# CITY OF EL PASO, TEXAS AGENDA ITEM DEPARTMENT HEAD'S SUMMARY FORM

**DEPARTMENT:** Capital Improvement

**AGENDA DATE:** January 4, 2022

**CONTACT PERSON/PHONE:** Sam Rodriguez, P.E., City Engineer, (915) 212-1845

**DISTRICT(S) AFFECTED:** 2, 3, and 5

STRATEGIC GOAL: No 7: Enhance and Sustain El Paso's Infrastructure Network

## **SUBJECT:**

That the City Council approves a Change Order to the Montana Corridor RTS project, Contract No. 2018-836 with Venegas Engineering Management and Construction, Inc., in the amount of ONE HUNDRED THIRTY THREE THOUSAND ONE HUNDRED FIFTY FIVE AND 22/100 DOLLARS (\$133,155.22) for the additional cost related to the additional wiring with an increased gauge and additional conduit required to account for relocated electrical services. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. The new contract sum, including this change order notice is Twenty Million Forty Six Thousand One Hundred Seven and 45/100 Dollars (\$20,046,107.45). The City Manager is authorized to establish the funding sources and make any necessary budget transfers.

### BACKGROUND / DISCUSSION:

The Montana Rapid Corridor Transit System (RTS) project contains station canopy shelters that require the furnishing and installation of electrical services. Site constraints forced installation of services farther than anticipated requiring increased lengths and thickness on electrical cabling. As a result, additional wiring with an increase in gauge, additional conduit and bores were required for the relocated services to accommodate the proposed service loads. Affected stations include Station 01 Copia IB/OB, Station 02 Huckleberry IB/OB, Station 03 Geronimo IB/OB, Station 08 McRae OB, Station 09 Lorne OB, Station 11 George Dieter IB/OB, Station 12 Saul Kleinfeld IB/OB and Station 13 Tierra Este IB/OB. The contractor and city have negotiated and have agreed on a fair and reasonable cost for these additional components. This change order is within the project budget.

#### **COUNCIL REPRESENTATIVE BRIEFING:**

Was a briefing provided? Yes or Not Applicable (Routine)
If yes, select the applicable districts.
District 1
District 2
District 3
District 4
District 5
District 6
District 7
District 8
All Districts

## **PRIOR COUNCIL ACTION:**

DATE AWARDED BY COUNCIL – December 11, 2018 – City Council Awards Solicitation No. 2018-836, CSJ 0374-02-089 to Venegas Engineering Management and Construction, Inc.

## **AMOUNT AND SOURCE OF FUNDING:**

Total = \$133,155.22 FTA/FHWA \$9,645.85 - City

### **BOARD / COMMISSION ACTION:**

N/A

Gvette Hernandez

**DEPARTMENT HEAD:** 

### RESOLUTION

### BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Council approves a Change Order to the Montana Corridor RTS project, Contract No. 2018-836 with Venegas Engineering Management and Construction, Inc., in the amount of ONE HUNDRED THIRTY THREE THOUSAND ONE HUNDRED FIFTY FIVE AND 22/100 DOLLARS (\$133,155.22) for the additional cost related to the additional wiring with an increased gauge and additional conduit required to account for relocated electrical services. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. The new contract sum, including this change order notice is Twenty Million Forty Six Thousand One Hundred Seven and 45/100 Dollars (\$20,046,107.45). The City Manager is authorized to establish the funding sources and make any necessary budget transfers.

APPROVED THIS	DAY OF	2022.
		CITY OF EL PASO:
ATTEST:		Oscar Leeser Mayor
Laura D. Prine City Clerk		
APPROVED AS TO FORM:		APPROVED AS TO CONTENT
Leslie B. Jean-Pierre Assistant City Attorney		Yvette Hernandez, P.E. Director of Capital Improvement Department

## Contract Change Order Coversheet /Checklist City of El Paso Capital Improvements Department

Project Name:	Montana RTS Improvements Date Received: August 16, 2021								
Solicitation Number:	CSJ 0374-02-089 / S	ol 2018-836			Contractor: Ve	negas Engineerin	g Management an	d Construction, Inc.	VEMAC)
Change Order Number	er: <u>CO #13</u>				Date CO was id	dentified: May 5, 2	2021		
Funding Type:	QOL General F	und	TX DOT	<u>X</u> _	CDBG	AIRPORT		FTA X	FAA
Contingency: Origin	al Budget <mark>\$1,772,194</mark>	<u>.87</u>	Current R	emaining Bu	ıdget <b>\$1,378,3</b> 9	<b>1.73</b> (after CO#13	PO No	.(s) <u>2000000322</u>	
Identified by:	DOR Contracto	or X	User Dep	t	CID X	Other	(identify:	)	
Impacts: Cost \$133	3 <mark>,155.22</mark> Time*	0workwe	ek days (C	heck all that	: Apply) * Identi	fy Schedule activit	ty impacted, attac	h frag-net justifying t	me.
If Written Order provided pr	der shall be ap	attach copy of	the written di	irective, and just	ification, as why the	direction was necessary	y prior to a formal agreer	ment. Attach concurrence o	f representative
REFER TO THE ATTAC	CHED DOCUMENTATION	ON.							
	pe Check One: Mation, Direction from DOR and	•		Discretion cases that the CO of				or will not function for inter hy the change is required	nded purpose)
Differing site condition User requested Change ** Designer Directive (ASI) Value Engineering Change	<u>x</u> _				Subs Erro	neering Change/Constru titution Contractor initia r and omission ntity Adjustment			
Other					_				
** Identify Funding source _	Funding from FHW/	A & FTA			Gran	t Funded Projects attac	<b>h</b> Concurrence of Grant I	Funded Programs Director	
Costs I curren Work (	modate the proposed ser related to new items on a t bid items and were fou at these stations did not HANGED, CLASSIFIED AS	this change or and to be reas affect the crit	onable. No	additional tim	ne was required o	r granted with this c		Final amount increa quantities required w accounted during th Negotiated amoun	sed due to additional thich were not initially a RFP process. Final t is based on actual proved unit pricing.
REFER TO ATTACHED	DOCUMENTATION.								
(Reference general conditions of the conditions	for implementing ons 2.5.2) Check all that apple es Previously Approved on Lump Sum Force Account Change)		(Attach reco	of supporting d rd of Negotiation illed record as pa	ns, and Cost Analysis	Attach Copy of Contractors C Final Negotial NET Amount of FINAL Amoun	ice/Time Analy of analyst justifying cost riginal Proposal on NEW ted amount on NEW ITEI due to Qty Increase/Dec it on approved CO: \$133 ted	and quantities  ITEMS: \$31,656.69  MS: \$134,309.49  rease: \$(1,154.27)	ays
Independent Cost Estimate	prepared <b>Yes_<mark>X</mark>_ No</b> , Va	lidated, Vendor	Quotes, Publi	shed Data, Previ	ously agreed Costs, (	Other (attach document	ation of cost analysis)		
Contract Change	Reference: Refe	rence Pla	n /Spec o	change, D	escribe Char	ge (Attach add	ditional sheets	if necessary)	
Narrative Description of	Change SOW:	Refer to Ch	ange Order	for detailed s	cope of work.				
Existing Drawing Refere	nce:	Sheets 296,	303, 304, 3	<b>11, 354, 366,</b> 3	367, 379, 380, 389	), 390, 398 and 399.			
Existing Specification Re	ference:	Item ELP 19	Electrical Se	ervices, ELP 20	Ground Boxes, E	LP 25 Electrical Cond	uit and ELP 26 Electri	cal Conductors remain u	nchanged.
New Drawings/Specifica	tions Reference:	No new nor	revisions w	ere issued. Co	ntractor will inco	rporate changes in th	ne as-built drawings.		
User Department Co	ncurrence (if required	):				M&S	Print Name		
Requested by Project	t /Construction Manag	ger:				12/15/2021	Print Name		
Recommended for A	pproval by City Engine	er:	Michael J	. Vonasek, P	.E.		Date:		

**Assistant Director Construction** 

## CITY OF EL PASO CONSTRUCTION CHANGE ORDER

CONSTRUCTI	ON CHANGE ORDER NO.:	13	DATE:		December 13, 2021		X SCOPE CHANGE	
PROJECT:	Montana	RTS Imp	provements		SOLICITATION NO.:	CSJ 0374-02-089 Solicitation 2018-836	V	CTION CHANGE
<del>-</del>					<del>-</del>		_	
	Original Contra			583,784.49	T-4-1 4-	Contract Time to F	_	373
Net Chan	Net Change by previous Change by previous Construction Quant	•	<u> </u>	329,167.74	i otal da	ys added due to Change Or Total days added for thi	_	71 <b>0</b>
not ona	Amount of this Construction Cha			133,155.22		New Contract Time to F	_	444
	New Amended Contra	act Amount:		046,107.45		Estimated FINAL Comp	letion Due Date	Mar 2, 2022
	Change Order P	Percentage:		2.36%			_	
CONTRACTOR N	AME: Venegas Engine	eering Ma	anagement and Con	struction, li	nc.			
LEASE PROVIDE A DI	ETAILED SCOPE OF WORK	OF THE	CHANGE ORDER (S	SEE BACK F	OR REASON/JUSTIFIC	ATION):		
	nish and install additional elect on 03 Geronimo OB, Station 0							
eel or concrete; replacion ints; furnishing, installin ervice supports, foundated ds, weather-proof junct	ope of work includes furnishing ng pavement structure, sod, ri g, and testing electrical condu- tions, anchor bolts, riprap, enc- ion boxes, splice kits, wire coud to complete the work.	prap, curt actors; fur closures, s	os, or other surface; r nishing and installing switches, breakers, so	narking locat breakaway o ervice condu	ion of conduit; furnishing connectors; furnishing, ins it, fittings, service conduc	and installing fittings, justalling and connecting attalling and connecting attors, grounding conduc	nction boxes, a all components tors, ground bus	nd expansion including poles, s bar, ground
- Specifications: Item	ELP 19 Electrical Services, E	LP 20 Gr	ound Boxes, ELP 25	Electrical Co	nduit and ELP 26 Electric	cal Conductors remain	unchanged.	
- Drawings: Sheets 29	96, 303, 304, 311, 354, 366, 36	67, 379, 3	80, 389, 390, 398 an	d 399 remair	unchanged. Contractor	will incorporate the char	nges in the as-b	uilt drawings.
BB1 - 160 ELP-20 BB1 - 161 ELPO 0 BB1 - 162 ELP-20 BB1 - 163 ELPO 0 BB1 - 164 ELP-20 BB1 - 165 ELP-20 BB2 - 240 ELPO 0 BB2 - 241 ELP-10	CO#13.01A LENGTH OF #2 A 6-5 CO#13.01B LENGTH OF CO#13.01C LENGTH OF #2/C 6-2 CO#13.01D LENGTH OF CO#13.01E LENGTH OF #4/C 5-3 CO#13.01F (PVC)(SCHD 5-4 CO#13.01G (PVC)(BORE CO#13.01H LENGTH OF #4/C 9-1 CO#13.01I SVC. POINT E amount of \$134,309.49 in nev	#4 AWG O AWG CA #3/0 AWG O AWG CA 40)(3") w O AWG CA ELECT. M	CABLE with an estimated with an estimated GCABLE with an estimated qualition (3") with an estimated qualition (3") with an estimated gualition with an estimated gualition (3") with an estimated gualitic (3") with an estimated gualition (3") with an estimated gualitic (3") with an estimated gualit	nated quantity timated quantity timated quantity ted quantity of 1,150 ated quantity ted quantity	ry of 1,285-LF and at a cu of 1,110-LF and at a neg titity of 2,745-LF and at a of 1,740-LF and at a negot -LF and at a negotiated u of 345-LF and at a negot of 2,055-LF at a negotiate	Irrent contract unit price of \$8.9 current contract unit price of \$10 init price of \$10 init price of \$10 init price of \$19.35/LF iated unit price of \$32.5 ed unit price of \$10.48/L	of \$4.04/LF. 90/LF. ce of \$11.76/LF 48/LF. 7/LF. F.	
				0	тот	AL CHANGE ORDER AMOU	JNT: \$	133,155.22
001771075	<b>D</b>							
CONTRACTO	rK							
1			, of				agree and acce	ept the terms and
', _	conditions of this change orde		, 01				g. 55 and acce	tomio unu
	considerio of this originge of the					5		
Signature: _						Date:		
CITY OF EL P	ASO (OWNER)							
I, _		of the City		uthorize and	direct the Contractor to p	proceed with additional	work as describ	ed
Signature: _						Date:		
	Sam Rodriguez, P.E., City E							

## CITY OF EL PASO CONSTRUCTION CHANGE ORDER - Pg. 2

CONSTRUCTION CHANG	GE ORDER NO.: 13	DATE	:	December 13, 2021		X SCOPE CH	IANGE
PROJECT:	Montana RTS In	– iprovements		SOLICITATION NO.:	CSJ 0374-02-089 Solicitation 2018-836	X CONSTRU	CTION CHANGE
					Concitation 2010-030		
	Original Contract Amoun	t: \$ 19	9,583,784.49		Contract Time to F	inal Completion	0
Net Cha	nge by previous Change Orders	\$	329,167.74	Total da	ys added due to Change Or	ders and CQN's	0
Net Change by previou	s Construction Quantity Notices	s:	-		Total days added for this	s Change Order	0
Amount of	this Construction Change Orde	·	133,155.22		New Contract Time to Fi	inal Completion:	0
	New Amended Contract Amoun	-	0,046,107.45		Estimated FINAL Comp	letion Due Date	Mar 2, 2022
	Change Order Percentage	): 	2.36%				
CONTRACTOR NAME:	Venegas Engineering N	lanagement and Co	nstruction, I	nc.			
PLEASE PROVIDE A DETAILED S	COPE OF WORK OF THE	CHANGE ORDER (	(SEE BACK I	FOR REASON/JUSTIFIC	ATION):		
INCREASE the quantity on the follo BB1-141 ELP-19-2 SERVICE BB1-152 ELP-20-1 TRAFFIC BB2-204 ELP-19-2 SERVICE BB2-206 ELP-20-1 TRAFFIC BB2-207 ELP-25-1 (PVC) (SC BB2-209 ELP-25-3 (PVC) (SC BB2-210 ELP-25-4 (PVC) (BC BB2-214 ELP-26-2 LENGTH BB2-217 ELP-26-5 LENGTH BB2-218 ELP-26-6 LENGTH Therefore, a total amount of \$80,219	POINT - CUSTOM (OVER RELATED GROUND BOD POINT - CUSTOM (OVER RELATED GROUND BOD CHD 40) (2") by 111-LF at CHD 40) (3") by 610-LF at DRE) (SCHD 40) (3") by 1 OF #3/0 AWG CABLE by OF #4 AWG CABLE by 3 OF #8 AWG CABLE by 4	RHEAD) by 1-EA at the current unit price to the current unit price to the current contract to the current to the current to 400-LF at the current	STYLE 24x12 the current uni STYLE 24x12 of \$17.82/LF. unit price of \$1 unit price of \$1 unit price of \$1 unit price of \$2 unit price of \$2 unit price of \$3 unit price of \$3	2x12 by 4-EA at the curre it price of \$15,833.12/EA. 2x12 by 2-EA at the curre 19.35/LF. 32.57/LF. \$11.76/LF. 4.04/LF.	nt contract unit price of		
DECREASE the quantity on the follo BB1-140 ELP-19-1 SVC. POI BB1-142 ELP-25-1 (PVC) (SC BB1-143 ELP-25-2 (PVC) (BC BB1-146 ELP-26-3 LENGTH BB1-147 ELP-26-6 LENGTH BB2-203 ELP-19-1 SVC. POI BB2-208 ELP-25-2 (PVC) (BC BB2-215 ELP-26-3 LENGTH Therefore, a total amount of (\$81,37	NT ELECT. METER & PO CHD 40) (2") by 318-LF at DRE) (SCHD 40) (2") by 2 OF #1 AWG CABLE by 2 OF #8 AWG CABLE by 9 NT ELECT. METER & PO DRE) (SCHD 40) (2") by 2 OF #1 AWG CABLE by 7	the current contract to the current of the current	unit price of \$ contract unit p nt contract unit p contract unit p y 3-EA at the c contract unit p contract unit p	17.82/LF. rice of \$28.51/LF. price of \$6.92/LF. rice of \$3.10/LF. current contract unit price rice of \$28.51/LF.			
The new change item totals an am	nount of \$133,155.22.						
- Time: The critical path is not affe	cted by this change; theref	ore, no additional tim	ie was justifie	d/granted.			
Work described above shall be performed this Change Order addresses all con-						ct. Unless spec	cifically noted,
- SUMMARY: INCREASE contract amount NO CHANGE in contract time							
STANDAR	D WORKWEEK DAYS ADDED	TO COMPLETION TIME	E: 0	тот.	AL CHANGE ORDER AMOU	JNT: \$	133,155.22
CONTRACTOR							
ı		o.f					ent the terms and
		, 01				agree and acc	ept the terms and
conditions	of this change order.						
Signature:					Date:		
CITY OF EL PASO (OW	(NER)						
I, Sam Ro	odriguez, P.E. of the C in this fo		authorize and	d direct the Contractor to p	proceed with additional v	work as describ	ped
Sign-turn					Dete		
Signature:	muss DE City Francis				Date:		
Sam Rodri	guez, P.E., City Engineer						

## CITY OF EL PASO CONSTRUCTION CHANGE ORDER - Pg. 3

CONSTRUCTION CH	ANGE ORDER NO.: 13	DATE:	Decembe		X SCOPE CHANGE			
PROJECT:	Montana RTS Imp	provements	SOLICIT		J 0374-02-089 itation 2018-836 X CON	STRUCTION CHANGE		
Project Number	PCP 11MT050		Project Number	PCP 11MT050	PURCHASE ORDER	2000000322		
Class	28330		Class	28330				
Department	190		Department	190				
Fund _ Account	4530, 4743, 4950, 4746 580270		Account	4530, 4743, 4950, 4746 580270	-			
Account	300210		Account	300270	_			
CONTRACTOR NAME:	Venegas Engineering Ma	anagement and Cons	truction, Inc.					
PROVIDE REASON/JUSTIFICA	ATION FOR CHANGE ORDER:							
Copia IB/OB, Station 02 Hucklet	the coordination with El Paso Ele berry IB/OB, Station 03 Geronim It, additional wiring with an increa- vice loads.	o OB, Station 08 McRa	ae OB, Station 09 Lor	ne OB, Station 11 IB/	OB, Station 12 Saul Kleinfe	eld IB/OB and Station		
Costs related to new items on	this change order were review	wed, validated and a	oproved by CID.					
Costs related to increase and	decrease of quantities were b	ased on current bid i	tems and were foun	d to be reasonable.				
No additional time was require	ed or granted with this change	e.						
Work at these stations did not	t affect the critical path and wa	as adjusted to fit in t	ne project schedule.					
THIS CHANGED, CLASSIFIED	AS OTHER CONDITION, WAS	REQUESTED AND A	APPROVED BY CID.					
REFER TO ATTACHMENTS F	FOR ADDITIONAL BACKUP DO	CUMENTATION.						
STAN	DARD WORKWEEK DAYS ADDED T	O COMPLETION TIME:	0	TOTAL CHA	NGE ORDER AMOUNT:	133,155.22		
	Project Manager rec	ommends approval:		Alex	Avila ect Manager			
	-	_						
F	ingineering Division Manager red	commends approval.	$\gamma_{\ell}$	largaret 1	KSchroeder			
_					Division Manager			
	<b></b>							
	Financing D	epartment approval: _ (if Required)						
		17						

## REQUEST FOR PO INCREASE/DECREASE FOR CHANGE ORDER

CONSTRUCTION C	NAMES OFFER NO .	42	DATE	Dagamik	42 0	2004		ı	v	
	CHANGE ORDER NO.:	13	DATE:	Decemb			CSJ 0374	-02-089	X INCREASE	
PROJECT:	Montana R	TS Improvements		SOLIC	IIAIIO	N NO.	olicitation		DECREASE	
Business North	DOD 44NTOFO									
Project Number Class			DUDCU	ASE ORDER #		2000	000322			
Department			PURCH	ASE UNDER #		2000	000322			
Fund										
Account										
Account	000272									
CONTRACTOR NAME:	Venegas Engineer	ing Managamant	and Construe	tion Inc						
CONTRACTOR NAME:	venegas Engineer	ing management	and Constitut	tion, inc.	_					
AS A	RESULT OF THIS CHANG	GE ORDER, PLEA	SE MAKE THE	E FOLLOWING	ADJUS	STMENT TO	THE PU	RCHASE O	RDER:	
LINE	ADDED AMOU	UNT								
Line 8	\$	9,645.85				TOTAL NE	T CHANG ASE ORD			
line 9	\$	38,583.40								
line 10	\$	84,925.97			\$		13	3,155.22		
						(sho	uld match	n cost below	v)	
						,			,	
							Additi	onal funding	g/direction:	
				Line 8						
				Account	Dept	Fund Divisio	n Program	Project	Grant	Amount
				580272	190	4746 38290		PCP11MT050		\$ 9,645.85
				Lt o						
		•		Line 9 Account	Dept	Fund Divisio	n Program	Project	Grant	Amount
				580272	190	3210 38290	<del></del>	PCP11MT050		\$ 38,583.40
						,			'	,
				Line 10						
				Account	Dept		n Program	Project	Grant	Amount
				580272	190	4950 38290		PCPMT050		\$ 84,925.97
					1	TOTAL CHANG	SE ORDER	AMOUNT:	\$	133,155.22
	Project Manag	ger recommends a	pproval·			Al	<i>ex AVI</i> oject Ma	ila		
		,				Pr	oject Ma	nager		
					7.1		. //		1	
	Engineering Division Mana	ger recommends a	approval:		M	argar	et K	OCKR	oeder er	
						⊯ngineer	ıng Divis	ion Manag	er	
	=-	adia a Demonstra								
	Finar	ncing Department a (if R	approval: Required)							

# Attachment 1, 20 S-2 Documenting Change Order Cost Reasonableness, Sample Summary, Page 1

**Contract Change Order Documentation Summary and Determination of Cost Reasonableness: Contract Name:** Montana RTS Improvements Solicitation / Project Number: CSJ 0374-02-089 / Solicitation No. 2018-836 Change Order Number: CO #13 - Item 013.01 Prepared By: ECM International, Inc. RFP: In response to an (Select one and entry number and date) RFP number RFP#010 or Field Directive **number** \_\_\_\_\_ dated June 25, 2021 (Attach Copy). Or In response to (describe the situation that resulted in the unsolicited proposal) and unsolicited proposal was provided . (RFP #010 entailed new items of work not in the contract **ONLY**.) **Initial Cost Estimate:** Check all that apply: No initial estimate of the change order costs was attempted. (Attach Justification countersigned by assigned DM). \_\_\_\_\_ A ROM Estimate in the amount of \$ \_\_\_\_\_ was prepared on \_\_\_\_\_ attach copy X A Detailed Estimate in the amount of \$27,002.45 was prepared on September 1, 2021 attach copy. (For new contract items only and based on the original takeoff from RFI #110 Electrical Services Issue). The Design Consultant provided a detailed estimate in the amount of \$ \_\_\_\_\_ was prepared on \_\_\_\_\_ attach copy. **Contractors Proposal:** The contractor provided a proposal Dated August 16, 2021 (attach copy) in the amount of \$31,656.69 and requesting O Calendar/Working days. (For new contract items only and based on the original takeoff from RFI #110 Electrical Services Issue, the proposal did not include quantity changes). The proposal was reviewed as to the required Scope of work and found to accurately reflect the Scope of Work **Yes X No** . If No, a formal revision was requested on this date (attach Copy(s) of request) and received date \_\_\_\_\_, in the amount of \_\_\_\_\_ and requesting \_ Calendar/Working days Or Check if applicable \_\_\_\_\_ after review with assigned DM the city elected to proceed with negotiations and address the scope inconsistencies in Negotiations without a proposal revision (list inconsistencies to be addressed in negotiations). Unit pricing for new items was approved, however, final take-off on new items and existing items resulted in an increase in the final change order amount.

Attach continuation sheet if necessary

Attachment 1, 20 S-2 Documenting Change Order Cost Reasonableness, Sample Summary, Page 2

Cost evaluation: Cost reasonableness was determined using the following methods check all that apply.

X	Utilizing existing Bid Item
Χ	_ Price Analysis
	Cost Analysis

(Provide narrative description for each method utilized and how reasonableness was determined) Attach mark up a proposal with negotiation objectives, including accepted cost, Dated and initialed by the Preparer and Assigned Division Manager. Label Marked UP Proposal:

Narrative description of determination of reasonableness: (Attach Continuation sheets as necessary, include detailed table showing Proposed/Objective /and Negotiated when appropriate. (Sample included)

#### Narrative:

Upon coordination with El Paso Electric Company (EPECo), electrical services to the Stations had to be relocated due to unforeseen conflicts not within the Owner's nor Contractor's control. In general, the conflicts were generated due to the unavailability to get a service connection from the service points originally identified on the plans. The new locations resulted to be farther away from the original locations, thus, requiring additional wiring, ground boxes, underground conduit, and bore crossings.

Due to the relocation of electrical services, an increase in wire gauge was necessary to account for the required service loads. A request for proposal, was issued requesting pricing on three (3) new wiring items not in the contract that included: #2 AWG, #2/0 AWG and #4/0 AWG cable. Quantities for these items were estimated based on the stations affected and originally identified under RFI #110 (Station 08 McRae OB, Station 09 Lorne OB, Station 12 Saul Kleinfeld OB, and Station 13 Tierra Este OB). Contractor's proposal totaled an amount of \$31,656.69 for new wiring items and identified stations under RFI #110.

The Contractor's proposal **DID NOT** include quantity changes on electrical conduit and bores resulting from the relocation of the electrical services as it was agreed to overrun the current contract items for such (summary on increase/decrease of quantities is presented on Work Change Directive #22).

An itemized opinion of construction cost based on RSMeans data and historic production rates for the **NEW ELECTRICAL CONDUCTOR** items was developed. Labor, equipment, and material costs were estimated based on observed and historic production and hourly rates. Equipment and materials rates were estimated via validated material quotes of suppliers from the local market. Applicable TxDOT markups were incorporated into each category and a total estimated construction cost of **\$27,002.45** was calculated.

CID concurred and approved the proposed unit pricing on the new wiring items. No additional time was granted as the electrical work remains concurrent with other work activities in the project.

In summary, the NEW items added to the contract and validated are:

- BB1 159 ELPO CO#13.01A LENGTH OF #2 AWG CABLE
- BB1 161 ELPO CO#13.01C LENGTH OF #2/0 AWG CABLE
- BB1 163 ELPO CO#13.01E LENGTH OF #4/0 AWG CABLE
- BB2 240 ELPO CO#13.01H LENGTH OF #4/0 AWG CABLE

However, after further coordination with EPECo and the Contractor, additional Stations were identified requiring adjustments to the electrical services including Station 01 Copia IB/OB, Station 02 Huckleberry IB/OB, Station 03 Geronimo OB, Station 11 George Dieter IB/OB, Station 12 Saul Kleinfeld IB, and Tierra Este IB. These changes generated an increase/decrease of existing bid item quantities and an increase/decrease of new wiring items as well. A detailed breakdown of the quantity change per station is found on the Work Change Directive #22.

As part of the change order, existing items of work are being added to Base Bid 1 and Base Bid 2, respectively. Items will be incorporated into Base Bid 1 and Base Bid 2 at the current contract unit pricing, respectively. These changes are required to compensate the contractor for the additional scope of work resulting from the electrical changes under the respective Base Bid. Contractor agreed to maintain contract unit pricing. These changes include:

#### **ADDED** existing bid items to Base Bid 2 from Base Bid 1:

- BB1 160 ELP-26-5 CO#13.01B LENGTH OF #4 AWG CABLE
- BB1 162 ELP-26-2 CO#13.01D LENGTH OF #3/0 AWG CABLE
- BB1 164 ELP-25-3 CO#13.01F (PVC)(SCHD 40)(3")
- BB1 165 ELP-25-4 CO#13.01G (PVC)(BORE)(SCHD 40)(3")

#### **ADDED** existing bid items to Base Bid 1 from Base Bid 2:

BB2 - 241 ELP-19-1 CO#13.01I SVC. POINT ELECT. METER & POLE (OVERHEAD)

Lastly and as previously mentioned, the additional scope of work warranted an increase and decrease of existing contract items as follow:

#### **INCREASE** of quantities in the following EXISTING items:

- BB1-141 ELP-19-2 SERVICE POINT CUSTOM (OVERHEAD).
- BB1-152 ELP-20-1 TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12.
- BB2-204 ELP-19-2 SERVICE POINT CUSTOM (OVERHEAD).
- BB2-206 ELP-20-1 TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12.
- BB2-207 ELP-25-1 (PVC) (SCHD 40) (2").
- BB2-209 ELP-25-3 (PVC) (SCHD 40) (3").
- BB2-210 ELP-25-4 (PVC) (BORE) (SCHD 40) (3").
- BB2-214 ELP-26-2 LENGTH OF #3/0 AWG CABLE.
- BB2-217 ELP-26-5 LENGTH OF #4 AWG CABLE.
- BB2-218 ELP-26-6 LENGTH OF #8 AWG CABLE.

#### **DECREASE** of quantities in the following CURRENT items:

- BB1-140 ELP-19-1 SVC. POINT ELECT. METER & POLE (OVERHEAD).
- BB1-142 ELP-25-1 (PVC) (SCHD 40) (2").
- BB1-143 ELP-25-2 (PVC) (BORE) (SCHD 40) (2").
- BB1-146 ELP-26-3 LENGTH OF #1 AWG CABLE.
- BB1-147 ELP-26-6 LENGTH OF #8 AWG CABLE.
- BB2-203 ELP-19-1 SVC. POINT ELECT. METER & POLE (OVERHEAD).
- BB2-208 ELP-25-2 (PVC) (BORE) (SCHD 40) (2").
- BB2-215 ELP-26-3 LENGTH OF #1 AWG CABLE.

In summary, the Contractor's original proposal of \$31,656.69 did not reflect all the Stations requiring relocation and did not include changes to the contract quantities. Based on the final take-off for all affected stations and for total wiring, conduit and bore crossings required, the Change Order totaled an amount of \$133,155.22.

Work Change Directive #22 was issued to the Contractor that encompassed the additional scope of work related to the changes in Electrical Services with new items of work, increase of quantities, and decrease of quantities, respectively.

REFER TO THE BACKUP DOCUMENTATION.



**MAYOR** 

Oscar Leeser

**CITY COUNCIL** 

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**District 7** 

Henry Rivera

**District 8** 

Cissy Lizarraga

**CITY MANAGER** 

Tommy Gonzalez

Work Change Directive No. 22

December 16, 2021

Venegas Engineering Management and Construction/VEMAC

Attn: Mr. Robert Martinez

Vice-President and Operations Manager

1919 E. Rio Grande Street

El Paso, Texas 79902

Subject: Montana RTS Improvements

Solicitation No. 2018-836 TxDOT CSJ No. 0374-02-089

Changes in the Electrical Service

Dear Mr. Martinez,

Please consider this letter as your field change directive to proceed with the additional scope of work related to the relocated electrical services at Station 01 Copia IB/OB, Station 02 Huckleberry IB/OB, Station 03 Geronimo OB, Station 08 McRae OB, Station 09 Lorne OB, Station 11 IB/OB, Station 12 Saul Kleinfeld IB/OB and Station 13 Tierra Este IB/OB and in reference to Request for Information, *RFI* #110.

## Scope of Work:

The additional scope of work includes furnishing additional wiring, additional conduit, additional ground boxes and modified electrical services in conformance to Items *ELP 19 Electrical Services*, *ELP 20 Ground Boxes*, *ELP 25 Electrical Conduit and ELP 26 Electrical Conductors*.

## Purpose of Work Change Directive:

The purpose of this directive is to expedite the work described above and complete the electrical services work at the subject locations. The additional scope of work was requested and approved by the Capital Improvement Department (CID).

Yvette Hernandez, P.E. – Grant Funded Program Director Capital Improvement Dept., 218 N. Campbell, El Paso, TX 79901





#### **MAYOR**

Oscar Leeser

#### **CITY COUNCIL**

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Henry Rivera

District 8

Cissy Lizarraga

**CITY MANAGER** 

Tommy Gonzalez

## **Summarized Change in Drawings:**

Sheets 296, 303, 304, 311, 354, 366, 367, 379, 380, 389, 390, 398 and 399 remain unchanged. Contractor will incorporate the changes in the as-built drawings.

## Summarized Change in Specifications:

Item ELP 19 Electrical Services, ELP 20 Ground Boxes, ELP 25 Electrical Conduit and ELP 26 Electrical Conductors remain unchanged.

## **Estimated Change in Contract Amount:**

The additional scope of work will be compensated as follows:

#### NEW Items to the Contract:

- BB1 159 ELP0 CO#13.01A LENGTH OF #2 AWG CABLE with an estimated quantity of 580-LF and at a negotiated unit price of \$6.24/LF, therefore, \$3,619.20.
- BB1 160 ELP-26-5 CO#13.01B LENGTH OF #4 AWG CABLE with an estimated quantity of 1,285-LF and at a current contract unit price of \$4.04/LF, therefore, \$5,191.40.
- BB1 161 ELP0 CO#13.01C LENGTH OF #2/0 AWG CABLE with an estimated quantity of 1,110-LF and at a negotiated unit price of \$8.90/LF, therefore, \$9,879.00.
- BB1 162 ELP-26-2 CO#13.01D LENGTH OF #3/0 AWG CABLE with an estimated quantity of 2,745-LF and at a current contract unit price of \$11.76/LF, therefore, \$32,281.20.
- BB1 163 ELP0 CO#13.01E LENGTH OF #4/0 AWG CABLE with an estimated quantity of 1,740-LF and at a negotiated unit price of \$10.48/LF, therefore, \$18,235.20.
- BB1 164 ELP-25-3 CO#13.01F (PVC)(SCHD 40)(3") with an estimated quantity of 1,150-LF and at a negotiated unit price of \$19.35/LF, therefore,
   \$22,252.50.
- BB1 165 ELP-25-4 CO#13.01G (PVC)(BORE)(SCHD 40)(3") with an estimated quantity of 345-LF and at a negotiated unit price of \$32.57/LF, therefore,
   \$11,236.65.
- BB2 240 ELP0 CO#13.01H LENGTH OF #4/0 AWG CABLE with an estimated quantity of 2,055-LF at a negotiated unit price of \$10.48/LF, therefore,
   \$21,536.40.
- BB2 241 ELP-19-1 CO#13.01I SVC. POINT ELECT. METER & POLE (OVERHEAD) with an estimated quantity of 1-EA at a current contract unit price of \$10,077.94/EA, therefore,
   \$10,077.94.

## INCREASE of quantities in contract items:

- BB1-141 ELP-19-2 SERVICE POINT CUSTOM (OVERHEAD) by 1-EA at the current contract unit price of \$15,833.12/EA, therefore, \$15,833.12.
- BB1-152 ELP-20-1 TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24 x
   12 x12 by 4-EA at the current contract unit price of \$2,597.11/EA, therefore, \$10,388.44.
- BB2-204 ELP-19-2 SERVICE POINT CUSTOM (OVERHEAD) by 1-EA at the current unit price of \$15,833.12/EA, therefore,
   \$15,833.12.
- BB2-206 ELP-20-1 TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12 by 2-EA at the current unit price of \$2,597.11/EA, therefore, \$5,194.22.

Yvette Hernandez, P.E. – Grant Funded Program Director

Capital Improvement Dept., 218 N. Campbell, El Paso, TX 79901





#### **MAYOR**

Oscar Leeser

### **CITY COUNCIL**

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#### **District 7**

Henry Rivera

#### District 8

Cissy Lizarraga

#### **CITY MANAGER**

Tommy Gonzalez

- BB2-207 ELP-25-1 (PVC) (SCHD 40) (2") by 111-LF at the current unit price of \$17.82/LF, therefore,
   \$1,978.02.
- BB2-209 ELP-25-3 (PVC) (SCHD 40) (3") by 610-LF at the current contract unit price of \$19.35/LF, therefore,
   \$11,803.50.
- BB2-210 ELP-25-4 (PVC) (BORE) (SCHD 40) (3") by 160-LF at the current unit price of \$32.57/LF, therefore,
   \$5,211.20.
- BB2-214 ELP-26-2 LENGTH OF #3/0 AWG CABLE by 960-LF at the current unit price of \$11.76/LF, therefore,
   \$11,289.60.
- BB2-217 ELP-26-5 LENGTH OF #4 AWG CABLE by 320-LF at the current unit price of \$4.04/LF, therefore,
   \$1,292.80.
- BB2-218 ELP-26-6 LENGTH OF #8 AWG CABLE by 450-LF at the current unit price of \$3.10/LF, therefore,
   \$1,395.00.

### **DECREASE** of quantities in contract items:

- BB1-140 ELP-19-1 SVC. POINT ELECT. METER & POLE (OVERHEAD) by 1-EA at the current contract unit price of \$10,077.94/EA, therefore, (\$10,077.94).
- BB1-142 ELP-25-1 (PVC) (SCHD 40) (2") by 318-LF at the current contract unit price of \$17.82/LF, therefore, (\$5,666.76).
- BB1-143 ELP-25-2 (PVC) (BORE) (SCHD 40) (2") by 230-LF at the current contract unit price of \$28.51/LF, therefore, (\$6,557.30).
- BB1-146 ELP-26-3 LENGTH OF #1 AWG CABLE by 2,727-LF at the current contract unit price of \$6.92/LF, therefore, (\$18,870.84).
- BB1-147 ELP-26-6 LENGTH OF #8 AWG CABLE by 909-LF at the current contract unit price of \$3.10/LF, therefore, (\$2,817.90).
- BB2-203 ELP-19-1 SVC. POINT ELECT. METER & POLE (OVERHEAD) by 3-EA at the current contract unit price of \$8,810.44/EA, therefore, (\$26,431.32).
- BB2-208 ELP-25-2 (PVC) (BORE) (SCHD 40) (2") by 213-LF at the current contract unit price of \$28.51/LF, therefore, (\$6,072.63).
- BB2-215 ELP-26-3 LENGTH OF #1 AWG CABLE by 705-LF at the current contract unit price of \$6.92/LF, therefore,
   (\$4,878.60).

**Quantities are estimated.** Quantities will be field measured, quantified and paid accordingly. The increase in the contract amount is estimated to be \$133,155.22.

## **Estimated Increase in Contract Time:**

Upon presentation by the Contractor, the impact to the critical path will be evaluated for the possibility of granting additional contract time. **No additional** time is being contemplated for the additional scope of work as it remains concurrent with other on-going work activities.

This is not a Change Order, but only a field directive to proceed with the changes summarized above. The Contract Sum and Contract Time may only be changed by an Executed Contract Change Order.

Yvette Hernandez, P.E. – Grant Funded Program Director Capital Improvement Dept., 218 N. Campbell, El Paso, TX 79901





**MAYOR** 

Oscar Leeser

**CITY COUNCIL** 

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Henry Rivera

**District 8** 

Cissy Lizarraga

**CITY MANAGER** 

Tommy Gonzalez

If you have any questions or comments, please don't hesitate to contact Alex Superintendent, Construction (915)478-3789 at AvilaAX@elpasotexas.gov.

Sincerely,

Grette Hernandez Ývette Hernandez, Ř.E.

CID Grant Funded Programs Director

Attachments: Refer to RFI #110 Electrical Services

Redlined Drawings with Detailed Scope of Work

Ismael Cepeda, P.E. Cc: Margaret Schroeder, P.E.

> Victoria Villareal Project File

Alex Avila

Yvette Hernandez, P.E. – Grant Funded Program Director Capital Improvement Dept., 218 N. Campbell, El Paso, TX 79901







#### **ECM International** 404 Executive Center Boulevard El Paso, Texas 79902 P: (915) 351-1900 F: (915) 351-1908

Project: 0374-02-089 Montana RTS Improvements Montana Avenue

El Paso, Texas 79925

## RFI #110: Electrical Services Issue

Status Closed on 06/29/21

Tο Jose Reyes (Dannenbaum Engineering

Corporation, LLC.)

Silverio Villalobos (Dannenbaum Engineering

Corporation, LLC.)

Rene Gonzalez (Venegas Engineering From

Management and Construction)

1919 Rio Grande Street

El Paso, 79902

**Date Initiated** Apr 21, 2021 **Due Date** May 5, 2021

Location Project Stage Course of Construction

Cost Impact Yes (Unknown) Schedule Impact Yes (Unknown)

ELP 19 - Electrical Services **Cost Code Spec Section** 

Reference **Drawing Number** 

**Linked Drawings** 303, 354, 366, 367, 398, 399

Rene Gonzalez (Venegas Engineering Received From

Management and Construction)

Alex Avila (City of El Paso - Capital Improvement Department), Obed Cano (City of El Paso - Capital Improvement Department), **Copies To** 

Ismael Cepeda (City of El Paso - Capital Improvement Department), Gerardo Garcia (ECM International, Inc.), Rene Gonzalez (Venegas Engineering Management and Construction), Robert Martinez (Venegas Engineering Management and Construction), Eduardo Nunez (ECM International, Inc.), Alex Pedroza (City of El Paso - Capital Improvement Department), Jose Reyes (Dannenbaum Engineering Corporation, LLC.), Abel Salazar (Venegas Engineering Management and Construction), Daniel Urrutia (Venegas Engineering Management and Construction), Silverio Villalobos (Dannenbaum Engineering Corporation, LLC.),

Victoria Villarreal (City of El Paso - Capital Improvement Department)

#### Activity

#### Question

Question from Rene Gonzalez Venegas Engineering Management and Construction on Tuesday, Apr 20, 2021 at 05:44 PM MDT

As mentioned previously, please advise how to proceed with several stations (McRae, Huckleberry, Tierra Este, and Lorne) that the electrical service is too far away.

Thank you, RG

#### Official Response

Response from Gerardo Garcia ECM International, Inc. on Tuesday, Jun 29, 2021 at 09:01 AM MDT

CID is in agreement in using the 3" conduit in lieu of the 2" conduit. Compensation for the 3" conduit will be done under the current contract item BB2-209 ELP-25-3 (PVC)(SCHD 40)(3"). Item for 3" conduit will be added to Base Bid 1 via a change order.

#### Official Response

Response from Rene Gonzalez Venegas Engineering Management and Construction on Wednesday, Jun 16, 2021 at 02:30 PM MDT

Below are comments from subcontractor:

- · A 3" conduit is recommended versus the 2" conduit stated by the EOR as it better serves the install/pulling of the conductors for those distances and for example, it's what's called-out to install per plans on Mettler/Hawkins & Sunmount/Hawkins corridors, therefore, we would be following suit per contract.
- · How will the conductors be paid as they are not listed as payable items in the contract?

Please provide clarification, thank you.

RG

#### Official Response

Response from Gerardo Garcia ECM International, Inc. on Wednesday, Jun 16, 2021 at 01:56 PM MDT

In summary, the proposed increase in quantities is as follows:

ELP-25-1 (PVC)(SCHD 40) (2")
 ELP-26-5 LENGHT OF #4 AWG CABLE
 1,865 LF
 1,285 LF

• ELP-XX LENGHT OF #2/0 AWG CABLE 1,110 LF (No bid item, a proposal will be issued to get pricing on)

• ELP-26-2 LENGHT OF #3/0 AWG CABLE **2,745 LF** 

• ELP-XX LENGHT OF #4/0 AWG CABLE 1,740 LF (No bid item, a proposal will be issued to get pricing on).

Let me know if questions. Thanks.

#### Official Response

Response from Silverio Villalobos Dannenbaum Engineering Corporation, LLC. on Monday, Jun 7, 2021 at 04:38 PM

Attached response from the EOR

#### **Attachments**

0374-02-089-Montana RTS-110-ELC Services Response.pdf







**FCM** International 404 Executive Center Boulevard El Paso, Texas 79902

Phone: (915) 351-1900 Fax: (915) 351-1908

Project: 0374-02-089 - Montana RTS Improvements Montana Avenue El Paso, Texas 79925

Rene Gonzalez (Venegas Engineering

Management and )

El Paso, 79902

Open

SCHEDULE IMPACT: Yes (Unknown)

05/05/2021

1919 Rio Grande Street

ELP 19 - Electrical Services

## **Electrical Services Issue**

FROM:

STATUS:

**DUE DATE:** 

COST CODE:

REFERENCE:

SPEC SECTION:

TO: Silverio Villalobos (Dannenbaum Engineering

Corporation, LLC.)

Jose Reyes (Dannenbaum Engineering

Corporation, LLC.)

DATE INITIATED: 04/21/2021

PROJECT STAGE: Course of Construction

COST IMPACT:

**DRAWING NUMBER:** 

LINKED DRAWINGS: RECEIVED FROM:

Yes (Unknown)

Rene Gonzalez (Venegas Engineering Management and Cons)

**COPIES TO:** 

LOCATION:

Alex Avila (City of El Paso - Capital Improvement D), Obed Cano (City of El Paso - Capital Improvement D), Ismael Cepeda (City of El Paso -Capital Improvement D), Gerardo Garcia (ECM International Inc. - El Paso), Rene Gonzalez (Venegas Engineering Management and Cons), Robert Martinez (Venegas Engineering Management and Cons), Eduardo Nunez (ECM International Inc. - El Paso), Alex Pedroza (City of El Paso - Capital Improvement D), Jose Reyes (Dannenbaum Engineering Corporation, LLC), Abel Salazar (Venegas Engineering Management and Cons), Daniel Urrutia (Venegas Engineering Management and Cons), Silverio Villalobos (Dannenbaum Engineering Corporation, LLC), Victoria Villarreal (City of El Paso - Capital Improvement D)

## Question from Rene Gonzalez (Venegas Engineering Management and Con) at 05:44 PM on 04/20/2021

As mentioned previously, please advise how to proceed with several stations (McRae, Huckleberry, Tierra Este, and Lorne) that the electrical service is too far away.

Thank you,

RG

Awaiting an Official Response

#### All Replies:

#### Atkins Response:

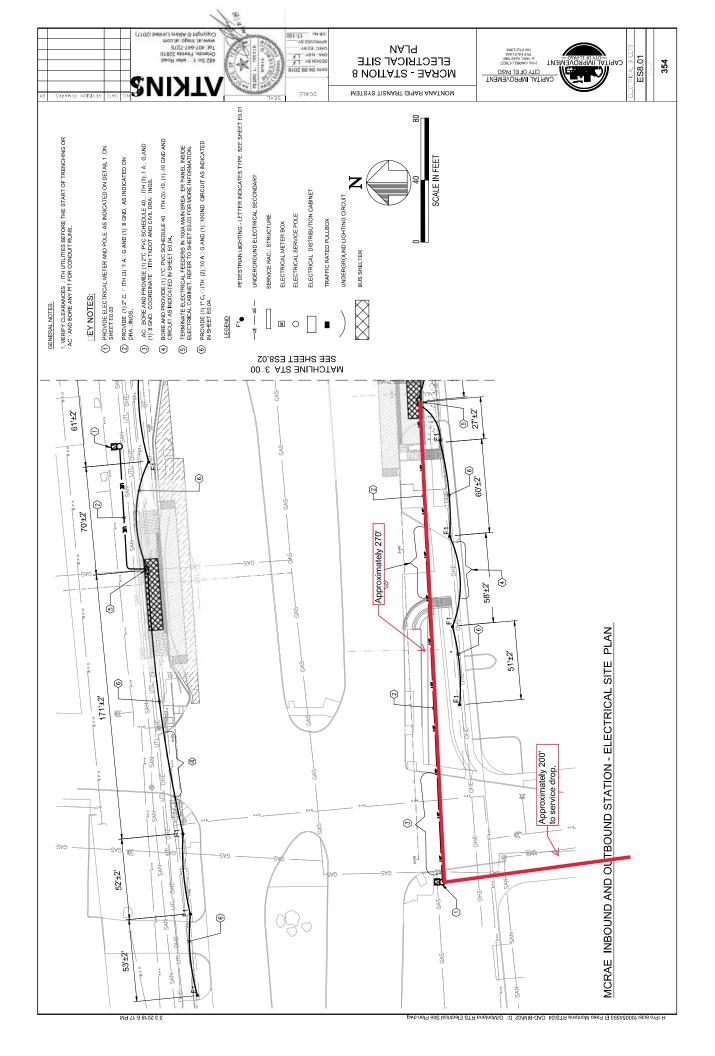
drop

Voltage drop calculations were conducted assuming 80 amp electrical service (80% of the 100-amp Main Circuit Breaker per NEC). Per NEC Articles 210.19(A) and 215.2(A), the recommended maximum voltage drop for the branch circuit and feeder is 5 percent. The present 3#1 feeder size is not adequate and would provide a voltage drop percentage that exceeds the NEC recommended percentage.

Based on the revised distances indicated for the meter location, the service feeder size needs to be increased. The following are the recommendations:

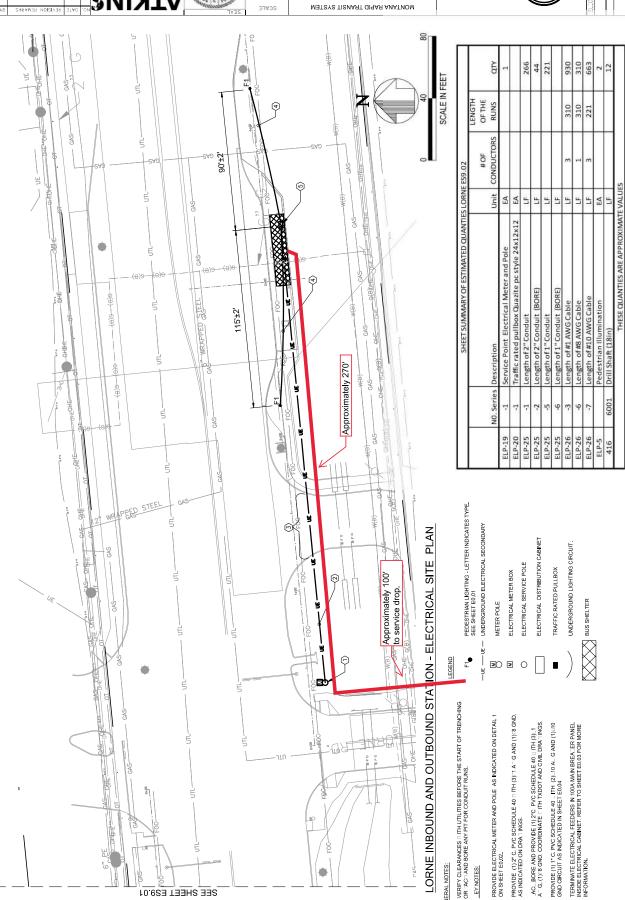
- McRae Station (470 feet from pole to station panel) use 3#3/0 and 1#4 ground in 2-inch conduit for a 2.9% voltage
- Lorne Station (370 feet from pole to station panel) use 3#2/0 and 1#4 ground in 2-inch conduit for a 2.7% voltage drop
- Saul Station (580 feet from pole to station panel) use 3#4/0 and 1#2 ground in 2-inch conduit for a 3.1% voltage drop Tierra Este Station (445 feet from pole to station panel) - use 3#3/0 and 1#4 ground in 2-inch conduit for a 2.8% voltage

6/7/2021		
	6/7/2021	6/7/2021



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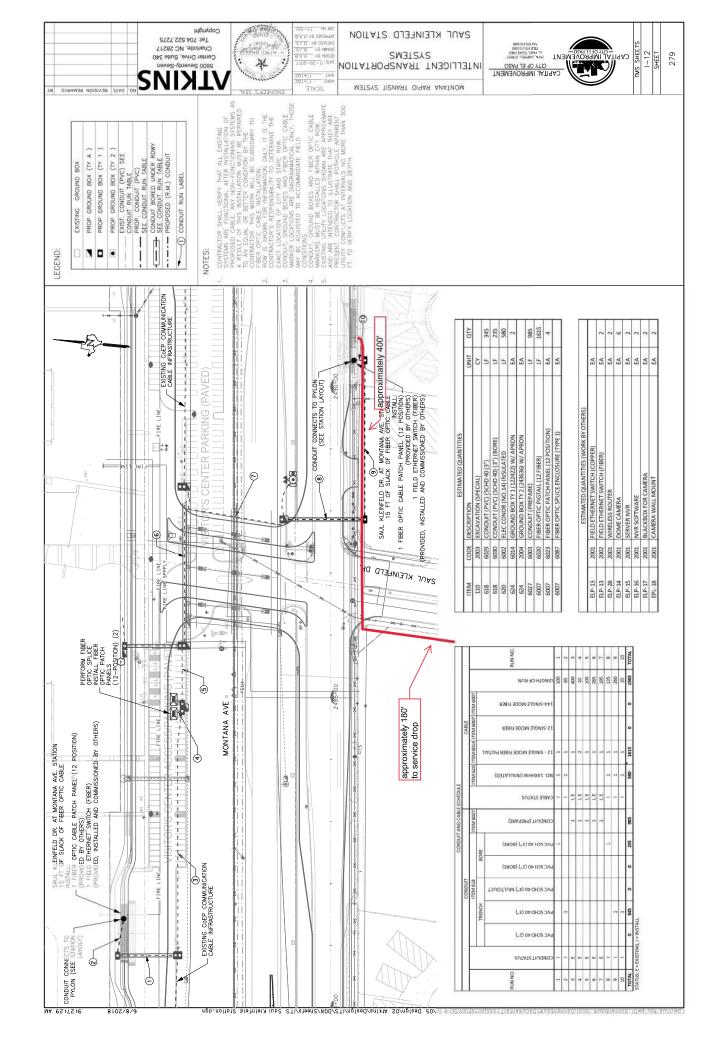
367

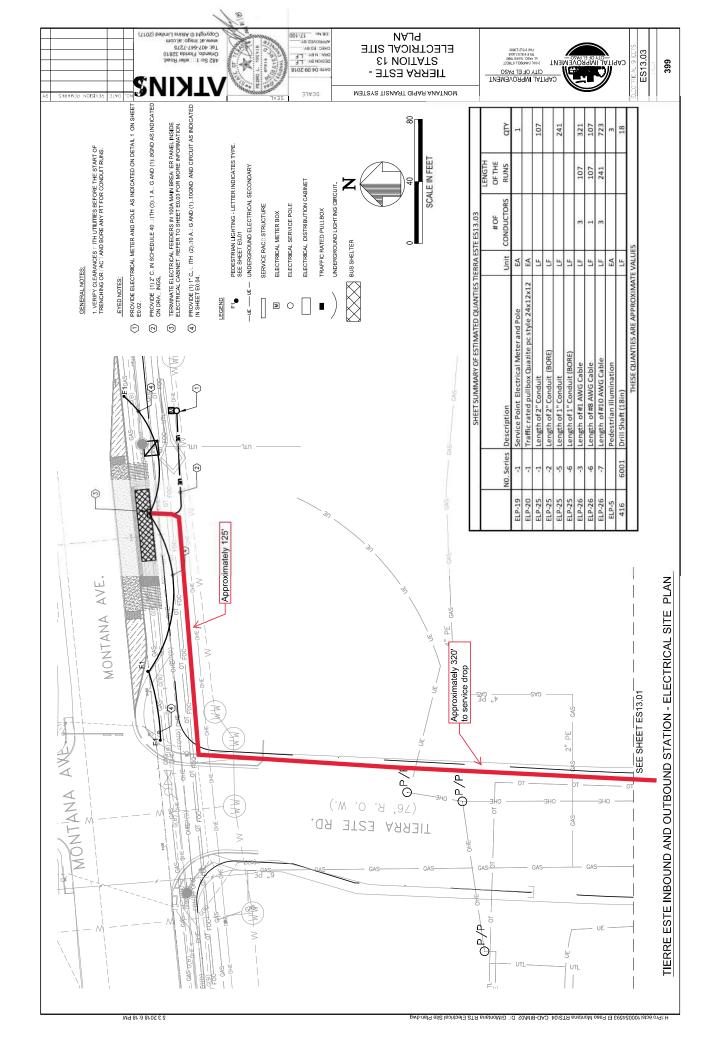


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## SUMMARY OF COST FOR CHANGES IN ELECTRICAL SERVICES

## **STATION 01 COPIA IB/OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB2-206	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$	2,597.11
BB2-209	ELP-25-3	(PVC) (SCHD 40) (3")	19.350	LF	320.00	\$	6,192.00
BB2-214	ELP-26-2	LENGTH OF #3/0 AWG CABLE	11.760	LF	960.00	\$	11,289.60
BB2-217	ELP-26-5	LENGTH OF #4 AWG CABLE	4.040	LF	320.00	\$	1,292.80
					Increase Subotal	\$	21,371.51
	ESTIMATED CONTRACT CHANGE						

## **STATION 02 HUCKLEBERRY IB/OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY	EXT. AMOUNT
BB2-204	ELP-19-2	SERVICE POINT - CUSTOM (OVERHEAD)	15,833.12	EA	1.00	\$ 15,833.12
BB2-209	ELP-25-3	(PVC) (SCHD 40) (3")	19.350	LF	290.00	\$ 5,611.50
BB2-210	ELP-25-4	(PVC) (BORE) (SCHD 40) (3")	32.570	LF	160.00	\$ 5,211.20
BB2-206	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$ 2,597.11
BB2-218	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	685.00	\$ 2,123.50
BB2-240	CO#13.01H	LENGTH OF #4/0 AWG CABLE	10.480	LF	2,055.00	\$ 21,536.40
					Increase Subotal	\$ 52,912.83
BB2-203	ELP-19-1	SVC. POINT ELECT. METER & POLE (OVERHEAD)	8,810.44	EA	(2.00)	\$ (17,620.88)
BB2-215	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(627.00)	\$ (4,338.84)
BB2-218	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(209.00)	\$ (647.90)
					Decrease Subtotal	\$ (22,607.62)
		ESTIMATED CONTRACT CHA	NGE			\$ 30,305.21

## **STATION 03 GERONIMO OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT	
BB1-141	ELP-19-2	SERVICE POINT - CUSTOM (OVERHEAD)	15,833.12	EA	1.00	\$	15,833.12	
					Increase Subotal	\$	15,833.12	
BB1-140	ELP-19-1	SVC. POINT ELECT. METER & POLE (OVERHEAD)	10,077.94	EA	(1.00)	\$	(10,077.94)	
		(OVERTICAL)			Decrease Subtotal	\$	(10,077.94)	
	ESTIMATED CONTRACT CHANGE							







#### MONTANA RTS IMPROVEMENTS TXDOT CSJ No. 0374-02-089 SOLICITATION No. 2018-836

## **STATION 08 McRAE OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB1-152	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$	2,597.11
BB1-160	CO#13.01B	LENGTH OF #4 AWG CABLE	4.040	LF	470.00	\$	1,898.80
BB1-162	CO#13.01D	LENGTH OF #3/0 AWG CABLE	11.760	LF	1,410.00	\$	16,581.60
BB1-164	CO#13.01F	(PVC) (SCHD 40) (3")	19.350	LF	340.00	\$	6,579.00
BB1-165	CO#13.01G	(PVC) (BORE) (SCHD 40) (3")	32.570	LF	130.00	\$	4,234.10
					Increase Subotal	\$	31,890.61
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	(300.00)	\$	(5,346.00)
BB1-143	ELP-25-2	(PVC) (BORE) (SCHD 40) (2")	28.510	LF	(130.00)	\$	(3,706.30)
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(900.00)	\$	(6,228.00)
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(300.00)	\$	(930.00)
					Decrease Subtotal	\$	(16,210.30)
	ESTIMATED CONTRACT CHANGE						15,680.31

## **STATION 09 LORNE OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	105.00	\$	1,871.10
BB1-152	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$	2,597.11
BB1-160	CO#13.01B	LENGTH OF #4 AWG CABLE	4.040	LF	370.00	\$	1,494.80
BB1-161	CO#13.01C	LENGTH OF #2/0 AWG CABLE	8.900	LF	1,110.00	\$	9,879.00
					Increase Subotal	\$	15,842.01
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(930.00)	\$	(6,435.60)
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(310.00)	\$	(961.00)
					Decrease Subtotal	\$	(7,396.60)
	ESTIMATED CONTRACT CHANGE						8,445.41

## **STATION 11 GEORGE DIETER IB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	160.00	\$	2,851.20
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	480.00	\$	3,321.60
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	160.00	\$	496.00
					Increase Subotal	\$	6,668.80
BB1-143	ELP-25-2	(PVC) (BORE) (SCHD 40) (2")	28.510	LF	(100.00)	\$	(2,851.00)
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(528.00)	\$	(3,653.76)
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(176.00)	\$	(545.60)
					Decrease Subtotal	\$	(7,050.36)
	ESTIMATED CONTRACT CHANGE						(381.56)







## SOLICITATION No. 2018-836

TxDOT CSJ No. 0374-02-089

STATION 11 GEROGE DIETER OB							
LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB2-207	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	145.00	\$	2,583.90
BB2-215	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	435.00	\$	3,010.20
BB2-218	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	145.00	\$	449.50
					Increase Subotal	\$	6,043.60
BB2-207	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	(34.00)	\$	(605.88)
BB2-208	ELP-25-2	(PVC) (BORE) (SCHD 40) (2")	28.510	LF	(213.00)	\$	(6,072.63)
BB2-215	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(513.00)	\$	(3,549.96)
BB2-218	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(171.00)	\$	(530.10)
					Decrease Subtotal	\$	(10,758.57)
		ESTIMATED CONTRACT	CHANGE			Ś	(4 714 97)

## **STATION 12 SAUL KLEINFELD IB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT	
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	20.00	\$	356.40	
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	60.00	\$	415.20	
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	20.00	\$	62.00	
					Increase Subotal	\$	833.60	
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	(119.00)	\$	(2,120.58)	
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(357.00)	\$	(2,470.44)	
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(119.00)	\$	(368.90)	
					Decrease Subtotal	\$	(4,959.92)	
	ESTIMATED CONTRACT CHANGE					\$	(4,126.32)	

## **STATION 12 SAUL KLEINFELD OB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB1-152	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$	2,597.11
BB1-159	CO#13.01A	LENGTH OF #2 AWG CABLE	6.240	LF	580.00	\$	3,619.20
BB1-163	CO#13.01E	LENGTH OF #4/0 AWG CABLE	10.480	LF	1,740.00	\$	18,235.20
BB1-164	CO#13.01F	(PVC) (SCHD 40) (3")	19.350	LF	405.00	\$	7,836.75
BB1-165	CO#13.01G	(PVC) (BORE) (SCHD 40) (3")	32.570	LF	175.00	\$	5,699.75
					Increase Subotal	\$	37,988.01
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	(77.00)	\$	(1,372.14)
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(231.00)	\$	(1,598.52)
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(77.00)	\$	(238.70)
					Decrease Subtotal	\$	(3,209.36)
	ESTIMATED CONTRACT CHANGE						34,778.65





## CITY OF EL PASO – CAPITAL IMPROVEMENT DEPARTMENT MONTANA RTS IMPROVEMENTS TYPOT OS LNIC 0374 92 080

TxDOT CSJ No. 0374-02-089 SOLICITATION No. 2018-836

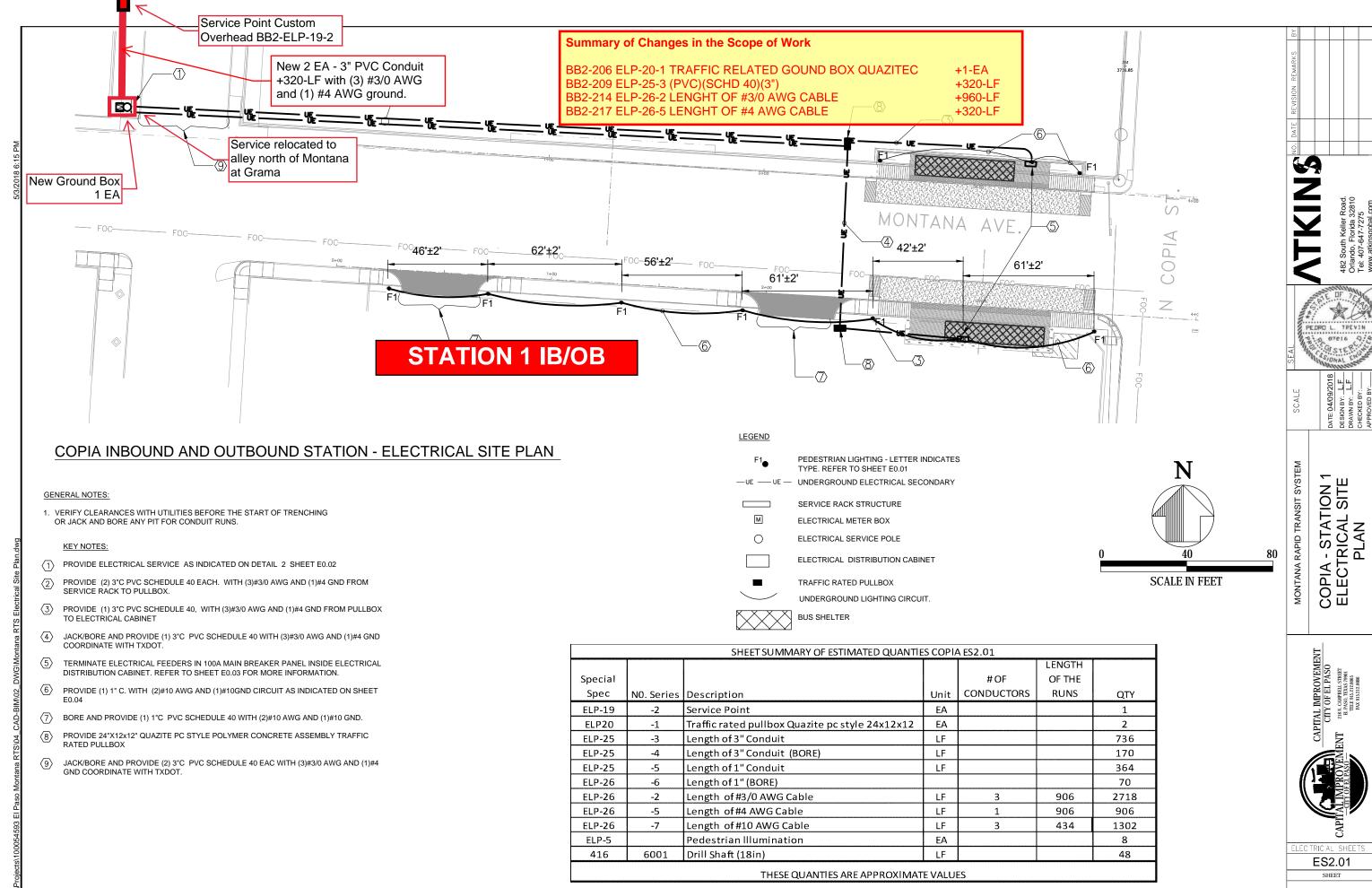
## **STATION 13 TIERRA ESTE OB**

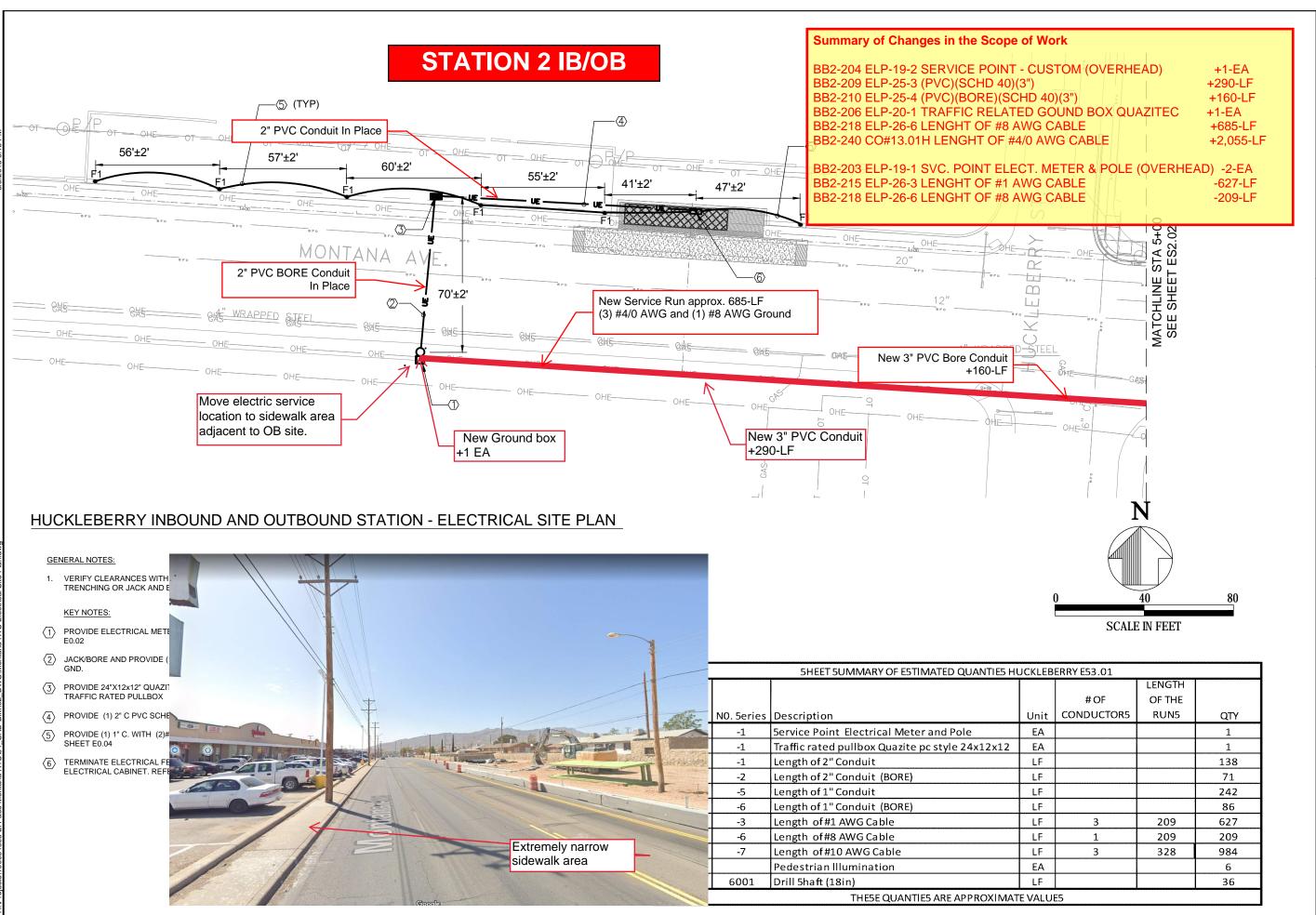
LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT
BB1-152	ELP-20-1	TRAFFIC RELATED GROUND BOXES QUAZITEC PC STYLE 24x12x12	2,597.11	EA	1.00	\$	2,597.11
BB1-160	CO#13.01B	LENGTH OF #4 AWG CABLE	4.040	LF	445.00	\$	1,797.80
BB1-162	CO#13.01D	LENGTH OF #3/0 AWG CABLE	11.760	LF	1,335.00	\$	15,699.60
BB1-164	CO#13.01F	(PVC) (SCHD 40) (3")	19.350	LF	405.00	\$	7,836.75
BB1-165	CO#13.01G	(PVC) (BORE) (SCHD 40) (3")	32.570	LF	40.00	\$	1,302.80
					Increase Subotal	\$	29,234.06
BB1-142	ELP-25-1	(PVC) (SCHD 40) (2")	17.820	LF	(107.00)	\$	(1,906.74)
BB1-146	ELP-26-3	LENGTH OF #1 AWG CABLE	6.920	LF	(321.00)	\$	(2,221.32)
BB1-147	ELP-26-6	LENGTH OF #8 AWG CABLE	3.100	LF	(107.00)	\$	(331.70)
					Decrease Subtotal	\$	(4,459.76)
	ESTIMATED CONTRACT CHANGE						24,774.30

## **STATION 13 TIERRA ESTE IB**

LN#	ITEM	DESCRIPTION	U.P.	UNIT	EST. QTY		EXT. AMOUNT	
BB2-241	CO#13.01I	SVC. POINT ELECT. METER & POLE (OVERHEAD)	10,077.940	EA	1.00	\$	10,077.94	
					Increase Subotal	\$	10,077.94	
BB2-203	ELP-19-1	SVC. POINT ELECT. METER & POLE (OVERHEAD)	8,810.440	EA	(1.00)	\$	(8,810.44)	
					Decrease Subtotal	\$	(8,810.44)	
	ESTIMATED CONTRACT CHANGE						1,267.50	

GRAND TOTAL	\$	133,155.22
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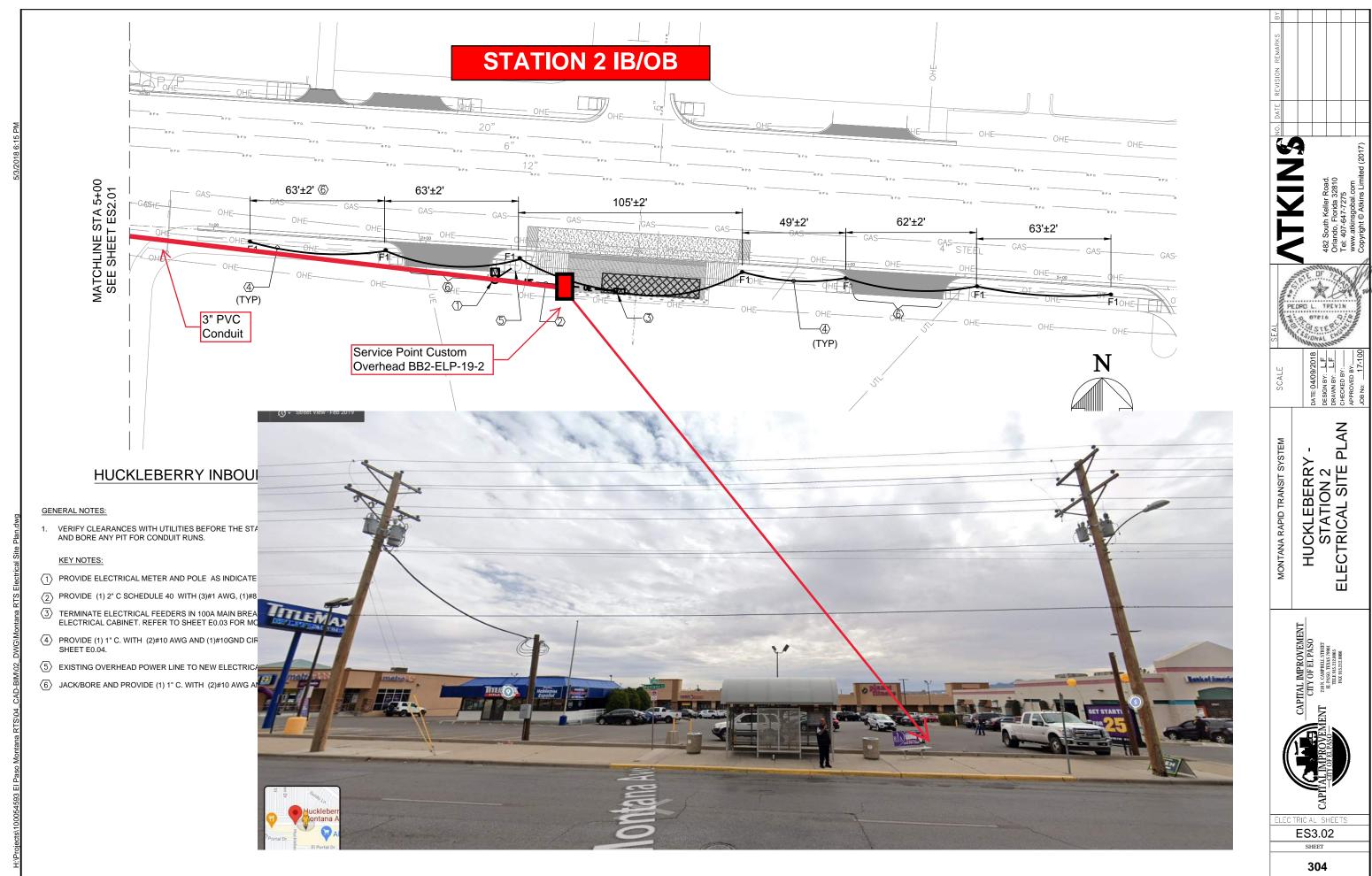
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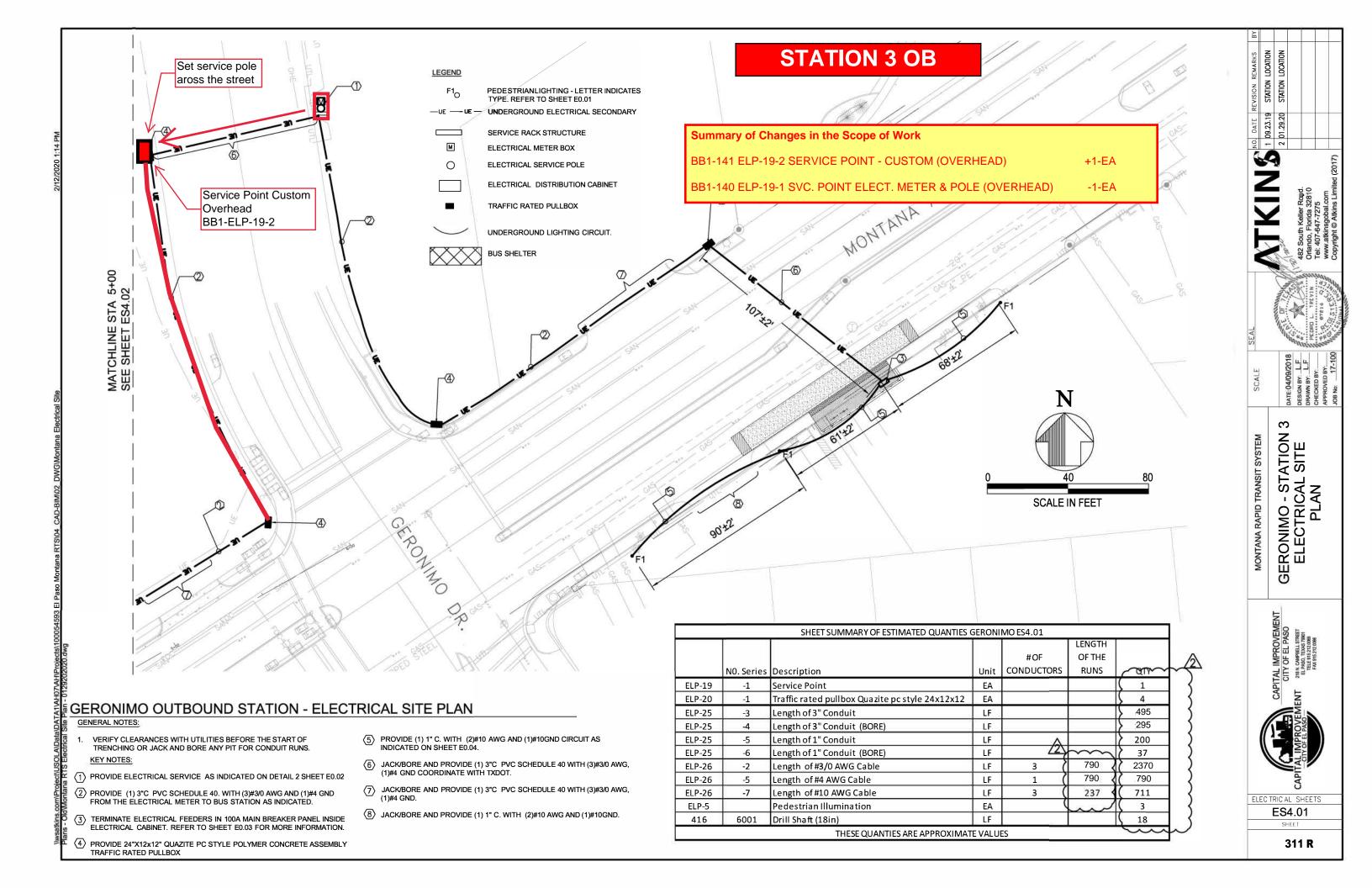
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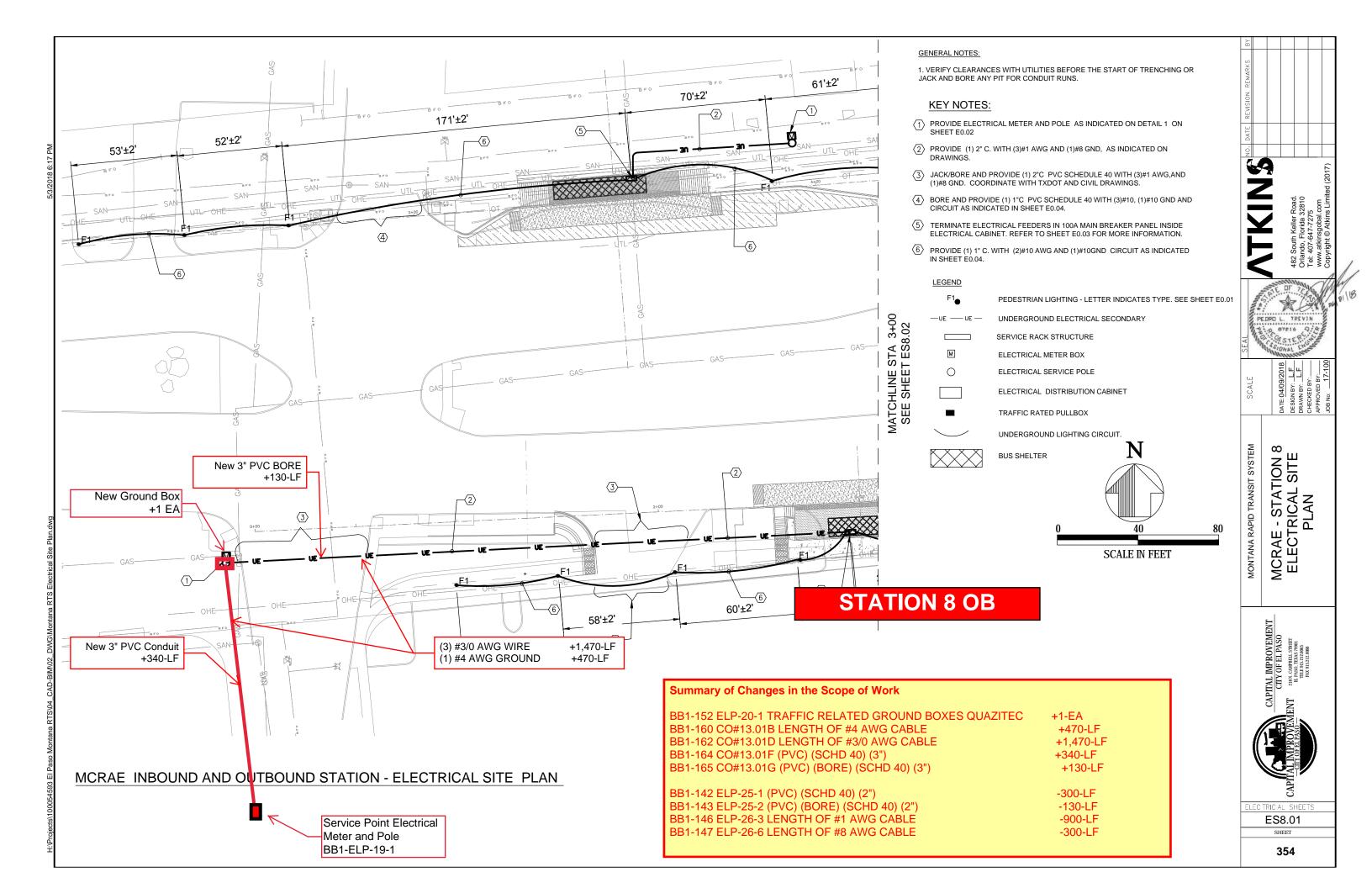
CAPITAL IMPROVEMENT
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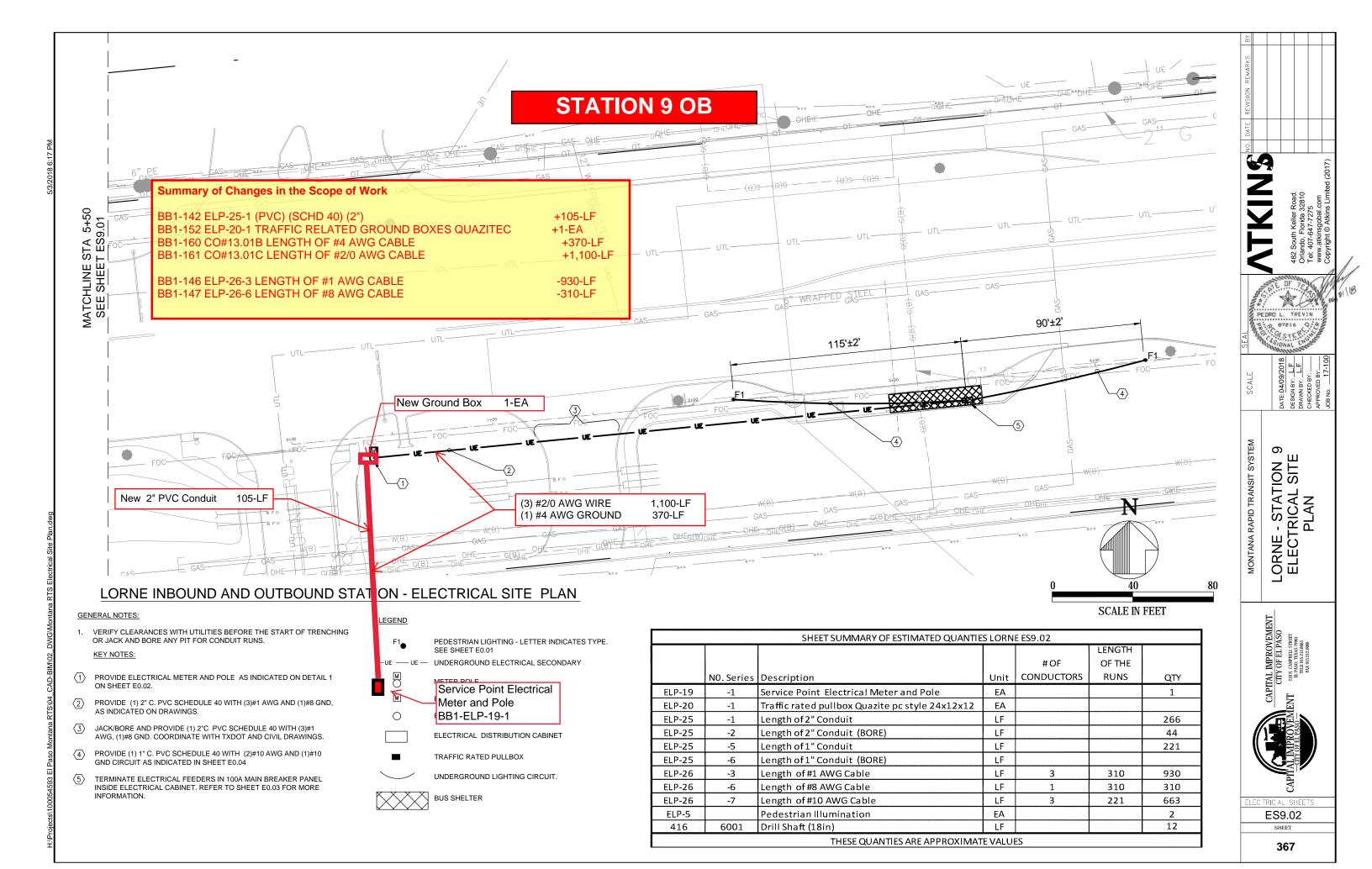
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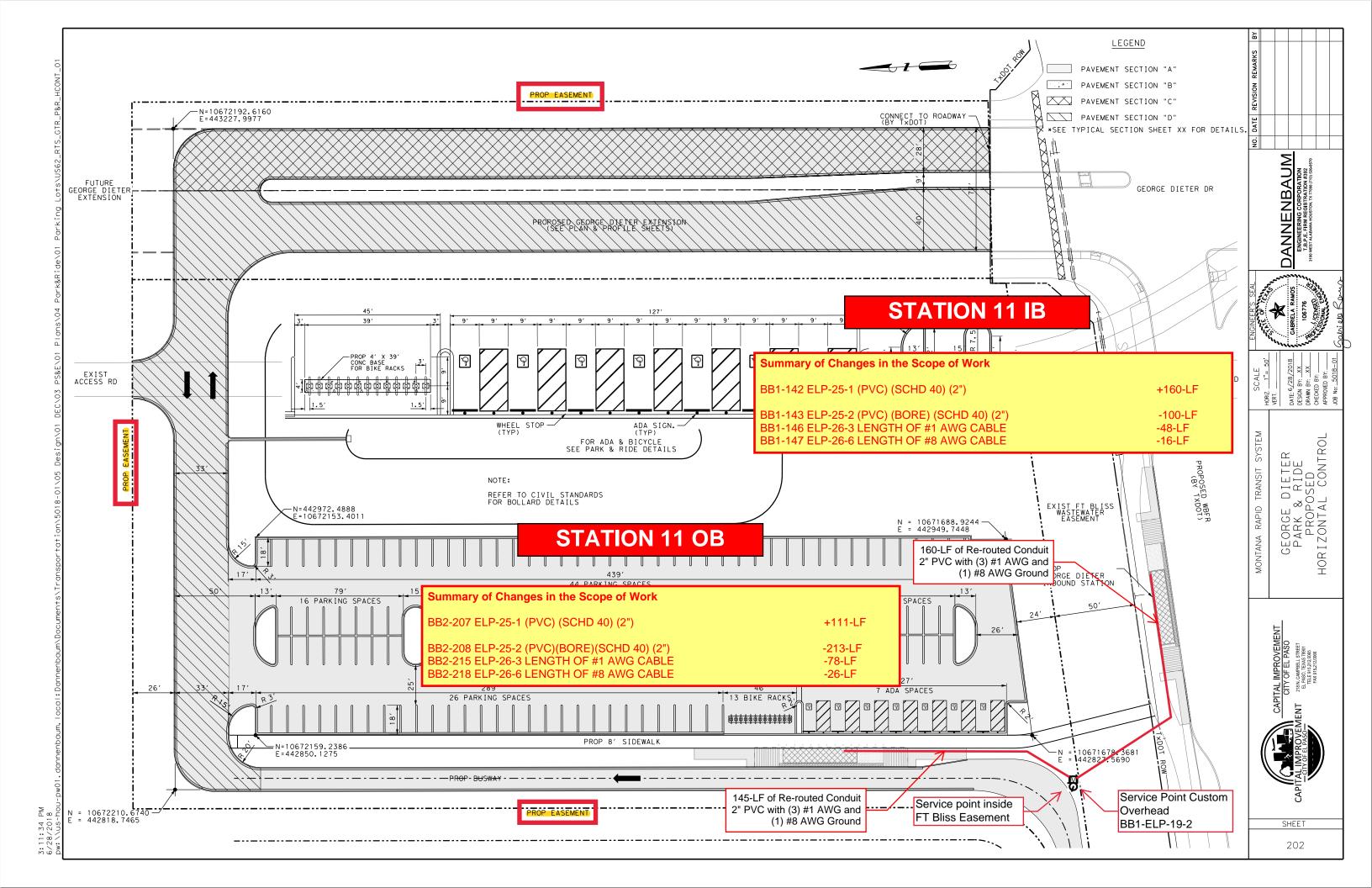
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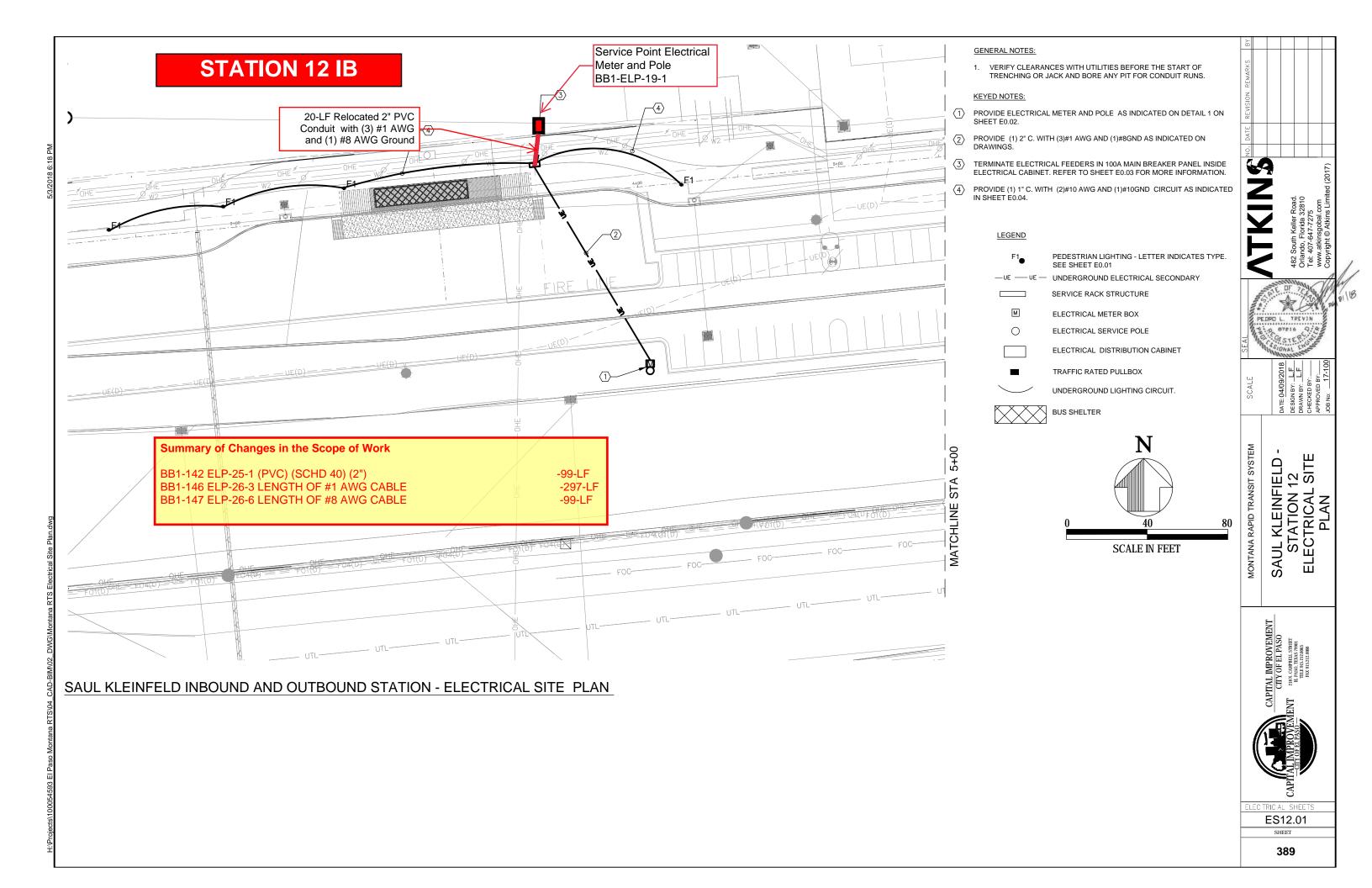


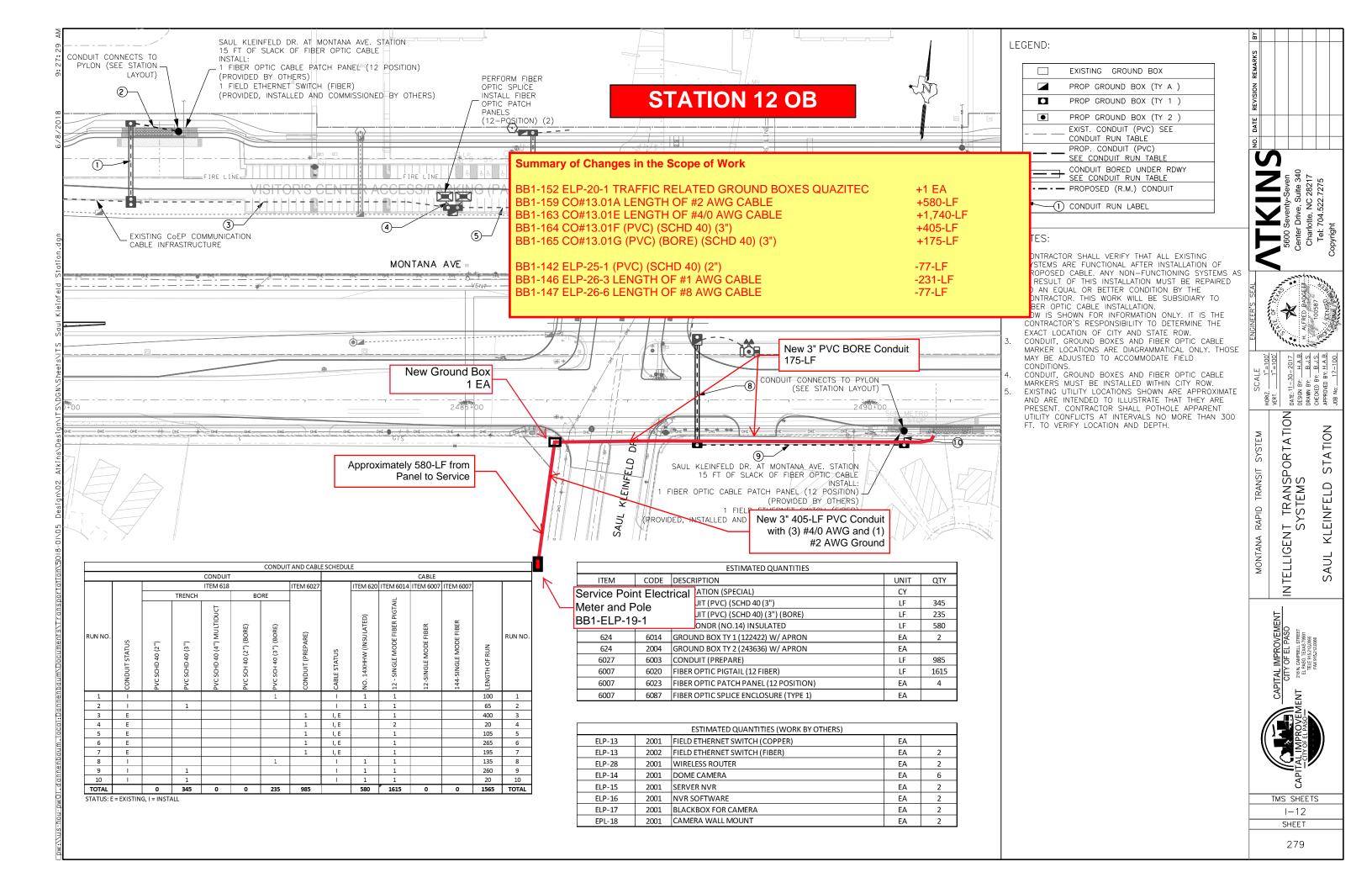


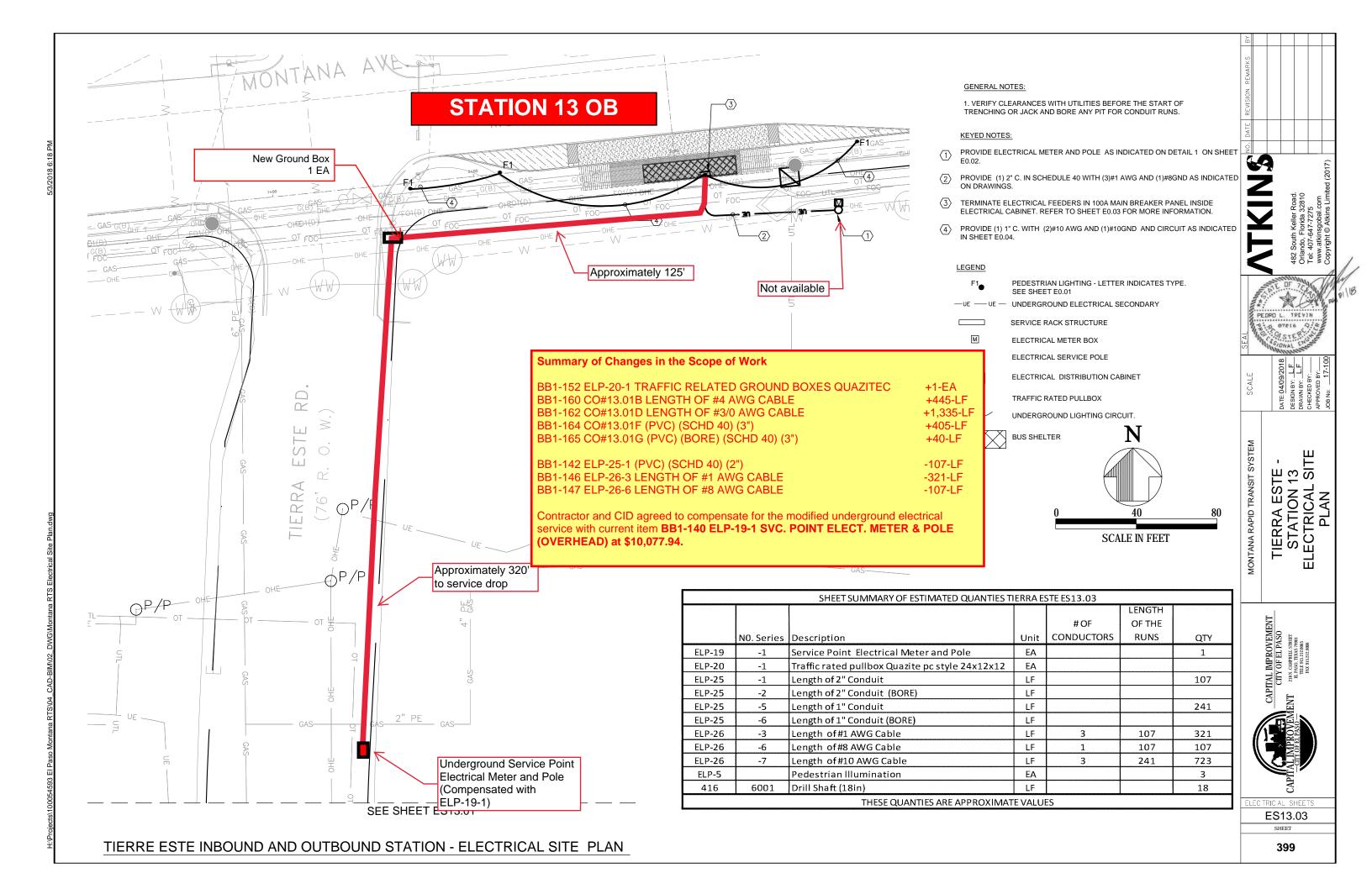


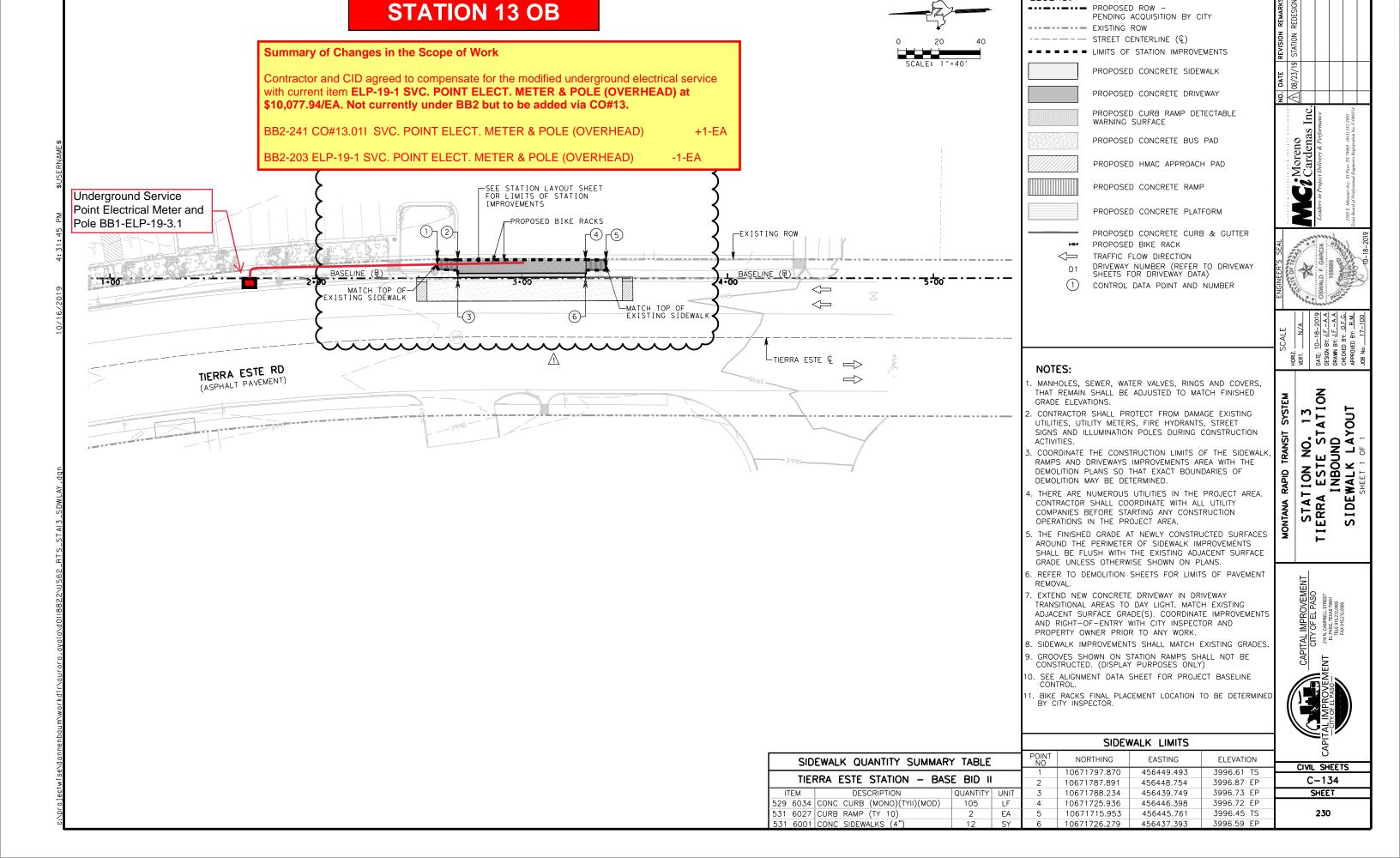












LEGEND:



September 1, 2021

Attn: Alex Avila
Construction Superintendent
City of El Paso - Capital Improvements Department
218 N. Campbell Street
El Paso, TX 79901

**RE:** Montana RTS Improvements

TxDOT CSJ No. 0374-02-089 Solicitation No. 2018-836

RFP #010 - Additional Electrical Wiring
Opinion of Probable Construction Cost (OPCC)

Dear Mr. Avila:

We have performed an independent opinion of probable construction cost in reference to *Request for Proposal, RFP #010,* issued to Venegas Engineering Management and Construction (VEMAC) for the aforementioned project. The subject RFP is in reference to additional work and costs associated with the furnishing and installation of additional electrical wiring for the new electrical services. The additional scope of work was requested by the Capital Improvement Department (CID). This memorandum outlines the background, opinion of construction cost, and suggested course of action.

### **BACKGROUND**

The project improvements consist on furnishing and installing electrical wiring from the canopy structures and to the new electrical services throughout the project sites. As part of the coordination with El Paso Electric Company (EPECo), the service location resulted to be far away from the anticipated location at Station 08 McRae, Station 09 Lorne, Station 12, Saul Kleinfeld, and Station 13 Tierra Este. As a result, additional wiring with an increase in gauge was required to account for the relocated service and to accommodate the proposed service load. The Contractor issued a Request for Information, *RFI #110*, on *April 21*, *2021* requesting direction on how to proceed. The Engineer of Record agreed to incorporate new bid items for electrical wiring needed to accommodate this unforeseen condition. A Request for Proposal, *RFP #010*, was issued on June *17*, *2021*, and the Contractor provided a proposal dated on August *16*, *2021* with a total amount of \$31,656.69. No additional time was requested. If the proposal is accepted as is, a net change in the contract amount is estimated to be:

	RFP #010A #2 AWG Insulated Cable	580-LF	\$3,619.20
	RFP #010B #2/0 AWG Insulated Cable	1,100-LF	\$9,790.92
$\triangleright$	RFP #010C #4/0 AWG Insulated Cable	1,740-LF	\$18,235.2
	Percent Co	ntract Change:	0.16%

#### OPINION OF PROBABLE CONSTRUCTION COST

In an effort to establish an agreeable construction cost for the furnishing and installation of additional electrical wiring, we developed an opinion of probable construction cost based on industry standards and estimating best practices alongside with recommendations from the Construction Management Association of America (CMAA) and TxDOT Best Practices Handbook.

The construction cost was estimated based on available contract pricing and was complemented with TxDOT 12-month Moving Unit Price Averages for the Statewide Averages. No historic data was found on the El Paso Districts' database. Table 1 presents the available historic data.

To provide further contrast, a detailed and itemized estimate was developed based on RSMeans data and historic production rates for this type of work. Labor, equipment, and material costs were estimated. Applicable TxDOT markups were incorporated into each category and a total estimated construction cost was calculated. Equipment and material rates were obtained from the local market. Detail breakdown is found on the attachments. Table 2 presents the estimated construction cost.

Tuble T Conditaction Cool Bucca on Thotono Buta										
Construction Cost Based on Historic Data										
Reference	Description	Quantity	Unit of Measure	Unit Price	Extended Amount					
	620 6022 ELEC CONDR (No. 2) INSULATED	580	LF	3.28	1,902.40					
TxDOT Average Statewide	620 6022 ELEC CONDR (No. 2/0) INSULATED	1,100	LF	7.54	8,294.00					
	620 6022 ELEC CONDR (No. 4/0) INSULATED	1,740	LF	8.16	14,198.40					
			Total Estir	nated Amount	\$ 24,394.80					

Table 1 Construction Cost Based on Historic Data

Table 2 -	Oninion	of Cons	truction Co	et for	RFP #010
I able Z =	UDITION	01 001151	u action ce	วอน เบเ	REF #UIU

<b>Opinion of Probable Cons</b>	struction Cos	t										
Description	Qty	U.O.M		Labor		Material	E	quipment	Subo	contract	Est	timate Total
Electrical Wiring #2 AWG	580	LF		1,062.00		1,943.75		451.95		-		3,457.70
Electrical Wiring #2/0 AWG	1,110	LF		1,258.00		6,688.75		512.95		-		8,459.70
Electrical Wiring #4/0 AWG	1,740	LF		1,520.00		12,818.75		478.95		-		14,817.70
		Subtotal	\$	3,840.00	\$	21,451.25	\$	1,443.85	\$	-	\$	26,735.10
	Bond Compens	ation (1%)	\$	38.40	\$	214.51	\$	14.44			\$	267.35
	Total Estimated Amount					\$	27,002.45					

A probable construction cost for the furnishing and installation of additional electrical wiring is estimated at \$27,003. The Contractor's proposal of \$31,657 exceeds our estimated construction cost by only 14.7%. The Contractor's breakdown was reviewed and validated. Additionally, the Contractor's proposed unit pricing was reviewed against similar electrical wiring work on the contract and was found to be within reasonable limits. For instance, the contract's unit price on the furnishing and installation of a #1 AWG cable was priced at \$6.92/LF whereas the proposed unit price for a #2 AWG cable is at \$6.02/LF. This unit price reflects similar scope of work but with a different gauge wire material. As a result, the proposal was found to be fair and reasonable cost.

## SUGGESTED COURSE OF ACTION

Based on the presented findings, we recommend to accept the proposal as is and incorporate the change into an upcoming change order. Pending your instructions, we will move forward as recommended, or proceed with any other action you believe prudent.

Please do not hesitate to contact us should you require additional information.

Sincerely,

ECM INTERNATIONAL, INC.

Gerardo Garcia, **PE, CCM** Construction Project Manager

Attachment: Estimate Breakdown

RFP #010 Additional Electrical Wiring

Contractor's Original Proposal







### CITY OF EL PASO - CAPITAL IMPROVEMENT DEPARTMENT

#### **MONTANA RTS IMPROVEMENTS**

**TxDOT CSJ No. 0374-02-089** SOLICITATION No. 2018-836

## **OPINION OF PROBABLE CONSTRUCTION COST**

# RFP #010 ADDITIONAL ELECTRICAL WIRING (#2 AWG)

Estimated M	Stimated Manpower Costs													
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount									
L-01	Foreman	4.00	HR	35.00	140.00									
L-02	Skilled Laborer	10.00	HR	18.00	180.00									
L-03	Laborer	10.00	HR	15.00	150.00									
L-04	Electrician	4.00	HR	30.00	120.00									
L-05		-		-	-									

Subtotal on Labor: \$ 590.00

Labor Burden per Item 9L, 7.1.1. (55%): \$ 324.50

Labor Compensation per Item 9L, 7.1.2. (25%): \$ 147.50

Estimated Ma	aterial Costs				
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount
M-01	#2 XHHW CONDUCTOR	580.00	LF	2.25	1,305.00
M-02	Tape, Pull Lube, and Misc. Materials	1.00	LS	250.00	250.00
M-03				-	-
M-04				-	-
M-05				-	-

Subtotal on Materials: \$ 1,555.00

Materials Compensation per Item 9L, 7.1.3. (25%): \$ 388.75

Estimated Eq	Estimated Equipment Costs												
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount								
E-01	Foreman Truck	4.00	HR	22.00	88.00								
E-02	Utility Truck & Pulling Machine	10.00	HR	30.50	305.00								
E-03		-		-	-								
E-04		-		-	-								
E-05		-		-	-								

Subtotal on Equipment: \$ 393.00

Equipment Compensation per Item 9L, 7.1.4. (15%): \$ 58.95

Estimated Subcontractor's Costs											
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount						
S-01		-		-	-						
S-02		-		-	-						
S-03		-		-	-						
S-04		-		-	-						
S-05		-		-	-						

Subtotal on Subcontract \$ -

Subcontract's Compensation per Item 9L, 7.1.5. (5%): \$

SUBTOTAL	\$ 3,457.70

BOND COST PER ITEM 9L, 7.1.8 (1%) \$ 34.58

TOTAL ESTIMATED COST \$ 3,492.28







CITY OF EL PASO - CAPITAL IMPROVEMENT DEPARTMENT

#### **MONTANA RTS IMPROVEMENTS**

TxDOT CSJ No. 0374-02-089 SOLICITATION No. 2018-836

## **OPINION OF PROBABLE CONSTRUCTION COST**

# RFP #010 ADDITIONAL ELECTRICAL WIRING (#2/0 AWG)

stimated Manpower Costs												
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount							
L-01	Foreman	6.00	HR	35.00	210.00							
L-02	Skilled Laborer	12.00	HR	18.00	216.00							
L-03	Laborer	12.00	HR	15.00	180.00							
L-04	Electrician	6.00	HR	30.00	180.00							
L-05		-		-	-							

Subtotal on Labor: \$ 786.00

Labor Burden per Item 9L, 7.1.1. (55%): \$ 324.50

Labor Compensation per Item 9L, 7.1.2. (25%): \$ 147.50

<b>Estimated M</b>	Estimated Material Costs												
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount								
M-01	#2/0 XHHW CONDUCTOR	1,100.00	LF	5.50	6,050.00								
M-02	Tape, Pull Lube, and Misc. Materials	1.00	LS	250.00	250.00								
M-03				-	-								
M-04		-		-	-								
M-05				-	-								

Subtotal on Materials: \$ 6,300.00

Materials Compensation per Item 9L, 7.1.3. (25%): \$ 388.75

Estimated Eq	Estimated Equipment Costs												
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount								
E-01	Truck	4.00	HR	22.00	88.00								
E-02	Utility Truck & Pulling Machine	12.00	HR	30.50	366.00								
E-03		-		-	-								
E-04		-		-	-								
E-05		-		-	-								

Subtotal on Equipment: \$ 454.00

Equipment Compensation per Item 9L, 7.1.4. (15%): \$ 58.95

<b>Estimated Sub</b>	contractor's Costs				
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount
S-01		-		-	-
S-02		-		-	-
S-03		-		-	-
S-04		-		-	-
S-05		-		-	-

Subtotal on Subcontract \$

Subcontract's Compensation per Item 9L, 7.1.5. (5%): \$

SUBTOTAL	\$ 8,459.70

**BOND COST PER ITEM 9L, 7.1.8 (1%)** \$ 84.60

\$ **TOTAL ESTIMATED COST** 8,544.30







### CITY OF EL PASO - CAPITAL IMPROVEMENT DEPARTMENT

#### **MONTANA RTS IMPROVEMENTS**

**TxDOT CSJ No. 0374-02-089** SOLICITATION No. 2018-836

## **OPINION OF PROBABLE CONSTRUCTION COST**

# RFP #010 ADDITIONAL ELECTRICAL WIRING (#4/0 AWG)

Estimated Manpower Costs								
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount			
L-01	Foreman	8.00	HR	35.00	280.00			
L-02	Skilled Laborer	16.00	HR	18.00	288.00			
L-03	Laborer	16.00	HR	15.00	240.00			
L-04	Electrician	8.00	HR	30.00	240.00			
L-05		-		-	-			

Subtotal on Labor: \$ 1,048.00

Labor Burden per Item 9L, 7.1.1. (55%): \$ 324.50 Labor Compensation per Item 9L, 7.1.2. (25%): \$ 147.50

Estimated M	aterial Costs				
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount
M-01	#4/0 XHHW CONDUCTOR	1,740.00	LF	7.00	12,180.00
M-02	Tape, Pull Lube, and Misc. Materials	1.00	LS	250.00	250.00
M-03				-	-
M-04		-		-	-
M-05				-	-

Subtotal on Materials: \$ 12,430.00

Materials Compensation per Item 9L, 7.1.3. (25%): \$ 388.75

Estimated Equipment Costs									
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount				
E-01	Truck	8.00	HR	22.00	176.00				
E-02	Utility Truck & Pulling Machine	8.00	HR	30.50	244.00				
E-03		-		-	=				
E-04		-		-	-				
E-05		-		-	-				

Subtotal on Equipment: \$ 420.00

Equipment Compensation per Item 9L, 7.1.4. (15%): \$ 58.95

<b>Estimated Sub</b>	contractor's Costs				
Item ID#	Description	Quantity	Unit of Measure	Unit Price	Extended Amount
S-01		-		-	-
S-02		-		-	-
S-03		-		-	-
S-04		-		-	-
S-05		-		-	-

Subtotal on Subcontract \$ -

Subcontract's Compensation per Item 9L, 7.1.5. (5%): \$

SUBTOTAL	\$ 14,817.70

BOND COST PER ITEM 9L, 7.1.8 (1%) \$ 148.18

TOTAL ESTIMATED COST \$ 14,965.88



Fax: (915) 351-1908





**RFP #10** 

Project: 0374-02-089 - Montana RTS Improvements

Montana Avenue
El Paso, Texas 79925

ECM International 404 Executive Center Boulevard El Paso, Texas 79902 Phone: (915) 351-1900

		ADDITIONAL ELECTRICAL	. WIRING
REVISION:	0	CREATED DATE:	6/17/2021
STATUS:	Open	DUE DATE:	6/25/2021
COST CODE:		COST IMPACT:	\$0.00
SCHEDULE IMP	ACT:	LOCATION:	Projectwide
DESCRIPTION.			

#### **DESCRIPTION:**

Mr. Robert Martinez
Vice-president and Operations Manager
Venegas Engineering Management and Construction/VEMAC
1919 Rio Grande Street
El Paso, Texas 79902

RE: Montana RTS Improvements Solicitation No. 2018-836 TxDOT CSJ. 0374-02-089

Mr. Martinez.

Please submit a detailed and itemized proposal for changes in the Contract Sum and Contract Time for the proposed modifications to the Contract Documents described on the following items:

#### ELP 26-8 LENGHT OF #2 AWG CABLE 580 LF

- 1. Scope of Work: Provide the necessary equipment, manpower, tools, expertise, coordination and incidentals to furnish and install #2 AWG electrical conductor for the new electrical services at Station 08 McRae, Station 09 Lorne, Station 12, Saul Klenfield, and Station 13 Tierra Este. The pricing shall fully compensate for furnishing, installing, and testing electrical conductors; furnishing and installing breakaway connectors; and for materials, equipment, labor, tools and incidentals.
- 2. Measurement for and payment for this item will be by the linear foot. Please provide a unit price proposal.

#### ELP 26-9 LENGHT OF #2/0 AWG CABLE 1,110 LF

- 1. Scope of Work: Provide the necessary equipment, manpower, tools, expertise, coordination and incidentals to furnish and install #2/0 AWG electrical conductor for the new electrical services at Station 08 McRae, Station 09 Lorne, Station 12, Saul Klenfield, and Station 13 Tierra Este. The pricing shall fully compensate for furnishing, installing, and testing electrical conductors; furnishing and installing breakaway connectors; and for materials, equipment, labor, tools and incidentals.
- 2. Measurement for and payment for this item will be by the linear foot. Please provide a unit price proposal.

#### ELP 26-10 LENGHT OF #4/0 AWG CABLE 1,740 LF

- 1. Scope of Work: Provide the necessary equipment, manpower, tools, expertise, coordination and incidentals to furnish and install #4/0 AWG electrical conductor for the new electrical services at Station 08 McRae, Station 09 Lorne, Station 12, Saul Klenfield, and Station 13 Tierra Este. The pricing shall fully compensate for furnishing, installing, and testing electrical conductors; furnishing and installing breakaway connectors; and for materials, equipment, labor, tools and incidentals.
- 2. Measurement for and payment for this item will be by the linear foot. Please provide a unit price proposal.

## • SUMMARIZED CHANGE IN SPECIFICATIONS:

• UNCHANGED - Special Specification ELP-26 Electrical Conductor.

### • SUMMARIZED CHANGE IN DRAWINGS:

- · NONE.
- · OTHER DOCUMENTS:
  - o Request for Information, RFI #110, Electrical Services Issue.
- REFER TO THE ATTACHMENTS FOR YOUR REFERENCE







## **RFP #10**

Pricing shall be valid for the entire duration of the Project, and inclusive of all materials, equipment, trucking, qualified personnel, and all direct and indirect costs required to successfully execute the scope of work. All applicable Specifications, Special Provisions, Terms and General Conditions of your original contract shall remain in full effect.

Changes in bid quantities due to field adjustments shall be measured, quantified and paid in accordance to your Contract's schedule of unit prices and applicable Contract's General Conditions and Specifications. Traffic control shall be paid under its respective bid items as stipulated on your Original Construction Contract.

This is not a Change Order, a Construction Change Directive or a direction to proceed with the work described in the proposed modifications. If the proposal is found acceptable, a Change Order will be processed and executed in accordance to the Contract's General Conditions. The Contract Sum and Contract Time may only be changed via an executed Change Order.

Do not hesitate to contact me should you have any questions.

Thanks. **ECM INTERNATIONAL, INC.** Gerardo Garcia, P.E., CCM Project Manager

ATTACHMENTS:

0347-02-089 RFI #110.pdf

Workflow Histor	ry				
Action By	Role	Action Taken	Comment	Attachments	Date/Time





### ECM International 404 Executive Center Boulevard El Paso, Texas 79902 P: (915) 351-1900 F: (915) 351-1908

Project: 0374-02-089 Montana RTS Improvements

Montana Avenue

Montana Avenue El Paso. Texas 79925

## RFI #110: Electrical Services Issue

Status Closed on 06/29/21

**To** Jose Reyes (Dannenbaum Engineering

Corporation, LLC.)

Silverio Villalobos (Dannenbaum Engineering

Corporation, LLC.)

From Rene Gonzalez (Venegas Engineering

Management and Construction)

1919 Rio Grande Street

El Paso, 79902

Date InitiatedApr 21, 2021Due DateMay 5, 2021

Location Project Stage Course of Construction

Cost Impact Yes (Unknown) Schedule Impact Yes (Unknown)

Spec Section ELP 19 - Electrical Services Cost Code

Drawing Number Reference

Linked Drawings 303, 354, 366, 367, 398, 399

Received From Rene Gonzalez (Venegas Engineering

Management and Construction)

Copies To Alex Avila (City of El Paso - Capital Improvement Department), Obed Cano (City of El Paso - Capital Improvement Department),

Ismael Cepeda (City of El Paso - Capital Improvement Department), Gerardo Garcia (ECM International, Inc.), Rene Gonzalez (Venegas Engineering Management and Construction), Robert Martinez (Venegas Engineering Management and Construction), Eduardo Nunez (ECM International, Inc.), Alex Pedroza (City of El Paso - Capital Improvement Department), Jose Reyes (Dannenbaum Engineering Corporation, LLC.), Abel Salazar (Venegas Engineering Management and Construction), Daniel Urrutia (Venegas Engineering Management and Construction), Silverio Villalobos (Dannenbaum Engineering Corporation, LLC.),

Victoria Villarreal (City of El Paso - Capital Improvement Department)

#### **Activity**

#### Question

Question from Rene Gonzalez Venegas Engineering Management and Construction on Tuesday, Apr 20, 2021 at 05:44 PM MDT

Alex,

As mentioned previously, please advise how to proceed with several stations (McRae, Huckleberry, Tierra Este, and Lorne) that the electrical service is too far away.

Thank you,

#### Official Response

Response from Gerardo Garcia ECM International, Inc. on Tuesday, Jun 29, 2021 at 09:01 AM MDT

CID is in agreement in using the 3" conduit in lieu of the 2" conduit. Compensation for the 3" conduit will be done under the current contract item BB2-209 ELP-25-3 (PVC)(SCHD 40)(3"). Item for 3" conduit will be added to Base Bid 1 via a change order.

#### Official Response

Response from Rene Gonzalez Venegas Engineering Management and Construction on Wednesday, Jun 16, 2021 at 02:30 PM MDT

Below are comments from subcontractor:

- A 3" conduit is recommended versus the 2" conduit stated by the EOR as it better serves the install/pulling of the
  conductors for those distances and for example, it's what's called-out to install per plans on Mettler/Hawkins &
  Sunmount/Hawkins corridors, therefore, we would be following suit per contract.
- · How will the conductors be paid as they are not listed as payable items in the contract?

Please provide clarification, thank you.

RG



August 16, 2021

Yvette Hernandez C.I.D. Grant Funded Programs Director Capital Improvements Department

218 N. Campbell Street El Paso TX. 79901

Reference: RFP#10 – Additional Electrical Wiring

Mr. Alex Avila,

Please see proposal per RFP #10.

Item	Description	Price		OH&P,	LF	Grand Totals		
A.	ELP 26-8 LENGHT OF #2 AWG CABLE	\$ 5.89	\$	6.24	580.00	\$	3,621.17	
В.	ELP 26-9 LENGHT OF #2/0 AWG CABLE	\$ 8.40	\$	8.90	1,100.00	\$	9,794.40	
C.	ELP 26-10 LENGHT OF #4/0 AWG CABLE	\$ 9.89	\$	10.48	1,740.00	\$	18,241.12	

Sincerely,

VEMAC, Inc

Rene Gonzalez Project Engineer PROJECT: MONTANA RTS CSJ: DESCRIPTION: ADDITIONAL ELECTRICAL WIRING

COUNTY: EL PASO SOLICITATION NO.: 2018-836 DATE 08.09.2021

## **PROJECT NAME:**

LABOR				LABOR	ACT DURA	No. LABOR	T	OTAL
ACTIVITY	DESCRIPTION / LABORER DUTY	QTY	\$/	LABOR HR DAYS		HOURS	LAB	OR COST
	ORDER AND RECEIVE #2 WIRE	1	\$	15.00	0	1.00	\$	15.00
	LOAD WIRE FOR JOB SITE	1	\$	15.00	0	1.00	\$	15.00
	INSTALL CONDUCTOR		\$	-	0	-	\$	-
PULLWIRE	JUAN SOTO SUPERVISOR	1	\$	45.00	0	7.00	\$	315.00
PULLWIRE	ARMANDO ARRIETA	1	\$	24.00	0	7.00	\$	168.00
	CHAD GOOD	1	\$	26.50	0	7.00	\$	185.50
	JOSHUA ACOSTA	1	\$	15.00	0	7.00	\$	105.00
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
		?	\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
	•	6	-		-	30.00	\$	803.50

EQUIPMENT		LABOR					OTAL
TSE EQUIPMENT NO.	DESCRIPTION OF EQUIPMENT	QTY \$/LABOR HR D		<b>DURATION</b>	<b>HOURS</b>	<b>EQUIP COST</b>	
	SUPERVISOR TRUCK	6	\$ 15.00			\$	90.00
	UTILITY TRUCK	14	\$ 19.00			\$	266.00
	PULLING MACHINE	4	\$ 5.50			\$	22.00
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
		<u> </u>					

MATERIAL			UNIT		TOTAL	
ITEM No.	DESCRIPTION OF MATERIAL	QTY	COST		MAT'L CO	ST
	#2 XHHW CONDUCTOR	580.00 \$			\$ 1,200	.60
		\$	-		\$ -	-
		\$	-		\$ -	-
		\$	-		\$ -	-
		\$	-		\$ -	-
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		\$	-		\$ -	-
	•			-	\$ 1,200.	.60

LABOR LABOR BURDEN TOTAL LABOR	55%	\$ \$ <b>\$</b>	803.50 441.93 <b>1,245.43</b>			
EQUIPMENT MATERIAL SUBTOTAL (E+M+TL)		\$ \$ \$	378.00 1,200.60 <b>2,824.03</b>			
OVERHEAD (E+M+TL) SUBTOTAL OVERHEAD	10%	\$ <b>\$</b>	282.40 <b>3,106.43</b>			
PROFIT SUBTOTAL PROFIT MOBILIZATION	10%	\$ \$ \$	310.64 <b>3,417.07</b>			
SUBTOTAL		\$	3,417.07			
BOND <b>GRAND TOTAL</b>	0.00%	\$	3,417.07	\$ 5.	89 LF	

PROJECT: MONTANA RTS CSJ: DESCRIPTION: ADDITIONAL ELECTRICAL WIRING COUNTY: EL PASO SOLICITATION NO.: 2018-836 DATE 08.09.2021

## **PROJECT NAME:**

LABOR			L	4 <i>BOR</i>	ACT DURA	No. LABOR	7	TOTAL
ACTIVITY	DESCRIPTION / LABORER DUTY	QTY	\$/LA	BOR HR	DAYS	HOURS	LAB	OR COST
	ORDER AND RECEIVE 2/0 WIRE	1	\$	15.00	0	1.00	\$	15.00
	LOAD 2/0 WIRE FOR JOB SITE	1	\$	15.00	0	1.00	\$	15.00
	INSTALL CONDUCTOR		\$	-	0	-	\$	-
PULLWIRE	JUAN SOTO SUPERVISOR	1	\$	45.00	0	8.00	\$	360.00
PULLWIRE	ARMANDO ARRIETA	1	\$	24.00	0	8.00	\$	192.00
	CHAD GOOD	1	\$	26.50	0	8.00	\$	212.00
	JOSHUA ACOSTA	1	\$	15.00	0	8.00	\$	120.00
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
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		 !	\$	-	0	-	\$	-
		<u>.</u>	\$	-	0	-	\$	-
	<u> </u>	6			-	34.00	\$	914.00

EQUIPMENT			LABOR			7	OTAL
TSE EQUIPMENT NO.	DESCRIPTION OF EQUIPMENT	QTY	\$/LABOR HR	<b>DURATION</b>	<b>HOURS</b>	EQL	JIP COST
	SUPERVISOR TRUCK	8	\$ 15.00			\$	120.00
	UTILITY TRUCK	16	\$ 19.00			\$	304.00
	PULLING MACHINE	8	\$ 5.50			\$	44.00
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
		: :					
		32			-	\$	468.00

MATERIAL			UNIT	TOTAL
ITEM No.	DESCRIPTION OF MATERIAL	QTY	COST	MAT'L COST
	2/0 XHHW CONDUCTOR	1,100.00	\$ 5.21	\$ 5,731.00
	PULL LUBE	1.00	\$ 12.50	\$ 12.50
	MARKING TAPE	3.00	\$ 2.75	\$ 8.25
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			\$ -	\$ -
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			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
				\$ 5,751.75

LABOR BURDEN	55%	\$ 502.70	
TOTAL LABOR		\$ 1,416.70	
EQUIPMENT		\$ 468.00	
,			
MATERIAL		\$ 5,751.75	
SUBTOTAL (E+M+TL)		\$ 7,636.45	
OVER 15 A D (5 . A A . TL)	400/	762.65	
OVERHEAD (E+M+TL)	10%	\$ 763.65	
SUBTOTAL OVERHEAD		\$ 8,400.10	
PROFIT	10%	\$ 840.01	
	10/0		
SUBTOTAL PROFIT		\$ 9,240.10	
MOBILIZATION		\$ -	
SUBTOTAL		\$ 9,240.10	
BOND	0.00%	\$ -	
GRAND TOTAL		\$ 9,240.10 \$	8.40 L.F.

PROJECT: MONTANA RTS CSJ: DESCRIPTION: ADDITIONAL ELECTRICAL WIRING

COUNTY: EL PASO SOLICITATION NO.: 2018-836 DATE: 08.09.2021

## **PROJECT NAME:**

LABOR			LAI	BOR	ACT DURA	No. LABOR		TOTAL
ACTIVITY	DESCRIPTION / LABORER DUTY	QTY	\$/LAB	OR HR	DAYS	HOURS	LAE	OR COST
	ORDER AND RECEIVE 4/0 WIRE	1	\$	15.00	0	1.00	\$	15.00
	LOAD 4/0 WIRE FOR JOB SITE	1	\$	15.00	0	1.00	\$	15.00
	INSTALL CONDUCTOR	:	\$	-	0	-	\$	-
PULLWIRE	JUAN SOTO SUPERVISOR	1	\$	45.00	0	12.00	\$	540.00
PULLWIRE	ARMANDO ARRIETA	1	\$	24.00	0	12.00	\$	288.00
	CHAD GOOD	1	\$	26.50	0	12.00	\$	318.00
	JOSHUA ACOSTA	1	\$	15.00	0	12.00	\$	180.00
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
		**************************************	\$	-	0	-	\$	-
		•	\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
			\$	-	0	-	\$	-
		•	\$	-	0	-	\$	-
		:	\$	-	0	-	\$	-
	-	6	-		-	50.00	\$	1,356.00

EQUIPMENT			LABOR			7	OTAL
TSE EQUIPMENT NO.	DESCRIPTION OF EQUIPMENT	QTY	\$/LABOR HR	<b>DURATION</b>	<b>HOURS</b>	EQL	JIP COST
	SUPERVISOR TRUCK	8	\$ 15.00			\$	120.00
	UTILITY TRUCK	16	\$ 19.00			\$	304.00
	PULLING MACHINE	8	\$ 5.50			\$	44.00
			\$ -			\$	-
		· · · · · · · · · · · · · · · · · · ·	\$ -			\$	-
			\$ -			\$	-
			\$ -			\$	-
	·		\$ -			\$	-
		: :					
		32	-	-	-	\$	468.00

MATERIAL			UNIT	TOTAL
ITEM No.	DESCRIPTION OF MATERIAL	QTY	COST	MAT'L COST
	4/0 XHHW CONDUCTOR	1,740.00	\$ 6.70	\$ 11,658.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
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			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$
		•		\$ 11,658.00

LABOR BURDEN TOTAL LABOR	55%	\$ <b>\$</b>	745.80 <b>2,101.80</b>		
EQUIPMENT MATERIAL SUBTOTAL (E+M+TL)		\$ \$ <b>\$</b>	468.00 11,658.00 <b>14,227.80</b>		
OVERHEAD (E+M+TL) SUBTOTAL OVERHEAD	10%	\$ <b>\$</b>	1,422.78 <b>15,650.58</b>		
PROFIT SUBTOTAL PROFIT MOBILIZATION	10%	\$ <b>\$</b> \$	1,565.06 <b>17,215.64</b>		
SUBTOTAL		\$	17,215.64		
BOND <b>GRAND TOTAL</b>	0.00%	\$	- 17,215.64 <b>\$</b>	9.89 LF	