WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 3

1. CONTRACTOR: QA Construction Services Inc	c.			Project:	Great Oaks WL Relocation
2. Change Order Work Limits: Sta. 10+00) to	Sta.	19+00	Roadway:	
3. Type of Change(on federal-aid non-exempt projects)): -	Mino	_(Major/Minor)	CSJ Number:	3185
4. Reasons: 2E, 4B, 1A (3 Max Ir	n order of	f imports	ince - Primary first)		
5. Describe the work being revised: 2E: Differing Site Contions (unforeseeable). Miscellar provides the final balancing of the overrur/underrun of Coaccounted for in the original plans. 4B: Third Party According to the contract for the Fern Bluff 12" water line connect project. 1A: Design Error or Omission. Incorrect PS&E match the plans. This Change Order also adds an item to 6. Work to be performed in accordance with Items: 7. New or revised plan sheet(s) are attached and nu	ontract quommodal ctions ma E. This Cloaccess I see umbered:	uantities tion. The ade afte hange (liquidate attach	on the project as a ird party requester r substantial compl order corrects item of d damages on the C	result of address d work. This Ch ation was achei quantitles from the	sing field conditions no ange Order adds items ved for the rest of the
New Special Provisions/Specifications to the cont	tract are	attache	ed: 🔲 Ye	es 🗹	No
New Special Provisions to Item N/A No. N/A	, Special	I Specif	ication Item N/A	are attache	d.
Each signatory hereby warrants that each has the au	uthority to	о ехесь	te this Change Or	der (CO).	
The contractor must sign the Change Order and, by doing so, agrees to 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.		Th Time E	e following information (ixt. #: N/A	nation must b Days added	
THE CONTRACTOR Date 124	120	Amour	t added by this ch	ange order:	(\$55,892.02)
Typed/Printed Name Typed/Printed Title Acoust Mayage	ido ec				
RECOMMENDED FOR EXECUTION:					
Project Manager Dat	<u>20</u> (County Commis		1 Date
	-		County Commis	sioner Precinct	2 Date
N/A Design Engineer Dat	-		APPROVED		UEST APPROVAL
Program Ma Jager Dat			County Commiss		3 Date UEST APPROVAL
esign Engineer's Seal:	-		County Commiss		4 Date
)	X A	County PPROVED	Judge	Date

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 3	3
CHANGE ORDER NUMBER.	,

Project # Great Oaks WL Relocation

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-LINE	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
400-6008	CUT & RESTORE ASPH PAVING	SY	\$95.00	100.00	\$9,500.00	(18.00)	82.00	\$7,790.00	(\$1,710.00)
506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	\$3.50	1,800.00	\$6,300.00	(300.00)	1,500.00	\$5,250.00	(\$1,050.00)
506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	\$1.50	1,800.00	\$2,700.00	(1,400.00)	400.00	\$600.00	(\$2,100.00)
501-W-9	JACKING OR BORING, 24" STEEL PIPE, ASTM A134	LF	\$375.00	228.00	\$85,500.00	5.00	233.00	\$87,375.00	\$1,875.00
505-W-11	ENCASEMENT PIPE 24" DIA., STEEL (3/8" THICK WITH END SEALS & CASING SPACERS)	LF	\$130.00	285.00	\$37,050.00	(6.00)	279.00	\$36,270.00	(\$780.00)
510-W-16	PIPE, 6" DIA., DI CL-350 (ALL DEPTHS), INCLUDING RESTRAINED JOINTS, EXCAVATION, BACKFILL, AND TEMPORARY AND PERMANENT PAVEMENT AND CONCRETE REPAIRS	LF	\$75.00	603.00	\$45,225.00	(218.00)	385.00	\$28,875.00	(\$16,350.00)
510-W-17	PIPE, 12" DIA., DI CL-350 (ALL DEPTHS), INCLUDING RESTRAINED JOINTS, EXCAVATION, BACKFILL, AND TEMPORARY AND PERMANENT PAVEMENT AND CONCRETE REPAIRS	LF	\$115.00	839.00	\$96,485.00	36.43	875.43	\$100,674.45	\$4,189.45
510-W-18	PIPE,12"DIA., PVC C-900 (ALL DEPTHS), INCLUDING RESTRAINED JOINTS, EXCAVATION, BACKFILL, AND TEMPORARY AND PERMANENT PAVEMENT AND CONCRETE REPAIRS.	LF	\$90.00	878.00	\$79,020.00	40.00	918.00	\$82,620.00	\$3,600.00
510-W-19	PIPE,24"DIA., DI CL-250 (ALL DEPTHS), INCLUDING RESTRIANED JOINTS, EXCAVATION, BACKFILL, AND TEMPORARY AND PERMANENT PAVEMENT AND CONCRETE REPAIRS	LF	\$210.00	851.00	\$178,710.00	40.00	891.00	\$187,110.00	\$8,400.00
510-W-22	WET CONNECTION, 12" DIA X 12" DIA	EA	\$8,000.00	7.00	\$56,000.00	(1.00)	6.00	\$48,000.00	(\$8,000.00)
511-30	VALVE, GATE VALVE 6"	EA	\$4,300.00	7.00	\$30,100.00	(2.00)	5.00	\$21,500.00	(\$8,600.00)
511-W-32	VALVE, GATE VALVE 12"	EA	\$7,000.00	6.00	\$42,000.00	(2.00)		\$28,000.00	(\$14,000.00)
511-33	VALVE, GATE VALVE 24"	EA	\$25,000.00	3.00	\$75,000.00	(1.00)	2.00	\$50,000.00	(\$25,000.00)
511-34	FIRE HYDRANT ASSEMBLY	EA	\$5,000.00	4.00	\$20,000.00	(2.00)	2.00	\$10,000.00	(\$10,000.00)
	TOTALS				\$763,590.00			\$694,064.45	(\$69,525.55)

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER:	3

Project # Great Oaks WL Relocation

TABLE B: Contract Items (Continued)

	ORIGINAL + PREVIOUSLY REVISED ADD or (DEDUC		ADD or (DEDUCT)		NEW				
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
752-6005	TREE REMOVAL (4" - 12"DIA)	EA	\$2,000.00	2.00	\$4,000.00	2.00	4.00	\$8,000.00	\$4,000.00
752-6007	TREE REMOVAL (18" - 24"DIA)	EA	\$5,000.00	2.00	\$10,000.00	6.00	8.00	\$40,000.00	\$30,000.00
502-WCO1	WATER BARRIERS AT BORE PIT	LS	\$5,371.38	0.00	\$0.00	1.00	1.00	\$5,371.38	\$5,371.38
506-WC01	ROCK FILTER DAMS (INSTALL)(TY I)	LS	\$1,953.69	0.00	\$0.00	1.00	1.00	\$1,953.69	\$1,953.69
	ENCASEMENT OF FERN BLUFF WATERLINE AT EXISTING WASTEWATER LINE CROSSING	LS	\$6,959.50	0.00	\$0.00	1.00	1.00	\$6,959.50	\$6,959.50
999-WC01	FORCE ACCOUNT	DOL	\$1.00	25,000.00	\$25,000.00	(25,000.00)	0.00	\$0.00	(\$25,000.00
999-WC03	BCMUD 8" WL FOR MAINTENANCE YARD	LS	\$10,469.26	0.00	\$0.00	1.00	1.00	\$10,469.26	\$10,469.26
999-WC04	STAINLESS STEEL BELL JOINT RESTRAINTS	LS	\$7,585.79	0.00	\$0.00	1.00	1.00	\$7,585.79	\$7,585.79
999-WC05	FERN BLUFF STANDBY	LS	\$3,845.56	0.00	\$0.00	1.00	1.00	\$3,845.56	\$3,845.56
999-WC06	EXTEND 24" ENCASEMENT	LS	\$6,094.63	0.00	\$0.00	1.00	1.00	\$6,094.63	\$6,094.63
999-WC07	LIQUIDATED DAMAGES	DAY	\$935.00	0.00	\$0.00	(56.00)	-56.00	(\$52,360.00)	(\$52,360.00
						, ,		,	
500-WC01	FERN BLUFF MOBILIZATION	LS	\$5,300.00	0.00	\$0.00	1.00	1.00	\$5,300.00	\$5,300.00
502-WC02	FERN BLUFF BARRICADES	LS	\$3,125.00	0.00	\$0.00	1.00	1.00	\$3,125.00	\$3,125.00
104-WC01	FERN BLUFF REMOVE SIDEWALKS	SF	\$6.00	0.00	\$0.00	100.00	100.00	\$600.00	\$600.00
	FERN BLUFF SIDEWALKS (4")	SF	\$8.00	0.00	\$0.00	100.00	100.00	\$800.00	\$800.00
	FERN BLUFF BELL JOINT RESTRAINTS	LS	\$1,388.72	0.00	\$0.00	1.00	1.00	\$1,388.72	\$1,388.72
999-WC09	FERN BLUFF FLUSH AND CHLORINATE WATERLINE	LS	\$3,500.00	0.00	\$0.00	1.00	1.00	\$3,500.00	\$3,500.00
		<u> </u>							
		-							1
		-							1
		-							
		1							
		-							
	The "Totals" from Table B of the prev	ioue werk	choot		\$762 500 00			\$604.064.4E	(\$69,525.55
	·	ious work	sneet:		\$763,590.00			\$694,064.45	, · ,
	TOTALS				\$802,590.00			\$746,697.98	(\$55,892.02

CHANGE ORDER REASON(S) CODE CHART

Design Error or Omission	1A. Incorrect PS&E 1B. Other
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

Great Oaks Water Line Relocation Williamson County Project No. 3185

Change Order No. 3

Reason for Change

This Change Order provides the final balancing for the overrun/underrun of Contract quantities on the project, as a result of addressing field conditions not accounted for in the original plans. This Change Order adds items to the Contract for the Fern Bluff MUD 12-inch water line connections made after Substantial Completion was achieved for the rest of the project. This Change Order also corrects various item quantities to match the work shown in the plans and installed in the field and adds Item 999-WC07 to assess liquidated damages on the Contractor.

Fern Bluff MUD was not able to shut off the flow of water in the water line during the project. After further investigation of the water line system, the Fern Bluff MUD found a way to turn off the water supply so that the connections to the new water line could be made. The Contractor agreed to re-mobilize back to the project to complete this work. Additional items were added to the contract to pay the contractor for this work.

The Contractor will be assessed 56 days of liquidated damages because they did not achieve Substantial Completion of the project within the planned contract duration. There were no changes to the contract that would justify additional time.

The following summarizes the new Contract item required for this Change Order.

ITEM-LINE	DESCRIPTION	QTY	UNIT
502-WC01	WATER BARRIERS AT BORE PIT	1.00	LS
506-WC01	ROCK FILTER DAMS (INSTALL) (TY I)	1.00	LS
510-W-45	ENCASEMENT OF FERN BLUFF WATER LINE AT EXISTING WASTEWATER LINE CROSSING	1.00	LS
999-WC03	BCMUD 8" WL FOR MAINTENANCE YARD	1.00	LS
999-WC04	STAINLESS STEEL BELL JOINT RESTRAINTS	1.00	LS
999-WC05	FERN BLUFF STANDBY	1.00	LS
999-WC06	EXTEND 24" ENCASEMENT	1.00	LS
999-WC07	LIQUIDATED DAMAGES	(56.00)	DAY
500-WC01	FERN BLUFF MOBILIZATION	1.00	LS
502-WC02	FERN BLUFF BARRICADES	1.00	LS

ITEM-LINE	DESCRIPTION	QTY	UNIT
104-WC01	FERN BLUFF REMOVE SIDEWALKS	100.00	SF
531-WC01	FERN BLUFF SIDEWALKS (4")	100.00	SF
999-WC08	FERN BLUFF BELL JOINT RESTRAINTS	1.00	LS
999-WC09	FERN BLUFF FLUSH AND CHLORINATE WL	1.00	LS

<u>Item 502-WC01 Water Barriers at Bore Pit</u> – Water filled barriers were added along Brushy Creek Road at the bore pit to protect traffic from the excavated open hole that was located within the clear zone.

<u>Item 506-WC01 Rock Filter Dams (Install) (Ty I)</u> - Added for use in ditch lines to prevent sediment from entering Brushy Creek.

<u>Item 510-W-45 Encasement at Wastewater Line Crossing</u> – The Fern Bluff 12-inch water line crossed an existing gas line. An encasement was added to the water line to provide the necessary protection between the lines.

<u>Item 999-WC03 BCMUD 8" Waterline for Maintenance Yard</u> – Due to the changes to the water lines on the project, the 8-inch water line within the BCMUD Maintenance Yard had to be relocated to connect to the new water line.

<u>Item 999-WC04 Stainless Steel Bell Joint Restraints</u> - The Designer required stainless steel bell joint restraints on the Fern Bluff 12-inch water line. The Contractor's bid did not include the cost for stainless steel materials and provided justification from other projects that indicated that the City of Round Rock does not require stainless steel bell joint restraints. This Change Order pays the difference in the cost of the materials only.

Item 999-WC05 Fern Bluff Standby – The Contractor incurred standby costs when Fern Bluff MUD was unable to shutout the flow of water in their lines at the scheduled time for the water line connection. Contractor crews and equipment waited to give Fern Bluff a chance to turn the water off. Payment of the standby costs is according to Item 4.6 Scope of Work and Item 9.7 Measurement and Payment in the TxDOT Standard Specifications.

<u>Item 999-WC06 Extend Encasement pipe</u> – The 24-inch encasement pipe for the 12-inch Fern Bluff water line was extended 76 feet. The plans called for a bore with no encasement pipe in this portion. Adding encasement pipe to this portion will facilitate any maintenance required in the future.

<u>Item 500-WC01 Fern Bluff Mobilization</u> – Pays the Contractor to re-mobilize back to the project after achieving Substantial Completion on the rest of the project.

<u>Item 502-WC02 Fern Bluff Barricades</u> – Pays the Contractor for barricades and traffic control devices used for lane closures during the water line connection work.

<u>Item 105-WC01 Fern Bluff Remove Sidewalk</u> – Pays the Contractor to remove sidewalk at the location of the Fern Bluff water line connection.

<u>Item 531-WC01 Fern Bluff Sidewalks (4")</u> – Pays the Contractor to replace sidewalk that had to be removed to make the Fern Bluff water line connection.

<u>Item 999-WC08 Fern Bluff Bell Joint Restraints</u> – Due to the possibility that water pressure will remain in the abandoned water line, caps and joint restraints will be installed on the ends of the abandoned water line, near the water line connections.

<u>Item 999-WC09 Fern Bluff Flush and Chlorinate Water Line</u> – The new water line will be flushed and re-chlorinated because it has been unused for three months prior to the new water line connections.

This Change Order results in a net decrease of \$55,892.02 from the Contract amount, for an adjusted Contract total of \$1,440,027.82. The original Contract amount was \$1,325,000.00. As a result of this and all Change Orders to-date, \$115,037.82 has been added to the Contract, resulting in an 8.68% net increase in the Contract cost. No (0) time will be added to the Contract for this Change Order.

HNTB Corporation

James Klotz, P.E.



Austin, TX 78724 Phone: 512-637-6120 **Change Order No.4**

10/2/2020

Project: Great Oaks Drive Waterline Relocations

Owner: Williamson County

			ation
ĸe-	IVIO	JIIIZ	auon

ITEM#	DESCRIPTION	UNIT	Qty	+	UNIT PRICE	Т	TOTAL PRICE
1	Bid Item #4 - Mobilization	EA	4%	\$	132,500.00	\$	5,300.00
	Total Cost for Additiona	MOBILIZATION	10.00	-0.70	maria (1	\$	5,300.00

500-WCO2 NEW

BARRICADES, SIGNS, AND TRAFFIC HANDLING

ITEM #	DESCRIPTION	UNIT	Qty	1	JNIT PRICE		TOTAL PRICE
2	Bid Item #5 - BARRICADES, SIGNS, AND TRAFFIC HANDLING	Month	0.25	\$	12,500.00	\$	3,125.00
	Total Cost for	Additional BARRICADES	CICNE AND	TDACE	IC HANDLING	¢	3.125.00

502-WC02 NEW

Remove & Replace Sidewalks

ITEM #	DESCRIPTION	UNIT	Qty	UNI	T PRICE	TOTAL PRICE
3	Remove & Haul-off Existing Concrete Sidewalks (20' x 5' x 4"H)	SF	100.00	\$	6.00	\$ 600.00
	Cast in Place Concrete Sidewalks (20' x 5' x 4"H)	SF SF	100.00	\$	8.00	\$ 800.00
		Total Cost for Addition	nal Remove	& Replace	Sidewalks	\$ 1,400.0

105-WC01 531-WC01 NEW

PIPE, 12" DIA., PVC C-900 (ALL DEPTHS),

ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	1	TOTAL PRICE
4	PIPE, 12" DIA., PVC C-900 (ALL DEPTHS),	LF	40.00	\$ 90.00	\$	3,600.0
	To	tal Cost for Additional PIPE, 1	2" DIA PVC	C-900 (ALL DEPTHS)	Ś	3,600.0

EXIST

BELL RESTRAINT - 304 SS Hardware

BID ITEM #	DESCRIPTION	UNIT	Qty	UN	IIT PRICE	TOTAL PRICE
	12 JT REST RED 304 SS HARDWARE, 304 SS HARDWARE BLK COLOR - Material	EA	4	\$	201.88	\$ 807.52
5	No- SS Hardware bell joint restraints - Credit	EA	4	\$	(57.00)	\$ (228.00
	SPLIT RESTRAINT 12 JT REST BLK 304 SS HARDWARE- Material	EA	4	\$	202.30	\$ 809.20
	Total Cost fo	r Additional BE	LL RESTRAI	VT - 304	SS Hardware	\$ 1,388.72

999-WC09 NEW

Re-flush & Clorination 12" Waterlin

ITEM#	DESCRIPTION	UNIT	Qty	U	NIT PRICE	TOTAL PRICE
6	Re-flush & Clorination 12" Waterline	Ea	1.00	\$	3,500.00	\$ 3,500.00
	Tota	I Cost for Additional Re-fi	ush & Clori	nation 1	2" Waterline	\$ 3,500.00

999-WCID NEW

WET CONNECTIONS, 12" DIA. X 12" DIA. (Item Removed in CO No.3)

BID ITEM#	DESCRIPTION	UNIT	Qty	L	INIT PRICE	TOTAL PRICE
7	Bid Item #22 - WET CONNECTIONS, 12" DIA. X 12" DIA.	EA	2	\$	8,000.00	\$ 16,000.0
		Total Cost for WET Co	ONNECTION	S, 12" E	DIA. X 12" DIA	\$ 16,000.00

EXIST

SEEDING FOR EROSION CONTROL (TEMP & COOL)(TY 4)

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT	PRICE	TOTAL PRICE
8	Bid Item #2 - SEEDING FOR EROSION CONTROL (TEMP & COOL)(TY 4)	SY	1500	\$	1.00	1,500.00
	Total Cost for SEE	DING FOR EROSION	CONTROL	TEMP & CO	OOL)(TY 4)	1,500.00

FLIST

Breakdown:			
1	Re- Mobilization		\$ 5,300.00
2	BARRICADES, SIGNS, AND TRAFFIC HANDLING		\$ 3,125.00
3	Remove & Replace Sidewalks		\$ 1,400.00
4	PIPE, 12" DIA., PVC C-900 (ALL DEPTHS),		\$ 3,600.00
5	BELL RESTRAINT - 304 SS Hardware		\$ 1,388.72
6	Re-flush & Clorination 12" Waterline		\$ 3,500.00
7	WET CONNECTIONS, 12" DIA. X 12" DIA. (item Removed in CO No.3)		\$ 16,000.00
8	SEEDING FOR EROSION CONTROL (TEMP & COOL)(TY 4)		\$ 1,500.00
-	,	Total Additional Cost	\$ 35,813.72

	10/2/2020
ose Ruiz/ Project Estimator - QA Construction Services Inc.	Date
pproved by:	
Construction Observer: Clayton Weber, HNTB	Date
rogram Manager: Michael Weaver, Prime Strategies	Date
Senior Director of Infrastructure: Robert B. Daigh, Williamson County	Date



Austin, TX 78724 Phone: 512-637-6120 **Additional Work**

8/13/2020

1tem 502. Wco1

Project: Great Oaks Drive Waterline Relocations

Owner: Williamson County

RO	CK	RE	DA	21

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	1250	TOTAL PRICE
	Rock Berm - Material	TN	16	\$ 25.00	\$	400.00
	Wire Mesh - Material	Roll	1	\$ 25.00	\$	25.0
	Trucking Delivery - Equipment	HR	1	\$ 150.00	\$	150.0
N/A	Skitsteer - Equipment	HR	4	\$ 85.00	\$	340.0
	Labor - Foreman	HR	4	\$ 55.38	\$	221.5
	Labor - Operator	HR	4	\$ 23.00	\$	92.00
	Labor - Pipe Layer	HR	4	\$ 22.00	\$	88.00
	Labor - General Labor	HR	4	\$ 22.00	\$	88.0
			Total Cost	(Material & Labor)	\$	1,404.5
			Cost	Overhead		
	Total Material Cost	\$	425.00	0%	\$	-
	Equipment	\$	490.00	55%	\$	269.5
	Labor	\$	489.52	55%	\$	269.24
				Overhead Cost	\$	538.74
		Subtota	Ĺ		\$	1,943.2
		Mark-up)	15%	\$	291.4
	Insurance	e & Bond	Adjustments	1.5%	\$	33.5
			Total (Cost for Rock Berm	\$	2,268.27

Traffic Control

BID ITEM#	DESCRIPTION	UNIT	Qty	L	JNIT PRICE	439	TOTAL PRICE
N/A	Traffic Control Plan	EA	1	\$	1.800.00	\$	1,800.0
	Traffic Control Implementation	Month	2	\$	4,200.00	\$	8,400.0
	Remove Signs	EA	1	\$	600.00	\$	600.0
		To	tal Cost o	f Traffic	Control Plan	\$	10,800.0

Water Barrier Rental & Installation

BID ITEM#	DESCRIPTION	UNIT	Qty	U	INIT PRICE	TOTAL PRICE
N/A	BARRIER WALL 6' PLASTIC WATER FILL (Month 1)	LF	126	\$	21.00	\$ 2,646.00
	BARRIER WALL 6' PLASTIC WATER FILL (Month 2)	LF	126	\$	21.00	\$ 2,646.00
		Total Cost for Wa	ter Barrier	Rental	& Installation	\$ 5,292.00

BELL RESTF					
BID ITEM		Qty	UNIT PRICE		TOTAL PRICE
		46	\$ 201.88	\$	9,286,48
		46	\$ (57.00)	\$	(2,622,00)
		4	\$ 202.30	_	809 20
	Lance Paracol	10	\$ 55.38	\$	553.80
N/A	WATER BARRIERS	10	\$ 28.00	\$	280.00
		10	\$ 22.00	\$	220.00
	\$ 5292.00 x 1.015 BOND MARKUP	10	\$ 22.00	\$	220.00
	# 1212.00 / (1.01)	10	\$ 22.00	\$	220.00
-		Total Cost	(Material & Labor)	\$	8,967.48
Lead Time:	- # 5371.38				
Time Loss: :		ost	Overhead		
		10,095.68	0%	\$	-
		-	55%	\$	-
	Labor 5	1,493.80	55%	\$	821.59
			Overhead Cost	\$	821.59
	Subto	tal		\$	9,789.07
	Mark	up	15%	\$	1 468.36
	Insurance & Bor	nd Adjustments	1.5%	\$	168.86
AND SECTION	Total Cost for I	BELL RESTRAINT	- 304 SS Hardware	\$	11,426.29

Breakdown:

1 -	ROCK BERMS
7.50	72. 32. 3

2 - Traffic Control
3 - Water Barrier Rental & Installation

4 - BELL RESTRAINT - 304 SS Hardware

\$ 2,268.27
\$ 10,800.00
\$ 5,292.00
\$ 11,426.29
1.5

29,786.56

Total Cost for Change Order No.4 \$



Austin, TX 78724 Phone: 512-637-6120

ITEM 506-WCOI

8/13/2020

Additional Work

Project: Great Oaks Drive Waterline Relocations

Owner: Williamson County

ROCK BERMS						
BID ITEM#	DESCRIPTION	UNIT	Qty	UNIT PRICE	1	OTAL PRICE
	Rock Berm - Material	TN	16	\$ 25.00		
	Wire Mesh - Material	Roll	1	\$ 25.00		400.00
	Trucking Delivery - Equipment	HR	1	\$ 150.00		25.00
N/A	Skitsteer - Equipment	HR	4		-	150.00
	Labor - Foreman	HR	4			340.00
	Labor - Operator	HR	4	\$ 55.38		221.52
	Labor - Pipe Layer	HR		\$ 23.00		92.00
	Labor - General Labor	HR	4	\$ 22.00		88.00
		HK	4	\$ 22.00		88.00
			Total Cost	(Material & Labor)	\$	1,404.52
	300 S0000 - 12 - 1		Cost	Overhead		
	Total Material Cost	\$	425.00	0%	\$	
	Equipment	\$	490.00	55%	\$	269.50
	Labor	\$	489.52	55%	\$	269.24
				Overhead Cost	\$	538.74
		Subtotal			\$	1,943.26
		Mark-up		15%	\$	291.49
	Insurance	& Bond	Adjustments	1.5%	\$	33.52
			Total C	Cost for Rock Berm	\$	2,268.27

Traffic Control		
BID ITEM#	DESCRIPTION	ROCK FILTER DAMS (INSTALL)
N/A	Traffic Control Plan Traffic Control Implementation Remove Signs	ROCK BERMS
Water Barrier R	ental & Installation	MATERIALS \$425.00
BID ITEM#	DESCRIPTION	x 1.15 Markup
N/A	BARRIER WALL 6' PLASTIC WATER FILL (Month 1) BARRIER WALL 6' PLASTIC WATER FILL (Month 2)	\$488.75
	- 304 SS Hardware	
BID ITEM #	DESCRIPTION 12 JT REST RED 304 SS HARDWARE, 304 SS HARDWARE BLK No- SS Hardware bell joint restraints - Credit SPLIT RESTRAINT 12 JT REST BLK 304 SS HARDWARE-Mater	EQUIPMENT \$ 490.00
N/A	Labor - Foreman Labor - Operator Labor - Pipe Layer	X 1.15 Markup
	Labor - General Labor #1 Labor - General Labor #2	\$ 563.50
ead Time: 10 Da	· · ·	
		LABOR \$ 489.52
		× 1.95
		758.76
		The state of the s

Breakdown:

- 1 -**ROCK BERMS**
- Traffic Control 2 -
- 3 -Water Barrier Rental & Installation
- **BELL RESTRAINT 304 SS Hardware**

x 1.15 \$1 872.57

488.75 + 563.50 + 872.57= 1924.82

\$ 1924.82 × 1.015

ENCASE	12"	FBM	WL	
MATERIA	15-	ENCAS	EMENT PIPE	
	-	END	SEALS	
	-	CASINI	4 SPACERS	

- END SEALS	2 EA	78.02	156.04
- CASING SPACERS	2 EA	102.37	204.74
EQUIPMENT - ERUCKING	4 HR	125.00	500.00
- EXCAVATOR	2 DAY	650.00	1300.00
- LOADER	2 DAY	675.00	1350.06
LABOR - FOREMAN	6 HR	55.38	332.28
- OPERATOR	6 HR	28.00	168.00
- OPERATOR	6 HR	26.00	156.00
- PIPE LAYER	6 HR	22,06	132.00
- GEN. LABOR	6 HR	22:06	132.00
-GEN. LABOR	6 HK	22.00	132.00

10 LF 85.00 850.00

MATERIALS	1210.78	X	1.15	2	1392.40
EQUIPMENT	3150.00	X	1.15	=	3622,50
LABOR	1052.28	*	1.55 = 1124.86x 1.15	5	1875.69
			T6T,	46 =	6890.59

6890.59 X 1.01 BOND = \$ 6959.50

CHANGE ORDER #4

Thursday, March 19, 2020

JOB NAME: Brushy Creek MUD - Maintenance Yard

JOB NO: 1936

Description of work: 8" Water line extened to final tie-in location, Approx 120 LF

COSTITEM	DESCRIPTION	<u>UNIT</u>	QUANTITY	<u>UN</u>	IT PRICE	TOTALS
Material non-quoted		LS	0	\$	-	\$ -
Material quoted	pipe,fittings,etc.	LS	1	\$	2,392.00	\$ 2,392.00
Material total						\$ 2,392.00
FOREMAN		HRS	8.00	\$	26.00	\$ 208.00
EQUIPMENT OP		HRS	8.00	\$	22.00	\$ 176.00
EQUIPMENT OP		HRS	8.00	\$	22.00	\$ 176.00
PIPE LAYER-LABOR		HRS	8.00	\$	19.00	\$ 152.00
PIPE LAYER-LABOR		HRS	8.00	\$	19.00	\$ 152.00
Labor subtotal			0 1000-00			\$ 864.00
Labor burden						\$ 276.48
Labor total						\$ 1,140.48
Equipment (hourly)	trailer	HRS		\$	2.50	\$ - 1
	skidsteer	HRS		\$	35.00	\$ -
	backhoe	HRS	8	\$	40.00	\$ 320.00
	breaker	HRS		\$	45.00	\$ -
	excavator	HRS	4	\$	80.00	\$ 320.00
	breaker	HRS		\$	105.00	\$ -
	loader	HRS		\$	75.00	\$ -
Trucking (f.o.b. jobsite)	equip move	LS		\$	275.00	\$ -
	spoils removal	CY	25	\$	6.00	\$ 150.00
Prime cost subtotal						\$ 4,322.48
Contingencies						\$
Prime cost total						\$ 4,322.48
Bid Subtotal						\$ 4,322.48
Operations and margin 15%						\$ 648.37
Prime Bid						\$ 4,970.85
Sales tax (exempt)						\$ -
Bonds/ permits						\$ -
Grand total						\$ 4,971.00

PAYMENT SUMMARY

CHANGE ORDER #4B

Wednesday, March 11, 2020

JOB NAME: Brushy Creek MUD - Maintenance Yard

JOB NO: 1936

Description of work: 3/10/2020 Potholing existing utilty lines (5) to provide info for route to

extend 8" Water line extened to final tie-in location

COST ITEM	DESCRIPTION	UNIT	QUANTITY	UN	IT PRICE	TOTALS
Material non-quoted		LS	0	\$	-	\$ -
Material quoted	pipe,fittings,etc.	LS				\$ -
Material total						\$
FOREMAN		HRS	10.00	\$	26.00	\$ 260.00
EQUIPMENT OP		HRS	10.00	\$	22.00	\$ 220.00
EQUIPMENT OP		HRS	10.00	\$	22.00	\$ 220.00
PIPE LAYER-LABOR		HRS	10.00	\$	19.00	\$ 190.00
PIPE LAYER-LABOR		HRS	10.00	\$	19.00	\$ 190.00
Labor subtotal				,		\$ 1,080.00
Labor burden						\$ 345.60
<u>Labor total</u>						\$ 1,425.60
Equipment (hourly)	trailer	HRS		\$	2.50	\$
	skidsteer	HRS		\$	35.00	\$ _
	mini excavator	HRS	8	\$	40.00	\$ 320.00
	breaker	HRS		\$	45.00	\$ _
	excavator	HRS		\$	80.00	\$ -
	breaker	HRS	N 40	\$	105.00	\$ -
	loader	HRS		\$	75.00	\$ -
Trucking (f.o.b. jobsite)	equip move	LS		\$	275.00	\$ -
	spoils removal	CY		\$	6.00	\$ _
Prime cost subtotal						\$ 1,745.60
Contingencies						\$ -
Prime cost total						\$ 1,745.60
Bid Subtotal				0		\$ 1,745.60
Operations and margin 15%						\$ 261.84
Prime Bid					The Action	\$ 2,007.44
Sales tax (exempt)						\$ -
Bonds/ permits						\$ -
Grand total		No.				\$ 2,007.00

CHANGE ORDER #4C

Thursday, April 23, 2020

JOB NAME: Brushy Creek MUD - Maintenance Yard

JOB NO: 1936

<u>Description of work:</u> Remove and lower section of 8" Water line near existing utilities to avoid dry utilities as per BCMUD and Wilco engineering, No plans available or direction provided previously

COST ITEM	DESCRIPTION	<u>UNIT</u>	QUANTITY	UN	IT PRICE	TOTALS
Material non-quoted		LS	0	\$	-	\$ -
Material quoted	pipe,fittings,etc.	LS	1	\$	546.00	\$ 546.00
Material total						\$ 546.00
FOREMAN		HRS	8.00	\$	26.00	\$ 208.00
EQUIPMENT OP		HRS	8.00	\$	22.00	\$ 176.00
EQUIPMENT OP		HRS	8.00	\$	22.00	\$ 176.00
PIPE LAYER-LABOR		HRS	8.00	\$	19.00	\$ 152.00
PIPE LAYER-LABOR		HRS	8.00	\$	19.00	\$ 152.00
LABOR		HRS	8.00	\$	18.00	\$ 144.00
Labor subtotal						\$ 1,008.00
Labor burden						\$ 322.56
<u>Labor total</u>			Election St.			\$ 1,330.56
Equipment (hourly)	trailer	HRS		\$	2.50	\$ _
	skidsteer	HRS		\$	35.00	\$ _
	backhoe	HRS	8	\$	40.00	\$ 320.00
	mini-ex	HRS	8	\$	40.00	\$ 320.00
Trucking (f.o.b. jobsite)	equip move	LS		\$	275.00	\$ -
	spoils removal	CY		\$	6.00	\$ -
Prime cost subtotal						\$ 2,516.56
Contingencies						\$ -
Prime cost total						\$ 2,516.56
Bid Subtotal						\$ 2,516.56
Operations and margin 15%						\$ 377.48
Prime Bid						\$ 2,894.04
Sales tax (exempt)						\$ -
Bonds/ permits						\$ -
Grand total					The second	\$ 2,894.00



Phone: 512-637-6120

Additional Work

8/13/2020

Project: Great Oaks Drive Waterline Relocations Owner: Williamson County **ROCK BERMS** TOTAL PRICE RICE BID ITEM# 400.00 25.00 \$ Rock Berm - Mat 25.00 25.00 BELL JOINT RESTRAINTS Wire Mesh - Ma 150.00 150.00 Trucking Delivery 85.00 340.00 Skitsteer - Equip N/A 221.52 55.38 Labor - Foreman 92.00 23.00 \$ Labor - Operator 22.00 \$ 88.00 Labor - Pipe Laye \$ 9286.48 RESTRAINTS 22.00 \$ 88.00 55 Labor - General L 1,404.52 & Labor) \$ ead 809.20 55 HARDWARE 269.50 269.24 \$ 10095.68 ad Cost 538.74 1,943.26 291.49 33.52 ALLOY RESTRAINSS (\$ 2622.00) 2,268.27 ck Berm \$ Traffic Control TOTAL PRICE CREDIT RICE BID ITEM # COST DIFFERENCE \$ 7473.68 ,800.00 1,800.00 Traffic Control Pla N/A ,200.00 \$ 8,400.00 Traffic Control Im 600.00 600.00 Remove Signs 10,800.00 rol Plan 1.015 BOND Water Barrier Rental & Installation TOTAL PRICE / RICE # 7585.79 BID ITEM # 2,646.00 21.00 \$ N/A BARRIER WALL 6' 21.00 \$ 2,646.00 BARRIER WALL 6' 5,292.00 allation \$

	- 304 SS Hardware DESCRIPTION	UNIT	Qty	UNIT PRICE	1520	TOTAL PRICE
BID ITEM #	DESCRIPTION DESCRIPTION Approximation of the power of t	EA	46	\$ 201.88	\$	9,286.4
	12 JT REST RED 304 SS HARDWARE, 304 SS HARDWARE BLK COLOR - Material	EA	46	\$ (57.00)	\$	(2,622.0
	No- SS Hardware bell joint restraints - Credit	EA	4	\$ 202.30	\$	809.2
	SPLIT RESTRAINT 12 JT REST BLK 304 SS HARDWARE- Material	HR	10	\$ 55.38	Ś	553.8
	Labor - Foreman	HR	10	\$ 28.00	Ś	280.0
N/A	Labor - Operator	HR	10	\$ 22.00	Ś	220.0
	Labor - Pipe Layer	HR	10	\$ 22.00	3	220.0
	Labor - General Labor #1		10	\$ 22.00	5	220.0
	Labor - General Labor #2	HR		(Material & Labor)	4	8,967.4
nd Time: 10 I ne Loss: 10 E			Cost	Overhead		
	Davs			00/	I A	
	Total Material Cost		10,095.68	0%	\$	
	Total Material Cost Equipment	\$	-	55%	\$	- - 921
	Total Material Cost	\$	1,493.80	55% 55%	\$	821.
	Total Material Cost Equipment	\$	-	55%	\$	-
	Total Material Cost Equipment	\$	-	55% 55%	\$	821. 821.
	Total Material Cost Equipment	\$	1,493.80	55% 55%	\$	821. 821. 9,789
	Total Material Cost Equipment	\$	1,493.80	55% 55%	\$	9,789 1,468
	Total Material Cost Equipment Labor	Subtot Mark-uce & Bone	1,493.80 al	55% 55% Overhead Cost	\$ \$	821. 821. 9,789

Breakdown:

- **ROCK BERMS** 1 -
- 2 -Traffic Control
- Water Barrier Rental & Installation 3 -
- **BELL RESTRAINT 304 SS Hardware** 4 -

\$ 2,268.27
\$ 10,800.00
\$ 5,292.00

11,426.29

29,786.56 Total Cost for Change Order No.4 \$



999-WC05

8/13/2020

QA Construction Services Inc. 5811 Blue Bluff Road

Austin, TX 78724 Phone: 512-637-6120

Time Loss Cost Impact

Project: Great Oaks Drive Waterline Relocations Owner: Williamson County

Time Loss Cost Impact

Date		FERN BLUFF STANPI		7		TOTAL PRICE
	Day #1					TOTALTRICE
5/19/2020	Supervision					32
	Crew #1 (Manuel Guerrero)					
	Labor - Foreman	1.2.2 H . 2.	20.			27
	Labor - Operator	LABOR \$ 171	5.80			14
	Labor - Pipe Layer					11
	Labor - General Labor #1		1.35	MAPL	110	11
	Labor - General Labor #2		1.75	MAN	V	11
	Labor - General Labor #3					11
	Crew #2 (Lucas Villareal)	\$ 23	13 6	3		
	Labor - Foreman	D 2 /	12,0			27
	Labor - Operator		A SAME			14
	Labor - Pipe Layer					11
	Labor - General Labor #1					11
	Labor - General Labor #2	H _				11
	Labor - General Labor #3	EQUIPMENT \$ 72	5.00			11
	Excavator Rental Time Loss	Cartificati				75
	Wheel Loader (3CY Bucket)					
	Day #2	750	5.00			72
F /20 /2020			-			20
5/20/2020	Supervision Crow #1 (Manual Guerrara)	N.				32
	Crew #1 (Manuel Guerrero)	\$ 1475	.00	NOW	MARKUL	-
	Labor - Foreman	((()	.00		.,	27
	Labor - Operator					14
	Labor - Pipe Layer					11
	Labor - General Labor #1	\$ 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				11
	Labor - General Labor #2		1270		,	11
	Labor - General Labor #3	2313.63 + 1475.00 = \$	15/8	8.63		11
	Crew #2 (Lucas Villareal)					
	Labor - Foreman		_H	300	- 111	27
	Labor - Operator	3788.63 × 1.015BON	D SDI	5849	5.46	14
	Labor - Pipe Layer					11
	Labor - General Labor #1					11
	Labor - General Labor #2					11
	Labor - General Labor #3					- 11
	Excavator Rental Time Loss	PAY = \$ 3845	111			75
	Wheel Loader (3CY Bucket)	PAT = 1 3847	. 46			72
	Day #3					
6/20/2020	Supervision					32
	Crew #1 (Manuel Guerrero)					
	Labor - Foreman				****	27
	Labor - Operator					14
	Labor - Pipe Layer					11
	Labor - General Labor #1					11
	Labor - General Labor #2					11
	Labor - General Labor #3	į HR	1 5	15	22.00 \$	11
	Crew #2 (Lucas Villareal)	711		1.7		
	Labor - Foreman	HR	5	\$	55.38 \$	27
	Labor - Operator	HR	5	\$	28.00 \$	14
				\$	22.00 \$	11
		HR				
	Labor - Pipe Layer	HR HR	5	_	22.00 \$	11
	Labor - Pipe Layer Labor - General Labor #1	HR	5	\$	22.00 \$	
	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2	HR HR	5	\$	22.00 \$	11
	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3	HR HR HR	5 5 5	\$ \$	22.00 \$ 22.00 \$	11 11
	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss	HR HR HR Day	5 5 5	\$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$	11 11 75
	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket)	HR HR HR	5 5 5	\$ \$	22.00 \$ 22.00 \$	11 11 75
5/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4	HR HR HR Day	5 5 5 1	\$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$	11 11 75 72
6/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision	HR HR HR Day	5 5 5	\$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$	11 11 75 72
5/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero)	HR HR Day Day	5 5 5 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$	11 11 75 72
5/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero) Labor - Foreman	HR HR Day Day HR	5 5 5 1 1 5	\$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$ 65.00 \$	11 11 75 72 32
6/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero) Labor - Foreman Labor - Operator	HR HR Day Day HR	5 5 5 1 1 1 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$ 65.00 \$	11 11 75 72 32 27 14
5/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero) Labor - Foreman Labor - Operator Labor - Pipe Layer	HR HR Day Day HR HR	5 5 5 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$ 65.00 \$ 55.38 \$ 28.00 \$ 22.00 \$	11 11 75 72 32 27 14
6/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero) Labor - Foreman Labor - Operator Labor - Pipe Layer Labor - General Labor #1	HR HR Day Day HR HR	5 5 5 1 1 5 5 5 5 5 5 5 5 5 5 7 7 7 7 8 7 8 7 8 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$ 65.00 \$ 55.38 \$ 28.00 \$ 22.00 \$	11: 11: 11: 75: 72: 32: 27: 14: 11:
5/20/2020	Labor - Pipe Layer Labor - General Labor #1 Labor - General Labor #2 Labor - General Labor #3 Excavator Rental Time Loss Wheel Loader (3CY Bucket) Day #4 Supervision Crew #1 (Manuel Guerrero) Labor - Foreman Labor - Operator Labor - Pipe Layer	HR HR Day Day HR HR	5 5 5 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	22.00 \$ 22.00 \$ 750.00 \$ 725.00 \$ 65.00 \$ 55.38 \$ 28.00 \$ 22.00 \$	110 110 750 720 320 270 140 110

Total Cost for Time Loss with respect to shutouts for connections: Fern Bl	uff MUD S	nutouts		\$	25,429.1
insurai	ice & Bond	l Adjustments	1.5%	\$	375.8
Territoria de la Companya del Companya de la Companya del Companya de la Companya	Mark-u		15%	\$	3,267.8
	Subtot		(72%)	\$	21,785.5
	12/12/01				
me Loss: 4 Days			Overhead Cost	\$	7,730.3
	or \$	8,155.20	55%	\$	4,485.
Equipme	nt \$	5,900.00	55%	\$	3,245.
Total Material Co	st \$	-	0%	\$	-
				1	
Wheel Loader (3CY Bucket)	Day	1	\$ 725.00		725.0
Excavator Rental Time Loss	Day	1	\$ 750.00		750.
Labor - General Labor #3	HR	5	\$ 22.00		110.
Labor - General Labor #2	HR	5	\$ 22.00	1	110.
Labor - General Labor #1	HR	5	\$ 22.00	-	110.
Labor - Pipe Layer	HR	5	\$ 22.00		110.
Labor - Operator	HR	5	\$ 55.38	\$	276. 140.

Brea	kdo	wn:
------	-----	-----

1 - Time Loss Cost Impact \$ 25,429.19

Total Cost for Time Lost \$ 25,429.19

By Contractor:	
	8/13/2020
Javier Barajas/ Project Manager - QA Construction Services Inc.	Date
Approved by:	
Construction Observer: Clayton Weber, HNTB	Date
Program Manager: Michael Weaver, Prime Strategies	Date
Senior Director of Infrastructure: Robert B. Daigh, Williamson County	Date



ITEM 999-WC06

8/25/2020

HNTB Response

QA Construction Services Inc. 5811 Blue Bluff Road

Austin, TX 78724 Phone: 512-637-6120 Additional Work for Encasement 24"DIA Pipe

Project: Great Oaks Drive Waterline Relocations

Owner: Williamson County

Wilet. Williamson County

Encasement 24" Dia Pipe

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	TOTAL PRICE
	24 X .375 Steel CASING Pipe	LF	76	\$ 65.85	\$ 5,004.
N/A	12 X 24 Stainless Steel CASING SPACER W/ UHMW	EA	12	\$ 83.33	\$ 999.
	12 X 24 End Sealant	EA	2	\$ 48.89	\$ 97.
	Excavator Equipment (No Charge)	Day	0	\$ 750.00	\$ -
	Spacer & End Seals / Labor - Foreman	HR	4	\$ 55.38	\$ 221.
	Spacer & End Seals /Labor - Operator	HR	4	\$ 28.00	\$ 112.0
	Spacer & End Seals /Labor - Pipe Layer	HR	4	\$ 22.00	\$ 88.0
	Spacer & End Seals /Labor - General Labor #1	HR	4	\$ 22.00	\$ 88.
	Spacer & End Seals /Labor - General Labor #2	HR	4	\$ 22.00	\$ 88.0
			Cost	Overhead	
	Total Material Cost	\$	6,102.34	0%	\$ -
	Equipment	\$	-	55%	\$ -
	Labor	\$	597.52	55%	\$ 328.
				Overhead Cost	\$ 328.
		Subtota	ı		\$ 7,028.
		Mark-up)	15%	\$ 1,054.
	Insurance	ce & Bond	Adjustments	1.5%	\$ 121.
		Total (Cost for Encas	ement 24"DIA Pipe	\$ 8,204.

By Contractor:	
	8/25/2020
Jose Ruiz/ Project Estimator - QA Construction Services Inc.	Date
Approved by:	
Construction Observer: Clayton Weber, HNTB	Date
Program Manager: Michael Weaver, Prime Strategies	Date
Senior Director of Infrastructure: Robert B. Daigh, Williamson County	Date

steel casing pipe casing spacers	16.00 LF X\$65.85/LF 12.00 EA X \$65.33/EA	= +999.96
		=\$ 600 4.56
	1.5% BOND	+ 90.07
		\$ 6094.63



GREAT OAKS DRIVE WATERLINE RELOCATION (REVISED)

BIDTRACER MASTER BID ACCOUNT BIDS ONLY!!!

NEWPORT NEWS, VA

23609

A) WATER

08) BORING, 12" PVC

Alt	Description/ Comments	,	UM	Qty	Final Bid Price	Extended Bid Price
DR14BP12	12 C900 DR14 PVC Gasket Joint Blue NOT FOUND ON PLANS	Pipe	FT	76.00	\$17.060	\$1,296.56
08) BORIN	G, 12" PVC Unit Price:	Qty: 76		\$17.06 / F	Γ Subtotal:	\$1,296.56
	09) BORIN	IG, 24" STEEL	6			
Alt	Description/ Comments		UM	Qty	Final Bid Price	Extended Bid Price
DSCP37524FT	24 X .375 Steel CASING Pipe FOUND 265FT ON PLANS		FT	228.00	\$65.850	\$15,013.80
A12X24SSCASSPAC	12 X 24 Stainless Steel CASING SPAC	ER W/ UHMW	EA	36.00	\$83.330	\$2,999.88
CCES1220	12 X 24 End Sealant		EA	4.00	\$48.890	\$195.56
09) BORING	6, 24" STEEL Unit Price:	Qty: 228		\$79.87	Subtotal:	\$18,209.24
	10) BORIN	IG, 42" STEEL	,			
Alt	Description/ Comments	,	UM	Qty	Final Bid Price	Extended Bid Price
42.375STL	42" x .500 STEEL CASING		FT	112.00	\$104.900	\$11,748.80
2442SSCS	24X42 SS CASING SPACER W/ UHM	W RUNNER	EA	18.00	\$155.560	\$2,800.08
24X42ES	24X42 END SEAL		EA	2.00	\$105.560	\$211.12
10) BORING	6, 42" STEEL Unit Price:	Qty: 112		\$131.79	Subtotal:	\$14,760.00
	11) 24" STEE	L ENCASEME	NT			
Alt	Description/ Comments		UM	Qty	Final Bid Price	Extended Bid Price
DSCP37524FT	24 X .375 Steel CASING Pipe		FT	285.00	\$65.850	\$18,767.25
A12X24SSCASSPAC	12 X 24 Stainless Steel CASING SPAC	ER W/ UHMW	EA	45.00	\$83.330	\$3,749.85
CCES1220	12 X 24 End Sealant		EA	10.00	\$48.890	\$488.90
11) 24" STEEL	ENCASEMENT Unit Price:	Qty: 285		\$80.72	Subtotal:	\$23,006.00
	12) 42" STEE	L ENCASEME	NT	***		
Alt	Description/ Comments		UM	Qty	Final Bid Price	Extended Bid Price
42.375STL	42" X .500 STEEL CASING		FT	166.00	\$104.900	\$17,413.40
2442SSCS	24X42 SS CASING SPACER W/ UHM	W RUNNER	EA	27.00	\$155.560	\$4,200.12
24X42ES	24X42 END SEAL		EA	6.00	\$105.560	\$633.36
12) 42" STEEL	ENCASEMENT Unit Price:	Qty: 166		\$134.02	Subtotal:	\$22,246.88



Additional Work

Austin, TX 78724 Phone: 512-637-6120

Project: Great Oaks Drive Waterline Relocations

Owner: Williamson County

ROCK BERMS

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE	TOTAL PRICE
	Rock Berm - Material	TN	16	\$ 25.00	\$ 400.00
	Wire Mesh - Material	Roll	1	\$ 25.00	\$ 25.00
	Trucking Delivery - Equipment	HR	1	\$ 150.00	\$ 150.00
N/A	Skitsteer - Equipment	HR	4	\$ 85.00	\$ 340.00
	Labor - Foreman	HR	4	\$ 55.38	\$ 221.52
	Labor - Operator	HR	4	\$ 23.00	\$ 92.00
	Labor - Pipe Layer	HR	4	\$ 22.00	\$ 88.00
	Labor - General Labor	HR	4	\$ 22.00	\$ 88.00
			Total Cost	(Material & Labor)	\$ 1,404.52
			Cost	Overhead	
	Total Material Cost	\$	425.00	0%	\$ -
	Equipment	\$	490.00	55%	\$ 269.50
	Labor	\$	489.52	55%	\$ 269.24
				Overhead Cost	\$ 538.74
		Subtot	al		\$ 1,943.26
		Mark-ເ	ıp	15%	\$ 291.49
	Insuranc	e & Bon	d Adjustments	1.5%	\$ 33.52
			Total	Cost for Rock Berm	\$ 2,268.27

Traffic Control

BID ITEM #	DESCRIPTION	UNIT	Qty		UNIT PRICE		TOTAL PRICE
N/A	Traffic Control Plan	EA	1	\$	1,800.00	\$	1,800.00
	Traffic Control Implementation	Month	2	\$	4,200.00	\$	8,400.00
	Remove Signs	EA	1	\$	600.00	\$	600.00
	Total Cost of Traffic Control Plan						10,800.00

Water Barrier Rental & Installation

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRIC	E	TOTAL PRICE
N/A	BARRIER WALL 6' PLASTIC WATER FILL (Month 1)	LF	126	\$ 2	1.00	\$ 2,646.00
	BARRIER WALL 6' PLASTIC WATER FILL (Month 2)	LF	126	\$ 2	1.00	\$ 2,646.00
Total Cost for Water Barrier Rental & Installation						\$ 5,292.00

BELL RESTRAINT - 304 SS Hardware

BID ITEM #	DESCRIPTION	UNIT	Qty	UNIT PRICE		TOTAL PRICE
	12 JT REST RED 304 SS HARDWARE, 304 SS HARDWARE BLK COLOR - Material	EA	46	\$ 201.88	\$	9,286.48
	No- SS Hardware bell joint restraints - Credit	EA	46	\$ (57.00)	\$	(2,622.00)
	SPLIT RESTRAINT 12 JT REST BLK 304 SS HARDWARE- Material	EA	4	\$ 202.30	\$	809.20
	Labor - Foreman	HR	10	\$ 55.38	\$	553.80
N/A	Labor - Operator	HR	10	\$ 28.00	\$	280.00
	Labor - Pipe Layer	HR	10	\$ 22.00	\$	220.00
	Labor - General Labor #1	HR	10	\$ 22.00	\$	220.00
	Labor - General Labor #2	HR	10	\$ 22.00	\$	220.00
Total Cost (Material & Labor)				\$	8,967.48	
Lead Time: 10 Da	avs					
Time Loss: 10 Da	•		Cost	Overhead		
	Total Material Cost	\$	10,095.68	0%	\$	-
	Equipment	\$	-	55%	\$	-
	Labor	\$	1,493.80	55%	\$	821.59
				Overhead Cost	\$	821.59
Subtotal		Ś	9,789.07			
Mark-up 15%		Ś	1,468.36			
Insurance & Bond Adjustments 1.5%		Ś	168.86			
Total Cost for BELL RESTRAINT - 304 SS Hardware			\$	11,426.29		

Breakdown:

1 -	ROCK BERMS	\$ 2,268.27
2 -	Traffic Control	\$ 10,800.00
3 -	Water Barrier Rental & Installation	\$ 5,292.00
4 -	BELL RESTRAINT - 304 SS Hardware	\$ 11,426.29

Total Cost for Change Order No.4	Ś	29.786.56

8/13/2020

By Contractor:	8/13/2020
Javier Barajas/ Project Manager - QA Construction Services Inc.	Date
Approved by:	
Construction Observer: Clayton Weber, HNTB	Date
Program Manager: Michael Weaver, Prime Strategies	Date
Senior Director of Infrastructure: Robert B. Daigh, Williamson County	Date

SHEET: 1 OF 1



SPL No: SPL-WT-105

PRODUCT: MECHANICAL RESTRAINTS

ISSUE DATE: 8/1/2018

DEPARTMENT: UTILITIES AND ENVIRONMENTAL SERVICES

SERVICE: WATER

STANDARD DETAIL: - **SPECIFICATION:** 510

PRODUCT	MANUFACTURER	PRODUCT IDENTIFICATION	NOTES
DUCTILE IRON PIPE	EBBA IRON SALES INC.	1100 MEGALUG	
MECHANICAL JOINT RESTRAINT	TYLER UNION	1000 TUFGRIP	
	SIGMA	ONE-LOK SERIES SLDE (DI)	1,2,4
	STAR PIPE PRODUCTS	STARGRIP SERIES 3000	
	SIP INDUSTRIES	EZDP	
PVC PIPE	EBBA IRON SALES INC.	2000PV MEGALUG	
MECHANICAL JOINT	TYLER UNION	2000 TUFGRIP	
RESTRAINT	SIGMA	ONE-LOK SERIES SLDE (PVC)	1,3,4
	STAR PIPE PRODUCTS	PVC STARGRIP SERIES 4000	1,5,4
	FORD METER BOX CO.	SERIES 1500-CA	
	SIP INDUSTRIES	EZPVCP	
DUCTILE IRON PIPE	TYLER UNION	SERIES 3000 (DI)	
BELL RESTRAINT	SIGMA	ONE-LOCK SLCEH (DI)	1,2
	STAR PIPE PRODUCTS	SERIES 1000C AND SERIES 1100C	
PVC PIPE	TYLER UNION	SERIES 3000 (PVC)	
BELL RESTRAINT	SIGMA	ONE-LOC SLCEH (PVC)	
	STAR PIPE PRODUCTS	SERIES 1000 AND SERIES 1100	1,3
	FORD METER BOX CO.	UFR 1390 (SS BOLTS)	
	SIP INDUSTRIES	PTPVC	

REQUIREMENTS:

PRODUCTS MUST MEET ALL REQUIREMENTS LISTED IN THE CITY OF ROUND ROCK UTILITY CRITERIA MANUAL, TECHNICAL SPECIFICATIONS AND STANDARD DETAILS. ALL PRODUCTS MUST BE SUITABLE FOR USE IN POTABLE WATER.

- 1) RESTRAINT DEVICES SHALL HAVE A WORKING PRESSURE THAT EQUALS OR EXCEEDS THE PRESSURE
 - OF THE PIPE, PITTINGS, OR VALVES ON WHIGH WHEY ARE USED.
- 2) RESTRAINT DEVICES FOR DI PIPE SHALL HAVE A BLACK COATING
- 3), RESTRAINT, DEVICES FOR PVC, PIPE SHALL HAVE A RED COATING
- 4) WEDGE-ACTION LUG-TYPE MECHANICAL JOINT RESTRAINTS SHALL NO BE ATTACHED TO CAST IRON OR ASBESTOS CONCRETE PIPE