



City of Tukwila Transportation and Infrastructure Services Committee

- ❖ Verna Seal, Chair
- ❖ De'Sean Quinn
- ❖ Thomas McLeod

Distribution: V. Seal D. Quinn T. McLeod K. Kruller C. Hougardy L. Humphrey H. Ponnekanti D. Nguyen (email) B. Still (email)	City Attorney (email) Clerk File Copy Place pkt pdf on SharePoint Z Trans & Infra Agendas email cover to: F. Ayala, A. Le, C. O'Flaherty, A. Youn, B. Saxton, S. Norris, L. Humphrey
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AGENDA

MONDAY, AUGUST 9, 2021 – 5:30 PM

Virtual Meeting - Members of the public may listen by dialing 1-253-292-9750 and entering conference ID, 832324833#

[Click here to join the meeting](#)

(6300 BUILDING, SUITE 100)

Item	Recommended Action	Page
1. PRESENTATIONS		
2. BUSINESS AGENDA		
a) Macadam Road South Sidewalk Improvements Project TIB Grant Application (B. Robinson)	a) Discussion only	Pg. 1
b) Surface Water Fund - 2021 Annual Small Drainage Prg. Bid Award (R. Larson)	b) Forward to the 08/16/2021 Consent Agenda	Pg. 5
c) East Marginal Way S Stormwater Outfalls Project Supplemental Agreement (R. Larson)	c) Forward to the 08/16/2021 Consent Agenda	Pg. 13
d) School Zone Automated Traffic Safety Camera Revenue Resolution (L. Humphrey)	d) Forward to 08/23/2021 Committee of the Whole and Special Meeting	Pg. 193
3. MISCELLANEOUS		
	Future Agenda:	
	<ul style="list-style-type: none"> • Neighborhood Traffic Calming Program Update 	

Next Scheduled Meeting: Monday, August 23, 2021

The City of Tukwila strives to accommodate individuals with disabilities.
Please contact the Public Works Department at **206-433-0179** for assistance.



INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Services Committee
FROM: Hari Ponnekanti, Public Works Director/City Engineer
BY: Brittany Robinson, Public Works Grant Analyst
 Adib Altallal, Utilities Engineer
CC: Mayor Ekberg
DATE: August 6, 2021
SUBJECT: Macadam Road South Sidewalk Improvements Project
 Project No. 90440105 & 91710302
 Transportation Improvement Board Grant Application

ISSUE

Authorize the submittal of a Transportation Improvement Board (TIB) grant application to fund sidewalk improvements along Macadam Road South.

BACKGROUND

Macadam Road South has two projects prioritized in the 2021-2026 Capital Improvement Plan, the Macadam Road South Water Upgrade and the Macadam Road South Complete Street Project. As part of the Macadam Road South Water Upgrade, roadways and sidewalks being torn out to replace the waterline will be replaced, and the entire length of Macadam will have new or existing sidewalks except for 1,200 linear feet by the completion of the project. The Macadam Road South Complete Street Project will fill this gap by supporting sidewalk construction along Macadam Rd. S. from S. 150th St. to S 144th St.

DISCUSSION

The City has the opportunity to apply for funding from the Transportation Improvement Board Urban Sidewalk Program to construct new sidewalks, gutters, and curbs along Macadam Road South, creating a clean connection between new and existing sidewalks from Southcenter Boulevard to S 144th St, and filling all sidewalk gaps. The Transportation Improvement Board’s call for projects to improve arterials and sidewalks in Washington State is currently open.

FISCAL IMPACT

Grant applications are due by August 13, 2021, with projects selected in November 2021 and funding allocated in early 2022. A preliminary cost estimate for \$400,000 has been prepared to construct 1,200 linear feet of sidewalks, curbs, and gutters. The grant application indicates that a 20% local city match, or \$80,000, is required. The city match can be allocated from the Macadam Rd South Complete Street Project, which shares the common goal of constructing sidewalks along Macadam Rd South from S 150th St. to S 144th St.

Project	Fee/Estimate	Fund Source	Amount	Project Budgets
Water Upgrades	\$ 2,206,164.00	Utility Revenue	\$ 2,206,164.00	\$ 2,418,000.00
Sidewalk Improvements	400,000.00	City Revenue	80,000.00	3,600,000.00
		TIB Grant	320,000.00	
Total	\$ 2,606,164.00		\$ 2,606,164.00	\$6,018,000.00

RECOMMENDATION

The Transportation and Infrastructure Services Committee is being asked to approve the application for the Transportation Improvement Board sidewalk improvements grant and required City match.

ATTACHMENTS: CIP Pages, 5 & 61
Preliminary Cost Estimate

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2021 to 2026

PROJECT: Macadam Rd South Complete Street

Project No. 91710302

DESCRIPTION: Construction of a complete street design for Macadam Rd South between South 144th St and S 150th St. The project will require roadway widening and re-channelization to add 5-foot bike lanes and 5-foot sidewalks on both sides of the roadway, and includes illumination, curb, and storm drainage.

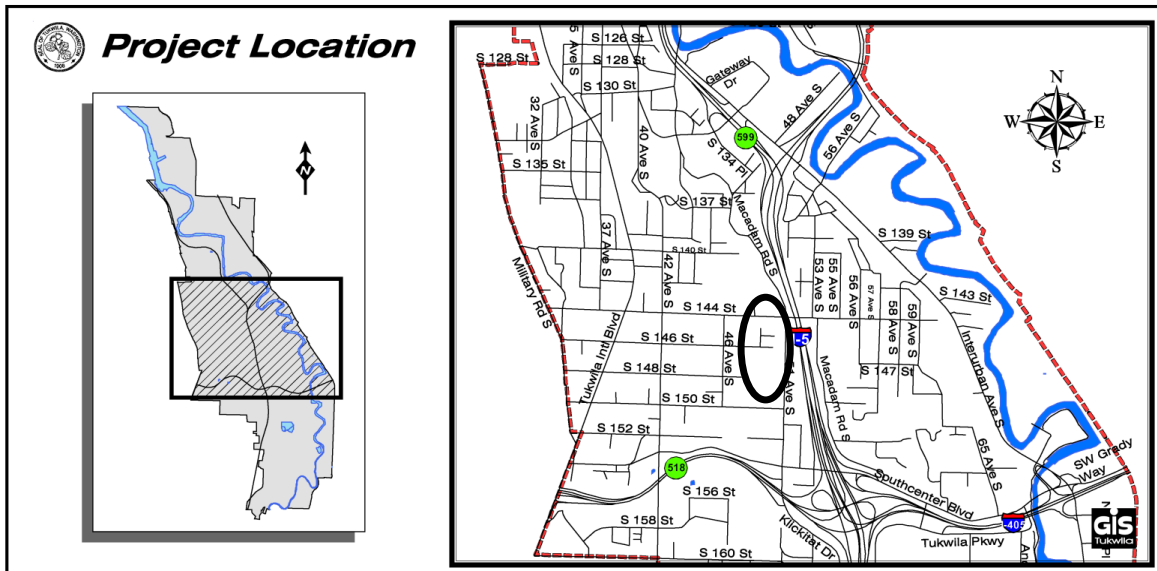
JUSTIFICATION: Enhance safety for students walking to Foster High School and Showalter Middle School and encourages transportation choices for the neighborhood.

STATUS:

MAINT. IMPACT: New sidewalk and pavement will need to be maintained.

COMMENT: WSDOT Pedestrian/Bicycle grant submitted in April 2018, but unsuccessful. Match will be the Water Improvements. Apply for same grant in 2020 for design and 2022 for construction.

FINANCIAL (in \$000's)	Through		Estimated							TOTAL
	2019	2020	2021	2022	2023	2024	2025	2026	BEYOND	
EXPENSES										
Design				400						400
Land (R/W)				100						100
Const . Mgmt.					400					400
Construction					2,700					2,700
TOTAL EXPENSES	0	0	0	500	3,100	0	0	0	0	3,600
FUND SOURCES										
Awarded Grant										0
Proposed Grant				450	2,800					3,250
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	0	0	0	50	300	0	0	0	0	350
TOTAL SOURCES	0	0	0	500	3,100	0	0	0	0	3,600



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2021 to 2026

PROJECT: Macadam Rd S Water Upgrade

Project No. 90440105

DESCRIPTION: Design and construct 4,300 LF of 10" waterline in Macadam Rd S from S 144th St to Southcenter Blvd.

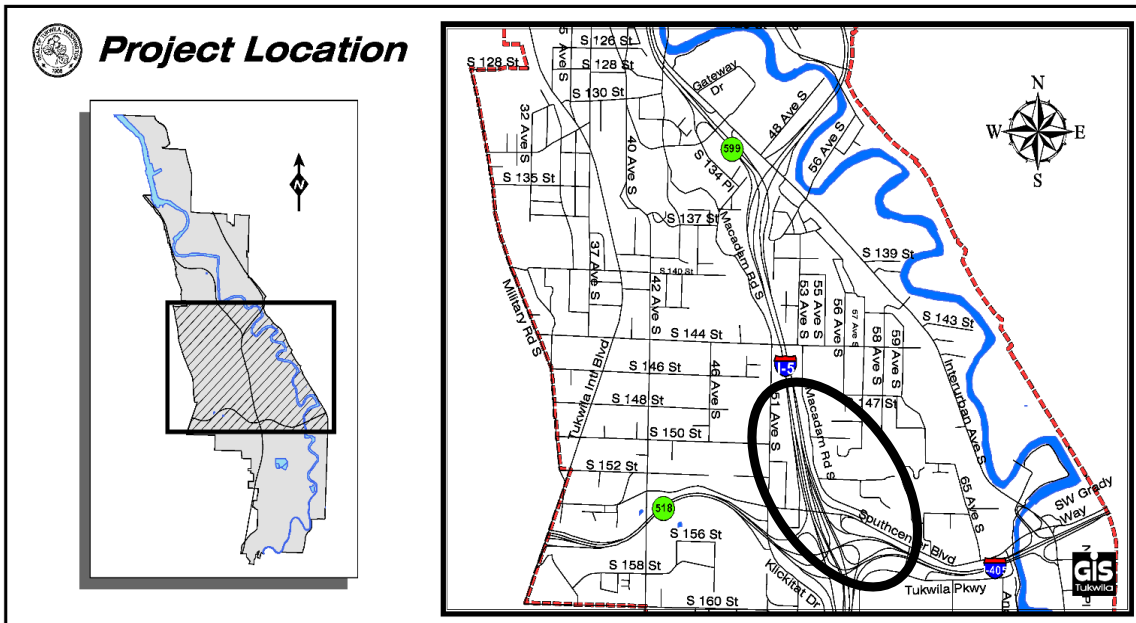
JUSTIFICATION: Improve fire flow water quality to the north side of Tukwila Hill.

STATUS: Project now scheduled for 2021/2022.

MAINT. IMPACT: The new waterline will eliminate maintenance time for flushing the dead end line while increasing service reliability.

COMMENT: Pedestrian/Bicycle Program grant for sidewalks unsuccessful in 2018, with water funds used as a match.

FINANCIAL (in \$000's)	Through Estimated									
	2019	2020	2021	2022	2023	2024	2025	2026	BEYOND	TOTAL
EXPENSES										
Design	68		100	50	50					268
Land (R/W)										0
Const. Mgmt.			250	50	300					600
Construction			300	300	950					1,550
TOTAL EXPENSES	68	0	650	400	1,300	0	0	0	0	2,418
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	68	0	650	400	1,300	0	0	0	0	2,418
TOTAL SOURCES	68	0	650	400	1,300	0	0	0	0	2,418





INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Services Committee**
 FROM: **Hari Ponnekanti, Public Works Director/ City Engineer**
 BY: **Ryan Larson, Senior Program Manager**
 CC: **Mayor Ekberg**
 DATE: **August 6, 2021**
 SUBJECT: **Surface Water Fund - 2021 Annual Small Drainage Program**
Project No. 92141201
Bid Award

ISSUE

Award a contract to Titan Earthwork, LLC for construction of the 2021 Annual Small Drainage Program.

BACKGROUND

The Small Drainage Program constructs drainage projects throughout the City that are too large for City staff to complete, but are smaller than a typical capital improvement project. The projects originate from citizen complaints and maintenance staff recommendations and are compiled on the Small Drainage Project List. Each year the projects are prioritized based on need, expense, permitting requirements, and length of time on the list. The highest priority projects are then designed and constructed. The 2021 Annual Small Drainage Program will provide drainage improvements at six locations, as noted in the attached project location map.

DISCUSSION

The 2021 Annual Small Drainage Program was advertised for bids on July 13, 2021, and July 20, 2021. Two bids were received and opened on July 27, 2021. The bids were checked, tabulated, and no errors were found. Titan Earthwork is the apparent low bidder with an overall bid of \$728,225.00. The engineer’s estimate was \$624,840.00.

BUDGET AND BID SUMMARY (All amounts include sales tax)

	<u>Bid Results</u>	<u>Estimate</u>	<u>Budget</u>
Bid Amount (Schedule A & B)	\$ 728,225.00	\$ 624,840.00	
2021 Construction Budget			\$ 700,000.00
2020 Unused Construction Budget			\$ 101,047.50
Contingency (10%)	72,822.50		
Total	<u>\$ 801,047.50</u>	<u>\$ 624,840.00</u>	<u>\$ 801,047.50</u>

RECOMMENDATION

Council is being asked to award the construction contract for the 2021 Annual Small Drainage Program to Titan Earthwork in the amount of \$728,225.00 and consider this item on the Consent Agenda at the August 16, 2021, Regular Meeting.

ATTACHMENTS: 2021 CIP, page 78
 Project Location Map
 Project Award Recommendation Letter
 Bid Tabulation

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2021 to 2026

PROJECT: Annual Small Drainage Program

Project No. 9xx41201
81241207

DESCRIPTION: Select, design, and construct small drainage projects throughout the City.

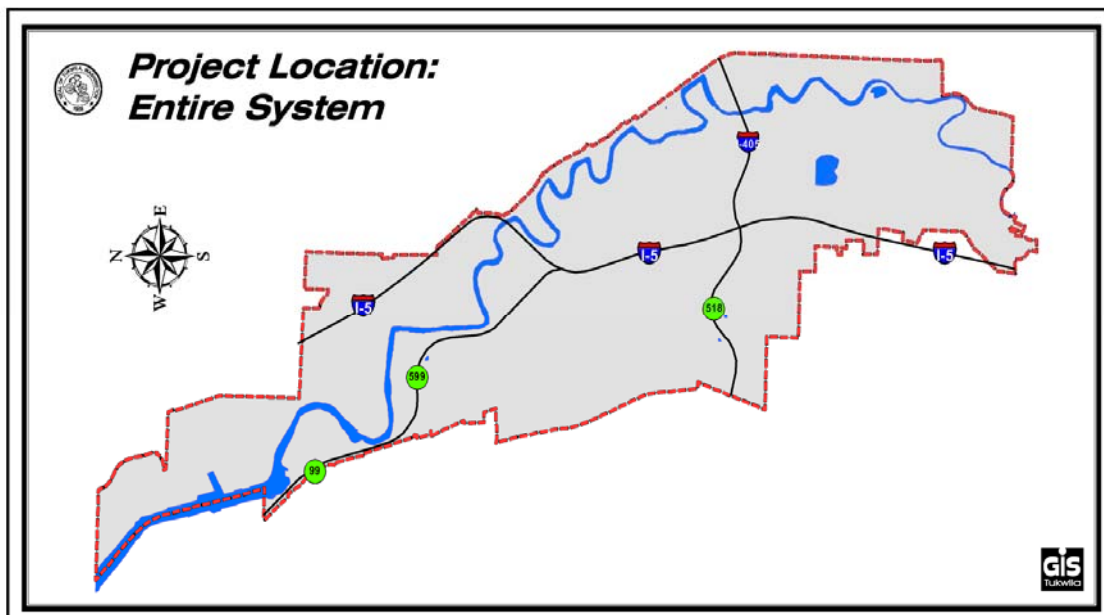
JUSTIFICATION: Provide drainage corrections for existing/ongoing drainage problems throughout the City, including culvert replacements, drain extensions, and pavement upgrades.

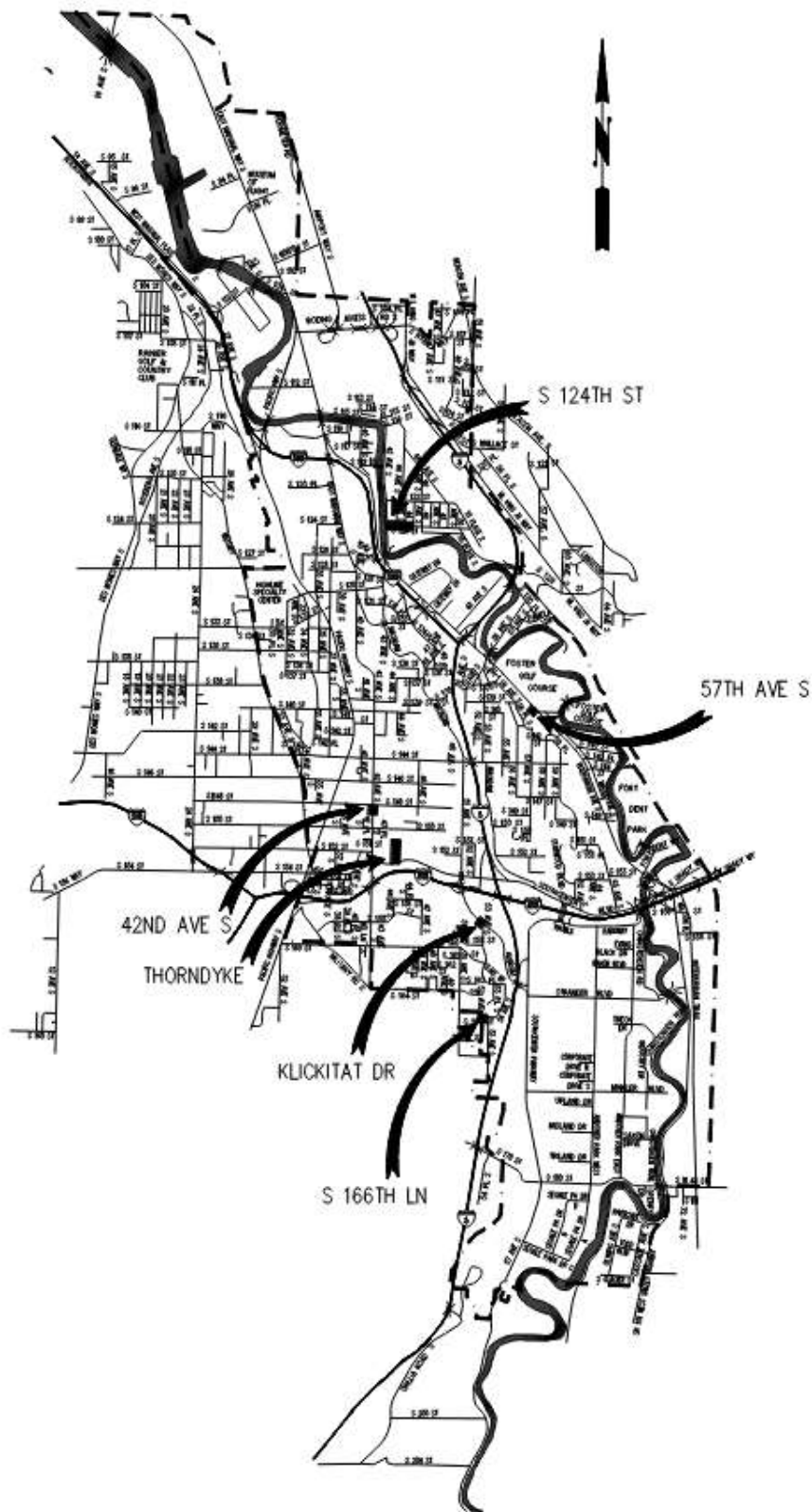
STATUS: Projects for this annual program are taken from Small Drainage Project List.

MAINT. IMPACT: Reduces maintenance.

COMMENT: Ongoing project, only one year shown in first column. Construction expenses may occur over two calendar years.

FINANCIAL (in \$000's)	Through Estimated		2021	2022	2023	2024	2025	2026	BEYOND	TOTAL
	2019	2020								
EXPENSES										
Design	74	92	100	100	100	100	110	110	80	866
Const. Mgmt.	40	68	100	100	100	100	110	110	80	808
Construction	108	515	700	700	700	700	750	750	513	5,436
TOTAL EXPENSES	222	675	900	900	900	900	970	970	673	7,110
FUND SOURCES										
Awarded Grant										0
Proposed Grant	65									65
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	157	675	900	900	900	900	970	970	673	7,045
TOTAL SOURCES	222	675	900	900	900	900	970	970	673	7,110





2021 Annual Small Drainage – Project Locations



July 27, 2021

City of Tukwila
6200 Southcenter Boulevard
Tukwila, WA 98188

Attention: Ryan Larson
Reference: City of Tukwila
2021 Small Drainage Program
Contract No. #92041201
Subject: **Project Award Recommendation**

Mr. Larson,

As requested, KPG has completed the verification for Titan Earthwork, LLC for the 2021 Small Drainage Program.

We have checked the status of Titan Earthwork, LLC on the Washington State Labor and Industries web page to confirm they are currently insured, bonded, and licensed. Additionally, no strikes or debarment records arose federally or statewide regarding Titan Earthwork, LLC. There were four subcontractors listed on their bid form to confirm.

We phoned the references listed in Titan Earthwork, LLC's bid and were able to speak with 2: Patrick Donahue/Seattle City Light and Eva Kim/Seattle Pacific University.

Patrick Donahue is with Seattle City Light and had nothing but good things to say about their experience with Titan Earthwork, LLC and Josh Vogt, Titan's project manager. He said they were great to work with for change orders and were always fair. He also said they were always efficient, on time, they did a great job communicating to residents in the area, especially while families were schooling their children from home during COVID. Patrick gave Titan Earthwork, LLC an A+ all the way around.

Eva Kim is with Seattle Pacific University and worked with Josh Dziedzic at Titan for a water main project in early 2020. She said they were wonderful to work with and she would recommend them anytime. This was during the Pandemic and they were very flexible and informative to SPU as well as the local residents. She would hire them again without question.

It is KPG's recommendation that the 2021 Small Drainage Program project be awarded to Titan Earthwork, LLC.

We have enclosed the contractor verification package for your review.

Respectfully,

Kelsey Anderson, P.E.
Project Manager
KPG, P.S.

CC: Ryan Larson, City of Tukwila Kelly Clark, KPG
Nelson Davis, KPG

Contractors

TITAN EARTHWORK LLC

Owner or tradesperson

Principals

MCKENZIE, BRETT
 KINNARD, PARTNER/MEMBER

GILL, WILLIAM (BILL)
 EDWARD, PARTNER/MEMBER

GREILING, STEVEN
 ROBERT, PARTNER/MEMBER

1585 VALENTINE AVE SE
 PACIFIC, WA 98047
 206-325-3004
 KING County

Doing business as

TITAN EARTHWORK LLC

WA UBI No.

602 605 763

Business type

Limited Liability Company

Governing persons

WILLIAM

GILL

STEVEN R GREILING;
 BRETT MC KENZIE;

License

Verify the contractor's active registration / license / certification (depending on trade) and any past violations.

Construction Contractor

Active

Meets current requirements.

License specialties

GENERAL

License no.

TITANEL936CO

Effective — expiration

02/20/2007— 06/15/2022

Bond

Berkley Insurance Co

\$12,000.00

Bond account no.

0182016

Received by L&I

05/15/2014

Effective date

06/14/2014

Expiration date

Until Canceled

Insurance

Zurich American Ins Co

\$1,000,000.00

Policy no.

GLA915581107

Received by L&I

04/05/2021

Effective date

04/05/2021

Expiration date

04/05/2022

[Insurance history](#)

Savings

No savings accounts during the previous 6 year period.

Lawsuits against the bond or savings

Cause no.

19-2-02803-3SEA[Dismissed](#)

Complaint filed by

RALPHS CONCRETE PUMPING INC

Complaint against bond(s) or savings

0182016

Complaint date

02/15/2019

Complaint amount

\$1,246.06**L&I Tax debts****No L&I tax debts are recorded for this contractor license during the previous 6 year period, but some debts may be recorded by other agencies.****License Violations****No license violations during the previous 6 year period.****Certifications & Endorsements****OMWBE Certifications**

No active certifications exist for this business.

Apprentice Training AgentRegistered training agent. [Check their eligible programs and occupations.](#)**Workers' Comp**

Do you know if the business has employees? If so, verify the business is up-to-date on workers' comp premiums.

L&I Account ID

129,376-00**Account is in good standing.****Quarterly report received and is being processed.**

Doing business as

TITAN EARTHWORK LLC

Estimated workers reported

Pending current quarter filing

L&I account contact

T0 / DALE MCMASTER (360)902-5617 - Email: MCMS235@lni.wa.gov**Public Works Requirements**

Verify the contractor is eligible to perform work on public works projects.

Required Training– Effective July 1, 2019

Exempt from this requirement.

Contractor Strikes**No strikes have been issued against this contractor.****Contractors not allowed to bid****No debarments have been issued against this contractor.****Workplace Safety & Health**

Check for any past safety and health violations found on jobsites this business was responsible for.

Inspection results date

06/17/2020

No violations

Inspection no.

317959234

Location

9600 Rainier Ave S**Seattle, WA 98118**

CITY OF TUKWILA - DEPARTMENT OF PUBLIC WORKS
2021 Small Drainage Program
BID TABS

							LOW BIDDER		2nd Low Bidder			
					Total		Engineer's Estimate		Titan Earthwork LLC		Northwest Cascade, Inc.	
07/27/21												
No.	Section No.	Item	Quantity	Unit	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost		
ROADWAY												
1	1-04	Minor Changes	1	EST	\$12,000.00	\$ 12,000	\$12,000.00	\$ 12,000	\$12,000.00	\$ 12,000.00	\$ 12,000.00	
2	1-05	Roadway Surveying	1	LS	\$14,000.00	\$ 14,000	\$15,000.00	\$ 15,000	\$10,500.00	\$ 10,500.00	\$ 10,500.00	
3	1-05	Record Drawings (Minimum Bid \$1,500)	1	LS	\$1,050.00	\$ 1,050	\$1,500.00	\$ 1,500	\$1,500.00	\$ 1,500.00	\$ 1,500.00	
4	1-09	Mobilization	1	LS	\$54,500.00	\$ 54,500	\$105,000.00	\$ 105,000	\$78,500.00	\$ 78,500.00	\$ 78,500.00	
5	1-10	Project Temporary Traffic Control	1	LS	\$37,500.00	\$ 37,500	\$94,365.00	\$ 94,365	\$98,000.00	\$ 98,000.00	\$ 98,000.00	
6	1-10	Contractor Provided Uniformed Police Officer	60	HR	\$100.00	\$ 6,000	\$125.00	\$ 7,500	\$87.00	\$ 5,220.00	\$ 5,220.00	
7	2-01	Clearing and Grubbing	1	LS	\$23,000.00	\$ 23,000	\$35,000.00	\$ 35,000	\$44,000.00	\$ 44,000.00	\$ 44,000.00	
8	2-02	Removal of Structure and Obstruction	1	LS	\$11,000.00	\$ 11,000	\$25,000.00	\$ 25,000	\$38,000.00	\$ 38,000.00	\$ 38,000.00	
9	2-02	Pavement Removal Incl. Haul	80	SY	\$50.00	\$ 4,000	\$90.00	\$ 7,200	\$30.00	\$ 2,400.00	\$ 2,400.00	
10	2-03	Unsuitable Foundation Excavation Incl. Haul	15	CY	\$75.00	\$ 1,125	\$100.00	\$ 1,500	\$260.00	\$ 3,900.00	\$ 3,900.00	
11	2-09	Shoring or Extra Excavation Class B	2650	SF	\$1.50	\$ 3,975	\$5.00	\$ 13,250	\$0.50	\$ 1,325.00	\$ 1,325.00	
12	4-04	Crushed Surfacing Top Course	420	TN	\$40.00	\$ 16,800	\$90.00	\$ 37,800	\$60.00	\$ 25,200.00	\$ 25,200.00	
13	5-04	HMA Cl. 3/8" PG 58H-22	80	TN	\$160.00	\$ 12,800	\$300.00	\$ 24,000	\$475.00	\$ 38,000.00	\$ 38,000.00	
14	5-04	HMA Berm	690	LF	\$20.00	\$ 13,800	\$10.00	\$ 6,900	\$25.00	\$ 17,250.00	\$ 17,250.00	
15	7-09	Relocate Water Air and Vacuum Assembly	1	EA	\$1,500.00	\$ 1,500	\$4,000.00	\$ 4,000	\$3,650.00	\$ 3,650.00	\$ 3,650.00	
16	7-14	Adjust Hydrant Assembly	1	EA	\$1,500.00	\$ 1,500	\$3,500.00	\$ 3,500	\$2,250.00	\$ 2,250.00	\$ 2,250.00	
17	7-15	Adjust Water Service	2	EA	\$700.00	\$ 1,400	\$1,000.00	\$ 2,000	\$1,450.00	\$ 2,900.00	\$ 2,900.00	
18	8-01	Erosion Control and Water Pollution Prevention	1	LS	\$15,000.00	\$ 15,000	\$10,000.00	\$ 10,000	\$25,000.00	\$ 25,000.00	\$ 25,000.00	
19	8-04	Cement Conc. Traffic Curb and Gutter	25	LF	\$80.00	\$ 2,000	\$60.00	\$ 1,500	\$133.00	\$ 3,325.00	\$ 3,325.00	
20	8-14	Cement Conc. Sidewalk	15	SY	\$160.00	\$ 2,400	\$100.00	\$ 1,500	\$270.00	\$ 4,050.00	\$ 4,050.00	
21	8-22	Plastic Stop Line	12	LF	\$25.00	\$ 300	\$50.00	\$ 600	\$150.00	\$ 1,800.00	\$ 1,800.00	

ROADSIDE DEVELOPMENT										
22	8-02	Topsoil Type A	23	CY	\$65.00	\$ 1,495	\$100.00	\$ 2,300	\$121.00	\$ 2,783.00
23	8-02	Seeded Lawn Installation	105	SY	\$15.00	\$ 1,575	\$5.00	\$ 525	\$24.50	\$ 2,572.50
24	8-02	Water Quality Seeding	165	SY	\$15.00	\$ 2,475	\$5.00	\$ 825	\$24.50	\$ 4,042.50
25	8-02	Bark or Wood Chip Mulch	10	CY	\$55.00	\$ 550	\$100.00	\$ 1,000	\$121.00	\$ 1,210.00
26	8-02	Fine Compost	20	CY	\$65.00	\$ 1,300	\$100.00	\$ 2,000	\$121.00	\$ 2,420.00
27	8-02	PS Salix scouleriana/ Scouler's Willow; 5 Gal. Cont.	2	EA	\$100.00	\$ 200	\$60.00	\$ 120	\$60.50	\$ 121.00
28	8-02	PS Thuja plicata/ Western Redcedar; 5 Gal. Cont.	2	EA	\$100.00	\$ 200	\$150.00	\$ 300	\$60.50	\$ 121.00
29	8-02	PS Halodiscus discolor/ Oceanspray; 2 Gal. Cont.	11	EA	\$35.00	\$ 385	\$50.00	\$ 550	\$36.50	\$ 401.50
30	8-02	PS Symphoricarpos albus/ Snowberry; 2 Gal. Cont.	20	EA	\$35.00	\$ 700	\$40.00	\$ 800	\$36.50	\$ 730.00
31	8-02	PS Mahonia aquifolium/ Tall Oregon Grape; 2 Gal. Cont.	15	EA	\$35.00	\$ 525	\$40.00	\$ 600	\$36.50	\$ 547.50
32	8-02	PS Mahonia nervosa/ Low Oregon Grape; 2 Gal. Cont.	5	EA	\$35.00	\$ 175	\$60.00	\$ 300	\$36.50	\$ 182.50
33	8-02	PS Polystichum munitum/ Sword Fern; 1 Gal. Cont.	25	EA	\$25.00	\$ 625	\$40.00	\$ 1,000	\$36.50	\$ 912.50
34	8-02	PS Gaultheria shallon/ Salal; 1 Gal. Cont.	5	EA	\$25.00	\$ 125	\$40.00	\$ 200	\$36.50	\$ 182.50
35	8-02	PS Fragaria vesca/ Woodland Strawberry; 4" Pot.	25	EA	\$15.00	\$ 375	\$40.00	\$ 1,000	\$36.50	\$ 912.50
36	8-02	Property Restoration	1	EST	\$5,000.00	\$ 5,000	\$5,000.00	\$ 5,000	\$5,000.00	\$ 5,000.00
37	8-12	Chain Link Fence Type 4	50	LF	\$40.00	\$ 2,000	\$50.00	\$ 2,500	\$46.50	\$ 2,325.00
38	8-15	Hand Placed Riprap	5	TON	\$200.00	\$ 1,000	\$100.00	\$ 500	\$414.00	\$ 2,070.00
39	8-15	Quarry Spalls	4	TON	\$200.00	\$ 800	\$100.00	\$ 400	\$392.00	\$ 1,568.00
STORM DRAINAGE										
40	2-02	Remove/Abandon Existing Storm Sewer Pipe	186	LF	\$20.00	\$ 3,720	\$50.00	\$ 9,300	\$32.50	\$ 6,045
41	7-01	Yard Drain	1	EA	\$1,500.00	\$ 1,500	\$2,000.00	\$ 2,000	\$1,090.00	\$ 1,090
42	7-04	Storm Sewer Pipe 18 In. Diam.	180	LF	\$120.00	\$ 21,600	\$150.00	\$ 27,000	\$101.00	\$ 18,180
43	7-04	Storm Sewer Pipe 24 In. Diam	8	LF	\$130.00	\$ 1,040	\$200.00	\$ 1,600	\$224.00	\$ 1,792
44	7-04	Ductile Iron Storm Sewer Pipe 6 In. Diam.	6	LF	\$100.00	\$ 600	\$100.00	\$ 600	\$320.00	\$ 1,920
45	7-04	Ductile Iron Storm Sewer Pipe 8 In. Diam.	290	LF	\$105.00	\$ 30,450	\$115.00	\$ 33,350	\$92.00	\$ 26,680
46	7-04	Ductile Iron Storm Sewer Pipe 12 In. Diam.	244	LF	\$125.00	\$ 30,500	\$135.00	\$ 32,940	\$120.00	\$ 29,280
47	7-05	Concrete Inlet	4	EA	\$1,500.00	\$ 6,000	\$1,800.00	\$ 7,200	\$1,675.00	\$ 6,700
48	7-05	Debris Barrier	1	EA	\$1,500.00	\$ 1,500	\$2,000.00	\$ 2,000	\$1,185.00	\$ 1,185
49	7-05	Catch Basin Type 1	6	EA	\$2,250.00	\$ 13,500	\$2,000.00	\$ 12,000	\$1,680.00	\$ 10,080
50	7-05	Storm Manhole 48 In. Diam. Type 1	1	EA	\$6,000.00	\$ 6,000	\$10,000.00	\$ 10,000	\$4,850.00	\$ 4,850
51	7-05	Catch Basin Type 2 48 In. Diam. with Overflow Debris Cag	1	EA	\$7,500.00	\$ 7,500	\$15,000.00	\$ 15,000	\$5,825.00	\$ 5,825
52	7-05	New Pipe Connection to Existing Storm Drain Structure	5	EA	\$750.00	\$ 3,750	\$1,500.00	\$ 7,500	\$1,250.00	\$ 6,250
53	7-05	57th Ave S SDMH, Complete	1	LS	\$15,000.00	\$ 15,000	\$27,500.00	\$ 27,500	\$6,100.00	\$ 6,100
54	7-06	Pipe Repair	45	LF	\$125.00	\$ 5,625	\$50.00	\$ 2,250	\$535.00	\$ 24,075
55	7-06	Grout Pipe Repair	4	EA	\$4,000.00	\$ 16,000	\$500.00	\$ 2,000	\$3,360.00	\$ 13,440
56	7-06	Furnish and Install 12" Diam. CIPP	350	LF	\$250.00	\$ 87,500	\$100.00	\$ 35,000	\$142.00	\$ 49,700
57	7-06	Furnish and Install 24" Diam. CIPP	285	LF	\$325.00	\$ 92,625	\$130.00	\$ 37,050	\$238.00	\$ 67,830
58	7-10	Temporary Water Bypass System	1	LS	\$15,500.00	\$ 15,500	\$4,950.00	\$ 4,950	\$12,000.00	\$ 12,000
59	8-31	Protect Utility Pole	1	LS	\$4,000.00	\$ 4,000	\$4,950.00	\$ 4,950	\$27,000.00	\$ 27,000
60	8-32	Pothole Utility	11	EA	\$550.00	\$ 6,050	\$1,000.00	\$ 11,000	\$600.00	\$ 6,600
61	8-32	Resolution of Utility Conflicts	1	EST	\$14,000.00	\$ 14,000	\$14,000.00	\$ 14,000	\$14,000.00	\$ 14,000
BID Total						\$ 639,115.00		\$ 728,225.00		\$ 787,494.00



INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Services Committee**
 FROM: **Hari Ponnekanti, Public Works Director/ City Engineer**
 BY: **Ryan Larson, Senior Program Manager**
 CC: **Mayor Ekberg**
 DATE: **August 6, 2021**
 SUBJECT: **East Marginal Way S Stormwater Outfalls Project**
Project No. 91041204
Contract No. 20-118, Change Order No. 3

ISSUE

Approve a supplemental agreement for Change Order No. 3 for Contract No. 20-118 with Marshbank Construction, Inc. for added construction costs associated with two unknown utilities.

BACKGROUND

This project was awarded on October 19, 2020, and construction began on March 8, 2021. Initial work included calling for utility locates, and this process revealed a previously unknown fiber optic utility was located within the planned alignment of the new stormwater pipe. The project was immediately placed on hold until a resolution to this conflict could be resolved.

KPG began a redesign to avoid this newly identified utility and delivered revised plans to the contractor on March 12, 2021. The redesign plans moved the Modular Wetland and 12” storm pipe to the west side of the center turn lane, outside of the area of conflict with the fiber optic line. The basic concept of the design was not altered, just shifted.

Following the above referenced design change, the contractor sawcut the new location and began excavation, but then ran into an unmarked 4” steel conduit. Work was immediately stopped, and the contract was again suspended to deal with this new utility conflict. This required another redesign and an additional project delay.

KPG again redesigned this section of the project to avoid the new utility conflict and delivered revised plans to the contractor on March 29, 2021. The new plan revisions are the third and final layout of the Modular Wetland unit and 12” storm pipe. This new design moved the Modular Wetland and 12” storm pipe to the west side of this newly identified utility. On April 5, 2021, the contractor was able to resume contract work after nearly a month of delay.

DISCUSSION

The contractor incurred various additional costs associated with this delay including, saw cutting, pavement removal, traffic control, potholing, pavement repair, overhead, and changes to delivered materials. The total negotiated delay and material costs, including tax, is \$211,011.80.

Budget and Bid Summary (All amounts include sales tax)

	<u>Construction Contract</u>	<u>2020-2021 Budget</u>
Original Contract Amount	\$ 1,035,201.00	\$ 1,616,000.00
Change Order No. 1	9,700.00	
Change Order No. 2	88,066.23	
Change Order No. 3	211,011.80	
<u>Overruns</u>	<u>57,513.92</u>	
Total	\$ 1,401,492.95	

A project contingency of \$155,280.15 was established at project award. Change Order No. 1, Change Order No. 2, and overruns fell within the provided contingency. An additional \$211,011.80 is required to finish construction for the East Marginal Way South Outfalls Project. The overall project budget is sufficient to fund the additional change order.

The project received \$1,106,250 in design and construction funding from the Department of Ecology Municipal Stormwater Capacity grant and \$100,000 in construction funding from the King County Opportunity Fund. The remaining project will be funded through storm water utility revenue.

RECOMMENDATION

Council is being asked to approve a supplemental agreement for Change Order No. 3 to contract No. 20-118 with Marshbank Construction, Inc. in the amount of \$211,011.80 and consider this item on the Consent Agenda at the August 16, 2021, Regular Meeting.

ATTACHMENTS: 2021 CIP, page 84
Change Order No. 3

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2021 to 2026

PROJECT: East Marginal Wy S Stormwater Outfalls

Project No. 91041204

DESCRIPTION: Establish legal drainage connections from East Marginal Way South to the Duwamish River.

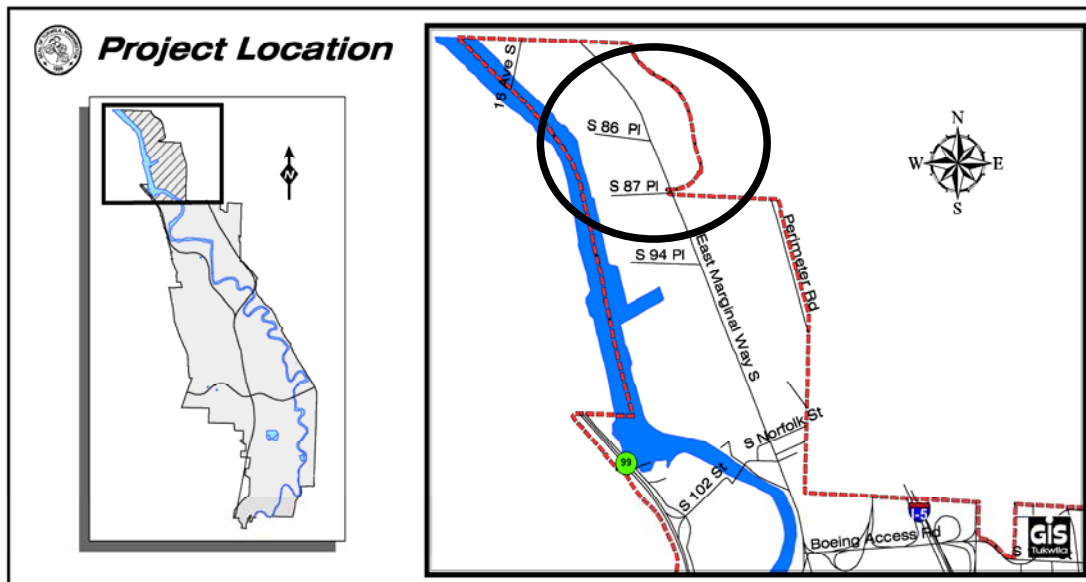
JUSTIFICATION: Drainage from E Marginal Wy S is discharged through outfalls owned and operated by the Boeing Co., Jorgensen Forge, and two King County Airport storm systems without easements.

STATUS: Design completed and approved by the Department of Ecology. Construction is anticipated to begin in September 2020.

MAINT. IMPACT: Clarifies maintenance responsibility and will ensure reliability of system.

COMMENT: City adopted the Z Line in 2015. Construction includes pipe lining, installation of water quality and connecting the Jorgenson drainage area to Boeing's Z Line. DOE design and construction grant awarded in 2018 for \$1.1m.

FINANCIAL (in \$000's)	Through Estimated									
	2019	2020	2021	2022	2023	2024	2025	2026	BEYOND	TOTAL
EXPENSES										
Design	265	45								310
Monitoring	31	11	11							53
Const. Mgmt.		50	265							315
Construction		300	1,000							1,300
TOTAL EXPENSES	296	406	1,276	0	0	0	0	0	0	1,978
FUND SOURCES										
Awarded Grant RCO	164	100	842							1,106
KCFCD		50								50
Proposed Grant										0
Mitigation Expected										0
Utility Revenue	132	256	434	0	0	0	0	0	0	822
TOTAL SOURCES	296	406	1,276	0	0	0	0	0	0	1,978



Change Order Checklist

- Change Order
- WSDOT LAG Change Order Checklist
- Originating Documents (Verbal Approval, i.e. CCD, email, memo to file)
- Independent Cost Estimate (ICE)
- Contractor's Proposal/Cost Estimate (RFP – Request for Proposal)
- Time Impact Analysis (TIA)
- Back Up

Date Sent to Contractor: _____
Date Signed / Acknowledged by Contractor: _____
Date Approved by Agency: _____
Date Fully Executed Copy Sent to Contractor: _____

**CITY OF TUKWILA
CHANGE ORDER #3**



CITY OF TUKWILA CONTRACT CHANGE ORDER NO. 003

DATE: 5-27-21

BUDGET NO.: 412.98.594.382.65.00

PROJECT NO.: 91041204

CONTRACT NO.: 20-118

PROJECT NAME: East Marginal Way Outfall Stormwater Retrofit Project

Dave Marshbank, President

TO: PO Box 97

Lake Stevens, WA 98258

You are hereby directed to make the herein described changes to the plans and specifications or do the following described work not included in the plans and specifications on this contract:

NOTE: This change order is not effective until approved by the "Owner" and a notice to proceed is issued.

Conditions:

- A. The following change, and work affected thereby, are subject to all contract stipulations and covenants;
- B. The rights of the "Owner" are not prejudiced;
- C. All claims against the "Owner" which are incidental to or as a consequence of this change are waived; and
- D. The Contractor & City agree that all Field Overhead and Home Office Overhead expenses have been included in this change order

CHANGE: See Attached Exhibit "A"

We the undersigned Contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above and below.

ACCEPTED: Date 8/2/21 Contractor MARSHBANK

By [Signature] Title PM

Original Contract (without tax)	\$ 1,035,201.00	APPROVED BY THE CITY OF TUKWILA
Previous Change Order	\$ 97,766.23	Date _____
This Change Order (without tax)	\$ 211,011.80	By _____
REV. CONTRACT AMOUNT	\$ 1,343,979.03	Mayor
Original Contract Time:		City Engineer _____
Additional Contract Time for this Change Order:		
Updated Contract Time:		

ORIGINAL: City Clerk (1 of 2)
Contractor (2 of 2)
PW Project Finance File

cc: Finance Department (w/encumbrance)
Project Management File

Change Order 3

Project Number: **91041204**
 Project Owner: **CITY OF TUKWILA**
 Project Name: **East Marginal Way Outfall Stormwater Retrofit Project**

Change Order Number: **003**

Prime Contractor: **Marshbank Construction, Inc.** Subcontractor: **N/A**

- Ordered by the Engineer under the terms of section 1-04.4 of the Standard Specification
- Change proposed by Contractor

Surety Consent (if required) _____ Attorney in Fact _____ Date	
--	--

Original Contract Amount	\$1,035,201.00
Current Contract Amount	\$1,132,967.23
Estimated Net Change this Order	\$211,011.80
Estimated Contract Total After Change	\$1,343,979.03
Original Contract Duration	60 Working Days
Current Contract Duration	60 Working Days
Additional Days This Order	0 Working Days
Proposed Contract Duration	60 Working Days

<input checked="" type="checkbox"/> Approval Recommended <input type="checkbox"/> Approved <div style="text-align: center; margin-top: 10px;"> <i>J. Matt North</i> 07/30/2021 </div>	<input checked="" type="checkbox"/> Approval Recommended <input type="checkbox"/> Approved <div style="text-align: center; margin-top: 10px;"> </div>
Project Engineer - Matt North, KPG	Contractor - Rob Gammell, Marshbank Construction, Inc.
Date	Date <i>8/21/21</i>
<input checked="" type="checkbox"/> Approval Recommended <input type="checkbox"/> Approved	<input type="checkbox"/> Other Approval When Required
Project Owner - Ryan Larson, CITY OF TUKWILA	Signature _____ Date _____
Date	Representing _____

You are ordered to perform the following described work upon receipt of an approved copy of this change order:

Background:

This design change request was developed in relation to resolution of utility conflicts relating to (2) separate instances of finding during construction activities, unplanned and unlocated Zayo fiber lines in conflict with the contract plans. Serial letter #005 was received from the contractor indicating differing site conditions for the work planned and scheduled for installing the 4" Forcemain storm system that connects to the Modular Wetland System in the center of the East Marginal Way roadway that allows the City of Tukwila for channelizing city storm waters to existing storm conveyance thru the Boeing property, ultimately releasing to the Duwamish River.

Initial construction activities began 3-8-21 with locates finding the first of the two Zayo Line conflicts.

A redesign was needed by KPG design and issued in FWD #001 to alter the storm system from the center of the roadway east away from the conflicting, existing Zayo line, found with locate marks by the contractors call to the locate service 811. The contractor attempted to resume work on 3/16/21 upon the KPG issuing FWD #001 re-design based off pothole and located mark data. But upon trying to install the storm run from the existing CB #34 to the new MH #25 location, Marshbank found a unlocated, unmarked, unidentified utility line that was in direct conflict with setting MH#25. The work was again stopped on 3/17/21, and a re-design was once again needed for the contractor to proceed with any storm installations.

Additional potholing was needed to determine the ability to fit the Modular Wetland System in the center of the East Marginal Way roadway. Marshbank potholed both newly found conflicting lines on 3/26/21. The pothole information allowed KPG Design to issue a revised version of the as FWD #001.1. The re-design allowed the contractor a confirmed area for the centerline storm installations between the existing MH#34 and the Modular Wetland Structure #100.

RFI #014 was issued regarding the discovery of an assumed communication duct bank, Zayo Fiber line, running north and south resulted in the (2) different utility line conflicts. Therefore, Field Work Directive (FWD), 1 and FWD #001.1, were issued resulting in the storm and forcemain redesign.

Marshbank was unable to proceed with FWD #001.1 work until 4/5/21.

Reason/Justification for Change:

KPG the COT and Marshbank, determined that design changes were due to the multiple utility conflicts including the unlocated Zayo fiber line being in direct conflict with the storm and forcemain between the existing MH#34 and the Modular Wetland Structure #100. No contract days were counted on the WSWD's for time under suspension. No Added days are included to this change order.

The received serial letters 5, and subsequent supporting serial letters 7, 7.1, & 8, Included within this Change Order as additional backup, represent the details to the costs. Additionally, the removal of material occurred in excess of the original bid quantities for bid items #7 "Removing Asphalt Concrete Pavement" at 534.73 SY & bid item #8 "Removal of Concrete Pavement" at 170.73 SY, as the design had change twice from the original plan set. These added removals are being added as adjustments to compensate the reworked areas that were tracked and paid under the existing bid items as over-runs to the existing items. With the design changes, the alignment changed to the storm, but sawcutting already occurred. The sawcuts of the prior design alligments needed to be filled and repaired. The costs to do so are in the attached invoice from Puget Paving Quote dated 05-18-2021 in the amount of \$11,840 .

Marshbank installed the storm and forcemain and all related restoration work in accordance to the FWD #001 to #001.1 which edits plan pages 7 & 8. The sum to the contract changes add up to \$211,011.80 for the storm changes, and added removal areas, previously tracked to Bid items #4 as Utility Conflicts, and Bid item #7 & #8.

No contract days were counted on the WSWD's for time under suspension. No Added days are included to this change order.

Description of Change:

Contract Items Added/Deducted:

- Increase Bid Item 4 - Minor Change: Add 1 FA
- Increase Bid Item 4 - Resolution of Utility Conflicts: Add 1 FA
- Increase Bid Item 4 - Sawcut Seal of prior Alignments: Add 1 FA
- Increase Bid Item 7 - Removing Asphalt Concrete Pavement: Add 534.73 SY
- Increase Bid Item 8 - Removal of Concrete Pavement: Add 170.73 SY

Zero (0) additional working days are added to the contract time.

Change Order 3

Measurement:

Measurement for New Item #C03-01 will be per .

Payment:

Payment for all work associated with the tasks described above shall be made under new items at unit prices as detailed in the summary of quantities below, and will be full compensation for all costs associated with labor, equipment, incidental material, haul, tools, incidentals, subcontractor and service provider mark-up, overhead and profit required to furnish, install, and successfully complete all work for the above-described tasks

SUMMARY OF QUANTITIES

Existing Bid Item Adjustments					
Item No.	Description	Unit	Qty.	Unit Price	Amount
4	Minor Change	FA	1	\$ 5,140.00	\$ 5,140.00
4	Resolution of Utility Conflicts	FA	1	\$ 187,682.66	\$ 187,682.66
4	Sawcut Seal of prior Alignments	FA	1	\$ 11,840.00	\$ 11,840.00
7	Removing Asphalt Concrete Pavement	SY	534.73	\$ 9.00	\$ 4,812.57
8	Removal of Concrete Pavement	SY	170.73	\$ 9.00	\$ 1,536.57
Subtotal Existing Items:					\$211,011.80
Change Order Items					
Item No.	Description	Unit	Qty.	Unit Price	Amount
	N/A				-
Subtotal Change Order Items:					\$0.00
SUBTOTAL CHANGE ORDER AMOUNT:					\$211,011.80
WSST (%):					\$0.00
TOTAL CHANGE ORDER AMOUNT:					\$211,011.80

ORIGINATING DOCUMENTS

MARSHBANK

CONSTRUCTION

REQUEST FOR INFORMATION #014

TO: CITY OF TUKWILA

DATE: MARCH 8, 2021

REFERENCE: Communication Line Facility Locate
PROJECT: E. Marginal Way Outfall Stormwater Retrofit Project
REQUESTED BY: Marshbank Construction

QUESTION:

Based on the 811 locates marks onsite, it appears that a communication duct bank is present between STA 2+00 to STA 16+00 running south to north. Washington Dig Law, RCW 19.122.020 (23), "Reasonable accuracy" means location within twenty-four inches of the outside dimensions of both sides of an underground facility. The onsite marks as measured appear to be 36", with respect to RCW 19.122.020 (23), The facility is determined to be up to 84" O.D for the in this area. Marshbank will be removing hardscapes per the lookahead and baseline schedule beginning Tuesday 3/9/2021. Please advise how Marshbank is to proceed.

RESPONSE:

"Per the discussion during the 3/9/21 progress meeting, KPG Design and inspection staff located five (5) additional pothole locations after the meeting.

Direction to proceed with potholing has been provided to Marshbank for the added Zayo duct bank potholes. Please provide pothole data as it becomes available to facilitate design efforts.

As indicated, KPG will track the additional potholes T&M, will continue to work with Marshbank to determine the full impact of the differing site conditions discovered by the 811 locates performed on 3/8/21, and come to a fair and equitable agreement.

Sawcutting for the storm work will be on hold until further notice."

J. Matt North 03/10/2021

MARSHBANK

CONSTRUCTION

REQUEST FOR INFORMATION #017.1

TO: CITY OF TUKWILA

DATE: MARCH 12, 2021

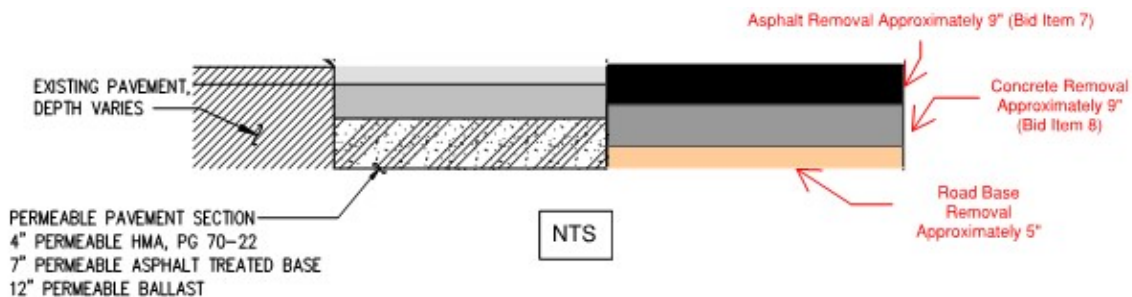
REFERENCE: Road Base Excavation for Permeable Pavement Area
 PROJECT: E. Marginal Way Outfall Stormwater Retrofit Project
 REQUESTED BY: Marshbank Construction

QUESTION:

The excavation for the approximately 5” of road base excavation required for the permeable pavement section (see below) is not included as an incidental for the permeable ballast per special provisions division 10 measurements and payments:

“Measurement and payment for “Permeable Ballast” shall be per ton.

Items to be included in the bid price, but shall not necessarily be limited to: all necessary materials, labor, and equipment, including staking, constructing form work, finishing, removal of form work, and complete installation of cement conc. sidewalk as shown on the plans or directed by the City.”



Marshbank is not in agreement with RFI response 017 that this road base excavation is captured in bid item 18 as there is no contract language to support this. Marshbank Construction recommends the creation of a road-excavation bid item; please advise.

RESPONDED BY: _____

DATE: _____

Payment to be incorporated in Minor Change Bid Item #1 for the amount requested in email from Marshbank received 4-30-21. CY price is in line with industry standard. Processing will be 129cy paid at \$42/cy = lump sum price of \$5410.00.

J. Matt North 05/04/2021

MARSHBANK

CONSTRUCTION

REQUEST FOR INFORMATION #021

TO: CITY OF TUKWILA

DATE: MARCH 17, 2021

REFERENCE: 4" Steel conduit in conflict with CB 25
PROJECT: E. Marginal Way Outfall Stormwater Retrofit Project
REQUESTED BY: Marshbank Construction

QUESTION:

There is a 4" steel conduit 2.75' below top of asphalt in conflict with the revised instillation plans for CB25 (see attached photo) please provide direction for the instillation of CB 25.

RESPONSE:

See FWD# 001.1 for new storm pipe alignments. CB #25 has been eliminated.

J. Matt North 03/31/2021

RESPONDED BY: _____

DATE: _____

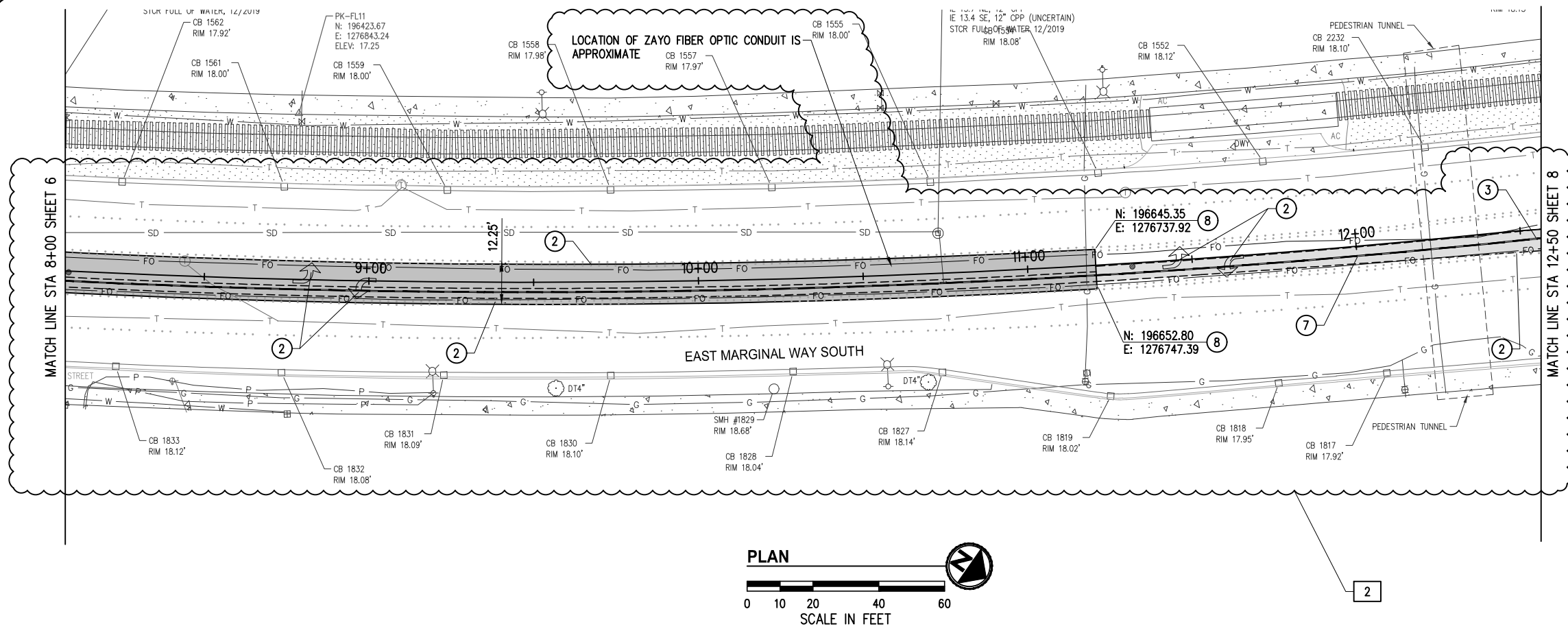


Center of structure 25

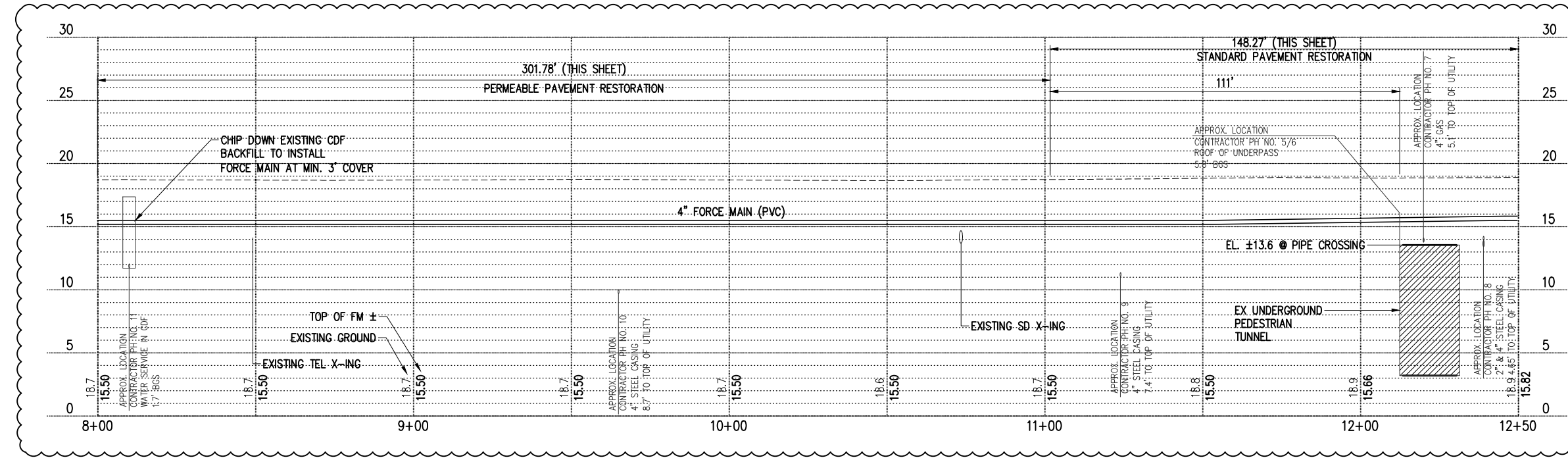
4" Steel Conduit

Edge of structure 25

Shoring required for structure 25

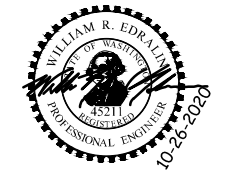


- GENERAL NOTES**
1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
 2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
 3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUKWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
 4. CONFIRM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POTHOLE THE EXACT LOCATION.
 6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN), PROVIDE AN OD X OD X 2.5" POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE OD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
 7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
 8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
 9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
 10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



- CONSTRUCTION NOTES**
2. REPLACE EXISTING ROADWAY MARKINGS.
 3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
 7. INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 8. REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.

PIPE STATION PROFILE



PUBLIC WORKS DEPT.
 *ENGINEERING*STREETS*WATER*SEWER*BUILDING*

designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

KPG
 3131 Elliott Ave
 Suite 400
 Seattle, WA 98121
 (206) 286-1640

2502 Jefferson Ave
 Tacoma, WA 98402
 (253) 627-0720
 www.kpg.com

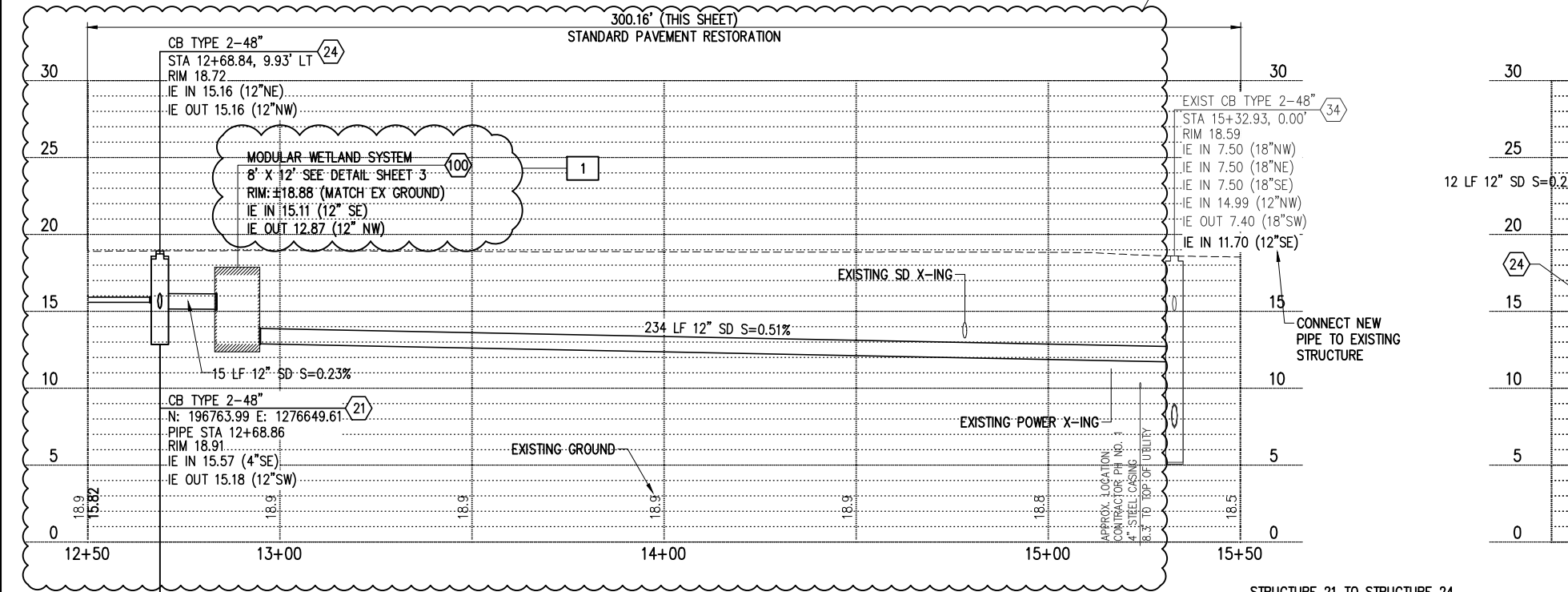
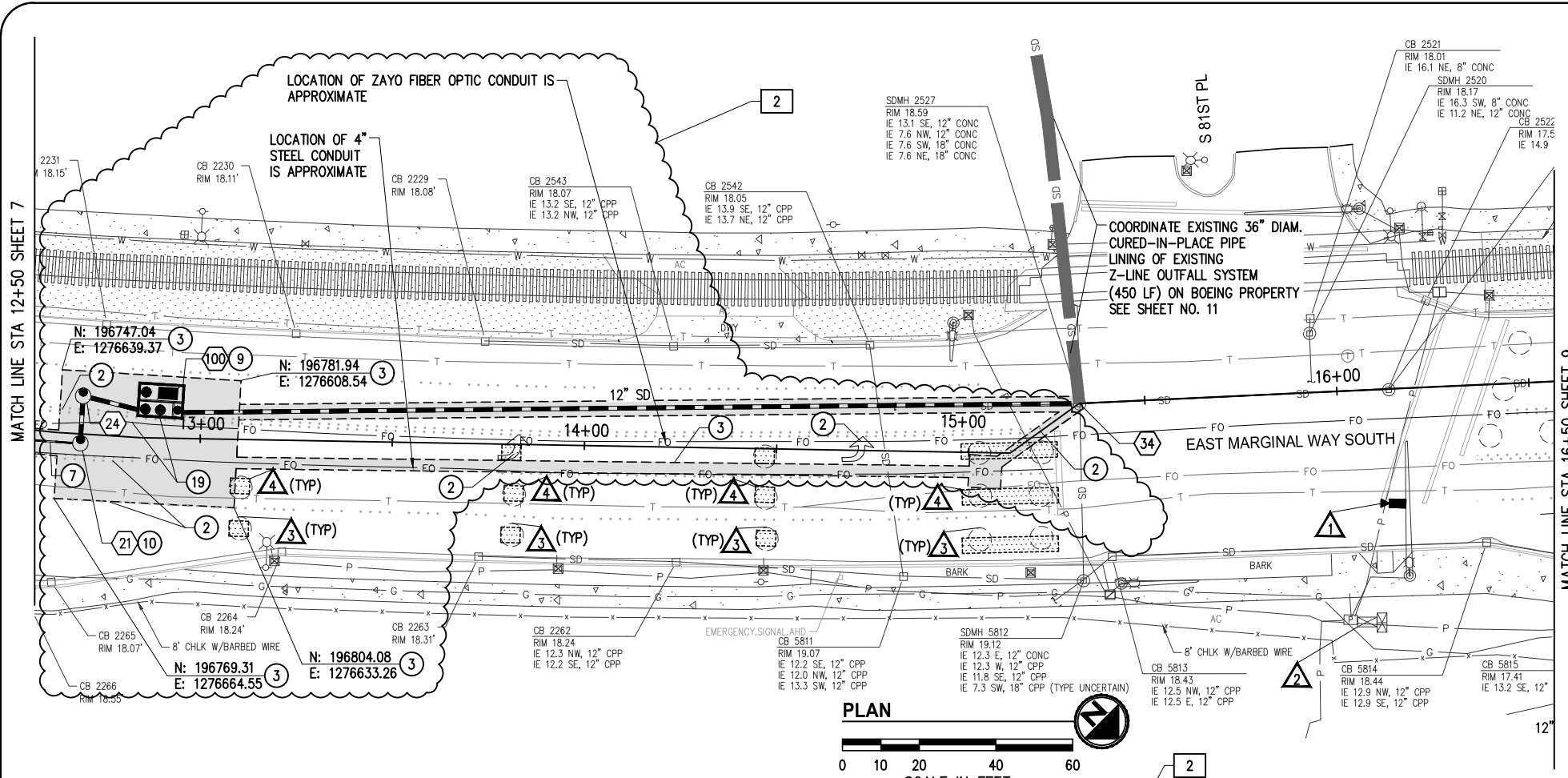
CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
 STORMWATER RETROFIT PROJECT
 DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01

file no
 7
 16
 scale AS SHOWN
 06/20

K:\PROJECTS\TUKWILA\14015-EMW Outfall\DESIGN\Drawings\Contract\14015STRM01_031721.dwg 3/26/2021 3:45 PM



GENERAL NOTES

FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.

- 10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

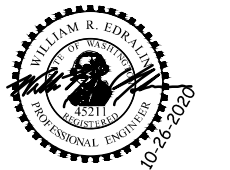
- 2. REPLACE EXISTING ROADWAY MARKINGS.
- 3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
- 7. INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- 9. INSTALL WATER QUALITY TREATMENT VAULT, SEE DETAIL SHEET 3.
- 10. INSTALL DROP CONNECTION INSIDE STRUCTURE WITH CHANNEL BOTTOM. SEE DETAIL SHEET 2 FOR DISCHARGE PIPING.
- 19. POTHOLES REVEALED SIGNIFICANT ALIGNMENT SHIFT IN ZAYO CONDUIT IN THIS AREA. SET MODULAR WETLAND AS NEAR AS PRACTICAL TO ZAYO DUCT BASED ON ACTUAL FIELD LOCATION.

SIGNAL GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM KIRKLAND AT (206) 730-8476 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
- 2. CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
- 3. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATION AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 10 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. ALL TWISTED PAIR LOOP WIRE SHALL BE DISCONNECTED AT THE JUNCTION BOX SPLICE POINT PRIOR TO SAWCUT FOR PAVEMENT REMOVAL. ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
- 4. THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- 1. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM. MOUNT PER MANUFACTURER'S SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE). FURNISH AND INSTALL VIDEO CABLING TO CONTROLLER (ROUTE OF CABLING SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- 2. LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET. EDGE 2 CARD AND LCD MONITOR SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY THE CITY. JOURNEY LEVEL WORK IN THE CABINET, INCLUDING FIELD WIRING TERMINATION IS ALLOWED IN THE PRESENCE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- 3. EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RUN 2CS WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES AND DISCONNECT LOOP SPLICES IN THE JUNCTION BOX PRIOR TO ANY SAW CUTTING OR GRINDING.
- 4. VIRTUAL DETECTION ZONE SHOWN FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



PUBLIC WORKS DEPT.
*ENGINEERING*STREETS*WATER*SEWER*BUILDING*

designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

KPG
3131 Elliott Ave
Suite 400
Seattle, WA 98121
(206) 286-1640

2502 Jefferson Ave
Tacoma, WA 98402
(253) 627-0720
www.kpg.com

CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01
1	12/20	RFI NO. 004

8
16
file no
scale AS SHOWN
08 06/20

CITY OF TUKWILA

**CONTRACTOR'S PROPOSAL /
COST ESTIMATE**

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507

March 17, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 7.1

Mr. North,

Marshbank Construction Inc. (Marshbank) is providing the following Change Order Proposal for your consideration. This proposal is associated with the revised design change (EMWO Design Issue) received via email from KPG on 3/11/2021.

Design Change EMWO-Proposal Includes:

- Removal and reinstallation of survey monument adjacent to Structure #19.
 - Crew dependent task after restoration activities, includes coring sub, purchase of monument related construction materials, crew, trucking, minimum dump fees.
- ~~Large scale pothole per note #19 "SET AS NEAR AS PRACTICAL"~~
 - ~~This is priced to utilize multiple vector trucks for speed and efficiency for verifying structure #100 can fit as design note indicates. Includes sawing activity (Pothole Location), vector, labor, dump fee for exploratory work. Assumed (2) days with no design issues.~~
- Alignment shift into other wise unaffected striping removals and replacement which is a lump sum item in the proposal based on the original proposal price.
 - Includes quantity increase price dictated by our striping subcontractor, preliminary layout by Marshbank which is excluded by the striping subcontractor.
- Survey subcontractor responsible for paperwork onsite time collecting datum information, revisit after install monument.
 - All DNR related paperwork, data collecting, and setting final monument coordinates.
- Delta of removal of hardscapes not quantified in original per unit bid item, truck time, labor, dump fees.
 - Includes labor, equipment, hauling, dump, and saw-cutting (perimeter)
- Unaccounted compensable tracking efforts, coordination, multiple rescheduling, resequencing, review office time, and schedule extension as a result of this change.
 - (4) Added working days needed to facilitate these changes.

Total above with Markup = \$27,899.72.

Bid Item #2 ESC (Lump Sum Item) - \$1000 (Daily Lump Sum rate multiplied by 4)

Bid Item #5 PTTC (Lump Sum Item) -\$5000 (Daily Lump Sum rate multiplied by 4)

Total Affected LS items - \$6,000

It is understood that KPG/Tukwila are electing to use bid item #4 "resolution of utility conflicts" to track and reimburse under the language of 1-09.6 "Force Account" which will "reimburse the Contractor for all costs associated with the Work, including costs of labor, small tools, supplies, equipment, specialized services, materials, applicable taxes and overhead and to include a profit commensurate with those costs." (WSDOT SS 1-09.6) Marshbank will leave the management costs in this pricing related as we did not get an opportunity to price these affected days of overhead and information gathering for

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

KPG in this activity and consider this “costs for unique force account Work that is different from typical Work and which could not have been anticipated at time of Bid.” (WSDOT SS 1-09.6, 1-131)

Revised amount for lump sum change is **\$27,899.72**. If the lump sum items will be paid via the same change order the total will be **\$33,899.72**. This price is assuming bid item #4 compensates utility potholing efforts portal to portal and affected staff including tracking efforts of breaking out of sequence for potholing the hardscapes.

Below is a list of assumptions

- Marshbank has approval to continually take the three middle lanes day and night as this work has pushed edges and cuts towards to outside of lane lines. If permissions are revoked for any reason, current traffic control pricing will no longer be valid. Repricing and any stoppage as a result of this could become costly.
- As the hatches and lids have moved, any alignment or wheel path issues is accepted and City of Tukwila has ownership of the design.
- Marshbank makes no warranty that the note “SET MODULAR WETLAND AS NEAR AS PRACTICAL” to field fit works with current design changes and any issue arising from structure #100 will be tracked daily including any work stoppages as well as City of Tukwila accepts risk of pipe alignment/angles with this note.
- Encountered utility sand encroaching as a result of proximity of Zayo comm line will be tracked via force account and any loss production.
- Encountered sand undermining adjacent roadway and additional “T-Cut” or restoration will be directed by KPG/Tukwila and tracked via force account.
- Marshbank is not liable for any design that increased the max tolerance of allowed deflection for the approved piping.
- Any supporting of the comm line will be tracked via force account.

Marshbank requests a change order be written in the amount of **\$33,899.72**. Marshbank requires an additional (4) working days to complete this change. This pricing does not include the loss production starting on Tuesday 3/9/21 with the delay work correspondence received by KPG.

As KPG has requests a narrative for their redesign and how it relates to the added costs. It is our understanding that the striping costs may be the only question at this time for more information. Please review highlighted original bid set of plans showing affected striping in yellow followed by the revised plan illustrating the shift in alignment added quantities and thus time for installation, agreement, and authorization for restriping. Also attached is the updated quote received from Apply-A-Line and note their exclusions including survey/layout which was captured in our pricing above.

Should you have any questions regarding this serial letter please contact me at (425) 209-8225

Regards,



Rob Gammell
Marshbank Construction Inc.

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

Marshbank Construction, Inc.
3304 Old Hartford Road
Lake Stevens, WA 98258-0097

PROJECT: EMWO
DATE:
ITEM:

PCO #

DESCRIPTION	QUAN	UNIT	LAB HRS	LABOR UNIT	MATR'L. UNIT	EQUIP. UNIT	Services / Unit Price	SUB/SUPLR. UNIT	SERVICES	SUB/SUPLR.	LABOR S.T.	MATR'L. S.T.	EQUIP. S.T.	TOTAL
3/19/2021														
REPLACING MON INTERNAL	1.00	LS	8	\$601.00	\$385.00	\$295.00		\$500.00	\$0.00	\$500.00	\$601.00	\$385.00	\$295.00	\$1,781.00
POTHOLE MOD STRUCTURE		LS							\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ADDITNL STRIPING LAYOUT	1.00	LS	8	\$493.00	\$83.00				\$0.00	\$0.00	\$493.00	\$83.00	\$0.00	\$576.00
REPLACE CHANNELIZATION	1.00	LS							\$2,600.00	\$0.00	\$2,600.00	\$0.00	\$0.00	\$2,600.00
SURVEY/DNR CHARGES	1.00	LS							\$2,500.00	\$0.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00
MOD STRUCTURE AREA HARDSCAPE	1.00	LS	40	\$3,045.00	\$2,180.00	\$1,303.00		\$1,200.00	\$0.00	\$1,200.00	\$3,045.00	\$2,180.00	\$1,303.00	\$7,728.00
ADDITIONAL OFFICE OVERHEAD	1.00	LS	100	\$5,437.00		\$2,150.00			\$0.00	\$0.00	\$5,437.00	\$0.00	\$2,150.00	\$7,587.00
									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
									\$0.00	\$6,800.00	\$9,576.00	\$2,648.00	\$3,748.00	\$22,772.00
TOTAL DIRECT COST													\$22,772.00	
LABOR MARKUP													31.00%	\$2,968.56
MAT. MARKUP													21.00%	\$556.08
EQUIP. MARKUP													21.00%	\$787.08
SUB. MARKUP													12.00%	\$816.00
SERVICES MARKUP													21.00%	\$0.00
SUB TOTAL														\$27,899.72
GRAND TOTAL														\$27,899.72

Notes:

LS		4	\$250.00	1000
LS		4	\$1,250.00	5000

\$33,899.72

Cost for Item 450

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 450 CLIENT# = 45										
Description = PCO--DESIGN CHANGE 3-11-21 REVISED Unit = LS Takeoff Quan: 1.000 Engr Quan: 1.000										
20462 REPLACING MONUMENT AND MATERIALS-TAS Quan: 1.00 LS Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
<u>PIADJ</u>	Adjust to grade crew		4.00 CH	Prod:	4.0000 CH	Lab Pcs:	2.00	Eqp Pcs:		3.00
2SA008	Monument@110%	1.00	1.00 EA	350.000		385				385
4SAW	Sawing sub	1.00	1.00 EA	500.000					500	500
8BA416B	Backhoe-420 - 3017	1.00	4.00 HR	40.140				161		161
8CO160	Air Compressor 160 cfm	1.00	4.00 HR	16.200				65		65
8TRFRMN	Foremans Truck w/tools	1.00	4.00 HR	17.520				70		70
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249					249
OPF	Operator-(Foreman)	1.00	4.00 MH	54.520	352					352
\$1,781.69	8.0000 MH/LS		8.00 MH	[381.16]	601	385		295	500	1,782
21004 ADDITIONAL LAYOUT FOR STRIPING PREP Quan: 1.00 DAY Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
<u>EAEX02</u>	200 Exc, Grade Chkr		4.00 CH	Prod:	0.5000 S	Lab Pcs:	2.00	Eqp Pcs:		0.00
3GY76	Small Tools@110%	1.00	1.00 LS	75.000		83				83
LABGEN	Laborer-(Group 3)	1.00	4.00 MH	39.810	244					244
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249					249
\$575.65	8.0000 MH/DAY		8.00 MH	[322.32]	493		83			576
63501 REPLACE CHANNELIZATION & TRAFFIC LOOP Quan: 1.00 LS Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
4STP	Striping sub	1.00	1.00 LS	2,600.000					2,600	2,600
11300 SURVEY CHARGES DNR MONUMENT Quan: 1.00 LS Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
4SURVY	Survey sub	1.00	1.00 LS	2,500.000					2,500	2,500
21761 MOD STRUCTURE AREA HARDSCAPE REMOVA Quan: 80.00 CY Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
940 SQFT ADDED										
<u>PI2000</u>	Pipe Crew <12", <8' Deep		8.00 CH	Prod:	10.0000 UH	Lab Pcs:	5.00	Eqp Pcs:		3.00
3HAUL	Hauling Sub@110%	1.00	8.00 HR	175.000		1,540				1,540
4SAW	Sawing sub	1.00	60.00 LF	20.000					1,200	1,200
8BA416B	Backhoe-420 - 3017	1.00	8.00 HR	40.140				321		321
8EX200	Excavator-EX228 - 1022	1.00	8.00 HR	105.230				842		842
8TRFRMN	Foremans Truck w/tools	1.00	8.00 HR	17.520				140		140
9ASPHALT	Asphalt Dump Fees	1.00	40.00 CY	8.000			320			320
9CONCRETE	Concrete Dump Fees	1.00	40.00 CY	8.000			320			320
LABPL	PipeLayer-Gr Checker (Gro	2.00	16.00 MH	40.770	995					995
OP2	Operator-(Group 1)	2.00	16.00 MH	51.020	1,344					1,344
OPF	Operator-(Foreman)	1.00	8.00 MH	54.520	705					705
\$7,727.68	0.5000 MH/CY		40.00 MH	[23.81]	3,045		2,180	1,303	1,200	7,728
10001 ADDITIONAL MANAGEMENT-TRACKING CHAN Quan: 1.00 LS Hrs/Shft: 8.00 Cal: 508 WC: NONE										
**Unreviewed										
<u>SUP01</u>	Superintendent		32.00 CH	Prod:	4.0000 S	Lab Pcs:	2.50	Eqp Pcs:		5.00
8GE040	Gen Set 40 KW	1.00	32.00 HR	14.000				448		448
8OF	****OFFICE TRAILERS**	1.00	32.00 HR	5.000				160		160
8TRPU	Pick up	2.00	64.00 HR	15.330				981		981
8TRSUPT	Truck-Supt.-PM-Est.(No	1.00	32.00 HR	17.520				561		561
SUG	Superintendent-(General)	0.50	16.00 MH	66.520	1,607					1,607
SUPENG	Project Engineer	1.00	32.00 MH	37.000	1,647					1,647
SUPM	Project Manager	1.00	32.00 MH	50.500	2,184					2,184
\$7,587.11	80.0000 MH/LS		80.00 MH	[3864.32]	5,437		2,150			7,587

=====> Item Totals: 450 - PCO--DESIGN CHANGE 3-11-21 REVISED

Cost for Item 450

Activity Resource	Desc	Quantity Pcs	Unit Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub- Contract	Total	
<hr/>											
BID ITEM	=	450	CLIENT# =	45							
Description =	PCO--DESIGN CHANGE 3-11-21 REVISED			Unit =	LS	Takeoff Quan:	1.000	Engr Quan:	1.000		
\$22,772.13	136.0000	MH/LS	136.00	MH	[6472.6]	9,576	385	2,263	3,748	6,800	22,772
22,772.130		1 LS				9,576.31	385.00	2,262.50	3,748.32	6,800.00	22,772.13
<hr/>											
\$22,772.13	*** Report Totals ***		136.00	MH		9,576	385	2,263	3,748	6,800	22,772

Rob Gammell

To: Matt North
Cc: Kenton Wilde; Alexa Henry; Ed Wagner; Ernie Hinds; Jacob Williams; Jeff Heglund; Patrick; Ryan Larson; Chris Rammage; Ray Edralin; Daniel Clark; Nelson Davis; Kelly Clark
Subject: RE: EMWO: Design Issue - Forward Pricing - Review Comments

Rob Gammell

Marshbank Construction, Inc.

P.O. Box 97
3304 Old Hartford Road
Lake Stevens, WA 98258-0097
(425) 209-8225 Cell
(425) 377-9708 Office
(425) 377-0709 Fax

From: Matt North <matt@kpg.com>
Sent: Monday, March 15, 2021 6:18 PM
To: Rob Gammell <rob@marshbankconst.com>
Cc: Kenton Wilde <Kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>
Subject: RE: EMWO: Design Issue - Forward Pricing - Review Comments

Hello Rob,

Thank you for your detailed design change forward pricing, as in response to the issued FWD #001.

As discussed on the phone on Friday, KPG had request that Marshbank add a narrative to the pricing received. The narrative received will help to jointly explain to the City, how & what has changed to the existing bid items per the original contract, to aid in the explanation of Marshbank's forward pricing in the amount of \$53,937, to the City.

Noted in your forward pricing letter, the pricing also includes the concerns to the sand in the Zayo duct line to continue to be problematic, and will need to be also tracked as force account, above this pricing. As we have discussed, the need to somewhat "field fit" the setting of structure #100, the field fit will allow the project team to maintain adequate distance for the sand, allowing for it to stay stable. As discussed regarding the re-design, the sawcut limits and the paving removal areas have been maximized to allow for sufficient space to do so.

It is understood that a couple more potholes to determine this offset distance, would likely benefit all parties involved, in hopes to allow for your efficient construction production rates. With this said, Marshbank does have authorization to pothole "the modular structure verification (multiple pothole trucks)", as requested in your email below. However this is to be tracked as force account under bid item #4, "resolution of utility conflicts".

KPG elects to utilize the existing bid item #4 "resolution of utility conflicts", no objections from Marshbank. This will be full

The timeline to acceptance in this received forward pricing, will be based on a KPG independent pricing analysis. I ask that Marshbank helps to clearly identifying added cost to the contract value that are not already included in the original bid prices, for which have been detailed out in Division 10 of the contract. Marshbank has done this by including your "Heavy Job" pricing pages as backup, showing expected crew & equipment time and any needed materials.

Since the materials and products and method of installations have not changed significantly, due to the re-design primarily just shifting the alignment of the storm and forcemain to the east a few feet; We will need to understand clearly how this add is justifiable to the City, for ultimately getting it accepted by the City.

Once we can explain completely any perceived added costs to the contract, we can move it forward to the notion of a lump sum fee to the force account bid items as described in the measurement and payment section of the FWD. A change order likely will not be issued, since the FWD #1 had stated the use of bid items #1 and/or bid item #4 to be the method of processing the added costs associated to the issued design changes. We are looking to proceed with the work in joint understanding of the measurement and payment to the items listed below.

In initial response to the presented items included in your forward pricing of \$53,937, the bulleted list included, with our KPG's comments and/or concerns in each lower bullet:

- Replacement of monument #1403
 - Forward pricing looks acceptable \$2500 for Survey to Register Monument, and \$1781 for Marshbank related crew work.
 - No further information required as our interpretation.
- The use of vector truck potholing at 2 days
 - City preference to paid on receipt of invoice per BI#4 as T&M once completed, 40hrs of vector time and dump is within the estimate.
 - Marshbank has removed the forward price on Serial Letter 7.1 and noted assumptions to be captured in these costs.
- Added striping (LS Bid item)
 - Please Provide updated quote on LS Material Installation by the subcontractor. The anticipated limits and estimated added quantities are a bit unclear? More information will be needed to evaluate this cost estimate for pre-approvals.
 - Narrative provided on 7.1 in addition to the pre and post design change highlighting affected striping and additional work quotation.
- Added survey
 - City preference to paid on receipt of invoice per BI#4 as T&M once re-alignment invoice is completed. The monument noted above, not included. Re-alignment to be separately shown with both cut sheets and invoice for re-work provided for the storm forcemain system alignments.
 - Marshbank will provide this invoice and expect this to be paid promptly. Marshbank previously sent survey rates ahead of this work.
- Removals at unit pricing –
 - Additional sawcut above and beyond the incidental original work to be City preference to paid on receipt of invoice per BI#4 as T&M once re-alignment invoice is completed
 - This includes any minimum mobilization, slurry collection, stand by time for added potholes.
- 4 days of re-scheduling efforts
 - No working days to be charged, the overhead fee breakdown submitted per the "heavy job" pricing details at 32 hrs acceptable as a 1 LS fee to BI #4 in the amount of \$7587 for the field office, PM, PE and Superintendent as overhead costs.
 - No further information required as our interpretation.

- The Lump Sum Bid item #2, TSEC
 - Original bid price of \$15000 for 60 WD's is \$250 a day. At 4 days this is acceptable to add under BI #1 as a lump sum cost for adding \$1000.
 - No further information required as our interpretation.

- The Lump Sum Bid item #5, Traffic Control
 - Original bid price of \$75000 for 60 WD's is \$1250 a day. At 4 days this is acceptable to add under BI #1 as a lump sum cost for adding \$5000.
 - No further information required as our interpretation.

The use of the existing measurement and payment as written in FWD#1 will remain the intended payment mechanisms. Please comment or respond to the bulleted list KPG notes, and we can work to moving forward the added costs as indicated above. I am sure the City will have questions or concerns, so a meeting to discuss may be needed to process the added costs in full.

Please proceed with potholing for the modular structure verification as requested

Call me with any questions or comments to KPG's response to Marshbanks' forward pricing.

Thanks!

Matt North
Resident Engineer

KPG | SEATTLE • BELLEVUE • TACOMA • WENATCHEE

Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

www.kpg.com



From: Rob Gammell <rob@marshbankconst.com>
Sent: Monday, March 15, 2021 11:46 AM
To: Matt North <matt@kpg.com>
Cc: Kenton Wilde <Kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>
Subject: RE: EMWO: Design Issue
Importance: High

Matt,

Good morning,

APPLY-A-LINE, LLC

175 Roy Rd SW Bldg C Pacific WA 98047
Tel: 253-299-1200 Fax: 253-299-1250
mail@applyaline.com LIC. # APPLYLL8340J

PROPOSAL

ATTENTION: ROB- MARSHBANK CONSTRUCTION
PROJECT: EAST MARGINAL WAY OUTFALL STORMWATER
BID DATE: 3/12/2021 *DISCUSSED 3/11 RB*

ITEM #	DESCRIPTION	PLAN QTY	UNIT	UNIT BID	TOTAL BID
	CHANGE ORDER PAVEMENT MARKINGS RAISED PAVEMENT MARKER TYPE 1 RAISED PAVEMENT MARKER TYPE 2 PLASTIC CROSSWALK BARS	1.00	LS	2309.00	\$ 2,309.00
TOTAL					\$ 2,309.00

STIPULATIONS:

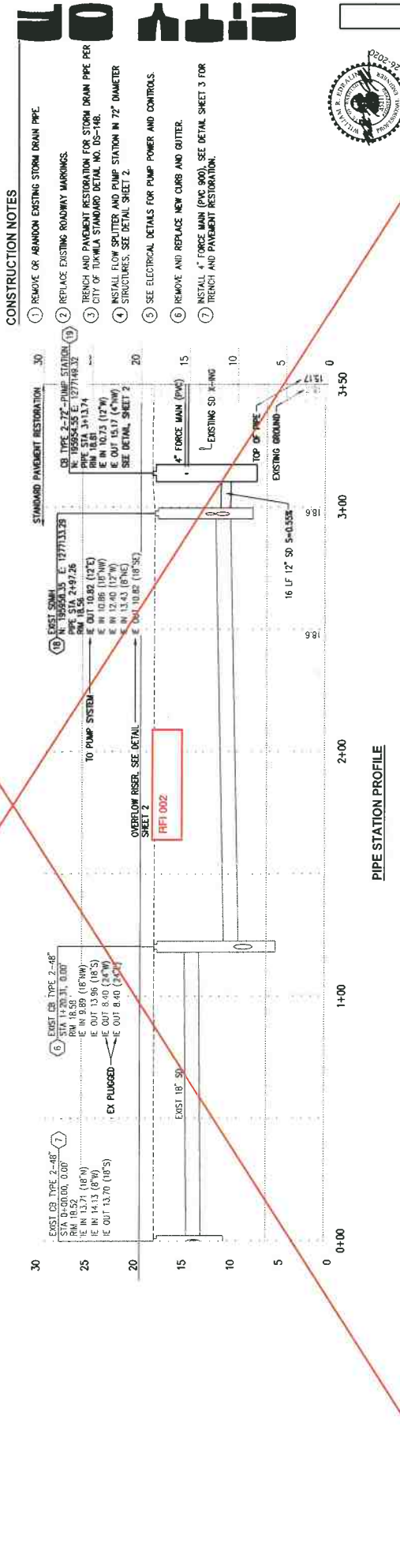
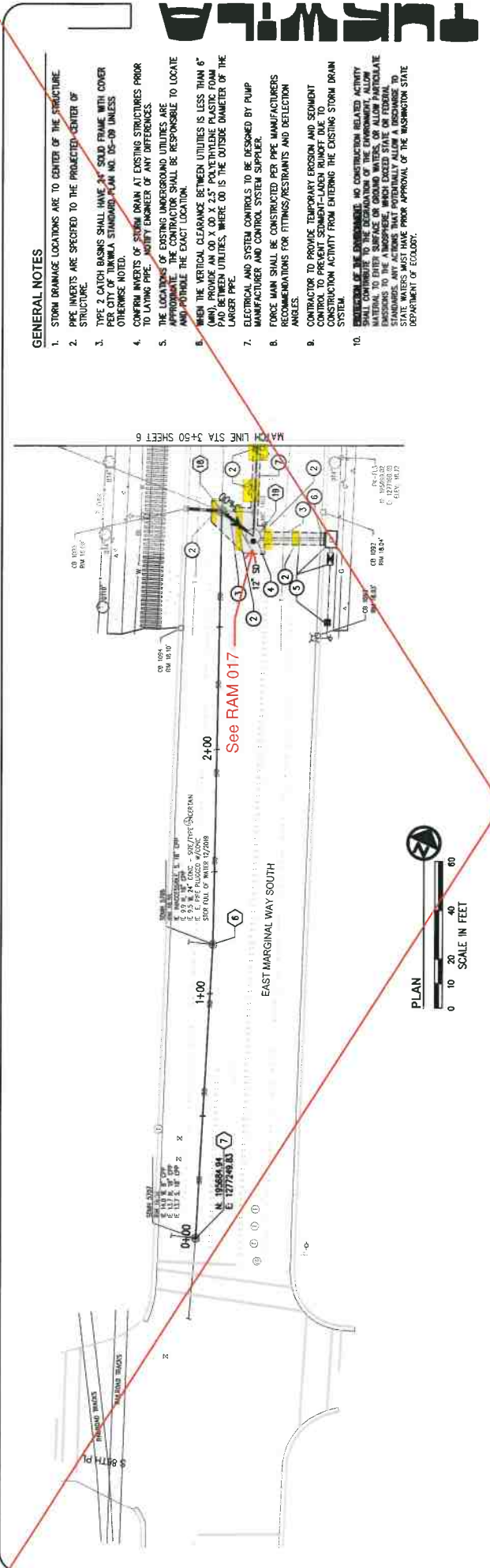
1. GENERAL CONTRACTOR TO PROVIDE TRAFFIC CONTROL
2. GENERAL CONTRACTOR TO PROVIDE PRELIMINARY MARKING FOR STRIPING LAYOUT
3. THIS PROPOSAL TO BE INCLUDED WITH CONTRACT DOCUMENTS
4. STANBY TIME \$100.00 PER HOUR PER PERSON *X 3 RISK = 300.00*
5. WHEN PROJECTS ARE LESS THAN \$ 10,000.00 APPLY-A-LINE REQUESTS A PURCHASE ORDER IN LIEU OF A FORMAL SUBCONTRACT.
BOND NOT INCLUDED

THANK YOU FOR THE OPPORTUNITY TO QUOTE THIS PROJECT WITH YOUR COMPANY.

SINCERELY,


MIKE "SUS" SUSNER
ESTIMATOR

PRICES INCLUDE MATERIAL,
INSTALLATION & INSURANCE.
PRICES GOOD IF CONTRACT IS
RECEIVED WITHIN 30 DAYS OF
AWARD.
AFTER 30 DAYS PRICES MUST
BE RENEGOTIATED.



GENERAL NOTES

- STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
- PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
- TYPE 2 CAST IRON RISERS SHALL HAVE AN SOLID FRAME WITH COVER PER CITY OF TUMWALL STANDARD PUMP NO. DS-148 UNLESS OTHERWISE NOTED.
- CONFORM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT THE EXACT LOCATION.
- WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN) PROVIDE AN O.D. X O.D. X 2.5' POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE O.D IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
- ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
- FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
- CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
- CAUTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL BE PERMITTED THAT COULD BE EXPECTED TO ALLOW MATERIAL TO ENTER SURFACE OR UNDERGROUND WATER OR ALLOW EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO WATER OR AIR SHALL REQUIRE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

- REMOVE OR ABANDON EXISTING STORM DRAIN PIPE.
- REPLACE EXISTING ROADWAY MARKINGS.
- TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUMWALL STANDARD DETAIL NO. DS-148.
- INSTALL FLOW METER AND PUMP STATION IN 72\"/>
- SEE ELECTRICAL DETAILS FOR PUMP POWER AND CONTROLS.
- REMOVE AND REPLACE NEW CURB AND GUTTER.
- INSTALL 4\"/>
- TRENCH AND PAVEMENT RESTORATION.



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by:	date:
designed:	wre:ESD
drawn:	wre:ESD
checked:	IND:ESD
approved:	WRE:ESD
scale:	AS SHOWN
sheet no.:	15
total no. sheets:	15

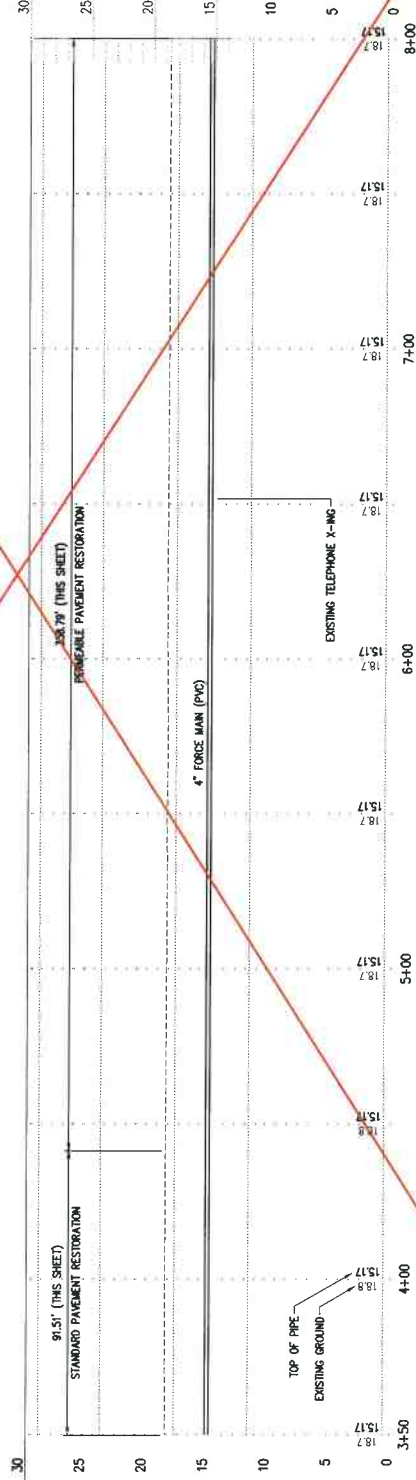
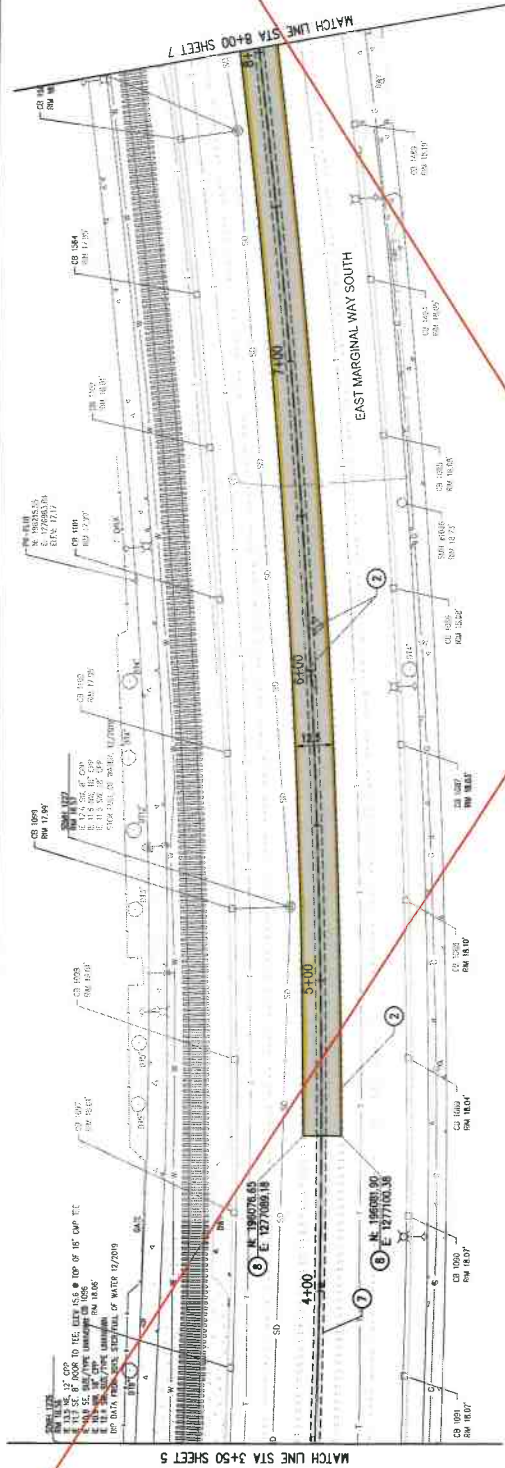
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GENERAL NOTES

1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
3. TYPE 2 CATCH BASINS SHALL HAVE 2" SOLID FRAME WITH COVER OTHERWISE NOTED.
4. CONFORM INVERTS OF SEWER DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING NEW CITY ENGINEER OF ART DIFFERENCES.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE TO BE LOCATED AND NOTED AT THE EXACT LOCATION.
6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" FROM PROPOSED UTILITY, THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE LARGER PIPE.
7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
9. CONTRACTOR TO PROMOTE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
10. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT. ALLOW CONSTRUCTION ACTIVITY TO PROCEED ONLY IF NECESSARY TO PROTECT AND ENHANCE THE QUALITY OF THE ENVIRONMENT. ANY ACTIONS THAT POTENTIALLY ALLOW A DEGRADATION TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

- 2) REPLACE EXISTING ROADWAY MARKINGS.
- 7) INSTALL 4" FORCE MAIN (PVC 900). SEE DETAIL SHEET J FOR TRENCH AND PAVEMENT RESTORATION.
- 8) REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION. SEE DETAIL SHEET X.



PIPE STATION PROFILE

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CONFORMED DOCUMENTS

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GENERAL NOTES

FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.

- 10. CONSTRUCTION OF THE ENVIRONMENT, NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OF GROUND WATERS OR ALLOW MATERIAL TO BE DEPOSITED IN THE ADJACENT WATERS, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY VIOLATE THESE STANDARDS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

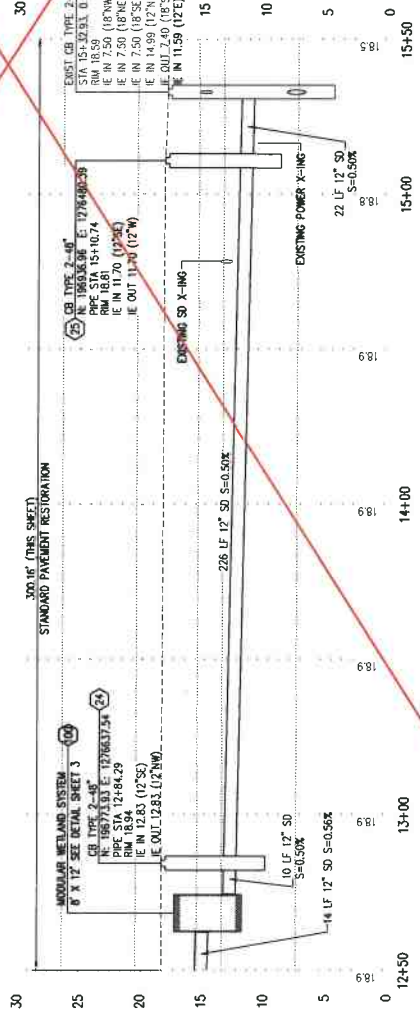
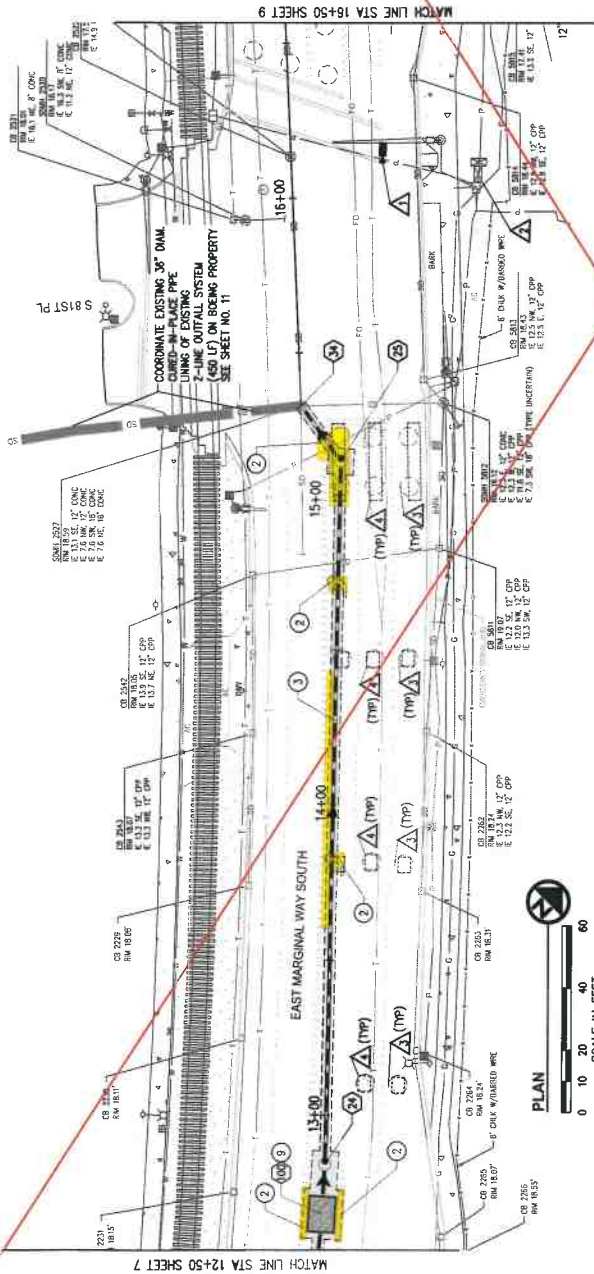
- 2. REPLACE EXISTING ROADWAY MARKINGS.
- 3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUMWALTA STANDARD DETAIL NO. 10-116.
- 9. INSTALL WATER QUALITY TREATMENT VAULT, SEE DETAIL SHEET 3.

SIGNAL GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM KIRKLAND AT (206) 730-8476 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
- 2. CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
- 3. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATION AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 10 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. REPRESENTATIVE SHALL VERIFY THAT ALL TRAFFIC SIGNALS ARE PROPERLY PROGRAMMED FOR WORK TO SAUWOT FOR PAVEMENT REMOVAL. ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
- 4. THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WISDOT/ASMA STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- △ FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM MOUNT PER MANUFACTURER'S SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE). FURNISH AND INSTALL VIDEO CABLEING TO CONTROLLER (ROUTE OF CABLEING SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- △ LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET, EDGE 2 CARD AND I/O MONITOR SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY THE CITY. JOUKEY LEVEL WORK IN THE CABINET, INCLUDING FIELD WIRING TERMINATION IS ALLOWED IN THE MESSAGE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- △ EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RUN 20S CABLES SHALL BE ABANDONED. ALL CABLES SHALL BE CUT PRIOR TO ANY SAW CUTTING OR GRADING. SPLICES IN THE JUNCTION BOX PRIOR TO ANY SAW CUTTING OR GRADING.
- △ VERTICAL DETECTION ZONE SIGNAL FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



PIPE STATION PROFILE



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STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

CONFORMED DOCUMENTS

KPG
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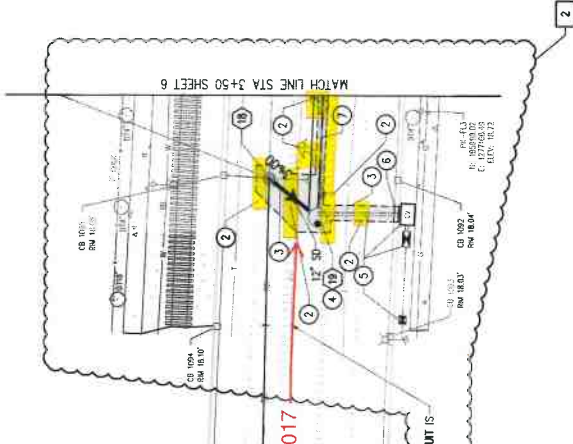
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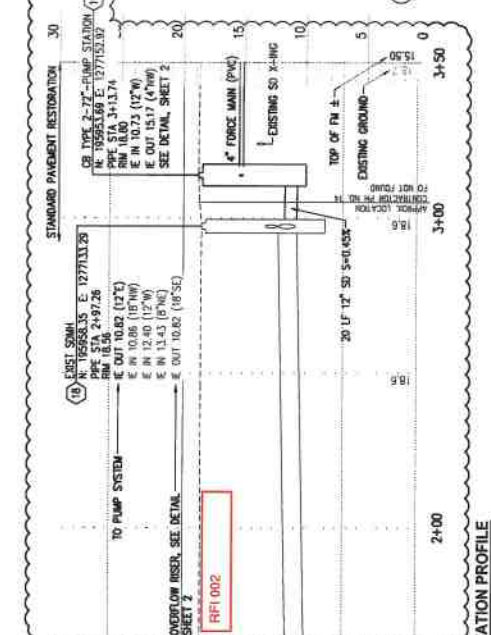
GENERAL NOTES

1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUMWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
4. CONFORM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY OWNER OF ANY DIFFERENCES.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND MARK THE EXACT LOCATION.
6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" AND PROVIDE AN 80' X 40' X 2.5' POLYETHYLENE PLASTIC FORM (PE) UNDER THE UTILITIES, WHERE 60 IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SETBACK-LAIDEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
10. **RESTORATION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OF GROUND WATERS, OR ALLOW PARTICULATE TO ENTER SURFACE OF GROUND WATERS. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS. ANY ACTORS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



CONSTRUCTION NOTES

1. REMOVE OR ABANDON EXISTING STORM DRAIN PIPE.
2. REPLACE EXISTING ROADWAY MARKINGS.
3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUMWILA STANDARD DETAIL NO. DS-14B.
4. INSTALL FLOW SPLITTER AND PUMP STATION IN 72" DIAMETER STRUCTURES. SEE DETAIL SHEET 2.
5. SEE ELECTRICAL DETAILS FOR PUMP POWER AND CONTROLS.
6. REMOVE AND REPLACE NEW CURB AND GUTTER.
7. INSTALL 4" FORCE MAIN (PVC 600). SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
8. REMOVE AND REPLACE EXISTING MONUMENT.



PIPE STATION PROFILE



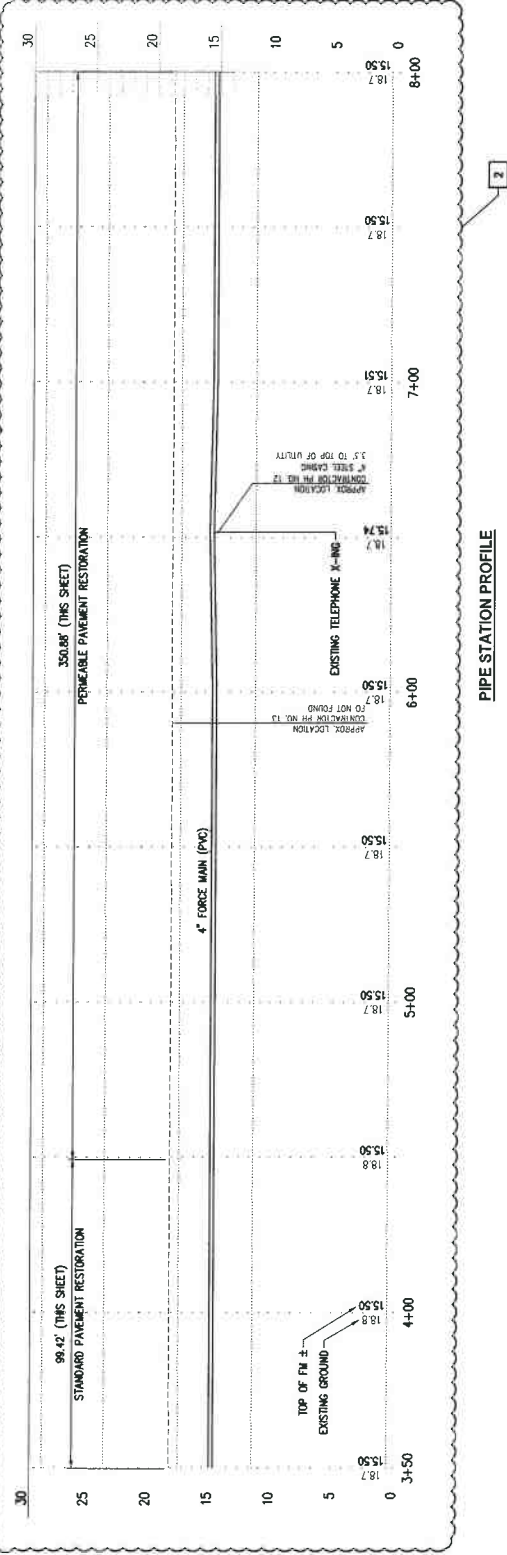
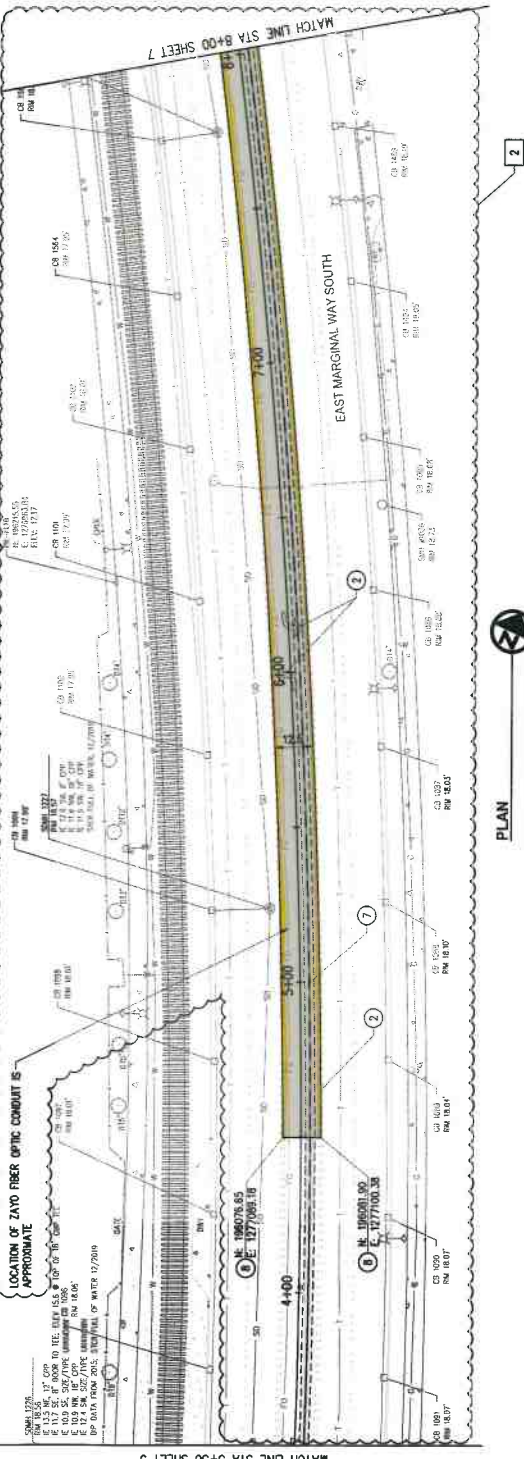
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PROJECT NO.	DATE: 06/20

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DRAINAGE PLANS

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- GENERAL NOTES**
- STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
 - PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
 - TYPE 3 CAST-IRON RISERS SHALL HAVE AN 8" SOLID FRAME WITH COVER PER CITY OF TUMACACI STANDARD PLAN NO. 69-08 UNLESS OTHERWISE NOTED.
 - CONFORM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
 - THE LOCATIONS OF EXISTING IMPROVING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POT-HOLE THE EXACT LOCATION.
 - WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN) PROVIDE AN 8" X 8" X 2.5' POLYETHYLENE GLASS FIBER PAD BETWEEN UTILITIES, WHERE 00 IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
 - ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
 - FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
 - CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LOADED RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
 - PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL BE CONSIDERED TO BE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIALS TO BE STORED OR PLACED ON THE GROUND SURFACE, AND AVOID EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO ADJACENT WATERSHEDS SHALL BE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

- CONSTRUCTION NOTES**
- REPLACE EXISTING ROADWAY MARKINGS.
 - INSTALL 4" FORCE MAIN (PVC 900). SEE DETAIL SHEET 3 FOR BENCH AND PAVEMENT RESTORATION.
 - REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION. SEE DETAIL SHEET 3.



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no.	date
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CONFORMED DOCUMENTS

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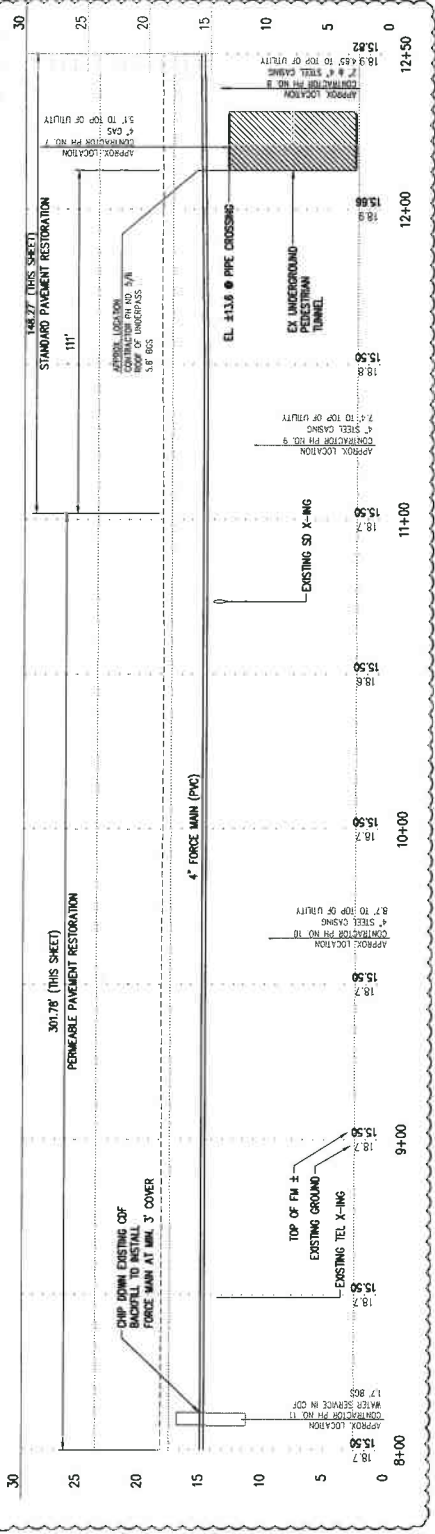
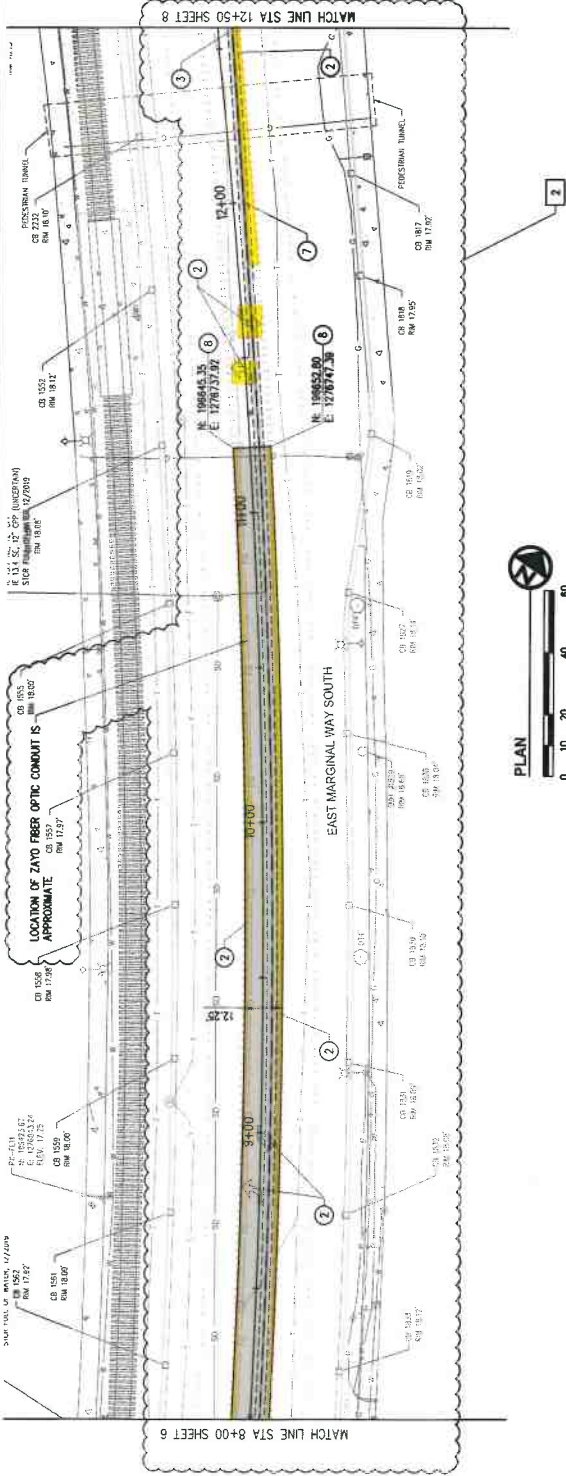
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DESIGN	DESIGN	08/15/20
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GENERAL NOTES

1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER PERMITS AND AN OSHA STANDARD PLAN NO. 05-09 UNLESS OTHERWISE NOTED.
4. CONCRETE INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DEFICIENCIES.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND SHALL BE RESPONSIBLE TO LOCATE AND IDENTIFY THE EXACT LOCATION.
6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN. PIPE DIA. MINUS COVER), THE CONTRACTOR SHALL BE RESPONSIBLE TO PAD BETWEEN UTILITIES, WHERE CD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LOADED RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
10. **DEFENSEMENT OF THE ENVIRONMENT.** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT. ALLOW CONSTRUCTION ACTIVITY TO PROCEED ONLY WHEN ALL NECESSARY PRECAUTIONS ARE IN PLACE TO PREVENT EROSION AND SEDIMENTATION. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



- CONSTRUCTION NOTES**
- 2 REPLACE EXISTING ROADWAY MARKINGS.
 - 3 TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. 05-148.
 - 7 INSTALL 4" FORCE MAIN (PVC 800). SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 - 8 REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION. SEE DETAIL SHEET 3.



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DRAINAGE PLANS

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CHECKED	JJD/ESZ	
APPROVED	WHS/ESZ	
FIELD NO.		



GENERAL NOTES

FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.
 10. **RESTORATION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT. ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW MATERIAL TO BE DEPOSITED IN ANY MANNER THAT COULD BE A SOURCE OF POLLUTION. TAKE APPROPRIATE ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO SENSITIVE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

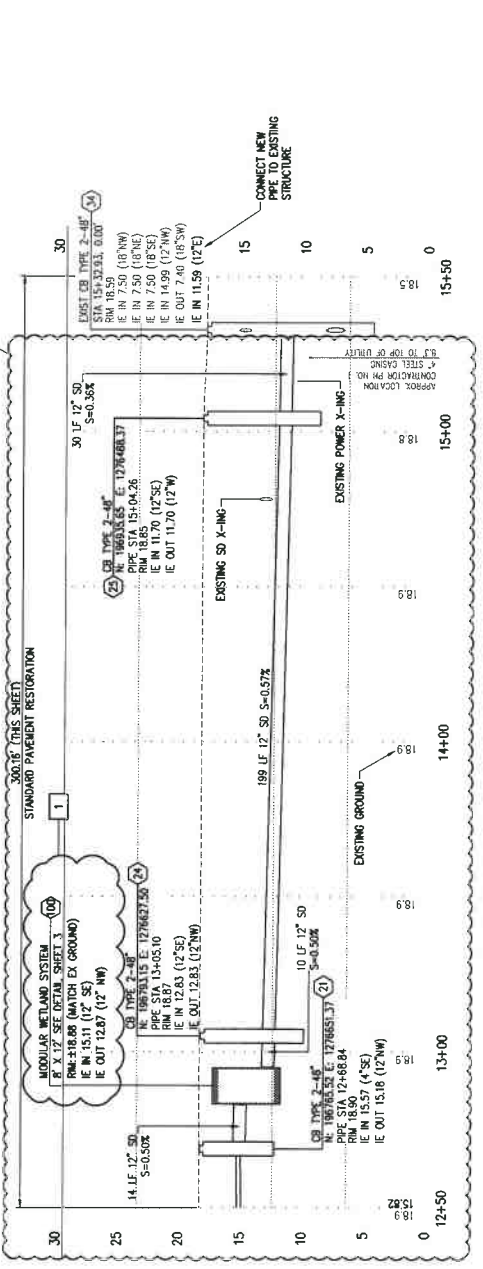
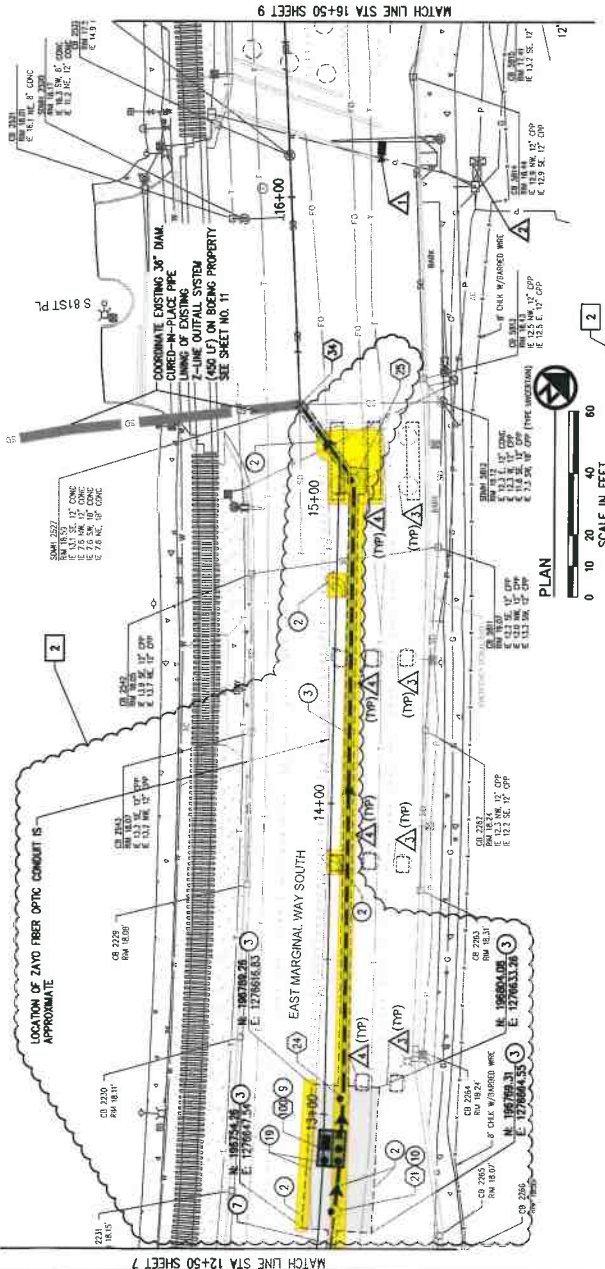
2. REPLACE EXISTING ROADWAY MARKINGS.
3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUMWALU STANDARD DETAIL NO. DS-146.
7. INSTALL 4" FORCE MAIN (PVC 900). SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
9. INSTALL WATER QUALITY TREATMENT VAULT. SEE DETAIL SHEET 1.
10. INSTALL LOOP CONNECTION INSIDE STRUCTURE WITH CHANNEL BOTTOM. SEE DETAIL SHEET 2 FOR DISCHARGE PIPING.
16. PORTLAND CEMENT CONCRETE (PCC) SHALL BE PLACED AS NEAR AS PRACTICAL TO ZERO DUCT BASED ON ACTUAL FIELD LOCATION.

SIGNAL GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM HIRKLAND AT (206) 730-8478 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
2. CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
3. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 7 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. SIGNED AND DATED WORK ORDER SHALL BE DISCONNECTED AT THE JUNCTION BOX SPICE POINT PRIOR TO START OF WORK. SIGNAL ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
4. THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WASH STATE STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- △ FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM MOUNT PER MANUFACTURER'S SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY VIDEO CAMERAS TO CONTROLLER (EQUIPMENT REPRESENTATIVE), FURNISH AND INSTALL VIDEO CAMERAS TO CONTROLLER (ROUTE OF CABLES SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- △ LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET, EDGE 2 CARD AND LOG MONITOR SHALL BE VERIFIED BY THE CITY ENGINEER PRIOR TO THE START OF WORK. ALL WORK IN THE PRESENCE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- △ EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RIM 20S WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES AND DISCONNECT LOOP.
- △ VIRTUAL DETECTION ZONE SHOWN FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



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CONFORMED DOCUMENTS



by	date
designed	
drawn	
checked	
approved	
field	

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Rob Gammell

From: Matt North <matt@kpg.com>
Sent: Thursday, March 11, 2021 10:36 AM
To: Rob Gammell
Cc: Kenton Wilde; Alexa Henry; Ed Wagner; Ernie Hinds; Jacob Williams; Jeff Heglund; Patrick; Ryan Larson; Chris Rammage; Ray Edralin; Daniel Clark; Nelson Davis; Kelly Clark
Subject: RE: EMWO: Design Issue
Attachments: FWD #001 - Tukwila EMWS Outfall - Plan Pages 5,6,7,8 revised.pdf; 14015STRM01_03112021.dwg

Follow Up Flag: Follow up
Flag Status: Flagged

Rob,

Thank you for your email and added items list for considerations.

As anticipated here are the following files for your review and distributions to your staff, structure suppliers, the surveyor (including the .dwg file), and your saw cutter. Please begin your review, and the scheduling of the surveyor and saw cutters for these design changes.

An official Field Work Directive with measure and payment language will follow. However, this will include factors, as discussed & indicated in the email below, to be finalized at a later date. This is due to Marshbank's crew being able to proceed with scheduled work, the days and impacts that will need to be assessed and incorporated to the costs of the issuing of these design changes. Due to this, the Field Work Directive measure and payment language will indicate that costs will be finalized once the full impacts are fully recognized, shown to the City with appropriate backup, and as agreed upon with the City.

Attachments:

- FWD #001 - Tukwila EMWS Outfall - Plan Pages 5,6,7,8 revised.pdf
- 14015STRM01_03112021.dwg

Contact me with any questions or concerns to the plan design changes, and this direction to proceed with the scheduling of this work within FWD #001 plan pages.

Thanks!

Matt North
Resident Engineer

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Interdisciplinary Design

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O: 253 627 0720

C: 206 595 1733

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From: Rob Gammell <rob@marshbankconst.com>

Sent: Thursday, March 11, 2021 10:10 AM

To: Matt North <matt@kpg.com>

Cc: Kenton Wilde <Kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>

Subject: RE: EMWO: Design Issue

Importance: High

Matt,

I don't mean to press but it was our understanding you would have revised plans for us by 9:00 am. We understand this is no small undertaking. As it currently stands, my surveyor (Northline) is confirming he can get back to the site Monday to re-stake any changes. This is assuming he has office time to review today and tomorrow and confirm any questions. See attached T&M rates sent by the surveyor.

A few more considerations:

-Need to review each structure adjusted with our structure supplier designers.

-Make sure Strt #100 as built is feasible with any changes.

-Understand the impact of the sand (backfill over zayo line) adjacent and through the storm regarding specialty shoring or productions.

-Can you confirm or send detail for typical ductbank utility installation in City of Tukwila specific to backfill, clearances, restoration if undermined.

-Sawcutting is scheduled for Tuesday 7-30 to 8:00 am. (Assuming all information is in hand and ready)

-We have missed the original delivery dates of the large structure (100), 4" pipe package, and related items and need to confirm any changes and dates we will be onsite and ready to install.

-Is there major changes to the east to consider a new traffic control plan before we sawcut?

We are trying our best to schedule the unknown at the moment to get back to work. Anything helps.

Thanks

Rob Gammell

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 209-8225 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

From: Matt North <matt@kpg.com>
Sent: Wednesday, March 10, 2021 6:28 PM
To: Rob Gammell <rob@marshbankconst.com>
Cc: Kenton Wilde <Kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>
Subject: RE: EMWO: Design Issue

Rob,

As discussed on the phone earlier with you and Kenton Wilde, KPG will have a design to you by tomorrow.

The need for Marshbank to re-stake and survey is understood. As the rescheduling of sawcutting and this survey request is needed prior to Marshbank's crew being able to proceed with scheduled work, the days and impacts will need to be assessed and incorporated to the costs of the issued design changes.

KPG will not charge for additional contract days used until the sawcutting is able to begin. At which point the work stoppage will be considered over.

Also discussed on the call, the crew time assessments will need to be approved by the City as part of the review of the cost impacts to the issued design changes. Until the full scope and schedule impacts are assets, KPG will continue to track time as force account for work performed on site. Crew time not on site and not performing work, will need to be discussed further and approved with the City prior to KPG being able to agree to at home costs. The discussions channels to potential standby time will need to, and will remain open.

All indications to receiving plans for Marshbank to proceed with scheduling survey and sawcutting, allowing Marshbank to resume planned storm installations, are confirmed, and will be sent by tomorrow. Please plan accordingly, as time will be of the essence.

Contact me with any further questions or concerns.

Thanks!

Matt North
Resident Engineer

KPG | SEATTLE • BELLEVUE • TACOMA • WENATCHEE

Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

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From: Rob Gammell <rob@marshbankconst.com>

Sent: Wednesday, March 10, 2021 5:28 PM

To: Matt North <matt@kpg.com>

Cc: Kenton Wilde <kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>

Subject: Re: EMWO: Design Issue

Marshbank is completed with potholes today and will not be onsite tomorrow as discussed earlier on the phone. We will contact survey to let them know incoming design changes are expected soon and get on their scheduling books for restaking and office time. Oldcastle will review and alignment or core changes, and we will shoot for Monday likely as a start unless we can line things up faster.

To reiterate, We are currently in a work stoppage regarding how we bid this project and sequence to commence. My understanding is KPG is proficiently working on design changes to facilitate a design that is constructible. After our phone discussion earlier KPG asked the question if Marshbank could sawcut the permeable area. Unfortunately as there are no structures present in this area STA ~11+00 TO 4+50. Laying pipe starting the middle of the trench is not feasible as well as we do not have the required trench box equipment to pivot to the 72" pump station structure, along with running the same risk of alignment changes could result in costly removals, and resetting. Either way Marshbank did not bid this project for sequencing work in this manner and any deviation not only changes the means and methods but greatly increases the costs.

Additionally, Marshbank has no other projects to pivot the crew to at the moment. Marshbank is diligently working to find another project during this period but run the risk of losing our productive crew to another contractor in the interim. It is our position that Marshbank shouldn't be penalized for design issues out of our control. A reasonable approach to resolve this issue, assuming this will be a swift design change, would be to compensate the onsite crew per day until production and sequence work can begin while not working. This crew will be at home for the foreseeable future until we can find another project or begin work to be clear. The measurement can be in the form of a daily force account sheet for 8 hours per each individual.

We consider this all part of this change since end of shift Monday. I will be providing supplemental information regarding costs.

Thanks

Rob Gammell

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA [98258-0097](tel:98258-0097)

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[\(425\) 377-0709](tel:425-377-0709) Fax

Sent from my T-Mobile 4G LTE device

----- Original message-----

From: Rob Gammell

Date: Wed, Mar 10, 2021 7:45 AM

To: Matt North;

Cc: Kenton Wilde;Alexa Henry;Ed Wagner;Ernie Hinds;Jacob Williams;Jeff Heglund;Patrick;Ryan Larson;Chris Rammage;Ray Edralin;Daniel Clark;Nelson Davis;Kelly Clark;

Subject:RE: EMWO: RFI 014 - Comm Line Locate Present - Response

Matt,

Thank you for the prompt response. Can you confirm if KPG is meeting Marshbank reps onsite today to layout the bioretention area today? We can then decide if the area marked for investigation are sufficient for KPG. We can brainstorm onsite other ideas as well.

Let me know your thoughts.

Thanks

Rob Gammell

Marshbank Construction, Inc.

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From: Matt North <matt@kpg.com>

Sent: Wednesday, March 10, 2021 7:40 AM

To: Rob Gammell <rob@marshbankconst.com>

Cc: Kenton Wilde <Kenton@marshbankconst.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Daniel Clark <daniel@kpg.com>; Nelson Davis <Nelson@kpg.com>; Kelly Clark <kellyc@kpg.com>

Subject: RE: EMWO: RFI 014 - Comm Line Locate Present - Response

Hello Rob,

Please find the response to RFI #14 for the "Comm Line Locate Present" information request.

Attachments:

- RFI 014 - Comm Line Locate Present - Response.pdf

I have change the subject line of this incoming email for tracking purposes to reference this RFI #14.

Contact me with follow up questions, and or updates to the onsite pothole report progress.

Thanks!

Matt North

Resident Engineer

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Interdisciplinary Design

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From: Rob Gammell <rob@marshbankconst.com>

Sent: Monday, March 8, 2021 3:07 PM

To: Matt North <matt@kpg.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>

Cc: Kenton Wilde <Kenton@marshbankconst.com>

Subject: RE: EMWO: Weekly Progress Meeting - Link to MS Teams meetings.

Importance: High

Please see attached RFI 014. This is time sensitive by tomorrow a.m. Photos attached for reference.

Thank you

Rob Gammell

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

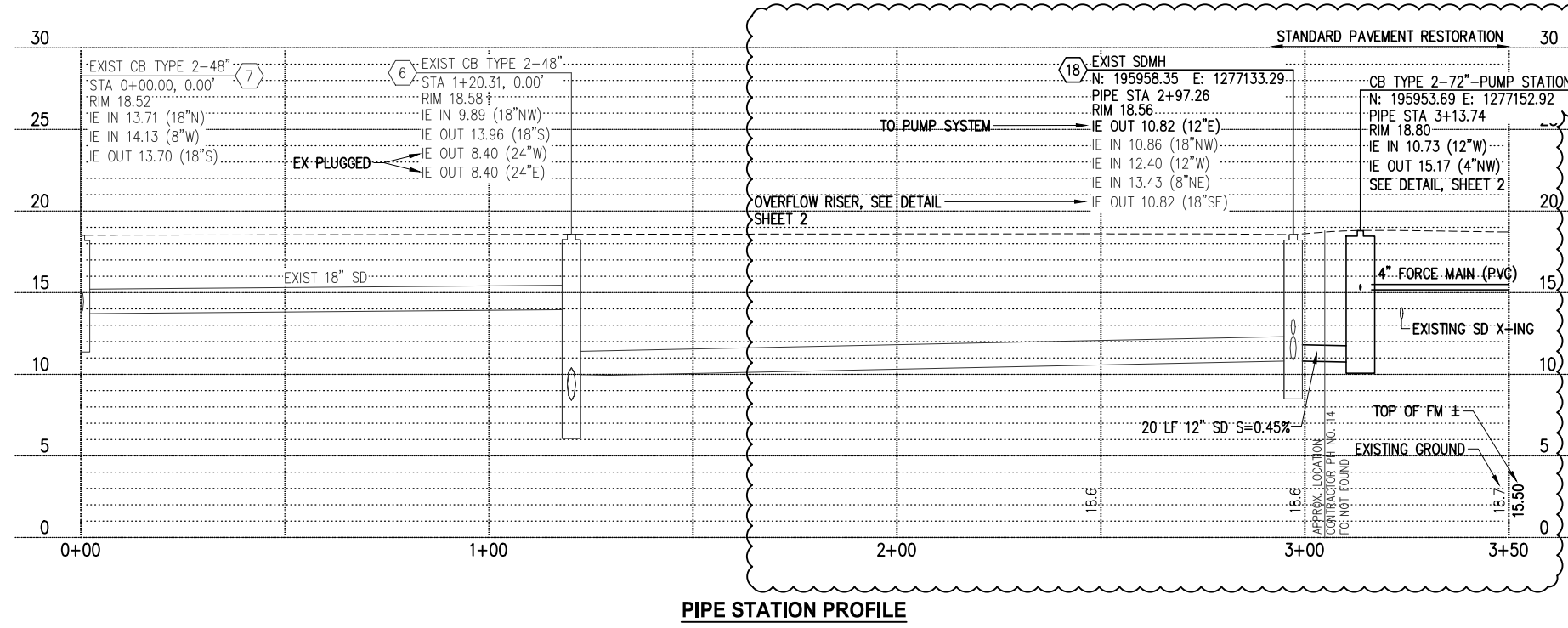
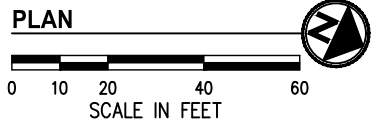
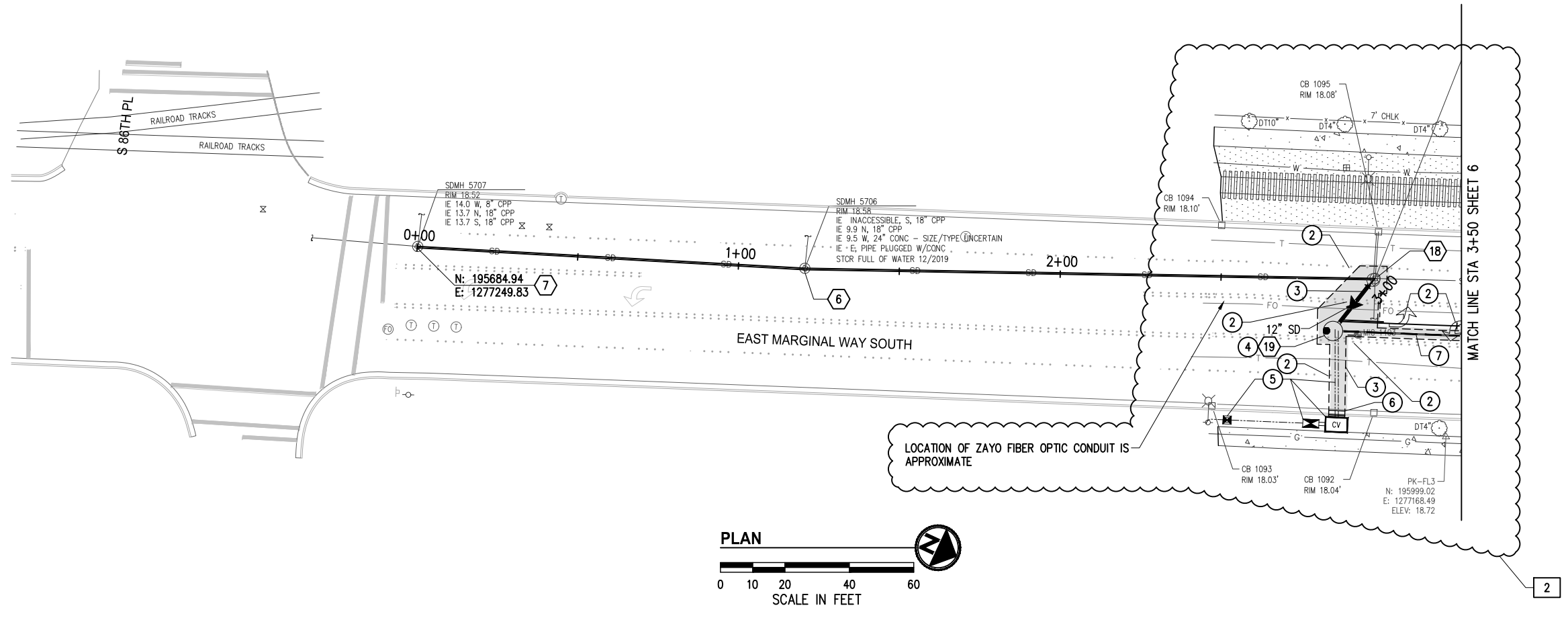
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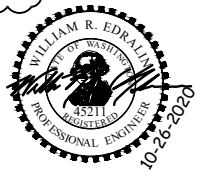
GENERAL NOTES

1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUKWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
4. CONFIRM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POT-HOLE THE EXACT LOCATION.
6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN), PROVIDE AN OD X OD X 2.5" POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE OD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



CONSTRUCTION NOTES

- 1 REMOVE OR ABANDON EXISTING STORM DRAIN PIPE.
- 2 REPLACE EXISTING ROADWAY MARKINGS.
- 3 TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
- 4 INSTALL FLOW SPLITTER AND PUMP STATION IN 72" DIAMETER STRUCTURES, SEE DETAIL SHEET 2.
- 5 SEE ELECTRICAL DETAILS FOR PUMP POWER AND CONTROLS.
- 6 REMOVE AND REPLACE NEW CURB AND GUTTER.
- 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- 8 REMOVE AND REPLACE EXISTING MONUMENT.



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proj dir		
field bk no		

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CONFORMED DOCUMENTS

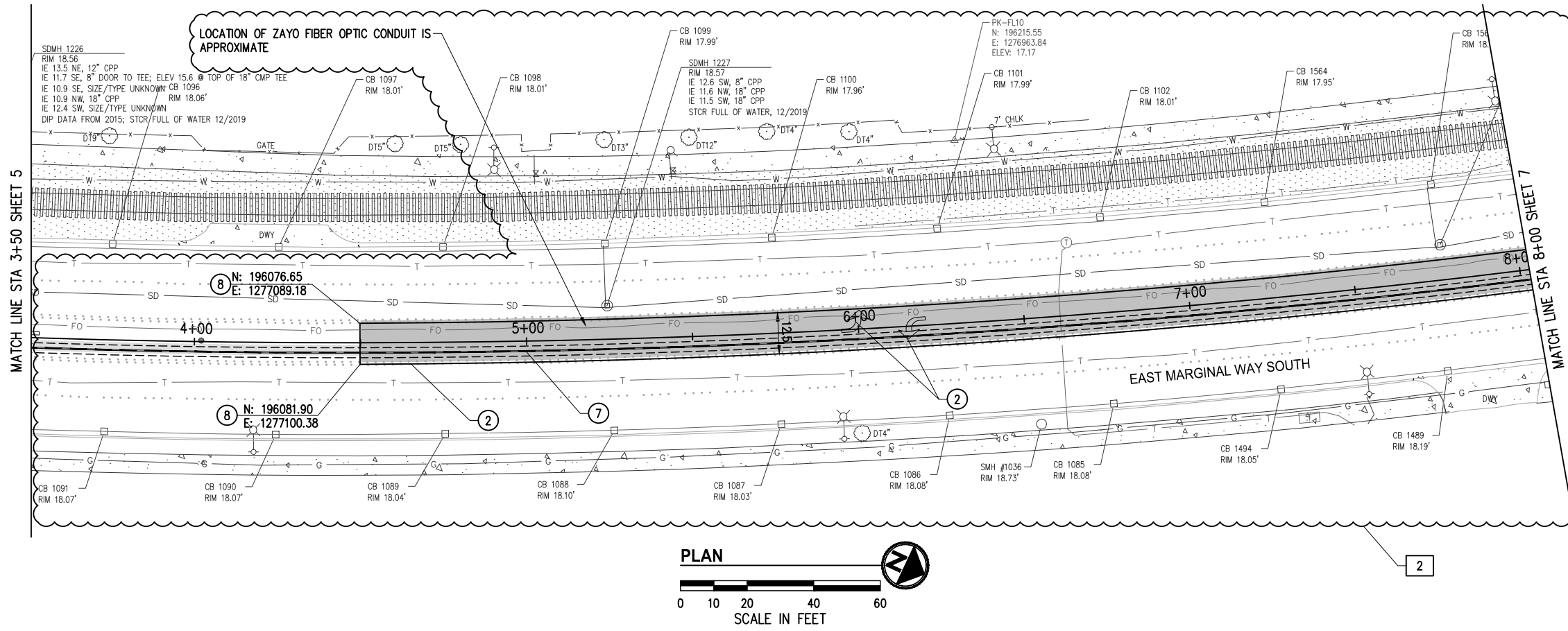
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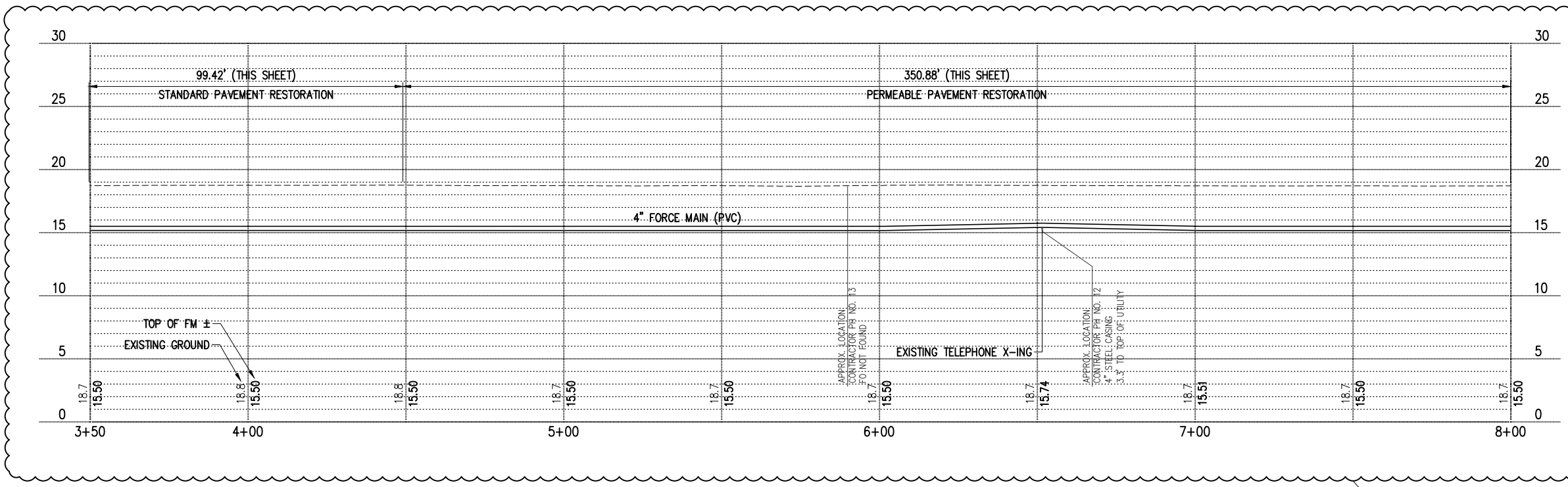
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CONSTRUCTION NOTES

- 2 REPLACE EXISTING ROADWAY MARKINGS.
- 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- 8 REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.



PIPE STATION PROFILE

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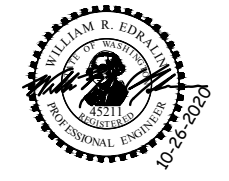
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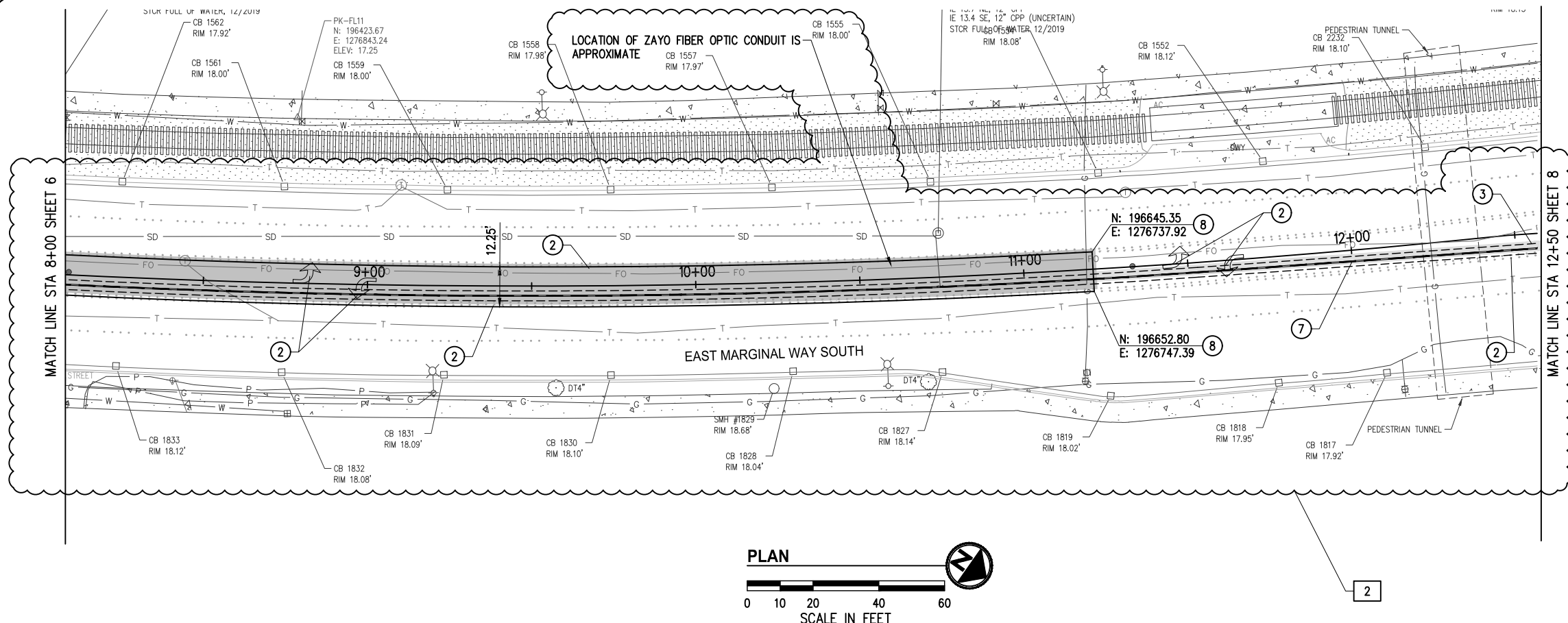
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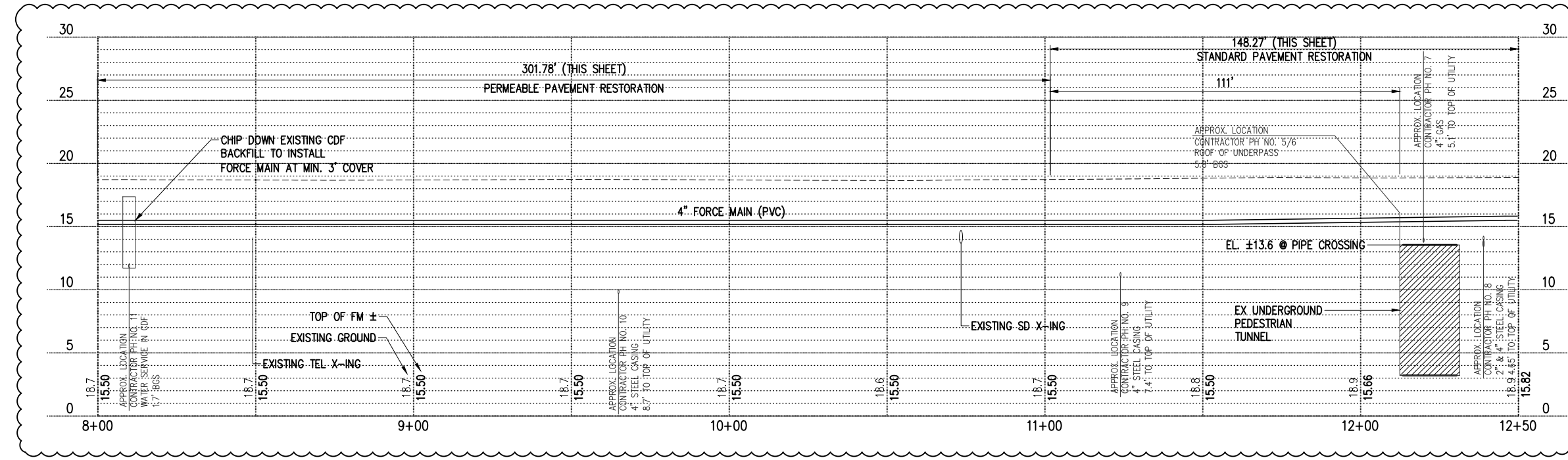
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- CONSTRUCTION NOTES**
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 - 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 - 8 REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.

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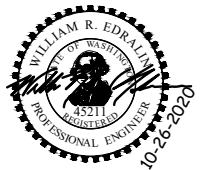
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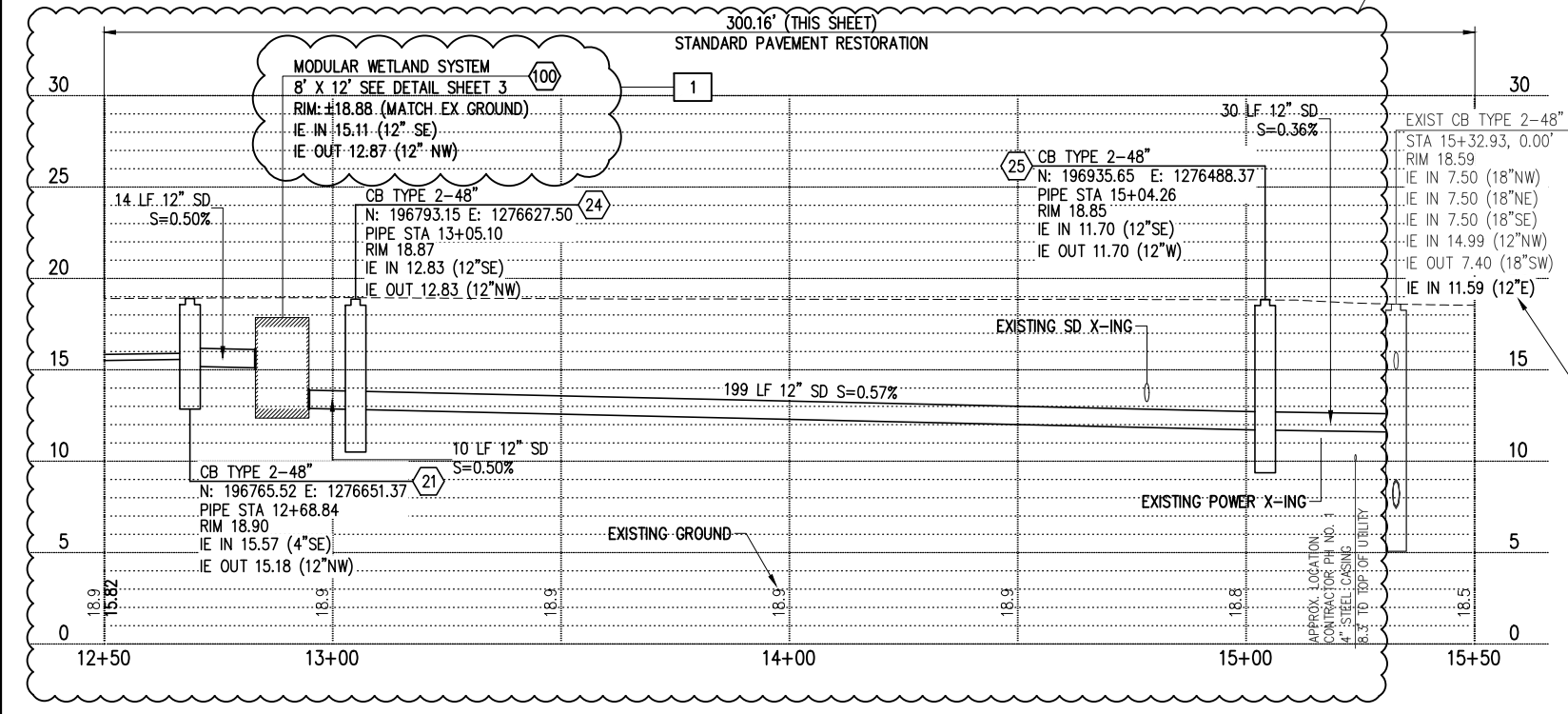
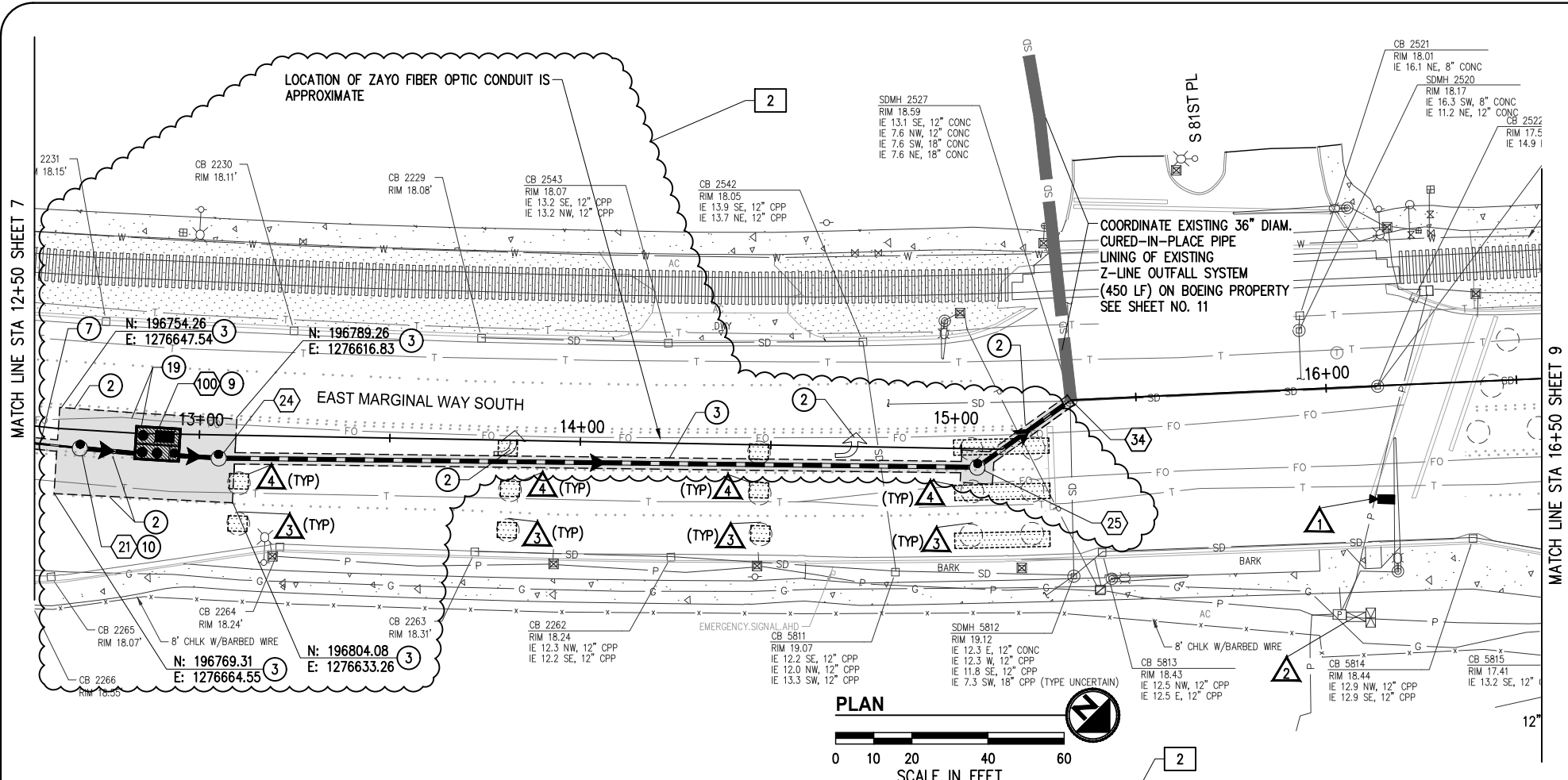
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GENERAL NOTES

- FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.
- PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

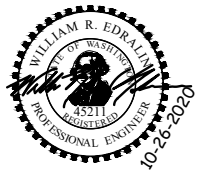
- REPLACE EXISTING ROADWAY MARKINGS.
- TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
- INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- INSTALL WATER QUALITY TREATMENT VAULT, SEE DETAIL SHEET 3.
- INSTALL DROP CONNECTION INSIDE STRUCTURE WITH CHANNEL BOTTOM. SEE DETAIL SHEET 2 FOR DISCHARGE PIPING.
- POTHOLES REVEALED SIGNIFICANT ALIGNMENT SHIFT IN ZAYO CONDUIT IN THIS AREA. SET MODULAR WETLAND AS NEAR AS PRACTICAL TO ZAYO DUCT BASED ON ACTUAL FIELD LOCATION.

SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM KIRKLAND AT (206) 730-8476 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
- CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATION AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 10 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. ALL TWISTED PAIR LOOP WIRE SHALL BE DISCONNECTED AT THE JUNCTION BOX SPLICE POINT PRIOR TO SAWCUT FOR PAVEMENT REMOVAL. ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
- THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM. MOUNT PER MANUFACTURERS SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE). FURNISH AND INSTALL VIDEO CABLING TO CONTROLLER (ROUTE OF CABLING SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET. EDGE 2 CARD AND LCD MONITOR SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY THE CITY. JOURNEY LEVEL WORK IN THE CABINET, INCLUDING FIELD WIRING TERMINATION IS ALLOWED IN THE PRESENCE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RUN 2CS WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES AND DISCONNECT LOOP SPLICES IN THE JUNCTION BOX PRIOR TO ANY SAW CUTTING OR GRINDING.
- VIRTUAL DETECTION ZONE SHOWN FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



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designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

KPG
3131 Elliott Ave
Suite 400
Seattle, WA 98121
(206) 286-1640

2502 Jefferson Ave
Tacoma, WA 98402
(253) 627-0720
www.kpg.com

CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01
1	12/20	RFI NO. 004

8
16
file no
scale AS SHOWN
06/20

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

March 22, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 8

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notice of differing site conditions and our interpretation of direction given by KPG to postpone saw-cutting and tracking efforts during redesign for consequential delays.

1. The date and nature of the protested order, direction, instruction, interpretation or determination

Marshbank Construction Inc. (Marshbank) is providing this supplemental information related to serial letter No.005 (Differing Site Conditions). The purpose of this information is to provide all known direct costs associated with this delay arising from March 9, 2021 through March 17, 2021. These costs have been compiled with the expectation for prompt payment related to the issue. The two issues are the bio retention sidewalk area and the storm activity both in redesign and on hold until further notice at the current expense of Marshbank.

2.A full discussion of the circumstances which caused the protest, including names of persons involved, time, duration and nature of Work involved, and a review of the Plans and Contract Provisions referenced to support the protest.

Persons Involved:

- Marshbank Construction
 - Rob Gammell (Project Manager)
 - Ernest Hinds (Superintendent)
 - Patrick Gleason (Project Engineer)
 - Chris Rammage. (Foreman)

- City of Tukwila and its representatives
 - Matt North (KPG-Resident Engineer)
 - Alexa Henry (Construction Services)
 - Ed Wagner (Lead Inspector)
 - Ray Larson (City of Tukwila-Project Manager)

- KPG Design
 - William R. Edralin (Design Engineer/Final Stamp)

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Relevant Timeline of Events:

On March 3, 2021, Marshbank visited the site for initial locate boundary markings. Once onsite it appeared that a potential scaling issue was present for the sidewalk area regarding the bioretention zone after a cursory site walk. Marshbank requested a meeting for an onsite visit with KPG/City of Tukwila to discuss existing conditions in contrast to the plans. This meeting was held on March 4, 2021 and present for this meeting was Rob Gammell (MCI PM), Ernie Hinds (MCI Superintendent), Ed Wagner (KPG Lead Inspector), Matt North (KPG, RE), Ryan Larson (Tukwila PM). Marshbank brought to attention questions about the design vs actual field conditions before mobilization occurred. Marshbank agreed to follow up immediately with an RFI illustrating the issues combined with site photos.

The same day as March 4, 2021, Marshbank sent an immediate RFI (#011) identifying both differing site conditions along with photos for easy interpretation of the issue. Specifically showing how the as-bid detail showed an existing 6" concrete area for doweling into a planned vertical wall appeared to be a thin questionable condition asphalt present. This was in addition to a horizontal issue for existing sidewalk area in regards to tree pits not able to retain a permanent 6' walkway.

No immediate answer or timeline for redesigning the section of work "bioretention sidewalk area" was given. Marshbank was not notified to delay mobilization in any manner at this time and mobilizes for work on March 8, 2021. As Marshbank is in the process of mobilizing equipment and laying out sawcut behind the survey pins per plan. It appeared onsite that another vault lid was in the center turn lane absent of definitive markings where future storm is to be installed. This did not have sufficient informative locate marks to Marshbank's acceptance and another locate specific call via 811 is generated by Marshbank to clarify the identifiers. Marshbank brought to KPG's attention the locate paint indicating a communication line roughly 3' wide in the future storm alignment which is not shown on the plan documents. In expedited fashion and on the same day Marshbank immediately sent an RFI (#014) requesting direction and alerting KPG of the "time sensitive issue". KPG responds at 4:44 pm with a direction of a work stoppage order and consider this a response to RFI #014. This resulted in added potholes directed by KPG for further design investigation. Both the issue of the sidewalk bioretention area needing to be redesigned and the gravity/force main activity resulted in work stopping design issues which kept Marshbank from being in any manner productive. This displaced the crew, and focused on potholing both overstaffed and inefficient while sacrificing concurrent work as bid.

The first weekly meeting is attended virtually by the project team and Marshbank transmitted serial letter #05 on the same day March 9, 2021 which formally notified KPG and the City of Tukwila of the communication line differing site condition present. The intent of this notification in conjunction with the discussion in the weekly meeting was to alert KPG/Tukwila of the various design issues brought forward and how Marshbank intends to track these issue(s) via force account until production work as bid can be realized. Marshbank made sure to state in serial letter No. 5 the issue of bid item potholing due to the changed conditions for critical stoppage. As detailed in said serial letter for the crew being dedicated for potholing materially changed the way we priced and the quantity of each pothole.

3/9/2021 – Complete loss of production. After the work stopping direction, crew exclusively worked on all potholes including added quantities never quantified in the per each proposal price. Marshbank bid the project to concurrently sawcut with slurry collection laborers (MCI crew members) while hardscape was being stripped and hauled off to waste site. This would allow clear and unobstructed access for (1) vector truck to pothole the proposal quantity (6). Marshbank thus had to pivot from this means and methods to a focused (5) man crew exclusively on ~13 potholes and a minimum sawcut charge.

The following remaining timeline dates have been itemized for ease of reading.

3/10/2021 – Complete loss of production. KPG responds to RFI (#014) stating that KPG understands they have added potholes and will agree to track for fair and equitable agreement. By 2:56 pm Marshbank provides all data from potholing as directed via email.

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3/11/2021 – Complete loss of production and displaced crew.

3/11/2021 (10:08am) -Marshbank provides surveyor rates for T&M for KPG's records.

3/11/2021 (10:36am) – KPG send redesign plan requesting rapid scheduling of survey and saw-cutting.

3/12/2021 – Complete loss of production and displaced crew.

3/15/2021 – Small crew supporting survey with traffic control and assisting layout for saw-cutting the next day. Complete loss of any critical path work.

3/16/2021 – Complete loss of production. Crew beginning to assist saw-cutting out of sequence, no work completed in the manner bid.

3/17/2021 – Complete loss of production and working on track force account as accepted forward price still outstanding. Crew began hardscape stripping and excavation for structure #25. Encountered a 4" potentially known (KPG Plan Set show FO) in the area of excavation in direct conflict with the structure/shoring box. Seemingly from the redesign shifting from a clear separation to overlap of said conduit.

3/17/2021 – Related to RFI and initial pricing sent for the redesign Marshbank encounters sand encroaching into preliminary excavation. No inspector onsite at this time. Email notification with time and pictures sent to KPG (8:46 am)

3/17/2021 – (9:37 am) Marshbank immediately notifies KPG onsite as well as RFI (#021)

3/17/2021 - (6:21 pm) KPG send email restating onsite discussions for tracking the entire day as lost production and reimbursement via force account. "The storm work on East Marginal Way is on hold until further notice."

3/18/2021 - No production. Equipment on standby.

3/19/2021 - No production. Equipment on standby.

3/19/2021 – Marshbank's baseline schedule approved "NET"

3/22/2021 – Stand by until further notice.

3. The estimated dollar cost, if any, of the protested Work and a detailed breakdown showing how that estimate was determined.

In an effort to expedite this cost issue Marshbank has detailed the immediate impacts to only Project Manager, Project Engineer, and halftime Superintendent. See attached daily breakdown showing **\$2,194.25** (1,675 with markup). These rates should match the presented office rates priced for comparison purposes to the first redesign Priced Change Order. If this cannot be agreed upon Marshbank reserves its rights to realize the full impacts i.e., Superintendent salary, office manager, office rental, ownership costs, clerical/timekeeping, vehicles, liability insurance, supplies, utilities etc. and continue the protest.

Marshbank requests **\$86,640.17** to cover direct costs beginning March 9, 2021 through March 17, 2021.

Additionally, Marshbank is providing a charged rate effective March 18, 2021 of a daily rate of **\$1,112.35** for equipment per day and **\$2,194.25** for office overhead per day for unrealized non-working equipment staged on this project and overhead costs being incurred by Marshbank Construction. The daily cost including both equipment standby and management is **\$3,306.60**. These costs will be incurred daily until work is able to be performed per production and schedule. Marshbank will be billing

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each of the calendar days affected this daily rate. As of this letter March 22, 2021, (3) workable calendar days have elapsed totaling **\$3,337.05**. This cost is ongoing and is not captured in the above sum until resolution and agreement for work to begin. As this is design delay is ongoing and the schedule impacts cannot be fully realized until production work begins including any added long lead supplier items such as structures the resulting schedule impacts are not known. BioClean charges **\$2,982.00** storage fees per month beginning April 1st. These costs will be bore by KPG/City of Tukwila along with the two cancellation charges outlined in the daily sheets.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue. In that these costs are occurring daily Marshbank requests a response by end of day tomorrow. If you have any questions or wish to discuss further please give me a call at your earliest convenience.

Sincerely,



Rob Gammell
Marshbank Construction

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Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

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CONSTRUCTION

Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507

March 9, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Differing Site Conditions
Serial Letter No. 5

Mr. North,

The purpose of this letter is for Marshbank Construction, Inc. (Marshbank Construction) to provide the City of Tukwila with formal notice pursuant to specification 1-04.7 – *Differing Site Conditions*. The changed condition is preventing Marshbank Construction from proceeding with scheduled Contract Work.

On March 8, 2021 Marshbank alerted onsite representatives from KPG and sent an immediate RFI, (RFI 014) regarding the discovery via locate paint, of an assumed communication duct bank running north and south potentially resulting in conflicts for the first order of work activities.

Marshbank Construction's schedule shows potholing and excavation in the first week. The three-week look ahead provided Friday (March 5, 2021) before any known issues illustrated a more detailed breakdown of work including saw-cutting beginning March 9, 2021 and related prep work for the storm activity. Based on the email direction received from KPG yesterday at 4:44 pm, Marshbank was instructed to postpone saw-cutting the trench in its entirety in direct contrast to how Marshbank bid the project. Marshbank had to adjust the saw-cutting activity entirely to focus on potholing per direction for furnishing information to KPG designers. (March 8, 2021 email 4:44 pm) Marshbank did not price each pothole (6) per proposal quantity for specialty sawcut minimum footages, opposed to economy of scale in slurry and dump daily charges, and should have been able to remove hardscapes directly behind the saw-cutting activity.

Marshbank has missed the opportunity to utilize the crew with concurrent work including to tandem walk behind saws and a Marshbank employee behind each for slurry collection, as the hardscape employees remove the top layers to subgrade ahead, during, and beyond the vector truck potholing. Marshbank under direction and approval by KPG has identified (13-14) potholes at the time of writing this letter or 233% of the bid proposal that are desired for information at this time. Marshbank did not realize this in their bid price. This change affects items including but not limited to vector time, distance, dump quantity, crew size, inefficiency, equipment standby, and all associated lump sum or fixed costs related to a working day.

Marshbank Construction continues to await direction from the City of Tukwila as it relates to this issue. Marshbank understands the City of Tukwila and its representatives are working to provide direction. Once direction is received, Marshbank Construction will provide pricing for this change in a timely manner related to any design changes. As this work is changing daily, Marshbank Construction will track its direct costs associated with this change, on daily force account sheets and will submit to the City of Tukwila for reimbursement. Please let us know immediately if there are any objections to this.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue.

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Should you have any questions, I can be reached by phone at (425) 209-8225

Sincerely,

 Digitally signed by
Robert Gammell
Date: 2021.03.09
11:07:19-08'00'

Marshbank Construction Inc.

Rob Gammell

From: Matt North <matt@kpg.com>
Sent: Monday, March 8, 2021 4:44 PM
To: Rob Gammell; Alexa Henry; Ed Wagner; Ernie Hinds; Jacob Williams; Jeff Heglund; Patrick; Ryan Larson; Chris Rammage; Jason Tesdal; Daniel Clark; Nelson Davis; Ray Edralin
Cc: Kenton Wilde
Subject: RE: EMWO: RFI 014
Attachments: RFI 014 - Comm Line Locate Present.pdf; IMG_5114.jpg; IMG_5117.jpg; IMG_5118.jpg
Importance: High

Hello Rob,

Please postpone your saw-cutting as planned for tomorrow, keep the camera install on track at the intersection of S 81st Pl with Service Electric as planned.

The unknown Zayo lines in the center lane raise caution as indicated in the RFI as potential conflicts to the modular wetland structure #100.

Pothole the Zayo lines to be tracked as per each BI#42 to determine width and depth, report data to KPG so that KPG Design has information. Additional potholing for this unknown Zayo line is acceptable and needed for determining additional actions for the issued RFI #14. Once pothole data is received, KPG can advise and respond to the RFI.

I have change the subject line of this incoming email for tracking purposes to reference RFI #14.

Contact me with any questions or concerns on this direction.

Thanks!

Matt North
Resident Engineer

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Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

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From: Rob Gammell <rob@marshbankconst.com>

Sent: Monday, March 8, 2021 3:07 PM

To: Matt North <matt@kpg.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>

Rob Gammell

From: Matt North <matt@kpg.com>
Sent: Wednesday, March 17, 2021 6:21 PM
To: Patrick; Rob Gammell
Cc: Ernie Hinds; Ed Wagner; Alexa Henry; Ray Edralin; Jeff Heglund; Ryan Larson
Subject: RE: EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25 - initial RFI response

Follow Up Flag: Follow up
Flag Status: Flagged

Patrick & Rob,

As you are aware from onsite discussions, and following emergency locate of the 4 Inch Steel Conduit, is in Conflict with CB 25 and structure #100. KPG will be reviewing the design, and Marshbank will need to go on standby for the storm work revisions until further notice. Today as discussed will all be tracked as force account.

Design is feverishly working on a solution to the newly found line. The pothole of the structure #100 for tomorrow has been canceled. The 4" line does continue on to parallel the Structure #100 to the east, and the Zayo line on the west side only looks to have 9ft of separation. The shoring box to fix the structure #100 is needed as 12 to 13ft by 20 feet long.

With the newly found unmarked & unknown line, KPG does not see the structure #100 fitting in the window of space per the current design.

The storm work on East Marginal Way is on hold until further notice.

Contact me with any questions or concerns to this initial RFI #21 response.

Thanks!

Matt North
Resident Engineer

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Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

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From: Patrick <Patrick@marshbankconst.com>
Sent: Wednesday, March 17, 2021 9:40 AM
To: Matt North <matt@kpg.com>; Ed Wagner <edw@kpg.com>; Alexa Henry <alexa@kpg.com>; Ray Edralin <ray@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>

Cc: Rob Gammell <rob@marshbankconst.com>; Ernie Hinds <ernieh@marshbankconst.com>

Subject: EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25

See attached RFI 021, this is urgent as we have core drillers scheduled for the connection into CB 34 at 11:00 AM. Please provide direction as soon as possible.

Thank you,

Patrick Gleason

Project Engineer

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 754-3085 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

DAYS DIRECTLY IMPACTED

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 12,310.06
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 10,972.37
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 7,700.23
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 6,185.05
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 12,481.69

TOTAL \$ 60,780.42

ESC LUMP SUM ITEM

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 250.00

TOTAL \$ 1,750.00

PROJECT TTC

NO PRODUCTION WORK REALIZED	3/9/2021	1250
NO PRODUCTION WORK REALIZED	3/10/2021	1250
NO PRODUCTION WORK REALIZED	3/11/2021	1250
NO PRODUCTION WORK REALIZED	3/12/2021	1250
NO PRODUCTION WORK REALIZED	3/15/2021	1250
NO PRODUCTION WORK REALIZED	3/16/2021	1250
NO PRODUCTION WORK REALIZED	3/17/2021	1250

TOTAL \$ 8,750.00

DAILY OVERHEAD COST W/O MU	3/9/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/10/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/11/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/12/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/15/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/16/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/17/2021	\$ 2,194.25

TOTAL \$ 15,359.75

Grand Total 3/9 thru 3/17	\$ 86,640.17
---------------------------	--------------

Project Name: EMWVO STOPPAGE	Project No: 20119
Item No.:	Date: 3/9/2001

Description of Work:
 Focused crew on inefficient and adjusted potholing

LOCATION: STA LT RT

Prime Contractor: MCI Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
JUSTIN TRUMAN	DUMP	1.5	\$ 83.50		\$ 112.37	\$ 125.26
CAMERON HILL	VACT	6.5	\$ 84.94		\$ 114.50	\$ 552.09
SUBTOTAL - LABOR:						\$ 3,549.80
LABOR OVERHEAD & PROFIT @ 29.00%:						\$ 1,029.44
2% 1-09.6 (1) 2020 ADDITION:						\$ 71.00
LABOR TOTAL						\$ 4,650.24

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	4		\$ 115.22	\$ 26.26	\$ 460.88
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0061	6X4 18YD 70KGVW	1.5		\$ 73.36	\$ 12.76	\$ 110.04
MCI-0061.5	14.5-13	1.5		\$ 15.63	\$ 4.42	\$ 23.45
MCI-0080*	320 Vactor Truck	6.5		\$ 141.53	\$ 58.53	\$ 919.95
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 3,340.64
EQUIPMENT OVERHEAD & PROFIT @ 21%:						\$ 701.53
EQUIPMENT TOTAL						\$ 4,042.17

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Vactor Dump VPC	1	EA	110.00	\$ 110.00
RCSTC for Pothole Backfill	29.58	TON	8.50	\$ 251.43
Sawcut for potholes	1	LS	2,628.36	\$ 2,628.36
SUBTOTAL - MATERIALS:				\$ 2,989.79
MATERIALS MU @ 21%:				\$ 627.86
MATERIALS/SERVICE TOTAL				\$ 3,617.65
TOTAL:				\$ 12,310.06
TAX PERCENTAGE 0.00%:				\$ -
MTRL TAX ONLY 0.00%:				\$ -
SHEET TOTAL:				\$ 12,310.06

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

MARSHBANK CONSTRUCTION <small>Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507</small>		SHEET NO: 20118-01					
Project Name: EMWO STOPPAGE		Project No: 20119					
Item No.:		Date: 3/9/2001					
Description of Work: Focused crew on inefficient and adjusted potholing							
LOCATION: STA <input type="checkbox"/> LT <input type="checkbox"/> RT							
Prime Contractor: MCI		Sub-Contractor:					
LABOR							
NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT	
		HOURS	RATE	HOURS	RATE		
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56	
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WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05	
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67	
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83	
CAMERON HILL	VACT	8	\$ 84.94	1.5	\$ 114.50	\$ 851.25	
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34	
SUBTOTAL - LABOR:						\$ 4,413.04	
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,279.78	
2% 1-09.6 (1) 2020 ADDITION						\$ 88.26	
LABOR TOTAL						\$ 5,781.08	
EQUIPMENT							
EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88	
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Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96	
MCI-0080*	320 Vactor Truck	8		\$ 141.53	\$ 58.53	\$ 1,132.24	
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88	
SUBTOTAL - EQUIPMENT						\$ 3,880.32	
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 814.87	
EQUIPMENT TOTAL						\$ 4,695.19	
MATERIALS / SERVICE							
MATERIALS / SERVICE DESCRIPTION		QUANTITY	UNIT	PRICE	DOLLAR AMOUNT		
Vactor Dump VPC		1	EA	110.00	\$ 110.00		
Cancellation Fee Mid Structure		1	LS	300.00	\$ 300.00		
			LS		\$ -		
			LS		\$ -		
			LS		\$ -		
			LS		\$ -		
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.		SUBTOTAL - MATERIALS					\$ 410.00
		MATERIALS MU @ 21%					\$ 86.10
		MATERIALS/SERVICE TOTAL					\$ 496.10
		TOTAL:					\$ 10,972.37
		TAX PERCENTAGE					0.00%
MTRL TAX ONLY					0.00%	\$ -	
SHEET TOTAL:					\$ 10,972.37		

MARSHBANK

CONSTRUCTION
Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION						\$ 71.24
LABOR TOTAL						\$ 4,665.94

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0		8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5		8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi	0		8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi	0		8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 743.44	
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 156.12	
EQUIPMENT TOTAL					\$ 899.56	

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	MATERIALS/SERVICE TOTAL	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
MTRL TAX ONLY 0.00%	\$ -	
SHEET TOTAL:		\$ 5,565.51

MARSHBANK

CONSTRUCTION
Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 71.24
LABOR TOTAL						\$ 4,665.94

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0		8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5		8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi	0		8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi	0		8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 743.44	
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 156.12	
EQUIPMENT TOTAL					\$ 899.56	

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	MATERIALS/SERVICE TOTAL	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
MTRL TAX ONLY 0.00%	\$ -	
SHEET TOTAL:		\$ 5,565.51

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: EMWO STOPPAGE

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA LT RT

Prime Contractor: MCI

Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
SUBTOTAL - LABOR:						\$ 1,839.28
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 533.39
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 36.79
LABOR TOTAL						\$ 2,409.46

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 2,748.08
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 577.10
EQUIPMENT TOTAL						\$ 3,325.18

MATERIALS / SERVICE

Subcontractors	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Northline Survey CO#1	1	LS	1,755.00	\$ 1,755.00
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS			\$ 1,755.00
	MATERIALS MU @ 12%			\$ 210.60
	MATERIALS/SERVICE TOTAL			\$ 1,965.60
	TOTAL:			\$ 7,700.23
	TAX PERCENTAGE 0.00%			\$ -
	MTRL TAX ONLY 0.00%			\$ -
SHEET TOTAL:				\$ 7,700.23

Project Name: **EMWO STOPPAGE**

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA LT RT

Prime Contractor: MCI

Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83

SUBTOTAL - LABOR: \$ 2,183.11

LABOR OVERHEAD & PROFIT @ 29.00% \$ 633.10

2% 1-09.6 (1) 2020 ADDITION 2.00% \$ 43.66

LABOR TOTAL \$ 2,859.87

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88

SUBTOTAL - EQUIPMENT \$ 2,748.08

EQUIPMENT OVERHEAD & PROFIT @ 21% \$ 577.10

EQUIPMENT TOTAL \$ 3,325.18

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	DOLLAR AMOUNT
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

SUBTOTAL - MATERIALS \$ -

MATERIALS MU @ 21% \$ -

MATERIALS/SERVICE TOTAL \$ -

TOTAL: \$ 6,185.05

TAX PERCENTAGE 0.00% \$ -

MTRL TAX ONLY 0.00% \$ -

SHEET TOTAL: \$ 6,185.05

MARSHBANK

CONSTRUCTION
 Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
PAM ERICSON	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
JSUTIN TRUMAN	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
SUBTOTAL - LABOR:						\$ 4,647.35
LABOR OVERHEAD & PROFIT @ 29.00%:						\$ 1,347.73
2% 1-09.6 (1) 2020 ADDITION:						\$ 92.95
LABOR TOTAL						\$ 6,088.03

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0075	DROP 4 80	6.5		\$ 30.32	\$ 8.54	\$ 197.08
MCI-0076	4X2 25KGVW DSL	6.5		\$ 29.75	\$ 5.04	\$ 193.38
MCI-0061	6X4 18YD 70KGVW	6.5		\$ 73.36	\$ 12.76	\$ 476.84
MCI-0061.5	14.5-13	6.5		\$ 15.63	\$ 4.42	\$ 101.60
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 3,716.98
EQUIPMENT OVERHEAD & PROFIT @ 21%:						\$ 780.57
EQUIPMENT TOTAL						\$ 4,497.55

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
CSBC for Directed Backfill of Trench	90.74	TON	8.50	\$ 771.29
Short Load Dirt Dump	13.05	TON	15.00	\$ 195.75
Asphalt & Concrete Dump	20	CY	15.00	\$ 300.00
CANCELLATION FEE MOD STRUCTURE	1	LS	300.00	\$ 300.00
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.				SUBTOTAL - MATERIALS	\$ 1,567.04	
				MATERIALS MU @ 21%		\$ 329.08
				MATERIALS/SERVICE TOTAL		\$ 1,896.12
				TOTAL:		\$ 12,481.69
				TAX PERCENTAGE		\$ -
MTRL TAX ONLY		\$ -				
				SHEET TOTAL:	\$ 12,481.69	

MARSHBANK

CONSTRUCTION
 Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20118**
 Item No.: Date:

Description of Work:
 DAILY EQUIPMENT STAND BY

LOCATION: STA LT RT

Prime Contractor: MCI Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE		\$ 89.76		\$ 122.51	\$ -
ROYCE JOHANNES	OPER		\$ 86.17		\$ 112.35	\$ -
WILLIAM LINDSTROM	PIP		\$ 63.01		\$ 86.63	\$ -
WILLIAM WATKINS	GEN		\$ 61.83		\$ 84.90	\$ -
TAYLOR KILLIAN	LAB60		\$ 42.98		\$ 56.82	\$ -
TIMOTHY PELTIER	OPER		\$ 86.17		\$ 112.35	\$ -
PAM ERICSON	DUMP		\$ 83.50		\$ 112.37	\$ -
JSUTIN TRUMAN	DUMP		\$ 83.50		\$ 112.37	\$ -
SUBTOTAL - LABOR:						\$ -
LABOR OVERHEAD & PROFIT @ 29.00%						\$ -
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ -
LABOR TOTAL						\$ -

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL		\$ 15.36	\$ 3.01	\$ -
MCI-3016	WA320-7	8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2	8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11	8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0	8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5	8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Sh	0	8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Sh	0	8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0075	DROP 4 80	6.5	\$ 30.32	\$ 8.54	\$ 55.51
MCI-0076	4X2 25KGVW DSL	6.5	\$ 29.75	\$ 5.04	\$ 32.76
MCI-0061	6X4 18YD 70KGVW	6.5	\$ 73.36	\$ 12.76	\$ 82.94
MCI-0061.5	14.5-13	6.5	\$ 15.63	\$ 4.42	\$ 28.73
MCI-0522	8X16	8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 919.30
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 193.05
EQUIPMENT TOTAL					\$ 1,112.35

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		TON		\$ -
		TON		\$ -
		CY		\$ -
SUBTOTAL - MATERIALS:				\$ -
MATERIALS MU @ 21%				\$ -
MATERIALS/SERVICE TOTAL				\$ -
TOTAL:				\$ 1,112.35
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
SHEET TOTAL:				\$ 1,112.35

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

Cost for Item 460

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 460 CLIENT# = 46										
Description = DAILY MANG COST Unit = DAY Takeoff Quan: 1.000 Engr Quan: 1.000										
10001	ADDITIONAL MANAGEMENT-TRACKING CHAN		Quan: 1.00 LS		Hrs/Shft: 8.00	Cal: 508	WC: NONE			
<u>SUP01</u>	Superintendent		8.00 CH	Prod: 1.0000 S	Lab Pcs:	2.50	Eqp Pcs:	2.50	**Unreviewed	
8TRPU	Pick up	2.00	16.00 HR	15.330		245		245		
8TRSUPT	Truck-Supt.-PM-Est.(No	0.50	4.00 HR	17.520		70		70		
SUG	Superintendent-(General)	0.50	4.00 MH	66.520	402			402		
SUPENG	Project Engineer	1.00	8.00 MH	37.000	412			412		
SUPM	Project Manager	1.00	8.00 MH	50.500	546			546		
\$1,674.70	20.0000 MH/LS		20.00 MH	[966.08]	1,359			315		1,675
=====> Item Totals: 460 - DAILY MANG COST										
\$1,674.70	20.0000 MH/DAY		20.00 MH	[966.08]	1,359			315		1,675
1,674.700	1 DAY				1,359.34			315.36		1,674.70
\$1,674.70	*** Report Totals ***		20.00 MH		1,359			315		1,675



Surveying and Construction Technologies
 2025 Riverside Drive, Suite D
 Mount Vernon, WA 98273

Invoice

Date	3/17/2021
Invoice #	21.09-01

Bill To
Marshbank Construction Po Box 97 Lake Stevens, WA 98258

Project Name	21.09 East Marginal Way Outfall Storm...	
	GC Proj. #	
	NLS Proj. #	21-09
	Contract #	

Bid Item	Scope	LS Value	Prev. %	Prev. Amt	Total %	Current Co...
Construction Surveying Control	Establish Survey Control Project Network	918.00			100.00%	918.00
Site Preparation Staking	Site Preparation Staking	432.00			100.00%	432.00
Storm Staking	Storm Staking	1,782.00			50.00%	891.00
	Bid Item:	5,400.00			41.50%	2,241.00
Change Order #01	Storm Revisions	1,755.00			100.00%	1,755.00
	~~~~ CHANGE ORDER ~~~~~ March 17, 2021 > Added 1 Change Order #01. (+\$1,755.00) > Added 1 Change Order #02. (+\$1,200.00) Total change to estimate +\$2,717.50 ~~~~~					
						3,996.00
Retention (5%)						-199.80

<b>Total</b>	\$3,796.20
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$3,796.20

**Salinas Sawing & Sealing, Inc.**

7804 40th Ave W.  
Mukilteo, WA 98275

**Invoice**

Date	Invoice #
3/9/2021	33689

Bill To
MARSHBANK CONSTRUCTION P.O. BOX 97 LAKE STEVENS, WA 98258-0097

Ship To
E. MARGINAL WAY OUTFALL STORMWATER RETROFIT PROJECT CITY OF TUKWILA MCI PROJECT 20118 PR-1729

P.O. No.	Terms	Due Date	Project	Our Job No.
	Net 30	4/8/2021	21-9415 E. Marginal Way...	21-9415
Item	Description	Quantity	Rate	Amount
300	Asphalt Demo- 9"	228	2.34	533.52
600	Concrete Demo- 7" (16" TD)	228	4.90	1,117.20
825	Standby Time Per Hour	1.5	120.00	180.00
300	Asphalt Demo- 9"	86	2.34	201.24
600	Concrete Demo- 7" (16" TD)	86	4.90	421.40
750	Slurry Vacuum Equip & Disposal		175.00	175.00
Work Completed 03/09/2021 (W.O. 53197)				
Office:(425) 745-0706 Fax:(425) 745-0628			<b>Total</b>	\$2,628.36

Bid Item	Description	Quantity	Unit	Amount
2	<b>Temporary Water Pollution/Erosion Control</b>	1	LS	\$15,000.00
	Initial TESC setup	1	LS	\$5,000.00
	TESC Daily Rate	60	Day	\$166.67
5	<b>Project Temporary Traffic Control</b>	1	LS	\$75,000.00
	Initial traffic control set up	1	LS	\$15,000.00
	Traffic control daily rate	60	Day	\$1,000.00
6	<b>Removal of Structures &amp; Obstructions</b>	1	LS	\$20,000.00
	Saw cutting 2+25 - 15+30	1	LS	\$8,000.00
	Removal of hardscapes 2+25 - 15+30	1	LS	\$4,000.00
	Saw cutting 16+80 - 21+10	1	LS	\$4,000.00
	Removal of hardscapes 16+80 - 21+10	1	LS	\$4,000.00
39	<b>Pump Station Complete</b>	1	LS	\$80,000.00
	Excavation, grading, and installing structure 19	1	LS	\$45,000.00
	Procurement of electrical components	1	LS	\$22,500.00
	Instillation of conduit boxes and wiring	1	LS	\$7,500.00
	Training for pump station	1	LS	\$5,000.00
40	<b>Stormwater Media Filer</b>	1	LS	\$65,000.00
	Excavation, grading, and installing structure 100	1	LS	\$60,000.00
	Instillation of modular wetland media	1	LS	\$5,000.00
43	<b>Traffic Signal Modifications</b>	1	LS	\$21,200.00
	Procurement of materials	1	LS	\$2,120.00
	Instillation of materials	1	LS	\$20,000.00

Submittal Approval Codes	
	NET - No Exceptions Taken
	<b>RAR - Revise and Resubmit</b>
X	CA - Conditionally Approved, See Comments
	<b>CA - Conditionally Approved, Make Corrections</b>
	REJ - Rejected See Comments

Reviewer Comments:

Lump Sum Breakdown is approved for items included within.

Additionally, bid item #3 for "mobilization" will be processed per WSDOT Spec 1-09.7

*J. Matt North* 03/04/2021



**Cc:** Kenton Wilde <Kenton@marshbankconst.com>

**Subject:** RE: EMWO: Weekly Progress Meeting - Link to MS Teams meetings.

**Importance:** High

Please see attached RFI 014. This is time sensitive by tomorrow a.m. Photos attached for reference.

Thank you

Rob Gammell

**Marshbank Construction, Inc.**

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 209-8225 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

## Rob Gammell

---

**Subject:** FW: BIO CLEAN STORAGE

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**From:** Daryl.Clark@Ferguson.com <Daryl.Clark@Ferguson.com>  
**Sent:** Thursday, March 18, 2021 4:18 PM  
**To:** Patrick <Patrick@marshbankconst.com>  
**Cc:** Rob Gammell <rob@marshbankconst.com>; PANDORA_6@MSN.COM  
**Subject:** BIO CLEAN STORAGE

Patrick,  
I guess there serious about storage. I thought a few hundred bucks. See below Bio Clean comments. Also a \$300 double cancellation fee to the owner.  
Please advise on PO or cost code to use for billing.  
Thank you.  
Daryl Clark

Hope you are doing well. The East Marginal Way Outfall shipment has been cancelled a couple times this month. We do not have room to store this unit after 30 days from completion, which would be March 24th. Will the contractor be able to take this unit by March 31st? We will need to begin charging storage fees of \$2982 per month on April 1st. Hopefully the fees can be avoided by the contractor taking the unit before March 31st. Thanks for your help.



Jeff Pierce  
Regional Sales Manager  
Pacific Northwest

# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

March 30, 2021

Matt North, R.E  
KPG  
2502 Jefferson Ave  
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project  
Agreement No. WQC-2016-Tukwil-00132  
Supplemental Information  
Serial Letter No. 8.1 Additional Info Request 3-30-21

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notice of differing site conditions and our interpretation of direction given by KPG to postpone saw-cutting and tracking efforts during redesign for consequential delays.

### ***1. The date and nature of the protested order, direction, instruction, interpretation or determination***

Marshbank Construction Inc. (Marshbank) is providing this supplemental information related to serial letter No.005 (Differing Site Conditions). The purpose of this information is to provide all known direct costs associated with this delay arising from March 9, 2021 through March 17, 2021. These costs have been compiled with the expectation for prompt payment related to the issue. The two issues are the bio retention sidewalk area and the storm activity both in redesign and on hold until further notice at the current expense of Marshbank.

### ***2.A full discussion of the circumstances which caused the protest, including names of persons involved, time, duration and nature of Work involved, and a review of the Plans and Contract Provisions referenced to support the protest.***

#### Persons Involved:

- Marshbank Construction
  - Rob Gammell (Project Manager)
  - Ernest Hinds (Superintendent)
  - Patrick Gleason (Project Engineer)
  - Chris Rammage. (Foreman)
- City of Tukwila and its representatives
  - Matt North (KPG-Resident Engineer)
  - Alexa Henry (Construction Services)
  - Ed Wagner (Lead Inspector)
  - Ray Larson (City of Tukwila-Project Manager)
- KPG Design
  - William R. Edralin (Design Engineer/Final Stamp)

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# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

### Relevant Timeline of Events:

On March 3, 2021, Marshbank visited the site for initial locate boundary markings. Once onsite it appeared that a potential scaling issue was present for the sidewalk area regarding the bioretention zone after a cursory site walk. Marshbank requested a meeting for an onsite visit with KPG/City of Tukwila to discuss existing conditions in contrast to the plans. This meeting was held on March 4, 2021 and present for this meeting was Rob Gammell (MCI PM), Ernie Hinds (MCI Superintendent), Ed Wagner (KPG Lead Inspector), Matt North (KPG, RE), Ryan Larson (Tukwila PM). Marshbank brought to attention questions about the design vs actual field conditions before mobilization occurred. Marshbank agreed to follow up immediately with an RFI illustrating the issues combined with site photos.

The same day as March 4, 2021, Marshbank sent an immediate RFI (#011) identifying both differing site conditions along with photos for easy interpretation of the issue. Specifically showing how the as-bid detail showed an existing 6" concrete area for doweling into a planned vertical wall appeared to be a thin questionable condition asphalt present. This was in addition to a horizontal issue for existing sidewalk area in regards to tree pits not able to retain a permanent 6' walkway.

No immediate answer or timeline for redesigning the section of work "bioretention sidewalk area" was given. Marshbank was not notified to delay mobilization in any manner at this time and mobilizes for work on March 8, 2021. As Marshbank is in the process of mobilizing equipment and laying out sawcut behind the survey pins per plan. It appeared onsite that another vault lid was in the center turn lane absent of definitive markings where future storm is to be installed. This did not have sufficient informative locate marks to Marshbank's acceptance and another locate specific call via 811 is generated by Marshbank to clarify the identifiers. Marshbank brought to KPG's attention the locate paint indicating a communication line roughly 3' wide in the future storm alignment which is not shown on the plan documents. In expedited fashion and on the same day Marshbank immediately sent an RFI (#014) requesting direction and alerting KPG of the "time sensitive issue". KPG responds at 4:44 pm with a direction of a work stoppage order and consider this a response to RFI #014. This resulted in added potholes directed by KPG for further design investigation. Both the issue of the sidewalk bioretention area needing to be redesigned and the gravity/force main activity resulted in work stopping design issues which kept Marshbank from being in any manner productive. This displaced the crew, and focused on potholing both overstaffed and inefficient while sacrificing concurrent work as bid.

The first weekly meeting is attended virtually by the project team and Marshbank transmitted serial letter #05 on the same day March 9, 2021 which formally notified KPG and the City of Tukwila of the communication line differing site condition present. The intent of this notification in conjunction with the discussion in the weekly meeting was to alert KPG/Tukwila of the various design issues brought forward and how Marshbank intends to track these issue(s) via force account until production work as bid can be realized. Marshbank made sure to state in serial letter No. 5 the issue of bid item potholing due to the changed conditions for critical stoppage. As detailed in said serial letter for the crew being dedicated for potholing materially changed the way we priced and the quantity of each pothole.

3/9/2021 – Complete loss of production. After the work stopping direction, crew exclusively worked on all potholes including added quantities never quantified in the per each proposal price. Marshbank bid the project to concurrently sawcut with slurry collection laborers (MCI crew members) while hardscape was being stripped and hauled off to waste site. This would allow clear and unobstructed access for (1) vactor truck to pothole the proposal quantity (6). Marshbank thus had to pivot from this means and methods to a focused (5) man crew exclusively on ~13 potholes and a minimum sawcut charge.

The following remaining timeline dates have been itemized for ease of reading.

3/10/2021 – Complete loss of production. KPG responds to RFI (#014) stating that KPG understands they have added potholes and will agree to track for fair and equitable agreement. By 2:56 pm Marshbank provides all data from potholing as directed via email.

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# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

3/11/2021 – Complete loss of production and displaced crew.

3/11/2021 (10:08am) -Marshbank provides surveyor rates for T&M for KPG's records.

3/11/2021 (10:36am) – KPG send redesign plan requesting rapid scheduling of survey and saw-cutting.

3/12/2021 – Complete loss of production and displaced crew.

3/15/2021 – Small crew supporting survey with traffic control and assisting layout for saw-cutting the next day. Complete loss of any critical path work.

3/16/2021 – Complete loss of production. Crew beginning to assist saw-cutting out of sequence, no work completed in the manner bid.

3/17/2021 – Complete loss of production and working on track force account as accepted forward price still outstanding. Crew began hardscape stripping and excavation for structure #25. Encountered a 4" potentially known (KPG Plan Set show FO) in the area of excavation in direct conflict with the structure/shoring box. Seemingly from the redesign shifting from a clear separation to overlap of said conduit.

3/17/2021 – Related to RFI and initial pricing sent for the redesign Marshbank encounters sand encroaching into preliminary excavation. No inspector onsite at this time. Email notification with time and pictures sent to KPG (8:46 am)

3/17/2021 – (9:37 am) Marshbank immediately notifies KPG onsite as well as RFI (#021)

3/17/2021 - (6:21 pm) KPG send email restating onsite discussions for tracking the entire day as lost production and reimbursement via force account. "The storm work on East Marginal Way is on hold until further notice."

3/18/2021 - No production. Equipment on standby.

3/19/2021 - No production. Equipment on standby.

3/19/2021 – Marshbank's baseline schedule approved "NET"

3/22/2021 – Stand by until further notice.

### **3. The estimated dollar cost, if any, of the protested Work and a detailed breakdown showing how that estimate was determined.**

In an effort to expedite this cost issue Marshbank has detailed the immediate impacts to only Project Manager, Project Engineer, and halftime Superintendent. See attached daily breakdown showing **\$2,194.25** (1,675 with markup). These rates should match the presented office rates priced for comparison purposes to the first redesign Priced Change Order. If this cannot be agreed upon Marshbank reserves its rights to realize the full impacts i.e., Superintendent salary, office manager, office rental, ownership costs, clerical/timekeeping, vehicles, liability insurance, supplies, utilities etc. and continue the protest.

Marshbank requests **\$86,640.17** to cover direct costs beginning March 9, 2021 through March 17, 2021.

Additionally, Marshbank is providing a charged rate effective March 18, 2021 of a daily rate of **\$1,112.35** for equipment per day and **\$2,194.25** for office overhead per day for unrealized non-working equipment staged on this project and overhead costs being incurred by Marshbank Construction. The daily cost including both equipment standby and management is **\$3,306.60**. These costs will be incurred daily until work is able to be performed per production and schedule. Marshbank will be billing

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# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

each of the calendar days affected this daily rate. As of our goal of resuming changed work April 5, 2021, yields (12) workable calendar days have elapsed totaling **\$39,679.20**. This cost is ongoing and is not captured in the above sum until resolution and agreement for work to begin. As this is design delay is ongoing and the schedule impacts cannot be fully realized until production work begins including any added long lead supplier items such as structures the resulting schedule impacts are not known. BioClean charges **\$2,982.00** storage fees per month beginning April 1st. These costs will be bore by KPG/City of Tukwila along with the two cancellation charges outlined in the daily sheets.

As of April 5, 2021 City responsibility of costs:

3/09/2021 to 3/17/2021 - Impacts	<b>\$86,640.17</b>
3/18/2021 to 4/02/2021 - Daily Standby	<b>\$39,769.20</b>
BioClean Storage – April 1 st Charge	<b>\$2,194.25.</b>

Total Direct Impacts Assumed thru April 2, 2021 **\$128,513.62**. Please note potholing extra work performed on 3/27/21 is not include in this summary as it was separate design informational work with still a loss production day.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue. In that these costs are occurring daily Marshbank requests a response by end of day tomorrow. If you have any questions or wish to discuss further please give me a call at your earliest convenience.

Sincerely,



Rob Gammell  
Marshbank Construction

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Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

March 22, 2021

Matt North, R.E  
KPG  
2502 Jefferson Ave  
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project  
Agreement No. WQC-2016-Tukwil-00132  
Supplemental Information  
Serial Letter No. 8

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notice of differing site conditions and our interpretation of direction given by KPG to postpone saw-cutting and tracking efforts during redesign for consequential delays.

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# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBEMBE No. D1M0011507

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PO Box 97, Lake Stevens WA 98258



# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHC1-05106 / DBE/MBE No. DIM0011507

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In an effort to expedite this cost issue Marshbank has detailed the immediate impacts to only Project Manager, Project Engineer, and halftime Superintendent. See attached daily breakdown showing **\$2,194.25** (1,675 with markup). These rates should match the presented office rates priced for comparison purposes to the first redesign Priced Change Order. If this cannot be agreed upon Marshbank reserves its rights to realize the full impacts i.e., Superintendent salary, office manager, office rental, ownership costs, clerical/timekeeping, vehicles, liability insurance, supplies, utilities etc. and continue the protest.

Marshbank requests **\$86,640.17** to cover direct costs beginning March 9, 2021 through March 17, 2021.

Additionally, Marshbank is providing a charged rate effective March 18, 2021 of a daily rate of **\$1,112.35** for equipment per day and **\$2,194.25** for office overhead per day for unrealized non-working equipment staged on this project and overhead costs being incurred by Marshbank Construction. The daily cost including both equipment standby and management is **\$3,306.60**. These costs will be incurred daily until work is able to be performed per production and schedule. Marshbank will be billing

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# MARSHBANK

## CONSTRUCTION

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each of the calendar days affected this daily rate. As of this letter March 22, 2021, (3) workable calendar days have elapsed totaling **\$3,337.05**. This cost is ongoing and is not captured in the above sum until resolution and agreement for work to begin. As this is design delay is ongoing and the schedule impacts cannot be fully realized until production work begins including any added long lead supplier items such as structures the resulting schedule impacts are not known. BioClean charges **\$2,982.00** storage fees per month beginning April 1st. These costs will be bore by KPG/City of Tukwila along with the two cancellation charges outlined in the daily sheets.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue. In that these costs are occurring daily Marshbank requests a response by end of day tomorrow. If you have any questions or wish to discuss further please give me a call at your earliest convenience.

Sincerely,



Rob Gammell  
Marshbank Construction

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PO Box 97, Lake Stevens WA 98258

# MARSHBANK

## CONSTRUCTION

Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507

March 9, 2021

Matt North, R.E  
KPG  
2502 Jefferson Ave  
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project  
Agreement No. WQC-2016-Tukwil-00132  
Differing Site Conditions  
Serial Letter No. 5

Mr. North,

The purpose of this letter is for Marshbank Construction, Inc. (Marshbank Construction) to provide the City of Tukwila with formal notice pursuant to specification 1-04.7 – *Differing Site Conditions*. The changed condition is preventing Marshbank Construction from proceeding with scheduled Contract Work.

On March 8, 2021 Marshbank alerted onsite representatives from KPG and sent an immediate RFI, (RFI 014) regarding the discovery via locate paint, of an assumed communication duct bank running north and south potentially resulting in conflicts for the first order of work activities.

Marshbank Construction's schedule shows potholing and excavation in the first week. The three-week look ahead provided Friday (March 5, 2021) before any known issues illustrated a more detailed breakdown of work including saw-cutting beginning March 9, 2021 and related prep work for the storm activity. Based on the email direction received from KPG yesterday at 4:44 pm, Marshbank was instructed to postpone saw-cutting the trench in its entirety in direct contrast to how Marshbank bid the project. Marshbank had to adjust the saw-cutting activity entirely to focus on potholing per direction for furnishing information to KPG designers. (March 8, 2021 email 4:44 pm) Marshbank did not price each pothole (6) per proposal quantity for specialty sawcut minimum footages, opposed to economy of scale in slurry and dump daily charges, and should have been able to remove hardscapes directly behind the saw-cutting activity.

Marshbank has missed the opportunity to utilize the crew with concurrent work including to tandem walk behind saws and a Marshbank employee behind each for slurry collection, as the hardscape employees remove the top layers to subgrade ahead, during, and beyond the vector truck potholing. Marshbank under direction and approval by KPG has identified (13-14) potholes at the time of writing this letter or 233% of the bid proposal that are desired for information at this time. Marshbank did not realize this in their bid price. This change affects items including but not limited to vector time, distance, dump quantity, crew size, inefficiency, equipment standby, and all associated lump sum or fixed costs related to a working day.

Marshbank Construction continues to await direction from the City of Tukwila as it relates to this issue. Marshbank understands the City of Tukwila and its representatives are working to provide direction. Once direction is received, Marshbank Construction will provide pricing for this change in a timely manner related to any design changes. As this work is changing daily, Marshbank Construction will track its direct costs associated with this change, on daily force account sheets and will submit to the City of Tukwila for reimbursement. Please let us know immediately if there are any objections to this.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue.

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# MARSHBANK

## CONSTRUCTION

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Should you have any questions, I can be reached by phone at (425) 209-8225

Sincerely,

 Digitally signed by  
Robert Gammell  
Date: 2021.03.09  
11:07:19-08'00'

Marshbank Construction Inc.

## Rob Gammell

---

**From:** Matt North <matt@kpg.com>  
**Sent:** Monday, March 8, 2021 4:44 PM  
**To:** Rob Gammell; Alexa Henry; Ed Wagner; Ernie Hinds; Jacob Williams; Jeff Heglund; Patrick; Ryan Larson; Chris Rammage; Jason Tesdal; Daniel Clark; Nelson Davis; Ray Edralin  
**Cc:** Kenton Wilde  
**Subject:** RE: EMWO: RFI 014  
**Attachments:** RFI 014 - Comm Line Locate Present.pdf; IMG_5114.jpg; IMG_5117.jpg; IMG_5118.jpg  
**Importance:** High

Hello Rob,

Please postpone your saw-cutting as planned for tomorrow, keep the camera install on track at the intersection of S 81st Pl with Service Electric as planned.

The unknown Zayo lines in the center lane raise caution as indicated in the RFI as potential conflicts to the modular wetland structure #100.

Pothole the Zayo lines to be tracked as per each BI#42 to determine width and depth, report data to KPG so that KPG Design has information. Additional potholing for this unknown Zayo line is acceptable and needed for determining additional actions for the issued RFI #14. Once pothole data is received, KPG can advise and respond to the RFI.

I have change the subject line of this incoming email for tracking purposes to reference RFI #14.

Contact me with any questions or concerns on this direction.

Thanks!

**Matt North**  
Resident Engineer

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**Interdisciplinary Design**

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

[www.kpg.com](http://www.kpg.com)



---

**From:** Rob Gammell <rob@marshbankconst.com>

**Sent:** Monday, March 8, 2021 3:07 PM

**To:** Matt North <matt@kpg.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>

## Rob Gammell

---

**From:** Matt North <matt@kpg.com>  
**Sent:** Wednesday, March 17, 2021 6:21 PM  
**To:** Patrick; Rob Gammell  
**Cc:** Ernie Hinds; Ed Wagner; Alexa Henry; Ray Edralin; Jeff Heglund; Ryan Larson  
**Subject:** RE: EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25 - initial RFI response

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Patrick & Rob,

As you are aware from onsite discussions, and following emergency locate of the 4 Inch Steel Conduit, is in Conflict with CB 25 and structure #100. KPG will be reviewing the design, and Marshbank will need to go on standby for the storm work revisions until further notice. Today as discussed will all be tracked as force account.

Design is feverishly working on a solution to the newly found line. The pothole of the structure #100 for tomorrow has been canceled. The 4" line does continue on to parallel the Structure #100 to the east, and the Zayo line on the west side only looks to have 9ft of separation. The shoring box to fix the structure #100 is needed as 12 to 13ft by 20 feet long.

With the newly found unmarked & unknown line, KPG does not see the structure #100 fitting in the window of space per the current design.

The storm work on East Marginal Way is on hold until further notice.

Contact me with any questions or concerns to this initial RFI #21 response.

Thanks!

**Matt North**  
Resident Engineer

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**Interdisciplinary Design**

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

[www.kpg.com](http://www.kpg.com)



---

**From:** Patrick <Patrick@marshbankconst.com>  
**Sent:** Wednesday, March 17, 2021 9:40 AM  
**To:** Matt North <matt@kpg.com>; Ed Wagner <edw@kpg.com>; Alexa Henry <alexa@kpg.com>; Ray Edralin <ray@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>

**Cc:** Rob Gammell <rob@marshbankconst.com>; Ernie Hinds <ernieh@marshbankconst.com>

**Subject:** EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25

See attached RFI 021, this is urgent as we have core drillers scheduled for the connection into CB 34 at 11:00 AM. Please provide direction as soon as possible.

Thank you,

Patrick Gleason

Project Engineer

**Marshbank Construction, Inc.**

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 754-3085 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

**DAYS DIRECTLY IMPACTED**

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 12,310.06
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 10,972.37
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 7,700.23
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 6,185.05
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 12,481.69

TOTAL \$ **60,780.42**

**ESC LUMP SUM ITEM**

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 250.00

TOTAL \$ **1,750.00**

**PROJECT TTC**

NO PRODUCTION WORK REALIZED	3/9/2021	1250
NO PRODUCTION WORK REALIZED	3/10/2021	1250
NO PRODUCTION WORK REALIZED	3/11/2021	1250
NO PRODUCTION WORK REALIZED	3/12/2021	1250
NO PRODUCTION WORK REALIZED	3/15/2021	1250
NO PRODUCTION WORK REALIZED	3/16/2021	1250
NO PRODUCTION WORK REALIZED	3/17/2021	1250

TOTAL \$ **8,750.00**

DAILY OVERHEAD COST W/O MU	3/9/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/10/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/11/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/12/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/15/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/16/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/17/2021	\$ 2,194.25

TOTAL \$ **15,359.75**

Grand Total 3/9 thru 3/17	\$ <b>86,640.17</b>
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Project Name: <b>EMWVO STOPPAGE</b>	Project No: <b>20119</b>
Item No.:	Date: <b>3/9/2001</b>

Description of Work:  
 Focused crew on inefficient and adjusted potholing

LOCATION: STA  LT  RT

Prime Contractor: MCI Sub-Contractor:

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
JUSTIN TRUMAN	DUMP	1.5	\$ 83.50		\$ 112.37	\$ 125.26
CAMERON HILL	VACT	6.5	\$ 84.94		\$ 114.50	\$ 552.09
SUBTOTAL - LABOR:						\$ 3,549.80
LABOR OVERHEAD & PROFIT @ 29.00%:						\$ 1,029.44
2% 1-09.6 (1) 2020 ADDITION:						\$ 71.00
<b>LABOR TOTAL</b>						<b>\$ 4,650.24</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	4		\$ 115.22	\$ 26.26	\$ 460.88
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0061	6X4 18YD 70KGVW	1.5		\$ 73.36	\$ 12.76	\$ 110.04
MCI-0061.5	14.5-13	1.5		\$ 15.63	\$ 4.42	\$ 23.45
MCI-0080*	320 Vactor Truck	6.5		\$ 141.53	\$ 58.53	\$ 919.95
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 3,340.64
EQUIPMENT OVERHEAD & PROFIT @ 21%:						\$ 701.53
<b>EQUIPMENT TOTAL</b>						<b>\$ 4,042.17</b>

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Vactor Dump VPC	1	EA	110.00	\$ 110.00
RCSTC for Pothole Backfill	29.58	TON	8.50	\$ 251.43
Sawcut for potholes	1	LS	2,628.36	\$ 2,628.36
SUBTOTAL - MATERIALS:				\$ 2,989.79
MATERIALS MU @ 21%:				\$ 627.86
<b>MATERIALS/SERVICE TOTAL</b>				<b>\$ 3,617.65</b>
TOTAL:				\$ 12,310.06
TAX PERCENTAGE 0.00%:				\$ -
MTRL TAX ONLY 0.00%:				\$ -
<b>SHEET TOTAL:</b>				<b>\$ 12,310.06</b>

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

MARSHBANK CONSTRUCTION <small>Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507</small>		SHEET NO: 20118-01					
Project Name: <b>EMWO STOPPAGE</b>		Project No: 20119					
Item No.:		Date: 3/9/2001					
Description of Work: Focused crew on inefficient and adjusted potholing							
LOCATION: STA <input type="checkbox"/> LT <input type="checkbox"/> RT							
Prime Contractor: MCI		Sub-Contractor:					
LABOR							
NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT	
		HOURS	RATE	HOURS	RATE		
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56	
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34	
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05	
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67	
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83	
CAMERON HILL	VACT	8	\$ 84.94	1.5	\$ 114.50	\$ 851.25	
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34	
SUBTOTAL - LABOR:						\$ 4,413.04	
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,279.78	
2% 1-09.6 (1) 2020 ADDITION						\$ 88.26	
<b>LABOR TOTAL</b>						<b>\$ 5,781.08</b>	
EQUIPMENT							
EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88	
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28	
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36	
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76	
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88	
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72	
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92	
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08	
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96	
MCI-0080*	320 Vactor Truck	8		\$ 141.53	\$ 58.53	\$ 1,132.24	
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88	
SUBTOTAL - EQUIPMENT						\$ 3,880.32	
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 814.87	
<b>EQUIPMENT TOTAL</b>						<b>\$ 4,695.19</b>	
MATERIALS / SERVICE							
MATERIALS / SERVICE DESCRIPTION		QUANTITY	UNIT	PRICE	DOLLAR AMOUNT		
Vactor Dump VPC		1	EA	110.00	\$ 110.00		
Cancellation Fee Mid Structure		1	LS	300.00	\$ 300.00		
			LS		\$ -		
			LS		\$ -		
			LS		\$ -		
			LS		\$ -		
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.		SUBTOTAL - MATERIALS					\$ 410.00
		MATERIALS MU @ 21%					\$ 86.10
		<b>MATERIALS/SERVICE TOTAL</b>					<b>\$ 496.10</b>
		TOTAL:					\$ 10,972.37
		TAX PERCENTAGE					0.00%
MTRL TAX ONLY					0.00%	\$ -	
<b>SHEET TOTAL:</b>						<b>\$ 10,972.37</b>	

**MARSHBANK**

CONSTRUCTION  
Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**  
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____  
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA  LT  RT

Prime Contractor: MCI Sub-Contractor: _____

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 71.24
<b>LABOR TOTAL</b>						<b>\$ 4,665.94</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi		0	8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi		0	8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT						\$ 743.44
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 156.12
<b>EQUIPMENT TOTAL</b>						<b>\$ 899.56</b>

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	<b>MATERIALS/SERVICE TOTAL</b>	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
	MTRL TAX ONLY 0.00%	\$ -
<b>SHEET TOTAL:</b>		<b>\$ 5,565.51</b>

**MARSHBANK**

CONSTRUCTION  
Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**  
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____  
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA  LT  RT

Prime Contractor: MCI Sub-Contractor: _____

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION						\$ 71.24
<b>LABOR TOTAL</b>						<b>\$ 4,665.94</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0		8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5		8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi	0		8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi	0		8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT					\$ 743.44	
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 156.12	
<b>EQUIPMENT TOTAL</b>					<b>\$ 899.56</b>	

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	<b>MATERIALS/SERVICE TOTAL</b>	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
MTRL TAX ONLY 0.00%	\$ -	
<b>SHEET TOTAL:</b>		<b>\$ 5,565.51</b>

# MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: EMWO STOPPAGE

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA  LT  RT

Prime Contractor: MCI

Sub-Contractor:

## LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
SUBTOTAL - LABOR:						\$ 1,839.28
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 533.39
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 36.79
<b>LABOR TOTAL</b>						<b>\$ 2,409.46</b>

## EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 2,748.08
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 577.10
<b>EQUIPMENT TOTAL</b>						<b>\$ 3,325.18</b>

## MATERIALS / SERVICE

Subcontractors	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Northline Survey CO#1	1	LS	1,755.00	\$ 1,755.00
SUBTOTAL - MATERIALS				\$ 1,755.00
MATERIALS MU @ 12%				\$ 210.60
<b>MATERIALS/SERVICE TOTAL</b>				<b>\$ 1,965.60</b>
TOTAL:				\$ 7,700.23
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
<b>SHEET TOTAL:</b>				<b>\$ 7,700.23</b>

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

Project Name: **EMWO STOPPAGE**

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA  LT  RT

Prime Contractor: MCI

Sub-Contractor:

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
SUBTOTAL - LABOR:						\$ 2,183.11
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 633.10
2% 1-09.6 (1) 2020 ADDITION						\$ 43.66
<b>LABOR TOTAL</b>						<b>\$ 2,859.87</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT						\$ 2,748.08
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 577.10
<b>EQUIPMENT TOTAL</b>						<b>\$ 3,325.18</b>

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	DOLLAR AMOUNT
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
SUBTOTAL - MATERIALS			\$ -
MATERIALS MU @ 21%			\$ -
<b>MATERIALS/SERVICE TOTAL</b>			<b>\$ -</b>
TOTAL:			\$ 6,185.05
TAX PERCENTAGE 0.00%			\$ -
MTRL TAX ONLY 0.00%			\$ -
<b>SHEET TOTAL:</b>			<b>\$ 6,185.05</b>

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<b>MARSHBANK</b> CONSTRUCTION <small>Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507</small>		SHEET NO: 20118-01				
Project Name: <b>EMWO STOPPAGE</b>		Project No: 20119				
Item No.:		Date: 3/9/2001				
Description of Work: Focused crew on inefficient and adjusted potholing						
LOCATION: STA <input type="checkbox"/> LT <input type="checkbox"/> RT						
Prime Contractor: MCI		Sub-Contractor:				
<b>LABOR</b>						
NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
PAM ERICSON	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
JSUTIN TRUMAN	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
SUBTOTAL - LABOR:						\$ 4,647.35
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,347.73
2% 1-09.6 (1) 2020 ADDITION						\$ 92.95
<b>LABOR TOTAL</b>						<b>\$ 6,088.03</b>
<b>EQUIPMENT</b>						
EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0075	DROP 4 80	6.5		\$ 30.32	\$ 8.54	\$ 197.08
MCI-0076	4X2 25KGVW DSL	6.5		\$ 29.75	\$ 5.04	\$ 193.38
MCI-0061	6X4 18YD 70KGVW	6.5		\$ 73.36	\$ 12.76	\$ 476.84
MCI-0061.5	14.5-13	6.5		\$ 15.63	\$ 4.42	\$ 101.60
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 3,716.98
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 780.57
<b>EQUIPMENT TOTAL</b>						<b>\$ 4,497.55</b>
<b>MATERIALS / SERVICE</b>						
MATERIALS / SERVICE DESCRIPTION		QUANTITY	UNIT	PRICE	DOLLAR AMOUNT	
CSBC for Directed Backfill of Trench		90.74	TON	8.50	\$ 771.29	
Short Load Dirt Dump		13.05	TON	15.00	\$ 195.75	
Asphalt & Concrete Dump		20	CY	15.00	\$ 300.00	
CANCELLATION FEE MOD STRUCTURE		1	LS	300.00	\$ 300.00	
			LS		\$ -	
			LS		\$ -	
SUBTOTAL - MATERIALS						\$ 1,567.04
MATERIALS MU @ 21%						\$ 329.08
<b>MATERIALS/SERVICE TOTAL</b>						<b>\$ 1,896.12</b>
TOTAL:						\$ 12,481.69
TAX PERCENTAGE						\$ -
MTRL TAX ONLY						\$ -
<b>SHEET TOTAL:</b>						<b>\$ 12,481.69</b>
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.						

Project Name: **EMWO STOPPAGE** Project No: **20118**  
 Item No.: _____ Date: _____

Description of Work:  
 DAILY EQUIPMENT STAND BY

LOCATION: _____ STA  LT  RT

Prime Contractor: MCI Sub-Contractor: _____

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE		\$ 89.76		\$ 122.51	\$ -
ROYCE JOHANNES	OPER		\$ 86.17		\$ 112.35	\$ -
WILLIAM LINDSTROM	PIP		\$ 63.01		\$ 86.63	\$ -
WILLIAM WATKINS	GEN		\$ 61.83		\$ 84.90	\$ -
TAYLOR KILLIAN	LAB60		\$ 42.98		\$ 56.82	\$ -
TIMOTHY PELTIER	OPER		\$ 86.17		\$ 112.35	\$ -
PAM ERICSON	DUMP		\$ 83.50		\$ 112.37	\$ -
JSUTIN TRUMAN	DUMP		\$ 83.50		\$ 112.37	\$ -
SUBTOTAL - LABOR:						\$ -
LABOR OVERHEAD & PROFIT @ 29.00%						\$ -
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ -
<b>LABOR TOTAL</b>						<b>\$ -</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL			\$ 15.36	\$ 3.01	\$ -
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12'	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0075	DROP 4 80		6.5	\$ 30.32	\$ 8.54	\$ 55.51
MCI-0076	4X2 25KGVW DSL		6.5	\$ 29.75	\$ 5.04	\$ 32.76
MCI-0061	6X4 18YD 70KGVW		6.5	\$ 73.36	\$ 12.76	\$ 82.94
MCI-0061.5	14.5-13		6.5	\$ 15.63	\$ 4.42	\$ 28.73
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:						\$ 919.30
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 193.05
<b>EQUIPMENT TOTAL</b>						<b>\$ 1,112.35</b>

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		TON		\$ -
		TON		\$ -
		CY		\$ -
SUBTOTAL - MATERIALS				\$ -
MATERIALS MU @ 21%				\$ -
<b>MATERIALS/SERVICE TOTAL</b>				<b>\$ -</b>
TOTAL:				\$ 1,112.35
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
<b>SHEET TOTAL:</b>				<b>\$ 1,112.35</b>

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**Cost for Item 460**

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
<b>BID ITEM = 460 CLIENT# = 46</b>										
Description = DAILY MANG COST Unit = DAY Takeoff Quan: 1.000 Engr Quan: 1.000										
<b>10001</b>	<b>ADDITIONAL MANAGEMENT-TRACKING CHAN</b>			<b>Quan: 1.00 LS</b>	<b>Hrs/Shft: 8.00</b>	<b>Cal: 508</b>	<b>WC: NONE</b>			
<u>SUP01</u>	Superintendent		8.00 CH	<b>Prod: 1.0000 S</b>	Lab Pcs:	2.50	Eqp Pcs:	2.50	<b>**Unreviewed</b>	
8TRPU	Pick up	2.00	16.00 HR	15.330		245		245		
8TRSUPT	Truck-Supt.-PM-Est.(No	0.50	4.00 HR	17.520		70		70		
SUG	Superintendent-(General)	0.50	4.00 MH	66.520	402			402		
SUPENG	Project Engineer	1.00	8.00 MH	37.000	412			412		
SUPM	Project Manager	1.00	8.00 MH	50.500	546			546		
\$1,674.70	20.0000 MH/LS		20.00 MH	[ 966.08 ]	1,359			315		1,675
<b>=====&gt; Item Totals: 460 - DAILY MANG COST</b>										
\$1,674.70	20.0000 MH/DAY		20.00 MH	[ 966.08 ]	1,359			315		<b>1,675</b>
1,674.700	1 DAY				1,359.34			315.36		1,674.70
<b>\$1,674.70</b>	<b>*** Report Totals ***</b>		20.00 MH		1,359			315		<b>1,675</b>



Surveying and Construction Technologies  
 2025 Riverside Drive, Suite D  
 Mount Vernon, WA 98273

**Invoice**

Date	3/17/2021
Invoice #	21.09-01

Bill To
Marshbank Construction Po Box 97 Lake Stevens, WA 98258

Project Name	21.09 East Marginal Way Outfall Storm...	
	GC Proj. #	
	NLS Proj. #	21-09
	Contract #	

Bid Item	Scope	LS Value	Prev. %	Prev. Amt	Total %	Current Co...
Construction Surveying Control	Establish Survey Control Project Network	918.00			100.00%	918.00
Site Preparation Staking	Site Preparation Staking	432.00			100.00%	432.00
Storm Staking	Storm Staking	1,782.00			50.00%	891.00
	Bid Item:	5,400.00			41.50%	2,241.00
Change Order #01	Storm Revisions	1,755.00			100.00%	1,755.00
	~~~~ CHANGE ORDER ~~~~ March 17, 2021 > Added 1 Change Order #01. (+\$1,755.00) > Added 1 Change Order #02. (+\$1,200.00) Total change to estimate +\$2,717.50 ~~~~~					
						3,996.00
Retention (5%)						-199.80

Total	\$3,796.20
Payments/Credits	\$0.00
Balance Due	\$3,796.20

Salinas Sawing & Sealing, Inc.

7804 40th Ave W.
Mukilteo, WA 98275

Invoice

Date	Invoice #
3/9/2021	33689

Bill To
MARSHBANK CONSTRUCTION P.O. BOX 97 LAKE STEVENS, WA 98258-0097

Ship To
E. MARGINAL WAY OUTFALL STORMWATER RETROFIT PROJECT CITY OF TUKWILA MCI PROJECT 20118 PR-1729

P.O. No.	Terms	Due Date	Project	Our Job No.
	Net 30	4/8/2021	21-9415 E. Marginal Way...	21-9415
Item	Description	Quantity	Rate	Amount
300	Asphalt Demo- 9"	228	2.34	533.52
600	Concrete Demo- 7" (16" TD)	228	4.90	1,117.20
825	Standby Time Per Hour	1.5	120.00	180.00
300	Asphalt Demo- 9"	86	2.34	201.24
600	Concrete Demo- 7" (16" TD)	86	4.90	421.40
750	Slurry Vacuum Equip & Disposal		175.00	175.00
Work Completed 03/09/2021 (W.O. 53197)				
Office:(425) 745-0706 Fax:(425) 745-0628			Total	\$2,628.36

Bid Item	Description	Quantity	Unit	Amount
2	Temporary Water Pollution/Erosion Control	1	LS	\$15,000.00
	Initial TESC setup	1	LS	\$5,000.00
	TESC Daily Rate	60	Day	\$166.67
5	Project Temporary Traffic Control	1	LS	\$75,000.00
	Initial traffic control set up	1	LS	\$15,000.00
	Traffic control daily rate	60	Day	\$1,000.00
6	Removal of Structures & Obstructions	1	LS	\$20,000.00
	Saw cutting 2+25 - 15+30	1	LS	\$8,000.00
	Removal of hardscapes 2+25 - 15+30	1	LS	\$4,000.00
	Saw cutting 16+80 - 21+10	1	LS	\$4,000.00
	Removal of hardscapes 16+80 - 21+10	1	LS	\$4,000.00
39	Pump Station Complete	1	LS	\$80,000.00
	Excavation, grading, and installing structure 19	1	LS	\$45,000.00
	Procurement of electrical components	1	LS	\$22,500.00
	Instillation of conduit boxes and wiring	1	LS	\$7,500.00
	Training for pump station	1	LS	\$5,000.00
40	Stormwater Media Filer	1	LS	\$65,000.00
	Excavation, grading, and installing structure 100	1	LS	\$60,000.00
	Instillation of modular wetland media	1	LS	\$5,000.00
43	Traffic Signal Modifications	1	LS	\$21,200.00
	Procurement of materials	1	LS	\$2,120.00
	Instillation of materials	1	LS	\$20,000.00

Submittal Approval Codes	
	NET - No Exceptions Taken
	RAR - Revise and Resubmit
X	CA - Conditionally Approved, See Comments
	CA - Conditionally Approved, Make Corrections
	REJ - Rejected See Comments

Reviewer Comments:

Lump Sum Breakdown is approved for items included within.

Additionally, bid item #3 for "mobilization" will be processed per WSDOT Spec 1-09.7

J. Matt North 03/04/2021

Cc: Kenton Wilde <Kenton@marshbankconst.com>

Subject: RE: EMWO: Weekly Progress Meeting - Link to MS Teams meetings.

Importance: High

Please see attached RFI 014. This is time sensitive by tomorrow a.m. Photos attached for reference.

Thank you

Rob Gammell

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 209-8225 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

Rob Gammell

Subject: FW: BIO CLEAN STORAGE

From: Daryl.Clark@Ferguson.com <Daryl.Clark@Ferguson.com>
Sent: Thursday, March 18, 2021 4:18 PM
To: Patrick <Patrick@marshbankconst.com>
Cc: Rob Gammell <rob@marshbankconst.com>; PANDORA_6@MSN.COM
Subject: BIO CLEAN STORAGE

Patrick,
I guess there serious about storage. I thought a few hundred bucks. See below Bio Clean comments. Also a \$300 double cancellation fee to the owner.
Please advise on PO or cost code to use for billing.
Thank you.
Daryl Clark

Hope you are doing well. The East Marginal Way Outfall shipment has been cancelled a couple times this month. We do not have room to store this unit after 30 days from completion, which would be March 24th. Will the contractor be able to take this unit by March 31st? We will need to begin charging storage fees of \$2982 per month on April 1st. Hopefully the fees can be avoided by the contractor taking the unit before March 31st. Thanks for your help.



Jeff Pierce
Regional Sales Manager
Pacific Northwest

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507

April 2, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 7.1

Mr. North,

Marshbank Construction Inc. (Marshbank) is providing the following Change Order Proposal for your consideration. This proposal is associated with the revised design change (EMWO Design Issue, FWD 001.1) received via email from KPG on 3/29/2021.

Design Change EMWO - Proposal Breakdown:

- **Replacing Monument**
 - Removal and reinstallation of survey monument adjacent to Structure #19. This is an activity taking place post paving, includes coring sub, purchase of monument related construction materials, labor, trucking, applicable dump fees.
 - \$4,282.00
- **Added Striping Install/Removals and Subsequent Layout**
 - The FWD design alignment shifted work activities into previously unaffected channelization requiring new RPM'S, removal for saw-cutting, and added layout for striping otherwise not contemplated in our original bid proposal. Includes labor, subcontractor's added costs, small tools, and applicable dump fees.
 - \$ 3176.00
- **Modular Structure Relocation/Added Saw-cutting/Safety Shoulder**
 - This incorporates added saw-cutting and additional hardscape removals for the modular structure restricted to actual affected area by pipe or structure/shoring (#100). If any hardscapes outside of the area are determined not suitable to remain, this work is expected to be measured and paid per bid item at the same time Marshbank is onsite concurrently working. Additionally, this change has the potential to construct a safety shoulder of rock (20 tons) assumed, sacrificial material, as the proximity of the live lane with traffic is closure to the trench than originally designed.
 - \$26,050
- **Additional Days/Overhead**
 - (6) Added working days needed to facilitate these changes. This covers additional management overhead for the added days, project oversight, schedule updates, supplier coordination, etc.
 - \$10,708.00
- **Structures 21, 24, 25 and added 4' of trench width and Incidentals**
 - From the STA 11+21 to 12+57, this design change added ~4' width to a trench excavation bid at ~2.5 for the 4" force main. This price compensates ~136 LF of increased incidentals to the trench section. Specifically, pipe zone bedding, excavation of hardscapes, haul, and backfill. Original structures #25, #24, and #21 have been either deleted or adjusted resulting in (2) new structures being ordered and dump fees calculated for the original structures. The pricing accounts for the additional hardscapes removal in this area not quantified in our original bid price.
 - \$10981.00

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

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- **Structures #25 - #34 Restoration**

- This pricing replaces the temporary filling of CSBC previously paid on SL 8.1 to prep and remove for bid item hardscape restoration.
 - \$2,036.00

Bid Item #2 ESC (Lump Sum Item) - \$1,500 (Daily Lump Sum rate multiplied by 6)

Bid Item #5 PTTC (Lump Sum Item) -\$7,500 (Daily Lump Sum rate multiplied by 6)

FWD 001.1 Total **\$64,668.41**

Additional LS items - **\$9,000**

Marshbank offers a price of **\$71,075.00** related to FWD 001.1. This price includes all itemized pricing breakdowns above to capture all changes based on the design change presented on 3/29/21. At this time Marshbank is excluding both pothole restoration outside of affected areas within the old alignment and the sealing of existing sawcut until a time where direction and procedure can be evaluated and agreed upon for both feasibility and longevity. Please note the pipe removal item (below) is a unit-based item to be used as encountered and within the language specified. KPG is to use this unit price to create an additional unit price bid item for pipe removal if encountered.

- **Pipe Removal Per Foot**

- Marshbank is using 100' feet as a quantity guideline as this amount cannot be quantified with this change accurately. This pricing includes excavation of 12" PVC/Concrete conflicting nonactive pipe within the neat line of proposed storm excavation. The pricing reflects our assumption that the entire pipe does require CDF filling. Marshbank will grout any open ends. If a full pipe fill is required this would be a change to this pricing. The minimum footage for payment if pipe is encountered will be 20' for this pricing to be acceptable.
 - \$66.80 Per LF

Below is a list of assumptions

- Marshbank has approval to continually take the three middle lanes day and night as this work has pushed edges and cuts towards to outside of lane lines. If permissions are revoked for any reason, current traffic control pricing will no longer be valid. Repricing and any stoppage as a result of this could become costly.
- As the hatches and lids have moved, any alignment or wheel path issues is accepted and City of Tukwila has ownership of the design.
- Marshbank makes no warranty that the note "SET MODULAR WETLAND AS NEAR AS PRACTICAL" to field fit works with current design changes and any issue arising from structure #100 will be tracked daily including any work stoppages as well as City of Tukwila accepts risk of pipe alignment/angles with this note.
- Encountered utility sand encroaching as a result of proximity of Zayo comm line will be tracked via force account and any loss production.
- Encountered sand undermining adjacent roadway and additional "T-Cut" or restoration will be directed by KPG/Tukwila and tracked via force account.
- Marshbank is not liable for any design that increased the max tolerance of allowed deflection for the approved piping.
- Any supporting of the comm line will be tracked via force account.
- All Concrete Panel replacement is per bid item
- All HMA replacement is per bid item
- Backfilling structure #100 area with CSBC paid per ton except safety buffer.

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MARSHBANK

CONSTRUCTION

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- Pipe removal is paid per newly created bid item with a minimum of 20' if encountered for payment.
- If unsuitable is encountered in this area any unsuitable is replaced via CSBC per ton related to 7-08.3(1)A.

Marshbank requests a change order be written in the amount of **\$74,818.00** and a unit price bid item created for pipe removal to be used if and when encountered. Marshbank requires an additional (6) working days to complete this change.

Should you have any questions regarding this serial letter please contact me at (425) 209-8225

Regards,



Rob Gammell
Marshbank Construction Inc.

Cost for Item 450

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Ment Contract	Total	
BID ITEM = 450 CLIENT# = 45										
Description =	PCO--DESIGN CHANGE 3-30-21 REVISED		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:		1.000	
20462	REPLACING MONUMENT AND MATERIALS/SUR		Quan:	1.00 LS	Hrs/Shft:	8.00	Cal: 508	WC: NONE		
<u>PIADI</u>	Adjust to grade crew		4.00 CH	Prod:	4.0000 CH	Lab Pcs:	2.00	Eqp Pcs:	3.00	
2SA008	Monument@110%	1.00	1.00 EA	350.000		385			385	
4SAW	Sawing sub	1.00	1.00 EA	500.000				500	500	
4SURVY	Survey sub	1.00	1.00 LS	2,500.000				2,500	2,500	
8BA416B	Backhoe-420 - 3017	1.00	4.00 HR	40.140			161		161	
8CO160	Air Compressor 160 cfm	1.00	4.00 HR	16.200			65		65	
8TRFRMN	Foremans Truck w/tools	1.00	4.00 HR	17.520			70		70	
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249	
OPF	Operator-(Foreman)	1.00	4.00 MH	54.520	352				352	
\$4,281.69	8.0000 MH/LS		8.00 MH	[381.16]	601	385		295	3,000	4,282
10010	STRIPING CHANGES		Quan:	1.00 DAY	Hrs/Shft:	8.00	Cal: 508	WC: NONE		
<u>EAEX02</u>	200 Exc, Grade Chkr		4.00 CH	Prod:	0.5000 S	Lab Pcs:	2.00	Eqp Pcs:	0.00	
3GY76	Small Tools@110%	1.00	1.00 LS	75.000		83			83	
4STP	Striping sub	1.00	1.00 LS	2,600.000				2,600	2,600	
LABGEN	Laborer-(Group 3)	1.00	4.00 MH	39.810	244				244	
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249	
\$3,175.65	8.0000 MH/DAY		8.00 MH	[322.32]	493		83		2,600	3,176
21761	MOD STRUCTURE AREA HARDSCAPE REMOVA		Quan:	80.00 CY	Hrs/Shft:	8.00	Cal: 508	WC: NONE		
940 SQFT ADDED- LANE LOADING DIFFICULTIES WITH FWD 1.1										
<u>PI2000</u>	Pipe Crew <12", <8' Deep		10.00 CH	Prod:	8.0000 UH	Lab Pcs:	5.00	Eqp Pcs:	3.00	
2AGQBC	CSBC Crushed Surf@110	1.00	20.00 TN	9.000		198			198	
3HAUL	Hauling Sub@110%	1.00	23.00 HR	175.000			4,428		4,428	
4SAW	Sawing sub	1.00	670.00 LF	20.000				13,400	13,400	
4SURVY	Survey sub	1.00	1.00 LS	1,550.000				1,550	1,550	
8BA416B	Backhoe-420 - 3017	1.00	10.00 HR	40.140			401		401	
8EX200	Excavator-EX228 - 1022	1.00	10.00 HR	105.230			1,052		1,052	
8TRFRMN	Foremans Truck w/tools	1.00	10.00 HR	17.520			175		175	
9ASPHALT	Asphalt Dump Fees	1.00	65.00 CY	8.000			520		520	
9CONCRETE	Concrete Dump Fees	1.00	65.00 CY	8.000			520		520	
LABPL	PipeLayer-Gr Checker (Gro	2.00	20.00 MH	40.770	1,244				1,244	
OP2	Operator-(Group 1)	2.00	20.00 MH	51.020	1,681				1,681	
OPF	Operator-(Foreman)	1.00	10.00 MH	54.520	881				881	
\$26,050.10	0.6250 MH/CY		50.00 MH	[29.763]	3,806	198	5,468	1,629	14,950	26,050
10001	ADDITIONAL MANAGEMENT-TRACKING CHAN		Quan:	6.00 DAY	Hrs/Shft:	8.00	Cal: 508	WC: NONE		
<u>SUP01</u>	Superintendent		48.00 CH	Prod:	8.0000 HU	Lab Pcs:	2.50	Eqp Pcs:	2.50	
3GY11	Utilities, Field @110%	1.00	6.00 DAY	100.000		660			660	
8TRPU	Pick up	2.00	96.00 HR	15.330			1,472		1,472	
8TRSUPT	Truck-Supt.-PM-Est.(No	0.50	24.00 HR	17.520			420		420	
SUG	Superintendent-(General)	0.50	24.00 MH	66.520	2,410				2,410	
SUPENG	Project Engineer	1.00	48.00 MH	37.000	2,471				2,471	
SUPM	Project Manager	1.00	48.00 MH	50.500	3,275				3,275	
\$10,708.19	20.0000 MH/DAY		120.00 MH	[966.08]	8,156		660	1,892	10,708	
20472	REMOVE PIPE PER FOOT-MINIMUM 20'		Quan:	100.00 LF	Hrs/Shft:	8.00	Cal: 508	WC: NONE		
<u>EAEX01</u>	200 Exc,D5, Grade chkr		8.00 CH	Prod:	12.5000 UH	Lab Pcs:	5.50	Eqp Pcs:	2.00	
2C002A	3000PSI@110%	1.00	0.50 CY	100.000		55			55	
4HAUL	Hauling Subcontractor	1.00	8.00 HR	175.000				1,400	1,400	
8EX200	Excavator-EX228 - 1022	1.00	8.00 HR	105.230			842		842	

Cost for Item 450

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Contract	Total
BID ITEM = 450 CLIENT# = 45									
Description =	PCO--DESIGN CHANGE 3-30-21 REVISED		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:	1.000
8TRFRMN	Foremans Truck w/tools	1.00	8.00 HR	17.520				140	140
9STORM	Storm Dump Fee	1.00	15.00 CY	8.000			120		120
LABGEN	Laborer-(Group 3)	1.00	8.00 MH	39.810	489				489
LABPL	PipeLayer-Gr Checker (Gro	1.00	8.00 MH	40.770	498				498
OP2	Operator-(Group 1)	2.00	16.00 MH	51.020	1,344				1,344
OPF	Operator-(Foreman)	1.00	8.00 MH	54.520	705				705
SUPENG	Project Engineer	0.50	4.00 MH	37.000	206				206
\$5,798.48	0,4400 MH/LF		44.00 MH	[20.451]	3,241	55	120	982	1,400
70005	STRUCT RESTORE 34/25-PREP FOR HARDSCAPE	Quan:	1.00 LS	Hrs/Shft:	8.00	Cal:	508	WC:	NONE
EAEX04	320 Exc. and Grade chkr		4.00 CH	Prod:	4.0000 HU	Lab Pcs:	2.00	Eqp Pcs:	1.00
4HAUL	Hauling Subcontractor	1.00	4.00 HR	175.000				700	700
8EX233	Excavator-CAT 328 - 10	1.00	4.00 HR	127.880				512	512
9DIRT	Dirt Dump Fees	1.00	30.00 CY	8.000			240		240
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249
OP2	Operator-(Group 1)	1.00	4.00 MH	51.020	336				336
\$2,036.45	8.0000 MH/LS		8.00 MH	[367.16]	585		240	512	700
41480-03	MH-21, MH-24, ADDITONAL WIDTH 4" REMOVA	Quan:	1.00 LS	Hrs/Shft:	8.00	Cal:	508	WC:	NONE
RESTOCKING/DEMO RELOADING OFFSITE HAULING TO DUMP AND RETURN TO HOME BASE									
PI4000	Pipe crew 400		8.00 CH	Prod:	8.0000 HU	Lab Pcs:	5.00	Eqp Pcs:	4.00
2AGQBC	CSBC Crushed Surf@110	1.00	90.00 TN	9.000	891				891
2PCS026	Type 242 48"@110%	1.00	2.00 EA	457.000	1,005				1,005
4HAUL	Hauling Subcontractor	1.00	14.00 HR	175.000				2,450	2,450
8EX070	Excavator-CAT 308 - 10	1.00	8.00 HR	50.330				403	403
8EX200	Excavator-EX228 - 1022	1.00	8.00 HR	105.230				842	842
8LO924	Loader- 3016	1.00	8.00 HR	51.360				411	411
8TOOLJJ	Jumping Jack	1.00	8.00 HR	8.000				64	64
9ASPHALT	Asphalt Dump Fees	1.00	30.00 CY	8.000			240		240
9CONCRETE	Concrete Dump Fees	1.00	30.00 CY	8.000			240		240
9DIRT	Dirt Dump Fees	1.00	75.00 CY	8.000			600		600
9STORM	Storm Dump Fee	1.00	1.00 LS	800.000			800		800
LABGEN	Laborer-(Group 3)	1.00	8.00 MH	39.810	489				489
LABPL	PipeLayer-Gr Checker (Gro	1.00	8.00 MH	40.770	498				498
OP2	Operator-(Group 1)	2.00	16.00 MH	51.020	1,344				1,344
OPF	Operator-(Foreman)	1.00	8.00 MH	54.520	705				705
\$10,981.32	40.0000 MH/LS		40.00 MH	[1897.12]	3,036	1,896	1,880	1,719	2,450
====> Item Totals:	450 - PCO--DESIGN CHANGE 3-30-21 REVISED								
\$63,031.88	278.0000 MH/LS		278.00 MH	[13190.36]	19,918	2,534	8,450	7,029	25,100
63,031.880	1 LS				19,918.10	2,534.40	8,450.00	7,029.38	25,100.00
\$63,031.88	*** Report Totals ***		278.00 MH		19,918	2,534	8,450	7,029	25,100

>>> indicates Non Additive Activity

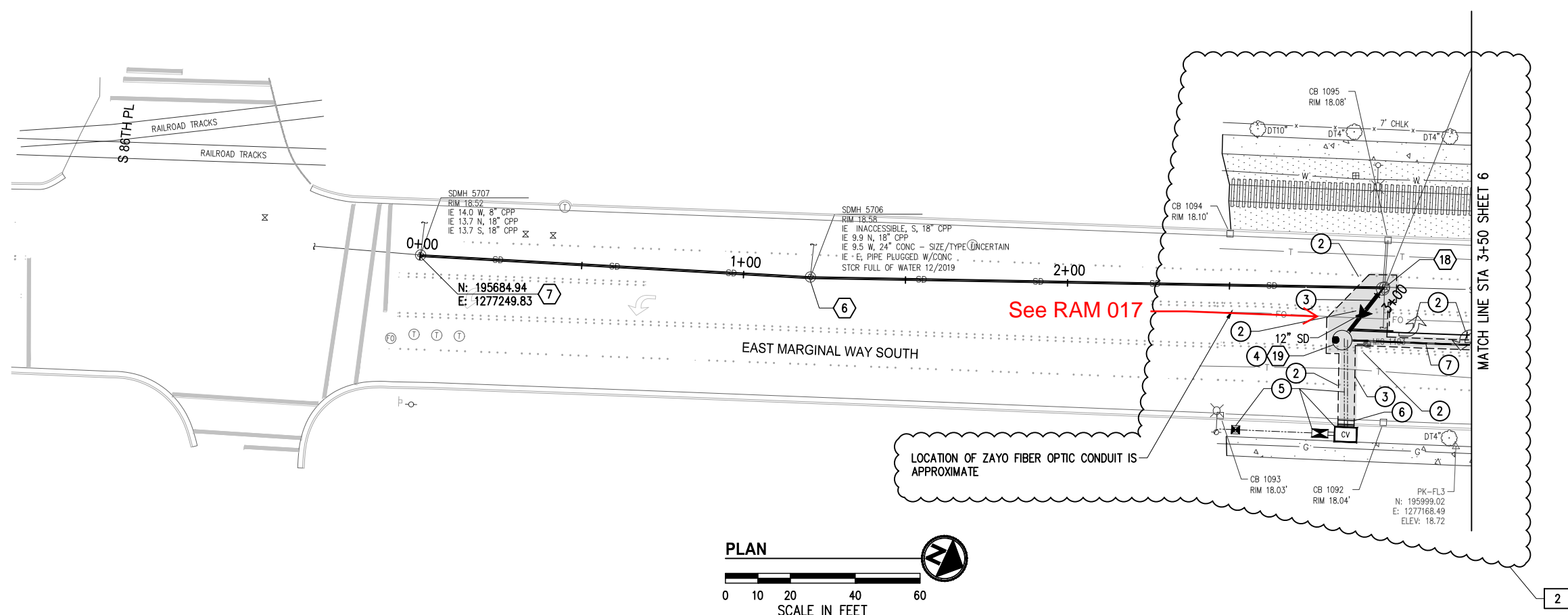
Holding account totals will not be added to the report totals because the distribution is instead added to the various bid items.

-----Report Notes:-----

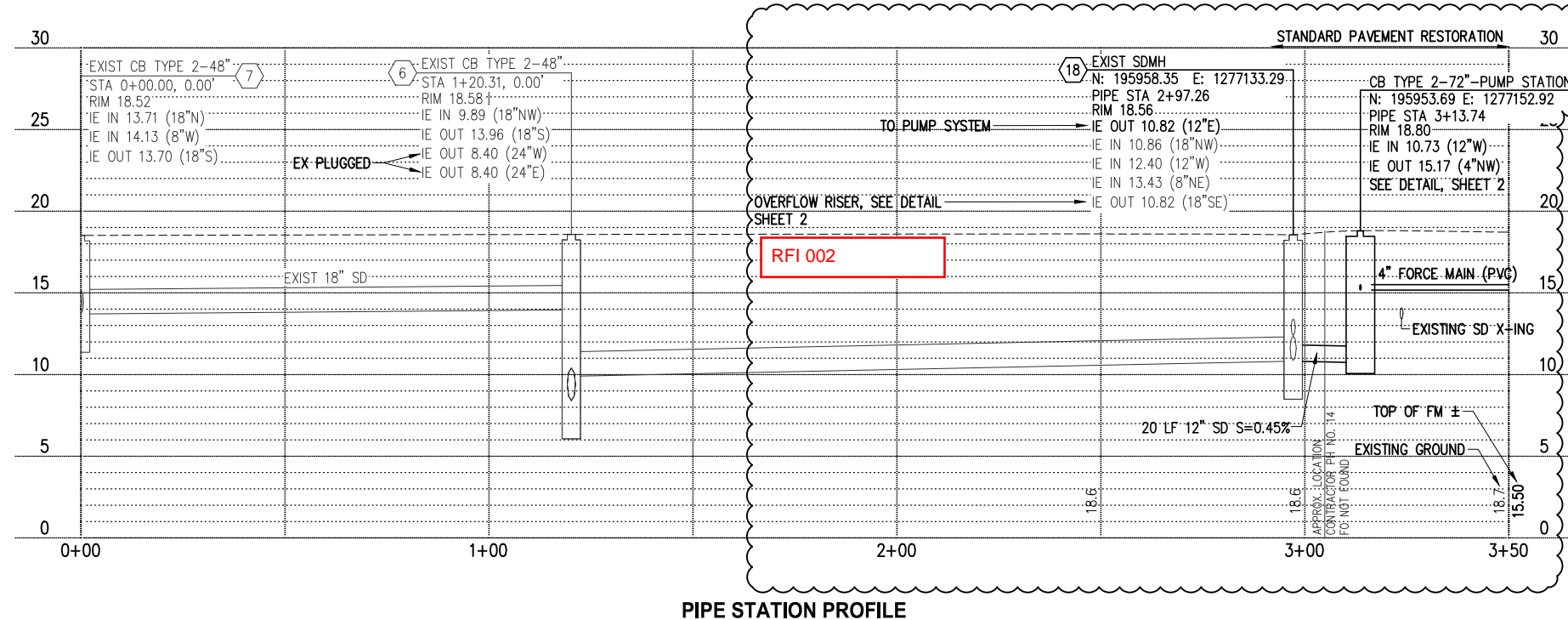
The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

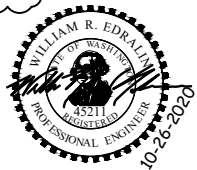
'Unreviewed' Activities are marked.



- GENERAL NOTES**
1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
 2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
 3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUKWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
 4. CONFIRM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POT-HOLE THE EXACT LOCATION.
 6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN), PROVIDE AN OD X OD X 2.5" POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE OD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
 7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
 8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
 9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
 10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



- CONSTRUCTION NOTES**
- 1 REMOVE OR ABANDON EXISTING STORM DRAIN PIPE.
 - 2 REPLACE EXISTING ROADWAY MARKINGS.
 - 3 TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
 - 4 INSTALL FLOW SPLITTER AND PUMP STATION IN 72" DIAMETER STRUCTURES, SEE DETAIL SHEET 2.
 - 5 SEE ELECTRICAL DETAILS FOR PUMP POWER AND CONTROLS.
 - 6 REMOVE AND REPLACE NEW CURB AND GUTTER.
 - 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 - 8 REMOVE AND REPLACE EXISTING MONUMENT.



PUBLIC WORKS DEPT.
*ENGINEERING*STREETS*WATER*SEWER*BUILDING*

	by	date
designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

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2502 Jefferson Ave
Tacoma, WA 98402
(253) 627-0720
www.kpg.com

CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01

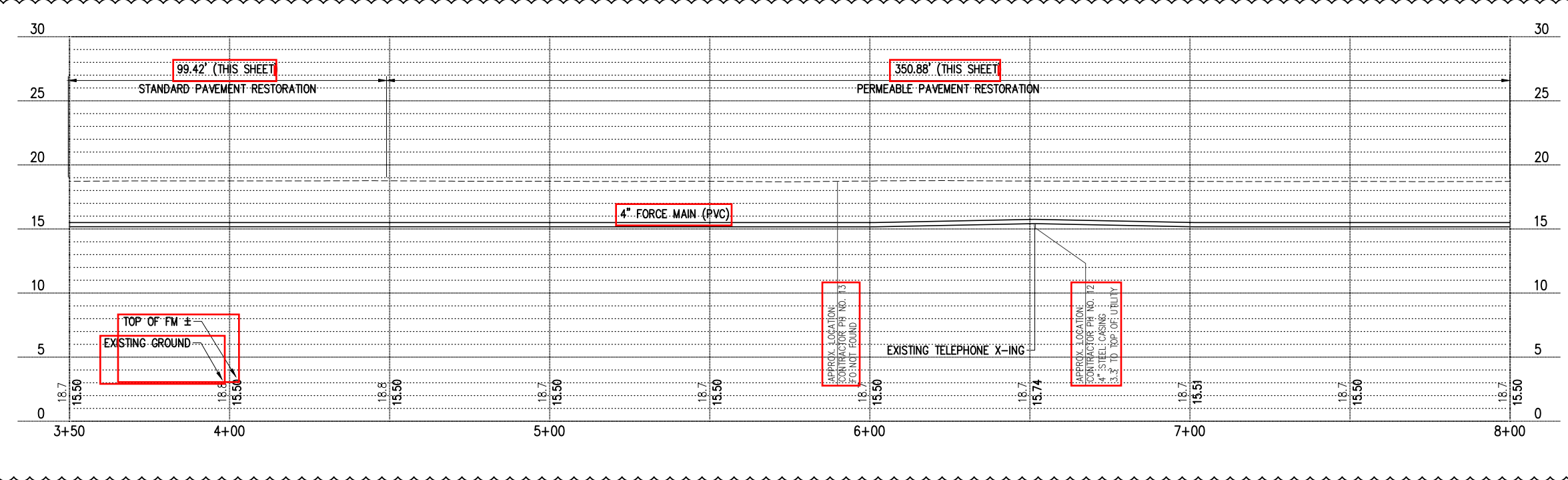
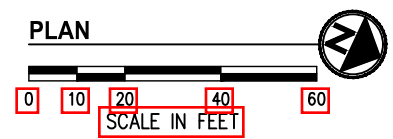
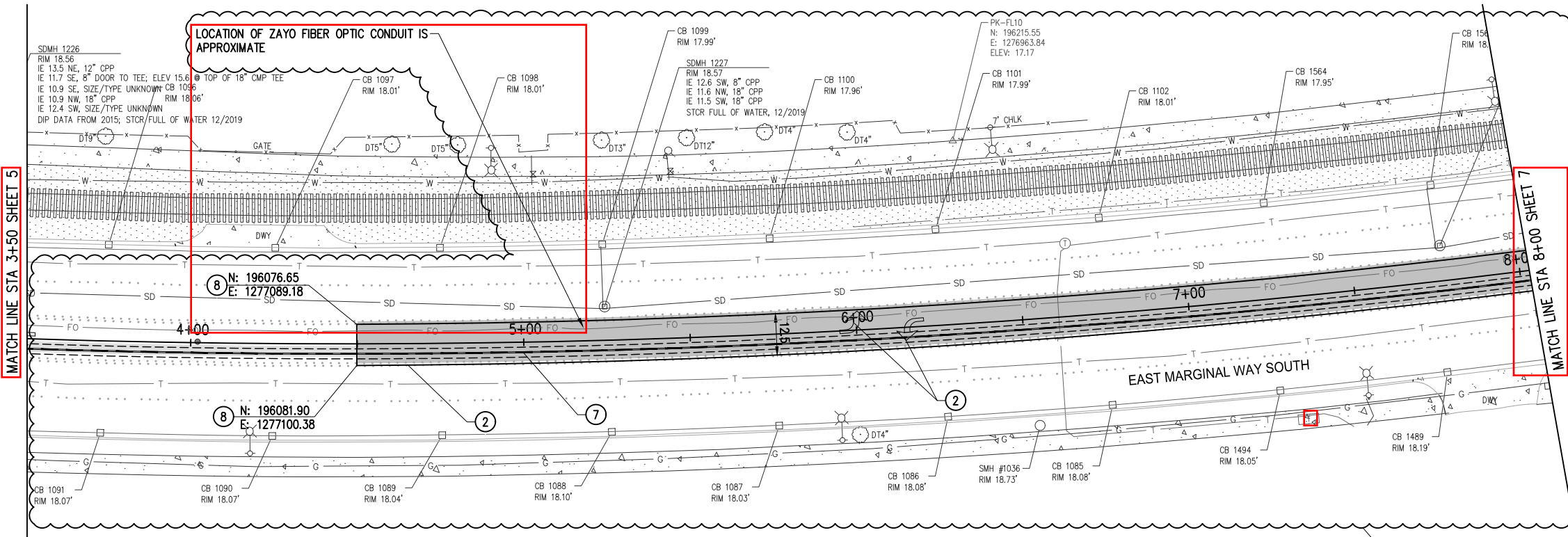
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scale	AS SHOWN
date	06/20

GENERAL NOTES

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8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

2. REPLACE EXISTING ROADWAY MARKINGS.
7. INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
8. REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.



PIPE STATION PROFILE

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designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

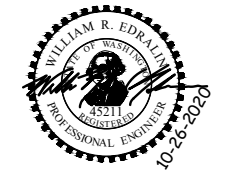
KPG
3131 Elliott Ave
Suite 400
Seattle, WA 98121
(206) 286-1640

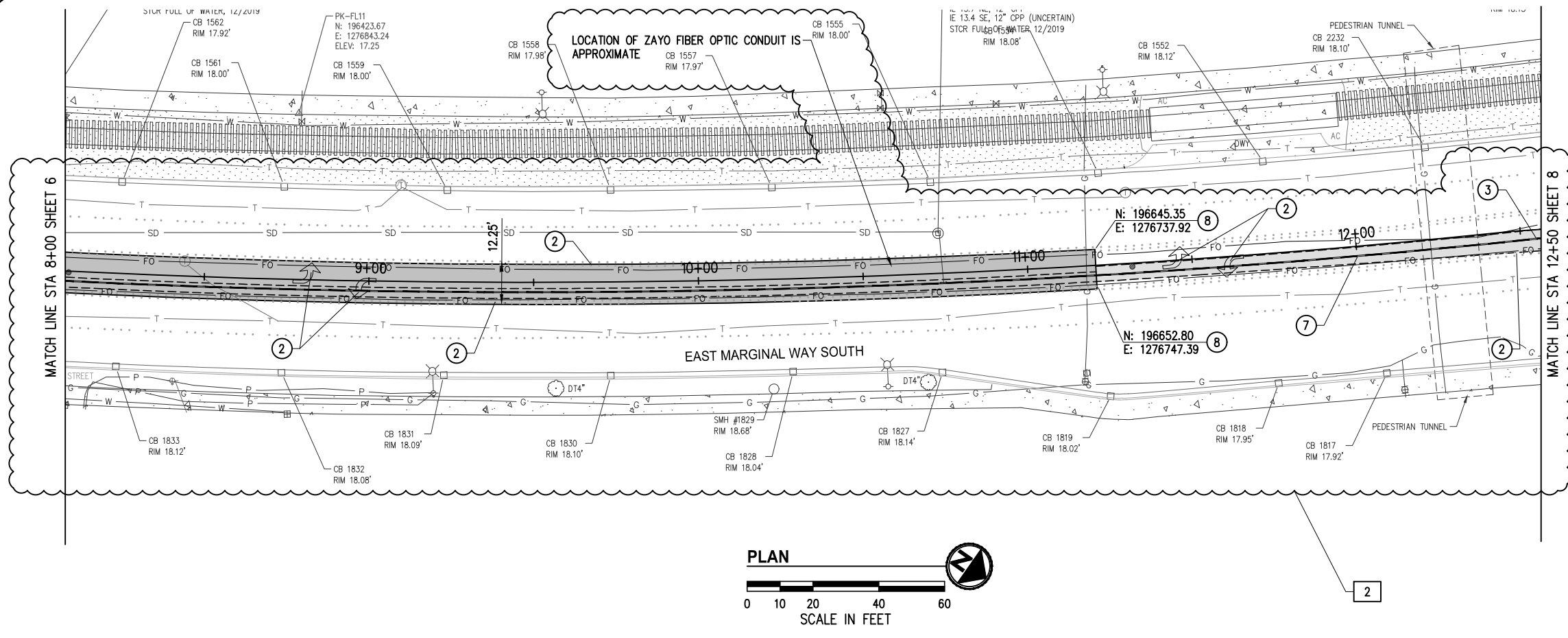
2502 Jefferson Ave
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E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

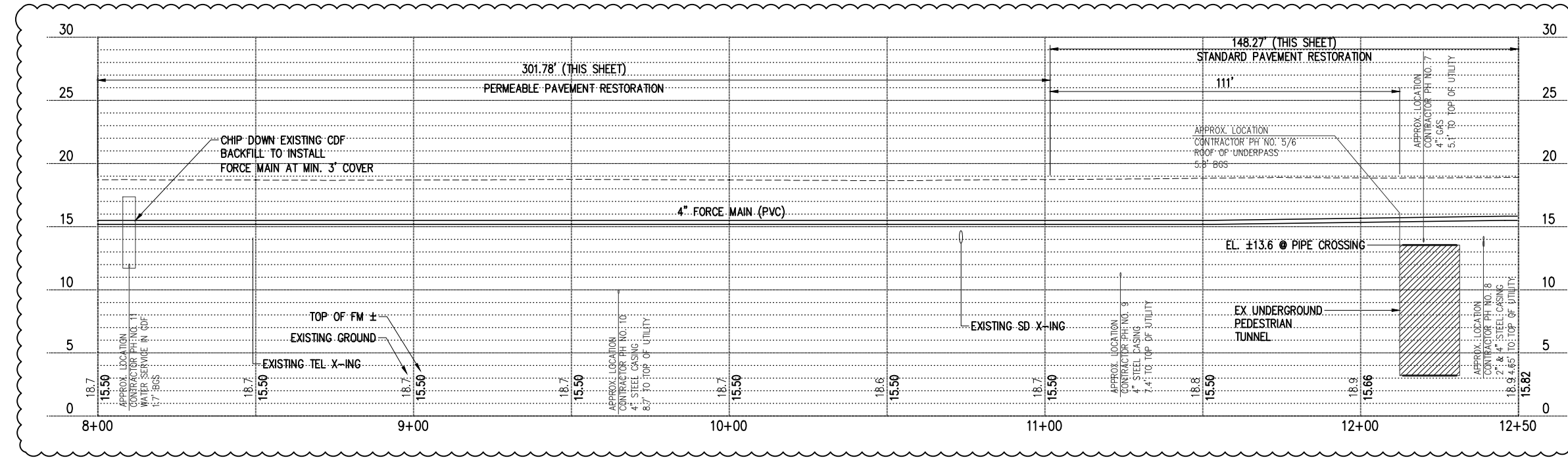
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2	03/11	FD NO. 01

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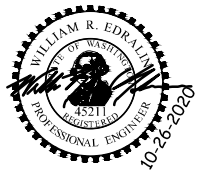


- ### GENERAL NOTES
1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
 2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
 3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUKWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
 4. CONFIRM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POTHOLE THE EXACT LOCATION.
 6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN), PROVIDE AN OD X OD X 2.5" POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE OD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
 7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
 8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
 9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
 10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



- ### CONSTRUCTION NOTES
2. REPLACE EXISTING ROADWAY MARKINGS.
 3. TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
 7. INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 8. REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.

PIPE STATION PROFILE



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	by	date
designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

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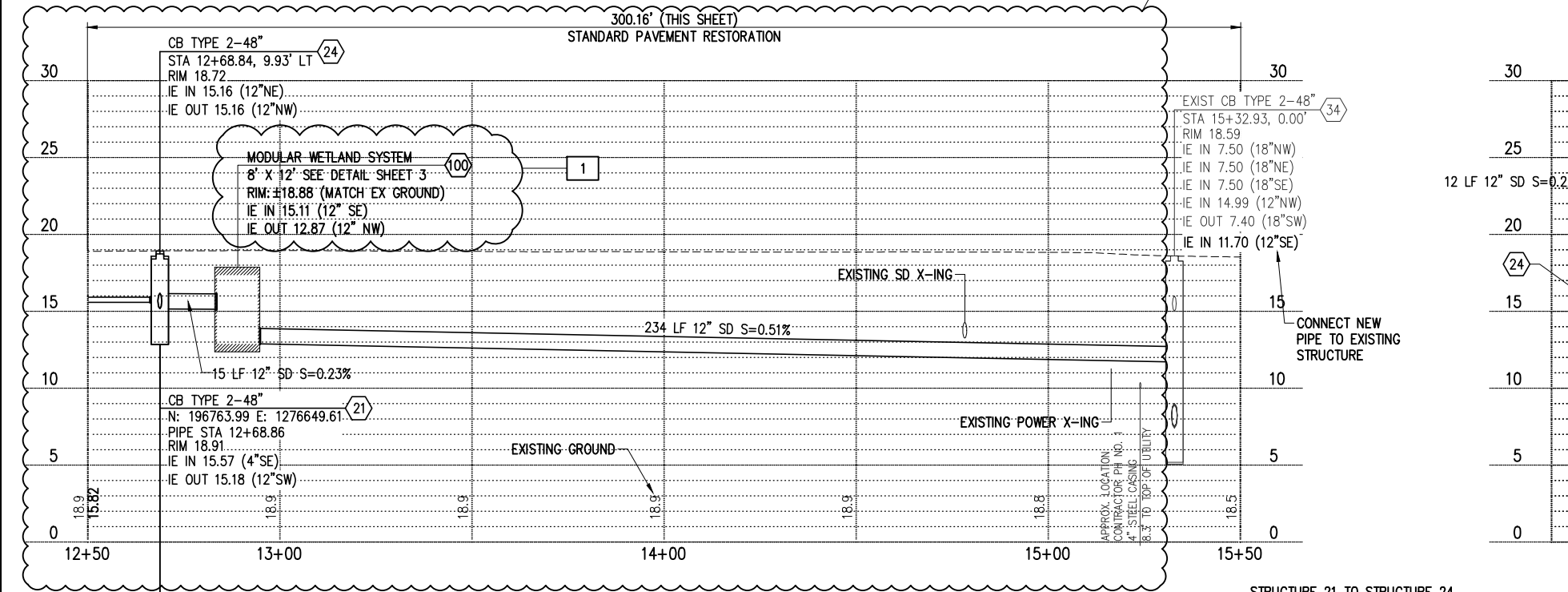
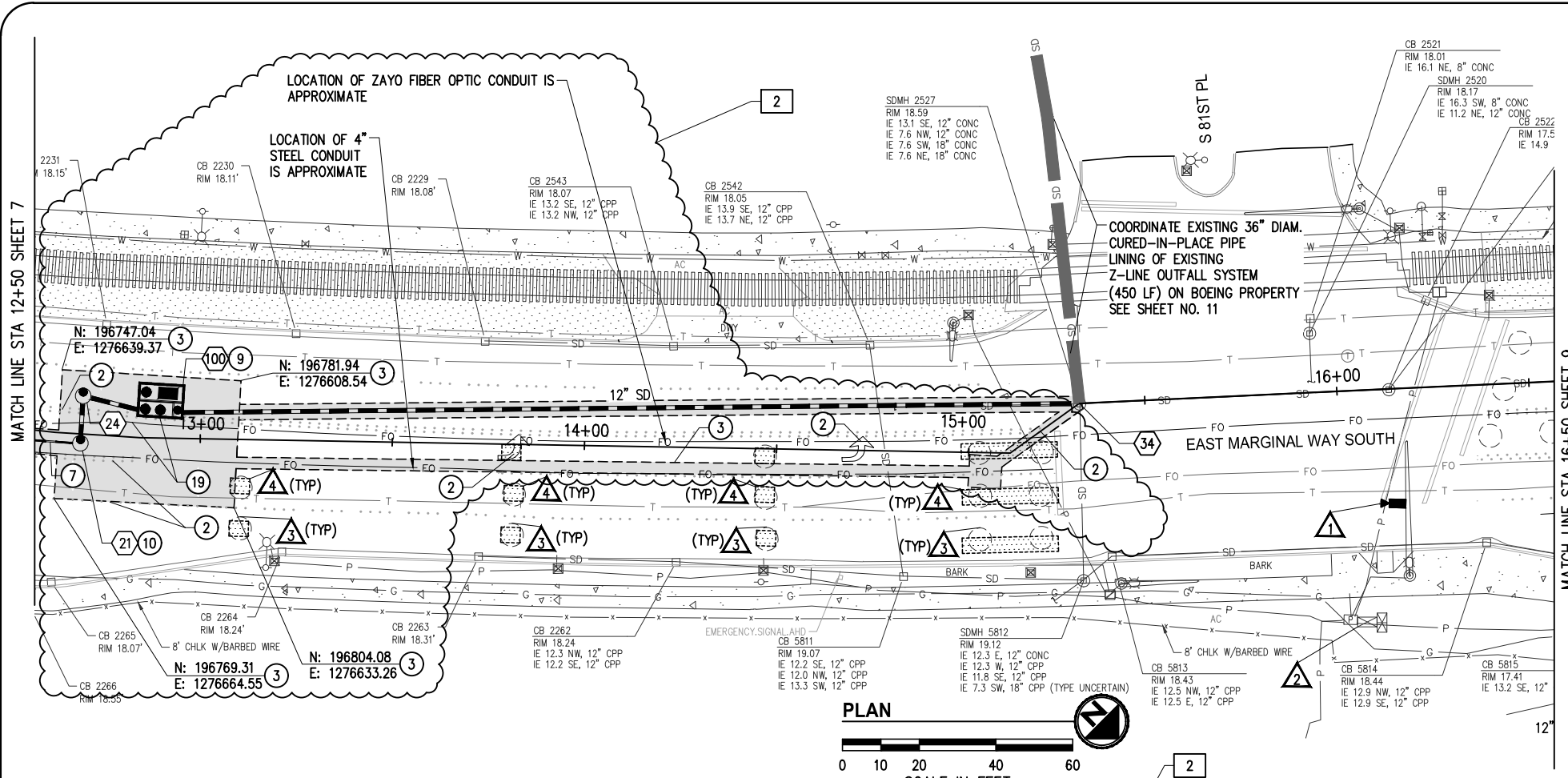
CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01

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file no
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PIPE STATION PROFILE

GENERAL NOTES

- FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.
- PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

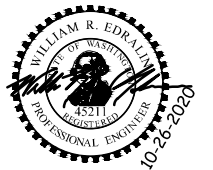
- REPLACE EXISTING ROADWAY MARKINGS.
- TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
- INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- INSTALL WATER QUALITY TREATMENT VAULT, SEE DETAIL SHEET 3.
- INSTALL DROP CONNECTION INSIDE STRUCTURE WITH CHANNEL BOTTOM. SEE DETAIL SHEET 2 FOR DISCHARGE PIPING.
- POTHOLES REVEALED SIGNIFICANT ALIGNMENT SHIFT IN ZAYO CONDUIT IN THIS AREA. SET MODULAR WETLAND AS NEAR AS PRACTICAL TO ZAYO DUCT BASED ON ACTUAL FIELD LOCATION.

SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM KIRKLAND AT (206) 730-8476 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
- CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATION AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 10 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. ALL TWISTED PAIR LOOP WIRE SHALL BE DISCONNECTED AT THE JUNCTION BOX SPLICE POINT PRIOR TO SAWCUT FOR PAVEMENT REMOVAL. ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
- THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM. MOUNT PER MANUFACTURERS SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE). FURNISH AND INSTALL VIDEO CABLING TO CONTROLLER (ROUTE OF CABLING SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET. EDGE 2 CARD AND LCD MONITOR SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY THE CITY. JOURNEY LEVEL WORK IN THE CABINET, INCLUDING FIELD WIRING TERMINATION IS ALLOWED IN THE PRESENCE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RUN 2CS WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES AND DISCONNECT LOOP SPLICES IN THE JUNCTION BOX PRIOR TO ANY SAW CUTTING OR GRINDING.
- VIRTUAL DETECTION ZONE SHOWN FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



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designed	WRE	05/20
drawn	WRE	05/20
checked	NJD	06/20
proj eng	WRE	06/20
proj dir		
field bk no		

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CONFORMED DOCUMENTS

E MARGINAL WAY OUTFALL
STORMWATER RETROFIT PROJECT
DRAINAGE PLANS

no	date	revisions
2	03/11	FD NO. 01
1	12/20	RFI NO. 004

8
16
file no
scale AS SHOWN
06/20

CITY OF TUKWILA

Change Order 3

Measurement:

Measurement for New Item #C03-01 will be per .

Payment:

Payment for all work associated with the tasks described above shall be made under new items at unit prices as detailed in the summary of quantities below, and will be full compensation for all costs associated with labor, equipment, incidental material, haul, tools, incidentals, subcontractor and service provider mark-up, overhead and profit required to furnish, install, and successfully complete all work for the above-described tasks

SUMMARY OF QUANTITIES

Existing Bid Item Adjustments					
Item No.	Description	Unit	Qty.	Unit Price	Amount
				-	-
Subtotal Existing Items:					\$192,822.66
Change Order Items					
Item No.	Description	Unit	Qty.	Unit Price	Amount
	N/A			-	-
				-	-
				-	-
				-	-
Subtotal Change Order Items:					\$0.00
SUBTOTAL CHANGE ORDER AMOUNT:					\$192,822.66
WSST (%):					\$0.00
TOTAL CHANGE ORDER AMOUNT:					\$192,822.66

TIME IMPACT ANALYSIS

CPM Time Impact Analysis

Contract: CITY OF TUKWILA - East Marginal Way Outfall Stormwater

Contract #: 91041204

Contractor: Marshbank Construction, Inc.

Change Order: C03

CM Reviewer: Matt North

Date: 07/21/21	Requestor of Change: Marshbank Construction, Inc.
	Initiator of Change: Marshbank Construction, Inc.
Detailed Description of Change: This design change request was developed in relation to resolution of utility conflicts relating to the unlocated Zayo fiber line. RFI #014 was issued regarding the discovery of an assumed communication duct bank, Zayo Fiber line, running north and south resulted in multiple utility conflicts. Therefore, Field Work Directive (FWD), 1 and FWD #001.1, were issued resulting in the storm and forcemain redesign.	
Reference Drawings: N/A	
Reason for Change: KPG the COT and Marshbank, determined that design changes were due to the multiple utility conflicts including the unlocated Zayo fiber line being in direct conflict with the storm and forcemain. Marshbank installed the storm and forcemain and all related restoration work in accordance to the FWD #001 to #001.1 which edits plan pages 7 & 8	
Attached Supporting Documentation:	
Impacts of this Change on Related Work: No additional days are added to the contract as a result of this work.	
Other Information:	

INDEPENDENT COST ESTIMATE

SL 008- Supplemental Costs Compiled - Review

Overhead Rate - Onsite Equipment & Management if no FA				Force Account Days - Per Rate Sheets			Temp Traffic Control - LS			ESC LUMP SUM ITEM		
Overhead Rate	Rate	Units	Total	Rate	Units	Total	Rate	Units	Total	Rate	Units	Total
3/9/2021	2197	1	\$ 2,197.00	3/9/2021 - Sheet attached - Need Invoices	10552.05	1 \$ 10,552.05	3/9/2021	1250	1 \$ 1,250.00	3/9/2021	250	1 \$ 250.00
3/10/2021	2197	1	\$ 2,197.00	3/10/2021 - Sheet attached - Need Invoices	7899.28	1 \$ 7,899.28	3/10/2021	1250	1 \$ 1,250.00	3/10/2021	250	1 \$ 250.00
3/11/2021	3306.6	1	\$ 3,306.60			\$ -	3/11/2021	1250	1 \$ 1,250.00	3/11/2021	250	1 \$ 250.00
3/12/2021	3306.6	1	\$ 3,306.60			\$ -	3/12/2021	1250	1 \$ 1,250.00	3/12/2021	250	1 \$ 250.00
3/15/2021	2197	1	\$ 2,197.00	3/15/2021 - Sheet attached - Need Invoices	3758.93	1 \$ 3,758.93	3/15/2021	1250	1 \$ 1,250.00	3/15/2021	250	1 \$ 250.00
3/16/2021	3306.6	1	\$ 3,306.60			\$ -	3/16/2021	1250	1 \$ 1,250.00	3/16/2021	250	1 \$ 250.00
3/17/2021	2197	1	\$ 2,197.00	3/17/2021 - Patrick to Send - Need Invoices	12000	1 \$ 12,000.00	3/17/2021	1250	1 \$ 1,250.00	3/17/2021	250	1 \$ 250.00
3/18/2021	3306.6	1	\$ 3,306.60			\$ -	3/18/2021	1250	1 \$ 1,250.00	3/18/2021	250	1 \$ 250.00
3/19/2021	3306.6	1	\$ 3,306.60			\$ -	3/19/2021	1250	1 \$ 1,250.00	3/19/2021	250	1 \$ 250.00
3/22/2021	3306.6	1	\$ 3,306.60			\$ -	3/22/2021	1250	1 \$ 1,250.00	3/22/2021	250	1 \$ 250.00
3/23/2021	3306.6	1	\$ 3,306.60			\$ -	3/23/2021	1250	1 \$ 1,250.00	3/23/2021	250	1 \$ 250.00
3/24/2021	3306.6	1	\$ 3,306.60			\$ -	3/24/2021	1250	1 \$ 1,250.00	3/24/2021	250	1 \$ 250.00
3/25/2021	3306.6	1	\$ 3,306.60			\$ -	3/25/2021	1250	1 \$ 1,250.00	3/25/2021	250	1 \$ 250.00
3/26/2021	2197	1	\$ 2,197.00	3/26/2021 - Sheet attached - Need Invoices	8000	1 \$ 8,000.00	3/26/2021	1250	1 \$ 1,250.00	3/26/2021	250	1 \$ 250.00
3/29/2021	3306.6	1	\$ 3,306.60			\$ -	3/29/2021	1250	1 \$ 1,250.00	3/29/2021	250	1 \$ 250.00
3/30/2021	3306.6	1	\$ 3,306.60			\$ -	3/30/2021	1250	1 \$ 1,250.00	3/30/2021	250	1 \$ 250.00
3/31/2021	3306.6	1	\$ 3,306.60			\$ -	3/31/2021	1250	1 \$ 1,250.00	3/31/2021	250	1 \$ 250.00
4/1/2021	3306.6	1	\$ 3,306.60			\$ -	4/1/2021	1250	1 \$ 1,250.00	4/1/2021	250	1 \$ 250.00
4/2/2021	3306.6	1	\$ 3,306.60			\$ -	4/2/2021	1250	1 \$ 1,250.00	4/2/2021	250	1 \$ 250.00
	38569.6		\$ 57,277.40			\$ 42,210.26			\$ 23,750.00			\$ 4,750.00

Additional Costs to be assessed

\$ 86,640.17
 \$ 39,679.20
 \$ 126,319.37

 \$ 126,319.37

Re-Sawcutting: \$ - TBD
 Re-Survey: \$ - TBD
 Structures Revisions: \$ - TBD
 Pothole Above 6 EA \$ - TBD
 Restoration of MH34 to MH25: \$ - TBD
 Sealant or Pave Restorations: \$ - TBD

RCSBC part incidental part add to Added costs
 RCSBC rock to BI #11

Proposed CO Pricing: \$ 127,987.66 Pay to BI #4 on PE#1
 \$ - Pay to CO #2 added costs on PE#2
CO#2 Totals: \$ 127,987.66 25000 \$ 102,987.66

WSDOT LAG MANUAL CHANGE ORDER CHECKLIST

Checklist

Question	Yes	No	N/A
1. Does the change order alter the termini, character, or scope of the work?		X	
If yes, you must have H & LP approval to be eligible for federal funds.			X
If yes, you must submit a revised page 1 of the prospectus.			X
2. Is the Change Order over \$7,500.00 and outside the scope of work?	X		
If yes, the change cannot be a change order and must be an independent work.			X
3. Does the Change Order detail all items involved in the change?	X		
4. Does the Change Order include an adjustment to working days?		X	
If yes, the time extension must be stated in the Change Order.			X
If yes, an independent engineer's estimate of time must be included to document the extension.			X
If no, that must be stated in the Change Order.	X		
5. Does the Change Order alter the DBE Condition of Award?		X	
If yes, you must obtain concurrence from H & LP.			X
If yes, you must obtain the DBE's signature on the Change Order			X
6. Does the Change Order involve a material substitution?		X	
If yes, you must determine if a material credit is appropriate.			X
7. If Change Order work started prior to it's execution, prior verbal approval by the Approving Authority must be granted and documented.		X	
8. Has the Change Order been signed by the contractor?	X		
9. Has the Change Order been executed by the Approving Authority?	X		
If you are a "non CA Agency", you must have the acting C Authority's approval.			X
10. Has an independent engineer's estimate justifying the costs and time extensions been completed and documented?	X		
11. Has a detailed memo outlining the chronology of events, basis of need, cost and working days been prepared and placed in the file accompanying the Change Order?	X		

ADDITIONAL BACKUP

Project Name: EAST MARGINAL WAY OUTFALL		Field Construction Record	
Project No.: 91041204			
Bid Item No.: 1	Item Description: MINOR CHANGE		
Start Date of Work: 4-1-21	End Date of Work: 4-30-21		

PER RFI 17.1 (SEE ATTACHED) AND EMAIL ON 4-30-21 FROM ROB @ MARSHBANK, 129 CY OF CONCRETE PAUgment TO BE REMOVED WAS NOT ACCOUNTED FOR IN THE EXISTING BID ITEMS. PAYMENT TO BE AT THE AGREED PRICE OF \$42/CY = \$5410.00

BI # 1 = \$25,000 EST FA
 $\$5410 \div \$25,000 = 0.2164$

How was quantity measured?

SEE RFI 17.1, WHEELED QTY IN FIELD

Bid Item	Bid Item Description	Qty.	Units	Initials		Plan Sheet	Pay Estimate #	Mat'ls App'd (Y/N)
				Posted by	Checked by			
1	MINOR CHANGE	0.2164 = \$5410	FA		JML	3, 6, 7	2	N/A

MATT NORTH

RE

5-4-21

Inspector

Title

Date

Contractor

Title

Date

Calculations Verified/Checked by: 

Date:

5-4-21

From: [Matt North](#)
To: [Alexa Henry](#)
Cc: [Jacob Williams](#); [Ed Wagner](#)
Subject: FW: EMWO- Pay Request - FWD 001.1 payment on PE#2 - SL #7.1 spreadsheet
Date: Tuesday, May 4, 2021 11:25:12 AM
Attachments: [image001.png](#)

Hi Alexa

See the email below for backup to FWD 001.1 payment on PE#2 as just discussed. Goes with SL #7.1 spreadsheet.

Thanks!

Matt North

Resident Engineer
o: 253 627 0720 // d: 206 595 1733

KPG

Creating Great Places Together.

From: Rob Gammell <rob@marshbankconst.com>
Sent: Friday, April 30, 2021 9:13 AM
To: Matt North <matt@kpg.com>
Cc: Patrick Gleason <Patrick@marshbankconst.com>; Kenton Wilde <Kenton@marshbankconst.com>
Subject: EMWO- Pay Request

Matt,

Here are some relevant numbers to include in the estimate.

BI #15 (Conc Base Pave = 450, Ed got 446. 446 is acceptable
RFI #17. We come up with 129 CY's Average bid for us for road ex is 42. This would yield \$5410.00.
Review and let me know if this would be agreed and close out this issue.

FWD 001.1. We would expect payment in the amount of \$68,703.45. (Serial Letter 7.1 less work not performed) Remaining work includes the other half of "Replace Monument" \$2,462.15, Striping additional \$3,652.40,

Also, per Serial Letter 7.1. We encountered pipe removal less than 20' at structure #34. Resulting in one payment of \$1,336.00

Can you send the totals for FA sheets expected through 3/31 for our reconcile?

Send your estimate when you get a chance and we will match up pipe, removals, and any sub work.

MARSHBANK

CONSTRUCTION

REQUEST FOR INFORMATION #017.1

TO: CITY OF TUKWILA

DATE: MARCH 12, 2021

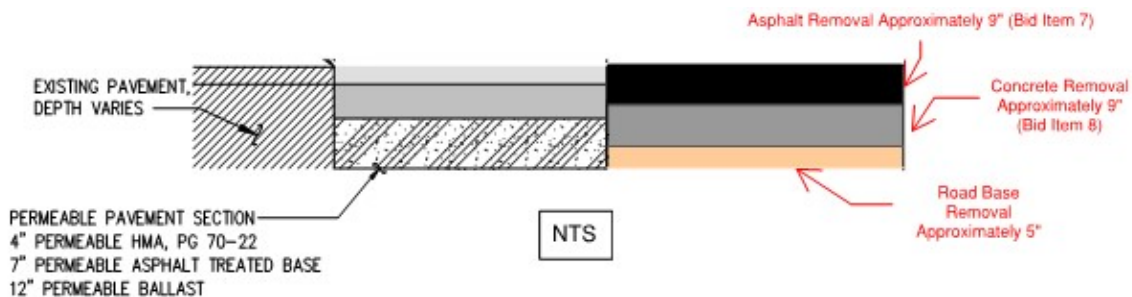
REFERENCE: Road Base Excavation for Permeable Pavement Area
 PROJECT: E. Marginal Way Outfall Stormwater Retrofit Project
 REQUESTED BY: Marshbank Construction

QUESTION:

The excavation for the approximately 5” of road base excavation required for the permeable pavement section (see below) is not included as an incidental for the permeable ballast per special provisions division 10 measurements and payments:

“Measurement and payment for “Permeable Ballast” shall be per ton.

Items to be included in the bid price, but shall not necessarily be limited to: all necessary materials, labor, and equipment, including staking, constructing form work, finishing, removal of form work, and complete installation of cement conc. sidewalk as shown on the plans or directed by the City.”



Marshbank is not in agreement with RFI response 017 that this road base excavation is captured in bid item 18 as there is no contract language to support this. Marshbank Construction recommends the creation of a road-excavation bid item; please advise.

RESPONDED BY: _____

DATE: _____

Payment to be incorporated in Minor Change Bid Item #1 for the amount requested in email from Marshbank received 4-30-21. CY price is in line with industry standard. Processing will be 129cy paid at \$42/cy = lump sum price of \$5410.00.

J. Matt North 05/04/2021

DAILY REPORT OF FORCE ACCOUNT WORKED

FA No.: **2**

Project Name: EMWO	Project No: 14015	Date: 4/29/2021
Bid Item: 01 - Minor Change	Pay Est: 2	
Description of Work: Grout Structure 18 due to structure leaking per Eric from the City of Tukwila.		
Prime Contractor: Marshbank		Sub-Contractor: N/A

PRIME LABOR	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	William Watkins	GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)	1.5	\$ 61.83		\$ 84.03	\$ 92.74
	Chris Rammage	11S)	1.5	\$ 89.76		\$ 121.90	\$ 134.64
	Timothy Peltier	BACKHOE, EXC.-15 TO 30 MT, LOADER - ZONE 1/GROUP 2 + \$2.00 (MCI TRADE 8A)	1.5	\$ 86.54		\$ 115.75	\$ 129.81
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
PRIME LABOR SUBTOTAL							\$ 357.19
PRIME LABOR TOTAL INCLUDING 31% MARKUP							\$ 467.92

PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
	MCI-3016		1.5	\$ 58.16		\$ 9.76	\$ 87.24	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	PRIME EQUIPMENT SUBTOTAL							\$ 87.24
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
						\$ -		
						\$ -		
						\$ -		
PRIME MATERIALS SUBTOTAL							\$ -	
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ 105.56	
PRIME SUBTOTAL							\$ 573.48	

SUBCONTRACTOR LAB	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
	-	-		\$ -		\$ -	\$ -
SUBCONTRACTOR LABOR SUBTOTAL							\$ -
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP							\$ -

SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
SUBCONTRACTOR EQUIPMENT SUBTOTAL							\$ -
MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
						\$ -	
						\$ -	
SUBCONTRACTOR MATERIALS SUBTOTAL							\$ -
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ -

SUBSERVICE	SUBCONTRACTOR / SERVICE	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION
						\$ -
						\$ -
SUBCONTRACTOR INVOICE TOTAL						\$ -
SUBCONTRACTOR SUBTOTAL						\$ -
PRIME CONTACTOR MARKUP AT 12%						\$ -
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP						\$ -

Force Account Sheet By:	Approval of Force Account Worked:	
NAME HERE, KPG Office Engineer	NAME HERE, KPG Resident Engineer	
Date	Date	
		SHEET TOTAL: \$ 573.48

**DAILY REPORT OF
FORCE ACCOUNT WORKED**



Project Name: EMWJO

Project No: 14015

Bid Item No.:

Date: 4-29-21

Description of Work: Grout Structure 18 Due to Structure leaking Per ERIC From City of Tukwila.

Prime Contractor: Marsh bank

Work by Subcontractor?:
Sub-Contractor: N/A

LABOR

NAME	OCCUPATION	STRAIGHT TIME	OVERTIME	COMMENTS
		HOURS	HOURS	
<u>William Watkins</u>	<u>LAB</u>	<u>1.5</u>		
<u>Titan Rammage</u>	<u>APPR.</u>	<u>1.5</u>		
<u>Tim Peltier</u>	<u>OP</u>	<u>1.5</u>		

EQUIPMENT

EQUIPMENT OR ATTACHMENTS	STRAIGHT	STANDBY	COMMENTS
	HOURS	HOURS	
<u>loader 3016</u>	<u>1.5</u>		

MATERIALS

MATERIALS	QUANTITY	UNIT	COMMENTS

Quantities as measured in the field

INVOICES

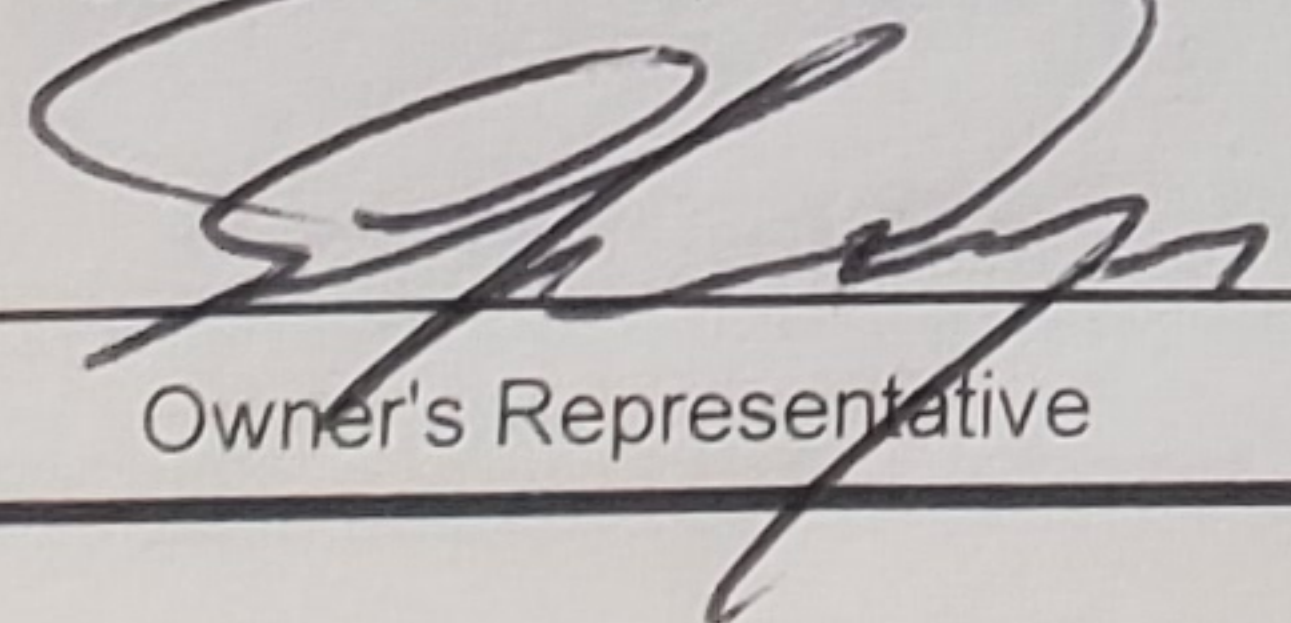
INVOICES	QUANTITY	UNIT	DOLLAR AMOUNT

Verification of Hours Worked:

COMMENTS:

ERIC FOM C.O.T. WAS ON SITE THIS DAY.

X Contractor's Representative Date

X  Owner's Representative Date

Labor & equipment paid

Marshbank Construction Inc.
Foreman's Report of Force Account Worked

5115

Date	4/29/21	Job #	2018
Weather		Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):
Grout structure 18 due to structure leaking per Eric from COT.

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
1.5	Will W.	1.5	320 loader
1.5	Titan R		
1.5	Tim P		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor

Signature:  KPG

Date Completed: _____

DAILY REPORT OF FORCE ACCOUNT WORKED

Project Name: EMWO	Project No: 14015	Date: 4/21/2021
Bid Item: 01 - Minor Change	Pay Est: 2	
Description of Work: Saw cut and remove asphalt edge where existing panels joints are causing edge to fall out. Also where existing pavement is failing. Plus removal of asphalt and concrete.		
Prime Contractor: Marshbank	Sub-Contractor: N/A	

PRIME LABOR	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	William Lindstrom	PIPELAYER & CAULKER - ZONE 1/GROUP 4 (MCI TRADE 4)	3	\$ 63.01		\$ 85.75	\$ 189.04
	William Watkins	GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)	3	\$ 61.83		\$ 84.03	\$ 185.49
	Chris Rammage	11S)	3	\$ 89.76		\$ 121.90	\$ 269.28
	Darren Mcintosh	LABORER 70% OF GENERAL LABORER (1001-2000 HOURS) (MCI TRADE 16B)	3	\$ 47.69		\$ 63.53	\$ 143.06
	Timothy Peltier	BACKHOE, EXC.-15 TO 30 MT, LOADER - ZONE 1/GROUP 2 + \$2.00 (MCI TRADE 8A)	3	\$ 86.54		\$ 115.75	\$ 259.62
		-		\$ -		\$ -	\$ -
		-		\$ -		\$ -	\$ -
		-		\$ -		\$ -	\$ -
		-		\$ -		\$ -	\$ -
PRIME LABOR SUBTOTAL							\$ 1,046.49
PRIME LABOR TOTAL INCLUDING 31% MARKUP							\$ 1,370.90
PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION
	MCI-1020		3	\$ 145.27		\$ 16.80	\$ 435.81
	MCI-3014		3	\$ 67.27		\$ 14.40	\$ 201.81
	MCI-0120		3	\$ 15.36		\$ 3.16	\$ 46.08
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
				\$ -		\$ -	\$ -
PRIME EQUIPMENT SUBTOTAL							\$ 683.70
MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
						\$ -	
						\$ -	
						\$ -	
						\$ -	
						\$ -	
PRIME MATERIALS SUBTOTAL							\$ -
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ 827.28
PRIME SUBTOTAL							\$ 2,198.18

SUBCONTRACTOR LAB	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
SUBCONTRACTOR LABOR SUBTOTAL							\$ -	
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP							\$ -	
SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	SUBCONTRACTOR EQUIPMENT SUBTOTAL							\$ -
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
							\$ -	
							\$ -	
							\$ -	
							\$ -	
SUBCONTRACTOR MATERIALS SUBTOTAL							\$ -	
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ -	
SUB/SERVICE	SUBCONTRACTOR / SERVICE	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION		
						\$ -		
						\$ -		
SUBCONTRACTOR INVOICE TOTAL							\$ -	
SUBCONTRACTOR SUBTOTAL							\$ -	
PRIME CONTACTOR MARKUP AT 12%							\$ -	
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP							\$ -	

Force Account Sheet By:	Approval of Force Account Worked:	SHEET TOTAL: \$ 2,198.18
NAME HERE, KPG Office Engineer	DATE	NAME HERE, KPG Resident Engineer
		DATE

**Marshbank Construction Inc.
Foreman's Report of Force Account Worked**

5113

Date	4/21/21	Job #	70418
Weather		Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):

Saw cut and remove asphalt edge where existing panels joints
we raising edge to fall out. Also where existing pavement is failing.
Plus removal of asphalt & concrete.

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
3	Robert L	3	Cat 308
3	Will W	3	320 loader
3	Tyler R	3	Foreman's truck
3	Dustin		
3	Tim P		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor
			Salinas Saw Cutting

Signature: _____

Date Completed: _____

DAILY REPORT OF FORCE ACCOUNT WORKED

Project Name: EMWO	Project No: 14015	Date: 4/22/2021
Bid Item: 01 - Minor Change		Pay Est: 2
Description of Work: At existing structure tie (STA 2+77.26) we dug up to tie in 12" PVC pipe and water started leaking out of structure at seam between base and first barrel section. It flooded out trench. Due to this we had to work 2 hours overtime.		
Prime Contractor: Marshbank		Sub-Contractor: N/A

PRIME LABOR	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	Chris Rammage	SUPERINTENDENT / OPERATOR - ZONE 1/GROUP 1+ (MCI TRADE 11S)	3	\$ 89.76		\$ 121.90	\$ 269.28
	William Lindstrom	PIPELAYER & CAULKER - ZONE 1/GROUP 4 (MCI TRADE 4)	3	\$ 63.01		\$ 85.75	\$ 189.04
	William Watkins	GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)	3	\$ 61.83		\$ 84.03	\$ 185.49
	Darren Mcintosh	LABORER 70% OF GENERAL LABORER (1001-2000 HOURS) (MCI TRADE 16B)	3	\$ 47.69		\$ 63.53	\$ 143.06
	Timothy Peltier	BACKHOE, EXC.-15 TO 30 MT, LOADER - ZONE 1/GROUP 2 + \$2.00 (MCI TRADE 8A)	3	\$ 86.54		\$ 115.75	\$ 259.62
	Arron Elton	7F)	3	\$ 86.71		\$ 116.01	\$ 260.14
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
PRIME LABOR SUBTOTAL							\$ 1,306.63
PRIME LABOR TOTAL INCLUDING 31% MARKUP							\$ 1,711.69

PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
	MCI-1028		2	\$ 24.17		\$ 31.71	\$ 48.34	
	MCI-3014		2	\$ 67.27		\$ 14.40	\$ 134.54	
	MCI-0120		2	\$ 15.36		\$ 3.16	\$ 30.72	
	MCI-1020		2	\$ 145.27		\$ 16.80	\$ 290.54	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	PRIME EQUIPMENT SUBTOTAL							\$ 504.14
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
						\$ -		
						\$ -		
						\$ -		
PRIME MATERIALS SUBTOTAL							\$ -	
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ 610.01	
PRIME SUBTOTAL							\$ 2,321.70	

SUBCONTRACTOR LABOR	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
SUBCONTRACTOR LABOR SUBTOTAL							\$ -
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP							\$ -

SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	SUBCONTRACTOR EQUIPMENT SUBTOTAL							\$ -
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
							\$ -	
							\$ -	
							\$ -	
	SUBCONTRACTOR MATERIALS SUBTOTAL							\$ -
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ -	

SUB/SERVICE	SUBCONTRACTOR / SERVICE	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION
						\$ -
						\$ -
SUBCONTRACTOR INVOICE TOTAL						\$ -
SUBCONTRACTOR SUBTOTAL						\$ -
PRIME CONTACTOR MARKUP AT 12%						\$ -
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP						\$ -

Force Account Sheet By:	Approval of Force Account Worked:	SHEET TOTAL: \$ 2,321.70
NAME HERE, KPG Office Engineer	De: NAME HERE, KPG Resident Engineer	Date

**Marshbank Construction Inc.
Foreman's Report of Force Account Worked**

5111

Date	4/22/21	Job #	70118
Weather		Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):
 At existing structure tie (Sta# 2177.26) we dug up to tie-in
 12" pvc pipe and water starting leaking out of structure @ seam
 Between Base & first barrel section. It flooded out trench.
 Due to this we had to work 2 hrs overtime

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
3	Chris P	2	238 ex
3	Will L	2	320 loader
3	Will W	2	Foreman's truck
3	Darren	2	cat 308 ex
3	Tim		
3	Aaron		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor

Signature: _____

Date Completed: _____

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507

April 2, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 7.1

Mr. North,

Marshbank Construction Inc. (Marshbank) is providing the following Change Order Proposal for your consideration. This proposal is associated with the revised design change (EMWO Design Issue, FWD 001.1) received via email from KPG on 3/29/2021.

Design Change EMWO - Proposal Breakdown:

- **Replacing Monument**
 - Removal and reinstallation of survey monument adjacent to Structure #19. This is an activity taking place post paving, includes coring sub, purchase of monument related construction materials, labor, trucking, applicable dump fees. **Pay half on PE#2 and the rest once complete. \$4282/2= \$2,141.**
 - \$4,282.00
- **Added Striping Install/Removals and Subsequent Layout**
 - The FWD design alignment shifted work activities into previously unaffected channelization requiring new RPM'S, removal for saw-cutting, and added layout for striping otherwise not contemplated in our original bid proposal. Includes labor, subcontractor's added costs, small tools, and applicable dump fees.
 - \$ 3176.00 **Pay once complete. Minus striping at \$3176.00**
- **Modular Structure Relocation/Added Saw-cutting/Safety Shoulder**
 - This incorporates added saw-cutting and additional hardscape removals for the modular structure restricted to actual affected area by pipe or structure/shoring (#100). If any hardscapes outside of the area are determined not suitable to remain, this work is expected to be measured and paid per bid item at the same time Marshbank is onsite concurrently working. Additionally, this change has the potential to construct a safety shoulder of rock (20 tons) assumed, sacrificial material, as the proximity of the live lane with traffic is closure to the trench than originally designed.
 - \$26,050 **-630.20 per email from Rob @ MB on 5/6/21 = \$25,419.80**
- **Additional Days/Overhead**
 - (6) Added working days needed to facilitate these changes. This covers additional management overhead for the added days, project oversight, schedule updates, supplier coordination, etc.
 - \$10,708.00 **1 day at confirmed rate established in SL 8 = \$3306.60**
- **Structures 21, 24, 25 and added 4' of trench width and Incidentals**
 - From the STA 11+21 to 12+57, this design change added ~4' width to a trench excavation bid at ~2.5 for the 4" force main. This price compensates ~136 LF of increased incidentals to the trench section. Specifically, pipe zone bedding, excavation of hardscapes, haul, and backfill. Original structures #25, #24, and #21 have been either deleted or adjusted resulting in (2) new structures being ordered and dump fees calculated for the original structures. The pricing accounts for the additional hardscapes removal in this area not quantified in our original bid price.
 - \$10981.00 **No payment to BI #37. Agreed to pay \$10,981.00 per letter & pricing.**

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

- **Structures #25 - #34 Restoration**

- This pricing replaces the temporary filling of CSBC previously paid on SL 8.1 to prep and remove for bid item hardscape restoration.
 - \$2,036.00 **Agreed to pay \$2036 per letter & pricing attached**

Bid Item #2 ESC (Lump Sum Item) - \$1,500 (Daily Lump Sum rate multiplied by ~~6~~) **add 1ea on BI 2 & 5.**
Bid Item #5 PTTC (Lump Sum Item) - \$7,500 (Daily Lump Sum rate multiplied by ~~6~~)

BI #2 LSBSD = \$166.67/day; BI #5 = \$1000.00/day Adding 1 day = \$1166.67 paid on SL #9 to PE#2.

FWD 001.1 Total ~~\$64,668.41~~ **Pay SL #9 on PE#2 total of bulleted items = \$50,200.04 JMN.**
Additional LS items ~~-\$9,000~~ **Future payment on Striping and Completion of Monument = \$5317.**

Marshbank offers a price of ~~\$71,075.00~~ related to FWD 001.1. This price includes all itemized pricing breakdowns above to capture all changes based on the design change presented on 3/29/21. At this time Marshbank is excluding both pothole restoration outside of affected areas within the old alignment and the sealing of existing sawcut until a time where direction and procedure can be evaluated and agreed upon for both feasibility and longevity. Please note the pipe removal item (below) is a unit-based item to be used as encountered and within the language specified. KPG is to use this unit price to create an additional unit price bid item for pipe removal if encountered.

- **Pipe Removal Per Foot**

- Marshbank is using 100' feet as a quantity guideline as this amount cannot be quantified with this change accurately. This pricing includes excavation of 12" PVC/Concrete conflicting nonactive pipe within the neat line of proposed storm excavation. The pricing reflects our assumption that the entire pipe does require CDF filling. Marshbank will grout any open ends. If a full pipe fill is required this would be a change to this pricing. The minimum footage for payment if pipe is encountered will be 20' for this pricing to be acceptable.
 - \$66.80 Per LF **Per email 4/30/21 Rob requested 20' "Resulting in one payment of \$1,336.00."**

Below is a list of assumptions

- Marshbank has approval to continually take the three middle lanes day and night as this work has pushed edges and cuts towards to outside of lane lines. If permissions are revoked for any reason, current traffic control pricing will no longer be valid. Repricing and any stoppage as a result of this could become costly.
- As the hatches and lids have moved, any alignment or wheel path issues is accepted and City of Tukwila has ownership of the design.
- Marshbank makes no warranty that the note "SET MODULAR WETLAND AS NEAR AS PRACTICAL" to field fit works with current design changes and any issue arising from structure #100 will be tracked daily including any work stoppages as well as City of Tukwila accepts risk of pipe alignment/angles with this note.
- Encountered utility sand encroaching as a result of proximity of Zayo comm line will be tracked via force account and any loss production.
- Encountered sand undermining adjacent roadway and additional "T-Cut" or restoration will be directed by KPG/Tukwila and tracked via force account.
- Marshbank is not liable for any design that increased the max tolerance of allowed deflection for the approved piping.
- Any supporting of the comm line will be tracked via force account.
- All Concrete Panel replacement is per bid item
- All HMA replacement is per bid item
- Backfilling structure #100 area with CSBC paid per ton except safety buffer.

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

- Pipe removal is paid per newly created bid item with a minimum of 20' if encountered for payment.
- If unsuitable is encountered in this area any unsuitable is replaced via CSBC per ton related to 7-08.3(1)A.

Marshbank requests a change order be written in the amount of **\$74,818.00** and a unit price bid item created for pipe removal to be used if and when encountered. Marshbank requires an additional (6) working days to complete this change.

Should you have any questions regarding this serial letter please contact me at (425) 209-8225

Regards,



Rob Gammell
Marshbank Construction Inc.

Cost for Item 450

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Perm Labor	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 450 CLIENT# = 45									
Description =	PCO--DESIGN CHANGE 3-30-21 REVISED		Unit =	LS	Takeoff Quan:	1.000	Engr Quan:		1.000
20462	REPLACING MONUMENT AND MATERIALS/SUR		Quan:	1.00 LS	Hrs/Shft:	8.00	Cal: 508	WC: NONE	
<u>PIADI</u>	Adjust to grade crew		4.00 CH	Prod:	4.0000 CH	Lab Pcs:	2.00	Eqp Pcs:	3.00
2SA008	Monument@110%	1.00	1.00 EA	350.000		385			385
4SAW	Sawing sub	1.00	1.00 EA	500.000				500	500
4SURVY	Survey sub	1.00	1.00 LS	2,500.000				2,500	2,500
8BA416B	Backhoe-420 - 3017	1.00	4.00 HR	40.140			161		161
8CO160	Air Compressor 160 cfm	1.00	4.00 HR	16.200			65		65
8TRFRMN	Foremans Truck w/tools	1.00	4.00 HR	17.520			70		70
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249
OPF	Operator-(Foreman)	1.00	4.00 MH	54.520	352				352
\$4,281.69	8.0000 MH/LS		8.00 MH	[381.16]	601	385	295	3,000	4,282
10010	STRIPING CHANGES		Quan:	1.00 DAY	Hrs/Shft:	8.00	Cal: 508	WC: NONE	
<u>EAEX02</u>	200 Exc, Grade Chkr		4.00 CH	Prod:	0.5000 S	Lab Pcs:	2.00	Eqp Pcs:	0.00
3GY76	Small Tools@110%	1.00	1.00 LS	75.000		83			83
4STP	Striping sub	1.00	1.00 LS	2,600.000				2,600	2,600
LABGEN	Laborer-(Group 3)	1.00	4.00 MH	39.810	244				244
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249
\$3,175.65	8.0000 MH/DAY		8.00 MH	[322.32]	493		83	2,600	3,176
21761	MOD STRUCTURE AREA HARDSCAPE REMOVA		Quan:	80.00 CY	Hrs/Shft:	8.00	Cal: 508	WC: NONE	
940 SQFT ADDED- LANE LOADING DIFFICULTIES WITH FWD 1.1									
<u>PI2000</u>	Pipe Crew <12", <8' Deep		10.00 CH	Prod:	8.0000 UH	Lab Pcs:	5.00	Eqp Pcs:	3.00
2AGQBC	CSBC Crushed Surf@110	1.00	20.00 TN	9.000		198			198
3HAUL	Hauling Sub@110%	1.00	23.00 HR	175.000		4,428			4,428
4SAW	Sawing sub	1.00	670.00 LF	20.000				13,400	13,400
4SURVY	Survey sub	1.00	1.00 LS	1,550.000				1,550	1,550
8BA416B	Backhoe-420 - 3017	1.00	10.00 HR	40.140			401		401
8EX200	Excavator-EX228 - 1022	1.00	10.00 HR	105.230			1,052		1,052
8TRFRMN	Foremans Truck w/tools	1.00	10.00 HR	17.520			175		175
9ASPHALT	Asphalt Dump Fees	1.00	65.00 CY	8.000		520			520
9CONCRETE	Concrete Dump Fees	1.00	65.00 CY	8.000		520			520
LABPL	PipeLayer-Gr Checker (Gro	2.00	20.00 MH	40.770	1,244				1,244
OP2	Operator-(Group 1)	2.00	20.00 MH	51.020	1,681				1,681
OPF	Operator-(Foreman)	1.00	10.00 MH	54.520	881				881
\$26,050.10	0.6250 MH/CY		50.00 MH	[29.763]	3,806	198	5,468	1,629	14,950
10001	ADDITIONAL MANAGEMENT-TRACKING CHAN		Quan:	6.00 DAY	Hrs/Shft:	8.00	Cal: 508	WC: NONE	
<u>SUP01</u>	Superintendent		48.00 CH	Prod:	8.0000 HU	Lab Pcs:	2.50	Eqp Pcs:	2.50
3GY11	Utilities, Field @110%	1.00	6.00 DAY	100.000		660			660
8TRPU	Pick up	2.00	96.00 HR	15.330			1,472		1,472
8TRSUPT	Truck-Supt.-PM-Est.(No	0.50	24.00 HR	17.520			420		420
SUG	Superintendent-(General)	0.50	24.00 MH	66.520	2,410				2,410
SUPENG	Project Engineer	1.00	48.00 MH	37.000	2,471				2,471
SUPM	Project Manager	1.00	48.00 MH	50.500	3,275				3,275
\$10,708.19	20.0000 MH/DAY		120.00 MH	[966.08]	8,156		660	1,892	10,708
20472	REMOVE PIPE PER FOOT-MINIMUM 20'		Quan:	100.00 LF	Hrs/Shft:	8.00	Cal: 508	WC: NONE	
<u>EAEX01</u>	200 Exc,D5, Grade chkr		8.00 CH	Prod:	12.5000 UH	Lab Pcs:	5.50	Eqp Pcs:	2.00
2C002A	3000PSI@110%	1.00	0.50 CY	100.000		55			55
4HAUL	Hauling Subcontractor	1.00	8.00 HR	175.000				1,400	1,400
8EX200	Excavator-EX228 - 1022	1.00	8.00 HR	105.230			842		842

Cost for Item 450

Activity Resource	Desc	Quantity Pcs	Unit	Unit Cost	Perm Labor	Constr Material	Equip Matl/Exp	Sub-Contract	Total
BID ITEM = 450 CLIENT# = 45									
Description =	PCO--DESIGN CHANGE 3-30-21 REVISED		Unit =	LS	Takeoff Quan:		1.000	Engr Quan:	1.000
8TRFRMN	Foremans Truck w/tools	1.00	8.00 HR	17.520				140	140
9STORM	Storm Dump Fee	1.00	15.00 CY	8.000			120		120
LABGEN	Laborer-(Group 3)	1.00	8.00 MH	39.810	489				489
LABPL	PipeLayer-Gr Checker (Gro	1.00	8.00 MH	40.770	498				498
OP2	Operator-(Group 1)	2.00	16.00 MH	51.020	1,344				1,344
OPF	Operator-(Foreman)	1.00	8.00 MH	54.520	705				705
SUPENG	Project Engineer	0.50	4.00 MH	37.000	206				206
\$5,798.48	0,4400 MH/LF		44.00 MH	[20.451]	3,241	55	120	982	1,400
70005	STRUCT RESTORE 34/25-PREP FOR HARDSCAPE	Quan:	1.00 LS	Hrs/Shft:	8.00	Cal:	508	WC:	NONE
EAEX04	320 Exc. and Grade chkr		4.00 CH	Prod:	4.0000 HU	Lab Pcs:	2.00	Eqp Pcs:	1.00
4HAUL	Hauling Subcontractor	1.00	4.00 HR	175.000				700	700
8EX233	Excavator-CAT 328 - 10	1.00	4.00 HR	127.880				512	512
9DIRT	Dirt Dump Fees	1.00	30.00 CY	8.000			240		240
LABPL	PipeLayer-Gr Checker (Gro	1.00	4.00 MH	40.770	249				249
OP2	Operator-(Group 1)	1.00	4.00 MH	51.020	336				336
\$2,036.45	8.0000 MH/LS		8.00 MH	[367.16]	585		240	512	700
41480-03	MH-21, MH-24, ADDITONAL WIDTH 4" REMOVA	Quan:	1.00 LS	Hrs/Shft:	8.00	Cal:	508	WC:	NONE
RESTOCKING/DEMO RELOADING OFFSITE HAULING TO DUMP AND RETURN TO HOME BASE									
PI4000	Pipe crew 400		8.00 CH	Prod:	8.0000 HU	Lab Pcs:	5.00	Eqp Pcs:	4.00
2AGQBC	CSBC Crushed Surf@110	1.00	90.00 TN	9.000	891				891
2PCS026	Type 242 48"@110%	1.00	2.00 EA	457.000	1,005				1,005
4HAUL	Hauling Subcontractor	1.00	14.00 HR	175.000				2,450	2,450
8EX070	Excavator-CAT 308 - 10	1.00	8.00 HR	50.330				403	403
8EX200	Excavator-EX228 - 1022	1.00	8.00 HR	105.230				842	842
8LO924	Loader- 3016	1.00	8.00 HR	51.360				411	411
8TOOLJJ	Jumping Jack	1.00	8.00 HR	8.000				64	64
9ASPHALT	Asphalt Dump Fees	1.00	30.00 CY	8.000			240		240
9CONCRETE	Concrete Dump Fees	1.00	30.00 CY	8.000			240		240
9DIRT	Dirt Dump Fees	1.00	75.00 CY	8.000			600		600
9STORM	Storm Dump Fee	1.00	1.00 LS	800.000			800		800
LABGEN	Laborer-(Group 3)	1.00	8.00 MH	39.810	489				489
LABPL	PipeLayer-Gr Checker (Gro	1.00	8.00 MH	40.770	498				498
OP2	Operator-(Group 1)	2.00	16.00 MH	51.020	1,344				1,344
OPF	Operator-(Foreman)	1.00	8.00 MH	54.520	705				705
\$10,981.32	40.0000 MH/LS		40.00 MH	[1897.12]	3,036	1,896	1,880	1,719	2,450
====> Item Totals:	450 - PCO--DESIGN CHANGE 3-30-21 REVISED								
\$63,031.88	278.0000 MH/LS		278.00 MH	[13190.36]	19,918	2,534	8,450	7,029	25,100
63,031.880	1 LS				19,918.10	2,534.40	8,450.00	7,029.38	25,100.00
\$63,031.88	*** Report Totals ***		278.00 MH		19,918	2,534	8,450	7,029	25,100

>>> indicates Non Additive Activity

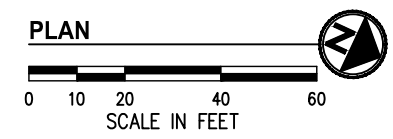
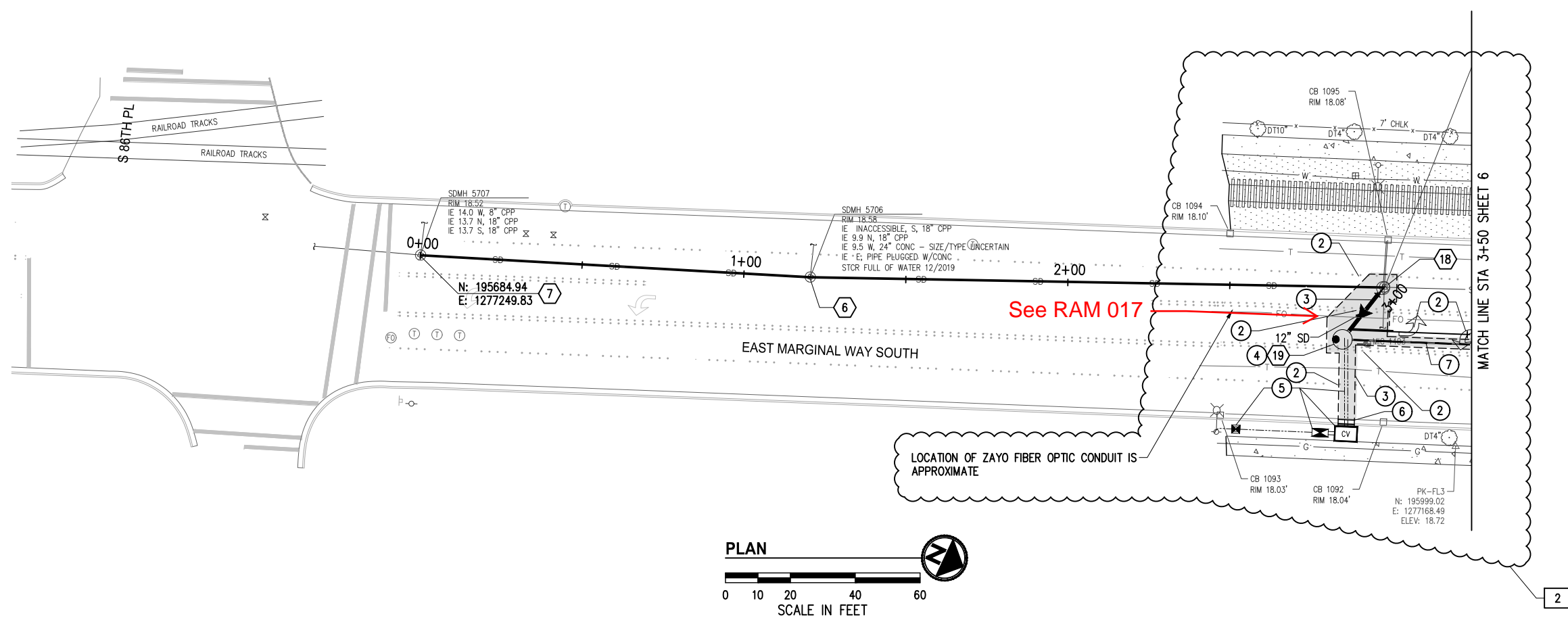
Holding account totals will not be added to the report totals because the distribution is instead added to the various bid items.

-----Report Notes:-----

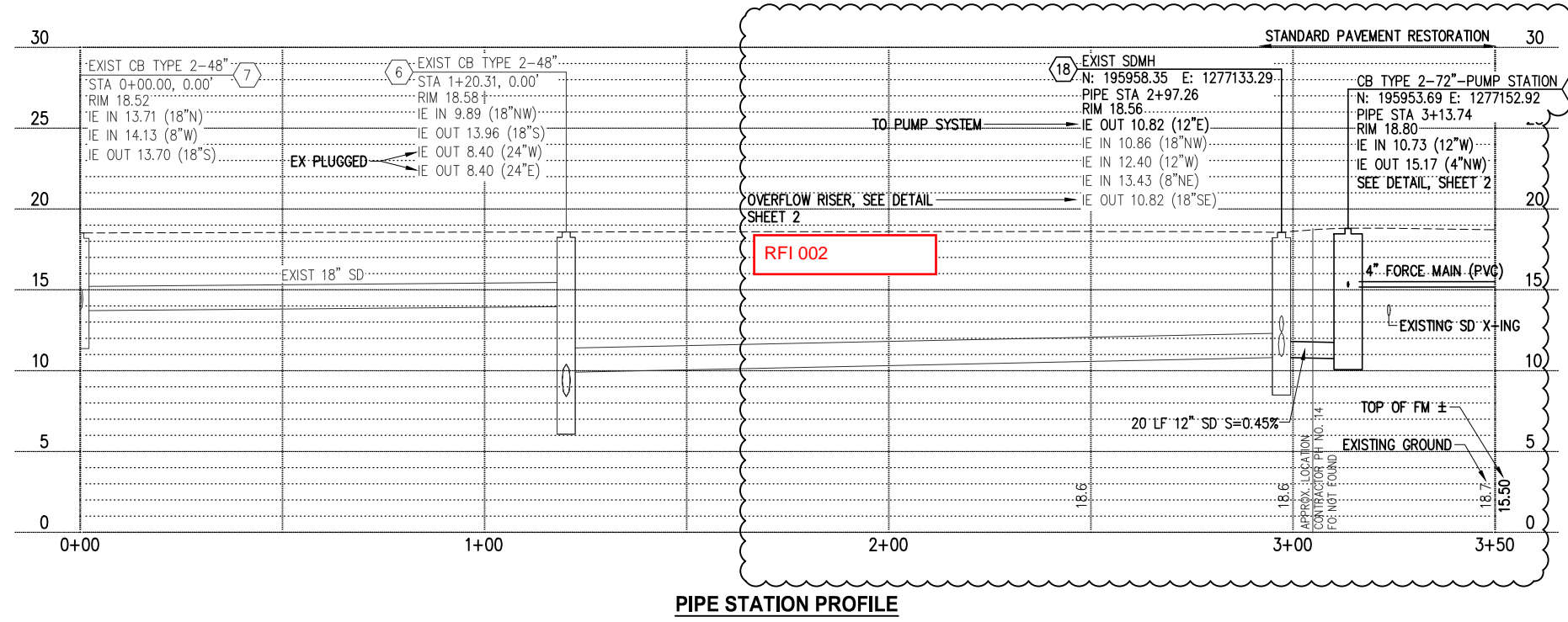
The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

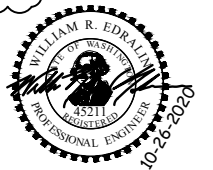
'Unreviewed' Activities are marked.



- GENERAL NOTES**
1. STORM DRAINAGE LOCATIONS ARE TO CENTER OF THE STRUCTURE.
 2. PIPE INVERTS ARE SPECIFIED TO THE PROJECTED CENTER OF STRUCTURE.
 3. TYPE 2 CATCH BASINS SHALL HAVE 24" SOLID FRAME WITH COVER PER CITY OF TUKWILA STANDARD PLAN NO. DS-09 UNLESS OTHERWISE NOTED.
 4. CONFIRM INVERTS OF STORM DRAIN AT EXISTING STRUCTURES PRIOR TO LAYING PIPE. NOTIFY ENGINEER OF ANY DIFFERENCES.
 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND POT-HOLE THE EXACT LOCATION.
 6. WHEN THE VERTICAL CLEARANCE BETWEEN UTILITIES IS LESS THAN 6" (MIN), PROVIDE AN OD X OD X 2.5" POLYETHYLENE PLASTIC FOAM PAD BETWEEN UTILITIES, WHERE OD IS THE OUTSIDE DIAMETER OF THE LARGER PIPE.
 7. ELECTRICAL AND SYSTEM CONTROLS TO BE DESIGNED BY PUMP MANUFACTURER AND CONTROL SYSTEM SUPPLIER.
 8. FORCE MAIN SHALL BE CONSTRUCTED PER PIPE MANUFACTURERS RECOMMENDATIONS FOR FITTINGS/RESTRAINTS AND DEFLECTION ANGLES.
 9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
 10. **PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.



- CONSTRUCTION NOTES**
- 1 REMOVE OR ABANDON EXISTING STORM DRAIN PIPE.
 - 2 REPLACE EXISTING ROADWAY MARKINGS.
 - 3 TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
 - 4 INSTALL FLOW SPLITTER AND PUMP STATION IN 72" DIAMETER STRUCTURES, SEE DETAIL SHEET 2.
 - 5 SEE ELECTRICAL DETAILS FOR PUMP POWER AND CONTROLS.
 - 6 REMOVE AND REPLACE NEW CURB AND GUTTER.
 - 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 - 18 REMOVE AND REPLACE EXISTING MONUMENT.



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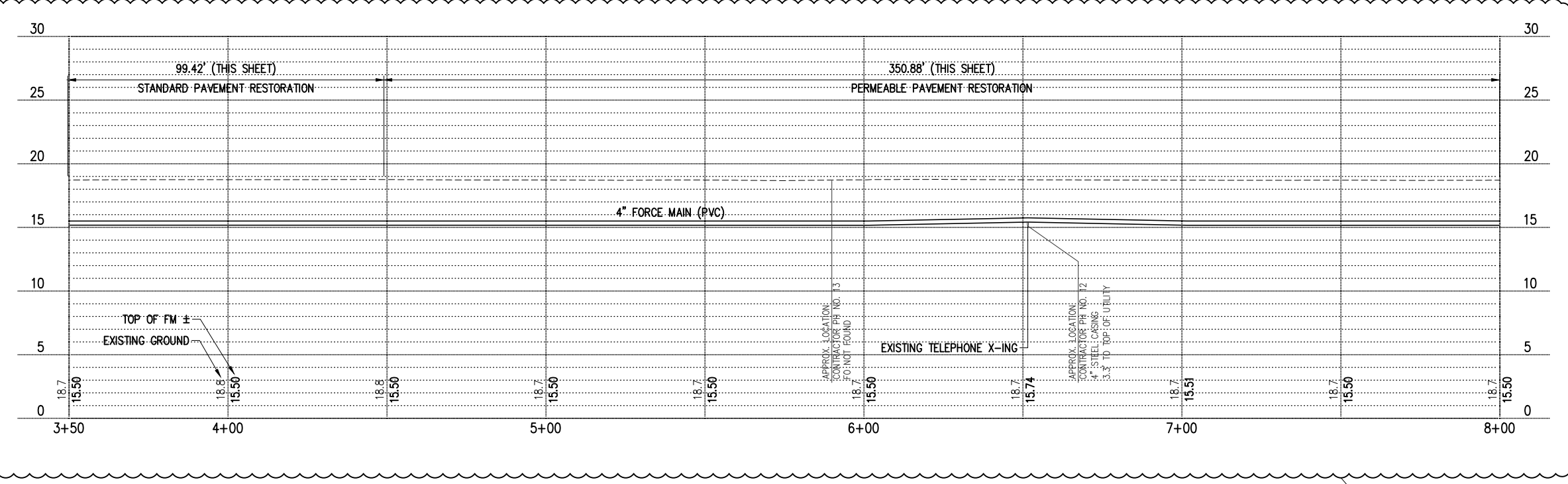
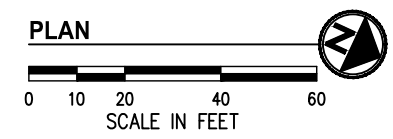
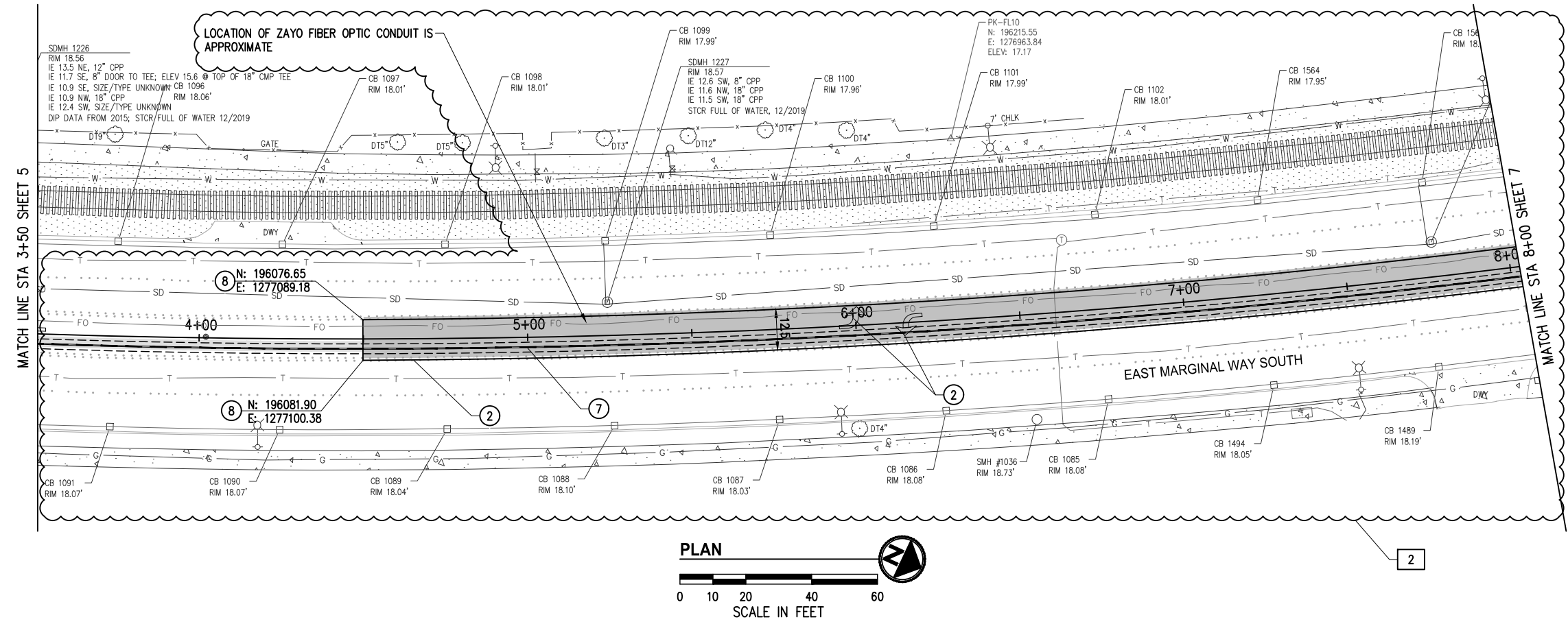
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GENERAL NOTES

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9. CONTRACTOR TO PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL TO PREVENT SEDIMENT-LADEN RUNOFF DUE TO CONSTRUCTION ACTIVITY FROM ENTERING THE EXISTING STORM DRAIN SYSTEM.
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CONSTRUCTION NOTES

- 2 REPLACE EXISTING ROADWAY MARKINGS.
- 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- 8 REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.



PIPE STATION PROFILE

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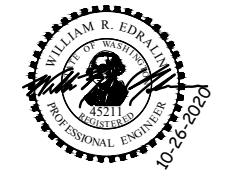
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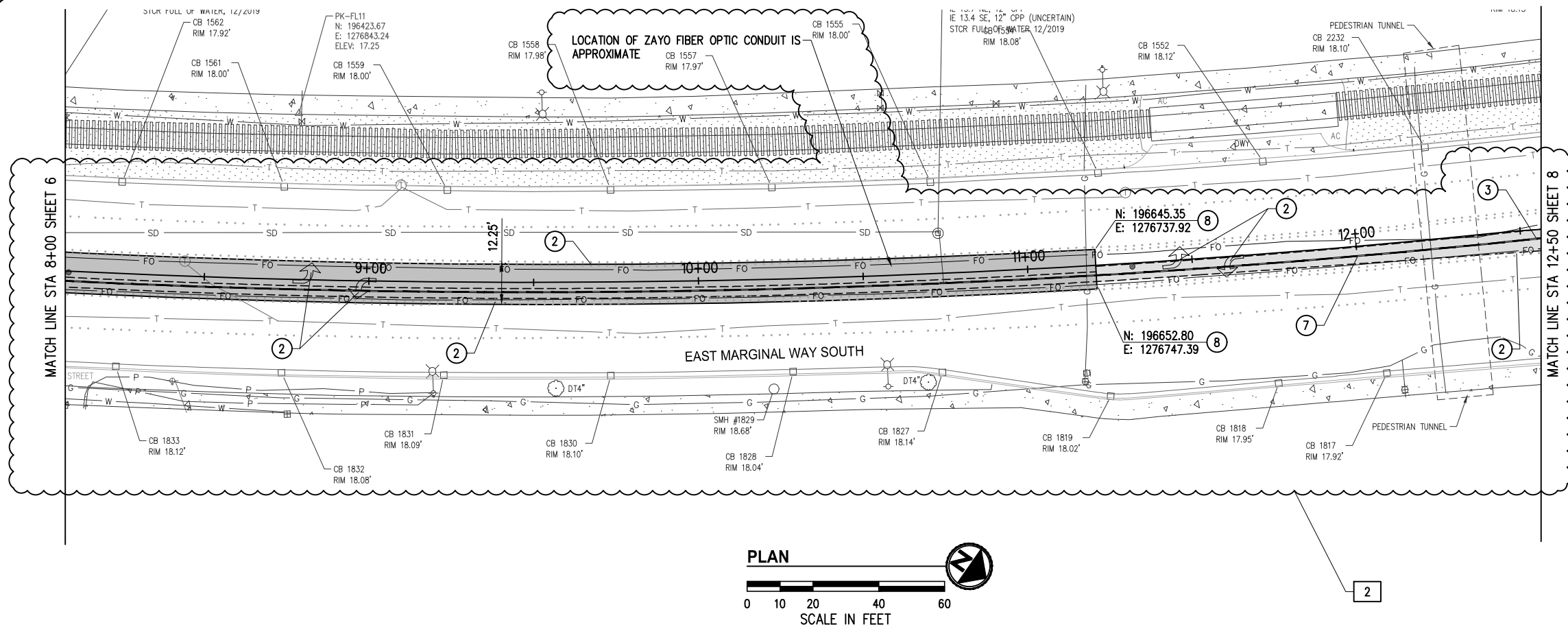
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DRAINAGE PLANS**

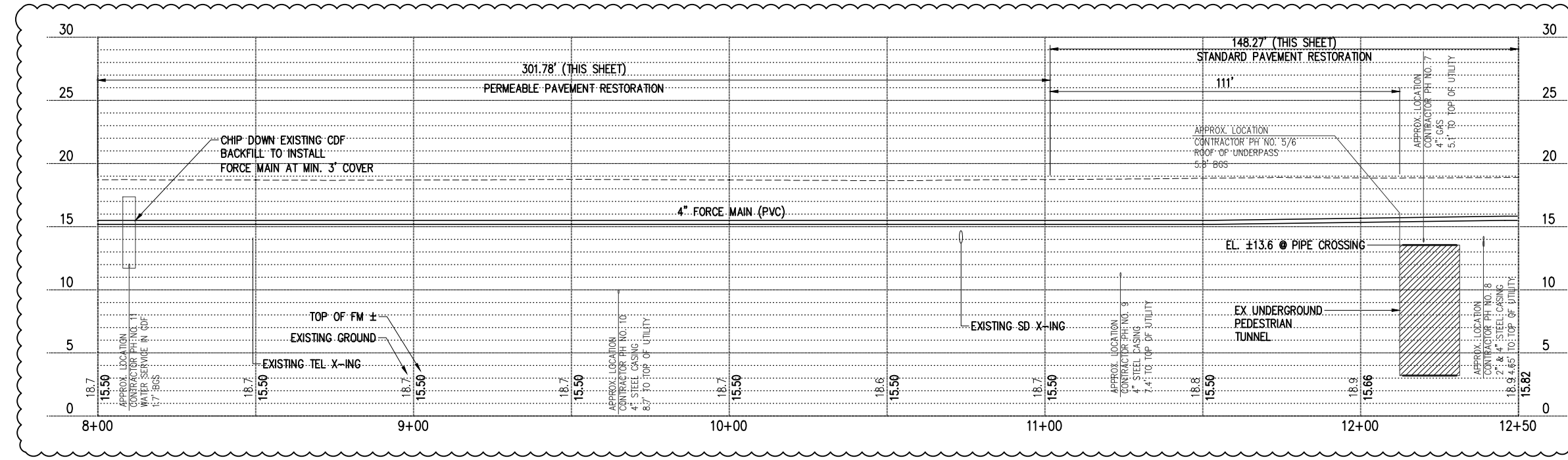
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- CONSTRUCTION NOTES**
- 2 REPLACE EXISTING ROADWAY MARKINGS.
 - 3 TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
 - 7 INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
 - 8 REMOVE EXISTING PAVEMENT SECTION AND INSTALL PERMEABLE PAVEMENT SECTION, SEE DETAIL SHEET 3.



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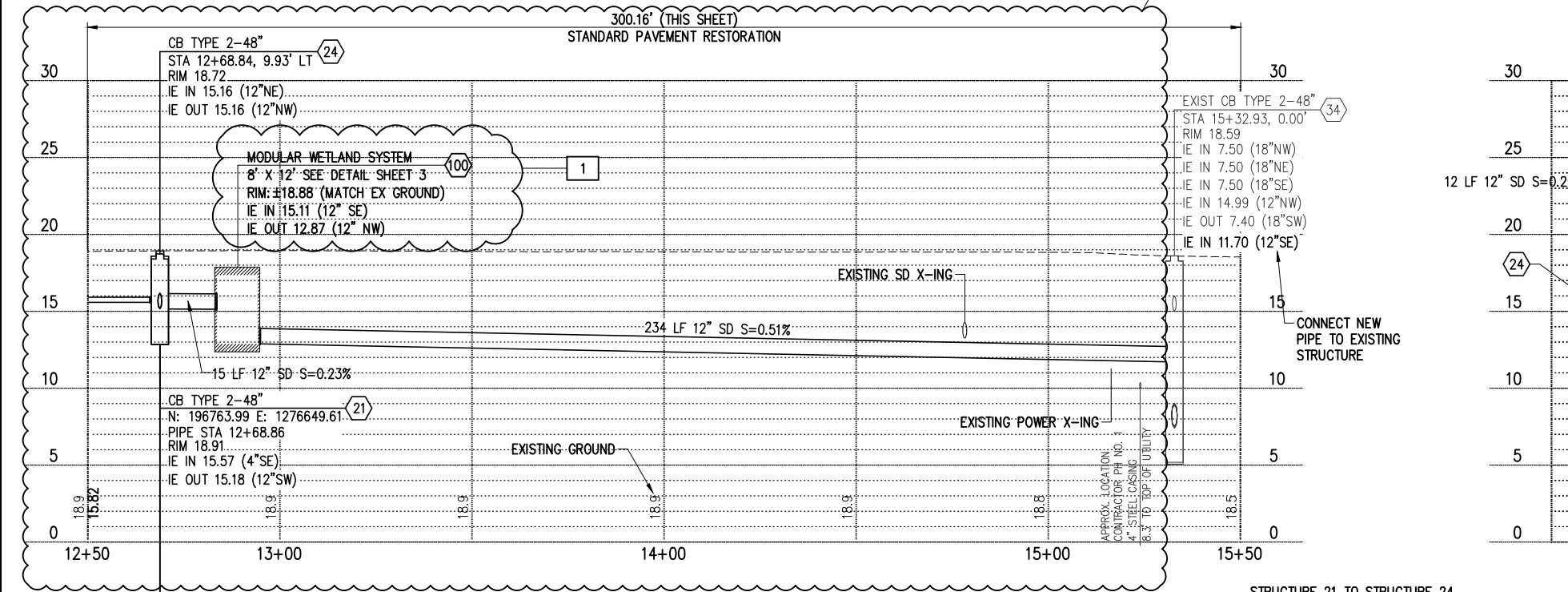
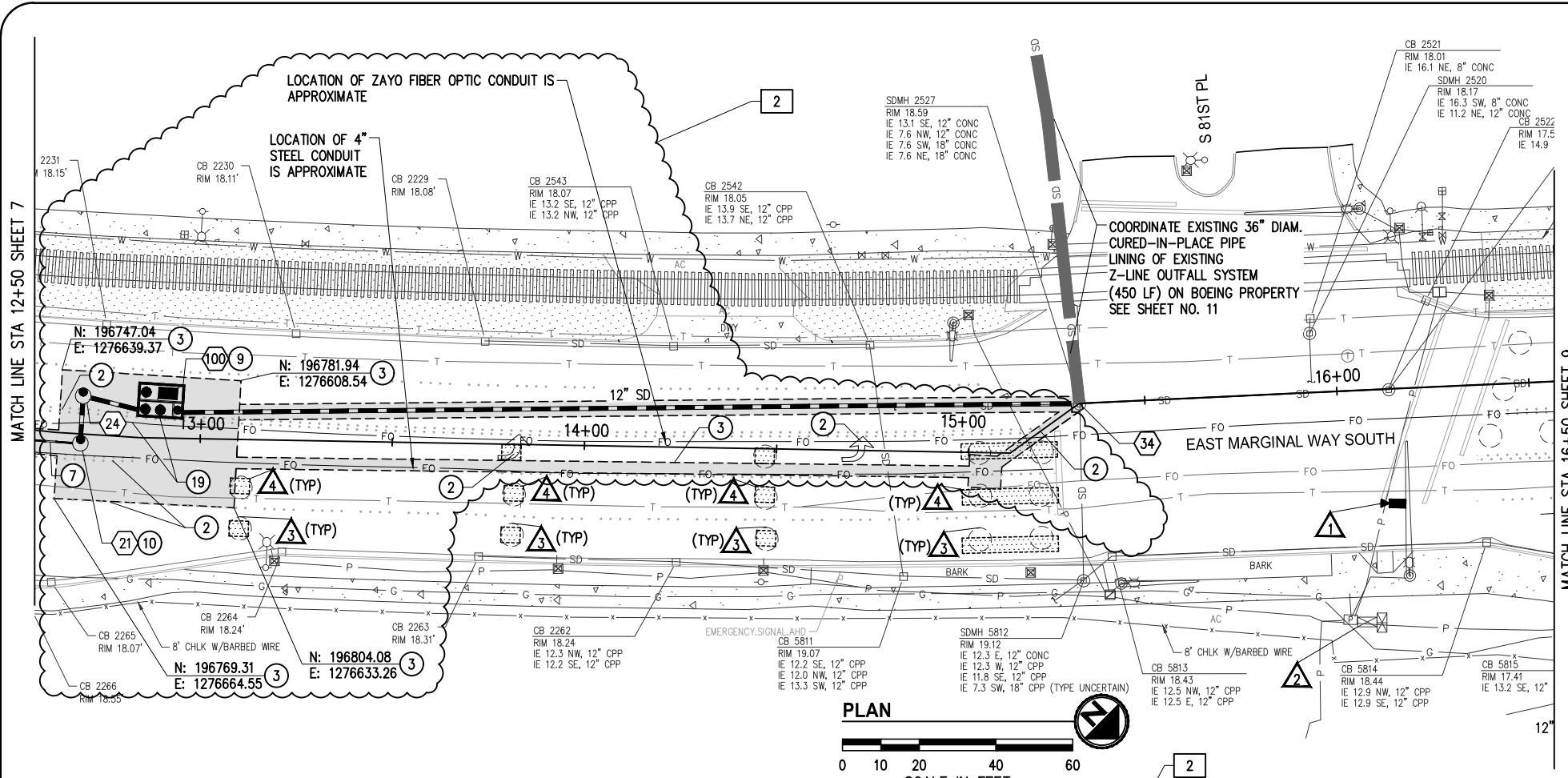
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GENERAL NOTES

- FOR GENERAL NOTES 1-9 SEE PREVIOUS SHEET.
- PROTECTION OF THE ENVIRONMENT:** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

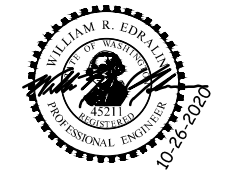
- REPLACE EXISTING ROADWAY MARKINGS.
- TRENCH AND PAVEMENT RESTORATION FOR STORM DRAIN PIPE PER CITY OF TUKWILA STANDARD DETAIL NO. DS-14B.
- INSTALL 4" FORCE MAIN (PVC 900), SEE DETAIL SHEET 3 FOR TRENCH AND PAVEMENT RESTORATION.
- INSTALL WATER QUALITY TREATMENT VAULT, SEE DETAIL SHEET 3.
- INSTALL DROP CONNECTION INSIDE STRUCTURE WITH CHANNEL BOTTOM. SEE DETAIL SHEET 2 FOR DISCHARGE PIPING.
- POTHOLES REVEALED SIGNIFICANT ALIGNMENT SHIFT IN ZAYO CONDUIT IN THIS AREA. SET MODULAR WETLAND AS NEAR AS PRACTICAL TO ZAYO DUCT BASED ON ACTUAL FIELD LOCATION.

SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT CITY TRAFFIC OPERATIONS AND MAINTENANCE DEPARTMENT REPRESENTATIVE TIM KIRKLAND AT (206) 730-8476 FOR ALL RELATED TRAFFIC SIGNAL COORDINATION.
- CONSTRUCTION MANAGEMENT REPRESENTATIVE SHALL BE INFORMED OF ALL COORDINATION WHICH POTENTIALLY AFFECTS THE PROJECT TIMELINE OR COST.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATION AND MAINTENANCE DEPARTMENT REPRESENTATIVE AT LEAST 10 WORKING DAYS IN ADVANCE OF LOOP REMOVAL AND DISCONNECTION. ALL TWISTED PAIR LOOP WIRE SHALL BE DISCONNECTED AT THE JUNCTION BOX SPLICE POINT PRIOR TO SAWCUT FOR PAVEMENT REMOVAL. ALL LEAD-IN CABLES IN JUNCTION BOX SHALL BE LABELED PRIOR TO LOOP DISCONNECTION.
- THE LOCATION OF ALL FEATURES SHOWN ON THESE PLANS IS APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIGNAL RELATED EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS, CITY STANDARDS, STANDARD SPECIFICATIONS, LATEST AMENDMENTS TO SPECIAL PROVISIONS AND THESE PLANS. WHEN IN CONFLICT, ENGINEER SHALL DETERMINE APPLICABLE APPROVED STANDARDS.

SIGNAL CONSTRUCTION NOTES

- FURNISH AND INSTALL VIDEO DETECTION CAMERA ON MAST ARM. MOUNT PER MANUFACTURER'S SPECIFICATIONS (EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE). FURNISH AND INSTALL VIDEO CABLING TO CONTROLLER (ROUTE OF CABLING SHALL BE DETERMINED IN THE FIELD). SEE SPECIAL PROVISIONS.
- LOCATION OF EXISTING TRAFFIC CONTROLLER CABINET. EDGE 2 CARD AND LCD MONITOR SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY THE CITY. JOURNEY LEVEL WORK IN THE CABINET, INCLUDING FIELD WIRING TERMINATION IS ALLOWED IN THE PRESENCE OF THE TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE. SEE SPECIAL PROVISIONS.
- EXISTING VEHICLE INDUCTION LOOPS SHALL BE ABANDONED. EXISTING HOME RUN 2CS WIRING TO CONTROLLER SHALL REMAIN. LABEL LOOP WIRES AND DISCONNECT LOOP SPLICES IN THE JUNCTION BOX PRIOR TO ANY SAW CUTTING OR GRINDING.
- VIRTUAL DETECTION ZONE SHOWN FOR REFERENCE ONLY. ALL FINAL ZONE LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CITY TRAFFIC MAINTENANCE DEPARTMENT REPRESENTATIVE.



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CITY OF TUKWILA

DAILY REPORT OF FORCE ACCOUNT WORKED

FA No.: **1**

Project Name: EMWO	Project No: 14015	Date: 4/19/2021
Bid Item: 04 - Resolution of Utility Conflicts		Pay Est: 2
Description of Work: Remediation of unsuitable base material at structure #19. No Bid item for unsuitable soils. Found unsuitable base material for setting pump station mit. - Matt North.		
Prime Contractor: Marshbank		Sub-Contractor: N/A

	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION	
PRIME LABOR	Chris Rammage	SUPERINTENDENT / OPERATOR - ZONE 1/GROUP 1F (MCI TRADE 11S)	2	\$ 89.76		\$ 121.90	\$ 179.52	
	William Lindstrom	PIPELAYER & CAULKER - ZONE 1/GROUP 4 (MCI TRADE 4)	2	\$ 63.01		\$ 85.75	\$ 126.02	
	William Watkins	GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)	2	\$ 61.83		\$ 84.03	\$ 123.66	
		-	2	\$ -		\$ -	\$ -	
	Darren McIntosh	LABORER 70% OF GENERAL LABORER (1001-2000 HOURS) (MCI TRADE 16B)	2	\$ 47.69		\$ 63.53	\$ 95.37	
	James Healey	TCS FOREMAN- ZONE 1/GROUP 2c (MCI TRADE 3A)	2	\$ 59.37		\$ 80.42	\$ 118.74	
	Timothy Peltier	(MCI TRADE 8A)	2	\$ 86.54		\$ 115.75	\$ 173.08	
		-		\$ -		\$ -	\$ -	
			\$ -		\$ -	\$ -		
PRIME LABOR SUBTOTAL							\$ 816.39	
PRIME LABOR TOTAL INCLUDING 31% MARKUP							\$ 1,069.47	
PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
	MCI-1029		2	\$ 115.22		\$ 6.62	\$ 230.44	
	MCI-3016		2	\$ 58.16		\$ 9.76	\$ 116.32	
	MCI-0120		2	\$ 15.36		\$ 3.16	\$ 30.72	
	MCI-0112		2	\$ 14.48		\$ 2.27	\$ 28.96	
	MCI-1023		2	\$ 77.92		\$ 30.10	\$ 155.84	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	PRIME EQUIPMENT SUBTOTAL							\$ 562.28
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
Invoice for 2x4 quarry spalls needed						\$ -		
						\$ -		
						\$ -		
PRIME MATERIALS SUBTOTAL							\$ -	
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ 680.36	
PRIME SUBTOTAL							\$ 1,749.83	
SUBCONTRACTOR LAB	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
SUBCONTRACTOR LABOR SUBTOTAL							\$ -	
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP							\$ -	
SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS		WORKING	RATE	STANDBY	RATE	EXTENSION	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
				\$ -		\$ -	\$ -	
	SUBCONTRACTOR EQUIPMENT SUBTOTAL							\$ -
	MATERIALS (add tax to unit price if applicable)		INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
Invoice from Silver Streak Needed						\$ -		
						\$ -		
SUBCONTRACTOR MATERIALS SUBTOTAL							\$ -	
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP							\$ -	
SUB/SERVICE	SUBCONTRACTOR / SERVICE	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION		
						\$ -		
						\$ -		
SUBCONTRACTOR INVOICE TOTAL							\$ -	
SUBCONTRACTOR SUBTOTAL							\$ -	
PRIME CONTACTOR MARKUP AT 12%							\$ -	
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP							\$ -	

Force Account Sheet By:	Approval of Force Account Worked:	
		SHEET TOTAL: \$ 1,749.83
NAME HERE, KPG Office Engineer	NAME HERE, KPG Resident Engineer	Date

**DAILY REPORT OF
FORCE ACCOUNT WORKED**



Project Name: EMWO

Project No: _____

Bid Item No.: _____

Date: 4.19.2021

Description of Work: Remediation of unsuitable base material at structure #19.

Prime Contractor: Marshbank Const.

Work by Subcontractor?: _____

Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME	OVERTIME	COMMENTS
		HOURS	HOURS	
Chris Ramnago	Foreman	2		
Will Lindstrom	Operator	2		
Will Watkins	Laborer	2		
Aaron	Operator	2		
Darren McKintosh	Apprentice	2		
James Healy	TCS	2		
Tim Peltier	Operator	2		

EQUIPMENT

EQUIPMENT OR ATTACHMENTS	STRAIGHT	STANDBY	COMMENTS
	HOURS	HOURS	
#1029 Komatsu 238 EX.	2		
#3016 Komatsu 320 Loader	2		
#120 F-350 Foreman's P/U	2		
#112 E-150 TCS P/U	2		
#1023 Komatsu 138 EX.	2		

MATERIALS

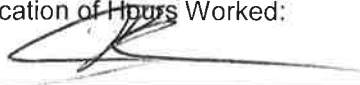

MATERIALS	QUANTITY	UNIT	COMMENTS
2"x4" Recycled Quarry Spalls	9.73	Ton	

Quantities as measured in the field

INVOICES

INVOICES	QUANTITY	UNIT	DOLLAR AMOUNT

Verification of Hours Worked:

x 
 Contractor's Representative Date
 x  04.19.21
 Owner's Representative Date

COMMENTS:

NO BID ITEM FOR UNSUITABLE SOILS
 FOUND UNSUITABLE BASE MATERIAL
 FOR SETTING PUMP STATION MIT.

Marshbank Construction Inc.
Foreman's Report of Force Account Worked

5110

Date	4/10/21	Job #	20118
Weather	Sun 71°	Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):
 Unsuitable materials found @ Structure #19. for base, placed 2x4
 before 1/4 rock. Also time waiting on 2x4 rock

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
2	Chris R	2	238 ex # 1022
2	Will L	2	Loader 320 # 3016
2	Will W	2	Foreman's truck # 120
2	Aaron	2	TLS truck
2	Darren	2	Cat 308 ex # 1027
2	James		
2	Tim		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor
10	2x4 recycled concrete		Silver streak
5	yards of wet soil		

Signature: 
 Eric Pritchard

Date Completed: 04.19.21

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 768-1000

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
BLACK RIVER (Plant # 22) - (206) 658-0912
510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038

Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING (206) 768-1000
FAX (206) 763-2730
SALES &
ORDER DESK (206) 768-1000

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

MAP LOCATE		LEAVE PLANT		ARRIVE JOB		LEAVE JOB		ARRIVE PLANT	
DATE 04/19/2021	CUSTOMER NO. 819800	ORDER NO. 696212	PROJECT			PLANT # 22			
CUSTOMER NAME SILVER STREAK INC				CUSTOMER PO. 21306	JOB NO. 021306	DELIVERY TICKET NO. 287893			
JOB ADDRESS AGG - 81ST PL & EAST MARGINAL WAY				COLLECT ON DELIVERY (C.O.D.) <input type="checkbox"/> CASH <input type="checkbox"/> CHECK # _____ <input type="checkbox"/> CHARGE CARD # _____ EXP. ____/____/____ <input type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD <input type="checkbox"/> DISCOVER					
SEATTLE									
SPECIAL INSTRUCTIONS									

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
9.73	TN	85015	2"X4" RCA CRSH CLN SPALL A	9.73	9.73		
9.73	TN	70010	WA STATE SICK LEAVE SURCH	9.73			
9.73	TN	70015	ENVIRONMENTAL SURCHARGE	9.73			
			<div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> FA </div>				
Gross		61040.00	Tare	41580.00	Net	19460.00	

DRIVER	TRUCK NO. TMP55215	ORDERED BY	REMIT PAYMENT TO 9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE	SUB-TOTAL
DISPATCHER	TAX CODE WA 1	TIME DUE 12:14		SALES TAX
RELEASE -- CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS KANGLEY ROCK & RECYCLING, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.				BALANCE FORWARD
CUSTOMER SIGNATURE	DATE			TOTAL AMOUNT

DAILY REPORT OF FORCE ACCOUNT WORKED

FA No.: **3**

Project Name: EMWO	Project No: 14015	Date: 4/29/2021
Bid Item: 04 - Resolution of Utility Conflicts		Pay Est: 2
Description of Work: Pothole gas line from STA 17+00 RT to 18+00 RT to locate existing gas line.		
Prime Contractor: Marshbank		Sub-Contractor: N/A

PRIME LABOR	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	William Watkins	GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)	2.5	\$ 61.83		\$ 84.03	\$ 154.57
	Chris Rammage	11S)	2.5	\$ 89.76		\$ 121.90	\$ 224.40
	Darren Mcintosh	LABORER 70% OF GENERAL LABORER (1001-2000 HOURS) (MCI TRADE 16B)	2.5	\$ 47.69		\$ 63.53	\$ 119.22
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
PRIME LABOR SUBTOTAL							\$ 498.19
PRIME LABOR TOTAL INCLUDING 31% MARKUP							\$ 652.63

PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS	WORKING	RATE	STANDBY	RATE	EXTENSION
	MCI-0080*	2.5	\$ 141.53		\$ 48.60	\$ 353.83
	MCI-0109	2.5	\$ 19.72		\$ 2.02	\$ 49.30
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
PRIME EQUIPMENT SUBTOTAL						\$ 403.13
MATERIALS (add tax to unit price if applicable)	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
					\$ -	
					\$ -	
					\$ -	
PRIME MATERIALS SUBTOTAL						\$ -
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP						\$ 487.79
PRIME SUBTOTAL						\$ 1,140.42

SUBCONTRACTOR LAB	NAME	OCCUPATION	ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
	-			\$ -		\$ -	\$ -
SUBCONTRACTOR LABOR SUBTOTAL							\$ -
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP							\$ -

SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS	WORKING	RATE	STANDBY	RATE	EXTENSION
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBCONTRACTOR EQUIPMENT SUBTOTAL						\$ -
MATERIALS (add tax to unit price if applicable)	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
					\$ -	
					\$ -	
SUBCONTRACTOR MATERIALS SUBTOTAL						\$ -
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP						\$ -

SUBSERVICE	SUBCONTRACTOR / SERVICE	INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION
						\$ -
						\$ -
SUBCONTRACTOR INVOICE TOTAL						\$ -
SUBCONTRACTOR SUBTOTAL						\$ -
PRIME CONTRACTOR MARKUP AT 12%						\$ -
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP						\$ -

Force Account Sheet By:	Approval of Force Account Worked:	
NAME HERE, KPG Office Engineer	NAME HERE, KPG Resident Engineer	
Date	Date	
		SHEET TOTAL: \$ 1,140.42

Labor & equipment paid

Marshbank Construction Inc.
Foreman's Report of Force Account Worked

5114

Date	4/29/21	Job #	20118
Weather		Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):
Pot hole gas main @ Bioswale that was mis-located originally.

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
2.5	Chris R	2.5	Foreman's truck
2.5	Will L	2.5	Cut 308 -x
2.5	Darren		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor
			VPC 4 hour min plus dump fees

Signature:  KPG

Date Completed: _____

DAILY REPORT OF FORCE ACCOUNT WORKED

FA No.: **4**

Project Name: EMWO	Project No: 14015	Date: 4/13/2021
Bid Item: 04 - Resolution of Utility Conflicts		Pay Est: 2
Description of Work: Delay in laying 4" pipe due to unknwn DI pipe crossing at 9-80. Resolved on RFI.		
Prime Contractor: Marshbank		Sub-Contractor: N/A

	NAME		OCCUPATION		ST HOURS	WWR	OT HOURS	WWR	EXTENSION
	PRIME LABOR	Chris Rammage		SUPERINTENDENT / OPERATOR - ZONE 1/GROUP 1 (MCI TRADE 11S)		0.5	\$ 89.76		\$ 121.90
William Watkins		GENERAL LABORER - ZONE 1/GROUP 3 (MCI TRADE 1)		0.5	\$ 61.83		\$ 84.03	\$ 30.91	
William Lindstrom		PIPELAYER & CAULKER - ZONE 1/GROUP 4 (MCI TRADE 4)		0.5	\$ 63.01		\$ 85.75	\$ 31.51	
Darren Mcintosh		LABORER 70% OF GENERAL LABORER (1001-2000 HOURS) (MCI TRADE 16B)		0.5	\$ 47.69		\$ 63.53	\$ 23.84	
					\$ -		\$ -	\$ -	
					\$ -		\$ -	\$ -	
					\$ -		\$ -	\$ -	
PRIME LABOR SUBTOTAL									\$ 131.14
PRIME LABOR TOTAL INCLUDING 31% MARKUP									\$ 171.79
PRIME EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS				WORKING	RATE	STANDBY	RATE	EXTENSION
	MCI-0120				0.5	\$ 15.36		\$ 3.16	\$ 7.68
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
PRIME EQUIPMENT SUBTOTAL									\$ 7.68
MATERIALS (add tax to unit price if applicable)				INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
								\$ -	
								\$ -	
								\$ -	
PRIME MATERIALS SUBTOTAL									\$ -
PRIME MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP									\$ 9.29
PRIME SUBTOTAL									\$ 181.08
SUBCONTRACTOR LAB	NAME		OCCUPATION		ST HOURS	WWR	OT HOURS	WWR	EXTENSION
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
SUBCONTRACTOR LABOR SUBTOTAL									\$ -
SUBCONTRACTOR LABOR TOTAL INCLUDING 29% MARKUP									\$ -
SUB EQUIPMENT / MATERIALS	EQUIPMENT OR ATTACHMENTS				WORKING	RATE	STANDBY	RATE	EXTENSION
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
						\$ -		\$ -	\$ -
SUBCONTRACTOR EQUIPMENT SUBTOTAL									\$ -
MATERIALS (add tax to unit price if applicable)				INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION	
								\$ -	
								\$ -	
SUBCONTRACTOR MATERIALS SUBTOTAL									\$ -
SUBCONTRACTOR MATERIALS & EQUIPMENT TOTAL INCLUDING 21% MARKUP									\$ -
SUBSERVICE	SUBCONTRACTOR / SERVICE				INVOICE	UNIT	QUANTITY	PRICE w/ Tax if appl.	EXTENSION
									\$ -
									\$ -
SUBCONTRACTOR INVOICE TOTAL									\$ -
SUBCONTRACTOR SUBTOTAL									\$ -
PRIME CONTACTOR MARKUP AT 12%									\$ -
SUBCONTRACTOR TOTAL INCLUDING 12% PRIME MARKUP									\$ -

Force Account Sheet By:	Approval of Force Account Worked:	
		SHEET TOTAL: \$ 181.08
NAME HERE, KPG Office Engineer	NAME HERE, KPG Resident Engineer	Date

Marshbank Construction Inc.
Foreman's Report of Force Account Worked

5109

Date	4/13/2021	Job #	20118
Weather	Sunny	Auth. By	

Describe Work Performed (Attach Additional Sheets if Necessary):

Delay in laying 4" pipe due to unknown
 DI pipe crossing at 9-80. Resolved on RFI

Labor		Equipment	
Hours	Name	Hours	Machine/Machine Number
.5	Chris Ramage	.5	Truck 120
.5	Will Watkins		
.5	Will Lindstrom		
.5	Barren McIntosh		

Below This Line Attach Invoices or Truck Slips/Tickets If Available

Materials (Includes Dump Fees)		Subcontractors (Includes Rental Trucks)	
Quantity	Description	Invoice No.	Subcontractor

Signature: Eric Pritchard
 Eric Pritchard

Date Completed: 4.13.21

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

March 30, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 8.1 Additional Info Request 3-30-21

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notice of differing site conditions and our interpretation of direction given by KPG to postpone saw-cutting and tracking efforts during redesign for consequential delays.

1. The date and nature of the protested order, direction, instruction, interpretation or determination

Marshbank Construction Inc. (Marshbank) is providing this supplemental information related to serial letter No.005 (Differing Site Conditions). The purpose of this information is to provide all known direct costs associated with this delay arising from March 9, 2021 through March 17, 2021. These costs have been compiled with the expectation for prompt payment related to the issue. The two issues are the bio retention sidewalk area and the storm activity both in redesign and on hold until further notice at the current expense of Marshbank.

2.A full discussion of the circumstances which caused the protest, including names of persons involved, time, duration and nature of Work involved, and a review of the Plans and Contract Provisions referenced to support the protest.

Persons Involved:

- Marshbank Construction
 - Rob Gammell (Project Manager)
 - Ernest Hinds (Superintendent)
 - Patrick Gleason (Project Engineer)
 - Chris Rammage. (Foreman)

- City of Tukwila and its representatives
 - Matt North (KPG-Resident Engineer)
 - Alexa Henry (Construction Services)
 - Ed Wagner (Lead Inspector)
 - Ray Larson (City of Tukwila-Project Manager)

- KPG Design
 - William R. Edralin (Design Engineer/Final Stamp)

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

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Relevant Timeline of Events:

On March 3, 2021, Marshbank visited the site for initial locate boundary markings. Once onsite it appeared that a potential scaling issue was present for the sidewalk area regarding the bioretention zone after a cursory site walk. Marshbank requested a meeting for an onsite visit with KPG/City of Tukwila to discuss existing conditions in contrast to the plans. This meeting was held on March 4, 2021 and present for this meeting was Rob Gammell (MCI PM), Ernie Hinds (MCI Superintendent), Ed Wagner (KPG Lead Inspector), Matt North (KPG, RE), Ryan Larson (Tukwila PM). Marshbank brought to attention questions about the design vs actual field conditions before mobilization occurred. Marshbank agreed to follow up immediately with an RFI illustrating the issues combined with site photos.

The same day as March 4, 2021, Marshbank sent an immediate RFI (#011) identifying both differing site conditions along with photos for easy interpretation of the issue. Specifically showing how the as-bid detail showed an existing 6" concrete area for doweling into a planned vertical wall appeared to be a thin questionable condition asphalt present. This was in addition to a horizontal issue for existing sidewalk area in regards to tree pits not able to retain a permanent 6' walkway.

No immediate answer or timeline for redesigning the section of work "bioretention sidewalk area" was given. Marshbank was not notified to delay mobilization in any manner at this time and mobilizes for work on March 8, 2021. As Marshbank is in the process of mobilizing equipment and laying out sawcut behind the survey pins per plan. It appeared onsite that another vault lid was in the center turn lane absent of definitive markings where future storm is to be installed. This did not have sufficient informative locate marks to Marshbank's acceptance and another locate specific call via 811 is generated by Marshbank to clarify the identifiers. Marshbank brought to KPG's attention the locate paint indicating a communication line roughly 3' wide in the future storm alignment which is not shown on the plan documents. In expedited fashion and on the same day Marshbank immediately sent an RFI (#014) requesting direction and alerting KPG of the "time sensitive issue". KPG responds at 4:44 pm with a direction of a work stoppage order and consider this a response to RFI #014. This resulted in added potholes directed by KPG for further design investigation. Both the issue of the sidewalk bioretention area needing to be redesigned and the gravity/force main activity resulted in work stopping design issues which kept Marshbank from being in any manner productive. This displaced the crew, and focused on potholing both overstaffed and inefficient while sacrificing concurrent work as bid.

The first weekly meeting is attended virtually by the project team and Marshbank transmitted serial letter #05 on the same day March 9, 2021 which formally notified KPG and the City of Tukwila of the communication line differing site condition present. The intent of this notification in conjunction with the discussion in the weekly meeting was to alert KPG/Tukwila of the various design issues brought forward and how Marshbank intends to track these issue(s) via force account until production work as bid can be realized. Marshbank made sure to state in serial letter No. 5 the issue of bid item potholing due to the changed conditions for critical stoppage. As detailed in said serial letter for the crew being dedicated for potholing materially changed the way we priced and the quantity of each pothole.

3/9/2021 – Complete loss of production. After the work stopping direction, crew exclusively worked on all potholes including added quantities never quantified in the per each proposal price. Marshbank bid the project to concurrently sawcut with slurry collection laborers (MCI crew members) while hardscape was being stripped and hauled off to waste site. This would allow clear and unobstructed access for (1) vector truck to pothole the proposal quantity (6). Marshbank thus had to pivot from this means and methods to a focused (5) man crew exclusively on ~13 potholes and a minimum sawcut charge.

The following remaining timeline dates have been itemized for ease of reading.

3/10/2021 – Complete loss of production. KPG responds to RFI (#014) stating that KPG understands they have added potholes and will agree to track for fair and equitable agreement. By 2:56 pm Marshbank provides all data from potholing as directed via email.

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CONSTRUCTION

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3/11/2021 – Complete loss of production and displaced crew.

3/11/2021 (10:08am) -Marshbank provides surveyor rates for T&M for KPG's records.

3/11/2021 (10:36am) – KPG send redesign plan requesting rapid scheduling of survey and saw-cutting.

3/12/2021 – Complete loss of production and displaced crew.

3/15/2021 – Small crew supporting survey with traffic control and assisting layout for saw-cutting the next day. Complete loss of any critical path work.

3/16/2021 – Complete loss of production. Crew beginning to assist saw-cutting out of sequence, no work completed in the manner bid.

3/17/2021 – Complete loss of production and working on track force account as accepted forward price still outstanding. Crew began hardscape stripping and excavation for structure #25. Encountered a 4" potentially known (KPG Plan Set show FO) in the area of excavation in direct conflict with the structure/shoring box. Seemingly from the redesign shifting from a clear separation to overlap of said conduit.

3/17/2021 – Related to RFI and initial pricing sent for the redesign Marshbank encounters sand encroaching into preliminary excavation. No inspector onsite at this time. Email notification with time and pictures sent to KPG (8:46 am)

3/17/2021 – (9:37 am) Marshbank immediately notifies KPG onsite as well as RFI (#021)

3/17/2021 - (6:21 pm) KPG send email restating onsite discussions for tracking the entire day as lost production and reimbursement via force account. "The storm work on East Marginal Way is on hold until further notice."

3/18/2021 - No production. Equipment on standby.

3/19/2021 - No production. Equipment on standby.

3/19/2021 – Marshbank's baseline schedule approved "NET"

3/22/2021 – Stand by until further notice.

3. The estimated dollar cost, if any, of the protested Work and a detailed breakdown showing how that estimate was determined.

In an effort to expedite this cost issue Marshbank has detailed the immediate impacts to only Project Manager, Project Engineer, and halftime Superintendent. See attached daily breakdown showing **\$2,194.25** (1,675 with markup). These rates should match the presented office rates priced for comparison purposes to the first redesign Priced Change Order. If this cannot be agreed upon Marshbank reserves its rights to realize the full impacts i.e., Superintendent salary, office manager, office rental, ownership costs, clerical/timekeeping, vehicles, liability insurance, supplies, utilities etc. and continue the protest.

Marshbank requests **\$86,640.17** to cover direct costs beginning March 9, 2021 through March 17, 2021.

Additionally, Marshbank is providing a charged rate effective March 18, 2021 of a daily rate of **\$1,112.35** for equipment per day and **\$2,194.25** for office overhead per day for unrealized non-working equipment staged on this project and overhead costs being incurred by Marshbank Construction. The daily cost including both equipment standby and management is **\$3,306.60**. These costs will be incurred daily until work is able to be performed per production and schedule. Marshbank will be billing

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MARSHBANK

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each of the calendar days affected this daily rate. As of our goal of resuming changed work April 5, 2021, yields (12) workable calendar days have elapsed totaling **\$39,679.20**. This cost is ongoing and is not captured in the above sum until resolution and agreement for work to begin. As this is design delay is ongoing and the schedule impacts cannot be fully realized until production work begins including any added long lead supplier items such as structures the resulting schedule impacts are not known. BioClean charges **\$2,982.00** storage fees per month beginning April 1st. These costs will be bore by KPG/City of Tukwila along with the two cancellation charges outlined in the daily sheets.

As of April 5, 2021 City responsibility of costs:

3/09/2021 to 3/17/2021 - Impacts	\$86,640.17
3/18/2021 to 4/02/2021 - Daily Standby	\$39,769.20
BioClean Storage – April 1 st Charge	\$2,194.25.

Total Direct Impacts Assumed thru April 2, 2021 **\$128,513.62**. Please note potholing extra work performed on 3/27/21 is not include in this summary as it was separate design informational work with still a loss production day.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue. In that these costs are occurring daily Marshbank requests a response by end of day tomorrow. If you have any questions or wish to discuss further please give me a call at your earliest convenience.

Sincerely,



Rob Gammell
Marshbank Construction

An Equal Opportunity Employer

Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

March 22, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Supplemental Information
Serial Letter No. 8

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notice of differing site conditions and our interpretation of direction given by KPG to postpone saw-cutting and tracking efforts during redesign for consequential delays.

1. The date and nature of the protested order, direction, instruction, interpretation or determination

Marshbank Construction Inc. (Marshbank) is providing this supplemental information related to serial letter No.005 (Differing Site Conditions). The purpose of this information is to provide all known direct costs associated with this delay arising from March 9, 2021 through March 17, 2021. These costs have been compiled with the expectation for prompt payment related to the issue. The two issues are the bio retention sidewalk area and the storm activity both in redesign and on hold until further notice at the current expense of Marshbank.

2.A full discussion of the circumstances which caused the protest, including names of persons involved, time, duration and nature of Work involved, and a review of the Plans and Contract Provisions referenced to support the protest.

Persons Involved:

- Marshbank Construction
 - Rob Gammell (Project Manager)
 - Ernest Hinds (Superintendent)
 - Patrick Gleason (Project Engineer)
 - Chris Rammage. (Foreman)

- City of Tukwila and its representatives
 - Matt North (KPG-Resident Engineer)
 - Alexa Henry (Construction Services)
 - Ed Wagner (Lead Inspector)
 - Ray Larson (City of Tukwila-Project Manager)

- KPG Design
 - William R. Edralin (Design Engineer/Final Stamp)

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Relevant Timeline of Events:

On March 3, 2021, Marshbank visited the site for initial locate boundary markings. Once onsite it appeared that a potential scaling issue was present for the sidewalk area regarding the bioretention zone after a cursory site walk. Marshbank requested a meeting for an onsite visit with KPG/City of Tukwila to discuss existing conditions in contrast to the plans. This meeting was held on March 4, 2021 and present for this meeting was Rob Gammell (MCI PM), Ernie Hinds (MCI Superintendent), Ed Wagner (KPG Lead Inspector), Matt North (KPG, RE), Ryan Larson (Tukwila PM). Marshbank brought to attention questions about the design vs actual field conditions before mobilization occurred. Marshbank agreed to follow up immediately with an RFI illustrating the issues combined with site photos.

The same day as March 4, 2021, Marshbank sent an immediate RFI (#011) identifying both differing site conditions along with photos for easy interpretation of the issue. Specifically showing how the as-bid detail showed an existing 6" concrete area for doweling into a planned vertical wall appeared to be a thin questionable condition asphalt present. This was in addition to a horizontal issue for existing sidewalk area in regards to tree pits not able to retain a permanent 6' walkway.

No immediate answer or timeline for redesigning the section of work "bioretention sidewalk area" was given. Marshbank was not notified to delay mobilization in any manner at this time and mobilizes for work on March 8, 2021. As Marshbank is in the process of mobilizing equipment and laying out sawcut behind the survey pins per plan. It appeared onsite that another vault lid was in the center turn lane absent of definitive markings where future storm is to be installed. This did not have sufficient informative locate marks to Marshbank's acceptance and another locate specific call via 811 is generated by Marshbank to clarify the identifiers. Marshbank brought to KPG's attention the locate paint indicating a communication line roughly 3' wide in the future storm alignment which is not shown on the plan documents. In expedited fashion and on the same day Marshbank immediately sent an RFI (#014) requesting direction and alerting KPG of the "time sensitive issue". KPG responds at 4:44 pm with a direction of a work stoppage order and consider this a response to RFI #014. This resulted in added potholes directed by KPG for further design investigation. Both the issue of the sidewalk bioretention area needing to be redesigned and the gravity/force main activity resulted in work stopping design issues which kept Marshbank from being in any manner productive. This displaced the crew, and focused on potholing both overstaffed and inefficient while sacrificing concurrent work as bid.

The first weekly meeting is attended virtually by the project team and Marshbank transmitted serial letter #05 on the same day March 9, 2021 which formally notified KPG and the City of Tukwila of the communication line differing site condition present. The intent of this notification in conjunction with the discussion in the weekly meeting was to alert KPG/Tukwila of the various design issues brought forward and how Marshbank intends to track these issue(s) via force account until production work as bid can be realized. Marshbank made sure to state in serial letter No. 5 the issue of bid item potholing due to the changed conditions for critical stoppage. As detailed in said serial letter for the crew being dedicated for potholing materially changed the way we priced and the quantity of each pothole.

3/9/2021 – Complete loss of production. After the work stopping direction, crew exclusively worked on all potholes including added quantities never quantified in the per each proposal price. Marshbank bid the project to concurrently sawcut with slurry collection laborers (MCI crew members) while hardscape was being stripped and hauled off to waste site. This would allow clear and unobstructed access for (1) vector truck to pothole the proposal quantity (6). Marshbank thus had to pivot from this means and methods to a focused (5) man crew exclusively on ~13 potholes and a minimum sawcut charge.

The following remaining timeline dates have been itemized for ease of reading.

3/10/2021 – Complete loss of production. KPG responds to RFI (#014) stating that KPG understands they have added potholes and will agree to track for fair and equitable agreement. By 2:56 pm Marshbank provides all data from potholing as directed via email.

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3/11/2021 – Complete loss of production and displaced crew.

3/11/2021 (10:08am) -Marshbank provides surveyor rates for T&M for KPG's records.

3/11/2021 (10:36am) – KPG send redesign plan requesting rapid scheduling of survey and saw-cutting.

3/12/2021 – Complete loss of production and displaced crew.

3/15/2021 – Small crew supporting survey with traffic control and assisting layout for saw-cutting the next day. Complete loss of any critical path work.

3/16/2021 – Complete loss of production. Crew beginning to assist saw-cutting out of sequence, no work completed in the manner bid.

3/17/2021 – Complete loss of production and working on track force account as accepted forward price still outstanding. Crew began hardscape stripping and excavation for structure #25. Encountered a 4" potentially known (KPG Plan Set show FO) in the area of excavation in direct conflict with the structure/shoring box. Seemingly from the redesign shifting from a clear separation to overlap of said conduit.

3/17/2021 – Related to RFI and initial pricing sent for the redesign Marshbank encounters sand encroaching into preliminary excavation. No inspector onsite at this time. Email notification with time and pictures sent to KPG (8:46 am)

3/17/2021 – (9:37 am) Marshbank immediately notifies KPG onsite as well as RFI (#021)

3/17/2021 - (6:21 pm) KPG send email restating onsite discussions for tracking the entire day as lost production and reimbursement via force account. "The storm work on East Marginal Way is on hold until further notice."

3/18/2021 - No production. Equipment on standby.

3/19/2021 - No production. Equipment on standby.

3/19/2021 – Marshbank's baseline schedule approved "NET"

3/22/2021 – Stand by until further notice.

3. The estimated dollar cost, if any, of the protested Work and a detailed breakdown showing how that estimate was determined.

In an effort to expedite this cost issue Marshbank has detailed the immediate impacts to only Project Manager, Project Engineer, and halftime Superintendent. See attached daily breakdown showing **\$2,194.25** (1,675 with markup). These rates should match the presented office rates priced for comparison purposes to the first redesign Priced Change Order. If this cannot be agreed upon Marshbank reserves its rights to realize the full impacts i.e., Superintendent salary, office manager, office rental, ownership costs, clerical/timekeeping, vehicles, liability insurance, supplies, utilities etc. and continue the protest.

Marshbank requests **\$86,640.17** to cover direct costs beginning March 9, 2021 through March 17, 2021.

Additionally, Marshbank is providing a charged rate effective March 18, 2021 of a daily rate of **\$1,112.35** for equipment per day and **\$2,194.25** for office overhead per day for unrealized non-working equipment staged on this project and overhead costs being incurred by Marshbank Construction. The daily cost including both equipment standby and management is **\$3,306.60**. These costs will be incurred daily until work is able to be performed per production and schedule. Marshbank will be billing

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each of the calendar days affected this daily rate. As of this letter March 22, 2021, (3) workable calendar days have elapsed totaling **\$3,337.05**. This cost is ongoing and is not captured in the above sum until resolution and agreement for work to begin. As this is design delay is ongoing and the schedule impacts cannot be fully realized until production work begins including any added long lead supplier items such as structures the resulting schedule impacts are not known. BioClean charges **\$2,982.00** storage fees per month beginning April 1st. These costs will be bore by KPG/City of Tukwila along with the two cancellation charges outlined in the daily sheets.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue. In that these costs are occurring daily Marshbank requests a response by end of day tomorrow. If you have any questions or wish to discuss further please give me a call at your earliest convenience.

Sincerely,



Rob Gammell
Marshbank Construction

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Ph. (425) 377-9708 / Fax (425) 377-0709

PO Box 97, Lake Stevens WA 98258

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March 9, 2021

Matt North, R.E
KPG
2502 Jefferson Ave
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project
Agreement No. WQC-2016-Tukwil-00132
Differing Site Conditions
Serial Letter No. 5

Mr. North,

The purpose of this letter is for Marshbank Construction, Inc. (Marshbank Construction) to provide the City of Tukwila with formal notice pursuant to specification 1-04.7 – *Differing Site Conditions*. The changed condition is preventing Marshbank Construction from proceeding with scheduled Contract Work.

On March 8, 2021 Marshbank alerted onsite representatives from KPG and sent an immediate RFI, (RFI 014) regarding the discovery via locate paint, of an assumed communication duct bank running north and south potentially resulting in conflicts for the first order of work activities.

Marshbank Construction's schedule shows potholing and excavation in the first week. The three-week look ahead provided Friday (March 5, 2021) before any known issues illustrated a more detailed breakdown of work including saw-cutting beginning March 9, 2021 and related prep work for the storm activity. Based on the email direction received from KPG yesterday at 4:44 pm, Marshbank was instructed to postpone saw-cutting the trench in its entirety in direct contrast to how Marshbank bid the project. Marshbank had to adjust the saw-cutting activity entirely to focus on potholing per direction for furnishing information to KPG designers. (March 8, 2021 email 4:44 pm) Marshbank did not price each pothole (6) per proposal quantity for specialty sawcut minimum footages, opposed to economy of scale in slurry and dump daily charges, and should have been able to remove hardscapes directly behind the saw-cutting activity.

Marshbank has missed the opportunity to utilize the crew with concurrent work including to tandem walk behind saws and a Marshbank employee behind each for slurry collection, as the hardscape employees remove the top layers to subgrade ahead, during, and beyond the vector truck potholing. Marshbank under direction and approval by KPG has identified (13-14) potholes at the time of writing this letter or 233% of the bid proposal that are desired for information at this time. Marshbank did not realize this in their bid price. This change affects items including but not limited to vector time, distance, dump quantity, crew size, inefficiency, equipment standby, and all associated lump sum or fixed costs related to a working day.

Marshbank Construction continues to await direction from the City of Tukwila as it relates to this issue. Marshbank understands the City of Tukwila and its representatives are working to provide direction. Once direction is received, Marshbank Construction will provide pricing for this change in a timely manner related to any design changes. As this work is changing daily, Marshbank Construction will track its direct costs associated with this change, on daily force account sheets and will submit to the City of Tukwila for reimbursement. Please let us know immediately if there are any objections to this.

At this time, Marshbank Construction, Inc. must hereby reserve its right to claim any and all direct and indirect, consequential, delay and or impact costs which result directly and or indirectly from this issue.

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Should you have any questions, I can be reached by phone at (425) 209-8225

Sincerely,

 Digitally signed by
Robert Gammell
Date: 2021.03.09
11:07:19-08'00'

Marshbank Construction Inc.

Rob Gammell

From: Matt North <matt@kpg.com>
Sent: Monday, March 8, 2021 4:44 PM
To: Rob Gammell; Alexa Henry; Ed Wagner; Ernie Hinds; Jacob Williams; Jeff Heglund; Patrick; Ryan Larson; Chris Rammage; Jason Tesdal; Daniel Clark; Nelson Davis; Ray Edralin
Cc: Kenton Wilde
Subject: RE: EMWO: RFI 014
Attachments: RFI 014 - Comm Line Locate Present.pdf; IMG_5114.jpg; IMG_5117.jpg; IMG_5118.jpg
Importance: High

Hello Rob,

Please postpone your saw-cutting as planned for tomorrow, keep the camera install on track at the intersection of S 81st Pl with Service Electric as planned.

The unknown Zayo lines in the center lane raise caution as indicated in the RFI as potential conflicts to the modular wetland structure #100.

Pothole the Zayo lines to be tracked as per each BI#42 to determine width and depth, report data to KPG so that KPG Design has information. Additional potholing for this unknown Zayo line is acceptable and needed for determining additional actions for the issued RFI #14. Once pothole data is received, KPG can advise and respond to the RFI.

I have change the subject line of this incoming email for tracking purposes to reference RFI #14.

Contact me with any questions or concerns on this direction.

Thanks!

Matt North
Resident Engineer

KPG | SEATTLE • BELLEVUE • TACOMA • WENATCHEE

Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

www.kpg.com



From: Rob Gammell <rob@marshbankconst.com>
Sent: Monday, March 8, 2021 3:07 PM
To: Matt North <matt@kpg.com>; Alexa Henry <alexa@kpg.com>; Ed Wagner <edw@kpg.com>; Ernie Hinds <ernieh@marshbankconst.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Patrick <Patrick@marshbankconst.com>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Chris Rammage <Chris.Rammage@marshbankconst.com>

Rob Gammell

From: Matt North <matt@kpg.com>
Sent: Wednesday, March 17, 2021 6:21 PM
To: Patrick; Rob Gammell
Cc: Ernie Hinds; Ed Wagner; Alexa Henry; Ray Edralin; Jeff Heglund; Ryan Larson
Subject: RE: EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25 - initial RFI response

Follow Up Flag: Follow up
Flag Status: Flagged

Patrick & Rob,

As you are aware from onsite discussions, and following emergency locate of the 4 Inch Steel Conduit, is in Conflict with CB 25 and structure #100. KPG will be reviewing the design, and Marshbank will need to go on standby for the storm work revisions until further notice. Today as discussed will all be tracked as force account.

Design is feverishly working on a solution to the newly found line. The pothole of the structure #100 for tomorrow has been canceled. The 4" line does continue on to parallel the Structure #100 to the east, and the Zayo line on the west side only looks to have 9ft of separation. The shoring box to fix the structure #100 is needed as 12 to 13ft by 20 feet long.

With the newly found unmarked & unknown line, KPG does not see the structure #100 fitting in the window of space per the current design.

The storm work on East Marginal Way is on hold until further notice.

Contact me with any questions or concerns to this initial RFI #21 response.

Thanks!

Matt North
Resident Engineer

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Interdisciplinary Design

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

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From: Patrick <Patrick@marshbankconst.com>
Sent: Wednesday, March 17, 2021 9:40 AM
To: Matt North <matt@kpg.com>; Ed Wagner <edw@kpg.com>; Alexa Henry <alexa@kpg.com>; Ray Edralin <ray@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>

Cc: Rob Gammell <rob@marshbankconst.com>; Ernie Hinds <ernieh@marshbankconst.com>

Subject: EMWO RFI 021 - 4 Inch Steel Conduit in Conflict with CB 25

See attached RFI 021, this is urgent as we have core drillers scheduled for the connection into CB 34 at 11:00 AM. Please provide direction as soon as possible.

Thank you,

Patrick Gleason

Project Engineer

Marshbank Construction, Inc.

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 754-3085 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

DAYS DIRECTLY IMPACTED

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 12,310.06
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 10,972.37
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 5,565.51
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 7,700.23
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 6,185.05
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 12,481.69

TOTAL \$ 60,780.42

ESC LUMP SUM ITEM

NO PRODUCTION WORK REALIZED	3/9/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/10/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/11/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/12/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/15/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/16/2021	\$ 250.00
NO PRODUCTION WORK REALIZED	3/17/2021	\$ 250.00

TOTAL \$ 1,750.00

PROJECT TTC

NO PRODUCTION WORK REALIZED	3/9/2021	1250
NO PRODUCTION WORK REALIZED	3/10/2021	1250
NO PRODUCTION WORK REALIZED	3/11/2021	1250
NO PRODUCTION WORK REALIZED	3/12/2021	1250
NO PRODUCTION WORK REALIZED	3/15/2021	1250
NO PRODUCTION WORK REALIZED	3/16/2021	1250
NO PRODUCTION WORK REALIZED	3/17/2021	1250

TOTAL \$ 8,750.00

DAILY OVERHEAD COST W/O MU	3/9/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/10/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/11/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/12/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/15/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/16/2021	\$ 2,194.25
DAILY OVERHEAD COST W/O MU	3/17/2021	\$ 2,194.25

TOTAL \$ 15,359.75

Grand Total 3/9 thru 3/17	\$ 86,640.17
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Project Name: EMWVO STOPPAGE	Project No: 20119
Item No.:	Date: 3/9/2001

Description of Work:
 Focused crew on inefficient and adjusted potholing

LOCATION: STA LT RT

Prime Contractor: MCI Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
JUSTIN TRUMAN	DUMP	1.5	\$ 83.50		\$ 112.37	\$ 125.26
CAMERON HILL	VACT	6.5	\$ 84.94		\$ 114.50	\$ 552.09
SUBTOTAL - LABOR:						\$ 3,549.80
LABOR OVERHEAD & PROFIT @ 29.00%:						\$ 1,029.44
2% 1-09.6 (1) 2020 ADDITION:						\$ 71.00
LABOR TOTAL						\$ 4,650.24

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	4		\$ 115.22	\$ 26.26	\$ 460.88
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0061	6X4 18YD 70KGVW	1.5		\$ 73.36	\$ 12.76	\$ 110.04
MCI-0061.5	14.5-13	1.5		\$ 15.63	\$ 4.42	\$ 23.45
MCI-0080*	320 Vactor Truck	6.5		\$ 141.53	\$ 58.53	\$ 919.95
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 3,340.64
EQUIPMENT OVERHEAD & PROFIT @ 21%:						\$ 701.53
EQUIPMENT TOTAL						\$ 4,042.17

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Vactor Dump VPC	1	EA	110.00	\$ 110.00
RCSTC for Pothole Backfill	29.58	TON	8.50	\$ 251.43
Sawcut for potholes	1	LS	2,628.36	\$ 2,628.36
SUBTOTAL - MATERIALS:				\$ 2,989.79
MATERIALS MU @ 21%:				\$ 627.86
MATERIALS/SERVICE TOTAL				\$ 3,617.65
TOTAL:				\$ 12,310.06
TAX PERCENTAGE 0.00%:				\$ -
MTRL TAX ONLY 0.00%:				\$ -
SHEET TOTAL:				\$ 12,310.06

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

MARSHBANK CONSTRUCTION <small>Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507</small>		SHEET NO: 20118-01				
Project Name: EMWO STOPPAGE		Project No: 20119				
Item No.:		Date: 3/9/2001				
Description of Work: Focused crew on inefficient and adjusted potholing						
LOCATION: STA <input type="checkbox"/> LT <input type="checkbox"/> RT						
Prime Contractor: MCI		Sub-Contractor:				
LABOR						
NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
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TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
CAMERON HILL	VACT	8	\$ 84.94	1.5	\$ 114.50	\$ 851.25
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
SUBTOTAL - LABOR: \$ 4,413.04						
LABOR OVERHEAD & PROFIT @ 29.00% \$ 1,279.78						
2% 1-09.6 (1) 2020 ADDITION 2.00% \$ 88.26						
LABOR TOTAL \$ 5,781.08						
EQUIPMENT						
EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
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MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0080*	320 Vactor Truck	8		\$ 141.53	\$ 58.53	\$ 1,132.24
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT \$ 3,880.32						
EQUIPMENT OVERHEAD & PROFIT @ 21% \$ 814.87						
EQUIPMENT TOTAL \$ 4,695.19						
MATERIALS / SERVICE						
MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT		
Vactor Dump VPC	1	EA	110.00	\$ 110.00		
Cancellation Fee Mid Structure	1	LS	300.00	\$ 300.00		
		LS		\$ -		
		LS		\$ -		
		LS		\$ -		
		LS		\$ -		
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.				SUBTOTAL - MATERIALS \$ 410.00		
				MATERIALS MU @ 21% \$ 86.10		
				MATERIALS/SERVICE TOTAL \$ 496.10		
				TOTAL: \$ 10,972.37		
				TAX PERCENTAGE 0.00%	\$ -	
				MTRL TAX ONLY 0.00%	\$ -	
				SHEET TOTAL: \$ 10,972.37		

MARSHBANK

CONSTRUCTION
 Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 71.24
LABOR TOTAL						\$ 4,665.94

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0		8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5		8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi	0		8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi	0		8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 743.44	
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 156.12	
EQUIPMENT TOTAL					\$ 899.56	

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	MATERIALS/SERVICE TOTAL	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
MTRL TAX ONLY 0.00%	\$ -	
SHEET TOTAL:		\$ 5,565.51

MARSHBANK

CONSTRUCTION
Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20119**
 Item No.: _____ Date: **3/9/2001**

Description of Work: _____
 Focused crew on inefficient and adjusted potholing

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
			\$ -		\$ -	\$ -
SUBTOTAL - LABOR:						\$ 3,561.79
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 1,032.92
2% 1-09.6 (1) 2020 ADDITION						\$ 71.24
LABOR TOTAL						\$ 4,665.94

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT	
MCI-0120	4X4 1 195 CREW DSL		8	\$ 15.36	\$ 3.01	\$ 24.08
MCI-3016	WA320-7		8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2		8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0		8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5		8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Shi	0		8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Shi	0		8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12"	STEEL PLATE		8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130		8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0061	6X4 18YD 70KGVW			\$ 73.36	\$ 12.76	\$ -
MCI-0061.5	14.5-13			\$ 15.63	\$ 4.42	\$ -
MCI-0080*	320 Vactor Truck			\$ 141.53	\$ 58.53	\$ -
MCI-0522	8X16		8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 743.44	
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 156.12	
EQUIPMENT TOTAL					\$ 899.56	

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -
		LS		\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.	SUBTOTAL - MATERIALS	\$ -
	MATERIALS MU @ 21%	\$ -
	MATERIALS/SERVICE TOTAL	\$ -
	TOTAL:	\$ 5,565.51
	TAX PERCENTAGE 0.00%	\$ -
MTRL TAX ONLY 0.00%	\$ -	
SHEET TOTAL:		\$ 5,565.51

MARSHBANK

CONSTRUCTION

Cont. Lic. MARSHCI-05105 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: EMWO STOPPAGE

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA LT RT

Prime Contractor: MCI

Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
SUBTOTAL - LABOR:						\$ 1,839.28
LABOR OVERHEAD & PROFIT @ 29.00%						\$ 533.39
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ 36.79
LABOR TOTAL						\$ 2,409.46

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT:						\$ 2,748.08
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 577.10
EQUIPMENT TOTAL						\$ 3,325.18

MATERIALS / SERVICE

Subcontractors	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Northline Survey CO#1	1	LS	1,755.00	\$ 1,755.00
SUBTOTAL - MATERIALS				\$ 1,755.00
MATERIALS MU @ 12%				\$ 210.60
MATERIALS/SERVICE TOTAL				\$ 1,965.60
TOTAL:				\$ 7,700.23
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
SHEET TOTAL:				\$ 7,700.23

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

Project Name: **EMWO STOPPAGE**

Project No: 20119

Item No.:

Date: 3/9/2001

Description of Work:

Focused crew on inefficient and adjusted potholing

LOCATION:

STA LT RT

Prime Contractor: MCI

Sub-Contractor:

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83

SUBTOTAL - LABOR: \$ 2,183.11

LABOR OVERHEAD & PROFIT @ 29.00% \$ 633.10

2% 1-09.6 (1) 2020 ADDITION 2.00% \$ 43.66

LABOR TOTAL \$ 2,859.87

EQUIPMENT

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88

SUBTOTAL - EQUIPMENT \$ 2,748.08

EQUIPMENT OVERHEAD & PROFIT @ 21% \$ 577.10

EQUIPMENT TOTAL \$ 3,325.18

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	DOLLAR AMOUNT
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -
		LS	\$ -

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

SUBTOTAL - MATERIALS \$ -

MATERIALS MU @ 21% \$ -

MATERIALS/SERVICE TOTAL \$ -

TOTAL: \$ 6,185.05

TAX PERCENTAGE 0.00% \$ -

MTRL TAX ONLY 0.00% \$ -

SHEET TOTAL: \$ 6,185.05

MARSHBANK CONSTRUCTION <small>Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507</small>		SHEET NO: 20118-01				
Project Name: EMWO STOPPAGE		Project No: 20119				
Item No.:		Date: 3/9/2001				
Description of Work: Focused crew on inefficient and adjusted potholing						
LOCATION: STA <input type="checkbox"/> LT <input type="checkbox"/> RT						
Prime Contractor: MCI		Sub-Contractor:				
LABOR						
NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE	8	\$ 89.76	1	\$ 122.51	\$ 840.56
ROYCE JOHANNES	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
WILLIAM LINDSTROM	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
WILLIAM WATKINS	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
TAYLOR KILLIAN	LAB60	8	\$ 42.98		\$ 56.82	\$ 343.83
TIMOTHY PELTIER	OPER	8	\$ 86.17		\$ 112.35	\$ 689.34
PAM ERICSON	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
JSUTIN TRUMAN	DUMP	6.5	\$ 83.50		\$ 112.37	\$ 542.78
SUBTOTAL - LABOR: \$ 4,647.35						
LABOR OVERHEAD & PROFIT @ 29.00% \$ 1,347.73						
2% 1-09.6 (1) 2020 ADDITION 2.00% \$ 92.95						
LABOR TOTAL \$ 6,088.03						
EQUIPMENT						
EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL	8		\$ 15.36	\$ 3.01	\$ 122.88
MCI-3016	WA320-7	8		\$ 58.16	\$ 13.35	\$ 465.28
MCI-1023	PC138USLC-2	8		\$ 77.92	\$ 17.19	\$ 623.36
MCI-1029	PC238USLC-11	8		\$ 115.22	\$ 26.26	\$ 921.76
8'x8' Manhole Box*		0	8	\$ 4.11	\$ 3.11	\$ 32.88
MCI-6048		5	8	\$ 24.09	\$ 7.24	\$ 192.72
4" 8'x20' Steel Trench Sh		0	8	\$ 4.99	\$ 3.99	\$ 39.92
4" 4'x20' Steel Trench Sh		0	8	\$ 3.63	\$ 2.63	\$ 29.04
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8		\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8		\$ 30.62	\$ 8.18	\$ 244.96
MCI-0075	DROP 4 80	6.5		\$ 30.32	\$ 8.54	\$ 197.08
MCI-0076	4X2 25KGVW DSL	6.5		\$ 29.75	\$ 5.04	\$ 193.38
MCI-0061	6X4 18YD 70KGVW	6.5		\$ 73.36	\$ 12.76	\$ 476.84
MCI-0061.5	14.5-13	6.5		\$ 15.63	\$ 4.42	\$ 101.60
MCI-0522	8X16	8		\$ 1.86	\$ 0.42	\$ 14.88
SUBTOTAL - EQUIPMENT \$ 3,716.98						
EQUIPMENT OVERHEAD & PROFIT @ 21% \$ 780.57						
EQUIPMENT TOTAL \$ 4,497.55						
MATERIALS / SERVICE						
MATERIALS / SERVICE DESCRIPTION		QUANTITY	UNIT	PRICE	DOLLAR AMOUNT	
CSBC for Directed Backfill of Trench		90.74	TON	8.50	\$ 771.29	
Short Load Dirt Dump		13.05	TON	15.00	\$ 195.75	
Asphalt & Concrete Dump		20	CY	15.00	\$ 300.00	
CANCELLATION FEE MOD STRUCTURE		1	LS	300.00	\$ 300.00	
			LS		\$ -	
			LS		\$ -	
SUBTOTAL - MATERIALS \$ 1,567.04						
MATERIALS MU @ 21% \$ 329.08						
MATERIALS/SERVICE TOTAL \$ 1,896.12						
TOTAL: \$ 12,481.69						
TAX PERCENTAGE 0.00% \$ -						
MTRL TAX ONLY 0.00% \$ -						
SHEET TOTAL: \$ 12,481.69						
The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.						

MARSHBANK

CONSTRUCTION
 Cont. Lic. MARSHCI-05106 / DBE/MBE No. D1M0011507

SHEET NO: 20118-01

Project Name: **EMWO STOPPAGE** Project No: **20118**
 Item No.: _____ Date: _____

Description of Work:
 DAILY EQUIPMENT STAND BY

LOCATION: _____ STA LT RT

Prime Contractor: MCI Sub-Contractor: _____

LABOR

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
CHRIS RAMMAGE	FORE		\$ 89.76		\$ 122.51	\$ -
ROYCE JOHANNES	OPER		\$ 86.17		\$ 112.35	\$ -
WILLIAM LINDSTROM	PIP		\$ 63.01		\$ 86.63	\$ -
WILLIAM WATKINS	GEN		\$ 61.83		\$ 84.90	\$ -
TAYLOR KILLIAN	LAB60		\$ 42.98		\$ 56.82	\$ -
TIMOTHY PELTIER	OPER		\$ 86.17		\$ 112.35	\$ -
PAM ERICSON	DUMP		\$ 83.50		\$ 112.37	\$ -
JSUTIN TRUMAN	DUMP		\$ 83.50		\$ 112.37	\$ -
SUBTOTAL - LABOR:						\$ -
LABOR OVERHEAD & PROFIT @ 29.00%						\$ -
2% 1-09.6 (1) 2020 ADDITION 2.00%						\$ -
LABOR TOTAL						\$ -

EQUIPMENT

EQUIPMENT AND ATTACHMENTS	HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0120	4X4 1 195 CREW DSL		\$ 15.36	\$ 3.01	\$ -
MCI-3016	WA320-7	8	\$ 58.16	\$ 13.35	\$ 106.80
MCI-1023	PC138USLC-2	8	\$ 77.92	\$ 17.19	\$ 137.52
MCI-1029	PC238USLC-11	8	\$ 115.22	\$ 26.26	\$ 210.08
8'x8' Manhole Box*	0	8	\$ 4.11	\$ 3.11	\$ 24.88
MCI-6048	5	8	\$ 24.09	\$ 7.24	\$ 57.92
4" 8'x20' Steel Trench Sh	0	8	\$ 4.99	\$ 3.99	\$ 31.92
4" 4'x20' Steel Trench Sh	0	8	\$ 3.63	\$ 2.63	\$ 21.04
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
Steel Road Plates 8' - 12'	STEEL PLATE	8	\$ 1.51	\$ 1.51	\$ 12.08
MCI-6022	H130	8	\$ 30.62	\$ 8.18	\$ 65.44
MCI-0075	DROP 4 80	6.5	\$ 30.32	\$ 8.54	\$ 55.51
MCI-0076	4X2 25KGVW DSL	6.5	\$ 29.75	\$ 5.04	\$ 32.76
MCI-0061	6X4 18YD 70KGVW	6.5	\$ 73.36	\$ 12.76	\$ 82.94
MCI-0061.5	14.5-13	6.5	\$ 15.63	\$ 4.42	\$ 28.73
MCI-0522	8X16	8	\$ 1.86	\$ 0.42	\$ 3.36
SUBTOTAL - EQUIPMENT:					\$ 919.30
EQUIPMENT OVERHEAD & PROFIT @ 21%					\$ 193.05
EQUIPMENT TOTAL					\$ 1,112.35

MATERIALS / SERVICE

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
		TON		\$ -
		TON		\$ -
		CY		\$ -
SUBTOTAL - MATERIALS				\$ -
MATERIALS MU @ 21%				\$ -
MATERIALS/SERVICE TOTAL				\$ -
TOTAL:				\$ 1,112.35
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
SHEET TOTAL:				\$ 1,112.35

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

Cost for Item 460

Activity Resource	Desc	Pcs	Quantity Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equip Ment	Sub-Contract	Total
BID ITEM = 460 CLIENT# = 46										
Description = DAILY MANG COST Unit = DAY Takeoff Quan: 1.000 Engr Quan: 1.000										
10001	ADDITIONAL MANAGEMENT-TRACKING CHAN			Quan: 1.00	LS	Hrs/Shft: 8.00	Cal: 508	WC: NONE		
<u>SUP01</u>	Superintendent		8.00 CH	Prod:	1.0000	S	Lab Pcs:	2.50	Eqp Pcs:	2.50 **Unreviewed
8TRPU	Pick up	2.00	16.00 HR	15.330				245		245
8TRSUPT	Truck-Supt.-PM-Est.(No	0.50	4.00 HR	17.520				70		70
SUG	Superintendent-(General)	0.50	4.00 MH	66.520	402					402
SUPENG	Project Engineer	1.00	8.00 MH	37.000	412					412
SUPM	Project Manager	1.00	8.00 MH	50.500	546					546
\$1,674.70	20.0000 MH/LS		20.00 MH	[966.08]	1,359			315		1,675
=====> Item Totals: 460 - DAILY MANG COST										
\$1,674.70	20.0000 MH/DAY		20.00 MH	[966.08]	1,359			315		1,675
1,674.700	1 DAY				1,359.34			315.36		1,674.70
\$1,674.70	*** Report Totals ***		20.00 MH		1,359			315		1,675



Surveying and Construction Technologies
 2025 Riverside Drive, Suite D
 Mount Vernon, WA 98273

Invoice

Date	3/17/2021
Invoice #	21.09-01

Bill To
Marshbank Construction Po Box 97 Lake Stevens, WA 98258

Project Name	21.09 East Marginal Way Outfall Storm...	
	GC Proj. #	
	NLS Proj. #	21-09
	Contract #	

Bid Item	Scope	LS Value	Prev. %	Prev. Amt	Total %	Current Co...
Construction Surveying Control	Establish Survey Control Project Network	918.00			100.00%	918.00
Site Preparation Staking	Site Preparation Staking	432.00			100.00%	432.00
Storm Staking	Storm Staking	1,782.00			50.00%	891.00
	Bid Item:	5,400.00			41.50%	2,241.00
Change Order #01	Storm Revisions	1,755.00			100.00%	1,755.00
	~~~~ CHANGE ORDER ~~~~~ March 17, 2021 > Added 1 Change Order #01. (+\$1,755.00) > Added 1 Change Order #02. (+\$1,200.00) Total change to estimate +\$2,717.50 ~~~~~					
						3,996.00
Retention (5%)						-199.80

<b>Total</b>	\$3,796.20
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$3,796.20

**Salinas Sawing & Sealing, Inc.**

7804 40th Ave W.  
Mukilteo, WA 98275

**Invoice**

Date	Invoice #
3/9/2021	33689

Bill To
MARSHBANK CONSTRUCTION P.O. BOX 97 LAKE STEVENS, WA 98258-0097

Ship To
E. MARGINAL WAY OUTFALL STORMWATER RETROFIT PROJECT CITY OF TUKWILA MCI PROJECT 20118 PR-1729

P.O. No.	Terms	Due Date	Project	Our Job No.
	Net 30	4/8/2021	21-9415 E. Marginal Way...	21-9415
Item	Description	Quantity	Rate	Amount
300	Asphalt Demo- 9"	228	2.34	533.52
600	Concrete Demo- 7" (16" TD)	228	4.90	1,117.20
825	Standby Time Per Hour	1.5	120.00	180.00
300	Asphalt Demo- 9"	86	2.34	201.24
600	Concrete Demo- 7" (16" TD)	86	4.90	421.40
750	Slurry Vacuum Equip & Disposal		175.00	175.00
Work Completed 03/09/2021 (W.O. 53197)				
Office:(425) 745-0706 Fax:(425) 745-0628			<b>Total</b>	\$2,628.36

Bid Item	Description	Quantity	Unit	Amount
2	<b>Temporary Water Pollution/Erosion Control</b>	1	LS	\$15,000.00
	Initial TESC setup	1	LS	\$5,000.00
	TESC Daily Rate	60	Day	\$166.67
5	<b>Project Temporary Traffic Control</b>	1	LS	\$75,000.00
	Initial traffic control set up	1	LS	\$15,000.00
	Traffic control daily rate	60	Day	\$1,000.00
6	<b>Removal of Structures &amp; Obstructions</b>	1	LS	\$20,000.00
	Saw cutting 2+25 - 15+30	1	LS	\$8,000.00
	Removal of hardscapes 2+25 - 15+30	1	LS	\$4,000.00
	Saw cutting 16+80 - 21+10	1	LS	\$4,000.00
	Removal of hardscapes 16+80 - 21+10	1	LS	\$4,000.00
39	<b>Pump Station Complete</b>	1	LS	\$80,000.00
	Excavation, grading, and installing structure 19	1	LS	\$45,000.00
	Procurement of electrical components	1	LS	\$22,500.00
	Instillation of conduit boxes and wiring	1	LS	\$7,500.00
	Training for pump station	1	LS	\$5,000.00
40	<b>Stormwater Media Filer</b>	1	LS	\$65,000.00
	Excavation, grading, and installing structure 100	1	LS	\$60,000.00
	Instillation of modular wetland media	1	LS	\$5,000.00
43	<b>Traffic Signal Modifications</b>	1	LS	\$21,200.00
	Procurement of materials	1	LS	\$2,120.00
	Instillation of materials	1	LS	\$20,000.00

Submittal Approval Codes	
	NET - No Exceptions Taken
	<b>RAR - Revise and Resubmit</b>
X	CA - Conditionally Approved, See Comments
	<b>CA - Conditionally Approved, Make Corrections</b>
	REJ - Rejected See Comments

Reviewer Comments:

Lump Sum Breakdown is approved for items included within.

Additionally, bid item #3 for "mobilization" will be processed per WSDOT Spec 1-09.7

*J. Matt North* 03/04/2021



**Cc:** Kenton Wilde <Kenton@marshbankconst.com>

**Subject:** RE: EMWO: Weekly Progress Meeting - Link to MS Teams meetings.

**Importance:** High

Please see attached RFI 014. This is time sensitive by tomorrow a.m. Photos attached for reference.

Thank you

Rob Gammell

**Marshbank Construction, Inc.**

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 209-8225 Cell

(425) 377-9708 Office

(425) 377-0709 Fax

## Rob Gammell

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**Subject:** FW: BIO CLEAN STORAGE

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**From:** Daryl.Clark@Ferguson.com <Daryl.Clark@Ferguson.com>  
**Sent:** Thursday, March 18, 2021 4:18 PM  
**To:** Patrick <Patrick@marshbankconst.com>  
**Cc:** Rob Gammell <rob@marshbankconst.com>; PANDORA_6@MSN.COM  
**Subject:** BIO CLEAN STORAGE

Patrick,  
I guess there serious about storage. I thought a few hundred bucks. See below Bio Clean comments. Also a \$300 double cancellation fee to the owner.  
Please advise on PO or cost code to use for billing.  
Thank you.  
Daryl Clark

Hope you are doing well. The East Marginal Way Outfall shipment has been cancelled a couple times this month. We do not have room to store this unit after 30 days from completion, which would be March 24th. Will the contractor be able to take this unit by March 31st? We will need to begin charging storage fees of \$2982 per month on April 1st. Hopefully the fees can be avoided by the contractor taking the unit before March 31st. Thanks for your help.



Jeff Pierce  
Regional Sales Manager  
Pacific Northwest

# MARSHBANK

## CONSTRUCTION

*Cont. Lic. MARSHCI+05106 / DBE/MBE No. D1M0011507*

March 31, 2021

Matt North, R.E  
KPG  
2502 Jefferson Ave  
Tacoma, WA 98402

RE: East Marginal Way Outfall Stormwater Retrofit Project  
Agreement No. WQC-2016-Tukwil-00132  
Supplemental Information  
Serial Letter No. 8.2 Additional Pricing for Exploratory Vactoring to Confirm the Placement of Structure #100

Mr. North,

The purpose of this letter is for Marshbank Construction, Incorporated (Marshbank Construction) to provide the City of Tukwila and its representatives with supporting documentation to supplement the notices of serial letters 008 and 008.1. This additional supplementation is force account pricing for directed potholing per the attached email totaling \$8969.00. Please let me know if there are any questions.

Sincerely,

Patrick Gleason  
Marshbank Construction

Project Name: East Marginal Way Outfall Project No: 20118  
Item No.: Date: 3/26/2021

Description of Work:  
Sawcut and remove asphalt/concrete to allow for vactor trucks to expose the footprint of structure 100.

LOCATION: East Marginal Way STA  LT  RT

Prime Contractor: MCI Sub-Contractor:

**LABOR**

NAME	OCCUPATION	STRAIGHT TIME		OVERTIME		DOLLAR AMOUNT
		HOURS	RATE	HOURS	RATE	
Dustin Jones	FORE	8	\$ 67.30	1	\$ 93.05	\$ 631.45
Glenn Minkel	PIP	8	\$ 63.01		\$ 86.63	\$ 504.05
Jeremy Dickey	GEN	8	\$ 61.83		\$ 84.90	\$ 494.67
James Healy	TCS	8	\$ 56.02		\$ 76.25	\$ 448.16
SUBTOTAL - LABOR:						\$ 2,078.33
LABOR OVERHEAD & PROFIT @ 29%						\$ 602.72
2% 1-09.6 (1) 2020 ADDITION						\$ 41.57
<b>LABOR TOTAL</b>						<b>\$ 2,722.61</b>

**EQUIPMENT**

EQUIPMENT AND ATTACHMENTS		HOURS WORKING	HOURS STANDBY	ADJUSTED RATE	STANDBY RATE	DOLLAR AMOUNT
MCI-0132	4X2 1 3/4 310 CONV DIESEL	9		\$ 20.19	\$ 3.33	\$ 181.71
MCI-0112	4X4 1/2 191 CREW GAS	8		\$ 14.48	\$ 1.96	\$ 115.84
MCI-1023	PC138USLC-2	1	7	\$ 77.92	\$ 17.19	\$ 198.25
MCI-3016	WA320-7	5.5	2.5	\$ 58.16	\$ 13.35	\$ 353.26
MCI-1026	308E2 CR SB	5.5	2.5	\$ 62.11	\$ 15.16	\$ 379.51
MCI-1029	PC238USLC-11		8	\$ 115.22	\$ 26.26	\$ 210.08
4" 4'x20' Steel Trench Sh	Trench Shield		8	\$ 3.63	\$ 2.63	\$ 21.04
4" 8'x20' Steel Trench Sh	Trench Shield		8	\$ 4.99	\$ 3.99	\$ 31.92
Steel Road Plates 8' - 12'	Steel Plate	8		\$ 1.51	\$ -	\$ 12.08
Steel Road Plates 8' - 12'	Steel Plate	8		\$ 1.51	\$ -	\$ 12.08
Steel Road Plates 8' - 12'	Steel Plate	8		\$ 1.51	\$ -	\$ 12.08
Steel Road Plates 8' - 12'	Steel Plate	8		\$ 1.51	\$ -	\$ 12.08
Steel Road Plates 8' - 12'	Steel Plate	8		\$ 1.51	\$ -	\$ 12.08
MCI-6061	Breaker	1	7	\$ 17.40	\$ 8.18	\$ 74.66
SUBTOTAL - EQUIPMENT						\$ 1,626.67
EQUIPMENT OVERHEAD & PROFIT @ 21%						\$ 341.60
<b>EQUIPMENT TOTAL</b>						<b>\$ 1,968.27</b>

**MATERIALS / SERVICE**

MATERIALS / SERVICE DESCRIPTION	QUANTITY	UNIT	PRICE	DOLLAR AMOUNT
Salinas Sawcutting & Applicable fees	1	LS	999.88	\$ 999.88
VPC Vactor & Applicable fees	1	LS	2,535.75	\$ 2,535.75
SUBTOTAL - MATERIALS				\$ 3,535.63
MATERIALS MU @ 21%				\$ 742.48
<b>MATERIALS/SERVICE TOTAL</b>				<b>\$ 4,278.11</b>
TOTAL:				\$ 8,969.00
TAX PERCENTAGE 0.00%				\$ -
MTRL TAX ONLY 0.00%				\$ -
<b>SHEET TOTAL:</b>				<b>\$ 8,969.00</b>

The compensation as indicated in this price does not include any amounts for changes in the sequence of work, delays, disruptions, rescheduling, extended overheads, acceleration, and/or impact costs, and the right is expressly reserved to make claim for any and all of these items of cost prior to any final settlement of this contract.

**Salinas Sawing & Sealing, Inc.**

7804 40th Ave W.  
Mukilteo, WA 98275

**Invoice**

Date	Invoice #
3/26/2021	33736

Bill To
MARSHBANK CONSTRUCTION P.O. BOX 97 LAKE STEVENS, WA 98258-0097

Ship To
E. MARGINAL WAY OUTFALL STORMWATER RETROFIT PROJECT CITY OF TUKWILA MCI PROJECT 20118 PR-1729

P.O. No.	Terms	Due Date	Project	Our Job No.
	Net 30	4/25/2021	21-9415 E. Marginal Way...	21-9415
Item	Description	Quantity	Rate	Amount
300	Asphalt Demo- 12"	315	3.12	982.80
300	Asphalt Demo- 13"	192	3.90	748.80
300	Asphalt Demo- 9"	655	2.34	1,532.70
600	Concrete Demo- 9" (18" TD)	655	6.30	4,126.50
600	Concrete Curb & Gutter Cuts- 12"	2	25.00	50.00
750	Slurry Vacuum Equip & Disposal- 2 Systems Work Completed 03/17/2021 (W.O. 50716)	2	175.00	350.00
300	Asphalt Demo- 9"	56	2.34	131.04
600	Concrete Demo- 9" (18" TD)	56	6.30	352.80
300	Asphalt Demo- 7"	42	1.82	76.44
600	Concrete Demo- 9" (16" TD)	42	6.30	264.60
750	Slurry Vacuum Equip & Disposal Work Completed 03/26/2021 (W.O. 53280)		175.00	175.00
Office:(425) 745-0706 Fax:(425) 745-0628			<b>Total</b>	\$8,790.68

**Ventilation Power Cleaning, Inc.**  
 3914 Leary Way NW  
 Seattle, WA 98107

# QUOTATION

Quote Number: 2103156  
 Quote Date: Mar 26, 2021  
 Page: 1

Voice: 206-634-2750  
 Fax: 206-634-2753

USM VPC Disposal Tickets - SEE FILE

AP@MarshbankConst.com; Serg@MarshbankConst.com

12/31/21 RP

*VPC SOI #05*

*1130389*

Quoted To:
MARSHBANK CONSTRUCTION PO BOX 97 LAKE STEVENS, WA 98258

EMWO  
 81ST & E MARGINAL WAY S  
 TUKWILA, WA

Customer ID	PO Number	Sales Rep
MAR001	20118	09-Will Palmer

Item Qty	Line Item ID	Description	Price Each	Amount
✓ 1.00		POTHOLE AS DIRECTED. USED TWO TRUCKS.		
✓ 6.25	4	COMBO VAC TRK W/OPERATOR (PER HOUR) 1ST TRUCK 3.25 HOURS, 2ND TRUCK 3 HOURS	245.00	✓ 1,531.25
✓ 2.00	W	LOAD OF WATER FOR FLUSHING OR POTHOLING	40.00	✓ 80.00
✓ 10.66	DISP	DISPOSAL FEE AT LOCAL RECYCLING FACILITY (PER TON) 1ST TRUCK 5.51 TONS, 2ND TRUCK 5.15 TONS	75.00	✓ 799.50
1.00	SPW	STATE PAPERWORK ADMINISTRATIVE FEE	125.00	✓ 125.00

*ok W.P.*

Subtotal	2,535.75
Sales Tax	
<b>TOTAL</b>	<b>2,535.75</b>

## Patrick

---

**From:** Rob Gammell  
**Sent:** Wednesday, March 31, 2021 3:07 PM  
**To:** Patrick  
**Subject:** FW: EMWO: SL 008- Supplemental Costs Compiled - Pending Response

Rob Gammell

### Marshbank Construction, Inc.

P.O. Box 97  
3304 Old Hartford Road  
Lake Stevens, WA 98258-0097  
(425) 209-8225 Cell  
(425) 377-9708 Office  
(425) 377-0709 Fax

---

**From:** Matt North <matt@kpg.com>  
**Sent:** Tuesday, March 23, 2021 6:53 PM  
**To:** Rob Gammell <rob@marshbankconst.com>  
**Cc:** Jacob Williams <jacobw@kpg.com>; Patrick <Patrick@marshbankconst.com>; Ray Edralin <ray@kpg.com>; Nelson Davis <Nelson@kpg.com>; Alexa Henry <alexa@kpg.com>; Jacob Williams <jacobw@kpg.com>; Jeff Heglund <Jeff.Heglund@TukwilaWA.gov>; Ryan Larson <Ryan.Larson@TukwilaWA.gov>; Ernie Hinds <ernieh@marshbankconst.com>; Eric Pritchard <Eric.Pritchard@TukwilaWA.gov>  
**Subject:** EMWO: SL 008- Supplemental Costs Compiled - Pending Response

Hello Rob,

As discussed over the phone earlier this evening, please proceed as planned the potholing of the proposed location of Structure #100 on Friday 3/26 as discussed. Additionally we will look to see if there is a sewer manhole in the NW corner area of the intersection of S 81st PL & EMW to determine if there is a line that runs south. If there is a sewer line to be found running south, an additional pothole may be directed on Friday at or near the location of structure #25. Once this information is ascertained, KPG can issue the proposed plan set in response the design conflicts with the found communication lines.

The attached are the most recent storm designs to avoid Zayo's found lines. Plan pages #7 & #8 in re-design, are not yet official, and currently "Not for Construction"

Attachments:

- Structure 100 & 25 - Proposed Plan - Not for Construction.pdf

It is understood the implications of Marshbank's Serial Letter #008 by KPG and the City. It is known Marshbank's position to incurring daily costs and impacts provided in serial letter #008.

Please proceed with potholing Friday for the modular structure verification as requested. I will be onsite Friday morning for tracking purposes.

Note: I have change the subject line of this incoming email for tracking purposes to reference Marshbank's "SL 008- Supplemental Costs Compiled" letter.

Contact me with any questions or concerns to this direction.

Thanks!

**Matt North**

Resident Engineer

KPG | SEATTLE • BELLEVUE • TACOMA • WENATCHEE

**Interdisciplinary Design**

2502 Jefferson Ave Tacoma WA 98402

O: 253 627 0720

C: 206 595 1733

[www.kpg.com](http://www.kpg.com)



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**From:** Rob Gammell <[rob@marshbankconst.com](mailto:rob@marshbankconst.com)>

**Sent:** Monday, March 22, 2021 3:56 PM

**To:** Matt North <[matt@kpg.com](mailto:matt@kpg.com)>; Patrick <[Patrick@marshbankconst.com](mailto:Patrick@marshbankconst.com)>; Ray Edralin <[ray@kpg.com](mailto:ray@kpg.com)>; Nelson Davis <[Nelson@kpg.com](mailto:Nelson@kpg.com)>; Alexa Henry <[alexa@kpg.com](mailto:alexa@kpg.com)>; Jacob Williams <[jacobw@kpg.com](mailto:jacobw@kpg.com)>; Jeff Heglund <[Jeff.Heglund@TukwilaWA.gov](mailto:Jeff.Heglund@TukwilaWA.gov)>; Ryan Larson <[Ryan.Larson@TukwilaWA.gov](mailto:Ryan.Larson@TukwilaWA.gov)>; Ernie Hinds <[ernieh@marshbankconst.com](mailto:ernieh@marshbankconst.com)>; Davis (US), John C <[John.C.Davis4@boeing.com](mailto:John.C.Davis4@boeing.com)>

**Subject:** RE: Onsite Z-Line Meeting - Boeing Property & RFI #20 questions to be answered at meeting

Matt,

Please find attached serial letter 08 supplemental information and direct costs through 3/17/2021. Please don't hesitate to call or email with any questions.



As we are CCTV'ing the line tomorrow as we discussed in Friday's meeting. It is important to note that this work is not critical path work and would have taken place concurrently with critical path work. Therefore we should continue not to be charges working days.

Thanks

Rob Gammell

**Marshbank Construction, Inc.**

P.O. Box 97

3304 Old Hartford Road

Lake Stevens, WA 98258-0097

(425) 209-8225 Cell

(425) 377-9708 Office

(425) 377-0709 Fax





## INFORMATIONAL MEMORANDUM

TO: **Transportation & Infrastructure Services Committee**  
FROM: **Laurel Humphrey, Legislative Analyst**  
DATE: **August 3, 2021**  
SUBJECT: **School Zone Automated Traffic Safety Camera Revenue**

### **ISSUE**

The proposed resolution states that revenues generated by school zone automated traffic cameras, beyond those needed to fully fund the program, should be directed only to school traffic and pedestrian safety initiatives.

### **BACKGROUND**

Ordinance 2612, adopted in August 2019 after a rigorous year-long public meeting and outreach process¹, authorizes the use of automated traffic safety cameras in school speed zones in accordance with the requirements of Chapter 46.63 RCW. In August 2020 the City Council authorized a contract with NovoaGlobal Inc. for implementation of the program, which is intended to be cost neutral to the City, with personnel, vendor, equipment, and adjudication all covered by program revenues. The pilot program initially proposed to place two cameras, westbound and eastbound, located between the 4200 and 4600 blocks on South. The Community Services & Safety Committee received a program update last month, including a staff recommendation that two additional cameras be placed on 42nd Avenue South. The program will begin this year with the return to in-person school. September will serve as an educational phase-in with infractions beginning in October.

During the August 2020 discussion of the contract, the City Council made clear that the program goal should be behavioral change, not punishment or revenues, with the end result being significantly improved safety for our community members. At that time the Council requested the preparation of a policy that would direct any revenue above the cost of the program be used exclusively for school zone traffic safety improvements, including infrastructure and driver education. There are many unknowns with this pilot program, and staff is recommending this policy direction be captured in a resolution that makes the intent clear but provides future flexibility to adjust as new information becomes available. It is difficult to predict program revenue at this time and the City Council can adjust based on the first year of implementation.

### **ATTACHMENTS**

Draft resolution

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¹ Extensive background information can be found in the [7/22/19 COW presentation](#)

## DRAFT

### **A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF TUKWILA, WASHINGTON, RELATING TO REVENUES GENERATED FROM THE USE OF AUTOMATED TRAFFIC SAFETY CAMERAS IN SCHOOL ZONES.**

**WHEREAS**, vehicles speeding through school zones is an ongoing problem of great concern to the Tukwila community; and

**WHEREAS**, the Washington State Legislature has adopted Chapter 46.63 RCW, which authorizes local jurisdictions to use automated traffic safety cameras in school speed zones; and

**WHEREAS**, the Tukwila City Council adopted Ordinance No. 2612, codified at Tukwila Municipal Code Chapter 9.53, authorizing the use of automated traffic safety cameras in school zones; and

**WHEREAS**, the City Council's goal relating to use of the cameras is behavioral change leading to a safer environment for all members of the community; and

**WHEREAS**, the City Council intends that revenues generated by the automated traffic safety cameras be used principally to cover the costs of the enforcement program, with any surplus revenues to be used only to expand efforts to improve traffic and pedestrian safety in school zones;

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF TUKWILA, WASHINGTON, HEREBY RESOLVES AS FOLLOWS:**

**Section 1.** Revenues generated by automated traffic safety cameras in school zones shall be used to pay the costs of administering the automated traffic safety camera program including, but not limited to, the following:

- personnel costs;
- vendor costs; and

- equipment costs associated with installation, administration, enforcement, operations, maintenance, adjudication, and technology infrastructure security and integration.

**Section 2.** Revenues in excess of costs described in Section 1 shall be directed towards school traffic and pedestrian safety, including school zone infrastructure projects and driver education campaigns. Distribution of revenues between school zone infrastructure projects and driver education campaigns shall be evaluated following the first year of school zone automated traffic safety camera implementation.

**Section 3.** Revenues from fines for traffic infractions under Tukwila Municipal Code Chapter 9.53 shall not be diverted to non-traffic-safety purposes.

PASSED BY THE CITY COUNCIL OF THE CITY OF TUKWILA, WASHINGTON, at a Special Meeting thereof this _____ day of _____, 2021.

ATTEST/AUTHENTICATED:

_____  
Christy O'Flaherty, MMC, City Clerk

_____  
Kate Kruller, Council President

APPROVED AS TO FORM BY:

Filed with the City Clerk: _____  
Passed by the City Council: _____  
Resolution Number: _____

_____  
Office of the City Attorney