

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1

1. CONTRACTOR: The Levy Company

2. Change Order Work Limits: Sta. 490+00 to Sta. 520+00

3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)

4. Reasons: 2G (3 Max. - In order of importance - Primary first)

Project: 23IFB21
RR at Elizabeth
Roadway: Parkway Temp Signals
CSJ
Number: _____

5. Describe the work being revised:

2. Unadjusted utility (unforeseeable). 2G. Other: This Change Order will add and remove items from the project due to unforeseen changes in field conditions. The project conditions have been altered since the initial design and this Change Order will correct these issues. This Change order will also compensate the contractor for installing a temporary controller so that the signal can be activated immediately rather than waiting on the permanent controller which has a long lead-time for delivery.

6. Work to be performed in accordance with Items: See Attached

7. New or revised plan sheet(s) are attached and numbered: 2,7,8

8. New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No

9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i></p> <p>THE CONTRACTOR Date <u>5/16/2023</u></p> <p>By <u>Andrew Hardy</u></p> <p>Typed/Printed Name <u>Andrew Hardy</u></p> <p>Typed/Printed Title <u>Project Coordinator</u></p>	<p>The following information must be provided</p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>N/A</u></p> <p>Amount added by this change order: <u>\$28,245.75</u></p>
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RECOMMENDED FOR EXECUTION:

[Signature] 5/16/2023
Project Manager Date

N/A
Design Engineer Date

Christen Eschberger 5/16/2023
Program Manager Date

Design Engineer's Seal:

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

Bill Gravell May 24, 2023
County Judge Date
☐ APPROVED

WILLIAMSON COUNTY, TEXAS

1

Project # Ronald Reagan at Elizabeth Park Temp Signals

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

				ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
618-6029	CONDT (PVC) (SCH 40) (3")	LF	\$20.00	860.00	\$17,200.00	(675.00)	185.00	\$3,700.00	(\$13,500.00)
618-6070	CONDT (RM) (2")	LF	\$38.00	25.00	\$950.00	65.00	90.00	\$3,420.00	\$2,470.00
620-6007	ELEC CONDR (NO.8) BARE	LF	\$1.70	205.00	\$348.50	(10.00)	195.00	\$331.50	(\$17.00)
620-6008	ELEC CONDR (NO.8) INSULATED	LF	\$1.70	1,910.00	\$3,247.00	1,010.00	2,920.00	\$4,964.00	\$1,717.00
620-6009	ELEC CONDR (NO.6) BARE	LF	\$2.00	185.00	\$370.00	(165.00)	20.00	\$40.00	(\$330.00)
620-6010	ELEC CONDR (NO.6) INSULATED	LF	\$2.00	370.00	\$740.00	255.00	625.00	\$1,250.00	\$510.00
625-6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	\$3.50	1,610.00	\$5,635.00	115.00	1,725.00	\$6,037.50	\$402.50
628-6145	ELC SRV TY D 120/240 060(NS)SS(E)SP(O)	EA	\$8,500.00	1.00	\$8,500.00	(1.00)	0.00	\$0.00	(\$8,500.00)
666-6126	REFL PAV MRK TY I (Y) 4" (SLD) (100MIL)	LF	\$1.20	1,550.00	\$1,860.00	10.00	1,560.00	\$1,872.00	\$12.00
684-6010	TRF SIG CBL (TY A) (12 AWG)(5 CONDR)	LF	\$2.75	2,480.00	\$6,820.00	35.00	2,515.00	\$6,916.25	\$96.25
627-6002	TIMBER POLE (CL 2) 40 FT	EA	\$5,300.00	0.00	\$0.00	2.00	2.00	\$10,600.00	\$10,600.00
628-WC01	ELC SRV TY D 120/240 060(NS)SS(E)EX(U)	EA	\$8,700.00	0.00	\$0.00	1.00	1.00	\$8,700.00	\$8,700.00
618-6023	CONDT (PVC) (SCH 40) (2")	LF	\$65.00	0.00	\$0.00	25.00	25.00	\$1,625.00	\$1,625.00
618-6074	CONDT (RM) (3")	LF	\$76.00	0.00	\$0.00	60.00	60.00	\$4,560.00	\$4,560.00
680-WC01	TEMP SIGNAL CONTROLLER/CABINET	EA	\$19,900.00	0.00	\$0.00	1.00	1.00	\$19,900.00	\$19,900.00
					\$45,670.50			\$73,916.25	\$28,245.75

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

Ronald Reagan at Elizabeth Park Temporary Signals Williamson County Project No. 23IFB21

Change Order No. 1

Reason for Change

This Change Order will compensate the contractor for quantity adjustments needed due to changes in the field condition. The plans have been revised to span the electric service over the Enterprise gas line versus going underground with the lines.

This Change Order also compensates the contractor for installing and maintaining a temporary controller cabinet due to the lead-time on the delivery of the permanent cabinet. This will allow for the signals to be activated immediately rather than later in the year when the new cabinet is scheduled to be delivered.

The following is a list of new items required for this Change Order.

ITEM	DESCRIPTION	QUANTITY	UNIT
627-6002	TIMBER POLE (CL 2) 40 FT	2.00	EA
628-WC01	ELC SRV TY D 120/240 060(NS)SS(E)EX(U)	1.00	EA
618-6023	CONDT (PVC) (SCH 40) (2")	25.00	LF
618-6074	CONDT (RM) (3")	60.00	LF
680-WC01	TEMP SIGNAL CONTROLLER/CABINET	1.00	EA

This Change Order results in a net increase of \$28,245.75 to the Contract amount, for an adjusted Contract total of \$245,147.97. The original Contract amount was \$216,902.22. As a result of this and all Change Orders to-date, \$28,245.75 has been added to the Contract, resulting in a 13% net increase in the overall Contract cost.

HNTB Corporation

Oscar Salazar-Bueno, P.E.



16294 IH 35 N.
Selma TX 78154
210.497.4500 phone
210-653-2835 fax

April 19, 2023

Mr. Randy Ehresman, P.E.
HNTB

Re: Owner - Williamson County
Project - Ronald Reagan Blvd Temp Traffic Signal
Project #23IFB21
Levy Job #2023-887
Field Change – Revised Traffic Signal

Dear Mr. Ehresman:

We offer the attached field change price proposal to account for the changes made to plan sheets 2, 7 & 8 in order to address the issues with routing power to the signal intersection. The attached summary table details the quantity changes to the original contract bid items because of the plan revisions, and incorporates corrections made by the Levy team to plan sheet 8 (see attached). Furthermore, we have added pricing for five new bid items. An explanation of each new bid item is included below:

1. TIMBER POLE (CL 2) 40 FT – Added timber poles for routing power overhead between electrical service enclosure & signal controller (poles A1 & A2 on plan sheet 7). Includes a down guy for each pole.
2. TEMP SIGNAL CONTROLLER/CABINET – Provide & install a used signal controller & cabinet mounted to the permanent controller foundation. Temp controller is needed to run the signal system until such time as the permanent controller is available. Permanent controller has a long lead-time. Item includes removal of the temp controller cabinet when no longer needed. Item also includes maintaining the signal system for up to 9 months while waiting for the permanent controller to arrive. Maintenance is to cover the correction of any issues stemming from equipment failures or workmanship and any preventative maintenance steps required. Maintenance does not include issues caused by a 3rd party (e.g. public vehicle accident, Acts of God, damages caused by a contractor, vandalism).
3. ELC SRV TY D 120/240 060(NS)SS(E)EX(U) – Provide & install electrical service enclosure onto one of the 40' timber poles mentioned above. Item includes tie-in of conduits to bottom of enclosure. Conduit riser going up the pole to be paid separately. Item also includes installing a main breaker enclosure onto the existing PEC power pedestal. PEC to provide & install meter on existing pedestal.
4. CONDT (PVC)(SCH 40)(2") – Short conduits runs at the foot of each 40' timber pole for the purpose of routing power wiring.
5. CONDT (RM)(3") – Conduit risers with weather heads mounted to timber signal poles to separate signal cables & detections cables from power cables.



04/19/23

Sincerely,

Andy Ajas, P.E.
The Levy Company, Inc.

THE LEVY COMPANY, INC.

OWNER: Williamson County
 PROJECT: Ronald Reagan Blvd - Temp Signals
 PROJECT #: 23IFB21
 LEVY JOB NO. 2022-887

FIELD CHANGE: REVISE TRAFFIC SIGNALS

DATE: 4/19/2023

ITEM	DESCRIPTION	UNIT	ORIG PLUS PREV REVISED QUANT	FC QUANT	NEW TOTAL QUANT	UNIT PRICE	FC AMOUNT
0300-6001	CONDT (PVC) (SCH 40) (3")	LF	860.00	-675.00	185.00	\$20.00	-\$13,500.00
0400-6001	CONDT (RM) (2")	LF	25.00	65.00	90.00	\$38.00	\$2,470.00
0500-6001	ELEC CONDR (NO.8) BARE	LF	205.00	-10.00	195.00	\$1.70	-\$17.00
0600-6001	ELEC CONDR (NO.8) INSULATED	LF	1,910.00	1,010.00	2,920.00	\$1.70	\$1,717.00
0700-6001	ELEC CONDR (NO.6) BARE	LF	185.00	-165.00	20.00	\$2.00	-\$330.00
0800-6001	ELEC CONDR (NO.6) INSULATED	LF	370.00	255.00	625.00	\$2.00	\$510.00
1000-6001	ZINC-COAT STL WIRE STRAND (3/8")	LF	1,610.00	115.00	1,725.00	\$3.50	\$402.50
1100-6001	ELC SRV TY D 120/240 060(NS)SS(E)SP(O)	EA	1.00	-1.00	0.00	\$8,500.00	-\$8,500.00
1900-6001	REFL PAV MRK TY I (Y) 4" (SLD) (100MIL)	LF	1,550.00	10.00	1,560.00	\$1.20	\$12.00
3300-6001	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	2,480.00	35.00	2,515.00	\$2.75	\$96.25
	TIMBER POLE (CL 2) 40 FT	EA	0.00	2.00	2.00	\$5,300.00	\$10,600.00
	TEMP SIGNAL CONTROLLER/CABINET	EA	0.00	1.00	1.00	\$19,900.00	\$19,900.00
	ELC SRV TY D 120/240 060(NS)SS(E)EX(U)	EA	0.00	1.00	1.00	\$8,700.00	\$8,700.00
	CONDT (PVC) (SCH 40) (2")	LF	0.00	25.00	25.00	\$65.00	\$1,625.00
	CONDT (RM) (3")	LF	0.00	60.00	60.00	\$76.00	\$4,560.00
	TOTAL FIELD CHANGE AMOUNT						\$28,245.75



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SUMMARY OF SIGNAL QUANTITIES											
ITEM:	0618	0618	0620	0620	0620	0620	0624	0625	0627	0628	*0680
DESC. CODE:	6029	6070	6007	6008	6009	6010	6010	6003	6002	6145	6002
SHT NO.	CONDT (PVC) (SCH 40) (3")	CONDT (RM) (2")	ELEC CONDR (NO. 8) BARE	ELEC CONDR (NO. 8) INSULATED	ELEC CONDR (NO. 6) BARE	ELEC CONDR (NO. 6) INSULATED	GROUND BOX TY D (162922) W/ APRON	ZINC-COAT STL WIRE STRAND (3/8")	TIMBER POLE (CL 2) 40 FT	ELC SRV TY D 120/240 060 (NS) SS (E) SP (O)	INSTALL HWY TRF SIG (ISOLATED)
1 OF 1	LF 840	LF 105	LF 195	LF 2280	LF 175	LF 935	EA 2	LF 1840	EA 2	EA 1	EA 1
PROJECT TOTALS	840	105	195	2280	175	935	2	1840	2	1	1

* TIMBER POLES ARE
SUBSIDIARY TO ITEM 680.

SUMMARY OF SIGNAL QUANTITIES												
ITEM:	0682	0682	0682	0682	0682	0682	0682	0682	0684	0684	0690	6306
DESC. CODE:	6001	6002	6003	6004	6005	6006	6051	6052	6010	6049	6137	6002
SHT NO.	VEH SIG SEC (12") LED (G RN)	VEH SIG SEC (12") LED (G RN ARW)	VEH SIG SEC (12") LED (Y EL)	VEH SIG SEC (12") LED (Y EL ARW)	VEH SIG SEC (12") LED (R ED)	VEH SIG SEC (12") LED (R ED ARW)	BACKPLATE W/REFL BRDR (3 SEC) ALUM	BACKPLATE W/REFL BRDR (4 SEC) ALUM	TRF SIG CBL (TY A) (12 AWG) (5 CONDR)	TRF SIG CBL (TY A) (16 AWG) (3 CONDR)	VIVDS CABLE (INSTALL)	VIVDS CAM ASSY FXD LNS
1 OF 1	EA 6	EA 3	EA 6	EA 1	EA 6	EA 1	EA 5	EA 2	LF 2480	LF 1325	LF 1325	EA 3
PROJECT TOTALS	6	3	6	1	6	1	5	2	2480	1325	1325	3

SUMMARY OF SMALL SIGNS AND PAVEMENT MARKING QUANTITIES												
ITEM:	0636	0644	0644	0666	0666	0666	0666	0666	0672	0677	0677	0677
DESC. CODE:	6007	6001	6004	6006	6012	6036	6048	6126	6009	6001	6003	6008
SHT NO.	REPLACE EXISTING ALUMINUM SIGNS (TY A)	IN SM RD SN SUP&AM TY10BWG (1) SA (P)	IN SM RD SN SUP&AM TY10BWG (1) SA (T)	REFL PAV MRK TY I (W) 4" (DOT) (100MIL)	REFL PAV MRK TY I (W) 4" (SLD) (100MIL)	REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	REFL PAV MRK TY I (W) 24" (SLD) (100MIL)	REFL PAV MRK TY I (Y) 4" (SLD) (100MIL)	REFL PAV MRKR TY II-A-A	ELIM EXT PAV MRK & MRKS (4")	ELIM EXT PAV MRK & MRKS (8")	ELIM EXT PAV MRK & MRKS (ARROW)
1 OF 3	SF	EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	EA
2 OF 3	9	1	1	37	30	95	85	995	100	215	300	1
3 OF 3		1	1					565	44	317		1
PROJECT TOTALS	9	2	2	37	30	95	85	1560	144	532	300	2

1		CHANGE ORDER NO.1			
NO.	REVISION				BY DATE
					
RONALD REAGAN BLVD. AT ELIZABETH PARK BLVD.					
SUMMARY OF QUANTITIES					
Designed:	ATG	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	ATG	X	TEXAS	SEE TITLE SHEET	TITLE SHEET
Drawn:	ATG	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	ATG		WILLIAMSON		JOB NO.
					2

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CONDUCTOR AND CONDUIT SCHEDULE											
RUN NO.	RUN LENGTH (FT)	CONDUIT		AERIAL SPAN WIRE	POWER/GROUND				SIGNAL	VIVDS	
		3" SCH40 PVC TRENCH	2" RM POLE MNT	WIRE STRAND 3/8" GUY	#8 AWG (BARE)	#8 AWG (INS)	#6 AWG (BARE)	#6 AWG (INS)	5/C #12 AWG	3/C #16 AWG	CABLE
1	40		1-30'			2 6		3			
1.1	115			2 1		2 6		3			
1.2	40		1-30'			2 6		3			
2	175	2					1	2			
3	195	2 1-45'			1	2 6					
4	25	4							7	5	5
5	25	1-5'	1-30'			3 0			7	5	5
6*	125			2					3		
7	20			2					2		
8	25			2					1		
9	55			2							
10	105			2					4	3	3
11*	155			2		3 4			4	2	2
12	45			2		3 2+100			4	2	2
13	30			2		3 2			4	2	2
14*	125			2		3 2			3	2	2
15	35			2		3 2+100			2	2	2
16	25			2					2		
17	60			2					1		
New Totals		185'	90'	1725'	2920'	20	625	2515	1325	1325	
TOTALS		840	105	1840	195	2235	175	935	2445	1275	1275

* 50 FT. ADDITIONAL LENGTH ADDED FOR FUTURE TCP PREPARATION. COIL AND MOUNT SLACK TO ADJACENT POLE.

CONDUCTORS/CABLE IN CABINET (LF)			
5/C (SIGNAL)	3/C (VIVDS)	COAX (VIVDS)	NO. 8 BARE
35	25	25	5

ELIZABETH PARK BLVD TEMP SIGNAL QUANTITY				
BID CODE	DESCRIPTION	UNIT	QTY	
0618 6029	CONDT (PVC) (SCH 40) (3")	LF	860	
0618 6070	CONDT (RM) (2")	LF	25	
0620 6007	ELEC CONDR (NO. 8) BARE	LF	205	
0620 6008	ELEC CONDR (NO. 8) INSULATED	LF	1910	
0620 6009	ELEC CONDR (NO. 6) BARE	LF	185	
0620 6010	ELEC CONDR (NO. 6) INSULATED	LF	370	
0624 6010	GROUND BOX TY D (162922)W/APRON	EA	2	
0625 6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	1610	
0628 6145	ELC SRV TY D 120/240 060 (NS)SS(E)SP(O)	EA	1	
0680 6002	INSTALL HWY TRF SIG (ISOLATED)	EA	1	
0682 6001	VEH SIG SEC (12")LED(GRN)	EA	6	
0682 6002	VEH SIG SEC (12")LED(GRN ARW)	EA	3	
0682 6003	VEH SIG SEC (12")LED(YEL)	EA	6	
0682 6004	VEH SIG SEC (12")LED(YEL ARW)	EA	1	
0682 6005	VEH SIG SEC (12")LED(RED)	EA	6	
0682 6006	VEH SIG SEC (12")LED(RED ARW)	EA	1	
0682 6051	BACKPLATE W/REFL BRDR(3 SEC)ALUM	EA	5	
0682 6052	BACKPLATE W/REFL BRDR(4 SEC)ALUM	EA	2	
0684 6010	TRF SIG CBL (TY A) (12 AWG) (5 CONDR)	LF	2480	
0684 6049	TRF SIG CBL (TY A) (16 AWG) (3 CONDR)	LF	1325	
0690 6137	VIVDS CABLE (INSTALL)	LF	1325	
6306 6002	VIVDS CAM ASSY FXD LNS	EA	3	

SIGNAL POLE CONDUCTOR QUANTITIES				
POLE	TYPE	VIVDS		ILL
		CABLE		INS
POLE A	TIMBER	10	10	15
POLE B	TIMBER			
POLE C	TIMBER	5	5	15
POLE D	TIMBER			
POLE E	TIMBER	10	10	15
POLE F	TIMBER			
TOTALS (LF)		25	25	45

CABLE TERMINATION CHART							
CONDR COLOR	CABLE 1	CABLE 2	CABLE 3	CABLE 4	CABLE 5	CABLE 6	CABLE 7
	HEAD 1 TO CNTRL 5 CONDR	HEAD 2 TO CNTRL 5 CONDR	HEAD 3 TO CNTRL 5 CONDR	HEAD 4 TO CNTRL 5 CONDR	HEAD 5 TO CNTRL 5 CONDR	HEAD 6 TO CNTRL 5 CONDR	HEAD 7 TO CNTRL 5 CONDR
BLACK	H3 Y ARW PHASE 1	H4 Y PHASE 6	H5 Y PHASE 6	H1 Y PHASE 2	H2 Y PHASE 2	H6 Y PHASE 8	H7 Y PHASE 8
WHITE	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON
RED	H3 R ARW PHASE 1	H4 R PHASE 6	H5 R PHASE 6	H1 R PHASE 2	H2 R PHASE 2	H6 R PHASE 8	H7 R PHASE 8
GREEN	H3 G ARW PHASE 1	H4 G PHASE 6	H5 G PHASE 6	H1 G PHASE 2	H2 G PHASE 2	H6 G (G ARW) PHASE 8	H7 G (G ARW) PHASE 8
ORANGE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

ELECTRICAL SERVICE DATA											
Elec. Service ID	Electrical Service Description	Service *Conduit Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amps	Lighting Contactor Amps	Panel/bd/ Loadcenter Amp Rating	Branch Dircuit ID	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
NO. 1	ELC SRV TY D 120/240 060 (NS)SS(E)SP(O)	1 1/4"	3/#6	N/A	2P/60	N/A	100	SIGNAL	2P/30	23	6
								LIGHTING	2P/15	2.13	

2" Sch 40 Trench 1-10'
1-10'
1-5'
25'
0
+25

3" RM Pole Mnt 1-30'
1-30'
60'
0
+60

Refer to the redline mark-ups submitted by the contractor. Clean sheet from Engineer dated 3/10/23 is superseded.

STATE OF TEXAS
DOUGLAS BURNETT JR.
140757
LICENSED PROFESSIONAL ENGINEER
3.10.23
Doug Burnett

CHANGE ORDER NO. 1	DAB	3/10/2023
NO.	REVISION	BY DATE



RONALD REAGAN BLVD. AT ELIZABETH PARK BLVD

TEMPORARY SIGNAL DETAILS AND SUMMARY

Designed: ATG	FED. RD. DIV. NO. X	STATE TEXAS	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: ATG	DIST.	COUNTY	SEE TITLE SHEET	TITLE SHEET
Drawn: ATG	CONTR. NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked: ATG	WILLIAMSON			8

SUPERSEDED

Refer to redline mark-ups submitted by the contractor. This sheet is superseded.

CONDUCTOR AND CONDUIT SCHEDULE											
RUN NO.	RUN LENGTH (FT)	CONDUIT		AERIAL SPAN WIRE	POWER/GROUND				SIGNAL	VIVDS	
		3" SCH40 PVC TRENCH	2" RM POLE MNT	WIRE STRAND 3/8" GUY	#8 AWG (BARE)	#8 AWG (INS)	#6 AWG (BARE)	#6 AWG (INS)	5/C #12 AWG	3/C #16 AWG	CABLE
1	40		1			2		3	1		
1.1	115			2		2		3			
1.2	40		1			2		3			
2	175	2					1	2			
3	195	2			1	2					
4	25	4							7	5	5
5	25		1			3			7	5	5
6*	125			2					3		
7	20			2					2		
8	25			2					1		
9	55			2							
10	105			2		3			4	3	3
11*	155			2		3			4	2	2
12	45			2		3			4	2	2
13	30			2		3			3	2	2
14*	125			2		3			2	2	2
15	35			2					2		
16	25			2					1		
17	60			2							
TOTALS		840	105	1840	195	2235	175	935	2445	1275	1275

* 50 FT ADDITIONAL LENGTH ADDED FOR FUTURE TCP PREPARATION. COIL AND MOUNT SLACK TO ADJACENT POLE.

CONDUCTORS/CABLE IN CABINET (LF)			
5/C (SIGNAL)	3/C (VIVDS)	COAX (VIVDS)	NO. 8 BARE
35	25	25	5

ELIZABETH PARK BLVD TEMP SIGNAL QUANTITY				
BID CODE	DESCRIPTION		UNIT	QTY
0618	6029	CONDT (PVC) (SCH 40) (3")	LF	860
0618	6070	CONDT (RM) (2")	LF	25
0620	6007	ELEC CONDR (NO.8) BARE	LF	205
0620	6008	ELEC CONDR (NO.8) INSULATED	LF	1910
0620	6009	ELEC CONDR (NO.6) BARE	LF	185
0620	6010	ELEC CONDR (NO.6) INSULATED	LF	370
0624	6010	GROUND BOX TY D (162922)W/APRON	EA	2
0625	6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	1610
0628	6145	ELC SRV TY D 120/240 060 (NS)SS(E)SP(O)	EA	1
0680	6002	INSTALL HWY TRF SIG (ISOLATED)	EA	1
0682	6001	VEH SIG SEC (12")LED(GRN)	EA	6
0682	6002	VEH SIG SEC (12")LED(GRN ARW)	EA	3
0682	6003	VEH SIG SEC (12")LED(YEL)	EA	6
0682	6004	VEH SIG SEC (12")LED(YEL ARW)	EA	1
0682	6005	VEH SIG SEC (12")LED(RED)	EA	6
0682	6006	VEH SIG SEC (12")LED(RED ARW)	EA	1
0682	6051	BACKPLATE W/REFL BRDR(3 SEC)ALUM	EA	5
0682	6052	BACKPLATE W/REFL BRDR(4 SEC)ALUM	EA	2
0684	6010	TRF SIG CBL (TY A) (12 AWG) (5 CONDR)	LF	2480
0684	6049	TRF SIG CBL (TY A) (16 AWG) (3 CONDR)	LF	1325
0690	6137	VIVDS CABLE (INSTALL)	LF	1325
6306	6002	VIVDS CAM ASSY FXD LNS	EA	3

SIGNAL POLE CONDUCTOR QUANTITIES				
POLE	TYPE	VIVDS		ILL
		CABLE		INS
		3C#16	COAXIAL	#8 C
POLE A	TIMBER	10	10	15
POLE B	TIMBER			
POLE C	TIMBER	5	5	15
POLE D	TIMBER			
POLE E	TIMBER	10	10	15
POLE F	TIMBER			
TOTALS (LF)		25	25	45

CABLE TERMINATION CHART							
CONDR COLOR	CABLE 1	CABLE 2	CABLE 3	CABLE 4	CABLE 5	CABLE 6	CABLE 7
	HEAD 1 TO CNTRL 5 CONDR	HEAD 2 TO CNTRL 5 CONDR	HEAD 3 TO CNTRL 5 CONDR	HEAD 4 TO CNTRL 5 CONDR	HEAD 5 TO CNTRL 5 CONDR	HEAD 6 TO CNTRL 5 CONDR	HEAD 7 TO CNTRL 5 CONDR
BLACK	H3 Y ARW PHASE 1	H4 Y PHASE 6	H5 Y PHASE 6	H1 Y PHASE 2	H2 Y PHASE 2	H6 Y PHASE 8	H7 Y PHASE 8
WHITE	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON	SIGNAL COMMON
RED	H3 R ARW PHASE 1	H4 R PHASE 6	H5 R PHASE 6	H1 R PHASE 2	H2 R PHASE 2	H6 R PHASE 8	H7 R PHASE 8
GREEN	H3 G ARW PHASE 1	H4 G PHASE 6	H5 G PHASE 6	H1 G PHASE 2	H2 G PHASE 2	H6 G (G ARW) PHASE 8	H7 G (G ARW) PHASE 8
ORANGE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

ELECTRICAL SERVICE DATA											
Elec. Service ID	Electrical Service Description	Service *Conduit Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amps	Lighting Contactor Amps	Panel/bd/ Loadcenter Amp Rating	Branch Dircuit ID	Branch Ckt. Bkr. Pole/Amps	Branch Circuit+ Amps	KVA Load
NO.1	ELC SRV TY D 120/240 060 (NS)SS(E)SP(O)	1 1/4"	3/#6	N/A	2P/60	N/A	100	SIGNAL	2P/30	23	6
								LIGHTING	2P/15	2.13	

STATE OF TEXAS

DOUGLAS BURNETT JR.

140757

PROFESSIONAL ENGINEER

03.10.23

Doug Burnett

Williamson County

1848

ATGALLIANCE

TRANSPORTATION GROUP

TBPE Firm Registration No. F-812

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Phone: 512-821-2081 | Fax: 512-821-2085

RONALD REAGAN BLVD. AT ELIZABETH PARK BLVD

TEMPORARY SIGNAL DETAILS AND SUMMARY

Designed:	ATG	FED. RD. DIV. NO.	X	STATE	TEXAS	FEDERAL AID PROJECT NO.			HIGHWAY NO.		
Checked:	ATG					SEE TITLE SHEET			TITLE SHEET		
Drawn:	ATG	DIST.		COUNTY	WILLIAMSON	CONTROL NO.	SECTION NO.	JOB NO.			SHEET NO.
Checked:	ATG										8

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