CONTRACT FOR CONSTRUCTION

THIS CONTRACT FOR CONSTRUCTION ("Contract") is made and entered into as of the date stated on the City's signature page below (the "Effective Date") by and between the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado acting on behalf of its Department of Aviation (the "City"), and FLATIRON CONSTRUCTORS, INC., a Delaware corporation and authorized to do business in the State of Colorado ("Contractor") (collectively the "Parties").

WITNESSETH

WHEREAS, the City, for at least three (3) consecutive days, advertised that proposals would be received for furnishing all labor, tools, supplies, equipment, materials and everything necessary and required for the construction and installation of the work under Invitation for Bid No. 202158849, Taxiway EE Construction at Denver International Airport ("DEN"); and

WHEREAS, a bid in response to said advertisement have been received by the Chief Executive Officer of DEN (the "CEO"), who has recommended that a contract for the work be made and entered into with Contractor, which was the lowest, responsive, qualified bidder; and

WHEREAS, Contractor is qualified, willing, and able to perform the work in accordance with its proposal and the Contract Documents defined below;

NOW, THEREFORE, for and in consideration of the compensation to be paid by the City to Contractor and the other terms and conditions of this Contract, the Parties agree as follows:

ARTICLE I. CONTRACT DOCUMENTS

It is agreed by the Parties that the instruments, drawings, and documents described below and whether attached to and bound with this Contract or not (the "**Contract Documents**"), are incorporated into the Contract by this reference, and are as fully a part of this Contract as if they were set out here verbatim and in full:

- Contract
- Request for Proposals
- Notice to Proceed
- Form of Final Receipt
- Building Information Modeling ("**BIM**") if applicable
- Change Directives
- Change Orders
- Exhibit A Federal Appendices
- Exhibit B Equal Employment Opportunity Provisions
- Exhibit C Insurance Requirements
- Exhibit D Prevailing Wage Schedules
- Exhibit E Special Conditions

- Exhibit F Standard Specifications for Construction General Contract Conditions (2011 Edition) (the "Yellow Book") ("General Conditions") (Table of Contents attached as Exhibit F)
- Exhibit G Performance Bond
- Exhibit H Payment Bond
- Exhibit I Technical Specifications
- Exhibit J Contract Drawings
- Exhibit K Invitation for Bids and Contractor's Response to Invitation for Bids

In the event of an irreconcilable conflict between a provision of Article I through XXXI of this Contract document and any other provisions of the Contract Documents such that it is impossible to give effect to both, the order of precedence to determine which document shall control to resolve such conflict is as follows, in descending order:

- 1. Exhibit A Federal Appendices
- 2. Contract
- 3. Change Directives
- 4. Change Orders
- 5. Exhibit B Equal Employment Opportunity Provisions
- 6. Exhibit E Special Conditions
- 7. Exhibit F Standard Specifications for Construction General Contract Conditions (2011 Edition) (the "Yellow Book") ("General Conditions") (Table of Contents attached as Exhibit F)
- 8. Exhibit C Insurance Requirements
- 9. Exhibit D Prevailing Wage Schedules
- 10. Exhibit I Technical Specifications
- 11. Exhibit J Contract Drawings
- 12. Exhibit K Invitation for Bids and Contractor's Response to Invitation for Bids
- 13. Exhibit G Performance Bond
- 14. Exhibit H Payment Bond
- 15. Notice to Proceed
- 16. Form of Final Receipt
- 17. Building Information Modeling ("BIM") if applicable

The remaining order of precedence is established in General Conditions Title 4.

ARTICLE II. SCOPE OF WORK

Contractor shall furnish all labor and tools, supplies, equipment, superintendence, materials, and everything necessary for and required to do, perform, and complete all of the work described, drawn, set forth, shown, and included in the Contract Documents (the "**Work**").

ARTICLE III. TERM OF CONTRACT

The Senior Vice President of Aviation – Airport Infrastructure Management (the "SVP-AIM") will issue a written notice to proceed to Contractor (the "Notice to Proceed"), and Contractor shall begin performing the Work required under this Contract within ten (10) days of

such Notice to Proceed (the "**Commencement Date**"). Contractor shall fully complete the Work in its entirety within 607 consecutive calendar days from the date of the Notice to Proceed ("**Contract Time**"). Contractor is not authorized to commence work prior to its receipt of the Notice to Proceed.

ARTICLE IV. TERMS OF PAYMENT

The City agrees to pay Contractor for the performance and completion of all of the Work as required by the Scope of Work and the Contract Documents, and Contractor agrees to accept as its full and only compensation therefor, a total amount of Forty-Two Million, Four Hundred and Five Thousand, Six Hundred and Forty-Three Dollars and Ninety Cents (\$42,405,643.90) (the "Maximum Contract Amount"). In no event will the City's liability exceed the Maximum Contract Amount, as adjusted by duly authorized Change Orders in accordance with this Contract. The Parties specifically agree that any performance by Contractor hereunder shall not subject the City to any cost, charge, or fee not specified above.

ARTICLE V. VERIFIED STATEMENT OF CLAIMS

Colorado Revised Statutes § 38-26-107 ("C.R.S.") requires that, in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to Contractor sufficient funds to insure the payment of any such claims. Should the City be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, Contractor agrees to pay to the City its costs and a reasonable attorney's fee incurred in any such lawsuit. Because the City Attorney Staff does not bill the City for legal services on an hourly basis, Contractor agrees a reasonable fee shall be computed at the rate of two hundred dollars and no cents (\$200.00) per hour of City Attorney time.

ARTICLE VI. DISPUTES

All disputes arising under or related to this Contract shall be resolved by administrative hearing under the procedures described in *Exhibit F*, as modified by *Exhibit E*, if any, and the Denver Revised Municipal Code Section 5-17 ("**D.R.M.C.**") and all related rules and procedures. The determination resulting from said administrative hearing shall be final, subject only to Contractor's right to appeal the determination under Colorado Rule of Civil Procedure, Rule 106.

ARTICLE VII. DEFENSE AND INDEMNIFICATION

A. To the fullest extent permitted by law, Contractor hereby agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Contract that are due to the negligence or fault of the Contractor or the Contractor's agents, representatives, subcontractors, or suppliers ("**Claims**"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

B. Contractor's duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Contractor is

not named as a Defendant.

C. Contractor will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

D. Insurance coverage requirements specified in this Contract shall in no way lessen or limit the liability of the Contractor under the terms of this indemnification obligation. The Contractor shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

E. This defense and indemnification obligation shall survive the expiration or termination of this Contract.

ARTICLE VIII. WAIVER OF C.R.S. § 13-20-801, et seq.

Notwithstanding any other provision of this Contract, Contractor specifically waives all of the provisions of C.R.S. §§ 13-20-801 *et seq*. as they may relate to Contractor's performance under this Contract.

ARTICLE IX. LIQUIDATED DAMAGES

If Contractor fails to achieve Substantial Completion of the Work within the Contract Time or fails to substantially complete the Work described in the Scope of Work within the time set forth in the Special Conditions, the City will suffer substantial damages, which damages would be difficult to accurately determine. The Parties hereto have considered the possible elements of damages and have agreed that the amount of liquidated damages for Contractor's failure to substantially complete the work within the Contract Time or to substantially complete the work described in any Milestone Areas shall be as provided in the Special Conditions. If Contractor shall fail to pay such liquidated damages promptly upon demand therefor, the Surety on its Performance Bond and Payment Bond shall pay such damages. Also, the City may withhold all, or any part of, such liquidated damages from any payment due to Contractor. Additional provisions relating to liquidated damages are set forth in the Construction Contract General Conditions and Special Conditions.

ARTICLE X. INSURANCE REQUIREMENTS

A. Contractor shall obtain and keep in force all of the minimum insurance coverage forms and amounts set forth in *Exhibit C* ("Insurance Requirements") during the entire term of this Contract, including any extensions of the Contract or other extended period stipulations stated in *Exhibit C*. All certificates of insurance and any required endorsements must be received and approved by DEN Risk Management before any airport access or work commences.

B. Unless specifically excepted in writing by DEN Risk Management, if Contractor shall be

using subcontractors to provide any part of the services under this Contract, Contractor shall do one of the following:

- 1. Include all subcontractors performing services hereunder as insureds under its required insurance and specifically list on all submitted certificates of insurance required under *Exhibit C*; or
- 2. Ensure that each subcontractor provides its own insurance coverage in accordance with the requirements set forth in this Contract.

C. The City in no way warrants or represents the minimum limits contained herein are sufficient to protect Contractor from liabilities arising out of the performance of the terms and conditions of this Contract by Contractor, its agents, representatives, employees, or subcontractors. Contractor shall assess its own risks and maintain higher limits and/or broader coverage as it deems appropriate and/or prudent. Contractor is not relieved of any liability or other obligations assumed or undertaken pursuant to this Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration, or types.

D. In no event shall the City be liable for any of the following: (i) business interruption or other consequential damages sustained by Contractor; (ii) damage, theft, or destruction of Contractor's inventory, or property of any kind; or (iii) damage, theft, or destruction of an automobile, whether or not insured.

E. The Parties understand and agree that the City, its elected and appointed officials, employees, agents and volunteers are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations and any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101, *et seq.*, or otherwise available to the City, its elected and appointed officials, employees, agents and volunteers.

ARTICLE XI. CONTRACT BINDING

It is agreed that this Contract shall be binding on and inure to the benefit of the Parties hereto, their heirs, executors, administrators, assigns, and successors.

ARTICLE XII. SEVERABILITY

If any part, portion, or provision of this Contract shall be found or declared null, void, or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having authority thereover, only such part, portion, or provision shall be affected thereby and all other parts, portions, and provisions of this Contract shall remain in full force and effect.

ARTICLE XIII. ASSIGNMENT

Contractor shall not assign, pledge or transfer its duties, obligations, and rights under this Contract, in whole or in part, without first obtaining the written consent of the CEO or their authorized representative. Any attempt by Contractor to assign or transfer its rights hereunder without such prior written consent shall, at the option of the CEO or their authorized representative, automatically terminate this Contract and all rights of Contractor hereunder.

ARTICLE XIV. APPROPRIATIONS

Payment will be in accordance with the provisions of the Contract Documents, including Title 9 of the General Conditions, and will be made solely and exclusively from funds appropriated or otherwise lawfully made available for the purposes of this Contract from the City and County of Denver Airport System Funds. The City has no obligation to make payments from any other fund or source or to make additional appropriations or allocations to such fund to satisfy such costs or other obligations.

ARTICLE XV. APPROVALS

In the event this Contract calls for the payment by the City of Five Million Dollars and no cents (\$5,000,000.00) or more, approval by the Denver City Council, acting by Resolution in accordance with Section 3.2.6 of the Charter of the City and County of Denver, is and shall be an express condition precedent to the lawful and binding execution and performance of this Contract.

ARTICLE XVI. JOINT VENTURE

If Contractor is a Joint Venture, the partners to the Joint Venture shall be jointly and severally liable to the City for the performance of all duties and obligations of Contractor which are set forth in the Contract.

ARTICLE XVII. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this Contract, Contractor agrees not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender variance, marital status, or physical or mental disability; and Contractor further agrees to insert the foregoing provision in all subcontracts hereunder.

ARTICLE XVIII. COORDINATION OF SERVICES

Contractor agrees to perform its work under this Contract in accordance with the operational requirements of DEN, and all work and movement of personnel or equipment on areas included within the DEN site shall be subject to the regulations and restrictions established by the City or its authorized agents.

ARTICLE XIX. COMPLIANCE WITH ALL LAWS AND REGULATIONS

A. Contractor and its subcontractor(s) shall perform all work under this Contract in compliance with all existing and future applicable laws, rules, regulations, and codes of the United States and the State of Colorado and with the City Charter, ordinances, Executive Orders, and rules and regulations of the City.

B. Contractor shall perform all work in compliance with Executive Order 123 regarding

Sustainability as may be directed by the City, including the requirement that all new City buildings and major renovations will be certified to the applicable LEED Gold Certification, with the goal of achieving LEED Platinum where economically feasible. Contractor also shall comply with all applicable DEN design and construction standards, including the DEN Design Standards Manuals, which are incorporated herein by reference. Current versions can be found at:

https://business.flydenver.com/bizops/bizRequirements.asp.

ARTICLE XX. PREVAILING WAGE REQUIREMENTS

A. In addition to the Davis-Bacon Requirements contained in Exhibit A, Contractor shall comply with, and agrees to be bound by, all requirements, conditions and determinations of the City regarding the Payment of Prevailing Wages Ordinance, D.R.M.C. §§20-76 through 20-79, including, but not limited to, the requirement that every covered worker working on a City-owned or leased building or on City-owned land shall be paid no less than the prevailing wages and fringe benefits in effect on the date the bid or request for proposal was advertised. In the event a request for bids, or a request for proposal, was not advertised, Contractor shall pay every covered worker no less than the prevailing wages and fringe benefits in effect on the date funds for the Contract were encumbered.

Date bid or proposal issuance was advertised: July 1, 2021

B. Prevailing wage and fringe rates will adjust on the yearly anniversary of the actual date of bid or proposal issuance, if applicable, or the date of the written encumbrance if no bid/proposal issuance date is applicable. Unless expressly provided for in this Contract, Contractor will receive no additional compensation for increases in prevailing wages or fringe rates.

C. Contractor shall provide the Auditor of the City and County of Denver with a list of all subcontractors providing any services under the Contract.

D. Contractor shall provide the Auditor with electronically-certified payroll records for all covered workers employed under the Contract in a manner specified by the Auditor.

E. Contractor shall prominently post at the work site the current prevailing wage and fringe rates. The posting must inform workers that any complaints regarding the payment of prevailing wages or fringe benefits may be submitted to the Denver Auditor by calling 720-913-5000 or emailing auditor@denvergov.org.

F. If Contractor fails to pay workers as required by the Prevailing Wage Ordinance, Contractor will not be paid until documentation of payment satisfactory to the Auditor has been provided. The Auditor may enforce the Prevailing Wage Ordinance in a manner provided by law, including the Prevailing Wage Ordinance. The City also may, by written notice, suspend or terminate work if Contractor fails to pay required wages and fringe rates.

ARTICLE XXI. CITY PROMPT PAYMENT

A. Unless otherwise provided in this Contract, the City will make monthly progress payments to the Contractor for all services performed under this Contract based upon the Contractor's

monthly invoices and in compliance with the General Conditions, as they may be modified in this Contract. The City's Prompt Payment Ordinance, D.R.M.C. §§ 20-107 to 20-118, applies to invoicing and payment under this Contract.

B. Final Payment to the Contractor shall not be made until after the Project is accepted, and all certificates of completion, record drawings and reproducible copies are delivered to the City, and the Contract is otherwise fully performed by the Contractor. In addition to retention, the City may, at the discretion of the Director, withhold reasonable amounts from billing and the entirety of the final payment until all such requirements are performed to the satisfaction of the Director.

C. Prompt Pay of MWBE Subcontractors. For contracts of one million dollars (\$1,000,000.00) and over to which D.R.M.C. § 28-72 applies, the Contractor is required to comply with the Prompt Payment provisions under D.R.M.C. § 28-72, with regard to payments by the Contractor to MWBE subcontractors. The Contractor shall make payment by no later than thirty-five (35) days from receipt by the Contractor of the subcontractor's invoice.

ARTICLE XXII. OWNERSHIP AND DELIVERABLES

Upon payment to Contractor, all records, data, deliverables, and any other work product prepared by Contractor or any custom development work performed by Contractor for the purpose of performing this Contract on or before the day of payment for such work shall become the sole property of the City. Upon request by the City, or based on any schedule agreed to by Contractor and the City, Contractor shall provide the City with copies of the data/files that have been uploaded to any database maintained by or on behalf of Contractor or otherwise saved or maintained by Contractor as part of the services provided to the City under this Contract. All such data/files shall be provided to the City electronically in a format agreed to by the Parties. Contractor also agrees to allow the City to review any of the procedures Contractor uses in performing any work or other obligations under this Contract, and to make available for inspection any and all notes, documents, materials, and devices used in the preparation for or performance of any of the scope of work, for up to six (6) years after termination of this Contract. Upon written request from the City, Contractor shall deliver any information requested pursuant to this Article within ten (10) business days in the event a schedule or otherwise agreed-upon timeframe does not exist.

ARTICLE XXIII. COLORADO OPEN RECORDS ACT

A. Contractor acknowledges that the City is subject to the provisions of the Colorado Open Records Act ("**CORA**"), C.R.S. §§ 24-72-201 *et seq.*, and Contractor agrees that it will fully cooperate with the City in the event of a request or lawsuit arising under such act for the disclosure of any materials or information which Contractor asserts is confidential or otherwise exempt from disclosure. Any other provision of this Contract notwithstanding, all materials, records, and information provided by Contractor to the City shall be considered confidential by the City only to the extent provided in CORA, and Contractor agrees that any disclosure of information by the City consistent with the provisions of CORA shall result in no liability of the City.

B. In the event of a request to the City for disclosure of such information, time and circumstances permitting, the City will make a good faith effort to advise Contractor of such request in order to give Contractor the opportunity to object to the disclosure of any material

Contractor may consider confidential, proprietary, or otherwise exempt from disclosure. In the event Contractor objects to disclosure, the City, in its sole and absolute discretion, may file an application to the Denver District Court for a determination of whether disclosure is required or exempted. In the event a lawsuit to compel disclosure is filed, the City may tender all such material to the court for judicial determination of the issue of disclosure. In both situations, Contractor agrees it will either waive any claim of privilege or confidentiality or intervene in such legal process to protect materials Contractor does not wish disclosed. Contractor agrees to defend, indemnify, and hold harmless the City, its officers, agents, and employees from any claim, damages, expense, loss, or costs arising out of Contractor's objection to disclosure, including prompt reimbursement to the City of all reasonable attorney's fees, costs, and damages the City may incur directly or may be ordered to pay by such court, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V.

ARTICLE XXIV. EXAMINATION OF RECORDS AND AUDITS

A. Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access, and the right to examine, copy and retain copies, at City's election in paper or electronic form, any pertinent books, documents, papers and records related to Contractor's performance pursuant to this Contract, provision of any goods or services to the City, and any other transactions related to this Contract. Contractor shall cooperate with City representatives and City representatives shall be granted access to the foregoing documents and information during reasonable business hours and until the latter of six (6) years after the final payment under the Contract or expiration of the applicable statute of limitations. When conducting an audit of this Contract, the City Auditor shall be subject to government auditing standards issued by the United States Government Accountability Office by the Comptroller General of the United States, including with respect to disclosure of information acquired during the course of an audit. No examination of records and audits pursuant to this paragraph shall require Contractor to make disclosures in violation of state or federal privacy laws. Contractor shall at all times comply with D.R.M.C. 20-276.

B. Additionally, Contractor agrees until the expiration of six (6) years after the final payment under this Contract, any duly authorized representative of the City, including the CEO or their representative, shall have the right to examine any pertinent books, documents, papers and records of Contractor related to Contractor's performance of this Contract, including communications or correspondence related to Contractor's performance, without regard to whether the work was paid for in whole or in part with federal funds or was otherwise related to a federal grant program.

C. In the event the City receives federal funds to be used toward the services performed under this Contract, the Federal Aviation Administration ("**FAA**"), the Comptroller General of the United States and any other duly authorized representatives shall have access to any books, documents, papers and records of Contractor which are directly pertinent to a specific grant program for the purpose of making audit, examination, excerpts and transcriptions. Contractor further agrees that such records will contain information concerning the hours and specific services performed along with the applicable federal project number.

ARTICLE XXV. MINIMUM WAGE REQUIREMENTS

To the extent required by law, Contractor shall comply with and agrees to be bound by all requirements, conditions, and City determinations regarding the City's Minimum Wage Ordinance, D.R.M.C. §§ 20-82 through 20-84, including, but not limited to, the requirement that every covered worker shall be paid no less than the City Minimum Wage in accordance with the City's Minimum Wage Ordinance. By executing this Contract, Contractor expressly acknowledges that Contractor is aware of the requirements of the City's Minimum Wage Ordinance and that any failure by Contractor, or any other individual or entity acting subject to this Contract, to strictly comply with the foregoing D.R.M.C. Sections shall result in the penalties and other remedies authorized therein.

ARTICLE XXVI. COMPLIANCE WITH DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS

This Department of Transportation (DOT) 49 C.F.R. Part 26 ("Part 26") applies to this Project and will be incorporated into any contract entered into by the City and contained in the City and County of Denver Bid Documents. It is the policy of DOT and the City to ensure non-discrimination in the award and administration of DOT-assisted contracts financed in whole or in part with Federal funds. Consequently, the Bidders must fully comply with the DBE requirements of Part 26 in bidding and performing hereunder.

Part 26 provides for the adoption of a good faith goals program, to be administered by the Division of Small Business Opportunity (DSBO). As such, each bidder must comply with the terms and conditions of the Part 26 in making its bid and, if awarded the Contract, in performing all Work thereunder. A bidder's failure to comply with Part 26, any Rules or Regulations promulgated pursuant thereto, or any additional requirements contained herein may render a bid non-responsive and may constitute cause for rejection.

In accordance with the requirements of the Part 26, the Contractor is committed to, at a minimum, meet the participation goal of sixteen (16%) established for this Project utilizing properly certified DBE subcontractors and suppliers.

ARTICLE XXVII. SENSITIVE SECURITY INFORMATION

Contractor acknowledges that, in the course of performing its work under this Contract, Contractor may be given access to Sensitive Security Information ("SSI"), as material is described in the Code of Federal Regulations, 49 C.F.R. Part 1520. Contractor specifically agrees to comply with all requirements of the applicable federal regulations, including but not limited to, 49 C.F.R. Parts 15 and 1520. Contractor understands any questions it may have regarding its obligations with respect to SSI must be referred to the DEN's Security Office.

ARTICLE XXVIII. DEN SECURITY

A. Contractor, its officers, authorized officials, employees, agents, subcontractors, and those under its control, shall comply with safety, operational, or security measures required of Contractor or the City by the FAA or TSA. If Contractor, its officers, authorized officials, employees, agents, subcontractors or those under its control, fail or refuse to comply with said measures and such non-

compliance results in a monetary penalty being assessed against the City, then, in addition to any other remedies available to the City, Contractor shall fully reimburse the City any fines or penalties levied against the City, and any attorney fees or related costs paid by the City as a result of any such violation. Contractor must pay this amount within fifteen (15) days from the date of the invoice or written notice. Any fines and fees assessed by the FAA or TSA against the City due to the actions of Contractor and/or its agents will be deducted directly from the invoice for that billing period.

B. Contractor is responsible for compliance with Airport Security regulations and 49 C.F.R. Parts 1542 (Airport Security) and 14 C.R.F. Parts 139 (Airport Certification and Operations). Any and all violations pertaining to Parts 1542 and 139 resulting in a fine will be passed on to and borne by Contractor. The fee/fine will be deducted from the invoice at time of billing.

ARTICLE XXIX. FEDERAL RIGHTS

A. This Contract is subject and subordinate to the terms, reservations, restrictions and conditions of any existing or future contracts between the City and the United States, the execution of which has been or may be required as a condition precedent to the transfer of federal rights or property to the City for airport purposes, and the expenditure of federal funds for the extension, expansion or development of the Denver Municipal Airport System.

- 1. <u>General Civil Rights</u>: Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal Assistance. This provision binds Contractor and subtier contractors from the bid solicitation period through the completion of the Contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.
- 2. Federal Fair Labor Standards Act: This Contract incorporates by reference the provisions of 29 C.F.R. Part 201, the Federal Fair Labor Standards Act ("FLSA"), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers. Contractor agrees to incorporate by reference the provisions of FLSA in all contracts and subcontracts resulting from this Contract. Contractor has full responsibility to monitor compliance to the referenced regulation. Contractor must address any claims or disputes arising from this requirement directly with the U.S. Department of Labor Wage and Hour Division.
- 3. Occupational Safety and Health Act: This Contract incorporates by reference the requirements of 29 C.F.R. Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. Contractor retains full responsibility to monitor its compliance and any subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (29 C.F.R. Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor Occupational Safety and

Health Administration.

4. Contractor covenants it will include the provisions of this section in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Federal Acts, Regulations and directives issued pursuant thereto. Contractor covenants it will take action with respect to any subcontract or procurement as the City or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, Contractor may request the City to enter into any litigation to protect the interests of the City. In addition, Contractor may request the United States to enter into the litigation to protect the interests of the United States.

ARTICLE XXX. CITY EXECUTION OF CONTRACT

This Contract is expressly subject to, and shall become effective upon, the execution of all signatories of the City and, if required, the approval of Denver City Council. This Contract may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same.

ARTICLE XXXI. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS

The Contract, and any other documents requiring a signature hereunder, may be signed electronically by the City and/or Contractor in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Contract solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Contract in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

[SIGNATURE PAGES FOLLOW]

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- 6. Exhibit E Special Conditions
- 7. Exhibit F Standard Specifications for Construction General Contract Conditions (2011 Edition) (the "Yellow Book") ("General Conditions") (Table of Contents attached as Exhibit F)
- 8. Exhibit C Insurance Requirements
- 9. Exhibit D Prevailing Wage Schedules
- 10. Exhibit I Technical Specifications
- 11. Exhibit J Contract Drawings
- 12. Exhibit K Invitation for Bids and Contractor's Response to Invitation for Bids
- 13. Exhibit G Performance Bond
- 14. Exhibit H Payment Bond
- 15. Notice to Proceed
- 16. Form of Final Receipt
- 17. Building Information Modeling ("BIM") if applicable

The remaining order of precedence is established in General Conditions Title 4.

ARTICLE II. SCOPE OF WORK

Contractor shall furnish all labor and tools, supplies, equipment, superintendence, materials, and everything necessary for and required to do, perform, and complete all of the work described, drawn, set forth, shown, and included in the Contract Documents (the "**Work**").

ARTICLE III. TERM OF CONTRACT

The Senior Vice President of Aviation – Airport Infrastructure Management (the "SVP-AIM") will issue a written notice to proceed to Contractor (the "Notice to Proceed"), and Contractor shall begin performing the Work required under this Contract within ten (10) days of

such Notice to Proceed (the "**Commencement Date**"). Contractor shall fully complete the Work in its entirety within 720 consecutive calendar days from the date of the Notice to Proceed ("**Contract Time**"). Contractor is not authorized to commence work prior to its receipt of the Notice to Proceed.

ARTICLE IV. TERMS OF PAYMENT

The City agrees to pay Contractor for the performance and completion of all of the Work as required by the Scope of Work and the Contract Documents, and Contractor agrees to accept as its full and only compensation therefor, a total amount of Forty-Two Million, Four Hundred and Five Thousand, Six Hundred and Forty-Three Dollars and Ninety Cents (\$42,405,643.90) (the "Maximum Contract Amount"). In no event will the City's liability exceed the Maximum Contract Amount, as adjusted by duly authorized Change Orders in accordance with this Contract. The Parties specifically agree that any performance by Contractor hereunder shall not subject the City to any cost, charge, or fee not specified above.

ARTICLE V. VERIFIED STATEMENT OF CLAIMS

Colorado Revised Statutes § 38-26-107 ("C.R.S.") requires that, in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to Contractor sufficient funds to insure the payment of any such claims. Should the City be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, Contractor agrees to pay to the City its costs and a reasonable attorney's fee incurred in any such lawsuit. Because the City Attorney Staff does not bill the City for legal services on an hourly basis, Contractor agrees a reasonable fee shall be computed at the rate of two hundred dollars and no cents (\$200.00) per hour of City Attorney time.

ARTICLE VI. DISPUTES

All disputes arising under or related to this Contract shall be resolved by administrative hearing under the procedures described in *Exhibit F*, as modified by *Exhibit E*, if any, and the Denver Revised Municipal Code Section 5-17 ("**D.R.M.C.**") and all related rules and procedures. The determination resulting from said administrative hearing shall be final, subject only to Contractor's right to appeal the determination under Colorado Rule of Civil Procedure, Rule 106.

ARTICLE VII. DEFENSE AND INDEMNIFICATION

A. To the fullest extent permitted by law, Contractor hereby agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Contract that are due to the negligence or fault of the Contractor or the Contractor's agents, representatives, subcontractors, or suppliers ("**Claims**"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

B. Contractor's duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Contractor is

not named as a Defendant.

C. Contractor will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

D. Insurance coverage requirements specified in this Contract shall in no way lessen or limit the liability of the Contractor under the terms of this indemnification obligation. The Contractor shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

E. This defense and indemnification obligation shall survive the expiration or termination of this Contract.

ARTICLE VIII. WAIVER OF C.R.S. § 13-20-801, et seq.

Notwithstanding any other provision of this Contract, Contractor specifically waives all of the provisions of C.R.S. §§ 13-20-801 *et seq*. as they may relate to Contractor's performance under this Contract.

ARTICLE IX. LIQUIDATED DAMAGES

If Contractor fails to achieve Substantial Completion of the Work within the Contract Time or fails to substantially complete the Work described in the Scope of Work within the time set forth in the Special Conditions, the City will suffer substantial damages, which damages would be difficult to accurately determine. The Parties hereto have considered the possible elements of damages and have agreed that the amount of liquidated damages for Contractor's failure to substantially complete the work within the Contract Time or to substantially complete the work described in any Milestone Areas shall be as provided in the Special Conditions. If Contractor shall fail to pay such liquidated damages promptly upon demand therefor, the Surety on its Performance Bond and Payment Bond shall pay such damages. Also, the City may withhold all, or any part of, such liquidated damages from any payment due to Contractor. Additional provisions relating to liquidated damages are set forth in the Construction Contract General Conditions and Special Conditions.

ARTICLE X. INSURANCE REQUIREMENTS

A. Contractor shall obtain and keep in force all of the minimum insurance coverage forms and amounts set forth in *Exhibit C* ("Insurance Requirements") during the entire term of this Contract, including any extensions of the Contract or other extended period stipulations stated in *Exhibit C*. All certificates of insurance and any required endorsements must be received and approved by DEN Risk Management before any airport access or work commences.

B. Unless specifically excepted in writing by DEN Risk Management, if Contractor shall be

using subcontractors to provide any part of the services under this Contract, Contractor shall do one of the following:

- 1. Include all subcontractors performing services hereunder as insureds under its required insurance and specifically list on all submitted certificates of insurance required under *Exhibit C*; or
- 2. Ensure that each subcontractor provides its own insurance coverage in accordance with the requirements set forth in this Contract.

C. The City in no way warrants or represents the minimum limits contained herein are sufficient to protect Contractor from liabilities arising out of the performance of the terms and conditions of this Contract by Contractor, its agents, representatives, employees, or subcontractors. Contractor shall assess its own risks and maintain higher limits and/or broader coverage as it deems appropriate and/or prudent. Contractor is not relieved of any liability or other obligations assumed or undertaken pursuant to this Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration, or types.

D. In no event shall the City be liable for any of the following: (i) business interruption or other consequential damages sustained by Contractor; (ii) damage, theft, or destruction of Contractor's inventory, or property of any kind; or (iii) damage, theft, or destruction of an automobile, whether or not insured.

E. The Parties understand and agree that the City, its elected and appointed officials, employees, agents and volunteers are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations and any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101, *et seq.*, or otherwise available to the City, its elected and appointed officials, employees, agents and volunteers.

ARTICLE XI. CONTRACT BINDING

It is agreed that this Contract shall be binding on and inure to the benefit of the Parties hereto, their heirs, executors, administrators, assigns, and successors.

ARTICLE XII. SEVERABILITY

If any part, portion, or provision of this Contract shall be found or declared null, void, or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having authority thereover, only such part, portion, or provision shall be affected thereby and all other parts, portions, and provisions of this Contract shall remain in full force and effect.

ARTICLE XIII. ASSIGNMENT

Contractor shall not assign, pledge or transfer its duties, obligations, and rights under this Contract, in whole or in part, without first obtaining the written consent of the CEO or their authorized representative. Any attempt by Contractor to assign or transfer its rights hereunder without such prior written consent shall, at the option of the CEO or their authorized representative, automatically terminate this Contract and all rights of Contractor hereunder.

ARTICLE XIV. APPROPRIATIONS

Payment will be in accordance with the provisions of the Contract Documents, including Title 9 of the General Conditions, and will be made solely and exclusively from funds appropriated or otherwise lawfully made available for the purposes of this Contract from the City and County of Denver Airport System Funds. The City has no obligation to make payments from any other fund or source or to make additional appropriations or allocations to such fund to satisfy such costs or other obligations.

ARTICLE XV. APPROVALS

In the event this Contract calls for the payment by the City of Five Million Dollars and no cents (\$5,000,000.00) or more, approval by the Denver City Council, acting by Resolution in accordance with Section 3.2.6 of the Charter of the City and County of Denver, is and shall be an express condition precedent to the lawful and binding execution and performance of this Contract.

ARTICLE XVI. JOINT VENTURE

If Contractor is a Joint Venture, the partners to the Joint Venture shall be jointly and severally liable to the City for the performance of all duties and obligations of Contractor which are set forth in the Contract.

ARTICLE XVII. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this Contract, Contractor agrees not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender variance, marital status, or physical or mental disability; and Contractor further agrees to insert the foregoing provision in all subcontracts hereunder.

ARTICLE XVIII. COORDINATION OF SERVICES

Contractor agrees to perform its work under this Contract in accordance with the operational requirements of DEN, and all work and movement of personnel or equipment on areas included within the DEN site shall be subject to the regulations and restrictions established by the City or its authorized agents.

ARTICLE XIX. COMPLIANCE WITH ALL LAWS AND REGULATIONS

A. Contractor and its subcontractor(s) shall perform all work under this Contract in compliance with all existing and future applicable laws, rules, regulations, and codes of the United States and the State of Colorado and with the City Charter, ordinances, Executive Orders, and rules and regulations of the City.

B. Contractor shall perform all work in compliance with Executive Order 123 regarding

Sustainability as may be directed by the City, including the requirement that all new City buildings and major renovations will be certified to the applicable LEED Gold Certification, with the goal of achieving LEED Platinum where economically feasible. Contractor also shall comply with all applicable DEN design and construction standards, including the DEN Design Standards Manuals, which are incorporated herein by reference. Current versions can be found at:

https://business.flydenver.com/bizops/bizRequirements.asp.

ARTICLE XX. PREVAILING WAGE REQUIREMENTS

A. In addition to the Davis-Bacon Requirements contained in Exhibit A, Contractor shall comply with, and agrees to be bound by, all requirements, conditions and determinations of the City regarding the Payment of Prevailing Wages Ordinance, D.R.M.C. §§20-76 through 20-79, including, but not limited to, the requirement that every covered worker working on a City-owned or leased building or on City-owned land shall be paid no less than the prevailing wages and fringe benefits in effect on the date the bid or request for proposal was advertised. In the event a request for bids, or a request for proposal, was not advertised, Contractor shall pay every covered worker no less than the prevailing wages and fringe benefits in effect on the date funds for the Contract were encumbered.

Date bid or proposal issuance was advertised: July 1, 2021

B. Prevailing wage and fringe rates will adjust on the yearly anniversary of the actual date of bid or proposal issuance, if applicable, or the date of the written encumbrance if no bid/proposal issuance date is applicable. Unless expressly provided for in this Contract, Contractor will receive no additional compensation for increases in prevailing wages or fringe rates.

C. Contractor shall provide the Auditor of the City and County of Denver with a list of all subcontractors providing any services under the Contract.

D. Contractor shall provide the Auditor with electronically-certified payroll records for all covered workers employed under the Contract in a manner specified by the Auditor.

E. Contractor shall prominently post at the work site the current prevailing wage and fringe rates. The posting must inform workers that any complaints regarding the payment of prevailing wages or fringe benefits may be submitted to the Denver Auditor by calling 720-913-5000 or emailing auditor@denvergov.org.

F. If Contractor fails to pay workers as required by the Prevailing Wage Ordinance, Contractor will not be paid until documentation of payment satisfactory to the Auditor has been provided. The Auditor may enforce the Prevailing Wage Ordinance in a manner provided by law, including the Prevailing Wage Ordinance. The City also may, by written notice, suspend or terminate work if Contractor fails to pay required wages and fringe rates.

ARTICLE XXI. CITY PROMPT PAYMENT

A. Unless otherwise provided in this Contract, the City will make monthly progress payments to the Contractor for all services performed under this Contract based upon the Contractor's

monthly invoices and in compliance with the General Conditions, as they may be modified in this Contract. The City's Prompt Payment Ordinance, D.R.M.C. §§ 20-107 to 20-118, applies to invoicing and payment under this Contract.

B. Final Payment to the Contractor shall not be made until after the Project is accepted, and all certificates of completion, record drawings and reproducible copies are delivered to the City, and the Contract is otherwise fully performed by the Contractor. In addition to retention, the City may, at the discretion of the Director, withhold reasonable amounts from billing and the entirety of the final payment until all such requirements are performed to the satisfaction of the Director.

C. Prompt Pay of MWBE Subcontractors. For contracts of one million dollars (\$1,000,000.00) and over to which D.R.M.C. § 28-72 applies, the Contractor is required to comply with the Prompt Payment provisions under D.R.M.C. § 28-72, with regard to payments by the Contractor to MWBE subcontractors. The Contractor shall make payment by no later than thirty-five (35) days from receipt by the Contractor of the subcontractor's invoice.

ARTICLE XXII. OWNERSHIP AND DELIVERABLES

Upon payment to Contractor, all records, data, deliverables, and any other work product prepared by Contractor or any custom development work performed by Contractor for the purpose of performing this Contract on or before the day of payment for such work shall become the sole property of the City. Upon request by the City, or based on any schedule agreed to by Contractor and the City, Contractor shall provide the City with copies of the data/files that have been uploaded to any database maintained by or on behalf of Contractor or otherwise saved or maintained by Contractor as part of the services provided to the City under this Contract. All such data/files shall be provided to the City electronically in a format agreed to by the Parties. Contractor also agrees to allow the City to review any of the procedures Contractor uses in performing any work or other obligations under this Contract, and to make available for inspection any and all notes, documents, materials, and devices used in the preparation for or performance of any of the scope of work, for up to six (6) years after termination of this Contract. Upon written request from the City, Contractor shall deliver any information requested pursuant to this Article within ten (10) business days in the event a schedule or otherwise agreed-upon timeframe does not exist.

ARTICLE XXIII. COLORADO OPEN RECORDS ACT

A. Contractor acknowledges that the City is subject to the provisions of the Colorado Open Records Act ("**CORA**"), C.R.S. §§ 24-72-201 *et seq.*, and Contractor agrees that it will fully cooperate with the City in the event of a request or lawsuit arising under such act for the disclosure of any materials or information which Contractor asserts is confidential or otherwise exempt from disclosure. Any other provision of this Contract notwithstanding, all materials, records, and information provided by Contractor to the City shall be considered confidential by the City only to the extent provided in CORA, and Contractor agrees that any disclosure of information by the City consistent with the provisions of CORA shall result in no liability of the City.

B. In the event of a request to the City for disclosure of such information, time and circumstances permitting, the City will make a good faith effort to advise Contractor of such request in order to give Contractor the opportunity to object to the disclosure of any material

Contractor may consider confidential, proprietary, or otherwise exempt from disclosure. In the event Contractor objects to disclosure, the City, in its sole and absolute discretion, may file an application to the Denver District Court for a determination of whether disclosure is required or exempted. In the event a lawsuit to compel disclosure is filed, the City may tender all such material to the court for judicial determination of the issue of disclosure. In both situations, Contractor agrees it will either waive any claim of privilege or confidentiality or intervene in such legal process to protect materials Contractor does not wish disclosed. Contractor agrees to defend, indemnify, and hold harmless the City, its officers, agents, and employees from any claim, damages, expense, loss, or costs arising out of Contractor's objection to disclosure, including prompt reimbursement to the City of all reasonable attorney's fees, costs, and damages the City may incur directly or may be ordered to pay by such court, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V.

ARTICLE XXIV. EXAMINATION OF RECORDS AND AUDITS

A. Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access, and the right to examine, copy and retain copies, at City's election in paper or electronic form, any pertinent books, documents, papers and records related to Contractor's performance pursuant to this Contract, provision of any goods or services to the City, and any other transactions related to this Contract. Contractor shall cooperate with City representatives and City representatives shall be granted access to the foregoing documents and information during reasonable business hours and until the latter of six (6) years after the final payment under the Contract or expiration of the applicable statute of limitations. When conducting an audit of this Contract, the City Auditor shall be subject to government auditing standards issued by the United States Government Accountability Office by the Comptroller General of the United States, including with respect to disclosure of information acquired during the course of an audit. No examination of records and audits pursuant to this paragraph shall require Contractor to make disclosures in violation of state or federal privacy laws. Contractor shall at all times comply with D.R.M.C. 20-276.

B. Additionally, Contractor agrees until the expiration of six (6) years after the final payment under this Contract, any duly authorized representative of the City, including the CEO or their representative, shall have the right to examine any pertinent books, documents, papers and records of Contractor related to Contractor's performance of this Contract, including communications or correspondence related to Contractor's performance, without regard to whether the work was paid for in whole or in part with federal funds or was otherwise related to a federal grant program.

C. In the event the City receives federal funds to be used toward the services performed under this Contract, the Federal Aviation Administration ("**FAA**"), the Comptroller General of the United States and any other duly authorized representatives shall have access to any books, documents, papers and records of Contractor which are directly pertinent to a specific grant program for the purpose of making audit, examination, excerpts and transcriptions. Contractor further agrees that such records will contain information concerning the hours and specific services performed along with the applicable federal project number.

ARTICLE XXV. MINIMUM WAGE REQUIREMENTS

To the extent required by law, Contractor shall comply with and agrees to be bound by all requirements, conditions, and City determinations regarding the City's Minimum Wage Ordinance, D.R.M.C. §§ 20-82 through 20-84, including, but not limited to, the requirement that every covered worker shall be paid no less than the City Minimum Wage in accordance with the City's Minimum Wage Ordinance. By executing this Contract, Contractor expressly acknowledges that Contractor is aware of the requirements of the City's Minimum Wage Ordinance and that any failure by Contractor, or any other individual or entity acting subject to this Contract, to strictly comply with the foregoing D.R.M.C. Sections shall result in the penalties and other remedies authorized therein.

ARTICLE XXVI. COMPLIANCE WITH DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS

This Department of Transportation (DOT) 49 C.F.R. Part 26 ("Part 26") applies to this Project and will be incorporated into any contract entered into by the City and contained in the City and County of Denver Bid Documents. It is the policy of DOT and the City to ensure non-discrimination in the award and administration of DOT-assisted contracts financed in whole or in part with Federal funds. Consequently, the Bidders must fully comply with the DBE requirements of Part 26 in bidding and performing hereunder.

Part 26 provides for the adoption of a good faith goals program, to be administered by the Division of Small Business Opportunity (DSBO). As such, each bidder must comply with the terms and conditions of the Part 26 in making its bid and, if awarded the Contract, in performing all Work thereunder. A bidder's failure to comply with Part 26, any Rules or Regulations promulgated pursuant thereto, or any additional requirements contained herein may render a bid non-responsive and may constitute cause for rejection.

In accordance with the requirements of the Part 26, the Contractor is committed to, at a minimum, meet the participation goal of sixteen (16%) established for this Project utilizing properly certified DBE subcontractors and suppliers.

ARTICLE XXVII. SENSITIVE SECURITY INFORMATION

Contractor acknowledges that, in the course of performing its work under this Contract, Contractor may be given access to Sensitive Security Information ("SSI"), as material is described in the Code of Federal Regulations, 49 C.F.R. Part 1520. Contractor specifically agrees to comply with all requirements of the applicable federal regulations, including but not limited to, 49 C.F.R. Parts 15 and 1520. Contractor understands any questions it may have regarding its obligations with respect to SSI must be referred to the DEN's Security Office.

ARTICLE XXVIII. DEN SECURITY

A. Contractor, its officers, authorized officials, employees, agents, subcontractors, and those under its control, shall comply with safety, operational, or security measures required of Contractor or the City by the FAA or TSA. If Contractor, its officers, authorized officials, employees, agents, subcontractors or those under its control, fail or refuse to comply with said measures and such non-

compliance results in a monetary penalty being assessed against the City, then, in addition to any other remedies available to the City, Contractor shall fully reimburse the City any fines or penalties levied against the City, and any attorney fees or related costs paid by the City as a result of any such violation. Contractor must pay this amount within fifteen (15) days from the date of the invoice or written notice. Any fines and fees assessed by the FAA or TSA against the City due to the actions of Contractor and/or its agents will be deducted directly from the invoice for that billing period.

B. Contractor is responsible for compliance with Airport Security regulations and 49 C.F.R. Parts 1542 (Airport Security) and 14 C.R.F. Parts 139 (Airport Certification and Operations). Any and all violations pertaining to Parts 1542 and 139 resulting in a fine will be passed on to and borne by Contractor. The fee/fine will be deducted from the invoice at time of billing.

ARTICLE XXIX. FEDERAL RIGHTS

A. This Contract is subject and subordinate to the terms, reservations, restrictions and conditions of any existing or future contracts between the City and the United States, the execution of which has been or may be required as a condition precedent to the transfer of federal rights or property to the City for airport purposes, and the expenditure of federal funds for the extension, expansion or development of the Denver Municipal Airport System.

- 1. <u>General Civil Rights</u>: Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal Assistance. This provision binds Contractor and subtier contractors from the bid solicitation period through the completion of the Contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.
- 2. Federal Fair Labor Standards Act: This Contract incorporates by reference the provisions of 29 C.F.R. Part 201, the Federal Fair Labor Standards Act ("FLSA"), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers. Contractor agrees to incorporate by reference the provisions of FLSA in all contracts and subcontracts resulting from this Contract. Contractor has full responsibility to monitor compliance to the referenced regulation. Contractor must address any claims or disputes arising from this requirement directly with the U.S. Department of Labor Wage and Hour Division.
- 3. Occupational Safety and Health Act: This Contract incorporates by reference the requirements of 29 C.F.R. Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. Contractor retains full responsibility to monitor its compliance and any subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (29 C.F.R. Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor Occupational Safety and

Health Administration.

4. Contractor covenants it will include the provisions of this section in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Federal Acts, Regulations and directives issued pursuant thereto. Contractor covenants it will take action with respect to any subcontract or procurement as the City or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, Contractor may request the City to enter into any litigation to protect the interests of the City. In addition, Contractor may request the United States to enter into the litigation to protect the interests of the United States.

ARTICLE XXX. CITY EXECUTION OF CONTRACT

This Contract is expressly subject to, and shall become effective upon, the execution of all signatories of the City and, if required, the approval of Denver City Council. This Contract may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same.

ARTICLE XXXI. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS

The Contract, and any other documents requiring a signature hereunder, may be signed electronically by the City and/or Contractor in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Contract solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Contract in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

[SIGNATURE PAGES FOLLOW]

Contract Control Number:	PLANE-202158849-00
Contractor Name:	FLATIRON CONSTRUCTORS, INC.

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of:

SEAL

CITY AND COUNTY OF DENVER:

REGISTERED AND COUNTERSIGNED:

ATTEST:

By:

APPROVED AS TO FORM:

Attorney for the City and County of Denver

By:

By:

By:

Contract Control Number: Contractor Name: PLANE-202158849-00 FLATIRON CONSTRUCTORS, INC.

DocuSigned by: Grant Johns By:

Grant Johns Name:

(please print)

Title: District Operations Manager

(please print)

ATTEST: [if required]

Name: Kevin McCormick
(please print)

Title: Central Division Finance Manager (please print)

EXHIBIT A

FEDERAL CONSTRUCTION CONTRACT PROVISIONS

A1 ACCESS TO RECORDS AND REPORTS

A1.3 ACCESS TO RECORDS AND REPORTS

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the Owner, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

A2 AFFIRMATIVE ACTION REQUIREMENT

A2.3 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION to ENSURE EQUAL EMPLOYMENT OPPORTUNITY

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables

Goals for minority participation for each trade: [sponsor must insert established goal]

Goals for female participation in each trade: 6.9%

These goals are applicable to all of the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a) and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good

Flatiron Constructors, Inc. Contract No. 202158849-00 faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this notice and in the contract resulting from this solicitation, the "covered area" is City and County of Denver, Colorado.

A3 BREACH OF CONTRACT TERMS

A3.3 BREACH OF CONTRACT TERMS

Any violation or breach of terms of this contract on the part of the [*Contractor* | *Consultant*] or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide Contractor written notice that describes the nature of the breach and corrective actions the Contractor must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the Contractor must correct the breach. Owner may proceed with termination of the contract if the Contractor fails to correct the breach by the deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

A4 BUY AMERICAN PREFERENCE

A4.3.1 BUY AMERICAN PREFERENCE

The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the Federal Aviation Administration has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must complete and submit the Buy America certification included herein with their bid or offer. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

A4.3.2 Certificate of Buy American Compliance – Total Facility

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark () or the letter "X".

Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States; or
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- To faithfully comply with providing U.S. domestic products.
- To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- d) To furnish U.S. domestic product for any waiver request that the FAA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the "facility". The required documentation for a Type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

A4.3.3 Certificate of Buy American Compliance – Manufactured Product

Certificate of Buy American Compliance for Manufactured Products

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark () or the letter "X".

Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States;
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- 1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing U.S. domestic product.
- 3. To furnish U.S. domestic product for any waiver request that the FAA rejects
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- 1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- 2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
- 3. To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of the item components and subcomponents produced in the United States is more that 60 percent of the cost of all components and subcomponents of the "item". The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as nondomestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date	Signature
Company Name	Title

A5 CIVIL RIGHTS – GENERAL

A5.3.1 GENERAL CIVIL RIGHTS PROVISIONS

The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

A6 CIVIL RIGHTS – TITLE VI ASSURANCE

A6.3.1 Title VI Solicitation Notice

The **(Name of Sponsor)**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, [select disadvantaged business enterprises or airport concession disadvantaged business enterprises] will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

A6.4.1 Title VI Clauses for Compliance with Nondiscrimination Requirements

Compliance with Nondiscrimination Requirements:

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor"), agrees as follows:

- 1. **Compliance with Regulations:** The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- 2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
- 3. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the contractor's obligations under this contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.
- 4. **Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
- 5. Sanctions for Noncompliance: In the event of a Contractor's noncompliance with the non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - a. Withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

A6.4.5 Title VI List of Pertinent Nondiscrimination Acts and Authorities

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 USC § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination in Federally-assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended (42 USC § 6101 *et seq.*) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 USC § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing

entities (42 USC §§ 12131 – 12189) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;

- The Federal Aviation Administration's Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC 1681 et seq).

A7 CLEAN AIR AND WATER POLLUTION CONTROL

A7.3 CLEAN AIR AND WATER POLLUTION CONTROL

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 USC § 740-7671q) and the Federal Water Pollution Control Act as amended (33 USC § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceeds \$150,000.

A8 CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS

A8.3 CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS

1. Overtime Requirements.

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages.

In the event of any violation of the clause set forth in paragraph (1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

3. Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration (FAA) or the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this clause.

4. Subcontractors.

The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

A9 COPELAND "ANTI-KICKBACK" ACT

A9.3 COPELAND "ANTI-KICKBACK" ACT

Contractor must comply with the requirements of the Copeland "Anti-Kickback" Act (18 USC 874 and 40 USC 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

A10 DAVIS-BACON REQUIREMENTS

A10.3 DAVIS-BACON REQUIREMENTS

1. Minimum Wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided* that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.

- (ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (1) The work to be performed by the classification requested is not performed by a classification in the wage determination;

- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (C) In the event the Contractor, the laborers, or mechanics to be employed in the classification, or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program: *Provided* that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- 2. Withholding.

The Federal Aviation Administration or the sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or

advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the Contractor, Sponsor, Applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

- 3. Payrolls and Basic Records.
 - Payrolls and basic records relating thereto shall be maintained by the Contractor during (i) the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b)(2)(B) of the Davis-Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records that show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and that show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
 - (ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, Sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at www.dol.gov/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker and shall provide them upon request to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit them to the applicant, sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration, the Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a

violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, Sponsor, or Owner).

- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - The payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR § 5.5 (a)(3)(i), and that such information is correct and complete;
 - (2) Each laborer and mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;
 - (4) Each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (ii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the sponsor, the Federal Aviation Administration, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, Sponsor, applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.
- 4. Apprentices and Trainees.
 - (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program,

who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination that provides for less than full fringe benefits for apprentices. Any

employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iii) Equal Employment Opportunity. The utilization of apprentices, trainees, and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- 5. Compliance with Copeland Act Requirements.

The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

6. Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5,

6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of Eligibility.

- By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001.

A11 DEBARMENT AND SUSPENSION

A11.3.1 CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

A11.3.2 CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

- 1. Checking the System for Award Management at website: <u>http://www.sam.gov</u>.
- 2. Collecting a certification statement similar to the Certification of Offerer /Bidder Regarding Debarment, above.
- 3. Inserting a clause or condition in the covered transaction with the lower tier contract.

If the Federal Aviation Administration later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

A12 DISADVANTAGED BUSINESS ENTERPRISE

A12.3.1 SOLICITATION LANGUAGE (SOLICITATIONS THAT INCLUDE A PROJECT GOAL)

Information Submitted as a matter of bidder responsiveness: The Owner's award of this contract is conditioned upon Bidder or Offeror satisfying the good faith effort requirements of 49 CFR §26.53.

As a condition of bid responsiveness, the Bidder or Offeror must submit the following information with its proposal on the forms provided herein:

- 1) The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
- 2) A description of the work that each DBE firm will perform;
- 3) The dollar amount of the participation of each DBE firm listed under (1)
- 4) Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- 5) If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in appendix A to 49 CFR part 26.

Information submitted as a matter of bidder responsibility:

The Owner's award of this contract is conditioned upon Bidder or Offeror satisfying the good faith effort requirements of 49 CFR §26.53.

The successful Bidder or Offeror must provide written confirmation of participation from each of the DBE firms the Bidder or Offeror lists in its commitment within five days after bid opening.

- 1) The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
- 2) A description of the work that each DBE firm will perform;
- 3) The dollar amount of the participation of each DBE firm listed under (1)
- 4) Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- 5) If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in appendix A to 49 CFR part 26.

A12.3.2 SOLICITATION LANGUAGE (RACE/GENDER NEUTRAL MEANS)

The requirements of 49 CFR part 26 apply to this contract. It is the policy of the [Insert Name of Owner] to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

A12.3.3 PRIME CONTRACTS (PROJECTS COVERED BY A DBE PROGRAM)

DISADVANTAGED BUSINESS ENTERPRISES

Contract Assurance (§ 26.13) -

The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of Department of Transportation-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Owner deems appropriate, which may include, but is not limited to:

- 1) Withholding monthly progress payments;
- 2) Assessing sanctions;
- 3) Liquidated damages; and/or
- 4) Disqualifying the Contractor from future bidding as non-responsible.

Prompt Payment (§26.29) -

The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than [specify number] days from the receipt of each payment the prime contractor receives from [Name of recipient]. The prime contractor agrees further to return retainage payments to each subcontractor within [specify the same number as above] days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the [Name of Recipient]. This clause applies to both DBE and non-DBE subcontractors.

A13 DISTRACTED DRIVING WHEN DRIVING

A13.3 TEXTING WHEN DRIVING

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving", (10/1/2009) and DOT Order 3902.10, "Text Messaging While Driving", (12/30/2009), the Federal Aviation Administration encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or subgrant. In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 that involve driving a motor vehicle in performance of work activities associated with the project.

A14 ENERGY CONSERVATION REQUIREMENTS

Flatiron Constructors, Inc. Contract No. 202158849-00

A14.3 ENERGY CONSERVATION REQUIREMENTS

Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 USC 6201*et seq*).

A16 EQUAL EMPLOYEMENT OPPORTUNITY (EEO)

A16.3.1 EQUAL OPPORTUNITY CLAUSE

During the performance of this contract, the Contractor agrees as follows:

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identify, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff, or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (3) The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided, however*, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

A16.3.2 STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS

- 1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;
 - d. "Minority" includes:
 - (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR part 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to

achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
- 5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the Contractor during the training period and the Contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a

union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the Contractor may have taken.

- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or female sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions, including specific review of these items, with onsite supervisory personnel such superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce. k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- 1. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the Contractor is a member and participant may be asserted as fulfilling any one or more of its obligations under 7a through 7p of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally), the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.
- 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

- 11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246. 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR part 60-4.8.
- 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

A17 FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers.

The [*Contractor* | *Consultant*] has full responsibility to monitor compliance to the referenced statute or regulation. The [*Contractor* | *Consultant*] must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

A18 LOBBYING AND INFLUENCING FEDERAL EMPLOYEES

A18.3 CERTIFICATION REGARDING LOBBYING

The Bidder or Offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

A19 PROHIBITION of SEGREGATED FACILITIES

A19.3 PROHIBITION OF SEGREGATED FACILITIES

- (a) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Employment Opportunity clause in this contract.
- (b) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Employment Opportunity clause of this contract.

A20 OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

A20.3 OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. The employer must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The employer retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). The employer must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

A21 PROCUREMENT OF RECOVERED MATERIALS

A21.3 PROCUREMENT OF RECOVERED MATERIALS

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- 1) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or
- 2) The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at www.epa.gov/smm/comprehensive-procurement-guidelines-construction-products.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

A22 RIGHT TO INVENTIONS

Flatiron Constructors, Inc. Contract No. 202158849-00

A22.3 RIGHTS TO INVENTIONS

Contracts or agreements that include the performance of experimental, developmental, or research work must provide for the rights of the Federal Government and the Owner in any resulting invention as established by 37 CFR part 401, Rights to Inventions Made by Non-profit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements. This contract incorporates by reference the patent and inventions rights as specified within 37 CFR §401.14. Contractor must include this requirement in all sub-tier contracts involving experimental, developmental, or research work.

A23 SEISMIC SAFETY

A23.3 PROFESSIONAL SERVICE AGREEMENTS FOR DESIGN

SEISMIC SAFETY

In the performance of design services, the Consultant agrees to furnish a building design and associated construction specification that conform to a building code standard that provides a level of seismic safety substantially equivalent to standards as established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their building code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety. At the conclusion of the design services, the Consultant agrees to furnish the Owner a "certification of compliance" that attests conformance of the building design and the construction specifications with the seismic standards of NEHRP or an equivalent building code.

A23.3.2 CONSTRUCTION CONTRACTS

SEISMIC SAFETY

The Contractor agrees to ensure that all work performed under this contract, including work performed by subcontractors, conforms to a building code standard that provides a level of seismic safety substantially equivalent to standards established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety.

A24 TAX DELINQUENCY AND FELONY CONVICTIONS

A24.3 CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark () in the space following the applicable response. The applicant agrees that, if

awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

The applicant represents that it is () is not () a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

The applicant represents that it is () is not () is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions-

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

A25 TERMINATION OF CONTRACT

A25.3.1 TERMINATION FOR CONVENIENCE (CONSTRUCTION & EQUIPMENT CONTRACTS)

The Owner may terminate this contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of Owner. Upon receipt of a written notice of termination, except as explicitly directed by the Owner, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

1. Contractor must immediately discontinue work as specified in the written notice.

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- 2. Terminate all subcontracts to the extent they relate to the work terminated under the notice.
- 3. Discontinue orders for materials and services except as directed by the written notice.
- 4. Deliver to the Owner all fabricated and partially fabricated parts, completed and partially completed work, supplies, equipment and materials acquired prior to termination of the work, and as directed in the written notice.
- 5. Complete performance of the work not terminated by the notice.
- 6. Take action as directed by the Owner to protect and preserve property and work related to this contract that Owner will take possession.

Owner agrees to pay Contractor for:

- 1. completed and acceptable work executed in accordance with the contract documents prior to the effective date of termination;
- 2. documented expenses sustained prior to the effective date of termination in performing work and furnishing labor, materials, or equipment as required by the contract documents in connection with uncompleted work;
- 3. reasonable and substantiated claims, costs, and damages incurred in settlement of terminated contracts with Subcontractors and Suppliers; and
- 4. reasonable and substantiated expenses to the Contractor directly attributable to Owner's termination action.

Owner will not pay Contractor for loss of anticipated profits or revenue or other economic loss arising out of or resulting from the Owner's termination action.

The rights and remedies this clause provides are in addition to any other rights and remedies provided by law or under this contract.

TERMINATION FOR CONVENIENCE (PROFESSIONAL SERVICES)

The Owner may, by written notice to the Consultant, terminate this Agreement for its convenience and without cause or default on the part of Consultant. Upon receipt of the notice of termination, except as explicitly directed by the Owner, the Contractor must immediately discontinue all services affected.

Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

A25.3.2 TERMINATION FOR DEFAULT

TERMINATION FOR DEFAULT (CONSTRUCTION)

Section 80-09 of FAA Advisory Circular 150/5370-10 establishes conditions, rights, and remedies associated with Owner termination of this contract due to default of the Contractor.

TERMINATION FOR DEFAULT (EQUIPMENT)

The Owner may, by written notice of default to the Contractor, terminate all or part of this Contract if the Contractor:

- 1. Fails to commence the Work under the Contract within the time specified in the Notice-to-Proceed;
- 2. Fails to make adequate progress as to endanger performance of this Contract in accordance with its terms;
- 3. Fails to make delivery of the equipment within the time specified in the Contract, including any Owner approved extensions;
- 4. Fails to comply with material provisions of the Contract;
- 5. Submits certifications made under the Contract and as part of their proposal that include false or fraudulent statements; or
- 6. Becomes insolvent or declares bankruptcy.

If one or more of the stated events occur, the Owner will give notice in writing to the Contractor and Surety of its intent to terminate the contract for cause. At the Owner's discretion, the notice may allow the Contractor and Surety an opportunity to cure the breach or default.

If within [10] days of the receipt of notice, the Contractor or Surety fails to remedy the breach or default to the satisfaction of the Owner, the Owner has authority to acquire equipment by other procurement action. The Contractor will be liable to the Owner for any excess costs the Owner incurs for acquiring such similar equipment.

Payment for completed equipment delivered to and accepted by the Owner shall be at the Contract price. The Owner may withhold from amounts otherwise due the Contractor for such completed equipment, such sum as the Owner determines to be necessary to protect the Owner against loss because of Contractor default.

Owner will not terminate the Contractor's right to proceed with the Work under this clause if the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such acceptable causes include: acts of God, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, and severe weather events that substantially exceed normal conditions for the location.

If, after termination of the Contractor's right to proceed, the Owner determines that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the Owner issued the termination for the convenience the Owner.

The rights and remedies of the Owner in this clause are in addition to any other rights and remedies provided by law or under this contract.

TERMINATION FOR DEFAULT (PROFESSIONAL SERVICES)

Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

The terminating party must provide the breaching party [7] days advance written notice of its intent to terminate the Agreement. The notice must specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this agreement.

- a) **Termination by Owner**: The Owner may terminate this Agreement in whole or in part, for the failure of the Consultant to:
 - 1. Perform the services within the time specified in this contract or by Owner approved extension;
 - 2. Make adequate progress so as to endanger satisfactory performance of the Project; or
 - 3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Consultant must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, the Owner determines the Consultant was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the Owner issued the termination for the convenience of the Owner.

b) **Termination by Consultant**: The Consultant may terminate this Agreement in whole or in part, if the Owner:

- 1. Defaults on its obligations under this Agreement;
- 2. Fails to make payment to the Consultant in accordance with the terms of this Agreement;
- 3. Suspends the Project for more than [180] days due to reasons beyond the control of the Consultant.

Upon receipt of a notice of termination from the Consultant, Owner agrees to cooperate with Consultant for the purpose of terminating the agreement or portion thereof, by mutual consent. If Owner and Consultant cannot reach mutual agreement on the termination settlement, the Consultant may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the Owner's breach of the contract.

In the event of termination due to Owner breach, the Engineer is entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Consultant through the effective date of termination action. Owner agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

A26 TRADE RESTRICTION CERTIFICATION

A26.3 TRADE RESTRICTION CERTIFICATION

By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror –

- 1) is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (USTR);
- 2) has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and
- 3) has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18 USC Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- 1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR or
- 2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such USTR list or
- 3) who incorporates in the public works project any product of a foreign country on such USTR list.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration (FAA) may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

A27 VETERAN'S PREFERENCE

A27.3 VETERAN'S PREFERENCE

In the employment of labor (excluding executive, administrative, and supervisory positions), the Contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 USC 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

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CITY AND COUNTY OF DENVER RULES AND REGULATIONS AND BID CONDITIONS OF THE MANAGER OF PUBLIC WORKS

PERTAINING TO EQUAL EMPLOYMENT OPPORTUNITY IN THE CITY AND COUNTY OF DENVER

APPROVED FOR LEGALITY:

APPROVED AND ADOPTED:

/s/

Attorney for the City and County of Denver

/s/____ Manager of Public Works

Adopted and Published Pursuant to Article 111, Division 2 of Chapter 28 the Revised Municipal Code of the City and County of Denver

These Rules and Regulations cancel and supersede any and all previous issued Rules and Regulations on the subject

RULES AND REGULATIONS REGARDING EQUAL EMPLOYMENT OPPORTUNITY

Promulgated and adopted by the Manager of Public Works pursuant to and by authority of Article III, Division 2, Chapter 28 of the Revised Municipal Code of the City and County of Denver, and for the purpose of insuring that contractors. subcontractors and suppliers soliciting and receiving compensation for contract work from or through the City and County of Denver provide equal opportunity in employment without regard to race, color, creed, sex, national origin, age, religion, marital status, political opinion or affiliation or mental or physical handicap and meet certain requirements for the hiring' training promotion and treatment during employment of members of ethnic groups subjected to differential treatment , including persons of African descent (Black), Spanish-surnamed (Hispanic), Asian-American and American Indian groups.

<u>RULE I</u> DEFINITIONS

- A. "City" means the City and County of Denver.
- B. "Manager" shall mean the Manager of Public Works for the City and County of Denver.
- C. "Contract" means a contract entered into with the City and County of Denver, financed in whole or in part by local resources or funds of the City and County of Denver, for the construction of any public building or prosecution or completion of any public work.
- D. "Contractor" means the original party to a contract with the City and County of Denver, also referred to as the "general" or "prime" contractor.
- E. "Director" means the Director of the Mayor's Office of Contract Compliance.
- F. "Subcontractor" means any person company, association, partnership, corporation, or other entity which assumes by subordinate agreement some or all of the obligations of the general or prime contractor.
- G. The Phrase "Bidding Specifications" as used in Article 111, Division 2 of Chapter 28 of the Revised Municipal Code shall include BID CONDITION, INVITATION TO BID AND NOTICE OF PROPOSAL.
- H. "Affirmative Action Program" means a set of specific and result-oriented procedures or steps to which a contractor commits himself to apply every good faith effort to employ members of ethnic minority groups, to include persons of African descent (Black), Spanish surnamed (Hispanic), Asian-American, American Indians, and persons with mental or physical handicap.
- I. "Mayor's Office of Contract Compliance" means the City agency established pursuant to Article III, Division 1 of Chapter 28 of the Denver Revised Municipal Code.

<u>RULE II</u> NOTICE OF HEARING

When results of conciliation efforts are unsatisfactory to the Manager and he is informed in accordance with Article III, Division 2 of Chapter 28 of the Revised Municipal Code that a contractor or subcontractor has apparently failed to meet affirmative action and equal employment opportunity requirements after a reasonable period of notice to correct deficiencies, the Manager will, prior to imposition of any sanctions, afford the general contractor a hearing in order to determine whether the contractor or his subcontractors have failed to comply with the affirmative action and equal employment opportunity requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or of the contract. Written notice of such hearing shall be delivered personally or sent by certified mail return receipt requested, to the contractor and to any subcontractor involved at least ten days prior to the date scheduled for the hearing.

<u>RULE III</u> HEARING

- A. Contractors will appear at hearings and may be represented by counsel, and may present testimony orally and other evidence.
- B. Hearings shall be conducted by one or more hearing examiners designated as such by the Manager.
- C. The Director of the Mayor's Office of Contract Compliance may participate in hearings as a witness.
- D. Hearings shall be held at the place specified in the notice of hearing.
- E. All oral testimony shall be given under oath or affirmation and a record of such proceedings shall be made.
- F. All hearings shall be open to the public.
- G. The hearing officer shall make recommendations to the Manager who shall make a final decision.

REGULATIONS

<u>REGULATION NO. 1</u>. **ORDINANCE**: The Rules and Regulations of the Manager shall be inserted in the bidding specifications for every contract for which bidding is required.

REGULATION NO. 2. **EXEMPTIONS:** Each contract and subcontract, regardless of dollar amount, shall be subject to affirmative action requirements unless specifically exempted in writing individually by the Manager. Exemptions apply only to "affirmative action" in equal employment opportunity, and are not to be construed as condonation in any manner of "discrimination" or "discriminatory practices" in employment because of race, color, creed sex age national origin, religion, marital status, political opinion or mental or physical handicap.

REGULATION NO. 3. DIRECTOR OF CONTRACT COMPLIANCE: The Director of the Mayor's Office of Contract Compliance shall perform the duties assigned to such official by Article III, Division 2 of Chapter 28 of the Revised Municipal Code and by the Manager. (1) The Director of the Mayor's Office of Contract Compliance or designated representatives shall inform. bidders and contractors of affirmative action procedures, programs, and goals in accordance with the ordinance at pre-bid and pre-construction conference; (2) make regular on-site inspections; (3) supply contractors and subcontractors with report forms to be completed by them when requested, and furnished to the Director of the Mayor's Office of Contract Compliance; and (4) review payroll records, employment records and practices of general contractors and their subcontractors and suppliers during the performance of any contract. The Director of the Mayor's Office of Contract Compliance shall promptly report apparent affirmative action deficiencies to the Manager.

REGULATION NO. 4. GOALS AND TIMETABLES: In general, goals and timetables should take into account anticipated vacancies and the availability of skills in the market place from which employees should be drawn. In addition, where discrimination in employment by a general contractor or any of his subcontractors is indicated, a corrective action program will take into account the need by the general contractor and his subcontractors to correct past discriminatory practices and reach goals of minority manpower utilization on a timely basis through such recruiting and advertising efforts as are necessary and appropriate.

<u>REGULATION NO.5</u>. **AWARD OF CONTRACTS:** It shall be the responsibility of the Director of the Mayor's Office of Contract Compliance to determine the affirmative action capability of bidders, contractors and subcontractors and to recommend to the Manager the award of contracts to those bidders, contractors and subcontractors and suppliers who demonstrate the ability and willingness to comply with the terms of their contract.

<u>REGULATION NO. 6</u>. **PUBLICATION AND DUPLICATION:** Copies of these Rules and Regulations as amended by the Manager from time to time, shall as soon as practicable and after Notice being published will be made a part of all City Contracts.

<u>REGULATION NO. 7</u>. **NOTICE TO PROCEED:** Prior to issuance of Notice to Proceed a sign-off will be required of the Director of the Mayor's Office of Contract Compliance or his designee.

<u>REGULATION NO. 8</u>. **CONTRACTS WITH SUBCONTRACTORS:** To the greatest extent possible the contractor shall make a good faith effort to contract with minority contractors, subcontractors and suppliers for services and supplies by taking affirmative actions which include but are not limited to the following:

- 1. Advertise invitations for subcontractor bids in minority community news media.
- 2. Contact minority contractor organizations for referral of prospective subcontractors.
- 3. Purchase materials and supplies from minority material suppliers.

<u>REGULATION NO. 9</u>. **AGENCY REFERRALS:** it shall be no excuse that the union with which the contractor or subcontractor has an agreement providing for referral, exclusive or otherwise, failed to refer minority employees.

<u>REGULATION NO. 10</u>. **CLAUSES:** The Manager shall include the appropriate clauses in every contract and the contractor shall cause to be inserted in every subcontract the appropriate clauses:

- 1. **APPENDIX A:** City and County of Denver Equal Opportunity Clause-ALL CONTRACTS funded only with City & County of Denver monies.
- 2. APPENDIX B: Equal Opportunity Clause (11246)-ALL FEDERAL ASSISTED
- 3. APPENDIX C: Section 3-Assurance of Compliance-HUD ASSISTED PROJECTS.
- 4. **APPENDIX D:** Section 3-Clause-HUD ASSISTED PROJECTS.

All amendments to the appendices shall be included by reference.

REGULATION NO. 11. SHOW CAUSE NOTICES: When the Manager has reasonable cause to believe that a contractor has violated Article III, Division 2 of Chapter 28 of the Revised Municipal Code, he may issue a notice requiring the contractor to show cause, within fifteen days why enforcement procedures, or other appropriate action to insure compliance, should not be instituted.

REGULATION NO. 12. BID CONDITIONS-AFFIRMATIVE ACTION REQUIREMENTS-EQUAL EMPLOYMENT OPPORTUNITY:

1. APPENDIX E:

The Bid Conditions- Affirmative Action Requirements-Equal Employment Opportunity as amended and published by the U.S. Department of Labor, Employment Standards Administration, Office of Federal Contract Compliance, shall be inserted verbatim for bidding specification for every non-exempt contract involving the use of Federal funds.

2. APPENDIX F:

The Bid Conditions- Affirmative Action Requirements-Equal Employment Opportunity as published by the Department of Public Works, City and County of Denver shall be inserted verbatim as bidding specifications for every non-exempt contract using City funds.

APPENDIX A

CITY AND COUNTY OF DENVER EQUAL OPPORTUNITY CLAUSE-ALL CONTRACTS

- 1. The contractor will not discriminate against any employee or applicant for employment because of race creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection f6r training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap.
- 3. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided, advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. Each contractor will comply with all provisions of Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the rules, regulations, and relevant orders of the Manager and Director.
- 5. The contractor will furnish all information and reports required by Article III, Division 2, Chapter 28 of the Revised Municipal Code, and by rules, regulations and orders of the Manager and Director or pursuant thereto, and will permit access to his books, records, and accounts by the Manager, Director or their designee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders this contract may be cancelled, terminated., or suspended in whole or in part and the contractor may be declared ineligible for further City contracts in accordance with procedures authorized in Article III, Division 2, Chapter 28 of the Revised Municipal Code, or by rules, regulations, or order of the Manager.
- 7. The contractor will include Regulation 12 Paragraph 2 and the provisions of paragraphs (1) through (6) in every subcontract or purchase order unless, exempted by rules, regulations, or orders of the Manager issued pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, so that such provisions will be binding upon each subcontractor or suppliers. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

The applicant further agrees to be bound by the above equal opportunity clauses with respect to its own employment practices when it participates in City contracts. The contractor agrees to assist and cooperate actively with the Manager and the Director in obtaining compliance of subcontractors and suppliers with the equal opportunity clause and the rules, regulations and relevant orders of the Manager, and will furnish the Manager and the Director such information as they may require for the supervision of compliance, and will otherwise assist the Manager and Director in the discharge of the City's primary responsibility for securing compliance. The contractor further agrees to refrain from entering into any contract or contract modification subject to Article III, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who has not demonstrated eligibility for, City contracts. The contractor will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the Manager and Director. In addition, the contractor agrees that failure or refusal to comply with these undertakings the Manager may take any or all of the following actions:

- A. Cancellation, termination, or suspension in whole or in part of this contract.
- B. Refrain from extending any further assistance to the applicant under the program with respect to which the failure occurred until satisfactory assurance of future compliance has been received from such applicant.
- C. Refer the case to the City Attorney for appropriate legal proceedings.

SUBCONTRACTS: Each prime contractor or subcontractor shall include the equal opportunity clause in each of its subcontracts.

APPENDIX F BID CONDITIONS AFFIRMATIVE ACTION REQUIREMENTS EQUAL EMPLOYMENT OPPORTUNITY

For all Non-Exempt Construction Contracts to be Awarded by the City and County of Denver, Department of Public Works

NOTICE

EACH BIDDER, CONTRACTOR OR SUBCONTRACTOR (HEREINAFTER THE CONTRACTOR) MUST FULLY COMPLY WITH THE REQUIREMENTS OF THESE BID CONDITIONS AS TO EACH CONSTRUCTION TRADE IT INTENDS TO USE ON THIS CONSTRUCTION CONTRACT, AND ALL OTHER CONSTRUCTION WORK (BOTH CITY AND NON-CITY) IN THE DENVER AREA DURING THE PERFORMANCE OF THIS CONTRACT OR SUBCONTRACT. THE CONTRACTOR COMMITS ITSELF TO THE GOALS FOR MINORITY MANPOWER UTILIZATION, AS APPLICABLE, AND ALL OTHER REQUIREMENTS, TERMS AND CONDITION OF THESE BID CONDITIONS BY SUBMITTING A PROPERLY SIGNED BID.

THE CONTRACTOR SHALL APPOINT A COMPANY EXECUTIVE TO ASSUME THE RESPONSIBILITY FOR THE IMPLEMENTATION OF THE REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS.

EULOIS CLECKLEY Manager of Public Works City and County of Denver

A. REQUIREMENTS -- AN AFFIRM ATIVE ACTION PLAN:

Contractors shall be subject to the provisions and requirements of these bid conditions including the goals and timetables for minority' and female utilization, and specific affirmative action steps set forth by the Office of Contract Compliance. The contractor's commitment to the goals for minority, and female utilization as required constitutes a commitment that it will make every good faith effort to meet such goals.

1. GOALS AND TIMETABLES:

The goals and timetables for minority¹ and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade are as follows:

GOALS FOR MINORITY PARTICIPATION FOR EACH TRADE	GOALS FOR FEMALE PARTICIPATION FOR EACH TRADE
From January 1, 1982	From January 1, 1982
to 21.7% - 23.5%	to 6.9%
Until Further Notice	Until Further Notice

The goals for minority and female utilization above are expressed in terms of hours of training and employment as a proportion of the total number of hours to be worked by the contractor's aggregate workforce, which includes all supervisory personnel, in each trade, on all projects for the City and County of Denver during the performance of its contract (i.e., The period beginning with the first day of work on the City and County of Denver funded construction contract and ending with the last day of work).

The hours of minority and female employment and training must be substantially uniform throughout the length of the contract in each trade and minorities and females must be employed evenly on each of a contractor's projects. Therefore, the transfer of minority or female employees from contractor to contractor or from project to project for the purpose of meeting the contractor's goals shall be a violation of these Bid Conditions.

If the contractor counts the nonworking hours of apprentices they must be employed by the contractor during the training period; the contractor must have made a commitment to employ apprentices at the completion of their training subject to the availability of employment opportunities; and the apprentices must be trained pursuant to training programs approved by the Bureau of Apprenticeship and Training.

¹ "Minority" is defined as including, Blacks, Spanish Surname Americans, Asian-Americans, and American Indians, and includes both men and Minority women.

2. SPECIFIC AFFIRMATIVE ACTION STEPS:

No contractor shall be found to be in noncompliance solely on account of its failure to meet its goals, but will be given an opportunity to demonstrate that the contractor has instituted all the specific affirmative action steps specified and has made every good faith effort to make these steps work toward the attainment of its goals within the timetables, all to the purpose of expanding minority and female utilization in its aggregate workforce. A contractor, who fails to comply with its obligation under the Equal Opportunity Clause of its contract and fails to achieve its commitments to the goals for minority and female utilization has the burden of proving that it has engaged in an Affirmative Action Program directed at increasing minority and female utilization and that such efforts were at least as extensive and as specific as the following:

- a. The contractor should have notified minority and female organizations when employment opportunities were available and should have maintained records of the organization's response.
- b. The contractor should have maintained a file of the names and addresses of each minority and female referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the contractor, the reasons. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred, not employed by the contractor, the file should have documented this and their reasons.
- c. The contractor should have promptly notified the Department of Public Works, and Mayor's Office of Contract Compliance when the union or unions with which the contractor has collective bargaining agreements did not refer to the contractor a minority or female sent by the contractor, or when the contractor has other information that the union referral process has impeded efforts to meet its goals.
- d. The contractor should have disseminated its EEO policy within its organization by including it in any employee handbook or policy manual; by publicizing it in company newspapers and annual reports and by advertising such policy at reasonable intervals in union publications. The EEO policy should be further disseminated by conducting staff meetings to explain and discuss the policy; by posting of the policy; and by review of the policy with minority and female employees.
- e. The contractor should have disseminated its EEO policy externally by informing and discussing it with all recruitment sources; by advertising in news media, specifically including minority and female news media; and by notifying and discussing it with all subcontractors.
- f. The contractor should have made both specific and reasonably recurrent written and oral recruitment efforts. Such efforts should have been directed at minority and female organizations, schools with substantial minority and female enrollment, and minority and female recruitment and training organizations within the contractor's recruitment area.

- g. The contractor should have evidence available for inspection that all tests and other selection techniques used to select from among candidates for hire, transfer, promotion, training, or retention are being used in a manner that does not violate the OFCCP Testing Guidelines in 41 CFR Part 60-3.
- h. The contractor should have made sure that seniority practices and job classifications do not have a discriminatory effect.
- i. The contractor should have made certain that all facilities are not segregated by race.
- j. The contractor should have continually monitored all personnel activities to ensure that its EEO policy was being carried out including the evaluation of minority and female employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.
- k. The contractor should have solicited bids for subcontracts from available minority and female subcontractors engaged in the trades covered by these Bid conditions, including circulation of minority and female contractor associations.

NOTE: The Director and the Mayor's Office of Contract Compliance will provide technical assistance on questions pertaining to minority and female recruitment sources, minority and female community organizations, and minority and female news media upon receipt of a request for assistance from a contractor.

3. NON-DISCRIMINATION:

In no event may a contractor utilize the goals and affirmative action steps required in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex, marital status, national origin, age, mental or physical handicap, political opinion or affiliation.

4. COMPLIANCE AND ENFORCEMENT:

In all cases, the compliance of a contractor will be determined in accordance with its obligations under the terms of these Bid Conditions. All contractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors in writing of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority and female employment and training.

A. <u>Contractors Subject to these Bid Conditions</u>:

In regard to these Bid Conditions, if the contractor meets the goals set forth therein or can demonstrate that it has made every good faith effort to meet these goals, the contractor shall be presumed to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, the implementing regulations and its obligations under these Bid Conditions. In the event, no formal sanctions or proceedings leading toward sanctions shall be instituted unless the contracting or administering agency otherwise determines that the contractor is violating the Equal Opportunity Clause.

1. Where the Office of Contract Compliance finds that a contractor failed to comply with the requirements of Article 111, Division 2, Chapter 28 of the Revised Municipal

Code or the implementing regulations and the obligations under these Bid Conditions, and so informs the Manager, the Manager shall take such action and impose such sanctions, which include suspension, termination, cancellation, and debarment, as may be appropriate under the Ordinance and its regulations. When the Manager proceeds with such formal action it has the burden of proving that the contractor has not met the goals contained in these Bid Conditions. The contractor's failure to meet its goals shall shift to it the requirement to come forward with evidence to show that it has met the good faith requirements of these Bid Conditions.

- The pendency of such proceedings shall be taken into consideration by the Department of Public Works in determining whether such contractor can comply with the requirements of Article 111, Division 2, Chapter 28 of the Revised Municipal Code, and is therefore a "responsible prospective contractor".
- 3. The Mayor's Office of Contract Compliance shall review the contractor's employment practices during the performance of the contract. If the Mayor's Office of Contract Compliance determines that the contractor's Affirmative Action Plan is no longer an acceptable program, the Director shall notify the Manager.

B. **Obligations Applicable to Contractors**:

It shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority or female employees. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act, as amended, Title VI of the Civil Rights Act of 1964, as amended, and Article III, Division 2, Chapter 28 of the Revised Municipal Code. It is the policy of the Department of Public Works that contractors have a responsibility to provide equal employment opportunity, if they wish to participate in City and County of Denver contracts. To the extent they have delegated the responsibility for some of their employment practices to a labor organization and, as a result, are prevented from meeting their obligations pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, such Contractors cannot be considered to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, or its implementing rules and regulations.

C. <u>General Requirements</u>

Contractors are responsible for informing their subcontractors in writing regardless of tier, as to their respective obligations. Whenever a contractor subcontracts a portion of work in any trade covered by these Bid Conditions, it shall include these Bid Conditions in such subcontracts and each subcontractor shall be bound by these Bid Conditions to the full extent as if it were the prime contractor. The contractor shall not, however, be held accountable for the failure of its subcontractors to fulfill their obligations under these Bid Conditions. However, the prime contractor shall give notice to the Director of any refusal or failure of any subcontractor to fulfill the obligations under these Bid Conditions. A subcontractor's failure to comply will be treated in the same manner as such failure by a prime contractor.

- Contractors hereby agree to refrain from entering into any contract or contract modification subject to Article 111, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who is determined not to be a "responsive" bidder for the City and County of Denver contracts pursuant to the Ordinance.
- The contractor shall carry out such sanctions and penalties for violation of these Bid Conditions and the Equal Opportunity Clause including suspension, termination and cancellation of existing subcontracts and debarment from future contracts as may be ordered by the Manager pursuant to Article 111, Division 2, Chapter 28 of the Revised Municipal Code and its implementing regulations.
- 3. Nothing herein is intended to relieve any contractor during the term of its contract from compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the Equal Opportunity Clause of its contract with respect to matters not covered in these Bid Conditions.
- 4. Contractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the Office of Contract Compliance.
- 5. Requests for exemptions from these Bid Conditions must be made in writing, with justification, to the Manager of Public Works, City and County Building, Room 379, Denver, Colorado 80202, and shall be forwarded through and with the endorsement of the Director.

EXHIBIT C

CITY AND COUNTY OF DENVER INSURANCE REQUIREMENTS FOR DEPARTMENT OF AVIATION OWNER CONTROLLED INSURANCE PROGRAM (OCIP/ROCIP) PROJECT

NOTICE OF CHANGE TO ROCIP: DEN reserves the right to terminate or modify the DEN ROCIP or any portion thereof. Further, dependent on factors including, but not limited to, the official timing and duration of the ROCIP project for which services are provided under this Agreement, DEN may need to transition from one ROCIP program to another and introduce corresponding requirements for contractors. DEN will provide Contractor notice in accordance with the terms and conditions of this Agreement.

1. General Information

City and County of Denver and Denver International Airport (hereinafter referred to collectively as "DEN") has arranged for certain construction activities at DEN to be insured under an Owner Controlled Insurance Program (OCIP) or a Rolling Owner Controlled Insurance Program (ROCIP) (hereinafter collectively referred to as "ROCIP"). A ROCIP is a single insurance program that insures DEN, the Contractor and subcontractors of any tier, and other designated parties (Enrolled Parties), for work performed at the Project Site. Certain trade contractors and subcontractors are ineligible for this program; see Excluded Parties under the definitions Section 7 for a general list of excluded parties. Insurance requirements are determined based on the scope of work.

1.2 ROCIP Manuals

Below are links to access the current reference manuals related to DEN ROCIP III. These manuals are part of the Contract Documents.

DEN ROCIP III Insurance Manual DEN ROCIP III Safety Manual DEN ROCIP III Claims Guide

2. Insurance Requirements for Non-ROCIP Contractors and Subcontractors (Excluded Parties)

Contractor and subcontractors of any tier shall require all Excluded Parties, as defined in Section 7 or confirmed as excluded by DEN, to provide and maintain insurance of the type and in limits as set forth in the Contractor Subcontract Agreement and such insurance shall include the minimum defined coverages and be evidenced to DEN as required in this Section 2.

2.1 Certificate Holder

Certificate(s) shall be issued to:

CITY AND COUNTY OF DENVER Denver International Airport 8500 Peña Boulevard, Suite 8810 Denver CO 80249 Attn: Risk Management

2.2 Acceptable Certificate of Insurance Form and Submission Instructions

Please read these requirements carefully to ensure proper documentation and receipt of your certificate(s) of insurance.

- ACORD FORM (or equivalent) certificate is required.
- SUBMIT via emailed in pdf format to: contractadmininvoices@flydenver.com
- ELECTRONIC CERTIFICATES are required, hard copy documents will not be accepted.

- THIRD PARTY SOFTWARE may be implemented during the term of this Agreement to manage insurance compliance and documents with required use by Vendor of such system.
- REFERENCE on the certificate must include the DEN assigned Contract Number.
- 2.3 Coverage and Limits
 - 2.3.1 Commercial General Liability

Contractor shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations in minimum limits of \$1,000,000 each occurrence, \$2,000,000 products and completed operations aggregate and \$2,000,000 annual aggregate.

- 2.3.1.1 Coverage shall include Contractual Liability covering liability assumed under this Agreement (including defense costs assumed under contract) within the scope of coverages provided.
- 2.3.1.2 Coverage shall include Mobile Equipment Liability.
- 2.3.2 Business Automobile Liability

Contractor shall maintain a minimum limit of \$1,000,000 combined single limit each occurrence for bodily injury and property damage for all owned, leased, hired and/or non-owned vehicles used in performing services under this Agreement.

- 2.3.2.1 If operating vehicles unescorted airside at DEN, a \$10,000,000 combined single limit each occurrence for bodily injury and property damage is required.
- 2.3.2.2 If Contractor does not have blanket coverage on all owned and operated vehicles, then a schedule of insured vehicles (including year, make, model and VIN number) must be submitted by the insurer with the Certificate of Insurance.
- 2.3.2.3 The policy must not contain an exclusion related to operations on airport premises.
- 2.3.2.4 If transporting waste, hazardous material, or regulated substances, Contractor shall carry a Broadened Pollution Endorsement and an MCS 90 endorsement on its policy.
- 2.3.2.5 If Contractor is an individual or represents that Contractor does not own any motor vehicles and Contractor's owners, officers, directors, and employees use their personal vehicles for business purposes, Personal Automobile Liability insurance coverage will be accepted provided it includes a business use endorsement.
- 2.3.2.6 If Contractor will be completing all services to DEN under this Agreement remotely this requirement will be waived.
- 2.3.3 Workers' Compensation and Employer's Liability Insurance

Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury caused by disease claim, and \$1,000,000 aggregate for all bodily injuries caused by disease claims.

2.3.3.1 If Contractor is a sole proprietor, Workers' Compensation and Employer's Liability is exempt under the Colorado Workers' Compensation Act.

2.3.4 Professional Liability (Errors and Omissions) Insurance

Contractor shall maintain a minimum limit of \$1,000,000 each claim and policy aggregate, providing coverage for applicable services outlined in this Agreement. If there are no applicable professional services, this coverage will not be required.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

2.3.5 Contractor's Pollution Legal Liability

If required by DEN Risk Management for any specific Excluded Party based on their scope of work, Contractor shall maintain coverage for its work site operations that are conducted on DEN's premises including project management and site supervision duties with a limit no less than \$1,000,000 each occurrence and aggregate resulting from claims arising out of a pollution condition or site environmental condition resulting out of work site operations on DEN's premises.

- 2.3.5.1 Coverage shall include claims/losses for bodily injury, property damage including loss of use of damaged property, defense costs including costs and expenses incurred in the investigation, defense or settlement of claims, and cleanup cost for pollution conditions resulting from illicit abandonment, the discharge, dispersal, release, escape, migration or seepage of any sold, liquid, gaseous or thermal irritant, contaminant, or pollutant, including soil, silt, sedimentation, smoke, soot, vapors, fumes, acids, alkalis, chemicals, electromagnetic fields, hazardous substances, hazardous materials, waste materials, low level radioactive waste, mixed wastes, on, in, into, or upon land and structures thereupon, the atmosphere, surface water or groundwater on the DEN premises.
- 2.3.5.2 Work site means a location where covered operations are being performed, including real property rented or leased from DEN for the purpose of conducting Contractor's covered operations.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

- 2.3.6 Technology Errors and Omissions, Network Security, and Privacy Liability (Cyber): If required by DEN Risk Management for any specific Excluded Party based on their scope of work, Contractor shall maintain a limit no less than \$1,000,000 each claim and aggregate; \$1,000,000 each claim and aggregate for cyber extortion; and no less than \$250,000 each claim for invoice manipulation and email spoofing.
 - 2.3.6.1 Coverage shall include professional misconduct or lack of ordinary skill.
 - 2.3.6.2 Coverage shall include, but not be limited to, liability arising from theft, dissemination and/or use of personal, private, confidential, information subject to a non-disclosure agreement, including information stored or transmitted, privacy or cyber laws, damage to or destruction of information, intentional and/or unintentional release of private information, alteration of information, extortion and network security, introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network or similar computer related property and the data, software, and programs thereon, advertising injury, personal injury (including invasion of privacy) and intellectual property offenses related to internet.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

2.3.7 Unmanned Aerial Vehicle (UAV) Liability

If Contractor desires to use drones in any aspect of its work on DEN premises, the following requirements must be met prior to commencing any drone operations:

- 2.3.7.1 Express written permission must be granted by DEN.
- 2.3.7.2 Express written permission must be granted by the Federal Aviation Administration (FAA).
- 2.3.7.3 Drone equipment must be properly registered with the FAA.
- 2.3.7.4 Drone operator(s) must be properly licensed by the FAA.
- 2.3.7.5 Contractor must maintain UAV Liability including flight coverage, personal and advertising injury liability, and hired/non-owned UAV liability for its commercial drone operations with a limit no less than \$1,000,000 combined single limit each occurrence for bodily injury and property damage.
- 2.3.8 Excess/Umbrella Liability

Combination of primary and excess coverage may be used to achieve minimum required coverage limits. Excess/Umbrella policy(ies) must follow form of the primary policies with which they are related to provide the minimum limits and be verified as such on any submitted Certificate of Insurance.

2.4 Reference to Project and/or Contract

The DEN Project and/or Contract Number and project description shall be noted on the Certificate of Insurance.

2.5 Additional Insured

For all coverages required under this Agreement (excluding Workers' Compensation and Professional Liability), Contractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers as Additional Insureds by policy endorsement.

2.6 Waiver of Subrogation

For all coverages required under this Agreement, Contractor's insurer(s) shall waive subrogation rights against the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers by policy endorsement.

2.7 Notice of Material Change, Cancellation or Nonrenewal

Each certificate and related policy shall contain a valid provision requiring notification to the Certificate Holder in the event any of the required policies be canceled or non-renewed or reduction in coverage before the expiration date thereof.

- 2.7.1 Such notice shall reference the DEN assigned contract number related to this Agreement.
- 2.7.2 Said notice shall be sent thirty (30) days prior to such cancellation, non-renewal or reduction in coverage unless due to non-payment of premiums for which notice shall be sent ten (10) days prior.
- 2.7.3 If such written notice is unavailable from the insurer or afforded as outlined above, Contractor and/or it is insurance broker/agent shall provide written notice of cancellation, non-renewal and

any reduction in coverage to the Certificate Holder within seven (7) business days of receiving such notice by its insurer(s) and include documentation of the formal notice received from its insurer(s) as verification. Contractor shall replace cancelled or nonrenewed policies with no lapse in coverage and provide an updated Certificate of Insurance to DEN.

2.8 Additional Provisions

- 2.8.1 Deductibles, SIRS, or any other type of retention are the sole responsibility of the Contractor.
- 2.8.2 Defense costs shall be in addition to the limits of liability. If this provision is unavailable that limitation must be evidenced on the Certificate of Insurance.
- 2.8.3 A severability of interests or separation of insureds provision (no insured vs. insured exclusion) is included under any policy requiring Additional Insured status.
- 2.8.4 A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by DEN, excluding Professional Liability and Workers' Compensation policies, if required.
- 2.8.5 The insurance requirements under this Agreement shall be the greater of (i) the minimum limits and coverage specified hereunder or (ii) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the Contractor. It is agreed that the insurance requirements set forth herein shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums set forth in this Agreement.
- 2.8.6 All policies shall be written on an occurrence form when available and industry norm. If an occurrence form is unavailable and/or the industry norm, claims-made coverage may be accepted by DEN provided the retroactive date is on or before the Agreement Effective Date or the first date when any goods or services were provided to DEN, whichever is earlier, and continuous coverage will be maintained or an extended discovery period of three years beginning at the time work under this Agreement is completed or the Agreement is terminated, whichever is later.
- 2.8.7 Contractor shall advise DEN in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.
- 2.8.8 Certificates of Insurance must specify the issuing companies, policy numbers and policy periods for each required form of coverage. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf and must be submitted to DEN at the time Contractor signed this Agreement.
- 2.8.9 The insurance shall be underwritten by an insurer licensed or authorized to do business in the State of Colorado and rated by A.M. Best Company as A- VIII or better.
- 2.8.10 Certificate of Insurance and Related Endorsements: DEN's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of DEN's rights or remedies under this Agreement. DEN's acceptance of any submitted insurance certificate is subject to the approval of DEN Risk Management. All coverage requirements specified in the certificate shall be enforced unless waived or otherwise modified in writing by DEN Risk Management. Contractor is solely responsible for ensuring all formal policy endorsements are issued by their insurers to support the requirements herein.
- 2.8.11 DEN shall have the right to verify or confirm, at any time, all coverage, information or representations, and the insured and its undersigned agent shall promptly and fully cooperate in any such audit DEN may elect to undertake including provision of certified copies of insurance policies upon request.
- 2.8.12 No material changes that negatively impact DEN or reductions in the coverage required herein shall be allowed without the review and written approval of DEN Risk Management.

3. Insurance Requirements for ROCIP Enrolled Contractors and Subcontractors

3.1 Insurance Provided by the DEN ROCIP

DEN retains the right to have this Project insured under a ROCIP. ROCIP coverage shall provide: (i) Commercial General Liability, (ii) Workers' Compensation & Employer's Liability, (iii) Excess Liability, (iv) Contractor's Pollution Liability, and (v) Builder's Risk as outlined herein and as defined by the respective policies for each coverage, for the period from the start of Work through completion and final acceptance by DEN except as otherwise provided herein.

3.2 Enrollment Required

Parties performing labor or services at the Project Site are eligible to enroll in the DEN ROCIP, unless they are Excluded Parties (as defined in Section 7). Participation is mandatory but not automatic. Parties eligible for enrollment shall follow the procedures and follow the instructions as provided in the DEN ROCIP Insurance Manual to enroll in the program. When the Contractor and subcontractors of any tier are properly enrolled, the DEN ROCIP Administrator will issue a Certificate of Insurance evidencing the coverages afforded to each Enrolled Party under the DEN ROCIP, prior to their commencing Work on the Project Site.

3.3 Exclusion of Contractor/Subcontractor Insurance Costs from Proposal and Bid Prices

Contractor shall exclude from Contractor's cost of work and ensure that each subcontractor of any tier exclude from their cost of work, normal costs for insurance for those coverages provided under the DEN ROCIP. As part of the enrollment process, Contractor and subcontractors shall provide policy declaration rate pages and deductible endorsements on the General Liability, Workers' Compensation, and Excess Liability policies as required in the DEN ROCIP Insurance Manual. The calculation of these costs will be determined by the ROCIP Program Administrator. The costs of DEN ROCIP coverage includes reductions in insurance premiums, all relevant taxes and assessments, markup on insurance premiums, and losses retained through large deductibles, self-insured retentions, or self-funded programs. Change orders shall also exclude the cost of ROCIP coverage.

Pre-employment substance abuse testing costs will be covered by DEN and should be removed from bid prices. Drug testing will be more thoroughly discussed in the ROCIP Safety Manual.

3.4 Insurance Premiums

DEN will pay the insurance premiums for the DEN ROCIP insurance policies. DEN is responsible for all adjustments to the premiums and will be the sole beneficiary of all dividends, retroactive adjustments, return premiums, and any other monies due through audits or otherwise. The Contractor assigns to DEN the right to receive all such adjustments and will require that each subcontractor of any tier assign to DEN all such adjustments. The Contractor and the subcontractors who are Enrolled Parties shall execute such further documentation as may be required by DEN to accomplish this assignment.

3.5 Off Site Operations Coverage Under ROCIP

The DEN ROCIP will provide certain insurance coverage for DEN, Contractor and Enrolled Parties, along with their Eligible Employees performing Work at the Project Site. Off-site operations shall be covered only if designated in writing by DEN and when all operations at such site are identified and solely dedicated to the Project. Contractors and subcontractors are responsible to notify the DEN ROCIP Administrator in writing, to request coverage for specified off-site operations. Coverage is not provided at the off-site location unless confirmed in writing by the DEN ROCIP Administrator.

3.6 DEN ROCIP Insurance Manual

As soon as practicable, the DEN ROCIP Insurance Manual will be sent to each Enrolled Party and will become a part of the Contract and Contractor's Subcontract with its subcontractor and its subcontractors' agreements with any lower-tier subcontractor. The DEN ROCIP Insurance Manual will contain the

administrative and claim reporting procedures. Contractor agrees to and will require that its subcontractors of any tier to cooperate with the DEN ROCIP Administrator in providing all required information.

3.7 Conflicts

Descriptions of the DEN ROCIP coverages set forth in Section 3.8 are not intended to be complete or meant to alter or amend any provision of the DEN ROCIP insurance policies. The DEN ROCIP coverages, terms, conditions, and exclusions are set forth in full in their respective policy forms. In the event of a conflict or omission between the coverages provided in the DEN ROCIP insurance policies and the coverages summarized or described in the DEN ROCIP Insurance Manual, this Exhibit or elsewhere in the Contract Documents, the DEN ROCIP insurance policies shall govern. In the event of a conflict with the provisions of the DEN ROCIP insurance policies, the provisions of this Exhibit shall govern.

3.8 ROCIP Insurance Coverage Provided to Enrolled Parties

3.8.1 Insurance Provided by DEN

Unless otherwise provided herein, prior to commencement of the Work, DEN, at its sole option and expense, shall secure and maintain at all times during the performance of this Contract the insurance specified below, insuring DEN, Enrolled Parties and such other persons or interests as DEN may designate with limits not less than those specified below for each coverage.

3.8.1.1 Workers' Compensation & Employer's Liability – On Site Only

DEN shall maintain the coverage as required by statute for the Project Site and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury caused by disease claim, and \$1,000,000 aggregate for all bodily injuries caused by disease claims.

3.8.1.2 Commercial General Liability – On Site Only

DEN shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations in minimum limits as listed below:

Coverage	Limit
Annual General Aggregate	
(Per Project and Reinstates Annually)	\$4,000,000
Products/Completed Operations Aggregate	\$4,000,000
(Per Project and Statute of Repose)	
Total Products/Completed Operations Aggregate	\$8,000,000
(Statute of Repose)	
Personal / Advertising Injury Limit	\$2,000,000
Each Occurrence Limit	\$2,000,000
Fire Damage Legal Liability (any one fire)	\$ 300,000
Medical Payments (any one person)	\$ 10,000

3.8.1.3 Excess Liability Insurance

DEN shall maintain coverage following form with underlying policies of

Commercial General Liability and Employer's Liability in minimum limits as listed below:

Coverage	Limit
Annual General Aggregate	
(Per Project and Reinstates Annually)	\$200,000,000
Products/Completed Operations Aggregate	\$200,000,000
(Per Project)	
Total Products/Completed Operations Aggregate	\$400,000,000
(Policy Cap)	
Each Occurrence Limit	\$200,000,000

DEN, in its sole discretion, may elect to provide higher limits, based on Project size. Excess Liability limits are shared by all Insured parties.

3.8.1.4 Contractor's Pollution Liability

DEN shall maintain coverage for bodily injury, property damage, or environmental damage caused by a pollution event resulting from covered operations, including completed operations, at the Project Site with a limit no less than \$10,000,000 each occurrence and aggregate. Coverage includes microbial matter and legionella pneumophila in any structure on land and the atmosphere contained with the structure. Products/Completed Operations coverage may extend for the statute of limitations/repose after final completion of the Project.

3.8.1.5 Builder's Risk Insurance

DEN shall maintain, Builder's Risk (and/or Installation Floater) in the amount of \$500,000,000 per occurrence subject to various sublimits (as defined in the Builders' Risk Policy). Such insurance shall end when the first of the following occurs: 1) DEN's interest in the Work ceases; 2) the policy expires or is cancelled; or 3) the Work is accepted by DEN.

Builder's Risk Insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss of damage including , theft, vandalism, malicious mischief, terrorism, rigging and hoisting for materials and equipment that are part of the Project, collapse, earthquake, flood, windstorm, falsework, testing and startup (as provided by the policy), temporary buildings and debris removal including demolition occasioned by enforcement of any applicable ordinance laws, and shall cover reasonable compensation for services and expenses required as a result of such insured loss.

This Builder's Risk Insurance shall cover portions of the Work stored off site, and also portions of the Work in transit.

DEN and Contractor shall waive all rights against (1) each other and any of their subcontractors of any tier, and all respective agents and employees, and (2) the architect, architect's consultants, separate contractors, if any, and any of their subcontractors of any tier, and all respective agents and employees, for damages caused by fire or other causes of loss to the extent covered by Builder's Risk Insurance obtained pursuant to this Section or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by DEN as fiduciary. DEN or Contractor, as appropriate, shall require of the architect,

architect's consultants, separate contractors, and their subcontractors of any tier, and all respective agents and employees, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

3.8.2 Claim Chargeback

A claim charge-back will be assessed, regardless of fault, for the amount of any loss payable under this program with the exception of Workers' Compensation and Excess Liability, up to a maximum of \$25,000 each loss. Lead Contractor may elect to pass no more than \$5,000 of this charge, each loss, through to any responsible subcontractor.

3.9 Other Insurance Provided By Enrolled Parties

At their own expense, the Enrolled Parties of all tiers must carry the following minimum coverage and limits and such insurance shall be evidenced to DEN and the DEN ROCIP Administrator as required in this Section 3.9.

3.9.1 Certificate Holder

Certificate(s) shall be issued to: CITY AND COUNTY OF DENVER Denver International Airport 8500 Peña Boulevard, Suite 8810 Denver CO 80249

and

CITY AND COUNTY OF DENVER Department of Aviation c/o Arthur J. Gallagher RMS, Inc. 12444 Powerscourt Drive St. Louis, MO 63131 Attn: Gallagher OCIP Group

Attn: Risk Management

3.9.2 Acceptable Certificate of Insurance Form and Submission Instructions

Please read these requirements carefully to ensure proper documentation and receipt of your certificate(s) of insurance.

• ACORD FORM (or equivalent) must be emailed in pdf format to:

contractadmininvoices@flydenver.com

and heather_lawson@ajg.com

- HARD COPIES of certificates and/or copies of insurance policies will not be accepted.
- ACORD FORM (or equivalent) must reference the DEN assigned Contract Number.
- 3.9.3 Commercial General Liability Off Site Only

Contractor shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations for Contract operations not physically occurring within the Project Site in minimum limits of \$1,000,000 each occurrence,

\$2,000,000 products and completed operations aggregate and \$2,000,000 policy and annual aggregate.

- 3.9.3.1 Coverage shall include Contractual Liability covering liability assumed under this Agreement (including defense costs assumed under contract) within the scope of coverages provided.
- 3.9.4 Business Automobile Liability

Contractor shall maintain a minimum limit of \$1,000,000 combined single limit each occurrence for bodily injury and property damage for all owned, leased, hired and/or non-owned vehicles used in performing services under this Agreement.

- 3.9.4.1 If operating vehicles unescorted airside at DEN, a \$10,000,000 combined single limit each occurrence for bodily injury and property damage is required.
- 3.9.4.2 If Contractor does not have blanket coverage on all owned and operated vehicles, then a schedule of insured vehicles (including year, make, model and VIN number) must be submitted by the insurer with the Certificate of Insurance.
- 3.9.4.3 The policy must not contain an exclusion related to operations on airport premises.
- 3.9.4.4 If transporting waste, hazardous material, or regulated substances, Contractor shall carry a pollution coverage endorsement and an MCS 90 endorsement on its policy.
- 3.9.4.5 If Contractor is an individual or represents that Contractor does not own any motor vehicles and Contractor's owners, officers, directors, and employees use their personal vehicles for business purposes, Personal Automobile Liability insurance coverage will be accepted provided it includes a business use endorsement.
- 3.9.4.6 If Contractor will be completing all services to DEN under this Agreement remotely this requirement will be waived.
- 3.9.5 Workers' Compensation and Employer's Liability Insurance Off Site Only

Coverage to protect Contractor/Subcontractor from and against all claims arising from performance of Work outside the Project Site under the Contract.

Contractor shall maintain the coverage as required by statute for performance of Work outside the Project Site under the Contract and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury claim, and \$1,000,000 aggregate for all bodily injuries caused by disease claims.

- 3.9.5.1 If Contractor is a sole proprietor, Workers' Compensation and Employer's Liability is exempt under the Colorado Workers'' Compensation Act.
- 3.9.6 Professional Liability (Errors and Omissions) Insurance

Contractor shall maintain a minimum limit of \$1,000,000 each claim and policy aggregate, providing coverage for applicable services outlined in this Agreement.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

3.9.7 Technology Errors and Omissions, Network Security, and Privacy Liability (Cyber): Contractor shall maintain a limit no less than \$1,000,000 each claim and aggregate; \$1,000,000 each claim and aggregate for cyber extortion; and no less than \$250,000 each claim for invoice manipulation and email spoofing for applicable services outlined in this Agreement.

- 3.9.7.1 Coverage shall include professional misconduct or lack of ordinary skill.
- 3.9.7.2 Coverage shall include, but not be limited to, liability arising from theft, dissemination and/or use of personal, private, confidential, information subject to a non-disclosure agreement, including information stored or transmitted, privacy or cyber laws, damage to or destruction of information, intentional and/or unintentional release of private information, alteration of information, extortion and network security, introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network or similar computer related property and the data, software, and programs thereon, advertising injury, personal injury (including invasion of privacy) and intellectual property offenses related to internet.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

3.9.8 Excess/Umbrella Liability:

Combination of primary and excess coverage may be used to achieve minimum required coverage limits. Excess/Umbrella policy(ies) must follow form of the primary policies with which they are related to provide the minimum limits and be verified as such on any submitted Certificate of Insurance.

3.9.9 Reference to Project and/or Contract

The DEN Project and/or Contract Number and project description shall be noted on the Certificate of Insurance.

3.9.10 Additional Insured

For all coverages required under this Agreement (excluding Workers' Compensation and Professional Liability), Contractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers as Additional Insureds by policy endorsement.

3.9.11 Waiver of Subrogation

For all coverages required under this Agreement, Contractor's insurer(s) shall waive subrogation rights against the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers by policy endorsement.

3.9.12 Notice of Material Change, Cancellation or Nonrenewal

Each certificate and related policy shall contain a valid provision requiring notification to the Certificate Holder in the event any of the required policies be canceled or non-renewed or reduction in coverage from the requirements herein before the expiration date thereof.

- 3.9.12.1 Such notice shall reference the DEN assigned contract number related to this Agreement.
- 3.9.12.2 Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal or reduction in coverage unless due to non-payment of premiums for which notice shall be sent ten (10) days prior.
- 3.9.12.3 If such written notice is unavailable from the insurer, and in any event, Contractor and/or it is insurance broker/agent shall provide written notice of cancellation, non-

renewal and any reduction in coverage to the Certificate Holder within seven (7) business days of receiving such notice by its insurer(s) and include documentation of the formal notice received from its insurer(s) as verification. Contractor shall replace cancelled or nonrenewed policies with no lapse in coverage and provide an updated Certificate of Insurance to DEN.

3.9.13 Additional Provisions

- 3.9.13.1 Deductibles, SIRS, or any other type of retention are the sole responsibility of the policyholder.
- 3.9.13.2 Defense costs shall be in addition to the limits of liability. If this provision is unavailable that limitation must be evidenced on the Certificate of Insurance.
- 3.9.13.3 A severability of interests or separation of insureds provision (no insured vs. insured exclusion) is included under any policy requiring Additional Insured status.
- 3.9.13.4 A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by DEN, excluding Professional Liability and Workers' Compensation policies, if required.
- 3.9.13.5 The insurance requirements under this Agreement shall be the greater of (i) the minimum limits and coverage specified hereunder or (ii) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the Contractor. It is agreed that the insurance requirements set forth herein shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums set forth in this Agreement.
- 3.9.13.6 All policies shall be written on an occurrence form when available and industry norm. If an occurrence form is unavailable and/or the industry norm, claims-made coverage may be accepted by DEN provided the retroactive date is on or before the Agreement Effective Date or the first date when any goods or services were provided to DEN, whichever is earlier, and continuous coverage will be maintained or an extended discovery period of three years beginning at the time work under this Agreement is completed or the Agreement is terminated, whichever is later.
- 3.9.13.7 Contractor shall advise DEN in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.
- 3.9.13.8 Certificates of Insurance must specify the issuing companies, policy numbers and policy periods for each required form of coverage. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf and must be submitted to DEN at the time Contractor signed this Agreement.
- 3.9.13.9 The insurance shall be underwritten by an insurer licensed or authorized to do business in the State of Colorado and rated by A.M. Best Company as A- VIII or better.
- 3.9.13.10 Certificate of Insurance and Related Endorsements: DEN's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of DEN's rights or remedies under this Agreement. DEN's acceptance of any submitted insurance certificate is subject to the approval of DEN Risk Management. All coverage requirements specified in the certificate shall be enforced unless waived or otherwise modified in writing by DEN Risk Management. Contractor is solely responsible for ensuring all formal policy endorsements are issued by their insurers to support the requirements herein.
- 3.9.13.11 DEN shall have the right to verify or confirm, at any time, all coverage, information or representations, and the insured and its undersigned agent shall promptly and

fully cooperate in any such audit DEN may elect to undertake including provision of certified copies of insurance policies upon request.

3.9.13.12 No material changes that negatively impact DEN or reductions in the coverage required herein shall be allowed without the review and written approval of DEN Risk Management.

4. Contractor Warranties and Agreements

4.1 Accuracy of Contractor-provided Information

Contractor warrants that all information submitted to DEN or the DEN ROCIP Administrator is accurate and complete to the best of its knowledge. Contractor will notify DEN or the DEN ROCIP Administrator immediately in writing of any errors discovered during the performance of the Work.

4.2 Contractor Responsible to Review Coverage

Contractor acknowledges that all references to DEN ROCIP policy terms, conditions, and limits of liability in this document, as well as the DEN ROCIP Insurance Manual, are for reference only. Contractor and its subcontractors of any tier are responsible for conducting their own independent review and analysis of the DEN ROCIP insurance policies in formulating any opinion or belief as to the applicability of such coverage in the event of any loss or potential claim. Any type of insurance or increase of limits not described above, which the Contractor requires for its own protection or on account of statute, shall be its own responsibility and at its own expense.

4.3 Audit

Contractor agrees to make its records available for review and to cooperate with DEN, its insurers and insurance brokers, the City Auditor, and representatives of the aforesaid parties in the event of an audit. In the event that a DEN audit of Contractor's records, as permitted in the Contract or other DEN ROCIP documents, reveals a discrepancy in the insurance, payroll, safety, or any other information required to be provided to DEN or the DEN ROCIP Administrator, or reveals inclusion of costs for DEN ROCIP coverage or other coverage beyond what is described above in any payment for the Work, DEN will have the right to deduct from payments due Contractor all such insurance costs as well as all audit costs.

4.4 Insurance Costs Removed

Contractor warrants that the costs for insurance as provided under the DEN ROCIP were not included in Contractor's bid or proposal for the Work, the Contract Price/Contract Sum, and will not be included in any change order or any request for payment for the Work or extra work.

5. Contractor Obligations

5.1 ROCIP Documents Shall be Provided to Subcontractor

Contractor shall furnish each bidding subcontractor, vendor, supplier, material dealer or other party a copy of this Exhibit, the DEN ROCIP Insurance Manual and the DEN ROCIP Safety Manual and shall incorporate the terms of this Exhibit in all contracts and agreements entered into for performance of any portion of the Work.

5.2 Timely Enrollment Required

Contractor shall enroll in the DEN ROCIP within five (5) business days following a request by DEN or the DEN ROCIP Administrator. Contractor shall notify each subcontractor of the process for enrolling in DEN ROCIP and confirm that enrollment is mandatory, but not automatic. Contractor shall assure that subcontractors of any tier shall not commence Work until verification of enrollment is confirmed by the DEN ROCIP Administrator by the issuance of a Certificate of Insurance to each individual Enrolled Party.

5.3 Compliance with Conditions

Contractor shall not violate any condition of the policies of insurance provided by DEN under the terms of this Exhibit, the DEN ROCIP Insurance Manual or the DEN ROCIP Safety Manual. All requirements imposed by the subject policies and to be performed by Contractor shall likewise be imposed on, assumed, and performed by each subcontractor of any tier.

5.4 Claims Cooperation

Contractor shall participate in claim reporting procedures. Contractor agrees to assist and cooperate in every manner possible in connection with the adjustment of all claims arising out of operations within the scope of the Work required by the Contract, and to cooperate with DEN's insurer(s) in all claims and demands which DEN's insurer(s) is called upon to adjust or to defend against. Contractor shall take all necessary action to assure that its subcontractors of any tier comply with any request for assistance and cooperation. This obligation includes, without limitation, providing light or modified duty for injured workers, appearing in mediation, arbitration or court proceedings and/or participating in settlement meetings, as may be required.

5.5 Monthly Payroll Submission

All Enrolled Parties shall submit monthly payrolls and worker-hour reports to DEN and/or the DEN ROCIP Administrator via the DEN ROCIP Administrator's online reporting system as outlined in the DEN ROCIP Insurance Manual. The online reporting instructions will be provided to all Contractors at time of enrollment. Failure to submit these reports may result in funds being held or delayed from monthly progress payments. Payroll must be submitted online for each month, including zero (0) payroll, if applicable, until completion of the Work under each Contract and Subcontract. For subcontractors of any tier performing Work under multiple Subcontracts, a separate payroll report is required for each Subcontract under which Work is being performed.

5.6 Response to Information Requests

All insurance underwriting, payroll, rating or loss history information requested by DEN or the DEN ROCIP Administrator shall be provided by the Contractor within three (3) business days of request. Contractor agrees (and will require each subcontractor to agree) that DEN, DEN's insurers or its representative may audit the Contractor's records or records of subcontractors of any tier to confirm the accuracy of all insurance information provided including, without limitation, any such information that may have any effect on insurance resulting from changes in the Work. At all times during performance of the Contract and Subcontracts, the Contractor and subcontractors of any tier shall cooperate with DEN, the DEN ROCIP Administrator and DEN's insurers.

5.7 Responsibility for Safety

Notwithstanding the DEN ROCIP, the Contractor shall initiate, maintain and supervise all safety precautions and programs in connection with the Work. Contractor is solely responsible, at no adjustment to the contract sum payable or contract time, for initiating, maintaining, and supervising all safety precautions and programs relating to the conduct of Work including, without limitation, any safety programs or procedures that are required by any applicable state or federal laws, rules or regulations, or under the terms of the DEN ROCIP Safety Manual.

5.8 Duty of Care

Nothing herein shall relieve the Enrolled Parties of their respective obligations to exercise due care in the

performance of their duties in connection with the Work or to complete the Work in strict compliance with this Contract and subsequent subcontracts.

6. Notices and Costs

6.1 Limitations on DEN Provided Coverage and DEN Right to Purchase Other Coverage

DEN assumes no obligations to provide insurance other than that evidenced by the policies referred to in Section 3.8. DEN, however, reserves the right to furnish insurance coverage of various types and limits provided that such coverage shall not be less than that specified in Section 3.8 and the costs of such insurance shall be paid by DEN. Apart from the DEN ROCIP, DEN may at its option purchase additional insurance coverages that insure the Project that may not necessarily insure the Contractor or the subcontractors. Without limitation, examples of such coverage may include pollution liability, excess professional liability, and excess automobile liability insurance.

6.2 Contractors Responsible for Own Equipment

Contractor and subcontractors are solely responsible for loss or damage of all construction tools and other equipment whether owned, leased, rented, borrowed or used on Work at the Project Site. If an individual Enrolled Party purchases insurance on their tools and equipment, such insurance shall contain a waiver of subrogation in favor of the City and County of Denver, its elected and appointed officials, agents, employees and volunteers and all other Enrolled Parties. If an individual Enrolled Party does not purchase such insurance, that Enrolled Party will hold harmless the City and County of Denver, its elected and appointed officials, agents, employees and volunteers and volunteers and other Enrolled Parties for loss or damage to its tools and equipment.

6.3 No Release; No Waiver of Immunity

The provision of the DEN ROCIP shall in no way be interpreted as relieving Contractor or subcontractors of any tier of any responsibility or liability under the Contract Documents, the DEN ROCIP insurance policies or applicable laws including, without limitation, Contractor's and subcontractor's responsibilities relative to indemnification and their obligation to exercise due care in the performance of the Work and to complete the Work in strict compliance with the Contract Documents. The parties hereto understand and agree that the City and County of Denver, its elected and appointed officials, agents, employees and volunteers are relying on, and do not waive or intend to waive by any provisions of this agreement, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 to 120, C.R.S., or otherwise available to DEN, its officers, officials and employees.

6.4 DEN Right to Withhold Payments

In addition to any other rights of withholding that DEN may have under the Contract Documents, DEN has the right to withhold any payments otherwise due to Contractor in the event of a failure by Contractor or any subcontractor to comply with the requirements of this Exhibit, the DEN ROCIP Insurance Manual or the DEN ROCIP Safety Manual. DEN may withhold from any payment owing to Contractor the costs of DEN ROCIP coverages if included in a request for payment. Such withholding by DEN shall not be deemed to be a default under the Contract. DEN shall withhold from Contractor the costs of DEN ROCIP coverages in an Enrolled Party's total payroll for the Work over the amount reported to DEN and/or the DEN ROCIP Administrator at time of enrollment.

6.5 DEN Remedies

Without limitation upon any of DEN's other rights or remedies, any failure of an Enrolled Party to comply with any provision of this Exhibit, the DEN ROCIP Insurance Manual, or the DEN ROCIP Safety Manual shall be deemed a material breach of the Contract, thereby entitling DEN, at its option, upon

notice to Contractor, to (1) suspend performance by Contractor and/or the offending subcontractor, without any adjustment to Contract Sum Payable or Contract Time, until there is full compliance, or (2) terminate this Contract for cause.

6.6 Off Site Storage

Unless otherwise provided in the Contract Documents, the property insurance provided by DEN shall not cover portions of the Work stored off the Site without written approval of DEN. Contractor shall be responsible for reporting such property or work if ownership has been transferred to DEN. If ownership rests with the Contractor, Contractor shall be responsible for obtaining insurance to protect its interests.

6.7 Partial Occupancy

Partial occupancy or use shall not commence until DEN insurer(s) providing Builders Risk and/or Property Insurance have consented to such partial occupancy or use by endorsement or otherwise. DEN and the Contractor shall take reasonable steps to obtain consent of the insurer(s) and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

6.8 DEN Right to Exclude Parties from the DEN ROCIP

DEN reserves the right to exclude any subcontractor from the DEN ROCIP, before or after enrollment by the subcontractor. If DEN elects to exclude a subcontractor from the DEN ROCIP, the Contractor will be responsible for ensuring the insurance coverages outlined in the Contractor's Subcontract Agreement are provided to DEN or the DEN ROCIP Administrator before the subcontractor can begin or resume Work on the Project.

6.9 DEN's Right to Modify or Discontinue DEN ROCIP Coverages

If DEN determines that modification or discontinuation of the DEN ROCIP is in the best interest of DEN, the Contractor and subcontractor will receive sixty (60) days advance written notice to secure and maintain such insurance as is required to provide replacement coverage comparable to that provided under the DEN ROCIP. Provided that the foregoing is not the result of any failure by the Contractor or any subcontractor to comply with the requirements of the Contract Documents, the DEN ROCP Insurance Manual or DEN ROCIP Safety Manual, the costs of such replacement insurance shall be deemed a cost of Work for which the Contractor shall be entitled to a Contract Adjustment, without any sum added thereto for Allowable Markup. The form, content, limits of liability, cost and the rating of the insurer(s) issuing such replacement coverage shall be subject to DEN's prior written approval.

7. Definitions

Certificate of Insurance:	A document providing evidence of coverage for a particular insurance policy or policies. This will include certificates issued to Enrolled Parties evidencing the coverage afforded under the DEN ROCIP and certificates issued to DEN evidencing additional coverage "Provided by Enrolled Parties"
DEN:	City and County of Denver and Denver International Airport
Contract:	The written agreement between DEN and Contractor describing the Work, contract terms and conditions, or a portion thereof; also includes a written agreement between a Contractor and any subcontractor as well as between subcontractors and their subcontractors of any tier.

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Contractor Insurance Cost:	The costs of ROCIP coverage are defined as the amount of Contractor's and eligible Subcontractors' of every tier reduction in insurance costs due to participation in the DEN ROCIP.
Rolling Owner Controlled Insurance Program (ROCIP):	A coordinated insurance program providing certain coverage, as defined herein, for DEN, Contractor and Enrolled Subcontractors, along with their Eligible Employees, performing Work at the Project Site.
Eligible Employees:	Employees of the Contractor and Enrolled Subcontractors who are not excluded from the ROCIP under the "Excluded Parties" definition.
Enrolled Parties:	The Contractor and those subcontractors that have submitted all necessary enrollment information and been accepted into the ROCIP as evidenced by the issuance of a Certificate of Insurance.
Excluded Parties:	Parties not covered by the ROCIP because of ineligibility or DEN explicit exclusion. No insurance coverage provided by DEN under the ROCIP shall extend to the activities or products of the following:
	• Any person or organization that fabricates or manufactures products, materials or supplies away from a Project Site with no direct onsite installation responsibility
	Exception: The ROCIP Insurer may agree to extend General Liability coverage only if the Lead Contractor has a written contract with the off-site fabricator or manufacturer to provide the pre-fabricated product. To consider extending coverage, the Insurer requires 30 days advance written notice to the ROCIP Administrator with details of the work/product and a copy of the contract between the Lead Contractor and the off-site fabricator or manufacturer. Approval must be obtained from the Insurer before enrolling in the ROCIP for General Liability coverage only.
	• Hazardous materials remediation, removal, or transportation companies and their consultants
	• Architects, engineers, surveyors and their consultants
	• Truckers, haulers, material dealers, vendors, suppliers, and others who merely transport, pick up, deliver or carry materials, personnel, parts or equipment or any other items or persons to or from a Project Site
	• Contractors, subcontractors and subconsultants who do not work at a Project Site
	• Employees of an Enrolled Party who either (i) do not work on-site or (ii) occasionally visit a Project Site to make deliveries, pick-up supplies or personnel, to perform supervisory or progress inspections, or for any other reason
	• Day labor employees (individuals working directly for the Contractor and not procured through a third party
	Page 17 of 19

	Exception: The ROCIP Insurer typically will accept including employees working for a contractor, or employed by temporary staffing agencies or professional employer organizations, as long as those employer-entities are enrolled as subcontractors to supply supplemental workforce.
Insured: (liability policies)	DEN, Contractor and Enrolled Parties and their Eligible Employees and any other party named in the insurance policies.
Insurers:	Those insurance companies providing the DEN ROCIP coverage. The insurers will be identified on the issued Certificate of Insurance and in the DEN ROCIP Insurance Manual.
Net Bid:	Contractor bids with insurance costs removed because of the obligation of any Enrolled Party to delete insurance costs for coverage provided by the ROCIP from its bid and all change orders. Net bids are subject to verification by the Administrator through the providing of contractors' rate and declaration pages from their Insurance policies.
ROCIP Administrator:	The DEN ROCIP Administrator will be identified in the DEN ROCIP Insurance Manual.
ROCIP Insurance Manual:	A reference document provided to Contractor and subcontractors of all tiers, which summarizes the terms and provisions of the DEN ROCIP and provides information about requirements and compliance.
ROCIP Safety Manual:	A reference document provided to Contractor and subcontractors of all tiers which contains workplace safety requirements of all Enrolled Parties.
Off Site Work:	Work performed away from the Project Site.
Payroll:	For purposes of the ROCIP only, refers to Unburdened Straight Time Payroll per Workers Compensation Class Code.
Policy Owner:	City and County of Denver and Denver International Airport
Project:	The Project as defined in the contract documents and as described in the Declarations of the DEN ROCIP insurance policies.
Project Site:	Means those areas designated in writing by DEN in a Contract document for performance of the Work and such additional areas as may be designated in writing by DEN for Contractors' use in performance of the Work. Subject to the ROCIP Insurer(s) written approval, the term "Project Site" shall also include: (1) field office sites, (2) property used for bonded storage of material for the Project approved by DEN, staging areas dedicated to the Project, and (4) areas where activities incidental to the Project are being performed by Contractor or subcontractors covered by the DEN ROCIP Worker's Compensation policy (if included), but excluding any permanent locations of any Enrolled Party. <i>Items 1 through 4 above must be approved by the ROCIP Insurer and</i>

listed on the DEN ROCIP insurance policies.

Subcontract:	The written agreement between Contractor and subcontractor, or between subcontractor and a lower tier subcontractor, describing the Work, subcontract terms and conditions, or a portion thereof.
Subcontractor:	Includes those persons, firms, joint venture entities, corporations, or other parties that enter into a Subcontract with Contractor to perform Work at the Project Site and any of these subcontractor's lower-tier subcontractors.
Work:	Operations, as fully described in the Contract and Subcontract, performed at the Project Site.

EXHIBIT D



TO: All Users of the City and County of Denver Prevailing Wage Schedules
FROM: Ryland Feno, Classification & Compensation Technician II
DATE: January 04, 2021
SUBJECT: Latest Change to Prevailing Wage Schedules

Please be advised prevailing wage rates for some building, heavy, highway, and residential construction trades have not been updated by the United States Department of Labor (DOL) since March 1, 2002. The Career Service Board, in their meeting held on April 21, 2011, approved the use of the attached supplemental wage rates until prevailing wage rates for these classifications of work are again published by the United States Department of Labor in accordance with the Davis-Bacon Act.

The effective date for this publication will be **Friday**, **January 01**, **2021** and applies to the City and County of Denver for **HIGHWAY CONSTRUCTION PROJECTS** in accordance with the Denver Revised Municipal Code, Section 20-76(c).

General Wage Decision No. CO20210009 Superseded General Decision No. CO20200009 Modification No. 0 Publication Date: 01/01/2021 (6 pages)

Unless otherwise specified in this document, apprentices shall be permitted only if they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor (DOL). The employer and the individual apprentice must be registered in a program which has received prior approval by the DOL. Any employer who employs an apprentice and is found to be in violation of this provision shall be required to pay said apprentice the full journeyman scale.

Attachments as listed above.

*Career Service Board approved to adjust all Davis Bacon classifications under \$13.00 to comply with the city's minimum wage. The effective date is August 15, 2019. See page 7 for reference.

Flatiron Constructors, Inc. Contract No. 202158849-00 Office of Human Resources 201 W. Colfax Ave. Dept. 412 | Denver, CO 80202 p: 720.913.5751 | f: 720.913.5720 www.denvergov.org/humanresources "General Decision Number: CO20210009 01/01/2021

Superseded General Decision Number: CO20200009

State: Colorado

Construction Type: Highway

Counties: Denver and Douglas Counties in Colorado.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date
0		01/01/2021	

* CARP9901-008 11/01/2019

	Rates	Fringes
CARPENTER (Form Work Only)	.\$ 26.50	10.32

ELEC0068-016 03/01/2011

Rates Fringes TRAFFIC SIGNALIZATION: Traffic Signal Installation Zone 1.....\$ 26.42 4.75%+8.68 Zone 2.....\$ 29.42 4.75%+8.68 TRAFFIC SIGNAL INSTALLER ZONE DEFINITIONS Zone 1 shall be a 35 mile radius, measured from the following addresses in each of the following cities: Colorado Springs - Nevada & Bijou Denver - Ellsworth Avenue & Broadway Ft. Collins - Prospect & College Grand Junction - 12th & North Avenue Pueblo - I-25 & Highway 50 All work outside of these areas shall be paid Zone 2 rates. _____ ENGI0009-008 05/01/2018 Rates Fringes POWER EQUIPMENT OPERATOR: (3)-Hydraulic Backhoe (Wheel Mounted, under 3/4 vds), Hydraulic Backhoe (Backhoe/Loader combination), Drill Rig Caisson (smaller than Watson 2500 and similar), Loader (up to and including 6 cu. yd.).....\$ 28.25 10.70 (3)-Loader (under 6 cu. yd.) Denver County.....\$ 28.25 10.70 (3)-Motor Grader (bladerough) Douglas County.....\$ 28.25 10.70 (4)-Crane (50 tons and under), Scraper (single bowl, under 40 cu. yd).....\$ 28.40 10.70 (4)-Loader (over 6 cu. yd) Denver County.....\$ 28.40 10.70 (5)-Drill Rig Caisson (Watson 2500 similar or larger), Crane (51-90 tons), Scraper (40 cu.yd and over),....\$ 28.57 10.70 (5)-Motor Grader (bladefinish)

Douglas County\$ 28.57 (6)-Crane (91-140 tons)\$ 29.55	10.70 10.70
SUCO2011-004 09/15/2011	
Rates	Fringes
CARPENTER (Excludes Form Work)\$ 19.27	5.08
CEMENT MASON/CONCRETE FINISHER Denver\$ 20.18 Douglas\$ 18.75	5.75 3.00
ELECTRICIAN (Excludes Traffic Signal Installation)\$ 35.13	6.83
FENCE ERECTOR (Excludes Link/Cyclone Fence Erection)\$ 13.02	3.20
GUARDRAIL INSTALLER\$ 12.89	3.20
HIGHWAY/PARKING LOT STRIPING:Painter Denver\$ 12.62 Douglas\$ 13.89	3.21 3.21
IRONWORKER, REINFORCING (Excludes Guardrail Installation)\$ 16.69 IRONWORKER, STRUCTURAL	5.45
(Includes Link/Cyclone Fence Erection, Excludes Guardrail Installation)\$ 18.22	6.01
LABORER Asphalt Raker\$ 16.29 Asphalt Shoveler\$ 21.21 Asphalt Spreader\$ 18.58 Common or General	4.25 4.25 4.65
Denver\$ 16.76 Douglas\$ 16.29 Concrete Saw (Hand Held)\$ 16.29 Landscape and Irrigation\$ 12.26 Mason Tender-	6.77 4.25 6.14 3.16
Cement/Concrete Denver\$ 16.96 Douglas\$ 16.29 Pipelayer	4.04 4.25
Denver\$ 13.55 Douglas\$ 16.30 Traffic Control (Flagger)\$ 9.55	2.41 2.18 3.05

Traffic Control (Sets Up/Moves Barrels, Cones, Install Signs, Arrow Boards and Place Stationary Flags)(Excludes		
Flaggers)\$	12.43	3.22
PAINTER (Spray Only)\$	16.99	2.87
POWER EQUIPMENT OPERATOR:		
Asphalt Laydown	00.67	0 70
Denver\$		8.72
Douglas\$	23.67	8.47
Asphalt Paver Denver\$	24 97	6.13
Douglas\$		3.50
Asphalt Roller	23.44	5.50
Denver\$	23 13	7.55
Douglas\$		6.43
Asphalt Spreader\$		8.72
Backhoe/Trackhoe	22.07	0.72
Douglas\$	23.82	6.00
Bobcat/Skid Loader\$		4.28
Boom\$		8.72
Broom/Sweeper		
Denver\$	22.47	8.72
Douglas\$		8.22
Bulldozer\$		5.59
Concrete Pump\$		5.21
Drill		
Denver\$	20.48	4.71
Douglas\$	20.71	2.66
Forklift\$	15.91	4.68
Grader/Blade		
Denver\$		8.72
Guardrail/Post Driver\$	16.07	4.41
Loader (Front End)		
Douglas\$	21.67	8.22
Mechanic		0 = 0
Denver\$		8.72
Douglas\$	23.88	8.22
Oiler Denver\$	22 72	8.41
		0.41 7.67
Douglas\$ Roller/Compactor (Dirt and	24.90	1.01
Grade Compaction)		
Denver\$	20 30	5.51
Douglas\$		4.86
Rotomill\$		4.41
Screed	- V • <i>L L</i>	1.17
Denver\$	22.67	8.38
Douglas\$		1.40

Tractor\$	13.13	2.95
TRAFFIC SIGNALIZATION: Groundsman		
Denver\$	17.90	3.41
Douglas\$	18.67	7.17
TRUCK DRIVER		
Distributor		
Denver\$	17.81	5.82
Douglas\$	16.98	5.27
Dump Truck		
Denver\$	15.27	5.27
Douglas\$	16.39	5.27
Lowboy Truck\$	17.25	5.27
Mechanic\$		3.50
Multi-Purpose Specialty &		
Hoisting Truck		0.15
Denver\$		3.17
Douglas\$	20.05	2.88
Pickup and Pilot Car		
Denver\$		3.77
Douglas\$		3.68
Semi/Trailer Truck\$	18.39	4.13
Truck Mounted Attenuator\$	12.43	3.22
Water Truck		
Denver\$	26.27	5.27
Douglas\$		2.58

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Office of Human Resources Supplemental Rates (Specific to the Denver Projects) Revised 08/21/2019)

Classification		Base	Fringe
Guard Rail Installer		\$13.00	\$3.20
Highway Parking Lot Striping:			
Painter		\$13.00	\$3.21
Ironworker (Ornamental)		\$26.05	\$12.00
Laborer	Removal of Asbestos	\$21.03	\$8.55
Laborer (Landscape & Irrigation)		\$13.00	\$3.16
Laborer: Traffic Control (Flagger)		\$13.00	\$3.05
Laborer: Stationary Flags(
excludes Flaggers)		\$13.00	\$3.22
Line Construction	Lineman, Gas Fitter/Welder	\$36.88	\$9.55
	Line Eq Operator/Line Truck Crew	\$25.74	\$8.09
Millwright		\$28.00	\$10.00
Pipefitter		\$30.45	\$12.85
Plumber		\$30.19	\$13.55
Power Equipment Operator			
(Tunnels Above and Below			
Ground, shafts and raises):	Group 1	\$25.12	\$10.81
	Group 2	\$25.47	\$10.85
	Group 3	\$25.57	\$10.86
	Group 4	\$25.82	\$10.88
	Group 5	\$25.97	\$10.90
	Group 6	\$26.12	\$10.91
	Group 7	\$26.37	\$10.94
Power Equipment Operator	Group 1	\$22.97	\$10.60
	Group 2	\$23.32	\$10.63
	Group 3	\$23.67	\$10.67
	Group 4	\$23.82	\$10.68
	Group 5	\$23.97	\$10.70
	Group 6	\$24.12	\$10.71
	Group 7	\$24.88	\$10.79
Truck Driver	Group 1	\$18.42	\$10.00
	Group 2	\$19.14	\$10.07
	Group 3	\$19.48	\$10.11
	Group 4	\$20.01	\$10.16
	Group 5	\$20.66	\$10.23
	Group 6	\$21.46	\$10.31
Truck Driver: Truck Mounted			
Attenuator		\$13.00	\$3.22

Go to <u>http://www.denvergov.org/Auditor</u> to view the Prevailing Wage Clarification Document for a list of complete classifications used.

EXHIBIT E

V. <u>SPECIAL CONDITIONS</u>

SC-1 CONSTRUCTION CONTRACT GENERAL CONDITIONS

The Construction Contract General Conditions which constitute a part of the Contract Documents are set forth in a separately published document, entitled "City and County of Denver, Department of Aviation and Department of Public Works, Standard Specifications for Construction, General Contract Conditions," 2011 Edition, the Table of Contents to which is bound herein (which may be informally referred to as the Yellow Book). The General Conditions book is available for purchase for \$12.00 per copy at the following locations during the business hours stated, Monday through Friday, excluding holidays:

Office of the Cashier Wellington E. Webb Municipal Office Building, 2nd Floor 201 West Colfax Avenue Denver, Colorado, USA 80202 7:30 a.m. to 4:30 p.m.

The General Conditions are also available on the City and County of Denver website at:

https://www.denvergov.org/content/denvergov/en/contract-administration/contractorresources/general-contract-conditions.html

SC-2 DRAWINGS AND SPECIFICATIONS TO BE FURNISHED BY THE CITY

The City will provide the following Contract Documents to the Contractor in electronic format at no expense to the Contractor:

Taxiway EE IFB Drawings Taxiway EE IFB Division 1 & Division 2 Specs TW EE Construction Safety and Phasing Plan

Additional copies of the foregoing documents will be furnished to the Contractor at the Contractor's expense. The Contractor will be responsible for supplying all subcontractors with copies of the Contract Documents at its expense.

If Sensitive Security Information ("SSI") is provided to the Contractor, the Contractor shall be required to comply with Department of Aviation, Standard Policies and Procedures No. 6003, "Contractor Protection of Sensitive Security Information," or its successor, and 49 C.F.R. § 1520, or its successor.

The City will not supply any copies of the General Contract Conditions to the Contractor at City expense.

SC-3 REVISIONS TO G.C. 201

The second sentence of General Condition 201 is amended to read: "The unit responsible for this management and control is the Airport Infrastructure Management Office under the supervision of the Senior Vice President for Maintenance and Airport Infrastructure Management."

SC-4 CITY LINE OF AUTHORITY AND CONTACTS

In accordance with General Condition 214, the City's line of authority for administration of this Contract is:

Flatiron Constructors, Inc. Contract No. 202158849-00 <u>Chief Executive Officer (CEO)</u>. Executive Office, 9th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249. Any reference to the Manager of Aviation shall also mean Chief Executive Officer, Department of Aviation (CEO).

<u>Executive Vice President – Chief Operating Officer (EVP-COO)</u> who reports to the CEO. Airport Infrastructure Management office, 9th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Senior Vice President - Airport Infrastructure Management (SVP-AIM)</u> who reports to the COO. Airport Infrastructure Management office, 10th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Director of Infrastructure and Quality Assurance</u>, reports to the SVP-AIM. The Project Manager reports to the Director of Infrastructure and Quality Assurance. Airport Infrastructure Management Division, 7th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Project Manager</u>, the City representative who has day to day administrative responsibility of this Contract, and who reports to the SVP-AIM. All notices, requests, pay applications (pursuant to G.C. 902), and other correspondence from the Contractor shall be sent to the assigned Project Manager unless otherwise provided in this Contract. The Project Manager for this Contract is: Brent Nichols, Airport Infrastructure Management Office, 7th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249, phone 303-342-2200.

The CEO may from time to time substitute a different City official as the designated "SVP-AIM" hereunder, and any such change will be effective upon the issuance of written notice to the Contractor which identifies the successor SVP-AIM. The SVP-AIM may from time to time change the assigned Project Manager, and any such change will be effective upon the issuance of written notice to the Contractor which identifies the successor Project Manager.

SC–5 CONTRACTOR PERFORMANCE; SUBCONTRACTING

With respect to General Condition 501, no more than ninety-five percent (95%) of the work may be subcontracted. If it is determined to be in the City's best interest, this percentage may be modified throughout the course of the project by the SVP-AIM.

SC–6 COOPERATION WITH OTHERS

The Technical Specifications describe the constraints on the physical work site areas. These descriptions are not exhaustive, and the Contractor is required to coordinate its activities and work as may be required to meet FAA or City requirements while performing work on DEN.

Without limiting the foregoing, the following contracts administered by the City involve or may involve work overlapping or adjoining the Work under this Contract and may be prosecuted concurrently with the Work performed under this Contract. There may also be other adjoining or overlapping contracts which are not listed.

Contract Number	Description
201732479	Runway 8-26 Pavement Rehabilitation
201846271	Runway 17R-35L Pavement Rehabilitation
201952248	Runway 17R-35L Pavement Rehabilitation, Package 2

SC–7 PROSECUTION AND COMPLETION OF THE WORK:

The Work to be performed under the Contract is described in the Technical Specifications and Contract Drawings. The Contractor shall complete the Work within 607 consecutive calendar days from Notice to Proceed.

The Work to be performed under the Contract may be divided into the Milestone Areas which are described in the Technical Specifications or Contract Drawings. The Contractor shall complete the work included within these areas within the number of days set forth by the Project Manager.

	Milestone	Date of Completion (or, days from NTP)
1.	Taxiway M Connection	242 calendar days from NTP
2.	Taxiway L Connection	242 calendar days from NTP
3.	Taxiway ED Connection	607 calendar days from NTP
4.	Substantial completion	607 calendar days from NTP

SC–8 LIQUIDATED DAMAGES

If the Contractor fails to achieve Substantial Completion of the Work within the Contract Time, the Contractor shall be liable to the City for liquidated damages at the rate of Five Thousand Dollars (\$5,000.00) per day until substantial completion is achieved.

	Milestone	Liquidated Damages, per day
1.	Taxiway M Connection	\$5000.00
2.	Taxiway L Connection	\$5000.00
3.	Taxiway ED Connection	\$5000.00
4.	Substantial completion	\$5000.00

Article IV of the Contract and General Condition 602 cover payment and withholding of liquidated damages.

SC–9 FACILITY SECURITY AND PERSONNEL ACCESS

The Contractor shall conduct all its activities at the Airport in compliance with the Airport security system rules and regulations, which are administered by the Airport Operations Division. The Contractor shall obtain the proper access authorizations for its employees, subcontractors and suppliers (i.e., Badges and Permits), and shall be responsible for such persons' compliance with all the Airport rules and regulations. A copy of the Contractors' section of the Airport Security rules and regulations are available for Contractor review at the Airport Access Services Office, Concourse A East Subcore, 4th Level. Persons regularly entering the construction areas must obtain personnel access badges from the Airport Access Services Office and must display badges, at all times, upon entering the construction, restricted and sterile areas of the airport. Any employee, subcontractor or supplier who violates such rules may be subject to revocation of his access authorization, including authorization for access to the construction site and all other restricted and sterile areas.

The security status of the Airport is subject to change without notice. These contract Special Conditions are applicable to the current security status of the Airport. Should the security status of the Airport change at any time during the term of this Contract, a written notice shall be issued to the Contractor detailing all applicable security modifications from the airport's current security status. The Contractor shall take **immediate steps** to comply with those security modifications as directed in the written notice.

If these security modifications involve any additional project cost, the Contractor shall submit a Contractor Change Request in accordance with the General Conditions for the additional cost. The Contractor Change Request shall outline in specific detail the effects of the security modifications on the Contractor's performance of the Contract, and shall provide a detailed cost breakdown for each item for which the Contractor is requesting reimbursement.

The Contractor shall return to the City, at contract completion or termination, or upon demand by the City, all access keys issued to it by the City to all areas of the Airport. If the Contractor fails to return any such key or keys at contract completion or termination or upon demand by the City, the Contractor shall be liable to the City for all the City's costs, including the City's labor costs for employees, incurred in recoring doors and any other work which is required to prevent compromise of the Airport security system. In order to collect such costs hereunder, the City may withhold funds in such amount from any amounts due and payable to the Contractor under this Contract.

The construction of all the Project / Task Items that involve the breaching of any airport perimeter security boundary or continued access to restricted access rooms or areas will require the posting of authorized contract security personnel to maintain required security controls. The Contractor's Total Contract Bid Amount shall include the cost of providing security services to maintain control and supervision of any and all airport perimeter security boundary breaches and for the duration of work activities where access to restricted areas is required and until the airport perimeter security boundaries are reestablished.

When security boundaries are opened for any reason, the Contractor must maintain one hundred percent (100%) control and supervision for the entire time that the openings are present to prevent unauthorized access to the secure / restricted access areas.

THE IMPORTANCE OF THIS SPECIAL CONDITION CANNOT BE OVER-EMPHASIZED. SEVERE FINANCIAL PENALTIES AS WELL AS CONTRACT TERMINATION COULD RESULT IF AIRPORT PERIMETER SECURITY REQUIREMENTS ARE NOT STRICTLY FOLLOWED. THE REQUIREMENT TO PROVIDE ONE HUNDRED PERCENT (100%) CONTROL AND SUPERVISION OF BREACHES IN THE AIRPORT'S PERIMETER SECURITY BOUNDARY IS ABSOLUTE. AT NO TIME, DURING WORK AND NON-WORK HOURS SHALL ANY BREACHES IN THE AIRPORT'S SECURITY PERIMETER BE UNSUPERVISED AND / OR UNSECURED.

For off-hours of construction, the Contractor may choose to erect a temporary wall to close all perimeter openings. The wall construction shall be of sufficient materials and strength to prevent access to the airport's Sterile/Restricted Areas. The Contractor shall submit for review and approval, the details and materials for the temporary closure of security perimeter breaches for review and approval.

The Contractor will provide contract security guard services to maintain supervision of these openings. The security services must provide coverage to allow for lunch breaks, comfort breaks and etc. The security services **must** be obtained from the following contract security guard company: HSS 900 S. Broadway, Suite 100 Denver, Colorado 80209

DEN Contact: Glenn Spies (303) 342-4323

All security guards provided for this project must have a Denver Airport SIDA Badge.

The DEN Security Guard Contractor may change between the bidding or Bid phase of this contract from Notice to Proceed to closure of all security perimeter breaches. The Contractor shall maintain a contractual relationship with the Security Guard Contractor holding the most current contract with Denver International Airport.

The Contractor shall continue to provide security of these areas until such time that the breaches in the airport's security perimeter have been permanently secured.

The Contractor shall submit a written security plan for approval to the Director of Airport Security prior to the start of construction on any work where a breach of the perimeter security boundaries is required.

SC-10 CONSTRUCTION ACCESS

The work site is located east of Taxiway M and north of Taxiway ED. The Contractor shall have access to the work site via Gate 4. The Contractor is responsible for ensuring all of the Contractor's and Subcontractor's personnel have the ability to access and locate the areas of work where the scope is to be performed without additional escorting or supervision from DEN.

The City will not provide parking spaces for the Contractor's employees or subcontractor employees at the Airport. Arrangements for transportation and parking for all of its and its subcontractors' employees will be the responsibility of the Contractor. The Total Contract Bid Amount or Contract Amount shall include any and all costs associated with the Contractor's and subcontractors' employee parking. Information about parking facilities and charges is available from the Airport Parking Office. Refundable deposits are required for all parking passes.

Unless specifically required by the Contract Documents, the Contractor shall install no fences or other physical obstructions on or around any project work area without the approval of the City.

SC-11 VEHICLE PERMITTING

Vehicle access on the Airport Operation Area ("AOA") is controlled by and requires permission from the Airport Access Services Office. It is not anticipated that the Contractor will need to operate vehicles on the AOA to perform the Work. Only direct construction support vehicles and/or equipment will be allowed in the contractor's work areas or sites.

SC-12 VENDORS AND SUPPLIERS

The Contractor shall provide the Project Manager's office with a list of its equipment/material vendors and suppliers. Vendors or suppliers shall access the construction work areas via the Contractor's access route, described in SC-10 above. All delivery vehicles are subject to search.

SC-13 COMMUNICATION DEVICES

Any site communications devices, mobile communication devices or internet data devices used at DEN must be approved by DEN Technologies.

SC-14 USE, POSSESSION OR SALE OF ALCOHOL OR DRUGS

The Contractor and its officers, agents, and employees shall cooperate and comply with the provisions of Executive Order No. 94 and Attachment A thereto concerning the use, possession, or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in the City's barring the Contractor from City facilities or participating in City operations.

SC-15 ATTORNEYS' FEES

Colorado Revised Statute 38-26-107 requires that in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to the Contractor sufficient funds to insure the payment of any such claims. Should the City and County of Denver be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, Contractor agrees to pay to the City its costs and a reasonable attorney's fee. Because the City Attorney Staff does not bill the City for legal services on an hourly basis, Contractor agrees a reasonable fee shall be computed at the rate of two hundred dollars per hour of City Attorney time.

SC–16 INSURANCE REQUIREMENTS

In accordance with the provisions of Title 16 of the General Conditions, the minimum insurance requirements for this contract are set forth in Section II-14 of the Instructions to Bidders. The Contractor specifically agrees to comply with each condition, requirement or specification set forth in the attachment for each required coverage during all periods when the required coverages are in effect.

Contractor and sub-contractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, required insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or sub-contractors.

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

The City and County of Denver in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this Contract by the Contractor, his agents, representatives, employees or sub- contractors. The Contractor shall assess its own risks as it deems appropriate and/or prudent, maintain higher limits and/or broader coverages. The Contractor is not relieved of any liability or other obligations assumed or pursuant to the Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration or types.

Contractor shall furnish the City and County of Denver with certificates of insurance (ACORD form or equivalent approved by CCD) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the City before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure

to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of the Contract. All insurance coverages for sub-contractors shall be subject to the minimum requirements identified in the Exhibit. All sub-contractors' certificates and endorsements shall be received and approved by the Contractor before work commences. The City reserves the right to request copies of these certificates at any time.

All certificates required by this Contract shall be sent directly to <u>ContractAdminInvoices@flydenver.com</u>. The City project/contract number and project description shall be noted on the certificate of insurance. The City reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.

The parties hereto understand and agree that the City and County of Denver, its officers, officials and employees, are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 - 120, C.R.S., or otherwise available to the City and County of Denver, its officers, officials and employees.

SC-17 SUBCONTRACTOR RELEASES

The release form referred to in General Condition 907 is attached to this Contract. It is entitled "Denver International Airport Partial Release."

SC-18 ADDITIONAL AFFIRMATIVE ACTION REQUIREMENTS, FEDERAL PROVISIONS

This contract is subject and subordinate to the terms, reservations, restrictions, and conditions of any existing or future agreements between the City and the United States, the execution of which has been or may be required as a condition precedent to the transfer of federal rights or property to the City for airport purposes, and the expenditure of federal funds for airport purposes. The "Federal Requirements" section attached hereto is made a part of this Contract.

SC-19 ESTIMATED QUANTITIES OF UNIT PRICED ITEMS

The "total estimated quantity" of each unit price item as stated on the bid schedules shall be the estimated quantity which is used to determine the percentage of change in such item for purposes of G.C. 1104.7.

SC-20 REVISIONS TO G.C. 1102

G.C. 1102.2 is amended by replacing the phrase "Change Request" in all its occurrences in such G.C. with the phrase "Change Notice."

G.C. 1102.3 is amended by replacing the phrase "Field Order/Change Order Directive" in all its occurrences in such G.C. with the phrase "Change Order Directive."

SC-21 LISTING OF ACCEPTABLE MANUFACTURERS

The Technical Specifications list "Acceptable Manufacturers" for certain products. Such listing identifies manufacturers of certain products which have been determined by a preliminary review to be able to meet the basic product and/or system technical requirements. The listing is not intended to provide a blanket endorsement or acceptance of the manufacturer's specified products or product line. All products from listed manufacturers must meet the detailed requirements of the Technical Specifications. Products that do not meet all detailed Technical Specifications are not acceptable and will be rejected, regardless of whether the manufacturer was listed as "acceptable." The Contractor is responsible for determining the acceptability of all products under the Technical Specifications prior to submission of products for

approval.

SC-22 ACCESSIBLE PARKING SPACES, ACCESS AISLES AND ROUTES OF TRAVEL

If any Work is performed in or adjacent to parking facilities at the Airport, the Contractor is responsible for compliance with this SC-30. "Accessible" parking spaces and access aisles as used in this SC-30 mean parking spaces and access aisles which are accessible for, and reserved for use by, persons with disabilities. These parking spaces and access aisles are designed and built to standards established by federal regulations implementing the Americans with Disabilities Act of 1990 ("ADA"), and are marked by signage. "Accessible routes of travel" as used herein means routes through parking facilities which comply with ADA accessibility standards, including degree of slope and absence of obstructions.

Accessible routes of travel and accessible parking spaces and access aisles must be kept free of obstructions and construction debris at all times. No accessible parking spaces or access aisles or accessible routes of travel shall be relocated, blocked or rendered unusable unless the contractor has obtained specific advance approval in writing for such actions from the airport's ADA Compliance Officer.

When prosecution of the Work requires that accessible spaces be temporarily blocked, those accessible spaces and their access aisles shall be temporarily relocated to another location as close as possible to an accessible building entrance. Temporary signage that identifies these parking spaces and access aisles as reserved for the handicapped shall be installed, and the accessible route shall be clearly marked as required.

Before blocking or relocating accessible parking spaces or accessible routes of travel, the contractor must obtain written approval from the DEN ADA Compliance Officer, by submitting a completed request form, which will be provided to the Contractor by the Project Manager at the preconstruction meeting if it is not included as a standard form in Section 019990 of the Technical Specifications. The request shall include the location of alternative spaces and/or routes, and specifications of the temporary signage to be used. Work shall not proceed without this approval.

If a vehicle is parked in any accessible space which is either temporary or approved to be relocated, the contractor will not remove signage or take any other action which would allow the access aisle for such parking space to be blocked. Such actions must be postponed until the parking space is no longer occupied.

SC-23 SUBCONTRACTOR PAYMENTS AND SUBCONTRACTOR RELEASES – REQUIRED USE OF THE B2G CONTRACT MANAGEMENT SYSTEM

The Contractor is required to use the City B2G Contract Management System to report all subcontractor payments and shall adhere to the City's Procedure for Reporting Subcontractor Payments. It is the Contractor's obligation to ensure that complete subcontractor information is entered into the B2G System prior to submission of the first application for payment in order to avoid any delays in payment. The Contractor shall, prior to the submission of each subsequent invoice, ensure payments to subcontractors have been entered into the B2G System, including subcontractor confirmation of amount of payment received, for services performed during the prior billing period.

SC-24 PAYMENTS TO CONTRACTORS

The Contractor recognizes and agrees that applications for payment shall be submitted using the Textura[®] Payment Management System (PPM System), which will also be the payment mechanism to

disburse payments to sub-contractors used on this Project. For more information, please refer to Division I, Technical Specifications.

The Contractor further agrees that, to the fullest possible within the TPM System, the City shall be entitled to all non-Confidential records, reports, data and other information related to the project that are available to Contractor through the TPM System, including, but not limited to, information related to Contractor and subcontractor billings. To that end, Contractor agrees that it will activate any available settings within the TPM System that are necessary to grant the City access to such non-Confidential information related to the contract and the project. Applications for payment shall be based on the Contract Unit Prices or the approved Schedule of Values described in GC 903.1

In accordance with General Contract Condition 902, PAYMENT PROCEDURE, the party(ies) responsible for review of all Pay Applications shall be:

Agency/Firm

DEN Division CA DEN Division PM DEN Division Director DEN Contract Services CA CCD Denver Prevailing Wage

In accordance with General Contract Condition 906, APPLICATIONS FOR PAYMENT, each Application submitted shall include the following:

- 1. The estimate of Work completed shall be based on the approved schedule of values or unit prices, as applicable, and the percent of the Work complete.
- 2. Each Application for Payment shall include each and every independent subcontractor's payroll information including pay dates and pay amounts.
- 3. The Contractor shall also submit to the Auditor and other appropriate officials of the City in a timely fashion, information required by General Contract Condition 1004, REPORTING WAGES PAID.

In accordance with General Contract condition 907, RELEASES AND CONTRACTORS CERTIFICATION OF PAYMENT, Applications for Payment must be accompanied by a completed Partial or Final Claim Release Form, as appropriate, from EACH subcontractor and supplier, <u>AND</u> the Contractor's Certification of Payment Form.

EXHIBIT F

City and County of Denver





DEPARTMENT OF AVIATION DEPARTMENT OF PUBLIC WORKS

STANDARD SPECIFICATIONS FOR CONSTRUCTION GENERAL CONTRACT CONDITIONS

2011 Edition

Statement

The City and County of Denver does not warrant or represent the accuracy or timeliness of the information contained in this page or any of its constituent pages and the information presented is for instructional purposes and illustration only and is not intended to be specific advice, legal or otherwise. The City has made every effort to provide accurate up-to-date information, however this database is dynamic and errors can occur. The City and County of Denver shall not be held responsible for errors or omissions nor be liable for any special consequential or exemplary damages resulting, in whole or in part, from any viewer(s)' uses of, or in reliance upon, this material.

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Liberty Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned <u>Flatiron Constructors, Inc.</u>, a corporation organized under the laws of the State of <u>Delaware</u>, hereinafter referred to as the "Contractor" and <u>SEE ATTACHMENT A</u>, a corporation organized under the laws of the State of <u>SEE ATTACHMENT A</u>, and authorized to transact business in the State of Colorado, hereinafter referred to as Surety, are held and firmly bound unto the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "CITY", in the penal sum of FORTY-TWO MILLION, FOUR HUNDRED FIVE THOUSAND, SIX HUNDRED FORTY-THREE AND 90/100 Dollars (\$42,405,643.90) lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WHEREAS, the above Contractor has, as of the date of execution listed on the contract signature page, entered into a written contract with the City for furnishing all labor, materials, equipment, tools, superintendence, and other facilities and accessories for the construction of 202158849, Taxiway EE Construction, Denver International Airport, in accordance with the Technical Specifications, Contract Drawings and all other Contract Documents therefor which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, THEREFORE, the condition of this performance bond is such that if the Contractor:

- 1. Promptly and faithfully observes, abides by and performs each and every covenant, condition and part of said Contract, including, but not limited to, its warranty provisions, in the time and manner prescribed in the Contract, and
- 2. Pays the City all losses, damages (liquidated or actual, including, but not limited to, damages caused by delays in the performance of the Contract), expenses, costs and attorneys' fees, that the City sustains resulting from any breach or default by the Contractor under the Contract, then this bond is void; otherwise, it shall remain in full force and effect.

IN ADDITION, if said Contractor fails to duly pay for any labor, materials, team hire, sustenance, provisions, provender, or any other supplies used or consumed by said Contractor or its subcontractors in its performance of the work contracted to be done or fails to pay any person who supplies rental machinery, tools, or equipment, all amounts due as the result of the use of such machinery, tools, or equipment in the prosecution of the work, the Surety shall pay the same in an amount not exceeding the amount of this obligation, together with interest as provided by law.

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

(End of Page)

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this _____ day of _____. 20_____

Attest:

Kevin McCormick, Division Finance Manager



Flatiron Constructors, Inc

CONTRACTOR

Bv

-President-Grant Johns, District Operations Manager

See Attachment A

SURETY

By: See attachment A

Attorney-in-Fact

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

CITY AND COUNTY OF DENVER

Signatures by CEO, CAO and the Mayor will be provided later and shall be fully incorporated herein By:_____ MAYOR

By:

Chief Executive Officer Denver International Airport

APPROVED AS TO FORM:

KRISTIN M. BRONSON, Attorney for the City and County of Denver

By:

Assistant City Attorney

ATTACHMENT A

BOND NUMBERS:	Liberty Bond No.:	015214610
	Travelers Bond No.:	107433031
	F&D/Zurich Bond No.:	9374494
	Federal Bond No.:	K40399689
	Continental Bond No.:	30138062
	Berkshire Bond No.:	47-SUR-300033-01-0556

Liberty Mutual Insurance Company, a Massachusetts Corporation Travelers Casualty and Surety Company of America, a Connecticut corporation Fidelity and Deposit Company of Maryland, a Illinois corporation Zurich American Insurance Company, a New York corporation Federal Insurance Company, an Indiana corporation The Continental Insurance Company, a Pennsylvania Corporation Berkshire Hathaway Specialty Insurance Company, a Nebraska Corporation

Liberty Mutual Insurance Company – A.M. Best Rating A XV 175 Berkeley Street, Boston, MA 02116 Mailing Address for Notices: Gretchen Eck, Senior Surety Claims Counsel 2815 Forbs Avenue, Suite 102 Hoffman Estates, IL 60192

Bond No. 015214610 Travelers Casualty and Surety Company of America – A.M. Best Rating A++ XV Construction Services, One Tower Square, Hartford, CT 06183 Bond No. 107433031

Fidelity and Deposit Company of Maryland Zurich American Insurance Company - A.M. Best Rating A+ XV 1299 Zurich Way, 5th Floor, Schaumburg, IL 60196 Bond No. 9374494

Federal Insurance Company – A.M. Best Rating A++ XV 202B Hall's Mill Road, Whitehouse Station, NJ 08889 Bond No. K40399689

The Continental Insurance Company – A.M. Best Rating A XV 151 N Franklin Street, Chicago, IL 60606 Bond No. 30138062

Berkshire Hathaway Specialty Insurance Company – A.M. Best Rating A++ XV 1314 Douglas Street, Suite 1400, Omaha, NE 68102 Bond No. 47-SUB-300033-01-0556

By:

Elliott w Wolffe, Attorney-In-Fact

Jurano Witness: < John F. Surano

Liberty <u>Mutual</u>.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

> Liberty Mutual Insurance Company The Ohio Casualty Insurance Company West American Insurance Company

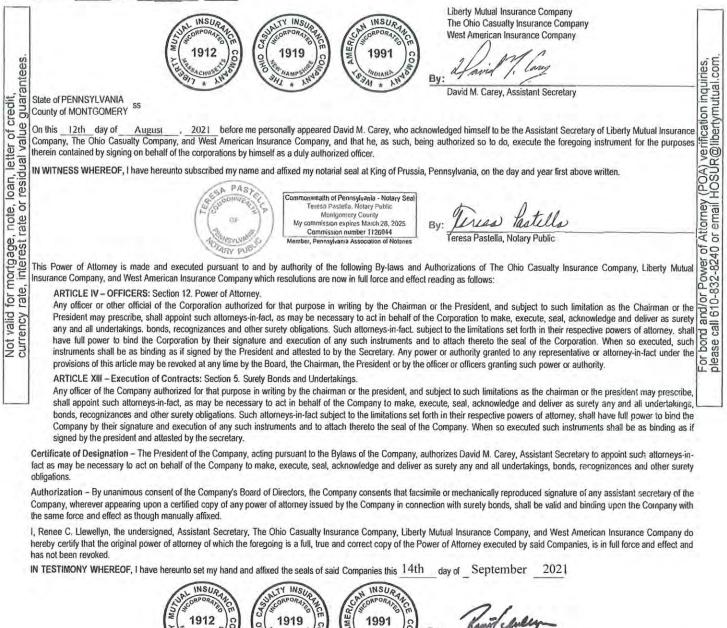
Certificate No: 8206136-974450

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, <u>Charo J.</u> <u>Rosemond</u>, Elliott W. Wolffe, James Baldassare, Jr., John F. Surano, Krista A. Burke, Lisa M. Scavetta, Maria L. Spadaccini, Nicholas F. Walsh, Sherryanne M. DePirro

all of the city of <u>Saddle Brook</u> state of <u>NJ</u> each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 12th day of August , 2021 .



By:

SM *

Renee C. Llewellyn, Assistant Secretary

LMS-12873 LMIC OCIC WAIC Multi Co 02/21



LIBERTY MUTUAL INSURANCE COMPANY

FINANCIAL STATEMENT - DECEMBER 31, 2020

Liabilities

Assets		
Cash and Bank Deposits	\$2,058,007,542	
*Bonds — U.S Government	2,209,760,437	
*Other Bonds	15,902,755,586	
*Stocks	18,517,107,230	
Real Estate	193,169,809	
Agents' Balances or Uncollected Premiums	6,970,170,469	
Accrued Interest and Rents	118,399,147	
Other Admitted Assets	12,079,597,645	

Total Admitted Assets \$58,048,967,865

Liabilities	
Unearned Premiums	\$8,448,706,991
Reserve for Claims and Claims Expense	23,879,216,613
Funds Held Under Reinsurance Treaties	343,068,613
Reserve for Dividends to Policyholders	, 1,192,716
Additional Statutory Reserve	77,397,000
Reserve for Commissions, Taxes and	
Other Liabilities	6,279,510,804
Total	\$39,029,092,737
Special Surplus Funds \$178,155,1	02
Capital Stock 10,000,0	75
Paid in Surplus 10,945,045,2	14
Unassigned Surplus 7,886,674,7	37
Surplus to Policyholders	19,019,875,128
Total Liabilities and Surplus	\$58,048,967,865



* Bonds are stated at amortized or investment value; Stocks at Association Market Values. The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2020, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 25th day of March, 2021.

Amiholajewski.

Assistant Secretary



Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Elliott W. Wolffe of SADDLE BROOK, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and

acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

City of Hartford ss.

Robert L. Raney, Senior Vice President

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



By:

Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Senior Vice President, any Senior Vice President, any Senior Vice President, any Senior Vice President, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 14th day of September 2021



Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880. Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2020

CAPITAL STOCK \$ 6,480,000

ASSETS		LIABILITIES & SURPLUS		
CASH AND INVESTED CASH BONDS STOCKS INVESTMENT INCOME DUE AND ACCRUED OTHER INVESTED ASSETS PREMIUM BALANCES NET DEFERRED TAX ASSET REINSURANCE RECOVERABLE RECEIVABLES FROM PARENT, SUBSIDIARIES AND AFFILIATES OTHER ASSETS	\$ 239,403,348 3,831,156,661 109,074,035 36,856,709 4,970,512 277,653,788 55,188,715 32,553,518 34,876,347 4,155,794	UNEARNED PREMIUMS LOSSES LOSS ADJUSTMENT EXPENSES COMMISSIONS TAXES, LICENSES AND FEES OTHER EXPENSES CURRENT FEDERAL AND FOREIGN INCOME TAXES REMITTANCES AND ITEMS NOT ALLOCATED AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS POLICYHOLDER DIVIDENDS PROVISION FOR REINSURANCE ADVANCE PREMIUM CEDED REINSURANCE NET PREMIUMS PAYABLE RETROACTIVE REINSURANCE RESERVE ASSUMED OTHER ACCRUED EXPENSES AND LIABILITIES TOTAL LIABILITIES CAPITAL STOCK PAID IN SURPLUS OTHER SURPLUS TO POLICYHOLDERS	\$ 1,121,070,380 1,003,200,666 163,346,678 40,805,693 13,561,421 42,508,558 4,865,484 8,646,391 42,228,250 12,353,304 7,930,280 1,867,512 63,102,972 800,763 568,668 \$2,534,855,020 \$6,480,000 433,803,760 1,650,750,847 \$2,091,034,607	
TOTAL ASSETS	\$ 4,625,889,627	TOTAL LIABILITIES & SURPLUS	\$4,625,889,627	

STATE OF CONNECTICUT)
COUNTY OF HARTFORD) SS.
CITY OF HARTFORD)

MICHAEL J. DOODY, BEING DULY SWORN, SAYS THAT HE IS VICE PRESIDENT - FINANCE, OF TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT STATEMENT OF THE FINANCIAL CONDITION OF SAID COMPANY AS OF THE 31ST DAY OF DECEMBER, 2020.

VICE PRESIDENT - FINANC

SUBSCRIBED AND SWORN TO BEFORE ME THIS 26TH DAY OF MARCH, 2021



SUSAN M. WEISSLEDER Notary Public My Commission Expires November 30, 2022

NOTARY PUBLIC

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint, Krista A. BURKE, Charo J. ROSEMOND, Maria L. SPADACCINI, Sherryanne M. DEPIRRO, Nicholas F. WALSH, Lisa M. SCAVETTA, Elliott W. WOLFFE, James BALDASSARE, JR. And John F. SURANO, of Saddle Brook, New Jersey, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety.

and as its act and deed: any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents. shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York, the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons. The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 28th day of July A.D. 2020.



ATTEST. ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: Robert D. Murray Vice President

Saun & Brown

By: Dawn E. Brown

Secretary

State of Maryland

County of Baltimore

On this 28th day of July, 2020, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, Robert D. Murray, Vice President and Dawn E. Brown, Secretary of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



stance a. Dum

Constance A. Dunn, Notary Public My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, <u>Attorneys-in-Fact</u>. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF. I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this <u>14th</u> day of September <u>, 2021</u>.



Brues Hodges

Brian M. Hodges, Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims 1299 Zurich Way Schaumburg, IL 60196-1056 www.reportsfclaims@zurichna.com 800-626-4577 DocuSign Envelope ID: 25267642-AE1F-41D6-A122-FF1E8CB2CB63

ZURICH AMERICAN INSURANCE COMPANY COMPARATIVE BALANCE SHEET 4 WORLD TRADE CENTER, 150 GREENWICH STREET, NEW YORK, NY 10007 As of December 31, 2020 and December 31, 2019

		12/31/2020	-	12/31/2019
Assets				o and a subscription
Bonds	\$	15,696,060,158	s	16,780,375,969
Preferred Stock				
Common Stock		2,964,630,407		3,121,559,258
Real Estate		1,294,160,876		1,273,640,596
Other Invested Assets		1,435,120,966		1,185,313,467
Derivatives		178,175		21,358
Short-term Investments		285,002		14,532,665
Receivable for securities		809,339		114,199,089
Cash and cash equivalents		526,475,686		42,548,382
Securities lending reinvested collateral assets		105,614,095		55,769,285
Employee Trust for Deferred Compensation Plan		122,225,149	-	129,612,266
Total Cash and Invested Assets	S	22,145,559,853	\$	22,717,572,333
Premiums Receivable	\$	5,318,928,254	s	4,775,851,073
Funds Held with Reinsurers		99,875		97,862
Reinsurance Recoverable		1,248,855,148		1,497,744,413
Accrued Investment Income		118,531,136		127,170,427
Federal Income Tax Recoverable		507,200,404		565,755,651
Due from Affiliates		92,277,523		204,233,875
Other Assets		559,476,243		527,556,278
Total Assets	S	29,990,928,434	\$	30,415,981,911
Linbilities and Policyholders' Surplus				
Liabilities:				
Loss and LAE Reserves	\$	12,295,705,961	\$	12,626,869,059
Unearned Premium Reserve		3,952,940,831		3,845,794,904
Funds Held with Reinsurers		554,226,440		385,953,985
Loss In Course of Payment		1,351,312,377		1,442,194,686
Commission Reserve		119,930,116		124,215,143
Federal Income Tax Payable		34,772,832		
Remittances and Items Unallocated		432,727,110		147,106,142
Payable to parent, subs and affiliates		273,601,687		294,896,500
Provision for Reinsurance		175,327,995		110,765,261
Ceded Reinsurance Premiums Payable		1,591,358,027		1,821,418,177
Securities Lending Collateral Liability		105,614,095		55,769,285
Other Liabilities		1,922,304,215		1,887,566,082
Total Liabilities	S	22,809,821,689	\$	22,742,549,225
Policyholders' Surplus:				
Common Capital Stock	5	5,000,000	S	5,000,000
Paid-In and Contributed Surplus		4,394,131,321	*	4,394,131,321
Surplus Notes				100 110 1001
Special Surplus Funds		9,672,000		2,910,000
Cumulative Unrealized Gain		192,450,057		118,847,749
Unassigned Surplus		2,579,853,368		3,152,543,616
Total Policyholders' Surplus	S	7,181,106,746	\$	7,673,432,686

I, LAURA J. LAZARCZYK, Corporate Secretary of ZURICH AMERICAN INSURANCE COMPANY do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company, on the 31st day of December, 2020, according to the best of my information, knowledge and belief.

ocuSigned by: Laura J. Lazarczyk **Corporate Secretary** } SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2021.



State of Illinois

County of Cook

Notary public

DocuSign Envelope ID: 25267642-AE1F-41D6-A122-FF1E8CB2CB63

THE FIDELITY AND DEPOSIT COMPANY

OF MARYLAND 1299 Zurich Way Schaumburg, IL 60196

Statement of Financial Condition As Of December 31, 2020

ASSETS

Bonds\$	262,624,334
Stocks	19,715,392
Cash and Short-Term Investments	3,219,781
Reinsurance Recoverable	17,293,466
Federal Income Tax Recoverable	114,253
Other Accounts Receivable	29,083,530
TOTAL ADMITTED ASSETS\$	332,050,756

LIABILITIES, SURPLUS AND OTHER FUNDS

Reserve for Taxes and Expenses	539,588
Ceded Reinsurance Premiums Payable	43,847,005
Remittances and Items Unallocated	0
Payable to parents, subs and affiliates	0
Securities Lending Collateral Liability	0
TOTAL LIABILITIES	44,413,593
Capital Stock, Paid Up \$ 5,000,000	
Surplus	
Surplus as regards Policyholders	287,637,163
TOTAL\$	332,050,756

Securities carried at \$165,065,329 in the above statement are deposited with various states as required by law.

Securitics carried on the basis prescribed by the National Association of Insurance Commissioners. On the basis of market quotations for all bonds and stocks owned, the Company's total admitted assets at December 31, 2020 would be \$346,439,970 and surplus as regards policyholders \$302,026,377.

I, LAURA J. LAZARCZYK, Corporate Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company on the 31st day of December, 2020.

DocuSigned by aura J. Lazarczy 20560847137480

Corporate Secretary

State of Illinois City of Schaumburg SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2021.

Paradaaaaaaa		
RYAN HORGAN	In 11	
Official Seal	The the	
Notary Public - State of Illinois	Notary	Public
My Commission Expires Dec 10, 2024	// //	
	V V	



Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company Westchester Fire Insurance Company | ACE American Insurance Company

Know All by These Presents, that FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint James Baldassare Jr., Krista A. Burke, Sherryanne M. DePirro, Charo J. Rosemond, Lisa M. Scavetta, Maria L. Spadaccini, John F. Surano, Nicholas F. Walsh and Elliott W. Wolffe of Saddle Brook, New Jersey

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than ball bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY have each executed and attested these presents and affixed their corporate seals on this 29th day of July, 2020.

Dawn M. Chlores

Davin M. Chloros, Assistant Secretary



SS.

AtraAte Stephen M. Ilaney, Vice Presider



STATE OF NEW JERSEY

County of Hunterdon

On this 29th day of July, 2020 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros and Stephen M. Haney, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros and Stephen M. Haney, being by me duly sworn, severally and each for herself and himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal



KATHERINE J. ADELAAR NOTARY PUBLIC OF NEW JERSEY No. 2316685 Commission Expires July 18, 2024

Hut A ade Norary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

- "RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):
 - (1) Each of the Chairman, the President and the Vice Fresidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
 - (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
 - (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorneyin-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specification of one or more particular Written Commitments.
 - (4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in stach written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
 - (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be aviated by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
- (ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this 14th day of September 2021



Jawn m. Chiard

Down M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT: Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com

FEDERAL INSURANCE COMPANY

STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

December 31, 2020

(in thousands)

LIABILITIES AND ASSETS SURPLUS TO POLICYHOLDERS Cash and Short Term Investments (247,647) Outstanding Losses and Loss Expenses s \$ 7,823,012 1,421,176 2,145,775 United States Government, State Reinsurance Payable on Losses and Expenses and Municipal Bonds 4,277,332 Unearned Premiums Other Bonds 5,455,272 Ceded Reinsurance Premiums Payable 261,276 Stocks 567.832 Other Liabilities 551,641 Other Invested Assets 1,207,053 TOTAL INVESTMENTS 11,259,842 TOTAL LIABILITIES 12,202,880 Investments in Affiliates: Capital Stock 20,980 Great Northern Ins. Co. 404,889 Paid-In Surplus 2,711,474 349,615 182,191 186,189 Vigilant Ins. Co. Chubb Indemnity Ins. Co. Unassigned Funds 1,591,718 Chubb National Ins. Co. SURPLUS TO POLICYHOLDERS 4,324,172 Other Affiliates 98,826 Premiums Receivable 1,634,609 Other Assets 2,410,891 TOTAL LIABILITIES AND TOTAL ADMITTED ASSETS 16,527,052 SURPLUS \$16,527,052 S

Investments are valued in accordance with requirements of the National Association of Insurance Commissioners, At December 31, 2020, investments with a carrying value of 507,794,700 were deposited with government authorities as required by law.

"Electronic signatures only and no notary due to COVID-19 related stay at home restrictions"

STATE OF PENNSYLVANIA

COUNTY OF PHILADELPHIA

John Taylor, being duly sworn, says that he is Senior Vice President of Federal Insurance Company and that to the best of his knowledge and belief the foregoing is a true and correct statement of the said Company's financial condition as of the 31 st day of December, 2020.

DocuSigned by: e this John P Taylor

Notary Public

My commission expires

DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That The Continental Insurance Company, a Pennsylvania insurance company, is a duly organized and existing insurance company having its principal office in the City of Chicago, and State of Illinois, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Elliott Wolffe, Maria L Spadaccini, James Baldassare Jr, Krista A Burke, Sherryanne M DePirro, Lisa M Scavetta, Nicholas F Walsh, Charo J Rosemond, John F Surano, Individually

of Saddle Brook, NJ, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the insurance company and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Board of Directors of the insurance company.

In Witness Whereof, The Continental Insurance Company has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 27th day of June, 2021.



The Continental Insurance Company

Paul T. Bruflat

ice President

State of South Dakota, County of Minnehaha, ss:

On this 27th day of June, 2021, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of The Continental Insurance Company, a Pennsylvania insurance company, described in and which executed the above instrument; that he knows the seal of said insurance company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said insurance company and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance company.

M. BENT OTARY PUBLIC SOUTH DAKOTA SE

My Commission Expires March 2, 2026

Bent

M. Bent

Notary Public

CERTIFICATE

I, D. Johnson, Assistant Secretary of The Continental Insurance Company, a Pennsylvania insurance company, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance company printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance company this 14th day of September . 2021



The Continental Insurance Company

Assistant Secretary D. Johnson

Form F6850-4/2012

Go to www.cnasurety.com > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF THE CONTINENTAL INSURANCE COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company at a meeting held on May 10, 1995.

"RESOLVED: That any Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Group Vice President to the Secretary of the Company prior to such execution becoming effective.

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execution power of attorneys on behalf of The Continental Insurance Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012.

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"), Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."

THE CONTINENTAL INSURANCE COMPANY Radnor, Pennsylvania Statement of Net Admitted Assets and Liabilities December 31, 2020

ASSETS

A	SSEIS			
Bonds			\$	1,486,639,077
Stocks				162,236,319
Cash and short-term investments				98,903,921
Receivables for securities				180,000
Investment income due and accrued				15,233,564
Amounts recoverable from reinsurers				53,225,848
Funds held by or deposited with reinsured companies				1,599,351
Current federal and foreign income tax recoverable and inter	est thereon			.,
Net deferred tax asset				52,540,270
Premiums and considerations				42,752,978
Other assets				6.646,732
Total Assets			\$	1,919,958,060
LIABILITIE	S AND SURPLU	IS		
Losses	e nano o o ra pe	<u></u>	s	531,250,741
Loss adjustment expense				35,327,198
Unearned premiums				55,527,190
Other expenses				
Federal and foreign income taxes payable				2
Ceded reinsurance premiums payable (net of ceding commiss	sions)			40,875,605
Funds held by company under reinsurance treaties				2,701,045
Provision for reinsurance				30,000,000
Other liabilities				(487,038,433)
Total Liabilities			\$	153,116,158
Surplus Account:				
Capital paid up	\$	53,566,360		
Gross paid in and contributed surplus	.,	1,423,436,994		
Special Surplus		265,943,410		
Unassigned funds		23,895,138		
Surplus as regards policyholders		20:070,100	\$	1,766,841,902
Total Liabilities and Capital			S	1,919,958,060
Laboration and a second second second second				1,717,750,000

I, Julie Lee, Assistant Vice President of Continental Insurance Company hereby certify that the above is an accurate representation of the financial statement of the Company dated December 31, 2020, as filed with the various Insurance Departments and is a true and correct statement of the condition of Continental Insurance Company as of that date.



THE CONTINENTAL INSURANCE COMPANY

ulu sel By

Assistant Vice President, External Reporting

Subscribed and sworn to me this <u>9</u> day of April 2021 My commission expires:



Golanda Jimonoz By_

Notary Public



Berkshire Hathaway Specialty Insurance

Department, Berkshire Hathaway Specialty Insurance Company, One Lincoln Street, 23rd Floor

POWER OF ATTORNEY IS VOID IF ALTERED

THIS

HO

of Attorney please contact us at: BHSI Surety

email at J Ino us on

02111 | (770) 625-2516 or by

Boston, MA

To verify the authenticity of this Power

via fax to (617) 507-8259, or via mail.

V (moy)

email at

453-9675, via

free number at (855)

toll 1

24-hour

claim please contact.

of a

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notify

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Power Of Attorney

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY NATIONAL INDEMNITY COMPANY / NATIONAL LIABILITY & FIRE INSURANCE COMPANY

Know all men by these presents, that BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, a corporation existing under and by virtue of the laws of the State of Nebraska and having an office at One Lincoln Street, 23rd Floor, Boston, Massachusetts 02111, NATIONAL INDEMNITY COMPANY, a corporation existing under and by virtue of the laws of the State of Nebraska and having an office at 3024 Harney Street, Omaha, Nebraska 68131 and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, a corporation existing under and by virtue of the laws of the State of Connecticut and having an office at 100 First Stamford Place, Stamford, Connecticut 06902 (hereinafter collectively the "Companies"), pursuant to and by the authority granted as set forth herein, do hereby name, constitute and appoint: Krista A. Burke, Sherryanne M. DePirro, Charo J. Rosemond, Andrew Waterbury, James Baldassare, Jr., Maria L. Spadaccini, Nicholas F. Walsh, John F. Surano, Elliott W. Wolffe, Lisa M. Scavetta, 250 Pehle Avenue, Suite 311 of the city of Saddle Brook, State of New Jersey, their true and lawful attorney(s)-in-fact to make, execute, seal, acknowledge, and deliver, for and on their behalf as surety and as their act and deed, any and all undertakings, bonds, or other such writings obligatory in the nature thereof, in pursuance of these presents, the execution of which shall be as binding upon the Companies as if it has been duly signed and executed by their regularly elected officers in their own proper persons. This authority for the Attorney-in-Fact shall be limited to the execution of the attached bond(s) or other such writings obligatory in the nature thereof.

In witness whereof, this Power of Attorney has been subscribed by an authorized officer of the Companies, and the corporate seals of the Companies have been affixed hereto this date of December 20, 2018. This Power of Attorney is made and executed pursuant to and by authority of the Bylaws, Resolutions of the Board of Directors, and other Authorizations of BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, which are in full force and effect, each reading as appears on the back page of this Power of Attorney, respectively. The following signature by an authorized officer of the Company may be a facsimile, which shall be deemed the equivalent of and constitute the written signature of such officer of the Company for all purposes regarding this Power of Attorney, including satisfaction of any signature requirements on any and all undertakings, bonds, or other such writings obligatory in the nature thereof, to which this Power of Attorney applies.

By:

NATIONAL INDEMNITY COMPANY,

David Fields, Vice President

EMN

SURFT

SEAL

NATIONAL LIABILITY & FIRE INSURANCE COMPANY,

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY.

David Fields, Executive Vice President



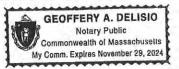
NOTARY

[Notary Seal]

By:

State of Massachusetts, County of Suffolk, ss:

On this 20th day of December, 2018, before me appeared David Fields, Executive Vice President of BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY and Vice President of NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, who being duly sworn, says that his capacity is as designated above for such Companies; that he knows the corporate seals of the Companies; that the seals affixed to the foregoing instrument are such corporate seals; that they were affixed by order of the board of directors or other governing body of said Companies pursuant to its Bylaws, Resolutions and other Authorizations, and that he signed said instrument in that capacity of said Companies.



Doppy Dilisio

Notary Public

I, Ralph Tortorella, the undersigned, Officer of BERKSHIRE HATHAW AY SPECIALTY INSURANCE COMPANY, NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies which is in full force and effect and has not been revoked. IN TESTIMONY WHEREOF, see hereunto affixed the seals of said Companies this September 14, 2021



Officer

BHSIC, NICO & NLF POA (2018)

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY (BYLAWS)

ARTICLE V.

CORPORATE ACTIONS

....

EXECUTION OF DOCUMENTS:

....

Section 6.(b) The President, any Vice President or the Secretary, shall have the power and authority:

(1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company bonds and other undertakings, and

(2) To remove at any time any such Attorney-in-fact and revoke the authority given him.

NATIONAL INDEMNITY COMPANY (BY-LAWS)

Section 4. Officers, Agents, and Employees:

A. The officers shall be a President, one or more Vice Presidents, a Secretary, one or more Assistant Secretaries, a Treasurer, and one or more Assistant Treasurers none of whom shall be required to be shareholders or Directors and each of whom shall be elected annually by the Board of Directors at each annual meeting to serve a term of office of one year or until a successor has been elected and qualified, may serve successive terms of office, may be removed from office at any time for or without cause by a vote of a majority of the Board of Directors, and shall have such powers and rights and be charged with such duties and obligations as usually are vested in and pertain to such office or as may be directed from time to time by the Board of Directors; and the Board of Directors or the officers may from time to time appoint, discharge, engage, or remove such agents and employees as may be appropriate, convenient, or necessary to the affairs and business of the corporation.

NATIONAL INDEMNITY COMPANY (BOARD RESOLUTION ADOPTED AUGUST 6, 2014)

RESOLVED, That the President, any Vice President or the Secretary, shall have the power and authority to (1) appoint Attorneysin-fact, and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

NATIONAL LIABILITY & FIRE INSURANCE COMPANY (BY-LAWS)

ARTICLE IV

Officers

Section 1. Officers, Agents and Employees:

A. The officers shall be a president, one or more vice presidents, one or more assistant vice presidents, a secretary, one or more assistant secretaries, a treasurer, and one or more assistant treasurers, none of whom shall be required to be shareholders or directors, and each of whom shall be elected annually by the board of directors at each annual meeting to serve a term of office of one year or until a successor has been elected and qualified, may serve successive terms of office, may be removed from office at any time for or without cause by a vote of a majority of the board of directors. The president and secretary shall be different individuals. Election or appointment of an officer or agent shall not create contract rights. The officers of the Corporation shall have such powers and rights and be charged with such duties and obligations as usually are vested in and pertain to such office or as may be directed from time to time by the board of directors; and the board of directors or the officers may from time to time appoint, discharge, engage, or remove such agents and employees as may be appropriate, convenient, or necessary to the affairs and business of the Corporation.

NATIONAL LIABILITY & FIRE INSURANCE COMPANY (BOARD RESOLUTION ADOPTED AUGUST 6, 2014)

RESOLVED, That the President, any Vice President or the Secretary, shall have the power and authority to (1) appoint Attorneysin-fact, and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

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1314 Douglas Street, Suite 1400, Omaha, Nebraska 68102-1944

	12/31/2020		12/31/2019		12/31/2018
Total invested assets	\$ 5,475,240,588	69	5,172,183,338	\$	4,313,185,189
Premium & agent balances (n	603,615,506		368,086,012		301,849,144
All other assets	157,897,676		127,524,677		140,930,406
Admitted Assets	\$ 6,236,753,770	69	5,667,794,027	6	4,755,964,739

ω

ASSETS* ADMITTED

SURPLUS* oð LIABILITIES

	12/31/2020	12/3	1/2019		12/31/2018
Loss & loss exp. unpaid	\$ 921,923,948	8	634,745,558	θ	463,103,223
Unearned premiums	372,836,160	e	14,117,549		241,835,588
All other liabilities	1,054,922,210	2	744,738,458		570,628,148
Total Liabilities	2,349,682,318	1,6	93,601,565		1,275,566,959
Total Policyholders' Surplu:	3,887,071,452	3,9	3,974,192,463		3,480,397,780
Total Liabilities & Surplus	\$ 6,236,753,770	\$ 5,6	67,794,028	ь	4,755,964,739

* Assets, liabilities and surplus are presented on a Statutory Accounting Basis as promulgated by the NAIC and/or the laws of the company's domiciliary state.

AUTHORIZATION TO INSERT DATE OF CONTRACT ON BONDS

- DATE: September 14, 2021
- TO: City and County of Denver
- RE: Flatiron Constructors, Inc ("as Contractor") Taxiway EE Construction Denver International Airport Contract # 202158849
- Flatiron BOND NOS. Liberty Mutual Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

Dear Sir or Madam:

The Performance and Payment Bond covering the referenced project were executed by this agency, an authorized representative for the sureties for Flatiron Constructors, Inc on September 14, 2021.

We hereby authorize the City and County of Denver to date the bonds to coincide with the date of the contract.

Liberty Mutual Insurance Company Travelers Casualty and Surety Company of America Fidelity and Deposit Company of Maryland Zurich American Insurance Company Federal Insurance Company The Continental Insurance Company Berkshire Hathaway Specialty Insurance Company

By:

Elliott W Wolffe, Attorney-In-Fact Turner Surety and Insurance Brokerage, Inc. 250 Pehle Avenue, Suite 311, Saddle Brook, NJ 07663 Direct: 201.267.7510 |Cell 201.527.5282| jsurano@tsibinc.com | CA License # 0E81386

CORPORATE ACKNOWLEDGMENT

Form 152

STATE OF NEW JERSEY COUNTY OF BERGEN

day of September, 2021 before me personally came On this Elliott W. Wolffe to me known, who, being by me duly sworn, did depose and say that she/he resides in Livingston, New Jersey that she/he is the ATTORNEY IN FACT of the LIBERTY MUTUAL INSURANCE COMPANY, TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, ZURICH AMERICAN INSURANCE COMPANY, FEDERAL INSURANCE COMPANY, THE CONTINENTAL INSURANCE COMPANY, BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, the corporation described in and which executed the above instrument that she/he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that she/he signed her/his name thereto by like order.

(SEAL)

BIANCA L. MELI NOTARY PUBLIC, STATE OF NEW JERSEY **MY COMMISSION EXPIRES** SEPTEMBER 30, 2024

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints **Grant Johns** as an Authorized Signatory of the Corporation, effective **October 26, 2020** to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 29 day of 2020.

DIRECTOR: Adolfo Valderas, Executive Chairman

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints Kevin McCormick as an Authorized Signatory of the Corporation, effective October 26, 2020 to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 25th day of 2020.

DIRECTOR: duas

Adolfo Valderas, Executive Chairman

AUTHORIZATION TO INSERT DATE OF CONTRACT ON BONDS

- DATE: September 14, 2021
- TO: City and County of Denver
- RE: Flatiron Constructors, Inc ("as Contractor") Taxiway EE Construction Denver International Airport Contract # 202158849
- Flatiron BOND NOS. Liberty Mutual Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

Dear Sir or Madam:

The Performance and Payment Bond covering the referenced project were executed by this agency, an authorized representative for the sureties for Flatiron Constructors, Inc on September 14, 2021.

We hereby authorize the City and County of Denver to date the bonds to coincide with the date of the contract.

Liberty Mutual Insurance Company Travelers Casualty and Surety Company of America Fidelity and Deposit Company of Maryland Zurich American Insurance Company Federal Insurance Company The Continental Insurance Company Berkshire Hathaway Specialty Insurance Company

By:

Elliott W Wolffe, Attorney-In-Fact

Turner Surety and Insurance Brokerage, Inc.

250 Pehle Avenue, Suite 311, Saddle Brook, NJ 07663 Direct: 201.267.7510 |Cell 201.527.5282| jsurano@tsibinc.com | CA License # 0E81386

EXHIBIT H

Liberty Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned <u>Flatiron Constructors, Inc.</u>, a corporation organized under the laws of the State of <u>Delaware</u>, hereinafter referred to as the "Contractor" and <u>SEE ATTACHMENT A</u>, a corporation organized under the laws of the State of <u>SEE</u> <u>ATTACHMENT A</u>, and authorized to transact business in the State of Colorado, hereinafter referred to as Surety, are held and firmly bound unto the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "CITY", in the penal sum of FORTY-TWO MILLION, FOUR HUNDRED FIVE THOUSAND, SIX HUNDRED FORTY-THREE AND 90/100 Dollars (\$42,405,643.90) lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WHEREAS, the above Contractor has entered into a written contract with the City for furnishing all labor, materials, tools, superintendence, and other facilities and accessories for the construction of Contract No. 202158849 Denver International Airport, in accordance with the Technical Specifications, Contract Drawings and all other Contract Documents therefor which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, THEREFORE, the condition of this payment bond obligation is such that if the Contractor shall at all times promptly make payments of all amounts lawfully due to all persons supplying or furnishing it or its subcontractors with labor and materials, rental machinery, tools, or equipment, used or performed in the prosecution of work provided for in the above Contract and shall indemnify and save harmless the City to the extent of any and all payments in connection with the carrying out of such Contract which the City may be required to make under the law, then this obligation shall be null and void, otherwise, it shall remain in full force and effect;

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract, or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

[END OF PAGE]

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

CITY AND COUNTY OF DENVER

Signatures by CEO, CAO and the Mayor will be provided later and shall be fully incorporated herein By:_____ MAYOR

By:_____

Chief Executive Officer Denver International Airport

APPROVED AS TO FORM:

KRISTIN M. BRONSON, Attorney for the City and County of Denver

By:___

Assistant City Attorney

ATTACHMENT A

BOND NUMBERS:	Liberty Bond No.:	015214610
	Travelers Bond No.:	107433031
	F&D/Zurich Bond No.:	9374494
	Federal Bond No.:	K40399689
	Continental Bond No.:	30138062
	Berkshire Bond No.:	47-SUR-300033-01-0556

Liberty Mutual Insurance Company, a Massachusetts Corporation Travelers Casualty and Surety Company of America, a Connecticut corporation Fidelity and Deposit Company of Maryland, a Illinois corporation Zurich American Insurance Company, a New York corporation Federal Insurance Company, an Indiana corporation The Continental Insurance Company, a Pennsylvania Corporation Berkshire Hathaway Specialty Insurance Company, a Nebraska Corporation

Liberty Mutual Insurance Company – A.M. Best Rating A XV 175 Berkeley Street, Boston, MA 02116 Mailing Address for Notices: Gretchen Eck, Senior Surety Claims Counsel 2815 Forbs Avenue, Suite 102 Hoffman Estates, IL 60192

Bond No. 015214610 Travelers Casualty and Surety Company of America – A.M. Best Rating A++ XV Construction Services, One Tower Square, Hartford, CT 06183 Bond No. 107433031

Fidelity and Deposit Company of Maryland Zurich American Insurance Company - A.M. Best Rating A+ XV 1299 Zurich Way, 5th Floor, Schaumburg, IL 60196 Bond No. 9374494

Federal Insurance Company – A.M. Best Rating A++ XV 202B Hall's Mill Road, Whitehouse Station, NJ 08889 Bond No. K40399689

The Continental Insurance Company – A.M. Best Rating A XV 151 N Franklin Street, Chicago, IL 60606 Bond No. 30138062

Berkshire Hathaway Specialty Insurance Company – A.M. Best Rating A++ XV 1314 Douglas Street, Suite 1400, Omaha, NE 68102 Bond No. 47-SUB-300033-01-0556

By:

Elliott w Wolffe, Attorney-In-Fact

Jurano Witness: < John F. Surano

Liberty <u>Mutual</u>.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

> Liberty Mutual Insurance Company The Ohio Casualty Insurance Company West American Insurance Company

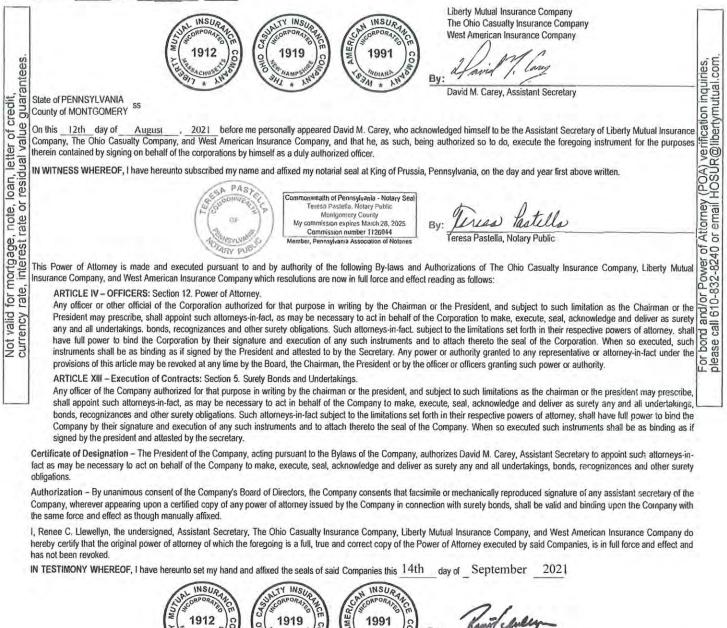
Certificate No: 8206136-974450

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, <u>Charo J.</u> <u>Rosemond</u>, Elliott W. Wolffe, James Baldassare, Jr., John F. Surano, Krista A. Burke, Lisa M. Scavetta, Maria L. Spadaccini, Nicholas F. Walsh, Sherryanne M. DePirro

all of the city of <u>Saddle Brook</u> state of <u>NJ</u> each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 12th day of August , 2021 .



By:

SM *

Renee C. Llewellyn, Assistant Secretary

LMS-12873 LMIC OCIC WAIC Multi Co 02/21



LIBERTY MUTUAL INSURANCE COMPANY

FINANCIAL STATEMENT - DECEMBER 31, 2020

Liabilities

Assets		
Cash and Bank Deposits	\$2,058,007,542	
*Bonds — U.S Government	2,209,760,437	
*Other Bonds	15,902,755,586	
*Stocks	18,517,107,230	
Real Estate	193,169,809	
Agents' Balances or Uncollected Premiums	6,970,170,469	
Accrued Interest and Rents	118,399,147	
Other Admitted Assets	12,079,597,645	

Total Admitted Assets \$58,048,967,865

Liabilities	
Unearned Premiums	\$8,448,706,991
Reserve for Claims and Claims Expense	23,879,216,613
Funds Held Under Reinsurance Treaties	343,068,613
Reserve for Dividends to Policyholders	, 1,192,716
Additional Statutory Reserve	77,397,000
Reserve for Commissions, Taxes and	
Other Liabilities	6,279,510,804
Total	\$39,029,092,737
Special Surplus Funds \$178,155,1	02
Capital Stock 10,000,0	75
Paid in Surplus 10,945,045,2	14
Unassigned Surplus 7,886,674,7	37
Surplus to Policyholders	19,019,875,128
Total Liabilities and Surplus	\$58,048,967,865



* Bonds are stated at amortized or investment value; Stocks at Association Market Values. The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2020, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 25th day of March, 2021.

Amiholajewski.

Assistant Secretary



Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Elliott W. Wolffe of SADDLE BROOK, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and

acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

City of Hartford ss.

Robert L. Raney, Senior Vice President

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



By:

Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Senior Vice President, any Senior Vice President, any Senior Vice President, any Senior Vice President, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 14th day of September 2021



Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880. Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONNECTICUT 06183

FINANCIAL STATEMENT AS OF DECEMBER 31, 2020

CAPITAL STOCK \$ 6,480,000

ASSETS		LIABILITIES & SURPLUS	
CASH AND INVESTED CASH BONDS STOCKS INVESTMENT INCOME DUE AND ACCRUED OTHER INVESTED ASSETS PREMIUM BALANCES NET DEFERRED TAX ASSET REINSURANCE RECOVERABLE RECEIVABLES FROM PARENT, SUBSIDIARIES AND AFFILIATES OTHER ASSETS	\$ 239,403,348 3,831,156,661 109,074,035 36,856,709 4,970,512 277,653,788 55,188,715 32,553,518 34,876,347 4,155,794	UNEARNED PREMIUMS LOSSES LOSS ADJUSTMENT EXPENSES COMMISSIONS TAXES, LICENSES AND FEES OTHER EXPENSES CURRENT FEDERAL AND FOREIGN INCOME TAXES REMITTANCES AND ITEMS NOT ALLOCATED AMOUNTS WITHHELD / RETAINED BY COMPANY FOR OTHERS POLICYHOLDER DIVIDENDS PROVISION FOR REINSURANCE ADVANCE PREMIUM CEDED REINSURANCE NET PREMIUMS PAYABLE RETROACTIVE REINSURANCE RESERVE ASSUMED OTHER ACCRUED EXPENSES AND LIABILITIES TOTAL LIABILITIES CAPITAL STOCK PAID IN SURPLUS OTHER SURPLUS TO POLICYHOLDERS	\$ 1,121,070,380 1,003,200,666 163,346,678 40,805,693 13,561,421 42,506,558 4,865,484 8,646,391 42,228,250 12,353,304 7,930,280 1,867,512 63,102,972 800,763 568,668 \$2,534,855,020 \$6,480,000 433,803,760 1,650,750,847 \$2,091,034,607
TOTAL ASSETS	\$ 4,625,889,627	TOTAL LIABILITIES & SURPLUS	\$4,625,889,627

STATE OF CONNECTICUT)
COUNTY OF HARTFORD) SS.
CITY OF HARTFORD)

MICHAEL J, DOODY, BEING DULY SWORN, SAYS THAT HE IS VICE PRESIDENT - FINANCE, OF TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, AND THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT STATEMENT OF THE FINANCIAL CONDITION OF SAID COMPANY AS OF THE 31ST DAY OF DECEMBER, 2020.

VICE PRESIDENT - FINANC

SUBSCRIBED AND SWORN TO BEFORE ME THIS 26TH DAY OF MARCH, 2021



SUSAN M. WEISSLEDER Notary Public My Commission Expires November 30, 2022

NOTARY PUBLIC

ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by Robert D. Murray, Vice President, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint, Krista A. BURKE, Charo J. ROSEMOND, Maria L. SPADACCINI, Sherryanne M. DEPIRRO, Nicholas F. WALSH, Lisa M. SCAVETTA, Elliott W. WOLFFE, James BALDASSARE, JR. And John F. SURANO, of Saddle Brook, New Jersey, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety.

and as its act and deed: any and all bonds and undertakings, and the execution of such bonds or undertakings in pursuance of these presents. shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York, the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons. The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 28th day of July A.D. 2020.



ATTEST. ZURICH AMERICAN INSURANCE COMPANY COLONIAL AMERICAN CASUALTY AND SURETY COMPANY FIDELITY AND DEPOSIT COMPANY OF MARYLAND

By: Robert D. Murray Vice President

Saun & Brown

By: Dawn E. Brown

Secretary

State of Maryland

County of Baltimore

On this 28th day of July, 2020, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, Robert D. Murray, Vice President and Dawn E. Brown, Secretary of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, deposeth and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



stance a. Dum

Constance A. Dunn, Notary Public My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, <u>Attorneys-in-Fact</u>. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify of revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF. I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this <u>14th</u> day of September <u>, 2021</u>.



Brues Hodges

Brian M. Hodges, Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims 1299 Zurich Way Schaumburg, IL 60196-1056 www.reportsfclaims@zurichna.com 800-626-4577 DocuSign Envelope ID: 25267642-AE1F-41D6-A122-FF1E8CB2CB63

ZURICH AMERICAN INSURANCE COMPANY COMPARATIVE BALANCE SHEET 4 WORLD TRADE CENTER, 150 GREENWICH STREET, NEW YORK, NY 10007 As of December 31, 2020 and December 31, 2019

		12/31/2020	-	12/31/2019
Assets				o and a subscription
Bonds	\$	15,696,060,158	s	16,780,375,969
Preferred Stock				
Common Stock		2,964,630,407		3,121,559,258
Real Estate		1,294,160,876		1,273,640,596
Other Invested Assets		1,435,120,966		1,185,313,467
Derivatives		178,175		21,358
Short-term Investments		285,002		14,532,665
Receivable for securities		809,339		114,199,089
Cash and cash equivalents		526,475,686		42,548,382
Securities lending reinvested collateral assets		105,614,095		55,769,285
Employee Trust for Deferred Compensation Plan		122,225,149	-	129,612,266
Total Cash and Invested Assets	S	22,145,559,853	\$	22,717,572,333
Premiums Receivable	\$	5,318,928,254	s	4,775,851,073
Funds Held with Reinsurers		99,875		97,862
Reinsurance Recoverable		1,248,855,148		1,497,744,413
Accrued Investment Income		118,531,136		127,170,427
Federal Income Tax Recoverable		507,200,404		565,755,651
Due from Affiliates		92,277,523		204,233,875
Other Assets		559,476,243		527,556,278
Total Assets	S	29,990,928,434	\$	30,415,981,911
Linbilities and Policyholders' Surplus				
Liabilities:				
Loss and LAE Reserves	\$	12,295,705,961	\$	12,626,869,059
Unearned Premium Reserve		3,952,940,831		3,845,794,904
Funds Held with Reinsurers		554,226,440		385,953,985
Loss In Course of Payment		1,351,312,377		1,442,194,686
Commission Reserve		119,930,116		124,215,143
Federal Income Tax Payable		34,772,832		
Remittances and Items Unallocated		432,727,110		147,106,142
Payable to parent, subs and affiliates		273,601,687		294,896,500
Provision for Reinsurance		175,327,995		110,765,261
Ceded Reinsurance Premiums Payable		1,591,358,027		1,821,418,177
Securities Lending Collateral Liability		105,614,095		55,769,285
Other Liabilities		1,922,304,215		1,887,566,082
Total Liabilities	S	22,809,821,689	\$	22,742,549,225
Policyholders' Surplus:				
Common Capital Stock	5	5,000,000	S	5,000,000
Paid-In and Contributed Surplus		4,394,131,321	*	4,394,131,321
Surplus Notes				100 110 1001
Special Surplus Funds		9,672,000		2,910,000
Cumulative Unrealized Gain		192,450,057		118,847,749
Unassigned Surplus		2,579,853,368		3,152,543,616
Total Policyholders' Surplus	S	7,181,106,746	\$	7,673,432,686

I, LAURA J. LAZARCZYK, Corporate Secretary of ZURICH AMERICAN INSURANCE COMPANY do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company, on the 31st day of December, 2020, according to the best of my information, knowledge and belief.

ocuSigned by: Laura J. Lazarczyk **Corporate Secretary** } SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2021.



State of Illinois

County of Cook

Notary public

DocuSign Envelope ID: 25267642-AE1F-41D6-A122-FF1E8CB2CB63

THE FIDELITY AND DEPOSIT COMPANY

OF MARYLAND 1299 Zurich Way Schaumburg, IL 60196

Statement of Financial Condition As Of December 31, 2020

ASSETS

Bonds\$	262,624,334
Stocks	19,715,392
Cash and Short-Term Investments	3,219,781
Reinsurance Recoverable	17,293,466
Federal Income Tax Recoverable	114,253
Other Accounts Receivable	29,083,530
TOTAL ADMITTED ASSETS\$	332,050,756

LIABILITIES, SURPLUS AND OTHER FUNDS

Reserve for Taxes and Expenses	539,588
Ceded Reinsurance Premiums Payable	43,847,005
Remittances and Items Unallocated	0
Payable to parents, subs and affiliates	0
Securities Lending Collateral Liability	0
TOTAL LIABILITIES	44,413,593
Capital Stock, Paid Up \$ 5,000,000	
Surplus	
Surplus as regards Policyholders	287,637,163
TOTAL\$	332,050,756

Securities carried at \$165,065,329 in the above statement are deposited with various states as required by law.

Securitics carried on the basis prescribed by the National Association of Insurance Commissioners. On the basis of market quotations for all bonds and stocks owned, the Company's total admitted assets at December 31, 2020 would be \$346,439,970 and surplus as regards policyholders \$302,026,377.

I, LAURA J. LAZARCZYK, Corporate Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company on the 31st day of December, 2020.

DocuSigned by aura J. Lazarczy 20560847137480

Corporate Secretary

State of Illinois City of Schaumburg SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2021.

Paradaaaaaa		
RYAN HORGAN	1 1	
Official Seal	This that	
Notary Public - State of Illinois		Notary Public
My Commission Expires Dec 10, 2024	11 11	
	V	



Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company Westchester Fire Insurance Company | ACE American Insurance Company

Know All by These Presents, that FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint James Baldassare Jr., Krista A. Burke, Sherryanne M. DePirro, Charo J. Rosemond, Lisa M. Scavetta, Maria L. Spadaccini, John F. Surano, Nicholas F. Walsh and Elliott W. Wolffe of Saddle Brook, New Jersey

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than ball bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY have each executed and attested these presents and affixed their corporate seals on this 29th day of July, 2020.

Dawn M. Chlores

Davin M. Chloros, Assistant Secretary



SS.

AtraAte Stephen M. Ilaney, Vice Presider



STATE OF NEW JERSEY

County of Hunterdon

On this 29th day of July, 2020 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros and Stephen M. Haney, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros and Stephen M. Haney, being by me duly sworn, severally and each for herself and himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal



KATHERINE J. ADELAAR NOTARY PUBLIC OF NEW JERSEY No. 2316685 Commission Expires July 18, 2024

Hut A ade Norary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

- "RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):
 - (1) Each of the Chairman, the President and the Vice Fresidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
 - (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
 - (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorneyin-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specification of one or more particular Written Commitments.
 - (4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in stach written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
 - (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be aviated by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
- (ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this 14th day of September 2021



Jawn m. Chiard

Down M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT: Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com

FEDERAL INSURANCE COMPANY

STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

December 31, 2020

(in thousands)

LIABILITIES AND ASSETS SURPLUS TO POLICYHOLDERS Cash and Short Term Investments (247,647) Outstanding Losses and Loss Expenses s \$ 7,823,012 1,421,176 2,145,775 United States Government, State Reinsurance Payable on Losses and Expenses and Municipal Bonds 4,277,332 Unearned Premiums Other Bonds 5,455,272 Ceded Reinsurance Premiums Payable 261,276 Stocks 567.832 Other Liabilities 551,641 Other Invested Assets 1,207,053 TOTAL INVESTMENTS 11,259,842 TOTAL LIABILITIES 12,202,880 Investments in Affiliates: Capital Stock 20,980 Great Northern Ins. Co. 404,889 Paid-In Surplus 2,711,474 349,615 182,191 186,189 Vigilant Ins. Co. Chubb Indemnity Ins. Co. Unassigned Funds 1,591,718 Chubb National Ins. Co. SURPLUS TO POLICYHOLDERS 4,324,172 Other Affiliates 98,826 Premiums Receivable 1,634,609 Other Assets 2,410,891 TOTAL LIABILITIES AND TOTAL ADMITTED ASSETS 16,527,052 SURPLUS \$16,527,052 S

Investments are valued in accordance with requirements of the National Association of Insurance Commissioners, At December 31, 2020, investments with a carrying value of 507,794,700 were deposited with government authorities as required by law.

"Electronic signatures only and no notary due to COVID-19 related stay at home restrictions"

STATE OF PENNSYLVANIA

COUNTY OF PHILADELPHIA

John Taylor, being duly sworn, says that he is Senior Vice President of Federal Insurance Company and that to the best of his knowledge and belief the foregoing is a true and correct statement of the said Company's financial condition as of the 31 st day of December, 2020.

DocuSigned by: e this John P Taylor

Notary Public

My commission expires

DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That The Continental Insurance Company, a Pennsylvania insurance company, is a duly organized and existing insurance company having its principal office in the City of Chicago, and State of Illinois, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Elliott Wolffe, Maria L Spadaccini, James Baldassare Jr, Krista A Burke, Sherryanne M DePirro, Lisa M Scavetta, Nicholas F Walsh, Charo J Rosemond, John F Surano, Individually

of Saddle Brook, NJ, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind them thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the insurance company and all the acts of said Attorney, pursuant to the authority hereby given is hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law and Resolutions, printed on the reverse hereof, duly adopted, as indicated, by the Board of Directors of the insurance company.

In Witness Whereof, The Continental Insurance Company has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 27th day of June, 2021.



The Continental Insurance Company

Paul T. Bruflat

ice President

State of South Dakota, County of Minnehaha, ss:

On this 27th day of June, 2021, before me personally came Paul T. Bruflat to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is a Vice President of The Continental Insurance Company, a Pennsylvania insurance company, described in and which executed the above instrument; that he knows the seal of said insurance company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said insurance company and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said insurance company.

M. BENT OTARY PUBLIC SOUTH DAKOTA SE

My Commission Expires March 2, 2026

Bent

M. Bent

Notary Public

CERTIFICATE

I, D. Johnson, Assistant Secretary of The Continental Insurance Company, a Pennsylvania insurance company, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the By-Law and Resolution of the Board of Directors of the insurance company printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said insurance company this 14th day of September . 2021



The Continental Insurance Company

Assistant Secretary D. Johnson

Form F6850-4/2012

Go to www.cnasurety.com > Owner / Obligee Services > Validate Bond Coverage, if you want to verify bond authenticity.

Authorizing By-Laws and Resolutions

ADOPTED BY THE BOARD OF DIRECTORS OF THE CONTINENTAL INSURANCE COMPANY:

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company at a meeting held on May 10, 1995.

"RESOLVED: That any Group Vice President may authorize an officer to sign specific documents, agreements and instruments on behalf of the Company provided that the name of such authorized officer and a description of the documents, agreements or instruments that such officer may sign will be provided in writing by the Group Vice President to the Secretary of the Company prior to such execution becoming effective.

This Power of Attorney is signed by Paul T. Bruflat, Vice President, who has been authorized pursuant to the above resolution to execution power of attorneys on behalf of The Continental Insurance Company.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 25th day of April, 2012.

"Whereas, the bylaws of the Company or specific resolution of the Board of Directors has authorized various officers (the "Authorized Officers") to execute various policies, bonds, undertakings and other obligatory instruments of like nature; and

Whereas, from time to time, the signature of the Authorized Officers, in addition to being provided in original, hard copy format, may be provided via facsimile or otherwise in an electronic format (collectively, "Electronic Signatures"), Now therefore be it resolved: that the Electronic Signature of any Authorized Officer shall be valid and binding on the Company."

THE CONTINENTAL INSURANCE COMPANY Radnor, Pennsylvania Statement of Net Admitted Assets and Liabilities December 31, 2020

ASSETS

A	SSEIS			
Bonds			\$	1,486,639,077
Stocks				162,236,319
Cash and short-term investments				98,903,921
Receivables for securities				180,000
Investment income due and accrued				15,233,564
Amounts recoverable from reinsurers				53,225,848
Funds held by or deposited with reinsured companies				1,599,351
Current federal and foreign income tax recoverable and inter	est thereon			.,
Net deferred tax asset				52,540,270
Premiums and considerations				42,752,978
Other assets				6.646,732
Total Assets			\$	1,919,958,060
LIABILITIE	S AND SURPLU	IS		
Losses	e nano o o ra pe	<u></u>	s	531,250,741
Loss adjustment expense				35,327,198
Unearned premiums				55,527,190
Other expenses				
Federal and foreign income taxes payable				2
Ceded reinsurance premiums payable (net of ceding commiss	sions)			40,875,605
Funds held by company under reinsurance treaties				2,701,045
Provision for reinsurance				30,000,000
Other liabilities				(487,038,433)
Total Liabilities			\$	153,116,158
Surplus Account:				
Capital paid up	\$	53,566,360		
Gross paid in and contributed surplus	.,	1,423,436,994		
Special Surplus		265,943,410		
Unassigned funds		23,895,138		
Surplus as regards policyholders		20:070,100	\$	1,766,841,902
Total Liabilities and Capital			S	1,919,958,060
Laboration and a second second second second				1,717,750,000

I, Julie Lee, Assistant Vice President of Continental Insurance Company hereby certify that the above is an accurate representation of the financial statement of the Company dated December 31, 2020, as filed with the various Insurance Departments and is a true and correct statement of the condition of Continental Insurance Company as of that date.



THE CONTINENTAL INSURANCE COMPANY

ulu sel By

Assistant Vice President, External Reporting

Subscribed and sworn to me this <u>9</u> day of April 2021 My commission expires:



Golanda Jimonoz By_

Notary Public



Berkshire Hathaway Specialty Insurance

Department, Berkshire Hathaway Specialty Insurance Company, One Lincoln Street, 23rd Floor

POWER OF ATTORNEY IS VOID IF ALTERED

THIS

HO

of Attorney please contact us at: BHSI Surety

email at J Ino us on

02111 | (770) 625-2516 or by

Boston, MA

To verify the authenticity of this Power

via fax to (617) 507-8259, or via mail.

V (moy)

email at

453-9675, via

free number at (855)

toll 1

24-hour

claim please contact.

of a

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notify

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Power Of Attorney

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY NATIONAL INDEMNITY COMPANY / NATIONAL LIABILITY & FIRE INSURANCE COMPANY

Know all men by these presents, that BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, a corporation existing under and by virtue of the laws of the State of Nebraska and having an office at One Lincoln Street, 23rd Floor, Boston, Massachusetts 02111, NATIONAL INDEMNITY COMPANY, a corporation existing under and by virtue of the laws of the State of Nebraska and having an office at 3024 Harney Street, Omaha, Nebraska 68131 and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, a corporation existing under and by virtue of the laws of the State of Connecticut and having an office at 100 First Stamford Place, Stamford, Connecticut 06902 (hereinafter collectively the "Companies"), pursuant to and by the authority granted as set forth herein, do hereby name, constitute and appoint: Krista A. Burke, Sherryanne M. DePirro, Charo J. Rosemond, Andrew Waterbury, James Baldassare, Jr., Maria L. Spadaccini, Nicholas F. Walsh, John F. Surano, Elliott W. Wolffe, Lisa M. Scavetta, 250 Pehle Avenue, Suite 311 of the city of Saddle Brook, State of New Jersey, their true and lawful attorney(s)-in-fact to make, execute, seal, acknowledge, and deliver, for and on their behalf as surety and as their act and deed, any and all undertakings, bonds, or other such writings obligatory in the nature thereof, in pursuance of these presents, the execution of which shall be as binding upon the Companies as if it has been duly signed and executed by their regularly elected officers in their own proper persons. This authority for the Attorney-in-Fact shall be limited to the execution of the attached bond(s) or other such writings obligatory in the nature thereof.

In witness whereof, this Power of Attorney has been subscribed by an authorized officer of the Companies, and the corporate seals of the Companies have been affixed hereto this date of December 20, 2018. This Power of Attorney is made and executed pursuant to and by authority of the Bylaws, Resolutions of the Board of Directors, and other Authorizations of BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, which are in full force and effect, each reading as appears on the back page of this Power of Attorney, respectively. The following signature by an authorized officer of the Company may be a facsimile, which shall be deemed the equivalent of and constitute the written signature of such officer of the Company for all purposes regarding this Power of Attorney, including satisfaction of any signature requirements on any and all undertakings, bonds, or other such writings obligatory in the nature thereof, to which this Power of Attorney applies.

By:

NATIONAL INDEMNITY COMPANY,

David Fields, Vice President

EMA

SURFT

SEAL

NATIONAL LIABILITY & FIRE INSURANCE COMPANY,

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY.

David Fields, Executive Vice President



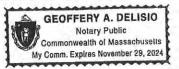
NOTARY

[Notary Seal]

By:

State of Massachusetts, County of Suffolk, ss:

On this 20th day of December, 2018, before me appeared David Fields, Executive Vice President of BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY and Vice President of NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, who being duly sworn, says that his capacity is as designated above for such Companies; that he knows the corporate seals of the Companies; that the seals affixed to the foregoing instrument are such corporate seals; that they were affixed by order of the board of directors or other governing body of said Companies pursuant to its Bylaws, Resolutions and other Authorizations, and that he signed said instrument in that capacity of said Companies.



Doppy Dilisio

Notary Public

I, Ralph Tortorella, the undersigned, Officer of BERKSHIRE HATHAW AY SPECIALTY INSURANCE COMPANY, NATIONAL INDEMNITY COMPANY and NATIONAL LIABILITY & FIRE INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies which is in full force and effect and has not been revoked. IN TESTIMONY WHEREOF, see hereunto affixed the seals of said Companies this September 14, 2021



Officer

BHSIC, NICO & NLF POA (2018)

BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY (BYLAWS)

ARTICLE V.

CORPORATE ACTIONS

....

EXECUTION OF DOCUMENTS:

....

Section 6.(b) The President, any Vice President or the Secretary, shall have the power and authority:

(1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company bonds and other undertakings, and

(2) To remove at any time any such Attorney-in-fact and revoke the authority given him.

NATIONAL INDEMNITY COMPANY (BY-LAWS)

Section 4. Officers, Agents, and Employees:

A. The officers shall be a President, one or more Vice Presidents, a Secretary, one or more Assistant Secretaries, a Treasurer, and one or more Assistant Treasurers none of whom shall be required to be shareholders or Directors and each of whom shall be elected annually by the Board of Directors at each annual meeting to serve a term of office of one year or until a successor has been elected and qualified, may serve successive terms of office, may be removed from office at any time for or without cause by a vote of a majority of the Board of Directors, and shall have such powers and rights and be charged with such duties and obligations as usually are vested in and pertain to such office or as may be directed from time to time by the Board of Directors; and the Board of Directors or the officers may from time to time appoint, discharge, engage, or remove such agents and employees as may be appropriate, convenient, or necessary to the affairs and business of the corporation.

NATIONAL INDEMNITY COMPANY (BOARD RESOLUTION ADOPTED AUGUST 6, 2014)

RESOLVED, That the President, any Vice President or the Secretary, shall have the power and authority to (1) appoint Attorneysin-fact, and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

NATIONAL LIABILITY & FIRE INSURANCE COMPANY (BY-LAWS)

ARTICLE IV

Officers

Section 1. Officers, Agents and Employees:

A. The officers shall be a president, one or more vice presidents, one or more assistant vice presidents, a secretary, one or more assistant secretaries, a treasurer, and one or more assistant treasurers, none of whom shall be required to be shareholders or directors, and each of whom shall be elected annually by the board of directors at each annual meeting to serve a term of office of one year or until a successor has been elected and qualified, may serve successive terms of office, may be removed from office at any time for or without cause by a vote of a majority of the board of directors. The president and secretary shall be different individuals. Election or appointment of an officer or agent shall not create contract rights. The officers of the Corporation shall have such powers and rights and be charged with such duties and obligations as usually are vested in and pertain to such office or as may be directed from time to time by the board of directors; and the board of directors or the officers may from time to time appoint, discharge, engage, or remove such agents and employees as may be appropriate, convenient, or necessary to the affairs and business of the Corporation.

NATIONAL LIABILITY & FIRE INSURANCE COMPANY (BOARD RESOLUTION ADOPTED AUGUST 6, 2014)

RESOLVED, That the President, any Vice President or the Secretary, shall have the power and authority to (1) appoint Attorneysin-fact, and to authorize them to execute on behalf of this Company bonds and other undertakings and (2) remove at any time any such Attorney-in-fact and revoke the authority given.

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1314 Douglas Street, Suite 1400, Omaha, Nebraska 68102-1944

	12/31/2020		12/31/2019		12/31/2018
Total invested assets	\$ 5,475,240,588	69	5,172,183,338	69	4,313,185,189
Premium & agent balances (n	603,615,506		368,086,012		301,849,144
All other assets	157,897,676		127,524,677		140,930,406
Admitted Assets	\$ 6,236,753,770	69	5,667,794,027	6	4,755,964,739

ω

ASSETS* ADMITTED

SURPLUS* oð LIABILITIES

	12/31/2020		12/31/2019		12/31/2018
Loss & loss exp. unpaid	\$ 921,923,948	в	634,745,558	θ	463,103,223
Unearned premiums	372,836,160		314,117,549		241,835,588
All other liabilities	1,054,922,210		744,738,458		570,628,148
Total Liabilities	2,349,682,318		1,693,601,565		1,275,566,959
Total Policyholders' Surplu:	3,887,071,452		3,974,192,463		3,480,397,780
Total Liabilities & Surplus	\$ 6,236,753,770	ω	5,667,794,028	ь	4,755,964,739

* Assets, liabilities and surplus are presented on a Statutory Accounting Basis as promulgated by the NAIC and/or the laws of the company's domiciliary state.

AUTHORIZATION TO INSERT DATE OF CONTRACT ON BONDS

- DATE: September 14, 2021
- TO: City and County of Denver
- RE: Flatiron Constructors, Inc ("as Contractor") Taxiway EE Construction Denver International Airport Contract # 202158849
- Flatiron BOND NOS. Liberty Mutual Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

Dear Sir or Madam:

The Performance and Payment Bond covering the referenced project were executed by this agency, an authorized representative for the sureties for Flatiron Constructors, Inc on September 14, 2021.

We hereby authorize the City and County of Denver to date the bonds to coincide with the date of the contract.

Liberty Mutual Insurance Company Travelers Casualty and Surety Company of America Fidelity and Deposit Company of Maryland Zurich American Insurance Company Federal Insurance Company The Continental Insurance Company Berkshire Hathaway Specialty Insurance Company

By:

Elliott W Wolffe, Attorney-In-Fact Turner Surety and Insurance Brokerage, Inc. 250 Pehle Avenue, Suite 311, Saddle Brook, NJ 07663 Direct: 201.267.7510 |Cell 201.527.5282| jsurano@tsibinc.com | CA License # 0E81386

CORPORATE ACKNOWLEDGMENT

Form 152

STATE OF NEW JERSEY COUNTY OF BERGEN

day of September, 2021 before me personally came On this Elliott W. Wolffe to me known, who, being by me duly sworn, did depose and say that she/he resides in Livingston, New Jersey that she/he is the ATTORNEY IN FACT of the LIBERTY MUTUAL INSURANCE COMPANY, TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA, ZURICH AMERICAN INSURANCE COMPANY, FEDERAL INSURANCE COMPANY, THE CONTINENTAL INSURANCE COMPANY, BERKSHIRE HATHAWAY SPECIALTY INSURANCE COMPANY, the corporation described in and which executed the above instrument that she/he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that she/he signed her/his name thereto by like order.

(SEAL)

BIANCA L. MELI NOTARY PUBLIC, STATE OF NEW JERSEY **MY COMMISSION EXPIRES** SEPTEMBER 30, 2024

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints **Grant Johns** as an Authorized Signatory of the Corporation, effective **October 26, 2020** to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 29 day of 2020.

DIRECTOR: Adolfo Valderas, Executive Chairman

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints Kevin McCormick as an Authorized Signatory of the Corporation, effective October 26, 2020 to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 25th day of 2020.

DIRECTOR: duas

Adolfo Valderas, Executive Chairman

AUTHORIZATION TO INSERT DATE OF CONTRACT ON BONDS

- DATE: September 14, 2021
- TO: City and County of Denver
- RE: Flatiron Constructors, Inc ("as Contractor") Taxiway EE Construction Denver International Airport Contract # 202158849
- Flatiron BOND NOS. Liberty Mutual Bond # 015214610 Travelers Bond # 107433031 F&D/Zurich Bond # 9374494 Federal Bond # K40399689 Continental Bond # 30138062 Berkshire Bond # 47-SUR-300033-01-0556

Dear Sir or Madam:

The Performance and Payment Bond covering the referenced project were executed by this agency, an authorized representative for the sureties for Flatiron Constructors, Inc on September 14, 2021.

We hereby authorize the City and County of Denver to date the bonds to coincide with the date of the contract.

Liberty Mutual Insurance Company Travelers Casualty and Surety Company of America Fidelity and Deposit Company of Maryland Zurich American Insurance Company Federal Insurance Company The Continental Insurance Company Berkshire Hathaway Specialty Insurance Company

By:

Elliott W Wolffe, Attorney-In-Fact

Turner Surety and Insurance Brokerage, Inc.

250 Pehle Avenue, Suite 311, Saddle Brook, NJ 07663 Direct: 201.267.7510 |Cell 201.527.5282| jsurano@tsibinc.com | CA License # 0E81386

EXHIBIT I

Contract Technical Specifications

Incorporated by Reference As Found in File 20210083 at the Denver Office of the Clerk and Recorder

EXHIBIT J

Contract Drawings

Incorporated by Reference As Found in File 20210083 at the Denver Office of the Clerk and Recorder



EXHIBIT K

INVITATION FOR BID

TAXIWAY EE CONSTRUCTION CONTRACT NO. 202158849

July 1, 2021

Flatiron Constructors, Inc. Contract No. 202158849-00

DENVER INTERNATIONAL AIRPORT

INVITATION FOR BID (IFB)

Airport Office Building (AOB) Denver International Airport (DEN) 8500 Pena Boulevard, Room 8810 Denver, Colorado 80249-6340

Contract Administrator (CA): E-Mail:

Tony Deconinck contract.procurement@flydenver.com

Invitation for Bid #: 202158849

BIDS MUST BE RECEIVED BY: July 30, 2021, by 2:00 PM Denver Local Time

Schedule of Activities

This projected schedule is an estimated timeline and is subject to change at the sole discretion of the City. All times listed in this document are understood to be Denver local time.

Event	Date
IFB Advertisement	July 1, 2021
Pre-Bid Conference	July 8, 2021 at 10:00 AM Denver Local Time
Last Date to Submit Written Questions	July 15, 2021 by 2:00 PM Denver Local Time
Bid Opening	July 30, 2021 by 2:00 PM Denver Local Time

Pre-Bid Conference – OPTIONAL

An optional Pre-Bid Conference will be held virtually via a Microsoft Teams Meeting at the time listed above in the Schedule of Activities. Please click on the following link to access the meeting:

<u>https://teams.microsoft.com/l/meetup-</u> join/19%3ameeting_ZjRjNzFkZjQtMTg4Ny00ZTFkLTgwMjYtMTliNjk3ZGM4NzE5%40thread.v2/0?context =%7b%22Tid%22%3a%2279c62162-b85e-4b0e-a863ebe7817ad70d%22%2c%22Oid%22%3a%224d2087cc-678d-42eb-a96a-3f2d7341b873%22%2c%22lsBroadcastMeeting%22%3atrue%7d&btype=a&role=a

At this conference, DEN representatives will explain the opportunity and answer questions regarding this IFB, including any written questions submitted to DEN prior to the conference.

IFB Questions

DEN will not answer any telephone inquiries about this IFB. Written questions are due by the time listed above in the Schedule of Activities and shall be submitted electronically via the Rocky Mountain E-Purchasing System (BidNet) website. **DEN requires all questions to be submitted individually on this site.** Note: BidNet limits the characters available to input for DEN to respond to each question. For this reason, multiple questions may not be submitted as a single question, as DEN is unable to respond to multiple questions submitted in a single question box or to select and respond to only one question posed. A multipart question containing an initial question and a follow-up is the exception to this rule. All questions and answers will be posted on the BidNet website as an addendum to the bid at the link below following the deadline for submittal of questions:

https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation

Bid Submittal

The bid shall be prepared in accordance with the Preparation of Bid as described in Section IV of this RFB. Proposers shall submit their bid and all required forms via the BidNet website at the link below. Bids are due by the date and time listed in the Schedule of Activities above.

https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation

Allow ample time for the electronic submission of your bid. Following are links to a BidNet Electronic Bid Submission (EBS) guide and EBS FAQ site. DEN strongly encourages bidders to review this information prior to starting your submission in addition to starting the submission process at least one business day prior to the bid due date. DEN will not extend the submission deadline due to any technical issues or outages you may experience.

Vendor EBS Guide: <u>http://business.flydenver.com/bizops/documents/den_Vendor_EBS_Guide.pdf</u> EBS FAQs: <u>http://faq.bidnetdirect.com/electronic-bid-submission/</u>

Disadvantaged Business Enterprise Participation

The Director of the Division of Small Business Opportunity has the authority to establish a project goal for federally funded expenditures contracted by the City and County of Denver. The specific goal for this project is:

16% Disadvantaged Business Enterprise (DBE) Participation Goal

Project goals must be met with certified participants as set forth in 49 CFR Part 26 or through the demonstration of a sufficient good faith effort.

General Statement of Work

This project will provide the construction of a new taxiway (TW) EE and associated infrastructure. This taxiway will be located north and parallel to existing Taxiway ED, leading from Taxiway L, across Taxiway M, eastbound to the departure threshold of Runway 17L via extended Taxiway P7. The scope of work will include grading, drainage, utility relocation, airfield paving, airfield pavement marking, airfield electrical, and signage.

Prequalification

Each bidder must be prequalified in category **3C** – **Concrete Airfield Paving** at or above the **\$50 million** monetary level in accordance with the City's Rules and Regulations Governing Prequalification of Contractors. Each bidder must have submitted a prequalification application a minimum of ten (10) calendar days prior to the response due date. Applications must be submitted via email to <u>pw.prequal@denvergov.org</u>. To view the Rules and Regulations and to obtain a prequalification application, please visit our website at <u>www.denvergov.org/prequalification</u>.

BID SUBMITTAL REQUIREMENTS

The following is a checklist for reference when compiling the Bid submission. The documents listed below are required:

- Bid Forms all complete and signed
 - Bid Letter filled out completely and acknowledge all addenda
 - Bid Data Forms all forms completed and submitted
 - Disclosure of Legal & Administrative Proceedings & Financial Conditions
 - Form W-9
 - Certificate of Good Standing
 - Bid Bond (scan of executed bid bond in submittal)
- DSBO Forms
 - Commitment to DBE Participation
 - Form 1A List of Proposed Subcontractors, Subconsultants, and/or Suppliers
 - Letter(s) of Intent
- Diversity Survey
 - Diversity and Inclusiveness in City Solicitations (online survey include the completed survey with your Bid submission)
- □ Financial Forms
 - Schedule of Prices/Values and Quantities
- □ XXI. Appendix A Contract Provisions:
 - Section A4.3.2 Certificate of Buy American Compliance for Total Facility
 - Section A4.3.3 Certificate of Buy American Compliance for Manufactured Products

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I. CITY, AIRPORT AND PROJECT OVERVIEW

The values of equity, diversity, inclusivity, accessibility and sustainability are inherent to Denver's strategy to develop and maintain prosperous communities. Consequently, these values are imbedded into all of Denver's procurement processes to ensure competitive procurement that offers equitable opportunities for all potential proposers, including greater contracted and significant participation for minority, womenowned, and small businesses to ensure Denver's long-term economic, social, and environmental health. It is the City's expectation that all successful proposers demonstrate their commitment to City values through their procurement responses and post contract and/or lease activities.

Each procurement opportunity is to be approached with ethical and honest behavior. The City will solicit, evaluate, and award contracts based upon the Proposer's approach, proven experience, ability to perform work, costs, and pricing. DEN is looking for Proposers that demonstrate a history of integrity, stewardship, innovation and humanity. We are looking for firms that share these values with us and will approach this contract with them at the forefront.

The City's values may be demonstrated through but are not limited to: (a) workforce expansion; (b) utilization of minority, women-owned, and small business community separate from required certified goals; and (c) environmental sustainability.

In accordance with procedures described herein, you are hereby invited to submit a Bid for the subject project, which is described in the Technical Specifications and Drawings incorporated herein. The work under this Contract is anticipated to start on or about January 2022 and has a scheduled duration of approximately two years. The Bid must be prepared and submitted in accordance with the requirements and procedures contained in this IFB document and the City's, including DEN's, ordinances, rules, policies, and procedures. Compliance with these requirements by the Bidder is mandatory and is a condition of responsiveness. Any failure to satisfy these requirements will be a sufficient basis for the City and County of Denver's Department of Aviation, also known as Denver International Airport, (DEN or City) to disqualify the Bidder. The City shall not be liable for any of the Bidder's expenses associated with its preparation of the Bid or DEN's consideration of it. The Bidder, if selected, shall not include any such expenses as part of its fee for performing the Scope of Work.

II. ADMINISTRATIVE INFORMATION

II-1 Issuing Office

The City and County of Denver's Department of Aviation (City or DEN), by the Contract Services Department (DEN Contract Services). This IFB is governed by the City's ordinances and Procurement Rules in effect at the time of its issuance. DEN Contract Services is the sole point of contact concerning this IFB. All communication must be done through the Contract Services Department.

II-2 Introduction and Acceptance of IFB Terms

The Bidder, by submitting its Bid, acknowledges that it understands and will agree to the Sample Contract and corresponding Exhibits and the Scope of Work, and that the Bidder shall be able to perform as required. Acknowledgement of this condition shall be indicated by the signature of the Bidder on the Bid Letter, which is attached hereto and incorporated here in as Attachment 1, or an officer of the Bidder legally authorized to execute contractual obligations. A submission in response to this IFB acknowledges acceptance by the Bidder of all terms and conditions as set forth herein. The Bidder shall identify clearly and thoroughly any variations between its Bid and this IFB. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in this IFB.

II-3 Means of Communication

During the solicitation process for this IFB, all communication between the Contract Services Department and Bidders will be via postings on DEN's Rocky Mountain E-Purchasing System's (BidNet's) website: <u>https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation</u>

The Contract Services Department will post notices, which include, but are not limited to, any modifications to administrative or performance requirements, answers to inquiries received, clarifications to requirements, addenda, and the announcement of the apparent successful bidder. It is the responsibility of each potential Bidder to monitor the BidNet website regularly in order to be aware of changes, communications and/or addenda to bids.

DEN will not be held responsible for misinformation received from private plan holders. Please use the BidNet website to obtain solicitation information for the airport.

II-4 Interpretation of Bid Documents

The Bidder may request, in writing, a clarification or interpretation of any aspect of the IFB documents. Such requests must be made via the Rocky Mountain E-Purchasing System (BidNet) website by the due date and time specified in the Schedule of Activities listed on Page 2. DEN shall post all questions and answers on the BidNet Website following the deadline for submittal of questions as an addendum to the bid. DEN will not accept or respond to oral inquiries except for those made at the Pre-Bid Conference. The only 'official' responses are those that are posted to the BidNet Website for this IFB.

Note: BidNet limits the number of characters DEN may use to respond to each question. For this reason, do not submit multiple questions within a single question box, as DEN is unable to respond to multiple questions in the space provided. Because of this limitation, DEN reserves the right to reject groups of questions submitted in a single question box or to select and respond to only one question posed.

ll-5 Addenda

DEN reserves the right to revise the IFB documents at any time up to the time set for submission of the Bids. Any such revision(s) shall be described in an addendum to the IFB and shall be posted on the BidNet Website at the following link:

https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation

If DEN determines that the addendum may require significant changes to the Scope of Work, the deadline for submitting the Bids may be postponed by the number of days that DEN determines will allow Bidders sufficient time to revise their Bids. Any new submittal deadline date for delivering Bids to DEN shall be included in the addendum.

Bidders must acknowledge in the Bid submission that they received all addenda to the Bid documents (see Attachment 2, Part 1). Failure to acknowledge receipt of addenda may disqualify the Bid.

II-6 DEN Website

It shall be conclusively presumed that the Proposer did, before submitting a proposal and prior to the final proposal deadline, read all addenda, posted decisions and other information items relevant to the RFP which appeared on the DEN BidNet Website. Proposer may also contact the DEN Contract Administrator, Tony Deconinck by email at <u>contract.procurement@flydenver.com</u> to confirm all posted information.

Please visit the BidNet Website at the following link which contains such services and information as: <u>https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation</u>

- A. Advertisements for RFQs, RFPs and IFBs
- B. Status of RFQs, RFPs and IFBs
- C. Project addenda
- D. Incidental project information is available for viewing and printing, which includes:
 - a. Plan holder's list
 - b. Pre-Bid Conference attendance list
 - c. Questions and Answers

Incidental project information listed in item D., above, will only be available online at the BidNet Website and will not be mailed.

II-7 <u>Withdrawal of Bid</u>

A Bidder may withdraw its Bid by submitting to DEN a written request signed by the Bidder's authorized representative. The withdrawal of a Bid does not prejudice the right of the Bidder to submit future Bids.

II-8 Rights of DEN

DEN reserves the rights to cancel or modify this RFP at any time and to reject any or all proposals for any reason or for no reason. This RFP is an open and equitable invitation for proposals, and each proposal constitutes an offer to contract that DEN may consider in its sole and absolute discretion. Any errors or omissions in a proposal may result in the rejection and disqualification of the entire proposal. Errors, omissions, and other acts that may result in proposal rejection and disqualification include, but are not limited to, failure to strictly comply with the RFP requirements or any applicable ordinances, rules, or policies; the submission of any inaccurate or false information; any improper communications or collusion involving Proposers; default or termination for cause of any public or private contracts within the past five years; delinquent arrearages owed to DEN; and failure to submit proof of licensing or franchise authority and any related exclusivity requirements.

Notwithstanding the broad rights reserved to DEN to reject and disqualify any or all proposals, DEN may waive any immaterial deficiencies in proposals and may allow Proposers to cure any such deficiencies if an opportunity to cure is determined by DEN to be in DEN's best interests. If given an opportunity to

cure, Proposers will be notified of the allotted time to correct the identified deficiency; failure to correct the deficiency in the time allotted may result in proposals being deemed non-responsive and disqualified. DEN's waiver of an immaterial deficiency will in no way modify the RFP or excuse Proposers from full compliance with all RFP specifications. DEN may exercise the foregoing rights at any time without notice and without any liability whatsoever to any Proposer or other party. By responding to this RFP, each Proposer is deemed to accept and agree to all of these terms and conditions and to waive any rights to challenge DEN's determinations regarding proposal deficiencies in accordance with this section.

II-9 Disadvantaged Business Enterprise (DBE)

The City is committed to advancing its vision of small business equity and sustainability through growing the capacity of our small, disadvantaged businesses, which shall include certified small, disadvantaged businesses. The City will provide significant opportunities among these businesses and ensure they benefit from the contract. Aligning with the Division of Small Business Opportunity ("DSBO") mission to strengthen the City's small, disadvantaged, minority, and women-owned business community, this contract's disadvantaged business engagement initiatives are intended as a part of the City's commitment to ensure, small, disadvantaged businesses are actively and impactfully participating throughout the life of the Project.

Title 49, Code of Federal Regulations, Part 26, DBE Program Plan, Article III, Divisions 1 and 3 of Chapter 28(Ordinance), Denver Revised Municipal Code (D.R.M.C.), and any DOT Rules or Regulations promulgated pursuant thereto apply to this Project and will be incorporated into any agreement entered as part of this selection process. Under the Disadvantaged Business Enterprise (DBE) Regulations, the Director of DSBO ("Director") has the authority to establish participation goals for federally funded expenditure on construction, reconstruction, remodeling, professional and design work performed for the City and County of Denver. The participation goal is stated in the Notice of Invitation for bids bound herein. In order to comply with the bid requirements set forth in 49 CFR Part 26, DBE Program Plan, Ordinance, or any additional requirements, a bidder shall either meet the established participation goal or, in the alternative, demonstrate that the bidder has demonstrated sufficient good faith efforts to meet the goal in accordance with the Ordinance. A bidder's failure to comply with 49 CFR Part 26, DBE Program Plan, Ordinance, any Rules or Regulations promulgated pursuant thereto, or any additional requirement contained herein shall render the bid non-responsive and shall constitute cause for rejection. Failure by the Contractor/Consultant awarded the contract to comply with 49 CFR Part 26, DBE Program Plan, Ordinance requirements and its accompanying Rules and Regulations during the performance of the contract is a material breach of the contract, which may result in the imposition of sanctions on the Contractor/Consultant, as deemed appropriate by DSBO. Copies of the Ordinance and its accompanying Rules and Regulations are available for the use and review of bidders from DSBO, which can be found here: https://www.denvergov.org/dsbo.

Meeting Established Goal

 All DBEs listed for participation toward meeting the goal must be properly certified by the City and County of Denver (CCD) or Colorado Department of Transportation (CDOT) on or before the date bids are opened. The DBE(s) must be certified in the NAICS code(s) that coincide with the scope of work the identified firm will be performing to count towards the participation goal. The DBE Directory ("Directory"), is a current list of DBEs certified by CCD and CDOT. A copy of the Directory is located at the following web site http://coucp.dbesystem.com/. Bidders are encouraged to use the Directory to assist in identifying DBEs for the work and supplies required for the Project. Bidders are reminded that changes may be made to the Directory at any time. Procedures established to administer this program and a current copy of the Directory must always be used in preparing a bid. DBE certification or listing in the Directory is not a representation or warranty by the City regarding the qualifications of any listed DBE.

- 2. If a bidder is participating in a joint venture with a certified DBE firm, bidders must submit the Joint Venture Agreement to the DSBO <u>at least ten (10) business days prior to the bid opening</u>. The Joint Venture must be approved prior to the bid opening by the DSBO. Approval by the DSBO includes determining the amount the Joint Venture will count towards the participation goal.
- 3. Each bidder shall submit Bid Form pages entitled Commitment to DBE Participation, 1A- List of Proposed Subcontractors, Subconsultants, and/or Suppliers, and Letter(s) of Intent for all tiers with the bid at the time of bid opening. DSBO will evaluate each bid to determine responsiveness of the bid with regard to 49 CFR Part 26 and Ordinance requirements. A DBE Prime Bidder must submit a Letter of Intent for itself for self-performed work. The DBE Letter of Intent evidences the Bidder's understanding that the Bidder has or will enter into a contractual relationship with the DBE or that the Bidder's subcontractor(s), subconsultant(s), and/or supplier(s) will do so. Bidders are urged to carefully review these Letters of Intent before submission to the City to ensure the documents are properly completed and executed by the appropriate parties. Only the DBEs identified, and the precise levels of participation listed for each, at the time of bid opening, will be considered in determining whether the bidder has met the designated participation goal. Additional, participation submitted after bid opening will not be considered in determining responsiveness.
 - a. In determining whether a bidder's committed level of participation meets the stated DBE goal, DSBO shall base its calculation of applicable dollar amounts and percentages on the total base bid amount. If a bid contains alternates, participation contained in any alternate will not count towards satisfaction of the Participation goal at time of bid opening. However, should any designated alternate be selected by the City for inclusion in the contract ultimately awarded, the DBE goal percentage level submitted at time of bid opening, on the base bid, will also apply to the selected alternates and must be maintained through the remaining term of the contract on the total contract amount, including any alternate work. Therefore, bidders are urged to consider participation in preparing bids for designated alternates.
 - b. In utilizing the DBE participation of a Supplier, the following will count towards satisfaction of the goal:
 - i. If the materials or supplies are obtained from a DBE manufacturer, count one hundred percent (100%) of the cost of the materials or supplies toward the participation goal.
 - ii. Only sixty percent (60%) of the value of the commercially useful function performed by DBE Regular Dealers shall count toward satisfaction of the participation goal.
 - iii. Only the bona fide commissions earned by such Manufacturer Representatives or Brokers for its performance of a commercially useful function will count toward meeting the participation goals. The bidder must separate the bona fide brokerage commissions from the actual cost of the supplies or materials provided to determine the actual dollar amount of participation that can be counted towards meeting the goal.

c. Any agreement between a bidder and an DBE in which the bidder requires that the DBE not provide subcontracting quotations to other bidders is prohibited and shall render a bidder's bid nonresponsive. D.R.M.C. 28-68(f)

Good Faith Effort

If the bidder has not fully met the participation goal as provided in D.R.M.C. Section 28-62, then it shall demonstrate that it has made good faith efforts to meet such goal. The bidder shall furnish to the Director, with the bid at time of bid opening by the City a detailed statement of its good faith efforts to meet the participation goal established by the Director. The statement of good faith efforts shall include a specific response to address each of the categories, as outlined in the Ordinance, D.R.M.C. Section 28-60, and any additional criteria that the Director may establish by rule or regulation consistent with the purposes of the Ordinance. A bidder may include any additional information it believes may be relevant. Good faith efforts must be demonstrated to be substantive and not merely for formalistic compliance with the Ordinance. The scope and adequacy of the efforts will be considered in determining whether the bidder has achieved a good faith effort. Failure of a bidder to show good faith efforts shall render its overall good faith effort showing insufficient and its bid nonresponsive.

Bidders are encouraged to contact DSBO by phone at (303) 342-2180 or by email at <u>dsbo@flydenver.com</u> with specific questions related to compliance with 49 CFR Part 26, the DBE Program Plan, or the Ordinance.

II-10 Certification of Independent Price and Work Determination

By submission of this Bid, each Bidder, and in the case of a joint Bid, each party thereto, certified, that, in connection with this procurement:

- a. Prices and specific work processes in this Bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor, or with any party contracted by DEN to design and/or manage all or part of the program or work of which this IFB is a part;
- b. Unless otherwise required by law, the prices quoted and specific work processes described in this Bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to opening, directly or indirectly to any other bidder or to any competitor or to any party contracted by DEN to design and/or manage all or part of the program or work of which this IFB is a part; and
- c. No attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition.

Further, each person signing Attachment 1, Part 1 Bid Letter, for this Bid certified that:

- d. He/She is the person in the Bidder's organization responsible for the decision as to the prices being offered herein and that he/she has not participated, and will not participate, in any action contrary to subsection (a) through (c) above; or
- e. He / She is not the person in the Bidder's organization responsible for the decision as to the prices being offered herein but that he/she has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to subsections (a) through (c), above, and as their agent does

hereby so certify; and he/she has not participated, and will not participate, in any action contrary to subsections (a) through (c), above.

A Bid will not be considered for award where subsections (a), (c), (d) or (e), above, have been deleted or modified. Where (b) above has been deleted or modified, the Bid will not be considered for award unless the Bidder furnishes with the Bid a signed statement which sets forth in detail the circumstances of the disclosure and the Chief Executive Officer (CEO), or its designee, determines that such disclosure was not made for the purpose of restricting competition.

II-11 Designation of Subcontractors

The Bidder shall describe the qualifications of each subcontractor which it intends to use and the percentage and scope of the work which will be assigned to each of them. Resumes for the subcontractor's key personnel must be included.

Bidders who submit a Bid in response to this IFB are precluded from participation as a subcontractor with any other Bidders who submit a Bid for this IFB. However, subcontractors may be named on more than one (1) Bid.

II-12 Payment

Appropriate clarifications and additions to the Scope of Work may be made during negotiations with the successful Bidder. It is the intent of DEN to enter into a Contract in which the Bidder will be paid pursuant to the terms of the Contract.

II-13 Disclosure of Legal and Administrative Proceedings and Financial Condition

- A. The Bidder shall submit (at time of submittal) a statement which shall disclose all legal or administrative proceedings that involve a civil claim in excess of Fifty Thousand Dollars (\$50,000) in which the Bidder, its principals or key personnel were a party in the last five years. The Bidder shall include in the statement:
 - 1. The caption of the action naming all parties;
 - 2. The case number, jurisdiction and the date the action was filed;
 - 3. A brief description of the action, the amount of the claim and whether the action involved performance under any public or private construction contract; and
 - 4. The outcome or disposition of the action.
- B. The Bidder shall submit (at time of submittal) a statement which shall disclose whether Bidder has filed for protection under the laws of the U. S. Bankruptcy Code within the last ten (10) years.
- C. The Bidder shall submit (at time of submittal) a statement as to whether the Bidder, its principals or key employees presently, or in the past, are or have been involved in any debarment or suspension proceedings. Please include a description of any proceedings which prohibited or limited the Bidder from bidding or entering into any contract with any federal, state or local government entity. Include a brief description of the reason(s) for such action having been taken, the effective dates thereof and the governmental agency.

If the Bidder is a partnership or joint venture, please include a statement disclosing the information listed in subparagraph A and B, above, for each partner or joint venturer. If the Bidder is fifty percent

(50%) or greater owned by another entity or individual, please include a statement disclosing the above information for such entity or individual.

- D. The Bidder shall submit (at time of submittal) a statement as to whether the Bidder, its principals or key employees have been convicted of any crime related embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, receiving stolen property, fraud, unfair trade practices, violation of state of federal antitrust statutes, or other law indicating a lack of business integrity or business honesty or have been convicted of any other felony in any jurisdiction within the last five (5) years. Include the current status of any such principal or key employees.
- E. The Bidder shall submit (at time of submittal) its Dun & Bradstreet identification number if applicable. If the Bidder is a partnership or joint venture, it must submit the Dun & Bradstreet identification number for each partner of a joint venture.
- F. If the Bidder is a publicly held company, it shall submit (at the time of submittal) a list of any holders of ten percent (10%) or more of its stock.
- G. During contract negotiations, the Bidder may be asked to submit the following:
 - 1. An audited statement of overhead rates, payroll taxes and operating (profit) margin used to calculate hourly billing rates for DEN and approval. If the Bidder does not have audited overhead rates, an Exhibit E, Submittal 2 may be requested for each entity without audited overhead rates. This statement shall cover the Bidder's most recently completed fiscal year and shall be signed by a certified public accountant as a Certified Audited Statement in which the accountant expresses his or her opinion as to the fairness with which the statement represents the Bidder's financial position, results of operations and changes in financial position.
 - 2. If the Bidder is a partnership or joint venture, a Certified Audited Statement is required for each partner or joint venture. If the Bidder does not have audited overhead rates, an Exhibit E, Submittal 2 may be requested for each entity without audit overhead rates. If any individual owns thirty-two percent (32%) or more of the Bidder, a Certified Audited Statement is required for each such individual or if a Certified Audited Statement is not available, then the individual must supply copies of his or her federal tax returns for the prior two (2) years.
 - 3. If a Bidder is a small business as defined by the United States Small Business Administration, the Bidder may elect to submit copies of its Federal tax return for the prior two (2) years and prepare an Exhibit E, Submittal 2 in lieu of a Certified Audited Statement.
 - 4. A signed statement certifying that no material or significant changes have occurred since the date of completion of the Certified Audited Statement, or the filing of the Federal tax return and the date of the Bid.

II-14 Insurance Requirements

Bidder shall adhere to all insurance requirements stated in Attachment 4, which are attached hereto and incorporated herein by reference. ACORD FORM (or equivalent) must be emailed in pdf format to: <u>contractadmininvoices@flydenver.com</u>.

II-15 Governmental Immunity

Bidders and subcontractors understand and agree that the City, its officers, officials and employees are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 - 120, C.R.S., or otherwise available to the City, its officers, officials and employees.

II-16 Security

After receiving an executed contract, the Bidder shall be deemed a Contractor of DEN. The Contractor (or subcontractor) requiring access to the Controlled Area, Sterile Area or Secured Area shall become a "Participant" in the Airport Security Program and remain in good standing in order to retain Airport Security privileges.

Participant guidelines are outlined in Rules and Regulations Governing the Denver Municipal Airport System Rules and Regulations Part 20. A Contractor must be sponsored by an Air Carrier, Tenant or by the City. Once a Contractor company has been sponsored, they must designate an Authorized Signatory.

The sponsorship establishes that a Contractor (or subcontractor) has legitimate business at the Airport. All construction Contractors must submit a Participant Sponsorship form signed by their sponsor. A company sponsoring a Participant shall immediately notify Airport Security when any sponsorship is terminated.

A subcontractor company working under its own entity must be sponsored by a Contractor company. The subcontracting company must designate its own Authorized Signatory(ies).

Each Participant shall designate an Authorized Signatory to ensure the Participant's compliance with the Airport Security Program and act as the point of contact between the Participant and Airport Security. The Authorized Signatory shall be designated in writing to Airport Security by the Participant.

The Authorized Signatory is responsible for signing and verifying all information on the Denver International Airport Fingerprinting and Badging applications. All submitted applications must be an original. It is the Authorized Signatory's responsibility to ensure that Airport Security maintains valid contact information. The Authorized Signatory must maintain a current and valid Airport Identification Badge (ID Badge).

The security status of the Airport is subject to change without notice. Should the security status of the Airport change at any time during the term of the Contract, a written notice shall be issued to the Contractor, detailing all applicable security modifications. The Contractor must take immediate steps to comply with those security modifications.

The Contractor shall return to DEN, upon Contract completion or termination, or upon demand by DEN, all access keys and Airport ID Badges issued to it by DEN to Controlled Areas, Sterile Areas or Secured Areas of the Airport. If the Contractor fails to return any such Airport ID Badge(s) or Airport Security Key(s) at Contract completion or termination or upon demand by the DEN, the Contractor shall be liable to the DEN for all DEN's costs, including the DEN's labor costs for re-coring doors and any other work which is required to prevent compromise of any Airport Security system. In order to collect such costs hereunder, the DEN may withhold funds in such amount from any amounts due and payable to the Contractor under the Contract.

Airport Security must be immediately notified if an Airport ID badge or security key is lost or stolen and must be notified immediately upon the termination of an individual's employment. Pursuant to 49 CFR Part 1520.04-10(d) a fee shall be assessed against any employer who fails to return an Airport ID badge or security keys upon the termination of an individual's employment, transfer, or completion of a project or contract. An additional fee may be requested to cover the administrative cost of processing a lost badge or security key.

II-17 Airport Identification (ID) Badge Requirements

All individuals employed at the Airport with Secured Area access, or working in the Terminal, Concourses or Parking and Ground Transportation facilities, must obtain an Airport ID Badge. Airport ID Badges will be issued by Airport Security. All Airport ID Badges shall be and remain the property of the Airport. The Airport ID Badge must be surrendered on demand to Airport Operations and/or a Contract Security Guard. An individual employed by more than one (1) company, or changing employers, must obtain an Airport ID Badge for each company. Badge color indicates general areas and levels of authorization in relationship with direct support of an individual's job function. Badge color does not determine access. The respective classes of Airport ID Badges, indicated by badge color and associated driving endorsement icon, describe driving privileges in direct correlation with job function.

The individual must complete an application, on a form prepared and currently approved by Airport Security. Two (2) valid forms of identification must be presented with the application, one of which must be a government-issued photo identification. The second form of identification must verify proof of citizenship (i.e., birth certificate or legal residency with work authorization). All information regarding the individual's name, age, gender and other vital statistics on both forms of identification must be consistent and verifiable.

A Denver International Airport Fingerprinting and Badge Application, Security Threat Assessment (STA) and Criminal History Record Check (CHRC) must be completed for everyone requesting an Airport ID Badge. Denver International Airport Fingerprinting and Badge Applications are available from the Airport Security Office. Allow adequate time for processing of the Security Threat Assessments (STA) and Criminal History Record Check (CHRC).

The individual must view a training film on Denver Municipal Airport System Rules and Regulations as they pertain to overall security and pass a corresponding test to assure understanding of the Rules and Regulations.

If the individual requests driver authorization, a valid driver's license must be presented, and the individual must view a training film on Denver Municipal Airport System Rules and Regulations as they pertain to overall Movement of Vehicles in the Secured Area and pass a corresponding test to assure understanding of the Rules and Regulations.

A construction orientation specific to the project must be conducted. A designated time for this session must be coordinated with Planning and Development and Airport Operations.

A lost or stolen Airport ID Badge must be immediately reported to Airport Security. For a replacement Airport ID Badge, a new Denver International Airport Fingerprinting and Badge Application must be completed and signed by the Company(s) Authorized Signatory. A non-refundable fee must be paid for a replacement Airport ID Badge.

If for any reason the Airport ID Badge becomes inoperable or damaged, the Airport ID Badge holder shall return that badge to Airport Security, and a replacement badge will be issued. A replacement fee may be assessed should the damage be attributable to the negligence of the employee who was issued the badge.

When an employee is terminated, the Contractor company shall immediately notify Airport Security. This notification must be followed by the return of the Airport ID Badge and written confirmation of this information. The Contractor company must recover Airport ID Badges from individuals whose employment at the Airport has been terminated. The Contractor company shall notify Airport Security in writing when a subcontractor is no longer under the Contractor company's sponsorship. All Airport ID Badges must be returned to Airport Security.

An employee possessing a valid Airport ID Badge may escort other individuals into the Secured Area(s) under the conditions listed in the Rules and Regulations Part 20. If the project is extended, DEN's Project Manager must submit a new Sponsorship Form with a new expiration date. This can be accomplished thirty (30) calendar days prior to expiration of the Airport ID Badge. An application revision must be completed for each employee still required on the project, if the badges have expired.

II-18 Background Checks

Every individual requesting an Airport ID Badge must complete a Criminal History Record Check (CHRC) and a Security Threat Assessment (STA) for unescorted access to the Sterile and Secured Area(s).

If an applicant has been convicted of a crime or found guilty by reason of insanity or has been arrested for any of the disqualifying crimes or is awaiting judicial proceedings, he/she may be ineligible to obtain an Airport ID Badge. A list of the disqualifying crimes may be found in 49 C.F.R. 1542.209.

II-19 Vehicles in the Secured Area

All Contractor employees who are required to drive in the Sterile and Secured Area(s) unescorted to perform their jobs are required to complete a training film on Denver Municipal Airport System Rules and Regulations as they pertain to overall movement of vehicles in the Sterile and Secured Area(s) and pass a corresponding test to assure understanding of the Rules and Regulations.

All unescorted vehicles must display a current Airport Contractor Vehicle Permit (Permit). Permits are available from Airport Security. An application form must be completed, signed by an Authorized Signatory, and all applicable permit fees must be paid for each Permit requested, and it must be signed by the Authorized Signatory. A Permit is required for each state licensed vehicle, and the vehicle Permit is not transferable.

The Contractor shall purchase and maintain in force a minimum of Ten Million Dollars (\$10,000,000.00) in combined, single-limit automobile insurance for bodily injury and property damage liability per accident or occurrence.

II-20 Violations

Any Contractor employer not regulated under 49 C.F.R. Part 1544, Aircraft Operator, will be responsible for payment or reimbursement to DEN of any Civil Penalties imposed by the Transportation Security Administration (TSA) for individual security violations by their employees and/or subcontractor employees for violations under 49 C.F.R. Part 1542.

A Contractor employee may be personally subject to Civil Penalties imposed by the TSA for individual security violations committed by Contractor employees and/or subcontractor employees under 49 C.F.R Part 1542.

Everyone who is issued an Airport ID Badge shall comply with all Security Advisories, Rules and Regulations Governing the Denver Municipal Airport System Rules and Regulations, the CEO Directives and the Denver International Airport Standard Policies and Procedures regarding Airport Safety, Security and Operations. The failure of any individual to comply with such Security Advisories, rules and directives, etc. will result in the issuance of a Violation Notice and may result in the assessment of a Federal Civil Penalty and/or the denial, suspension or revocation of their Airport ID Badges.

The security status of DEN is subject to change without prior notice. Should the security status of DEN change at any time during the term of the Contract, a written notice shall be issued to the Contractor, detailing all applicable security modifications. The Contractor must take immediate steps to comply with those security modifications.

II-21 Diversity and Inclusivity in City Solicitations

Each Bidder shall, as a condition of responsiveness to this solicitation, complete and return the "Diversity and Inclusiveness in City Solicitations Information Request Form" with their Bid.

Using the "Diversity and Inclusiveness in City Solicitations Information Request Form," please state whether your firm has a diversity and inclusiveness program for employment and retention, procurement and supply chain activities, or customer service, and provide the additional information requested on the form. The information provided on the "Diversity and Inclusiveness in City Solicitations Information Request Form" will provide an opportunity for DEN contractors to describe their own diversity and inclusiveness practices. Bidders are not expected to conduct intrusive examinations of its employees, managers, subcontractors or business partners in order to describe diversity and inclusiveness measures. Rather, DEN simply seeks a description of the Bidder's current practices, if any.

Diversity and Inclusiveness information provided by Bidders in response to DEN solicitations for services or goods will be collated, analyzed and made available in reports consistent with the Mayor's Executive Order No. 101. However, no personally identifiable information provided by or obtained from Bidders will be in such reports.

For DEN to consider a Bid, Bidders must complete the electronic version of the Diversity and Inclusiveness in City Solicitations Form – then <u>print the completed form and include the hard copy as part of its Bid. A</u> <u>Bid or response to a solicitation by a Bidder that does not include this completed form shall be deemed</u> <u>non-responsive.</u> The form is found at: <u>https://fs7.formsite.com/CCDenver/form161/index.html</u>

The Diversity and Inclusiveness Form is separate from the requirements established by the Division of Small Business Opportunity (DSBO) and must always be completed – regardless of whether there are any DSBO goals assigned to this project.

II-22 Wage Ordinances

The services being requested in this IFB may involve services that are covered pursuant to Article IV of Chapter 20 of the Denver Revised Municipal Code ("D.R.M.C."), which is designed to address the issue of wage equity and cost of living affordability in the City & County of Denver. Bidder agrees that any contract with DEN shall include a requirement that Bidder will comply with the provisions of D.R.M.C. relating to

living, minimum and prevailing wages, including, but not limited to, paying all covered workers no less than the City Minimum Wage for all covered services rendered in connection with the resulting contract. Additionally, Bidder agrees that the contract shall require compliance with all current and future federal and state laws and City ordinances.

II-23 Taxes

- 1. <u>General</u>: Bidders shall refer to the General Conditions, G.C. 323 regarding taxes to which Bidder may be subject in performing the Work under this Contract, including but not limited to, sales and use taxes and the Denver Occupational Privilege Tax. The following instructions are to be considered along with the General Conditions and not in lieu of them.
- 2. <u>Sales and Use Tax</u>: Construction and building materials sold to contractors and subcontractors for use on structures, roads, streets, highways and other public works owned by the City at DEN are exempt from state, RTD and Cultural Facilities District sales and use taxes. However, such materials will be subject to sales and use taxes imposed by the City.
- 3. Exemption Certificates Sales and Use Tax: Contractor and Contractor's subcontractors are responsible for applying to apply to the Colorado Department of Revenue (CDOR) for a certificate or certificates of exemption, indicating that their purchase of construction or building materials is for a public project, and to deliver to the City copies of such applications as soon as possible after approval by the CDOR. Bidders shall not include in their Bid amounts the State, RTD and Cultural Facilities District Sales and Use Taxes.
- 4. <u>Denver Occupational Privilege Tax</u>: Any employee working for a Contractor or a subcontractor who earns over Five Hundred Dollars (\$500.00) working in Denver during a calendar month is subject to the payment of the Employee Occupational Privilege Tax. The Contractor and any subcontractor must pay the Business Occupational Privilege Tax for each of its employees who are subject to such tax.

II-24 Conformed Technical Specifications and Contract Documents

If applicable, and when Technical Specifications are included and/or referenced herein, Bidder understands that the Technical Specifications and Contract Drawings included in this IFB have been conformed by the City. The conformed Technical Specifications and Contract Drawings were prepared by posting or otherwise incorporating the changes noted in any addendum(s) into the Technical Specifications and Contract Drawings to form a single set of construction documents.

II-25 Site Inspection and Investigations

Prior to submitting its Bid, the Bidder shall inspect the work site and its surroundings. A site visit may be scheduled following the Pre-Bid Conference as indicated herein. Requests for additional site visits must be made at least ten (10) calendar days prior to the Bid due date, and any visit(s) must be requested via email to <u>contract.procurement@flydenver.com</u>]. For purposes of a Contract, it shall be conclusively presumed that the Bidder has made a thorough inspection of the site and has waived the right to later claim extra payment or time extension(s) for conditions which would have been evident during an inspection or investigation.

Drawings and Specifications which define the Work to be done were prepared on the basis of interpretation by design professionals of information derived from investigations of the work site and site condition data provided by the City. Such information and data are subject to sampling errors, and the interpretation of the information and data depends to a degree on the judgement of the design

professional. In view of this, the Bidder is invited to make additional investigations as the Bidder's judgement dictates the need for such investigations.

Because the Bid information cannot be guaranteed, the Contractor shall have assumed the risks attendant to successful performance of the Work, except for the risk of encountering differing site conditions which are defined in the General Conditions and shall never make claim for additional payments or time extensions on the grounds that the nature or amount of Work to be done was not understood by the Bidder at the time of Bid submission.

II-26 Materials and Substitutions

It is often convenient and practical to specify materials and equipment to be incorporated into the Work by a proprietary name or by the name of its manufacturer. When so specified and further qualified by the phrases "or equal" or "or equivalent," it shall be understood that such specification is not intended to limit the material and equipment selection process. Rather, the specification is intended to indicate a standard of quality and capability which will be accepted. However, all Bidders desiring to use materials other than the specified materials must obtain the written approval of the Project Manager.

Bidders requesting substitutions will submit a Request for 'or Equal' Approval Form contained herein. All requests for approval of equal or equivalent material shall contain adequate technical data to clearly demonstrate equivalency. Requests containing inadequate or incomplete information will not be reviewed.

Any such Request for 'or Equal' Approval Form must be submitted via email to <u>contract.procurement@flydenver.com</u>, must include in the email Subject line: "Request for Substitution" and the IFB name, and the email must be received no later than ten (10) calendar days before the posted deadline for IFB submittals. All approvals of equal or equivalent materials will be posted to the Contract Procurement website as addendum(s) to ensure full and complete disclosure to all potential Bidders. All requests for approval of equal or equivalent material shall contain adequate technical data in order to clearly demonstrate equivalency. Incomplete submittals will not be reviewed.

If the Bidder is awarded the Contract and elects to use an 'or equal' that has been added by addendum(s), the Bidder shall be deemed to have warranted that:

- (1) The use of the 'or equal' fulfills the specification requirements contained in this IFB.
- (2) The installation of the 'or equal' will not impact the spatial requirements for the Work or the scheduling of work performed by the City or other contractors.

Additionally, the Bidder agrees that it shall modify any building system(s) (i.e., HVAC, structural, electrical) impacted by the use of an 'or equal' at no cost to the City or any other contractors under contract with the City and shall make no claims for delay or disruption arising out of such 'or equal' modification.

II-27 Permit Fees

For the construction of this project, the awarded Contractor agrees to pay the permit fees described in General Condition 317 and in the Special Conditions and Technical Specifications.

II-28 Construction Scheduling

The Bidder shall refer to the General Conditions, Special Conditions and Division 013210 of the Technical Specifications for scheduling requirements for this Contract.

II-29 Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion

The Bidder certifies, by submission of its Bid or acceptance of this Contract, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible or involuntarily excluded from participation in any government contract by any Federal, State or local government department or agency. It further agrees by submitting its Bid that it will include this clause without modification in all lower-tier transactions, solicitations, Bids, contracts and subcontracts. Where the Bidder or any lower-tier participant is unable to certify to this statement, it shall attach an explanation to its Bid.

II-30 Bid Guarantee, Bond

As a guarantee of good faith on the part of the Bidder, each IFB must be accompanied by a Bid guarantee consisting of either a certified or cashier's check made payable without condition to the order of the City and County of Denver or a Bid bond written by an approved corporation surety in favor of the City and County of Denver. If the Bidder's IFB submission is responsive and Bidder is awarded a Contract but fails to either (1) execute a Contract in the form prescribed, (2) furnish the Payment & Performance Bonds described in Title 15 of the General Conditions, (3) furnish the required evidence of insurance described in Title 16 of the General Conditions or in the Special Conditions, or (4) satisfy any other condition precedent to Contract execution within its power within five (5) working days after such notice is made by the City, said Bid guarantee shall be forfeited to the City as liquidated damages and not as a penalty. The Bid guarantee shall be in the amount of five percent (5%) of the Maximum Contract Liability Amount.

A Bid Guarantee form for execution by the Bidder is supplied with each set of contract documents. IF A BID GUARANTEE IS USED, IT MUST BE THE FORM OF BID GUARANTEE SUPPLIED WITH THE CONTRACT DOCUMENTS.

Once the awarded Bidder executes a Contract and delivers to the City satisfactory Performance & Payment Bonds and the required insurance documentation and, if applicable, City Council approval of the Contract, the Bid guarantees of non-awarded Bidders will be returned.

II-31 Payment & Performance Bonds

The awarded Contractor will be required to submit Payment & Performance Bonds which guarantees it will fulfill its contractual obligations under this project and guarantees it will pay its subcontractors, material suppliers and/or laborers for any work and materials provided. The amount of the Bonds will be 100% of the Maximum Contract Liability Amount (the full amount of the bid). Should the awarded Contractor default on its obligations and fails to complete the project, a claims process may be initiated. If Contractor is found to be in breach of the Contract, it must compensate the City up to the full amount of the Bonds.

II-32 Project Controls Requirements

Bidder will be required to use the designated Project Management Information System (PMIS) as set forth in the Technical Specifications. The PMIS is Airport Infrastructure Management's (AIM's) tool for project and information management, data analysis and document control. DEN will be responsible for providing the licensing and training for PMIS.

II-33 Equal Employment Opportunity

1. Article III, Division 2 of Chapter 28 applies to this contract. It is the policy of the City to provide equal opportunity in employment without regard to race, color, creed, sex, national origin, religion, marital status, or political opinion or affiliation. It is hereby deemed and declared to be

for the public welfare and in the best interest of the City to require bidders, contractors and subcontractors soliciting and receiving, directly or indirectly, compensation from or through the City, for the performance of such contracts, to meet certain affirmative action and equal employment opportunity requirements. Additionally, contractors and subcontractors that hold any contracts which are federally-assisted shall be required to adhere to the Department of Labor's Contract Compliance program under Executive Order 11246 as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60-4.

- 2. After the Notice to Apparent Low Bidder has been issued, the Apparent Low Bidder shall submit the following to the Division of Small Business Opportunity:
 - (a) A statement that the bidder shall implement the affirmative action steps set forth in the Rules and Regulations and Bid Conditions of the Manager of Public Works pertaining to Equal Employment Opportunity, attached hereto, or the bidder's affirmative action plan which meets these requirements, and
 - (b) A projection of its anticipated workforce for this contract on the attached "EEO Questionnaire." Both of these submittals are required before the Division of Small Business Opportunity will approve the Notice to Proceed.
- 3. The bidder which is awarded this contract shall comply with the provisions and requirements, including the goals of minority and female participation and specific affirmative action steps, set forth in the Rules and Regulations and Bid Conditions of the Manager of Public Works pertaining to Equal Employment Opportunity, as said rules and regulations may be amended or readopted from time to time by the Manager of Public Works or the Director of the Division of Small Business Opportunity.

II-34 Conflicts of Interest

An organizational conflict of interest occurs when, because of the relationship between two organizations or one organization (including its subsidiaries or related organizations) performing or proposing for multiple scopes of work, there is or could be in the future a lack of impartiality, impaired objectivity, an unfair advantage over one or more firms competing for the work, or a financial or other interest in other scopes of work.

If the Submitter currently has existing contracts with the City for work at DEN, including any contracts held by Proposer's parent, affiliates or subsidiary corporations, this could pose a conflict of interest and could place your Proposal in jeopardy of being rejected for conflict of interest. If the Proposer believes a conflict of interest may exist but can be mitigated, please describe the steps it proposes that it will take to mitigate the conflict.

If the City identifies a conflict of interest that is not identified by the Proposer in its response, the City may find the Proposer to be non-responsive. If the City identifies a conflict during the course of the contract and the Proposer failed to disclose such conflict, the City may terminate the contract for cause or convenience at the discretion of the City.

III. PREPARATION OF BID

III-1 Preparation of Bid

The Bid shall be submitted in accordance with and meet all requirements set forth in the Bid Forms, which are attached hereto. The Bidder shall fill in all blank spaces in the applicable Bid Forms and initial all interlineations, alterations or erasures in its Bid. The Bidder shall not delete, modify or supplement the printed matter on the forms which are included in "Attachment 1, Bid Forms" or make substitutions thereon. The Bidder's completed Bid Forms shall constitute its Bid. It shall be conclusively presumed that the Bidder did, before submitting a Bid, read all addenda, posted decisions and other information items relevant to the IFB that appeared on the BidNet Website.

An authorized representative of the Bidder shall execute Attachment 1 of its Bid Forms – the "Bid Letter."

- 1. If the Bidder is a corporation, it shall upon execution of the Contract provide a certificate from the Secretary of State, showing that it is qualified to do business in the State of Colorado. Please call the Secretary of State for Colorado at (303) 894-2200 for information on obtaining such certification.
- 2. If the Bidder is a partnership, the Bidder must include with its Bid evidence satisfactory to DEN that the partner signing the Bid has the authority to do so.
- 3. If the Bidder is a joint venture, the Bidder shall submit with its Bid a notarized copy of the joint venture agreement. That agreement must describe the scope and amount of work each participant will perform and contain a provision that each participant will be jointly and severally liable to DEN for completing all the work and to third parties for all duties, obligations and liabilities which arise out of the joint venture's performance of the work.

III-2 Completing and Signing Bid Forms

Each bidder shall submit the following, completed and executed in accordance with the Contract Documents:

- (1) the Bid Forms, including any additional forms required by any addendum;
- (2) the Bidder's Bid Bond or Bid Guarantee in conformance with II-30; and
- (3) the Diversity and Inclusivity in City Solicitations

The bidder must complete the Bid Forms by legibly writing or printing in ink, words or figures, or both if required all the bidder's offered prices for performing the work. All blank spaces which require a response of the bidder must be properly filled in. In filling out the Bid Forms, the bidder shall avoid making changes to the extent possible, but, if changes are necessary, any interlineation, white outs, or erasures shall be initialed.

For any contracts containing unit prices, the bidder shall specify in the Bid Forms a unit price for each item for which a quantity is given and shall write in figures the products of the respective unit prices and quantities in the "Amount" column provided for that purpose.

Each bidder must sign the Bid Forms and give the bidder's current business address and contact information as noted. If an individual, the signature must be of the individual offering the bid; if a partnership, the signature must be that of a general partner; and if a joint venture, by each joint venture participant in their individual capacity as a corporation, partnership, or individual; if a corporation, both

the president or a vice president and the secretary must sign and the seal of the corporation must be affixed. Signatures of other persons may be acceptable if the Bid contains evidence satisfactory to the CEO to prove that the other persons are authorized to bind the bidder.

Bidder shall submit its Bid Data Information in accordance with the format shown on each of the Bid Data Forms. Bidder shall prepare and use as many sheets as are necessary to provide the information required. Bidder shall ensure that each page of its Bid Data is completed and properly identified with the Bid Data form name, Bidder's name, and page number.

IV. EVALUATION OF BIDS

IV-1 BASIS FOR SELECTING THE APPARENT LOW BIDDER

The selection of the Apparent Low Bidder will be made on the basis of the lowest responsive bid by a qualified bidder whose bid complies with all of the requirements prescribed herein. The lowest bidder shall be determined by the Total Base Bid Amount. This selection shall be subject to the approval of such resulting contract in accordance with the Charter and ordinances of the City and County of Denver.

If add alternates are listed in the Bid Documents, the Apparent Low Bidder will be chosen based solely on the lowest responsive Total Base Bid Amount.

IV-2 SUBMITTAL OF BIDS

There will be no live bid opening for this project. Bids shall be submitted electronically via the Rocky Mountain E-Purchasing System (BidNet) website at:

https://www.bidnetdirect.com/colorado/cityandcountyofdenverdepartmentofaviation

Following electronic submittal of bid (including a scan of the bid bond), the original bid bond must be received by mail within seven (7) calendar days of bid opening date to be considered part of a responsive bid. Bid bonds shall be mailed to Denver International Airport, 8500 Peña Blvd., Denver, CO 80249-6340, Attention: Tony Deconinck. At this time, bid bonds cannot be hand-delivered in person.

IV-3 UNACCEPTABLE BIDS

The City will not accept Bids from bidders in arrears to the City upon debt or contract, or which are defaulters (as surety or otherwise) upon any obligation to the City, or that are deemed irresponsible or unreliable by the CEO. A history or pattern of litigation against the City and County of Denver by any bidder, proposed subcontractor, interested party, or any person, firm, or corporation affiliated with any bidder, among other items, will be considered by the CEO in determining the responsibility and reliability of bidders. Bidders may be required to submit satisfactory evidence that they have a practical knowledge of the particular work bid upon and that they have the necessary financial resources to complete the proposed work.

IV-4 ONLY ONE BID ACCEPTED

The City will accept only one Bid for the same work from any one bidder. This includes Bids that may be submitted under different names by one firm or corporation. Evidence of collusion among bidders shall be grounds for exclusion of any bidder who is a participant in any such collusion.

IV-5 CONSIDERATION OF BIDS

After the Bids are opened and read and any discrepancies have been reviewed, bids will be compared based on the Total Contract Bid Amount written on the Bid Letter.

If a discrepancy exists between a price or amount written in words and the price or amount written in figures, the price or amount written in words shall govern, except that in the case where a price or amount shown in figures has been crossed out and replaced with a new, legible, initialed figure, the initialed figure shall govern.

Any bid discrepancies which the City corrects in accordance with the general rules described above shall be corrected with the understanding that the Apparent Low Bidder waives any claims against the City because of the bidder's mistakes in its bid. The City reserves the right to waive informalities, to reject any and all bids, and to advertise for new bids where it is in the best interest of the City. The City also reserves the right to negotiate terms of the contract.

IV-6 INFORMAL AND UNBALANCED BIDS

Bids shall be considered informal and may be rejected for the following reasons:

- (a) If the bid is on a form other than the Bid Forms furnished by the City, or if the form is altered or any part thereof is detached.
- (b) If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the bid incomplete, indefinite, or ambiguous.
- (c) If the bidder fails to acknowledge in the bid receipt of any or all addenda current on the date of opening of bids.
- (d) If the bid does not contain a unit price or lump sum amount for each item listed except in the case of authorized alternative items.
- (e) If there is an interlineation, white out, or erasure in the Bid Forms.
- (f) If the bid is unbalanced so that (1) each pay item does not reasonably carry its own proportion of cost, or (2) any pay item contains an inadequate or unreasonable price.

IV-7 NOTICE TO APPARENT LOW BIDDER – EXECUTION OF CONTRACT

The Apparent Low Bidder will be given written notice of such status on the form included in the Bid Documents within ninety (90) days from the date of opening of bids.

The Apparent Low Bidder shall execute the contract and return it to the City along with the required bonds and insurance forms within ten (10) business days from and including the date of the Notice to Apparent Low Bidder. When the executed contract and the required bonds and insurance certificates are received, approval for the City to contract with the Apparent Low Bidder shall be sought in accordance with the Charter of the City and County of Denver. Such notice shall not create any rights in the Apparent Low Bidder to any contract with the City.

END OF INSTRUCTIONS TO BIDDERS

V. <u>SPECIAL CONDITIONS</u>

SC-1 CONSTRUCTION CONTRACT GENERAL CONDITIONS

The Construction Contract General Conditions which constitute a part of the Contract Documents are set forth in a separately published document, entitled "City and County of Denver, Department of Aviation and Department of Public Works, Standard Specifications for Construction, General Contract Conditions," 2011 Edition, the Table of Contents to which is bound herein (which may be informally referred to as the Yellow Book). The General Conditions book is available for purchase for \$12.00 per copy at the following locations during the business hours stated, Monday through Friday, excluding holidays:

Office of the Cashier Wellington E. Webb Municipal Office Building, 2nd Floor 201 West Colfax Avenue Denver, Colorado, USA 80202 7:30 a.m. to 4:30 p.m.

The General Conditions are also available on the City and County of Denver website at:

https://www.denvergov.org/content/denvergov/en/contract-administration/contractorresources/general-contract-conditions.html

SC-2 DRAWINGS AND SPECIFICATIONS TO BE FURNISHED BY THE CITY

The City will provide the following Contract Documents to the Contractor in electronic format at no expense to the Contractor:

Taxiway EE IFB Drawings Taxiway EE IFB Division 1 & Division 2 Specs TW EE Construction Safety and Phasing Plan

Additional copies of the foregoing documents will be furnished to the Contractor at the Contractor's expense. The Contractor will be responsible for supplying all subcontractors with copies of the Contract Documents at its expense.

If Sensitive Security Information ("SSI") is provided to the Contractor, the Contractor shall be required to comply with Department of Aviation, Standard Policies and Procedures No. 6003, "Contractor Protection of Sensitive Security Information," or its successor, and 49 C.F.R. § 1520, or its successor.

The City will not supply any copies of the General Contract Conditions to the Contractor at City expense.

SC-3 REVISIONS TO G.C. 201

The second sentence of General Condition 201 is amended to read: "The unit responsible for this management and control is the Airport Infrastructure Management Office under the supervision of the Senior Vice President for Maintenance and Airport Infrastructure Management."

SC-4 CITY LINE OF AUTHORITY AND CONTACTS

In accordance with General Condition 214, the City's line of authority for administration of this Contract is:

<u>Chief Executive Officer (CEO)</u>. Executive Office, 9th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249. Any reference to the Manager of Aviation shall also mean Chief Executive Officer, Department of Aviation (CEO).

<u>Executive Vice President – Chief Operating Officer (EVP-COO)</u> who reports to the CEO. Airport Infrastructure Management office, 9th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Senior Vice President - Airport Infrastructure Management (SVP-AIM)</u> who reports to the COO. Airport Infrastructure Management office, 10th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Director of Infrastructure and Quality Assurance,</u> reports to the SVP-AIM. The Project Manager reports to the Director of Infrastructure and Quality Assurance. Airport Infrastructure Management Division, 7th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249.

<u>Project Manager</u>, the City representative who has day to day administrative responsibility of this Contract, and who reports to the SVP-AIM. All notices, requests, pay applications (pursuant to G.C. 902), and other correspondence from the Contractor shall be sent to the assigned Project Manager unless otherwise provided in this Contract. The Project Manager for this Contract is: Brent Nichols, Airport Infrastructure Management Office, 7th Floor, Airport Office Building, 8500 Peña Boulevard, Denver, CO 80249, phone 303-342-2200.

The CEO may from time to time substitute a different City official as the designated "SVP-AIM" hereunder, and any such change will be effective upon the issuance of written notice to the Contractor which identifies the successor SVP-AIM. The SVP-AIM may from time to time change the assigned Project Manager, and any such change will be effective upon the issuance of written notice to the Contractor which identifies the successor Project Manager.

SC–5 CONTRACTOR PERFORMANCE; SUBCONTRACTING

With respect to General Condition 501, no more than ninety-five percent (95%) of the work may be subcontracted. If it is determined to be in the City's best interest, this percentage may be modified throughout the course of the project by the SVP-AIM.

SC–6 COOPERATION WITH OTHERS

The Technical Specifications describe the constraints on the physical work site areas. These descriptions are not exhaustive, and the Contractor is required to coordinate its activities and work as may be required to meet FAA or City requirements while performing work on DEN.

Without limiting the foregoing, the following contracts administered by the City involve or may involve work overlapping or adjoining the Work under this Contract and may be prosecuted concurrently with the Work performed under this Contract. There may also be other adjoining or overlapping contracts which are not listed.

Contract Number	Description
201732479	Runway 8-26 Pavement Rehabilitation
201846271	Runway 17R-35L Pavement Rehabilitation
201952248	Runway 17R-35L Pavement Rehabilitation, Package 2

SC–7 PROSECUTION AND COMPLETION OF THE WORK:

The Work to be performed under the Contract is described in the Technical Specifications and Contract Drawings. The Contractor shall complete the Work within 607 consecutive calendar days from Notice to Proceed.

The Work to be performed under the Contract may be divided into the Milestone Areas which are described in the Technical Specifications or Contract Drawings. The Contractor shall complete the work included within these areas within the number of days set forth by the Project Manager.

	Milestone	Date of Completion (or, days from NTP)
1.	Taxiway M Connection	242 calendar days from NTP
2.	Taxiway L Connection	242 calendar days from NTP
3.	Taxiway ED Connection	607 calendar days from NTP
4.	Substantial completion	607 calendar days from NTP

SC–8 LIQUIDATED DAMAGES

If the Contractor fails to achieve Substantial Completion of the Work within the Contract Time, the Contractor shall be liable to the City for liquidated damages at the rate of Five Thousand Dollars (\$5,000.00) per day until substantial completion is achieved.

	Milestone	Liquidated Damages, per day
1.	Taxiway M Connection	\$5000.00
2.	Taxiway L Connection	\$5000.00
3.	Taxiway ED Connection	\$5000.00
4.	Substantial completion	\$5000.00

Article IV of the Contract and General Condition 602 cover payment and withholding of liquidated damages.

SC–9 FACILITY SECURITY AND PERSONNEL ACCESS

The Contractor shall conduct all its activities at the Airport in compliance with the Airport security system rules and regulations, which are administered by the Airport Operations Division. The Contractor shall obtain the proper access authorizations for its employees, subcontractors and suppliers (i.e., Badges and Permits), and shall be responsible for such persons' compliance with all the Airport rules and regulations. A copy of the Contractors' section of the Airport Security rules and regulations are available for Contractor review at the Airport Access Services Office, Concourse A East Subcore, 4th Level. Persons regularly entering the construction areas must obtain personnel access badges from the Airport Access Services Office and must display badges, at all times, upon entering the construction, restricted and sterile areas of the airport. Any employee, subcontractor or supplier who violates such rules may be subject to revocation of his access authorization, including authorization for access to the construction site and all other restricted and sterile areas.

The security status of the Airport is subject to change without notice. These contract Special Conditions are applicable to the current security status of the Airport. Should the security status of the Airport change at any time during the term of this Contract, a written notice shall be issued to the Contractor detailing all applicable security modifications from the airport's current security status. The Contractor shall take **immediate steps** to comply with those security modifications as directed in the written notice.

If these security modifications involve any additional project cost, the Contractor shall submit a Contractor Change Request in accordance with the General Conditions for the additional cost. The Contractor Change Request shall outline in specific detail the effects of the security modifications on the Contractor's performance of the Contract, and shall provide a detailed cost breakdown for each item for which the Contractor is requesting reimbursement.

The Contractor shall return to the City, at contract completion or termination, or upon demand by the City, all access keys issued to it by the City to all areas of the Airport. If the Contractor fails to return any such key or keys at contract completion or termination or upon demand by the City, the Contractor shall be liable to the City for all the City's costs, including the City's labor costs for employees, incurred in recoring doors and any other work which is required to prevent compromise of the Airport security system. In order to collect such costs hereunder, the City may withhold funds in such amount from any amounts due and payable to the Contractor under this Contract.

The construction of all the Project / Task Items that involve the breaching of any airport perimeter security boundary or continued access to restricted access rooms or areas will require the posting of authorized contract security personnel to maintain required security controls. The Contractor's Total Contract Bid Amount shall include the cost of providing security services to maintain control and supervision of any and all airport perimeter security boundary breaches and for the duration of work activities where access to restricted areas is required and until the airport perimeter security boundaries are reestablished.

When security boundaries are opened for any reason, the Contractor must maintain one hundred percent (100%) control and supervision for the entire time that the openings are present to prevent unauthorized access to the secure / restricted access areas.

THE IMPORTANCE OF THIS SPECIAL CONDITION CANNOT BE OVER-EMPHASIZED. SEVERE FINANCIAL PENALTIES AS WELL AS CONTRACT TERMINATION COULD RESULT IF AIRPORT PERIMETER SECURITY REQUIREMENTS ARE NOT STRICTLY FOLLOWED. THE REQUIREMENT TO PROVIDE ONE HUNDRED PERCENT (100%) CONTROL AND SUPERVISION OF BREACHES IN THE AIRPORT'S PERIMETER SECURITY BOUNDARY IS ABSOLUTE. AT NO TIME, DURING WORK AND NON-WORK HOURS SHALL ANY BREACHES IN THE AIRPORT'S SECURITY PERIMETER BE UNSUPERVISED AND / OR UNSECURED.

For off-hours of construction, the Contractor may choose to erect a temporary wall to close all perimeter openings. The wall construction shall be of sufficient materials and strength to prevent access to the airport's Sterile/Restricted Areas. The Contractor shall submit for review and approval, the details and materials for the temporary closure of security perimeter breaches for review and approval.

The Contractor will provide contract security guard services to maintain supervision of these openings. The security services must provide coverage to allow for lunch breaks, comfort breaks and etc. The security services **must** be obtained from the following contract security guard company: HSS 900 S. Broadway, Suite 100 Denver, Colorado 80209

DEN Contact: Glenn Spies (303) 342-4323

All security guards provided for this project must have a Denver Airport SIDA Badge.

The DEN Security Guard Contractor may change between the bidding or Bid phase of this contract from Notice to Proceed to closure of all security perimeter breaches. The Contractor shall maintain a contractual relationship with the Security Guard Contractor holding the most current contract with Denver International Airport.

The Contractor shall continue to provide security of these areas until such time that the breaches in the airport's security perimeter have been permanently secured.

The Contractor shall submit a written security plan for approval to the Director of Airport Security prior to the start of construction on any work where a breach of the perimeter security boundaries is required.

SC-10 CONSTRUCTION ACCESS

The work site is located east of Taxiway M and north of Taxiway ED. The Contractor shall have access to the work site via Gate 4. The Contractor is responsible for ensuring all of the Contractor's and Subcontractor's personnel have the ability to access and locate the areas of work where the scope is to be performed without additional escorting or supervision from DEN.

The City will not provide parking spaces for the Contractor's employees or subcontractor employees at the Airport. Arrangements for transportation and parking for all of its and its subcontractors' employees will be the responsibility of the Contractor. The Total Contract Bid Amount or Contract Amount shall include any and all costs associated with the Contractor's and subcontractors' employee parking. Information about parking facilities and charges is available from the Airport Parking Office. Refundable deposits are required for all parking passes.

Unless specifically required by the Contract Documents, the Contractor shall install no fences or other physical obstructions on or around any project work area without the approval of the City.

SC-11 VEHICLE PERMITTING

Vehicle access on the Airport Operation Area ("AOA") is controlled by and requires permission from the Airport Access Services Office. It is not anticipated that the Contractor will need to operate vehicles on the AOA to perform the Work. Only direct construction support vehicles and/or equipment will be allowed in the contractor's work areas or sites.

SC-12 VENDORS AND SUPPLIERS

The Contractor shall provide the Project Manager's office with a list of its equipment/material vendors and suppliers. Vendors or suppliers shall access the construction work areas via the Contractor's access route, described in SC-10 above. All delivery vehicles are subject to search.

SC-13 COMMUNICATION DEVICES

Any site communications devices, mobile communication devices or internet data devices used at DEN must be approved by DEN Technologies.

SC-14 USE, POSSESSION OR SALE OF ALCOHOL OR DRUGS

The Contractor and its officers, agents, and employees shall cooperate and comply with the provisions of Executive Order No. 94 and Attachment A thereto concerning the use, possession, or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in the City's barring the Contractor from City facilities or participating in City operations.

SC-15 ATTORNEYS' FEES

Colorado Revised Statute 38-26-107 requires that in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to the Contractor sufficient funds to insure the payment of any such claims. Should the City and County of Denver be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, Contractor agrees to pay to the City its costs and a reasonable attorney's fee. Because the City Attorney Staff does not bill the City for legal services on an hourly basis, Contractor agrees a reasonable fee shall be computed at the rate of two hundred dollars per hour of City Attorney time.

SC–16 INSURANCE REQUIREMENTS

In accordance with the provisions of Title 16 of the General Conditions, the minimum insurance requirements for this contract are set forth in Section II-14 of the Instructions to Bidders. The Contractor specifically agrees to comply with each condition, requirement or specification set forth in the attachment for each required coverage during all periods when the required coverages are in effect.

Contractor and sub-contractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, required insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or sub-contractors.

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

The City and County of Denver in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this Contract by the Contractor, his agents, representatives, employees or sub- contractors. The Contractor shall assess its own risks as it deems appropriate and/or prudent, maintain higher limits and/or broader coverages. The Contractor is not relieved of any liability or other obligations assumed or pursuant to the Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration or types.

Contractor shall furnish the City and County of Denver with certificates of insurance (ACORD form or equivalent approved by CCD) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the City before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure

to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of the Contract. All insurance coverages for sub-contractors shall be subject to the minimum requirements identified in the Exhibit. All sub-contractors' certificates and endorsements shall be received and approved by the Contractor before work commences. The City reserves the right to request copies of these certificates at any time.

All certificates required by this Contract shall be sent directly to <u>ContractAdminInvoices@flydenver.com</u>. The City project/contract number and project description shall be noted on the certificate of insurance. The City reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.

The parties hereto understand and agree that the City and County of Denver, its officers, officials and employees, are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 - 120, C.R.S., or otherwise available to the City and County of Denver, its officers, officials and employees.

SC-17 SUBCONTRACTOR RELEASES

The release form referred to in General Condition 907 is attached to this Contract. It is entitled "Denver International Airport Partial Release."

SC-18 ADDITIONAL AFFIRMATIVE ACTION REQUIREMENTS, FEDERAL PROVISIONS

This contract is subject and subordinate to the terms, reservations, restrictions, and conditions of any existing or future agreements between the City and the United States, the execution of which has been or may be required as a condition precedent to the transfer of federal rights or property to the City for airport purposes, and the expenditure of federal funds for airport purposes. The "Federal Requirements" section attached hereto is made a part of this Contract.

SC-19 ESTIMATED QUANTITIES OF UNIT PRICED ITEMS

The "total estimated quantity" of each unit price item as stated on the bid schedules shall be the estimated quantity which is used to determine the percentage of change in such item for purposes of G.C. 1104.7.

SC-20 REVISIONS TO G.C. 1102

G.C. 1102.2 is amended by replacing the phrase "Change Request" in all its occurrences in such G.C. with the phrase "Change Notice."

G.C. 1102.3 is amended by replacing the phrase "Field Order/Change Order Directive" in all its occurrences in such G.C. with the phrase "Change Order Directive."

SC-21 LISTING OF ACCEPTABLE MANUFACTURERS

The Technical Specifications list "Acceptable Manufacturers" for certain products. Such listing identifies manufacturers of certain products which have been determined by a preliminary review to be able to meet the basic product and/or system technical requirements. The listing is not intended to provide a blanket endorsement or acceptance of the manufacturer's specified products or product line. All products from listed manufacturers must meet the detailed requirements of the Technical Specifications. Products that do not meet all detailed Technical Specifications are not acceptable and will be rejected, regardless of whether the manufacturer was listed as "acceptable." The Contractor is responsible for determining the acceptability of all products under the Technical Specifications prior to submission of products for

approval.

SC-22 ACCESSIBLE PARKING SPACES, ACCESS AISLES AND ROUTES OF TRAVEL

If any Work is performed in or adjacent to parking facilities at the Airport, the Contractor is responsible for compliance with this SC-30. "Accessible" parking spaces and access aisles as used in this SC-30 mean parking spaces and access aisles which are accessible for, and reserved for use by, persons with disabilities. These parking spaces and access aisles are designed and built to standards established by federal regulations implementing the Americans with Disabilities Act of 1990 ("ADA"), and are marked by signage. "Accessible routes of travel" as used herein means routes through parking facilities which comply with ADA accessibility standards, including degree of slope and absence of obstructions.

Accessible routes of travel and accessible parking spaces and access aisles must be kept free of obstructions and construction debris at all times. No accessible parking spaces or access aisles or accessible routes of travel shall be relocated, blocked or rendered unusable unless the contractor has obtained specific advance approval in writing for such actions from the airport's ADA Compliance Officer.

When prosecution of the Work requires that accessible spaces be temporarily blocked, those accessible spaces and their access aisles shall be temporarily relocated to another location as close as possible to an accessible building entrance. Temporary signage that identifies these parking spaces and access aisles as reserved for the handicapped shall be installed, and the accessible route shall be clearly marked as required.

Before blocking or relocating accessible parking spaces or accessible routes of travel, the contractor must obtain written approval from the DEN ADA Compliance Officer, by submitting a completed request form, which will be provided to the Contractor by the Project Manager at the preconstruction meeting if it is not included as a standard form in Section 019990 of the Technical Specifications. The request shall include the location of alternative spaces and/or routes, and specifications of the temporary signage to be used. Work shall not proceed without this approval.

If a vehicle is parked in any accessible space which is either temporary or approved to be relocated, the contractor will not remove signage or take any other action which would allow the access aisle for such parking space to be blocked. Such actions must be postponed until the parking space is no longer occupied.

SC-23 SUBCONTRACTOR PAYMENTS AND SUBCONTRACTOR RELEASES – REQUIRED USE OF THE B2G CONTRACT MANAGEMENT SYSTEM

The Contractor is required to use the City B2G Contract Management System to report all subcontractor payments and shall adhere to the City's Procedure for Reporting Subcontractor Payments. It is the Contractor's obligation to ensure that complete subcontractor information is entered into the B2G System prior to submission of the first application for payment in order to avoid any delays in payment. The Contractor shall, prior to the submission of each subsequent invoice, ensure payments to subcontractors have been entered into the B2G System, including subcontractor confirmation of amount of payment received, for services performed during the prior billing period.

SC-24 PAYMENTS TO CONTRACTORS

The Contractor recognizes and agrees that applications for payment shall be submitted using the Textura[®] Payment Management System (PPM System), which will also be the payment mechanism to

disburse payments to sub-contractors used on this Project. For more information, please refer to Division I, Technical Specifications.

The Contractor further agrees that, to the fullest possible within the TPM System, the City shall be entitled to all non-Confidential records, reports, data and other information related to the project that are available to Contractor through the TPM System, including, but not limited to, information related to Contractor billings. To that end, Contractor agrees that it will activate any available settings within the TPM System that are necessary to grant the City access to such non-Confidential information related to the contract and the project. Applications for payment shall be based on the Contract Unit Prices or the approved Schedule of Values described in GC 903.1

In accordance with General Contract Condition 902, PAYMENT PROCEDURE, the party(ies) responsible for review of all Pay Applications shall be:

Agency/Firm

DEN Division CA DEN Division PM DEN Division Director DEN Contract Services CA CCD Denver Prevailing Wage

In accordance with General Contract Condition 906, APPLICATIONS FOR PAYMENT, each Application submitted shall include the following:

- 1. The estimate of Work completed shall be based on the approved schedule of values or unit prices, as applicable, and the percent of the Work complete.
- 2. Each Application for Payment shall include each and every independent subcontractor's payroll information including pay dates and pay amounts.
- 3. The Contractor shall also submit to the Auditor and other appropriate officials of the City in a timely fashion, information required by General Contract Condition 1004, REPORTING WAGES PAID.

In accordance with General Contract condition 907, RELEASES AND CONTRACTORS CERTIFICATION OF PAYMENT, Applications for Payment must be accompanied by a completed Partial or Final Claim Release Form, as appropriate, from EACH subcontractor and supplier, <u>AND</u> the Contractor's Certification of Payment Form.

VI. ATTACHMENT 1, BID FORMS

Attachment 1, Part 1 Bid Acknowledgement Letter

CONTRACT NAME: Taxiway EE Construction Contract No.: 202158849 Bid Letter

BIDDER

Chief Executive Officer City and County of Denver Business Management Services (Procurement) Office Airport Office Building, Room 8810 Denver International Airport 8500 Peña Boulevard Denver, Colorado 80249

This letter is in response to the Notice of Invitation for Bids first published on July 1, 2021, for Contract No. 202158849, Denver International Airport, Taxiway EE Construction.

This contract is for: construction of a new taxiway (TW) EE and associated infrastructure. This taxiway will be located north and parallel to existing Taxiway ED, leading from Taxiway L, across Taxiway M, eastbound to the departure threshold of Runway 17L via extended Taxiway P7. The scope of work will include grading, drainage, utility relocation, airfield paving, airfield pavement marking, airfield electrical, and signage.

The undersigned Bidder declares that it has carefully examined the location of the proposed work and has carefully read and examined all of the Contract Documents which include, but are not limited to, the Contract Drawings, Technical Specifications, Construction Contract General Conditions, Special Conditions, Instruction to Bidders, and EEO provisions, and hereby proposes to furnish all labor, materials, equipment, tools, transportation and services, and to discharge all duties and obligations necessary and required to perform and complete the Work as required in the Contract Documents which are provided herewith and by this reference made a part hereof for the prices shown in the bid forms and totaled below:

TOTAL BASE BID Amount:		
	Dollars and	Cents
(\$).		

The undersigned acknowledges receipt, understanding and full consideration of the following addenda to the Contract Documents:

Addenda Nos.:

The undersigned agrees that this bid is a firm offer to the City to perform and complete the Contract described above which cannot be withdrawn for one hundred twenty (120) calendar days after the bids are opened or until after a contract for the work described in these bid documents is fully executed by the City, whichever date is earlier.

The undersigned Bidder hereby agrees to appear at Denver International Airport, Business Management Services Office, Room 8810, Airport Office Building, at any time within ten (10)) business days from the date of a written notice from the CEO to do so, mailed, emailed, or faxed to the business address of Bidder and at that time the Bidder shall: (1) deliver an executed Contract which conforms with this bid; (2) furnish the required performance and payment bonds in the sum of the Total Contract Bid Amount shown above, executed by a surety company acceptable to the CEO; and (3) furnish the required insurance documents.

Enclosed herewith is a bid guarantee, as defined in the Instructions to Bidders, in the amount of which bid guarantee the undersigned Bidder agrees is to be paid to and become the property of the City as liquidated damages should the bid be considered to be the best by the City and the undersigned Bidder notified that it is the apparent low bidder and it fails to enter into contract in the form prescribed and to furnish the required performance and payment bonds and evidences of insurance within ten (10) business days as stipulated above.

Attached and incorporated herein are the proposed Schedule of Prices and Quantities and Bid Data Forms. All of the forms must be completed. Bidder acknowledges that the City may incorporate, at its option, any or all of the data submitted by the Bidder into a contract arising out of this Bid.

The undersigned Bidder acknowledges the right of the City to waive informalities in the bids, to reject any or all bids submitted, and to re-advertise for bids.

The undersigned certifies that it has examined and is fully familiar with all of the provisions of the Contract Documents and is satisfied that they are accurate; that it has carefully checked all words and figures and all statements made in these Bid forms; and that it has satisfied itself with respect to the actual site conditions and the nature and location of the Work, the general and local conditions which may be encountered in the performance of the Work, and other matters which in any way affect the Work or the cost thereof.

[CERTIFICATION AND SIGNATURE ON FOLLOWING PAGES]

This bid is submitted upon the declaration that neither, I (we), nor, to the best of my (our) knowledge, none of the members of my (our) firm or company have either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

Dated this day of	,
BUSINESS ADDRESS OF BIDDER:	
City, State, Zip Code:	
Telephone Number of Bidder:	()
Fax Number of Bidder:	()
Social Security or Employer Id. No. of B	idder:
Email Address:	
SIGNATURE OF BIDDER:	
	PRINT NAME OF BIDDER:
Attest:	
(Corporate Seal)	
	Ву:
Secretary	President

Attachment 1, Part 2 Disclosure of Legal and Administrative Proceedings and Financial Condition

City and County of Denver Denver International Airport (Please use this form)

If no disclosure required in accordance with II-13, please sign affirmation statement.

The undersign affirms that _______(Bidder) has not been involved in any legal or administrative proceedings which involve a claim in excess of Fifty Thousand Dollars (\$50,000.00); has not filed bankruptcy within the last ten (10) years; has not been debarred or suspended from bidding/proposing on any Federal, State or local government procurements; and neither the Bidder nor its key employees have been convicted of a bid/Bid-related crime, violation or felony in the last five (5) years.

Signature	Title	
Print Name		
Date		

If disclosure is required in accordance with II-13, please use the following space to provide information. If additional space is needed, please attach additional pages.

Attachment 1, Part 3 Contract Information

- 1. Name of Bidder/Contractor: _____
- 2. Type of business entity: ______

NOTE: If bidder is a partnership or joint venture, give full names of all partners or joint venturers. Bid must be signed by all joint venturers. If bidder is a limited liability company, bid must be signed by authorized manager (may be signed by member-manager if LLC is organized to allow management by members).

3. Prequalified by City and County

of Denver as Construction Contractor : Categories:_____

Monetary Limit:

Fax: _____

4. Address of Contractor:

Email Address:	

5. Established where and when:

Telephone:_____

6. Contractor's Banks:

7. Principal Officers of Contractor (managers and members if LLC):

Name:	Name:
Title:	Title:
Name:	Name:
Title:	Title:

Page 38 Attachment 1, Part 3 Contract Information

License No.:

8.	Bidder's/Contractor's City and County of
	Denver Contractor License if it has obtained
	one:

one:	Class:
A contractor license is required pric submittal.	or to start of construction but not prior to bid
Bidder's/Contractor's state of in partnership):	corporation (state of organization if an LLC o
Bidder's Surety:	
Surety's State of Incorporation:	
Address of Contractor in other areas (if different from No. 4):	
Name and address of person to receive payments:	
	A contractor license is required pricesubmittal. Bidder's/Contractor's state of in partnership): Bidder's Surety: Surety's State of Incorporation: Address of Contractor in other areas (if different from No. 4): Name and address of person to

14. If the Bidder/Contractor is a joint venture, it shall attach a certified copy of the joint venture agreement. The joint venture agreement will not be included as a Contract Document.

15. The Bidder/Contractor shall identify all applicable labor agreements (if any) to be used in the performance of the Work:

Attachment 1, Part 4 List of Proposed Non-DBE Subcontractors

Bidder Company Name:	
IFB Name:	Taxiway EE Construction
IFB No.:	202158849

Bidder shall list below the name, business address, work assignment and dollar value of each subcontractor that is **not** a DBE subcontractor that will perform work or labor or provide services to the Bidder relating to this Contract in an amount greater than one and one-half percent (1.5%) of the Bidder's total bid. Only one (1) subcontractor for each portion of the work shall be listed. Any proposed subcontractors to be utilized by the Bidder that are certified as a Small Business Enterprise (SBE) shall <u>also</u> be listed on the "List of Proposed Subcontractors" attached to this IFB.

If the Bidder does not identify a subcontractor to perform portions of the work which could be subcontracted on this form or the <u>List of Proposed DBE Subcontractors</u>, the Bidder, if it is awarded the Contract, agrees not to subcontract such portions that exceed one and one-half percent (1.5%) of the total bid amount until the Contractor has advised the SVP of AIM in writing of the reasons why the subcontractor was not listed in the Bid submission and complied with the requirements of General Condition 502.

If the Bidder is awarded the Contract and does not enter into a subcontract with a subcontractor listed below or on the <u>List of Proposed DBE Subcontractors</u>, the Bidder agrees not to subcontract any of the work assignment identified for that subcontractor until the Bidder has advised the SVP of AIM in writing of the reasons why a different subcontractor is being used and has obtained approval.

Subcontractor Information	Work Assignment	Subcontract Dollar Value
Name:		
Address:		
Phone:		
Name:		
Address:		
Phone:		

Name:		
Address:		
Phone:		
Name:		
Address:		
Phone:		
Name:		
Address:		
Phone:		
Name:	_	
Address:		
Phone:		

This page can be duplicated if additional sheets are required

Attachment 1, Part 5 Certification of Non-Segregated Facilities

The Bidder must certify that it does not maintain or provide for its employees any segregated facilities at any of its establishments and that it does not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Bidder certifies further that it will not maintain or provide for its employees segregated facilities at any of its establishments and that it will not permit its employees to perform their services at any location under its control, where segregated facilities are maintained. The Bidder agrees that a breach of this certification is a violation of the equal opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin because of habit, local custom or any other reason. The Bidder agrees that (except where it has obtained identical certification from proposed subcontractors for specific time period) it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding Ten Thousand Dollars (\$10,000) which are not exempt from the provisions of the equal opportunity clause and that it will retain such certification in its files.

Dated: _____

Bidder Company Name: _____

Ву: _____

Title:

Attachment 1, Part 6 Equal Opportunity Report Statement

The Bidder shall review, complete, sign and submit with its Bid this Equal Opportunity Report Statement (Statement). A Bid may be considered unresponsive and may be rejected, in the City's sole discretion, if the Bidder fails to provide the fully executed Statement or fails to furnish required data. The Bidder shall also, prior to award, furnish such other pertinent information regarding its own employment policies and practices as well as those of its proposed subcontractors as the FAA, the Owner or the Executive Vice Chairman of the President's Committee may require.

The Bidder shall furnish similar Statements executed by each of its first tier and second-tier subcontractors and shall obtain similar compliance by such subcontractors before awarding subcontracts. No subcontract shall be awarded to any non-complying subcontractor.

Equal Opportunity Report Statement as Required in 41 CFR 60-1.7(b)

The Bidder shall complete the following statements by checking the appropriate blanks. Failure to complete these blanks may be grounds for rejection of Bid:

- 1. The Bidder has ____ has not ____ developed and has on file at each establishment affirmative action programs pursuant to 41 CFR 60-1.40 and 41 CFR 60-2.
- 2. The Bidder has ____ has not ____ participated in any previous contract or subcontract subject to the equal opportunity clause prescribed by Executive Order 11246, as amended.
- 3. The Bidder has ____ has not ____ filed with the Joint Reporting Committee the annual compliance report on Standard Form 100 (EEO-1 Report).
- 4. The Bidder does _____ does not _____ employ fifty (50) or more employees.

Dated:

Bidder Company: _____

By: ______

Attachment 1, Part 7 Bid Bond

Bidder_____

DENVER INTERNATIONAL AIRPORT Taxiway EE Construction Contract No. 202158849

Bid Bond

KNOW ALL MEN BY THESE PRESENTS

THAT	/	as	Principal,	and
, а со	rporation orgar	nized and ex	kisting under and b	oy virtue
of the laws of the State of	, and authoriz	ed to do bu	usiness within the	State of
Colorado as Surety, are held and firmly bound unto	o the City and Co	ounty of De	nver, Colorado, as	Obligee,
in the full and just sum of	Dolla	rs and		Cents
(\$) lawful money of t	he United State	s, for the p	ayment of which s	um, well
and truly to be made, we bind ourselves, our heir jointly and severally, firmly by these presents:	rs, executors, ad	dministrato	rs, successors and	assigns,

WHEREAS, the said Principal is herewith submitting its Bid, dated on ______, for the construction of Contract No. 202158849, Taxiway EE Construction, Denver International Airport, as set forth in detail in the contract documents for the City and County of Denver, Colorado, and said Obligee has required as a condition for receiving said Bid that the Principal deposit specified bid security in the amount of not less than five percent (5%) of the amount of said Bid, as it relates to work to be performed for the City, conditioned that in event of failure of the Principal to execute the Contract for such construction and furnish required Performance and Payment Bond if the Contract is offered him, that said sum be paid immediately to the Obligee as liquidated damages, and not as a Penalty, for the Principal's failure to perform.

The condition of this obligation is such that if the aforesaid Principal shall, within the period specified therefor, on the prescribed form presented to him for signature, enter into a written Contract with the Obligee in accordance with his bid as accepted, and give Performance and Payment Bond with good and sufficient surety or sureties, upon the form prescribed by the Obligee, for the faithful performance and the proper fulfillment of said Contract, or in the event of withdrawal of said bid within the time specified, or upon the payment to the Obligee of the sum determined upon herein, as liquidated damages and not as a Penalty, in the event the Principal fails to enter into said Contract and give such Performance and Payment Bond within the time specified, then this Obligation shall be null and void, otherwise to remain in full force and effect.

[END OF PAGE]

Signed, sealed and delivered this _____ day of _____, ____,

Attest:

PRINCIPAL

Secretary [SEAL if bidder a corporation]

Ву:_____

President

SURETY

Ву:_____

Attorney-in-Fact

(ATTACH POWER OF ATTORNEY)

Power of Attorney shall be certified as to the date of bid.

Attachment 1, Part 8 Schedule of Prices and Quantities

SCHEDULE OF PRICES AND QUANTITIES

The Schedule of Prices and Quantities forms which apply to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.

	BID PROPOSAL SUMMARY
Bidder Name:	
SCHEDULE I TOTAL	\$
SCHEDULE II TOTAL	
TOTAL ALL SCHEDULES	
Bidder has examined the proposed	Bidder has examined the proposed site and is familiar with all site conditions.
Signature	

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: dollars and cents.	LS	1	\$	\$9
C-105a	Mobilization	at the unit price of: dollars and cents.	ΓS	1	\$	\$
013223a	Construction As-built Survey	at the unit price of: dollars and cents.	LS	1	\$7	\$€
015050a	Textura Software Fee	at the unit price of: dollars and cents.	LS	1	\$⊅	\$
015525a	Flagger	at the unit price of: dollars and cents.	HR	22,080	\$€	\$€
015525b	Gate Guard	at the unit price of: dollars and cents.	HR	17,360	\$	\$
015525c	Gate Guard Shack	at the unit price of: dollars and cents.	LS	1	\$	\$
015525d	Traffic Control	at the unit price of: dollars and cents.	LS	1	\$	\$
015719a	Temporary Erosion Control	at the unit price of: dollars and cents.	ΓS	1	\$	\$
P-101a	Remove Portland Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	2,484	69 :	69
P-101b	Remove Portland Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	425	69	69
P-101c	Remove Portland Cement Concrete Pavement (Non- Reinforced, 21")	at the unit price of: dollars and cents.	SY	143	69	69
P-101d	Full Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	16,551	∳	\$
P-101e	Partial Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	158	\$	⇔

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Issued for Bid July 1, 2021

		SCHEDULE I				
Item No.	Description		Units	s Estimated Quantity	Unit Price	Total
P-101f	Remove Permeable Base Course	at the unit price of: dollars and cents.	s SY	17,862	\$	\$₽
P-101g	Remove Cement Treated at the unit price of: Base Course and	at the unit price of: dollars and cents.	s SY	1,877	\$	\$9≠
P-101h	Remove Cement Treated Subgrade	at the unit price of: dollars and cents.	s SY	2,356	\$	\$9
P-101i	sphalt Road -	at the unit price of: dollars and cents.	s SY	4,661	\$	\$9
P-101j	Grind Cement Treated Base Course (0" to 1")	at the unit price of: dollars and cents.	s SY	300	\$	\$9≠
P-101k	Pavement Marking Removal	at the unit price of: dollars and cents.	s SF	10,000	\$	\$9
P-1011	Remove Gravel Road	at the unit price of: dollars and cents.	s SY	1,610	\$	\$
P-152a	Unclassified Excavation	at the unit price of: dollars and cents.	s CY	820,000	\$	\$9
P-152b	Excavation for Undercut	at the unit price of: dollars and cents.	s CY	19,927	\$	\$9
P-152c	Embankment (Common at the unit price of: Fill) and	at the unit price of: dollars and cents.	s CY	250,000	\$	\$
P-152d	Embankment (Stockpile Excess Material)	at the unit price of: dollars and cents.	s CY	472,000	\$	\$
P-152e	Upper Select Subgrade	at the unit price of: dollars and cents.	s CY	10,900	\$	\$9
P-152f	Lower Select Subgrade	at the unit price of: dollars and cents.	s CY	98,000	\$	\$9
P-152g	Subgrade Preparation (12")	at the unit price of: dollars and cents.	s SY	65,374	\$	\$
P-152h	Rock Excavation	at the unit price of: dollars and cents.	s CY	10,000	\$	\$
P-159a	Concrete Crushing	at the unit price of: dollars and cents.	TON	V 2,950	\$	\$
P-220a	Cement Treated Soil Base Course	at the unit price of: dollars and cents.	s SY	65,374	↔	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-304a	Cement Treated Base Course	at the unit price of: dollars and cents.	SY	63,897	\$	\$
P-304Ca	CDOT Class 6 Roadway Base	at the unit price of: dollars and cents.	CY	1,975	\$	\$
P-307a	Cement Treated Permeable Base Course (CTPB) 7"	at the unit price of: dollars and cents.	SY	46,297	\$ 7	\$
P-403a	Bituminous Surface Course	at the unit price of: dollars and cents.	TON	890'6	\$	\$
P-403b	Bituminous Base Course	at the unit price of: dollars and cents.	TON	17,670	\$	\$
P-501a	Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	44,613	\$ 7	\$
P-501b	Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	9,207	\$ 9	\$
P-501c	Cement Concrete Pavement (Non Reinforced, 21")	at the unit price of: dollars and cents.	SY	6,523	\$ \$	\$
P-501d	Cement Concrete Pavement (Reinforced, 21")	at the unit price of: dollars and cents.	SY	1,965	\$ 7	\$
P-501e	Bond Breaker Fabric	at the unit price of: dollars and cents.	SY	62,308	\$	\$
P-610a	Cement Treated Base Repair	at the unit price of: dollars and cents.	SY	150	∳	\$
P-620a	Pavement Markings, Waterborne	at the unit price of: dollars and cents.	SF	44,754	⇔	\$
P-620b	Pavement Markings, Metacrylate	at the unit price of: dollars and cents.	SF	3,075	⇔	\$
P-620c	Reflective Media	at the unit price of: dollars and cents.	LB	1,796	\$∱	\$
P-620d	Stop Sign	at the unit price of: dollars and cents.	EA	2	\$€	*

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-701a	Install 24" Class V RCP	at the unit price of: dollars and cents.	LF	3,269	\$€	\$₽
D-701b	Install 30" Class V RCP	at the unit price of: dollars and cents.	LF	413	\$€	\$7≠
D-701c	Install 36" Class V RCP	at the unit price of: dollars and cents.	LF	267	\$	\$
D-701d	Install 48" Class V RCP	at the unit price of: dollars and cents.	LF	2,801	\$?⊧	\$
D-701e	Install 24" FES	at the unit price of: dollars and cents.	EA	2	\$	\$
D-701f	Install 48" FES	at the unit price of: dollars and cents.	EA	1	\$	\$
D-705a	Install 6" Underdrain (Perforated PVC)	at the unit price of: dollars and cents.	LF	10,485	\$	\$
D-705b	Install 6" Underdrain (Non-Perforated PVC)	at the unit price of: dollars and cents.	LF	2,510	\$	\$
D-705c	Repair Damaged Underdrain Pipe	at the unit price of: dollars and cents.	LF	200	\$∕}=	\$9
D-705d	Install Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	80	\$	\$
D-705e	Remove Undredrain Pipe	at the unit price of: dollars and cents.	LF	4,092	\$?⊧	\$9
D-705f	Remove Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	7	\$∕∓	\$9
D-710a	Grouted Type "M" Riprap	at the unit price of: dollars and cents.	CY	Ŋ	\$∕}=	\$9
D-710b	Grouted Type "H" Riprap	at the unit price of: dollars and cents.	CY	30	\$	\$
D-751a	Install New Triple Type II Inlet Structure	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751b	Install New Double Type at the unit price II Inlet Structure and	at the unit price of: dollars and cents.	EA	7	\$	\$
D-751c	Install New 36"x48" Inlet	at the unit price of: dollars and cents.	EA	1	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-751d	Install Airfield Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751e	Install Type B Manhole	at the unit price of: dollars and cents.	EA	3	\$9	\$
D-751f	Install Type P Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751g	Convert Existing Inlet to at the unit price Manhole and	at the unit price of: dollars and cents.	EA	1	\$	\$
D-751h	Install Underdrain Manholes	at the unit price of: dollars and cents.	EA	16	\$	\$
D-751i	Tie To Existing Structure	at the unit price of: dollars and cents.	EA	2	\$	\$
T-901a	Seeding (Seed Mix Design 2)	at the unit price of: dollars and cents.	AC	235	\$	\$
T-905a	Topsoiling	at the unit price of: dollars and cents.	CY	49,248	\$	\$
T-908a	Hydraulic Mulching	at the unit price of: dollars and cents.	AC	235	\$	\$
T-908b	Erosion Control Blankets	at the unit price of: dollars and cents.	SY	86,527	\$	\$
L-108a	#8 AWG L-824C, 5000V Conductor	at the unit price of: dollars and cents.	LF	194,000	\$	\$
L-110a	1W-2" Sch. 40 PVC Conduit in Earth	at the unit price of: dollars and cents.	LF	550	\$	\$
L-110b	1W-2" Sch. 40 PVC Conduit in New Concrete Pavement	at the unit price of: dollars and cents.	LF	7,580	\$	\$
L-110c	1W-2" Sch. 40 PVC Conduit in New Asphalt Pavement	at the unit price of: dollars and cents.	LF	13,425	\$	\$
L-110d	8W-4" Sch. 40 PVC Concrete Encased Duct Bank	at the unit price of: dollars and cents.	LF	1,800	\$	\$
L-110e	Broken Conduit Repair	at the unit price of: dollars and cents.	EA	2	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-110f	Remove Concrete Encased Duct Bank	at the unit price of: dollars and cents.	LF	9,550	\$	\$∱
L-115a	Install New Electrical Manhole	at the unit price of: dollars and cents.	EA	£	\$	\$
L-115b	Adjust Existing Electrical at the unit price of: Manhole and		EA	2	\$	\$
L-115c	Remove Existing Electrical Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$∱
L-120c	Install L-847-2 Circuit Selector Switch	at the unit price of: dollars and cents.	EA	1	\$	\$
L-120d	Install L-847-3 Circuit Selector Switch	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125a	L-852C LED Taxiway Unidirectional Centerline Light	at the unit price of: dollars and cents.	EA	£	\$	\$9:
L-125b	L-852C LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	101	\$	\$
L-125c	L-852K LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	08	\$	\$9:
L-125d	L-861T Quartz Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	62	\$	\$9:
L-125e	L-861T LED Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	99	\$	\$9:
L-125f	L-861T LED Taxiway Edge Light Mounted on L-868 Base Can	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125g	L-868B 3/4" Thick Cover Plate	at the unit price of: dollars and cents.	EA	6	\$≁	\$
L-125h	L-867B 3/8" Thick Cover Plate	at the unit price of: dollars and cents.	EA	4	\$⊅:	\$∕}:

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125i	New 22" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	172	\$€	(/):
L-125j	New 26" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	10	\$	(/)
L-125k	New L-867B Base Can in at the unit price of: New Asphalt Pavement and	at the unit price of: dollars and cents.	EA	121	()	\$4}=
L-125l	New L-867B Base Can in Existing Asphalt Pavement	at the unit price of: dollars and cents.	EA	7	\$9	€ ⊅:
L-125m	L-858 LED Guidance Sign - 2 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$
L-125n	L-858 LED Guidance Sign - 3 Mod	at the unit price of: dollars and cents.	EA	10	\$	\$
L-1250	L-858 LED Guidance Sign - 4 Mod	at the unit price of:	EA	1	\$	\$
L-125p	New Guidance Sign Foundation - 3 Mod	at the unit price of: dollars and cents.	EA	8	\$	\$
L-125q	New Guidance Sign Foundation - 4 Mod	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125r	New Guidance Sign Foundation - 5 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$
L-125s	Remove Existing Sign and Base	at the unit price of: dollars and cents.	EA	3	\$	\$
L-125t	Remove Fixture and Base Can	at the unit price of: dollars and cents.	EA	102	\$	\$
L-125u	Reconnect 2" Conduit at Location of Removed Base Can	at the unit price of: dollars and cents.	EA	2	\$	€0+
L-125v	Remove and Replace Fixture or Sign ID Marker	at the unit price of: dollars and cents.	EA	215	\$	\$4;

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125w	Remove and Replace Circuit ID Tag	at the unit price of: dollars and cents.	EA	92	\$	\$
L-125x	Cover Taxiway Edge Light	at the unit price of: dollars and cents.	EA	24	\$	\$
L-125y	Mask Off Taxiway Centerline Light	at the unit price of: dollars and cents.	EA	42	\$	\$
L-125aa	Edge Light Drain	at the unit price of: dollars and cents.	EA	6	\$	\$
L-132-5.1	Installation of New LLWAS Including All Equipment and Foundations, As Shown on Contract Documents	at the unit price of: dollars and cents.	LS	1	\$	\$
L-132-5.2	Removal of Existing LLWAS Including All Equipment and Foundations	at the unit price of: dollars and cents.	ΓS	1	\$	\$
L-132-5.3	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 4 Way 4 Inch	at the unit price of: dollars and cents.	LF	6,000	\$	\$
L-132-5.4	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 2 Way 2 Inch	at the unit price of: dollars and cents.	LF	1,400	\$	\$
L-132-5.5	#1/0 AWG, Bare Copper FAA Guard Wire Installed Above Duct Bank or Conduit, Including Ground Rods, Connections, and Terminations	at the unit price of: dollars and cents.	LF	7,500	\$	\$9-
L-132-5.6	FAA Communications Manhole, 6 Feet by 6 Feet	at the unit price of: dollars and cents.	EA	7	\$7∓	\$9:

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-132-5.7	FAA Power Manhole, 6 at the unit price of: Feet by 6 Feet and	at the unit price of: dollars and cents.	EA	4	\$	\$
L-132-5.8	2-#2 AWG and 1-#4 AWG Ground Cable Installed in Duct Bank or Conduit, Including All and Terminations	at the unit price of: dollars and cents.	LF	1,550	()	₩
L-140a	Post-Construction Photometric Testing	at the unit price of: dollars and cents.	LS	1	\$	\$
L-150-1	Fiber Optic Cable Installed in Innerduct in Duct or Conduit, Including Testing and Connections	at the unit price of: dollars and cents.	LF	36,000	€9:	\$9
L-150-2	25 pair #22 AWG Type USE Cable, Installed in Duct Bank or Conduit	at the unit price of: dollars and cents.	LF	800	\$9 :	\$

SCHEDULE I TOTAL \$____

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	Total	\$	\$7	\$	\$	\$
	Unit Price		\$	\$	\$	\$
	Estimated Quantity	1	100	1	1	1
	Units	ΓS	SY	$\rm EA$	$\rm EA$	LS
SCHEDULE II		at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.
	Item No. Description	Mobilization	Pavement Spall Repair	Furnish L-847-2 Circuitat the unit price of:Selector Switchand	Furnish L-847-3 Circuit at the unit price of: Selector Switch and	ALCMS Modifications
	Item No.	C-105a	P-501f	L-120a	L-120b	13410Aa

SCHEDULE II TOTAL \$

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VII. ATTACHMENT 2, DBE FORMS

DSBO FORMS

The DSBO forms which apply to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) COMMITMENT TO DBE PARTICIPATION

This page must be completed by all Bidders/Proposers to indicate their commitment towards satisfying the DBE participation goal. The commitment will be incorporated into the contract and thereby the selected Bidder/Proposer's will be held to that commitment. (Please check the appropriate box):

COMPLETE IF YOU ARE A NON-DBE PRIME:

□ The City and County of Denver has specified a _____% DBE Participation goal on this project. The Bidder/Proposer is committed to meeting ______% DBE Participation on the contract.

COMPLETE IF YOU ARE A DBE PRIME:

□ The City and County of Denver has specified a _____% DBE Participation goal on this project. The Bidder/Proposer is a certified DBE with the City and County of Denver and is committed to meeting _____% DBE Participation on the contract.

COMPLETE IF YOU ARE UNABLE TO MEET PROJECT GOAL:

□ The City and County of Denver has specified a _____% DBE Participation goal on this project. The Bidder/Proposer is unable to meet this project goal but is committed to a _____% DBE Participation on the contract. The Bidder/Proposer must make adequate good faith efforts to meet this goal in order to be deemed responsive. The Bidder/Proposer must submit a detailed statement and documentation of their good faith efforts. Award of the contract will be conditioned on meeting the requirements of this section, in accordance with C.F.R. 49 part 26.

The undersigned Bidder/Proposer hereby agrees and understands that they must comply with their DBE commitments in this project in conformity with the Requirements, Terms, and Conditions of this DBE Procurement/Contract Language.

Bidder/Proposer (Name of Firm):

Date:	
State:	Zip:
Email:	
	State:



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) 1A - LIST OF PROPOSED SUBCONTRACTORS, SUBCONSULTANTS, AND/OR SUPPLIERS

City & County of Denver Contract No.:_

The undersigned proposes to utilize all listed firms. Any certified firm listed must be certified by the City and County of Denver and a Letter of Intent (LOI) submited for each. If additional pages are required, please copy and attach the second page. This form must be updated and submitted to DSBO when subcontractors, subconsultants, and/or suppliers are added throughout the contract duration.

Contractor/Cons	sultant	
Name of Firm:	□ MWBE (√) □ SBE (√) □	DBE (√) □ EBE (√)
Firm's Representative:		
Signature:	Date:	
Address:		
City:	State:	Zip:
Phone:	Email:	
Total Contract Value \$:	Self-Performing Contract Valu	e \$:

Su	ubcontractors, Subconsultants, and/or Suppliers
Name of Firm:	□ MWBE (√) □ SBE (√) □ DBE (√) □ EBE (√)
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

Name of Firm: \Box MWBE (\lor) \Box SBE (\lor) \Box DBE (\lor) \Box E	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

ame of Firm: \Box MWBE (\lor) \Box SBE (\lor) \Box DBE (\lor) \Box EBE	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:



Name of Firm: \Box MWBE (\lor) \Box SBE (\lor) \Box DBE (\lor) \Box EE	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

Name of Firm:	\Box MWBE (\lor) \Box SBE (\lor) \Box DBE (\lor) \Box EBE (\lor)
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

ame of Firm: \Box MWBE (v) \Box SBE (v) \Box DBE (v) \Box EBE		
Firm's Representative:		
Phone:	Email:	
Type of Service:	Contract Value \$:	
Anticipated Start Date:	Anticipated Completion Date:	
Anticipated Start Date:	Anticipated Completion Date:	

ame of Firm: \Box MWBE (V) \Box SBE (V) \Box DBE (V) \Box EBE	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

lame of Firm: □ MWBE (\v) □ SBE (\v) □ DBE (\v) □ EB	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:

ame of Firm: \Box MWBE (v) \Box SBE (v) \Box DBE (v) \Box EB	
Firm's Representative:	
Phone:	Email:
Type of Service:	Contract Value \$:
Anticipated Start Date:	Anticipated Completion Date:



Contract No.:

DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) LETTER OF INTENT (LOI)

Project Name:

A. The undersigned Bidder/Proposer intends to engage the undersigned MWBE, SBE, EBE or DBE to perform work if awarded the contract. This Letter of Intent must be Signed by the Bidder/Proposer and MWBE, SBE, EBE or DBE. Certified self-performing Prime must complete both sections A and B. If the MWBE, SBE, EBE or DBE is a			
lower tier, section C must be completed and signed by the firn	n directly utilizing the cer		
Bidder/Proposer (Name of Firm):		Self-Performing: □Yes □No	
Firm's Representative:	Title:		
	Date:		
Signature (Firm's Representative): Address:	Date.		
	State:	Zin:	
City:		Zip:	
Phone: Email: B. The Following Section is To Be Completed by the MWBE, SBE, EBE or DBE, at any tier. Identify the scope of the work and NAICS code(s) to be performed and/or supply item that will be provided by the MWBE, SBE, EBE or DBE.			
Name of Firm:		$\square MWBE(V) \square SBE(V) \square EBE(V) \square DBE(V)$	
Firm's Representative:	Title:		
Signature:	Date		
Address:	Date	•	
City:	State:	Zip:	
Phone:	Email:		
Scope of Work:	2		
NAICS Code(s):			
The Bidder/Proposer intends to utilize the aforementioned MWBE, SBE, EBE or DBE for the Work/Supply described above. The cost of the work and percentage of the total subcontractor MWBE, SBE, EBE or DBE bid amount is:			
\$		%	
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct first tier subcontractor, subconsultant, and/or supplier to the Bidder/Proposer, please indicate the name of the firm that is utilizing the certified firm:			
Name of Firm:			
Firm's Representative:	Title:		
Signature:	Dat	e:	

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this <u>Letter of Intent</u> shall be null and void.

VIII. ATTACHMENT 3, FORM W-9

FORM W-9

Please complete the Request for Taxpayer Identification Number and Certification (FORM W-9) and submit with your Bid.

These pages are not included in the page numbering of this contract document.

Form **W–9** (Rev. December 2014) Department of the Treasury Internal Revenue Service

Request for Taxpayer Identification Number and Certification

	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. N N Q P </th <th></th>				
page 2.					
uo	e onori appropriato por locaria tar oracination, origination of the remaining origination of the second states of		4 Exemptions (cod certain entities, not instructions on pag	individuals; e 3):	
tion	Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partners	hip) 🕨	Exempt payee code	e (if any)	
single-member LLC Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ► Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. Other (see instructions) ► Corporation, S=S corporation, P=partnership) ► (Applies to accounts maintained outside the L					ng
E L	☐ Other (see instructions) ►		(Applies to accounts maint	ained outside the	e U.S.)
Implementation of the single-member LLC Instructions on page 3): Implementation of the single-member LLC Implementation of the single-member concerns the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation of the single-member owner. Implementation owner. Implementation owner. Implementation owner. Implementation owner. Implementation owner. Implementation owner. Implementation owner. <t< th=""><th>l)</th><th></th></t<>			l)		
See S	6 City, state, and ZIP code				
	7 List account number(s) here (optional)				
Par	t I Taxpayer Identification Number (TIN)				
	your TIN in the appropriate box. The TIN provided must match the name given on line 1 to ave		curity number		
backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a</i>					
	n page 3.	or			
Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for		4 for Employer	r identification numb	ber	
guide	lines on whose number to enter.		-		
Par	t II Certification				

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- 3. I am a U.S. citizen or other U.S. person (defined below); and

4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign	Signature of	
Here	U.S. person ►	

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at *www.irs.gov/fw*9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

Date 🕨

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- · Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

Form W-9 (Rev. 12-2014)

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

• An individual who is a U.S. citizen or U.S. resident alien;

• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

An estate (other than a foreign estate); or

• A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership to enducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

• In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;

• In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and

• In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt* payee code on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see Special rules for partnerships above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(ii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

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Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

• Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

 Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1 - An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2-The United States or any of its agencies or instrumentalities

3-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

 $4-\!\mathrm{A}$ foreign government or any of its political subdivisions, agencies, or instrumentalities

5-A corporation

6-A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

 $7{-}\mathrm{A}$ futures commission merchant registered with the Commodity Futures Trading Commission

8-A real estate investment trust

 $9-\mbox{An entity}$ registered at all times during the tax year under the Investment Company Act of 1940

10-A common trust fund operated by a bank under section 584(a)

11-A financial institution

 $12\mbox{--}A$ middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947 The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for	THEN the payment is exempt for
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B-The United States or any of its agencies or instrumentalities

C-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D-A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E-A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F-A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G-A real estate investment trust

 $\rm H-A$ regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I-A common trust fund as defined in section 584(a)

J-A bank as defined in section 581

K-A broker

L-A trust exempt from tax under section 664 or described in section 4947(a)(1)

M-A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.ssa.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an TIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

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Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see Exempt payee code earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:	
1. Individual 2. Two or more individuals (joint account)	The individual The actual owner of the account or, if combined funds, the first individual on the account'	
 Custodian account of a minor (Uniform Gift to Minors Act) 	The minor ²	
 a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law 	The grantor-trustee'	
 Sole proprietorship or disregarded entity owned by an individual 	The owner ³	
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i) (A))	The grantor*	
For this type of account:	Give name and EIN of:	
7. Disregarded entity not owned by an individual	The owner	
8. A valid trust, estate, or pension trust	Legal entity ⁴	
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation	
10. Association, club, religious, charitable, educational, or other tax- exempt organization	The organization	
11. Partnership or multi-member LLC	The partnership	
12. A broker or registered nominee	The broker or nominee	
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity	
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i) (B))	The trust	

List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see Special rules for partnerships on page 2. *Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- · Protect your SSN,
- Ensure your employer is protecting your SSN, and
- · Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: *spam@uce.gov* or contact them at *www.ftc.gov/idtheft* or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

IX. ATTACHMENT 4, INSURANCE REQUIREMENTS

INSURANCE REQUIREMENTS

The insurance requirements relative to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.

EXHIBIT C

CITY AND COUNTY OF DENVER INSURANCE REQUIREMENTS FOR DEPARTMENT OF AVIATION OWNER CONTROLLED INSURANCE PROGRAM (OCIP/ROCIP) PROJECT

NOTICE OF CHANGE TO ROCIP: DEN reserves the right to terminate or modify the DEN ROCIP or any portion thereof. Further, dependent on factors including, but not limited to, the official timing and duration of the ROCIP project for which services are provided under this Agreement, DEN may need to transition from one ROCIP program to another and introduce corresponding requirements for contractors. DEN will provide Contractor notice in accordance with the terms and conditions of this Agreement.

1. General Information

City and County of Denver and Denver International Airport (hereinafter referred to collectively as "DEN") has arranged for certain construction activities at DEN to be insured under an Owner Controlled Insurance Program (OCIP) or a Rolling Owner Controlled Insurance Program (ROCIP) (hereinafter collectively referred to as "ROCIP"). A ROCIP is a single insurance program that insures DEN, the Contractor and subcontractors of any tier, and other designated parties (Enrolled Parties), for work performed at the Project Site. Certain trade contractors and subcontractors are ineligible for this program; see Excluded Parties under the definitions Section 7 for a general list of excluded parties. Insurance requirements are determined based on the scope of work.

1.2 ROCIP Manuals

Below are links to access the current reference manuals related to DEN ROCIP III. These manuals are part of the Contract Documents.

DEN ROCIP III Insurance Manual DEN ROCIP III Safety Manual DEN ROCIP III Claims Guide

2. Insurance Requirements for Non-ROCIP Contractors and Subcontractors (Excluded Parties)

Contractor and subcontractors of any tier shall require all Excluded Parties, as defined in Section 7 or confirmed as excluded by DEN, to provide and maintain insurance of the type and in limits as set forth in the Contractor Subcontract Agreement and such insurance shall include the minimum defined coverages and be evidenced to DEN as required in this Section 2.

2.1 Certificate Holder

Certificate(s) shall be issued to:

CITY AND COUNTY OF DENVER Denver International Airport 8500 Peña Boulevard, Suite 8810 Denver CO 80249 Attn: Risk Management

2.2 Acceptable Certificate of Insurance Form and Submission Instructions

Please read these requirements carefully to ensure proper documentation and receipt of your certificate(s) of insurance.

- ACORD FORM (or equivalent) certificate is required.
- SUBMIT via emailed in pdf format to: <u>contractadmininvoices@flydenver.com</u>
- ELECTRONIC CERTIFICATES are required, hard copy documents will not be accepted.

- THIRD PARTY SOFTWARE may be implemented during the term of this Agreement to manage insurance compliance and documents with required use by Vendor of such system.
- REFERENCE on the certificate must include the DEN assigned Contract Number.
- 2.3 Coverage and Limits
 - 2.3.1 Commercial General Liability

Contractor shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations in minimum limits of \$1,000,000 each occurrence, \$2,000,000 products and completed operations aggregate and \$2,000,000 annual aggregate.

- 2.3.1.1 Coverage shall include Contractual Liability covering liability assumed under this Agreement (including defense costs assumed under contract) within the scope of coverages provided.
- 2.3.1.2 Coverage shall include Mobile Equipment Liability.
- 2.3.2 Business Automobile Liability

Contractor shall maintain a minimum limit of \$1,000,000 combined single limit each occurrence for bodily injury and property damage for all owned, leased, hired and/or non-owned vehicles used in performing services under this Agreement.

- 2.3.2.1 If operating vehicles unescorted airside at DEN, a \$10,000,000 combined single limit each occurrence for bodily injury and property damage is required.
- 2.3.2.2 If Contractor does not have blanket coverage on all owned and operated vehicles, then a schedule of insured vehicles (including year, make, model and VIN number) must be submitted by the insurer with the Certificate of Insurance.
- 2.3.2.3 The policy must not contain an exclusion related to operations on airport premises.
- 2.3.2.4 If transporting waste, hazardous material, or regulated substances, Contractor shall carry a Broadened Pollution Endorsement and an MCS 90 endorsement on its policy.
- 2.3.2.5 If Contractor is an individual or represents that Contractor does not own any motor vehicles and Contractor's owners, officers, directors, and employees use their personal vehicles for business purposes, Personal Automobile Liability insurance coverage will be accepted provided it includes a business use endorsement.
- 2.3.2.6 If Contractor will be completing all services to DEN under this Agreement remotely this requirement will be waived.
- 2.3.3 Workers' Compensation and Employer's Liability Insurance

Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury caused by disease claim, and \$1,000,000 aggregate for all bodily injuries caused by disease claims.

2.3.3.1 If Contractor is a sole proprietor, Workers' Compensation and Employer's Liability is exempt under the Colorado Workers' Compensation Act.

2.3.4 Professional Liability (Errors and Omissions) Insurance

Contractor shall maintain a minimum limit of \$1,000,000 each claim and policy aggregate, providing coverage for applicable services outlined in this Agreement. If there are no applicable professional services, this coverage will not be required.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

2.3.5 Contractor's Pollution Legal Liability

If required by DEN Risk Management for any specific Excluded Party based on their scope of work, Contractor shall maintain coverage for its work site operations that are conducted on DEN's premises including project management and site supervision duties with a limit no less than \$1,000,000 each occurrence and aggregate resulting from claims arising out of a pollution condition or site environmental condition resulting out of work site operations on DEN's premises.

- 2.3.5.1 Coverage shall include claims/losses for bodily injury, property damage including loss of use of damaged property, defense costs including costs and expenses incurred in the investigation, defense or settlement of claims, and cleanup cost for pollution conditions resulting from illicit abandonment, the discharge, dispersal, release, escape, migration or seepage of any sold, liquid, gaseous or thermal irritant, contaminant, or pollutant, including soil, silt, sedimentation, smoke, soot, vapors, fumes, acids, alkalis, chemicals, electromagnetic fields, hazardous substances, hazardous materials, waste materials, low level radioactive waste, mixed wastes, on, in, into, or upon land and structures thereupon, the atmosphere, surface water or groundwater on the DEN premises.
- 2.3.5.2 Work site means a location where covered operations are being performed, including real property rented or leased from DEN for the purpose of conducting Contractor's covered operations.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

- 2.3.6 Technology Errors and Omissions, Network Security, and Privacy Liability (Cyber): If required by DEN Risk Management for any specific Excluded Party based on their scope of work, Contractor shall maintain a limit no less than \$1,000,000 each claim and aggregate; \$1,000,000 each claim and aggregate for cyber extortion; and no less than \$250,000 each claim for invoice manipulation and email spoofing.
 - 2.3.6.1 Coverage shall include professional misconduct or lack of ordinary skill.
 - 2.3.6.2 Coverage shall include, but not be limited to, liability arising from theft, dissemination and/or use of personal, private, confidential, information subject to a non-disclosure agreement, including information stored or transmitted, privacy or cyber laws, damage to or destruction of information, intentional and/or unintentional release of private information, alteration of information, extortion and network security, introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network or similar computer related property and the data, software, and programs thereon, advertising injury, personal injury (including invasion of privacy) and intellectual property offenses related to internet.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

2.3.7 Unmanned Aerial Vehicle (UAV) Liability

If Contractor desires to use drones in any aspect of its work on DEN premises, the following requirements must be met prior to commencing any drone operations:

- 2.3.7.1 Express written permission must be granted by DEN.
- 2.3.7.2 Express written permission must be granted by the Federal Aviation Administration (FAA).
- 2.3.7.3 Drone equipment must be properly registered with the FAA.
- 2.3.7.4 Drone operator(s) must be properly licensed by the FAA.
- 2.3.7.5 Contractor must maintain UAV Liability including flight coverage, personal and advertising injury liability, and hired/non-owned UAV liability for its commercial drone operations with a limit no less than \$1,000,000 combined single limit each occurrence for bodily injury and property damage.
- 2.3.8 Excess/Umbrella Liability

Combination of primary and excess coverage may be used to achieve minimum required coverage limits. Excess/Umbrella policy(ies) must follow form of the primary policies with which they are related to provide the minimum limits and be verified as such on any submitted Certificate of Insurance.

2.4 Reference to Project and/or Contract

The DEN Project and/or Contract Number and project description shall be noted on the Certificate of Insurance.

2.5 Additional Insured

For all coverages required under this Agreement (excluding Workers' Compensation and Professional Liability), Contractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers as Additional Insureds by policy endorsement.

2.6 Waiver of Subrogation

For all coverages required under this Agreement, Contractor's insurer(s) shall waive subrogation rights against the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers by policy endorsement.

2.7 Notice of Material Change, Cancellation or Nonrenewal

Each certificate and related policy shall contain a valid provision requiring notification to the Certificate Holder in the event any of the required policies be canceled or non-renewed or reduction in coverage before the expiration date thereof.

- 2.7.1 Such notice shall reference the DEN assigned contract number related to this Agreement.
- 2.7.2 Said notice shall be sent thirty (30) days prior to such cancellation, non-renewal or reduction in coverage unless due to non-payment of premiums for which notice shall be sent ten (10) days prior.
- 2.7.3 If such written notice is unavailable from the insurer or afforded as outlined above, Contractor and/or it is insurance broker/agent shall provide written notice of cancellation, non-renewal and

any reduction in coverage to the Certificate Holder within seven (7) business days of receiving such notice by its insurer(s) and include documentation of the formal notice received from its insurer(s) as verification. Contractor shall replace cancelled or nonrenewed policies with no lapse in coverage and provide an updated Certificate of Insurance to DEN.

2.8 Additional Provisions

- 2.8.1 Deductibles, SIRS, or any other type of retention are the sole responsibility of the Contractor.
- 2.8.2 Defense costs shall be in addition to the limits of liability. If this provision is unavailable that limitation must be evidenced on the Certificate of Insurance.
- 2.8.3 A severability of interests or separation of insureds provision (no insured vs. insured exclusion) is included under any policy requiring Additional Insured status.
- 2.8.4 A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by DEN, excluding Professional Liability and Workers' Compensation policies, if required.
- 2.8.5 The insurance requirements under this Agreement shall be the greater of (i) the minimum limits and coverage specified hereunder or (ii) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the Contractor. It is agreed that the insurance requirements set forth herein shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums set forth in this Agreement.
- 2.8.6 All policies shall be written on an occurrence form when available and industry norm. If an occurrence form is unavailable and/or the industry norm, claims-made coverage may be accepted by DEN provided the retroactive date is on or before the Agreement Effective Date or the first date when any goods or services were provided to DEN, whichever is earlier, and continuous coverage will be maintained or an extended discovery period of three years beginning at the time work under this Agreement is completed or the Agreement is terminated, whichever is later.
- 2.8.7 Contractor shall advise DEN in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.
- 2.8.8 Certificates of Insurance must specify the issuing companies, policy numbers and policy periods for each required form of coverage. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf and must be submitted to DEN at the time Contractor signed this Agreement.
- 2.8.9 The insurance shall be underwritten by an insurer licensed or authorized to do business in the State of Colorado and rated by A.M. Best Company as A- VIII or better.
- 2.8.10 Certificate of Insurance and Related Endorsements: DEN's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of DEN's rights or remedies under this Agreement. DEN's acceptance of any submitted insurance certificate is subject to the approval of DEN Risk Management. All coverage requirements specified in the certificate shall be enforced unless waived or otherwise modified in writing by DEN Risk Management. Contractor is solely responsible for ensuring all formal policy endorsements are issued by their insurers to support the requirements herein.
- 2.8.11 DEN shall have the right to verify or confirm, at any time, all coverage, information or representations, and the insured and its undersigned agent shall promptly and fully cooperate in any such audit DEN may elect to undertake including provision of certified copies of insurance policies upon request.
- 2.8.12 No material changes that negatively impact DEN or reductions in the coverage required herein shall be allowed without the review and written approval of DEN Risk Management.

3. Insurance Requirements for ROCIP Enrolled Contractors and Subcontractors

3.1 Insurance Provided by the DEN ROCIP

DEN retains the right to have this Project insured under a ROCIP. ROCIP coverage shall provide: (i) Commercial General Liability, (ii) Workers' Compensation & Employer's Liability, (iii) Excess Liability, (iv) Contractor's Pollution Liability, and (v) Builder's Risk as outlined herein and as defined by the respective policies for each coverage, for the period from the start of Work through completion and final acceptance by DEN except as otherwise provided herein.

3.2 Enrollment Required

Parties performing labor or services at the Project Site are eligible to enroll in the DEN ROCIP, unless they are Excluded Parties (as defined in Section 7). Participation is mandatory but not automatic. Parties eligible for enrollment shall follow the procedures and follow the instructions as provided in the DEN ROCIP Insurance Manual to enroll in the program. When the Contractor and subcontractors of any tier are properly enrolled, the DEN ROCIP Administrator will issue a Certificate of Insurance evidencing the coverages afforded to each Enrolled Party under the DEN ROCIP, prior to their commencing Work on the Project Site.

3.3 Exclusion of Contractor/Subcontractor Insurance Costs from Proposal and Bid Prices

Contractor shall exclude from Contractor's cost of work and ensure that each subcontractor of any tier exclude from their cost of work, normal costs for insurance for those coverages provided under the DEN ROCIP. As part of the enrollment process, Contractor and subcontractors shall provide policy declaration rate pages and deductible endorsements on the General Liability, Workers' Compensation, and Excess Liability policies as required in the DEN ROCIP Insurance Manual. The calculation of these costs will be determined by the ROCIP Program Administrator. The costs of DEN ROCIP coverage includes reductions in insurance premiums, all relevant taxes and assessments, markup on insurance premiums, and losses retained through large deductibles, self-insured retentions, or self-funded programs. Change orders shall also exclude the cost of ROCIP coverage.

Pre-employment substance abuse testing costs will be covered by DEN and should be removed from bid prices. Drug testing will be more thoroughly discussed in the ROCIP Safety Manual.

3.4 Insurance Premiums

DEN will pay the insurance premiums for the DEN ROCIP insurance policies. DEN is responsible for all adjustments to the premiums and will be the sole beneficiary of all dividends, retroactive adjustments, return premiums, and any other monies due through audits or otherwise. The Contractor assigns to DEN the right to receive all such adjustments and will require that each subcontractor of any tier assign to DEN all such adjustments. The Contractor and the subcontractors who are Enrolled Parties shall execute such further documentation as may be required by DEN to accomplish this assignment.

3.5 Off Site Operations Coverage Under ROCIP

The DEN ROCIP will provide certain insurance coverage for DEN, Contractor and Enrolled Parties, along with their Eligible Employees performing Work at the Project Site. Off-site operations shall be covered only if designated in writing by DEN and when all operations at such site are identified and solely dedicated to the Project. Contractors and subcontractors are responsible to notify the DEN ROCIP Administrator in writing, to request coverage for specified off-site operations. Coverage is not provided at the off-site location unless confirmed in writing by the DEN ROCIP Administrator.

3.6 DEN ROCIP Insurance Manual

As soon as practicable, the DEN ROCIP Insurance Manual will be sent to each Enrolled Party and will become a part of the Contract and Contractor's Subcontract with its subcontractor and its subcontractors' agreements with any lower-tier subcontractor. The DEN ROCIP Insurance Manual will contain the

administrative and claim reporting procedures. Contractor agrees to and will require that its subcontractors of any tier to cooperate with the DEN ROCIP Administrator in providing all required information.

3.7 Conflicts

Descriptions of the DEN ROCIP coverages set forth in Section 3.8 are not intended to be complete or meant to alter or amend any provision of the DEN ROCIP insurance policies. The DEN ROCIP coverages, terms, conditions, and exclusions are set forth in full in their respective policy forms. In the event of a conflict or omission between the coverages provided in the DEN ROCIP insurance policies and the coverages summarized or described in the DEN ROCIP Insurance Manual, this Exhibit or elsewhere in the Contract Documents, the DEN ROCIP insurance policies shall govern. In the event of a conflict between the provisions of this Exhibit and the DEN ROCIP Insurance Manual, that does not involve any conflict with the provisions of the DEN ROCIP insurance policies, the provisions of this Exhibit shall govern.

- 3.8 ROCIP Insurance Coverage Provided to Enrolled Parties
 - 3.8.1 Insurance Provided by DEN

Unless otherwise provided herein, prior to commencement of the Work, DEN, at its sole option and expense, shall secure and maintain at all times during the performance of this Contract the insurance specified below, insuring DEN, Enrolled Parties and such other persons or interests as DEN may designate with limits not less than those specified below for each coverage.

3.8.1.1 Workers' Compensation & Employer's Liability – On Site Only

DEN shall maintain the coverage as required by statute for the Project Site and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury caused by disease claim, and \$1,000,000 aggregate for all bodily injuries caused by disease claims.

3.8.1.2 Commercial General Liability – On Site Only

DEN shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations in minimum limits as listed below:

Coverage	Limit
Annual General Aggregate	
(Per Project and Reinstates Annually)	\$4,000,000
Products/Completed Operations Aggregate	\$4,000,000
(Per Project and Statute of Repose)	
Total Products/Completed Operations Aggregate	\$8,000,000
(Statute of Repose)	
Personal / Advertising Injury Limit	\$2,000,000
Each Occurrence Limit	\$2,000,000
Fire Damage Legal Liability (any one fire)	\$ 300,000
Medical Payments (any one person)	\$ 10,000

3.8.1.3 Excess Liability Insurance

DEN shall maintain coverage following form with underlying policies of

Commercial General Liability and Employer's Liability in minimum limits as listed below:

Coverage	Limit
Annual General Aggregate	
(Per Project and Reinstates Annually)	\$200,000,000
Products/Completed Operations Aggregate	\$200,000,000
(Per Project)	
Total Products/Completed Operations Aggregate	\$400,000,000
(Policy Cap)	
Each Occurrence Limit	\$200,000,000

DEN, in its sole discretion, may elect to provide higher limits, based on Project size. Excess Liability limits are shared by all Insured parties.

3.8.1.4 Contractor's Pollution Liability

DEN shall maintain coverage for bodily injury, property damage, or environmental damage caused by a pollution event resulting from covered operations, including completed operations, at the Project Site with a limit no less than \$10,000,000 each occurrence and aggregate. Coverage includes microbial matter and legionella pneumophila in any structure on land and the atmosphere contained with the structure. Products/Completed Operations coverage may extend for the statute of limitations/repose after final completion of the Project.

3.8.1.5 Builder's Risk Insurance

DEN shall maintain, Builder's Risk (and/or Installation Floater) in the amount of \$500,000,000 per occurrence subject to various sublimits (as defined in the Builders' Risk Policy). Such insurance shall end when the first of the following occurs: 1) DEN's interest in the Work ceases; 2) the policy expires or is cancelled; or 3) the Work is accepted by DEN.

Builder's Risk Insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss of damage including , theft, vandalism, malicious mischief, terrorism, rigging and hoisting for materials and equipment that are part of the Project, collapse, earthquake, flood, windstorm, falsework, testing and startup (as provided by the policy), temporary buildings and debris removal including demolition occasioned by enforcement of any applicable ordinance laws, and shall cover reasonable compensation for services and expenses required as a result of such insured loss.

This Builder's Risk Insurance shall cover portions of the Work stored off site, and also portions of the Work in transit.

DEN and Contractor shall waive all rights against (1) each other and any of their subcontractors of any tier, and all respective agents and employees, and (2) the architect, architect's consultants, separate contractors, if any, and any of their subcontractors of any tier, and all respective agents and employees, for damages caused by fire or other causes of loss to the extent covered by Builder's Risk Insurance obtained pursuant to this Section or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by DEN as fiduciary. DEN or Contractor, as appropriate, shall require of the architect,

architect's consultants, separate contractors, and their subcontractors of any tier, and all respective agents and employees, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

3.8.2 Claim Chargeback

A claim charge-back will be assessed, regardless of fault, for the amount of any loss payable under this program with the exception of Workers' Compensation and Excess Liability, up to a maximum of \$25,000 each loss. Lead Contractor may elect to pass no more than \$5,000 of this charge, each loss, through to any responsible subcontractor.

3.9 Other Insurance Provided By Enrolled Parties

At their own expense, the Enrolled Parties of all tiers must carry the following minimum coverage and limits and such insurance shall be evidenced to DEN and the DEN ROCIP Administrator as required in this Section 3.9.

3.9.1 Certificate Holder

Certificate(s) shall be issued to: CITY AND COUNTY OF DENVER Denver International Airport 8500 Peña Boulevard, Suite 8810 Denver CO 80249 Attn: Risk Management

and

CITY AND COUNTY OF DENVER Department of Aviation c/o Arthur J. Gallagher RMS, Inc. 12444 Powerscourt Drive St. Louis, MO 63131 Attn: Gallagher OCIP Group

3.9.2 Acceptable Certificate of Insurance Form and Submission Instructions

Please read these requirements carefully to ensure proper documentation and receipt of your certificate(s) of insurance.

• ACORD FORM (or equivalent) must be emailed in pdf format to:

contractadmininvoices@flydenver.com

and heather_lawson@ajg.com

- HARD COPIES of certificates and/or copies of insurance policies will not be accepted.
- ACORD FORM (or equivalent) must reference the DEN assigned Contract Number.
- 3.9.3 Commercial General Liability Off Site Only

Contractor shall maintain insurance coverage including bodily injury, property damage, personal injury, advertising injury, and products and completed operations for Contract operations not physically occurring within the Project Site in minimum limits of \$1,000,000 each occurrence,

\$2,000,000 products and completed operations aggregate and \$2,000,000 policy and annual aggregate.

- 3.9.3.1 Coverage shall include Contractual Liability covering liability assumed under this Agreement (including defense costs assumed under contract) within the scope of coverages provided.
- 3.9.4 Business Automobile Liability

Contractor shall maintain a minimum limit of \$1,000,000 combined single limit each occurrence for bodily injury and property damage for all owned, leased, hired and/or non-owned vehicles used in performing services under this Agreement.

- 3.9.4.1 If operating vehicles unescorted airside at DEN, a \$10,000,000 combined single limit each occurrence for bodily injury and property damage is required.
- 3.9.4.2 If Contractor does not have blanket coverage on all owned and operated vehicles, then a schedule of insured vehicles (including year, make, model and VIN number) must be submitted by the insurer with the Certificate of Insurance.
- 3.9.4.3 The policy must not contain an exclusion related to operations on airport premises.
- 3.9.4.4 If transporting waste, hazardous material, or regulated substances, Contractor shall carry a pollution coverage endorsement and an MCS 90 endorsement on its policy.
- 3.9.4.5 If Contractor is an individual or represents that Contractor does not own any motor vehicles and Contractor's owners, officers, directors, and employees use their personal vehicles for business purposes, Personal Automobile Liability insurance coverage will be accepted provided it includes a business use endorsement.
- 3.9.4.6 If Contractor will be completing all services to DEN under this Agreement remotely this requirement will be waived.
- 3.9.5 Workers' Compensation and Employer's Liability Insurance Off Site Only

Coverage to protect Contractor/Subcontractor from and against all claims arising from performance of Work outside the Project Site under the Contract.

Contractor shall maintain the coverage as required by statute for performance of Work outside the Project Site under the Contract and shall maintain Employer's Liability insurance with limits no less than \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 per occurrence for each bodily injury claim, \$1,000,000 aggregate for all bodily injuries caused by disease claims.

- 3.9.5.1 If Contractor is a sole proprietor, Workers' Compensation and Employer's Liability is exempt under the Colorado Workers'' Compensation Act.
- 3.9.6 Professional Liability (Errors and Omissions) Insurance

Contractor shall maintain a minimum limit of \$1,000,000 each claim and policy aggregate, providing coverage for applicable services outlined in this Agreement.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

3.9.7 Technology Errors and Omissions, Network Security, and Privacy Liability (Cyber): Contractor shall maintain a limit no less than \$1,000,000 each claim and aggregate; \$1,000,000 each claim and aggregate for cyber extortion; and no less than \$250,000 each claim for invoice manipulation and email spoofing for applicable services outlined in this Agreement.

- 3.9.7.1 Coverage shall include professional misconduct or lack of ordinary skill.
- 3.9.7.2 Coverage shall include, but not be limited to, liability arising from theft, dissemination and/or use of personal, private, confidential, information subject to a non-disclosure agreement, including information stored or transmitted, privacy or cyber laws, damage to or destruction of information, intentional and/or unintentional release of private information, alteration of information, extortion and network security, introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network or similar computer related property and the data, software, and programs thereon, advertising injury, personal injury (including invasion of privacy) and intellectual property offenses related to internet.

The Contractor shall be responsible for conferring with DEN Risk Management on any subcontractors providing work to the Project to obtain a formal determination if this coverage will be required.

3.9.8 Excess/Umbrella Liability:

Combination of primary and excess coverage may be used to achieve minimum required coverage limits. Excess/Umbrella policy(ies) must follow form of the primary policies with which they are related to provide the minimum limits and be verified as such on any submitted Certificate of Insurance.

3.9.9 Reference to Project and/or Contract

The DEN Project and/or Contract Number and project description shall be noted on the Certificate of Insurance.

3.9.10 Additional Insured

For all coverages required under this Agreement (excluding Workers' Compensation and Professional Liability), Contractor's insurer(s) shall include the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers as Additional Insureds by policy endorsement.

3.9.11 Waiver of Subrogation

For all coverages required under this Agreement, Contractor's insurer(s) shall waive subrogation rights against the City and County of Denver, its elected and appointed officials, successors, agents, employees and volunteers by policy endorsement.

3.9.12 Notice of Material Change, Cancellation or Nonrenewal

Each certificate and related policy shall contain a valid provision requiring notification to the Certificate Holder in the event any of the required policies be canceled or non-renewed or reduction in coverage from the requirements herein before the expiration date thereof.

- 3.9.12.1 Such notice shall reference the DEN assigned contract number related to this Agreement.
- 3.9.12.2 Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal or reduction in coverage unless due to non-payment of premiums for which notice shall be sent ten (10) days prior.
- 3.9.12.3 If such written notice is unavailable from the insurer, and in any event, Contractor and/or it is insurance broker/agent shall provide written notice of cancellation, non-

renewal and any reduction in coverage to the Certificate Holder within seven (7) business days of receiving such notice by its insurer(s) and include documentation of the formal notice received from its insurer(s) as verification. Contractor shall replace cancelled or nonrenewed policies with no lapse in coverage and provide an updated Certificate of Insurance to DEN.

3.9.13 Additional Provisions

- 3.9.13.1 Deductibles, SIRS, or any other type of retention are the sole responsibility of the policyholder.
- 3.9.13.2 Defense costs shall be in addition to the limits of liability. If this provision is unavailable that limitation must be evidenced on the Certificate of Insurance.
- 3.9.13.3 A severability of interests or separation of insureds provision (no insured vs. insured exclusion) is included under any policy requiring Additional Insured status.
- 3.9.13.4 A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by DEN, excluding Professional Liability and Workers' Compensation policies, if required.
- 3.9.13.5 The insurance requirements under this Agreement shall be the greater of (i) the minimum limits and coverage specified hereunder or (ii) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the Contractor. It is agreed that the insurance requirements set forth herein shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums set forth in this Agreement.
- 3.9.13.6 All policies shall be written on an occurrence form when available and industry norm. If an occurrence form is unavailable and/or the industry norm, claims-made coverage may be accepted by DEN provided the retroactive date is on or before the Agreement Effective Date or the first date when any goods or services were provided to DEN, whichever is earlier, and continuous coverage will be maintained or an extended discovery period of three years beginning at the time work under this Agreement is completed or the Agreement is terminated, whichever is later.
- 3.9.13.7 Contractor shall advise DEN in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.
- 3.9.13.8 Certificates of Insurance must specify the issuing companies, policy numbers and policy periods for each required form of coverage. The certificates for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf and must be submitted to DEN at the time Contractor signed this Agreement.
- 3.9.13.9 The insurance shall be underwritten by an insurer licensed or authorized to do business in the State of Colorado and rated by A.M. Best Company as A- VIII or better.
- 3.9.13.10 Certificate of Insurance and Related Endorsements: DEN's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Contractor's breach of this Agreement or of any of DEN's rights or remedies under this Agreement. DEN's acceptance of any submitted insurance certificate is subject to the approval of DEN Risk Management. All coverage requirements specified in the certificate shall be enforced unless waived or otherwise modified in writing by DEN Risk Management. Contractor is solely responsible for ensuring all formal policy endorsements are issued by their insurers to support the requirements herein.
- 3.9.13.11 DEN shall have the right to verify or confirm, at any time, all coverage, information or representations, and the insured and its undersigned agent shall promptly and

fully cooperate in any such audit DEN may elect to undertake including provision of certified copies of insurance policies upon request.

3.9.13.12 No material changes that negatively impact DEN or reductions in the coverage required herein shall be allowed without the review and written approval of DEN Risk Management.

4. Contractor Warranties and Agreements

4.1 Accuracy of Contractor-provided Information

Contractor warrants that all information submitted to DEN or the DEN ROCIP Administrator is accurate and complete to the best of its knowledge. Contractor will notify DEN or the DEN ROCIP Administrator immediately in writing of any errors discovered during the performance of the Work.

4.2 Contractor Responsible to Review Coverage

Contractor acknowledges that all references to DEN ROCIP policy terms, conditions, and limits of liability in this document, as well as the DEN ROCIP Insurance Manual, are for reference only. Contractor and its subcontractors of any tier are responsible for conducting their own independent review and analysis of the DEN ROCIP insurance policies in formulating any opinion or belief as to the applicability of such coverage in the event of any loss or potential claim. Any type of insurance or increase of limits not described above, which the Contractor requires for its own protection or on account of statute, shall be its own responsibility and at its own expense.

4.3 Audit

Contractor agrees to make its records available for review and to cooperate with DEN, its insurers and insurance brokers, the City Auditor, and representatives of the aforesaid parties in the event of an audit. In the event that a DEN audit of Contractor's records, as permitted in the Contract or other DEN ROCIP documents, reveals a discrepancy in the insurance, payroll, safety, or any other information required to be provided to DEN or the DEN ROCIP Administrator, or reveals inclusion of costs for DEN ROCIP coverage or other coverage beyond what is described above in any payment for the Work, DEN will have the right to deduct from payments due Contractor all such insurance costs as well as all audit costs.

4.4 Insurance Costs Removed

Contractor warrants that the costs for insurance as provided under the DEN ROCIP were not included in Contractor's bid or proposal for the Work, the Contract Price/Contract Sum, and will not be included in any change order or any request for payment for the Work or extra work.

5. Contractor Obligations

5.1 ROCIP Documents Shall be Provided to Subcontractor

Contractor shall furnish each bidding subcontractor, vendor, supplier, material dealer or other party a copy of this Exhibit, the DEN ROCIP Insurance Manual and the DEN ROCIP Safety Manual and shall incorporate the terms of this Exhibit in all contracts and agreements entered into for performance of any portion of the Work.

5.2 Timely Enrollment Required

Contractor shall enroll in the DEN ROCIP within five (5) business days following a request by DEN or the DEN ROCIP Administrator. Contractor shall notify each subcontractor of the process for enrolling in DEN ROCIP and confirm that enrollment is mandatory, but not automatic. Contractor shall assure that subcontractors of any tier shall not commence Work until verification of enrollment is confirmed by the DEN ROCIP Administrator by the issuance of a Certificate of Insurance to each individual Enrolled Party.

5.3 Compliance with Conditions

Contractor shall not violate any condition of the policies of insurance provided by DEN under the terms of this Exhibit, the DEN ROCIP Insurance Manual or the DEN ROCIP Safety Manual. All requirements imposed by the subject policies and to be performed by Contractor shall likewise be imposed on, assumed, and performed by each subcontractor of any tier.

5.4 Claims Cooperation

Contractor shall participate in claim reporting procedures. Contractor agrees to assist and cooperate in every manner possible in connection with the adjustment of all claims arising out of operations within the scope of the Work required by the Contract, and to cooperate with DEN's insurer(s) in all claims and demands which DEN's insurer(s) is called upon to adjust or to defend against. Contractor shall take all necessary action to assure that its subcontractors of any tier comply with any request for assistance and cooperation. This obligation includes, without limitation, providing light or modified duty for injured workers, appearing in mediation, arbitration or court proceedings and/or participating in settlement meetings, as may be required.

5.5 Monthly Payroll Submission

All Enrolled Parties shall submit monthly payrolls and worker-hour reports to DEN and/or the DEN ROCIP Administrator via the DEN ROCIP Administrator's online reporting system as outlined in the DEN ROCIP Insurance Manual. The online reporting instructions will be provided to all Contractors at time of enrollment. Failure to submit these reports may result in funds being held or delayed from monthly progress payments. Payroll must be submitted online for each month, including zero (0) payroll, if applicable, until completion of the Work under each Contract and Subcontract. For subcontractors of any tier performing Work under multiple Subcontracts, a separate payroll report is required for each Subcontract under which Work is being performed.

5.6 Response to Information Requests

All insurance underwriting, payroll, rating or loss history information requested by DEN or the DEN ROCIP Administrator shall be provided by the Contractor within three (3) business days of request. Contractor agrees (and will require each subcontractor to agree) that DEN, DEN's insurers or its representative may audit the Contractor's records or records of subcontractors of any tier to confirm the accuracy of all insurance information provided including, without limitation, any such information that may have any effect on insurance resulting from changes in the Work. At all times during performance of the Contract and Subcontracts, the Contractor and subcontractors of any tier shall cooperate with DEN, the DEN ROCIP Administrator and DEN's insurers.

5.7 Responsibility for Safety

Notwithstanding the DEN ROCIP, the Contractor shall initiate, maintain and supervise all safety precautions and programs in connection with the Work. Contractor is solely responsible, at no adjustment to the contract sum payable or contract time, for initiating, maintaining, and supervising all safety precautions and programs relating to the conduct of Work including, without limitation, any safety programs or procedures that are required by any applicable state or federal laws, rules or regulations, or under the terms of the DEN ROCIP Safety Manual.

5.8 Duty of Care

Nothing herein shall relieve the Enrolled Parties of their respective obligations to exercise due care in the

performance of their duties in connection with the Work or to complete the Work in strict compliance with this Contract and subsequent subcontracts.

6. Notices and Costs

6.1 Limitations on DEN Provided Coverage and DEN Right to Purchase Other Coverage

DEN assumes no obligations to provide insurance other than that evidenced by the policies referred to in Section 3.8. DEN, however, reserves the right to furnish insurance coverage of various types and limits provided that such coverage shall not be less than that specified in Section 3.8 and the costs of such insurance shall be paid by DEN. Apart from the DEN ROCIP, DEN may at its option purchase additional insurance coverages that insure the Project that may not necessarily insure the Contractor or the subcontractors. Without limitation, examples of such coverage may include pollution liability, excess professional liability, and excess automobile liability insurance.

6.2 Contractors Responsible for Own Equipment

Contractor and subcontractors are solely responsible for loss or damage of all construction tools and other equipment whether owned, leased, rented, borrowed or used on Work at the Project Site. If an individual Enrolled Party purchases insurance on their tools and equipment, such insurance shall contain a waiver of subrogation in favor of the City and County of Denver, its elected and appointed officials, agents, employees and volunteers and all other Enrolled Parties. If an individual Enrolled Party does not purchase such insurance, that Enrolled Party will hold harmless the City and County of Denver, its elected and appointed officials, agents, employees and volunteers and volunteers and other Enrolled Parties for loss or damage to its tools and equipment.

6.3 No Release; No Waiver of Immunity

The provision of the DEN ROCIP shall in no way be interpreted as relieving Contractor or subcontractors of any tier of any responsibility or liability under the Contract Documents, the DEN ROCIP insurance policies or applicable laws including, without limitation, Contractor's and subcontractor's responsibilities relative to indemnification and their obligation to exercise due care in the performance of the Work and to complete the Work in strict compliance with the Contract Documents. The parties hereto understand and agree that the City and County of Denver, its elected and appointed officials, agents, employees and volunteers are relying on, and do not waive or intend to waive by any provisions of this agreement, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 to 120, C.R.S., or otherwise available to DEN, its officers, officials and employees.

6.4 DEN Right to Withhold Payments

In addition to any other rights of withholding that DEN may have under the Contract Documents, DEN has the right to withhold any payments otherwise due to Contractor in the event of a failure by Contractor or any subcontractor to comply with the requirements of this Exhibit, the DEN ROCIP Insurance Manual or the DEN ROCIP Safety Manual. DEN may withhold from any payment owing to Contractor the costs of DEN ROCIP coverages if included in a request for payment. Such withholding by DEN shall not be deemed to be a default under the Contract. DEN shall withhold from Contractor the costs of DEN ROCIP coverages in an Enrolled Party's total payroll for the Work over the amount reported to DEN and/or the DEN ROCIP Administrator at time of enrollment.

6.5 DEN Remedies

Without limitation upon any of DEN's other rights or remedies, any failure of an Enrolled Party to comply with any provision of this Exhibit, the DEN ROCIP Insurance Manual, or the DEN ROCIP Safety Manual shall be deemed a material breach of the Contract, thereby entitling DEN, at its option, upon

notice to Contractor, to (1) suspend performance by Contractor and/or the offending subcontractor, without any adjustment to Contract Sum Payable or Contract Time, until there is full compliance, or (2) terminate this Contract for cause.

6.6 Off Site Storage

Unless otherwise provided in the Contract Documents, the property insurance provided by DEN shall not cover portions of the Work stored off the Site without written approval of DEN. Contractor shall be responsible for reporting such property or work if ownership has been transferred to DEN. If ownership rests with the Contractor, Contractor shall be responsible for obtaining insurance to protect its interests.

6.7 Partial Occupancy

Partial occupancy or use shall not commence until DEN insurer(s) providing Builders Risk and/or Property Insurance have consented to such partial occupancy or use by endorsement or otherwise. DEN and the Contractor shall take reasonable steps to obtain consent of the insurer(s) and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

6.8 DEN Right to Exclude Parties from the DEN ROCIP

DEN reserves the right to exclude any subcontractor from the DEN ROCIP, before or after enrollment by the subcontractor. If DEN elects to exclude a subcontractor from the DEN ROCIP, the Contractor will be responsible for ensuring the insurance coverages outlined in the Contractor's Subcontract Agreement are provided to DEN or the DEN ROCIP Administrator before the subcontractor can begin or resume Work on the Project.

6.9 DEN's Right to Modify or Discontinue DEN ROCIP Coverages

If DEN determines that modification or discontinuation of the DEN ROCIP is in the best interest of DEN, the Contractor and subcontractor will receive sixty (60) days advance written notice to secure and maintain such insurance as is required to provide replacement coverage comparable to that provided under the DEN ROCIP. Provided that the foregoing is not the result of any failure by the Contractor or any subcontractor to comply with the requirements of the Contract Documents, the DEN ROCP Insurance Manual or DEN ROCIP Safety Manual, the costs of such replacement insurance shall be deemed a cost of Work for which the Contractor shall be entitled to a Contract Adjustment, without any sum added thereto for Allowable Markup. The form, content, limits of liability, cost and the rating of the insurer(s) issuing such replacement coverage shall be subject to DEN's prior written approval.

7. Definitions

Certificate of Insurance:	A document providing evidence of coverage for a particular insurance policy or policies. This will include certificates issued to Enrolled Parties evidencing the coverage afforded under the DEN ROCIP and certificates issued to DEN evidencing additional coverage "Provided by Enrolled Parties"
DEN:	City and County of Denver and Denver International Airport
Contract:	The written agreement between DEN and Contractor describing the Work, contract terms and conditions, or a portion thereof; also includes a written agreement between a Contractor and any subcontractor as well as between subcontractors and their subcontractors of any tier.

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Contractor Insurance Cost:	The costs of ROCIP coverage are defined as the amount of Contractor's and eligible Subcontractors' of every tier reduction in insurance costs due to participation in the DEN ROCIP.
Rolling Owner Controlled Insurance Program (ROCIP):	A coordinated insurance program providing certain coverage, as defined herein, for DEN, Contractor and Enrolled Subcontractors, along with their Eligible Employees, performing Work at the Project Site.
Eligible Employees:	Employees of the Contractor and Enrolled Subcontractors who are not excluded from the ROCIP under the "Excluded Parties" definition.
Enrolled Parties:	The Contractor and those subcontractors that have submitted all necessary enrollment information and been accepted into the ROCIP as evidenced by the issuance of a Certificate of Insurance.
Excluded Parties:	Parties not covered by the ROCIP because of ineligibility or DEN explicit exclusion. No insurance coverage provided by DEN under the ROCIP shall extend to the activities or products of the following:
	• Any person or organization that fabricates or manufactures products, materials or supplies away from a Project Site with no direct onsite installation responsibility
	Exception: The ROCIP Insurer may agree to extend General Liability coverage only if the Lead Contractor has a written contract with the off-site fabricator or manufacturer to provide the pre-fabricated product. To consider extending coverage, the Insurer requires 30 days advance written notice to the ROCIP Administrator with details of the work/product and a copy of the contract between the Lead Contractor and the off-site fabricator or manufacturer. Approval must be obtained from the Insurer before enrolling in the ROCIP for General Liability coverage only.
	• Hazardous materials remediation, removal, or transportation companies and their consultants
	• Architects, engineers, surveyors and their consultants
	• Truckers, haulers, material dealers, vendors, suppliers, and others who merely transport, pick up, deliver or carry materials, personnel, parts or equipment or any other items or persons to or from a Project Site
	• Contractors, subcontractors and subconsultants who do not work at a Project Site
	• Employees of an Enrolled Party who either (i) do not work on-site or (ii) occasionally visit a Project Site to make deliveries, pick-up supplies or personnel, to perform supervisory or progress inspections, or for any other reason
	• Day labor employees (individuals working directly for the Contractor and not procured through a third party
	Page 17 of 19

	Exception: The ROCIP Insurer typically will accept including employees working for a contractor, or employed by temporary staffing agencies or professional employer organizations, as long as those employer-entities are enrolled as subcontractors to supply supplemental workforce.
Insured: (liability policies)	DEN, Contractor and Enrolled Parties and their Eligible Employees and any other party named in the insurance policies.
Insurers:	Those insurance companies providing the DEN ROCIP coverage. The insurers will be identified on the issued Certificate of Insurance and in the DEN ROCIP Insurance Manual.
Net Bid:	Contractor bids with insurance costs removed because of the obligation of any Enrolled Party to delete insurance costs for coverage provided by the ROCIP from its bid and all change orders. Net bids are subject to verification by the Administrator through the providing of contractors' rate and declaration pages from their Insurance policies.
ROCIP Administrator:	The DEN ROCIP Administrator will be identified in the DEN ROCIP Insurance Manual.
ROCIP Insurance Manual:	A reference document provided to Contractor and subcontractors of all tiers, which summarizes the terms and provisions of the DEN ROCIP and provides information about requirements and compliance.
ROCIP Safety Manual:	A reference document provided to Contractor and subcontractors of all tiers which contains workplace safety requirements of all Enrolled Parties.
Off Site Work:	Work performed away from the Project Site.
Payroll:	For purposes of the ROCIP only, refers to Unburdened Straight Time Payroll per Workers Compensation Class Code.
Policy Owner:	City and County of Denver and Denver International Airport
Project:	The Project as defined in the contract documents and as described in the Declarations of the DEN ROCIP insurance policies.
Project Site:	Means those areas designated in writing by DEN in a Contract document for performance of the Work and such additional areas as may be designated in writing by DEN for Contractors' use in performance of the Work. Subject to the ROCIP Insurer(s) written approval, the term "Project Site" shall also include: (1) field office sites, (2) property used for bonded storage of material for the Project approved by DEN, staging areas dedicated to the Project, and (4) areas where activities incidental to the Project are being performed by Contractor or subcontractors covered by the DEN ROCIP Worker's Compensation policy (if included), but excluding any permanent locations of any Enrolled Party.
	Items 1 through 4 above must be approved by the ROCIP Insurer and

listed on the DEN ROCIP insurance policies.

Subcontract:	The written agreement between Contractor and subcontractor, or between subcontractor and a lower tier subcontractor, describing the Work, subcontract terms and conditions, or a portion thereof.
Subcontractor:	Includes those persons, firms, joint venture entities, corporations, or other parties that enter into a Subcontract with Contractor to perform Work at the Project Site and any of these subcontractor's lower-tier subcontractors.
Work:	Operations, as fully described in the Contract and Subcontract, performed at the Project Site.

X. ATTACHMENT 5, DIVERSITY AND INCLUSIVENESS IN CITY SOLICITATIONS

For the City or the City Agency to consider a bid/Bid, Bidders must complete the on-line Diversity and Inclusiveness in City Solicitations Form – then print the completed form and include the hard copy as part of Bidder's bid/Bid documents. A Bid or response to a solicitation by a Bidder that does not include this completed form shall be deemed non-responsive.

Click on the following link to access the on-line form:

https://fs7.formsite.com/CCDenver/form161/index.html

Using the form found in link above, please state whether you have a Diversity and Inclusiveness program for employment and retention, procurement and supply chain activities or customer service, and provide the additional information requested on the form. The information provided on the Diversity and Inclusiveness in City Solicitations Form will provide an opportunity for City Bidders to describe their own diversity and inclusiveness practices. Bidders are not expected to conduct intrusive examinations of their employees, managers or business partners in order to describe diversity and inclusiveness measures. Rather, the City simply seeks a description of the Bidder's current practices, if any. Diversity and Inclusiveness information provided by City Bidders in response to City solicitations for services or goods will be collated, analyzed and made available in reports consistent with City Executive Order No. 101. However, no personally identifiable information provided by or obtained from Bidders will be in such reports.

Insert the completed hard copy of the Diversity and Inclusiveness in City Solicitations Form immediately following this page.

XI. ATTACHMENT 6, SAMPLE CONTRACT

SAMPLE CONTRACT

The Sample Contract is contained in the pages immediately following this page. These pages are not included in the page numbering of this contract document.

SAMPLE AGREEMENT Notice to Bidders: <u>City Required Contract Provisions</u>

The following contract provisions are required in every contract issued by the Department of Aviation. The language of each clause is drafted in accordance with city, state and federal obligations placed on the airport and is not subject to modification. Accordingly, bidders should carefully review this Sample Agreement provided with the Invitation for Bid, including these required provisions, in preparation of their Bids.

- 1. Indemnification
- 2. Basic insurance requirements
- 3. Limitation of liability (available in narrowly applicable circumstances)
- 4. Federal requirements
 - a. Standard Federal Aviation Administration grant assurances (Appendix 1 to the Sample Agreement)
 - b. Federal Aviation Administration document retention and review requirements
- 5. Airport security requirements
- 6. City code and charter; state statutes
 - a. Prompt pay
 - b. Prevailing wage
 - c. Immigration provisions (Not applicable for contracts for Information Technology services or IT products and services See, C.R.S. 8-17.5-101(6)(b)(V))
 - d. Colorado open records act
 - e. DSBO (if applicable to subject matter of contract)
 - f. City nondiscrimination language
 - g. Dispute resolution
- 7. Denver Executive Orders ("XOs")
 - a. Environmental
 - b. Drugs alcohol tobacco
 - c. Nondiscrimination in contracts
- 8. Airport System General Bond Ordinance (1984, as amended).
- 9. Choice of law (Colorado)
- 10. Jurisdiction and venue (Colorado)

CONTRACT FOR CONSTRUCTION

THIS CONTRACT FOR CONSTRUCTION ("Contract") is made and entered into as of the date stated on the City's signature page below (the "Effective Date") by and between the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado acting on behalf of its Department of Aviation (the "City"), and VENDOR NAME, a Jurisdiction from the SOS website corporation and authorized to do business in the State of Colorado ("Contractor ") (collectively the "Parties").

WITNESSETH

WHEREAS, the City, for at least three (3) consecutive days, advertised that proposals would be received for furnishing all labor, tools, supplies, equipment, materials and everything necessary and required for the construction and installation of the work under Invitation for Bid No. 202158849, Taxiway EE Construction at Denver International Airport ("**DEN**"); and

WHEREAS, a bid in response to said advertisement have been received by the Chief Executive Officer of DEN (the "CEO"), who has recommended that a contract for the work be made and entered into with Contractor, which was the lowest, responsive, qualified bidder; and

WHEREAS, Contractor is qualified, willing, and able to perform the work in accordance with its proposal and the Contract Documents defined below;

NOW, THEREFORE, for and in consideration of the compensation to be paid by the City to Contractor and the other terms and conditions of this Contract, the Parties agree as follows:

ARTICLE I. CONTRACT DOCUMENTS

It is agreed by the Parties that the instruments, drawings, and documents described below and whether attached to and bound with this Contract or not (the "**Contract Documents**"), are incorporated into the Contract by this reference, and are as fully a part of this Contract as if they were set out here verbatim and in full:

> Contract Request for Proposals Notice to Proceed Form of Final Receipt Building Information Modeling ("**BIM**") if applicable Change Directives Change Orders Exhibit A Federal Appendices Exhibit B Equal Employment Opportunity Provisions Exhibit C Insurance Requirements Exhibit D Prevailing Wage Schedules Exhibit E Special Conditions

Exhibit F	Standard Specifications for Construction General Contract Conditions
	(2011 Edition) (the "Yellow Book") ("General Conditions")
	(Table of Contents attached as Exhibit F)

- Exhibit G Performance Bond
- Exhibit H Payment Bond
- Exhibit I Technical Specifications
- Exhibit J Contract Drawings
- Exhibit Invitation for Bids and Contractor's Response to Invitation for Bids

In the event of an irreconcilable conflict between a provision of Article I through of this Contract document and any other provisions of the Contract Documents such that it is impossible to give effect to both, the order of precedence to determine which document shall control to resolve such conflict is as follows, in descending order:

- 1. Exhibit A Federal Appendices
- 2. Contract
- 3. Change Directives
- 4. Change Orders
- 5. Exhibit B Equal Employment Opportunity Provisions
- 6. Exhibit E Special Conditions
- 7. Exhibit F Standard Specifications for Construction General Contract Conditions (2011 Edition) (the "Yellow Book") ("General Conditions") (Table of Contents attached as Exhibit F)
- 8. Exhibit C Insurance Requirements
- 9. Exhibit D Prevailing Wage Schedules
- 10. Exhibit I Technical Specifications
- 11. Exhibit J Contract Drawings
- 12. Exhibit Invitation for Bids and Contractor's Response to Invitation for Bids
- 13. Exhibit G Performance Bond
- 14. Exhibit H Payment Bond
- 15. Notice to Proceed
- 16. Form of Final Receipt

17. Building Information Modeling ("BIM") if applicable

The remaining order of precedence is established in General Conditions Title 4.

ARTICLE II. SCOPE OF WORK

Contractor shall furnish all labor and tools, supplies, equipment, superintendence, materials, and everything necessary for and required to do, perform, and complete all of the work described, drawn, set forth, shown, and included in the Contract Documents (the "**Work**").

ARTICLE III. TERM OF CONTRACT

The Senior Vice President of Aviation – Airport Infrastructure Management (the "SVP-AIM") will issue a written notice to proceed to Contractor (the "Notice to Proceed"), and Contractor shall begin performing the Work required under this Contract within ten (10) days of

such Notice to Proceed (the "**Commencement Date**"). Contractor shall fully complete the Work in its entirety within 720 consecutive calendar days from the date of the Notice to Proceed ("**Contract Time**"). Contractor is not authorized to commence work prior to its receipt of the Notice to Proceed.

ARTICLE IV. TERMS OF PAYMENT

The City agrees to pay Contractor for the performance and completion of all of the Work as required by the Scope of Work and the Contract Documents, and Contractor agrees to accept as its full and only compensation therefor, a total amount of **Contract Amount Dollars and Amount Cents** (**\$Click here to enter text..00**) (the "**Maximum Contract Amount**"). In no event will the City's liability exceed the Maximum Contract Amount, as adjusted by duly authorized Change Orders in accordance with this Contract. The Parties specifically agree that any performance by Contractor hereunder shall not subject the City to any cost, charge, or fee not specified above.

ARTICLE V. VERIFIED STATEMENT OF CLAIMS

Colorado Revised Statutes § 38-26-107 ("**C.R.S.**") requires that, in the event any person or company files a verified statement of amounts due and unpaid in connection with a claim for labor and materials supplied on this project, the City shall withhold from payments to Contractor sufficient funds to insure the payment of any such claims. Should the City be made a party to any lawsuit to enforce such unpaid claims or any lawsuit arising out of or relating to such withheld funds, Contractor agrees to pay to the City its costs and a reasonable attorney's fee incurred in any such lawsuit. Because the City Attorney Staff does not bill the City for legal services on an hourly basis, Contractor agrees a reasonable fee shall be computed at the rate of two hundred dollars and no cents (\$200.00) per hour of City Attorney time.

ARTICLE VI. DISPUTES

All disputes arising under or related to this Contract shall be resolved by administrative hearing under the procedures described in *Exhibit F*, as modified by *Exhibit E*, if any, and the Denver Revised Municipal Code Section 5-17 ("**D.R.M.C.**") and all related rules and procedures. The determination resulting from said administrative hearing shall be final, subject only to Contractor's right to appeal the determination under Colorado Rule of Civil Procedure, Rule 106.

ARTICLE VII. DEFENSE AND INDEMNIFICATION

A. To the fullest extent permitted by law, Contractor hereby agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Contract that are due to the negligence or fault of the Contractor or the Contractor's agents, representatives, subcontractors, or suppliers ("**Claims**"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

B. Contractor's duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Contractor is not named as a Defendant.

C. Contractor will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

D. Insurance coverage requirements specified in this Contract shall in no way lessen or limit the liability of the Contractor under the terms of this indemnification obligation. The Contractor shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

E. This defense and indemnification obligation shall survive the expiration or termination of this Contract.

ARTICLE VIII. WAIVER OF C.R.S. § 13-20-801, et seq.

Notwithstanding any other provision of this Contract, Contractor specifically waives all of the provisions of C.R.S. §§ 13-20-801 *et seq.* as they may relate to Contractor's performance under this Contract.

ARTICLE IX. LIQUIDATED DAMAGES

If Contractor fails to achieve Substantial Completion of the Work within the Contract Time or fails to substantially complete the Work described in the Scope of Work within the time set forth in the Special Conditions, the City will suffer substantial damages, which damages would be difficult to accurately determine. The Parties hereto have considered the possible elements of damages and have agreed that the amount of liquidated damages for Contractor's failure to substantially complete the work within the Contract Time or to substantially complete the work described in any Milestone Areas shall be as provided in the Special Conditions If Contractor shall fail to pay such liquidated damages promptly upon demand therefor, the Surety on its Performance Bond and Payment Bond shall pay such damages. Also, the City may withhold all, or any part of, such liquidated damages from any payment due to Contractor. Additional provisions relating to liquidated damages are set forth in the Construction Contract General Conditions and Special Conditions.

ARTICLE X. INSURANCE REQUIREMENTS

A. Contractor shall obtain and keep in force all of the minimum insurance coverage forms and amounts set forth in *Exhibit C* ("Insurance Requirements") during the entire term of this Contract, including any extensions of the Contract or other extended period stipulations stated in *Exhibit C*. All certificates of insurance and any required endorsements must be received and approved by DEN Risk Management before any airport access or work commences.

B. Unless specifically excepted in writing by DEN Risk Management, if Contractor shall be using subcontractors to provide any part of the services under this Contract, Contractor shall do one of the following:

- 1. Include all subcontractors performing services hereunder as insureds under its required insurance and specifically list on all submitted certificates of insurance required under *Exhibit C*; or
- 2. Ensure that each subcontractor provides its own insurance coverage in accordance with the requirements set forth in this Contract.

C. The City in no way warrants or represents the minimum limits contained herein are sufficient to protect Contractor from liabilities arising out of the performance of the terms and conditions of this Contract by Contractor, its agents, representatives, employees, or subcontractors. Contractor shall assess its own risks and maintain higher limits and/or broader coverage as it deems appropriate and/or prudent. Contractor is not relieved of any liability or other obligations assumed or undertaken pursuant to this Contract by reason of its failure to obtain or maintain insurance in sufficient amounts, duration, or types.

D. In no event shall the City be liable for any of the following: (i) business interruption or other consequential damages sustained by Contractor; (ii) damage, theft, or destruction of Contractor's inventory, or property of any kind; or (iii) damage, theft, or destruction of an automobile, whether or not insured.

E. The Parties understand and agree that the City, its elected and appointed officials, employees, agents and volunteers are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations and any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101, *et seq.*, or otherwise available to the City, its elected and appointed officials, employees, agents and volunteers.

ARTICLE XI. CONTRACT BINDING

It is agreed that this Contract shall be binding on and inure to the benefit of the Parties hereto, their heirs, executors, administrators, assigns, and successors.

ARTICLE XII. SEVERABILITY

If any part, portion, or provision of this Contract shall be found or declared null, void, or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having authority thereover, only such part, portion, or provision shall be affected thereby and all other parts, portions, and provisions of this Contract shall remain in full force and effect.

ARTICLE XIII. ASSIGNMENT

Contractor shall not assign, pledge or transfer its duties, obligations, and rights under this Contract, in whole or in part, without first obtaining the written consent of the CEO or their authorized representative. Any attempt by Contractor to assign or transfer its rights hereunder without such prior written consent shall, at the option of the CEO or their authorized representative, automatically terminate this Contract and all rights of Contractor hereunder.

ARTICLE XIV. APPROPRIATIONS

Payment will be in accordance with the provisions of the Contract Documents, including Title 9 of the General Conditions, and will be made solely and exclusively from funds appropriated or otherwise lawfully made available for the purposes of this Contract from the City and County of Denver Airport System Funds. The City has no obligation to make payments from any other fund or source or to make additional appropriations or allocations to such fund to satisfy such costs or other obligations.

ARTICLE XV. APPROVALS

In the event this Contract calls for the payment by the City of Five Million Dollars and no cents (\$5,000,000.00) or more, approval by the Denver City Council, acting by Resolution in accordance with Section 3.2.6 of the Charter of the City and County of Denver, is and shall be an express condition precedent to the lawful and binding execution and performance of this Contract.

ARTICLE XVI. JOINT VENTURE

If Contractor is a Joint Venture, the partners to the Joint Venture shall be jointly and severally liable to the City for the performance of all duties and obligations of Contractor which are set forth in the Contract.

ARTICLE XVII. NO DISCRIMINATION IN EMPLOYMENT

In connection with the performance of work under this Contract, Contractor agrees not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender variance, marital status, or physical or mental disability; and Contractor further agrees to insert the foregoing provision in all subcontracts hereunder.

ARTICLE XVIII. COORDINATION OF SERVICES

Contractor agrees to perform its work under this Contract in accordance with the operational requirements of DEN, and all work and movement of personnel or equipment on areas included within the DEN site shall be subject to the regulations and restrictions established by the City or its authorized agents.

ARTICLE XIX. COMPLIANCE WITH ALL LAWS AND REGULATIONS

A. Contractor and its subcontractor(s) shall perform all work under this Contract in compliance with all existing and future applicable laws, rules, regulations, and codes of the United States and the State of Colorado and with the City Charter, ordinances, Executive Orders, and rules and regulations of the City.

B. Contractor shall perform all work in compliance with Executive Order 123 regarding Sustainability as may be directed by the City, including the requirement that all new City buildings and major renovations will be certified to the applicable LEED Gold Certification, with the goal of achieving LEED Platinum where economically feasible. Contractor also shall comply with all

applicable DEN design and construction standards, including the DEN Design Standards Manuals, which are incorporated herein by reference. Current versions can be found at:

https://business.flydenver.com/bizops/bizRequirements.asp.

ARTICLE XX. PREVAILING WAGE REQUIREMENTS

A. In addition to the Davis-Bacon Requirements contained in Exhibit A, Contractor shall comply with, and agrees to be bound by, all requirements, conditions and determinations of the City regarding the Payment of Prevailing Wages Ordinance, D.R.M.C. §§20-76 through 20-79, including, but not limited to, the requirement that every covered worker working on a City-owned or leased building or on City-owned land shall be paid no less than the prevailing wages and fringe benefits in effect on the date the bid or request for proposal was advertised. In the event a request for bids, or a request for proposal, was not advertised, Contractor shall pay every covered worker no less than the prevailing wages and fringe benefits in effect on the date funds for the Contract were encumbered.

Date bid or proposal issuance was advertised Click here to enter text.

B. Prevailing wage and fringe rates will adjust on the yearly anniversary of the actual date of bid or proposal issuance, if applicable, or the date of the written encumbrance if no bid/proposal issuance date is applicable. Unless expressly provided for in this Contract, Contractor will receive no additional compensation for increases in prevailing wages or fringe rates.

C. Contractor shall provide the Auditor of the City and County of Denver with a list of all subcontractors providing any services under the Contract.

D. Contractor shall provide the Auditor with electronically-certified payroll records for all covered workers employed under the Contract in a manner specified by the Auditor.

E. Contractor shall prominently post at the work site the current prevailing wage and fringe rates. The posting must inform workers that any complaints regarding the payment of prevailing wages or fringe benefits may be submitted to the Denver Auditor by calling 720-913-5000 or emailing auditor@denvergov.org.

F. If Contractor fails to pay workers as required by the Prevailing Wage Ordinance, Contractor will not be paid until documentation of payment satisfactory to the Auditor has been provided. The Auditor may enforce the Prevailing Wage Ordinance in a manner provided by law, including the Prevailing Wage Ordinance. The City also may, by written notice, suspend or terminate work if Contractor fails to pay required wages and fringe rates.

ARTICLE XXI. CITY PROMPT PAYMENT

A. Unless otherwise provided in this Contract, the City will make monthly progress payments to the Contractor for all services performed under this Contract based upon the Contractor's monthly invoices and in compliance with the General Conditions, as they may be modified in this Contract. The City's Prompt Payment Ordinance, D.R.M.C. §§ 20-107 to 20-118, applies to invoicing and payment under this Contract.

B. Final Payment to the Contractor shall not be made until after the Project is accepted, and all certificates of completion, record drawings and reproducible copies are delivered to the City, and the Contract is otherwise fully performed by the Contractor. In addition to retention, the City may, at the discretion of the Director, withhold reasonable amounts from billing and the entirety of the final payment until all such requirements are performed to the satisfaction of the Director.

C. Prompt Pay of MWBE Subcontractors. For contracts of one million dollars (\$1,000,000.00) and over to which D.R.M.C. § 28-72 applies, the Contractor is required to comply with the Prompt Payment provisions under D.R.M.C. § 28-72, with regard to payments by the Contractor to MWBE subcontractors. The Contractor shall make payment by no later than thirty-five (35) days from receipt by the Contractor of the subcontractor's invoice.

ARTICLE XXII. OWNERSHIP AND DELIVERABLES

Upon payment to Contractor, all records, data, deliverables, and any other work product prepared by Contractor or any custom development work performed by Contractor for the purpose of performing this Contract on or before the day of payment for such work shall become the sole property of the City. Upon request by the City, or based on any schedule agreed to by Contractor and the City, Contractor shall provide the City with copies of the data/files that have been uploaded to any database maintained by or on behalf of Contractor or otherwise saved or maintained by Contractor as part of the services provided to the City under this Contract. All such data/files shall be provided to the City electronically in a format agreed to by the Parties. Contractor also agrees to allow the City to review any of the procedures Contractor uses in performing any work or other obligations under this Contract, and to make available for inspection any and all notes, documents, materials, and devices used in the preparation for or performance of any of the scope of work, for up to six (6) years after termination of this Contract. Upon written request from the City, Contractor shall deliver any information requested pursuant to this Article within ten (10) business days in the event a schedule or otherwise agreed-upon timeframe does not exist.

ARTICLE XXIII. COLORADO OPEN RECORDS ACT

A. Contractor acknowledges that the City is subject to the provisions of the Colorado Open Records Act ("**CORA**"), C.R.S. §§ 24-72-201 *et seq.*, and Contractor agrees that it will fully cooperate with the City in the event of a request or lawsuit arising under such act for the disclosure of any materials or information which Contractor asserts is confidential or otherwise exempt from disclosure. Any other provision of this Contract notwithstanding, all materials, records, and information provided by Contractor to the City shall be considered confidential by the City only to the extent provided in CORA, and Contractor agrees that any disclosure of information by the City consistent with the provisions of CORA shall result in no liability of the City.

B. In the event of a request to the City for disclosure of such information, time and circumstances permitting, the City will make a good faith effort to advise Contractor of such request in order to give Contractor the opportunity to object to the disclosure of any material Contractor may consider confidential, proprietary, or otherwise exempt from disclosure. In the event Contractor objects to disclosure, the City, in its sole and absolute discretion, may file an application to the Denver District Court for a determination of whether disclosure is required or exempted. In the event a lawsuit to compel disclosure is filed, the City may tender all such material

to the court for judicial determination of the issue of disclosure. In both situations, Contractor agrees it will either waive any claim of privilege or confidentiality or intervene in such legal process to protect materials Contractor does not wish disclosed. Contractor agrees to defend, indemnify, and hold harmless the City, its officers, agents, and employees from any claim, damages, expense, loss, or costs arising out of Contractor's objection to disclosure, including prompt reimbursement to the City of all reasonable attorney's fees, costs, and damages the City may incur directly or may be ordered to pay by such court, including but not limited to time expended by the City Attorney Staff, whose costs shall be computed at the rate specified in Article V.

ARTICLE XXIV. EXAMINATION OF RECORDS AND AUDITS

A. Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access, and the right to examine, copy and retain copies, at City's election in paper or electronic form, any pertinent books, documents, papers and records related to Contractor's performance pursuant to this Contract, provision of any goods or services to the City, and any other transactions related to this Contract. Contractor shall cooperate with City representatives and City representatives shall be granted access to the foregoing documents and information during reasonable business hours and until the latter of six (6) years after the final payment under the Contract or expiration of the applicable statute of limitations. When conducting an audit of this Contract, the City Auditor shall be subject to government auditing standards issued by the United States Government Accountability Office by the Comptroller General of the United States, including with respect to disclosure of information acquired during the course of an audit. No examination of records and audits pursuant to this paragraph shall require Contractor to make disclosures in violation of state or federal privacy laws. Contractor shall at all times comply with D.R.M.C. 20-276.

B. Additionally, Contractor agrees until the expiration of six (6) years after the final payment under this Contract, any duly authorized representative of the City, including the CEO or their representative, shall have the right to examine any pertinent books, documents, papers and records of Contractor related to Contractor's performance of this Contract, including communications or correspondence related to Contractor's performance, without regard to whether the work was paid for in whole or in part with federal funds or was otherwise related to a federal grant program.

C. In the event the City receives federal funds to be used toward the services performed under this Contract, the Federal Aviation Administration ("**FAA**"), the Comptroller General of the United States and any other duly authorized representatives shall have access to any books, documents, papers and records of Contractor which are directly pertinent to a specific grant program for the purpose of making audit, examination, excerpts and transcriptions. Contractor further agrees that such records will contain information concerning the hours and specific services performed along with the applicable federal project number.

ARTICLE XXV. MINIMUM WAGE REQUIREMENTS

To the extent required by law, Contractor shall comply with and agrees to be bound by all requirements, conditions, and City determinations regarding the City's Minimum Wage Ordinance, D.R.M.C. §§ 20-82 through 20-84, including, but not limited to, the requirement that

every covered worker shall be paid no less than the City Minimum Wage in accordance with the City's Minimum Wage Ordinance. By executing this Contract, Contractor expressly acknowledges that Contractor is aware of the requirements of the City's Minimum Wage Ordinance and that any failure by Contractor, or any other individual or entity acting subject to this Contract, to strictly comply with the foregoing D.R.M.C. Sections shall result in the penalties and other remedies authorized therein.

ARTICLE XXVI. COMPLIANCE WITH DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS

This Department of Transportation (DOT) 49 C.F.R. Part 26 ("Part 26") applies to this Project and will be incorporated into any contract entered into by the City and contained in the City and County of Denver Bid Documents. It is the policy of DOT and the City to ensure non-discrimination in the award and administration of DOT-assisted contracts financed in whole or in part with Federal funds. Consequently, the Bidders must fully comply with the DBE requirements of Part 26 in bidding and performing hereunder.

Part 26 provides for the adoption of a good faith goals program, to be administered by the Division of Small Business Opportunity (DSBO). As such, each bidder must comply with the terms and conditions of the Part 26 in making its bid and, if awarded the Contract, in performing all Work thereunder. A bidder's failure to comply with Part 26, any Rules or Regulations promulgated pursuant thereto, or any additional requirements contained herein may render a bid non-responsive and may constitute cause for rejection.

In accordance with the requirements of the Part 26, the Contractor is committed to, at a minimum, meet the participation goal of sixteen (16) established for this Project utilizing properly certified DBE subcontractors and suppliers.

ARTICLE XXVII. SENSITIVE SECURITY INFORMATION

Contractor acknowledges that, in the course of performing its work under this Contract, Contractor may be given access to Sensitive Security Information ("SSI"), as material is described in the Code of Federal Regulations, 49 C.F.R. Part 1520. Contractor specifically agrees to comply with all requirements of the applicable federal regulations, including but not limited to, 49 C.F.R. Parts 15 and 1520. Contractor understands any questions it may have regarding its obligations with respect to SSI must be referred to the DEN's Security Office.

ARTICLE XXVIII. DEN SECURITY

A. Contractor, its officers, authorized officials, employees, agents, subcontractors, and those under its control, shall comply with safety, operational, or security measures required of Contractor or the City by the FAA or TSA. If Contractor, its officers, authorized officials, employees, agents, subcontractors or those under its control, fail or refuse to comply with said measures and such non-compliance results in a monetary penalty being assessed against the City, then, in addition to any other remedies available to the City, Contractor shall fully reimburse the City any fines or penalties levied against the City, and any attorney fees or related costs paid by the City as a result of any such violation. Contractor must pay this amount within fifteen (15) days from the date of the invoice or written notice. Any fines and fees assessed by the FAA or TSA against the City due to

the actions of Contractor and/or its agents will be deducted directly from the invoice for that billing period.

B. Contractor is responsible for compliance with Airport Security regulations and 49 C.F.R. Parts 1542 (Airport Security) and 14 C.R.F. Parts 139 (Airport Certification and Operations). Any and all violations pertaining to Parts 1542 and 139 resulting in a fine will be passed on to and borne by Contractor. The fee/fine will be deducted from the invoice at time of billing.

ARTICLE XXIX. FEDERAL RIGHTS

A. This Contract is subject and subordinate to the terms, reservations, restrictions and conditions of any existing or future contracts between the City and the United States, the execution of which has been or may be required as a condition precedent to the transfer of federal rights or property to the City for airport purposes, and the expenditure of federal funds for the extension, expansion or development of the Denver Municipal Airport System.

- 1. <u>General Civil Rights</u>: Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal Assistance. This provision binds Contractor and subtier contractors from the bid solicitation period through the completion of the Contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.
- 2. Federal Fair Labor Standards Act: This Contract incorporates by reference the provisions of 29 C.F.R. Part 201, the Federal Fair Labor Standards Act ("FLSA"), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers. Contractor agrees to incorporate by reference the provisions of FLSA in all contracts and subcontracts resulting from this Contract. Contractor has full responsibility to monitor compliance to the referenced regulation. Contractor must address any claims or disputes arising from this requirement directly with the U.S. Department of Labor Wage and Hour Division.
- 3. <u>Occupational Safety and Health Act</u>: This Contract incorporates by reference the requirements of 29 C.F.R. Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. Contractor retains full responsibility to monitor its compliance and any subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (29 C.F.R. Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor Occupational Safety and Health Administration.
- 4. Contractor covenants it will include the provisions of this section in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Federal Acts, Regulations and directives issued pursuant thereto. Contractor covenants

it will take action with respect to any subcontract or procurement as the City or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, Contractor may request the City to enter into any litigation to protect the interests of the City. In addition, Contractor may request the United States to enter into the litigation to protect the interests of the United States.

ARTICLE XXX. CITY EXECUTION OF CONTRACT

This Contract is expressly subject to, and shall become effective upon, the execution of all signatories of the City and, if required, the approval of Denver City Council. This Contract may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same.

ARTICLE XXXI. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS

The Contract, and any other documents requiring a signature hereunder, may be signed electronically by the City and/or Contractor in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Contract solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Contract in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

[SIGNATURE PAGES FOLLOW]

EXHIBIT A

FEDERAL CONSTRUCTION CONTRACT PROVISIONS

A1 ACCESS TO RECORDS AND REPORTS

A1.3 ACCESS TO RECORDS AND REPORTS

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the Owner, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

A2 AFFIRMATIVE ACTION REQUIREMENT

A2.3 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION to ENSURE EQUAL EMPLOYMENT OPPORTUNITY

- 1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetables

Goals for minority participation for each trade: [sponsor must insert established goal]

Goals for female participation in each trade: 6.9

These goals are applicable to all of the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a) and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good

faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontract; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this notice and in the contract resulting from this solicitation, the "covered area" is City and County of Denver, Colorado.

A3 BREACH OF CONTRACT TERMS

A3.3 BREACH OF CONTRACT TERMS

Any violation or breach of terms of this contract on the part of the t t s t t or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide Contractor written notice that describes the nature of the breach and corrective actions the Contractor must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the Contractor must correct the breach. Owner may proceed with termination of the contract if the Contractor fails to correct the breach by the deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

A BUY AMERICAN PREFERENCE

A .3.1 BUY AMERICAN PREFERENCE

The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the Federal Aviation Administration has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must complete and submit the Buy America certification included herein with their bid or offer. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

A .3.2 Certificate of Buy American Compliance Total Facility

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark () or the letter "".

Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States; or
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.

To faithfully comply with providing U.S. domestic products.

To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- d) To furnish U.S. domestic product for any waiver request that the FAA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the "facility". The required documentation for a Type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

A .3.3 Certificate of Buy American Compliance Manufactured Product

Certificate of Buy American Compliance for Manufactured Products

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark () or the letter "".

Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States;
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- 1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing U.S. domestic product.
- 3. To furnish U.S. domestic product for any waiver request that the FAA rejects

4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- 1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- 2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
- 3. To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of the item components and subcomponents produced in the United States is more that 60 percent of the cost of all components and subcomponents of the "item". The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date	Signature	
Dute	Signature	
Company Name	Title	

A CIVIL RIGHTS GENERAL

A .3.1 GENERAL CIVIL RIGHTS PROVISIONS

The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

A CIVIL RIGHTS TITLE VI ASSURANCE

A .3.1 Title VI Solicitation Notice

The **Name of Sponsor**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, select disadvantaged business enterprises or airport concession disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

A . .1 Title VI Clauses for Compliance with Nondiscrimination Requirements

Compliance with Nondiscrimination Requirements

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor"), agrees as follows:

- 1. **Compliance with Re ulations** The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- 2. **Nondiscrimination** The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
- 3. Solicitations for Subcontracts, includin Procurements of Materials and Equipment In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the contractor's obligations under this contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.
- 4. **Information and Reports** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
- 5. **Sanctions for Noncompliance** In the event of a Contractor's noncompliance with the non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - a. Withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions** The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

A . . Title VI List of Pertinent Nondiscrimination Acts and Authorities

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Title VI of the Civil Rights Act of 1964 (42 USC § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);

49 CFR part 21 (Non-discrimination in Federally-assisted programs of the Department of Transportation Effectuation of Title VI of the Civil Rights Act of 1964);

The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);

Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27;

The Age Discrimination Act of 1975, as amended (42 USC § 6101 *et seq.*) (prohibits discrimination on the basis of age);

Airport and Airway Improvement Act of 1982 (49 USC § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);

The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);

Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing

entities (42 USC §§ 12131 – 12189) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;

The Federal Aviation Administration's Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;

Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);

Title I of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC 1681 et seq).

A CLEAN AIR AND WATER POLLUTION CONTROL

A .3 CLEAN AIR AND WATER POLLUTION CONTROL

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 USC § 740-7671q) and the Federal Water Pollution Control Act as amended (33 USC § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceeds \$150,000.

A8 CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS

A8.3 CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS

1. Overtime Requirements.

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages.

In the event of any violation of the clause set forth in paragraph (1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

3. Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration (FAA) or the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this clause.

4. Subcontractors.

The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

A COPELAND ANTI-KICKBACK ACT

A .3 COPELAND ANTI-KICKBACK ACT

Contractor must comply with the requirements of the Copeland "Anti- ickback" Act (18 USC 874 and 40 USC 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

A10 DAVIS-BACON REQUIREMENTS

A10.3 DAVIS-BACON REQUIREMENTS

1. Minimum Wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: e that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.

- (ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (1) The work to be performed by the classification requested is not performed by a classification in the wage determination;

- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (C) In the event the Contractor, the laborers, or mechanics to be employed in the classification, or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program: *e* that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- 2. Withholding.

The Federal Aviation Administration or the sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or

advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the Contractor, Sponsor, Applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

- 3. Payrolls and Basic Records.
 - Payrolls and basic records relating thereto shall be maintained by the Contractor during (i) the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b)(2)(B) of the Davis-Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records that show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and that show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
 - (ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, Sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e* the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at st t or its successor site. The S prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker and shall provide them upon request to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit them to the applicant, sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration, the Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a

violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, Sponsor, or Owner).

- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - The payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR § 5.5 (a)(3)(i), and that such information is correct and complete;
 - (2) Each laborer and mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;
 - (4) Each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.
- (ii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the sponsor, the Federal Aviation Administration, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, Sponsor, applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.
- 4. Apprentices and Trainees.
 - (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program,

who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination that provides for less than full fringe benefits for apprentices. Any

employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iii) Equal Employment Opportunity. The utilization of apprentices, trainees, and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- 5. Compliance with Copeland Act Requirements.

The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

6. Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5,

6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of Eligibility.

- By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001.

A11 DEBARMENT AND SUSPENSION

A11.3.1 CERTIFICATION OF OFFERER BIDDER REGARDING DEBARMENT

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

A11.3.2 CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

- 1. Checking the System for Award Management at website: <u>http://www.sam.gov</u>.
- 2. Collecting a certification statement similar to the Certification of Offerer /Bidder Regarding Debarment, above.
- 3. Inserting a clause or condition in the covered transaction with the lower tier contract.

If the Federal Aviation Administration later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

A12 DISADVANTAGED BUSINESS ENTERPRISE

A12.3.1 SOLICITATION LANGUAGE SOLICITATIONS THAT INCLUDE A PROJECT GOAL

Information Submitted as a matter of bidder responsiveness: The Owner's award of this contract is conditioned upon Bidder or Offeror satisfying the good faith effort requirements of 49 CFR §26.53.

As a condition of bid responsiveness, the Bidder or Offeror must submit the following information with its proposal on the forms provided herein:

- 1) The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
- 2) A description of the work that each DBE firm will perform;
- 3) The dollar amount of the participation of each DBE firm listed under (1)
- 4) Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- 5) If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in appendix A to 49 CFR part 26.

Information submitted as a matter of bidder responsibility:

The Owner's award of this contract is conditioned upon Bidder or Offeror satisfying the good faith effort requirements of 49 CFR §26.53.

The successful Bidder or Offeror must provide written confirmation of participation from each of the DBE firms the Bidder or Offeror lists in its commitment within five days after bid opening.

- 1) The names and addresses of Disadvantaged Business Enterprise (DBE) firms that will participate in the contract;
- 2) A description of the work that each DBE firm will perform;
- 3) The dollar amount of the participation of each DBE firm listed under (1)
- 4) Written statement from Bidder or Offeror that attests their commitment to use the DBE firm(s) listed under (1) to meet the Owner's project goal; and
- If Bidder or Offeror cannot meet the advertised project DBE goal, evidence of good faith efforts undertaken by the Bidder or Offeror as described in appendix A to 49 CFR part 26.

A12.3.2 SOLICITATION LANGUAGE RACE GENDER NEUTRAL MEANS

The requirements of 49 CFR part 26 apply to this contract. It is the policy of the Insert Name of Owner to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

A12.3.3 PRIME CONTRACTS PROJECTS COVERED BY A DBE PROGRAM

DISADVANTAGED BUSINESS ENTERPRISES

Contract Assurance § 2 .13 –

The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of Department of Transportation-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Owner deems appropriate, which may include, but is not limited to:

- 1) Withholding monthly progress payments;
- 2) Assessing sanctions;
- 3) Liquidated damages; and/or
- 4) Disqualifying the Contractor from future bidding as non-responsible.

Prompt Payment §2 .2) -

The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than specify number days from the receipt of each payment the prime contractor receives from Name of recipient . The prime contractor agrees further to return retainage payments to each subcontractor within specify the same number as above days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the Name of Recipient . This clause applies to both DBE and non-DBE subcontractors.

A13 DISTRACTED DRIVING WHEN DRIVING

A13.3 TEXTING WHEN DRIVING

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving", (10/1/2009) and DOT Order 3902.10, "Text Messaging While Driving", (12/30/2009), the Federal Aviation Administration encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or subgrant. In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 that involve driving a motor vehicle in performance of work activities associated with the project.

A1 ENERGY CONSERVATION REQUIREMENTS

A1 .3 ENERGY CONSERVATION REQUIREMENTS

Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 USC 6201*et seq*).

A1 EQUAL EMPLOYEMENT OPPORTUNITY EEO

A1 .3.1 EQUAL OPPORTUNITY CLAUSE

During the performance of this contract, the Contractor agrees as follows:

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identify, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff, or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (3) The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance e e e e e, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

A1 .3.2 STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS

- 1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal social security number used on the Employer's uarterly Federal Tax Return, U.S. Treasury Department Form 941;
 - d. "Minority" includes:
 - (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR part 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to

achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through 7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
- 5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the Contractor during the training period and the Contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a

union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the Contractor may have taken.

- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or female sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions, including specific review of these items, with onsite supervisory personnel such superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce. k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- 1. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (7a through 7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the Contractor is a member and participant may be asserted as fulfilling any one or more of its obligations under 7a through 7p of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally), the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.
- 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

- 11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246. 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR part 60-4.8.
- 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

A1 FEDERAL FAIR LABOR STANDARDS ACT FEDERAL MINIMUM WAGE

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers.

The t t s t t has full responsibility to monitor compliance to the referenced statute or regulation. The t t s t t must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

A18 LOBBYING AND INFLUENCING FEDERAL EMPLOYEES

A18.3 CERTIFICATION REGARDING LOBBYING

The Bidder or Offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

A1 PROHIBITION of SEGREGATED FACILITIES

A1 .3 PROHIBITION OF SEGREGATED FACILITIES

- (a) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Employment Opportunity clause in this contract.
- (b) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Employment Opportunity clause of this contract.

A20 OCCUPATIONAL SAFETY AND HEALTH ACT OF 1 0

A20.3 OCCUPATIONAL SAFETY AND HEALTH ACT OF 1 0

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. The employer must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The employer retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). The employer must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

A21 PROCUREMENT OF RECOVERED MATERIALS

A21.3 PROCUREMENT OF RECOVERED MATERIALS

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- 1) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or
- 2) The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at www.epa.gov/smm/comprehensive-procurement-guidelines-construction-products.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

A22 RIGHT TO INVENTIONS

A22.3 RIGHTS TO INVENTIONS

Contracts or agreements that include the performance of experimental, developmental, or research work must provide for the rights of the Federal Government and the Owner in any resulting invention as established by 37 CFR part 401, Rights to Inventions Made by Non-profit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements. This contract incorporates by reference the patent and inventions rights as specified within 37 CFR §401.14. Contractor must include this requirement in all sub-tier contracts involving experimental, developmental, or research work.

A23 SEISMIC SAFETY

A23.3 PROFESSIONAL SERVICE AGREEMENTS FOR DESIGN

SEISMIC SAFETY

In the performance of design services, the Consultant agrees to furnish a building design and associated construction specification that conform to a building code standard that provides a level of seismic safety substantially equivalent to standards as established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their building code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety. At the conclusion of the design services, the Consultant agrees to furnish the Owner a "certification of compliance" that attests conformance of the building design and the construction specifications with the seismic standards of NEHRP or an equivalent building code.

A23.3.2 CONSTRUCTION CONTRACTS

SEISMIC SAFETY

The Contractor agrees to ensure that all work performed under this contract, including work performed by subcontractors, conforms to a building code standard that provides a level of seismic safety substantially equivalent to standards established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety.

A2 TAX DELINQUENCY AND FELONY CONVICTIONS

A2 .3 CERTIFICATION OF OFFERER BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark () in the space following the applicable response. The applicant agrees that, if

awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

The applicant represents that it is () is not () a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

The applicant represents that it is () is not () is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions-

Felony conviction Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

A2 TERMINATION OF CONTRACT

A2 .3.1 TERMINATION FOR CONVENIENCE CONSTRUCTION EQUIPMENT CONTRACTS

The Owner may terminate this contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of Owner. Upon receipt of a written notice of termination, except as explicitly directed by the Owner, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

1. Contractor must immediately discontinue work as specified in the written notice.

- 2. Terminate all subcontracts to the extent they relate to the work terminated under the notice.
- 3. Discontinue orders for materials and services except as directed by the written notice.
- 4. Deliver to the Owner all fabricated and partially fabricated parts, completed and partially completed work, supplies, equipment and materials acquired prior to termination of the work, and as directed in the written notice.
- 5. Complete performance of the work not terminated by the notice.
- 6. Take action as directed by the Owner to protect and preserve property and work related to this contract that Owner will take possession.

Owner agrees to pay Contractor for:

- 1. completed and acceptable work executed in accordance with the contract documents prior to the effective date of termination;
- 2. documented expenses sustained prior to the effective date of termination in performing work and furnishing labor, materials, or equipment as required by the contract documents in connection with uncompleted work;
- 3. reasonable and substantiated claims, costs, and damages incurred in settlement of terminated contracts with Subcontractors and Suppliers; and
- 4. reasonable and substantiated expenses to the Contractor directly attributable to Owner's termination action.

Owner will not pay Contractor for loss of anticipated profits or revenue or other economic loss arising out of or resulting from the Owner's termination action.

The rights and remedies this clause provides are in addition to any other rights and remedies provided by law or under this contract.

TERMINATION FOR CONVENIENCE PROFESSIONAL SERVICES

The Owner may, by written notice to the Consultant, terminate this Agreement for its convenience and without cause or default on the part of Consultant. Upon receipt of the notice of termination, except as explicitly directed by the Owner, the Contractor must immediately discontinue all services affected.

Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

A2 .3.2 TERMINATION FOR DEFAULT

TERMINATION FOR DEFAULT CONSTRUCTION

Section 80-09 of FAA Advisory Circular 150/5370-10 establishes conditions, rights, and remedies associated with Owner termination of this contract due to default of the Contractor.

TERMINATION FOR DEFAULT EQUIPMENT

The Owner may, by written notice of default to the Contractor, terminate all or part of this Contract if the Contractor:

- 1. Fails to commence the Work under the Contract within the time specified in the Notice-to-Proceed;
- 2. Fails to make adequate progress as to endanger performance of this Contract in accordance with its terms;
- 3. Fails to make delivery of the equipment within the time specified in the Contract, including any Owner approved extensions;
- 4. Fails to comply with material provisions of the Contract;
- 5. Submits certifications made under the Contract and as part of their proposal that include false or fraudulent statements; or
- 6. Becomes insolvent or declares bankruptcy.

If one or more of the stated events occur, the Owner will give notice in writing to the Contractor and Surety of its intent to terminate the contract for cause. At the Owner's discretion, the notice may allow the Contractor and Surety an opportunity to cure the breach or default.

If within 10 days of the receipt of notice, the Contractor or Surety fails to remedy the breach or default to the satisfaction of the Owner, the Owner has authority to acquire equipment by other procurement action. The Contractor will be liable to the Owner for any excess costs the Owner incurs for acquiring such similar equipment.

Payment for completed equipment delivered to and accepted by the Owner shall be at the Contract price. The Owner may withhold from amounts otherwise due the Contractor for such completed equipment, such sum as the Owner determines to be necessary to protect the Owner against loss because of Contractor default.

Owner will not terminate the Contractor's right to proceed with the Work under this clause if the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such acceptable causes include: acts of God, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, and severe weather events that substantially exceed normal conditions for the location.

If, after termination of the Contractor's right to proceed, the Owner determines that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the Owner issued the termination for the convenience the Owner.

The rights and remedies of the Owner in this clause are in addition to any other rights and remedies provided by law or under this contract.

TERMINATION FOR DEFAULT PROFESSIONAL SERVICES

Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

The terminating party must provide the breaching party 7 days advance written notice of its intent to terminate the Agreement. The notice must specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this agreement.

- a) **Termination by Owner**: The Owner may terminate this Agreement in whole or in part, for the failure of the Consultant to:
 - 1. Perform the services within the time specified in this contract or by Owner approved extension;
 - 2. Make adequate progress so as to endanger satisfactory performance of the Project; or
 - 3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Consultant must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, the Owner determines the Consultant was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the Owner issued the termination for the convenience of the Owner.

b) **Termination by Consultant**: The Consultant may terminate this Agreement in whole or in part, if the Owner:

- 1. Defaults on its obligations under this Agreement;
- 2. Fails to make payment to the Consultant in accordance with the terms of this Agreement;
- 3. Suspends the Project for more than 180 days due to reasons beyond the control of the Consultant.

Upon receipt of a notice of termination from the Consultant, Owner agrees to cooperate with Consultant for the purpose of terminating the agreement or portion thereof, by mutual consent. If Owner and Consultant cannot reach mutual agreement on the termination settlement, the Consultant may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the Owner's breach of the contract.

In the event of termination due to Owner breach, the Engineer is entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Consultant through the effective date of termination action. Owner agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

A2 TRADE RESTRICTION CERTIFICATION

A2 .3 TRADE RESTRICTION CERTIFICATION

By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror –

- 1) is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (USTR);
- 2) has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and
- 3) has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18 USC Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- 1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR or
- 2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such USTR list or
- 3) who incorporates in the public works project any product of a foreign country on such USTR list.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration (FAA) may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

A2 VETERAN S PREFERENCE

A2 .3 VETERAN S PREFERENCE

In the employment of labor (excluding executive, administrative, and supervisory positions), the Contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 USC 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

CITY AND COUNTY OF DENVER RULES AND REGULATIONS AND BID CONDITIONS OF THE MANAGER OF PUBLIC WORKS

PERTAINING TO EQUAL EMPLOYMENT OPPORTUNITY IN THE CITY AND COUNTY OF DENVER

APPROVED FOR LEGALITY:

APPROVED AND ADOPTED:

/s/

Attorney for the City and County of Denver

/s/_____ Manager of Public Works

Adopted and Published Pursuant to Article 111, Division 2 of Chapter 28 the Revised Municipal Code of the City and County of Denver

These Rules and Regulations cancel and supersede any and all previous issued Rules and Regulations on the subject

RULES AND REGULATIONS REGARDING EQUAL EMPLOYMENT OPPORTUNITY

Promulgated and adopted by the Manager of Public Works pursuant to and by authority of Article III, Division 2, Chapter 28 of the Revised Municipal Code of the City and County of Denver, and for the purpose of insuring that contractors. subcontractors and suppliers soliciting and receiving compensation for contract work from or through the City and County of Denver provide equal opportunity in employment without regard to race, color, creed, sex, national origin, age, religion, marital status, political opinion or affiliation or mental or physical handicap and meet certain requirements for the hiring' training promotion and treatment during employment of members of ethnic groups subjected to differential treatment , including persons of African descent (Black), Spanish-surnamed (Hispanic), Asian-American and American Indian groups.

RULE I DEFINITIONS

- A. "City" means the City and County of Denver.
- B. "Manager" shall mean the Manager of Public Works for the City and County of Denver.
- C. "Contract" means a contract entered into with the City and County of Denver, financed in whole or in part by local resources or funds of the City and County of Denver, for the construction of any public building or prosecution or completion of any public work.
- D. "Contractor" means the original party to a contract with the City and County of Denver, also referred to as the "general" or "prime" contractor.
- E. "Director" means the Director of the Mayor's Office of Contract Compliance.
- F. "Subcontractor" means any person company, association, partnership, corporation, or other entity which assumes by subordinate agreement some or all of the obligations of the general or prime contractor.
- G. The Phrase "Bidding Specifications" as used in Article 111, Division 2 of Chapter 28 of the Revised Municipal Code shall include BID CONDITION, INVITATION TO BID AND NOTICE OF PROPOSAL.
- H. "Affirmative Action Program" means a set of specific and result-oriented procedures or steps to which a contractor commits himself to apply every good faith effort to employ members of ethnic minority groups, to include persons of African descent (Black), Spanish surnamed (Hispanic), Asian-American, American Indians, and persons with mental or physical handicap.
- I. "Mayor's Office of Contract Compliance" means the City agency established pursuant to Article III, Division 1 of Chapter 28 of the Denver Revised Municipal Code.

<u>RULE II</u> NOTICE OF HEARING

When results of conciliation efforts are unsatisfactory to the Manager and he is informed in accordance with Article III, Division 2 of Chapter 28 of the Revised Municipal Code that a contractor or subcontractor has apparently failed to meet affirmative action and equal employment opportunity requirements after a reasonable period of notice to correct deficiencies, the Manager will, prior to imposition of any sanctions, afford the general contractor a hearing in order to determine whether the contractor or his subcontractors have failed to comply with the affirmative action and equal employment opportunity requirements of Article III, Division 2 of Chapter 28 of the Revised Municipal Code or of the contract. Written notice of such hearing shall be delivered personally or sent by certified mail return receipt requested, to the contractor and to any subcontractor involved at least ten days prior to the date scheduled for the hearing.

<u>RULE III</u> HEARING

- A. Contractors will appear at hearings and may be represented by counsel, and may present testimony orally and other evidence.
- B. Hearings shall be conducted by one or more hearing examiners designated as such by the Manager.
- C. The Director of the Mayor's Office of Contract Compliance may participate in hearings as a witness.
- D. Hearings shall be held at the place specified in the notice of hearing.
- E. All oral testimony shall be given under oath or affirmation and a record of such proceedings shall be made.
- F. All hearings shall be open to the public.
- G. The hearing officer shall make recommendations to the Manager who shall make a final decision.

REGULATIONS

<u>REGULATION NO. 1</u>. **ORDINANCE**: The Rules and Regulations of the Manager shall be inserted in the bidding specifications for every contract for which bidding is required.

REGULATION NO. 2. **EXEMPTIONS:** Each contract and subcontract, regardless of dollar amount, shall be subject to affirmative action requirements unless specifically exempted in writing individually by the Manager. Exemptions apply only to "affirmative action" in equal employment opportunity, and are not to be construed as condonation in any manner of "discrimination" or "discriminatory practices" in employment because of race, color, creed sex age national origin, religion, marital status, political opinion or mental or physical handicap.

REGULATION NO. 3. DIRECTOR OF CONTRACT COMPLIANCE: The Director of the Mayor's Office of Contract Compliance shall perform the duties assigned to such official by Article III, Division 2 of Chapter 28 of the Revised Municipal Code and by the Manager. (1) The Director of the Mayor's Office of Contract Compliance or designated representatives shall inform. bidders and contractors of affirmative action procedures, programs, and goals in accordance with the ordinance at pre-bid and pre-construction conference; (2) make regular on-site inspections; (3) supply contractors and subcontractors with report forms to be completed by them when requested, and furnished to the Director of the Mayor's Office of Contract Compliance; and (4) review payroll records, employment records and practices of general contractors and their subcontractors and suppliers during the performance of any contract. The Director of the Mayor's Office of Contract Compliance shall promptly report apparent affirmative action deficiencies to the Manager.

REGULATION NO. 4. GOALS AND TIMETABLES: In general, goals and timetables should take into account anticipated vacancies and the availability of skills in the market place from which employees should be drawn. In addition, where discrimination in employment by a general contractor or any of his subcontractors is indicated, a corrective action program will take into account the need by the general contractor and his subcontractors to correct past discriminatory practices and reach goals of minority manpower utilization on a timely basis through such recruiting and advertising efforts as are necessary and appropriate.

<u>REGULATION NO.5</u>. **AWARD OF CONTRACTS:** It shall be the responsibility of the Director of the Mayor's Office of Contract Compliance to determine the affirmative action capability of bidders, contractors and subcontractors and to recommend to the Manager the award of contracts to those bidders, contractors and subcontractors and suppliers who demonstrate the ability and willingness to comply with the terms of their contract.

<u>REGULATION NO. 6</u>. **PUBLICATION AND DUPLICATION:** Copies of these Rules and Regulations as amended by the Manager from time to time, shall as soon as practicable and after Notice being published will be made a part of all City Contracts.

<u>REGULATION NO. 7</u>. **NOTICE TO PROCEED:** Prior to issuance of Notice to Proceed a sign-off will be required of the Director of the Mayor's Office of Contract Compliance or his designee.

<u>REGULATION NO. 8</u>. **CONTRACTS WITH SUBCONTRACTORS:** To the greatest extent possible the contractor shall make a good faith effort to contract with minority contractors, subcontractors and suppliers for services and supplies by taking affirmative actions which include but are not limited to the following:

- 1. Advertise invitations for subcontractor bids in minority community news media.
- 2. Contact minority contractor organizations for referral of prospective subcontractors.
- 3. Purchase materials and supplies from minority material suppliers.

<u>REGULATION NO. 9</u>. **AGENCY REFERRALS:** it shall be no excuse that the union with which the contractor or subcontractor has an agreement providing for referral, exclusive or otherwise, failed to refer minority employees.

<u>REGULATION NO. 10</u>. **CLAUSES:** The Manager shall include the appropriate clauses in every contract and the contractor shall cause to be inserted in every subcontract the appropriate clauses:

- 1. **APPENDIX A:** City and County of Denver Equal Opportunity Clause-ALL CONTRACTS funded only with City & County of Denver monies.
- 2. APPENDIX B: Equal Opportunity Clause (11246)-ALL FEDERAL ASSISTED
- 3. **APPENDIX C:** Section 3-Assurance of Compliance-HUD ASSISTED PROJECTS.
- 4. **APPENDIX D:** Section 3-Clause-HUD ASSISTED PROJECTS.

All amendments to the appendices shall be included by reference.

REGULATION NO. 11. SHOW CAUSE NOTICES: When the Manager has reasonable cause to believe that a contractor has violated Article III, Division 2 of Chapter 28 of the Revised Municipal Code, he may issue a notice requiring the contractor to show cause, within fifteen days why enforcement procedures, or other appropriate action to insure compliance, should not be instituted.

REGULATION NO. 12. BID CONDITIONS-AFFIRMATIVE ACTION REQUIREMENTS-EQUAL EMPLOYMENT OPPORTUNITY:

1. APPENDIX E:

The Bid Conditions- Affirmative Action Requirements-Equal Employment Opportunity as amended and published by the U.S. Department of Labor, Employment Standards Administration, Office of Federal Contract Compliance, shall be inserted verbatim for bidding specification for every non-exempt contract involving the use of Federal funds.

2. APPENDIX F:

The Bid Conditions- Affirmative Action Requirements-Equal Employment Opportunity as published by the Department of Public Works, City and County of Denver shall be inserted verbatim as bidding specifications for every non-exempt contract using City funds.

APPENDIX A

CITY AND COUNTY OF DENVER EQUAL OPPORTUNITY CLAUSE-ALL CONTRACTS

- 1. The contractor will not discriminate against any employee or applicant for employment because of race creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection f6r training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, age, national origin, religion, marital status, political opinion or affiliation, or mental or physical handicap.
- 3. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided, advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. Each contractor will comply with all provisions of Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the rules, regulations, and relevant orders of the Manager and Director.
- 5. The contractor will furnish all information and reports required by Article III, Division 2, Chapter 28 of the Revised Municipal Code, and by rules, regulations and orders of the Manager and Director or pursuant thereto, and will permit access to his books, records, and accounts by the Manager, Director or their designee for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders this contract may be cancelled, terminated., or suspended in whole or in part and the contractor may be declared ineligible for further City contracts in accordance with procedures authorized in Article III, Division 2, Chapter 28 of the Revised Municipal Code, or by rules, regulations, or order of the Manager.
- 7. The contractor will include Regulation 12 Paragraph 2 and the provisions of paragraphs (1) through (6) in every subcontract or purchase order unless, exempted by rules, regulations, or orders of the Manager issued pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, so that such provisions will be binding upon each subcontractor or suppliers. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

The applicant further agrees to be bound by the above equal opportunity clauses with respect to its own employment practices when it participates in City contracts. The contractor agrees to assist and cooperate actively with the Manager and the Director in obtaining compliance of subcontractors and suppliers with the equal opportunity clause and the rules, regulations and relevant orders of the Manager, and will furnish the Manager and the Director such information as they may require for the supervision of compliance, and will otherwise assist the Manager and Director in the discharge of the City's primary responsibility for securing compliance. The contractor further agrees to refrain from entering into any contract or contract modification subject to Article III, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who has not demonstrated eligibility for, City contracts. The contractor will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the Manager and Director. In addition, the contractor agrees that failure or refusal to comply with these undertakings the

- Manager may take any or all of the following actions: A. Cancellation, termination, or suspension in whole or in part of this contract.
- B. Refrain from extending any further assistance to the applicant under the program with respect to which the failure occurred until satisfactory assurance of future compliance has been received from such applicant.
- C. Refer the case to the City Attorney for appropriate legal proceedings.

SUBCONTRACTS: Each prime contractor or subcontractor shall include the equal opportunity clause in each of its subcontracts.

APPENDIX F BID CONDITIONS AFFIRMATIVE ACTION REQUIREMENTS EQUAL EMPLOYMENT OPPORTUNITY

For all Non-Exempt Construction Contracts to be Awarded by the City and County of Denver, Department of Public Works

NOTICE

EACH BIDDER, CONTRACTOR OR SUBCONTRACTOR (HEREINAFTER THE CONTRACTOR) MUST FULLY COMPLY WITH THE REQUIREMENTS OF THESE BID CONDITIONS AS TO EACH CONSTRUCTION TRADE IT INTENDS TO USE ON THIS CONSTRUCTION CONTRACT, AND ALL OTHER CONSTRUCTION WORK (BOTH CITY AND NON-CITY) IN THE DENVER AREA DURING THE PERFORMANCE OF THIS CONTRACT OR SUBCONTRACT. THE CONTRACTOR COMMITS ITSELF TO THE GOALS FOR MINORITY MANPOWER UTILIZATION, AS APPLICABLE, AND ALL OTHER REQUIREMENTS, TERMS AND CONDITION OF THESE BID CONDITIONS BY SUBMITTING A PROPERLY SIGNED BID.

THE CONTRACTOR SHALL APPOINT A COMPANY EXECUTIVE TO ASSUME THE RESPONSIBILITY FOR THE IMPLEMENTATION OF THE REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS.

EULOIS CLECKLEY Manager of Public Works City and County of Denver

A. REQUIREMENTS -- AN AFFIRM ATIVE ACTION PLAN:

Contractors shall be subject to the provisions and requirements of these bid conditions including the goals and timetables for minority' and female utilization, and specific affirmative action steps set forth by the Office of Contract Compliance. The contractor's commitment to the goals for minority, and female utilization as required constitutes a commitment that it will make every good faith effort to meet such goals.

1. GOALS AND TIMETABLES:

The goals and timetables for minority¹ and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade are as follows:

GOALS FOR MINORITY PARTICIPATION FOR EACH TRADE	GOALS FOR FEMALE PARTICIPATION FOR EACH TRADE
From January 1, 1982	From January 1, 1982
to 21.7% - 23.5%	to 6.9%
Until Further Notice	Until Further Notice

The goals for minority and female utilization above are expressed in terms of hours of training and employment as a proportion of the total number of hours to be worked by the contractor's aggregate workforce, which includes all supervisory personnel, in each trade, on all projects for the City and County of Denver during the performance of its contract (i.e., The period beginning with the first day of work on the City and County of Denver funded construction contract and ending with the last day of work).

The hours of minority and female employment and training must be substantially uniform throughout the length of the contract in each trade and minorities and females must be employed evenly on each of a contractor's projects. Therefore, the transfer of minority or female employees from contractor to contractor or from project to project for the purpose of meeting the contractor's goals shall be a violation of these Bid Conditions.

If the contractor counts the nonworking hours of apprentices they must be employed by the contractor during the training period; the contractor must have made a commitment to employ apprentices at the completion of their training subject to the availability of employment opportunities; and the apprentices must be trained pursuant to training programs approved by the Bureau of Apprenticeship and Training.

¹ "Minority" is defined as including, Blacks, Spanish Surname Americans, Asian-Americans, and American Indians, and includes both men and Minority women.

2. SPECIFIC AFFIRMATIVE ACTION STEPS:

No contractor shall be found to be in noncompliance solely on account of its failure to meet its goals, but will be given an opportunity to demonstrate that the contractor has instituted all the specific affirmative action steps specified and has made every good faith effort to make these steps work toward the attainment of its goals within the timetables, all to the purpose of expanding minority and female utilization in its aggregate workforce. A contractor, who fails to comply with its obligation under the Equal Opportunity Clause of its contract and fails to achieve its commitments to the goals for minority and female utilization has the burden of proving that it has engaged in an Affirmative Action Program directed at increasing minority and female utilization and that such efforts were at least as extensive and as specific as the following:

- a. The contractor should have notified minority and female organizations when employment opportunities were available and should have maintained records of the organization's response.
- b. The contractor should have maintained a file of the names and addresses of each minority and female referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the contractor, the reasons. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred, not employed by the contractor, the file should have documented this and their reasons.
- c. The contractor should have promptly notified the Department of Public Works, and Mayor's Office of Contract Compliance when the union or unions with which the contractor has collective bargaining agreements did not refer to the contractor a minority or female sent by the contractor, or when the contractor has other information that the union referral process has impeded efforts to meet its goals.
- d. The contractor should have disseminated its EEO policy within its organization by including it in any employee handbook or policy manual; by publicizing it in company newspapers and annual reports and by advertising such policy at reasonable intervals in union publications. The EEO policy should be further disseminated by conducting staff meetings to explain and discuss the policy; by posting of the policy; and by review of the policy with minority and female employees.
- e. The contractor should have disseminated its EEO policy externally by informing and discussing it with all recruitment sources; by advertising in news media, specifically including minority and female news media; and by notifying and discussing it with all subcontractors.
- f. The contractor should have made both specific and reasonably recurrent written and oral recruitment efforts. Such efforts should have been directed at minority and female organizations, schools with substantial minority and female enrollment, and minority and female recruitment and training organizations within the contractor's recruitment area.

- g. The contractor should have evidence available for inspection that all tests and other selection techniques used to select from among candidates for hire, transfer, promotion, training, or retention are being used in a manner that does not violate the OFCCP Testing Guidelines in 41 CFR Part 60-3.
- h. The contractor should have made sure that seniority practices and job classifications do not have a discriminatory effect.
- i. The contractor should have made certain that all facilities are not segregated by race.
- j. The contractor should have continually monitored all personnel activities to ensure that its EEO policy was being carried out including the evaluation of minority and female employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.
- k. The contractor should have solicited bids for subcontracts from available minority and female subcontractors engaged in the trades covered by these Bid conditions, including circulation of minority and female contractor associations.

NOTE: The Director and the Mayor's Office of Contract Compliance will provide technical assistance on questions pertaining to minority and female recruitment sources, minority and female community organizations, and minority and female news media upon receipt of a request for assistance from a contractor.

3. NON-DISCRIMINATION:

In no event may a contractor utilize the goals and affirmative action steps required in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex, marital status, national origin, age, mental or physical handicap, political opinion or affiliation.

4. COMPLIANCE AND ENFORCEMENT:

In all cases, the compliance of a contractor will be determined in accordance with its obligations under the terms of these Bid Conditions. All contractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors in writing of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority and female employment and training.

A. <u>Contractors Subject to these Bid Conditions</u>:

In regard to these Bid Conditions, if the contractor meets the goals set forth therein or can demonstrate that it has made every good faith effort to meet these goals, the contractor shall be presumed to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, the implementing regulations and its obligations under these Bid Conditions. In the event, no formal sanctions or proceedings leading toward sanctions shall be instituted unless the contracting or administering agency otherwise determines that the contractor is violating the Equal Opportunity Clause.

1. Where the Office of Contract Compliance finds that a contractor failed to comply with the requirements of Article 111, Division 2, Chapter 28 of the Revised Municipal

Code or the implementing regulations and the obligations under these Bid Conditions, and so informs the Manager, the Manager shall take such action and impose such sanctions, which include suspension, termination, cancellation, and debarment, as may be appropriate under the Ordinance and its regulations. When the Manager proceeds with such formal action it has the burden of proving that the contractor has not met the goals contained in these Bid Conditions. The contractor's failure to meet its goals shall shift to it the requirement to come forward with evidence to show that it has met the good faith requirements of these Bid Conditions.

- The pendency of such proceedings shall be taken into consideration by the Department of Public Works in determining whether such contractor can comply with the requirements of Article 111, Division 2, Chapter 28 of the Revised Municipal Code, and is therefore a "responsible prospective contractor".
- 3. The Mayor's Office of Contract Compliance shall review the contractor's employment practices during the performance of the contract. If the Mayor's Office of Contract Compliance determines that the contractor's Affirmative Action Plan is no longer an acceptable program, the Director shall notify the Manager.

B. **Obligations Applicable to Contractors**:

It shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority or female employees. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act, as amended, Title VI of the Civil Rights Act of 1964, as amended, and Article III, Division 2, Chapter 28 of the Revised Municipal Code. It is the policy of the Department of Public Works that contractors have a responsibility to provide equal employment opportunity, if they wish to participate in City and County of Denver contracts. To the extent they have delegated the responsibility for some of their employment practices to a labor organization and, as a result, are prevented from meeting their obligations pursuant to Article III, Division 2, Chapter 28 of the Revised Municipal Code, such Contractors cannot be considered to be in compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, or its implementing rules and regulations.

C. General Requirements

Contractors are responsible for informing their subcontractors in writing regardless of tier, as to their respective obligations. Whenever a contractor subcontracts a portion of work in any trade covered by these Bid Conditions, it shall include these Bid Conditions in such subcontracts and each subcontractor shall be bound by these Bid Conditions to the full extent as if it were the prime contractor. The contractor shall not, however, be held accountable for the failure of its subcontractors to fulfill their obligations under these Bid Conditions. However, the prime contractor shall give notice to the Director of any refusal or failure of any subcontractor to fulfill the obligations under these Bid Conditions. A subcontractor's failure to comply will be treated in the same manner as such failure by a prime contractor.

- Contractors hereby agree to refrain from entering into any contract or contract modification subject to Article 111, Division 2, Chapter 28 of the Revised Municipal Code with a contractor debarred from, or who is determined not to be a "responsive" bidder for the City and County of Denver contracts pursuant to the Ordinance.
- The contractor shall carry out such sanctions and penalties for violation of these Bid Conditions and the Equal Opportunity Clause including suspension, termination and cancellation of existing subcontracts and debarment from future contracts as may be ordered by the Manager pursuant to Article 111, Division 2, Chapter 28 of the Revised Municipal Code and its implementing regulations.
- 3. Nothing herein is intended to relieve any contractor during the term of its contract from compliance with Article III, Division 2, Chapter 28 of the Revised Municipal Code, and the Equal Opportunity Clause of its contract with respect to matters not covered in these Bid Conditions.
- 4. Contractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the Office of Contract Compliance.
- Requests for exemptions from these Bid Conditions must be made in writing, with justification, to the Manager of Public Works, City and County Building, Room 379, Denver, Colorado 80202, and shall be forwarded through and with the endorsement of the Director.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned ______ [Bidder name], a corporation organized under the laws of the State of ______ [Bidder state], hereinafter referred to as the "Contractor" and ______ [Bond issuer], a corporation organized under the laws of the State of ______ [Bond company state], and authorized to transact business in the State of Colorado, hereinafter referred to as Surety, are held and firmly bound unto the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "CITY", in the penal sum of ______ [Bid amount text] Dollars (\$______), lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WHEREAS, the above Contractor has, as of the date of execution listed on the contract signature page, entered into a written contract with the City for furnishing all labor, materials, equipment, tools, superintendence, and other facilities and accessories for the construction of 202158849, Taxiway EE Construction, Denver International Airport, in accordance with the Technical Specifications, Contract Drawings and all other Contract Documents therefor which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, THEREFORE, the condition of this performance bond is such that if the Contractor:

- 1. Promptly and faithfully observes, abides by and performs each and every covenant, condition and part of said Contract, including, but not limited to, its warranty provisions, in the time and manner prescribed in the Contract, and
- 2. Pays the City all losses, damages (liquidated or actual, including, but not limited to, damages caused by delays in the performance of the Contract), expenses, costs and attorneys' fees, that the City sustains resulting from any breach or default by the Contractor under the Contract, then this bond is void; otherwise, it shall remain in full force and effect.

IN ADDITION, if said Contractor fails to duly pay for any labor, materials, team hire, sustenance, provisions, provender, or any other supplies used or consumed by said Contractor or its subcontractors in its performance of the work contracted to be done or fails to pay any person who supplies rental machinery, tools, or equipment, all amounts due as the result of the use of such machinery, tools, or equipment in the prosecution of the work, the Surety shall pay the same in an amount not exceeding the amount of this obligation, together with interest as provided by law.

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

(End of Page)

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this _____ day of _____, ____.

CONTRACTOR

Ву:_____

President

SURETY

Ву:_____

Attorney-in-Fact

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

CITY AND COUNTY OF DENVER

Ву:_____

MAYOR

Ву:_____

Chief Executive Officer Denver International Airport

APPROVED AS TO FORM:

KRISTIN M. BRONSON, Attorney for the City and County of Denver

By:__

Assistant City Attorney

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned [Proposer name], a corporation organized under the laws of the State of [Proposer state], hereinafter referred to as the "Contractor" and [Bonding company name], a corporation organized under the laws of the [Bonding company state], and authorized to transact business in the State State of of Colorado, hereinafter referred to as Surety, are held and firmly bound unto the CITY AND COUNTY OF DENVER, a municipal corporation of the State of Colorado, hereinafter referred to as the "CITY", in the penal sum of [Proposal amount text]), lawful money of the United States of America, for the payment of Dollars (\$ which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above Contractor has entered into a written contract with the City for furnishing all labor, materials, tools, superintendence, and other facilities and accessories for the construction of Contract No. _________Denver International Airport, in accordance with the Technical Specifications, Contract Drawings and all other Contract Documents therefor which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, **THEREFORE**, the condition of this payment bond obligation is such that if the Contractor shall at all times promptly make payments of all amounts lawfully due to all persons supplying or furnishing it or its subcontractors with labor and materials, rental machinery, tools, or equipment, used or performed in the prosecution of work provided for in the above Contract and shall indemnify and save harmless the City to the extent of any and all payments in connection with the carrying out of such Contract which the City may be required to make under the law, then this obligation shall be null and void, otherwise, it shall remain in full force and effect;

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract, or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

[END OF PAGE]

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this _____ day of _____, ____, ____.

CONTRACTOR

By:_____ President

SURETY

By:_____ Attorney-in-Fact

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

CITY AND COUNTY OF DENVER

By:_____ MAYOR

Ву:____

Chief Executive Officer Denver International Airport

APPROVED AS TO FORM:

KRISTIN M. BRONSON, Attorney for the City and County of Denver

Ву:_____

Assistant City Attorney

XII. ATTACHMENT 7, CERTIFICATE OF GOOD STANDING

CERTIFICATE OF GOOD STANDING

Please submit a Certificate of Good Standing from the Office of the Secretary of the State of Colorado for the proposing entity. XIII. PREVAILING WAGES

PREVAILING WAGES

Prevailing Wage information is contained in the pages immediately following this page.

These pages are not included in the page numbering of this Contract document



TO: All Users of the City and County of Denver Prevailing Wage Schedules
FROM: Ryland Feno, Classification & Compensation Technician II
DATE: January 04, 2021
SUBJECT: Latest Change to Prevailing Wage Schedules

Please be advised prevailing wage rates for some building, heavy, highway, and residential construction trades have not been updated by the United States Department of Labor (DOL) since March 1, 2002. The Career Service Board, in their meeting held on April 21, 2011, approved the use of the attached supplemental wage rates until prevailing wage rates for these classifications of work are again published by the United States Department of Labor in accordance with the Davis-Bacon Act.

The effective date for this publication will be **Friday**, **January 01**, **2021** and applies to the City and County of Denver for **HIGHWAY CONSTRUCTION PROJECTS** in accordance with the Denver Revised Municipal Code, Section 20-76(c).

General Wage Decision No. CO20210009 Superseded General Decision No. CO20200009 Modification No. 0 Publication Date: 01/01/2021 (6 pages)

Unless otherwise specified in this document, apprentices shall be permitted only if they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor (DOL). The employer and the individual apprentice must be registered in a program which has received prior approval by the DOL. Any employer who employs an apprentice and is found to be in violation of this provision shall be required to pay said apprentice the full journeyman scale.

Attachments as listed above.

*Career Service Board approved to adjust all Davis Bacon classifications under \$13.00 to comply with the city's minimum wage. The effective date is August 15, 2019. See page 7 for reference.

Office of Human Resources 201 W. Colfax Ave. Dept. 412 | Denver, CO 80202 p: 720.913.5751 | f: 720.913.5720 www.denvergov.org/humanresources "General Decision Number: CO20210009 01/01/2021

Superseded General Decision Number: CO20200009

State: Colorado

Construction Type: Highway

Counties: Denver and Douglas Counties in Colorado.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date
0		01/01/2021	

* CARP9901-008 11/01/2019

	Rates	Fringes
CARPENTER (Form Work Only)	.\$ 26.50	10.32

ELEC0068-016 03/01/2011

Rates Fringes TRAFFIC SIGNALIZATION: Traffic Signal Installation Zone 1.....\$ 26.424.75%+8.68Zone 2....\$ 29.424.75%+8.68 TRAFFIC SIGNAL INSTALLER ZONE DEFINITIONS Zone 1 shall be a 35 mile radius, measured from the following addresses in each of the following cities: Colorado Springs - Nevada & Bijou Denver - Ellsworth Avenue & Broadway Ft. Collins - Prospect & College Grand Junction - 12th & North Avenue Pueblo - I-25 & Highway 50 All work outside of these areas shall be paid Zone 2 rates. _____ ENGI0009-008 05/01/2018 Rates Fringes POWER EQUIPMENT OPERATOR: (3)-Hydraulic Backhoe (Wheel Mounted, under 3/4 yds), Hydraulic Backhoe (Backhoe/Loader combination), Drill Rig Caisson (smaller than Watson 2500 and similar), Loader (up to and including 6 cu. yd.).....\$ 28.25 10.70 (3)-Loader (under 6 cu. yd.) Denver County.....\$ 28.25 10.70 (3)-Motor Grader (bladerough) Douglas County.....\$ 28.25 10.70 (4)-Crane (50 tons and under), Scraper (single bowl, under 40 cu. yd).....\$ 28.40 10.70 (4)-Loader (over 6 cu. yd) Denver County.....\$ 28.40 10.70 (5)-Drill Rig Caisson (Watson 2500 similar or larger), Crane (51-90 tons), Scraper (40 cu.yd and over),....\$ 28.57 10.70 (5)-Motor Grader (bladefinish)

Douglas County\$ (6)-Crane (91-140 tons)\$	29.55	10.70 10.70
SUCO2011-004 09/15/2011		
	Rates	Fringes
CARPENTER (Excludes Form Work)\$	19.27	5.08
CEMENT MASON/CONCRETE FINISHER Denver\$ Douglas\$		5.75 3.00
ELECTRICIAN (Excludes Traffic Signal Installation)\$	35.13	6.83
FENCE ERECTOR (Excludes Link/Cyclone Fence Erection)\$	13.02	3.20
GUARDRAIL INSTALLER\$	12.89	3.20
HIGHWAY/PARKING LOT STRIPING:Painter Denver\$ Douglas\$		3.21 3.21
IRONWORKER, REINFORCING (Excludes Guardrail Installation)\$	16.69	5.45
IRONWORKER, STRUCTURAL (Includes Link/Cyclone Fence Erection, Excludes Guardrail Installation)\$	18.22	6.01
LABORER Asphalt Raker\$ Asphalt Shoveler\$ Asphalt Spreader\$ Common or General Denver\$	21.21 18.58	4.25 4.25 4.65 6.77
Douglas\$ Douglas\$ Concrete Saw (Hand Held)\$ Landscape and Irrigation\$ Mason Tender- Cement/Concrete	16.29 16.29	4.25 6.14 3.16
Denver\$ Douglas\$ Pipelayer	16.29	4.04 4.25
Denver\$ Douglas\$ Traffic Control (Flagger)\$	16.30	2.41 2.18 3.05

Traffic Control (Sets Up/Moves Barrels, Cones, Install Signs, Arrow Boards and Place Stationary Flags)(Excludes		
Flaggers)\$	12.43	3.22
PAINTER (Spray Only)\$	16.99	2.87
POWER EQUIPMENT OPERATOR:		
Asphalt Laydown	0.0 65	0 = 0
Denver\$		8.72
Douglas\$	23.67	8.47
Asphalt Paver	04.07	C 10
Denver\$		6.13
Douglas\$	25.44	3.50
Asphalt Roller Denver\$	00 10	7.55
Douglas\$		6.43
-		8.72
Asphalt Spreader\$ Backhoe/Trackhoe	22.07	8./2
Douglas\$	22 02	6.00
Bobcat/Skid Loader\$		4.28
Boom\$		8.72
Broom/Sweeper	22.07	0.72
Denver\$	22 47	8.72
Douglas\$		8.22
Bulldozer\$		5.59
Concrete Pump\$		5.21
Drill	22.00	5.21
Denver\$	20.48	4.71
Douglas\$		2.66
Forklift\$		4.68
Grader/Blade		
Denver\$	22.67	8.72
Guardrail/Post Driver\$		4.41
Loader (Front End)		
Douglas\$	21.67	8.22
Mechanic		
Denver\$		8.72
Douglas\$	23.88	8.22
Oiler		
Denver\$		8.41
Douglas\$	24.90	7.67
Roller/Compactor (Dirt and		
Grade Compaction)		
Denver\$		5.51
Douglas\$		4.86
Rotomill\$	16.22	4.41
Screed	00 67	0 00
Denver\$		8.38
Douglas\$	29.99	1.40

Tractor\$	13.13	2.95
TRAFFIC SIGNALIZATION: Groundsman		
Denver\$	17.90	3.41
Douglas\$	18.67	7.17
TRUCK DRIVER		
Distributor		
Denver\$	17.81	5.82
Douglas\$	16.98	5.27
Dump Truck		
Denver\$	15.27	5.27
Douglas\$		5.27
Lowboy Truck\$		5.27
Mechanic\$		3.50
Multi-Purpose Specialty &		
Hoisting Truck		
Denver\$	17.49	3.17
Douglas\$		2.88
Pickup and Pilot Car		
Denver\$	14.24	3.77
Douglas\$		3.68
Semi/Trailer Truck\$		4.13
Truck Mounted Attenuator\$		3.22
Water Truck		
Denver\$	26.27	5.27
Douglas\$		2.58
· · · · · · · · · · · · · · · · · · ·		

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Office of Human Resources Supplemental Rates (Specific to the Denver Projects) Revised 08/21/2019)

Classification		Base	Fringe
Guard Rail Installer		\$13.00	\$3.20
Highway Parking Lot Striping:			
Painter		\$13.00	\$3.21
Ironworker (Ornamental)		\$26.05	\$12.00
Laborer	Removal of Asbestos	\$21.03	\$8.55
Laborer (Landscape & Irrigation)		\$13.00	\$3.16
Laborer: Traffic Control (Flagger)		\$13.00	\$3.05
Laborer: Stationary Flags(
excludes Flaggers)		\$13.00	\$3.22
Line Construction	Lineman, Gas Fitter/Welder	\$36.88	\$9.55
	Line Eq Operator/Line Truck Crew	\$25.74	\$8.09
Millwright		\$28.00	\$10.00
Pipefitter		\$30.45	\$12.85
Plumber		\$30.19	\$13.55
Power Equipment Operator			
(Tunnels Above and Below			
Ground, shafts and raises):	Group 1	\$25.12	\$10.81
	Group 2	\$25.47	\$10.85
	Group 3	\$25.57	\$10.86
	Group 4	\$25.82	\$10.88
	Group 5	\$25.97	\$10.90
	Group 6	\$26.12	\$10.91
	Group 7	\$26.37	\$10.94
Power Equipment Operator	Group 1	\$22.97	\$10.60
	Group 2	\$23.32	\$10.63
	Group 3	\$23.67	\$10.67
	Group 4	\$23.82	\$10.68
	Group 5	\$23.97	\$10.70
	Group 6	\$24.12	\$10.71
	Group 7	\$24.88	\$10.79
Truck Driver	Group 1	\$18.42	\$10.00
	Group 2	\$19.14	\$10.07
	Group 3	\$19.48	\$10.11
	Group 4	\$20.01	\$10.16
	Group 5	\$20.66	\$10.23
	Group 6	\$21.46	\$10.31
Truck Driver: Truck Mounted	· ·		
Attenuator		\$13.00	\$3.22

Go to <u>http://www.denvergov.org/Auditor</u> to view the Prevailing Wage Clarification Document for a list of complete classifications used.



DENVER INTERNATIONAL AIRPORT

PARTIAL LIEN RELEASE – CONSTRUCTION

Project:	Date:	
City Contract No	Current Subcontract Amount: \$	
FROM: Subcontractor	(1) Last Progress Payment for billing period ending	20
Address:	\$	
City/State:	(2) Progress invoiced for previous billing period (if unpaid)	20
Telephone:	\$	
TO: Contractor	(3) Progress invoiced for current billing period ending	20
Address:	\$	
City/State:	(4) Total Paid to Date:	
	\$	
() MBE/WBE() SBE () DE	E () Non	

The Undersigned hereby certifies that all costs, charges or expenses incurred by the undersigned or on behalf of the undersigned for any work, labor or services performed and for any materials, supplies or equipment provided on the above referenced Project or used in connection with the above referenced Subcontract (the "Work Effort") have been duly paid in full to date.

The Undersigned further certifies that each of the undersigned's subcontractors and suppliers that incurred or caused to be incurred, on their behalf, costs, charges or expenses in connection with the undersigned's Work Effort on the above referenced Project have been duly paid in full to date.

The Undersigned hereby (1) acknowledges receipt of the progress payment referred to above as the Last Progress Payment which, when added to the total of all previous progress payments, constitutes full payment, less retainage, for all labor, services, material and supplies which the undersigned has provided for use in and upon

the project described above through ______, 20____ and, (2) hereby releases the Contractor, surety, the City and County of Denver, and any intermediate subcontractor or supplier of any tier from any and all claims prior to the above mentioned date, except for the withheld retainage.

The Undersigned also hereby agrees that the Contractor, Surety, the City and County of Denver, and any intermediate subcontractor or supplier of any tier shall be released from any and all claims arising out of its performance or non-performance of any contract associated with the above project through ______, 20

_____, except for withheld retainage after it has received full payment, less retainage, of the amount invoiced for the current billing period.

As additional consideration for the payments referenced above, the undersigned agrees to defend, indemnify and hold harmless the City, its officers, employees, agents and assigns and the above-referenced Contractor from and against all costs, losses, damages, causes of action, judgments under the subcontract and expenses arising out of or in connection with any claim or claims against the City or the Contractor which arise out of the Undersigned's performance of the Work Effort and which may be asserted by the Undersigned or any of its suppliers or subcontractors of any tier or any of their representatives, officers, agents, or employees.

It is acknowledged that this release is for the benefit of and may be relied upon by the City and the referenced Contractor.

The foregoing shall not relieve the undersigned of any obligation under the provisions of the Undersigned's subcontract, as the subcontract may have been amended, which by their nature survive completion of the Undersigned's work effort including, without limitation, warranties, guarantees, insurance requirements and indemnities.

Subcontractor:	 	
Certified by:		
Title:		
Date:		



DENVER INTERNATIONAL AIRPORT FINAL LIEN RELEASE – CONSTRUCTION (Subcontractor)

Project:		Date:	_
City Contract No		Subcontractor Contract No.	_
FROM:		Dated:, 20	_
Subcontractor:	(1)	Last Progress Payment for billing period ending	_, 20
Address:		\$	_
City/State:	(2)	Does not apply	
Telephone:			
TO:			
Contractor:	(3)	Does not apply	
Address:			
City/State:	(4)	Total Paid to Date:	
		\$	_
()SBE()DBE()MBE ()WBE	() No	on	

The Undersigned hereby certifies that all costs, charges or expenses incurred by the undersigned or on behalf of the undersigned for any work, labor or services performed and for any materials, supplies or equipment provided on the above referenced Project or used in connection with the above referenced Subcontract (the "Work Effort") have been duly paid in full.

The Undersigned further certifies that each of the undersigned's subcontractors and suppliers that incurred or caused to be incurred, on their behalf, costs, charges or expenses in connection with the undersigned's Work Effort on the above referenced Project have been duly paid in full.

Page 60 Final Lien Release

The undersigned Subcontractor hereby (1) acknowledges receipt of the progress payment referred to above as the Last Progress Payment which, when added to the total of all previous progress payments, constitutes full payment for all labor, services, materials and supplies which the undersigned has provided for use in and upon the project described above through ______, 20____ and, (2) hereby releases the Contractor, Surety, the City and County of Denver, and any intermediate subcontractor or supplier of any tier from any and all claims prior to the above mentioned date.

The Subcontractor also hereby agrees that the Contractor, Surety, the City and County of Denver, and any intermediate subcontractor or supplier of any tier shall be released from any and all claims arising out of its performance or non-performance of any contract associated with the above project.

As additional consideration for the payments referenced above, the undersigned agrees to defend, indemnify and hold harmless the City, its officers, employees, agents and assigns and the above-referenced Contractor from and against all costs, losses, damages, causes of action, judgments under the subcontract and expenses arising out of or in connection with any claim or claims against the City or the Contractor which arise out of the Undersigned's performance of the Work Effort and which may be asserted by the Undersigned or any of its suppliers or subcontractors of any tier or any of their representatives, officers, agents, or employees.

It is acknowledged that this release is for the benefit of and may be relied upon by the City and the referenced Contractor.

The foregoing shall not relieve the undersigned of any obligation under the provisions of the Undersigned's subcontract, as the subcontract may have been amended, which by their nature survive completion of the Undersigned's work effort including, without limitation, warranties, guarantees, insurance requirements and indemnities.

Subcontractor: _____

Certified by: _____

Title:

Date: _____



July 13, 2021

Taxiway EE Construction

IFB NO. 202158849

ADDENDUM NUMBER 1

This Addendum Number 1 supersedes and/or supplements all portions of the Bid Documents with which it conflicts. Proposers must acknowledge receipt of this addendum in the Attachment 1 Part 1 Bid Acknowledgement Letter.

Tony Deconincle

Tony Deconinck Contract Administrator Contract Services





DENVER INTERNATIONAL AIRPORT

TAXIWAY EE CONSTRUCTION

IFB NO. 202158849

ADDENDUM NUMBER 1

Scope of this Addendum

Addendum Number 1 includes modifications to the Invitation for Bid Documents issued July 1, 2021. These modifications are deemed necessary by the City and County of Denver.

BID FORMS

Please see attached for revisions.

PART II TECHNICAL SPECIFICATIONS

Please see attached for revisions.

PLANS

Please see attached for revisions.

The total number of pages (including cover sheet) contained in this Addendum Number 1 is eighty-four (84).

* * * * * * *

End of Addendum Number 1.



ADDENDUM NO. 1 TO PLANS FOR IMPROVEMENTS TO DENVER INTERNATIONAL AIRPORT DENVER, COLORADO TAXIWAY EE GRADING, DRAINAGE, PAVING, AND LIGHTING DEN CONTRACT NO. 202158849

Bidders are informed that the above referenced Plans are modified as follows as of July 13, 2021.

1. BID FORMS

Delete Bid Forms and replace with attached Bid Forms.

Item P-1011 Remove Gravel Road – Item quantity for Schedule I changed to 2,280 SY.

Item P-220b Cement – Item added with a quantity for Schedule I of 1,000 Tons.

Item P-620e Type I Roadway Delineators – Item added with a quantity for Schedule I of 36 EA.

Item D-701a Install 24" Class V RCP – Item quantity for Schedule I changed to 3,366 LF.

Item D-701d Install 48" Class V RCP – Item quantity for Schedule I changed to 2,870 LF.

Item D-701g Remove 30" RCP - Item added with a quantity for Schedule I of 97 LF.

Item D-710b name changed to "Remove and Stockpile Existing Type "VH" Riprap" with a quantity for Schedule I of 230 CY.

Item D-710c Grouted Type "VH" Riprap (From On-Site Stockpile) – Item added with a quantity for Schedule I of 230 CY.

Item D-710d Grouted Type "VH" Riprap (New) – Item added with a quantity for Schedule I of 404 CY.

Item D-751c name changed to "Install Oversized Triple Type II Inlet" with a quantity for Schedule I of 1 EA.

Item D-751g name changed to "Remove Existing Inlet" with a quantity for Schedule I of 1 EA.

Item D-751i Tie to Existing Structure – Item quantity for Schedule I changed to 1 EA.

Item L-160a Furnish 250kW Generator for 35L ALSFII/17R LOC Temp Power (208Y/120V, 3-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160b Connect 250kW Generator for 35L ALSFII/17R LOC Temp Power - Item added with a quantity for Schedule I of 1 $\rm EA$

Item L-160c Operate 250kW Generator - Item added with a quantity for Schedule I of 2 Days

Item L-160d Furnish 50kW Generator for RTR-A Temp Power (208Y/120V, 3-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160e Furnish 50kW Generator for RTR-B Temp Power (208Y/120V, 3-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160f Furnish 50kW Generator for ASDE Temp Power (208Y/120V, 3-phase) - Item added with a quantity for Schedule I of 1 $\rm EA$

Item L-160g Furnish 50kW Generator for 17R MALSR/35L LOC Temp Power (120/240V, 1-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160h Install 100A Power Inlet at RTR-A or RTR-B - Item added with a quantity for Schedule I of 2 EA

Item L-160
i Connect 50kW Generator for ASDE Temp Power - Item added with a quantity for Schedule I of 1 EA

Item L-160j Connect 50kW Generator for 17R MALSR/35L LOC Temp Power - Item added with a quantity for Schedule I of 1 $\rm EA$

Item L-160k Operate 50kW Generator - Item added with a quantity for Schedule I of 13 Days

Item L-160l Furnish 30kW Generator for 17R GS or 35L GS Temp Power (120/240V, 1-phase) - Item added with a quantity for Schedule I of 2 EA

Item L-160m Furnish 30kW Generator for DEN VOR Temp Power (120/240V, 1-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160n Connect 30kW Generator for 17R GS or 35L GS Temp Power - Item added with a quantity for Schedule I of 2 EA

Item L-1600 Connect 30kW Generator for DEN VOR Temp Power - Item added with a quantity for Schedule I of 1 EA

Item L-160p Operate 30kW Generator - Item added with a quantity for Schedule I of 6 Days

Item L-160q Furnish 15kW Generator for RTR-E Temp Power (120/240V, 1-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160r Operate 15kW Generator for RTR-E Temp Power - Item added with a quantity for Schedule I of 1 $\rm EA$

Item L-160s Furnish 10kW Generator for Midfield RVR Temp Power (120/240V, 1-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160t Connect 10kW Generator for Midfield RVR Temp Power - Item added with a quantity for Schedule I of 1 EA

Item L-160u Operate 10kW Generator - Item added with a quantity for Schedule I of 2 Days

Item L-160v Furnish 5kW Generator for ASOS Temp Power (240V, 1-phase) - Item added with a quantity for Schedule I of 1 EA

Item L-160w Connect 5kW Generator for ASOS Temp Power - Item added with a quantity for Schedule I of $1\ \mathrm{EA}$

Item L-160x Operate 5kW Generator - Item added with a quantity for Schedule I of 2 Days

Item L-160y Furnish 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power (120V, 1-phase) - Item added with a quantity for Schedule I of 2 EA

Item L-160z Connect 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power - Item added with a quantity for Schedule I of 2 EA

Item L-160aa Operate 1.8kW Generator - Item added with a quantity for Schedule I of 4 Days

2. PART II TECHNICAL SPECIFICATIONS

Division 2 Technical Specifications

Specification P-220 Cement Treated Soil Base Course

Replace specification P-220 in its entirety with the attached specification P-220.

Section 220-5.2 was modified to include measurement for cement.

Section 220-6.2 was modified to include payment for cement.

P-220b Cement – per ton was added to the pay items.

Specification P-620 Runway and Taxiway Marking

Replace specification P-620 in its entirety with the attached specification P-620.

Section 620-4.5 was added to include measurement for Type I Delineators.

Section 620-5.6 was added to include payment for Type I Delineators.

P-620e Type I Roadway Delineators - per each was added to the pay items.

Specification D-701 Pipe for Storm Drains and Culverts

D-701g Remove 30" RCP – per linear foot was added to the pay items.

Specification P-710 Rock Riprap

Replace specification P-710 in its entirety with the attached specification P-710.

Section 710-3.1a.(2) was modified to read Type "VH" in lieu of Type "H".

Table 1 was modified to read Type "VH" in lieu of Type "H".

Section 710-5.2 was modified to read Removal and Stockpiling of Existing Type "VH" riprap in lieu of Type "H" rock riprap grouted.

Section 710-5.3 was added to include measurement for Grouted Type "VH" Riprap (From On-Site Stockpile).

Section 710-5.4 was added to include measurement for Grouted Type "VH" Riprap (New).

Section 710-6.2 was modified to read Removal and Stockpiling of Existing Type "VH" riprap in lieu of Type "H" rock riprap grouted.

Section 710-6.3 was added to include payment for Grouted Type "VH" Riprap (From On-Site Stockpile).

Section 710-6.4 was added to include payment for Grouted Type "VH" Riprap (New).

D-710b was changed to read Remove and Stockpile Existing Type "VH" Riprap – per cubic yard.

D-710c Grouted Type "VH" Riprap (From On-Site Stockpile) – per cubic yard was added to the pay items.

D-710d Grouted Type "VH" Riprap (New) – per cubic yard was added to the pay items.

3. PLANS

Sheet G-004

Replace sheet G-004 with the attached sheet G-004.

Modified summary of approximate quantities (table).

Modified note 13.

Added notes 26 through 31.

Sheets G-005

Replace sheet G-005 with the attached sheet G-005.

Modified summary of approximate quantities (table).

Sheet G-005a

Added sheet in its entirety.

Sheet C-102

Replace sheet C-102 with the attached sheet C-102.

Added storm sewer removal.

Changed the callout to read "Remove Existing Inlet".

Sheet CI107

Replace sheet CI107 with the attached sheet CI107.

Added a cross section for the vehicle turn around area.

Sheet C-301

Replace sheet C-301 with the attached sheet C-301.

Added a detail for bridging soft subgrade.

Sheet CG102

Replace sheet CG102 with the attached sheet CG102.

Added the installation of 24" RCP to this sheet.

Removed the callout to convert an inlet to a manhole.

Sheet CU501

Replace sheet CU501 with the attached sheet CU501.

Removed the inlet to manhole conversion detail.

Sheet CU502

Replace sheet CU502 with the attached sheet CU502.

Modified Detail 2.

Sheet CU102

Replace sheet CU102 with the attached sheet CU102.

Added the installation of 24" RCP to this sheet.

Removed the callout to convert an inlet to a manhole.

Sheets CU201 through CU209

Replace sheets CU201 through CU209 with the attached sheets CU201 through CU209.

Existing utility crossings were revised on plans and profiles on all sheets.

Grading and riprap for the outfall of the 48" RCP on Sheet CU208 have been revised.

Type M Riprap called out on Sheet CU209.

Proposed pavement has been shown in profiles where applicable.

Sheets CJ105 and CJ112 through CJ113

Replace sheets CJ105 and CJ112 through CJ113 with the attached sheets CJ105 and CJ112 through CJ113.

Added locations for Type I Roadway Delineators.

Sheet CJ502

Replace sheet CJ502 with the attached sheet CJ502.

Added details for Roadway Delineators.

Sheets E-770 and E-775 through E-776

Added sheets in their entirety to show temporary generator locations and details.

** END OF ADDENDUM NO. 1 **

	BID PROPOSAL SUMMARY
Bidder Name:	
SCHEDULE I TOTAL	
SCHEDULE II TOTAL	
TOTAL ALL SCHEDULES	~
Bidder has examined the proposed	Bidder has examined the proposed site and is familiar with all site conditions.
Signature	

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Issued for Addendum No. 1 July 13, 2021

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: dollars and cents.	LS	1	\$	\$9
C-105a	Mobilization	at the unit price of: dollars and cents.	LS	1	\$7⊧	\$€
013223a	Construction As-built Survey	at the unit price of: dollars and cents.	LS	1	\$€	\$€
015050a	Textura Software Fee	at the unit price of: dollars and cents.	LS	1	\$⊅=	\$7
015525a	Flagger	at the unit price of: dollars and cents.	HR	22,080	\$€	\$€
015525b	Gate Guard	at the unit price of: dollars and cents.	HR	17,360	\$	\$
015525c	Gate Guard Shack	at the unit price of: dollars and cents.	LS	1	\$	\$
015525d	Traffic Control	at the unit price of: dollars and cents.	LS	1	\$	\$∱
015719a	Temporary Erosion Control	at the unit price of: dollars and cents.	ΓS	1	\$	\$
P-101a	Remove Portland Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	2,484	69	69
P-101b	Remove Portland Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	425	69	69
P-101c	Remove Portland Cement Concrete Pavement (Non- Reinforced, 21")	at the unit price of: dollars and cents.	SY	143	69	\$
P-101d	Full Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	16,551	∳	\$∱
P-101e	Partial Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	158	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-101f	Remove Permeable Base at the unit price of: Course and	at the unit price of: dollars and cents.	SY	17,862	\$	\$9
P-101g	Remove Cement Treated at the unit price of: Base Course and	at the unit price of: dollars and cents.	SY	1,877	\$7	\$9≠
P-101h	Remove Cement Treated Subgrade	at the unit price of: dollars and cents.	SY	2,356	\$€	\$9
P-101i	Remove Asphalt Road - Complete	at the unit price of: dollars and cents.	SY	4,661	\$7	\$9
P-101j	Grind Cement Treated Base Course (0" to 1")	at the unit price of: dollars and cents.	SY	300	\$9	\$9
P-101k	Pavement Marking Removal	at the unit price of: dollars and cents.	SF	10,000	\$	\$9
P-1011	Remove Gravel Road	at the unit price of: dollars and cents.	SY	2,280	\$	\$
P-152a	Unclassified Excavation	at the unit price of: dollars and cents.	CY	820,000	\$	\$
P-152b	Excavation for Undercut	at the unit price of: dollars and cents.	CY	19,927	\$	\$9
P-152c	Embankment (Common at the unit price of: Fill) and	at the unit price of: dollars and cents.	CY	250,000	\$	\$
P-152d	Embankment (Stockpile Excess Material)	at the unit price of: dollars and cents.	CY	472,000	\$	\$
P-152e	Upper Select Subgrade	at the unit price of: dollars and cents.	CY	10,900	\$	\$
P-152f	Lower Select Subgrade	at the unit price of: dollars and cents.	CY	98,000	\$€	\$9
P-152g	Subgrade Preparation (12")	at the unit price of: dollars and cents.	SY	65,374	\$	\$
P-152h	Rock Excavation	at the unit price of: dollars and cents.	CY	10,000	\$	\$
P-159a	Concrete Crushing	at the unit price of: dollars and cents.	NOT	2,950	\$	\$
P-220a	Cement Treated Soil Base Course	at the unit price of: dollars and cents.	SY	65,374	\$⊅=	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-220b	Cement	at the unit price of: dollars and cents.	TON	1,000	\$	\$
P-304a	Cement Treated Base Course	at the unit price of: dollars and cents.	SY	63,897	\$	\$
P-304Ca	CDOT Class 6 Roadway Base	at the unit price of: dollars and cents.	CY	1,975	\$	\$7
P-307a	Cement Treated Permeable Base Course (CTPB) 7"	at the unit price of: dollars and cents.	λS	46,297	\$	\$
P-403a	Bituminous Surface Course	at the unit price of: dollars and cents.	NOT	9,068	\$	\$7⊧
P-403b	Bituminous Base Course	at the unit price of: dollars and cents.	NOT	17,670	\$	\$7⊧
P-501a	Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	44,613	\$	\$
P-501b	Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	9,207	\$	\$
P-501c	Cement Concrete Pavement (Non Reinforced, 21")	at the unit price of: dollars and cents.	SY	6,523	\$	\$
P-501d	Cement Concrete Pavement (Reinforced, 21")	at the unit price of: dollars and cents.	SY	1,965	\$	\$
P-501e	Bond Breaker Fabric	at the unit price of: dollars and cents.	SY	62,308	\$	\$
P-610a	Cement Treated Base Repair	at the unit price of: dollars and cents.	SY	150	\$	\$
P-620a	Pavement Markings, Waterborne	at the unit price of: dollars and cents.	SF	44,754	\$	\$∱
P-620b	Pavement Markings, Metacrylate	at the unit price of: dollars and cents.	SF	3,075	\$	\$
P-620c	Reflective Media	at the unit price of: dollars and cents.	LB	1,796	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-620d	Ston Sien	e unit price of:	EA	2	¢,	¢.
R070 1		and cents.	1 2777	1	ŧ	÷
P-620e	Type I Roadway Delineator	at the unit price of: dollars and cents.	EA	36	\$	\$
D-701a	Install 24" Class V RCP	e unit price of:	LF	3,366	\$€	\$
D-701b	Install 30" Class V RCP	e unit price of:	LF	413	\$	\$∱
D-701c	Install 36" Class V RCP	at the unit price of: dollars and cents.	LF	267	\$	\$
D-701d	Install 48" Class V RCP	at the unit price of: dollars and cents.	LF	2,870	\$	\$
D-701e	Install 24" FES	at the unit price of: dollars and cents.	EA	2	\$	\$
D-701f	Install 48" FES	at the unit price of: dollars and cents.	EA	1	\$	\$
D-701g	Remove 30" RCP	at the unit price of: dollars and cents.	LF	67	\$	\$
D-705a	Install 6" Underdrain (Perforated PVC)	at the unit price of: dollars and cents.	LF	10,485	\$	\$
D-705b	Install 6" Underdrain (Non-Perforated PVC)	at the unit price of: dollars and cents.	LF	2,510	\$	\$
D-705c	Repair Damaged Underdrain Pipe	at the unit price of: dollars and cents.	LF	200	\$	\$
D-705d	Install Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	80	\$	\$
D-705e	Remove Underdrain Pipe at the unit price of: and	at the unit price of: dollars and cents.	LF	4,092	\$	\$
D-705f	Remove Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	7	\$	\$
D-710a	Grouted Type "M" Riprap	at the unit price of: dollars and cents.	CY	5	\$	\$
D-710b	Remove and Stockpile Existing Type "VH" Riprap	at the unit price of: dollars and cents.	CY	230	\$47≠	\$1

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-701c	Grouted Type "VH" Riprap (From On-Site Stockpile)	at the unit price of: dollars and cents.	CY	230	\$	\$
D-701d	Grouted Type "VH" Riprap (New)	at the unit price of: dollars and cents.	CY	404	\$	\$
D-751a	Install New Triple Type II Inlet Structure	at the unit price of: dollars and cents.	EA	0	\$	\$∕}=
D-751b	Install New Double Type at the unit price of: II Inlet Structure and	at the unit price of: dollars and cents.	EA	7	\$	\$∕}=
D-751c	Install Oversized Triple Type II Inlet	at the unit price of: dollars and cents.	EA	1	\$€	\$∕}=
D-751d	Install Airfield Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751e	Install Type B Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$
D-751f	Install Type P Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751g	Remove Existing Inlet	at the unit price of: dollars and cents.	EA	1	\$	\$
D-751h	Install Underdrain Manholes	at the unit price of: dollars and cents.	EA	16	\$€	\$∕}=
D-751i	Tie To Existing Structure at the unit price of: and	at the unit price of: dollars and cents.	EA	1	\$€	\$∕}=
T-901a	Seeding (Seed Mix Design 2)	at the unit price of: dollars and cents.	AC	235	\$€	\$?⊧
T-905a	Topsoiling	at the unit price of: dollars and cents.	CY	49,248	\$	\$
Т-908а	Hydraulic Mulching	at the unit price of: dollars and cents.	AC	235	\$	\$
T-908b	Erosion Control Blankets at the unit price of: and	at the unit price of: dollars and cents.	SY	86,527	\$	\$
L-108a		at the unit price of: dollars and cents.	LF	194,000	\$	\$}-
L-110a	1W-2" Sch. 40 PVC Conduit in Earth	at the unit price of: dollars and cents.	LF	550	\$	\$7 =

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-110b	1W-2" Sch. 40 PVC Conduit in New Concrete Pavement	at the unit price of: dollars and cents.	LF	7,580	\$	\$
L-110c	1W-2" Sch. 40 PVC Conduit in New Asphalt Pavement	at the unit price of: dollars and cents.	LF	13,425	\$	\$
L-110d	8W-4" Sch. 40 PVC Concrete Encased Duct Bank	at the unit price of: dollars and cents.	LF	1,800	\$	\$
L-110e	Broken Conduit Repair	at the unit price of: dollars and cents.	EA	2	\$	\$
L-110f	Remove Concrete Encased Duct Bank	at the unit price of: dollars and cents.	LF	9,550	\$	\$
L-115a	Install New Electrical Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$
L-115b	Adjust Existing Electrical at the unit price of: Manhole and	at the unit price of: dollars and cents.	EA	2	\$	\$
L-115c	Remove Existing Electrical Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$∕‡
L-120c	Install L-847-2 Circuit Selector Switch	at the unit price of: dollars and cents.	EA	1	\$	\$
L-120d	Install L-847-3 Circuit Selector Switch	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125a	L-852C LED Taxiway Unidirectional Centerline Light	at the unit price of: dollars and cents.	EA	3	\$	\$
L-125b	L-852C LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	101	\$	\$
L-125c	L-852K LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	80	\$	\$
L-125d	L-861T Quartz Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	62	\$7≠	\$≁

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125e	L-861T LED Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	66	\$9÷	\$4≠
L-125f	L-861T LED Taxiway Edge Light Mounted on L-868 Base Can	at the unit price of: dollars and cents.	EA	1	\$9÷	\$4≠
L-125g	L-868B 3/4" Thick Cover Plate	at the unit price of: dollars and cents.	EA	9	\$	\$
L-125h	L-867B 3/8" Thick Cover Plate	at the unit price of: dollars and cents.	EA	4	\$	\$
L-125i	New 22" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	172	\$	\$\$
L-125j	New 26" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	10	\$	\$7
L-125k	New L-867B Base Can in at the unit price of: New Asphalt Pavement and	at the unit price of: dollars and cents.	EA	121	\$	\$7
L-125l	New L-867B Base Can in Existing Asphalt Pavement	at the unit price of: dollars and cents.	EA	7	\$	\$7≠
L-125m	L-858 LED Guidance Sign - 2 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$
L-125n	L-858 LED Guidance Sign - 3 Mod	at the unit price of: dollars and cents.	EA	10	\$	\$
L-1250	L-858 LED Guidance Sign - 4 Mod	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125p	New Guidance Sign Foundation - 3 Mod	at the unit price of: dollars and cents.	EA	8	\$	\$
L-125q	New Guidance Sign Foundation - 4 Mod	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125r	New Guidance Sign Foundation - 5 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$47≑

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125s	Remove Existing Sign and Base	at the unit price of: dollars and cents.	EA	3	\$	\$
L-125t	Remove Fixture and Base Can	at the unit price of: dollars and cents.	EA	102	\$	\$
L-125u	Reconnect 2" Conduit at Location of Removed Base Can	at the unit price of: dollars and cents.	EA	2	\$€	\$7∓
L-125v	Remove and Replace Fixture or Sign ID Marker	at the unit price of: dollars and cents.	EA	215	\$€	69
L-125w	Remove and Replace Circuit ID Tag	at the unit price of: dollars and cents.	EA	92	\$	\$
L-125x	Cover Taxiway Edge Light	at the unit price of: dollars and cents.	EA	24	\$	\$
L-125y	Mask Off Taxiway Centerline Light	at the unit price of: dollars and cents.	EA	42	\$	\$
L-125z	Cover Guidance Sign	at the unit price of: dollars and cents.	EA	16	\$	\$
L-125aa	Edge Light Drain	at the unit price of: dollars and cents.	EA	6	\$	\$
L-132-5.1	Installation of New LLWAS Including All Equipment and Foundations, As Shown on Contract Documents	at the unit price of: dollars and cents.	ILS	1	€9	(/)
L-132-5.2	Removal of Existing LLWAS Including All Equipment and Foundations	at the unit price of: dollars and cents.	ΓS	1	\$9	69
L-132-5.3	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 4 Way 4 Inch	at the unit price of: dollars and cents.	LF	6,000	¢≎	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-132-5.4	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 2 Way 2 Inch	at the unit price of: dollars and cents.	LF	1,400	69	\$
L-132-5.5	#1/0 AWG, Bare Copper FAA Guard Wire Installed Above Duct Bank or Conduit, Including Ground Rods, Connections, and Terminations	at the unit price of:	LF	7,500	()	\$7
L-132-5.6	FAA Communications Manhole, 6 Feet by 6 Feet	at the unit price of: dollars and cents.	EA	7	\$	\$7
L-132-5.7	FAA Power Manhole, 6 Feet by 6 Feet	at the unit price of: dollars and cents.	EA	4	\$	\$
L-132-5.8	2-#2 AWG and 1-#4 AWG Ground Cable Installed in Duct Bank or at the unit price of: Conduit, Including All and Connections and Terminations	at the unit price of: dollars and cents.	LF	1,550	(A)	\$∱
L-140a	Post-Construction Photometric Testing	at the unit price of: dollars and cents.	LS	1	∳	\$
L-150-1	Fiber Optic Cable Installed in Innerduct in Duct or Conduit, Including Testing and Connections	at the unit price of: dollars and cents.	LF	36,000	(A)	\$7
L-150-2	25 pair #22 AWG Type USE Cable, Installed in Duct Bank or Conduit	at the unit price of: dollars and cents.	LF	800	\$	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-160a	Furnish 250kW Generator for 35L ALSFII/17R LOC Temp Power (208Y/120V, 3- phase)	at the unit price of: dollars and cents.	EA	1	₩	60
L-160b	Connect 250kW Generator for 35L ALSFII/17R LOC Temp and Power	at the unit price of: dollars and cents.	EA	1	69 -	69 :
L-160c	Operate 250kW Generator	at the unit price of: dollars and cents.	DAY	2	\$	\$
L-160d	Furnish 50kW Generator for RTR-A Temp Power (208Y/120V, 3-phase)	at the unit price of: dollars and cents.	EA	1	()	()
L-160e	Furnish 50kW Generator for RTR-B Temp Power (208Y/120V, 3-phase)	at the unit price of: dollars and cents.	EA	1	\$9 :	67
L-160f	Furnish 50kW Generator for ASDE Temp Power (208Y/120V, 3-phase)	at the unit price of: dollars and cents.	EA	1	()	69
L-160g	Furnish 50kW Generator for 17R MALSR/35L LOC Temp Power (120/240V, 1-phase)	at the unit price of: dollars and cents.	EA	1	69 7	59 :
L-160h	Install 100A Power Inlet at RTR-A or RTR-B	at the unit price of: dollars and cents.	EA	2	\$	\$
L-160i	Connect 50kW Generator for ASDE Temp Power	at the unit price of: dollars and cents.	EA	1	\$ ₽	€ ₽;

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-160j	Connect 50kW Generator for 17R MALSR/35L LOC Temp Power	at the unit price of: dollars and cents.	EA	1	\$	\$9
L-160k	Operate 50kW Generator at the unit price and	at the unit price of: dollars and cents.	DAY	13	\$	\$
L-160l	Furnish 30kW Generator for 17R GS or 35L GS at th Temp Power (120/240V, and 1-phase)	at the unit price of: dollars and cents.	EA	7	59	↔
L-160m	Furnish 30kW Generator for DEN VOR Temp Power (120/240V, 1- phase)	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160n	Connect 30kW Generator for 17R GS or 35L GS Temp Power	at the unit price of: dollars and cents.	EA	7	∽	\$
L-1600	Connect 30kW Generator for DEN VOR Temp Power	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160p	Operate 30kW Generator at the unit price and	at the unit price of: dollars and cents.	DAY	9	\$	\$
L-160q	Furnish 15kW Generator for RTR-E Temp Power (120/240V, 1-phase)	at the unit price of: dollars and cents.	EA	1	\$	\$>
L-160r	Operate 15kW Generator at the unit price for RTR-E Temp Power and	at the unit price of: dollars and cents.	EA	1	\$7≠	\$
L-160s	Furnish 10kW Generator for Midfield RVR Temp Power (120/240V, 1- phase)	at the unit price of: dollars and cents.	EA	1	\$	\$

	Total	\$	\$	\$	\$	\$	\$9	59 =	\$
	Unit Price	\$	\$	\$	\$	\$	69	€ ₽:	\$
	Estimated Quantity	1	2	1	1	2	5	2	4
	Units	EA	DAY	EA	EA	DAY	EA	EA	DAY
SCHEDULE I		at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.	at the unit price of: dollars and cents.
	Description	Connect 10kW Generator for Midfield RVR Temp Power	Operate 10kW Generator and	Furnish 5kW Generator for ASOS Temp Power (240V, 1-phase)	Connect 5kW Generator at the unit price of: for ASOS Temp Power and	Operate 5kW Generator	Furnish 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power (120V, 1-phase)	Connect 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power	Operate 1.8kW Generator
	Item No.	L-160t	L-160u	L-160v	L-160w	L-160x	L-160y	L-160z	L-160aa

SCHEDULE I TOTAL \$_

SCHEDULE II TOTAL \$

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Issued for Addendum No. 1 July 13, 2021 TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM P-220 CEMENT TREATED SOIL BASE COURSE AC 150/5370-10H

Item P-220 Cement Treated Soil Base Course

DESCRIPTION

6 **220-1.1** This item shall consist of constructing a base course by uniformly mixing soil, cement, and water. The 7 mixed material shall be spread, shaped, and compacted in accordance with these specifications and in 8 conformity to the dimensions and typical cross-section shown on the plans. Tests shall be required for each 9 approved soil included within the treated layer.

11 Runway, taxiway, or apron pavements shall be built in a series of parallel lanes using a plan that reduces the 12 number of longitudinal and transverse joints to a minimum.

MATERIALS

17 **220-2.1 Cement.** Cement shall conform to the requirements of ASTM C150, Type I/II.

19 220-2.2 Water. Water used in mixing or curing shall be from potable water sources. Other sources shall be 20 tested in accordance with ASTM C1602 prior to use.
21

22 220-2.3 Soil. The soil for this work shall consist of the upper most 18 inches of select embankment as placed
 23 and paid for by P-152b Upper Select Embankment.

25 220-2.4 Asphalt material. The types, grades, controlling specifications, and application temperatures for the asphalt materials used for curing the soil-cement shall be selected from the table below. The DEN Project 27 Manager will approve the specific material used.

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BITUMINOUS MATERIAL

True and Crede	Specification	Application 7	Temperature	
Type and Grade	Specification	Degrees °F	Degrees °C	
1	Cutb	ack Asphalt		
RC-70	ASTM D2028	120-160	50-70	
RC-250	ASTM D2028	160-200	70-95	
	Emul	sified Asphalt	•	
RS-1, SS-1	ASTM D977	75-130	25-55	
CRS-1	ASTM D2397	75-130	25-55	

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MIX DESIGN

34 220-3.1 Proportions. Before the start of base course construction, tests shall be made on the soil or soil-35 aggregate material to be stabilized to determine the quantity of cement required for the mix design, to provide 36 a minimum 200 psi unconfined compressive strength at 5 days.

37

Test specimens containing various amounts of cement shall be compacted per ASTM D558, and the optimum moisture determined for each test specimen. Samples at the optimum moisture shall be subjected to the wet-

40 dry and the freeze-thaw test in accordance with ASTM D559 and ASTM D560, respectively. The specimens

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM P-220 CEMENT TREATED SOIL BASE COURSE AC 150/5370-10H

- shall be tested for compressive strength in accordance with ASTM D1633. Tests are required for each approved
 soil which will be included in the treated layer.
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- 45 46

CONSTRUCTION METHODS

47 220-4.1 Control Strip. The first half-day of construction shall be considered the control strip. The Contractor 48 shall demonstrate, in the presence of the DEN Project Manager, that the materials, equipment, and construction 49 processes meet the requirements of the specification. The sequence and manner of rolling necessary to obtain 50 specified density requirements shall be determined. The maximum compacted thickness may be increased to 51 a maximum of 12 inches (300 mm) upon the Contractor's demonstration that approved equipment and 52 operations will uniformly compact the lift to the specified density. The DEN Project Manager must witness 53 this demonstration and approve the lift thickness prior to full production.

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55 Control strips that do not meet specification requirements shall be reworked, re-compacted or removed and 56 replaced at the Contractor's expense. Full operations shall not continue until the control strip has been accepted 57 by the RPR. The Contractor shall use the same equipment, materials, and construction methods for the 58 remainder of construction, unless adjustments made by the Contractor are approved by the DEN Project 59 Manager.

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61 220-4.2 Weather limitations. The material shall not be mixed or placed while the atmospheric temperature is 62 below 40°F (4°C) or when conditions indicate that the temperature may fall below 40°F (4°C) within 24 hours, 63 or when the weather is foggy or rainy, or to soils that are frozen or contain frost, or when the underlying 64 material is frozen. 65

66 **220-4.3 Maintenance.** The material shall be maintained in a condition that will meet all specification 67 requirements. When material has been exposed to excessive rain, snow, or freeze-thaw conditions, prior to 68 placement of additional material, the Contractor shall verify that materials still meet all specification 69 requirements. Equipment may be routed over completed sections of base course, provided that no damage 70 results and the equipment is routed over the full width of the completed base course. Any damage resulting to 71 the base course from routing equipment over the base course shall be repaired by the Contractor at their 72 expense. 73

74 220-4.4 Equipment. The course may be constructed with any equipment that will meet the requirements for 75 soil pulverization, cement application, mixing, water application, incorporation of materials, compaction, 76 finishing, and curing specified here.

78 220-4.5 Preparation. The area to be stabilized shall be graded and shaped to conform to the lines, grades and cross-section shown on the plans. Any soft or yielding areas in the subgrade shall be removed and replaced with acceptable soil and compacted to the specified density.

220-4.6 Pulverization. After completion of moist-mixing, the soil for the base course shall be pulverized so
that 100% by dry weight passes a 1-inch (25.0 mm) sieve and a minimum of 80% passes a No. 4 (4.75 mm)
sieve.

220-4.7 Cement application, mixing, and finishing. Mixing of the soil, cement, and water shall be
 accomplished by one of the following methods to be approved by the DEN Project Manager.

89 **a.** Mix in Place Method. Shape pulverized material to the cross-section indicated. Cement shall be applied so that when uniformly mixed with the soil, the specified cement content is obtained, and

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM P-220 CEMENT TREATED SOIL BASE COURSE AC 150/5370-10H

a sufficient quantity of cement-treated soil is produced to construct a compacted cement-treated 91 course conforming to the lines, grades, and cross-section indicated. Immediately after the cement 92 93 has been distributed, it shall be mixed with the soil. The cement shall not be mixed below the 94 required depth. Continue mixing until the cement has been sufficiently blended with the soil to 95 prevent the formation of cement balls when water is applied. Determine moisture content of the 96 mixture immediately after completion of mixing of the soil and cement. Provide water supply and 97 pressure distributing equipment that will permit the application within three (3) hours of all mixing 98 water on the section being processed. Incorporate water in the mix so that concentration of water 99 near the surface does not occur. After all mixing water has been applied, continue mixing until the water is uniformly distributed throughout the full depth of the mixture. Do not apply cement if 100 the soil moisture content exceeds the optimum moisture content specified for the cement-treated 101 102 mixture. After mixing is complete, the proportions of the mixture shall be in accordance with the approved mix design. 103 104 105 b. Central Plant Mix Method. Cement application, mixing, and spreading. Mixing of the soil, cement, 106 and water shall be accomplished by the central-plant-mixed method. The soil, cement, and water 107 shall be mixed in either a batch or continuous-flow type pugmill. The plant shall be equipped with 108 feeding and metering devices that will add the soil, cement, and water into the mixer in the specified 109 quantities. Soil and cement shall be mixed sufficiently to prevent cement balls from forming when water is added. Mixing shall continue until a uniform mixture of soil, cement, and water is obtained. 110 111 112 The mixture shall be hauled to the project in trucks equipped with protective covers. The mixture shall be placed on the moistened subgrade in a uniform layer by an approved spreader. Not more 113 114 than 30 minutes shall elapse between the placement of soil-cement in adjacent lanes. 115 The layer of soil-cement shall be uniform in thickness and surface contour and of sufficient 116 117 quantity that the completed base conforms to the required line, grade and cross-section. Dumping of the mixture in piles or windrows on the subgrade shall not be permitted. 118 119 120 Not more than 60 minutes shall elapse between the start of moist mixing and the start of 121 compaction of soil-cement. 122 123 220-4.8 Compaction. Compaction of the course shall begin within 30 minutes after mixing the cement into 124 the subgrade. All compaction operations shall be completed within 2 hours from the start of mixing. 125 126 The field density of the compacted mixture shall be at least 98% of the maximum density as determined by 127 ASTM D558. The in-place moisture content shall be determined in accordance with ASTM D2216. The 128 moisture content of the mixture at the start of compaction shall be within ± 2 percentage points of the optimum 129 moisture content. Maximum density refers to maximum dry density at optimum moisture content unless 130 otherwise specified. 131 132 220-4.9 Finishing and curing. After the final lift or course of treated subgrade has been compacted, it shall 133 be brought to the required lines and grades in accordance with the typical sections. 134 135 Finished portions of treated subgrade shall be protected to prevent equipment from marring, permanently deforming, or damaging completed work. 136 137 138 Not later than 24 hours after completion of final finishing, the surface shall be cured by application of an 139 emulsified asphalt uniformly applied to the surface of the completed base course at the rate of approximately

TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
DIVISION 2-AIRFIELD STANDARDS	TAXIWAY EE GRADING, DRAINAGE,
ITEM P-220 CEMENT TREATED SOIL BASE COURSE	PAVING, AND LIGHTING
AC 150/5370-10H	CONSTRUCTION CONTRACT NO. 202158849

- 0.2 gallons per square yard (0.91 l/m²). The curing material shall be maintained and applied as needed by the
 Contractor during the 7-day protection period.
- 142
- 143 Sufficient protection from freezing shall be provided for at least 7 days after its construction or as approved by 144 the DEN Project Manager.
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146 220-4.10 Construction limitations. At the end of each day's construction and/or when operations after 147 application of the cement are interrupted for more than 30 minutes, a straight transverse construction joint 148 shall be formed by a header or by cutting back into the compacted material to form a true vertical face.

- 149 Completed portions may be opened to light traffic, if approved by the DEN Project Manager, and provided 150 the curing is not impaired.
- 151

152 220-4.11 Surface tolerance. In those areas on which a subbase or base course is to be placed, the surface shall 153 be tested for smoothness and accuracy of grade and crown. Any portion lacking the required smoothness or 154 failing in accuracy of grade or crown shall be scarified to a depth of at least 3 inches (75 mm), reshaped and re-155 compacted to grade until the required smoothness and accuracy are obtained and approved by the DEN Project 156 Manager. The Contractor shall perform all final smoothness and grade checks in the presence of the DEN 157 Project Manager. Any deviation in surface tolerances shall be corrected by the Contractor at the Contractor's 158 expense.

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- a. Smoothness. The finished surface shall not vary more than +/- 3/8 inch (9 mm) when tested with a 12-foot (3.7-m) straightedge applied parallel with and at right angles to the centerline. The straightedge shall be moved continuously forward at half the length of the 12-foot (3.7-m) straightedge for the full length of each line on a 50-foot (15-m) grid.
 - **b.** Grade. The grade and crown shall be measured on a 50-foot (15-m) grid and shall be within +/-0.05 feet (15 mm) of the specified grade.

168 220-4.12 Acceptance sampling and testing. Cement Treated Solid Base course shall be accepted for density 169 and thickness on an area basis. Two test will be made for density and thickness for each 1200 square yards 170 (1000 square meters), but not less than four (4) tests per day of production. Sampling locations will be 171 determined on a random basis per ASTM D3665.

a. Density. The DEN Project Manager shall perform all density tests.

175 Each area shall be accepted for density when the field density is at least 100% of the maximum density of laboratory specimens compacted and tested per ASTM D558. The in-place field density 176 shall be determined per ASTM D1556 or ASTM D6938 using Procedure A, the direct transmission 177 178 method, and ASTM D6938 shall be used to determine the moisture content of the material. The 179 machine shall be calibrated in accordance with ASTM D6938. The in-place moisture content shall be determined in accordance with ASTM D2216. Perform in-place density test immediately after 180 181 completion of compaction to determine degree of compaction. Maximum density refers to maximum dry density at optimum moisture content unless otherwise specified. If the specified 182 density is not attained, the area represented by the failed test must be reworked and/or 183 recompacted at the Contractor's expense and two additional random tests made. This procedure 184 shall be followed until the specified density is reached. Maximum density refers to maximum dry 185 density at optimum moisture content unless otherwise specified. 186 187

b. Thickness. Depth tests shall be made by test holes or cores at least 3 inches (75 mm) in diameter that extend through the base. The thickness of the base course shall be within +0 and -1/2 inch

TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
DIVISION 2-AIRFIELD STANDARDS	TAXIWAY EE GRADING, DRAINAGE,
ITEM P-220 CEMENT TREATED SOIL BASE COURSE	PAVING, AND LIGHTING
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191	. ,	e specified thickness as determined by depth tests taken by the Contractor in the DEN Project Manager for each sublot.
192	r	
193	Thickness meas	surements may be determined by survey if allowed by the DEN Project Manager.
194		arements are used, the contractor shall provide survey prior to placement and after
195	completion on	a 25-foot (7.5 m) by 25-foot (7.5 m) survey grid.
196		
197		kness is deficient by more than 1/2-inch (12 mm), the material shall be removed to
198	full depth and r	replaced, at Contractor's expense.
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200 201		METHOD OF MEASUREMENT
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203 204 205	completed and accepted bas	nent treated soil base course shall be the number of square yards (square meter) of a course.
206		nent shall not be measured or paid for separately but will be considered incidental
207 208	to the project. The work un be measured by the ton (kg)	der this item shall be considered subsidiary to other items of work. Cement shall
209	be measured by the ton (ng)	•
210		
211		BASIS OF PAYMENT
212		
214	course. This price shall be fu	Ill compensation for furnishing all materials, except cement, and for all preparation,
215 216 217	delivering, placing, and mixi to complete the item.	ing of these materials; and for all labor, equipment, tools and incidentals necessary
215 216 217 218 219	delivering, placing, and mixit to complete the item.220-6.2 Payment shall be matter to the project. No payment	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this
215 216 217 218 219 220 221 222	delivering, placing, and mixit to complete the item.220-6.2 Payment shall be matter to the project. No payment	and of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and
215 216 217 218 219 220 221 222 223 223 224	delivering, placing, and mixit to complete the item.220-6.2 Payment shall be matter to the project. No payment material and for all delivery,	and of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and applete the item.
215 216 217 218 219 220 221 222 223 224 225	 delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to compare the project. No payment material and for all delivery. Payment will be made under the project of the project of the project. 	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item.
215 216 217 218 219 220 221 222 223 223 224	 delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a 	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item. Cement Treated Soil Base Course - per square yard (square meter)
215 216 217 218 219 220 221 222 223 224 225 226	 delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to compare the project. No payment material and for all delivery. Payment will be made under the project of the project of the project. 	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item.
215 216 217 218 219 220 221 222 223 224 225 226 227	 delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a 	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item. Cement Treated Soil Base Course - per square yard (square meter)
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215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234	delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a Item P-220b The publications listed belover for the text by	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item.
215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235	delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a Item P-220b	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item.
215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236	delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a Item P-220b The publications listed belo referred to within the text by ASTM International (ASTM	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item. r: Cement Treated Soil Base Course - per square yard (square meter) Cement - per ton (kg) REFERENCES w form a part of this specification to the extent referenced. The publications are y the basic designation only.
215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237	delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a Item P-220b The publications listed belover for the text by	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item. r: Cement Treated Soil Base Course - per square yard (square meter) Cement - per ton (kg) REFERENCES w form a part of this specification to the extent referenced. The publications are y the basic designation only. I) Standard Test Method for Sieve or Screen Analysis of Fine and Coarse
215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236	delivering, placing, and mixit to complete the item. 220-6.2 Payment shall be material and for all delivery, incidentals necessary to com Payment will be made under Item P-220a Item P-220b The publications listed belo referred to within the text by ASTM International (ASTM	ing of these materials; and for all labor, equipment, tools and incidentals necessary ade at the contract unit price per ton (kg) for Cement-shall be considered incidental shall be made for cement. This price shall be full compensation for furnishing this placing, and incorporation of this material, and for all labor, equipment, tools, and uplete the item. r: Cement Treated Soil Base Course - per square yard (square meter) Cement - per ton (kg) REFERENCES w form a part of this specification to the extent referenced. The publications are y the basic designation only.

DI	CHNICAL SPECIFICATION VISION 2-AIRFIELD STANI EM P-220 CEMENT TREATE	DARDS TAXIWAY EE GRADING, DRAINAG
	С 150/5370-10Н	CONSTRUCTION CONTRACT NO. 202158
0 1	ASTM C150	Standard Specification for Portland Cement
-2 -3 -4	ASTM C1602	Standard Specification for Mixing Water Used in the Production of Hydrau Cement Concrete
-5 -6 -7	ASTM C1632	Standard Practice for Making and Curing Soil-Cement Compression a Flexure Test Specimens in the Laboratory1
	ASTM C1633	Standard Test Methods for Compressive Strength of Molded Soil-Ceme Cylinders
51 52 53	ASTM D558	Standard Test Methods for Moisture-Density (Unit Weight) Relations of Se Cement Mixtures
54 55 56	ASTM D559	Standard Test Methods for Wetting and Drying Compacted Soil-Ceme Mixtures
57 58 59	ASTM D560	Standard Test Methods for Freezing and Thawing Compacted Soil-Ceme Mixtures
50 51	ASTM D977	Standard Specification for Emulsified Asphalt
52 53 54	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil In-Place by t Sand Cone Method
5 66	ASTM D2027	Standard Specification for Cutback Asphalt (Medium-Curing Type)
57 58	ASTM D2028	Standard Specification for Cutback Asphalt (Rapid-Curing Type)
59 70	ASTM D2397	Standard Specification for Cationic Emulsified Asphalt
71 72 73	ASTM D2487	Standard Practice for Classification of Soils for Engineering Purpor (Unified Soil Classification System)
74 75 76	ASTM D6938	Standard Test Method for In-Place Density and Water Content of Soil a Soil-Aggregate by Nuclear Methods (Shallow Depth)
7 7 78 79		**END OF ITEM P-220**

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ITEM P-620 RUNWAY AND TAXIWAY MARKING

DESCRIPTION

620-1.1 This item shall consist of the preparation and painting of numbers, markings, and stripes on the surface of runways, taxiways, and aprons, in accordance with these specifications and at the locations shown on the plans, or as directed by the DEN Project Manager. The terms "paint" and "marking material" as well as "painting" and "application of markings" are interchangeable throughout this specification.

MATERIALS

620-2.1 MATERIALS ACCEPTANCE. The Contractor shall furnish manufacturer's certified test reports, 14 15 for materials shipped to the project. The certified test reports shall include a statement that the materials meet the specification requirements. This certification along with a copy of the paint manufacturer's surface 16 17 preparation; marking materials, including adhesion, flow promoting and/or floatation additive; and application requirements must be submitted and approved by the DEN Project Manager prior to the initial 18 19 application of markings. The reports can be used for material acceptance or the DEN Project Manager may perform verification testing. The reports shall not be interpreted as a basis for payment. The Contractor shall 20 notify the DEN Project Manager upon arrival of a shipment of materials to the site. All material shall arrive 21 22 in sealed containers that are easily quantifiable for inspection by the DEN Project Manager.

620-2.2 MARKING MATERIALS. 24

TABLE 1. MARKING MATERIALS

Paint ¹			(Blass Beads ²	
Туре	Color	Fed Std. 595	Application Rate	Type Application Rate	
		Number	Maximum		Minimum
Waterborne	Yellow	33538	115 ft²/gal	Type I,	7 lb/gal
Type I or II			$(2.8 \text{ m}^2/\text{l})$	Gradation A	(0.85 kg/l)
Waterborne	Black	37038	115 ft²/gal	Not Used	Not Used
Type I or II			$(2.8 \text{ m}^2/\text{l})$		
Methacrylate	Yellow	33538	45 ft²/gal	Type I,	15 lb/gal
			$(1.1 \text{ m}^2/\text{l})$	Gradation A	(1.8 kg/l)
Methacrylate	Black	37038	45 ft²/gal	Not Used	Not Used
			$(1.1 \text{ m}^2/\text{l})$		

¹See paragraph 620-2.2a ²See paragraph 620-2.2b

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Paint. Paint shall be waterborne or methacrylate in accordance with the requirements of this paragraph. a. Paint colors shall comply with Federal Standard No. 595.

Waterborne. Paint shall meet the requirements of Federal Specification TT-P-1952F, Type I or Type II. The non-volatile portion of the vehicle for all paint types shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis.

Methacrylate. Paint shall be a two component, minimum 99% solids-type system conforming to the following:

41	(1)	Pign	nents. Component A. Percent by weight.
42			
43		(a)	White:
44			
45			i. Titanium Dioxide, ASTM D476, type II shall be 10% minimum.
46			
47			ii. Methacrylate resin shall be 18% minimum.
48		(h)	Vollow and Colores
49 50		(b)	Yellow and Colors:
50 51			i. Titanium Dioxide, ASTM D476, type II shall be 1% minimum. Organic
52			yellow, other colors, and tinting as required to meet color standard.
53			yenow, other colors, and unung as required to meet color standard.
54			ii. Methacrylate resin shall be 18% minimum.
55			n Hiethaelynae feoni onan be 1070 minintarit.
56	(2)	Pro	ohibited materials. The manufacturer shall certify that the product does not contain
57	(-)		rcury, lead, hexavalent chromium, halogenated solvents, nor any carcinogen as
58			fined in 29 CFR 1910.1200 in amounts exceeding permissible limits as specified in
59			evant federal regulations.
60			
61	(3)	Da	ylight directional reflectance:
62			
63		(a)	White: The daylight directional reflectance of the white paint shall not be less than
64			80% (relative to magnesium oxide), when tested in accordance with ASTM E2302.
65			
66		(b)	Yellow: The daylight directional reflectance of the yellow paint shall not be less than
67			55% (relative to magnesium oxide), when tested in accordance with ASTM E2302.
68			The x and y values shall be consistent with the federal Hegman yellow color
69			standard chart for traffic yellow standard 33538, or shall be consistent with the
70			tolerance listed below:
71			
			x .462 x .470 x .479 x .501
70			y .438 y .455 y .428 y .452
72	(4)	1.0	colonated months in a
73 74	(4)	AC	celerated weathering.
74 75		(a)	Sample preparation. Apply the paint at a wet film thickness of 0.013-inch (0.33
76		(a)	mm) to four 3×6 -inch (8×15 cm) aluminum panels prepared as described in
77			ASTM E2302. Air dry the sample 48 hours under standard conditions.
78			To five 12502. The dry the sample to notifs under standard conditions.
79		(b)	Testing conditions. Test in accordance with ASTM G154 using both Ultra Violet
80		(~)	(UV-B) Light and condensate exposure, 72 hours total, alternating four (4) hour UV
81			exposure at 140°F (60°C), and four (4) hours condensate exposure at 104°F (40°C).
82			
83		(c)	Evaluation. Remove the samples and condition for 24 hours under standard
84		. /	conditions. Determine the directional reflectance and color match using the
85			procedures in paragraph 3 above. Evaluate for conformance with the color
86			requirements.
87			

TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
DIVISION 2-AIRFIELD STANDARDS	TAXIWAY EE GRADING, DRAINAGE,
ITEM P-620 RUNWAY AND TAXIWAY MARKING	PAVING, AND LIGHTING
AC 150/5370-10H	CONSTRUCTION CONTRACT NO. 202158849

- Volatile organic content. Determine the volatile organic content in accordance with 40 88 (5) CFR Part 60 Appendix A, Method 24. 89 90 91 Dry opacity. Use ASTM E2302. The wet film thickness shall be 0.015 inch (0.38 mm). (6) The minimum opacity for white and colors shall be 0.92. 92 93 94 (7) Abrasion resistance. Subject the panels prepared in paragraph 620-2.2c(4) to the abrasion 95 test in accordance with ASTM D968, Method A, except that the inside diameter of the 96 metal guide tube shall be from 0.747 to 0.750 inch (18.97 to 19.05 mm). Five liters (17.5 lb (7.94 kg)) of unused sand shall be used for each test panel. The test shall be run on two 97 98 test panels Both baked and weathered paint films shall require not less than 150 liters (525 99 lbs (239 kg) of sand for the removal of the paint films. 100 Hardness, shore. Hardness shall be at least 60 when tested in accordance with ASTM 101 (8) D2240. 102 103 Additional requirements for methacrylate splatter profiled pavement marking. (9) 104 105 Pavement markings of this type shall comply with all above requirements for methacrylate paint, except as noted below: 106 107 The thickness of the marking will be irregular ranging from 0.000 to 0.250 108 (a) inches (0.00 to 6.4 mm), applied in a splatter pattern which comprises a 109 110 minimum of 80% of the visible line (when traveling at 5 mph the line appears to be solid.). 111 112 The hardness shall be 48 Shore D minimum. 113 (b) 115 b. Reflective media. Glass beads for white and yellow paint shall meet the requirements for 116 Federal Specification TT-B-1325D Type I, Gradation A. 117 118 119 Glass beads for red and pink paint shall meet the requirements for Type I, Gradation A. 120 Glass beads shall be treated with all compatible coupling agents recommended by the 121 manufacturers of the paint and reflective media to ensure adhesion and embedment. 122 123 Glass beads shall not be used in black paint. 124 125 126 127 **CONSTRUCTION METHODS** 128 620-3.1 WEATHER LIMITATIONS. Painting shall only be performed when the surface is dry, and the 129 ambient temperature and the pavement surface temperature meet the manufacturer's recommendations in 130 131 accordance with paragraph 620-2.1. Painting operations shall be discontinued when the ambient or surface temperatures does not meet the manufacturer's recommendations. Markings shall not be applied when the 132 133 wind speed exceeds 10 mph unless windscreens are used to shroud the material guns. Markings shall not be applied when weather conditions are forecasts to not be within the manufacturers' recommendations for 134 135 application and dry time.
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TECHNICAL SPECIFICATIONSDENVER INTERNATIONAL AIRPORTDIVISION 2-AIRFIELD STANDARDSTAXIWAY EE GRADING, DRAINAGE,ITEM P-620 RUNWAY AND TAXIWAY MARKINGPAVING, AND LIGHTINGAC 150/5370-10HCONSTRUCTION CONTRACT NO. 202158849

- 620-3.2 EQUIPMENT. Equipment shall include the apparatus necessary to properly clean the existing
 surface, a mechanical marking machine, a bead dispensing machine, and such auxiliary hand-painting
 equipment as may be necessary to satisfactorily complete the job.
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The mechanical marker shall be an atomizing spray-type or airless type marking machine with automatic glass bead dispensers suitable for application of traffic paint. It shall produce an even and uniform film thickness and appearance of both paint and glass beads at the required coverage and shall apply markings of uniform cross-sections and clear-cut edges without running or spattering and without over spray. The marking equipment for both paint and beads shall be calibrated daily.

- 620-3.3 PREPARATION OF SURFACES. Immediately before application of the paint, the surface shall be dry and free from dirt, grease, oil, laitance, or other contaminates that would reduce the bond between the paint and the pavement. Use of any chemicals or impact abrasives during surface preparation shall be approved in advance by the DEN Project Manager. After the cleaning operations, sweeping, blowing, or rinsing with pressurized water shall be performed to ensure the surface is clean and free of grit or other debris left from the cleaning process.
- 154a.Preparation of new pavement surfaces. The area to be painted shall be cleaned by broom,155blower, water blasting, or by other methods approved by the DEN Project Manager to remove156all contaminants, including PCC curing compounds, minimizing damage to the pavement157surface.
- b. Preparation of pavement to remove existing markings. Existing pavement markings shall be
 removed by rotary grinding, water blasting, or by other methods approved by the DEN Project
 Manager minimizing damage to the pavement surface. The removal area may need to be larger
 than the area of the markings to eliminate ghost markings. After removal of markings on asphalt
 pavements, apply a fog seal or seal coat to 'block out' the removal area to eliminate 'ghost'
 markings.
- c. Preparation of pavement markings prior to remarking. Prior to remarking existing
 markings, loose existing markings must be removed minimizing damage to the pavement surface,
 with a method approved by the DEN Project Manager. After removal, the surface shall be
 cleaned of all residue or debris.
- 171Prior to the application of markings, the Contractor shall certify in writing that the surface is dry172and free from dirt, grease, oil, laitance, or other foreign material that would prevent the bond of173the paint to the pavement or existing markings. This certification along with a copy of the paint174manufactures application and surface preparation requirements must be submitted to the DEN175Project Manager prior to the initial application of markings.
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620-3.4 LAYOUT OF MARKINGS. The proposed markings shall be laid out in advance of the paint
 application. The locations of markings to receive glass beads shall be shown on the plans.

620-3.5 APPLICATION. A period of <u>30</u> days shall elapse between placement of surface course or seal coat and application of the permanent paint markings. Paint shall be applied at the locations and to the dimensions and spacing shown on the plans. Paint shall not be applied until the layout and condition of the surface has been approved by the DEN Project Manager.

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- The edges of the markings shall not vary from a straight line more than 1/2 inch (12 mm) in 50 feet (15 m), and marking dimensions and spacing shall be within the following tolerances:

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MARKING DIMENSIONS AND SPACING TOLERANCE

Dimension and Spacing	Tolerance
36 inch (910 mm) or less	$\pm 1/2$ inch (12 mm)
greater than 36 inch to 6 feet (910 mm to 1.85 m)	±1 inch (25 mm)
greater than 6 feet to 60 feet (1.85 m to 18.3 m)	± 2 inch (50 mm)
greater than 60 feet (18.3 m)	±3 inch (76 mm)

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The paint shall be mixed in accordance with the manufacturer's instructions and applied to the pavement 190 with a marking machine at the rate shown in Table 1. The addition of thinner will not be permitted. 191

192 Glass beads shall be distributed upon the marked areas at the locations shown on the plans to receive glass 193 194 beads immediately after application of the paint. A dispenser shall be furnished that is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Glass beads shall be applied at 195 196 the rate shown in Table 1. Glass beads shall not be applied to black paint or green paint. Glass beads shall adhere to the cured paint or all marking operations shall cease until corrections are made. Different bead 197 198 types shall not be mixed. Regular monitoring of glass bead embedment and distribution should be performed. 199

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620-3.6 APPLICATION-PREFORMED THERMOPLASTIC AIRPORT PAVEMENT MARKINGS. Preformed thermoplastic pavement markings not used

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620-3.7 CONTROL STRIP. Prior to the full application of airfield markings, the Contractor shall prepare a 203 204 control strip in the presence of the DEN Project Manager. The Contractor shall demonstrate the surface preparation method and all striping equipment to be used on the project. The marking equipment must 205 achieve the prescribed application rate of paint and population of glass beads (per Table 1) that are properly 206 embedded and evenly distributed across the full width of the marking. Prior to acceptance of the control 207 208 strip, markings must be evaluated during darkness to ensure a uniform appearance.

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210 620-3.8 RETRO-REFLECTANCE. Reflectance shall be measured with a portable retro-reflectometer meeting ASTM E1710 (or equivalent). A total of 6 reading shall be taken over a 6 square foot area with 3 211 212 readings taken from each direction. The average shall be equal to or above the minimum levels of all readings which are within 30% of each other. 213

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MINIMUM RETRO-REFLECTANCE VALUES

Material	Retro-reflectance mcd/m2/lux			
	White	Yellow	Red	
Initial Type I	300	175	35	
Initial Type III	600	300	35	
Initial Thermoplastic	225	100	35	
All materials, remark when less than ¹	100	75	10	

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¹ Prior to remarking determine if removal of contaminants on markings will restore retro-reflectance

620-3.9 PROTECTION AND CLEANUP. After application of the markings, all markings shall be protected from damage until dry. All surfaces shall be protected from excess moisture and/or rain and from disfiguration by spatter, splashes, spillage, or drippings. The Contractor shall remove from the work area all debris, waste, loose reflective media, and by-products generated by the surface preparation and application operations to the satisfaction of the DEN Project Manager. The Contractor shall dispose of these wastes in strict compliance with all applicable state, local, and federal environmental statutes and regulations.

METHOD OF MEASUREMENT

620-4.1 The quantity of markings for pavement markings, waterborne shall be measured by the number of square feet of painting.

620-4.2 The quantity of markings for pavement markings, methacrylate shall be measured by the number ofsquare feet of painting.

234 **620-4.3** The quantity of reflective media shall be paid for by the number of pounds (km) of reflective media.

236 **620-4.4** The quantity of stop signs shall be paid for by the number of stop signs painted.

620-4.5 The quantity of Type I Roadway Delineators shall be paid for by the total number of delineatorsinstalled.

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BASIS OF PAYMENT

620-5.1 This price shall be full compensation for furnishing all materials and for all labor, equipment, tools,
and incidentals necessary to complete the item complete in place and accepted by the DEN Project Manager
in accordance with these specifications.

620-5.2 Payment for markings for pavement markings, waterborne shall be made at the contract price for by
 the number of square feet (square meters) of painting.

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620-5.3 Payment for markings for pavement markings, methacrylate shall be made at the contract price for by
 the number of square feet (square meters) of painting.

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620-5.4 Payment for reflective media shall be made at the contract unit price for the number of pounds (km)
 of reflective media.

620-5.5 Payment for stop signs shall be made at the contract unit price for the total number of stop signs painted. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item complete in place and accepted by the DEN Project Manager in accordance with these specifications.

620-5.6 Payment for Type I Roadway Delineators shall be made at the contract unit price for the total
number of delineators installed. This price shall be full compensation for furnishing all materials and for all
labor, equipment, tools, and incidentals necessary to complete the item complete in place and accepted by the
DEN Project Manager in accordance with these specifications.

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Payment will be made under:

Item P-620a	Pavement Markings, Waterborne - per square foot
Item P-620b	Pavement Markings, Metacrylate - per square foot
Item P-620c	Reflective Media – per pound
Item P-620d	Stop Sign – per each
Item P-620e	Type I Roadway Delineator – per each

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are
referred to within the text by the basic designation only.

283 ASTM International (ASTM)

284		
285	ASTM D476	Standard Classification for Dry Pigmentary Titanium Dioxide Products
286		
287	ASTM D968	Standard Test Methods for Abrasion Resistance of Organic Coatings by
288		Falling Abrasive
289		
290	ASTM D1652	Standard Test Method for Epoxy Content of Epoxy Resins
291		
292	ASTM D2074	Standard Test Method for Total, Primary, Secondary, and Tertiary Amine
293		Values of Fatty Amines by Alternative Indicator Method
294		
295	ASTM D2240	Standard Test Method for Rubber Property - Durometer Hardness
296		
297	ASTM D7585	Standard Practice for Evaluating Retroreflective Pavement Markings Using
298		Portable Hand-Operated Instruments
299		х х
300	ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using
301		the British Pendulum Tester
302		

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDA ITEM P-620 RUNWAY AND TAX AC 150/5370-10H	
ASTM E1710	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2302	Standard Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer
ASTM G154	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
Code of Federal Regulations (CFR)
40 CFR Part 60, App	endix A-7, Method 24 Determination of volatile matter content, water content, density, volume solids, and weight solids of surface coatings
29 CFR Part 1910.120	00 Hazard Communication
Federal Specifications (FED S	PEC)
FED SPEC TT-B-13	25D Beads (Glass Spheres) Retro-Reflective
FED SPEC TT-P-19	52F Paint, Traffic and Airfield Marking, Waterborne
FED STD 595	Colors used in Government Procurement
Commercial Item Description	
A-A-2886B	Paint, Traffic, Solvent Based
Advisory Circulars (AC)	
AC 150/5340-1	Standards for Airport Markings
AC 150/5320-12	<u>Measurement, Construction, and Maintenance of Skid Resistant Airport</u> <u>Pavement Surfaces</u>
	END OF ITEM P-620

ITEM D-70	1 PIPE FOR STORM DRAINS AND CULVERTS
	DESCRIPTION
	ist of the construction of pipe culverts and storm drains in accordance with thes ably close conformity with the lines and grades shown on the plans.
	MATERIALS
nd components used in	the requirements shown on the plans and specified below. Underground pipin drainage systems for terminal and aircraft fueling ramp drainage shall b fuel in accordance with National Fire Protection Association (NFPA) 415.
	hall be of the type called for on the plans or in the proposal and shall be in ng appropriate requirements:
ASTM C76	Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
ASTM C1479	Standard Practice for Installation of Precast Concrete Sewer, Storm Drain and Culvert Pipe Using Standard Installations
ASTM C1840	Standard Practice for Inspection and Acceptance of Installed Reinforced Concrete Culvert, Storm Drain, and Storm Sewer Pipe
ASTM D3034	Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewe Pipe and Fittings
01-2.3 CONCRETE. Cor	ncrete for pipe cradles shall be in accordance with P-610.
C443. Rubber gaskets for P of ASTM F477. Rubber gas equirements of ASTM D	ETS. Rubber gaskets for rigid pipe shall conform to the requirements of ASTM VC pipe, polyethylene, and polypropylene pipe shall conform to the requirement kets for zinc-coated steel pipe and precoated galvanized pipe shall conform to the 1056, for the "RE" closed cell grades. Rubber gaskets for steel reinforced hall conform to the requirements of ASTM F477.
	A. Pipe joint mortar shall consist of one part Portland cement and two parts sand conform to the requirements of ASTM C150, Type I. The sand shall conform to C144.
701-2.6 JOINT FILLERS.	Poured filler for joints shall conform to the requirements of ASTM D6690.
701-2.7 PLASTIC GASKE	TS. Plastic gaskets shall conform to the requirements of ASTM C990.
	LOW-STRENGTH MATERIAL (CLSM). Controlled low-strength materia ments of Item P-153. When CLSM is used, all joints shall have gaskets.

DIVISION	L SPECIFICATIONS 2-AIRFIELD STANDARDS 1 PIPE FOR STORM DRAINS AND CU 0-10H	DENVER INTERNATIONAL AIRPORT TAXIWAY EE GRADING, DRAINAGE, JLVERTS PAVING, AND LIGHTING CONSTRUCTION CONTRACT NO. 202158849
		Manufactured in accordance with and conforming to ASTM
National I		Precast concrete structures shall be furnished by a plant meeting at Certification Program or American Concrete Pipe Association
	CONS	TRUCTION METHODS
the pipe a than the e	nd thorough tamping of the bedd	e pipe trench shall be sufficient to permit satisfactory jointing of ding material under and around the pipe, but it shall not be less s 12 inches (300 mm) on each side. The trench walls shall be
of men a Contractor relating to sufficient t	nd materials during the excava r shall observe that all requirement o excavations, trenching and short to permit satisfactorily jointing of and backfill material around the pip	t federal, state and local rules and regulations governing the safety tion, installation and backfilling operations. Specifically, the ts of the Occupational Safety and Health Administration (OSHA) ring are strictly adhered to. The width of the trench shall be the pipe and thorough compaction of the bedding material under be, but it shall not be greater than the widths shown on the plans
the foundation the top of pipe. The where a fit soil, the un The DEN	ation grade for a depth of at least the pipe (whichever is greater) bu excavation below grade should be irm foundation is not encountered ustable soil shall be removed and r	aterial is encountered, the Contractor shall remove it from below 8 inch (200 mm) or 1/2 inch (12 mm) for each foot of fill over tt for no more than three-quarters of the nominal diameter of the filled with granular material to form a uniform foundation. d at the grade established, due to soft, spongy, or other unstable replaced with approved granular material for the full trench width. e the depth of removal necessary. The granular material shall be the pipe.
	vation for pipes placed in embar to a height above the top of the p	ukment fill shall not be made until the embankment has been bipe as shown on the plans.
work as su		he trench, the contractor shall be responsible for all dewatering s. There will be no additional payment for pumping, dewatering ater.
	EDDING. The bedding surface e pipe throughout its entire length	for the pipe shall provide a foundation of uniform density to
a.	barrel, as required on the plan thickness of at least 6 inches (1 the pipe for a depth of not less	g shall be constructed uniformly for the full length of the pipe ns. Bedding shall be in accordance with Item P-153, having a 50 mm) below the bottom of the pipe and extending up around than 30 percent of the pipe's vertical outside diameter. The layer at least 10 percent of the pipe's vertical diameter. When CLSM is s.
b.	Flexible pipe. For flexible pipe	e, the bedding material shall be in accordance with Item P-153.

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c. **Other pipe materials.** For PVC, polyethylene, polypropylene, or fiberglass pipe, the bedding shall be in accordance with D-705.

105 701-3.3 LAYING PIPE. The pipe laying shall begin at the lowest point of the trench and proceed upgrade. The lower segment of the pipe shall be in contact with the bedding throughout its full length. Bell or groove 106 107 ends of rigid pipes and outside circumferential laps of flexible pipes shall be placed facing upgrade.

108Paved or partially lined pipe shall be placed so that the longitudinal center line of the paved segment coincides with the flow line.

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> Elliptical and elliptically reinforced concrete pipes shall be placed with the manufacturer's reference lines designating the top of the pipe within five degrees of a vertical plane through the longitudinal axis of the pipe.

> 701-3.4 JOINING PIPE. Joints shall be made with (1) cement mortar, (2) cement grout, (3) rubber gaskets, (4) plastic gaskets, (5) coupling bands.

- Mortar joints shall be made with an excess of mortar to form a continuous bead around the outside of the 117 pipe and shall be finished smooth on the inside. Molds or runners shall be used for grouted joints to retain 118 119 the poured grout. Rubber ring gaskets shall be installed to form a flexible watertight seal.
 - **Concrete pipe.** Concrete pipe may be either bell and spigot or tongue and groove. Pipe sections a. at joints shall be fully seated and the inner surfaces flush and even. Concrete pipe joints shall be sealed with butyl mastic meeting ASTM C990 or mortar when soil tight joints are required. Joints shall be thoroughly wetted before applying mortar or grout.
 - b. Metal pipe. Metal pipe shall be firmly joined by form-fitting bands conforming to the requirements of ASTM A760 for steel pipe and AASHTO M196 for aluminum pipe.
- 129 PVC, Polyethylene, or Polypropylene pipe. Joints for PVC, Polyethylene, or Polypropylene c. pipe shall conform to the requirements of ASTM D3212 when leak resistant joints are required. 130 Joints for PVC and Polyethylene pipe shall conform to the requirements of AASHTO M304 131 when soil tight joints are required. Fittings for polyethylene pipe shall conform to the 132 requirements of AASHTO M252 or ASTM M294. Fittings for polypropylene pipe shall conform 133 134 to ASTM F2881, ASTM F2736, or ASTM F2764.
 - d. **Fiberglass pipe.** Joints and fittings shall be as detailed on the plans and in accordance with the manufacturers recommendations.

139 701-3.5 EMBEDMENT AND OVERFILL. Pipes shall be inspected before any fill material is placed; any pipes found to be out of alignment, unduly settled, or damaged shall be removed and re-laid or replaced at 140 141 the Contractor's expense.

143 701-3.5-1 EMBEDMENT MATERIAL REQUIREMENTS

- 145 a. **Concrete Pipe.** Embedment material and compaction requirements shall be in accordance with the applicable Type of Standard Installation (Types 1, 2, 3, or 4) per ASTM C1479. If a concrete 146 cradle or CLSM embedment material is used, it shall conform to the plan details. 147
- 149 b. Plastic and fiberglass Pipe. Embedment material shall meet the requirements of ASTM D3282, A-1, A-2-4, A-2-5, or A-3. Embedment material shall be free of organic material, stones 150

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151 152		larger than 1.5 inches in the greatest dimension, or frozen lumps. Embedment material shall extend to 12 inches above the top of the pipe.		
153				
154	с.	Metal Pipe. Embedment material shall be granular as specified in the contract document and		
155		specifications, and shall be free of organic material, rock fragments larger than 1.5 inches in the		
156		greatest dimension and frozen lumps. As a minimum, backfill materials shall meet the		
157		requirements of ASTM D3282, A-1, A-2, or A-3. Embedment material shall extend to 12 inches		
158		above the top of the pipe.		
159				
160		PLACEMENT OF EMBEDMENT MATERIAL. The embedment material shall be compacted in		
161		exceeding 6 inches (150 mm) on each side of the pipe and shall be brought up one foot (30 cm)		
162	above the	top of the pipe or to natural ground level, whichever is greater. Thoroughly compact the		
163	embedmen	t material under the haunches of the pipe without displacing the pipe. Material shall be brought		
164	up evenly o	on each side of the pipe for the full length of the pipe.		
165				
166	When the t	top of the pipe is above the top of the trench, the embedment material shall be compacted in layers		
167		ing 6 inches (150 mm) and shall be brought up evenly on each side of the pipe to one foot (30 cm)		
168		top of the pipe. All embedment material shall be compacted to a density required under Item P-		
169	152.			
170				
171	Concrete c	radles and flowable fills, such as controlled low strength material (CLSM) or controlled density fill		
172		y be used for embedment provided adequate flotation resistance can be achieved by restraints,		
173	· · ·	or placement technique.		
174	weighnig, c	n placement teeninque.		
175	It shall be	e the Contractor's responsibility to protect installed pipes and culverts from damage due to		
176		on equipment operations. The Contractor shall be responsible for installation of any extra strutting		
170		required to protect pipes from the construction equipment.		
178	Of Dackini	required to protect pipes from the construction equipment.		
179	701_3 6 03	VERFILL. Pipes shall be inspected before any overfill is in place. Any pipes found to be out of		
180	alignment, unduly settled, or damaged shall be removed and relaid or replaced at the Contractor's expense.			
181	Evaluation of any damage to RCP shall be evaluated based on AASHTO R73.			
181	Evaluation of any damage to KCr shan be evaluated based on MISHTO K/J.			
182	Overfill m	aterial shall be place and compacted in layers as required to achieve compaction to at least 95		
185				
	percent standard proctor per ASTM D698. The soil shall contain no debris, organic matter, frozen material, or stones with a diameter greater than one half the thickness of the compacted layers being placed.			
185	of stolles w	with a diameter greater than one han the thickness of the compacted layers being placed.		
186 187	701 2 7 IN	SPECTION REQUIREMENTS. An initial post installation inspection shall be performed by the		
187 199				
188		ect Manager no sooner than 30 days after completion of installation and final backfill. Clean or		
189	nusn all lin	es prior to inspection.		
190	701 2 0 01	ΤΑΙ ΤΎΥ ΛΟΟΙΙΒΑΝΙΟΓ ΙΟΙΙΑΙ ΤΎΥ ΟΟΝΤΌΟΙ		
192	/01-3.8 QU	UALITY ASSURANCE/QUALITY CONTROL		
193				
194	а.	Qualifications.		
195		(1) Bing Manufacturery The Contractor shall submit regificable information of estimation		
196 107		(1) Pipe Manufacturer: The Contractor shall submit verifiable information of satisfactory		
197		manufacturing experience for the past 5 years with design and fabrication of reinforced		
198		concrete pipe of similar size and design.		
199				
200		(2) Installer: Contractor shall submit verifiable information of satisfactory experience in the		
201		installation of reinforced concrete storm sewer pipe of similar size and extent, with a		

202		minimum of 5 years experience.
202		minimum of 5 years experience.
204 205	b.	Testing. All pipe shall be certified by the pipe manufacturer.
206 207 208		(1) Yard testing of Pipe for Certification. Testing shall be performed in accordance with ASTM C 443 on a minimum of two (2) lengths of pipe and one (1) complete joint for every 500 linear feet of pipe, or less.
209 210 211 212 213		(2) Testing of Installed Pipe. ASTM C 1103 shall be followed to field test pipe joints. The test procedure shall be used for joint acceptance of all installed concrete pipe. All field joints shall be tested and certified before backfilling operations are allowed to begin.
213 214 215 216 217		Acceptance testing may involve hazardous materials, operations and equipment. These specifications do not address the safety problems associated with the testing procedures. It is the responsibility of the Contractor to establish appropriate safety and health practices.
217 218 219 220 221		(3) Repair of Joints that Test as Unacceptable. In the event of a reinforced concrete pipe joint failing the in-place pressure test, identified above, the Contractor shall repair the joint by injecting a chemical grout into the joint circumference.
222 223 224 225 226		The chemical grout shall be a non-flammable liquid which, when activated by water, forms a flexible closed-cell polyurethane foam. The chemical grout shall be resistant to petroleum products. The chemical grout shall be DE NEEF® Flex LV PURe or DE NEEF® Flex SLV PURe, as applicable, manufactured by GCP Applied Technologies Inc., Cambridge, MA 02140, or approved equal. Chemical grout shall be prepared, mixed, injected and
227 228 229 230 231		cured in accordance with the manufacturer's recommendations. The equipment used to inject the chemical grout shall be of construction similar to that of the pressure testing equipment. Chemical grout shall be injected into the joint at a minimum 40 psi to insure the grout penetrates through the leak to the outside of the joint.
232 233 234 235 236		After injecting the chemical grout, the injection valves shall be shut off to prevent backflow of the grout. The chemical grout shall have adequate time to cure prior to removal of the injection equipment. The joint shall be retested after repair in accordance with the pressure testing procedure described in these specifications.
237 238 239 240		(4) Gasket Material Test. Gaskets may be exposed to petroleum products. Gasket material shall be certified to have complied with ASTM C 443 and petroleum resistant characteristics of ASTM C 361.
241 242 243		(5) Backfill Tests. Refer to Section P-152 for test and test frequency.
244 245	c.	Submittals. The Contractor shall make the following submittals to the Project Manager for review and approval, or testing, as the case may be:
246 247 248 249 250 251		(1) Pipe Design and Detail Drawings. If the Contractor elects to use an alternate pipe, then the Contractor shall prepare or cause to be prepared, complete design calculations, plans, cross-sections, shop details for all pipe and accessories, and trench shoring/bracing system design for all trenches 20 feet in depth or greater. All final design calculations, plans, and shop drawings shall be sealed by a currently registered Professional Engineer in the State

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252		of	Colorado whose disciplines is in the field of civil or structural engineering.
253 254 255		(2) Qu	alifications. Refer to 701-3.8a.
256 257 258 259		pip sha	pe Certification. The Contractor shall submit the results and certifications for tested be made in the pipe manufacturer's shop (refer to Part 701-3.8a.(1)). The Contractor all further provide certification of each spool piece of pipe as it is delivered to the job e. This certification shall accompany the pipe bill of lading.
260 261 262 263 264 265	d.	tests. A certifying	Eld Joint Test Certification. The Contractor shall maintain records of all pipe joint copy of these test records shall be turned over to the Project Manager with a letter that all joints under construction have been tested in accordance with the specifications seal and integrity.
263 266 267 268 269 270 271	e.	have in p copy of t submit co	unufacturer's QA/QC Program. The manufacturer of reinforced concrete pipe shall place at all times an active Quality Assurance and Quality Control Program. A written his program shall be on file in the manufacturer's shop at all times. The Contractor shall opies of the QA/QC Program to the Project Manager for review and approval prior to of manufacture of pipe.
272 273 274 275	f.	reports f	St Certificates. The pipe manufacturer to retain on file a copy of mill certification or the reinforcing steel and cement used in the manufacture of the concrete pipe. An ate number of copies of said certifications shall be submitted to the Project Manager.
276 277 278 279	g.	rubber ga	sket Certification Test. The Contractor shall selectively test the "O" ring synthetic asket material at an approved independent testing laboratory. Certified results shall be d to the Project Manager for review and approval.
279 280 281 282 283 284 285 286 287 288 289 290	h.	when pla used for manufact for the ex- to reduce installation remove t	on. All pipe shall be inspected at the yard prior to shipment, at the point of receipt and ced in the trench prior to backfilling. The Project Manager shall inspect all pipe to be damage prior to installation. Pipe shall be inspected for damage and compliance to the turer's specifications and Contract Drawings. Units that are damaged shall be evaluated stent of damage. If, in the opinion of the Project Manager, damage is extensive enough e the strength, durability, integrity, or ability to properly function with other parts of an on (i.e. joint damage), the unit shall be rejected and the Contractor shall immediately he unit from the Project site. The Contractor may repair minor damage, if so authorized oject Manager, but at no cost to the City.
291			METHOD OF MEASUREMENT
292 293 294 295 296 297 298 299 300	shall be m face of stru fittings sha	easured alo acture, which Il be includ	Epipe shall be measured in linear feet (m) of pipe in place, completed, and accepted. It ing the centerline of the pipe from end or inside face of structure to the end or inside chever is applicable. Each class, types and size of pipe shall be measured separately. All ed in the footage as typical pipe sections in the pipe being measured. ctions shall be measured by the unit.

301		BASIS OF PAYMENT			
302 303 304 305 306	701-5.1 These prices shall fully compensate the Contractor for furnishing all materials and for all preparation, excavation, and installation of these materials; and for all labor, equipment, tools, and incidentals necessary to complete the item.				
307 308	701-5.2 Payment will be made	at the contract unit price per linear foot (meter) for each class and size of pipe.			
309 310	701-5.3 Payment will be made at the contract unit price per each for flared end sections.				
311312313	Payment will be made under:				
 314 315 316 317 318 319 320 221 	Item D-701a Item D-701b Item D-701c Item D-701d Item D-701e Item D-701f Item D-701g	Install 24" Class V RCP - per linear foot Install 30" Class V RCP - per linear foot Install 36" Class V RCP - per linear foot Install 48" Class V RCP - per linear foot Install 24" FES - per each Install 48" FES - per each Remove 30" RCP - per linear foot			
321 322 323	REFERENCES				
324 325	The publications listed below referred to within the text by the	form a part of this specification to the extent referenced. The publications are ne basic designation only.			
326 327 328	American Association of State	Highway and Transportation Officials (AASHTO)			
329 330 331	AASHTO M167	Standard Specification for Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches			
332 333 334	AASHTO M190	Standard Specification for Bituminous-Coated Corrugated Metal Culvert Pipe and Pipe Arches			
335 336	AASHTO M196	Standard Specification for Corrugated Aluminum Pipe for Sewers and Drains			
337 338 339	AASHTO M219	Standard Specification for Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches			
340 341 342	AASHTO M243	Standard Specification for Field Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches			
343 344	AASHTO M252	Standard Specification for Corrugated Polyethylene Drainage Pipe			
345 346 347	AASHTO M294	Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter			
348 349 350	AASHTO M304	Standard Specification for Poly (Vinyl Chloride) (PVC) Profile Wall Drain Pipe and Fittings Based on Controlled Inside Diameter			

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM D-701 PIPE FOR STORM DRAINS AND CULVERTS AC 150/5370-10H		DENVER INTERNATIONAL AIRPO TAXIWAY EE GRADING, DRAINA PAVING, AND LIGHTI CONSTRUCTION CONTRACT NO. 202158	
AASHTO N	IP20 Standard Specification for 300- to 900-mm (12- to 36	Steel Reinforced Polyethylene (PE) Ribbed P. -in.) Diameter	
ASTM International	(ASTM)		
ASTM A760	Standard Specification fo Sewers and Drains	or Corrugated Steel Pipe, Metallic Coated	
ASTM A76	Standard Specification for for Field-Bolted Pipe, Pipe	Corrugated Steel Structural Plate, Zinc Coare-Arches, and Arches	
ASTM A762	Standard Specification for Sewers and Drains	r Corrugated Steel Pipe, Polymer Precoated	
ASTM A84	Standard Specification for Corrugated Steel Sewer and	Post-Applied Coatings, Pavings, and Linings d Drainage Pipe	
ASTM B745	Standard Specification fo Drains	r Corrugated Aluminum Pipe for Sewers	
ASTM C14	Standard Specification for and Culvert Pipe	r Nonreinforced Concrete Sewer, Storm Dr	
ASTM C76	Standard Specification for Sewer Pipe	Reinforced Concrete Culvert, Storm Drain,	
ASTM C94	Standard Specification for	Ready Mixed Concrete	
ASTM C144	Standard Specification for	Aggregate for Masonry Mortar	
ASTM C150	Standard Specification for	Portland Cement	
ASTM C443	Standard Specification for Rubber Gaskets	Joints for Concrete Pipe and Manholes, Us	
ASTM C500	Standard Specification for and Sewer Pipe	Reinforced Concrete Arch Culvert, Storm Dr	
ASTM C50'	Standard Specification for Drain and Sewer Pipe	r Reinforced Concrete Elliptical Culvert, Sto	
ASTM C65	Standard Specification for Drain and Sewer Pipe	r Reinforced Concrete D-Load Culvert, Sto	
ASTM C990	1	Joints for Concrete Pipe, Manholes, and Pre- med Flexible Joint Sealants	
ASTM C143	3 Standard Specification for Sections for Culverts, Store	r Precast Reinforced Concrete Monolithic I m Drains, and Sewers	

	TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDAI ITEM D-701 PIPE FOR STORM DI AC 150/5370-10H	
401 402	ASTM D1056	Standard Specification for Flexible Cellular Materials Sponge or Expanded Rubber
403 404 405	ASTM D3034	Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
406 407 408	ASTM D3212	Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
409 410 411	ASTM D3262	Standard Specification for "Fiberglass" (Glass-Fiber Reinforced Thermosetting Resin) Sewer Pipe
412 413 414	ASTM D3282	Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
415 416 417	ASTM D4161	Standard Specification for "Fiberglass" (Glass-Fiber Reinforced Thermosetting Resin) Pipe Joints Using Flexible Elastomeric Seals
418 419 420	ASTM D6690	Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements
421 422 423	ASTM F477	Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
424 425 426	ASTM F667	Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings
427 428 429	ASTM F714	Standard Specification for Polyethylene (PE) Plastic Pipe (DR PR) Based on Outside Diameter
430 431 432	ASTM F794	Standard Specification for Poly (Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe & Fittings Based on Controlled Inside Diameter
433 434 435 436	ASTM F894	Standard Specification for Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe
437 438 439	ASTM F949	Standard Specification for Poly (Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings
440 441	ASTM F2435	Standard Specification for Steel Reinforced Polyethylene (PE) Corrugated Pipe
442 443 444	ASTM F2562	Specification for Steel Reinforced Thermoplastic Ribbed Pipe and Fittings for Non-Pressure Drainage and Sewerage
445 446 447 448	ASTM F2736	Standard Specification for 6 to 30 in. (152 to 762 mm) Polypropylene (PP) Corrugated Single Wall Pipe and Double Wall Pipe

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ASTM F2764	Standard Specification for 30 to 60 in. (750 to 1500 mm) Polypropylene (PP) Triple Wall Pipe and Fittings for Non-Pressure Sanitary Sewer Applications
ASTM F2881	Standard Specification for 12 to 60 in. (300 to 1500 mm) Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications
National Fire Protection Association (NFPA)	
NFPA 415	Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and
	Loading Walkways
	0 .
	END ITEM D-701

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TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM D-710 ROCK RIPRAP

ITEM D-710 ROCK RIPRAP DESCRIPTION 710-2.1 This item shall consist of furnishing and placing of rock riprap as shown on the plans and called for in these specifications. Placing of riprap will include all bedding, fabric (if applicable), grout, and stones as indicated on the plans or as directed by the DEN Project Manager. MATERIALS 710-3.1 STONE. All stone for rock riprap shall be sound, durable, and free from seams, cracks, and other defects and shall be as nearly rectangular as practicable. The stone shall have a specific gravity of at least 2.5. Broken concrete pieces obtained from the project may be used providing they meet the requirements contained herein. Classification and Gradation of Riprap: a. (1) Type "M". Maximum size for Type "M" shall be 1 cubic foot with the maximum dimension 21 inches. Minimum dimension shall be 4 inches. The stone shall be well graded between 4 inches and 21 inches. Gradation shall meet the requirements of Table 1 below. Type "VH". Maximum size for Type "VH" shall be 8 cubic feet with the maximum (2) dimension 42 inches. Minimum dimension shall be 9 inches. The stone shall be well graded between 9 inches and 42 inches. Gradation shall meet the requirements of Table 1 below. Table 1.

Riprap Designation	% Smaller Than Given Size By Weight	Intermediate Rock Dimension Inches	d ₅₀ * inches
	70-100	21	
Туре М	50-70	18	12
	35-50	12	
	2-10	4	
Type VH	100	42	
	50-70	33	24
	35-50	24	24
	2-10	9	
*d50 = Mean particle size		· · ·	

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Broken concrete pieces may be used in lieu of natural rock provided the dimensional requirements above are met, the pieces are sound and durable, and the material is approved by the DEN Project Manager prior to placing.

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The nominal thickness of the completed riprap section, regardless of the type specified, shall be 1.5 times the mean diameter of the rock specified in Tables 1, 2, 3 and/or 4 of this specification.

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40 **710-3.2 BEDDING MATERIAL.** The free draining material shall consist of a Colorado Department of

41 Transportation (CDOT) Specification; Class B or Class C filter material, reference Table 5 below. Type L

- 42 riprap shall use CDOT Class A bedding material, referenced in Table 5 below.
- 43 44

Table 5. Gradation Specifications for Filter Material

	Mass Pere	cent Passing square M	esh Sieves
Sieve Size	Class A	Class B	Class C
3"	100		
1 1/2"		100	
3/4"	20-90		100
No. 4	0-20	20-60	60-100
No.16		10-30	
No. 50		0-10	10-30
No. 100			0-10
No. 200	0-3	0-3	0-3

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710-3.3 FILTER FABRIC. The filter fabric material to be placed under the non-grouted rock riprap
 shall be a non-woven polypropylene fabric having the following properties:

a.	Weight	8 ounces/square yard
b.	Tensile strength, wet	Warp direction – 200 pounds
с.	Fill direction	275 pounds
d.	Mullen Burst (ASTM D 751)	400 psi
e.	Elongation-at-break	75 percent

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710-3.4 CEMENT GROUT. Grout shall be composed of 560 pounds cement per cubic yard conforming to the requirements of ASTM C 150 Type I/II, 70 percent fine aggregate conforming to the requirements of ASTM C 33, and 30 percent No. 8 coarse aggregate conforming to the requirements of ASTM C 33, Class 4S.

The grout shall have an air content of 6 - 9% when tested in accordance with ASTM C 231, a slump of 5 - 9 inches when tested in accordance with ASTM C 143, and a minimum 28-day compressive strength of 2000 psi when sampled in accordance with ASTM C 31 and tested in accordance with ASTM C 39.

710-3.5 TESTING LABORATORY. The laboratory used to develop the grout mix design shall meet the requirements of ASTM C 1077 including accreditation. Accreditation shall include all test procedures required to develop the mix design. A certification signed by the manager of the laboratory stating it meets these requirements shall be submitted to the DEN Project Manager. The certification shall contain as a minimum:

- **a.** Qualifications of personnel; including the laboratory manager, supervising technician, and testing technicians involved in developing the mix design.
- b. Evidence of accreditation by a nationally recognized laboratory accreditation organization for
 all test methods used in developing the mix design.

TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
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ITEM D-710 ROCK RIPRAP	PAVING, AND LIGHTING
	CONSTRUCTION CONTRACT NO. 202158849

710-3.6 SUBMITTALS. Contractor shall submit certification that the product delivered to the project 80 81 site will have values equal to or greater than those specified above. 82 a. Stone - Certification of Compliance detailing gradation and specific gravity. 83 84 Bedding Material - Certification of Compliance showing gradation. b. 85 86 Filter Fabric - Certification of Compliance. 87 c. 88 d. 89 Grout – The Contractor shall submit a mix design including all proposed materials to the DEN Project Manager for the Grout at least thirty (30) days prior to use. The mix design and 90 materials will not be approved when the laboratory trial mix is older than two (2) years and 91 the Certificates of Compliance for the materials are the results from tests performed more 92 than one (1) year in the past. 93 94 95 **CONSTRUCTION METHODS** 96 97 98 710-4.1 EXCAVATION. The slopes shall be finished to a reasonably smooth and compact surface within 2 inches of the lines, surfaces, and elevations shown on the plans. 99 100 710-4.2 ROCK RIPRAP. The filter fabric shall be spread on the prepared subgrade to provide a 101 102 continuous, smooth, surface. After placing bedding material, the stone shall be spread on the filter fabric so as to produce a compact, well graded mass of minimum voids. Spreading shall be done so as to cause 103 104 as little disturbance to the filter fabric as possible. Some rearranging of individual pieces may be required, either by hand or equipment, to obtain a reasonably uniform surface. 105 106 **710-4.3 GROUTED RIPRAP.** When grouted riprap is specified, the stone shall be laid as set forth above 107 108 for rock riprap, except that filter fabric is not required. The spaces between the stones shall then be filled 109 with grout. Sufficient grout shall be used to completely fill all voids, except that the face surface of the stone shall be left exposed. After grouting is completed, the surface shall be cured for a period of at least 110 three days. 111 112 113 **710-4.4 BATCH TICKETS.** A sample copy of the proposed batch ticket shall be submitted to the DEN Project Manager for approval. Two copies of the batch ticket shall also be provided to the DEN Project 114 Manager or his representative for each batch of concrete prior to unloading at the site. Grout delivered 115 without a batch ticket containing complete information as specified shall be rejected. The Contractor shall 116 collect and complete the batch ticket at the placement site and deliver all batch tickets to the DEN Project 117 118 Manager's representative on a daily basis. The DEN Project Manager shall have access to the batch tickets at any time during the placement. The following information shall be provided on each batch ticket: 119 120 Supplier's name and date 121 a. 122 123 b. Truck number 124 Project number and location 125 c. 126 d. Cubic yards batched 127 128 Time batched 129 e. 130 131 f. Mix design number

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM D-710 ROCK RIPRAP

g.	Type, brand, and amount of each admixture
h.	Type, brand, and amount of cement
i.	Weights of fine and coarse aggregate
j.	Moisture of fine and coarse aggregate
k.	Gallons of batch water (including ice)
1.	Water cement ration
m.	Amount of water that can be added to the load prior to placement
The Contr	actor shall add the following information to the batch ticket at the placement site:
n.	Gallons of water added by truck operator plus quantity of concrete in each truck each time water is added.
0.	Number of revolutions of drum at mixing speed (for truck mixed concrete)
р.	Discharge time
q.	Location of batch in placement.
use. Grou Project Ma shall be he Contractor during plac If the slum	IXING CONDITIONS. The grout shall be mixed only in quantities required for immediate t shall not be mixed while the air temperature is below 40°F without permission of the DEN nager. If permission is granted for mixing under such conditions, aggregates or water, or both, ated and the grout shall be placed at a temperature not less than 50°F nor more than 90°F. The shall be held responsible for any defective work, resulting from freezing or injury in any manner ting and curing, and shall replace such work at his/her expense.
Additional adjustment not be exc	rior to placement at the approval of the Contractor's Superintendent or authorized agent. mixing shall be required as specified in ASTM C 94. Once placement has begun, no further shall be made. When additional water is added to the load the design water cement ratio shall eeded. The amount of water that can be added to the load shall also be included on the batch empering of grout by adding water or any other material shall not be permitted.
	ry of grout to the job shall be in such a manner that batches of grout will be deposited at ted intervals after placement has begun.
compressiv accordance C 31 and to at least two every fifty at the proj	CCEPTANCE SAMPLING AND TESTING. Grout will be accepted on the basis of the re strength specified in paragraph 2.4. The grout shall be sampled at the point of placement in e with ASTM C 172. Concrete cylindrical test specimens shall be made in accordance with ASTM ested in accordance with ASTM C 39. Concrete strengths for acceptance shall be the average of 6 by 12 in. or at least three 4 by 8 in. cylinders tested at 28 days. The grout shall be sampled cubic yards, or fraction thereof, per day. The contractor shall provide a suitable area or container ect site for initial storage and curing (up to the first 48 hours after molding) of specimens cast ince purposes. The container shall be capable of maintaining a temperature range of 60 to 80°F.

	TECHNICAL SPECIFICATIONS DENVER INTERNATIONAL AIRPORT
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	CONSTRUCTION CONTRACT NO. 202158849
33 34 35	The DEN Project Manager's Quality Assurance Laboratory will make the actual tests on the specimens at no expense to the Contractor.
36	
37 38	METHOD OF MEASUREMENT
39 00 01 02	710-5.1 Type "M" rock riprap grouted shall be measured by the cubic yard, to the dimensions of the riprap as shown on the plans or as directed by the DEN Project Manager. Excavation, bedding, geotextile fabric, and grout are included in the contract unit price for Type "M" riprap and no separate measurement of payment will be made for them.
93	
94 95 96 97	710-5.2 Type "H" rock riprap grouted Removal and Stockpiling of Existing Type "VH" riprap shall be measured by the cubic yard, to the dimensions of the riprap as shown on the plans or as directed by the DEN Project Manager. Excavation, bedding, geotextile fabric, and grout are included in the contract unit price for Type "H" Remove and Stockpile Existing Type "VH" riprap and no separate measurement of
98	payment will be made for them.
99	
00	710-5.3 Grouted Type "VH" Riprap (From On-site Stockpile) shall be measured by the cubic yard, to the
)1	dimensions of the riprap as shown on the plans or as directed by the DEN Project Manager. Excavation,
)2)3	bedding, geotextile fabric, and grout are included in the contract unit price for Grouted Type "VH" Riprap (From On-site Stockpile) and no separate measurement of payment will be made for them.
)3)4	(From On-site Stockpile) and no separate measurement of payment will be made for them.
)5	710-5.4 Grouted Type "VH" Riprap (New) shall be measured by the cubic yard, to the dimensions of the
)6)7	riprap as shown on the plans or as directed by the DEN Project Manager. Excavation, bedding, geotextile fabric, and grout are included in the contract unit price for Grouted Type "VH" Riprap (New) and no
)8)9	separate measurement of payment will be made for them.
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11	BASIS OF PAYMENT
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13 14 15	710-6.1 The accepted quantity of Type "M" rock riprap grouted will be paid for at the contract unit price per cubic yard. The price shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item.
16	
17	710-6.2 The accepted quantity of Type "H" rock riprap grouted Remove and Stockpile Existing Type
18	"VH" will be paid for at the contract unit price per cubic yard. The price shall be full compensation for
19 20	furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete
20 21	the work prescribed in this item.
22	710-6.3 The accepted quantity of Grouted Type "VH" Riprap (From On-site Stockpile) will be paid for at
23	the contract unit price per cubic yard. The price shall be full compensation for furnishing and placing all
24	material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in
25	this item.
26	
.7	710-6.4 The accepted quantity of Grouted Type "VH" Riprap (New) will be paid for at the contract unit
8	price per cubic yard. The price shall be full compensation for furnishing and placing all material and for
9	all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item.
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TECHNICAL SPECIFICATIONS	
DIVISION 2-AIRFIELD STANDARDS	
ITEM D-710 ROCK RIPRAP	

232	Payment will be made u	inder:
233	Item D 710-	Constant Trans (1) (2) Disease Dev Cabis Vand
234 235	Item D-710a Item D-710b	Grouted Type "M" Riprap – Per Cubic Yard ————————————————————————————————————
235	Item D-710b	Remove and Stockpile Existing Type "VH" Riprap – Per Cubic Yard
237	Item D-710c	Grouted Type "VH" Riprap (From On-Site Stockpile) – Per Cubic Yard
238	Item D-710d	Grouted Type "VH" Riprap (New) – Per Cubic Yard
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240		
241		TESTING REQUIREMENTS
242		
243	ASTM C 31	Making and Curing Test Specimens in the Field
244		
245	ASTM C 39	Compressive Strength of Cylindrical Concrete Specimens
246	A STIM C 129	Unit Weight Vield and Air Content of Congress
247 248	ASTM C 138	Unit Weight, Yield, and Air Content of Concrete
248 249	ASTM C 143	Slump of Hydraulic Cement Concrete
250	101010115	Shamp of Hydraule Gement Gonerete
251	ASTM C 172	Practice for Sampling Freshly Mixed Concrete.
252		
253	ASTM C 231	Air Content of Freshly Mixed Concrete by the Pressure Method
254		
255		
256		MATERIAL REQUIREMENTS
257		
258	ASTM C 33	Concrete Aggregates
259		
260	ASTM C 94	Ready Mixed Concrete
261 262	ASTM C 150	Portland Cement
262	101W C 150	I offiand Centent
264	ASTM C 260	Air Entraining Admixtures for Concrete
265		
266	ASTM D 751	Coated Fabric
267		
268		
269		**END OF ITEM D-710**
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TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM L-160 TEMPORARY GENERATORS

ITEM L-160 TEMPORARY GENERATORS

DESCRIPTION

6 160-1.1 This item shall consist of furnishing, connecting, and operating temporary generators to provide power 7 to the equipment specified in the plans. Temporary generators may be used as the prime power source for 8 FAA navaids or other equipment on the airfield or may be used as a backup/standby power source in the event 9 of a utility power outage. Equipment shall be installed in accordance with the details in the plans, this 10 specification, and any referenced specifications or standards. The equipment shall be installed at the locations 11 and in accordance with the dimensions, layout, design, and details shown in the plans. This item shall include 12 furnishing and installing all equipment, wiring, circuit breakers, cable, conduit, grounding systems, cable 13 connections, testing of the installation, and all incidentals and appurtenances necessary to place the systems in 14 operation as completed units to the satisfaction of the DEN Project Manager.

EQUIPMENT AND MATERIALS

160-2.1 GENERAL.

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- **a.** All equipment and materials covered by referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when requested by the DEN Project Manager.
- **b.** Manufacturer's certifications shall not relieve the Contractor of the responsibility to provide materials per these specifications. Materials supplied and/or installed that do not comply with these specifications shall be removed (when directed by the DEN Project Manager) and replaced with materials that comply with these specifications at the Contractor's cost.
- 30 All materials and equipment used to construct this item shall be submitted to the DEN Project c. 31 Manager for approval prior to ordering the equipment. Submittals consisting of marked catalog 32 sheets or shop drawings shall be provided. Submittal data shall be presented in a clear, precise and 33 thorough manner. Original catalog sheets are preferred. Photocopies are acceptable provided they 34 are as good a quality as the original. Clearly and boldly mark each copy to identify products or 35 models applicable to this project. Indicate all optional equipment and delete any non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment 36 37 to which they apply on each submittal sheet. Markings shall be made bold and clear with arrows 38 or circles (highlighting is not acceptable). The Contractor is solely responsible for delays in the project that may accrue directly or indirectly from late submissions or resubmissions of submittals. 39
- d. The data submitted shall be sufficient, in the opinion of the DEN Project Manager, to determine
 compliance with the plans and specifications. The Contractor's submittals shall be provided in
 electronic pdf format, tabbed by specification section. The DEN Project Manager reserves the
 right to reject any and all equipment, materials or procedures that do not meet the system design
 and the standards and codes, specified in this document.

47 160-2.2 GENERATORS. Generators shall be supplied in the sizes, output voltage, and configurations 48 specified. All generators shall be powered by diesel engines and shall be rated for continuous operation at their 49 rated output power. Generators are to be furnished on a temporary basis and shall be on site for the duration 50 of elements of work or event specified in the plans. Generators shall be removed from the project site at the TECHNICAL SPECIFICATIONSDENVER INTERNATIONAL AIRPORTDIVISION 2-AIRFIELD STANDARDSTAXIWAY EE GRADING, DRAINAGE,ITEM L-160 TEMPORARY GENERATORSPAVING, AND LIGHTINGCONSTRUCTION CONTRACT NO. 202158849

51 completion of the elements of work or events specified. Generators and associated equipment will remain the 52 contractor's property and will not be turned over to DEN or the FAA. Except where specifically called out, 53 new generators and associated equipment are not required. Generators and associated equipment may be used 54 or rented from an equipment rental agency.

INSTALLATION

59 160-3.1 Standby Power Generators. Prior to the start of work elements specified in the plans, the contractor 60 shall stage generators at the locations shown. All materials, including wire, cables, connectors, circuit breakers, 61 disconnect switches, etc. required for a complete installation shall be onsite at the contractor's yard or staged 62 at the facility location. In the event of a power outage, the contractor shall be prepared to connect and operate 63 the generator as quickly as possible. The contractor shall have electricians on call 24 hours per day during the 64 specified work elements prepared to respond to a power outage. Generators shall be rated for continuous 65 operation at their rated output power. In the event of an outage, the contractor shall connect the generator to provide power to the facility per the details in the plans. The generator shall be operated for the duration of 66 67 the outage. The contractor shall provide all fuel and maintenance required to operate the generator for the 68 duration of the outage. Install equipment and provide locks as required to ensure that electricity can not be 69 backfed from generator to utility transformer.

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160-3.2 Prime Power Generators. At locations where commercial utility power to a facility is scheduled to be disrupted, the contractor shall furnish and connect a generator per the details in the plans. The generator shall be operated as the primary power source for the facility for the duration of the outage. The contractor shall provide all materials, including wire, cables, connectors, circuit breakers, disconnect switches, etc. shown on the plans and required for a complete installation. Generators shall be rated for continuous operation at their rated output power. The contractor shall provide all fuel and maintenance required to operate the generator for the duration of the outage.

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160-3.3 Installation of Generator Inlets. Where shown on the plans, the contractor shall install a pin and sleeve power inlet and a double throw disconnect switch to allow for connection to a generator in the event of an outage of utility power. The inlet, double throw switch, conduit, conductors, etc. shall be of the types and sizes shown on the drawings. The installation shall meet the requirements of the National Electrical Code. Generator inlet and all associate materials and equipment shall be new.

METHOD OF MEASUREMENT

160-4.1 The quantity of generators to be furnished under this item will be the number of each size and configuration as specified. This item shall include furnishing all ancillary materials and parts, including, but not limited to, cables, switches, circuit breakers, connectors, and fittings required for a complete installation. This item includes furnishing, delivery, and removal of equipment only. Connection of generator to existing facilities will be paid under a separate item. Operation and maintenance of generators will also be paid under a separate item.

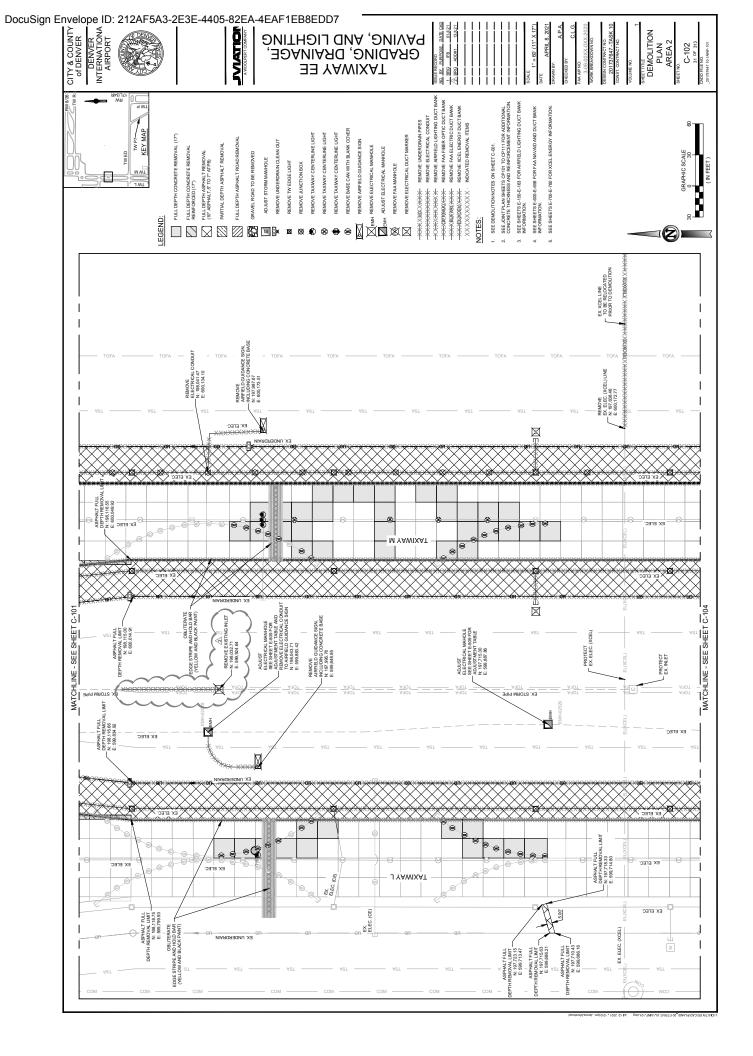
160-4.2 The quantity generators to be connected under this item will be the number of each generator size and configuration connected so that it can provide power to an airport facility. This item shall include all labor and tools required to make generators operational to provide power to an airport facility. This item will only be paid if there is a power outage, and the contractor is directed to connect a generator. If a generator is not connected and used to supply power to a facility, no payment will be made under this item.

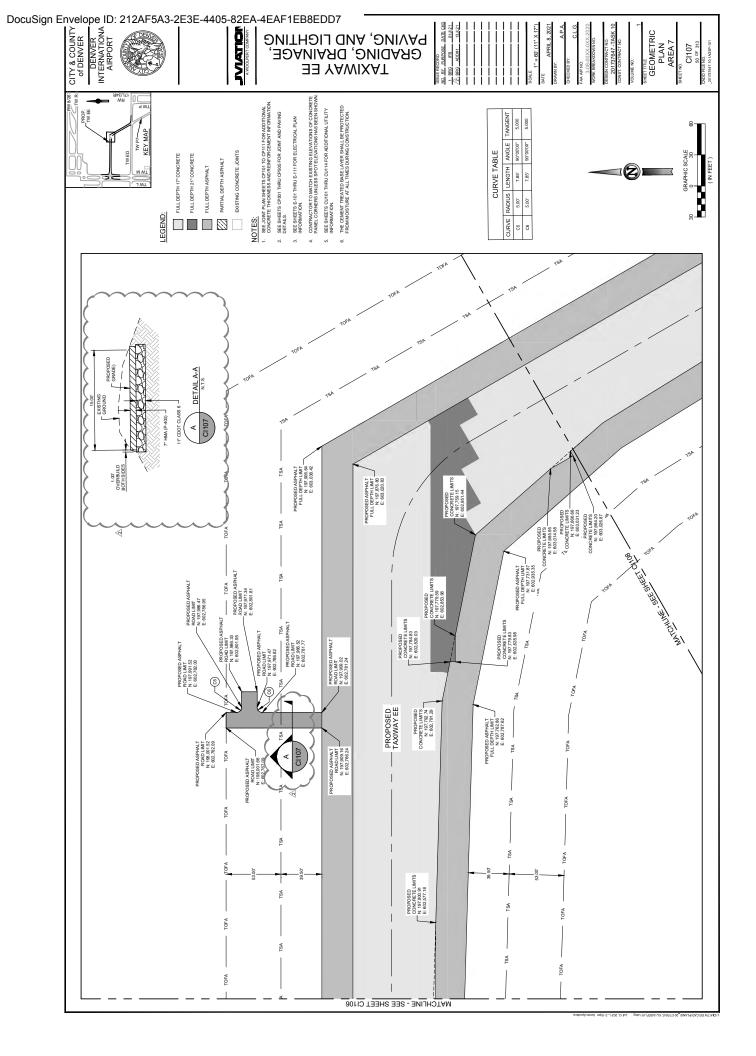
TECHNICAL SPECIFICATIONS DENVER INTERNATIONAL AIRPORT DIVISION 2-AIRFIELD STANDARDS TAXIWAY EE GRADING, DRAINAGE, ITEM L-160 TEMPORARY GENERATORS PAVING, AND LIGHTING CONSTRUCTION CONTRACT NO. 202158849 101 160-4.3 The quantity of generators to be operated under this item will be the number of per day (24 hours per day) each size of generator is in use to supply power to a facility. This item will be paid to the nearest 1/4 of a 102 day. This item shall include all maintenance and fuel required to keep the generator operational. The contractor 103 104 shall supply as required to keep generators running continually when needed. If a generator is not used to 105 supply power to a facility, no payment will be made under this item. 106 107 **BASIS OF PAYMENT** 108 109 110 160-5.1 Payment will be made at the contract unit price for each generator furnished, connected, or operated or each pin and sleeve inlet installed. This price shall be full compensation for furnishing all materials and for 111 112 all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item. 113 114 115 116 Payment will be made under: 117 118 Item L-160a Furnish 250kW Generator for 35L ALSFII/17R LOC Temp Power (208Y/120V, 3-phase) - per each 119 120 Item L-160b Connect 250kW Generator for 35L ALSFII/17R LOC Temp Power - per 121 each 122 Item L-160c Operate 250kW Generator – per day Furnish 50kW Generator for RTR-A Temp Power (208Y/120V, 3-phase) -123 Item L-160d per each 124 125 Furnish 50kW Generator for RTR-B Temp Power (208Y/120V, 3-phase) -Item L-160e 126 per each 127 Item L-160f Furnish 50kW Generator for ASDE Temp Power (208Y/120V, 3-phase) -128 per each 129 Furnish 50kW Generator for 17R MALSR/35L LOC Temp Power Item L-160g 130 (120/240V, 1-phase) - per eachInstall 100A Power Inlet at RTR-A or RTR-B – per each 131 Item L-160h Item L-160i Connect 50kW Generator for ASDE Temp Power - per each 132 133 Item L-160j Connect 50kW Generator for 17R MALSR/35L LOC Temp Power - per 134 each 135 Item L-160k Operate 50kW Generator – per day Item L-160l Furnish 30kW Generator for 17R GS or 35L GS Temp Power (120/240V, 136 137 1-phase) - per each Item L-160m Furnish 30kW Generator for DEN VOR Temp Power (120/240V, 1-phase) 138 139 - per each 140 Item L-160n Connect 30kW Generator for 17R GS or 35L GS Temp Power – per each Item L-160o Connect 30kW Generator for DEN VOR Temp Power - per each 141 142 Item L-160p Operate 30kW Generator – per day Furnish 15kW Generator for RTR-E Temp Power (120/240V, 1-phase) -143 Item L-160q per each 144 145 Item L-160r Operate 15kW Generator for RTR-E Temp Power - per each Item L-160s Furnish 10kW Generator for Midfield RVR Temp Power (120/240V, 1-146 phase) – per each 147 Connect 10kW Generator for Midfield RVR Temp Power - per each 148 Item L-160t 149 Item L-160u Operate 10kW Generator - per day 150 Item L-160v Furnish 5kW Generator for ASOS Temp Power (240V, 1-phase) - per each

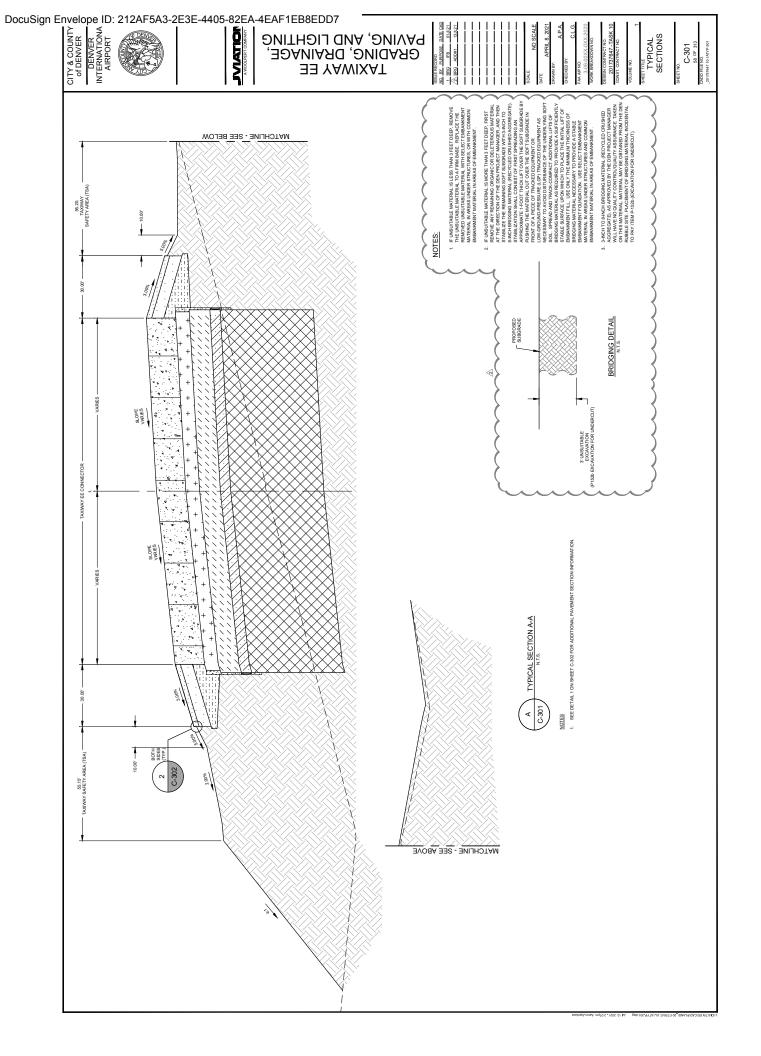
	TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDAI ITEM L-160 TEMPORARY GENEI	
151	Item L-160w	Connect 5kW Generator for ASOS Temp Power – per each
152	Item L-160x	Operate 5kW Generator – per day
153 154	Item L-160y	Furnish 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power (120V, 1-phase) – per each
155 156	Item L-160z	Connect 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power – per each
157 158	Item L-160aa	Operate 1.8kW Generator – per day
159 160		REFERENCES
161		
162	Commercial Item Description	(CID)
163		
164	A-A 59544	Cable and Wire, Electrical (Power, Fixed Installation)
165		Institute of Electrical and Electronic Engineers (IEEE)
166 167	Underwriters Laboratories (UL	
168	X	
169	UL Standard 6	Electrical Rigid Metal Conduit – Steel
170		
171	UL Standard 514B	Conduit, Tubing, and Cable Fittings
172 173	UL Standard 514C	Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers
175	OL Standard 514C	Nonmetanic Outlet Boxes, Flush-Device Boxes, and Covers
175	UL Standard 651	Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings
176		
177	UL Standard 651A	Type EB and A Rigid PVC Conduit and HDPE Conduit
178		
179	National Fire Protection Assoc	iation (NFPA)
180	NIEDA ZO	
181 182	NFPA-70	National Electrical Code (NEC)
182	NFPA-70E	Standard for Electrical Safety in the Workplace
185	1111111-7012	Standard for Electrical Safety in the workplace
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186		**END OF ITEM L-160**

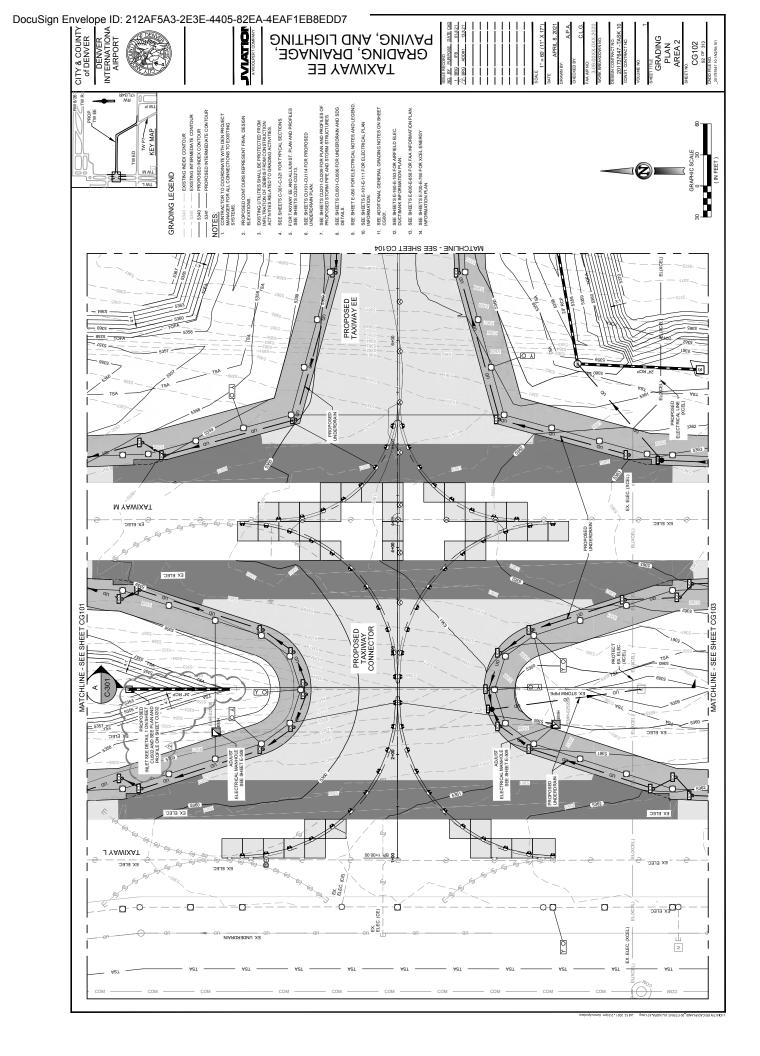
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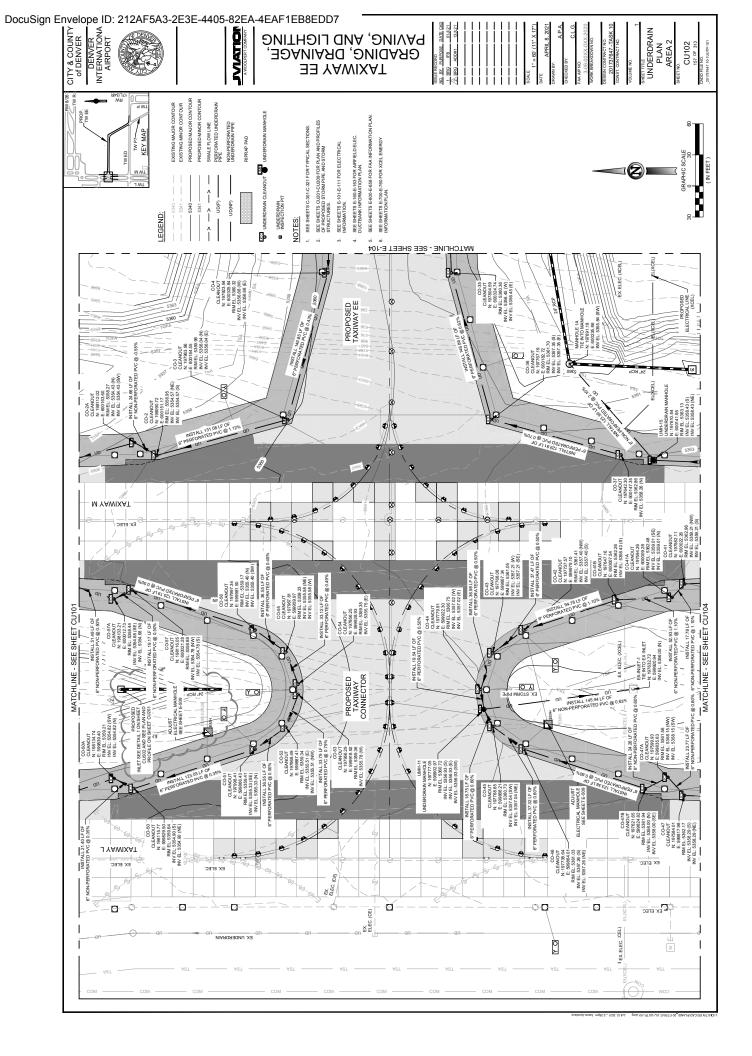
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	SUMMARY OF APPROXIMATE QUANTITIES	ITEM DESORIPTION		VERATOR FOR \$5L ALSHIT/TR LOC TEMP POWER (2087/1/20V, 5-PRASE)	ENERALOR FOR 35LALSPINT /K LOC LEMP POWER	IEREATO E FAD DE A TEMP DAMED JAAVIANI A DUADEL	ENERVION FOR NITAN LENE FONED (2007/2017/97/97)	GENERATOR FOR KIR-BILBAR FOWER (2087/200, 34768E)		GENERATOR FOR T/K MALSKISSL LOC I EMP FOWER (120/240V, 14-HASE)	OWER MLE I AL IN INA UN KIN-B U JERKENTYDE FOD AGNE TEAB DAWED	V GENERATOR FOR 17R MALSR381. LOC TEMP POWER	M GENERATOR	W GENERATOR FOR 17R GS OR 35L GS TEMP POWER (120/240V, 1-PHASE)	W GENERATOR FOR DEN VOR TEMP POWER (120/240V, 1-PHASE)	W GENERATOR FOR 17R GS OR 39L GS TEMP POWER	KW GENERATOR FOR DEN VOR TEMP POWER	KW GENERATOR	5KW GENERATOR FOR RTR-E TEMP POWER (120/240V, 1-PHASE)	15KW GENERATOR FOR RTR-E TEMP POWER	10KW GENERATOR FOR MIDFIELD RVR TEMP POWER (120/240V, 1-PHASE)	T 10KW GENERATOR FOR MIDFIELD RVR TEMP POWER	FIORW GENERATOR	ISKW GENERATOR FOR ASOS TEMP POWER (240V, 1-PHASE)	T 5KW GENERATOR FOR ASOS TEMP POWER	E SKW GENERATOR 1. sour centerator con liture 14 teur poure 17 teur poure 14000 1 allaces	11.8KW GENERATOR FOR LLWAS 14 OR LLWAS 17 TEMP POWER (120V, 1+7HASE)	i 1 JKW GENERATOR FORLLWAS 14 OR LLWAS 17 TEMP POWER	LIGHT VERENVIUN ODIFICATIONS	

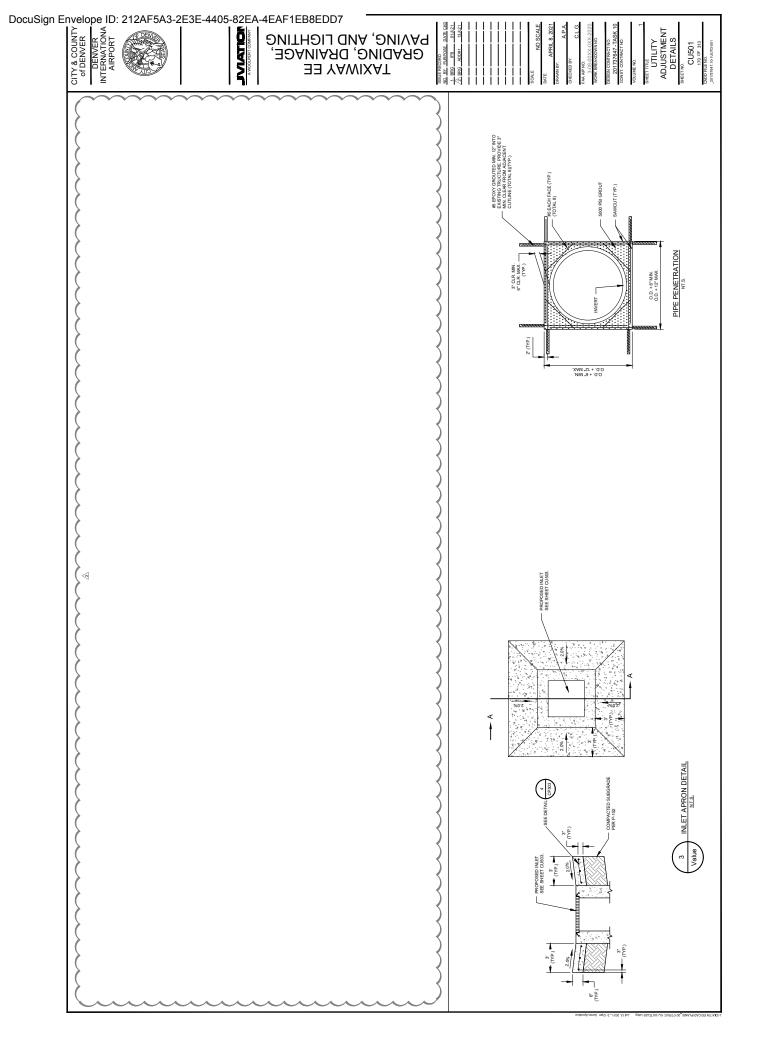


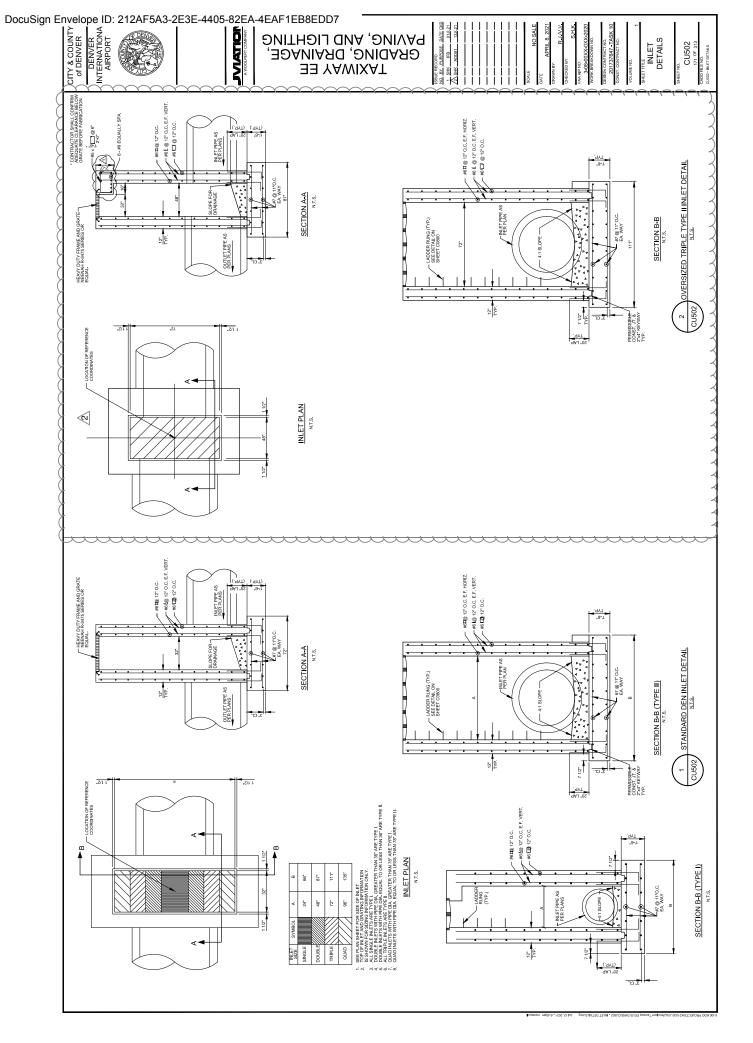


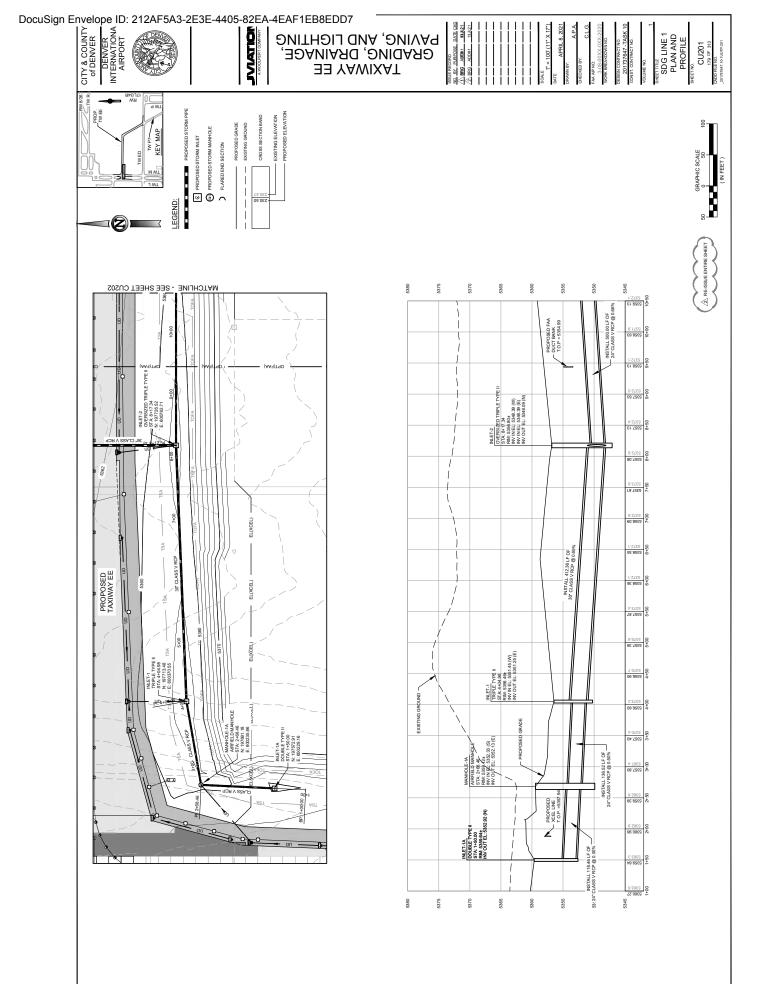


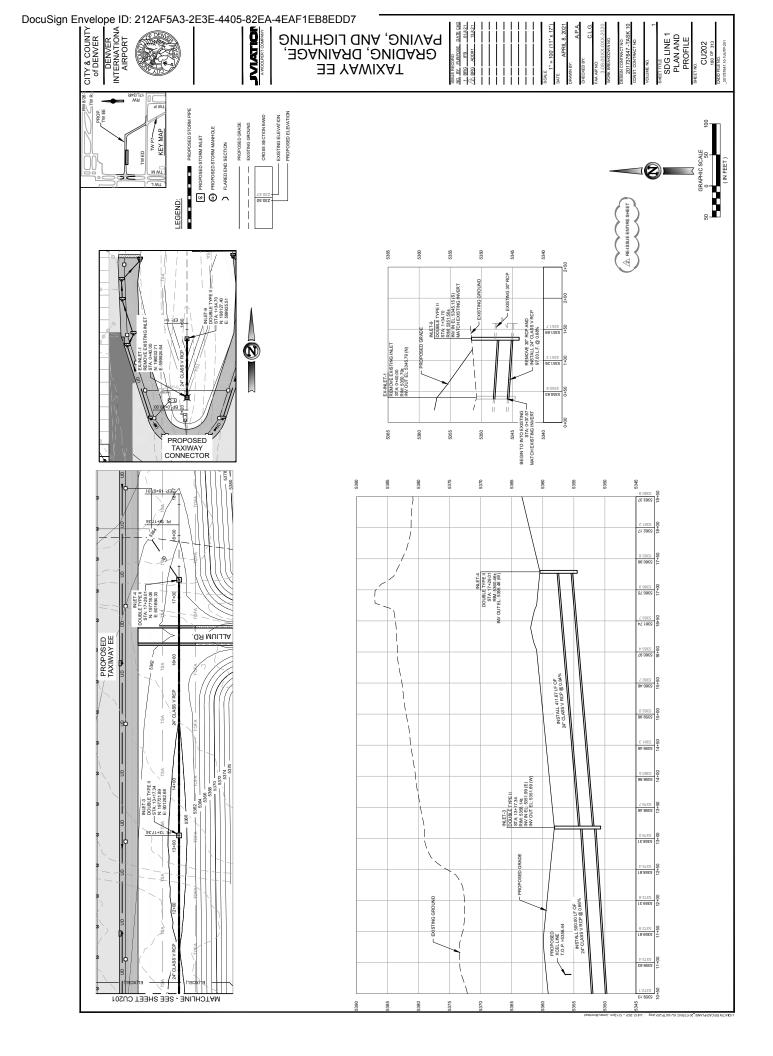


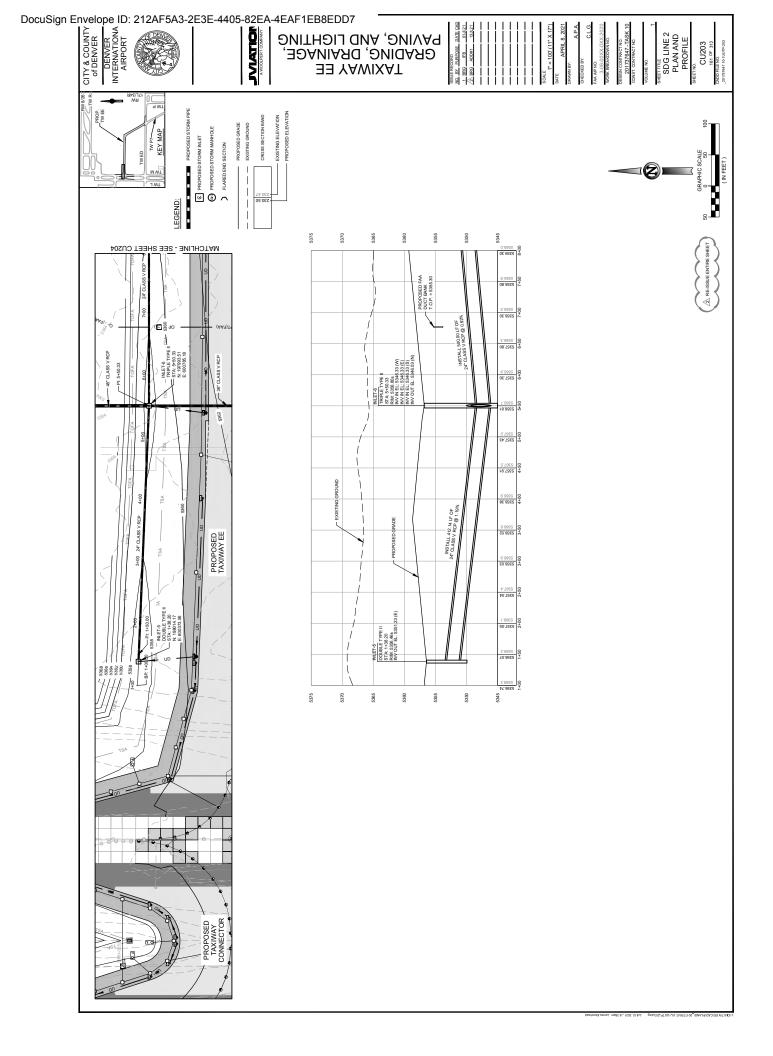


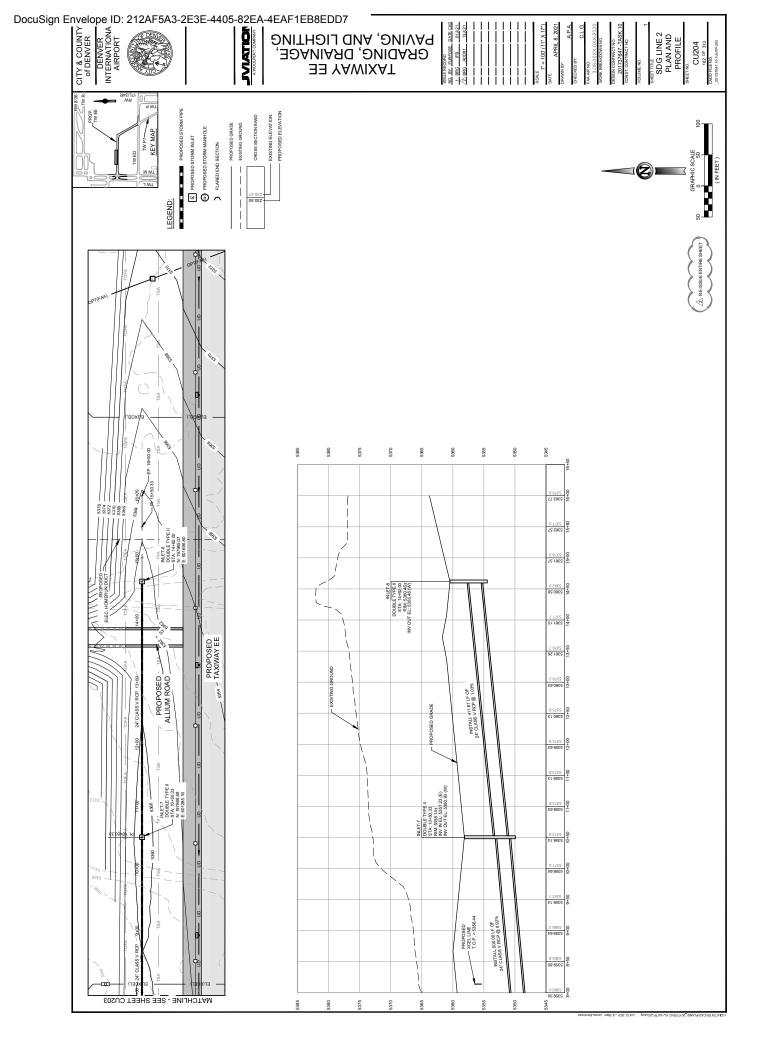


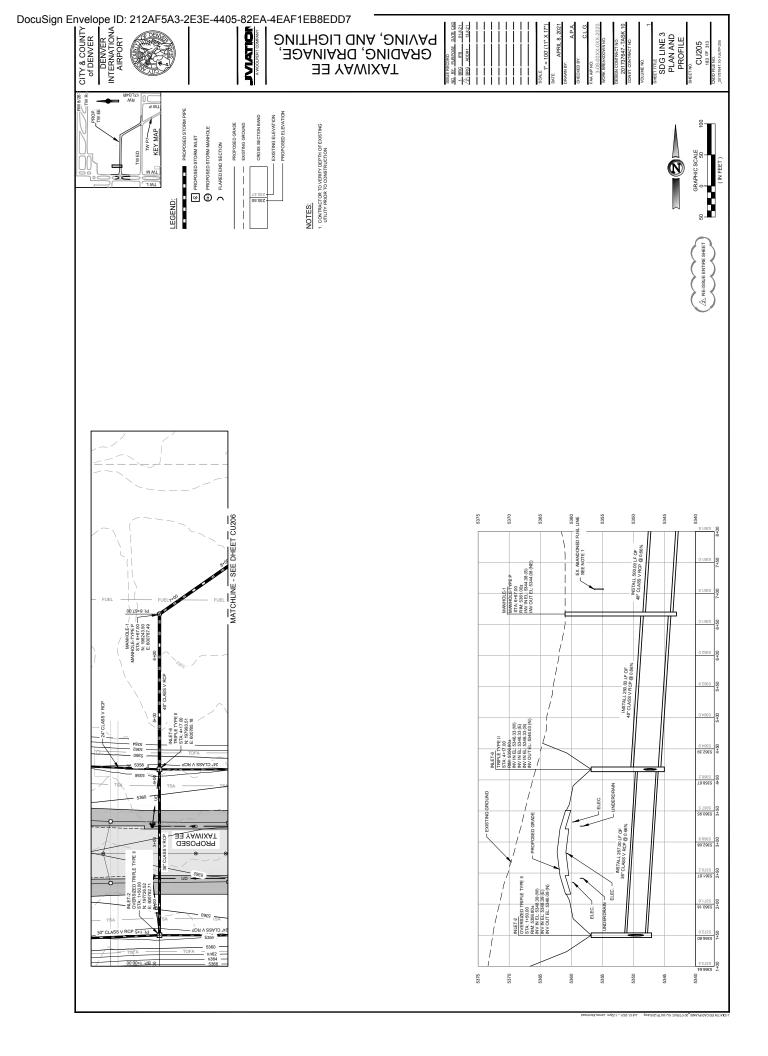


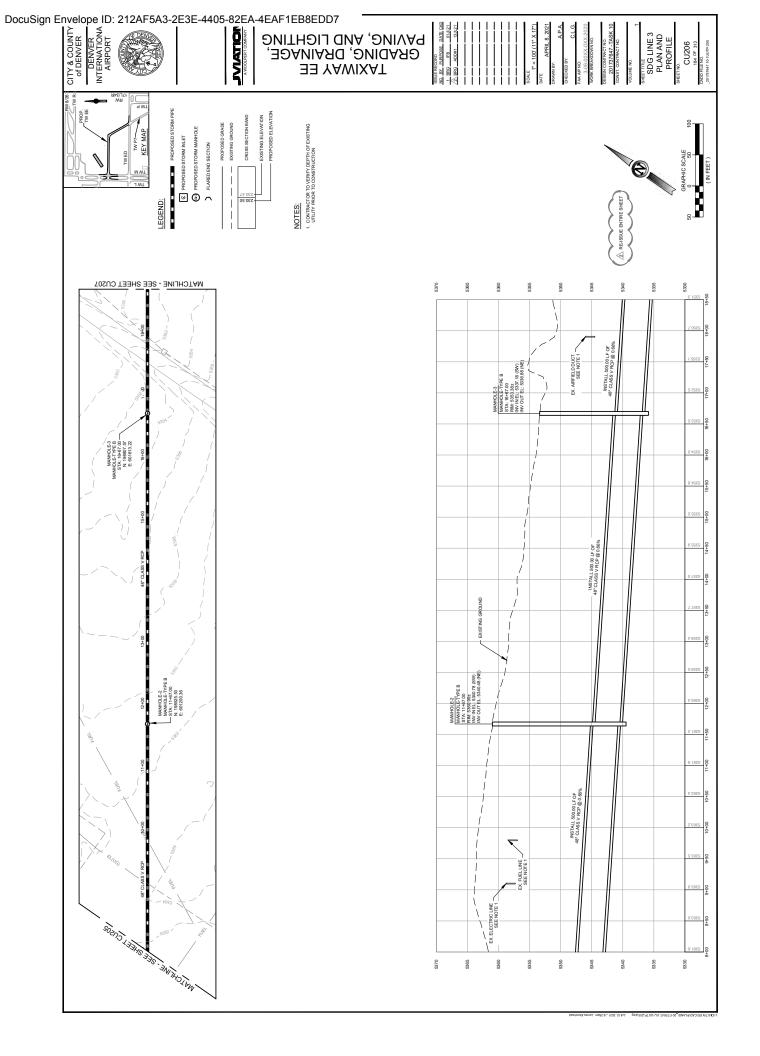


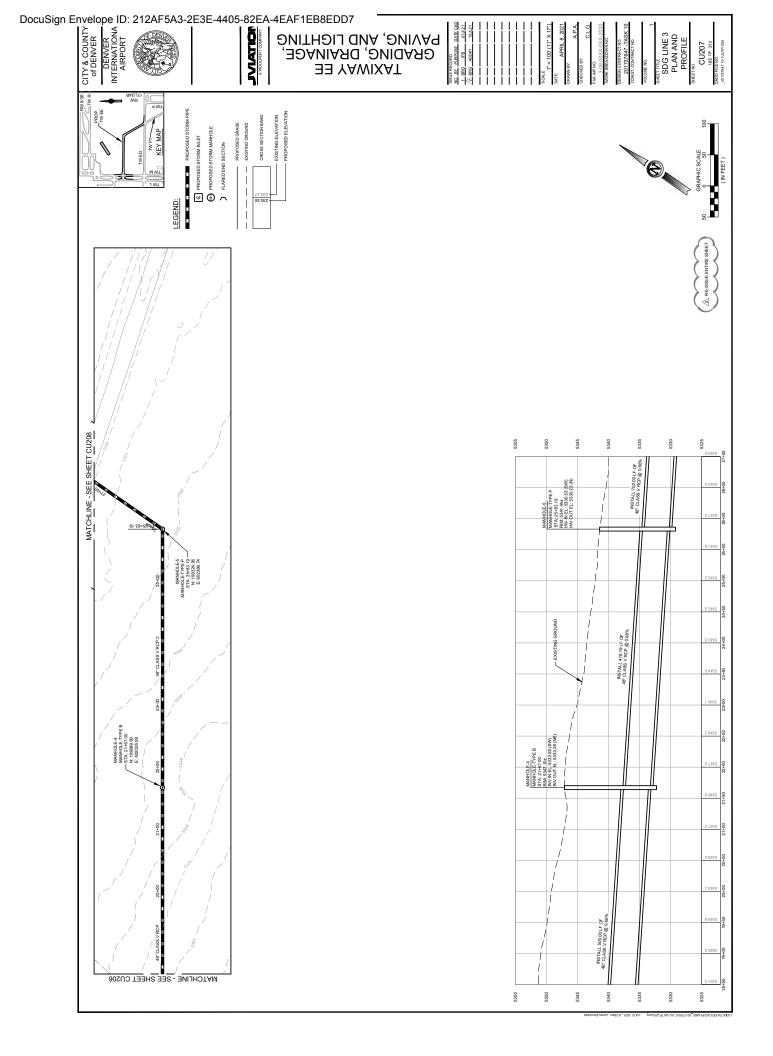


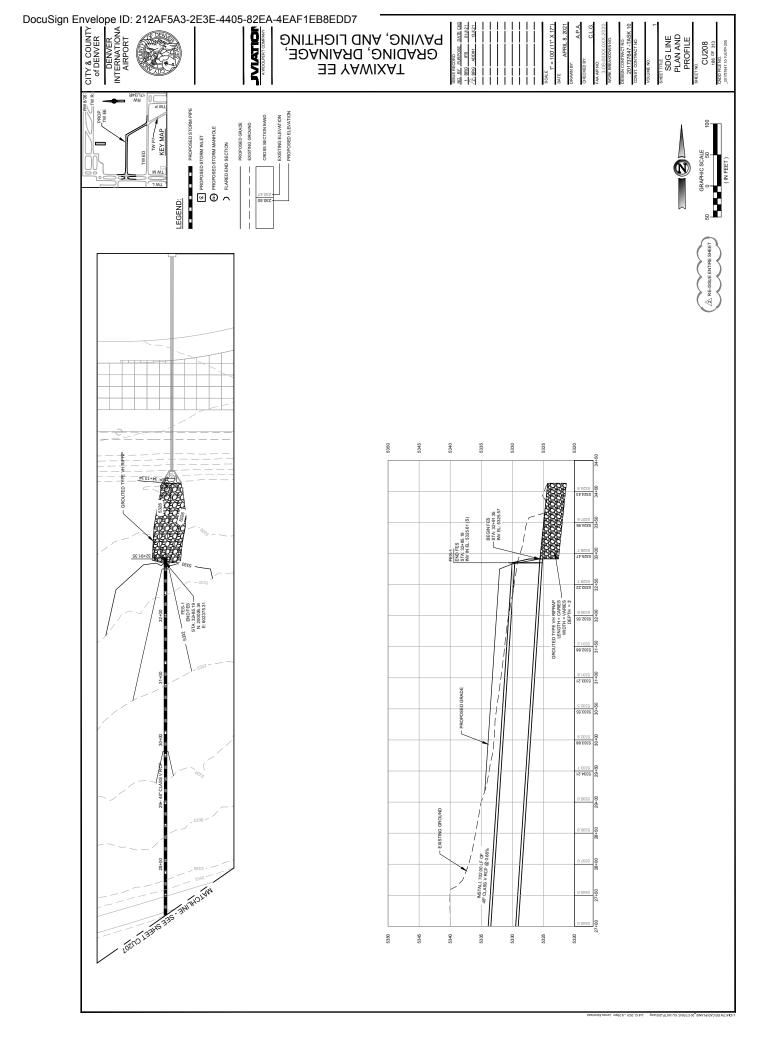


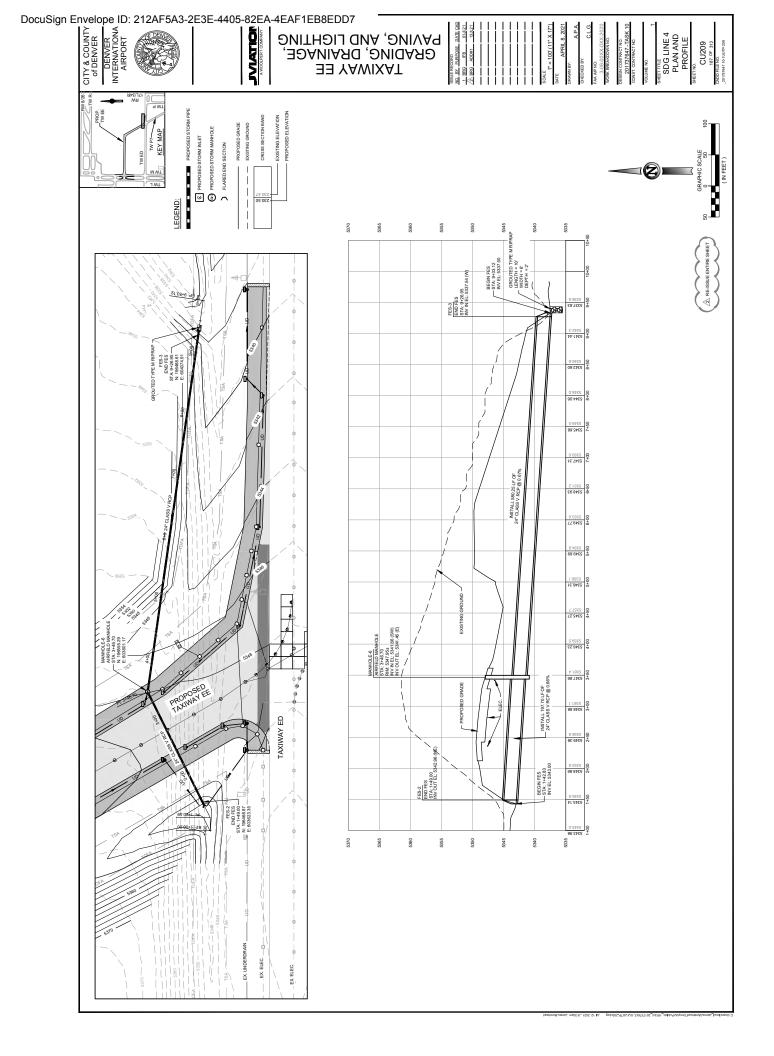


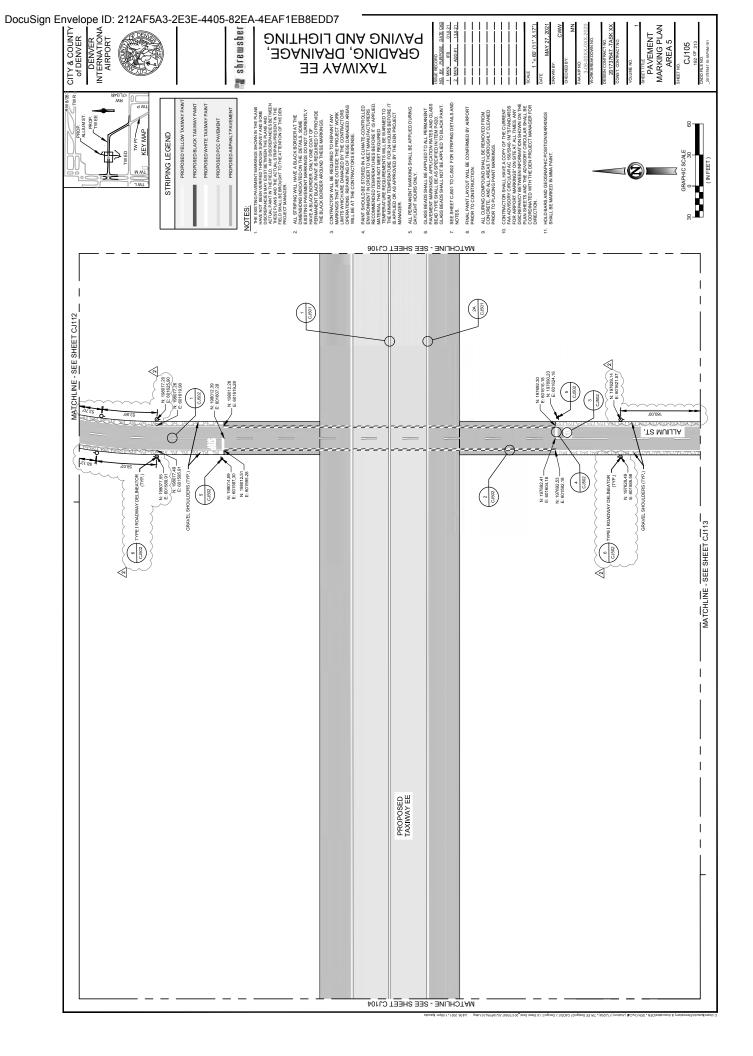


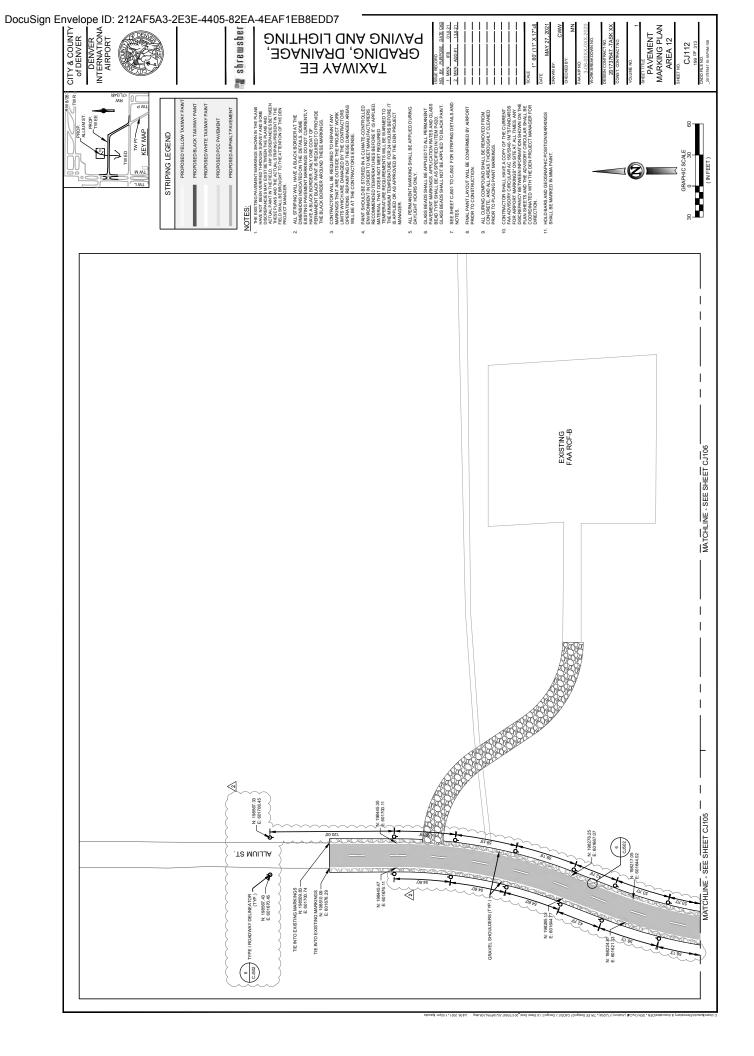


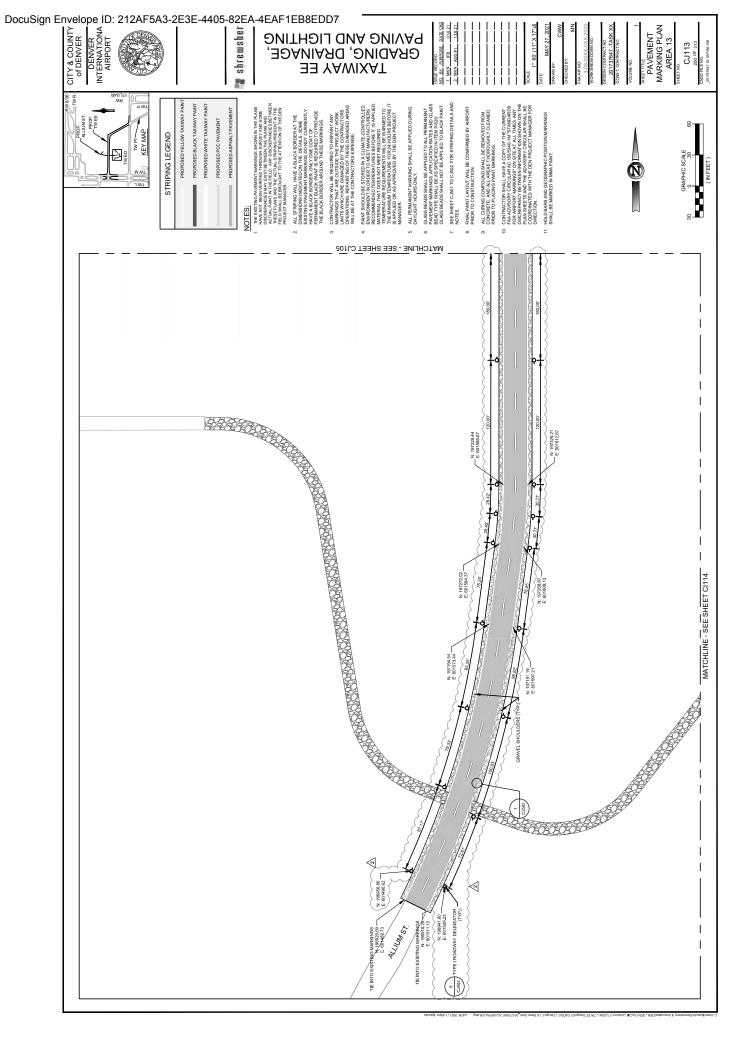


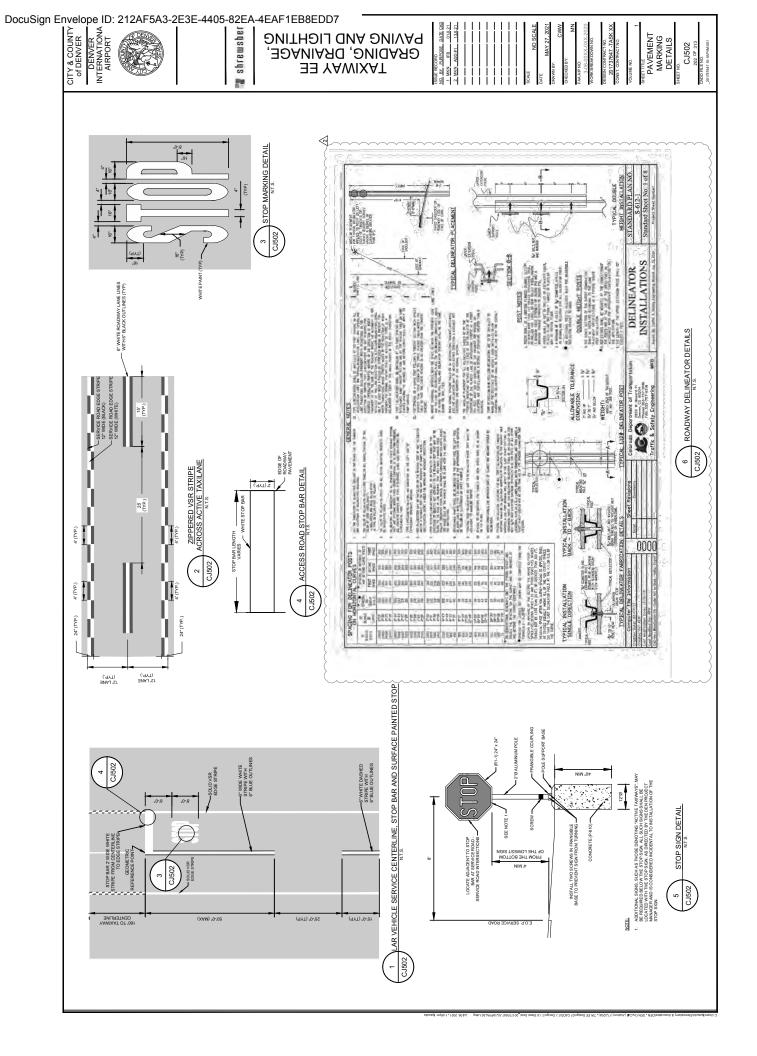


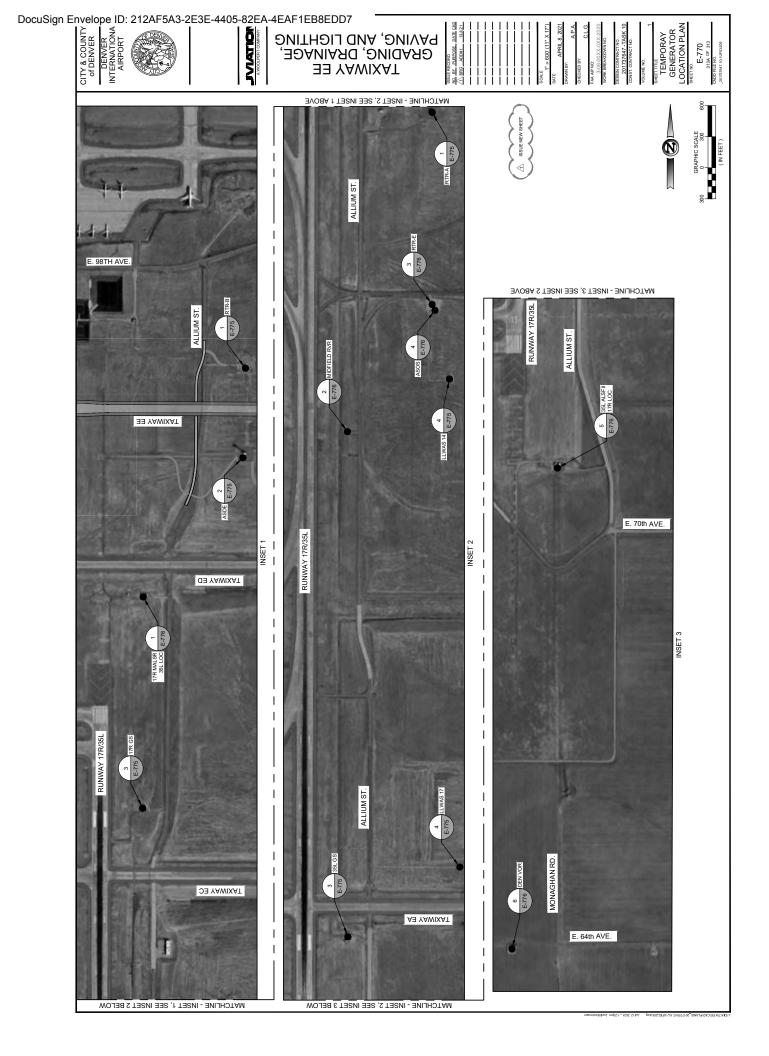


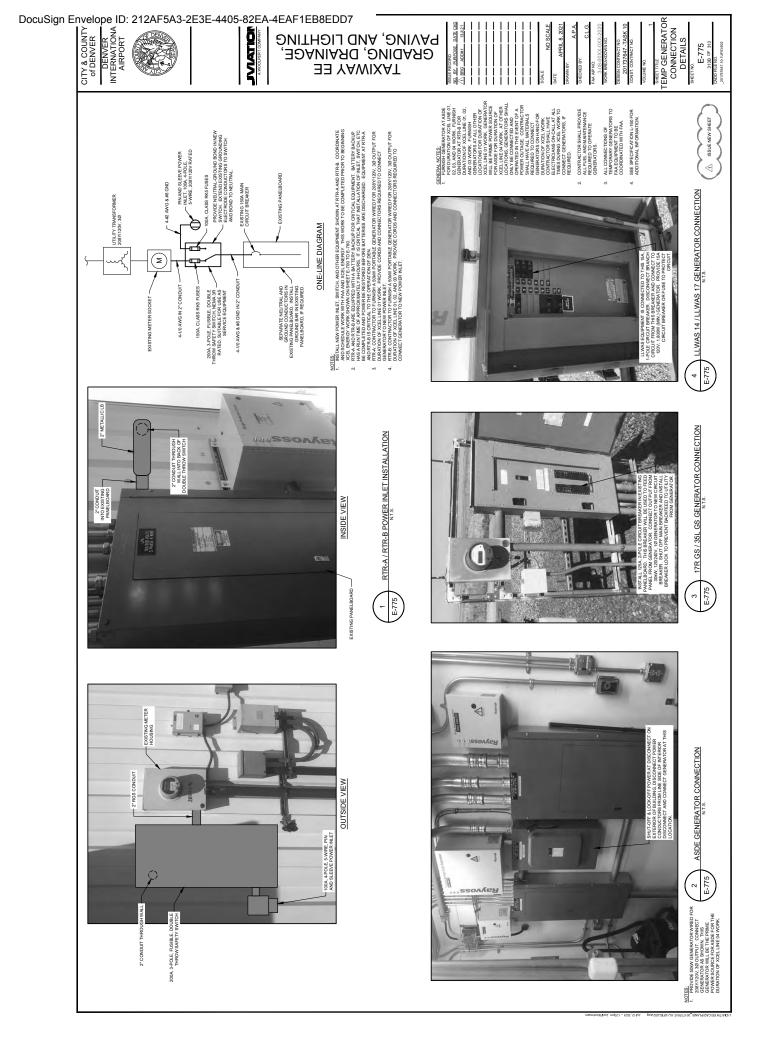


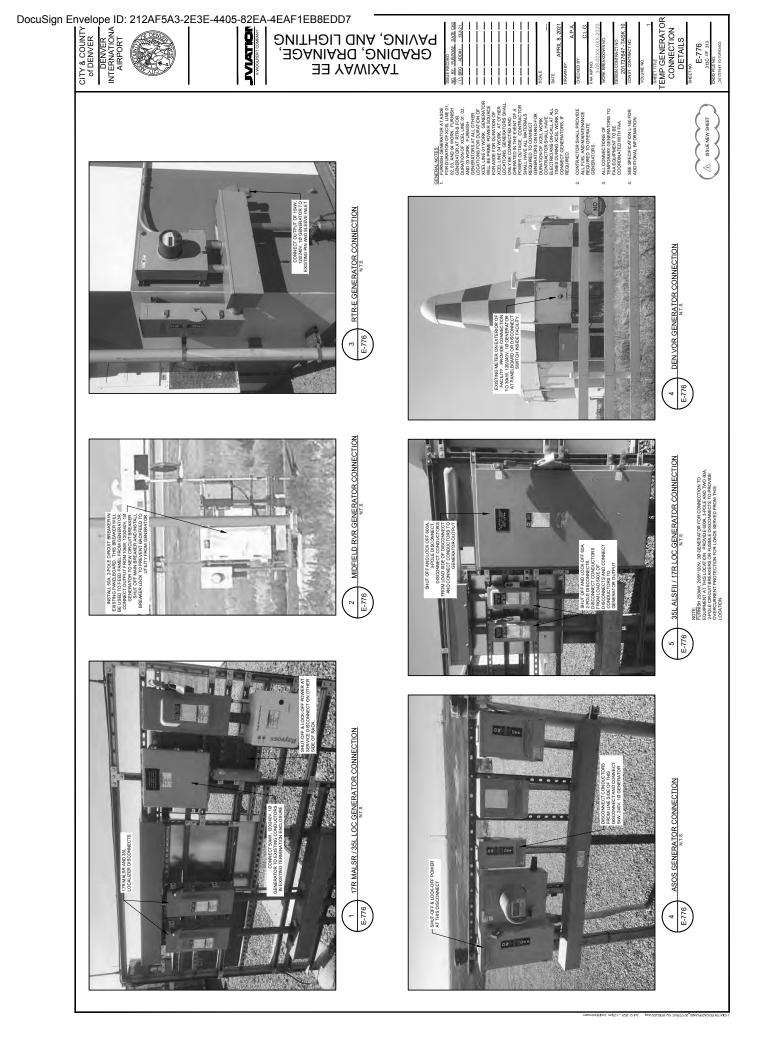














July 21, 2021

Taxiway EE Construction

IFB NO. 202158849

ADDENDUM NUMBER 2

This Addendum Number 2 supersedes and/or supplements all portions of the Bid Documents with which it conflicts. Proposers must acknowledge receipt of this addendum in the Attachment 1 Part 1 Bid Acknowledgement Letter.

Tony Deconincle

Tony Deconinck Contract Administrator Contract Services





DENVER INTERNATIONAL AIRPORT

TAXIWAY EE CONSTRUCTION

IFB NO. 202158849

ADDENDUM NUMBER 2

Scope of this Addendum

Addendum Number 2 includes modifications to the Invitation for Bid Documents issued July 1, 2021. These modifications are deemed necessary by the City and County of Denver.

BID FORMS

Please see attached for revisions.

PART II TECHNICAL SPECIFICATIONS

Please see attached for revisions.

PLANS

Please see attached for revisions.

GEOTECHNICAL

Please see attached for revisions.

The total number of pages (including cover sheet) contained in this Addendum Number 2 is eighty-nine (89).

* * * * * * *

End of Addendum Number 2



Addendum No. 2 July 21, 2021 To: Bid Forms, Technical Specifications and Plans Taxiway EE Grading, Drainage, Paving, and Lighting DEN Contract No. 202158849 Dated: July 1, 2021

ADDENDUM NO. 2 TO PLANS FOR IMPROVEMENTS TO DENVER INTERNATIONAL AIRPORT DENVER, COLORADO TAXIWAY EE GRADING, DRAINAGE, PAVING, AND LIGHTING DEN CONTRACT NO. 202158849

Bidders are informed that the above referenced Plans are modified as follows as of July 21, 2021.

1. BID FORMS

Delete Bid Forms and replace with attached Bid Forms.

Item P-152b name changed to "Excavation for Undercut (Less Than 3")" with a quantity for Schedule I of 14,950 CY.

Item P-152e Upper Select Subgrade - Item quantity for Schedule I changed to 32,700 CY.

Added Item P-152i Excavation for Undercut (Greater than 3') with a quantity for Schedule I of 4,980 CY.

Item P-220b Cement - Item quantity for Schedule I changed to 1,500 Tons.

Item D-701c Grouted Type "VH" Riprap (From On-Site Stockpile) – Item number changed to D-710c Grouted Type "VH" Riprap (From On-Site Stockpile) with a quantity of 230 CY.

Item D-701d Grouted Type "VH" Riprap (New) – Item number changed to D-710d Grouted Type "VH" Riprap (New) with a quantity of 404 CY.

Item L-132-5.2 name changed to "Removal of Existing LLWAS Including All Equipment, EES, Tower and Foundations" with a quantity for Schedule I of 1 LS.

2. PART II TECHNICAL SPECIFICATIONS

Division 2 Technical Specifications

All changes to the technical specifications included in Addendum No 2 are in blue text in the applicable specification. Please not the changes shown in red text were from Addendum No. 1.

Specification P-152 Excavation, Subgrade, and Embankment

Replace specification P-152 in its entirety with the attached specification P-152.

Section 152-1.4b was modified to read "b. Upper Select Embankment: the upper 1.5 feet (.45 m).

Section 152-1.4c was modified to read "c. The upper 1 foot (300 mm) of the Upper Select Embankment will be cement treated."

Section 152-1.4a. Cement Treated Upper Select Embankment was changed to Section 152-1.4d. Cement Treated Upper Select Embankment.

The first sentence of Section **152-1.4d. Cement Treated Upper Select Embankment** was changed to read "**d. Cement Treated Upper Select Embankment**. The Upper Select Embankment material, of which the upper 1 foot (300 mm) will be cement-treated, shall be an imported material free of unsuitable materials, with 100% passing the 1-inch sieve, no more than 45% retained on a No. 4 sieve, less than 50% passing the No. 200 sieve, a maximum Plasticity Index of 15, a maximum water soluble sulfates content of 0.5%, and less than 3% swell potential."

The following pay items have been modified:

P-152b Excavation for Undercut – per cubic yard was changed to P-152b Excavation for Undercut (Less than 3') – per cubic yard

P-152i Excavation for Undercut (Greater than 3') – per cubic yard was added.

Specification P-220 Cement Treated Soil Base Course

Replace specification P-220 in its entirety with the attached specification P-220.

Section 220-2.3 was modified to read "220-2.3 Soil. The soil for this work shall consist of the upper most 12 inches of select embankment as placed and paid for by P-152e Upper Select Embankment."

Section 220-6.1 The second sentence was modified to read "This price shall be full compensation for furnishing all materials, except soil and cement, and for all preparation, delivering, placing, and mixing of all materials; and for all labor, equipment, tools and incidentals necessary to complete the item."

Specification D-751 Manholes, Catch Basins, Inlets and Inspection Holes

The following pay items have been modified:

D-751c Install New 36" x 48" Inlet – per each was changed to D-751c Install Oversized Type II Inlet – per each

D-751g Convert Existing Inlet to Manhole – per each was changed to D-751g Remove Existing Inlet – per each

Addendum No. 2 July 21, 2021 To: Bid Forms, Technical Specifications and Plans Taxiway EE Grading, Drainage, Paving, and Lighting DEN Contract No. 202158849 Dated: July 1, 2021

3. PLANS

<u>Sheet G-004</u>

Replace sheet G-004 with the attached sheet G-004.

Modified summary of approximate quantities (table).

Modified note 13.

Modified notes 26 through 28.

Added notes 32 through 34.

Sheets G-005

Replace sheet G-005 with the attached sheet G-005.

Modified summary of approximate quantities (table).

Sheet C-302

Replace sheet C-302 with the attached sheet C-302.

Modified callouts to correctly identify project specifications.

Sheet CP501

Replace sheet CP501 with the attached sheet CP501.

Modified the callout on detail 5.

Modified note 1 for detail 5

Modified Joint Detail Notes 3 and 10

Removed Joint Detail Note 7

4. GEOTECHNICAL

Preliminary Geotechnical information has been included with this document.

** END OF ADDENDUM NO. 2 **

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Bidder Name: SCHEDULE I TOTAL \$ SCHEDULE II TOTAL \$ SCHEDULE II TOTAL \$ TOTAL ALL SCHEDULES \$ TOTAL ALL SCHEDULES \$ Bidder has examined the proposed site and is familiar with all site conditions.		BID PROPOSAL SUMMARY
SCHEDULE IT TOTAL \$ SCHEDULE II TOTAL \$ TOTAL ALL SCHEDULES \$ TOTAL ALL SCHEDULES \$ Bidder has examined the proposed site and is familiar with all site conditions.	Bidder Name:	
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TOTAL ALL SCHEDULES \$	SCHEDULE II TOTAL	¢ ?
Bidder has examined the proposed site and is familiar with all site conditions.	TOTAL ALL SCHEDULES	
	Bidder has examined the proposed	l site and is familiar with all site conditions.
Signature	Signature	

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Issued for Addendum No. 2 July 21, 2021

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: dollars and cents.	ILS	1	\$	\$
C-105a	Mobilization	at the unit price of: dollars and cents.	LS	1	\$€	\$
013223a	Construction As-built Survey	at the unit price of: dollars and cents.	LS	1	\$€	\$
015050a	Textura Software Fee	at the unit price of: dollars and cents.	ΓS	1	\$⊅=	\$
015525a	Flagger	at the unit price of: dollars and cents.	HR	22,080	\$€	\$
015525b	Gate Guard	at the unit price of: dollars and cents.	HR	17,360	\$	\$
015525c	Gate Guard Shack	at the unit price of: dollars and cents.	LS	1	\$	\$
015525d	Traffic Control	at the unit price of: dollars and cents.	LS	1	\$∱	\$
015719a	Temporary Erosion Control	at the unit price of: dollars and cents.	LS	1	\$	\$
P-101a	Remove Portland Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	2,484	69	69
P-101b	Remove Portland Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	425	69	63
P-101c	Remove Portland Cement Concrete Pavement (Non- Reinforced, 21")	at the unit price of: dollars and cents.	SY	143	69	\$€
P-101d	Full Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	16,551	\$	\$
P-101e	Partial Depth Asphalt Pavement Removal	at the unit price of: dollars and cents.	SY	158	\$	\$\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-101f	Remove Permeable Base Course	at the unit price of:	SY	17,862	\$€	\$
P-101g	Remove Cement Treated at the unit price of: Base Course and	at the unit price of:	SY	1,877	\$∕\$	\$₽
P-101h	Remove Cement Treated at the unit price of: Subgrade and	at the unit price of: dollars and cents.	SY	2,356	\$	\$
P-101i	Remove Asphalt Road - Complete	at the unit price of: dollars and cents.	SY	4,661	\$	\$
P-101j	Grind Cement Treated Base Course (0" to 1")	at the unit price of: dollars and cents.	SY	300	\$	\$
P-101k	Pavement Marking Removal	at the unit price of: dollars and cents.	SF	10,000	\$	\$
P-1011	Remove Gravel Road	at the unit price of: dollars and cents.	SY	2,280	\$	\$
P-152a	Unclassified Excavation	at the unit price of: dollars and cents.	CY	820,000	\$	\$
P-152b	Excavation for Undercut at the unit price of: (Less than 3) and	at the unit price of: dollars and cents.	CY	14,950	\$	\$
P-152c	Embankment (Commonat the unit price of:Fill)and	at the unit price of: dollars and cents.	CY	250,000	\$	\$
P-152d	Embankment (Stockpile Excess Material)	at the unit price of: dollars and cents.	CY	472,000	\$	\$
P-152e	Upper Select Subgrade	at the unit price of: dollars and cents.	CY	32,700	\$	\$
P-152f	Lower Select Subgrade	at the unit price of: dollars and cents.	CY	98,000	\$	\$
P-152g	Subgrade Preparation (12')	at the unit price of: dollars and cents.	SY	65,374	\$	\$
P-152h	Rock Excavation	at the unit price of: dollars and cents.	CY	10,000	\$7≠	\$
P-152i	Excavation for Undercut at the unit price of: (Greater than 3') and	at the unit price of: dollars and cents.	CY	4,980	\$7	∳
P-159a	Concrete Crushing	at the unit price of: dollars and cents.	TON	2,950	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-220a	Cement Treated Soil Base Course	at the unit price of: dollars and cents.	SY	65,374	\$	\$
P-220b	Cement	at the unit price of: dollars and cents.	TON	1,500	\$	\$
P-304a	Cement Treated Base Course	at the unit price of: dollars and cents.	SY	63,897	\$	\$
P-304Ca	CDOT Class 6 Roadway Base	at the unit price of: dollars and cents.	CY	1,975	\$	\$
P-307a	Cement Treated Permeable Base Course (CTPB) 7"	at the unit price of: dollars and cents.	SY	46,297	\$	\$
P-403a	Bituminous Surface Course	at the unit price of: dollars and cents.	TON	9,068	\$	\$
P-403b	Bituminous Base Course	at the unit price of: dollars and cents.	NOT	17,670	\$	\$
P-501a	Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of: dollars and cents.	SY	44,613	\$	\$
P-501b	Cement Concrete Pavement (Reinforced, 17")	at the unit price of: dollars and cents.	SY	9,207	\$?	\$
P-501c	Cement Concrete Pavement (Non Reinforced, 21")	at the unit price of: dollars and cents.	SY	6,523	\$?	\$
P-501d	Cement Concrete Pavement (Reinforced, 21")	at the unit price of: dollars and cents.	SY	1,965	\$	\$
P-501e	Bond Breaker Fabric	at the unit price of: dollars and cents.	SY	62,308	\$	\$
P-610a	Cement Treated Base Repair	at the unit price of: dollars and cents.	SY	150	\$	\$
P-620a	Pavement Markings, Waterborne	at the unit price of: dollars and cents.	SF	44,754	€	\$
P-620b	Pavement Markings, Metacrylate	at the unit price of: dollars and cents.	SF	3,075	\$7:	\$≯=

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
P-620c	Reflective Media	at the unit price of: dollars and cents.	LB	1,796	\$9	\$
P-620d	Stop Sign	at the unit price of: dollars and cents.	EA	0	\$7	\$
P-620e	Type I Roadway Delineator	at the unit price of: dollars and cents.	EA	36	\$	\$
D-701a	Install 24" Class V RCP	at the unit price of: dollars and cents.	LF	3,366	\$	\$
D-701b	Install 30" Class V RCP	at the unit price of: dollars and cents.	LF	413	\$	\$
D-701c	Install 36" Class V RCP	at the unit price of: dollars and cents.	LF	267	\$	\$
D-701d	Install 48" Class V RCP	at the unit price of: dollars and cents.	LF	2,870	\$	\$
D-701e	Install 24" FES	at the unit price of: dollars and cents.	EA	2	\$	\$
D-701f	Install 48" FES	at the unit price of: dollars and cents.	EA	1	\$	\$
D-701g	Remove 30" RCP	at the unit price of: dollars and cents.	LF	26	\$	\$
D-705a	Install 6" Underdrain (Perforated PVC)		LF	10,485	\$9	\$
D-705b	Install 6" Underdrain (Non-Perforated PVC)	at the unit price of: dollars and cents.	LF	2,510	\$7	\$
D-705c	Repair Damaged Underdrain Pipe	at the unit price of: dollars and cents.	LF	200	\$7	\$
D-705d	Install Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	80	\$	\$
D-705e	Remove Underdrain Pipe at the unit price of: and	at the unit price of: dollars and cents.	LF	4,092	\$	\$
D-705f	Remove Underdrain Cleanouts	at the unit price of: dollars and cents.	EA	L	\$	\$
D-710a	Grouted Type "M" Riprap	at the unit price of: dollars and cents.	CY	5	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-710b	Remove and Stockpile Existing Type "VH" Riprap	at the unit price of: dollars and cents.	CY	230	\$	\$
D-710c	Grouted Type "VH" Riprap (From On-Site Stockpile)	at the unit price of: dollars and cents.	CY	230	\$	\$
D-710d	Grouted Type "VH" Riprap (New)	at the unit price of: dollars and cents.	CY	404	\$	\$
D-751a	'riple Type ure	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751b	Install New Double Type at the unit price II Inlet Structure and	at the unit price of: dollars and cents.	ΕA	7	\$	\$
D-751c	Install Oversized Triple Type II Inlet	at the unit price of: dollars and cents.	EA	1	\$	\$
D-751d	Install Airfield Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751e	Install Type B Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$
D-751f	Install Type P Manhole	at the unit price of: dollars and cents.	EA	2	\$	\$
D-751g	Remove Existing Inlet	at the unit price of: dollars and cents.	EA	1	\$	\$
D-751h	Install Underdrain Manholes	at the unit price of: dollars and cents.	EA	16	\$	\$
D-751i	Tie To Existing Structure	at the unit price of: dollars and cents.	EA	1	\$	\$
T-901a	Seeding (Seed Mix Design 2)	at the unit price of: dollars and cents.	AC	235	\$	\$
T-905a	Topsoiling	at the unit price of: dollars and cents.	CY	49,248	\$	\$
T-908a	Hydraulic Mulching	at the unit price of: dollars and cents.	AC	235	\$	\$
T-908b	Erosion Control Blankets and and	at the unit price of: dollars and cents.	SY	86,527	\$	\$

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-108a	#8 AWG L-824C, 5000V Conductor	at the unit price of: dollars and cents.	LF	194,000	\$€	\$€
L-110a	1W-2" Sch. 40 PVC Conduit in Earth	at the unit price of:	LF	550	\$	\$
L-110b	1W-2" Sch. 40 PVC Conduit in New Concrete Pavement	at the unit price of: dollars and cents.	НГF	7,580	\$	\$7 }
L-110c	1W-2" Sch. 40 PVC Conduit in New Asphalt Pavement	at the unit price of: dollars and cents.	LF	13,425	\$	69
L-110d	8W-4" Sch. 40 PVC Concrete Encased Duct Bank	at the unit price of: dollars and cents.	LF	1,800	\$\$	\$7 }
L-110e	Broken Conduit Repair	at the unit price of: dollars and cents.	EA	2	\$	\$
L-110f	Remove Concrete Encased Duct Bank	at the unit price of: dollars and cents.	ΤĿ	9,550	\$	\$
L-115a	Install New Electrical Manhole	at the unit price of: dollars and cents.	EA	3	\$	\$
L-115b	Adjust Existing Electrical at the unit price of: Manhole and	at the unit price of: dollars and cents.	EA	2	\$	\$
L-115c	Remove Existing Electrical Manhole	at the unit price of: dollars and cents.	ΕA	ŝ	\$	\$
L-120c	Install L-847-2 Circuit Selector Switch	at the unit price of:	EA	1	\$	\$
L-120d	Install L-847-3 Circuit Selector Switch	at the unit price of: dollars and cents.	EA	1	\$	\$
L-125a	L-852C LED Taxiway Unidirectional Centerline Light	at the unit price of: dollars and cents.	EA	3	\$€	\$7
L-125b	L-852C LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	101	\$€;	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125c	L-852K LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of: dollars and cents.	EA	80	\$€	\$4}=
L-125d	L-861T Quartz Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	62	\$	\$4≑
L-125e	L-861T LED Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: dollars and cents.	EA	99	\$	\$4}
L-125f	L-861T LED Taxiway Edge Light Mounted on L-868 Base Can	at the unit price of: dollars and cents.	EA	1	\$9	\$4}=
L-125g	L-868B 3/4" Thick Cover Plate	at the unit price of: dollars and cents.	EA	9	\$	⇔
L-125h	L-867B 3/8" Thick Cover Plate	at the unit price of: dollars and cents.	EA	4	\$	\$
L-125i	New 22" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	172	\$	(/) =
L-125j	New 26" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: dollars and cents.	EA	10	\$	\$9
L-125k	New L-867B Base Can in at the unit price of: New Asphalt Pavement and	at the unit price of: dollars and cents.	EA	121	\$€	₩
L-125l	New L-867B Base Can in Existing Asphalt Pavement	at the unit price of: dollars and cents.	EA	7	(s)	(/)=
L-125m	L-858 LED Guidance Sign - 2 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$
L-125n	L-858 LED Guidance Sign - 3 Mod	at the unit price of: dollars and cents.	EA	10	\$	\$
L-1250	L-858 LED Guidance Sign - 4 Mod	at the unit price of: dollars and cents.	EA	1	\$∱	⇔
L-125p	New Guidance Sign Foundation - 3 Mod	at the unit price of: dollars and cents.	EA	8	\$	⇔

Issued for Addendum No. 2 July 21, 2021

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-125q	New Guidance Sign Foundation - 4 Mod	at the unit price of: dollars and cents.	EA	I	\$	\$
L-125r	New Guidance Sign Foundation - 5 Mod	at the unit price of: dollars and cents.	EA	2	\$	\$
L-125s	Remove Existing Sign and Base	at the unit price of: dollars and cents.	EA	3	\$	\$
L-125t	Remove Fixture and Base Can	at the unit price of: dollars and cents.	EA	102	\$	\$4
L-125u	Reconnect 2" Conduit at Location of Removed Base Can	at the unit price of: dollars and cents.	EA	7	\$9	\$9≑
L-125v	Remove and Replace Fixture or Sign ID Marker	at the unit price of: dollars and cents.	EA	215	\$	\$
L-125w	Remove and Replace Circuit ID Tag	at the unit price of: dollars and cents.	EA	92	\$	\$
L-125x	Cover Taxiway Edge Light	at the unit price of: dollars and cents.	EA	24	\$	\$
L-125y	Mask Off Taxiway Centerline Light	at the unit price of: dollars and cents.	EA	42	\$	\$
L-125z	Cover Guidance Sign	at the unit price of: dollars and cents.	EA	16	\$	\$
L-125aa	Edge Light Drain	at the unit price of: dollars and cents.	EA	6	\$	\$7⊧
L-132-5.1	Installation of New LLWAS Including All Equipment and Foundations, As Shown on Contract Documents	at the unit price of: dollars and cents.	LS	1	\$9	\$
L-132-5.2	Removal of Existing LLWAS Including All at th Equipment, EES, Tower and and Foundations	at the unit price of: dollars and cents.	IS	1	\$\$	↔

	Docomination	SCHEDULE I	IInito	Estimated		F
Desc	Description		Units	Quantity	Unit Price	Total
Conc Sche Duct	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 4 Way 4 Inch	at the unit price of: dollars and cents.	LF	6,000	\$	\$
Con Sche Duc	Concrete Encased, Schedule 80 PVC, FAA at th Duct Bank, 2 Way 2 Inch	at the unit price of: dollars and cents.	LF	1,400	\$	\$
#1/ Cop Wir Wir Duc Cor Ten	#1/0 AWG, Bare Copper FAA Guard Wire Installed Above Duct Bank or Conduit, Including Ground Rods, Connections, and Terminations	at the unit price of:	LF	7,500	\$€	59
FAA Manh Feet	Communications 10le, 6 Feet by 6	at the unit price of: dollars and cents.	EA	Ĺ	₩:	\$7
FA Fee	FAA Power Manhole, 6 Feet by 6 Feet	at the unit price of: dollars and cents.	EA	4	\$	\$
2-# AV Ins Co Co Co Te	2-#2 AWG and 1-#4 AWG Ground Cable Installed in Duct Bank or at the unit price of: Conduit, Including All and Connections and Terminations	at the unit price of: dollars and cents.	LF	1,550	₩	\$4
Po Ph	Post-Construction Photometric Testing	at the unit price of: dollars and cents.	LS	1	\$}	\$
C P D P	Fiber Optic Cable Installed in Innerduct in Duct or Conduit, Including Testing and Connections	at the unit price of: dollars and cents.	LF	36,000	\$	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-150-2	25 pair #22 AWG Type USE Cable, Installed in Duct Bank or Conduit	at the unit price of:	LF	800	\$	\$7≠
L-160a	Furnish 250kW Generator for 35L ALSFII/17R LOC Temp Power (208Y/120V, 3- phase)	at the unit price of:	EA	1	∽	\$4
L-160b	Connect 250kW Generator for 35L ALSFII/17R LOC Temp and Power	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160c	Operate 250kW Generator	at the unit price of: dollars and cents.	DAY	2	\$∱	\$
L-160d	Furnish 50kW Generator for RTR-A Temp Power (208Y/120V, 3-phase)	at the unit price of:	EA	1	\$	\$
L-160e	Furnish 50kW Generator for RTR-B Temp Power (208Y/120V, 3-phase)	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160f	Furnish 50kW Generator for ASDE Temp Power (208Y/120V, 3-phase)	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160g	Furnish 50kW Generator for 17R MALSR/35L LOC Temp Power (120/240V, 1-phase)	at the unit price of: dollars and cents.	EA	1	\$9	\$ 9:
L-160h	Install 100A Power Inlet at RTR-A or RTR-B	at the unit price of: dollars and cents.	EA	0	\$	\$

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-160i	Connect 50kW Generator for ASDE Temp Power	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160j	Connect 50kW Generator for 17R MALSR/35L LOC Temp Power	at the unit price of: dollars and cents.	EA	1	69 5	\$ \$=
L-160k	Operate 50kW Generator at the unit price of:	at the unit price of: dollars and cents.	DAY	13	\$	\$
L-160l	Furnish 30kW Generator for 17R GS or 35L GS at th Temp Power (120/240V, and 1-phase)	at the unit price of: dollars and cents.	EA	7	69 7	\$4
L-160m	Furnish 30kW Generator for DEN VOR Temp Power (120/240V, 1- phase)	at the unit price of: dollars and cents.	EA	1	\$9 :	∽
L-160n	Connect 30kW Generator for 17R GS or at the unit price of: 35L GS Temp Power	at the unit price of: dollars and cents.	EA	7	\$₽	\$4
L-1600	Connect 30kW Generator for DEN VOR Temp Power	at the unit price of: dollars and cents.	EA	1	\$€	\$
L-160p	Operate 30kW Generator	at the unit price of: dollars and cents.	DAY	6	\$	\$
L-160q	Furnish 15kW Generator for RTR-E Temp Power (120/240V, 1-phase)	at the unit price of: dollars and cents.	EA	1	\$9:	\$
L-160r	Operate 15kW Generator at the unit price of: for RTR-E Temp Power and	at the unit price of: dollars and cents.	EA	1	\$	\$7;

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		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
L-160s	Furnish 10kW Generator for Midfield RVR Temp Power (120/240V, 1- phase)	at the unit price of: dollars and cents.	EA	1	\$	\$
L-160t	Connect 10kW Generator for Midfield RVR Temp Power	at the unit price of: dollars and cents.	EA	1	\$∱:	\$
L-160u	Operate 10kW Generator at the unit price	at the unit price of: dollars and cents.	DAY	2	\$	\$
L-160v	Furnish 5kW Generator for ASOS Temp Power (240V, 1-phase)	at the unit price of: dollars and cents.	EA	1	↔	\$
L-160w	Connect 5kW Generator at the unit price for ASOS Temp Power and	at the unit price of: dollars and cents.	EA	1	\$	\$7≠
L-160x	Operate 5kW Generator	at the unit price of: dollars and cents.	DAY	2	\$	\$-
L-160y	Furnish 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power (120V, 1-phase)	at the unit price of: dollars and cents.	EA	2	\$	\$
L-160z	Connect 1.8kW Generator for LLWAS 14 or LLWAS 17 Temp Power	at the unit price of: dollars and cents.	EA	2	\$	\$
L-160aa	Operate 1.8kW Generator	at the unit price of: dollars and cents.	DAY	4	\$	\$

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SCHEDULE I TOTAL \$_

SCHEDULE II	Units Estimated Unit Price Total	dollars LS 1 \$	dollarsSY100\$cents.\$\$	dollarsEA1\$cents.EA1	dollarsEA1\$cents.EA1	dollars LS 1 \$
SCHEDULE II						dollars cents.
		at the unit price of:and	at the unit price of:and	at the unit price of:and	at the unit price of: and	at the unit price of:
	Item No. Description	Mobilization at an	Pavement Spall Repair at an	Furnish L-847-2 Circuit at the unit price of. Selector Switch and	Furnish L-847-3 Circuit at the unit price of: Selector Switch and	ALCMS Modifications an an
	Item No.	C-105a	P-501f	L-120a	L-120b	13410Aa

SCHEDULE II TOTAL \$

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1 2	IT	'EM P-152 EXCAVATION, SUBGRADE, AND EMBANKMENT
3 4		DESCRIPTION
5 6 7 8 9	the work r areas for d	is item covers excavation, disposal, placement, and compaction of all materials within the limits of equired to construct safety areas, runways, taxiways, aprons, and intermediate areas as well as other lrainage, building construction, parking, or other purposes in accordance with these specifications formity to the dimensions and typical sections shown on the plans.
10 12	152-1.2 CI	ASSIFICATION. All material excavated shall be classified as defined below:
12 13 14 15	a.	Unclassified excavation. Unclassified excavation shall consist of the excavation and disposal of all material, regardless of its nature.
16 17 18 19 20	b.	Rock excavation . Rock excavation shall include all solid rock in ledges, in bedded deposits, in unstratified masses, and conglomerate deposits which are so firmly cemented they cannot be removed without blasting or using rippers. All boulders containing a volume of more than 1/2 cubic yard (0.4 m ³) will be classified as "rock excavation."
20 21 22 23 24 25	shown on shall be co	NSUITABLE EXCAVATION. Unsuitable material shall be disposed in designated waste areas as the plans. Materials containing vegetable or organic matter, such as muck, peat, organic silt, or sod insidered unsuitable for use in embankment construction. Material suitable for topsoil may be used bankment slope when approved by the DEN Project Manager.
26 27 28		ELECT EMBANKMENT. Select Embankment shall consist of material as described below. 2 zones of Select Embankment Material:
29 30	a.	Lower Select Embankment: the lower 4.5 feet (1.4 m)
31 32	b.	Upper Select Embankment: the upper θ 1.5 feet (.445 m).
33 34 35	с.	The upper <u>8 inches (200 mm) to</u> 1 foot (300 mm) of the Upper Select Embankment will be cement treated.
55 36 37 38 39 40 41 42 43	conditioning performed grades, when mm) lift the and water	lect Embankment material shall consist of existing in-place select fill, including moisture ng of the existing on-site select fill. Moisture conditioning of the existing select fill shall be to a depth of 5 feet (1.5 m) below planned finished grades or to 3 feet (1 m) below existing site ichever is greater. This will require over-excavation of existing soils using a maximum 8 inch (200 ickness, and tested for classification (including gradation and Atterberg limits), swell-consolidation, soluble sulfates will not be required for Lower Select Embankment material consisting of in-place are conditioned existing on-site select fill.
14 15 16 17 18 19 50	claystone, maximum sample sha D 698 fo placement	d, imported Lower Select Embankment materials shall be free of unsuitable materials, including contain 100% passing the 3 inch (75 mm) sieve, less than 90% passing the No. 200 sieve, have a Liquid Limit of 40, a maximum Plasticity Index of 30, and less than 3% swell potential. The swell all be remolded to 95% of the maximum dry density at optimum moisture as determined by ASTM r initial acceptance of the proposed imported Lower Select Embankment Material. During of the imported Lower Select Embankment Material, the swell sample shall be obtained from the l in-place imported Lower Select Embankment Material.

TECHNICAL SPECIFICATIONS DENVER INTERNATIONAL AIRPORT DIVISION 2-AIRFIELD STANDARDS ITEM P-152 EXCAVATION, SUBGRADE, AND EMBANKMENT AC 150/5370-10H

51 The lower and upper select embankment materials should be properly moisture conditioned and compacted 52 in accordance with the specifications. 53 54

55 Upper Select embankment material shall be obtained from the borrow area indicated in the plans and shall meet the requirements of the specification. 56

a.d. Cement Treated Upper Select Embankment. The Upper Select Embankment material, of which the upper 8 inches (200 mm) to 1 foot (300 mm) will be cement-treated, shall be an imported material free of unsuitable materials, with 100% passing the 1-inch sieve, no more than 45% retained on a No. 4 sieve, less than 50% passing the No. 200 sieve, a maximum Plasticity Index of 15, a maximum water soluble sulfates content of 0.5%, and less than 3% swell potential. The swell sample shall be remolded to 95% of the maximum dry density at optimum moisture as determined by ASTM D 698 for initial acceptance of the proposed Upper Select Embankment material. During placement of the Upper Select Embankment material, the swell sample shall be obtained from the compacted in-place Upper Select Embankment material.

152-1.5 MATERIAL CLASSIFICATION. 68 Non-cohesive soils, for the purposes of determining 69 compaction control, are those with a plasticity index of less than 3 when tested in accordance with ASTM D 70 4318. Any other material shall be considered cohesive. 71

CONSTRUCTION METHODS

75 152-2.1 GENERAL. Before beginning excavation, grading, and embankment operations in any area, the area 76 shall be cleared or cleared and grubbed in accordance with Item P-151.

78 The suitability of material to be placed in embankments shall be subject to approval by the DEN Project 79 Manager. All unsuitable material shall be disposed of in waste areas as shown on the plans. All waste areas 80 shall be graded to allow positive drainage of the area and adjacent areas. The surface elevation of waste areas 81 shall be specified on the plans or approved by the DEN Project Manager.

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83 When the Contractor's excavating operations encounter artifacts of historical or archaeological significance, the operations shall be temporarily discontinued and the DEN Project Manager notified per Section 70, 84 paragraph 70-20. At the direction of the DEN Project Manager, the Contractor shall excavate the site in such 85 86 a manner as to preserve the artifacts encountered and allow for their removal. Such excavation will be paid 87 for as extra work. 88

Areas outside the limits of the pavement areas where the top layer of soil has become compacted by hauling 89 or other Contractor activities shall be scarified and disked to a depth of 4 inches (100 mm), to loosen and 90 pulverize the soil. Stones or rock fragments larger than 4 inches (100 mm) in their greatest dimension will not 91 be permitted in the top 6 inches (150 mm) of the subgrade. 92

93

94 If it is necessary to interrupt existing surface drainage, sewers or under-drainage, conduits, utilities, or similar underground structures, the Contractor shall be responsible for and shall take all necessary precautions to 95 96 preserve them or provide temporary services. When such facilities are encountered, the Contractor shall 97 notify the DEN Project Manager, who shall arrange for their removal if necessary. The Contractor, at their own expense, shall satisfactorily repair or pay the cost of all damage to such facilities or structures that may 98 result from any of the Contractor's operations during the period of the contract. 99

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101 102 a. **Blasting.** Blasting shall not be allowed.

103 **152-2.2 EXCAVATION.** No excavation shall be started until the work has been staked out by the 104 Contractor and the DEN Project Manager has obtained from the Contractor, the survey notes of the 105 elevations and measurements of the ground surface. The Contractor and DEN Project Manager shall agree 106 that the original ground lines shown on the original topographic mapping are accurate, or agree to any 107 adjustments made to the original ground lines.

108

Digital terrain model (DTM) files of the existing surfaces, finished surfaces and other various surfaces wereused to develop the design plans.

111

112 Volumetric quantities were calculated by comparing DTM files of the applicable design surfaces and 113 generating Triangle Volume Reports. Electronic copies of DTM files and a paper copy of the original 114 topographic map will be issued to the successful bidder.

115

116 Volumetric quantities were calculated using design cross sections which were created for this project using the 117 DTM files of the applicable design surfaces and generating End Area Volume Reports. Paper copies of 118 design cross sections and a paper copy of the original topographic map will be issued to the successful bidder.

119

Existing grades on the design cross sections or DTM's, where they do not match the locations of actual spot 120 elevations shown on the topographic map, were developed by computer interpolation from those spot 121 elevations. Prior to disturbing original grade, Contractor shall verify the accuracy of the existing ground 122 123 surface by verifying spot elevations at the same locations where original field survey data was obtained as indicated on the topographic map. Contractor shall recognize that, due to the interpolation process, the actual 124 125 ground surface at any particular location may differ somewhat from the interpolated surface shown on the design cross sections or obtained from the DTM's. Contractor's verification of original ground surface, 126 however, shall be limited to verification of spot elevations as indicated herein, and no adjustments will be 127 made to the original ground surface unless the Contractor demonstrates that spot elevations shown are 128 incorrect. For this purpose, spot elevations which are within 0.1 foot (30 mm) of the stated elevations for 129 ground surfaces, or within 0.04 foot (12 mm) for hard surfaces (pavements, buildings, foundations, structures, 130 etc.) shall be considered "no change". Only deviations in excess of these will be considered for adjustment of 131 the original ground surface. If Contractor's verification identifies discrepancies in the topographic map, 132 Contractor shall notify the DEN Project Manager in writing at least two weeks before disturbance of existing 133 grade to allow sufficient time to verify the submitted information and make adjustments to the design cross 134 135 sections or DTM's. Disturbance of existing grade in any area shall constitute acceptance by the Contractor of the accuracy of the original elevations shown on the topographic map for that area. 136

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All areas to be excavated shall be stripped of vegetation and topsoil. Topsoil shall be stockpiled for future use in areas designated on the plans or by the DEN Project Manager. All suitable excavated material shall be used in the formation of embankment, subgrade, or other purposes as shown on the plans. All unsuitable material shall be disposed of as shown on the plans.

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143 The grade shall be maintained so that the surface is well drained at all times.

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When the volume of the excavation exceeds that required to construct the embankments to the grades as indicated on the plans, the excess shall be used to grade the areas of ultimate development or disposed as directed by the DEN Project Manager. When the volume of excavation is not sufficient for constructing the

- 147 directed by the DEN Project Manager. When the volume of excavation is not sufficient f 148 embankments to the grades indicated, the deficiency shall be obtained from borrow areas.
- 149

- Selective grading. When selective grading is indicated on the plans, the more suitable material 150 a. designated by the DEN Project Manager shall be used in constructing the embankment or in 151 capping the pavement subgrade. If, at the time of excavation, it is not possible to place this 152 material in its final location, it shall be stockpiled in approved areas until it can be placed. The 153 more suitable material shall then be placed and compacted as specified. Selective grading shall be 154 considered incidental to the work involved. The cost of stockpiling and placing the material shall 155 be included in the various pay items of work involved. 156
- 157 b. Undercutting. Rock, shale, hardpan, loose rock, boulders, or other material unsatisfactory for 158 safety areas, subgrades, roads, shoulders, or any areas intended for turf shall be excavated to a 159 160 minimum depth of 12 inches (300 mm) below the subgrade or to the depth specified by the DEN Project Manager. Muck, peat, matted roots, or other yielding material, unsatisfactory for 161 subgrade foundation, shall be removed to the depth specified. Unsuitable materials shall be 162 disposed off the airport. The cost is incidental to this item. This excavated material shall be paid 163 for at the contract unit price per cubic yard (per cubic meter) for Unclassified Excavation. The 164 excavated area shall be backfilled with suitable material obtained from the grading operations or 165 borrow areas and compacted to specified densities. The necessary backfill will constitute a part 166 of the embankment. Where rock cuts are made, backfill with select material. Any pockets created 167 in the rock surface shall be drained in accordance with the details shown on the plans. 168 Undercutting will be paid as unclassified excavation. 169
- **Over-break.** Over-break, including slides, is that portion of any material displaced or loosened c. 172 beyond the finished work as planned or authorized by the DEN Project Manager. All over-break shall be graded or removed by the Contractor and disposed of as directed by the DEN Project 173 Manager. The DEN Project Manager shall determine if the displacement of such material was 174 unavoidable and their own decision shall be final. Payment will not be made for the removal and 175 disposal of over-break that the DEN Project Manager determines as avoidable. Unavoidable 176 over-break will be classified as "Unclassified Excavation."
- d. **Removal of utilities.** The removal of existing structures and utilities required to permit the 179 180 orderly progress of work will be accomplished by the Contractor as indicated on the plans. All 181 existing foundations shall be excavated at least 2 feet (60 cm) below the top of subgrade or as indicated on the plans, and the material disposed of as directed by the DEN Project Manager. All 182 foundations thus excavated shall be backfilled with suitable material and compacted as specified 183 for embankment or as shown on the plans. 184
- Hazardous Materials. Some material (equipment, debris, soil, wastes, etc.) may be affected by 186 e. hazardous constituents, chemicals or compounds used during oil and gas production, residential 187 development, public improvement construction or agricultural use. Material contaminated or 188 potentially contaminated with hazardous constituents, chemicals or compounds shall be assessed 189 by the contractor regarding the hazardous characteristic(s) of each material. The assessment will 190 be made in accordance with requirements specified by the Colorado Department of Public 191 192 Health and Environment (CDPHE) and the Colorado Department of Natural Resources - Oil and Gas Conservation Commission (OGCC). The Contractor shall notify the DEN Project 193 194 Manager Engineer in writing immediately upon discovery or suspicion of the existence of such hazardous material. 195
- 197 152-2.3 Borrow excavation. Borrow areas within the airport property are indicated on the plans. Borrow 198 excavation shall be made only at these designated locations and within the horizontal and vertical limits as staked or as directed by the DEN Project Manager. All unsuitable material shall be disposed of by the 199

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TECHNICAL SPECIFICATIONSDENVER INTERNATIONAL AIRPORTDIVISION 2-AIRFIELD STANDARDSTAXIWAY EE GRADING, DRAINAGE,ITEM P-152 EXCAVATION, SUBGRADE, AND EMBANKMENTPAVING, AND LIGHTINGAC 150/5370-10HCONSTRUCTION CONTRACT NO. 202158849

200 Contractor as shown on the plans. All borrow pits shall be opened to expose the various strata of acceptable 201 material to allow obtaining a uniform product. Borrow areas shall be drained and left in a neat, presentable 202 condition with all slopes dressed uniformly. Borrow areas shall not create a hazardous wildlife attractant.

The contractor shall distinguish borrow sources to distinguish materials to be used as common embankment and select embankment. The Contractor shall prepare a Select Embankment Material Plan for select material excavation and select material placement based on the plan information and the Contractor's further exploration of upper select embankment material availability. The Select Embankment Material Plan shall contain the results of the following investigation:

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- **a.** Select Borrow investigation for designated areas.
- b. Test hole or pit explorations in runway/taxiway and select borrow areas at approximately 300' on centers.
- c. Sample testing at each exploration for depth of topsoil, depth of select material, elevation of
 surface, and laboratory tests for Plasticity Index, sieve analysis, percent passing 200 sieve,
 classification, soluble sulfates, and swell consolidation.
 - **d.** Detailed log of each test hole or pit.
 - e. Estimate of select material available in each area.

152-2.4 DRAINAGE EXCAVATION. Drainage excavation shall consist of excavating drainage ditches 223 including intercepting, inlet, or outlet ditches; or other types as shown on the plans. The work shall be 224 performed in sequence with the other construction. Ditches shall be constructed prior to starting adjacent 225 excavation operations. All satisfactory material shall be placed in embankment fills; unsuitable material shall 226 be placed in designated waste areas or as directed by the DEN Project Manager. All necessary work shall be 227 performed true to final line, elevation, and cross-section. The Contractor shall maintain ditches constructed 228 on the project to the required cross-section and shall keep them free of debris or obstructions until the 229 project is accepted. 230

231

152-2.5 PREPARATION OF CUT AREAS OR AREAS WHERE EXISTING PAVEMENT HAS
 BEEN REMOVED. In those areas on which a subbase or base course is to be placed, the top 24 inches of
 subgrade shall be compacted to not less than 100% of maximum density for non-cohesive soils, and 95% of
 maximum density for cohesive soils as determined by ASTM <u>D698</u>. As used in this specification, "non cohesive" shall mean those soils having a plasticity index (PI) of less than 3 as determined by ASTM D4318.

152-2.6 PREPARATION OF EMBANKMENT AREA. All sod and vegetative matter shall be removed
 from the surface upon which the embankment is to be placed. The cleared surface shall be broken up by
 plowing or scarifying to a minimum depth of 6 inches (150 mm) and shall then be compacted per paragraph
 152-2.10.

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Sloped surfaces steeper than one (1) vertical to four (4) horizontal shall be plowed, stepped, benched, or broken up so that the fill material will bond with the existing material. When the subgrade is part fill and part excavation or natural ground, the excavated or natural ground portion shall be scarified to a depth of 12 inches (300 mm) and compacted as specified for the adjacent fill.

247

No direct payment shall be made for the work performed under this section. The necessary clearing and grubbing and the quantity of excavation removed will be paid for under the respective items of work.

152-2.7 CONTROL STRIP. The first half-day of construction of subgrade and/or embankment shall be 251 considered as a control strip for the Contractor to demonstrate, in the presence of the DEN Project Manager, 252 that the materials, equipment, and construction processes meet the requirements of this specification. The 253 254 sequence and manner of rolling necessary to obtain specified density requirements shall be determined. The maximum compacted thickness may be increased to a maximum of 12 inches (300 mm) upon the 255 256 Contractor's demonstration that approved equipment and operations will uniformly compact the lift to the 257 specified density. The DEN Project Manager must witness this demonstration and approve the lift thickness prior to full production. 258

259

Control strips that do not meet specification requirements shall be reworked, re-compacted, or removed and replaced at the Contractor's expense. Full operations shall not begin until the control strip has been accepted by the DEN Project Manager. The Contractor shall use the same equipment, materials, and construction methods for the remainder of construction, unless adjustments made by the Contractor are approved in advance by the DEN Project Manager.

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152-2.8 FORMATION OF EMBANKMENTS. The material shall be constructed in lifts as established in
 the control strip, but not less than 6 inches (150 mm) nor more than 12 inches (300 mm) of compacted
 thickness.

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When more than one lift is required to establish the layer thickness shown on the plans, the construction procedure described here shall apply to each lift. No lift shall be covered by subsequent lifts until tests verify that compaction requirements have been met. The Contractor shall rework, re-compact and retest any material placed which does not meet the specifications.

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The lifts shall be placed, to produce a soil structure as shown on the typical cross-section or as directed by the DEN Project Manager. Materials such as brush, hedge, roots, stumps, grass and other organic matter, shall not be incorporated or buried in the embankment.

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Earthwork operations shall be suspended at any time when satisfactory results cannot be obtained due to rain, freezing, or other unsatisfactory weather conditions in the field. Frozen material shall not be placed in the embankment nor shall embankment be placed upon frozen material. Material shall not be placed on surfaces that are muddy, frozen, or contain frost. The Contractor shall drag, blade, or slope the embankment to provide surface drainage at all times.

284

The material in each lift shall be within 0% to 2% of optimum moisture content before rolling to obtain the prescribed compaction. The material shall be moistened or aerated as necessary to achieve a uniform moisture content throughout the lift. Natural drying may be accelerated by blending in dry material or manipulation alone to increase the rate of evaporation.

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The Contractor shall make the necessary corrections and adjustments in methods, materials or moisture content to achieve the specified embankment density.

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293 The contractor will take samples of excavated materials which will be used in embankment for testing and 294 develop a Moisture-Density Relations of Soils Report (Proctor) in accordance with ASTM D698. A new 295 Proctor shall be developed for each soil type based on visual classification.

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Density tests will be taken by the contractor for every 1,000 square yards of compacted embankment for each
 lift which is required to be compacted, or other appropriate frequencies as determined by the DEN Project
 Manager.

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TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
DIVISION 2-AIRFIELD STANDARDS	TAXIWAY EE GRADING, DRAINAGE,
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- If the material has greater than 30% retained on the 3/4-inch (19.0 mm) sieve, follow AASHTO T-180
 Annex Correction of maximum dry density and optimum moisture for oversized particles.
- 303

Rolling operations shall be continued until the embankment is compacted to not less than 95% of maximum density for non-cohesive soils, and 90% of maximum density for cohesive soils as determined by ASTM D698. Under all areas to be paved, the embankments shall be compacted to a depth of 24 inches and to a density of not less than 95 percent of the maximum density as determined by ASTM D698. As used in this specification, "non-cohesive" shall mean those soils having a plasticity index (PI) of less than 3 as determined by ASTM D4318.

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311 On all areas outside of the pavement areas, no compaction will be required on the top 6 inches which shall be 312 prepared for a seedbed in accordance with Item T-9505.

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The in-place field density shall be determined in accordance with ASTM D1556 or ASTM 6938 using Procedure A, the direct transmission method, and ASTM D6938 shall be used to determine the moisture content of the material. The machine shall be calibrated in accordance with ASTM D6938.

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The Contractor's laboratory shall perform all density tests in the DEN Project Manager's presence and provide the test results upon completion to the DEN Project Manager for acceptance. If the specified density is not attained, the area represented by the test or as designated by the DEN Project Manager shall be reworked and/or re-compacted and additional random tests made. This procedure shall be followed until the specified density is reached.

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Compaction areas shall be kept separate, and no lift shall be covered by another lift until the proper density is obtained.

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During construction of the embankment, the Contractor shall route all construction equipment evenly over the entire width of the embankment as each lift is placed. Lift placement shall begin in the deepest portion of the embankment fill. As placement progresses, the lifts shall be constructed approximately parallel to the finished pavement grade line.

331

When rock, concrete pavement, asphalt pavement, and other embankment material are excavated at 332 approximately the same time as the subgrade, the material shall be incorporated into the outer portion of the 333 334 embankment and the subgrade material shall be incorporated under the future paved areas. Stones, fragmentary rock, and recycled pavement larger than 4 inches (100 mm) in their greatest dimensions will not 335 be allowed in the top 12 inches (300 mm) of the subgrade. Rockfill shall be brought up in lifts as specified or 336 as directed by the DEN Project Manager and the finer material shall be used to fill the voids forming a dense, 337 338 compact mass. Rock, cement concrete pavement, asphalt pavement, and other embankment material shall not be disposed of except at places and in the manner designated on the plans or by the DEN Project Manager. 339

340

When the excavated material consists predominantly of rock fragments of such size that the material cannot be placed in lifts of the prescribed thickness without crushing, pulverizing or further breaking down the pieces, such material may be placed in the embankment as directed in lifts not exceeding 2 feet (60 cm) in thickness. Each lift shall be leveled and smoothed with suitable equipment by distribution of spalls and finer fragments of rock. The lift shall not be constructed above an elevation 4 feet (1.2 m) below the finished subgrade.

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348 152-2.9 PROOF ROLLING. The purpose of proof rolling the subgrade is to identify any weak areas in the 349 subgrade and not for compaction of the subgrade. After compaction is completed, the subgrade area shall be

proof rolled with a 20 ton (18.1 metric ton) Tandem axle Dual Wheel Dump Truck loaded to the legal limit 350 with tires inflated to 80/100/150 psi (0.551 MPa/0.689 MPa/1.034 MPa) in the presence of the DEN Project 351 Manager. Apply a minimum coverage as specified by the DEN Project Manager, under pavement areas. A 352 coverage is defined as the application of one tire print over the designated area. Soft areas of subgrade that 353 354 deflect more than 1 inch (25 mm) or show permanent deformation greater than 1 inch (25 mm) shall be removed and replaced with suitable material or reworked to conform to the moisture content and 355 356 compaction requirements in accordance with these specifications. Removal and replacement of soft areas is 357 incidental to this item. 358 152-2.10 COMPACTION REQUIREMENTS. The subgrade under areas to be paved shall be compacted 359 to a depth of 24 inches and to a density of not less than 95 percent of the maximum dry density as 360 determined by ASTM D698. The subgrade in areas outside the limits of the pavement areas shall be 361 compacted to a depth of 12 inches and to a density of not less than 95 percent of the maximum density as 362 determined by ASTM D698. 363 364 The material to be compacted shall be within $\pm 2\%$ of optimum moisture content before being rolled to 365 obtain the prescribed compaction (except for expansive soils). When the material has greater than 30 percent 366 retained on the ³/₄ inch (19.0 mm) sieve, follow the methods in ASTM D698, or procedures in AASHTO 367 T180 Annex for correction of maximum dry density and optimum moisture for oversized particles.] Tests 368 for moisture content and compaction will be taken at a minimum of 100 S.Y. of subgrade. All quality 369 assurance testing shall be done by the Contractor's laboratory in the presence of the DEN Project Manager, 370 371 and density test results shall be furnished upon completion to the DEN Project Manager for acceptance 372 determination. 373 The in-place field density shall be determined in accordance with ASTM D1556, or ASTM D6938 using 374 Procedure A, the direct transmission method, and ASTM D6938 shall be used to determine the moisture 375 content of the material. The machine shall be calibrated in accordance with ASTM D6938 within 12 months 376 prior to its use on this contract. The gage shall be field standardized daily. 377 378 Maximum density refers to maximum dry density at optimum moisture content unless otherwise specified. 379 380 If the specified density is not attained, the entire lot shall be reworked and/or re-compacted and additional 381 random tests made. This procedure shall be followed until the specified density is reached. 382

- All cut-and-fill slopes shall be uniformly dressed to the slope, cross-section, and alignment shown on the
 plans or as directed by the DEN Project Manager and the finished subgrade shall be maintained.
- 152-2.11 FINISHING AND PROTECTION OF SUBGRADE. Finishing and protection of the subgrade is incidental to this item. Grading and compacting of the subgrade shall be performed so that it will drain readily. All low areas, holes or depressions in the subgrade shall be brought to grade. Scarifying, blading, rolling and other methods shall be performed to provide a thoroughly compacted subgrade shaped to the lines and grades shown on the plans. All ruts or rough places that develop in the completed subgrade shall be graded, re-compacted, and retested. The Contractor shall protect the subgrade from damage and limit hauling over the finished subgrade to only traffic essential for construction purposes.
- 394
- The Contractor shall maintain the completed course in satisfactory condition throughout placement of subsequent layers. No subbase, base, or surface course shall be placed on the subgrade until the subgrade has been accepted by the DEN Project Manager.
- 398

TECHNICAL SPECIFICATIONSDENVER INTERNATIONAL AIRPORTDIVISION 2-AIRFIELD STANDARDSTAXIWAY EE GRADING, DRAINAGE,ITEM P-152 EXCAVATION, SUBGRADE, AND EMBANKMENTPAVING, AND LIGHTINGAC 150/5370-10HCONSTRUCTION CONTRACT NO. 202158849

- 399 152-2.12 HAUL. All hauling will be considered a necessary and incidental part of the work. The Contractor 400 shall include the cost in the contract unit price for the pay of items of work involved. No payment will be 401 made separately or directly for hauling on any part of the work.
- 402

The Contractor's equipment shall not cause damage to any excavated surface, compacted lift or to the subgrade as a result of hauling operations. Any damage caused as a result of the Contractor's hauling operations shall be repaired at the Contractor's expense.

406

411

The Contractor shall be responsible for providing, maintaining and removing any haul roads or routes within or outside of the work area, and shall return the affected areas to their former condition, unless otherwise authorized in writing by the Owner. No separate payment will be made for any work or materials associated with providing, maintaining and removing haul roads or routes.

- 412 **152-2.13 SURFACE TOLERANCES.** In those areas on which a subbase or base course is to be placed, the 413 surface shall be tested for smoothness and accuracy of grade and crown. Any portion lacking the required 414 smoothness or failing in accuracy of grade or crown shall be scarified to a depth of at least 3 inches (75 mm), 415 reshaped and re-compacted to grade until the required smoothness and accuracy are obtained and approved 416 by the DEN Project Manager. The Contractor shall perform all final smoothness and grade checks in the 417 presence of the DEN Project Manager. Any deviation in surface tolerances shall be corrected by the 418 Contractor at the Contractor's expense.
- 419 420

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- **a. Smoothness.** The finished surface shall not vary more than +/- ½ inch (12 mm) when tested with a 12-foot (3.7-m) straightedge applied parallel with and at right angles to the centerline. The straightedge shall be moved continuously forward at half the length of the 12-foot (3.7-m) straightedge for the full length of each line on a 50-foot (15-m) grid.
- **b.** Grade. The grade and crown shall be measured on a 50-foot (15-m) grid and shall be within +/-0.05 feet (15 mm) of the specified grade.
- 426 427

On safety areas, turfed areas and other designated areas within the grading limits where no subbase or base is to placed, grade shall not vary more than 0.10 feet (30 mm) from specified grade. Any deviation in excess of this amount shall be corrected by loosening, adding or removing materials, and reshaping.

152-2.14 TOPSOIL. When topsoil is specified or required as shown on the plans or under Item T-905, it 432 433 shall be salvaged from stripping or other grading operations. The topsoil shall meet the requirements of Item T-905. If, at the time of excavation or stripping, the topsoil cannot be placed in its final section of finished 434 construction, the material shall be stockpiled at approved locations. Stockpiles shall be located as shown on 435 436 the plans and the approved CSPP, and shall not be placed on areas that subsequently will require any 437 excavation or embankment fill. If, in the judgment of the DEN Project Manager, it is practical to place the salvaged topsoil at the time of excavation or stripping, the material shall be placed in its final position without 438 stockpiling or further re-handling. 439

440

441 Upon completion of grading operations, stockpiled topsoil shall be handled and placed as shown on the plans
442 and as required in Item T-905. Topsoil shall be paid for as provided in Item T-905. No direct payment will
443 be made for topsoil under Item P-152.
444

- 445 **152-2.15 RESTORING BORROW AREAS.** The Contractor shall, upon completion of his borrow
 446 excavation activities, prepare the borrow sites for planting by performing the following work:
- 447 448
- a. Remove and bury all rock over 6" in dimension in accordance with rock disposal methods as

449 450		noted under Section 3.02 Excavation P-152.
451 452	b.	Grade all sites to drain as indicated in these specifications and drawings.
453	с.	Remove all trash and other foreign objects so that the areas can be reused for farming purposes.
454 455 456 457 458 459 460	d.	Rip the borrow area site in a manner as approved by the DEN Project Manager. After the area is ripped to the 18 inch (450 mm) depth, the area ripped shall be treated on the surface to reduce excessive surface roughness or cloddiness and produce an area suitable for future seeding. Treatment may include discing, harrowing, cultipacking or other means as approved by the DEN Project Manager. In areas where rock is the predominant surface remaining, the Contractor may spread 18 inches (450 mm) of acceptable material over the rock areas as approved by the DEN
461 462 463	All work re	Project Manager at no additional cost to the City. quired to prepare the borrow area for planting as designated under this section shall be considered
464 465	as incidenta	
466 467		METHOD OF MEASUREMENT
468 469 470 471 472 473	comparison area is that	easurement for payment specified by the cubic yard (cubic meter) shall be computed by the n of digital terrain model (DTM) surfaces for computation of neat line design quantities. The end bound by the original ground line established by field cross-sections and the final theoretical pay hed by cross-sections shown on the plans, subject to verification by the DEN Project Manager.
474 475 476 477 478	meters) me	he quantity of Unclassified Excavation to be paid for shall be the number of cubic yards (cubic asured in its original position. Measurement shall not include the quantity of materials excavated thorization beyond normal slope lines, or the quantity of material used for purposes other than ted.
479 480 481 482 483	meters) me	he quantity of Excavation for Undercut to be paid for shall be the number of cubic yards (cubic asured in its original position. Measurement shall not include the quantity of materials excavated thorization beyond normal slope lines, or the quantity of material used for purposes other than ted.
484 485 486		he quantity of Embankment (Common Select) in place shall be the number of cubic yards (cubic asured in its final position.
480 487 488 489		he quantity of Embankment (Stockpile Excess Material) in place shall be the number of cubic c meters) measured in its final position.
489 490 491 492 493 494	meters) me	he quantity of Upper Select Subgrade to be paid for shall be the number of cubic yards (cubic asured in its original position. Measurement shall not include the quantity of materials excavated thorization beyond normal slope lines, or the quantity of material used for purposes other than ted.
495 496 497 498	meters) me	he quantity of Lower Select Subgrade to be paid for shall be the number of cubic yards (cubic asured in its original position. Measurement shall not include the quantity of materials excavated thorization beyond normal slope lines, or the quantity of material used for purposes other than ted.

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- 500 **152-3.8** The quantity of Subgrade Preparation (12") to be paid for shall be the number of square yards 501 (square meters) measured in its original position. Measurement shall not include the quantity of materials 502 excavated without authorization beyond normal slope lines.
- 504 **152-3.9** The quantity of Rock Excavation to be paid for shall be the number of cubic yards (cubic meters) 505 measured in its original position. Measurement shall not include the quantity of materials excavated without 506 authorization beyond normal slope lines, or the quantity of material used for purposes other than those 507 directed.
- 508 509

507

510 511

BASIS OF PAYMENT

- 512 152-4.1 Unclassified Excavation payment shall be made at the contract unit price per cubic yard (cubic meter).
 513 This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals
 514 necessary to complete the item.
 515
- 516 **152-4.2** For Excavation for Undercut, payment shall be made at the contract unit price per cubic yard (cubic 517 meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and 518 incidentals necessary to complete the item.
- 519

152-4.3 For Embankment (Common Fill), payment shall be made at the contract unit price per cubic yard
 (cubic meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and
 incidentals necessary to complete the item.

- 152-4.4 For Embankment (Stockpile Excess Material), payment shall be made at the contract unit price per
 cubic yard (cubic meter). This price shall be full compensation for furnishing all materials, labor, equipment,
 tools, and incidentals necessary to complete the item.
- 527
- 528 152-4.5 Upper Select Subgrade payment shall be made at the contract unit price per cubic yard (cubic meter).
 529 This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals
 530 necessary to complete the item.
- 531
- 152-4.6 Lower Select Subgrade payment shall be made at the contract unit price per cubic yard (cubic meter).
 This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals
 necessary to complete the item.
- 536 152-4.7 Subgrade Preparation (12") payment shall be made at the contract unit price per square yard (square 537 meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and 538 incidentals necessary to complete the item.
- 539
- 152-4.8 Rock Excavation payment shall be made at the contract unit price per cubic yard (cubic meter). This
 price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary
 to complete the item.
- 543
- 544
- 545
- 546

Payment will be made under: 547 548 Item P-152a 549 Unclassified Excavation - per cubic yard Item P-152b Excavation for Undercut (Less than 3') - per cubic yard 550 Embankment (Common Fill) - per cubic vard Item P-152c 551 Embankment (Stockpile Excess Material) - per cubic yard Item P-152d 552 Item P-152e Upper Select Subgrade - per cubic yard 553 Lower Select Subgrade - per cubic vard 554 Item P-152f Item P-152g Subgrade Preparation (12") - per square yard 555 Item P-152h Rock Excavation - per cubic yard 556 Item P-152i Excavation for Undercut (Greater than 3') - per cubic yard 557 558 REFERENCES 559 560 561 The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only. 562 563 564 American Association of State Highway and Transportation Officials (AASHTO) 565 566 AASHTO T-180 Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop 567 568 569 ASTM International (ASTM) 570 571 ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)) 572 573 Standard Test Method for Density and Unit Weight of Soil in Place by the 574 **ASTM D1556** Sand-Cone Method 575 576 577 ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2700 kN-m/m³)) 578 579 580 **ASTM D6938** Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) 581 582 583 Advisory Circulars (AC) 584 AC 150/5370-2 Operational Safety on Airports During Construction Software 585 586 Software 587 588 FAARFIELD - FAA Rigid and Flexible Iterative Elastic Layered Design 589 590 U.S. Department of Transportation 591 592 FAA RD-76-66 Design and Construction of Airport Pavements on Expansive Soils 593 594 595 596 **END OF ITEM P-152**

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM P-220 CEMENT TREATED SOIL BASE COURSE AC 150/5370-10H

Item P-220 Cement Treated Soil Base Course

DESCRIPTION

6 **220-1.1** This item shall consist of constructing a base course by uniformly mixing soil, cement, and water. The 7 mixed material shall be spread, shaped, and compacted in accordance with these specifications and in 8 conformity to the dimensions and typical cross-section shown on the plans. Tests shall be required for each 9 approved soil included within the treated layer.

11 Runway, taxiway, or apron pavements shall be built in a series of parallel lanes using a plan that reduces the 12 number of longitudinal and transverse joints to a minimum.

MATERIALS

220-2.1 Cement. Cement shall conform to the requirements of ASTM C150, Type I/II.

19 220-2.2 Water. Water used in mixing or curing shall be from potable water sources. Other sources shall be 20 tested in accordance with ASTM C1602 prior to use.
21

22 220-2.3 Soil. The soil for this work shall consist of the upper most 48 12 inches of select embankment as placed
 23 and paid for by P-152be Upper Select Embankment.

25 220-2.4 Asphalt material. The types, grades, controlling specifications, and application temperatures for the asphalt materials used for curing the soil-cement shall be selected from the table below. The DEN Project 27 Manager will approve the specific material used.

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BITUMINOUS MATERIAL

Trans and Crada	Specification	Application	Temperature		
Type and Grade	Specification	Degrees °F	Degrees °C		
Cutback Asphalt					
RC-70	ASTM D2028	120-160	50-70		
RC-250	ASTM D2028	160-200	70-95		
	Emul	sified Asphalt	•		
RS-1, SS-1	ASTM D977	75-130	25-55		
CRS-1	ASTM D2397	75-130	25-55		

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MIX DESIGN

34 220-3.1 Proportions. Before the start of base course construction, tests shall be made on the soil or soil-35 aggregate material to be stabilized to determine the quantity of cement required for the mix design, to provide 36 a minimum 200 psi unconfined compressive strength at 5 days.

37

Test specimens containing various amounts of cement shall be compacted per ASTM D558, and the optimum moisture determined for each test specimen. Samples at the optimum moisture shall be subjected to the wet-

40 dry and the freeze-thaw test in accordance with ASTM D559 and ASTM D560, respectively. The specimens

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- shall be tested for compressive strength in accordance with ASTM D1633. Tests are required for each approved
 soil which will be included in the treated layer.
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- 45 46

CONSTRUCTION METHODS

47 220-4.1 Control Strip. The first half-day of construction shall be considered the control strip. The Contractor 48 shall demonstrate, in the presence of the DEN Project Manager, that the materials, equipment, and construction 49 processes meet the requirements of the specification. The sequence and manner of rolling necessary to obtain 50 specified density requirements shall be determined. The maximum compacted thickness may be increased to 51 a maximum of 12 inches (300 mm) upon the Contractor's demonstration that approved equipment and 52 operations will uniformly compact the lift to the specified density. The DEN Project Manager must witness 53 this demonstration and approve the lift thickness prior to full production.

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55 Control strips that do not meet specification requirements shall be reworked, re-compacted or removed and 56 replaced at the Contractor's expense. Full operations shall not continue until the control strip has been accepted 57 by the RPR. The Contractor shall use the same equipment, materials, and construction methods for the 58 remainder of construction, unless adjustments made by the Contractor are approved by the DEN Project 59 Manager.

60

61 220-4.2 Weather limitations. The material shall not be mixed or placed while the atmospheric temperature is 62 below 40°F (4°C) or when conditions indicate that the temperature may fall below 40°F (4°C) within 24 hours, 63 or when the weather is foggy or rainy, or to soils that are frozen or contain frost, or when the underlying 64 material is frozen. 65

66 **220-4.3 Maintenance.** The material shall be maintained in a condition that will meet all specification 67 requirements. When material has been exposed to excessive rain, snow, or freeze-thaw conditions, prior to 68 placement of additional material, the Contractor shall verify that materials still meet all specification 69 requirements. Equipment may be routed over completed sections of base course, provided that no damage 70 results and the equipment is routed over the full width of the completed base course. Any damage resulting to 71 the base course from routing equipment over the base course shall be repaired by the Contractor at their 72 expense. 73

74 220-4.4 Equipment. The course may be constructed with any equipment that will meet the requirements for 75 soil pulverization, cement application, mixing, water application, incorporation of materials, compaction, 76 finishing, and curing specified here.

78 220-4.5 Preparation. The area to be stabilized shall be graded and shaped to conform to the lines, grades and cross-section shown on the plans. Any soft or yielding areas in the subgrade shall be removed and replaced with acceptable soil and compacted to the specified density.

220-4.6 Pulverization. After completion of moist-mixing, the soil for the base course shall be pulverized so
that 100% by dry weight passes a 1-inch (25.0 mm) sieve and a minimum of 80% passes a No. 4 (4.75 mm)
sieve.

220-4.7 Cement application, mixing, and finishing. Mixing of the soil, cement, and water shall be
 accomplished by one of the following methods to be approved by the DEN Project Manager.

89 **a.** Mix in Place Method. Shape pulverized material to the cross-section indicated. Cement shall be applied so that when uniformly mixed with the soil, the specified cement content is obtained, and

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM P-220 CEMENT TREATED SOIL BASE COURSE AC 150/5370-10H

a sufficient quantity of cement-treated soil is produced to construct a compacted cement-treated 91 92 course conforming to the lines, grades, and cross-section indicated. Immediately after the cement 93 has been distributed, it shall be mixed with the soil. The cement shall not be mixed below the 94 required depth. Continue mixing until the cement has been sufficiently blended with the soil to 95 prevent the formation of cement balls when water is applied. Determine moisture content of the 96 mixture immediately after completion of mixing of the soil and cement. Provide water supply and 97 pressure distributing equipment that will permit the application within three (3) hours of all mixing 98 water on the section being processed. Incorporate water in the mix so that concentration of water 99 near the surface does not occur. After all mixing water has been applied, continue mixing until the water is uniformly distributed throughout the full depth of the mixture. Do not apply cement if 100 the soil moisture content exceeds the optimum moisture content specified for the cement-treated 101 102 mixture. After mixing is complete, the proportions of the mixture shall be in accordance with the approved mix design. 103 104 105 b. Central Plant Mix Method. Cement application, mixing, and spreading. Mixing of the soil, cement, 106 and water shall be accomplished by the central-plant-mixed method. The soil, cement, and water 107 shall be mixed in either a batch or continuous-flow type pugmill. The plant shall be equipped with 108 feeding and metering devices that will add the soil, cement, and water into the mixer in the specified 109 quantities. Soil and cement shall be mixed sufficiently to prevent cement balls from forming when water is added. Mixing shall continue until a uniform mixture of soil, cement, and water is obtained. 110 111 112 The mixture shall be hauled to the project in trucks equipped with protective covers. The mixture shall be placed on the moistened subgrade in a uniform layer by an approved spreader. Not more 113 114 than 30 minutes shall elapse between the placement of soil-cement in adjacent lanes. 115 116 The layer of soil-cement shall be uniform in thickness and surface contour and of sufficient 117 quantity that the completed base conforms to the required line, grade and cross-section. Dumping of the mixture in piles or windrows on the subgrade shall not be permitted. 118 119 120 Not more than 60 minutes shall elapse between the start of moist mixing and the start of 121 compaction of soil-cement. 122 123 220-4.8 Compaction. Compaction of the course shall begin within 30 minutes after mixing the cement into 124 the subgrade. All compaction operations shall be completed within 2 hours from the start of mixing. 125 126 The field density of the compacted mixture shall be at least 98% of the maximum density as determined by 127 ASTM D558. The in-place moisture content shall be determined in accordance with ASTM D2216. The 128 moisture content of the mixture at the start of compaction shall be within ± 2 percentage points of the optimum 129 moisture content. Maximum density refers to maximum dry density at optimum moisture content unless 130 otherwise specified. 131 132 220-4.9 Finishing and curing. After the final lift or course of treated subgrade has been compacted, it shall 133 be brought to the required lines and grades in accordance with the typical sections. 134 135 Finished portions of treated subgrade shall be protected to prevent equipment from marring, permanently deforming, or damaging completed work. 136 137 138 Not later than 24 hours after completion of final finishing, the surface shall be cured by application of an 139 emulsified asphalt uniformly applied to the surface of the completed base course at the rate of approximately

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- 0.2 gallons per square yard (0.91 l/m²). The curing material shall be maintained and applied as needed by the
 Contractor during the 7-day protection period.
- 142
- 143 Sufficient protection from freezing shall be provided for at least 7 days after its construction or as approved by 144 the DEN Project Manager.
- 145

146 220-4.10 Construction limitations. At the end of each day's construction and/or when operations after 147 application of the cement are interrupted for more than 30 minutes, a straight transverse construction joint 148 shall be formed by a header or by cutting back into the compacted material to form a true vertical face.

- 149 Completed portions may be opened to light traffic, if approved by the DEN Project Manager, and provided 150 the curing is not impaired.
- 151

152 220-4.11 Surface tolerance. In those areas on which a subbase or base course is to be placed, the surface shall 153 be tested for smoothness and accuracy of grade and crown. Any portion lacking the required smoothness or 154 failing in accuracy of grade or crown shall be scarified to a depth of at least 3 inches (75 mm), reshaped and re-155 compacted to grade until the required smoothness and accuracy are obtained and approved by the DEN Project 156 Manager. The Contractor shall perform all final smoothness and grade checks in the presence of the DEN 157 Project Manager. Any deviation in surface tolerances shall be corrected by the Contractor at the Contractor's 158 expense.

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- a. Smoothness. The finished surface shall not vary more than +/- 3/8 inch (9 mm) when tested with a 12-foot (3.7-m) straightedge applied parallel with and at right angles to the centerline. The straightedge shall be moved continuously forward at half the length of the 12-foot (3.7-m) straightedge for the full length of each line on a 50-foot (15-m) grid.
 - **b.** Grade. The grade and crown shall be measured on a 50-foot (15-m) grid and shall be within +/-0.05 feet (15 mm) of the specified grade.

168 220-4.12 Acceptance sampling and testing. Cement Treated Solid Base course shall be accepted for density 169 and thickness on an area basis. Two test will be made for density and thickness for each 1200 square yards 170 (1000 square meters), but not less than four (4) tests per day of production. Sampling locations will be 171 determined on a random basis per ASTM D3665.

a. Density. The DEN Project Manager shall perform all density tests.

175 Each area shall be accepted for density when the field density is at least 100% of the maximum density of laboratory specimens compacted and tested per ASTM D558. The in-place field density 176 shall be determined per ASTM D1556 or ASTM D6938 using Procedure A, the direct transmission 177 178 method, and ASTM D6938 shall be used to determine the moisture content of the material. The 179 machine shall be calibrated in accordance with ASTM D6938. The in-place moisture content shall be determined in accordance with ASTM D2216. Perform in-place density test immediately after 180 181 completion of compaction to determine degree of compaction. Maximum density refers to maximum dry density at optimum moisture content unless otherwise specified. If the specified 182 density is not attained, the area represented by the failed test must be reworked and/or 183 recompacted at the Contractor's expense and two additional random tests made. This procedure 184 shall be followed until the specified density is reached. Maximum density refers to maximum dry 185 density at optimum moisture content unless otherwise specified. 186

b. Thickness. Depth tests shall be made by test holes or cores at least 3 inches (75 mm) in diameter that extend through the base. The thickness of the base course shall be within +0 and -1/2 inch

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190 191 102		ecified thickness as determined by depth tests taken by the Contractor in the EN Project Manager for each sublot.
192	Thiskness message	ments may be determined by symposif allowed by the DEN Duciest Manager
193 194		ements may be determined by survey if allowed by the DEN Project Manager. nents are used, the contractor shall provide survey prior to placement and after
195	2	5-foot (7.5 m) by 25-foot (7.5 m) survey grid.
196		
197 198 199		ss is deficient by more than 1/2-inch (12 mm), the material shall be removed to aced, at Contractor's expense.
200 201 202		METHOD OF MEASUREMENT
202 203 204 205	220-5.1 The quantity of cement completed and accepted base of	t treated soil base course shall be the number of square yards (square meter) of ourse.
206 207		t shall not be measured or paid for separately but will be considered incidental this item shall be considered subsidiary to other items of work. Cement shall
208 209 210	be measured by the ton (kg).	
211 212		BASIS OF PAYMENT
214 215 216 217 218 219 220 221 222 223	preparation, delivering, placing incidentals necessary to comple 220-6.2 Payment shall be made to the project. No payment sha	at the contract unit price per ton (kg) for Cement-shall be considered incidental Il be made for cement. This price shall be full compensation for furnishing this cing, and incorporation of this material, and for all labor, equipment, tools, and
223 224 225	Payment will be made under:	
226	Item P-220a	Cement Treated Soil Base Course - per square yard (square meter)
227 228	Item P-220b	Cement - per ton (kg)
229		DEEDENICEO
230 231		REFERENCES
232 233 234	The publications listed below freferred to within the text by the	form a part of this specification to the extent referenced. The publications are he basic designation only.
235 236	ASTM International (ASTM)	
230 237 238 239	ASTM C136	Standard Test Method for Sieve or Screen Analysis of Fine and Coarse Aggregates

DI	CHNICAL SPECIFICATION VISION 2-AIRFIELD STANI EM P-220 CEMENT TREATE	DARDS TAXIWAY EE GRADING, DRAINAG
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0 1	ASTM C150	Standard Specification for Portland Cement
-2 -3 -4	ASTM C1602	Standard Specification for Mixing Water Used in the Production of Hydrau Cement Concrete
-5 -6 -7	ASTM C1632	Standard Practice for Making and Curing Soil-Cement Compression a Flexure Test Specimens in the Laboratory1
	ASTM C1633	Standard Test Methods for Compressive Strength of Molded Soil-Ceme Cylinders
51 52 53	ASTM D558	Standard Test Methods for Moisture-Density (Unit Weight) Relations of Se Cement Mixtures
54 55 56	ASTM D559	Standard Test Methods for Wetting and Drying Compacted Soil-Ceme Mixtures
57 58 59	ASTM D560	Standard Test Methods for Freezing and Thawing Compacted Soil-Ceme Mixtures
50 51	ASTM D977	Standard Specification for Emulsified Asphalt
52 53 54	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil In-Place by t Sand Cone Method
5 66	ASTM D2027	Standard Specification for Cutback Asphalt (Medium-Curing Type)
57 58	ASTM D2028	Standard Specification for Cutback Asphalt (Rapid-Curing Type)
59 70	ASTM D2397	Standard Specification for Cationic Emulsified Asphalt
71 72 73	ASTM D2487	Standard Practice for Classification of Soils for Engineering Purpor (Unified Soil Classification System)
74 75 76	ASTM D6938	Standard Test Method for In-Place Density and Water Content of Soil a Soil-Aggregate by Nuclear Methods (Shallow Depth)
7 7 78 79		**END OF ITEM P-220**

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM D-751 MANHOLES, CATCH BASINS, AND INSPECTION HOLES AC 150/5370-10H

1 2]	Item D-751 Manholes, Catch Basins, Inlets and Inspection Holes
3		
4		DESCRIPTION
5 6 7 8 9	accordance	his item shall consist of construction of manholes, catch basins, inlets, and inspection holes, in e with these specifications, at the specified locations and conforming to the lines, grades, and s shown on the plans or required by the DEN Project Manager.
10 11		MATERIALS
12 13 14 15		ORTAR. Mortar shall consist of one part Portland cement and two parts sand. The cement shall o the requirements of ASTM C150, Type I. The sand shall conform to the requirements of ASTM
16 17 18 19		DNCRETE. Plain and reinforced concrete used in structures, connections of pipes with structures, pport of structures or frames shall conform to the requirements of Item P-610.
 20 21 22 23 24 25 	conform t shall have be a gaske	RECAST CONCRETE PIPE MANHOLE RINGS. Precast concrete pipe manhole rings shall o the requirements of ASTM C478. Unless otherwise specified, the risers and offset cone sections an inside diameter of not less than 36 inches (90 cm) nor more than 48 inches (120 cm). There shall et between individual sections and sections cemented together with mortar on the inside of the Gaskets shall conform to the requirements of ASTM C443.
25 26 27 28	751-2.4 F	RAMES, COVERS, AND GRATES. The castings shall conform to one of the following nts:
20 29 30	a.	ASTM A48, Class 35B: Gray iron castings
30 31 32	b.	ASTM A47: Malleable iron castings
33 34	с.	ASTM A27: Steel castings
35 36	d.	ASTM A283, Grade D: Structural steel for grates and frames
37 38	e.	ASTM A536, Grade 65-45-12: Ductile iron castings
39 40	f.	ASTM A897: Austempered ductile iron castings
41 42 43		s or structural steel units shall conform to the dimensions shown on the plans and shall be designed the loadings, aircraft gear configuration and/or direct loading, specified.
44 45		e and cover or grate unit shall be provided with fastening members to prevent it from being dislodged out which will allow easy removal for access to the structure.
46 47	All casting	s shall be thoroughly cleaned. After fabrication, structural steel units shall be galvanized to meet the

48 requirements of ASTM A123.

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DIVISI	IICAL SPECIFICATIONS DENVER INTERNATIONAL AIRPORT ON 2-AIRFIELD STANDARDS TAXIWAY EE GRADING, DRAINAGE
	-751 MANHOLES, CATCH BASINS, AND INSPECTION HOLES PAVING, AND LIGHTING '5370-10H CONSTRUCTION CONTRACT NO. 202158849
be the	STEPS. The steps or ladder bars shall be gray or malleable cast iron or galvanized steel. The steps shal size, length, and shape shown on the plans and those steps that are not galvanized shall be given a coa halt paint, when directed.
751-2. C913.	5 PRECAST INLET STRUCTURES. Manufactured in accordance with and conforming to ASTM
751-2.7	REINFORCING STEEL. All reinforcing steel shall conform to ASTM A615, Grade 60.
	CONSTRUCTION METHODS
751-3.1	UNCLASSIFED EXCAVATION.
:	a. The Contractor shall excavate for structures and footings to the lines and grades or elevations shown on the plans, or as staked by the DEN Project Manager. The excavation shall be or sufficient size to permit the placing of the full width and length of the structure or structure footings shown. The elevations of the bottoms of footings, as shown on the plans, shall be considered as approximately only; and the DEN Project Manager may direct, in writing, changer in dimensions or elevations of footings necessary for a satisfactory foundation.
I	b. Boulders, logs, or any other objectionable material encountered in excavation shall be removed All rock or other hard foundation material shall be cleaned of all loose material and cut to a firm surface either level, stepped, or serrated, as directed by the DEN Project Manager. All seams or crevices shall be cleaned out and grouted. All loose and disintegrated rock and thin strata shall be removed. Where concrete will rest on a surface other than rock, the bottom of the excavation shall not be disturbed and excavation to final grade shall not be made until immediately before the concrete or reinforcing is placed.
	The Contractor shall do all bracing, sheathing, or shoring necessary to implement and protect the excavation and the structure as required for safety or conformance to governing laws. The cost o bracing, sheathing, or shoring shall be included in the unit price bid for the structure.
	1. All bracing, sheathing, or shoring involved in the construction of this item shall be removed by the Contractor after the completion of the structure. Removal shall not disturb or damage finished masonry. The cost of removal shall be included in the unit price bid for the structure.
	e. After excavation is completed for each structure, the Contractor shall notify the DEN Projec Manager. No concrete or reinforcing steel shall be placed until the DEN Project Manager has approved the depth of the excavation and the character of the foundation material.
bound plans. areas a below Embar placed constru	CONCRETE STRUCTURES. Concrete structures which are to be cast-in-place within the project aries shall be built on prepared foundations, conforming to the dimensions and shape indicated on the When claystone (undisturbed natural or fill) is encountered in the base of the excavation within paved is determined by the DEN Project Manager, the material shall be over-excavated to a depth of 3 feet and 3 feet beyond the sides of the base of the structure. The over-excavation shall be replaced with Select adment material meeting the requirements for Item P-152. The Select Embankment material shall be in 8 inch thick loose lifts, moisture conditioned and compacted to the requirements of Item P-152. The term of the requirements specified in Item P-610. Any reinforcement required shall be
placed placed	as indicated on the plans and shall be approved by the DEN Project Manager before the concrete is

TECHNICAL SPECIFICATIONSDDIVISION 2-AIRFIELD STANDARDST.ITEM D-751 MANHOLES, CATCH BASINS, AND INSPECTION HOLESCONSTIAC 150/5370-10HCONSTI

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- 102 All invert channels shall be constructed and shaped accurately to be smooth, uniform, and cause minimum 103 resistance to flowing water. The interior bottom shall be sloped to the outlet.
- 751-3.3 PRECAST CONCRETE STRUCTURES. Precast concrete structures shall be furnished by a plant
 meeting National Precast Concrete Association Plant Certification Program or another DEN Project Manager
 approved third party certification program.
- 108
- Precast concrete structures shall conform to ASTM C478. Precast concrete structures shall be constructed on 109 110 prepared or previously placed slab foundations conforming to the dimensions and locations shown on the plans. All precast concrete sections necessary to build a completed structure shall be furnished. The different 111 sections shall fit together readily. Joints between precast concrete risers and tops shall be full-bedded in cement 112 113 mortar and shall: (1) be smoothed to a uniform surface on both interior and exterior of the structure or (2) utilize a rubber gasket per ASTM C443. The top of the upper precast concrete section shall be suitably formed 114 115 and dimensioned to receive the metal frame and cover or grate, or other cap, as required. Provision shall be 116 made for any connections for lateral pipe, including drops and leads that may be installed in the structure. The 117 flow lines shall be smooth, uniform, and cause minimum resistance to flow. The metal or metal encapsulated steps that are embedded or built into the side walls shall be aligned and placed in accordance to ASTM C478. 118
- 119 When a metal ladder replaces the steps, it shall be securely fastened into position.
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When required by the DEN Project Manager, the precast manufacturer shall provide detailed structural analysis of the structure being provided that considers the live and dead loads exposed to the structure. The analysis shall be signed and sealed by an engineer registered in the state of installation normally performing structural engineering.

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126 **751-3.4 INLET AND OUTLET PIPES.** Inlet and outlet pipes shall extend through the walls of the 127 structures a sufficient distance beyond the outside surface to allow for connections. They shall be cut off flush 128 with the wall on the inside surface of the structure, unless otherwise directed. For concrete or brick structures, 129 mortar shall be placed around these pipes to form a tight, neat connection.

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751-3.5 PLACEMENT AND TREATMENT OF CASTINGS, FRAMES, AND FITTINGS. All castings, frames, and fittings shall be placed in the positions indicated on the plans or as directed by the DEN Project Manager, and shall be set true to line and elevation. If frames or fittings are to be set in concrete or cement mortar, all anchors or bolts shall be in place before the concrete or mortar is placed. The unit shall not be disturbed until the mortar or concrete has set.

- When frames or fittings are placed on previously constructed masonry, the bearing surface of the masonry shall be brought true to line and grade and shall present an even bearing surface so the entire face or back of the unit will come in contact with the masonry. The unit shall be set in mortar beds and anchored to the masonry as indicated on the plans or as directed by the DEN Project Manager. All units shall set firm and secure.
- 141
- After the frames or fittings have been set in final position, the concrete or mortar shall be allowed to harden
 for seven (7) days before the grates or covers are placed and fastened down.
- 751-3.6 INSTALLATION OF STEPS. The steps shall be installed as indicated on the plans or as directed by the DEN Project Manager. When the steps are to be set in concrete, they shall be placed and secured in position before the concrete is placed. When the steps are installed in brick masonry, they shall be placed as the masonry is being built. The steps shall not be disturbed or used until the concrete or mortar has hardened for at least seven (7) days. After seven (7) days, the steps shall be cleaned and painted, unless they have been galvanized.
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TECHNICAL SPECIFICATIONS	DENVER INTERNATIONAL AIRPORT
DIVISION 2-AIRFIELD STANDARDS	TAXIWAY EE GRADING, DRAINAGE,
ITEM D-751 MANHOLES, CATCH BASINS, AND INSPECTION HOLES	PAVING, AND LIGHTING
AC 150/5370-10H	CONSTRUCTION CONTRACT NO. 202158849

- 152 When steps are required with precast concrete structures they shall meet the requirements of ASTM C478. The
- steps shall be cast into the side of the sections at the time the sections are manufactured or set in place after
- 154 the structure is erected by drilling holes in the concrete and cementing the steps in place.
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156 When steps are required with corrugated metal structures, they shall be welded into aligned position at a vertical 157 spacing of 12 inches (300 mm).

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Instead of steps, prefabricated ladders may be installed. For concrete structures, the ladder shall be held in placeby grouting the supports in drilled holes.

162 **751-3.7 BACKFILLING.**

- 164 a. After a structure has been completed, the area around structures outside the paved areas shall be backfilled with approved native material, in horizontal layers not to exceed 8 inches (200 mm) in 165 loose depth, and compacted to the density required in Item P-152. Each layer shall be deposited 166 evenly around the structure to approximately the same elevation. The top of the fill shall meet the 167 elevation shown on the plans or as directed by the DEN Project Manager. Structures inside paved 168 areas shall be backfilled with Controlled Low Strength Material (CLSM) material meeting the 169 requirements of P-153. The CLSM shall be placed to the elevation of the bottom of the Cement 170 171 Treated Base layer of the pavement section.
- b. Backfill shall not be placed against any structure until approved by the DEN Project Manager. For
 concrete structures, approval shall not be given until the concrete has been in place seven (7) days,
 or until tests establish that the concrete has attained 75% of the design strength to withstand any
 pressure created by the backfill and placing methods.
 - **c.** Backfill shall not be measured for direct payment. Performance of this work shall be considered an obligation of the Contractor covered under the contract unit price for the structure involved.

181 **751-3.8 CLEANING AND RESTORATION OF SITE.** After the backfill is completed, the Contractor 182 shall dispose of all surplus material, dirt, and rubbish from the site. Surplus dirt may be deposited in 183 embankments, shoulders, or as approved by the DEN Project Manager. The Contractor shall restore all 184 disturbed areas to their original condition. The Contractor shall remove all tools and equipment, leaving the 185 entire site free, clear, and in good condition.

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751-3.9 QUALITY ASSURANCE/QUALITY CONTROL.

- 189a.Qualifications. The Contractor shall meet the same qualifications for precast pipe structures as190are identified in Item D-701 and shall impose all qualifications on its pipe manufacturer. Should191the Contractor elect to cast-in-place junction structures, the Contractor shall be able to192demonstrate experience with similar structures.
 - **b.** Tests. Tests for precast concrete pipe structures (including pipe joints) shall have imposed the same tests as for precast pipe in Item D-701. Refer to Item P-610 for cast-in-place concrete test requirements. All backfill material shall be tested for compaction in accordance with Items D-701 and P-152.
- 199c.Inspections. Inspection for precast concrete pipe structures shall follow inspection procedures200identified in Item D-701 for precast pipe and those of Item P-152 for excavation. Inspection for201cast-in-place concrete structures shall follow Item P-610.202202

TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDARDS ITEM D-751 MANHOLES, CATCH BASINS, AND INSPECTION HOLES AC 150/5370-10H

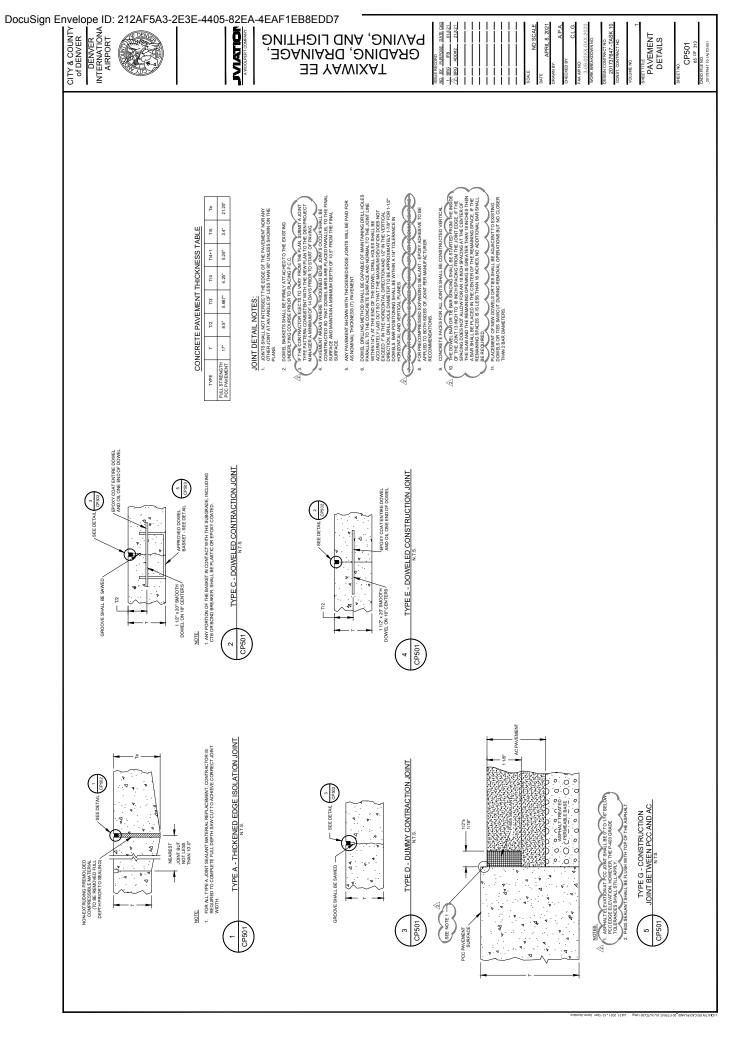
d	l. S	ıbmittals.	
	(1) Materials. M	aterials shall be submitted in accordance with Items P-610 and D-701.
	(2	Contractor sh to the specif drawings, and proceeding w	Drawings. If the Contractor elects to use an alternative pipe, then the nall design or cause the pipe manufacturer to design all precast pipe structures ied criteria. The Contractor shall submit support calculations, installation d detail drawings for review and approval by the Project Manager prior to ith fabrication of structures. Calculations, drawings, and details shall be sealed a Professional Engineer currently registered in the State of Colorado.
		concrete strue	Contractor elect to substitute and construct precast and/or cast-in-place ctures, the Contractor shall submit full designs and details, as above, sealed and rofessional Engineer currently registered in the State of Colorado."
			METHOD OF MEASUREMENT
751-4.1	Manho	oles, catch basins,	inlets, and inspection holes shall be measured by the unit.
			BASIS OF PAYMENT
materia of such	ls and f specia	or all preparation, ls and connectior	lace when completed. This price shall be full compensation for furnishing all excavation, backfilling and placing of the materials; furnishing and installation is to pipes and other structures as may be required to complete the item as abor equipment, tools and incidentals necessary to complete the structure.
Paymer	nt will b	e made under:	
	Item I Item I Item I Item I Item I	D-751a D-751b D-751c D-751d D-751e D-751f D-751g D-751h	Install New Triple Type II Inlet Structure - per each Install New Double Type II Inlet Structure - per each Install Oversized Triple Type II Inlet New 36"x48" Inlet - per each Install Airfield Manhole - per each Install Type B Manhole – per each Install Type P Manhole – per each Convert Remove Existing Inlet to Manhole – per each Install Underdrain Manholes – per each
	Item]	D-751i	Tie To Existing Structure – per each
			REFERENCES
			orm a part of this specification to the extent referenced. The publications are basic designation only.
ASTM	Interna	tional (ASTM)	
	ASTN	I A27	Standard Specification for Steel Castings, Carbon, for General Application

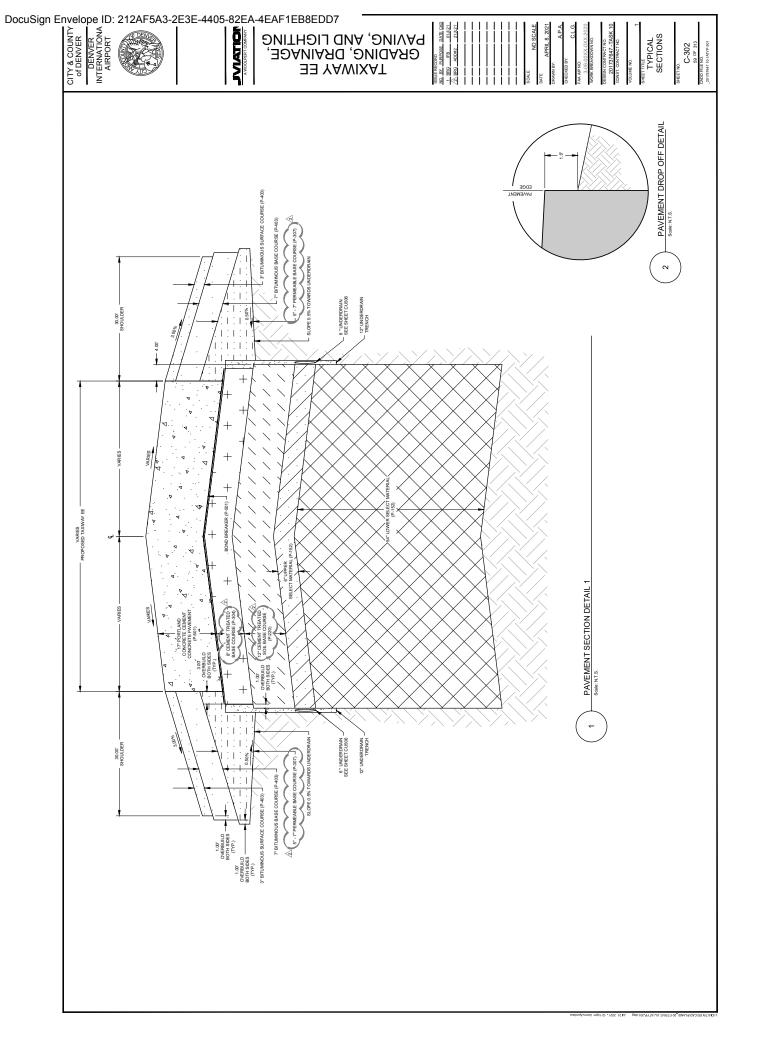
	TECHNICAL SPECIFICATIONS DIVISION 2-AIRFIELD STANDA ITEM D-751 MANHOLES, CATCH AC 150/5370-10H	DENVER INTERNATIONAL AIRPORT RDS TAXIWAY EE GRADING, DRAINAGE, I BASINS, AND INSPECTION HOLES PAVING, AND LIGHTING CONSTRUCTION CONTRACT NO. 202158849
051		
254 255 256	ASTM A47	Standard Specification for Ferritic Malleable Iron Castings
257 258	ASTM A48	Standard Specification for Gray Iron Castings
259 260 261	ASTM A123	Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
262 263 264	ASTM A283	Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates
265 266	ASTM A536	Standard Specification for Ductile Iron Castings
267 268	ASTM A897	Standard Specification for Austempered Ductile Iron Castings
269 270 271	ASTM C32	Standard Specification for Sewer and Manhole Brick (Made from Clay or Shale)
271 272 273	ASTM C144	Standard Specification for Aggregate for Masonry Mortar
273 274 275	ASTM C150	Standard Specification for Portland Cement
276 277 278	ASTM C443	Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets.
279 280	ASTM C478	Standard Specification for Precast Reinforced Concrete Manhole Sections
281 282 283 284	ASTM C913	Standard Specification for Precast Concrete Water and Wastewater Structures.
285 286	American Association of State	Highway and Transportation Officials (AASHTO)
287 288 289	AASHTO M36	Standard Specification for Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains
290 291 292		**END OF ITEM D-751**

	SUMMARY OF APPROXIMATE QUANTITIES	TITIES		-		NOTES:	of DENVER
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE	IE I	SCHEDULE II	SEE DIVISION I SELIDIVIDUAL VIISION ZUNIS ZUIS PECHEANUN HUNBELANUN HUNBANIDN. SEE DIVISION I SELIDIVIDUAL VIISION ZUNIS ZURISEE BULLING MITHFOUNDANTON, APORTABE FIDLEF, POST MOURTED COMEXMIRROR, PORTABLE GENERATOR, A	
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013223a	CONSTRUCTION AS BUILT SURVEY	rs	-		0	FACILITIES/AVAIDS WITHIN AND NEAR THE PROJECT LIMITS.	
015050a	TEXTURA SOFTWARE FEE	rn LS	1 00 CC		0 0	4. PAY TERN DR3581 TRAFFIC DONTROL SHALL MELLULE FLUL MALLUE FLUL DR310 SHALL MARKING RESETTING REARING REPARKING	
015525b	CATE GUARD	££	17,360				SA C
015525c	GATE GUARD SHACK	rs	-		0	5. OUMTITES ROPAVIT TERINO SCIPARE UNDER NOLUCE ALL BARYE RECESSAVE UNDER COSPRISATION DNEET THE STATE AND CITY STORMANTER RECORRENANTS AND ARET THE SOLE REGPORABILITY OF THE CONTRICTS AND REAL RECEIVED. TO THE THE RESTATE AND REAL THE STATE AND CITY STORMANTER RECORRENANTS AND ARET THE SOLE REGPORABILITY OF THE CONTRICTS AND REAL RECEIVED.	3-:
015525d	TRAFFIC CONTROL	rs	-		0	 THE INSPECTION. MANTEMANCE. AND REPARINCE BARS ARE INCIDENTAL TO PAY TEM 05/19. TEMPORARY BROSION CONTROL AND ARE THE SOLE RESONBILITY OF THE 	2E
015719a P-101a	TEMPORARY EROSION CONTROL REMOVE PORTI AND CEMENT CONCRETE PAVEMENT (NON-REINFORCED. 17")	s s	2 484		0 0		38
P-101b	REMOVE PORTLAND CEMENT CONCRETE PAVEMENT (REINFORCED, 17")	s,	425		0	 AL APRICEAMAGE SAGONATE WITH FIRE RADOVAL OF THE ASSOCIATED WORK ITEMS WILL NOT BE MEASURED SEPARATELY BUT WILL BE CONSIDERED INCIDENTIAL TO THE REMOVAL OF THE CORRESPONDING WORK ITEM. 	<u>=</u> -4
P-101c	REMOVE PORTLAND CEMENT CONCRETE PAVEMENT (NON-REINFORCED, 21")	SY	143		0	a. ALL PROFER DISPOSAL OF REMOVAL ITEMS ARE INCIDENTAL TO ASSOCIATED PAY ITEMS.	14)
P-101d	FULL DEPTH ASPHALT PAVEMENT REMOVAL	ي ع	16,551		0		05
P-1016	PARTIAL DEPTH ASPTALT PAVEMENT KEMOVAL REMOVE PERMEABLE BASE COURSE	AS AS	158 17.862		o c		
P-101g	REMOVE CEMENT TREATED BASE COURSE	is AS	1,877			10. ALL SHALT REMOVED ON THIS PROJECT WILL BE COMPLETED THROUGH MILLING AND THE TAILINGS WILL BE STOCKPILED AT THE NORTH RECYCLE VARD OR AS DIRECTED BY THE TRUE NORTH REVIEW MANAGER	
P-101h	REMOVE CEMENT TREATED SUBGRADE	SY	2,356		0	 Control of the second seco	A WOOLPERT COMPANY
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P-159a	NCRETE CRUSHING	TON	2,950		0	FEOURED DAWTTY FOR URE AS LOWER ELCY SUBJOACE MATERIAL IN A LOCATION AND HEIGHT ACCEPTABLE TO THE DEN PROJECT MANAGER, AND PLACING AND COMPACTING STOCKHED MATERIAL PER FILE SPECIATION FOR LOWER SEET CONSTRANCE AND PLACING AND COMPACTING	
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P-220b	CEMENT CEMENT TREATED BASE COURSE	TON SY	1,500 63.897		0 0) 1C 1C
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P-501c	CEMENT CONCRETE PAVEMENT (NON REINFORCED, 21")	۶۶	6,523		0		
P-501d	CEMENT CONCRETE PAVEMENT (REINFORCED, 21")	۶	1,965		0		1 BRG FB
P-5016 P-501f	BOND BREAKER FABRIC PAVEMENT SPALL REPAIR	às às	02,308		0 0		GER. (4) 000 000 000 000 000 000 000 000 000 0
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P-620b	PAVEMENT MARKINGS, METACRYLATE	R -	3,075		0 0	24 BASE CANINSTALLATION ITEMS (L-123) THROUGH (-1236) SHALL INCLUDE INSTALLATION OF CONDUIT WITHIN THE BASE CAN CONCRETE ANCHOR AREA, INSTALLATION OF REBAR CAGE	GE
P-620d	STOP SIGN	E	2				
P-620e	TYPE I ROADWAY DELINEATOR	EA	36		0	25 ALL CONDUTAND UCT BANK N87ALLATION PAY TEMS (+110a THROUGH (+110d) SHALL INCLUDE THE INSTALLATION OF NEW #6.AWG. BARE CORPER, COUNTERPOSE CONDUCTOR, AS REVOWN DETAILS	AS
D-701a	INSTALL 24" CLASS V RCP	5	3,366		0 0	28. THE QUANTITY OF PAY TEM P-208 WAS CALCULATED USING 5.5% CEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MIX DESIGNS FOR CEMENT TREATED SOL	ASE
	INSTALL 38" CLASS V RCP	5 5	267			CONSE THAT WY VARY FOR THIS INVIRUE IF THE APPORED MAED DESIDES WARY FROM THE ASSUMPTION THE AMOUNT OF MAED RESIDENT OF A POR AM ODDIONAL 05% OF CARNET (MAIMAN) 544.L BE ADDEDTOTINE HYLLIE OF MAED FROM THE MAY REBIGN TO ACCOUNT FOR THE LOSS OF CENERT IN THAT AND THE APPORTURE MAED DATA AND ODTIONAL 05% OF CARNET (MAIMAN) 544.L BE ADDEDTOTINE HYLLIE OF MAED FROM THE MAY REPORT TO A COUNT FOR THE LOSS OF CENERT IN THAT AND T	-
	INSTALL 48" CLASS V RCP	Ŀ	2,870		0	27. THE CONTRACTOR SHALL BFORTS TO MINIMAZE THE TOTA, AREA MEACTED IN BORROW AREAS WITHIN REASON A DEEPER CUT LESS THAN 20 FEET OVER A SMALLER AREA	
	INSTALL 24 FES	EA	2		0 0		DRAWN BY:
D-7019	REMOVE SURCP	5 5	97		0	2. THE CONTRICTOR STORY STATE STATE AND STATE OF DELAGRAMM IN StatUS STATE	CHECKED BY:
	INSTALL 6" UNDERDRAIN (PERFORATED PVC)	L	10,485		0	36 Traditional and a factor f	FAA AIP NO:
	INSTALL & UNDERDRAIN (NON-PERFORATED PVC) REPAIR DAMAGED UNDERDRAIN PIPE	5	2,510		0 0		3-08-00XX-0XX-2020 WORK BREAKDOWN NO.
D-705d	INSTALL UNDERDRAIN CLEANOUTS	EA	80		0	30. ITEM L-160e - GERENTOR TO BE ONSITE FOR DURATION OF XGEL LINE 01, 02, AND 03 WORK (SEE SHEET E-700), FOR BIDDING PURPOSES, ASSUME A DURATION OF 30 DAYS FOR THIS WORK	
	REMOVE UNDERDRAN PIPE	5	4,092		0	31. ITBM L-IK01 - GENERATOR TO BE ONSITE FOR DURATION OF XCEL LINE 01, 02, 03, AND 04 WORK (SEE SHEEFT E-7/00), FOR BIDDING PURPOSES ASSUME A DURATION OF 40 DAYS FOR THIS	201737647 -TASK 10
D-710a	REMOVE DIVIDENTARY CLEANOUS GROUTED TYPE "M" RIPRAP	5 ≿	- 5				
	REMOVE AND STOCKPILE EXISTING TYPE "VH" RIPRAP	СY	230		0	 TEM. Fize, PERR SIEECE TBANAMERINE MALLORS SLAT YO BECANTE. TRANSPORT, MAD HALES 0.1, IPPER SELECT BANAMERINE THAN RULUDS SLAT MALLORS ALL MARCHAN FIZE ALL MARCHAN STOCKPLIKA, AND ANY OTHER OPERIC STOCKPLIKA, AND ANY OTHER OPERICATION RECESSARY TO PERLANGE THE UPPERLOSS T. SLOVES OF UPPER SLEECE TBANAMERIA FIZE OF BANAMERIA THAN RULUDS SLAT TO PERLANGE THE UPPERLOSS T. SLOVES OF UPPER SLEECE TBANAMERIA FIZE OF BANAMERIA THAN RULUDS SLAT TO RELICE FIZE MARAMERIA FIZE OF UPPER SLEECE TBANAMERIA FIZE OF BANAMERIA FIZE DE BANAMERIA FIZE OF BANAMERIA FIZE OF BANAMERIA FIZE DE BANAMERIA FIZE DANA FIZE DE BANAMERIA FIZE FIZE DANA FIZE DE BANAMERIA FIZE FIZE DE BANAMERIA FIZE FIZE FIZE FIZE DE BANAMERIA FIZE FIZE FIZE FIZE FIZE FIZE FIZE FIZE	ES VOLUME NO.
D-7106	GROUTED TYPE "VH" RIPRAP (FROM ON-SITE STOCKPILE) GROUTED TYPE "VH" RIPRAP (NEW)	5 2	230		0 0	3. WORK FOR ITEM P-2204 - CEMENT TREATED SOLL BASE COURSE INCLUDES THE WORK RECESSARY FOR CEMENT TREATING THE UPPERIOST 72 INVERS OF THE UPPER SELECT	SHEET TITLE
	formula income and an end	5	- P-			a the contraction out in some processing is contracting to contract the processing in the contraction of	
bAlqmaT		((THE CONTROL STATE TREASMILES TO ADDREED AN ASID STATE MAY THE TREASMIN AND ADDRESS AND	QUANTITIES (1 OF
VEDERO							
b uoz-		Ľ	KEISSUE ENTINE SHEET			8. THE CONTRATIONE BALL INSTRUCT AN DOVELED FROM ONSITE EXCANNED SEE IT FILE GOOD REEKENS OF PLACE PRORTY OF COOPELING. ANY COSTS ASSOCIED WITH ADDITIONAL GENERATION REFERSAMENT REPAIRS AND RESTRATE CONSIDERED RODENTAL TO PAY IT PLACE OF CONSIDERT ASSOCIED WITH ADDITIONAL GENERATION REFERSAMENT REPAIRS AND RESTRATE RECOMPLETED RODENTAL TO PAY IT PLACE OF CONSIDERT ASSOCIED WITH ADDITIONAL GENERATION REFERSAMENT REPAIRS AND RESTRATE RECOMPLETED RODENTAL TO PAY IT PLACE OF CONSIDERT ASSOCIED WITH ADDITIONAL GENERATION REFERSAMENT RECOMPLETED RATE RECOMPLETED RODENTAL TO PAY IT PLACE OF CONSIDERT ASSOCIED WITH ADDITIONAL GENERATION REPAIRS AND REPAIRS AND RECOMPLETED RODENTAL TO PAY IT PLACE OF CONSIDERT ADDITIONAL GENERATION REPAIRS AND REPAIRS AND RECOMPLETED RECOMPLETED RODENTAL TO PAY IT PLACE OF CONSIDERT ADDITIONAL GENERATION REPAIRS AND REPAIRS AND RECOMPLETED RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTING TO PAY ADDITIONAL GENERATION REPAIRS AND REPAIRS AND REPAIRS AND RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTING TO PAY IT PAY IT PLACE OF TO ADDITIONAL GENERATION REPAIRS AND RECOMPLETED RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTING TO PAY IT PAY IT PAY IT PAY ADDITIONAL DIFFERENCES AND RECOMPLETED RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTING TO PAY IT PAY IT PAY IT ADDITIONAL DIFFERENCES AND RECOMPLETER RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTING TO PAY IT PAY IT PAY IT ADDITIONAL DIFFERENCES AND RECOMPLETER RECOMPLETED RODENTAL DIFFERENCES OF CONSIDERTED RODENTED RODENTAL DIFFERENCES OF CONSIDERTED RODENTED	G-004 4 of 313
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	SUMMARY OF APPROXIMATE QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I	SCHEDUI
			ESTIMATE AS BUILT	- ESTIMATE ASBUILT
D-751a D-751b	INSTALL NEW TRPLETTYPE II NLET STRUCTURE INSTALL NEW DOUBLE TYPE II NLET STRUCTURE	EA	2 7	0 0
D-7510	INSTALL OVERSIZED TRPLE TYPE IIIM.ET	EA		0 0
D-751d D-751e	INSTALL ARFELD MANHOLE INSTALL TYPE B MANHOLE	EA EA	3	0 0
D-751f	INSTALL TYPE P MANHOLE	EA	2	0
D-751g	REMOVE EXISTING INLET	EA	- :	0
D-751h	INSTALL UNDERDRAIN MANHOLES	EA	16	0 0
T-901a	THE TO EAST INVO STRUCTURE SEEDING (SEED MIX DESION 2)	S Q	235	> 0
T-905a	TOPSOILING	сү	49,248	0
T-908a	HYDRAULIC MULCHING	AC	235	0
T-908b	EROSION CONTROL BLANKETS	۶۷	86,527	0
L-108a	#8 AWG L-824C, 5000V CONDUCTOR	ĽF	194,000	0
L-110a	1W-2" SCH. 40 PVC CONDUIT IN EARTH	5	550	0
110	11W-2* SCH 40 PVC CONDUIT IN NEW CONCRETE PAVEMENT	- L	7,580	0 0
L-1100	1W-2 SCH 40 PVC CONDUIT N NEW SSPHALT PAYEMENT	5 5	13,420	0 0
L-110e	0014. SUR 4U PVC CUNCRE LE ENCASED UOU DAWN. BROKEN CONDUIT FEPA IR	7	1,000	
L-1101	REMOVE CONCRETE ENCASED DUCT BANK	LF 1	9,550	0
I-115a	INSTALL MEWEI FCTREAM MANHOLF	EA	e	, c
L-115b	ADUST EXISTING ELECTRICAL MANHOLE	EA	2	0
L-115c	REMOVE EXISTING ELECTRICAL MANHOLE	EA	3	0
L-120a	FURNISH L447-2 CIRCUIT SELECTOR SWITCH	EA	0	-
L-120b	FURNISHL-847-3 CIRCUIT SELECTOR SMITCH	EA	0	-
L-120c	INSTALLL&7-2 CIRCUIT SALECTOR SWITCH INSTALL 1. AZ7.5 CIRCUIT SA FETOR SWITCH	EA		0 0
-126	ED TAYIWAV	EA		
L-1258	L-952C LED TAXIWAY UNDIRECTIONAL CENTERLINE LIGHT L-952C LED TAXIWAY BIDRECTIONAL CENTERLINE LIGHT (SINGLE CIRCUIT)	EA	3	0 0
L-125c	L-952K LED TAXMAY BIDIRECTIONAL CENTERLINE LIGHT (SINGLE CIRCUIT)	EA	80	0
L-125d	L-861TQUARTZTAXIWAY EDGE LIGHT MOUNTED ON L-867 BASE CAN	EA	62	0
L-125f	L-0011 LED I MANIMATE DO DE LIDORI LED ON L-001 PARE CANA L-0011 LED TAXIMAY EDGE LIDHT MOUNTED ON L-008 BASE CAN	EA	00 -	
L-125g	L-868B 34" THICK COVER PLATE	EA	· @	0
L-125h	L-867B 38" THICK COVER PLATE	EA	4	0
L-125i	NEW 22" DEEP L-8688 BASE CAN IN NEW CONCRETE PAVEMENT	EA	172	0
L-125j	NEW 26" DEEP L-8689 BASE CAN IN NEW CONCRETE PAVEMENT	EA	10	0
L-125k	NEW L-867B BASE CAN IN NEW ASPHALT PAVEMENT	EA	121	0 0
L-125m	THEFT LOOD B DAGE OWN M CAST INV AST INV AST INV AST INVESTIGATION AND AND AST INVESTIGATION AND AND AND AND AND AND AND AND AND AN	EA	, 2	0
L-125n	L-858 LED GUIDANCE SIGN - 3 MOD	EA	10	0
L-1250	L-858 LED GUIDANCE SIGN - 4 MOD	EA	1	0
L-125	NEW GUIDANCE SKIN FOUNDATION - 3 MOD	EA	8	0
L-125q	NEW GUIDANCE SIGN FOUNDATION - 4 MOD	EA	-	0
L-125	NEW GUDANCE SIGN FOUNDATION -5 MOD PEMOLIF EXERTING SIGN AND PASE	EA	3	0 0
L-125t	REMOVE EXAMINE AND BASE CAN	EA	5 102	
L-125u	RECONNECT 2" CONDUIT AT LOCATION OF REMOVED BASE CAN	EA	2	, o
L-125v	REMOVE AND REPLACE FIXTURE OR SIGN D MARKER	EA	215	0
L-125w	REMOVE AND REPLACE CIRCUIT ID TAG	EA	92	0
L-125x		EA	24	0
L-125y	MASK OFF TAXWAY CENTERLINE LIGHT	EA	42	0
L-125z	COVER GUIDANGE SIGN	EA	16	0
L-125aa L-132-5.1	EDGELIGHT DRAN INSTALLATION OF NEW LLWAS INCLUDING ALL EQUIPMENT AND FOUNDATIONS. AS SHOWN ON CONTRACT DOCUMENTS	EA	6 -	0 0
-132-5.	REMOVAL OF EXISTING LLWAS INCUUDING ALL EQUIPMENT, EES, TOWER AND FOUNDATIONS	LS	-	0
-132-5	CONCRETE ENCARED, SCHEDULE 80 PVC, FAA DUCT BANK, 4 VAY 4 NCH	LF.	6,000	0
L-132-5.4 L-132-5.5	COMPARE ENVIREDUCE BOLTY, TAUDUL IDAM, 2 WAY 2 WAR #10 AWG, BARE COPPER FAA GUARD WRE NSTALLED ABOVE DUCT BANK OR CONDUIT, INCLUDING GROUND RODS, CONNECTIONS, AND TERMINATIONS	LF LF	7,500	0 0
+ 132-5	FAX COMMUNICATIONS MANHOLE, 6 FEET BY 6 FEET LEAN DAVINED UNITATIONS MANHOLE, 6 FEET BY 6 FEET	EA	7	0 0
-132-5	FAM POWER MANHOLE, 6 FEET BY 6 FEET 242 AWG AND 1-44 AWG GROUND CABLE INSTALLED IN DUCT BANK OR CONDUIT, INCLUDING ALL CONNECTIONS AND TERMINATIONS	ΕA	4 1,550	0 0
L-140a	POST-CONSTRUCTION PHOTOMETRIC TESTING L EREP ADDAT ARE MAYARI ED IN MARENET INDUCT OR CANINIT MCLITING TESTING AND CONNECTIONS	LS LE	1	0 0
1-150-2			nnmat-	





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			cation	NSCS	С	СГ	SC	Ч	공	ł	ł	CL	ł	СН	ł	ł	ł	1	ł	СН	ł	ł	ł	ł	СН	ł	ł	С	I	Date: 2021-07-20
RockSol	, Inc.		Classification	AASHTO	A-6(5)	A-6(3)	A-6(1)	A-7-6(45)	A-7-6(39)	1	1	A-7-6(34)	ł	A-7-6(39)			ł	ł		A-7-6(37)	-	-	-	-	A-7-6(40)	1	ł	A-6(14)	ł	Date:
kS	consulting Group, Inc.)EN)			R-Value	I	I	ł	I	1	ł		ł			I		I			1			ł	ł	ł	I		ł		
Roc	ut (DEN)		Unconf.	Comp. Strength (psf)																										
	Consu Design Services. Denver International Airport (DEN)			% Swell (+) / Consolidation (-)	0.4% @ 200 psf	0.1% @ 200 psf	0.0% @ 200 psf	7.3% @ 200 psf							15.2% @ 200 psf		11.1% @ 200 psf							10.9% @ 200 psf		14.8% @ 200 psf				
	ver Inter			Soluble Sulfate (%)	00.00		0.04		0.65	0.67		1.24								1.43			0.36	1.08	0.66			0.14		
	Den			Hq						8.0		8.0								8.0					7.9			7.6		
	ices. I		Ð	ā	15	11	12	40	38			33		37						36					38			22		f 8
	Serv		Atterberg	ЪГ	13	13	14	21	4			15		15						15					14			14		Page 1 of 8
	esian		∢	Ľ	28	24	26	61	52			48	(52						51					52			36		Pa
			_	Fines < #200 (%)	56.0	53.7	38.6	99.7	97.2			97.8		97.7						97.0					98.7			74.2		
	Taxiwa		Gradation	Sand (%)	44.0	46.3	60.4		2.8			2.2		2.3						3.0					1.3			25.7		
sults	meDEN			Gravel > #4 (%)	0.0	0.0			0.0			0.0		0.0						0.0					0.0			0.0		
est Re	Project NameDEN Taxiwav EE		Natural	Dry Density (pcf)						106.4	111.9		112.5		119.7		118.0	113.9	109.6		112.7	115.2	113.0	116.8		124.4	115.7		108.5	
tory To	, 056 Pro		Natural	Moisture Content (%)	15.8	12.3	15.3	16.7		21.1	18.8		18.2		14.8		16.4	17.9	19.1		13.3	15.9	16.6	15.5		11.4	16.3		18.9	
abora	05/220-(Sample Type	MC	MC	MC	MC	GRAB	MC	MC	GRAB	MC	GRAB	MC	GRAB	MC	MC	MC	GRAB	MC	MC	MC	MC	GRAB	MC	MC	GRAB	MC	
ary of L	Proiect No: 522.05/220-056		Sample Location	Depth (ft)	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	0.5~5.0	0.5~1.5	2.0~3.0	5.0~10.0	5.1~6.1	10.0~15.0	10.1~11.1	15.0~20.0	15.1~16.1	25.0~25.8	0.5~1.5	1.0~15.0	2.0~3.0	5.0~6.0	10.0~11.0	15.0~16.0	16.0~25.0	20.0~21.0	25.0~25.9	0.5~5.0	0.5~1.5	
Summary of Laboratory Test Results	Project		San	Boring No.	B-01	B-01	B-01	B-01	B-02	B-02	B-02	B-02	B-02	B-02	B-02	B-02	B-02	B-02	B-03	B-03	B-03	B-03	B-03	B-03	B-03	B-03	B-03	B-04	B-04	Rev 09/18

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С		Classification											0							0					-				: 2021
, Inc.		Class	AASHTO	ł	ł	A-6(6)	ł	ł	A-6(17)	1	1	1	A-6(22)	ł	1	A-6(14)	ł	A-6(21)	-	A-6(22)	1	1	1	ł	A-7-6(26)	:	ł	ł	Date
OCKS01			R-Value	ł		ł	I	I	1	I			ł	I		ł		-	1	1	ł	1			1		I		
RockSol Consulting Group, Inc	nt (DEN)	Unconf	Comp. Strength (psf)																										
	Denver International Airport (DEN)		% Swell (+) / Consolidation (-)				3.2% @ 200 psf	0.6% @ 200 psf		4.6% @ 200 psf									2.1% @ 200 psf		7.4% @ 200 psf	4.0% @ 200 psf							
	ver Interi	Water	Soluble Sulfate (%)	0.41		0.13			0.11				0.03	0.00		0.51		0.73	0.05	0.18					0.04		0.38		
	Den		Ηd			8.1			7.8				7.9			7.7		7.7		7.8					7.9				
	ces,	g	Ē			12			22				27			19		26		26					29				8
	Servi	Atterberg	PL			14			10				13			15		12		12					14				Page 2 of
	Design Services,	Ā	LL			26			32				40		•	34		38		38					43				Pac
	Ш		Fines < #200 (%)			73.3			85.5				85.1			83.1		86.1		90.3	87.0				90.2				
	Project NameDEN Taxiway	Gradation	Sand (%)			26.7			14.5				14.9			16.7		13.8		9.5					9.5				
esults	meDEN		Gravel > #4 (%)			0.0			0.0																				
est Re	oject Na	Natural	Dry Density (pcf)	110.7	112.0		110.1	108.8		115.9	124.0	118.6		110.7	87.5		109.4		117.2		117.0	113.4	111.1	116.8		88.6	106.6	109.5	
tory T		Natural	Moisture Content (%)	7.4	8.0		11.0	7.6		11.3	7.9	15.1		17.5	9.4		5.4		13.1		13.0	15.5	9.3	13.7		21.4	10.9	8.7	
abora	05/220-(Sample Type	MC	MC	GRAB	MC	MC	GRAB	MC	MC	MC	GRAB	MC	MC	GRAB	MC	GRAB	MC	GRAB	MC	MC	MC	MC	GRAB	MC	MC	MC	
Summary of Laboratory Test Results	Project No: 522.05/220-056	Sample Location	Depth (ft)	2.0~3.0	5.0~6.0	6.0~15.0	10.0~11.0	15.0~16.0	16.0~22.0	20.0~21.0	25.0~26.0	30.0~30.8	0.5~5.0	0.5~1.5	2.0~3.0	5.0~10.0	5.1~6.1	10.0~15.0	10.1~11.1	15.0~20.0	15.1~16.1	20.1~21.1	25.1~26.1	30.0~30.8	0.5~5.0	0.5~1.5	2.0~3.0	5.0~6.0	
Summ	Project	San	Boring No.	B-04	B-04	B-04	B-04	B-04	B-04	B-04	B-04	B-04	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-05	B-06	B-06	B-06	B-06	Rev 09/18

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Inc. Caraantee		Classification	AASHTO	A-6(12)	ł	1	ł	1	1	A-7-6(28)	ł	A-7-6(23)	1	1	A-6(22)	ł	1	A-6(12)	1	1	1	A-7-6(24)	A-7-6(23)	A-7-6(26)	A-6(9)	A-6(14)	A-6(9)	A-6(7)	Date: 2
OCKS01 Consulting Group, Inc.			R-Value	1	I	ł	I	ł		I		ł		I	ł		I	1	-	1			1		ł		I		
RockSol Consulting Group, Inc.	rt (DEN)	Unconf	Comp. Strength (psf)																										
	Denver International Airport (DEN)		% Swell (+) / Consolidation (-)		2.2% @ 200 psf		2.7% @ 200 psf	6.2% @ 200 psf									6.3% @ 200 psf		4.1% @ 200 psf	7.9% @ 200 psf							1.7% @ 200 psf		
	ver Inter	Water	Soluble Sulfate (%)	1.41	0.07	0.30				0.03		0.40		1.44	1.48		0.07	0.49					0.00		0.47				
	Den		Hd	7.8		7.9				8.50		8.18			8.47			8.34											
		5	Ы	16						29		26			25			20				24	24	27	13	22	16	14	ω
	Servi	Atterberg	ЪГ	14						16		15			14			11				21	17	18	19	16	14	14	Page 3 of
	Design Services,	Ati	LL	30						45		41	J		39			31				45	41	45	32	38	30	28	Pag
	Ш		Fines < #200 (%)	86.8		86.0	81.3			92.5		88.2			89.9			74.7	88.6			92.3	94.3	91.2	78.3	72.6	71.1	68.3	
	Taxiwa	Gradation	Sand (%)	13.1		14.0				7.5		11.3			10.1			17.4				7.7	5.7	8.8	21.7	27.4	28.9	31.7	
sults	meDEN		Gravel > #4 (%)							0.0								5.2				0.0	0.0	0.0	0.0	0.0	0.0	0.0	
est Re	Project NameDEN Taxiway	Natural	Dry Density (pcf)		114.9		115.5	113.5	111.1		105.7		108.9	108.9		115.4	116.4		117.9	125.7	120.5								
tory T		Natural	Moisture Content (%)		11.0		14.6	9.5	4.4		20.2		9.4	11.8		15.6	10.8		11.1	10.9	11.9	20.6	20.2	9.9	6.7	14.3	10.6	18.6	
abora	05/220-(Sample Type	GRAB	MC	GRAB	MC	MC	MC	GRAB	MC	GRAB	MC	MC	GRAB	MC	MC	GRAB	MC	MC	MC	GRAB	MC	MC	MC	GRAB	HS	GRAB	
Summary of Laboratory Test Results	Project No: 522.05/220-056	Sample Location	Depth (ft)	6.0~12.0	10.0~11.0	13.0~23.0	15.0~16.0	20.0~21.0	25.0~25.5	0.5~2.0	0.5~1.5	2.0~6.0	2.1~3.1	5.0~6.0	8.0~13.0	10.0~11.0	15.0~16.0	16.0~20.0	20.0~21.0	25.0~26.0	30.0~30.6	0.0~5.0	0.5~1.5	2.0~3.0	5.0~6.0	6.0~10.0	15.0~15.8	15.8~20.0	
Summé	Project	San	Boring No.	B-06	B-06	B-06	B-06	B-06	B-06	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-07	B-08	B-08	B-08	B-08	B-08	B-08	B-08	Rev 09/18

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010	, Inc. GRAMTEENE		Classification	AASHTO	ł	ł	ł	ł	ł	A-6(22)	1	1	A-6(9)	ł	1	1	1	-	1	ł	ł	1	1		ł	ł	ł	A-6(19)	A-6(12)	Date: 2
kSd	Consulting Group, Inc.			R-Value					I					ł	ł	ł				I	I	1			I	I			ł	
RockSol	Consu	rt (DEN)	llnconf	Comp. Strength (psf)																										
		Denver International Airport (DEN)		% Swell (+) / Consolidation (-)											4.1% @ 200 psf	1.1% @ 200 psf					2.4% @ 200 psf			% @ psf	-0.5% @ 200 psf	-0.4% @ 200 psf				
		nver Inter	Water	Soluble Sulfate (%)					0.40					0.14						1.10									0.58	
				Hd						26			-															21	5	1
		Design Services,	berg										-																-	4 of 8
		gn Se	Atterberg	ЪГ						3 10			3 15															9 18	7 22	Page 4 of
		Desi								36			26															39	37	1
		ay EE	L	Fines < #200 (%)	91.4		83.4	90.9		89.2		75.9			59.2						98.2		45.0		21.3			91.2	81.6	1
		l Taxiwa	Gradation	Sand (%)	8.6			8.6		10.7											1.8		54.7		78.7			8.8	18.4	
culte	Sille	meDEN		Gravel > #4 (%)	0.0								10.0															0.0	0.0	
act Re		Project NameDEN Taxiway EE	Natural	Dry Dry Density (pcf)		102.8	104.4		106.6		116.3	118.2		118.2	127.1	123.1	125.2		114.4	110.4	115.7	108.9			95.4	113.2	116.8			
T T			Natural	Moisture Content (%)		21.6	19.7		13.2		14.7	14.3		10.4	8.1	5.7	7.1		16.4	10.1	17.2	9.6			6.3	3.6	3.4	17.1	21.1	
	abola	05/220-(Sample Type	GRAB	MC	MC	GRAB	MC	GRAB	MC	MC	GRAB	MC	MC	MC	MC	GRAB	MC	MC	MC	MC	GRAB		MC	MC	MC	GRAB	MC	
Summary of Laboratory Tast Results	a y ci r	Project No: 522.05/220-056	Sample Location	Depth (ft)	0.5~5.0	0.5~1.5	2.0~3.0	5.0~8.0	5.1~6.1	10.0~18.0	10.1~11.1	15.0~16.0	20.0~28.0	20.1~21.1	25.0~26.0	30.0~31.0	35.0~35.4	0.5~9.0	0.5~1.5	2.0~3.0	5.0~6.0	9.0~10.0	10.0~14.0		15.0~16.0	20.0~21.0	25.0~25.3	0.0~5.0	0.5~1.5	
		Project	San	Boring No.	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-09	B-10	B-10	B-10	B-10	B-10	B-10	B-10	B-10	B-10	B-10	B-11	B-11	Rev 09/18

DocuSigr

	212AF	Classification 5	-2E3E-4405 SOS N	CL	CL	CL	CL	CL)7	1	1	1	1	1	1	1	1	1	7) CH	1	-	1	7) CL	1	7) CL	1	ł	1	Date: 2021-07-20
p, inc.		Clas	AASHTO	A-6(12)	A-6(12)	A-6(4)	A-6(4)	A-6(4)	1	1	1	1	ł	1	1	ł	1	1	A-7-6(37	1	1	1	A-7-6(37)	1	A-7-6(37)	1	ł	1	Dat
COCKOOI Consulting Group, Inc	(R-Value		ł	I		I			1		I		I		1				I	1		ł					
KOCKSOI G Consulting Group, Inc.	ort (DEN)	Inconf	Comp. Strength (psf)																										
	EE Design Services, Denver International Airport (DEN)		% Swell (+) / Consolidation (-)			-0.1% @ 200 psf		0.1% @ 200 psf							0.3% @ 200 psf		1.0% @ 200 psf				17.8% @ 200 psf	17.7% @ 200 psf		13.4% @ 200 psf					
	nver Intel	Water	Soluble Sulfate (%)		0.46						2.04		0.72								2.01	0.37		1.10					
	, Der		Hd																										
	vices	erg	<u> </u>	13	14	12	12	13											39				36		36				of 8
	ר Ser	Atterberg	Ъ	23	19	13	14	13											16				13		12				Page 5 of 8
	esigr		Ľ	36	33	25	26	26				C							55				49		48				ä
		c.	Fines < #200 (%)	89.5	89.5	59.8	58.8	54.3	95.1			97.3		63.0	31.5	44.1			90.4	79.4			97.5		97.7	99.0			
	I Taxiwa	Gradation	Sand (%)	10.5	10.5	40.2	41.2	45.7	4.8					36.8		55.7			9.6				2.5		2.3				
sults			Gravel > #4 (%)	0.0	0.0	0.0	0.0	0.0											0.0				0.0		0.0				
est Re	Project NameDEN Taxiway	Natural	Dry Density (pcf)							100.1	115.7	117.2	109.7		110.5		125.9	118.5		102.3	105.6	106.8		117.8		114.5	117.2	110.5	
ltory T		Natural	Moisture Content (%)	14.0	10.7	9.8	24.4	8.8		23.9	12.4	15.0	18.1		6.6		8.3	10.1		22.7	19.0	20.8		14.9		17.0	7.6	9.1	
.abora	05/220-		Sample Type	MC	MC	HS	GRAB	HS	GRAB	MC	MC	MC	MC	GRAB	MC	GRAB	MC	MC	GRAB	MC	MC	MC	GRAB	MC	GRAB	MC	MC	MC	
ary of L	Project No: 522.05/220-056	Sample Location	Depth (ft)	2.0~3.0	5.0~6.0	10.0~11.0	11.0~15.0	15.0~16.0	0.5~10.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	11.0~14.0	15.0~16.0	16.0~25.0	20.0~21.0	25.0~25.8	0.5~8.0	0.5~1.5	2.0~3.0	5.0~6.0	9.0~13.0	10.0~11.0	14.0~19.0	15.0~16.0	20.0~21.0	25.0~25.6	
Summary of Laboratory Test Results	Project	San	Boring No.	B-11	B-11	B-11	B-11	B-11	B-12	B-12	B-12	B-12	B-12	B-12	B-12	B-12	B-12	B-12	B-13	B-13	B-13	B-13	B-13	B-13	B-13	B-13	B-13	B-13	Rev 09/18

Envelop	e ID:	212AF	5A3-	2E3E-4405	5-82E	A-4E	EAF1	EB8	EDD)7																				20
	UNEERING GROUP		cation	NSCS	СН	CL	СГ	CL	CL	1	ł	ł	CL	ł	ł	CL	ł	ł	СГ	ł	ł	ł	CL	CL	ł	ł	ł	С	С	Date: 2021-07-20
010	, Inc. GRANTEENE		Classification	AASHTO	A-7-6(32)	A-7-6(23)	A-7-6(23)	A-6(9)	A-7-6(32)	1	ł	-	A-6(15)	ł		A-6(20)	ł	ł	A-7-6(25)	ł	ł	ł	A-7-6(24)	A-7-6(27)	ł	ł	ł	A-7-6(24)	A-7-6(28)	Date: 2
kS	Consulting Group, Inc.			R-Value		1	1	ł		ł	I	I		I						ł	I	I		ł					ł	
RockSol	Consu	rt (DEN)	Unconf	Comp. Strength (psf)																										
		Denver International Airport (DEN)		% Swell (+) / Consolidation (-)						0.0% @ 200 psf	6.5% @ 200 psf	3.2% @ 200 psf		0.3% @ 200 psf						0.4% @ 200 psf	3.9% @ 200 psf	7.3% @ 200 psf		4.0% @ 200 psf						
		iver Inter	Water	Soluble Sulfate (%)		00.0		0.22		0.00		0.46		0.16							0.45	0.64		0.77					0.01	
		Der		Hq																										
		ices,	Ð	P	34	24	25	22	33				21			24			27				28	30				28	28	f 8
		Servi	Atterberg	Ы	18	18	17	18	15				13			13			16				13	12				19	18	Page 6 of
		Design Services,	At	LL	52	42	42	40	48				34	J		37			43				41	42				47	46	Paç
		Ш		Fines < #200 (%)	89.6	93.6	90.4	55.5	93.0		76.7		81.7	45.5		89.1	93.4		90.5	94.7		82.5	88.7	91.8	98.0			85.0	95.4	
		Taxiwa	Gradation	Sand (%)	10.4	6.4	9.6	44.5	7.0				18.3			10.9			9.5				11.3	8.2				15.0	4.6	
e llte	Silles	meDEN		Gravel > #4 (%)	0.0	0.0	0.0	0.0	0.0				0.0			0.0			0.0				0.0	0.0				0.0	0.0	
act Re		Project NameDEN Taxiway	Natural	Dry Density (pcf)						97.0	111.6	132.7		108.2	124.6		112.4	106.0		93.5	107.2	112.5	115.3		100.3	105.9	110.7			
torv T			Natural	Moisture Content (%)	14.8	19.6	18.9	15.5		23.7	13.6	1.9		6.3	8.9		18.6	6.4		22.1	15.7	11.0	13.1		31.7	7.3	19.2	13.7	20.6	
ahora	anula	05/220-(Sample Type	GRAB	MC	MC	MC	GRAB	MC	MC	MC	GRAB	MC	MC	GRAB	MC	MC	GRAB	MC	MC	MC	GRAB	MC	MC	MC	MC	GRAB	MC	
Summany of Laboratory Tast Basults	aiy oi r	Project No: 522.05/220-056	Sample Location	Depth (ft)	0.0~5.0	0.5~1.5	2.0~3.0	5.0~6.0	0.5~8.0	0.5~1.5	2.0~3.0	5.0~6.0	9.0~17.0	10.0~11.0	15.0~16.0	18.0~25.0	20.0~21.0	25.0~25.6	0.5~10.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~20.0	10.1~11.1	15.0~16.0	20.0~21.0	25.0~25.8	0.0~5.0	0.5~1.5	
		Project	San	Boring No.	B-14	B-14	B-14	B-14	B-15	B-15	B-15	B-15	B-15	B-15	B-15	B-15	B-15	B-15	B-16	B-16	B-16	B-16	B-16	B-16	B-16	B-16	B-16	B-17	B-17	Rev 09/18

Envelope	e ID: 2	212AF	5A3-	-2E3E-4405	5-82E	A-4E	EAF1	EB8	EDD	07																				0
	UNELFING GROUP		cation	NSCS	CL	CL	СН	СГ	СН	ł	ł	ł	ł	CL	1	I	ł	СН	СН	СН	СН	СН	CL	СГ	CL	CL	СН	GH	GH	Date: 2021-07-20
RockSol G	Inc. GRANTEENC		Classification	AASHTO	A-7-6(23)	A-6(20)	A-7-6(36)	A-7-6(24)	A-7-6(31)	ł	ł	ł	ł	A-6(21)	1	1	ł	A-7-6(32)	A-7-6(30)	A-7-6(24)	A-7-6(51)	A-7-6(38)	A-7-6(21)	A-7-6(22)	A-7-6(27)	A-7-6(25)	A-7-6(59)	A-7-6(45)	A-7-6(45)	Date: 2
kS	Consulting Group, Inc.			R-Value	-	1				ł		ł	ł		ł				ł	ł	ł	I		ł		ł				
Roc	Consu	rt (DEN)	Unconf	Comp. Strength (psf)																										
		Denver International Airport (DEN)		% Swell (+) / Consolidation (-)		6.0% @ 200 psf						15.6% @ 200 psf	6.4% @ 200 psf		5.5% @ 200 psf							11.7% @ 200 psf								
		iver Inter	Water	() ()	0.20					2.28			2.48						0.39	1.70	0.28			0.32		1.57				
		Den		Hd																										
		Design Services,	LG	ā	26	21	35	24	33					24				32	32	29	49	35	28	25	30	30	53	41	42	of 8
		Serv	Atterberg	Ъ	18	19	20	18	19					14				22	18	21	19	20	17	17	16	15	24	21	20	Page 7 of
		esign	Ā	L	44	40	55	42	52					38				54	50	50	68	55	45	42	46	45	77	62	62	Ъą
		Ш		Fines < #200 (%)	87.9	90.8	94.2	95.8	88.1		95.2			89.7	91.0		97.6	92.2	90.5	82.4	93.9	98.0	78.4	86.9	88.9	83.6	97.0	98.3	95.6	
		Taxiwa	Gradation	Sand (%)	12.1	9.2	5.8	4.2	11.9					8.6				7.8	9.5	17.6	6.1	2.0	21.6	12.1	11.1	16.4	3.0	1.7	4.4	
sults		meDEN	•	Gravel > #4 (%)	0.0	0.0	0.0	0.0	0.0									0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	
est Re		Project NameDEN Taxiway	Natural	Dry Density (pcf)						108.6	101.7	106.8	112.3		118.0	114.7	120.4													
torv T			Natural	Moisture Content (%)	12.3	12.5	17.6	16.8		19.1	21.2	21.8	17.9		15.3	17.1	14.8	19.3	22.0	15.9	18.3	16.7	12.8	20.6	9.6	13.4	20.5	17.1	18.8	
abora		05/220-		Sample Type	MC	MC	DRY CORE	MC	GRAB	MC	MC	MC	MC	GRAB	MC	MC	MC	GRAB	MC	MC	MC	MC	GRAB	MC	MC	MC	MC	DRY CORE	MC	
Summary of Laboratory Test Results		Project No: 522.05/220-056	Sample Location	Depth (ft)	2.0~3.0	5.0~6.0	6.0~10.0	10.0~11.0	0.5~12.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	12.0~25.0	15.0~16.0	20.0~21.0	25.0~25.3	0.0~5.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	0.0~5.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	11.0~15.0	15.0~16.0	
Summa	5	Project	San	Boring No.	B-17	B-17	B-17	B-17	B-18	B-18	B-18	B-18	B-18	B-18	B-18	B-18	B-18	B-19	B-19	B-19	B-19	B-19	B-20	Rev 09/18						

Envelope ID:	212AF	5A3-	-2E3E-4405	5-82E	A-4E	:AF1	EB8	SEDE)/	. —																
		cation	NSCS	CL	CL	CL	СН	СН	ł	ł	СГ	CL	CL	СН	СН	1	1	CL	СГ	CL	CL	СГ	CL-ML	sc	1	СГ
ROCKSOI G		Classification	AASHTO	A-7-6(27)	A-7-6(25)	A-7-6(24)	A-7-6(31)	A-7-6(34)	ł	I	A-7-6(28)	A-7-6(27)	A-6(22)	A-7-6(33)	A-7-6(31)	ł	1	A-6(17)	A-7-6(26)	A-7-6(23)	A-6(10)	A-6(11)	A-4(1)	A-6(2)	1	A-6(5)
OCKSOI Consulting Group, Inc.			R-Value		1		ł		I	I		ł		ł		I	ł		ł			ł			I	
Consult	rt (DEN)	llnconf	Comp. Strength (psf)																							
	Denver International Airport (DEN)		% Swell (+) / Consolidation (-)						10.0% @ 200 psf	8.4% @ 200 psf						5.7% @ 200 psf	10.3% @ 200 psf								-0.2% @ 200 psf	
	ver Interr	Water	Soluble Sulfate C (%)		0.03		1.50					0.02		0.06					0.03			0.01			-	
	Den		Hd						r																	
	ces,	0	₫	28	26	31	35	36			29	27	22	38	35			21	27	24	17	13	7	1		17
	Servi	Atterberg	Ъ	17	18	14	17	21			19	18	18	15	18			18	18	18	16	15	22	20		17
	sign	At	Ľ	45	44	45	52	57			48	45	40	53	53			39	45	42	33	28	29	31		34
	y EE Design Services,		Fines < #200 (%)	93.7	93.1	80.9	85.6	87.6			91.5	93.7	95.8	86.2	86.1			81.5	93.0	93.7	71.4	93.5	51.7	45.1		52.5
	Taxiwa	Gradation	Sand (%)	6.3	6.9	19.1	14.4	11.4			8.5	6.3	4.2	13.8	13.9			18.5	7.0	6.3	28.6	6.5	44.3	54.9		47.5
sults	meDEN		Gravel > #4 (%)	0.0	0.0	0.0	0.0	1.0			0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	4.0	0.0		0.0
est Re	Project NameDEN Taxiway	Natural	Dry Density (pcf)																							
tory T		Natural	Moisture Content (%)	16.4	22.3	16.4	14.6	18.3			13.1	18.1	19.0	11.1	12.7			21.3	22.0	14.7	7.6	6.9	6.9	11.0		12.7
.abora	05/220-(Sample Type	DRY CORE	MC	MC	MC	MC	MC	MC	GRAB	MC	MC	MC	MC	MC	MC	GRAB	MC	MC	GRAB	MC	DRY CORE	DRY CORE	MC	DRY CORE
ary of L	Project No: 522.05/220-056	Sample Location	Depth (ft)	16.0~20.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	15.0~16.0	20.0~21.0	0.0~10.0	0.5~1.5	2.0~3.0	5.0~6.0	10.0~11.0	15.0~16.0	20.0~21.0	0.0~3.0	0.5~1.5	2.0~3.0	3.0~5.0	5.0~6.0	6.0~10.0	10.0~15.0	15.0~16.0	16.0~20.0
Summary of Laboratory Test Results	Project	Sam	Boring No.	B-20	B-21	B-21	B-21	B-21	B-21	B-21	B-22	B-22	B-22	B-22	B-22	B-22	B-22	B-23	B-23	B-23	B-23	B-23	B-23	B-23	B-23	B-23

Date: 2021-07-20

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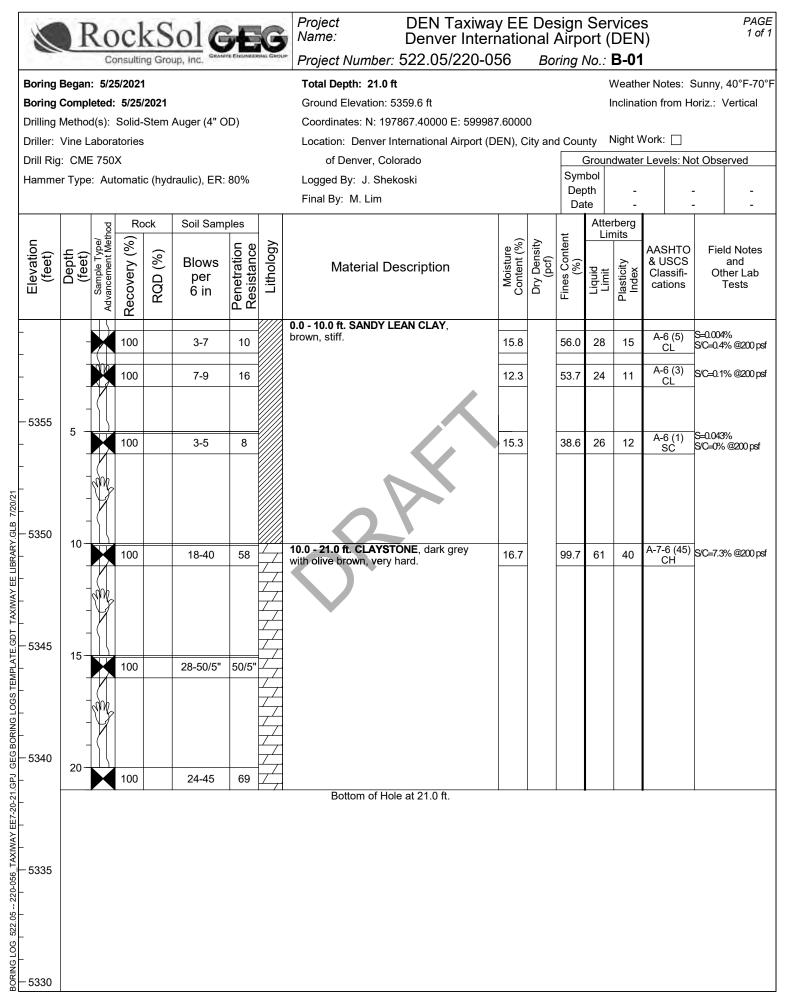


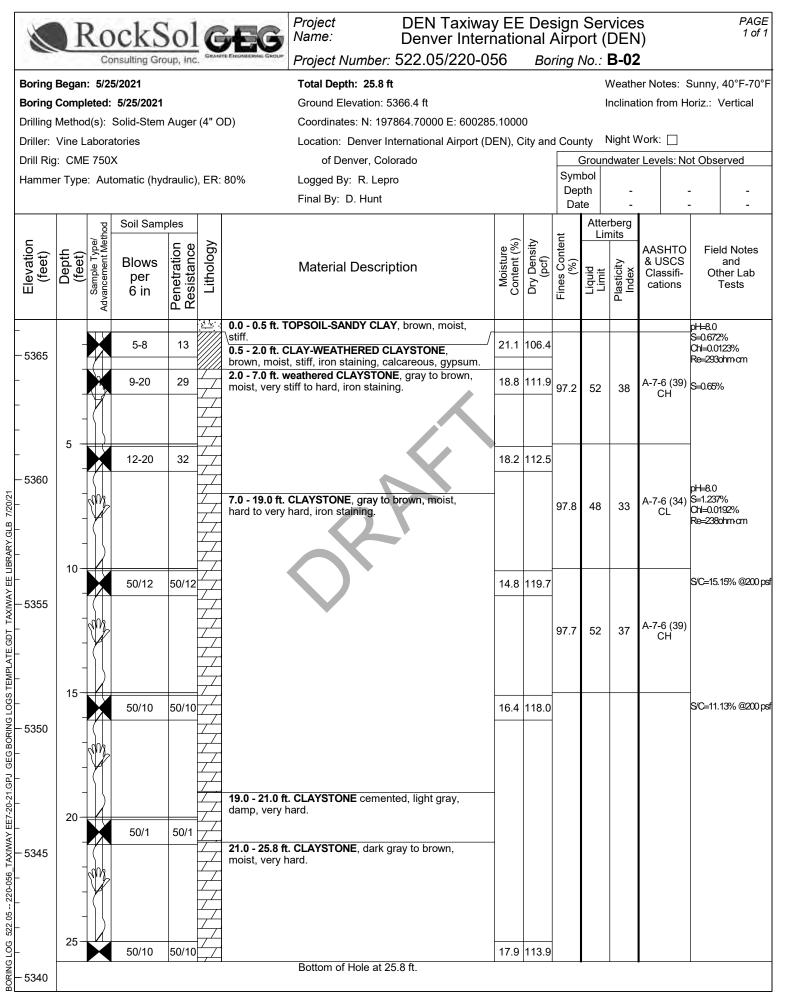
RockSolGEG Project	ct: DEN Taxiway EE Design Services
Consulting Group, Inc. GRAMITE EXIGNEETING GROUP Project	ct Number: 522.05/220-056
Legend for Symbols	Used on Borehole Logs
Sample Types	Modified California
Auger Cuttings Dry Core Sampler	Grab of Bulk Sample Sampler (2.5 inch OD, 2.0
Shelby Tube	inch ID)
Lithology Symbols (see Boring Logs for con	nplete descriptions)
USCS Low Plasticity Claystone	USCS Low to High
	Plasticity Clay Silty Clay Interbedded
Sandy Clay	Sandstone Claystone and Sandstone Sandstone
USCS Silty Sand $\begin{bmatrix} \frac{\sqrt{k}}{k} \\ \frac{\sqrt{k}}{k} \end{bmatrix}$ Topsoil	Weathered Bedrock
Lab Test Standards	Other Lab Test Abbreviations
Moisture Content ASTM D2216	pH Soil pH (AASHTO T289-91)
Dry Density ASTM D7263 Sand/Fines Content ASTM D421, ASTM C136,	S Water-Soluble Sulfate Content (AASHTO T290-91, ASTM D4327)
ASTM D1140	Chl Water-Soluble Chloride Content (AASHTO T291-91,
Atterberg Limits ASTM D4318 AASHTO Class. AASHTO M145,	ASTM D4327) S/C Swell/Consolidation (ASTM D4546)
ASTM D3282	UCCS Unconfined Compressive Strength (ASTM D2166)
USCS Class. ASTM D2487 (Fines = % Passing #200 Sieve	R-Value Resistance R-Value (ASTM D2844) DS (C) Direct Shear cohesion (ASTM D3080)
Sand = % Passing #4 Sieve, but not passing #200 Sieve)	DS (phi) Direct Shear friction angle (ASTM D3080) Re Electrical Resistivity (AASHTO T288-91)
Notes	PtL Point Load Strength Index (ASTM D5731)

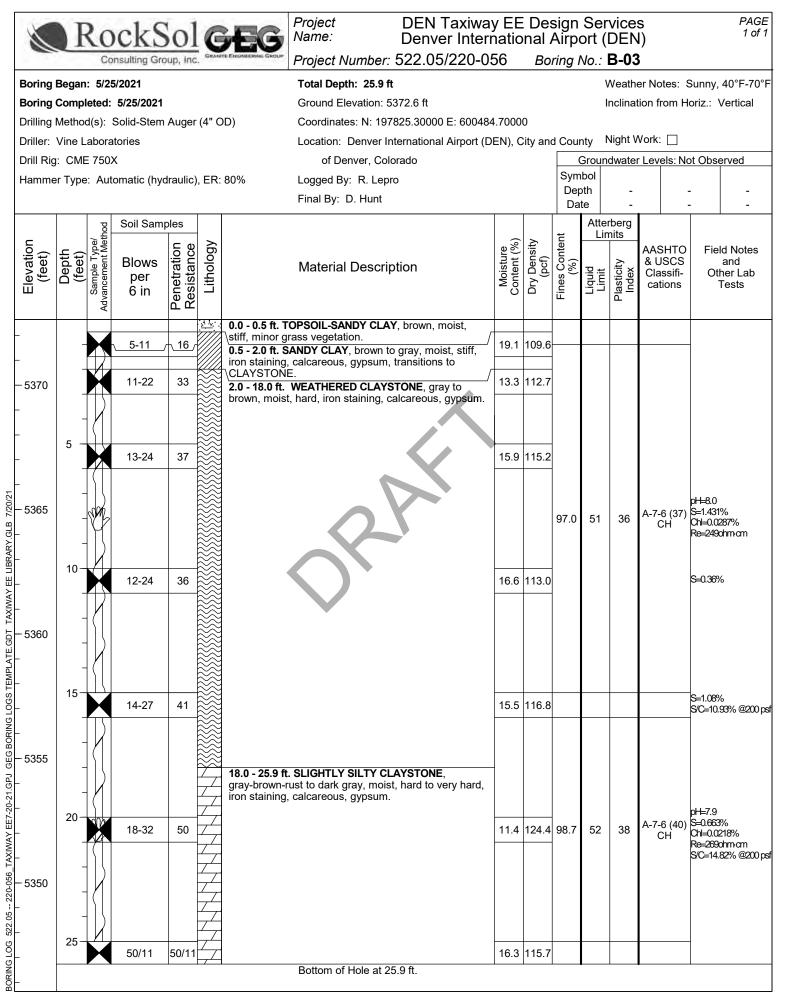
1. "Penetration Resistance" on the Boring Logs refers to the uncorrected N value for SPT samples only, as per ASTM D1586. For samples obtained with a Modified California (MC) sampler, drive depth is 12 inches, and "Penetration Resistance" refers to the sum of all blows. Where blow counts were > 50 for the 3rd increment (SPT) or 2nd increment (MC), "Penetration Resistance" combines the last and 2nd-to-last blows and lengths; for other increments with > 50 blows, the blows for the last increment are reported.

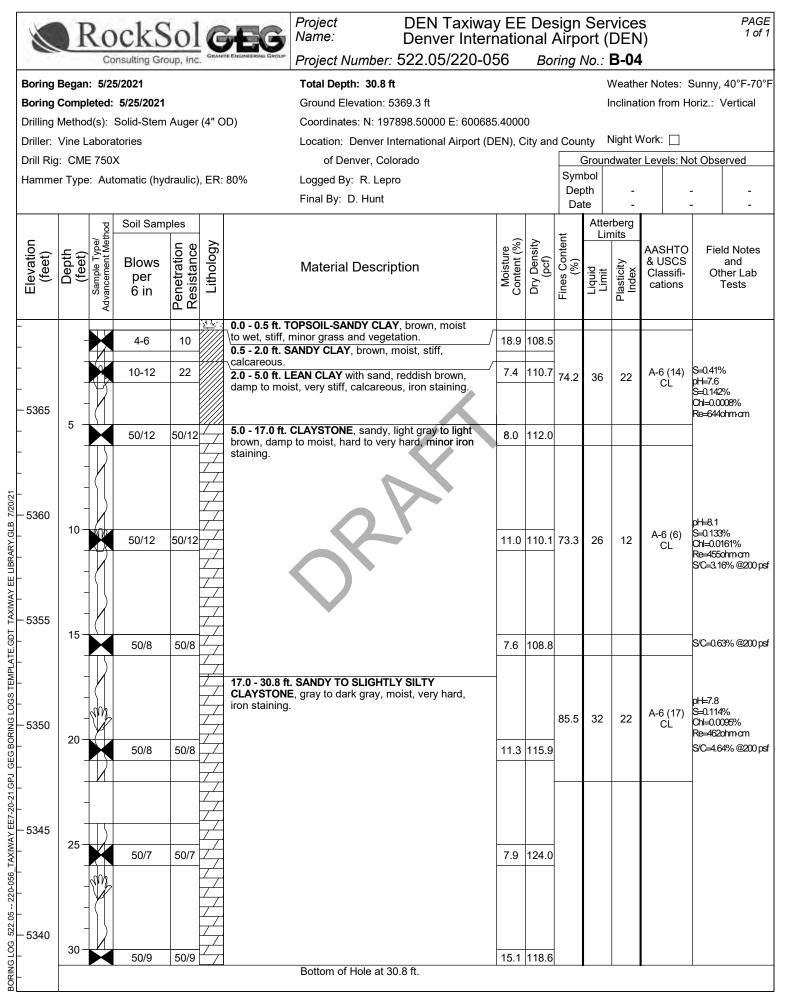
2. The Modified California sampler used to obtain samples is a 2.5-inch OD, 2.0-inch ID (1.95-inch ID with liners), split-barrel sampler with internal liners, as per ASTM D3550. Sampler is driven with a 140-pound hammer, dropped 30 inches per blow.

3. "ER" for the hammer is the Reported Calibrated Energy Transfer Ratio for that specific hammer, as provided by the drilling company.



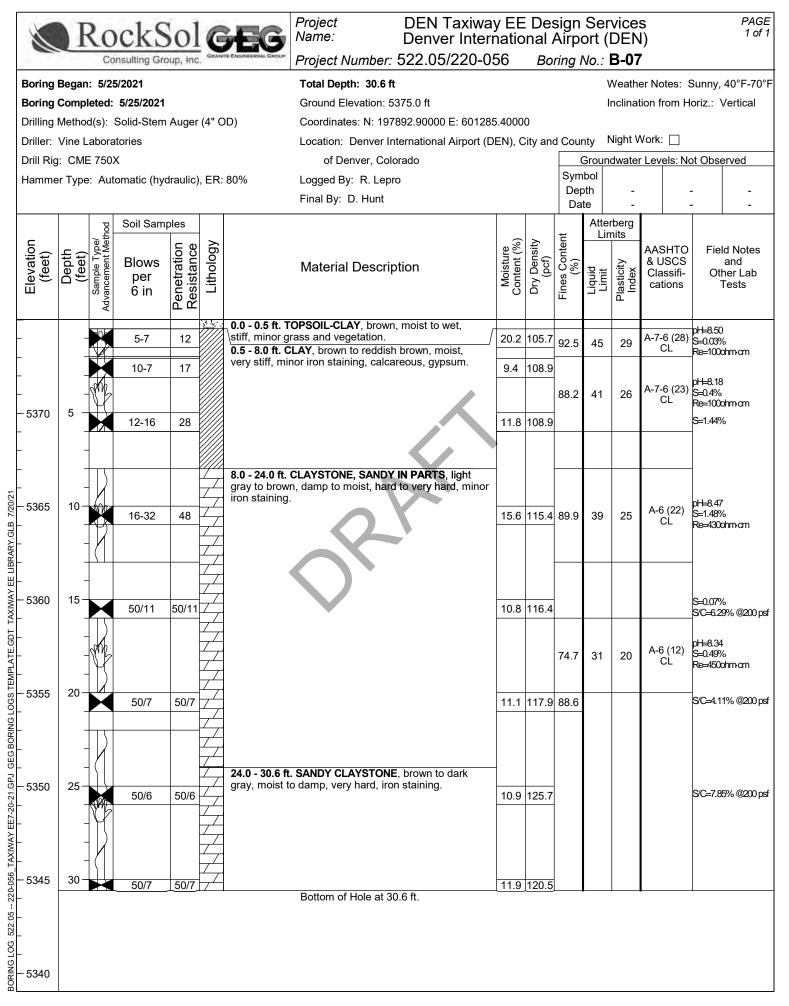


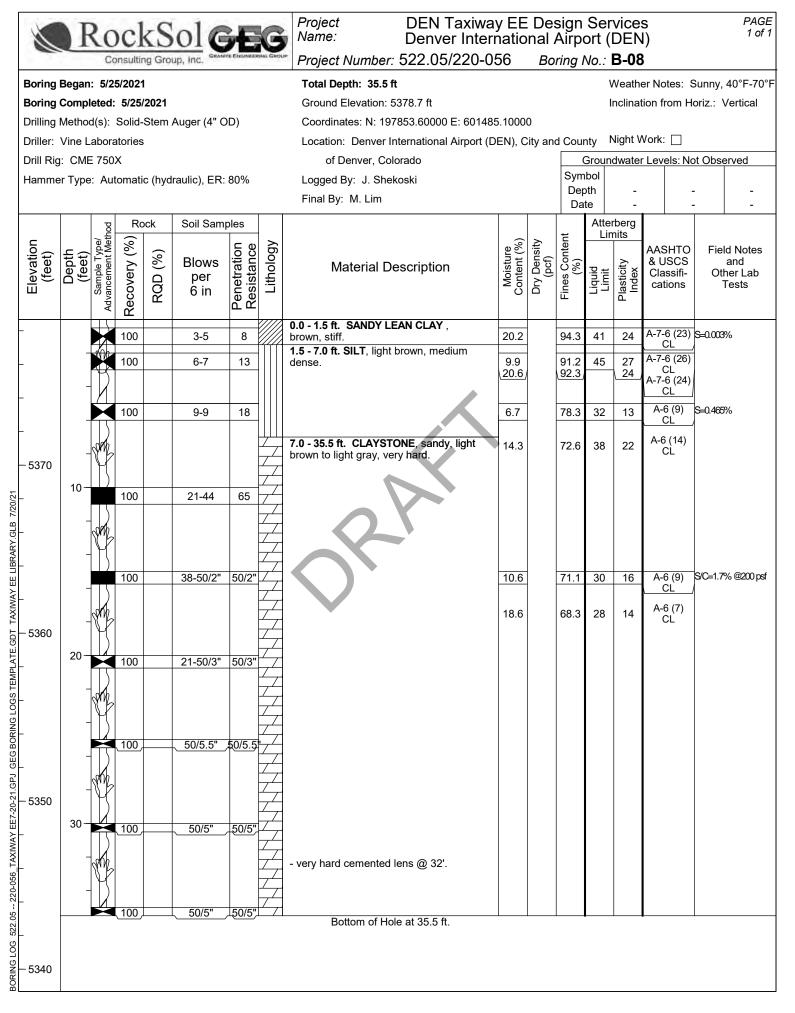




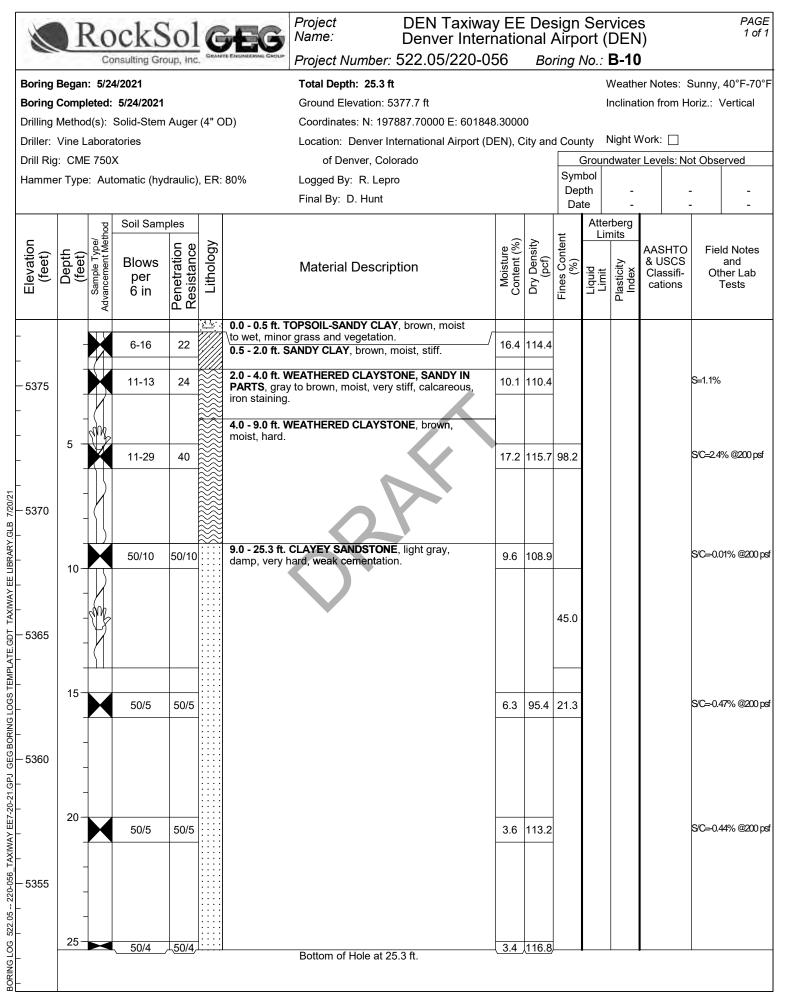
K	H	RC	ockS	50	C	EG	Project Name:	DEN Taxiwa Denver Interi	y EE natio	Des Des	sign Airp	Ser ort (vice DEN	s I)	PAGE 1 of 1
	-	_	onsulting Gro	_		TE ENGINEERING GROUP	Project Number:	522.05/220-0					B-05		
Boring	Begar	n: 5/2	5/2021				Total Depth: 30.8 f	t				١	Neath	er Notes:	Sunny, 40°F-70°F
_	-		5/25/2021				Ground Elevation: 5					I	nclina	tion from H	loriz.: Vertical
Drilling	Metho	d(s):	Solid-Stem	Auger	(4" C	D)	Coordinates: N: 197	7859.30000 E: 60086	5.3000	0					
Driller:	Vine L	abora	atories				Location: Denver li	nternational Airport (D	EN), C	City and	d Cou	nty I	Night V	Vork: 🗌	
Drill Rig	: CMI	E 750	х				of Denver, Col	orado			(Groun	dwate	Levels: N	ot Observed
Hamme	er Type	e: Aut	tomatic (hyd	draulic)	, ER:	80%	Logged By: R. Lep	ro			Sym				
							Final By: D. Hunt				Dep Da		-		
		p	Soil Sam	ples									rberg		
L L		Sample Type/ Advancement Method		-	N					ity	Fines Content (%)	Lir	nits		
Elevation (feet)	Depth (feet)	ent N	Blows	atio	Lithology		Material Descri	ntion	Moisture Content (%)	Dry Density (pcf)	Cont %)	_	Ę.	AASHTO & USCS	and
(fe	De f	ampl	per	ista	.itho			plion	Moi	гу (р) set	Liquid Limit	Plasticity Index	Classifi- cations	Other Lab Tests
ш		Var S	6 in	Penetration Resistance					0		Ë		립		
		4			<u></u>	0.0 - 0.5 ft. T	OPSOIL-SANDY CLA	Y brown moist							
_	-	X	5-6	11		∖stiff, minor g	rass and vegetation.	/	17.5	110.7					S=0%
-	-					0.5 - 4.0 π. S calcareous.	ANDY CLAY, brown,	moist, stiff,							pH = 7.9
-	-		8-9	17					9.4	87.5	85.1	40	27	A-6 (22) CL	S=0.03% Chl=0.0008%
_	-	R				40.004.0									Re=978ohm.cm
- 5365	5 -				$\frac{1}{7}$	light brown to	LAY , severely weather o gray, dry to moist, m								
-			10-10	20	+	iron staining.			5.4	109.4					
-		$\left[\right]$			\perp										pH = 7.7
-					$\frac{1}{2}$						83.1	34	19	A-6 (14) CL	ChI=0.004%
	-	1Й			ŹŢ	8.0 - 27.0 ft.	CLAYSTONEM, sand y, damp to moist, har	y in parts, reddish	1					-	Re=442ohm.cm
5360	-	1\				staining.	ly, damp to molet, har	u to very hard, non							
	10-		50/11	50/11					13.1	117.2					
	-	\mathcal{H}													pH=7.7
	-	SUNS.			4	4	$\langle \rangle$				86.1	38	26	A-6 (21)	S=0.731%
	-	V			4									CL	Chl=0.0007% Re=853ohm.cm
-	-	$ \langle $			<u>/</u>										
5355	15-				\angle										-
	-		50/7	50/7	\angle				13.0	117.0	87.0				S/C=7.43% @200 psf
	-				$\frac{1}{2}$									A-6 (22)	pH=7.8 S=0.178%
	-	NB			\angle						90.3	38	26	CL	Chl=0.0052% Re=432ohm.cm
3–	-				$\frac{1}{7}$										
- 5350	20-			_	+										
			50/8	50/8	+				15.5	113.4					S/C=3.97% @200 psf
2-	_				$\overline{/}$										
-		N/S			7										
-		N			<u>F</u>										
- 5345		1\[7										
	25-	X	50/6	50/6	7				9.3	111.1					
	-	\mathcal{H}													
	-	smb.			$\overline{\Box}$		SANDY CLAYSTON		1						
	-	11			\angle	damp to moi	st, very hard, iron stai	ning.							
	-	$ \langle $			\angle										
5340	30-		50/9	50/9	$\mathbf{Z}_{\mathbf{z}}$				13 7	116.8					
F			20.0	1.0	<u> </u>	I	Bottom of Hole at 3	0.8 ft.	<u>_</u>	1.10.0			1	ļ	
l <u>-</u>															

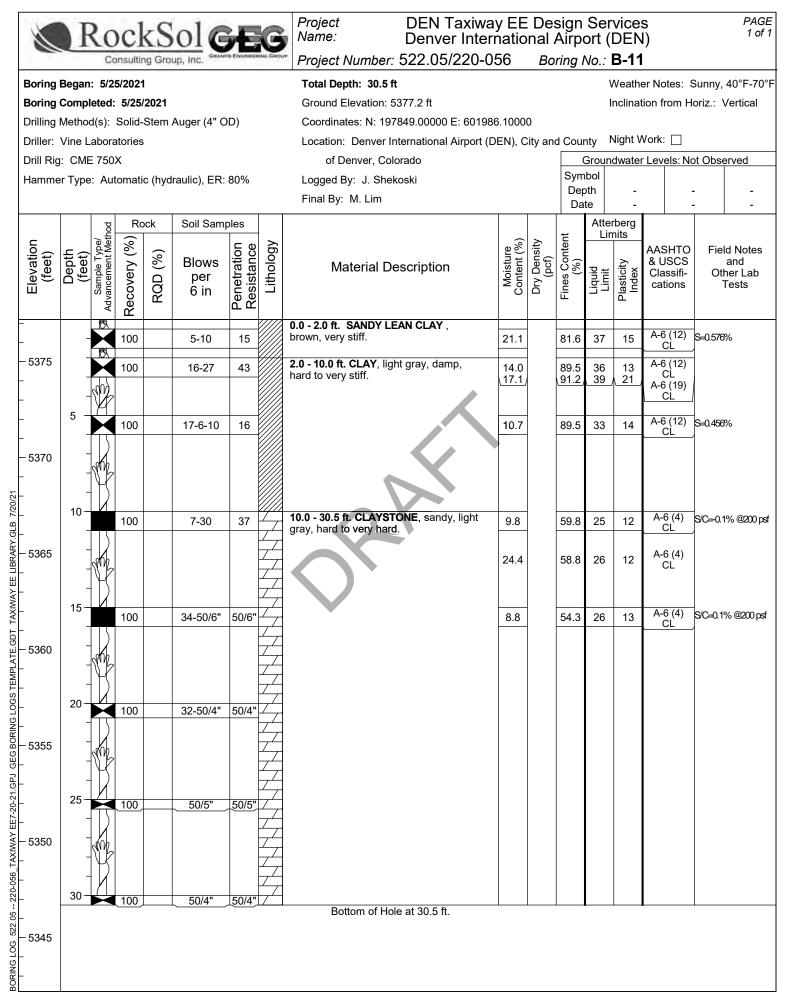
	H			-	GRAN	Project DEN Taxiwa Name: Denver Intern Project Number: 522.05/220-05					vice DEN B-06		PAGE 1 of 1
Devine	Dever			apt nie			00	00	ing i				
Boring	-		5/25/2021			Total Depth: 25.5 ft							Sunny, 40°F-70°F
	•			A	. (1" C	Ground Elevation: 5371.0 ft	4 0000	0		I	псша		loriz.: Vertical
-			Solid-Stem	Auger	(4 C						light V	Vork: 🗌	
Driller:						Location: Denver International Airport (D	EN), C	lity and					
Drill Rig						of Denver, Colorado			Sym		dwate	Levels: N	ot Observed
Hamme	er Type	: Aut	omatic (hyd	draulic), ER:				Dep		-		
	-					Final By: D. Hunt			Da		-		
		ро	Soil Sam	ples							rberg		
Б.		Sample Type/ Advancement Method		E 9	<u>S</u>		e (%	sity	Fines Content (%)		nits	AASHTO	Field Notes
Elevation (feet)	Depth (feet)	le T) rent	Blows	atic	Lithology	Material Description	Moisture Content (%)	Dry Density (pcf)	Cor %)	무 누	× ii	& USCS	and
[e]	ď€	amp	per	letr	Ē		Moi))	Liquid Limit	Plasticity Index	Classifi- cations	Other Lab Tests
		vd vai	6 in	Penetration Resistance	-				i		8		
		4			<u></u>	0.0 - 0.5 ft. TOPSOIL-SANDY CLAY, brown, moist,							
- 5370	_	NY	3-4	7	111	∖stiff, minor grass and vegetation. /	21.4	88.6					-
5570		4	5-4	/		0.5 - 5.0 ft. CLAY , brown to dark brown, moist, stiff to very stiff, calcareous.	21.4	00.0					
-	-		8-15	23			10.0	106.6				A-7-6 (26)	5=0.38%
_	-		0-15	23			10.9	100.0	90.2	43	29	A-7-6 (26) CL	pr⊨7.9
		N											S=0.04% Chl=0.0007%
	-	1)[]											Re=853ohm.cm
-	5 -		44.00	40	<u> </u>	5.0 - 20.0 ft. CLAYSTONE, SANDY IN PARTS, light	0.7	100 5					-
- 5365	-		14-28	42		brown to brown, damp to moist, hard to very hard, iron staining.	8.7	109.5					-
		$ \rangle$				stanning.							
_	-	1711			\mathbb{F}^{2}								
-	-	$\left\{ \right\} \left\{ \left[\right] \right\}$			F								pH=7.8
_	-	SPL.			F				86.8	30	16	A-6 (12)	S=1.405% Chl=0.0166%
		M			É7							CL	Re=383ohm.cm
-	10-		50/11	50/11	É7		11.0	114.9					S=0.07%
- 5360	-				ÉZ								S/C=2.16% @200 psf
_	-				É7								
					É7								
-	-				ĽΖ								
-	-	И			É7								
_	15-				É7								
			50/10	50/10	ŀΖ		14.6	115.5	81.3				S/C=2.68% @200 psf
- 5355	-				Ľz								
-	-	$\left \right\rangle \left \right\rangle$			\vdash								pH ⊨ 7.9
L	_	(ML)			E				86.0				S=0.295%
		IY I			F				00.0				Chl=0.0138% Re=396ohm.cm
_	-)			F-								
_	20-				Ĺ	20.0 - 24.0 ft. SILTY TO CLAYEY SANDSTONE	-						
- 5350	-		50/7	50/7		WITH INTERBEDDED CLAYSTONE IN PARTS,	9.5	113.5					S/C=6.19% @200 psf
		$ \lambda $		1		brown to light gray, damp to moist, very hard, iron staining.							
-	-	$ \langle $		1		.							
_	-	$ \downarrow \downarrow $											
L	_			1									
				1		24.0 - 25.5 ft. SILTY TO CLAYEY SANDSTONE , light brown to light gray, damp to moist, very hard,							
F	25-		50/6	50/6	<u> :::</u> ::	minor iron staining.	4.4	111.1					
- 5345						Bottom of Hole at 25.5 ft.				-			

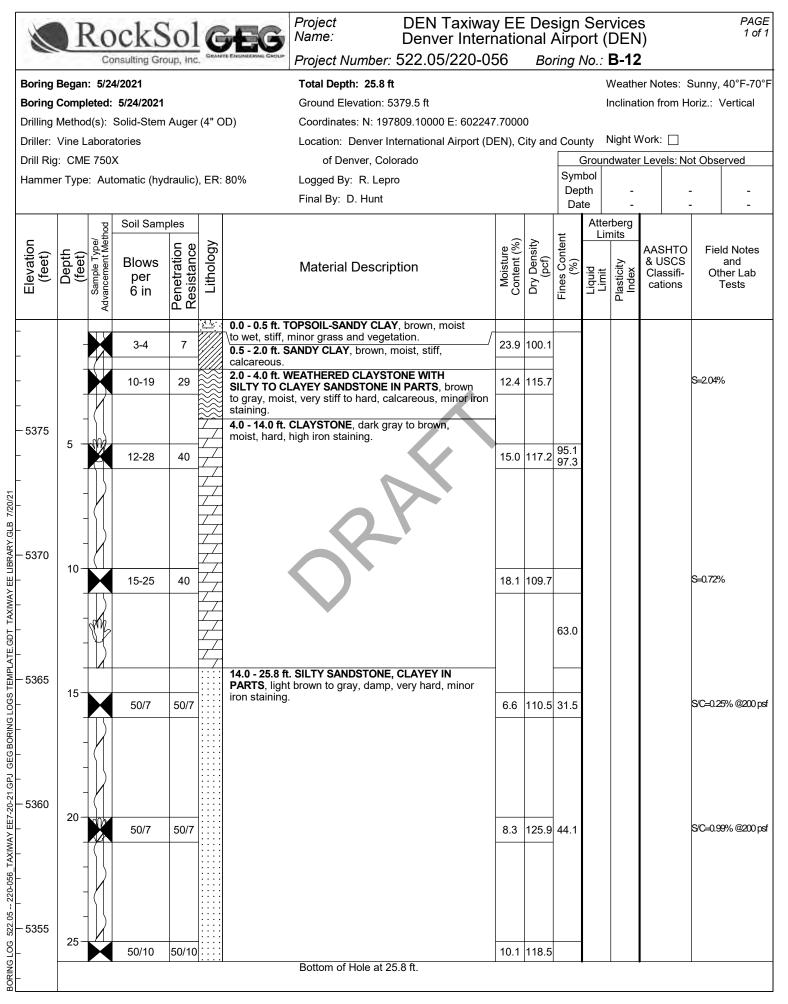


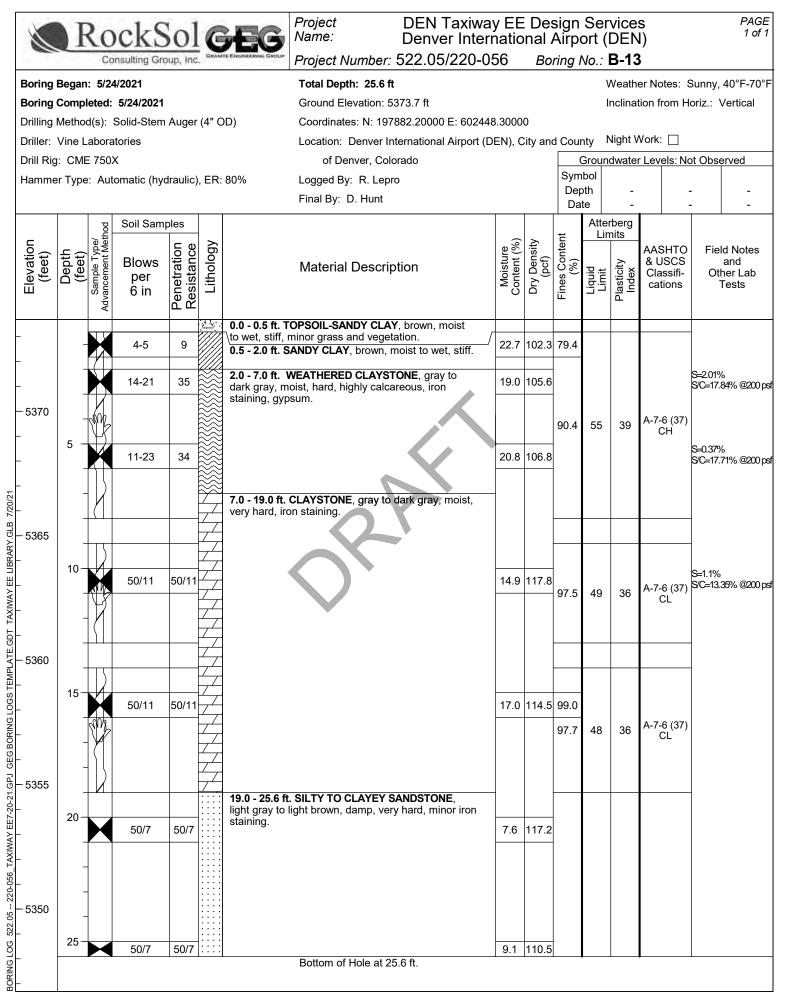


15 50/11 50/11 7 14.3 118.2 75.9 14.3 118.2 75.9 20 50/7 50/7 7 7 7 7 14.3 118.2 75.9 10 10 11 118.2 75.9 10 10 11 118.2 11 118.2 10 10 11 11 11 11 11 11 11 11 11 11 10 11 <		F	_	ckS	_	GRAM	Project DEN Taxiwa Name: Denver Inter							PAGE 1 of 1
Boring Complete: 5/25/2621 Ground Elevation: 5381.8 ft Inclination from Horiz:: Vertical Drilling Michold(8): Sciel Same Auger (4** OD) Coordinate:: N: 197814.60000 E: 60:1647.70000 Diministry and County: Night Work: [] Drilling: Vinc Laboratories Coordinate:: N: 197814.60000 E: 60:1647.70000 Diministry and County: Night Work: [] Drilling: Vinc Laboratories Coordinate:: N: 197814.60000 E: 60:1647.70000 Diministry and County: Night Work: [] Drilling: Vinc Laboratories Diministry Automatic (hydraulic), ER: 80% Logged By: R. Lepro Coordinate: N: 197814.6000 E: 60:1647.70000 Diministry: Sci Samples Diministry: Sci Samples Material Description Sci Samples AssHTO Bine By: D. Hunt AssHTO Boots Field Notes and Casaffie 5380 Diministry: Sci Samples Bine Sci D: CLY: light brown to rodiation brown, moti, stiff, angley, calcelease to extense os, minor 132.102.8 AssHTO Bine Sci Sample CLY: light brown to rodiation brown, moti, stiff, angley, calcelease to extense os, minor 132.102.8 Sci Area -5370 -5.7 12.8 Cos Area Cos Area Cos Area -5371 -5071 Soirt Sci Area Sci Area Sci Area -5370 <td< td=""><td>-</td><td></td><td>- 77</td><td>0.000</td><td>oup, inc</td><td></td><td>· ·</td><td>156</td><td>Во</td><td>ring I</td><td></td><td></td><td></td><td></td></td<>	-		- 77	0.000	oup, inc		· ·	156	Во	ring I				
Drilling Method(s): Solid-Stem Auger (4* OD) Coordinates: N: 197814.60000 E: 601647.70000 Drilling: Vinc Laboratories Location: Deriver International Airport (DEN). City and County. Night Work:	-	-					•							
Drille: Vine Laboratories Location: Deriver: Colorado Colorado <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>(4) 0</td> <td></td> <td></td> <td>•</td> <td></td> <td>I</td> <td>nclina</td> <td>tion from H</td> <td>oriz.: Vertical</td>	-	-				(4) 0			•		I	nclina	tion from H	oriz.: Vertical
Drill Rig: CME 750X of Denver, Colorado Groundwatter Levels. Not Observed Hammer Type: Automatic (hydraulic), ER: 80% Logged By: R. Lepro Structure Structure Structure - <	_				Auger	(4° C	,					light V		
Hammer Type: Automatic (hydraulic), ER: 80% Logged By: R. Lapro Final By: Symbol Depth Data Attenden Bind Bind Bind Bind Bind Bind Bind Bin								DEN), (City and		,	•		
Tailing Type Function Depth of the type function AASHTO function 00 00 00 00 00 00 00 00 00 00 00 00 00		-										dwate	Levels: No	ot Observed
Soil Samples Soil Samples Soil Samples Material Description Astrop of the description Ast	Hamme	er Type	: Aut	omatic (hyd	draulic)), ER:						-		
Solution							Final By: D. Hunt					-		
Section Section <t< td=""><td></td><td></td><td>g</td><td>Soil Sam</td><td>ples</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			g	Soil Sam	ples									
-5380 -4.6 10 stiff. 0.5 8.0 CLAY, light brown to reddish brown, moist, stiff, slightly calcareous to calcareous, minor iron staining, rock fragments. 10.7 10.4 83.4 -5375 -5.7 12 12.6 102.8 11.7 104.4 83.4 -5375 -5.7 12 13.2 106.6 90.9 90.9 36 26 4.6 12.2 -5375 -5.7 12 -5.7 12 -5.0 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 11.7 11.3 11.3 11.6 90.9 36 26 A-6 (22) CL -5365 -50.7 50.7 50.7 50.7 20.0 - 35.4 ft. CLAYSTONE, sandy, light gray to reddish brown, damp to moist, very hard, minor iron staining. 10.4 118.2 26 11 A-6 (9) SC-4.14% 6200.pd -5365 -50.6 50.6 -50.6 -50.6 -50.7 -50.14% -57.7 123.1 -50.14% SC-4.14% 6200.pd -5350 -50.16 -50.6 </td <td>Elevation (feet)</td> <td>Depth (feet)</td> <td>Sample Type/ Advancement Meth</td> <td>per</td> <td>Penetration Resistance</td> <td>Lithology</td> <td>Material Description</td> <td>Moisture Content (%)</td> <td>Dry Density (pcf)</td> <td>Fines Content (%)</td> <td></td> <td></td> <td>& USCS Classifi-</td> <td>and Other Lab</td>	Elevation (feet)	Depth (feet)	Sample Type/ Advancement Meth	per	Penetration Resistance	Lithology	Material Description	Moisture Content (%)	Dry Density (pcf)	Fines Content (%)			& USCS Classifi-	and Other Lab
5380 5 6.5 10 0.5 0.6 10 10.7 10.4 83.4 -5375 5 5.7 12 10 13.2 10.6 90.9 9.9 9.9 9.0.9% -5375 10 10 15.32 47 13.2 10.6 90.9 9.9 9.0.9% -5376 10 15.32 47 14.7 116.3 9.0.4% 9.0.4% 9.0.4% 9.0.9%<								/						
	- 	-		4-6	10			/ 21.6	102.8					
5 5.7.7 12 -5375 5.7.7 12 10 -15.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5376 -10 -11.5.32 47 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 -5360 -11.5.32 -11.5.32 -11.5.32 <td>_ 5360</td> <td>-</td> <td><u>Ó</u></td> <td>4-6</td> <td>10</td> <td></td> <td>moist, stiff, slightly calcareous to calcareous, minor</td> <td>19.7</td> <td>104.4</td> <td></td> <td></td> <td></td> <td></td> <td></td>	_ 5360	-	<u>Ó</u>	4-6	10		moist, stiff, slightly calcareous to calcareous, minor	19.7	104.4					
-5375 12 13.2 106.6 90.9 90.9 50.4%. -5375 10 15.32 47 47 16.3 90.9 36 26 A-6 (22) -5370 15 50/11 50/1	_		M				ion staining, fock fragments.			91.4				
-5375 12 13.2 106.6 90.9 90.9 50.4%. -5375 10 15.32 47 47 16.3 90.9 36 26 A-6 (22) -5370 15 50/11 50/1	_	5 -	И											
-3375 - <td>_</td> <td></td> <td>100</td> <td>5-7</td> <td>12</td> <td></td> <td></td> <td>13.2</td> <td>106.6</td> <td></td> <td></td> <td></td> <td></td> <td>S=0.4%</td>	_		100	5-7	12			13.2	106.6					S=0.4%
brown, damp to moist, hard to very hard. 5370 10 15 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/7 50/	- 5375	-	V P							90.9				
brown, damp to moist, hard to very hard. 5370 10 15 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/11 50/7 50/	-	-					8.0 - 20.0 ft SANDY CLAYSTONE light gray to light	_						
-5370 15-32 47 -5370 -5365 -	-	-				7								
-5370 -5365		10-		15.20	47	7		147	116.2					
15 50/11 50	9		1	10-32	47	7		14.7	110.3					
15 50/11 50/11 7 14.3 118.2 75.9 14.3 118.2 75.9 20 50/7 50/7 7 7 7 7 14.3 118.2 75.9 10 10 11 118.2 75.9 10 10 11 118.2 11 118.2 10 10 11 11 11 11 11 11 11 11 11 11 10 11 <		-	{			7								
15 50/11 50/11 7 14.3 118.2 75.9 14.3 118.2 75.9 20 50/7 50/7 7 7 7 7 14.3 118.2 75.9 10 10 11 118.2 75.9 10 10 11 118.2 11 118.2 10 10 11 11 11 11 11 11 11 11 11 11 10 11 <		-	and			$\overline{7}$							A-6 (22)	
-5365 -50/11 50/11 50/11 -50/11	Ĭ	-	177							89.2	36	26	CL CL	
3000 -		15-		50/11	50/11			14.3	118.2	75.9				
20 -5360 -5350 -5076 -5350 -5076	- 5365		И				·							
25 50/6 50/6 7<						/								
25 50/6 50/6 7<		_												
25 50/6 50/6 7 7 26 11 A-6 (9) SC=4.14% @200 psf 5355 30 50/6 50/6 7 7 123.1 1 1 A-6 (9) SC=4.14% @200 psf 5350 50/6 50/6 7 7 123.1 1	-	20-				7		_						
25 50/6 50/6 7<	8-	-		50/7	50/7	7		10.4	118.2					S=0.14%
5350		-	$ \langle $			+	staining.							
5350	_	-				+								
5350		-	Vb			ĹΖ.					26	11	A-6 (9)	
5350		25-		50/6	50/6	ĻΖ.		81	127 1	59.2				S/C=4.14% @200 psf
5350		-		00,0	00/0	ĻΖ.		0.1		00.2				
5.7 123.1 SC=1.05% @200 psf	5355	-	(7								
5.7 123.1 SC=1.05% @200 psf		-				μ.								
5.7 123.1 SC=1.05% @200 psf		20-				Ē								
		30-		50/6	50/6			5.7	123.1					S/C=1.05% @200 psf
	5350	_												
	8-	-												
35 50/5 50/5 Z Bottom of Hole at 35.4 ft.														
Bottom of Hole at 35.4 ft.		35-		50/5	50/5			7 1	125.2					
					<u></u>		Bottom of Hole at 35.4 ft.	<u></u>	,					

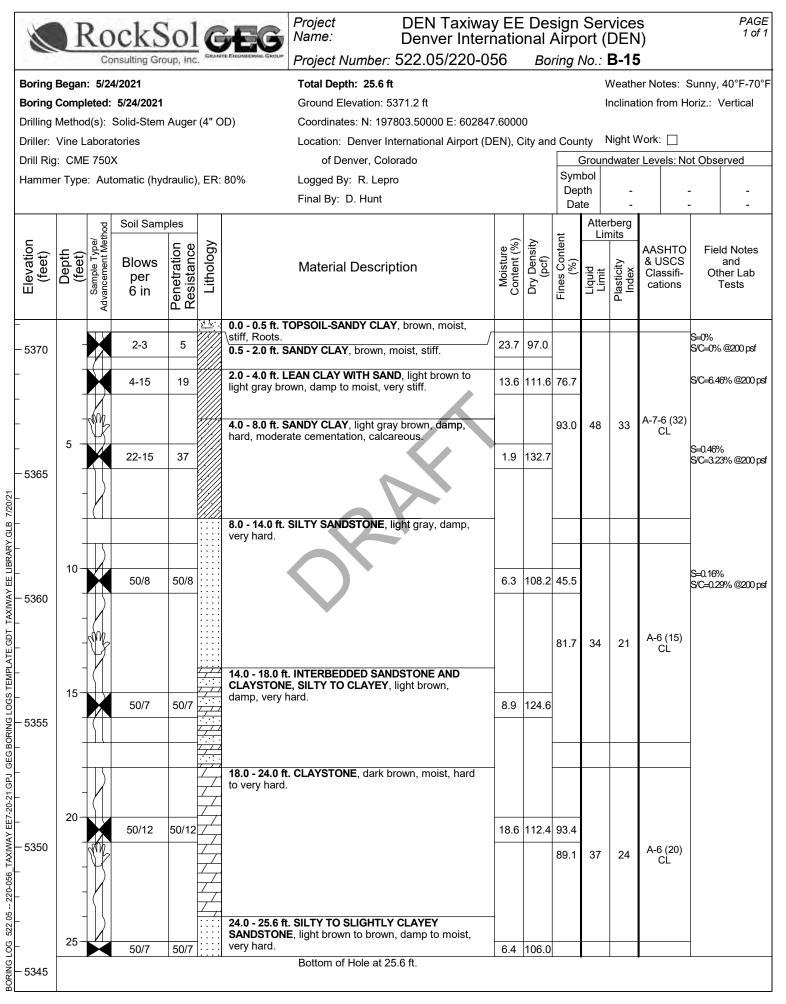


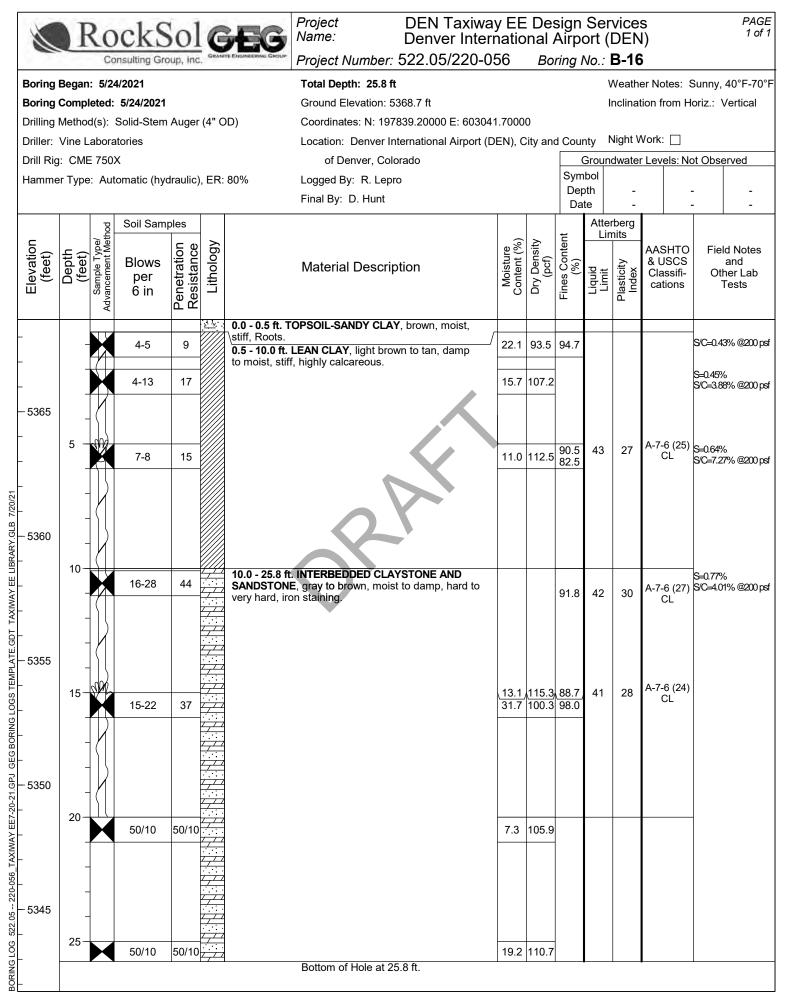


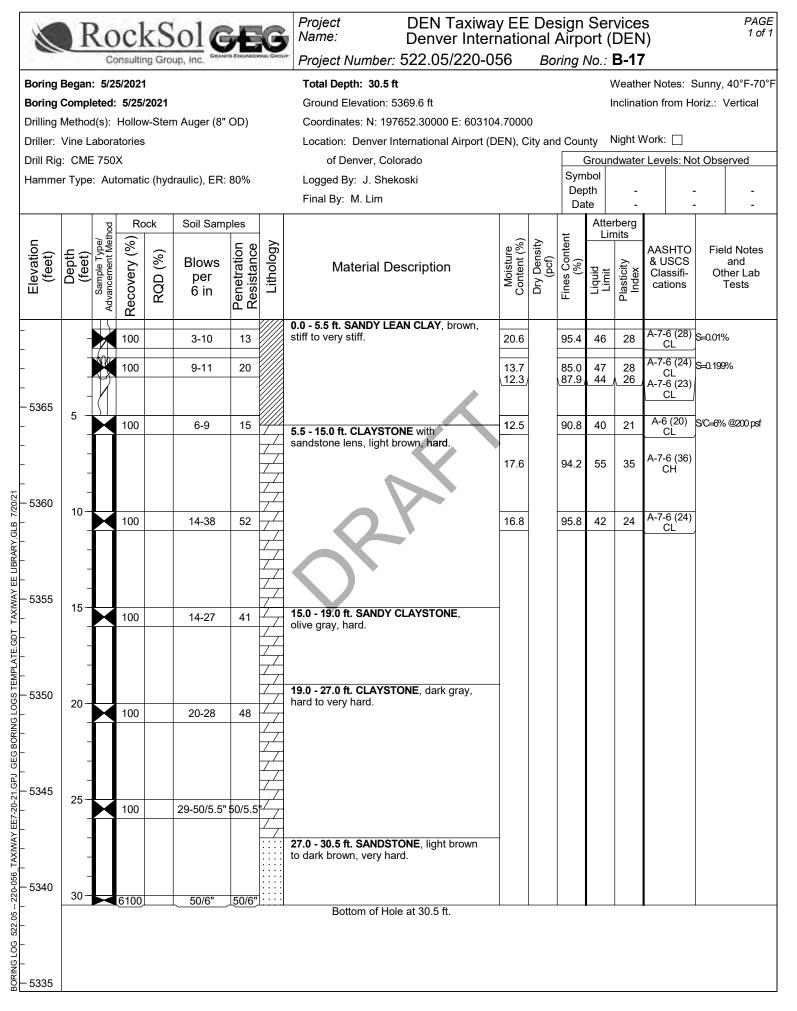


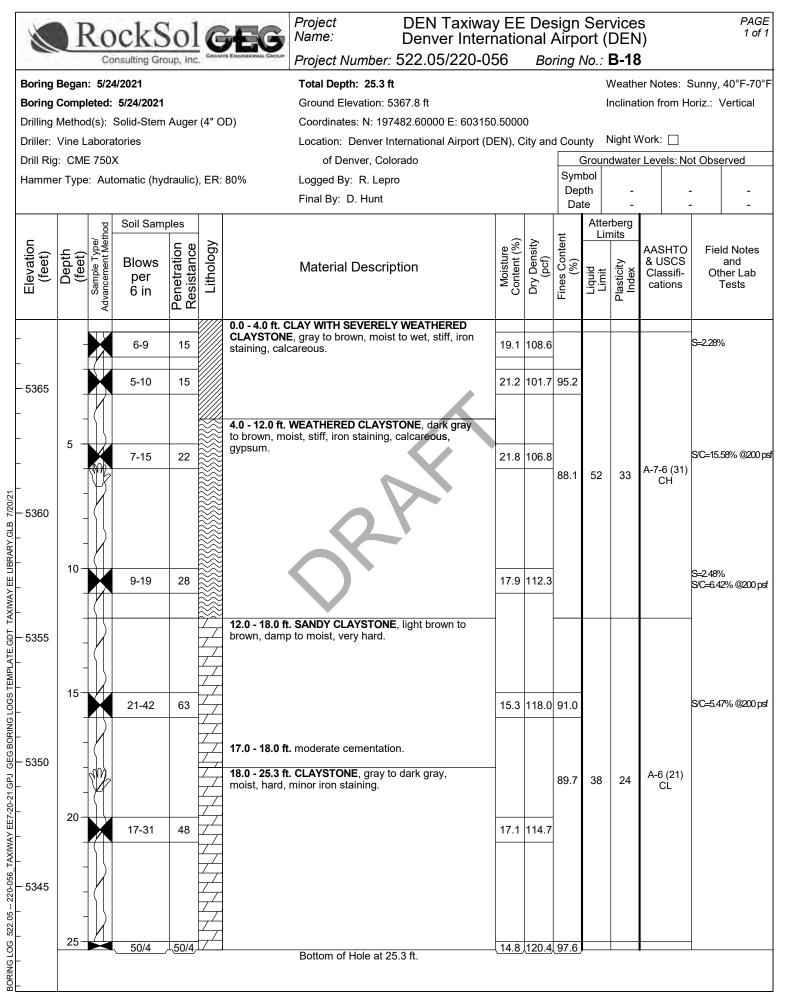


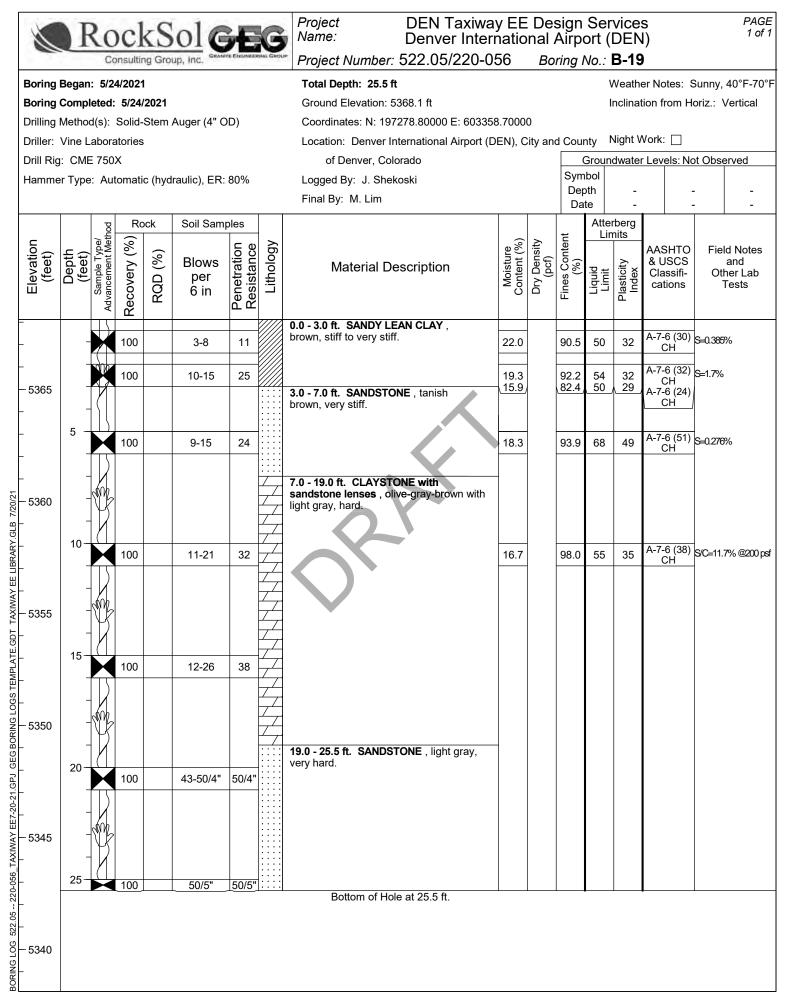
X	I	20	ocl	<s< th=""><th>olG</th><th>4</th><th>C</th><th>Project DEN Taxiwa Name: Denver Inter</th><th>y EE natio</th><th>Des</th><th>sign Airpo</th><th>Sei ort (</th><th>vice: DEN</th><th>s I)</th><th>PAGE 1 of 1</th></s<>	olG	4	C	Project DEN Taxiwa Name: Denver Inter	y EE natio	Des	sign Airpo	Sei ort (vice: DEN	s I)	PAGE 1 of 1	
-		_	_	_	up, Inc. GRANN	ENGINEER	ING GROU	Project Number: 522.05/220-0					B-14			
Boring	g Begar	n: 5/2	5/202 ⁻	1				Total Depth: 30.3 ft					Weath	er Notes:	Sunny, 40°F-70°	
Boring	g Comp	leted	5/25	2021				Ground Elevation: 5370.7 ft Inclination from Horiz.: Vertical							oriz.: Vertical	
Drilling	g Metho	d(s):	Hollov	<i>w</i> -Sten	n Auger (8"	OD)		Coordinates: N: 197842.80000 E: 60264	tes: N: 197842.80000 E: 602648.00000							
Driller:	Vine I	abora	atories	;				Location: Denver International Airport (D	ernational Airport (DEN), City and County Night Work:							
Drill R	ig: CM	E 750	х					of Denver, Colorado				Groundwater Levels: Not Observed				
Hammer Type: Automatic (hydraulic), ER: 80%								Logged By: J. Shekoski				bol				
								Final By: M. Lim				Depth Date				
		σ	R	Rock Soil Sam		ples							rberg			
_		Sample Type/ Advancement Method	-			1	~		(9	≳	ent		nits			
Elevation (feet)	Depth (feet)	ent N	Recovery (%)	(%	Blows	Penetration Resistance	Lithology	Material Description	Moisture Content (%)	Dry Density (pcf)	Fines Content (%)		,	AASHTO & USCS	Field Notes and	
(fe	(fe	ceme	Ver	RQD (%)	per	etra ista	itho	Material Description	Mois	م ق م	es C (%	Liquid Limit	Plasticity Index	Classifi- cations	Other Lab Tests	
ш		dvan	000	RO	6 in	en Res			-ŭ	ā	Fin		Pla	Cations	10313	
		₹	ř					0.0 - 3.0 ft. LEAN TO FAT CLAY ,								
- 5370			100		3-5	8		brown, stiff.	19.6		93.6	42	24	A-7-6 (23) CL	S=0.002% S/C=0.8% @200 psf	
-										-					S/C=1.2% @200 psf	
-		Å)	100		3-7	10	, And the second s	3.0 - 8.0 ft. SANDY LEAN CLAY, olive	14.8		89.6 90.4	52 42	34 1 25	CH A-7-6 (23)		
-	-	IN.						gray to light brown, hard.						CL		
-	5 -		400		0.00	00			45.5			10	00	A-6 (9)	S=0.215%	
- 5365	-		100		9-29	38			15.5	-	55.5	40	22	A-6 (9) CL	S/C=7.7% @200 psf	
-	-								1							
-								8.0 - 12.0 ft. SILTY SAND, light gray,	-							
2	-							very dense.								
	10-		100		28-50/5"	50/5"										
9 – 5360	-	\square	100		20-30/3	00/0										
							·1.1.	12.0 - 30.3 ft. CLAYSTONE with	1							
9 - 5360	-		100		19-50/5"	50/5"	Ζ,	cemented sandstone lens, light gray to gray + white, hard to very hard.								
	-						Ζ,	, , , , , , , , , , , , , , , , , , ,								
₹ 	15-	17					Ζ,									
0000	-						Ζ,									
	-	192					Ź,									
	-	181					Ζ,	- dry core sampler refusal in cemented sandstone @ 18'.								
2	-	115					Ζ,	sandstone @ 18.								
5350	20-		100		_ 50/5.5"	50/5.5	'/									
	-	П					7									
	-	M					7									
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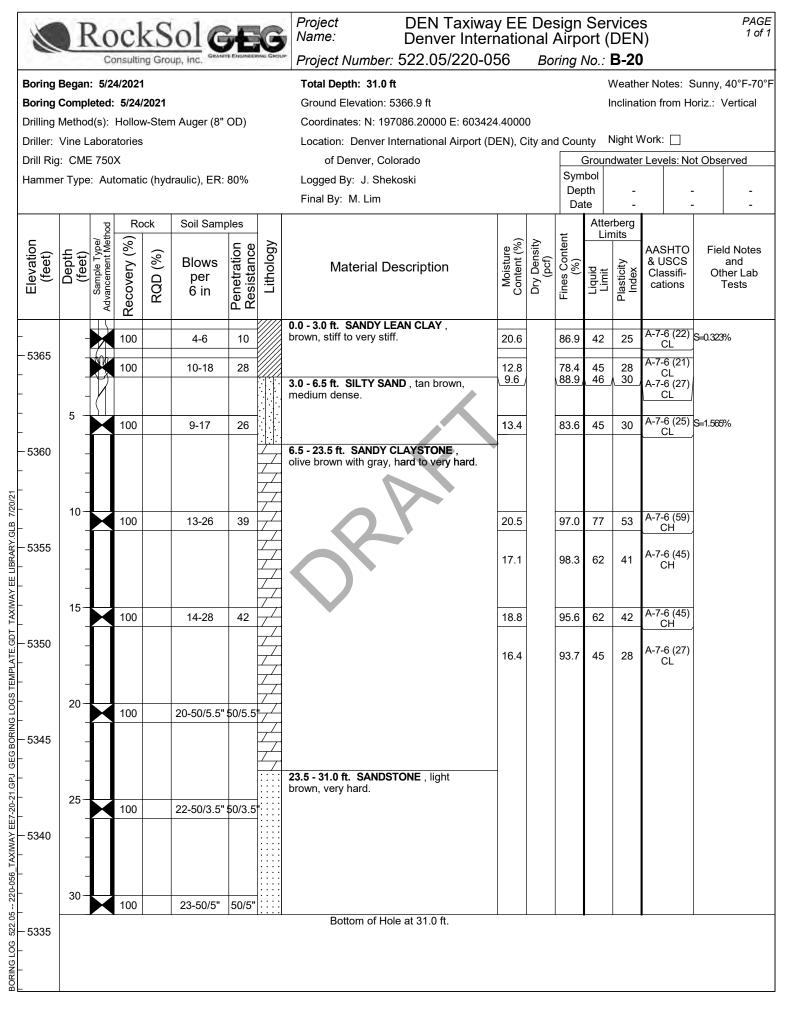


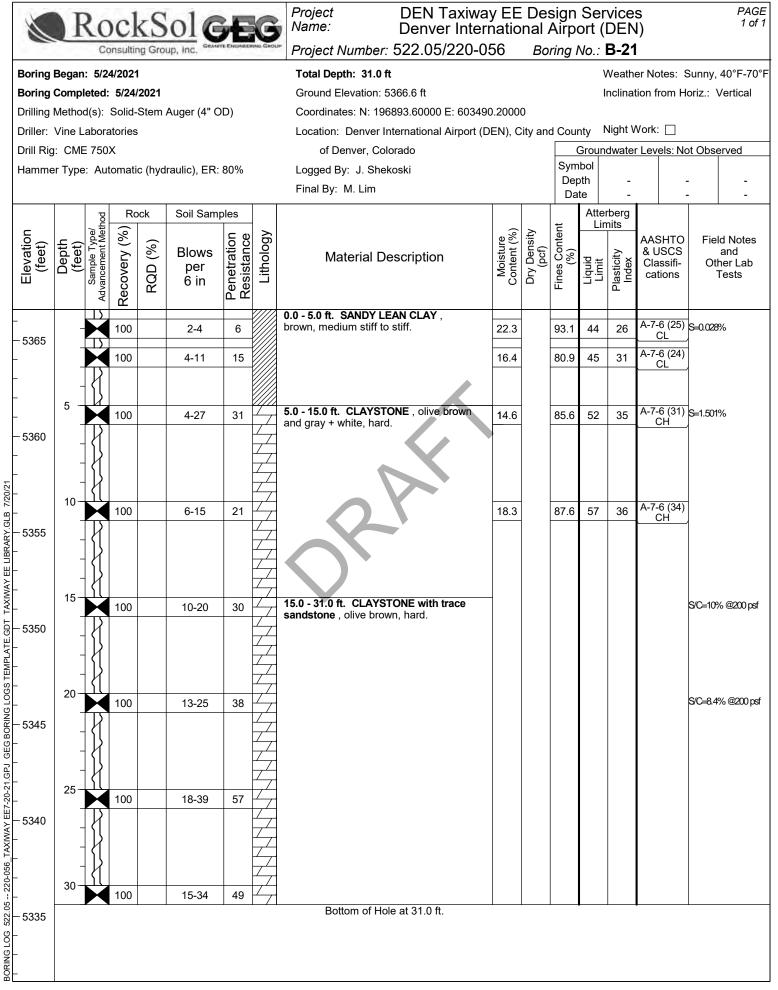




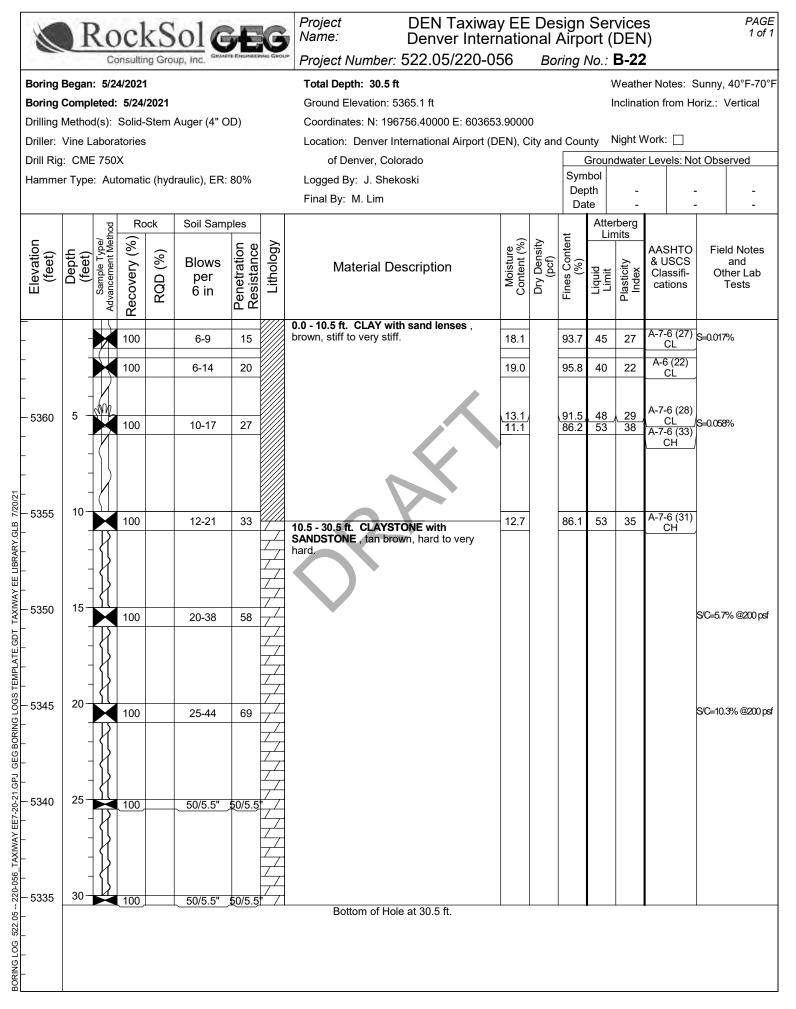


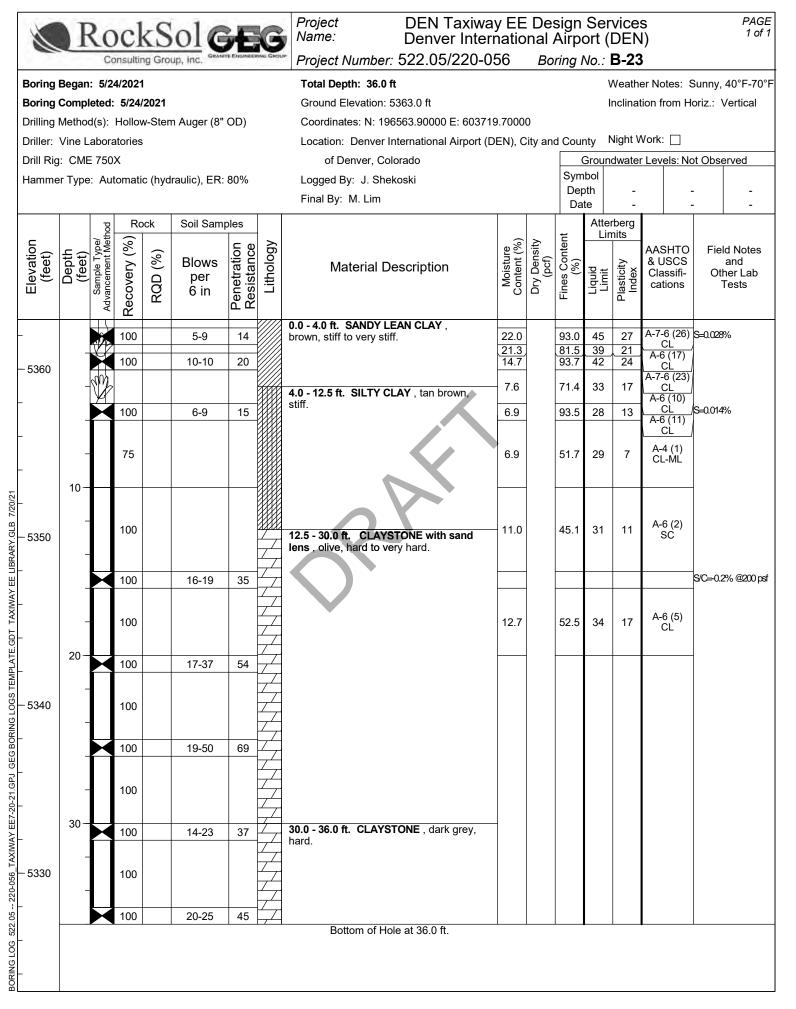






522.05 -- 220-056_TAXIWAY EE7-20-21.GPJ









July 19, 2021

Project No. 522.05/220-056

Jviation, A Woolpert Company Mr. Benito Gonzales, PE 720 South Colorado Blvd., Ste 1200-S Glendale, CO 80246

Subject: Memorandum for Borrow Source Study Addendum No. 2 (7-21-21) For Taxiway EE Select Embankment Material Denver International Airport, Colorado

Dear Mr. Gonzales:

Rocksol Consulting Group, Inc. (Rocksol) and Granite Engineering Group, Inc. (GEG) are currently performing the borrow source study for the proposed Taxiway EE at Denver International Airport in Denver, Colorado. A potential borrow source area has been identified and is presented in Figure 1.

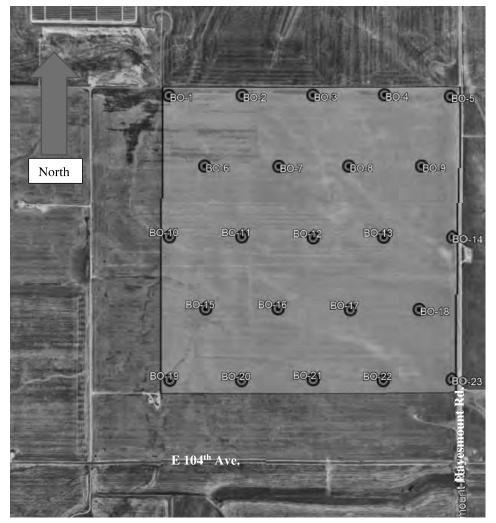


Figure 1. Borrow Source Study Area and Boring Locations

Memo for Borrow Source Study (Addendum No. 2, 7-21-21) Taxiway EE Select Embankment Materials

A total of twenty-three (23) borings are currently planned for the borrow source study. The field drilling is being performed during the week of 7-19-21 and will take two (2) days to complete. Additional borings may be performed to focus on the areas where suitable materials are observed during field exploration. These boring locations are also presented in Figure 1. The laboratory testing will consist of soil classifications (gradation, Atterberg Limits), soluble sulfate content, proctor and swell potential and will be completed within 15 business days after the field exploration is completed. The test results will be used to evaluate the suitability of the materials for use in lower zone and upper zone select embankment materials per DEN P-152 Specifications.

A preliminary desktop evaluation of the borrow materials has been performed by RockSol and GEG using the United States Geologic Survey (USGS) "Geologic Map of The Greater Denver Area, Front Range Urban Corridor, Colorado, 1979", and the Websoil Survey provided by United States Department of Agriculture, Natural Resources Conservation Service (NRCS). The preliminary desktop evaluation presented herein is to provide preliminary information for identifying potential borrow sources for upper and lower zones embankment materials.

Based on the USGS geologic map, the borrow source study area is located within the Windblown Sand (Qes) and Post-Piney Creek and Piney Creek Aluvium (Upper Holocene) (Qp) formations. The Windblown Sand formation consists of fine to medium sand derived mainly from alluvium of major streams and distributed east and southeast of source area by wind. The Post-Piney Creek and Piney Creek Alluvium consists of gravel, sand, silt, and clay of modern stream flood plains.

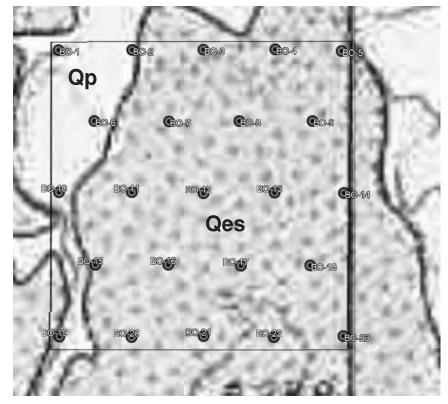


Figure 2. USGS Formation Map

Based on the NRCS soil survey, the surficial soil series within the borrow source study area consists of Ascalon (AsB, AsC, AsD), Vona (VnD), Nunn (NIB), and Platner (PIB, PIC) series. The Ascalon series is comprised of fine sandy loam with some clay soils, the Vona series is comprised of sandy loam to loamy sand, the Vunn series is comprised of clay loam, and the Platner series is comprised of sandy loam. The Ascalon and Vona series are believed to be suitable for DEN P-152 upper zone embankment, the Platner series may be suitable for DEN P-152 upper zone

Memo for Borrow Source Study (Addendum No. 2, 7-21-21) Taxiway EE Select Embankment Materials

embankment, and the Vunn series may <u>not</u> be suitable for DEN P-152 upper zone embankment, but potentially will be suitable for DEN P-152 lower zone embankment materials. The Ascalon and Vona series are mainly located on the east half of the borrow source study area and the upper zone embankment materials may come from this area.

The materials in the borrow source study area likely suitable for DEN P-152 upper zone embankment materials are presented in Figure 3. It is important to note that the suitability of the material is based on the USGS geologic map and NRCS soil survey, and will be further evaluated by the borrow source study. The results of the borrow source study should be used for identifying the excavation limits of the borrow source both horizontally and with depth.

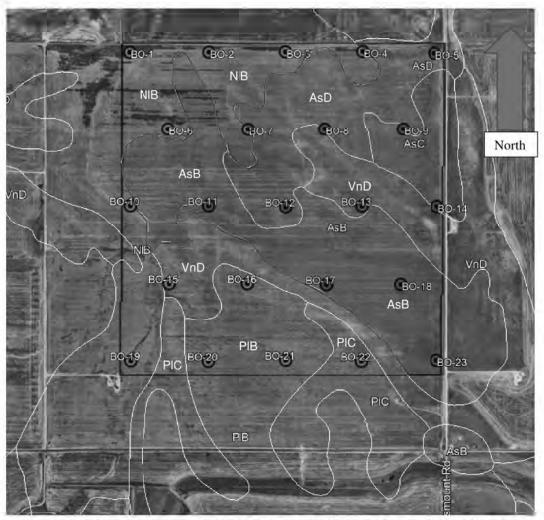


Figure 3. Potential Suitable Materials for Upper Zone Embankment Materials

Construction Quality Program

The borrow source study is being performed to assist the owner, design team and contractors to identify a potential source, or sources, of suitable upper zone and lower zone embankment materials per DEN P-152 requirements. The borrow source study was performed in a relatively large area to evaluate a "global" condition of the potential borrow source. After the contractor identifies the exact layout of the borrow source based on this study and other factors (mobilization, ease of access, permit, availability of materials, etc.), additional evaluation should be performed by contractor to confirm that the materials within the proposed borrow source meet the DEN P-152 embankment materials requirements. The additional evaluation should be performed in a

Memo for Borrow Source Study (Addendum No. 2, 7-21-21) Taxiway EE Select Embankment Materials

grid pattern with borings spacing not more than 100 feet. The borings should be drilled to 5-feet below the bottom of the planned excavation, and laboratory testing should be planned to evaluate the properties of each strata encountered in these borings.

Limitations

The comments and recommendations presented in this memorandum are based upon the available information, and other information discussed in this memo. The final suitability of the borrow source should follow the results of our borrow source study and confirmation testing performed by the contractor.

This memorandum was prepared in substantial accordance with generally accepted standards of practice for geotechnical engineering in Colorado. No warranties, express or implied, are intended or made.

Respectfully, ROCKSOL CONSULTING GROUP, INC. GRANITE ENGINEERING GROUP, INC.

Hai Ming Lim, PE Project Manager

igitally signed by Donald G Donald Hunt DN: cn=Donald G. Hunt, o=RockSol Consulting Grou G. Hunt^{ensl}-hunt@rocksol.com, Date: 2021.07.21 09:41:17

Donald Hunt, PE Project Manager



July 22, 2021

Taxiway EE Construction

IFB NO. 202158849

ADDENDUM NUMBER 3

This Addendum Number 3 supersedes and/or supplements all portions of the Bid Documents with which it conflicts. Proposers must acknowledge receipt of this addendum in the Attachment 1 Part 1 Bid Acknowledgement Letter.

Tony Deconincle

Tony Deconinck Contract Administrator Contract Services





DENVER INTERNATIONAL AIRPORT

TAXIWAY EE CONSTRUCTION

IFB NO. 202158849

ADDENDUM NUMBER 3

Note: Addendum No. 3 was issued as there was a slight problem when Addendum 2 was published; not all of the answers posted because of a quirk of BidNet that some of the responses were "saved" but not marked as "ready for publication". This error was discovered and the remainder of the answers were published officially on BidNet, which automatically generates an addendum whenever questions are answered.

The total number of pages (including cover sheet) contained in this Addendum Number 3 is two (2).

* * * * * * *

End of Addendum Number 3





INVITATION FOR BID

TAXIWAY EE CONSTRUCTION CONTRACT NO. 202158849

July 1, 2021

DENVER INTERNATIONAL AIRPORT

BID SUBMITTAL REQUIREMENTS

The following is a checklist for reference when compiling the Bid submission. The documents listed below are required:

- Bid Forms all complete and signed
 - ✓ Bid Letter filled out completely and acknowledge all addenda
 - ✓ Bid Data Forms all forms completed and submitted

 - ✓● Form W-9
 - ✓ Certificate of Good Standing
 - ✓ Bid Bond (scan of executed bid bond in submittal)
- DSBO Forms
 - Commitment to DBE Participation
 - ✓ Form 1A List of Proposed Subcontractors, Subconsultants, and/or Suppliers
 - ✓ Letter(s) of Intent
- Diversity Survey
 - Diversity and Inclusiveness in City Solicitations (online survey include the completed survey with your Bid submission)
- Financial Forms
 - Schedule of Prices/Values and Quantities

XXI. Appendix A – Contract Provisions:

- Section A4.3.2 Certificate of Buy American Compliance for Total Facility
- Section A4.3.3 Certificate of Buy American Compliance for Manufactured Products

Ν

Page 33 Attachment 1, Part 1 Bid Acknowledgement Letter

VI. ATTACHMENT 1, BID FORMS

Attachment 1, Part 1 Bid Acknowledgement Letter

CONTRACT NAME: Taxiway EE Construction Contract No.: 202158849 Bid Letter

BIDDER Flatiron Constructors, Inc.

Chief Executive Officer City and County of Denver Business Management Services (Procurement) Office Airport Office Building, Room 8810 Denver International Airport 8500 Peña Boulevard Denver, Colorado 80249

This letter is in response to the Notice of Invitation for Bids first published on July 1, 2021, for Contract No. 202158849, Denver International Airport, Taxiway EE Construction.

This contract is for: construction of a new taxiway (TW) EE and associated infrastructure. This taxiway will be located north and parallel to existing Taxiway ED, leading from Taxiway L, across Taxiway M, eastbound to the departure threshold of Runway 17L via extended Taxiway P7. The scope of work will include grading, drainage, utility relocation, airfield paving, airfield pavement marking, airfield electrical, and signage.

The undersigned Bidder declares that it has carefully examined the location of the proposed work and has carefully read and examined all of the Contract Documents which include, but are not limited to, the Contract Drawings, Technical Specifications, Construction Contract General Conditions, Special Conditions, Instruction to Bidders, and EEO provisions, and hereby proposes to furnish all labor, materials, equipment, tools, transportation and services, and to discharge all duties and obligations necessary and required to perform and complete the Work as required in the Contract Documents which are provided herewith and by this reference made a part hereof for the prices shown in the bid forms and totaled below:

TOTAL BASE BID Amount: Forty two million four hundred five thousand six hundred

forty three				
		Dollars and	Ninety	Cents
\$ 42,405	<u>,643.90</u>).	Constant and	antia Romon	- Canc.

The undersigned acknowledges receipt, understanding and full consideration of the following addenda to the Contract Documents:

Addenda Nos.: 1, 2, 3

The undersigned agrees that this bid is a firm offer to the City to perform and complete the Contract described above which cannot be withdrawn for one hundred twenty (120) calendar days after the bids are opened or until after a contract for the work described in these bid documents is fully executed by the City, whichever date is earlier.

The undersigned Bidder hereby agrees to appear at Denver International Airport, Business Management Services Office, Room 8810, Airport Office Building, at any time within ten (10)) business days from the date of a written notice from the CEO to do so, mailed, emailed, or faxed to the business address of Bidder and at that time the Bidder shall: (1) deliver an executed Contract which conforms with this bid; (2) furnish the required performance and payment bonds in the sum of the Total Contract Bid Amount shown above, executed by a surety company acceptable to the CEO; and (3) furnish the required insurance documents.

Enclosed herewith is a bid guarantee, as defined in the Instructions to Bidders, in the amount of which bid guarantee the undersigned Bidder agrees is to be paid to and become the property of the City as liquidated damages should the bid be considered to be the best by the City and the undersigned Bidder notified that it is the apparent low bidder and it fails to enter into contract in the form prescribed and to furnish the required performance and payment bonds and evidences of insurance within ten (10) business days as stipulated above.

Attached and incorporated herein are the proposed Schedule of Prices and Quantities and Bid Data Forms. All of the forms must be completed. Bidder acknowledges that the City may incorporate, at its option, any or all of the data submitted by the Bidder into a contract arising out of this Bid.

The undersigned Bidder acknowledges the right of the City to waive informalities in the bids, to reject any or all bids submitted, and to re-advertise for bids.

The undersigned certifies that it has examined and is fully familiar with all of the provisions of the Contract Documents and is satisfied that they are accurate; that it has carefully checked all words and figures and all statements made in these Bid forms; and that it has satisfied itself with respect to the actual site conditions and the nature and location of the Work, the general and local conditions which may be encountered in the performance of the Work, and other matters which in any way affect the Work or the cost thereof.

[CERTIFICATION AND SIGNATURE ON FOLLOWING PAGES]

This bid is submitted upon the declaration that neither, I (we), nor, to the best of my (our) knowledge, none of the members of my (our) firm or company have either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

Dated this <u>30th</u> day of	July, <u>2021</u> .
BUSINESS ADDRESS OF BIDDER:	385 Interlocken Crescent, Suite 900
City, State, Zip Code:	Broomfield, CO 80021
Telephone Number of Bidder:	(303) 485-4050
Fax Number of Bidder:	(303) 485-7684
Social Security or Employer Id. No. of Bi	dder: <u>84-1245002</u>
Email Address:	mountaincentral@flatironcorp.com
SIGNATURE OF BIDDER:	PRINT NAME OF BIDDER:
Attest:	Flatiron Constructors, Inc.
(Corporate Seal)	By: Grant Johns
-Secretary- Kevin McCormick, Division Finance Manager	-President- Grant Johns, District Operations Manager

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints Grant Johns as an Authorized Signatory of the Corporation, effective October 26, 2020 to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 29 day of

DIRECTOR:

Adolfo Valderas, Executive Chairman

ACTION BY UNANIMOUS WRITTEN CONSENT OF THE BOARD OF DIRECTORS

FLATIRON CONSTRUCTORS, INC.

The undersigned, being the sole member of the board of directors (the "Board") of Flatiron Constructors, Inc., a Delaware corporation (the "Corporation") pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, does hereby waive all notice of the time, place and purposes of a meeting and does hereby consent to and adopt the resolutions set forth below to have the same force and effect as a unanimous vote of the directors of the Corporation at a duly-convened meeting of the Board called and held for the purpose of acting upon proposals to adopt such resolutions.

WHEREAS, the Board has determined that it is in the best interest of the Corporation to appoint certain management employees as authorized signatories with power of attorney to act on behalf of the Corporation (an "Authorized Signatory"); and

WHEREAS, such Authorized Signatories must have the authority to execute certain contracts and other instruments necessary to bind the Corporation in furtherance of the Corporation's projects and in the administration of its operations.

NOW, THEREFORE, BE IT

RESOLVED, that the Board hereby appoints Kevin McCormick as an Authorized Signatory of the Corporation, effective October 26, 2020 to act in this capacity until his authority is rescinded; and

FURTHER RESOLVED, that an Authorized Signatory of the Corporation shall have the authority to execute contracts and other instruments on behalf of the Corporation in accordance with internal policies and procedures, and shall perform such other duties and exercise such other powers as assigned to him by the Board, the Chief Executive Officer, Chief Financial Officer the Chief Operating Officer, or other Officers of the Corporation.

IN WITNESS WHEREOF, the undersigned has executed this Written Consent the 25th day of 2020.

DIRECTOR: alduas

Adolfo Valderas, Executive Chairman

Attachment 1, Part 2 Disclosure of Legal and Administrative Proceedings and Financial Condition

City and County of Denver Denver International Airport (Please use this form)

If no disclosure required in accordance with II-13, please sign affirmation statement.

The undersign affirms that <u>Flatiron Constructors, Inc</u> (Bidder) has not been involved in any legal or administrative proceedings which involve a claim in excess of Fifty Thousand Dollars (\$50,000.00); has not filed bankruptcy within the last ten (10) years; has not been debarred or suspended from bidding/proposing on any Federal, State or local government procurements; and neither the Bidder nor its key employees have been convicted of a bid/Bid-related crime, violation or felony in the last five (5) years.

Signature	Title District Operations Manager
Print Name Grant Johns	
Date 07/30/2021	

If disclosure is required in accordance with II-13, please use the following space to provide information. If additional space is needed, please attach additional pages.

Please see attached list regarding any legal or administrative proceedings.

CONFIDENTIAL/PRIVILEGED

Flatiron Constructors, Inc.'s ("Flatiron") focus is on client relationships and our commitment to excellence. However, as with any general contractor with a volume of business consistent of Flatiron's size, claims leading to litigation and arbitration may occur. We have no litigation or arbitration which could, if adversely determined, have a material adverse effect on the solvency of Flatiron.

Litigation and Arbitration* Over Past Five Years:

Name of Matter: UDOT, State of Utah v. Flatiron/Harper, a JV; Flatiron Constructors, Inc.; et al (SR-92) Date Commenced: 4/6/2015

Court / Docket No.: 1503000055, District Court in Utah County, State of Utah

Parties: Utah Department of Transportation, State of Utah v. Flatiron/Harper, a JV; Flatiron Constructors, Inc.; Harper Contracting, Inc.; Travelers Casualty and Surety; Federal Insurance Co.; Fidelity and Deposit Co.; Zurich American Insurance Co. Issue: Project owner brought suit against FHJV for alleged workmanship issues. FHJV counterclaimed for delay damages and unpaid change orders.

Status: Settled and dismissed.

Name of Matter: URS Corporation v. Flatiron Constructors, Inc., et al. (I-405) Date Commenced: 2/26/2016

Court / Docket No.: 16-2-04770-34; Superior Court in the County of Thurston, State of Washington

Parties: URS Corporation v. Flatiron Constructors, Inc.; Washington State Department of Transportation; Liberty Mutual Insurance Company; Travelers Casualty and Surety Company of America; Fidelity and Deposit Company of Maryland/Zurich American Insurance Company; Federal Insurance Company; The Continental Insurance Company; XL Specialty Insurance Company

Issue: Suit brought by designer against Flatiron on a design/build project alleging nonpayment. Flatiron has counterclaims against designer for design performance issues.

Status: Settled.

Name of Matter: A.H. Beck Foundation Co., Inc. vs. Flatiron Constructors, Inc. (Carolina Bays) Date Commenced: 10/13/2016

Court / Docket No.: 2016-CP-26-06534, Horry County Court of Common Pleas, State of South Carolina Parties: A.H. Beck Foundation Co., Inc. v. Flatiron Constructors, Inc.; Liberty Mutual; Travelers Casualty; Fidelity & Deposit Co.; Zurich American Insurance Co.; Federal Insurance Co.: Continental Insurance Co.; XL Specialty Insurance Issue: Breach of contract action brought by subcontractor against Flatiron for payment withheld by Flatiron due to performance issues.

Status: Resolved prior to answering.

Name of Matter: Flatiron Constructors, Inc. v. Transystems Corp. (Carolina Bays) Date Commenced: 4/26/2018 Court / Docket No.: 2018CP2602633, Horry County Court of Common Pleas, State of South Carolina Parties: Flatiron Constructors, Inc.; Transystems Corporation Issue: Flatiron claims damages from Owner's representative. Status: Matter stayed.

Name of Matter: Van's Equipment v. Cherry Creek Recycling; Flatiron Constructors; et al – Bond Claim (Pena) Date Commenced: 12/19/2016

Court / Docket No.: 2016CV34309, Denver City and County District Court, State of Colorado Parties: Van's Equipment Denver LLC v. Cherry Creek Recycling, LLC; Asset Acquisition Authority, Inc. d/b/a Regional Transportation District; Denver Transit Constructors, LLC; Zurich American Ins. Co.; Travelers Casualty and Surety Co.; Federal Ins. Co.; Liberty Mutual Ins. Co.; City and County of Denver; American Southern Home Ins. Co. and Flatiron Constructors, Inc. Issue: Action filed by second tier subcontractor against Flatiron and its subcontractor for payment against bond. Status: Settled and Dismissed.

Name of Matter: Site Development v. Consulting Engineers; URS; Flatiron Constructors et al. – Bond Claim (I-405) Date Commenced: 02/15/2017

Court / Docket No.: 18-2-00602-34, Thurston County Superior Court, State of Washington

Parties: Site Development Associates, LLC d/b/a SDA Engineers v. KPFF, Inc. d/b/a Consulting Engineers; URS Corp.; Flatiron Constructors, Inc.; WA State Dept. of Transportation; Liberty Mutual Ins. Co.; Travelers Casualty and Surety Co. of America; Fidelity and Deposit Co. of MD/Zurich American Ins. Co.; Federal Ins. Co.; The Continental Ins.; XL Specialty Ins. Issue: Action filed by Subcontractor for claim against bond. Status: Settled.

Name of Matter: Concrete Coring Co. v. Cherry Creek Recycling; Flatiron Constructors, Inc., et al. – Bond Claim (Pena) Date Commenced: 6/6/2017

Court / Docket No.: 2017CV033033; District Court, City and County of Denver, State of Colorado Parties: Allison & Hainey, Inc. d/b/a Concrete Coring Company v. Cherry Creek Recycling, LLC; Flatiron Constructors, Inc.; Liberty Mutual Insurance Company; and City and County of Denver Issues: Action filed by second tier subcontractor against Flatiron and its subcontractor for payment. Status: Dismissed.

Name of Matter: Concrete Coring Co. v. Cherry Creek Recycling; Flatiron Constructors, Inc., et al. – Bond Claim (Pena) Date Commenced: 6/6/2017

Court / Docket No.: 2017CV033033; District Court, City and County of Denver, State of Colorado Parties: Allison & Hainey, Inc. d/b/a Concrete Coring Company v. Cherry Creek Recycling, LLC; Flatiron Constructors, Inc.; Liberty Mutual Insurance Company; and City and County of Denver Issues: Action filed by second tier subcontractor against Flatiron and its subcontractor for payment. Status: Dismissed.

Name of Matter: William D. Hillen, a Corporation v. Flatiron Constructors, Inc. Date Commenced: 8/30/2018 Court / Docket No.: 2018CV31536; District Court, County of Adams, State of Colorado Parties: William D. Hillen, a Corporation v. Flatiron Constructors, Inc. Issues: Action filed by subcontractor arising out if its performance. Status: Settled.

Name of Matter: Codale Electric Supply v. Voltiac, et al. (SR 89) Date Commenced: 10/27/2015

Parties: Flatiron Construction, Inc.; Voltiac

Issues: Flatiron was the general contractor on the project. Voltiac was subcontractor. Codale was supplier to Voltiac. Voltiac did not pay Codale. Codale sued Voltiac and Flatiron's bond. Flatiron paid off claim against bond and received an assignment of the claim against Codale. Flatiron now has a judgment against Voltiac that it is trying to collect. Judgment received by Flatiron against subcontractor for amounts Flatiron paid subcontractor's supplier. Action to enforce judgment is ongoing. **Status:** Judgment received by Flatiron.

Name of Matter: Horizontal Boring v. Flatiron Constructors, Inc. et al.

Date Commenced: 12/06/2018

Parties: Horizontal Boring; Flatiron Constructors, Inc.; Liberty Mutual Insurance Company; Travelers Casualty and Surety Company of America; Fidelity and Deposit Company of Maryland Zurich American Insurance Company; Federal Insurance Company; Pacific Indemnity Company; The Continental Insurance Company; Berkshire Hathaway Specialty Insurance Company. Issues: A boring subcontractor, who was default terminated by Flatiron, claims their boring efforts were impacted by poor permeation grouting. Flatiron has counterclaimed for damages incurred to address the subcontractor's failure to perform. Status: Settled.

Name of Matter: Florida Miscellaneous Steel Products, Inc., d/b/a Florida Structural Steel; Tampa Tanks & Welding, Inc., d/b/a Tampa Tank, Inc. v. Flatiron Constructors, Inc.

Date Commenced: 4/03/2019

Parties: Florida Miscellaneous Steel Products, Inc., d/b/a Florida Structural Steel; Tampa Tanks & Welding, Inc., d/b/a Tampa Tank, Inc. and Flatiron Constructors, Inc.

Issues: Steel fabricator and erector asserted claims against Flatiron Constructors, Inc. for monies allegedly owed for work performed. Flatiron Constructors, Inc. has a claim against the Plaintiffs for impacts suffered due to Plaintiffs' poor performance.

Status: Settled.

Name of Matter: SAK Sisters Contractors v. Flatiron Constructors, Inc.

Date Commenced: July 19, 2019

Parties: SAK Sisters Contractors; Flatiron Constructors, Inc.

Issue: A flagging contractors, who failed to perform and provide required contractual obligations in relation to payroll, filed suit to recover monies that it contended were owed.

Status: Settled.

Name of Matter: Arrow Electric Service, Inc. v. Flatiron Constructors, Inc. et al.

Date Commenced: November 12, 2019

Parties: Arrow Electric Service, Inc., Flatiron Constructors, Inc., Liberty Mutual Insurance Company, Travelers Casualty and Surety Company of America, Continental Insurance Company, The Continental Insurance Company, Federal Insurance Company, Fidelity and Deposit Company of Maryland, Zurich American Insurance Company, XL Specialty Insurance Company, and Berkshire Hathaway Specialty Insurance Company

Issue: Subcontractor alleged Flatiron owed it monies for work performed; Flatiron had counterclaim for impacts caused by subcontractor's performance.

Status: Settled.

Name of Matter: Blue Ribbon Staffing, Inc. v. Flatiron Constructors, Inc et al.

Date Commenced: April 23, 2020

Parties: Parties: Arrow Electric Service, Inc., Flatiron Constructors, Inc., Liberty Mutual Insurance Company, Travelers Casualty and Surety Company of America, Continental Insurance Company, The Continental Insurance Company, Federal Insurance Company, Fidelity and Deposit Company of Maryland, Zurich American Insurance Company, and Berkshire Hathaway Specialty Insurance Company

Issue: Plaintiff alleged it provided services to a subcontractor of Flatiron who was terminated. Plaintiff alleges it was not paid. Flatiron and its bonding company denied the claim.

Status: Pending

Name of Matter: Flatiron Constructors, Inc v. Colorado Department of Transportation

Date Commenced: November 10, 2020

Parties: Flatiron Constructors, Inc. and Colorado Department of Transportation

Issue: Flatiron claims it suffered cost and schedule impacts arising from to CDOT's inability to obtain an right-of-way CDOT was obligated to provide.

Status: Pending

*Above does not include insured personal injury or auto-related death, litigation/arbitration involving joint ventures or employment related litigation.

Attachment 1, Part 3 Contract Information

- 1. Name of Bidder/Contractor: Flatiron Constructors, Inc.
- 2. Type of business entity: Corporation

NOTE: If bidder is a partnership or joint venture, give full names of all partners or joint venturers. Bid must be signed by all joint venturers. If bidder is a limited liability company, bid must be signed by authorized manager (may be signed by member-manager if LLC is organized to allow management by members).

3. of De	Prequalified by City and County enver as Construction Contractor :	Categories: 3C. Concrete Airfield Paving
		(see attached annual prequalification letter Monetary Limit: <u>\$50,000,000 and project specific permission letter.</u>)
4.	Address of Contractor:	Flatiron Constructors, Inc.
		385 Interlocken Crescent, Suite 900
		Broomfield, CO 80021
	Telephone: <u>303-485-4050</u>	Fax: <u>303-485-7684</u>
		Email Address: mountaincentral@flatironcorp.com
5.	Established where and when:	Delaware, 1999
6.	Contractor's Banks:	J.P. Morgan Chase Bank

7. Principal Officers of Contractor (managers and members if LLC):

Name: Nick Polce	Name: Grant Johns	
Vice President & Division Manager Title:Officer	Title: District Operations Manager	
Name: Keven McCormick	Name:	

Title: Division Finance Manager

Title:

Page 38 Attachment 1, Part 3 Contract Information

 Bidder's/Contractor's City and County of Denver Contractor License if it has obtained one:

License No.:	

Class:

A contractor license is required prior to start of construction but not prior to bid submittal.

 Bidder's/Contractor's state of incorporation (state of organization if an LLC or partnership): Delaware

10.	Bidder's Surety:	Liberty Mutual
11.	Surety's State of Incorporation:	Delaware
12.	Address of Contractor in other areas (if different from No. 4):	N/A
13.	Name and address of person to	W. Todd Bennett, Treasurer
	receive payments:	385 Interlocken Crescent, Suite 900
		Broomfield, CO 80021

14. If the Bidder/Contractor is a joint venture, it shall attach a certified copy of the joint venture agreement. The joint venture agreement will not be included as a Contract Document.

15. The Bidder/Contractor shall identify all applicable labor agreements (if any) to be used in the performance of the Work:

General Wage Decision No. CO2020009 Superseded General Decision No.

CO20200009 Modification No. 0 Publication Date: 01/01/2021



July 20, 2021

Ms. Katie DePorter Flatiron Constructors, Inc. 7001 Tower Road Denver, CO 80249

Dear Ms. DePorter:

The Contractor's Prequalification Board has reviewed the Project Specific Permission Application submitted by your firm. The Board has recommended that your firm be allowed to bid on the upcoming Taxiway EE Construction project at DEN. The Executive Director of the Department of Aviation and I have reviewed the recommendation and approve your prequalification.

Compliance with the "Rules for Prequalification of Construction Contractors" with the Departments of Aviation and Public Works of the City and County of Denver is necessary in order to ensure acceptable bids. Should you wish to bid on any other project in which the cost of construction is estimated to exceed your bid limit, or if you intend to participate in excess of \$1,000,000 in a joint venture, you must submit a written request for further consideration by the Prequalification Board.

We appreciate your interest in bidding on City and County of Denver contracts and look forward to working with you in the future. Should you have any questions concerning the prequalification process, do not hesitate to contact us at Doti.prequal@denvergov.org.

Sincerely,

Adam Phipps, Executive Director Department of Transportation & Infrastructure

cc: Prequalification Board File

City and County of Denver Department of Transportation & Infrastructure Office of the Executive Director 201 W. Colfax Avenue, Dept. 608 | Denver, CO 80202 www.denvergov.org/doti Phone: 720-865-8630

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July 12, 2021

Ms. Katie DePorter Flatiron Constructors, Inc. 7001 Tower Road Denver, CO 80249

Dear Ms. DePorter:

The Contractor's Prequalification Board has reviewed the application submitted by your firm. The Board has recommended that your firm be allowed to bid City and County of Denver construction projects requiring approval in the following categories 1A-Heavy Civil at \$50,000,000.00, 1F(2)-Concrete Roadway Paving at \$20,000,000.00, 1F(5)-Concrete Pavement Rehabilitation at \$6,000,000.00, 1G(1)-Major Bridge Work at \$25,000,000.00, 3C-Concrete Airfield Paving at \$25,000,000.00. The Executive Director of the Department of Aviation and I have reviewed the recommendation and approve your prequalification. Your firm will not need to prequalify for bids that open prior to Thursday, June 30, 2022.

Compliance with the "Rules for Prequalification of Construction Contractors" with the Departments of Aviation and Public Works of the City and County of Denver is necessary in order to ensure acceptable bids. Should you wish to bid on any other project in which the cost of construction is estimated to exceed your bid limit, or if you intend to participate in excess of \$1,000,000 in a joint venture, you must submit a written request for further consideration by the Prequalification Board.

We appreciate your interest in bidding on City and County of Denver contracts and look forward to working with you in the future. Should you have any questions concerning the prequalification process, do not hesitate to contact us at 720.865.2539.

Sincerely,

Eurois Cleckley, Executive Director Department of Transportation & Infrastructure

cc: Prequalification Board File

City and County of Denver Department of Transportation & Infrastructure Office of the Executive Director 201 W. Colfax Avenue, Dept. 608 | Denver, CO 80202 www.denvergov.org/doti Phone: 720-865-8630

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Attachment 1, Part 4 List of Proposed Non-DBE Subcontractors

Bidder Company Name:	Flatiron Constructors, Inc.	
IFB Name:	Taxiway EE Construction	
IFB No.:	202158849	

Bidder shall list below the name, business address, work assignment and dollar value of each subcontractor that is **not** a DBE subcontractor that will perform work or labor or provide services to the Bidder relating to this Contract in an amount greater than one and one-half percent (1.5%) of the Bidder's total bid. Only one (1) subcontractor for each portion of the work shall be listed. Any proposed subcontractors to be utilized by the Bidder that are certified as a Small Business Enterprise (SBE) shall <u>also</u> be listed on the "List of Proposed Subcontractors" attached to this IFB.

If the Bidder does not identify a subcontractor to perform portions of the work which could be subcontracted on this form or the List of Proposed DBE Subcontractors, the Bidder, if it is awarded the Contract, agrees not to subcontract such portions that exceed one and one-half percent (1.5%) of the total bid amount until the Contractor has advised the SVP of AIM in writing of the reasons why the subcontractor was not listed in the Bid submission and complied with the requirements of General Condition 502.

If the Bidder is awarded the Contract and does not enter into a subcontract with a subcontractor listed below or on the <u>List of Proposed DBE Subcontractors</u>, the Bidder agrees not to subcontract any of the work assignment identified for that subcontractor until the Bidder has advised the SVP of AIM in writing of the reasons why a different subcontractor is being used and has obtained approval.

Subcontractor Information	Work Assignment	Subcontract Dollar Value
Name: Kelley Trucking Inc.	1000	10.2.
Address: 6201 McIntyre St	Earthwork	\$ 6,261,282
Golden, CO 80403	4 102 MC 25 C	1000
Phone:		
Name: Brannan Companies		
Address: 2500 Brannan Way	Asphalt Paving	\$ 3,483,002
Denver, CO 80229	and action processing.	
Phone: 303.534.1231		

Page 40

Attachment 1, Part 4 List of Proposed Non-DBE Subcontractors

Name: Royal Electric Company		
Address: 8481 Carbide Court	Electrical Supplier	\$ 9,999,999.99
Sacramento, CA 95828		the start start strat
Phone: 916.226.2100	3.1	
Name:		
Address:	3	
Phone:		
Name:		
Address:		
Phone:	-	
Name:		
Address:		
Phone:		

This page can be duplicated if additional sheets are required

Attachment 1, Part 5 Certification of Non-Segregated Facilities

The Bidder must certify that it does not maintain or provide for its employees any segregated facilities at any of its establishments and that it does not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Bidder certifies further that it will not maintain or provide for its employees segregated facilities at any of its establishments and that it will not permit its employees to perform their services at any location under its control, where segregated facilities are maintained. The Bidder agrees that a breach of this certification is a violation of the equal opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin because of habit, local custom or any other reason. The Bidder agrees that (except where it has obtained identical certification from proposed subcontractors for specific time period) it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding Ten Thousand Dollars (\$10,000) which are not exempt from the provisions of the equal opportunity clause and that it will retain such certification in its files.

Dated: 07/30/2021

Bidder Company Name:	Flatiron Constructors, Inc.		
By	1: Aunth	Grant Johns	
Title	e: District Operations Manager		

Attachment 1, Part 6 Equal Opportunity Report Statement

The Bidder shall review, complete, sign and submit with its Bid this Equal Opportunity Report Statement (Statement). A Bid may be considered unresponsive and may be rejected, in the City's sole discretion, if the Bidder fails to provide the fully executed Statement or fails to furnish required data. The Bidder shall also, prior to award, furnish such other pertinent information regarding its own employment policies and practices as well as those of its proposed subcontractors as the FAA, the Owner or the Executive Vice Chairman of the President's Committee may require.

The Bidder shall furnish similar Statements executed by each of its first tier and second-tier subcontractors and shall obtain similar compliance by such subcontractors before awarding subcontracts. No subcontract shall be awarded to any non-complying subcontractor.

Equal Opportunity Report Statement as Required in 41 CFR 60-1.7(b)

The Bidder shall complete the following statements by checking the appropriate blanks. Failure to complete these blanks may be grounds for rejection of Bid:

- 1. The Bidder has ____ has not _X__ developed and has on file at each establishment affirmative action programs pursuant to 41 CFR 60-1.40 and 41 CFR 60-2.
- 2. The Bidder has <u>x</u> has not <u>participated</u> in any previous contract or subcontract subject to the equal opportunity clause prescribed by Executive Order 11246, as amended.
- 3. The Bidder has <u>x</u> has not <u>filed</u> with the Joint Reporting Committee the annual compliance report on Standard Form 100 (EEO-1 Report).
- 4. The Bidder does <u>X</u> does not <u>employ fifty (50)</u> or more employees.

Dated: _____07/30/2021

Bidder Company: Flatiron Constructors, Inc.

Grant Johns

Title: District Operations Manager

FLATIRON

July 30, 2021

Reference Page 42-Attachment 1, Part 6- Equal Opportunity Report Statement

Question 1- See the following.

It has been interpreted that 41 CFR 60-1.40 and 41 CFR 60-2 applies to "non-construction contractors" and not "construction contractors". However, it is important to note that Flatiron complies with Executive Order 11246 as listed in 41 CFR 60-4 and regularly passes EEO compliance audits on DOT projects across the nation. We absolutely have a very strong EEO and Affirmative action plan and policy in place for all of our projects and offices, and can provide upon request.

385 Interlocken Crescent Suite 900 Broomfield, Colorado 80021

P +1.000.000.0000 **F** +1.000.000.0000 FLATIRONCORP.COM

Attachment 1, Part 7 Bid Bond

Bidder Flatiron Constructors, Inc

DENVER INTERNATIONAL AIRPORT Taxiway EE Construction Contract No. 202158849

Bid Bond

KNOW ALL MEN BY THESE PRESENTS

THATFlatiron Constructors, Inc, asPrincipal, andLibertyMutual Insurance Company, a corporation organized and existing under and by virtueof the laws of the State ofMassachusetts, and authorized to do business within the State ofColorado as Surety, are held and firmly bound unto the City and County of Denver, Colorado, as Obligee,in the full and just sum ofFive Percent of Amount Bid------Colorado as Surety, are held and firmly bound unto the City and County of Denver, Colorado, as Obligee,in the full and just sum ofFive Percent of Amount Bid------ContractDollars andContractStates, for the payment of which sum, welland truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns,jointly and severally, firmly by these presents:

WHEREAS, the said Principal is herewith submitting its Bid, dated on ______

______, for the construction of Contract No. 202158849, Taxiway EE Construction, Denver International Airport, as set forth in detail in the contract documents for the City and County of Denver, Colorado, and said Obligee has required as a condition for receiving said Bid that the Principal deposit specified bid security in the amount of not less than five percent (5%) of the amount of said Bid, as it relates to work to be performed for the City, conditioned that in event of failure of the Principal to execute the Contract for such construction and furnish required Performance and Payment Bond if the Contract is offered him, that said sum be paid immediately to the Obligee as liquidated damages, and not as a Penalty, for the Principal's failure to perform.

The condition of this obligation is such that if the aforesaid Principal shall, within the period specified therefor, on the prescribed form presented to him for signature, enter into a written Contract with the Obligee in accordance with his bid as accepted, and give Performance and Payment Bond with good and sufficient surety or sureties, upon the form prescribed by the Obligee, for the faithful performance and the proper fulfillment of said Contract, or in the event of withdrawal of said bid within the time specified, or upon the payment to the Obligee of the sum determined upon herein, as liquidated damages and not as a Penalty, in the event the Principal fails to enter into said Contract and give such Performance and Payment Bond within the time specified, then this Obligation shall be null and void, otherwise to remain in full force and effect.

[END OF PAGE]

Page 44 Attachment 1, Part 7 Bid Bond

Signed, sealed and delivered this _____ day of _____ July 2021 Flatiron Constructors, Inc Attest: PRINCIPAL mileraice Secretary Division France Manager [SEAL if bidder a corporation] BY: GRANT JOHNS -President- DISTRICT OPERATIONS MANAGER Liberty Mutual Insurance Company SURETY manna Elliott W Wolffe Attorney-in-Fact (ATTACH POWER OF ATTORNEY) Power of Attorney shall be certified as to the date of bid.

CORPORATE ACKNOWLEDGMENT

Form 152

STATE OF

COUNTY OF

On this <u>30th</u>	lay of <u>July</u>		before me personally
came <u>Grant</u>	Johns	to me kno	own, who, being by me
duly sworn, did dep	bose and say that she/he resides in_	Denver,	Colorado
that she/he is the	District Operations M	anager	of the

Flatiron Constructors, Inc. the corporation described in and which executed the above instrument that she/he knows the seal of said corporation: that the seal affixed to said instrument is such corporate seal: that it was so affixed by order of the Board of Directors of said corporation, and that she/he signed her/his name thereto by like order.

(SEAL)	JESSICA DURAN NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20214025596 MY COMMISSION EXPIRES JUNE 28, 2025
_6	Jusica Duran

CORPORATE ACKNOWLEDGMENT

Form 152

STATE OF NEW JERSEY COUNTY OF BERGEN

On this 20th 2021 day of July before me personally came Elliott W. Wolffe to me known, who, being by me duly sworn, did depose and say that she/he resides in Livingston, New Jersey that she/he is the ATTORNEY IN FACT of the LIBERTY MUTUAL INSURANCE COMPANY the corporation described in and which executed the above instrument that she/he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that she/ he signed her/his name thereto by like order.

(SEAL) **BIANCA L. MELI**

NOTARY PUBLIC, STATE OF NEW JERSEY **MY COMMISSION EXPIRES**

SEPTEMBER 30, 2024



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

> Liberty Mutual Insurance Company The Ohio Casualty Insurance Company West American Insurance Company

Certificate No: 8204080-974450

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casually Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, <u>Charo J.</u> <u>Rosemond; Elliott W. Wolffe; James Baldassare Jr.; John F. Surano; Kristn A. Burke; Lisn M. Seavetta; Maria L. Spadaccini; Nicholas F. Walsh; Sherryanne M.</u> DePirro

all of the city of Saddte Brook state of NJ each individually if there be more than one named, its true and lawful attorney-in-fact to make. execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 3rd day of 2020 August Liberty Mutual Insurance Company INSUR V INS INSUR The Ohio Casualty Insurance Company on any business day. West American Insurance Company 1912 1919 1991 guarantees By David M. Carey, Assistant Secretary State of PENNSYLVANIA credit County of MONTGOMERY value On this 3rd day of 2020 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance August g Power of Attorney call 0 am and 4:30 pm EST Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes letter therein contained by signing on behalf of the corporations by himself as a duly authorized officer. ual IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and yaar first above written. loan, l residu PAS COMMONWEALTH OF PENNSYLVANIA , note, l rate or Notarial Snal By: Ilrea Pastella Teresa Pastella, Notary Public Teresa Pastella, Notary Public Upper Menon Twp., Montgomery County r mortgage, i te, interest ra My Commission Expires March 28, 2021 <u>т</u> 9 Member, Pennsylvania Astociation of Notanes TARY PUT ; This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual ₽ between Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows: Б for m rate, dity ARTICLE IV - OFFICERS: Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the valid à ency President may prescribe, shall appoint such attorneys in fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety o confirm the Va -610-832-8240 any and all undertakings, bonds, recognizances and other suraty obligations. Such attorneys in fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such Curre instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority. ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attomeys in fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary. Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-infact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurence Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 20th day of July 2021



LMS-12873 LMIC OCIC WAIC Multi Co. 12/19



Assets

LIBERTY MUTUAL INSURANCE COMPANY

FINANCIAL STATEMENT — DECEMBER 31, 2020

Liabilities

Cash and Bank Deposits	\$2,058,007,542
*Bonds — U.S Government	2,209,760,437
*Other Bonds	15,902,755,586
*Stocks	18,517,107,230
Real Estate	193,169,809
Agents' Balances or Uncollected Premiums	6,970,170,469
Accrued Interest and Rents	118,399,147
Other Admitted Assets	12,079,597,645

Total Admitted Assets <u>\$58,048,967,865</u>

Lindinted	
Unearned Premiums	\$8,448,706,991
Reserve for Claims and Claims Expense	23,879,216,613
Funds Held Under Reinsurance Treaties	343,068,613
Reserve for Dividends to Policyholders	1,192,716
Additional Statutory Reserve	77,397,000
Reserve for Commissions, Taxes and	
Other Liabilities	6,279,510,804
Total	\$39,029,092,737
Special Surplus Funds \$178,155,102	
Capital Stock 10,000,075	
Paid in Surplus 10,945,045,214	
Unassigned Surplus	
Surplus to Policyholders	19,019,875,128
Total Liabilities and Surplus	<u> \$58,048,967,865</u>



* Bonds are stated at amortized or investment value; Stocks at Association Market Values. The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2020, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 25th day of March, 2021.

TAMiholajewski.

Assistant Secretary

Attachment 1, Part 8 Schedule of Prices and Quantities

SCHEDULE OF PRICES AND QUANTITIES

The Schedule of Prices and Quantities forms which apply to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.

Bidder Name:	FLATIRON CONSTRUCTORS, INC.
SCHEDULE I TOTAL	\$ 42,108,643.90
SCHEDULE II TOTAL	\$ 297,000.00
TOTAL ALL SCHEDULES	\$ 42,405,643.90
Bidder has examined the propose	Bidder has examined the proposed site and is familiar with all site conditions.
Signature	

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Issued for Addendum No. 2 July 21, 2021

2

		SCHEDULE I				
Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: <u>eight hundred forty thousand</u> dollars and <u>cents</u> .	IS	1	\$ 840,000.00 \$	840,000.00
C-105a	Mobilization	at the unit price of: Wo million one hundred len thousand dollars and zero cents.	IS	1	\$ 2,110,000.00 \$	2,110,000.00
013223a	Construction As-built Survey	at the unit price of: six hundred thousand dollars and cents.	TS	1	\$ 600,000.00	\$ 600,000.00
015050a	Textura Software Fee	at the unit price of: thirty two thousand five hundred dollars and zero cents.	TS	1	\$ 32,500.00	\$ 32,500.00
015525a	Flagger	at the unit price of: forty dollars and zero cents.	HR	22,080	\$ 40.00	\$ 883,200.00
015525b	Gate Guard	at the unit price of: forty four dollars and zero cents.	HR	17,360	\$ 44.00	\$ 763,840.00
015525c	Gate Guard Shack	at the unit price of: one hundred five thousand dollars and zero cents.	IS	1	\$ 105,000.00	\$ 105,000.00
015525d	Traffic Control	at the unit price of: three hundred fifty thousand dollars and zero cents.	IS	1	\$ 350,000.00	\$ 350,000.00
015719a	Temporary Erosion Control	at the unit price of: seven hundred fifty thousand dollars and zero cents.	IS	1	\$ 750,000.00	\$ 750,000.00
P-101a	Remove Portland Cement Concrete Pavement (Non- Reinforced, 17")	at the unit price of:fifty six dollars and zero cents.	SY	2,484	\$ 56.00	\$ 139,104.00
P-101b	Remove Portland Cement Concrete Pavement (Reinforced, 17")	at the unit price of:	SY	425	\$ 63.00	\$ 26,775.00
P-101c	Remove Portland Cement Concrete Pavement (Non- Reinforced, 21")	at the unit price of:seventydollars andcents.	SY	143	\$ 70.00	\$ 10,010.00
P-101d	Full Depth Asphalt Pavement Removal	at the unit price of: five dollars and zero cents.	SY	16,551	\$ 5.00	\$ 82,755.00
P-101e	Partial Depth Asphalt Pavement Removal	at the unit price of: follars and cents.	SY	158	\$ 40.00	\$ 6,320.00

Issued for Addendum No. 2 July 21, 2021

3

			SCHEDULE I	EI					
Item No.	Description				Units	Estimated Quantity	Unit Price	Price	Total
P-101f	Remove Permeable Base Course	at the unit price of:	one dollar cents.	dollars	SY	17,862	s	1.50 \$	26,793.00
P-101g	Remove Cement Treated Base Course	at the unit price of:	twenty four cents.	dollars	SY	1,877	\$	24.00 \$	45,048.00
P-101h	Remove Cement Treated Subgrade	at the unit price of: and	twenty four cents.	dollars	SY	2,356	53	24.00 \$	56,544.00
P-101i	Remove Asphalt Road - Complete	at the unit price of:	six cents.	dollars	SY	4,661	69	6.00 \$	27,966.00
P-101j	Grind Cement Treated Base Course (0" to 1")	at the unit price of:	twelve cents.	dollars	SY	300	64	12.00 \$	3,600.00
P-101k	Pavement Marking Removal	at the unit price of:	one cents.	dollars	SF	10,000	64	1.50 \$	15,000.00
P-1011	Remove Gravel Road	at the unit price of:	twenty cents.	dollars	SY	2,280	647	20.00 \$	45,600.00
P-152a	Unclassified Excavation	at the unit price of:	one cents.	dollars	CY	820,000	49	1.40 \$	1,148,000.00
P-152b	Excavation for Undercut at the unit price of: (Less than 3') and	at the unit price of:	sixteen cents.	dollars	CY	14,950	674	16.00 \$	239,200.00
P-152c	Embankment (Common Fill)	at the unit price of:	three cents.	dollars	CY	250,000	647	3.00 \$	750,000.00
P-152d	Embankment (Stockpile Excess Material)	at the unit price of:	two cents.	dollars	CY	472,000	\$	2.50 \$	1,180,000.00
P-152e	Upper Select Subgrade	at the unit price of:	thirty five cents.	dollars	CY	32,700	\$	35.00 \$	1,144,500.00
P-152f	Lower Select Subgrade	at the unit price of:	eight cents.	dollars	CY	98,000	\$	8.00 \$	784,000.00
P-152g	Subgrade Preparation (12")	at the unit price of:	five cents.	dollars	SY	65,374	4	5.00 \$	326,870.00
P-152h	Rock Excavation	at the unit price of:	seven cents.	dollars	CY	10,000	64	7.00 \$	70,000.00
			1.000						

4

44,250.00

15.00 \$

64

2,950

NOL

dollars

fifteen

cents.

Zero

and.

Concrete Crushing

P-159a

at the unit price of: _____

129,480.00

26.00 \$

64

4,980

CY

dollars

twenty six

cents.

Zero

Excavation for Undercut at the unit price off. (Greater than 3') and <u>22</u>

P-152i

h. Description Image: Contract Soil and Contract Contrect Contract Contrect Contract Contract Contrect Con				SCHEDULE	11					
Comment Treated Sollat the unit pride of andat the unit pride of <br< th=""><th>Item No.</th><th>Description</th><th></th><th></th><th></th><th>Units</th><th>Estimated Quantity</th><th>Unit Pri</th><th>ce</th><th>Total</th></br<>	Item No.	Description				Units	Estimated Quantity	Unit Pri	ce	Total
Dese Contract And	P-220a	Cement Treated Soil	te unit price of:		dollars	SY	65,374			392,244.00
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Contentandandcents. <td>4000 d</td> <td>Cement</td> <td>at the unit price of:</td> <td>one hundred ninety</td> <td>dollars</td> <td>TON</td> <td>1 500</td> <td></td> <td></td> <td>285 000 00</td>	4000 d	Cement	at the unit price of:	one hundred ninety	dollars	TON	1 500			285 000 00
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			SCHEDULE I	EI				
Item No.	Description				Units	Estimated Quantity	Unit Price	Total
P-620c	Reflective Media	at the unit price of:	three cents.	dollars	LB	1,796	\$ 3.00	\$ 5,388.00
P-620d	Stop Sign	at the unit price of:	five hundred cents.	dollars	EA	N	\$ 500.00	\$ 1,000.00
P-620e	Type I Roadway Delineator	at the unit price off andZero	one hundred cents.	dollars	EA	36	\$ 100.00	\$ 3,600.00
D-701a	Install 24" Class V RCP	at the unit price of:	two hundred fifty cents.	dollars	LF	3,366	\$ 250.00	\$ 841,500.00
D-701b	Install 30" Class V RCP	at the unit price of: and	two hundred seventy five cents.	dollars	LF	413	\$ 275.00	\$ 113,575.00
D-701c	Install 36" Class V RCP	at the unit price of:	four hundred twenty five cents.	dollars	LF	267	\$ 425.00	\$ 113,475.00
D-701d	Install 48" Class V RCP	at the unit price of:	five hundred cents.	dollars	LF	2,870	\$ 500.00	\$ 1,435,000.00
D-701e	Install 24" FES	at the unit price of:	three thousand cents.	dollars	EA	7	\$ 3,000.00	\$ 6,000.00
D-701f	Install 48" FES	at the unit price of:	four thousand cents.	dollars	EA	1	\$ 4,000.00	\$ 4,000.00
D-701g	Remove 30" RCP	at the unit price of:	thirty cents.	dollars	ILF	26	\$ 30.00	\$ 2,910.00
D-705a	Install 6" Underdrain (Perforated PVC)	at the unit price of:	sixly cents.	dollars	LF	10,485	\$ 60.00	\$ 629,100.00
D-705b	Install 6" Underdrain (Non-Perforated PVC)	at the unit price of: and	eighty cents.	dollars	LF	2,510	\$ 80.00	\$ 200,800.00
D-705c	Repair Damaged Underdrain Pipe	at the unit price of:	seventy cents.	dollars	LF	200	\$ 70,00	\$ 14,000.00
D-705d	Install Underdrain Cleanouts	at the unit price of:	one thousand cents.	dollars	EA	80	\$ 1,000.00	\$ 80,000.00
D-705e	Remove Underdrain Pipe	at the unit price of:	fifteen cents.	dollars	LF	4,092	\$ 15.00	\$ 61,380.00
D-705f	Remove Underdrain Cleanouts	at the unit price of:	two hundred cents.	dollars	EA	2	\$ 200.00	\$ 1,400.00
D-710a	Grouted Type "M" Riprap	at the unit price of:	one hundred eighty cents.	dollars	CY	5	\$ 180.00	\$ 900.00

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			SCHEDULE I					
Item No.	Description				Units	Estimated Quantity	Unit Price	Total
D-710b	Remove and Stockpile Existing Type "VH" Riprap	at the unit price of:	nine cents.	_ dollars	CY	230	69-00	2,070.00
D-710c	Grouted Type "VH" Riprap (From On-Site Stockpile)	at the unit price of:	one hundred cents.	_ dollars	CY	230	\$ 100.00 \$	23,000.00
D-710d	Grouted Type "VH" Riprap (New)	at the unit price of:	two hundred cents.	_ dollars	CY	404	\$ 200.00 \$	80,800.00
D-751a	Install New Triple Type II Inlet Structure	at the unit price of:	thirty five thousand cents.	_ dollars	EA	2	\$ 35,000.00 \$	70,000.00
D-751b	Install New Double Type at the unit price of: II Inlet Structure and and	at the unit price of:	twenty thousand cents.	_ dollars	EA	7	\$ 20,000.00	140,000.00
D-751c	Install Oversized Triple Type II Inlet	at the unit price of:	twenty thousand cents.	_ dollars	EA	1	\$ 20,000.00 \$	20,000.00
D-751d	Install Airfield Manhole	at the unit price of:	twenty thousand cents.	_ dollars	EA	2	\$ 20,000.00 \$	40,000.00
D-751e	Install Type B Manhole	at the unit price of:	thirty thousand cents.	_ dollars	EA	3	\$ 30,000.00 \$	90,000.00
D-751f	Install Type P Manhole	at the unit price of:	thirty five thousand cents.	dollars	EA	2	\$ 35,000.00 \$	70,000.00
D-751g	Remove Existing Inlet	at the unit price of:	eight hundred fifty cents.	_ dollars	EA	1	\$ 850.00 \$	850.00
D-751h	Install Underdrain Manholes	at the unit price of:	fifteen thousand cents.	_ dollars	EA	16	\$ 15,000.00 \$	240,000.00
D-751i	Tie To Existing Structure	at the unit price of:	two thousand five hundred cents.	dollars	EA	1	\$ 2,500.00 \$	2,500.00
T-901a	Seeding (Seed Mix Design 2)	at the unit price of: Ward and zero	two hundred seventy five	dollars	AC	235	\$ 275.00 \$	64,625.00
T-905a	Topsoiling	at the unit price of:	ten cents.	_ dollars	CY	49,248	\$ 10.00 \$	492,480.00
T-908a	Hydraulic Mulching	Cero	one thousand two hundred cents.	_ dollars	AC	235	\$ 1,200.00 \$	282,000.00
T-908b	Erosion Control Blankets and	at the unit price of:	two cents.	dollars	SY	86,527	\$ 2.00	173,054.00

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			SCHEDULE I				
Item No.	Description			Units	Estimated Quantity	Unit Price	Total
L-108a	#8 AWG L-824C, 5000V Conductor	at the unit price of:	seven dollars cents.	LF	194,000	\$ 7.00	\$ 1,358,000.00
L-110a	1W-2" Sch. 40 PVC Conduit in Earth	at the unit price of:	forty four dollars cents.	LF	550	\$ 44.00	\$ 24,200.00
L-110b	1W-2" Sch. 40 PVC Conduit in New Concrete Pavement	at the unit price of:	loty four dollars cents.	LF	7,580	\$ 44.00	\$ 333,520.00
L-110c	1W-2" Sch. 40 PVC Conduit in New Asphalt Pavement	at the unit price of:	forly eight dollars cents.	LF	13,425	\$ 48.00	\$ 644,400.00
L-110d	8W-4" Sch. 40 PVC Concrete Encased Duct Bank	at the unit price of:	five hundred dollars cents.	LF	1,800	\$ 500.00	\$ 900,000.00
L-110e	Broken Conduit Repair	at the unit price of: three hun and zero	three hundred seventy six dollars cents.	EA	2	\$ 376.00	\$ 752.00
L-110f	Remove Concrete Encased Duct Bank	at the unit price of:	thirty dollars	LF	9,550	\$ 30.00	\$ 286,500.00
L-115a	Install New Electrical Manhole	at the unit price of: 101/16 and zeto	forty four thousand dollars cents.	EA	3	\$ 44,000.00	\$ 132,000.00
L-115b	Adjust Existing Electrical at the unit price of: _ Manhole	9	sixteen thousand dollars cents.	EA	2	\$ 16,000.00	\$ 32,000.00
L-115c	Remove Existing Electrical Manhole	at the unit price of: six and zero	six thousand dollars cents.	EA	3	\$ 6,000.00	\$ 18,000.00
L-120c	Install L-847-2 Circuit Selector Switch	at the unit price of:six andzero	six thousand dollars cents.	EA	1	\$ 6,000.00	\$ 6,000.00
L-120d	Install L-847-3 Circuit Selector Switch	at the unit price of: five and zero	five thousand dollars cents.	EA	1	\$ 5,000.00	\$ 5,000.00
L-125a	L-852C LED Taxiway Unidirectional Centerline Light	at the unit price of:	two thousand five hundred dollars cents.	EA	3	\$ 2,500.00	\$ 7,500.00
L-125b	L-852C LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of:	two thousand dollars	EA	101	\$ 2,000.00	\$ 202,000.00

		SCHEDULE	EI					
Item No.	Description			Units	Estimated Quantity	Unit Price		Total
L-125c	L-852K LED Taxiway Bidirectional Centerline Light (Single Circuit)	at the unit price of:	dollars	EA	80	\$ 2,000.00	44 0	160,000.00
L-125d	L-861T Quartz Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of: seven hundred fifty and <u>zero</u> cents.	dollars	EA	62	\$ 750.00	\$	46,500.00
L-125e	L-861T LED Taxiway Edge Light Mounted on L-867 Base Can	at the unit price of:	dollars	EA	66	\$ 750.00	57	49,500.00
L-125f	L-861T LED Taxiway Edge Light Mounted on L-868 Base Can	at the unit price of:	dollars	EA	1	\$ 750.00	**	750.00
L-125g	L-868B 3/4" Thick Cover Plate	at the unit price of: six hundred and cents.	dollars	EA	9	\$ 600.00	\$ 0	3,600.00
L-125h	L-867B 3/8" Thick Cover Plate	at the unit price of: five hundred fifty and zero cents.	dollars	EA	4	\$ 550.00	\$	2,200.00
L-125i	New 22" Deep L-868B Base Can in New Concrete Pavement	at the unit price of:	dollars	EA	172	\$ 4,000.00	\$	688,000.00
L-125j	New 26" Deep L-868B Base Can in New Concrete Pavement	at the unit price of: four thousand three hundred and cents.	dollars	EA	10	\$ 4,300.00	\$	43,000.00
L-125k	New L-867B Base Can in at the unit price of: New Asphalt Pavement and and	at the unit price of: two thousand two hundred and fifty and cents.	dollars	EA	121	\$ 2,250.00	64	272,250.00
L-1251	New L-867B Base Can in Existing Asphalt Pavement	at the unit price of:	dollars	EA	2	\$ 1,500.00	1/ 1	10,500.00
L-125m	L-858 LED Guidance Sign - 2 Mod	at the unit price of: seven thousand and cents.	dollars	EA	7	\$ 7,000.00	\$	14,000.00
L-125n	L-858 LED Guidance Sign - 3 Mod	at the unit price of: eight thousand and cents.	dollars	EA	10	\$ 8,000.00	\$	80,000.00
L-1250	L-858 LED Guidance Sign - 4 Mod	at the unit price of: ten thousand and cents.	dollars	EA	1	\$ 10,000.00	6/ 4	10,000.00
L-125p	New Guidance Sign Foundation - 3 Mod	at the unit price of:	dollars	EA	8	\$ 7,000.00	6/ 3	56,000.00

			SCHEDULE I				
Item No.	Description			Units	Estimated Quantity	Unit Price	Total
L-125q	New Guidance Sign Foundation - 4 Mod	at the unit price of:	eight thousand dollars cents.	EA	1	\$ 8,000.00 \$	8,000.00
L-125r	New Guidance Sign Foundation - 5 Mod	at the unit price of: eigh and zero	eight thousand five hundred dollars cents.	EA	2	\$ 8,500.00 \$	17,000.00
L-125s	Remove Existing Sign and Base	at the unit price of: 100 and zero	two thousand five hundred dollars cents.	EA	3	\$ 2,500.00 \$	7,500.00
L-125t	Remove Fixture and Base Can	at the unit price of:	one thousand dollars cents.	EA	102	\$ 1,000.00 \$	102,000.00
L-125u	Reconnect 2" Conduit at Location of Removed Base Can	at the unit price of:	one thousend five hundred dollars cents.	EA	2	\$ 1,500.00 \$	3,000.00
L-125v	Remove and Replace Fixture or Sign ID Marker	at the unit price of:	eighty dollars cents.	EA	215	\$ 80.00	17,200.00
L-125w	Remove and Replace Circuit ID Tag	at the unit price of:	sixly dollars cents.	EA	92	\$ 60.00	5,520.00
L-125x	Cover Taxiway Edge Light	at the unit price of:	sixty five dollars	EA	24	\$ 65.00 \$	1,560.00
L-125y	Mask Off Taxiway Centerline Light	at the unit price of: and	fifty five dollars cents.	EA	42	\$ 55.00 \$	2,310.00
L-125z	Cover Guidance Sign	at the unit price of:	two thundred thirty dollars cents.	EA	16	\$ 230.00 \$	3,680.00
L-125aa	Edge Light Drain	at the unit price of: 000 and zero	one thousand three hundred dollars cents.	EA	6	\$ 1,300.00 \$	11,700.00
L-132-5.1	Installation of New LLWAS Including All Equipment and Foundations, As Shown on Contract Documents	at the unit price of: one mille and zero	one million four hundred fifty thousand dollars cents.	IS	1	\$ 1,450,000.00 \$	1,450,000.00
L-132-5.2	Removal of Existing LLWAS Including All at th Equipment, EES, Tower and and Foundations	e unit price of: ^{zen}	one hundred sixty thousand dollars cents.	TS	1	\$ 160,000.00	160,000.00

			SCHEDULE I	EI				
Item No.	Description				Units	Estimated Quantity	Unit Price	Total
L-132-5.3	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 4 Way 4 Inch	at the unit price of:	four hundred fifty cents.	dollars	LF	6,000	\$ 450.00 \$	\$ 2,700,000.00
L-132-5.4	Concrete Encased, Schedule 80 PVC, FAA Duct Bank, 2 Way 2 Inch	at the unit price of:	three hundred cents.	dollars	ILF	1,400	\$ 300.00 \$	\$ 420,000.00
L-132-5.5	#1/0 AWG, Bare Copper FAA Guard Wire Installed Above Duct Bank or Conduit, Including Ground Rods, Connections, and Terminations	at the unit price of:	fifteen cents.	dollars	LF	7,500	\$ 15.00	\$ 112,500.00
L-132-5.6	FAA Communications Manhole, 6 Feet by 6 Feet	at the unit price of:	forty two thousand cents.	dollars	EA	7	\$ 42,000.00 \$	\$ 294,000.00
L-132-5.7	FAA Power Manhole, 6 Feet by 6 Feet	at the unit price of:	forty two thousand cents.	dollars	EA	4	\$ 42,000.00	\$ 168,000.00
I132-5.8	2-#2 AWG and 1-#4 AWG Ground Cable Installed in Duct Bank or at the unit price Conduit, Including All and Connections and Terminations	at the unit price of:	twenty eight cents.	dollars	LF	1,550	\$ 28.00	\$ 43,400.00
L-140a	Post-Construction Photometric Testing	at the unit price of:	one hundred fifty thousand cents.	dollars	LS	1	\$ 150,000.00	\$ 150,000.00
L-150-1	Fiber Optic Cable Installed in Innerduct in Duct or Conduit, Including Testing and Connections	at the unit price of:	lwenty cents.	dollars	LF	36,000	\$ 20.00	\$ 720,000.00

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			SCHEDULE I				
Item No.	Description			Units	Estimated Quantity	Unit Price	Total
L-150-2	25 pair #22 AWG Type USE Cable, Installed in Duct Bank or Conduit	at the unit price of: and	welve dollars cents.	LF	800	\$ 12.00 \$	9,600.00
L-160a	Furnish 250kW Generator for 35L ALSFII/17R LOC Temp Power (208Y/120V, 3- phase)	at the unit price of:	three thousand five hundred dollars cents.	EA	I	\$ 3,500.00 \$	3,500.00
L-160b	Connect 250kW Generator for 35L ALSFII/17R LOC Temp and. Powet	e unit price of:	twenty eight thousand dollars cents.	EA	1	\$ 28,000.00 \$	28,000.00
L-160c	Operate 250kW Generator	at the unit price of: one thous and zero	one thousand six hundred dollars cents.	DAY	2	\$ 1,600.00	\$ 3,200.00
L-160d	Furnish 50kW Generator for RTR-A Temp Power (208Y/120V, 3-phase)	at the unit price of:	wo thousand six hundred dollars cents.	EA	1	\$ 2,600.00 \$	2,600.00
L-160e	Furnish 50kW Generator for RTR-B Temp Power (208Y/120V, 3-phase)	at the unit price of:	two thousand six hundred dollars cents.	EA	1	\$ 2,600.00 \$	2,600.00
L-160f	Furnish 50kW Generator for ASDE Temp Power (208Y/120V, 3-phase)	at the unit price of:	wo thousand six hundred dollars cents.	EA	1	\$ 2,600.00 \$	2,600.00
L-160g	Furnish 50kW Generator for 17R MALSR/35L LOC Temp Power (120/240V, 1-phase)	at the unit price of:	two thousand six hundred dollars cents.	EA	ţ	\$ 2,600.00 \$	2,600.00
L-160h	Install 100A Power Inlet at RTR-A or RTR-B	at the unit price of:	six thousand five hundred dollars cents.	EA	2	\$ 6,500.00	\$ 13,000.00

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			SCHEDULEI	12					2
Item No.	Description				Units	Estimated Quantity	Unit Price		Total
L-160i	Connect 50kW Generator for ASDE Temp Power	at the unit price of:	nine thousand five hundred	dollars	EA	1	\$ 9,500.00	64	9,500.00
L-160j	Connect 50kW Generator for 17R MALSR/35L LOC Temp Power	at the unit price of:	nine thousand five hundred cents.	dollars	EA	Ţ	\$ 9,500.00	6	9,500.00
L-160k	Operate 50kW Generator and 2	GEO	two thousand three hundred cents.	dollars	DAY	13	\$ 2,300.00	\$	29,900.00
L-1601	Furnish 30kW Generator for 17R GS or 35L GS at the Temp Power (120/240V, and _ 1-phase)	at the unit price of: and	two thousand four hundred cents.	dollars	EA	24	\$ 2,400.00	69	4,800.00
L-160m	Furnish 30kW Generator for DEN VOR Temp Power (120/240V, 1- phase)	at the unit price of:	four thousand two hundred cents.	dollars	EA	1	\$ 4,200.00 \$		4,200.00
L-160n	Connect 30kW Generator for 17R GS or 35L GS Temp Power	at the unit price of:	six thousand two hundred Cents.	dollars	EA	73	\$ 6,200.00	\$	12,400.00
L-1600	Connect 30kW Generator for DEN VOR Temp Power	at the unit price of:	six thousand two hundred cents.	dollars	EA	1	\$ 6,200.00	64	6,200.00
L-160p	Operate 30kW Generator at the unit price of:	at the unit price of:	two thousand four hundred cents.	dollars	DAY	9	\$ 2,400.00	64	14,400.00
L-160q	Furnish 15kW Generator for RTR-E Temp Power (120/240V, 1-phase)	at the unit price of:	two thousand two hundred cents.	dollars	EA	Ţ.	\$ 2,200.00 \$		2,200.00
L-160r	Operate 15kW Generator at the unit price of: for RTR-E Temp Power and	Sero	one thousand three hundred cents.	dollars	EA	1	\$ 1,300.00 \$		1,300.00

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		SCHEDULEI	1				
Description				Units	Estimated Quantity	Unit Price	Total
Furnish 10kW Generator for Midfield RVR Temp	at the unit price of:	two thousand two hundred	dollars	Ĩ			
Power (120/240V, 1- ¹ phase)		cents.		БA	-	\$ 2,200.00 \$	2,200.00
Connect 10kW	at the unit price of:	four thousand two hundred	dollars	i			
Generator for Midfield RVR Temp Power		cents.		EA	T	\$ 4,200.00 \$	4,200.00
C 111 10 1	at the unit price of: 000	one thousand two hundred	dollars	1110	c		
ate 10kW Generat	tor and zero	cents.		TAT	7	♦ 1,200.00 ₽	2,400.00
Furnish 5kW Generator	at the unit price of:	two thousand four hundred	dollars	i			
tor ASOS Temp Power (240V, 1-phase)		cents.		EA	1	2,400.00 *	2,400.00
ect 5kW Generato	Connect 5kW Generator at the unit price of: four	four thousand one hundred	dollars	Ļ			
for ASOS Temp Power	r and zero	cents.		EA	-	4,100.00 4	4,100.00
C	at the unit price of:	one thousand one hundred	dollars	1110		1 100 00	
Operate 5kW Generator		cents.		DAY	7	¢ 1,100.00 \$	2,200.00
Furnish 1.8kW Generator for LLWAS	at the unit price of:	one thousand one hundred	dollars	i	c		
14 or LLWAS 17 Temp Power (120V, 1-phase)		cents.		EA	7	\$ 1,100.00 \$	2,200.00
Connect 1.8kW Generator for LLWAS	at the unit price of:	five hundred fifty	dollars	~	c		
14 or LLWAS 17 Temp Power	12	cents.		EA	7	↑ 00.0cc	UU.UUT.T
Operate 1.8kW	at the unit price of: 008	one thousand one hundred	dollars	DAV	4	S 11000 \$	4 400 00
Generator	and zero	cents.		1117	f		

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SCHEDULE I TOTAL \$ 42,108,643.90

			SCHEDULE II	115				
Item No.	Description				Units	Estimated Quantity	Unit Price	Total
		at the unit price of:	fifty thousand	dollars	to	•	50,000,00	
C-105a	Mobilization	and zero	cents.		3	1	¢ 00.000,00	00'000'0C *
		at the unit price of:	one thousand two hundred	dollars	CV.	100		10
P-501f	Pavement Spall Kepair	and zero	cents.		10	100	\$ 1,200.00	÷ 120,000.00
	Furnish L-847-2 Circuit at the unit price o	at the unit price of:	nineteen thousand	dollars	ţ			
L-120a	Selector Switch	and zero	cents.		EA	1	\$ 13,000.00 \$	e 19,000.00
+ 4001	Furnish L-847-3 Circuit at the unit price o	at the unit price of:	twenty eight thousand	dollars	E A	Ţ		
L-120b	Selector Switch	and zero	cents.		Va	1	\$ 70'000'0	¢ 20,000.00
101101		at the unit price of:	eighty thousand	dollars	10	F		
1541UAa	ALCMS Modifications	and zero	cents.		3	1	00.000,00 A	

SCHEDULE II TOTAL \$ 297,000.00

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Issued for Addendum No. 2 July 21, 2021 VII. ATTACHMENT 2, DBE FORMS

DSBO FORMS

The DSBO forms which apply to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) COMMITMENT TO DBE PARTICIPATION

This page must be completed by all Bidders/Proposers to indicate their commitment towards satisfying the DBE participation goal. The commitment will be incorporated into the contract and thereby the selected Bidder/Proposer's will be held to that commitment. (Please check the appropriate box):

COMPLETE IF YOU ARE A NON-DBE PRIME:

The City and County of Denver has specified a <u>16</u>% DBE Participation goal on this project. The Bidder/Proposer is committed to meeting <u>16</u>% DBE Participation on the contract.

COMPLETE IF YOU ARE A DBE PRIME:

□ The City and County of Denver has specified a _____% DBE Participation goal on this project. The Bidder/Proposer is a certified DBE with the City and County of Denver and is committed to meeting _____% DBE Participation on the contract.

COMPLETE IF YOU ARE UNABLE TO MEET PROJECT GOAL:

□ The City and County of Denver has specified a _____% DBE Participation goal on this project. The Bidder/Proposer is unable to meet this project goal but is committed to a _____% DBE Participation on the contract. The Bidder/Proposer must make adequate good faith efforts to meet this goal in order to be deemed responsive. The Bidder/Proposer must submit a detailed statement and documentation of their good faith efforts. Award of the contract will be conditioned on meeting the requirements of this section, in accordance with C.F.R. 49 part 26.

The undersigned Bidder/Proposer hereby agrees and understands that they must comply with their DBE commitments in this project in conformity with the Requirements, Terms, and Conditions of this DBE Procurement/Contract Language.

Bidder/Proposer (Name of Firm): Flatiron Constructors, I	nc	
Firm's Representative: Grant Johns		
Title: District Operations Manager		
Signature (Firm's Representative):	Date: 07/30/20	21
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: co	Zip: 80021
Phone: 303-485-4050	Email: mountaincentral@flatironcorp.com	



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) 1A - LIST OF PROPOSED SUBCONTRACTORS, SUBCONSULTANTS, AND/OR SUPPLIERS

City & County of Denver Contract No.: 202158849

The undersigned proposes to utilize all listed firms. Any certified firm listed must be certified by the City and County of Denver and a Letter of Intent (LOI) submited for each. If additional pages are required, please copy and attach the second page. This form must be updated and submitted to DSBO when subcontractors, subconsultants, and/or suppliers are added throughout the contract duration.

Contracto	or/Consultant	
Name of Firm: Flatiron Constructors, Inc.	🔲 MWBE (V) 🛄 S	BE (V) 🔲 DBE (V) 🛄 EBE (V)
Firm's Representative: Grant Johns		
Signature:	Date: 07/30/2021	
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip:80021
Phone: 303-485-4050	Email: mountaincentral	@flatironcorp.com
Total Contract Value \$: 42,405,643.90	Self-Performing Cont	ract Value \$: 18,284,598

Subcontractors, Su	bconsultants, and/or Suppliers	
Name of Firm: Allstate Sweeping, Inc.	🔲 MWBE (V) 🛄 SBE (V) 🗹 DBE (V) 🛄 EBE (V)	
Firm's Representative: Martha Krueger		
Phone: 303.293.8700	Email: bhollis@allstatesweeping.net	
Type of Service: Sweeping	Contract Value \$: 255,000	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm: Vine Laboratories, Inc.	🔲 MWBE (V) 🛄 SBE (V) 🗹 DBE (V) 🛄 EBE (V)	
Firm's Representative: Amy Norwood		
Phone: 303.662.1166	Email: anorwood@vinelaboratories.com	
Type of Service: QC Testing	Contract Value \$: 785,000	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm: Infinity Solutions Inc.	🔲 MWBE (V) 🗖 SBE (V) 🗹 DBE (V) 🔲 EBE (V)	
Firm's Representative: Joseph Jimenez		
Phone: 303.229.6885	Email: jjimenez@infinitysurvey.net	
Type of Service: Surveying	Contract Value \$: 582,000	

Anticipated Start Date: 2/2022

Anticipated Completion Date: 10/2023



Name of Firm: Harvey Contractors Inc. dba American Striping	Co. I MWBE (V) SBE (V) DBE (V) EEE (V
Firm's Representative: Alejandra Harvey	
Phone: 303.495.5950	Email: alejandra@americanstripingcompany.com
Type of Service: Pavement Marking	Contract Value \$: 120,000
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023
Name of Firm: RamCo Trucking Services	🗖 MWBE (V) 🗖 SBE (V) 🗹 DBE (V) 🗖 EBE (V
Firm's Representative: Denise Tolmich	
Phone: 303.906.8335	Email: denise@ram-cotrucking.com
Type of Service: Trucking	Contract Value \$: 400,000
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023
Name of Firm: J.P. Meyer Trucking & Construction, Inc.	🛄 MWBE (V) 🛄 SBE (V) 🗹 DBE (V) 🛄 EBE (V
Firm's Representative: Jean Meyer	
Phone: 303.426.0966	Email: jeaniemey3@gmail.com
Type of Service: Trucking	Contract Value \$: 500,000
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023
Name of Firm: Aggregate Logistics, LLC	🗖 MWBE (V) 🗖 SBE (V) 🗹 DBE (V) 🗖 EBE (V
Firm's Representative: Toni Castiglioni	
Phone: 720.421.5222	Email: tonicastiglioni@yahoo.com
Type of Service: Gravel Merchant Wholesaler	Contract Value \$: 1,590,000
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023
Name of Firm: J.P. Meyer Trucking & Construction, Inc.	🔲 MWBE (v) 🛄 SBE (v) 🗹 DBE (v) 🛄 EBE (v
Firm's Representative: Jean Meyer	
Phone: 303.426.0966	Email: jeaniemey3@yahoo.com
Type of Service: Asphalt Trucking	Contract Value \$: 120,000
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023
Name of Firm: Pynergy, LLC dba Pynergy Petra	🔲 MWBE (V) 🛄 SBE (V) 🗹 DBE (V) 🔲 EBE (V
Firm's Representative: Darrell Jackson	
Phone: 303.292.5005	Email: djackson@pynergy.com
Type of Service: Fuel Merchant Wholesalers	Contract Value \$: 489,074
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023



Name of Firm: Airport Lighting Systems, Inc.	🔲 MWBE (V) 🛄 SBE (V) 🗹 DBE (V) 🛄 EBE (V)	
Firm's Representative: Courtney Denney		
Phone: 817.912.0400	Email: cd@airportlighting.com	
Type of Service: Airfield Lighting Supply	Contract Value \$: 375,448	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm: Danielles Approach LLC	🛄 MWBE (V) 🛄 SBE (V) 🔽 DBE (V) 🛄 EBE (V)	
Firm's Representative: Danielle Geary		
Phone: 402.649.3075	Email: dapproachllc@gmail.com	
Type of Service: Fiber Optic Install, LLWAS Install	Contract Value \$: 999,110	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm: American Sign & Barricade Co	□ MWBE (V) □ SBE (V) ☑ DBE (V) □ EBE (V)	
Firm's Representative: Rhonda Collins		
Phone: 303.885.0481	Email: rhonda@americansgn.com	
Type of Service: Traffic Control, Flagging	Contract Value \$: 400,000	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm: B&L Supply of Colorado	□ MWBE (v) □ SBE (v) ☑ DBE (v) □ EBE (v)	
Firm's Representative: Robert Schafer		
Phone: 720.307.2255	Email: r.schafer@blsupplyco.com	
Type of Service: Electrical Equipment & Materials Supply	Contract Value \$: 200,000	
Anticipated Start Date: 2/2022	Anticipated Completion Date: 10/2023	
Name of Firm:	☐ MWBE (√) ☐ SBE (√) ☐ DBE (√) ☐ EBE (√)	
Firm's Representative:		
Phone:	Email:	
Type of Service:	Contract Value \$:	
Anticipated Start Date:	Anticipated Completion Date:	
Name of Firm:	□ MWBE (√) □ SBE (√) □ DBE (√) □ EBE (√)	
Firm's Representative:		
Phone:	Email:	
Type of Service:	Contract Value \$:	
Anticipated Start Date:	Anticipated Completion Date:	



A. The undersigned Bidder/Proposer intends to engage t if awarded the contract. This Letter of Intent must be DBE. Certified self-performing Prime must complete t lower tier, section C must be completed and signed by	e Signed by the Bidder/Prop both sections A and B. If the	oser and MWBE, SBE, EBE or e MWBE, SBE, EBE or DBE is a
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing: □Yes ⊠No
Firm's Representative: Grant Johns	Title: District Opera	tions Manager
Signature (Firm's Representative):	and the second sec	Date: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050		entral@flatironcorp.com
Name of Firm: All State Dweeping Firm's Representative: Beth Kunegen Signature: Beth Kunegen Address: 1018 E 106th Apre		Date: 7 27 21
ity: Brightin	State: 0-	Zip: 0060
Phone: 303-293-2700	Email: DKruce	ger & Och States weepin
VAICS Code(s): 501790, 237310, 2		90 561730
The Bidder/Proposer intends to utilize the aforementioned MV above. The cost of the work and percentage of the total subcort	VBE, SBE, EBE or DBE for the ntractor MWBE, SBE, EBE or	Work/Supply described DBE bid amount is:
255,000		0.60 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct fir the Bidder/Proposer, please indicate the name of the firm th	st tier subcontractor, subco at is utilizing the certified fir	nsultant, and/or supplier to rm:
Name of Firm:		
irm's Representative:	Title:	
ignature:		

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this <u>Letter of Intent</u> shall be null and void.

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Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

October 28, 2020

Martha Krueger Allstate Sweeping, Inc. P. O. Box 308 Brighton, CO 80601

Dear: Martha Krueger:

The Division of Small Business Opportunity is pleased to inform you that Allstate Sweeping, Inc. is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

Allstate Sweeping, Inc. is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 488490: STREET CLEANING SERVICE NAICS 561730: LANDSCAPE CARE AND MAINTENANCE SERVICES NAICS 561790: POWER WASHING BUILDING EXTERIORS

The anniversary date of your firm's DBE certification is October 31, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,



Contract No.: 202158849 Project Name: 7	axiway EE Construction	
A. The undersigned Bidder/Proposer intends to e if awarded the contract. This Letter of Intent DBE. Certified self-performing Prime must cor lower tier, section C must be completed and s	must be Signed by the Bidder/Proposer nplete both sections A and B. If the MW	and MWBE, SBE, EBE or BE, SBE, EBE or DBE is a
Bidder/Proposer (Name of Firm): Flatiron Constructors, I	nc.	Self-Performing:
Firm's Representative: Grant Johns	Title: District Operations	Manager
Signature (Firm's Representative):	Date:	07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincentral@	flatironcorp.com
B. The Following Section is To Be Completed by t work and NAICS code(s) to be performed and DBE.		the MWBE, SBE, EBE or
Name of Firm; VINE Laboratories, Inc.		BEE(V) BEE(V)
Firm's Representative: A Amy Norwood	Title: President	
Signature:	Date	:: 7/27/21
Address: 6455 E. 56th Avenue		
City: Commerce City	State: CO	Zip: 80022
Phone: 303-662-1166	Email: anorwood@vin	elaboratories.com
Scope of Work: QC Management, testing and inspect	ions	
NAICS Code(s): 541330		
The Bidder/Proposer intends to utilize the aforemention above. The cost of the work and percentage of the tot		
\$ 785,000		1.85 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a the Bidder/Proposer, please indicate the name of the		ant, and/or supplier to
Name of Firm:		
Firm's Representative:	Title:	
Signature:	Dat	te:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this <u>Letter of Intent</u> shall be null and void.

Amy Norwood Vine Laboratories, Inc. 6455 E. 56th Avenue COMMERCE CITY, CO 80022

Dear Amy Norwood:

The Division of Small Business Opportunity is pleased to inform you that Vine Laboratories, Inc. is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at <u>www.coloradodbe.org</u>.

Vine Laboratories, Inc. is eligible to participate as a DBE on US Department of Transportation financiallyassisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 236220: PROJECT MANAGEMENT (INACTIVE EFFECTIVE 02-12-2020) NAICS 237110: STORM SEWER CONSTRUCTION NAICS 237310: CULVERTS, HIGHWAY, ROAD AND STREET, CONSTRUCTION NAICS 237310: POTHOLE FILLING, HIGHWAY, ROAD, STREET OR BRIDGE NAICS 238910: CORE DRILLING AND TEST BORING FOR CONSTRUCTION NAICS 238910: EXCAVATION CONTRACTORS NAICS 238910: SOIL TEST DRILLING NAICS 541330: CONSTRUCTION ENGINEERING SERVICES NAICS 541380: GEOTECHNICAL TESTING LABORATORIES OR SERVICES

The anniversary date of your firm's DBE certification is August 31, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

Adrina Gibson Director of the Division of Small Business Opportunity Office of Economic Development | City and County of Denver P: (720) 913-1701 | <u>adrina.gibson@denvergov.org</u>

City and County of Denver Office of Economic Development <u>http://www.denvergov.org/oed</u> <u>http://denver.mwdbe.com</u>

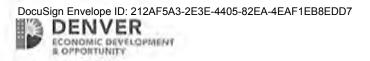


Contract No.: 202158849 Project Name: Taxiway EE Construction

A. The undersigned Bidder/Proposer intends to engage the undersigned MWBE, SBE, EBE or DBE to perform work if awarded the contract. This Letter of Intent must be Signed by the Bidder/Proposer and MWBE, SBE, EBE or DBE. Certified self-performing Prime must complete both sections A and B. If the MWBE, SBE, EBE or DBE is a lower tier, section C must be completed and signed by the firm directly utilizing the certified firm.

Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing:
Firm's Representative: Grant Johns	Title: District Operatio	ns Manager
Signature (Firm's Representative):	Da	nte: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincent	ral@flatironcorp.com
B. The Following Section is To Be Completed by the M\ work and NAICS code(s) to be performed and/or su DBE.		
Name of Firm: Infinity Solutions Inc,		図 MWBE(V) 図 SBE(V) ロ EBE(V) 図 DBE(V)
Firm's Representative: Joe Jimenez	Title: President	
Signature		Date: July 27, 2021
Address: 10465 Melody Drive, Suite 225		
City: Northglenn	State: Colorado	Zip: 80234
Phone: 303-229-6885	Email: jjimenez@inf	initysurvey.net
Scope of Work: Professional Land/Construction Surveying		
NAICS Code(s): 541340 & 541370		
The Bidder/Proposer intends to utilize the aforementioned N above. The cost of the work and percentage of the total sub-	사람은 학생님께서 집안 이렇는 이야지 않는 것이 많이 가지 않는 것이 안에 많이 있었다. 이 것이 많이	
\$ 582,000		1.37 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct the Bidder/Proposer, please indicate the name of the firm		and the second
Name of Firm:		
Firm's Representative:	Title:	
Signature:		Date:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.



Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

August 4, 2020

Joseph Jimenez Infinity Solutions Incorporate 10465 Melody Drive, Suite 225 Suite 225 Northglenn, CO 80234

Dear: Joseph Jimenez:

The Division of Small Business Opportunity is pleased to inform you that Infinity Solutions Incorporate is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

Infinity Solutions Incorporate is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 541340: DRAFTING SERVICES NAICS 541370: GEOGRAPHIC INFORMATION SYSTEM (GIS) BASE MAPPING SERVICES NAICS 541370: LAND SURVEYING SERVICES

The anniversary date of your firm's DBE certification is August 31, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

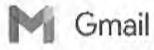


Contract No.: 202158849 Project Name: Taxiway EE Construction

A. The undersigned Bidder/Proposer intends to engage the undersigned MWBE, SBE, EBE or DBE to perform work if awarded the contract. This Letter of Intent must be Signed by the Bidder/Proposer and MWBE, SBE, EBE or DBE. Certified self-performing Prime must complete both sections A and B. If the MWBE, SBE, EBE or DBE is a lower tier, section C must be completed and signed by the firm directly utilizing the certified firm.

Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing:
Firm's Representative: Grant Johns	Title: District Oper	ations Manager
Signature (Firm's Representative):	See 1998 and	Date: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaince	entral@flatironcorp.com
B. The Following Section is To Be Completed by the I work and NAICS code(s) to be performed and/or DBE.		
Name of Firm: Harvey Contractors DBA American Strip	ing Company	MWBE(V) SBE(V) EBE(V) DBE(V)
Firm's Representative: Tony Ciccio	Title: Estimator	
Signature: A. Ciccio		Date: 7.27.21
Address: 6829 S. Dawson Cir		1.11.1 (1.11))))))))))
City: Centennial	State: CO	Zip: 80126
Phone: 303.495.5950	Email: tony@am	ericanstripingcompany.com
Scope of Work: Pavement Markings - 237310		
NAICS Code(s): Pavement Markings - 237310		man the start of the
The Bidder/Proposer intends to utilize the aforementioned above. The cost of the work and percentage of the total su	NG 이 것 다섯 만 만하는 것 같아요. 이 것 같아요. 이 것 다 가지 않는 것 같아요. 이 것 않아요. 이 것 같아요. 이 것 같아요. 이 것 같아요. 이 것 않아요. 이 것 같아요. 이 것 않아요. 이 것 같아요. 이 것 않	
\$ 120,000		0.28 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a dire the Bidder/Proposer, please indicate the name of the fir		A CARD CONTRACTOR OF A CA
Name of Firm:		
Firm's Representative:	Title:	Batin
Signature:		Date:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.



Alejandra Harvey <alejandra@americanstripingcompany.com>

Denver: DBE Approval

City and County of Denver <denver@mwdbe.com> Reply-To: City and County of Denver <denver@mwdbe.com> To: Alejandra@americanstripingcompany.com Thu, Mar 4, 2021 at 2:05 PM



Alejandra Harvey Harvey Contractors Inc. DBA American Striping Company 6829 S Dawson Cir CO - Colorado Centennial, CO 80112

Dear: Alejandra Harvey:

The Division of Small Business Opportunity is pleased to inform you that Harvey Contractors Inc. DBA American Striping Company is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

Harvey Contractors Inc. DBA American Striping Company is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 237310: AIRPORT RUNWAY LINE PAINTING (E.G., STRIPING) NAICS 237310: PAINTING LINES ON HIGHWAYS, STREETS AND BRIDGES NAICS 237310: PARKING LOT MARKING AND LINE PAINTING NAICS 237310: RUNWAY, AIRPORT, LINE PAINTING (E.G., STRIPING) NAICS 237310: SIGN ERECTION, HIGHWAY, ROAD, STREET, OR BRIDGE

The anniversary date of your firm's DBE certification is March 31, 2022. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

1



Contract No.: 202158849 Project Name: Taxiv	vay EE Construction	
A. The undersigned Bidder/Proposer Intends to enga if awarded the contract. This Letter of Intent mus DBE. Certified self-performing Prime must comple lower tier, section C must be completed and signe	ge the undersigned MWBE, SBE, t be Signed by the Bidder/Prop te both sections A and B. If the	oser and MWBE, SBE, EBE or
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing:
Firm's Representative: Grant Johns	Title: District Operat	
Signature (Firm's Representative):		Date: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		ute:01/30/2021
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincor	
B. The Following Section is To Be Completed by the N work and NAICS code(s) to be performed and/or s DBE.	supply item that will be provide	er. Identify the scope of the d by the MWBE, SBE, EBE or
Name of Firm: Ram. Co Trucking So	ervices	HWBE(V) SBE(V) EBE(V) BOBC(V)
Firm's Representative: Denuse Tormuch	Title: Preac	
Signature: Aparen Sheeld		Date:
Address: 15497 County Road	1 10	
ity: Fort Lupton	State: Co	Zip: 80621
Phone: 303-906-8335	Email: denise e	Dram Cotruckuy. C
scope of Work: TRucking / Hauling	/ Durable Goods	
NAICS Code(s): 45120, 484110, 48	4220	
The Bidder/Proposer intends to utilize the aforementioned above. The cost of the work and percentage of the total sub	MWBE, SBE, EBE or DBE for the V peontractor MWBE, SBE, EBE or D	Work/Supply described DBE bld amount is:
400,000		0.94 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direc the Bidder/Proposer, please indicate the name of the firm	t first tier subcontractor, subcon that is utilizing the certified fire	sultant, and/or supplier to
Name of Firm:	WILLIAM CONTRACTOR	
irm's Representative:	Title;	0100000
Bignature:		Date:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.



Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

December 14, 2020

Denise Tolmich Ram-Co Trucking Services DBA Ram-Co Trucking Services 15497 County Road 10 Fort Lupton, CO 80621

Dear: Denise Tolmich:

The Division of Small Business Opportunity is pleased to inform you that Ram-Co Trucking Services DBA Ram-Co Trucking Services is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

Ram-Co Trucking Services DBA Ram-Co Trucking Services is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 425120: DURABLE GOODS AGENTS AND BROKERS, WHOLESALE TRADE NAICS 484110: GENERAL FREIGHT TRUCKING, LOCAL NAICS 484220: DUMP TRUCKING (E.G., GRAVEL, SAND, TOP-SOIL) NAICS 484220: GRAVEL HAULING, LOCAL NAICS 484220: SAND HAULING, LOCAL NAICS 484220: TANKER TRUCKING (E.G., CHEMICAL, JUICE, MILK, PETROLEUM), LOCAL NAICS 484220: TOP-SOIL HAULING, LOCAL

The anniversary date of your firm's DBE certification is August 31, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

the into



Contract No.: 202158849 Project Name	e: Taxiway EE Construction
if awarded the contract. This Letter of Inte	to engage the undersigned MWBE, SBE, EBE or DBE to perform work ent must be Signed by the Bidder/Proposer and MWBE, SBE, EBE or complete both sections A and B. If the MWBE, SBE, EBE or DBE is a nd signed by the firm directly utilizing the certified firm.
Bidder/Proposer (Name of Firm): Flatiron (Self-renoming.
Firm's Representative: Groint Johns	Title: District Operations Manage
Signature (Firm's Representative):	Date: 07-30-21
Address: 385 Interlocken Crescer	st Swite 900
	State: CO Zip: 80021
city: Broomfield	Email: mountaincentre flat iron corp
Phone: 303-4854050	by the MMBF_SBE_EBE or DBE, at any tier. Identify the scope of the
B. The Following Section is to be completed	and/or supply item that will be provided by the MWBE, SBE, EBE or
DBE.	N N N N N N N N N N N N N N N N N N N
	I EBE(V) DI EBE(V)
Name of Firm: J.P. Meyer Trucking	the onstruction The BE(V) & DBE(V)
Firm's Representative: Teasie Mayor	
Signature: Neuric Mayon	Date: 7-28-21
al internet	ail # 5
	State: 20 Zip: 80103
City: Golden	Email: : eavie ney 3@ g noil .com
Phone: 303-436-0966	Enoremy
Scope of Work: fruckie	
)	
NAICS Code(s): 484220 truckius +	425120- Geoky
the state of the s	entioned MWBE, SBE, EBE or DBE for the Work/Supply described
above. The cost of the work and percentage of the	total subcontractor MWBE, SBE, EBE or DBE bid amount is:
\$ 500,000.	1.17 %
C. Lower Tier Utilization: If the certified firm is <u>no</u> the Bidder/Proposer, please indicate the name o	et a direct first tier subcontractor, subconsultant, and/or supplier to firm that is utilizing the certified firm:
Name of Firm:	
Firm's Representative:	Title: Date:
Signature:	Duc.

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this <u>Letter of Intent</u> shall be null and void.



Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

April 6, 2021

Jean Meyer J.P. Meyer Trucking & Construction, Inc. 21999 Tall Grass Trail, #5 Golden, CO 80403

Dear: Jean Meyer:

The Division of Small Business Opportunity is pleased to inform you that J.P. Meyer Trucking & Construction, Inc. is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at <u>www.coloradodbe.org</u>.

J.P. Meyer Trucking & Construction, Inc. is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 425120: WHOLESALE TRADE AGENTS AND BROKERS NAICS 484220: DUMP TRUCKING (E.G., GRAVEL, SAND, TOP-SOIL) NAICS 484220: GRAVEL HAULING, LOCAL NAICS 484220: SAND HAULING, LOCAL NAICS 484220: TOP-SOIL HAULING, LOCAL

The anniversary date of your firm's DBE certification is May 31, 2022. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no Interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,



Contract No.: 202158849 Project Name: Tax A. The undersigned Bidder/Proposer intends to en	xiway EE Construction gage the undersigned MWBE, SBE,	EBE or DBE to perform work
if awarded the contract. This Letter of Intent m DBE. Certified self-performing Prime must comp lower tier, section C must be completed and sign	ust be Signed by the Bidder/Prop plete both sections A and B. If the	oser and MWBE, SBE, EBE or MWBE, SBE, EBE or DBE is a
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc	and the state of the second seco	Self-Performing: □ Yes ⊠ No
Firm's Representative: Grant Johns	Title: District Operation	tions Manager
Signature (Firm's Representative):	Date: 07/30/2021	
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincentral@flatironcorp.com	
work and NAICS code(s) to be performed and/o DBE.	a supply lieth that will be provide	< · · ·
n on one he lociet		
Name of Firm: Sugarage Logist	10, LLG	
Firm's Representative: Ton Costigli	DNI Title: 50	ant and
Signature:		Date: 1 23-2
Address: 10 Box 313		0.000
City: / Unnorth	State: UO	Zip:
Phone: 120-421-5222	Email: OOS	ASTIGION (a)
Scope of Work: Dagaragate . Sa	185	- Chipu
1121222		1 (00
NAICS Code(s): +23320		
The Bidder/Proposer intends to utilize the aforemention above. The cost of the work and percentage of the total		
\$ 1,590,000		3.74 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a dia the Bidder/Proposer, please indicate the name of the f		
Name of Firm:		
Firm's Representative:	Title:	Date:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.

City and County of Denver: DBE Approval

From: City and County of Denver (denver@mwdbe.com)

To: tonicastiglioni@yahoo.com

Date: Friday, July 17, 2020, 07:05 PM MDT

Toni Castiglioni Aggregate Logistics, LLC P.O. Box 393 Timnath, CO 80547

Dear Toni Castiglioni:

The Division of Small Business Opportunity is pleased to inform you that Aggregate Logistics, LLC is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

Aggregate Logistics, LLC is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 327320: READY-MIX CONCRETE MANUFACTURING AND DISTRIBUTING NAICS 423320: GRAVEL, CONSTRUCTION, MERCHANT WHOLESALERS NAICS 423320: STONE, BUILDING OR CRUSHED, MERCHANT WHOLESALERS NAICS 423930: RECYCLABLE MATERIALS (E.G., GLASS, METAL, PAPER) MERCHANT WHOLESALERS NAICS 424310: TEXTILES (EXCEPT BURLAP, FELT) MERCHANT WHOLESALERS NAICS 484110: GENERAL FREIGHT TRUCKING, LOCAL NAICS 484220: DUMP TRUCKING (E.G., GRAVEL, SAND, TOP-SOIL) NAICS 484220: GRAVEL HAULING, LOCAL NAICS 484220: SAND HAULING, LOCAL NAICS 484220: TOP-SOIL HAULING, LOCAL

The anniversary date of your firm's DBE certification is October 31, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

Adrina Gibson Director of the Division of Small Business Opportunity Office of Economic Development | City and County of Denver P: (720) 913-1701 | adrina.gibson@denvergov.org

City and County of Denver Office of Economic Development <u>http://www.denvergov.org/oed</u> <u>http://denver.mwdbe.com</u>

This message was sent to: <u>tonicastiglioni@yahoo.com</u> Sent on: 7/17/2020 8:05:05 PM System ReferenceID: 110268713 DENVER ECONOMIC DEVELOPMENT & OPPORTUNITY

DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) LETTER OF INTENT (LOI)

A. The undersigned Bidder/Proposer Intends to e if awarded the contract. This Letter of Intent DBE. Certified self-performing Prime must cor lower tier, section C must be completed and si	must be Signed by the Bidder/Prop nplete both sections A and B. If the	oser and MWBE, SBE, EBE or MWBE, SBE, EBE or DBE is a
		Self-Performing:
Bidder/Proposer (Name of Firm): Flatiron Constructors, la Firm's Representative: Grant Johns	nc. Title: District Operat	
Signature (Firm's Representative):		Date: 07/30/2021
/////		Jacc.07/00/2021
Address: 385 Interlocken Crescent, Suite 900 City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050		tral@flatironcorp.com
B. The Following Section is To Be Completed by t work and NAICS code(s) to be performed and, DBE.	or supply item that will be provide	d by the MWBE, SBE, EBE or
Name of Firm: J.P. Meyer Trucking + C	instruction, Inc.	\square EBE(V) \square SBE(V)
Firm's Representative: Teonie Meyer	Title: Presider	nt l
Signature: Leanic Man		Date: 4-28-21
Address: 2/994 Pall Gipss Trail		
City: Golden	State: CO	ZIP: 80403
Phone: 303-426 - 93/3	Email: Senniem	ey 3@g.nail.con
Scope of Work: Arucking		
	2010 4 1	
	251,20 Bicker	
The Bidder/Proposer Intends to utilize the aforementio above. The cost of the work and percentage of the tota	I subcontractor MWBE, SBE, EBE or D	DBE bid amount is:
\$ 120,000		0,28%
C. Lower Tier Utilization: If the certified firm is <u>not</u> a d the Bidder/Proposer, please indicate the name of the	lirect first tier subcontractor, subcon firm that is utilizing the certified firm	isultant, and/or supplier to m:
Name of Firm: Branking Scal and Gravel,	LLC	125 12
Firm's Representative: Chillip Aller	Title: Estimator	/ froject Monser

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.



Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

April 6, 2021

Jean Meyer J.P. Meyer Trucking & Construction, Inc. 21999 Tall Grass Trail, #5 Golden, CO 80403

Dear: Jean Meyer:

The Division of Small Business Opportunity is pleased to inform you that J.P. Meyer Trucking & Construction, Inc. is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at <u>www.coloradodbe.org</u>.

J.P. Meyer Trucking & Construction, Inc. is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 425120: WHOLESALE TRADE AGENTS AND BROKERS NAICS 484220: DUMP TRUCKING (E.G., GRAVEL, SAND, TOP-SOIL) NAICS 484220: GRAVEL HAULING, LOCAL NAICS 484220: SAND HAULING, LOCAL NAICS 484220: TOP-SOIL HAULING, LOCAL

The anniversary date of your firm's DBE certification is May 31, 2022. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,



A. The undersigned Bidder/Proposer intends to enga if awarded the contract. This Letter of Intent mus DBE. Certified self-performing Prime must comple lower tier, section C must be completed and signed	t be Signed by the Bidder/Prop te both sections A and B. If th	poser and MWBE, SBE, EBE or e MWBE, SBE, EBE or DBE is a
		Self-Performing:
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.	The Diskist Oraci	Yes 🖾 No
Firm's Representative: Grant Johns	Title: District Opera	A Charlest Market and an
Signature (Firm's Representative):		Date:07/30/2021
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincentral@flatironcorp.com	
B. The Following Section is To Be Completed by the N work and NAICS code(s) to be performed and/or s DBE. Name of Firm: Pynergy Petroleum Company, LLC		
Firm's Representative: Darrell Jackson	Title: President	
Signature: Darrell Jackson		Date: July 29, 2021
Address: 5480 Brighton Blvd.		
City: Commerce City	State: CO	Zip: 80022
Phone: 303-292-5005	Email: djackson@pynergy.com	
Scope of Work: Fuel/Diesel Supply		
NAICS Code(s): 424720) (-	
The Bidder/Proposer intends to utilize the aforementioned above. The cost of the work and percentage of the total su		
\$ 489,074.00 \$815,124 × 60% = \$48	89,074	1.15 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct the Bidder/Proposer, please indicate the name of the firm		
Name of Firm: Kelley Trucking Inc.		
Firm's Representative: Michael M. Easley	Title: Vice President, Estimating Date: July 29, 2021	

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.

Darrell Jackson

From: Sent: To: Subject: City and County of Denver <denver@mwdbe.com> Friday, July 9, 2021 12:45 PM Darrell Jackson Denver: DBE Approval



Darrell Jackson Pynergy, LLC DBA Pynergy Petroleum Company, LLC 5480 Brighton Blvd Commerce City, CO 80022

Dear: Darrell Jackson:

The Division of Small Business Opportunity is pleased to inform you that Pynergy, LLC DBA Pynergy Petroleum Company, LLC is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at <u>www.coloradodbe.org</u>.

Pynergy, LLC DBA Pynergy Petroleum Company, LLC is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 424690: CHEMICALS (EXCEPT AGRICULTURE) (E.G., AUTOMOTIVE, HOUSEHOLD, INDUSTRIAL, PHOTOGRAPHIC) MERCHANT WHOLESALERS NAICS 424720: FUEL OIL MERCHANT WHOLESALERS (EXCEPT BULK STATIONS, TERMINALS) NAICS 424720: LUBRICATING OILS AND GREASES MERCHANT WHOLESALERS (EXCEPT BULK STATIONS, TERMINALS) NAICS 445120: CONVENIENCE FOOD STORES NAICS 447110: CONVENIENCE FOOD WITH GASOLINE STATIONS

The anniversary date of your firm's DBE certification is August 31, 2022. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

High



A. The undersigned Bidder/Proposer intends if awarded the contract. This Letter of Int DBE. Certified self-performing Prime mus lower tier, section C must be completed a	tent must be Signed by the Bidder/P t complete both sections A and B. If	Proposer and MWBE, SBE, EBE or f the MWBE, SBE, EBE or DBE is a
Riddor/Bronosos (Nome of Sime), St. H.		Self-Performing:
Bidder/Proposer (Name of Firm): Flatiron Constructo	- Analysis	Yes 🗆 No
Firm's Representative: Grant Johns	Title: District Op	perations Manager
Signature (Firm's Representative):	<u> </u>	Date: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050		ncentral@flatironcorp.com
B. The Following Section is To Be Completed work and NAICS code(s) to be performed DBE.	by the MWBE, SBE, EBE or DBE, at a and/or supply item that will be pro-	ny tier. Identify the scope of the vided by the MWBE, SBE, EBE or
Name of Firm: AIRPORT LIGHTING SYSTE		□ MWBE(V) □ SBE(V) □ EBE(V) ⊠ DBE(V)
Firm's Representative: COURTNEY DENNEY	Title: PRES	
Signature: Coucher Inney		Date: JULY 27, 2021
Address: 651 INDUSTRIAL BLVD		
City: GRAPEVINE	State: TEXAS	Zip: 76051
Phone: 817-912-0400		AIRPORTLIGHTING.COM
Scope of Work: MATERIAL SUPPLIER		
NAICS Code(s): 423610,488119, 488190		
The Bidder/Proposer intends to utilize the aforeme above. The cost of the work and percentage of the	entioned MWBE, SBE, EBE or DBE for	the Work/Supply described
and the second	0% = 375,448	0, 88 %
C. Lower Tier Utilization: If the certified firm is <u>no</u> the Bidder/Proposer, please indicate the name o	ot a direct first tier subcontractor, su f the firm that is utilizing the certifie	bconsultant, and/or supplier to d firm:
Name of Firm: Royal Electric		
Firm's Representative: Randy Sondreal	Title: Chief	Estimator
Signature: 100 M	1	Date: 7/30/2021

null and void.

Thomas C. Wolfe

From: Sent: To: Subject: City and County of Denver <denver@mwdbe.com> Monday, June 7, 2021 1:21 AM Courtney Denney Denver: DBE Approval



Courtney Denney Airport Lighting Systems, Inc. 651 Industrial Blvd. Grapevine, TX 76051

Dear: Courtney Denney:

The Division of Small Business Opportunity is pleased to inform you that Airport Lighting Systems, Inc. is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at <u>www.coloradodbe.org</u>.

Airport Lighting Systems, Inc. is eligible to participate as a DBE on US Department of Transportation financiallyassisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 423610: LIGHTING FIXTURES, ELECTRIC, MERCHANT WHOLESALERS

The anniversary date of your firm's DBE certification is June 30, 2022. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,



Adrina Gibson Director of the Division of Small Business Opportunity Office of Economic Development | City and County of Denver P: (720) 913-1701 | adrina.gibson@denvergov.org



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) LETTER OF INTENT (LOI)

A. The undersigned Bidder/Proposer intends to enga if awarded the contract. This Letter of Intent must DBE. Certified self-performing Prime must completed lower tier, section C must be completed and signed	st be Signed by the Bidder/Prop ate both sections A and B. If th	poser and MWBE, SBE, EBE or e MWBE, SBE, EBE or DBE is a	
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc		Self-Performing:	
Firm's Representative: Grant Johns	tions Manager		
Signature (Firm's Representative):		Date: 07/30/2021	
Address:385 Interlocken Crescent, Suite 900			
City: Broomfield	State: CO	Zip: 80021	
Phone: 303-485-4050	Email:mountaince	ntral@flatironcorp.com	
DBE. Name of Firm: Unit IIIS Apploach Firm's Representative: Unit III Geary Signature: UNITE GAD Address: 311 W Norfolk AVC. St. 7 City: Norfolk Phone: 407-649-3075 Scope of Work: Fiber Apfic Install	LLC Title: Presic DO State: NB Email: OAPP	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
NAICS Code(s): 238210 The Bidder/Proposer intends to utilize the aforementioned			
above. The cost of the work and percentage of the total su \$ 999, 110	bcontractor MWBE, SBE, EBE or	DBE bid amount is: 2.35 %	
C. Lower Tier Utilization: If the certified firm is <u>not</u> a dire the Bidder/Proposer, please indicate the name of the firm			
Name of Firm: Royal Electric			
Firm's Representative: Randy Sondreal	Title: Chief H		
Signature: Millant		Date: 7/30/2021	

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.

DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7 Danielle Kubes Danielle's Approach, LLC DBA N/A 311 W Norfolk Ave., Ste 200 Norfolk, NE 68701

Re: Disadvantaged Business Enterprise (DBE) Certification

Dear Kubes,

The Colorado Department of Transportation Civil Rights & Business Resource Center is pleased to inform you that Danielle's Approach, LLC DBA N/A has been certified as a Colorado Disadvantaged Business Enterprise (DBE). Danielle's Approach, LLC DBA N/A is listed on the Colorado Unified Certification Program (UCP) DBE Directory at http://www.coloradodbe.org/.

Work Codes

In accordance with 49 CFR 26, Danielle's Approach, LLC DBA N/A has been certified in the following work codes:

NAICS 237310: AIRPORT RUNWAY CONSTRUCTION NAICS 238210: AIRPORT RUNWAY LIGHTING CONTRACTORS

You may request a work code change if you do not believe the assigned work codes sufficiently represent the work performed by Danielle's Approach, LLC DBA N/A. Work code change request forms (CDOT Form #1311) can be downloaded online at http://www.codot.gov/business/civilrights/dbe/dbe-documents/work-code-change-request. Completed forms must be submitted by email to dot_civilrights@state.co.us or by regular mail to:

Colorado Department of Transportation Civil Rights & Business Resource Center 4201 E. Arkansas Avenue, Room 150 Denver, CO 80222

Annual Update

Your firm's DBE Certification must be updated annually by submitting a No Change Affidavit and the firm's most recent tax return on or before its anniversary date. The anniversary date of your firm's certification is December 31, 2021. Forty five (45) days prior to this anniversary date, you will receive a courtesy reminder to submit the firm's annual update documents through CDOT's online certification management system at http://cdot.dbesystem.com. However, CDOT is not responsible for undelivered notices. Failure to complete and submit your firm's annual update documents may result in decertification and removal from the Colorado UCP DBE Directory.

Changes to Your Business

You must notify the Civil Rights & Business Resource Center of any changes that occur in your firm's legal structure, ownership, management, control, and/or work performed within thirty (30) days of the change. Please include any available supporting documentation in your notice.

If you have questions or require assistance, please contact our office at (303) 757-9234 or dot_civilrights@state.co.us.

Sincerely,

Zoe Demuth-George Certification Analyst Colorado Department of Transportation Civil Rights & Business Resource Center DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7

CDOT Division of Project Support 2829 West Howard Place Denver, CO 80204 303-757-9234 Office 303-952-7091 Fax cdot@dbesystem.com https://cdot.dbesystem.com

This message was sent to: dapproachllc@gmail.com Sent on: 12/30/2020 10:27:45 AM System ReferenceID:



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) LETTER OF INTENT (LOI)

A. The undersigned Bidder/Proposer intends to engage the under if awarded the contract. This Letter of Intent must be Signed DBE. Certified self-performing Prime must complete both sec lower tier, section C must be completed and signed by the firm	by the Bidder/Propo tions A and B. If the I	ser and MWBE, SBE, EBE or MWBE, SBE, EBE or DBE is a
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing: □ Yes ⊠ No
Firm's Representative: Grant Johns	Title: District Operation	ons Manager
Signature (Firm's Representative):	Da	ate: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email: mountaincent	ral@flatironcorp.com
work and NAICS code(s) to be performed and/or supply item DBE.	Co,	
Name of Firm: American Sign and Barricade Firm's Representative: Rhonda Collins	A	
Signature: Rhonda Colluis	Title: Preside	A STATE AND A STAT
Address: 14883 E. Hinsdale Ave #3		Date: 7-30-2021
	State: Co	Zip: 80112
City: Englewood Phone: 303-885-0481	Email: Rhonda@ americ	
Scope of Work: Traffic Control	Email: Knonaa	Co americansgine
NAICS Code(s): 561990 - 339950		
The Bidder/Proposer intends to utilize the aforementioned MWBE, SB above. The cost of the work and percentage of the total subcontractor		
\$ 400,000		0.94 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct first tier s the Bidder/Proposer, please indicate the name of the firm that is uti		
Name of Firm:		
Firm's Representative:	Title:	
Signature:		Date:

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be

Is. Rhonda Collins merican Sign & Striping Company DBA American Sign & Barricade Co. 4883 E. Hinsdale Avenue Unit 3 nglewood, CO 80112

e: Updated Disadvantaged Business Enterprise (DBE) Certification

ear Ms. Collins,

he Colorado Department of Transportation Civil Rights & Business Resource Center is pleased to inform you that the BE certification for American Sign & Striping Company DBA American Sign & Barricade Co. has been updated. merican Sign & Striping Company DBA American Sign & Barricade Co. will remain listed on the Colorado Unified ertification Program (UCP) DBE Directory at http://www.coloradodbe.org/.

/ork Codes

accordance with 49 CFR 26, American Sign & Striping Company DBA American Sign & Barricade Co. will remain srtified in the following work codes:

AICS 237310: PAINTING LINES ON HIGHWAYS, STREETS AND BRIDGES AICS 237310: SIGN ERECTION, HIGHWAY, ROAD, STREET, OR BRIDGE AICS 238910: DEMOLITION CONTRACTOR AICS 339950: SIGNS AND SIGNBOARDS (EXCEPT PAPER, PAPERBOARD) MANUFACTURING AICS 561990: FLAGGING (I.E., TRAFFIC CONTROL) SERVICES

ou may request a work code change if you do not believe the work codes assigned sufficiently represent the work erformed by American Sign & Striping Company DBA American Sign & Barricade Co.. Work code change request orms (CDOT Form #1311) can be downloaded online at http://www.codot.gov/business/civilrights/dbe/dbeocuments/work-code-change-request. Completed forms must be submitted by email to dot_civilrights@state.co.us or by gular mail to:

olorado Department of Transportation ivil Rights & Business Resource Center 329 W. Howard Place, Suite 139 enver, CO 80204

nnual Update

our firm's DBE Certification must be updated annually by submitting a No Change Affidavit and the firm's most recent x return on or before its anniversary date. The anniversary date of your firm's certification is October 31, 2021. Forty ve (45) days prior to the anniversary date, you will receive a courtesy notice reminding you to submit the firm's annual pdate documents through CDOT's online certification management system at http://cdot.dbesystem.com. However, DOT is not responsible for undelivered notices. Failure to update your firm's certification by the anniversary date may sult in decertification and removal from the Colorado UCP DBE Directory.

hanges to Your Business

ou must notify the Civil Rights & Business Resource Center of any changes that occur in your firm's legal structure, wnership, management, control, and/or work performed within thirty (30) days of the change. Please include any vailable supporting documentation in your notice.

you have questions or require assistance, please contact our office at (303) 757-9234 or dot_civilrights@state.co.us.

rooke Moore ertification Analyst olorado Department of Transportation ivil Rights & Business Resource Center

DOT Division of Project Support 829 West Howard Place 9 Nenver, CO 80204 03-757-9234 Office 03-952-7091 Fax dot@dbesystem.com ttps://cdot.dbesystem.com

'his message was sent to: rhonda@americansgn.com ent on: 10/6/2020 11:57:23 AM ystem ReferenceID:



DIVISION OF SMALL BUSINESS OPPORTUNITY (DSBO) LETTER OF INTENT (LOI)

Contract No.: 202158849 Project Name: Taxiway EE Co	onstruction	
A. The undersigned Bidder/Proposer intends to engage the u if awarded the contract. This Letter of Intent must be Sig DBE. Certified self-performing Prime must complete both lower tier, section C must be completed and signed by the	ned by the Bidder/Proposer sections A and B. If the MV	and MWBE, SBE, EBE or VBE, SBE, EBE or DBE is a
Bidder/Proposer (Name of Firm): Flatiron Constructors, Inc.		Self-Performing:
Firm's Representative: Grant Johns	Title: District Operations	Manager
Signature (Firm's Representative):	Date	: 07/30/2021
Address: 385 Interlocken Crescent, Suite 900		
City: Broomfield	State: CO	Zip: 80021
Phone: 303-485-4050	Email:mountaincentral@	flatironcorp.com
work and NAICS code(s) to be performed and/or supply in DBE.	em that will be provided by	the MWBE, SBE, EBE or
Name of Firm: B&L Supply of Colorado		
Firm's Representative: Repert Schafer	Title: Business	5 Developement
Signature: Robot Delle	Date	e: 7-30-2021
Address: 555 W 48TH Ave Unit D		
City: Denver, CO	State: CO	Zip: -20216
Phone: 720 307 2255	Email: F. Schaker	@blSupplyco.
Scope of Work: provide Electrical Equip	sment and me	stemals
NAICS Code(s): 423440 423510 423610	423710 423	720
The Bidder/Proposer intends to utilize the aforementioned MWBE, above. The cost of the work and percentage of the total subcontra	SBE, EBE or DBE for the Wor	k/Supply described
\$ 200,000 \$ 333,333 × 60% = \$ 200,0	000	0.47 %
C. Lower Tier Utilization: If the certified firm is <u>not</u> a direct first ti the Bidder/Proposer, please indicate the name of the firm that is		tant, and/or supplier to
Name of Firm: Royal Electric		
Firm's Representative: Randy Sondreal Signature:	Title: Chief Esti	
Vignatura:	Dat	te: 7/30/2021

If the above-named Bidder/Proposer is not determined to be the successful Bidder/Proposer, this Letter of Intent shall be null and void.

DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7

Denver Economic Development & Opportunity 101 W. Colfax Avenue, Suite 850 | Denver, CO 80202 www.denvergov.org/economicdevelopment 720-913-1999

September 22, 2020

Clifton Boyd B&L Supply Inc of Colorado 7042 S Revere Pkwy Unit 450 CO Centennial, CO 80112

Dear: Clifton Boyd:

The Division of Small Business Opportunity is pleased to inform you that B&L Supply Inc of Colorado is certified as a Disadvantaged Business Enterprise (DBE) pursuant to the US Department of Transportation's Regulation 49 CFR Part 26. Your firm will be listed on the Colorado Unified Certification Program's (UCP) on-line directory of eligible DBEs at www.coloradodbe.org.

B&L Supply Inc of Colorado is eligible to participate as a DBE on US Department of Transportation financially-assisted projects in Colorado in the work codes appearing as part of your firm's listing on the directory as eligible to be counted toward DBE participation. It is your responsibility to manage your firm's work codes to ensure they are correct.

NAICS 423440: BALANCES AND SCALES (EXCEPT LABORATORY) MERCHANT WHOLESALERS NAICS 423510: PIPE, METAL, MERCHANT WHOLESALERS NAICS 423610: LIGHTING FIXTURES, ELECTRIC, MERCHANT WHOLESALERS NAICS 423610: WIRING SUPPLIES MERCHANT WHOLESALERS NAICS 423710: FASTENERS (E.G., BOLTS, NUTS, RIVETS, SCREWS) MERCHANT WHOLESALERS NAICS 423710: POWER HANDTOOLS (E.G., DRILLS, SANDERS, SAWS) MERCHANT WHOLESALERS NAICS 423720: PLUMBING SUPPLIES MERCHANT WHOLESALERS

The anniversary date of your firm's DBE certification is September 30, 2021. You will be notified prior to the anniversary date that eligibility must be re-evaluated. However, if you do not receive notification from this office, it is your responsibility to contact us. Pursuant to 49 CFR 26.83(i), submittal of this information is required to ensure that there is no interruption of your firm's status as a certified DBE. If any changes occur in the firm's legal structure, ownership, management, control, or work performed, you must notify the division immediately.

Sincerely,

Adrina Gibson Director of the Division of Small Business Opportunity Office of Economic Development | City and County of Denver P: (720) 913-1701 | adrina.gibson@denvergov.org

Page 47 Attachment 3, Form W-9

VIII. ATTACHMENT 3, FORM W-9

FORM W-9

Please complete the Request for Taxpayer Identification Number and Certification (FORM W-9) and submit with your Bid.

These pages are not included in the page numbering of this contract document.

W-9 Request for Taxpayer (Rev. October 2018) Identification Number and Certification Department of the Treasury Internal Revenue Service Go to www.irs.gov/FormW9 for instructions and the latest information.						Give Form to the requester. Do no send to the IRS.							
			tax return). Name is rec	quired on this line; do r	not leave this line blank	6							
	Flatiron Const	and the press of the process of	y name, if different from	about			_		_		_	-	
	2 Business name/c	isregarded enity	y name, il dillerent fron	Tabove									
Print or type. Specific Instructions on page 3.	following seven to single-member Limited liabilit Note: Check LLC if the LLC another LLC t is disregarded	poxes. a proprietor or or LLC y company. Ente the appropriate b D is classified as a hat is not disrega i from the owner tructions) ►	C Corporation of th C Corporation or the tax classification sox in the line above for a single-member LLC t arded from the owner should check the appr	S Corporation (C=C corporation, S=5 r the tax classification that is disregarded from for U.S. federal tax pur opriate box for the tax	Partnership S corporation, P=Partno of the single-member on the owner unless the poses. Otherwise, a sir	Trust/esership) > owner. Do not o owner of the L ngle-member L	state check LC is LC tha	Certa Instri Exen Exen t code (Applie	npt pa npt pa nption a (if an	ounts main	ot indiv ge 3): e (if al ATCA	vidual ny) repoi	s; see
See S	385 Interlocker									446Carls			
Ő	6 City, state, and 2												
	Broomfield, Co	0 80021											
	7 List account num					1							
Pa		A CARDON AND A REAL PROPERTY AND	cation Number	the second s						-	_	_	_
backi reside entitie <i>TIN</i> , I Note	up withholding. For ant alien, sole prop as, it is your emplo ater. : If the account is in	individuals, th rietor, or disreg yer identification more than on	The TIN provided m is is generally your a garded entity, see th on number (EIN). If y ne name, see the ins delines on whose nu	social security numb le instructions for P ou do not have a nu tructions for line 1	ber (SSN). However, art I, later. For other Imber, see <i>How to g</i>	for a get a or		ecurity - or ident - 1		on num	10	0	2

Part II Certification

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- 2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- 3. I am a U.S. citizen or other U.S. person (defined below); and

4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of	Date ► 07.30.202
04503	T MAAAA S_	- 1. Jost 1. Jak

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

· Form 1099-INT (interest earned or paid)

-DIV (dividends, including these from stocks

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- · Form 1099-C (canceled debt)
- · Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later. By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

An individual who is a U.S. citizen or U.S. resident alien;

• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

An estate (other than a foreign estate); or

• A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

• In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;

• In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and

• In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the instructions for Part II for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see Special rules for partnerships, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; do not leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. Individual. Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. Sole proprietor or single-member LLC. Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C corporation, or S corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. Other entities. Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. Disregarded entity. For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n)	THEN check the box for
Corporation	Corporation
 Individual Sole proprietorship, or Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes. 	Individual/sole proprietor or single- member LLC
 LLC treated as a partnership for U.S. federal tax purposes, LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or 	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	
Partnership	Partnership

Line 4, Exemptions

Trust/estate

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Trust/estate

Exempt payee code.

• Generally, individuals (including sole proprietors) are not exempt from backup withholding.

· Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

· Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

· Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1-An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2—The United States or any of its agencies or instrumentalities

3-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4-A foreign government or any of its political subdivisions, agencies, or instrumentalities

5-A corporation

6-A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7-A futures commission merchant registered with the Commodity Futures Trading Commission

A real estate investment trust

9-An entity registered at all times during the tax year under the Investment Company Act of 1940

10—A common trust fund operated by a bank under section 584(a)

11-A financial institution

12-A middleman known in the investment community as a nominee or custodian

13-A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for	THEN the payment is exempt for
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B-The United States or any of its agencies or instrumentalities

C-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F-A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

 $\rm H-A$ regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I-A common trust fund as defined in section 584(a)

J-A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester,* later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov.* You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/Businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
 Two or more individuals (joint account) other than an account maintained by an FFI 	The actual owner of the account or, if combined funds, the first individual on the account ¹
 Two or more U.S. persons (joint account maintained by an FFI) 	Each holder of the account
 Custodial account of a minor (Uniform Gift to Minors Act) 	The minor ²
 a. The usual revocable savings trust (grantor is also trustee) 	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
 Sole proprietorship or disregarded entity owned by an individual 	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i) (A))	The grantor*
For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax- exempt organization	The organization
12. Partnership or multi-member LLC 13. A broker or registered nominee	The partnership The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(l)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- · Ensure your employer is protecting your SSN, and
- · Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.ldentityTheft.gov* and Pub. 5027.

Visit *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, pavers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

IX. <u>ATTACHMENT 4, INSURANCE REQUIREMENTS</u>

INSURANCE REQUIREMENTS

The insurance requirements relative to this contract are contained in the pages immediately following this page.

These pages are not included in the page numbering of this contract document.

X. ATTACHMENT 5, DIVERSITY AND INCLUSIVENESS IN CITY SOLICITATIONS

For the City or the City Agency to consider a bid/Bid, Bidders must complete the on-line Diversity and Inclusiveness in City Solicitations Form – then print the completed form and include the hard copy as part of Bidder's bid/Bid documents. A Bid or response to a solicitation by a Bidder that does not include this completed form shall be deemed non-responsive.

Click on the following link to access the on-line form: https://fs7.formsite.com/CCDenver/form161/index.html

Using the form found in link above, please state whether you have a Diversity and Inclusiveness program for employment and retention, procurement and supply chain activities or customer service, and provide the additional information requested on the form. The information provided on the Diversity and Inclusiveness in City Solicitations Form will provide an opportunity for City Bidders to describe their own diversity and inclusiveness practices. Bidders are not expected to conduct intrusive examinations of their employees, managers or business partners in order to describe diversity and inclusiveness measures. Rather, the City simply seeks a description of the Bidder's current practices, if any. Diversity and Inclusiveness information provided by City Bidders in response to City solicitations for services or goods will be collated, analyzed and made available in reports consistent with City Executive Order No. 101. However, no personally identifiable information provided by or obtained from Bidders will be in such reports.

Insert the completed hard copy of the Diversity and Inclusiveness in City Solicitations Form immediately following this page.

DocuSign Envelope ID: 212AF5A3-2E3E-4405-82EA-4EAF1EB8EDD7

Reference #	13940679
Status	Complete
Business Email Address	mountaincentral@flatironcorp.com
Enter Email Address of City and County of Denver contact person facilitating this solicitation.	contract.procurement@flydenver.com
Please provide the City Agency that is facilitating this solicitation:	Denver International Airport
Project Name	DEN Taxiway EE Construction
Solicitation No. (Check Below if Not Applicable)	202158849
Name of Your Company	Flatiron Constructors, Inc.
What Industry is Your Business?	Construction/Landscape/Maintenance Services
Address	385 Interlocken Crescent, Suite 900
City	Broomfield
State	Colorado
Zip Code	80021
Business Phone Number	303-485-4050
Business Facsimile Number	303-485-7684
1. How many employees does your company employ?	Over 100
Number of Full Time:	3473
Number of Part Time:	0
2. Do you have a Diversity and Inclusiveness Program?	Yes
2.1. Employment and retention?	Yes
2.2. Procurement and supply chain activities?	Yes
2.3. Customer Service?	No

3. Provide a detailed narrative of your company's diversity and inclusiveness principles and programs. This may include, for example, (i) diversity and inclusiveness employee training programs, equal opportunity policies, and the budget amount spent on an annual basis for workplace diversity; or (ii) diversity EEO Policy which prohibits discrimination and encourages diversity in all employment decisions; Inclusion of EEO Policy and diversity principles into Code of Conduct; Core Values which include a platform around people and integrity; Regular training programs for all levels of employees around EEO policies and principles; Utilization of a third party business for minority outreach in recruiting; Incorporation of DBE/MWBE subcontractor/vendor program and targets; Creation of DIGG an internal Diversity & Inclusion Growth Group, acting as a business resources group. DiGG's goals include increasing diversity and inclusion in talent attraction retention and

and inclusiveness training and information to improve customer service. (If Not Applicable, please type N/A below)	development, and advancement, build inclusive culture and influence business strategy. Digg is also responsible for the creation of multiple affinity groups.
4. Does your company regularly communicate its diversity and inclusiveness policies to employees?	Yes
If you answered Yes to Question 4, how does your company regularly communicate its diversity and inclusiveness policies to employees? (Select all that apply)	 Employee Training Pamphlets Public EEO Postings Other (Email)
5. How often do you provide training and diversity and inclusiveness principles?	Quarterly
5.1 What percentage of the total number of employees generally participate?	76-100%
6. State how you achieve diversity and inclusiveness in supply and procurement activities. This may include,for example, narratives of training programs, equal opportunity policies, diversity or inclusiveness partnership programs, mentoring and outreach programs, and the amount and description of budget spent on an annual basis for procurement and supplier diversity and inclusiveness. (If Not Applicable, please type N/A below)	 -Implementation of project based DBE/MWBE/SBE subcontractor/vendor program and targets including; Training programs; Outreach programs; Bonding Programs; Mentorship programs. -Inclusion of and requirement to comply with company's EEO Policy, Business Partner Code of Conduct, and all applicable discrimination laws in all supply chain contracts. -Current development of national DBE/MWBE/SBE third party program including, Outreach programs, Bonding Programs, and Mentorship programs.
7. Do you have a diversity and inclusiveness committee?	Yes
7.1 If Yes, how often does it meet?	Other
8. Do you have a budget for diversity and inclusiveness efforts?	Yes
9. Does your company integrate diversity and inclusion competencies into executive/manager performance evaluation plans?	No
l attest that the information represented herein is true, correct and complete, to the best of my knowledge.	Check Here if the Above Statement is True,
Name of Person Completing Form	Jessica Duran Jespeak Juran Auch
Today's Date	07-12-2021

Last Update	2021-07-12 13:39:48
Start Time	2021-07-12 13:17:06
Finish Time	2021-07-12 13:39:48
IP	65.132.210.116
Browser	IE
Device	Desktop
Referrer	https://fs7.formsite.com/CCDenver/form161/index.html

faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this notice and in the contract resulting from this solicitation, the "covered area" is City and County of Denver, Colorado.

A3 BREACH OF CONTRACT TERMS

A3.3 BREACH OF CONTRACT TERMS

Any violation or breach of terms of this contract on the part of the [*Contractor* | *Consultant*] or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide Contractor written notice that describes the nature of the breach and corrective actions the Contractor must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the Contractor must correct the breach. Owner may proceed with termination of the contract if the Contractor fails to correct the breach by the deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

A4 BUY AMERICAN PREFERENCE

A4.3.1 BUY AMERICAN PREFERENCE

The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the Federal Aviation Administration has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must complete and submit the Buy America certification included herein with their bid or offer. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

A4.3.2 Certificate of Buy American Compliance – Total Facility

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark (\Box) or the letter "X".

⊠ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States; or
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- To faithfully comply with providing U.S. domestic products.
- To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

 \Box The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- d) To furnish U.S. domestic product for any waiver request that the FAA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the "facility". The required documentation for a Type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

a) Detailed cost information for total project using U.S. domestic product

b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

07/30/2021

Date

Signature (MMA)

Flatiron Constructors, Inc.

Company Name

District Operations Manager

Title

A4.3.3 Certificate of Buy American Compliance – Manufactured Product

Certificate of Buy American Compliance for Manufactured Products

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (\Box) or the letter "X".

Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States;
- b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- 1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing U.S. domestic product.
- 3. To furnish U.S. domestic product for any waiver request that the FAA rejects
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

 \Box The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- 1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
- 2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
- 3. To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
- 4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver – The cost of the item components and subcomponents produced in the United States is more that 60 percent of the cost of all components and subcomponents of the "item". The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as nondomestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

07/30/2021

Date

Flatiron Constructors, Inc.

Company Name

Signature

District Operations Manager Title

A5 CIVIL RIGHTS – GENERAL

A5.3.1 GENERAL CIVIL RIGHTS PROVISIONS

The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

A6 CIVIL RIGHTS - TITLE VI ASSURANCE

A6.3.1 Title VI Solicitation Notice

The (Name of Sponsor), in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that any contract entered into pursuant to this advertisement, [select disadvantaged business enterprises or airport concession disadvantaged business enterprises] will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

A22.3 RIGHTS TO INVENTIONS

Contracts or agreements that include the performance of experimental, developmental, or research work must provide for the rights of the Federal Government and the Owner in any resulting invention as established by 37 CFR part 401, Rights to Inventions Made by Non-profit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements. This contract incorporates by reference the patent and inventions rights as specified within 37 CFR §401.14. Contractor must include this requirement in all sub-tier contracts involving experimental, developmental, or research work.

A23 SEISMIC SAFETY

A23.3 PROFESSIONAL SERVICE AGREEMENTS FOR DESIGN

SEISMIC SAFETY

In the performance of design services, the Consultant agrees to furnish a building design and associated construction specification that conform to a building code standard that provides a level of seismic safety substantially equivalent to standards as established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their building code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety. At the conclusion of the design services, the Consultant agrees to furnish the Owner a "certification of compliance" that attests conformance of the building design and the construction specifications with the seismic standards of NEHRP or an equivalent building code.

A23.3.2 CONSTRUCTION CONTRACTS

SEISMIC SAFETY

The Contractor agrees to ensure that all work performed under this contract, including work performed by subcontractors, conforms to a building code standard that provides a level of seismic safety substantially equivalent to standards established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety.

A24 TAX DELINQUENCY AND FELONY CONVICTIONS

A24.3 CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (\Box) in the space following the applicable response. The applicant agrees that, if

awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

The applicant represents that it is () is not (x) a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

The applicant represents that it is () is not (x) is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions-

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

A25 TERMINATION OF CONTRACT

A25.3.1 TERMINATION FOR CONVENIENCE (CONSTRUCTION & EQUIPMENT CONTRACTS)

The Owner may terminate this contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of Owner. Upon receipt of a written notice of termination, except as explicitly directed by the Owner, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

1. Contractor must immediately discontinue work as specified in the written notice.

XII. ATTACHMENT 7, CERTIFICATE OF GOOD STANDING

CERTIFICATE OF GOOD STANDING

Please submit a Certificate of Good Standing from the Office of the Secretary of the State of Colorado for the proposing entity.

OFFICE OF THE SECRETARY OF STATE OF THE STATE OF COLORADO

CERTIFICATE OF FACT OF GOOD STANDING

I, Jena Griswold, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

FLATIRON CONSTRUCTORS, INC.

is an entity formed or registered under the law of Delaware , has complied with all applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 20011042545.

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 07/29/2021 that have been posted, and by documents delivered to this office electronically through 07/30/2021 @ 08:38:57.

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this official certificate at Denver, Colorado on 07/30/2021 @ 08:38:57 in accordance with applicable law. This certificate is assigned Confirmation Number 13335985



Secretary of State of the State of Colorado

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's Web site, http://www.sos.state.co.us/biz/CertificateSearchCriteria.do entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, http://www.sos.state.co.us/ click ''Businesses, trademarks, trade names'' and select ''Frequently Asked Questions.''