

## 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 **DAVID EVANS AND ASSOCIATES, INC.**, (the "Design Consultant"), a foreign corporation with its principal place of business located at 2100 SW River Parkway, Portland, Oregon 97201.

### WITNESSETH:

**WHEREAS**, the Parties entered into an Agreement dated on or about August 26, 2016, for the performance of certain services set forth in the Agreement and exhibits; and

**WHEREAS**, the Parties wish to amend the Agreement to add to the scope of services, and add compensation to the Consultant as follows:

**NOW, THEREFORE**, in consideration of the premises and the mutual covenants and obligations herein set forth, the Parties agree as follows:

1. All references to "Exhibit A" shall be amended to read: "Exhibit A and Exhibit A-1, as applicable." Exhibit A-1, scope of services and fee, is attached to this Amendatory Agreement.
2. Section 3 of the Agreement entitled "COMPENSATION, PAYMENT, AND FUNDING" is amended to read as follows:

"3.01. **Fee for basic services.** The City shall pay and the Consultant shall accept as the sole compensation for services rendered and costs incurred under the Agreement the amount of **ONE MILLION SIXTY-TWO THOUSAND THREE HUNDRED AND TWENTY ONE DOLLARS AND THIRTY CENTS (\$1,062,321.30)** for fees. Amounts billed may not exceed the rates set forth in **Exhibit A-1.**"
3. Section 3.03 of the Agreement entitled **Additional Services** is amended to read as follows:

"3.03. **Additional Services.** If pre-approved additional services are performed by the Design Consultant, the City agrees to pay the Design Consultant for such additional services in accordance with Section 2.08. The maximum amount to be paid by the City for all additional services under this contract is **FIFTEEN THOUSAND DOLLARS AND ZERO CENTS (\$15,000.00).**

4. Section 3.05 of the Agreement entitled “**Maximum Contract Amount**” is amended to read as follows:

“a. **Maximum Contract Amount**:

Notwithstanding any other provision of the Agreement, the City’s maximum payment obligation will not exceed **ONE MILLION ONE HUNDRED THIRTY-ONE THOUSAND FIVE HUNDRED AND FIFTY-NINE DOLLARS AND THIRTY CENTS (\$1,131,559.30)** (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 Consultant beyond that specifically described in Exhibit A and A-1. Any services performed beyond those in **Exhibit A and A-1** are performed at Consultant’s risk and without authorization under the Agreement.”

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

6. 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.

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**[SIGNATURE PAGES TO FOLLOW]**

**Contract Control Number:**

PWADM-201950087-01

**Contractor Name:**

DAVID EVANS AND ASSOCIATES INC

Alfresco 201629357

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:**

Attorney for the City and County of Denver

By:

By:

\_\_\_\_\_

\_\_\_\_\_

By:

\_\_\_\_\_

**Contract Control Number:**  
**Contractor Name:**

PWADM-201950087-01  
DAVID EVANS AND ASSOCIATES INC  
**Alfresco** 201629357

By: \_\_\_\_\_

Name: \_\_\_\_\_  
(please print)

Title: \_\_\_\_\_  
(please print)

ATTEST: [if required]

By: \_\_\_\_\_

Name: \_\_\_\_\_  
(please print)

Title: \_\_\_\_\_  
(please print)



**Contract Control Number:**  
**Contractor Name:**

PWADM-201950087-01  
DAVID EVANS AND ASSOCIATES INC  
Alfresco 201629357

By: Cody S. Keraga

Name: Cody S. Keraga  
(please print)

Title: Associate  
(please print)

ATTEST: [if required]

By: Anthony R. Marcelllo

Name: Anthony R. Marcelllo  
(please print)

Title: Vice President  
(please print)



**DAVID EVANS  
AND ASSOCIATES INC.**

April 9, 2019

John La Sala, PE, PTOE  
Senior Engineer, City Project Manager  
City and County of Denver  
Department of Public Works  
Infrastructure Project Management  
201 West Colfax Avenue, Department 506  
Denver, Colorado 80202

**SUBJECT: High Line Canal Trail Change Order**

**PROJECT: High Line Canal Trail Underpasses – Hampden/Colorado (201629357)**

Dear John,

As previously discussed, the High Line Canal Trail project has had multiple changes to the project scope and duration. Based on our review of the project, the following items have been revised:

- Relocation of the Hampden Ave Underpass based on coordination with Cherry Hills Village requiring revisions to both our 30% documents and Draft 90% documents including additional topographic survey and geotechnical borings (affected parties: DEA, Yeh, HKS)
- Additional coordination, performed over the past eighteen months, with Cherry Hills Village including Environmental Clearance scope revisions and coordination (affected parties: DEA, Pinyon)
- Revisions to Colorado laws with respect to utility locates during design based on Senate Bill 167 requiring compliance based on an advertisement date in or after 2019. Additionally, a sealed SUE report including plans is required as part of the new legislation. (affected parties: Goodbee, HKS)
- Addition of a new Irrigation Design sub-consultant (Larry Rodgers Design Group) per request from the City Parks Department due to the recently installed irrigation system in Wellshire Golf Course (affected parties: Rodgers)
- Extension of the project duration past the originally anticipated delivery schedule (affected parties: DEA)

The above additional services and scope revisions require additional project funding and are summarized in the table below.



DAVID EVANS  
AND ASSOCIATES INC.

**Table 1: Summary of Change Order Fees**

Task	Company	Description	Fee
1	David Evans and Associates, Inc.	Project Management and Coordination	\$18,130
2	David Evans and Associates, Inc.	Environmental Clearances Coordination	\$14,160
3	Pinyon Environmental, Inc.	Environmental Clearances	\$34,758.50
4	Yeh and Associates, Inc.	Geotechnical Borings and Soil Nail Retaining Wall Design	\$8,820
5	Harris Kocher Smith	Topographic Survey and SUE Locates	\$29,375
6	Goodbee and Associates, Inc.	SUE Locate Coordination and Utility Plans	\$5,040
7	Larry Rodgers Design Group	Irrigation Design	\$8,080
<b>Total Fee = \$118,363.50</b>			

Attached is additional documentation on scope revisions and additional fee estimates.

If you have any questions or need additional information, please feel free to call or email me. We appreciate the opportunity to complete this project with you and look forward to it moving forward.

Sincerely,

**DAVID EVANS AND ASSOCIATES, INC.**

Cody Keraga, P.E.  
Project Manager, Associate

Copies: Project File

DEA Project Number: CCDN0000.0054

File Path: P:\C\CCDN00000054\0000CON\C0030Contract\CO 1 – Relocated Underpass\HLC CO Letter 04-9-19.docx



DAVID EVANS AND ASSOCIATES, INC.  
ADDITIONAL FEE ESTIMATE

TASK NO.	TASK	Labor rates:	PROJECT MANAGEMENT			ENVIRONMENTAL		ADMINISTRATION		Hours	Fee
			Vice President	Eng. Task Leader	Sen. Proj. Engineer	Planning Task Leader	Graph. Spec.	Sen. Project Admin.	Admin. Assistant		
			Tony M.	Cody K.	Josh W.	Kara S.	Colleen S	Terri O.	Gina S.		
<b>Task 1</b>	<b>Project Management and Coordination</b>		\$ 275.00	\$ 160.00	\$ 165.00	\$ 180.00	\$ 90.00	\$ 110.00	\$ 80.00		
1) A)	<b>Project Management and Coordination</b>										
1) A) i)	Project Schedule, Invoicing, Monthly Status Updates (6 months)	2	16	4				6	12	40	\$ 5,390.00
1) A) ii)	Manage and coordinatie work efforts		28							28	\$ 4,480.00
1) A) iii)	Coordinate project tasks with City Project Manager		16							16	\$ 2,560.00
1) A) iv)	Quality Control / Quality Assurance		1	12						13	\$ 2,140.00
1) B)	<b>Project Meetings</b>										
1) B) i)	Team Coord. Meetings (6)		6	1						7	\$ 1,125.00
1) B) ii)	Agendas, exhibits, handouts, and minutes		8						3	11	\$ 1,520.00
1) B) iii)	Stakeholder/Other Meetings (2)	1	4							5	\$ 915.00
	<b>Hours</b>	3	79	17	0	0	6	15		120	\$ 18,130
<b>Task B</b>	<b>Environmental Permitting/Clearances Coordination</b>										
2) A)	<b>Clearance Review and Coordination</b>										
2) A) i)	Environmental Coordination					40				40	\$ 7,200.00
2) A) ii)	Permitting Clearance Review					10				10	\$ 1,800.00
2) A) iii)	Visualizations					8	18			26	\$ 3,060.00
2) A) iii)	Obtain Environmental Permits and Clearances					8				8	\$ 1,440.00
2) A) iv)	Quality Control / Quality Assurance			4						4	\$ 660.00
	<b>Hours</b>	0	0	4	66	18	0	0		88	\$ 14,160
	<b>Total Hours</b>	3	79	21	66	18	6	15		208	
	<b>Total Labor Fee</b>	\$ 825	\$ 12,640	\$ 3,465	\$ 11,880	\$ 1,620	\$ 660	\$ 1,200			\$ 32,290



Corporate Headquarters  
3222 South Vance Street, Suite 200, Lakewood, CO 80227  
T: 303.980.5200 F: 303.980.0089  
www.pinyon-env.com

April 8, 2018

Kara Swanson  
David Evans and Associates, Inc.  
1600 Broadway, Suite 800  
Denver, CO 80202

Subject: Change Order to Complete Environmental Support Services for the additional work for the High Line Canal Trail Project, City and County of Denver, Colorado

Dear Ms. Swanson:

Pinyon Environmental, Inc. (Pinyon) respectfully submits this Change Order for additional work to complete the environmental studies for the High Line Canal Trail Underpass Project, located at the Hampden Avenue and Colorado Boulevard intersection in Denver County, Colorado. This Change Order includes additional work related to Wellshire Golf Course, recent design changes, as well as incorporating requested reporting updates and requirements from City and County of Denver (CCD), and Colorado Department of Transportation (CDOT).

The scope of services and schedule details included in this Change Order are outlined below. The current approved project fee is \$41,516.00. Pinyon has approximately \$2,500 remaining budget which will be allocated to all resources, mostly historic, biological, and general project management. Pinyon estimates the cost to complete the additional services, in accordance with the outlined services, will be **\$34,758.50** (See Table I) for an overall project total of **\$76,274.50**.

Pinyon will invoice in accordance with our 2016 CCD standard rates per the original contract. The authorized amount will not be exceeded without prior approval. 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 blue ink that reads "Kate Turner".

Kate Turner  
NEPA Specialist

Cc: File

File Location: Z:\PROJECTS\2016\11666504 Highline Canal Trail Underpass\PM\Proposal Contract\

Based on Pinyon's understanding of the project changes, the following are the additional environmental evaluations that Pinyon will complete to meet CCD, CDOT, and Federal Highway Administration protocols:

**Task 1: Project Management:** This task includes time for the kick off meeting and either the FIR or FOR meeting, coordination with DEA and individual resource specialists regarding project updates and schedules. This also includes time for invoicing and progress reports. The duration of the project has been extended; the project is now expected to be seven months. If this time is extended a change order may be necessary to allow for additional coordination and management time.

**Task 2: Biological Resources:** Pinyon biologist completed a site visit in 2017; the study area has shifted, and a Pinyon biologist will conduct an additional field visit to delineate potential wetlands in the area that was not previously surveyed.(assumes one biologist in the field for one day). A Pinyon biologist will write a Biological Technical Memorandum, including: fish and wildlife; vegetation and noxious weeds; and federally and state-listed threatened and endangered species. Species-specific surveys, noxious weed management plans, and/or mitigation plans may also be necessary but are not anticipated and are not included in this proposal. The project area is in the Preble's meadow jumping mouse, Ute ladies' tresses orchid, and Colorado butterfly plant block clearance zones. Based on the context of the project area, Pinyon anticipates that the project will have no effect on federally listed species. Pinyon will document *no effects* finding in the Biological Technical Memorandum and submit to DEA/CCD/CDOT. The High Line Canal is not jurisdictional for Senate Bill (SB) 40; therefore, no SB 40 certification is anticipated to be required for this project. Project Management time for this task includes QA/QC of deliverables.

**Waters of the US (WUS), including Wetlands:** The current design plans show no impacts to WUS features delineated in the 2017 site visit; however, based on aerial imagery, it is likely that WUS features will be found in the additional study area. Any WUS features found in the additional site visit will be delineated to US Army Corps of Engineers (Corps) protocols. A summary of findings will be included in the Biological Technical Memorandum. Pinyon assumes a Preconstruction Notification (PCN) to the Corps will be required and the impacts will be minimal and fall under a nationwide permit. Pinyon assumes impacts will be less than 500 square feet and a CDOT Wetlands Finding report will not be necessary.

**Bird Nesting Habitat Survey:** A Pinyon biologist will evaluate the study area for bird nesting habitat. Pinyon will include information on migratory bird nesting habitat as well as raptor nests that are observed during the site visit, if any, in the Biological Resources Report. Pinyon will also provide modified project specials and/or general notes to be included with the plan set and the bid documents. Pinyon will provide a standalone technical memorandum documenting the results of this additional bird nesting habitat survey. Preconstruction bird nest surveys are typically performed within seven days of clearing and grubbing activities because these surveys look for active nests (nests with eggs or young), and many migratory birds do not re-use the same nest or nesting site from year to year. This bird nesting habitat survey would not constitute a preconstruction nest survey; a preconstruction nest survey is not included in the current scope and fee. Project Management time for this task includes QA/QC of deliverables.

*Deliverable: Biological Technical Memorandum  
GIS Data for Impact Calculations for Section 404 Permit  
PCN to the Corps  
Bird Nesting Habitat Survey Technical Memorandum*

### **Cultural Resources:**

The following tasks outline work needed to meet Section 106 and Section 4(f) compliance for additional and anticipated project elements. The project intersects two potentially historic roads (SH-2 and SH-285); based on past project meeting with the CDOT specialist, it is assumed that these resources will be addressed in the Eligibility and Effects Letter - Methodology section and no additional survey work will be required. If project parameters change and additional OAHP Survey forms are required for these resources, this scope will need to be revisited.

### **Task 5 – Additional Survey Forms**

**Wellshire Golf Course Additional Research and Historic Cultural Landscape Evaluation Form (Form 1404):** While SHPO accepts 1403 evaluations for this type of resource, at the direction of CDOT, Pinyon will perform additional research and convert the existing 1403 evaluation into the 1404 Form. Pinyon will conduct a site visit and take photos of the Wellshire Golf Course for documentation (assumes one person in the field for one day). Project Management time for this task includes QA/QC of deliverables.

*Deliverables: Form 1404 (1) for the Wellshire Golf Course, site photos*

**Highline Canal Segment (Hampden to Colorado) Architectural Site Form (Form 1400/1418):** At the request of CDOT Historian, Pinyon will conduct a site visit, take photos of the Highline Canal Segment (Hampden to Colorado) for documentation on survey Forms 1400/1418, the Management Data and Linear Component Forms.

*Deliverables: Forms 1400/1418 (1 set) for the Highline Canal Segment from Hampden to Colorado, site photos*

**Task 6 – Meetings and Coordination:** The project manager and technical specialist will attend meetings with CCD, CDOT, and SHPO as necessary. Pinyon recommends that at least two project team members be present at these meetings or conference calls (Either from DEA or Pinyon). The meeting schedule outlined below is an estimate based on past project experience:

- Project status meetings, comment resolution meetings and/or conference calls with DEA, CCD, and CDOT (*up to 2 meetings for Historian and 1 meeting for Project Manager*)

**Task 7 – Eligibility and Effects Letter Updates:** Pinyon's staff historian will update the Area of Potential Effect (APE) in coordination with CDOT and DEA. Pinyon's historians will provide google earth visualizations for up to three locations within the park to aid decision making for CDOT and SHPO. As a result of information collected and project updates reflected in Tasks 5 and 6, Pinyon's historian will update the Eligibility and Effects letter containing appropriate Section 4(f) determination notifications for the Official with Jurisdiction (OWJ) for submittal to the CDOT historian for delivery to the State Historic Preservation Office (SHPO). The Section 4(f) findings *within this task* are anticipated to be *de minimis*, *provided no Section 106 adverse effects are identified. Should adverse effects be identified to any resources; the Section 4(f) findings will not be de minimis and a change order will be necessary.* Project Management time for this task includes QA/QC of deliverables. Pinyon assumes a no adverse effect determination. If this is not feasible, a change order will be necessary for the adverse effect mitigation efforts.

*Deliverables: Updated APE Map, Updated Eligibility and Effects Letter (may include Section 4(f) de minimis finding, if applicable).*

**Task 8 - Water Quality and Erosion Control Analysis & Design:** Pinyon will provide revised SWMP plans and narrative to reflect the design changes including the new Hampden Avenue underpass and drainage modifications east of Colorado Boulevard. In addition to accommodating the design changes, Pinyon will provide SWMP plans and narrative for an additional FIR and FOR submittal. The following is assumed:

- Initial, Interim, and Final Best Management Practice (BMP) phasing for construction activities will be depicted on a single sheet for each design segment.
- Four submittals are anticipated: FIR, FOR, final review, and bid plans
- CCD's SWMP Narrative will be acceptable to CDOT.
- CCD's specifications will be used.
- No meeting attendance is included in this task.

**Task 9 – Address CCD and CDOT Comments:** Pinyon assumes that additional time will be necessary to address comments by CCD and CDOT for all resources. CDOT historian will likely require two separate reviews; the rest of the resources are assumed to be one review.

Kara Swanson  
February 25, 2019

- Reallocated Scope and Fee: Pinyon assumes that CDOT will be able to clear the Archeology and Paleontology tasks internally. Pinyon will reallocate that remaining scope and fee (approximately \$4,500) to cover past project meetings and coordination that were not included in the original scope.

<b>CHANGE ORDER AUTHORIZATION</b>	
Client: Address:  Phone: Email: Client Contact:	David Evans and Associates, Inc. 1600 Broadway, Suite 800 Denver, CO 80202 720.225.4678 Kara Swanson
<b>PROJECT DESCRIPTION</b>	
Site Name: Site Location: Pinyon Project No. Scope of Work:	High Line Canal Trail Underpass Denver County, Colorado 11666504 Environmental Support Services for the additional work related to Wellshire Golf Course, recent design changes, as well as incorporating requested reporting updates and requirements from CCD and CDOT.
Current Approved Fee	<b>\$41,516.00</b>
Change Order Fee -High Line Canal (Table I)	<b>\$34,758.50</b>
<b>Revised Total Project Fee</b>	<b>\$76,274.50</b>
The following attachments are hereby made a part of this AGREEMENT:	
[X] Pinyon Environmental, Inc. Change Order dated February 25, 2019 [X] Summary of Estimated Costs [X] Attachment A – Scope of Work	
<b>David Evans and Associates, Inc.</b>	<b>Pinyon Environmental, Inc.</b>
By: _____  Title: _____  Date: _____	By: _____  Title: _____  Date: _____



**Table I - Summary of Estimated Costs**

<b>Task - Project Management (includes two project meetings, general project coordination)</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	32.0	hours	\$155.00	\$4,960.00
Field Technician/Project Assistant	4.5	hours	\$74.00	\$333.00
<b>Task Subtotal</b>				<b>\$5,293.00</b>
<b>Task - Biological Resources - Update Biological Technical Memorandum, Site Visit, PCN, Bird Nesting TM</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	3.0	hours	\$155.00	\$465.00
Project Engineer	45.0	hours	\$110.00	\$4,950.00
Project Engineer (GIS)	9.0	hours	\$105.00	\$945.00
<b>Equipment/Material Unit Rates</b>				
Field Visit	1.0	day	\$40.00	\$40.00
GPS Mapper - day	1.0	each	\$225.00	\$225.00
<b>Task Subtotal</b>				<b>\$6,625.00</b>
<b>Task - Cultural Resources - (Wellshire Golf Course Form 1404 and Highline Canal Segment form 1403)</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	3.0	hours	\$155.00	\$465.00
Project Specialist	22.5	hours	\$114.00	\$2,565.00
Project Engineer (GIS)	2.0	hours	\$105.00	\$210.00
<b>Task Subtotal</b>				<b>\$3,240.00</b>
<b>Task - Cultural Resources - Meetings and Coordination</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	12.0	hours	\$155.00	\$1,860.00
Project Specialist	25.8	hours	\$114.00	\$2,935.50
<b>Task Subtotal</b>				<b>\$4,795.50</b>
<b>Task - Cultural Resources - Eligibility and Effects Letter, APE, Visualizations</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	7.0	hours	\$155.00	\$1,085.00
Project Specialist	48.0	hours	\$114.00	\$5,472.00
Project Engineer (GIS)	6.0	hours	\$105.00	\$630.00
<b>Task Subtotal</b>				<b>\$7,187.00</b>

Kara Swanson  
February 25, 2019

<b>Task - SWMP Updates</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	5.0	hours	\$155.00	\$775.00
Project Specialist	10.0	hours	\$114.00	\$1,140.00
Graphics	13.0	hours	\$81.00	\$1,053.00
Senior Engineer	5.0	hours	\$174.00	\$870.00
<b>Task Subtotal</b>				<b>\$3,838.00</b>
<b>Task - Address CCD and CDOT Comments</b>				
<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Extension</b>
<b>Labor Rates</b>				
Project Manager	6.0	hours	\$155.00	\$930.00
Project Specialist	25.0	hours	\$114.00	\$2,850.00
<b>Task Subtotal</b>				<b>\$3,780.00</b>
<b>Change Order Total</b>				<b>\$34,758.50</b>
<b>Project Total</b>				<b>\$76,274.50</b>



February 15, 2019

Cody Keraga, P.E.  
David Evans and Associates, Inc.  
1600 Broadway, Suite 800  
Denver, Colorado 80202

Subject:        Scope of Services  
                    Geotechnical Investigation  
                    Additional Borings – Box Culvert  
                    High Line Canal Trail at Hampden Avenue

Dear Mr. Keraga

This letter presents Yeh and Associates, Inc. proposed scope of work and estimated project costs for providing additional geotechnical services. We understand the location of the proposed box culvert has moved to the east approximately 150 to 200 feet of the previous design location. As a result, two additional geotechnical borings are needed. The following additional services are proposed.

Scope of Additional Services:

1. Obtain appropriate access permits and notify UNCC.
2. Conduct a subsurface investigation that will consist of drilling 2 borings with a truck-mounted, auger drilling rig. Borings will be completed by placing drill cuttings in the boring and patching with a CDOT approved grout. The borings will be drilled to a maximum of 30 feet in depth, or 10 feet into bedrock (whichever occurs first). Traffic control will be required.
3. Perform limited laboratory testing of samples.
4. Prepare a memo summarizing subsurface conditions encountered in the borings.
5. Provide revised engineering geology sheets and soil nail wall plans.

Exclusions: We have assumed that geotechnical conditions encountered in the additional borings will be similar to the borings previously drilled. Supplemental design recommendations for the box culvert or soil nail walls are not included but can be provided should conditions vary. Survey of the boring locations will be provided by others, if needed.

Fee: The client will be invoiced on a time and material basis, not to exceed \$8,820 for the work described above and shown on the attached cost worksheet.

Please contact me if you have any questions or need more information.

Sincerely,  
YEH AND ASSOCIATES, INC.



Samantha C. Sherwood, P.E.  
Project Manager

Reviewed by:  
Todd Schlittenhart, P.E.  
Project Manager

Attachment: Cost Estimate Worksheet

PROJECT COST WORKSHEET											
FIRM NAME: Yeh and Associates		PREPARED BY:		S. Sherwood		DATE:		February 15, 2019			
CONTRACT NUMBER:		PROJECT NAME:		HLC Trail		TASK ORDER:					
WORK ACTIVITY	Principal	Project Manager	Senior Engineer	Geotech Engineer	Senior Geologist	Project Engineer	Technician (Field)	Technician (Lab)	CAD Designer	TOTAL HOURS	TOTAL COST
1.0 Project Management											
1.1 Attend project meetings		2								2	
1.2 Contract Administration		1								1	
1.3 Prepare and submit invoices for payment		1								1	
SUBTOTALS	0	4	0	0	0	0	0	0	0	4	
2.0 Geotechnical Investigation											
2.1 Layout, Permitting and Utility Locates				8						8	
2.2 Conduct Subsurface Exploration				10						10	
2.4 Perform laboratory tests								10		10	
SUBTOTALS	0	0	0	18	0	0	0	10	0	28	
3.0 Geotechnical Investigation - Pavements											
3.1 Layout, Permitting and Utility Locates										0	
3.2 Conduct Subsurface Exploration-Pavements										0	
3.3 Perform laboratory tests										0	
SUBTOTALS	0	0	0	0	0	0	0	0	0	0	
4.0 Geotechnical Design											
4.1 Compile boring logs, test result and geotechnical analysis				4						4	
4.2 Develop foundation recommendations										0	
4.3 Provide excavation and construction recommendations										0	
SUBTOTALS	0	0	0	4	0	0	0	0	0	4	
5.0 Geotechnical Reports and PS&E											
5.1 Prepare and issue revised plans and estimates									4	4	
5.2 Prepare and issue Investigation Summary Memo				4						4	
5.3 Prepare and issue Draft Geotechnical Investigation Reports		4								4	
5.4 Prepare and issue Final Geotechnical Investigation Reports		4								4	
SUBTOTALS	0	8	0	4	0	0	0	0	4	16	
SUBTOTALS - HOURS	0	12	0	26	0	0	0	10	4	52	
SALARY RATE, \$ PER HOUR	\$185.00	\$135.00	\$115.00	\$85.00	\$115.00	\$100.00	\$68.00	\$62.00	\$105.00		
SUBTOTALS - LABOR COSTS, \$	\$ -	\$ 1,620.00	\$ -	\$ 2,210.00	\$ -	\$ -		\$ 620.00	\$ 420.00		\$ 4,870.00
TOTAL LABOR COST, \$	\$4,870.00										

FIXED FEE (9.75%), \$	\$0.00
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TRAVEL & PER DIEM COST	Estimated Units	Unit Rate	Units		TOTAL COST
Vehicle Mileage	0	\$ 0.50	mile		\$ -
Lodging	0	\$ 91.00	night		\$ -
Per Diem	0	\$ 56.00	day		\$ -

PROJECT COST WORKSHEET											
FIRM NAME: Yeh and Associates			PREPARED BY: S. Sherwood			DATE: February 15, 2019					
CONTRACT NUMBER:			PROJECT NAME: HLC Trail			TASK ORDER:					
WORK ACTIVITY	Principal	Project Manager	Senior Engineer	Geotech Engineer	Senior Geologist	Project Engineer	Technician (Field)	Technician (Lab)	CAD Designer	TOTAL HOURS	TOTAL COST
Airfare			each								\$ -
TOTAL TRAVEL AND PER DIEM COST, \$		\$0.00									

DRILLING & OTHER SUBSURFACE INVESTIGATION COST	Estimated Units	Unit Rate	Units		TOTAL COST
Traffic Control	1	\$ 1,100.00	day		\$ 1,100.00
Exploration (CME 75, ODEX/CORE)	1	\$ 2,450.00	LS		\$ 2,450.00
Permits	2	\$ 200.00	LS		\$ 400.00
	0		LS		\$ -
TOTAL EXPLORATION COSTS, \$	\$3,950.00				

LABORATORY & FIELD TEST COST	Estimated Units	Unit Rate	Units		TOTAL COST
Atterberg Limits			each		\$ -
Washed Sieve			each		\$ -
#200 Wash			each		\$ -
Moisture Content			each		\$ -
Dry Density			each		\$ -
pH			each		\$ -
Sulfate Content			each		\$ -
Chloride Content			each		\$ -
Resistivity (laboratory)			each		\$ -
Laboratory Moisture-Density			each		\$ -
Modified Proctor			each		\$ -
Swell-Consolidation			each		\$ -
R Value			each		\$ -
TOTAL OUTSIDE LAB COST, \$	\$0.00				

TOTAL PROJECT COST, \$	\$8,820.00
------------------------	------------



February 22, 2019

Mr. Cody Keraga  
David Evans and Associates, Inc  
1600 Broadway, Suite 800  
Denver, CO 80202

**Re: HLC Trail, Hampden/Colorado  
Supplemental Survey and SUE QLB Proposal**

Dear Cody,

Thank you for the opportunity to provide additional land surveying and engineering services to you with regard to the above referenced project. Attached please find exhibit "A", our proposed scope of services for the Supplemental Survey QLB locates and exhibit "B" our proposed fee estimate. This scope of services is based upon your request and the information provided by Elissa Roselyn with Goodbee and Associates.

Should you have questions or concerns regarding this proposed scope of services please do not hesitate to contact us. Again, thank you and we look forward to working with you.

Sincerely,  
Harris Kocher Smith

Aaron Murphy  
Associate Principal

**EXHIBIT “A”**  
**SCOPE OF SURVEYING SERVICES**  
**HLC TRAIL – HAMPDEN/COLORADO**  
**DENVER, COLORADO**

**I. Supplemental Topographic Survey**

Provide supplemental topographic surveying for the area shown on the attached survey limits map to suitable for design purposes. Map will be a 1-foot contour map supplemented with spot elevations where necessary and will be appended to map previously prepared for the project. Sprinkler heads and other visible irrigation appurtenances locations, as indicated on maps provided, will be surveyed within the utility locating limits, outlined in blue and depicted on the attached map.

**II. SUE Compliant QLB Utility Investigation:**

**A. ASCE Standard 38-02 Quality Level B Utility Locates**

Provide ASCE 38-02 Quality Level B Utility Locates for the utility locating limits, outlined in blue and depicted on the attached map. The utility locates will include the following elements and tasks:

1. Contact UNCC with a subsurface utility engineering notification to acquire all utility information and existing mapping/schematics relative to the project limits.
2. Perform ASCE Standard 38-02 Quality Level B Utility Locates utilizing the appropriate geophysical method to search for utilities within the QLB project limits.
3. Interpret the surface geophysics and note all determinable attributes such as size, material type, age, condition, ownership, number of conduits, etc.
4. Mark the indication of utilities on the ground surface for subsequent survey.
5. Resolve difference between designated utilities and utility records and surveyed appurtenances.
6. Provide recommendation for additional measure to help resolve differences if they still exist. Such recommendations may include additional surface geophysical methods, exploratory excavation, or and upgrade to Quality Level A locates. ASCE Standard 38-02 Quality Level A locates are not included in this scope of services.

**B. Subsequent Utility Survey**

Provide a utility survey for the area delineated on the attached extents map and outlined in blue. The survey will include the following elements and tasks:

1. **Utility Survey** – Utilities marked within the QLB area will



be field surveyed by HKS field crews and subsequently shown on the overall design survey. HKS will provide invert elevations, size, and material for all storm and sanitary sewer appurtenances that are easily accessible and not within the traveled lanes within the project extents. HKS field employees are restricted from entering confined spaces. Invert elevations, pipe size and material will be acquired to the best of our ability from the roadway surface and checked to City and County of Denver sewer maps.

**C. ASCE Standard 38-02 Quality Level B Utility Locate Deliverable w/ P.E. Certification**

Provide a PE certified CADD deliverable plan sheet in conformance with ASCE 38-02 standards for Quality Level B locate requirements depicting the horizontal only location of all utilities located within P.E. certified plan limits as depicted within the attached map. The certified deliverable is limited to the certified plan limits only and will include the following elements and tasks:

1. Data & plan review
2. Quality level attributes, color, line style, line weight
3. Labeling and notes
4. Utility depiction legend
5. P.E. certification
6. Corresponding notes & documentation

**EXHIBIT “B”  
FEE SCHEDULE  
HLC TRAIL – HAMPDEN/COLORADO  
DENVER, COLORADO**

**I. Supplemental Topographic Survey ----- \$ 7,500.00**

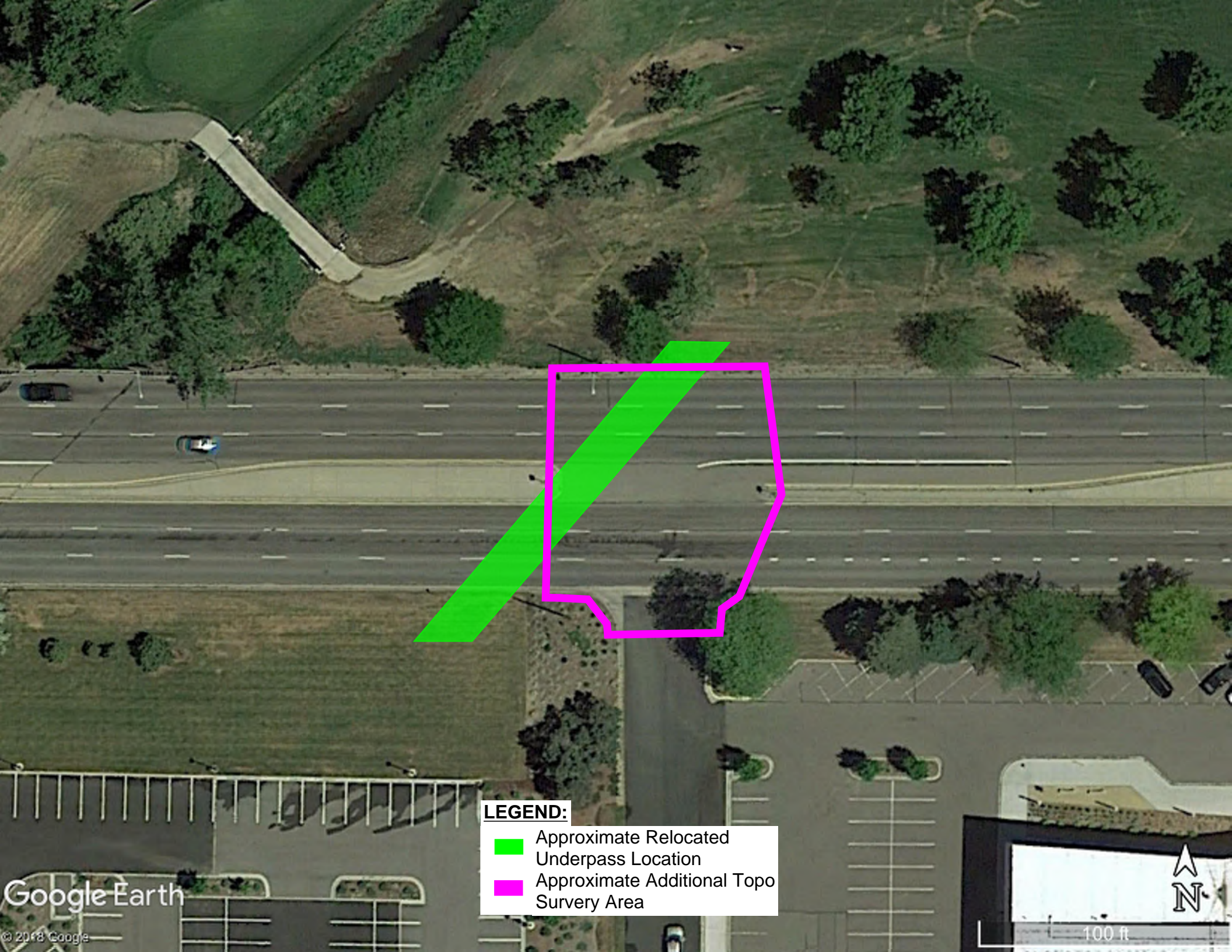
**II. SUE Compliant QLB Utility Investigation**

A. ASCE Standard 38-02 Quality Level B Utility Locates ----- \$ 10,795.00



B. Subsequent Utility Survey ----- \$ 5,080.00

C. ASCE 38-02 Quality Level B Deliverable w/ P.E. Certification ----- \$ 6,000.00

TOTAL-----\$29,375.00



**LEGEND:**

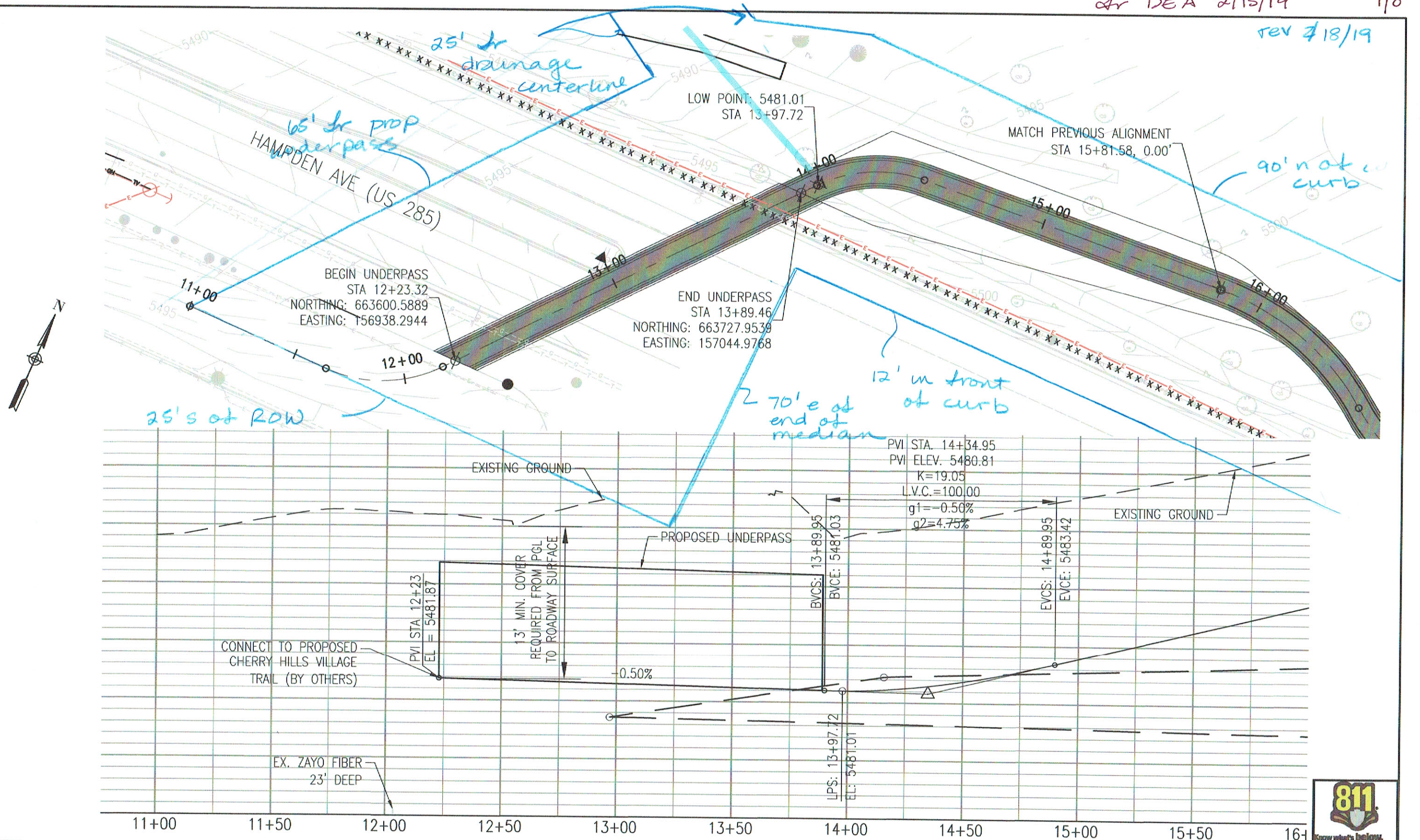
-  Approximate Relocated Underpass Location
-  Approximate Additional Topo Survey Area

Google Earth

© 2018 Google







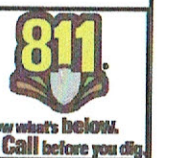
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City Project Manager: John La Sala

Sheet Revisions		
Date:	Comments	Init.

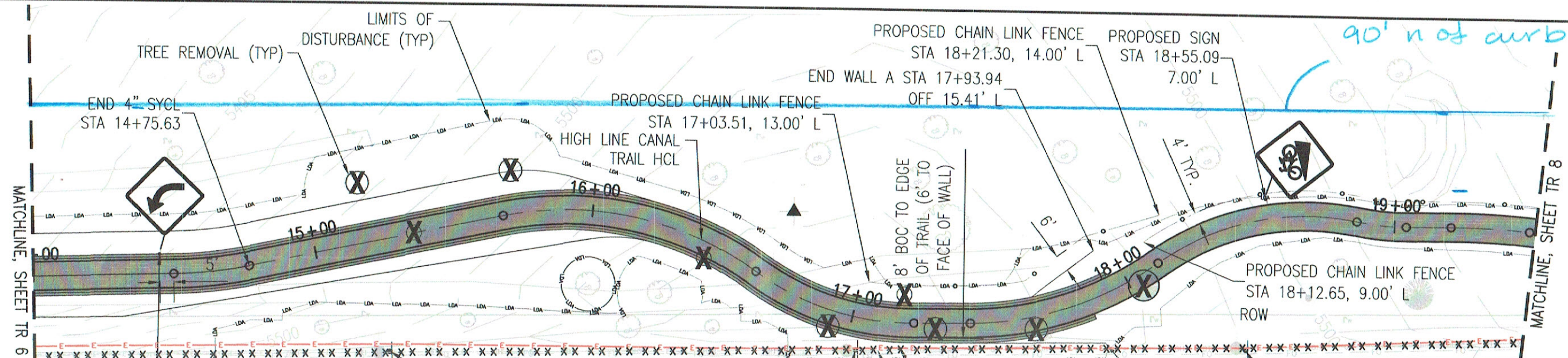
**DEPARTMENT OF PUBLIC WORKS**  
201 WEST COLFAX AVENUE  
DENVER, CO 80202  
PHONE: (720) 913-4501  
FAX: (720) 913-4544

As Constructed	HLC TRAIL - HAMPDEN/COLORADO HAMPDEN UNDERPASS EXHIBIT	
No Revisions:	Designer: EMG	Structure Numbers
Revised:	Detailer: SPC	
Void:	Sheet Subset: TRAIL	Subset Sheets: TR 6 OF 21

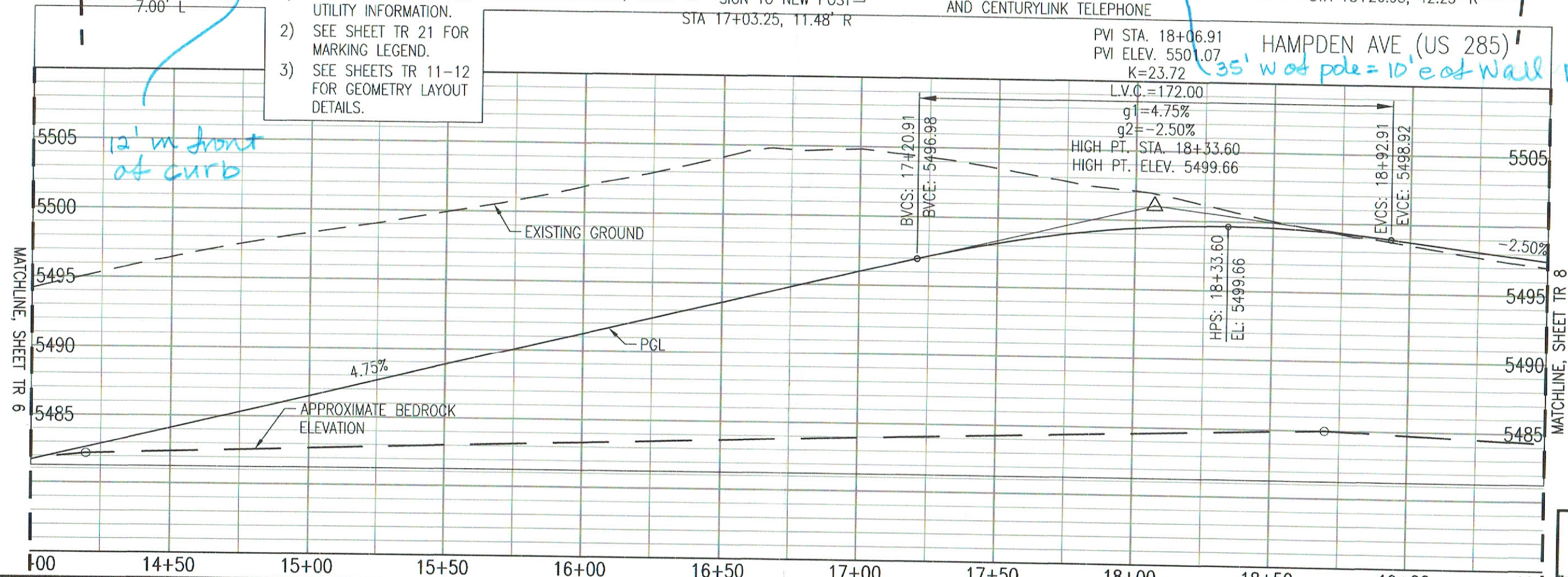
Project Number
TAP-M320-102
21119
Sheet Number







- NOTES:**
- 1) SEE UTILITY PLANS FOR UTILITY INFORMATION.
  - 2) SEE SHEET TR 21 FOR MARKING LEGEND.
  - 3) SEE SHEETS TR 11-12 FOR GEOMETRY LAYOUT DETAILS.



Print Date: 7/10/2017  
 File Name: 21119\_RD\_PP\_01.DWG  
 Horiz. Scale: 1"=40' Vert. Scale: 1"=8'  
 City Project Manager: John La Sala

Sheet Revisions		
Date:	Comments	Init.



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As Constructed
No Revisions:
Revised:
Void:

**HLC TRAIL - HAMPDEN/COLORADO**  
**PROPOSED TRAIL PLAN/PROFILE**  
**SHEET 2 OF 5**  
 Designer: EMG  
 Detailer: SPC  
 Sheet Subset: TRAIL  
 Structure Numbers:     
 Subset Sheets: TR 7 OF 21

**Project Number**  
 TAP-M320-102  
 21119  
**Sheet Number**  
 24



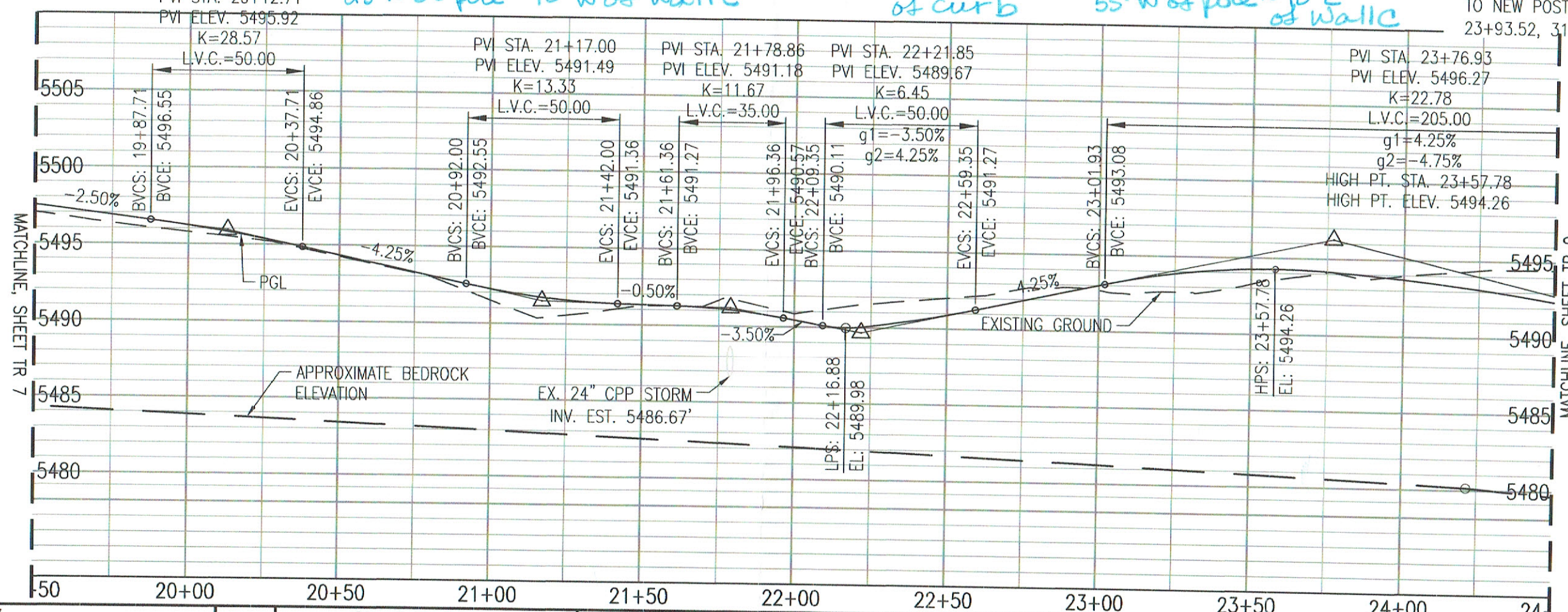
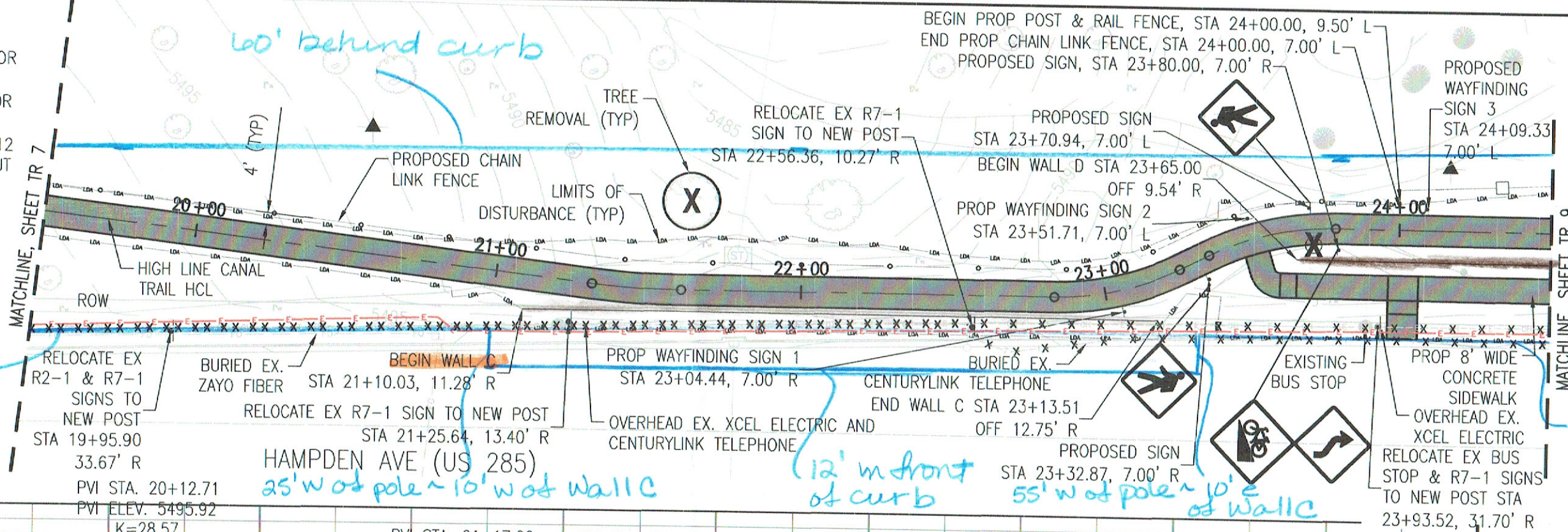
MATCHLINE, SHEET TR 6

MATCHLINE, SHEET TR 8



**NOTES:**

- 1) SEE UTILITY PLANS FOR UTILITY INFORMATION.
- 2) SEE SHEET TR 21 FOR MARKING LEGEND.
- 3) SEE SHEETS TR 11-12 FOR GEOMETRY LAYOUT DETAILS.



Print Date: 7/10/2017  
 File Name: 21119\_RD\_PP\_01.DWG  
 Horiz. Scale: 1"=40' Vert. Scale: 1"=8'  
 City Project Manager: John La Sala

Sheet Revisions		
Date:	Comments	Init.



**DEPARTMENT OF PUBLIC WORKS**  
 201 WEST COLFAX AVENUE  
 DENVER, CO 80202  
 PHONE: (720) 913-4501  
 FAX: (720) 913-4544

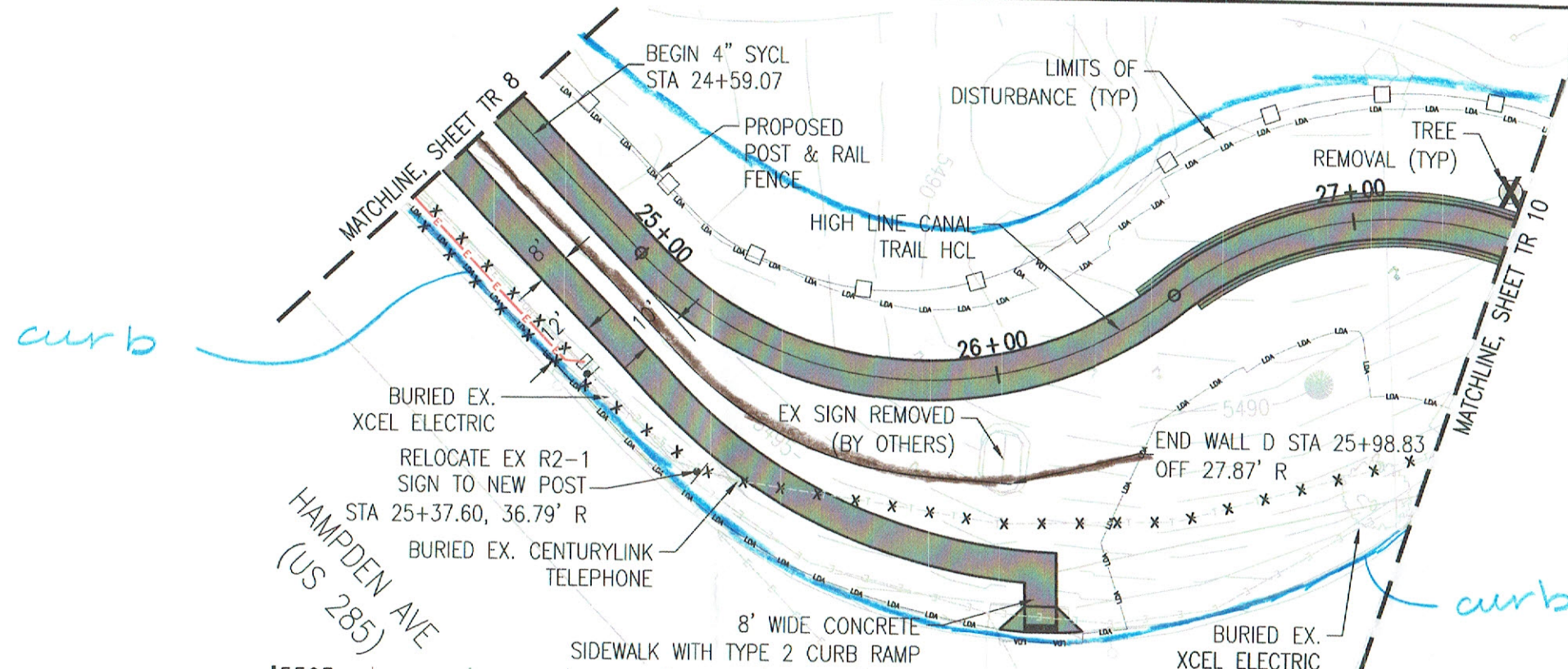
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HLC TRAIL - HAMPDEN/COLORADO PROPOSED TRAIL PLAN/PROFILE SHEET 3 OF 5		
Designer:	EMG	Structure Numbers
Detailer:	SPC	
Sheet Subset:	TRAIL	Subset Sheets: TR 8 OF 21

Project Number
TAP-M320-102
21119
Sheet Number
25

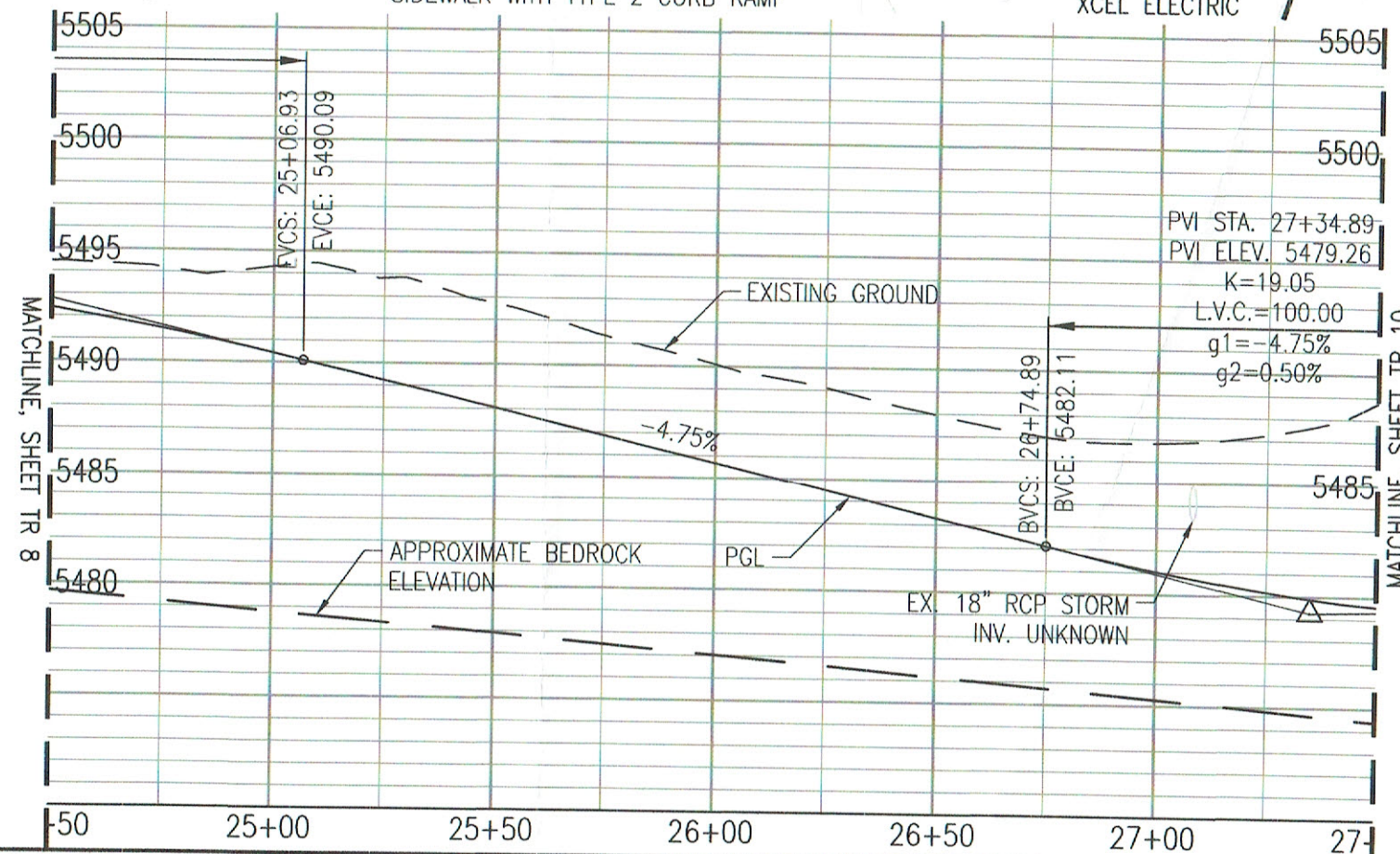






NOTES:

- 1) SEE UTILITY PLANS FOR UTILITY INFORMATION.
- 2) SEE SHEET TR 20 FOR RAMP DETAIL.
- 3) SEE SHEET TR 21 FOR MARKING LEGEND.
- 4) SEE SHEETS TR 11-12 FOR GEOMETRY LAYOUT DETAILS.



Print Date: 7/10/2017  
 File Name: 21119\_RD\_PP\_01.DWG  
 Horiz. Scale: 1"=40' Vert. Scale: 1"=8'  
 City Project Manager: John La Sala

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Sheet Revisions

Date:	Comments	Init.



DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE  
 DENVER, CO 80202  
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As Constructed

No Revisions:  
 Revised:  
 Void:

HLC TRAIL - HAMPDEN/COLORADO  
 PROPOSED TRAIL PLAN/PROFILE  
 SHEET 4 OF 5

Designer: EMG  
 Detailer: SPC  
 Sheet Subset: TRAIL  
 Structure Numbers:  
 Subset Sheets: TR 9 OF 21

Project Number

TAP-M320-102

21119

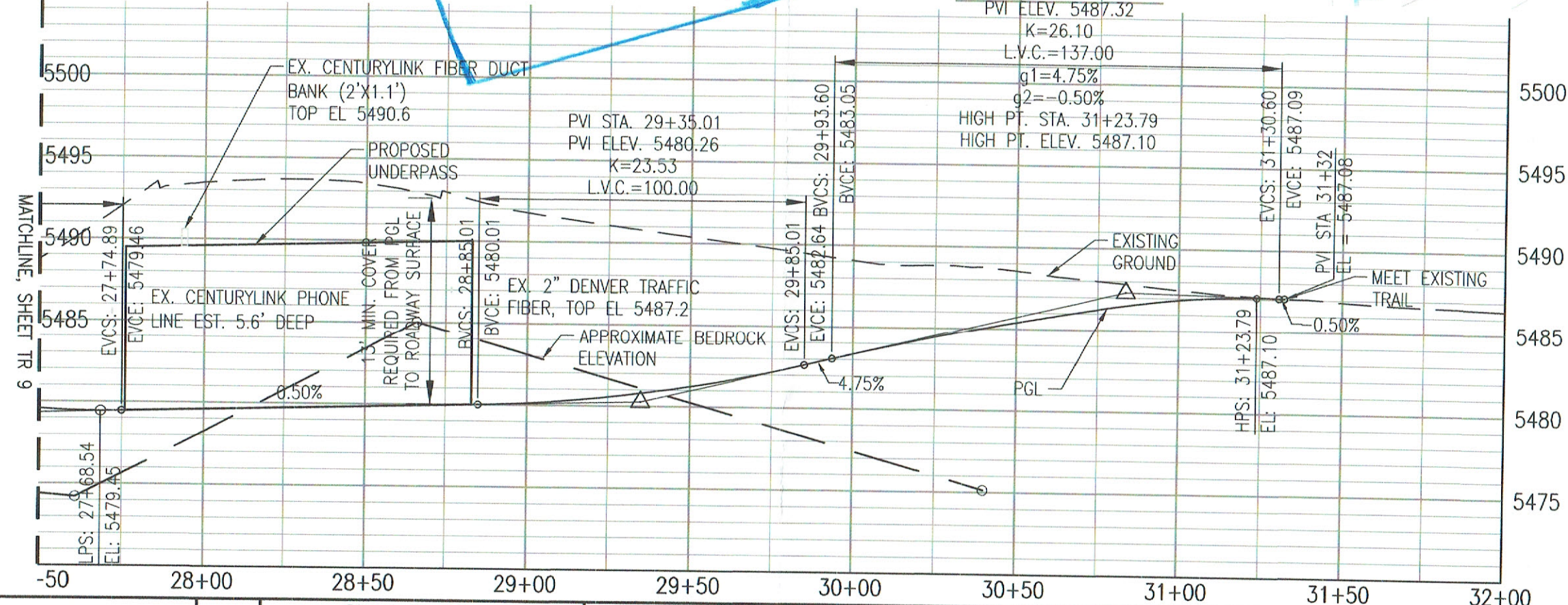
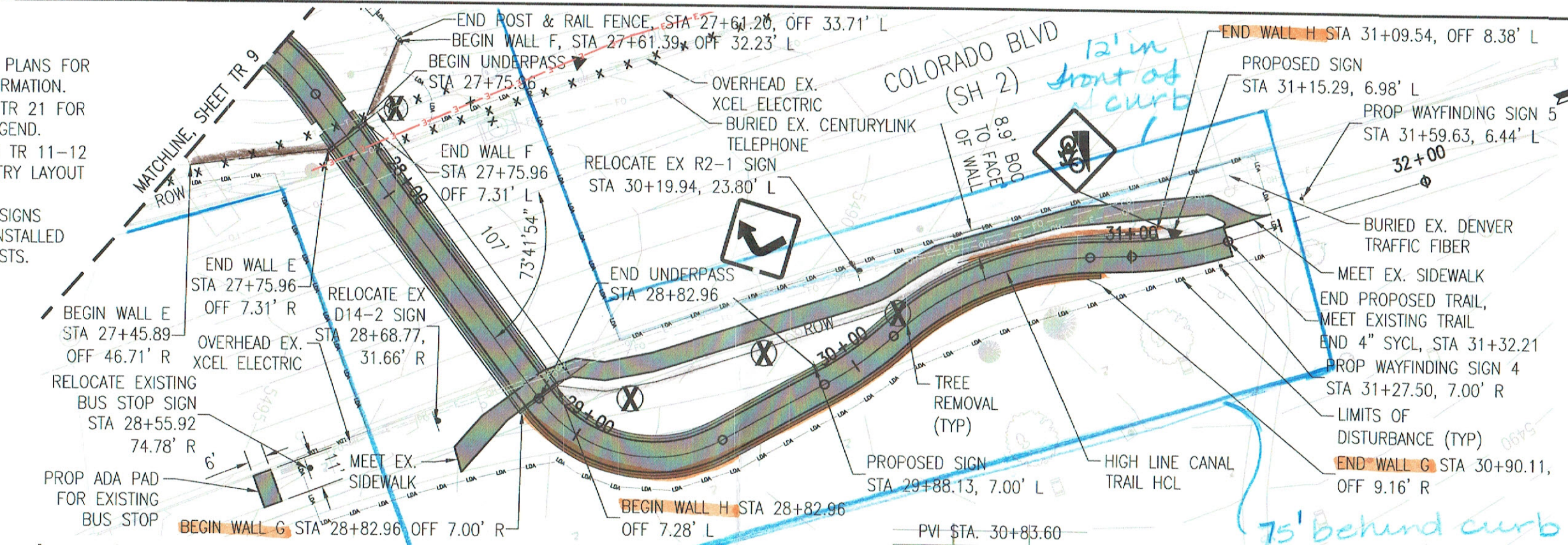
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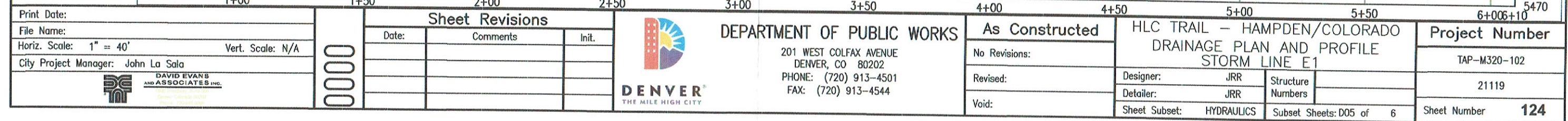
NOTES:

- 1) SEE UTILITY PLANS FOR UTILITY INFORMATION.
- 2) SEE SHEET TR 21 FOR MARKING LEGEND.
- 3) SEE SHEETS TR 11-12 FOR GEOMETRY LAYOUT DETAILS.
- 4) RELOCATED SIGNS SHALL BE INSTALLED ON NEW POSTS.



Print Date: 7/10/2017 File Name: 21119_RD_PP_01.DWG Horiz. Scale: 1"=40'    Vert. Scale: 1"=8' City Project Manager: John La Sala		<b>Sheet Revisions</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Date:	Comments	Init.										 <b>DEPARTMENT OF PUBLIC WORKS</b> 201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">As Constructed</th> </tr> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </table>		As Constructed		No Revisions:		Revised:		Void:		<b>HLC TRAIL - HAMPDEN/COLORADO</b> <b>PROPOSED TRAIL PLAN/PROFILE</b> SHEET 5 OF 5		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Project Number</th> </tr> <tr> <td colspan="2">TAP-M320-102</td> </tr> <tr> <td colspan="2">21119</td> </tr> <tr> <td colspan="2">Sheet Number <b>27</b></td> </tr> </table>		Project Number		TAP-M320-102		21119		Sheet Number <b>27</b>	
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Sheet Number <b>27</b>																																							
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Goodbee and Associates, Inc.  
City and County of Denver - High Line Canal Trail Underpasses Project  
QLB Evaluation  
Scope and Fee Estimate  
04/08/19

Task	Description of Activities /Assumptions	PM III	Designer	CAD I	Total Hrs.	Total Cost (2019 Contract Rates)
		\$140/hr	\$100/hr	\$75/hr		
Utility Coordination	<b>Private Utility Designating (QL B):</b> Identify areas meeting criteria requiring QLB. Coordinate with SUE provider to designate utilities and provide sealed SUE plans/report. Coordinate with project surveyor to survey utility markings. Field check QLB report/plans and utility survey. Update existing utility base file per new survey file.	26	8	8	42	\$5,040
<b>TOTAL LABOR</b>		<b>26</b>	<b>8</b>	<b>8</b>	<b>42</b>	<b>\$5,040</b>

**Assumptions and Exclusions:**

1. Scope of work consists of bringing project into compliance with SB-167 requirements.
2. Assume no additional billing periods.
3. CAD work in AutoCAD.
4. SUE provider and surveyor under HKS' contract.

# Larry Rodgers Design Group



February 25, 2019

David Evans & Associates  
Attn: Cody Keraga PE  
1600 Broadway, Suite 800  
Denver, CO 80202  
Re: Wellshire golf course irrigation

Thank you for the call last week I would think we will need to complete the following for The Highline canal improvements at Wellshire golf course:

1) Initial planning and meeting 4 hours: LR at \$95/hr	\$	380
2) preparation of bid documents 48 hours	\$	4,560
3) review of bids and attend pre-bid meetings 12 hours	\$	1,140
4) (2) site review meetings and irrigation staking 16 hours Surveyor @\$65/hr	\$	1,040
5) update existing irrigation system plans 16 hours draftsman \$60/hr	\$	<u>960</u>
Sub Total	\$	8,080

## Summary of Scope Required:

- Irrigation Removal Plans
- Proposed Irrigation Plans
- Irrigation System quantities and approximate estimated unit costs (tabulation in plans and excel)
- Any special provisions (word document) required for the irrigation system removal and construction, including Contractor qualifications requirements, if required