

AMENDATORY AGREEMENT

THIS AMENDATORY AGREEMENT is made and entered into by and between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (the "City") and **HDR ENGINEERING, INC.** (the "Design Consultant"), a Colorado corporation, whose address is 1670 Broadway, Suite 3400, Denver, Colorado 80202.

RECITALS

A. The Parties entered into an Agreement dated February 7, 2018 (the "Agreement") for sidewalk upgrades along the north side of Iowa Avenue (Santa Fe to Acoma Street), the west side of Santa Fe Drive (Florida Avenue to Jewell Ave) and at the intersection of the two streets.

B. The Parties wish to amend the Agreement to add to the Scope of Work, increase the Maximum Contract Amount and extend the Term.

NOW, THEREFORE, the parties hereby amend the Agreement as follows:

1. All references to "Exhibit A" in the existing Agreement shall be amended to read: "Exhibit A and Exhibit A-1, as applicable." The Scope of Work marked as Exhibit A-1 is attached hereto and incorporated herein by this reference.

2. Section 3.05 (a) of the Agreement entitled "**MAXIMUM CONTRACT AMOUNT**" is amended to read as follows:

"(a) Notwithstanding any other provision of the Agreement, the City's maximum payment obligation will not exceed **EIGHT HUNDRED SEVENTEEN THOUSAND SIX HUNDRED EIGHTY-THREE DOLLARS AND EIGHTY-SIX CENTS (\$817,683.86)** (the "Maximum Contract Amount"). The City is not obligated to execute an Agreement or any amendments for any further services, including any services performed by Design Consultant beyond that specifically described in Exhibit A. Any services performed beyond those set forth therein are performed at Design Consultant's risk and without authorization under the Agreement."

3. Section 4.01 of the Agreement entitled "**TERM**" is amended to read as follows:

"4.01 Term. The Agreement will commence on February 7, 2018 and expire on December 27, 2019, unless sooner terminated."

4. Except as herein amended, the Agreement is affirmed and ratified in each and every particular.

5. This Amendatory Agreement will not be effective or binding on the City until it has been fully executed by all required signatories of the City and County of Denver, and if required by Charter, approved by the City Council.

[SIGNATURE PAGES FOLLOW]

Contract Control Number:

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

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Contract Control Number: PWADM-201737759-01

Contractor Name: HDR ENGINEERING INC



By: R. Bradley Martin

Name: R. Bradley Martin
(please print)

Title: SVP
(please print)

ATTEST: [if required]

By: Lindsey Diekmann

Name: Lindsey Diekmann
(please print)

Title: Quality & Records Coordinator
(please print)



EXHIBIT A

March 12, 2019

Kayla Lorentz, PE
Project Manager
City and County of Denver
Capital Projects Management
201 W Colfax Ave
Denver, CO 80202

RE: Professional Design Services: Iowa Underpass Change Order #1
Contract No.: PWADM-201737759-00

Ms Lorentz-

HDR respectfully requests a change order and a time extension for this project.

As outlined in the attachments, additional scope items include:

1. Additional time for meetings and extension of project schedule. I propose a new expiration date of December 31, 2019. Bid phase and design services during construction would be under a future task order.
2. Addition of work to comply with SB 167
3. Change in Santa Fe sidewalk alignment including survey of golf course irrigation

The requested amount of the change order is \$71,015 bringing the new contract total to \$817,683.86.

If you have any questions, please contact me at 303-764-1526 or tammy.heffron@hdrinc.com.

Best Regards-



Tammy C Heffron, PE

IOWA UNDERPASS

Master Contract Name: Professional Design Services: Iowa Underpass
Contract No.: PWADM-201737759-00

CHANGE ORDER #1 – SCOPE OF WORK

MARCH 12, 2019

I. ADDITIONAL MEETINGS AND TIME EXTENSION

Extending the contract and design requires additional time for team coordination and project management meetings.

Additional and unanticipated meetings with City departments and the Councilman required preparation for and attendance at additional stakeholder coordination meetings.

II. SENATE BILL 18-167 REQUIREMENTS

Utility investigations will meet the requirements of ASCE 38 as stated in the recently passed SB 18-167. The work includes the following:

- Additional on-site review for the initial utility designation with the private locator
- On site observation reviewing test hole operations to verify all facility types/utility owners, depth, sizes, site photographs, and coordination with on-site surveyor
- Preparation of a SUE summary to be included with utility specifications with next phase of required project deliverable
- Additional test hole cost differential utilizing a SUE test hole contractor
- Uniform Traffic Control police officer for the night work
- Additional hourly costs test holes during night operations

This work is further described in the attached documents from Goodbee & Associated and Eugene Lynne.

III. CHANGE IN ALIGNMENT FOR SIDEWALK ALONG THE WEST SIDE OF SANTA FE DRIVE

In late December 2018, it was requested that the team shift the alignment of the sidewalk on the west side of Santa Fe Drive further from the roadway, west of the berm. City Forestry provided guidelines for realigning adjacent to the existing trees and those that are more desirable for removal.

Prior to updating the 30% plans and proceeding with 60% design, there will be a coordination meeting with the City (to include forestry and golf) to achieve consent with the alignment proposed.

Efforts include:

1. Review information provided by City Forestry
2. Assess the impacts to realign trail/sidewalk to the west and move the berm to the east
3. Update civil model, plans, and quantities
4. Prepare exhibits to facilitate discussions

5. Revise water quality investigation & memo and update plans. This scope of work assumes water quality requirements will either be exempt for this project by crediting another City project or that runoff will infiltrate into the existing soils as it does in the existing condition. No borings for infiltration testing are included at this time.
6. Quality Control
7. This scope of work assumes there will be no retaining or landscape walls. Therefore no additional structural or pavement borings are included. Recommendations for the trail will be based on those pavement borings already completed along with standard practices.
8. Pinyon Environmental stated, in the attached letter, that there will be revisions required to deliverables for several resources and additional agency meetings. They will use \$10,200 of the monies originally scoped for work that would have been required if there were a historic adverse effect found for these changes. Therefore, it is assumed that the current finding of no historic adverse effect will not change.
9. Additional survey of the irrigation heads in this area – see attached map with area sketched.
(Eugene Lynne)



Corporate Headquarters
3222 South Vance Street, Lakewood, CO 80227
T: 303.980.5200 F: 303.980.0089
www.pinyon-env.com

January 16, 2019

Tammy Heffron, PE ENV SP
HDR
1670 Broadway Suite 3400
Denver, CO 80202

Via eMail: Tammy.Heffron@hdrinc.com

Subject: Change Order to Complete Additional Environmental Clearance Support
Project Name: Iowa and Santa Fe Pedestrian Improvement Project
Project Location: South Santa Fe Drive and Iowa Avenue
Project Contract Dated: February 20, 2018

Dear Ms. Heffron:

Pinyon Environmental, Inc. (Pinyon), respectfully submits this Change Order to complete additional environmental clearance support related to the design changes of the proposed trail west of Santa Fe Drive as part of the Iowa and Santa Fe Pedestrian Improvement Project.

The scope of services includes minor revisions to deliverables for the following resources: biological, historic, hazardous materials, non-historic Section 4(f), as well as the summary report for resources not anticipating impacts. The revisions to the deliverables will reflect the design changes associated with the revised proposed trail location. The additional scope also reflects extension of the project schedule by four months, associated project management activities, and two agency coordination meetings.

The current approved project fee is \$176,433.66. This fee includes work associated with an adverse effect determination for a historic resource. Based on the historic evaluation that has occurred for the project to date, adverse effects for this resource are not anticipated. Pinyon estimates the cost to complete the additional services identified above will be \$10,200.00. Pinyon will utilize a portion of the existing authorized fee for the historic adverse effect task (\$35,469) for the addition services described above. No additional fee is being requested in accordance with this change order. Pinyon will invoice in accordance with our existing contract rates and terms.

To authorize the outlined scope of services, please sign and return one full copy of the attached Change Order Authorization. Should you have any questions or require additional information, please do not hesitate to call. Thank you for considering Pinyon for your environmental consulting needs.

Sincerely,

PINYON ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Robyn A. Kullas", with a long horizontal flourish extending to the right.

Robyn A. Kullas
Technical Group Manager - NEPA and Planning

CHANGE ORDER AUTHORIZATION

Client: Address: Phone: Client Contact Email:	HDR 1670 Broadway Suite 3400 303-764-1526 Tammy Heffron, PE ENV SP Tammy.Heffron@hdrinc.com
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PROJECT DESCRIPTION

Project Name	Iowa and Santa Fe Pedestrian Improvement Project
Project Location	South Santa Fe Drive and Iowa Avenue
Pinyon Project Number	I/18-191-01
Scope of Work	Additional Environmental Clearance Support
Current Approved Fee	\$176,433.66
Change Order Fee	\$0
Revised Total Project Fee	\$176,433.66

The following attachments are hereby made a part of this AGREEMENT:

<input type="checkbox"/> [] <input checked="" type="checkbox"/> [X]	Project Contract Dated February 20, 2018 Pinyon Environmental, Inc. Change Order dated January 16, 2019.
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HDR	Pinyon Environmental, Inc.
------------	-----------------------------------

By: _____ Title: _____ Date: _____	By: _____ Title: _____ Date: _____
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IOWA UNDERPASS CHANGE ORDER NO. 1 (FEB 20, 2019)

	Principal Surveyor	Field Crew (2 person with equipment)	Principal Engineer	Subtotal	Notes
	\$90	\$115	\$90		
Task 2 - Line 5 - Additional topography in golf course					
Field Work		24		\$2,760	Locate irrigation heads and expand topography survey near Hole #1, locate signs at Iowa Underpass
Office (Coordination, CAD)	18			\$1,620	Coordination with Golf Course, process field data and update base files
Subtotal				\$4,380	
Task 2 - Line 7 - Potholing (Additional scope to comply with SB 18-167)					
Field Work		38		\$4,370	Night work performed in October 2018
Office (Coordination, CAD)	24		4	\$2,520	Coordination with Goodbee, update CAD file, distribute information to team
Subtotal				\$6,890	
Task 11 - Line 6* - Floodplain Coordination					
Research			8	\$720	Research FEMA Map, GIS data, FHAD
Coordination and Permit			22	\$1,980	Coordinate with CCD, Floodplain Permit
Subtotal				\$2,700	
Task 12 - Water Quality and Erosion Control Analysis and Design					
Line 5* - Prepare the CASDP and supporting plans			20	\$1,800	No time included in original contract as CASDP was assumed to be unnecessary due to under an acre of disturbance.
Line 6 - External Coordination			10	\$900	Coordination with CDOT and CCD on preference, maintenance, etc.
Line 6b* - Internal Coordination (based on extended schedule and change in alignment)			20	\$1,800	Coordination with landscape architect, utility sub (irrigation conflicts), civil (grading, size, placement), geotechnical. Meetings in person and bi-weekly calls.
Line 7* - Water Quality Alternatives Analysis			20	\$1,800	Develop alternatives analysis and revise/respond to comments (internal and external) based on UDFCD recommendations and CCD Ultra Urban Green Infrastructure Guidelines
Line 8* - Memo for Omitting WQ			12	\$1,080	Research and write report to justify omitting WQ from project. Research alternative projects per CCD GI Implementation Sections 1-7
Subtotal				\$7,380	
Subtotal Change Order 1				\$21,350	

* Represents new line item under task



LEGEND

- 8545-46-54-6 TORO FULL CIRCLE ELECTRIC VALVE-IN-HEAD SPRINKLER ● 65 PSI, 75' RADIUS, 29.9 GPM, AT 70' EQUILATERAL TRIANGULAR SPACING
- ▼ 8555-46-52-6 TORO ADJ. PART CIRCLE ELECTRIC VALVE-IN-HEAD SPRINKLER ON GREENS SURFACE ONLY ● 65 PSI, 64' RADIUS, 20.8 GPM, AT 55' SPACING
- 885-46-85-8 TORO ADJ. PART CIRCLE SPRINKLER ● 80 PSI, 77' RADIUS, 38.9 GPM, SPACED @ 70'
- 8100-42 TORO GEAR-DRIVEN ADJ. PART CIRCLE SPRINKLER WITH #9 NOZZLE ● 70 PSI, 49' RADIUS, SPACED @ 40'
- 474-00 TORO 1" QUICK COUPLER W/STANDARD COVER, INSTALLED IN VALVE BOX
- 2200-27-06 TORO 1-1/2" BRASS PRESSURE REGULATING VALVE, SET @ 65 PSI, INSTALLED IN VALVE BOX
- SP-04-5-07 TORO SITEPRO CENTRAL PREMIUM COMPUTER WITH SITEPRO SOFTWARE AND XP OPERATING SYSTEM
- 1-48-P-6-M-3 TORO NETWORK VP 48-STATION SATELLITE CONTROLLER WITH PLASTIC PEDESTAL
- ▶ 2" DRAIN VALVE INSTALLED IN VALVE BOX
- ⊙ 2" AIR RELIEF VALVE INSTALLED IN VALVE BOX
- MAIN LINE PIPE: CL 200 SDR 21 GASKETED PVC PIPE, SIZES NOTES, INSTALLED AT MIN. DEPTH OF 36" COVER
- 2" LATERAL PIPE: CL 200 SDR 21 SOLVENT WELD PVC PIPE, INSTALLED AT MIN. DEPTH OF 20" COVER
- ▶ MAIN LINE ISOLATION GATE VALVE, SIZE SAME AS PIPE, INSTALLED IN VALVE BOX PER DETAIL
- ▶ 2" LATERAL ISOLATION GATE VALVE, INSTALLED IN VALVE BOX PER DETAIL
- ⊕ WIRE SPLICE
- WINTER WATERING HYDRANT
- WINTER WATERING VALVE
- HDPE WINTER WATERING PIPE

Tammy Heffron, PE, ENV SP

January 21, 2019

Page 2

Additional services assume that the golf course does not have a drainage network of infrastructure collecting and conveying runoff to the west. In order to implement water quality provisions on the west side of the berm, the basins will have to either fully infiltrate or discharge to the CDOT inlets along Santa Fe. While the impact of the project is minor, tying the water quality features to the inlets on Santa Fe is inconsistent with natural drainage patterns. Due to this, the intent is to instead fully infiltrate the basins within the golf course keeping the drainage within its existing basin. It is also assumed that the plantings within these basins would be drought tolerant and that once vegetation is established there would not be a need for permanent irrigation. In order to justify a fully infiltrating bioretention area or tree/trench pit (basin without underdrain and discharge pipe), the soils must have a minimum infiltration rate of 2 times the rate needed to drain the WQCV over 12 hours. Recommendations for this design include an on-site geotechnical investigation to ensure that percolation rates will be met (See UDFCD V.3 (Bioretention) and CCD Ultra Urban Green Infrastructure Guidelines). However, since the golf course appears to infiltrate in its existing conditions and drilling within the site would likely not be viable, geotechnical testing has been excluded from the scope.

Please contact me at (720) 771-8149 or ahildebrand@eugenelynn.com with any questions or comments.

Sincerely,

A handwritten signature in blue ink, appearing to read "Amara L. Hildebrand". The signature is fluid and cursive, with a large initial "A" and "H".

Amara L. Hildebrand

Goodbee and Associates, Inc.
Iowa Underpass - SUE Revision
10/31/18

Task	Description of Activities /Assumptions	Role	PM III	Designer	Administrator	CAD I/ Coord 1	Total Hrs.
		<i>GA CCD Attachment 3</i>	\$140/hr	\$100/hr	\$100/hr	\$75/hr	
	Designation: Review utility designation.		4				4
	Utility Test Holes: Review utility test holes. Goodbee to provide SUE summary.		16				16
							0
TOTAL LABOR			20	0	0	0	20

\$560
\$2,240
\$0
\$2,800

Item	# of Units	Units	Unit Price	Subtotal
Utility test holing contractor (additional cost for SUE contractor)	20	each	\$445	\$8,900
Traffic Control during potholing/MHTs (additional cost from SUE test hole provider)	3	days	\$750	\$2,250
Uniform Traffic Control for night work	1	days	\$1,000	\$1,000
Night operations - additional costs related to test holes during night operations	6	hr	\$305	\$1,830
TOTAL ODCs				\$13,980

TOTAL ESTIMATE

\$16,780

From: [Laura Harmon](#)
To: [Heffron, Tammy C.](#)
Cc: [Jahnke, Janelle](#); [Mary Keith Floyd](#)
Subject: RE: Iowa Underpass: SUE 811 Legislation
Date: Thursday, November 1, 2018 5:29:15 PM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Tammy:

Just noticed and corrected - the amendment is correct but the overall contract total is as below:

Original contract value:	\$	60,250
SUE addition:	\$	16,780
Revised total (in Goodbee SOW Iowa 201810310-total):	\$	77,030

Laura Harmon
303.918.6121 / laurah@goodbeeassoc.com



Goodbee & Associates and PKM Design Group have merged to combine our knowledge and talents, and enable us to deliver more comprehensive services!

www.goodbeeassoc.com

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From: Laura Harmon
Sent: Thursday, November 1, 2018 5:08 PM
To: Heffron, Tammy C. <Tammy.Heffron@hdrinc.com>
Cc: Jahnke, Janelle <Janelle.Jahnke@hdrinc.com>; Mary Keith Floyd <MK@goodbeeassoc.com>
Subject: RE: Iowa Underpass: SUE 811 Legislation

Tammy:

Attached for review is the amendment for the SUE additional costs as requested. To summarize the additional costs based upon the new SUE Legislation are as follows:

- Additional on-site review for the initial utility designation with the private locator
- On site observation reviewing test hole operations to verify all facility types/utility owners, depth, sizes, site photographs, and coordination with on-site surveyor
- Preparation of a SUE summary to be included with utility specifications with next phase of required project deliverable
- Additional test hole cost differential utilizing a SUE test hole contractor
- Uniform Traffic Control police officer for the night work
- Additional hourly costs test holes during night operations

Original contract value:	\$	60,250
SUE addition:	\$	16,780
Revised total (in Goodbee SOW Iowa 201810310-total):	\$	78,030

Thank you for allowing the opportunity to present an amendment so this dynamic project with City & County of Denver can clearly state that it complies with the passage of the ASCE 38 / SUE SB-167 legislation.

Let me know if you have any questions.

Laura Harmon

303.918.6121 / laurah@goodbeeassoc.com



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From: Heffron, Tammy C. [<mailto:Tammy.Heffron@hdrinc.com>]
Sent: Tuesday, October 30, 2018 12:39 PM
To: Mary Keith Floyd <MK@goodbeeassoc.com>; Laura Harmon <Laurah@goodbeeassoc.com>
Cc: Jahnke, Janelle <Janelle.Jahnke@hdrinc.com>
Subject: RE: Iowa Underpass: SUE 811 Legislation

I would say what the SUE additional is and then your new total. That way we all are on the same accounting page. Thanks.

Tammy C Heffron, PE, ENV SP
D 303.764.1526 M 303.842.0512

From: Mary Keith Floyd [<mailto:MK@goodbeeassoc.com>]
Sent: Tuesday, October 30, 2018 12:05 PM
To: Laura Harmon <Laurah@goodbeeassoc.com>; Heffron, Tammy C. <Tammy.Heffron@hdrinc.com>
Cc: Jahnke, Janelle <Janelle.Jahnke@hdrinc.com>
Subject: RE: Iowa Underpass: SUE 811 Legislation

Hi Tammy – Formatting question. Do you want new revised total for Goodbee or delta only to SUE-it up?

Mary Keith Floyd, AICP

Principal

303.667.6985 / mk@goodbeeassoc.com



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City and County of Denver - IOWA Underpass Fee - Change Order #1 DRAFT
March 12, 2019

Project Team Member	Project Manager	PIC - QA/QC	Structural Lead	Structural PE	Sr. Project Professional	Design Engineer	Design Engineer	Senior CAD	Civil RR PE	ROW Lead	ROW	ROW	ROW	PI Lead	CADD/PI Graphics	LA	LA	Admin	Controller	Total Hours	Notes
CCD Labor Classification	Sr. PM 2	Sr. PM 2	Des Eng 3	Design Eng 2	Proj Prof 2	Design Eng 2	Design Eng 2	Sr Tech	Des Eng 3	Sr. PM 2	PM - Acq Sup	ROW Acq III	ROW Acq I	PI Specialist	Technician	Sr LA Architect	Site Design Co	PA I	Pri Ctr		
	Heffron	Jahnke	Roberts	Sweenhart	Plenge	Baker	Dyrsten	Kathrineberg	Beasley	Jamieson	Gerondale	Vallard	Pietri	Bettale	Niles/ Langemach	Nesbitt	Strandell	DiTirro	Starrett		
Billing Rate	\$ 195.00	\$ 195.00	\$ 140.00	\$ 125.00	\$ 170.00	\$ 125.00	\$ 125.00	\$ 140.00	\$ 140.00	\$ 195.00	\$ 170.00	\$ 130.00	\$ 85.00	\$ 120.00	\$ 100.00	\$ 200.00	\$ 110.00	\$ 70.00	\$ 80.00		
I. Project Management, Administration, and Mtgs																					
a. Project Management- Schedule, Invoicing, Reporting (+7 months)	28																		14	14	56
b. Meetings and Coordination																					
1. PM mtgs with CCD (+7 months)	11																				11
2. Team Coordination Mtgs (+4 months)	8		8			8	8														32
3. Outside Agency Coordination Mtgs	12						8														20
																					0
Subtotal Project Mgmt	59	0	8	0	0	8	16	0	0	0	0	0	0	0	0	0	0	14	14		119
Subtotal Project Mgmt Fee	\$ 11,505	\$ -	\$ 1,120	\$ -	\$ -	\$ 1,000	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 980	\$ 1,120		\$ 17,725
II. Senate Bill 18-167																					
Survey (Eugene Lynne)																					\$ 6,890
Utilities (Goodbee)																					\$ 16,780
Civil engineering & coordination	2						8								6						16
																					0
Subtotal SB 167	2	0	0	0	0	0	8	0	0	0	0	0	0	0	6	0	0	0	0		16
Subtotal SB 167 Fee	\$ 390	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600	\$ -	\$ -	\$ -	\$ -		\$ 1,990
Subtotal SB 167 Fee with Subs																					\$ 25,660
III. Santa Fe western sidewalk alignment change																					
Civil Engineering, Model, Quantities, Plans & Exhibits	4	6	2				68								16						96
City coordination mtg	2						2														4
																					0
Survey & Water Quality (Eugene Lynne)																					\$ 14,460
Subtotal Alignment Change	6	6	2	0	0	0	70	0	0	0	0	0	0	0	16	0	0	0	0		100
Subtotal Alignment Change Fee	\$ 1,170	\$ 1,170	\$ 280	\$ -	\$ -	\$ -	\$ 8,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,600	\$ -	\$ -	\$ -	\$ -		\$ 12,970
Subtotal Alignment Change Fee with Subs																					\$ 27,430
PROJECT TOTALS	67	6	10	0	0	8	94	0	0	0	0	0	0	0	22	0	0	14	14		235

HDR LABOR COST	\$ 13,065	\$ 1,170	\$ 1,400	\$ -	\$ -	\$ 1,000	\$ 11,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,200	\$ -	\$ -	\$ 980	\$ 1,120	\$	\$ 32,685
OTHER DIRECT COSTS																					
Mileage																					\$ -
Printing, Other																					\$ 200
TOTAL ODC'S																					\$ 200
SUBCONSULTANTS																					
Eugene Lynne (DBE)																					\$ 21,350.00
Goodbee (DBE)																					\$ 16,780.00
Pinyon Environmental (DBE) (change in scope only)																					\$ -
Shannon & Wilson (no additional work assumed)																					\$ -
TOTAL PROJECT COSTS																					\$ 71,015

54% % DBE