WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 7

			Contract Award Date: 1/10/2023
Contractor:	Cash Construction	NTP Required: Yes No	Project Number: 23IFB8
Project Name:	Corridor H - Sam Bas	ss Road	Funding Source: P462
Change Order Work Li	imits: Sta. 255+21.02 to S	ta. 391+30.84	Roadway: Sam Bass Road
Type of Change(on fed	leral-aid non-exempt projects):	Minor (Major/Minor)	CSJ Number: N/A
Reasons:	4B (3 Max In order	r of importance - Primary first)	
Describe the work bein			
Torry or regard reack (CO)	modation. Third party requested work. RR) to accommodate water line improver includes the necessary work and materia	This Change Order adds several items for ments along Sam Bass for a Wyoming Sprir als for a temporary bypass plan.	the additional work requested by the ngs permanent connection solution.
		ee attached	
New or revised plan sh	eet(s) are attached and numbered:	CORR WL Plans: 44A-D, 46	A-C
New Special Provisions	s/Specifications to the contract are atta	ached: D Yes	⊡ No
	to Item <u>N/A</u> No. <u>N/A.</u> Special Speci		
Each signatory hereby	warrants that each has the authority to	execute this Change Order (CO).	
and all claims for additional com	nange Order and, by doing so, agrees to waive any pensation due to any and all other expenses; rhead and profit; or loss of compensation as a		Days added on this CO: 0
THE CONTRACTOR	Date 1/31/25	Amount added by this change order:	\$288,195.31
Ву	200	Original Contract Amount:	36,145,959.00
Typed/Printed Name	TY EGBERT	Total Change Orders To-Date:	-\$1,722,056.18
Typed/Printed Title	DRECTOR OF PM	Percent Change in Original Contract:	-4.76%
RECOMMENDED FOR	EXECUTION:	RECOMMENDED FOR EXEC	UTION:
- Jalan B	2/3/2025	PhB (ai)	2/7/2025
Senior Constr	uction Engineer Date	Department of Infr Williamson C	
Christen Esc Program	herge 2/4/2025 Date	APPROVED:	
thill.	Than 2/3/25	Bill Gravell (Feb 26, 2025 11:01 CST)	Feb 26, 2025
City of Ro	ound Rock Date	Presiding Office Williamson County Comr	r of the Date

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER:	7	Project #	23IFB8
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TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE		HOURLY RATE	

TABLE B: Contract Items:

				ORIGINAL + PRE	/IOUSLY REVISED	ADD or (DEDUCT)		NEW	
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
RR-999-01	4" Temporary Bypass	LF	\$169.41	0.00	\$0.00	230.00	230.00	\$38,964.30	\$38,964.30
RR-999-02	Install 30" MJ Cross	EA	\$20,220.14	0.00	\$0.00	1.00	1.00	\$20,220.14	\$20,220.14
RR-999-03	Install 16"x4" MJ Tee	EA	\$5,374.97	0.00	\$0.00	1.00	1.00	\$5,374.97	\$5,374.97
RR-510-01	Install 30"x16" Reducer	EA	\$7,811.43	0.00	\$0.00	1.00	1.00	\$7,811.43	\$7,811.43
RR-510-02	16" Ductile Iron	LF	\$377.32	0.00	\$0.00	40.00	40.00	\$15,092.80	\$15,092.80
RR-510-03	30" Ductile Iron	LF	\$1,008.19	0.00	\$0.00	20.00	20.00	\$20,163.80	\$20,163.80
RR-510-04	Install New 30"x24" Reducer	EA	\$6,984.27	0.00	\$0.00	1.00	1.00	\$6,984.27	\$6,984.27
RR-511-01	Install 30" Gate Valve	EA	\$73,862.10	0.00	\$0.00	2.00	2.00	\$147,724.20	\$147,724.20
RR-511-02	Install 16" Gate Valve	EA	\$22,375.63	0.00	\$0.00	1.00	1.00	\$22,375.63	\$22,375.63
RR-511-03	Remove 30" BFV	EA	\$3,483.77	0.00	\$0.00	1.00	1.00	\$3,483.77	\$3,483.77
	TOTALS			_	\$0.00			\$288,195.31	\$288,195.31

CHANGE ORDER REASON(S) CODE CHART

1 Docido Error or Omission	1A Incorrect DS 8 E
Design Error or Omission	1A. Incorrect PS&E
	1B. Other
Differing Site Conditions	2A. Dispute resolution (expense caused by conditions and/or resulting delay)
(unforeseeable)	2B. Unavailable material
(unioresecable)	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
	Additional safety needs (unforeseeable) Other
	2J. Other
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
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

Corridor H – Sam Bass Road Williamson County Project No. 23IFB8

Change Order No. 7

Reason for Change

This Change Order adds several items for the additional work requested by the City of Round Rock (CORR) to accommodate water line improvements along Sam Bass for a Wyoming Springs permanent connection solution. This Change Order also includes the necessary work and materials for a temporary bypass plan.

Following is a summary of new items required for this Change Order.

ITEM	DESCRIPTION	QTY	UNIT
RR-999-01	4" Temporary Bypass	230	LF
RR-999-02	Install 30" MJ Cross	1	EA
RR-999-03	Install 16"x4" MJ Tee	1	EA
RR-510-01	Install 30"x16" Reducer	1	EA
RR-510-02	16" Ductile Iron	40	LF
RR-510-03	30" Ductile Iron	20	LF
RR-510-04	Install New 30"x24" Reducer	1	EA
RR-511-01	Install 30" Gate Valve	2	EA
RR-511-02	Install 16" Gate Valve	1	EA
RR-511-03	Remove 30" BFV	1	EA

This Change Order results in a net increase of \$288,195.31 to the Contract amount, for an adjusted Contract total of \$34,423,902.82. The original Contract amount was \$36,145,959.00. As a result of this and all Change Orders to-date, \$1,722,056.18 has been deducted from the Contract, resulting in a 4.76% net decrease in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

Change Order Worksheet

Adjusted contract amount

Contract Name	Corridor H - Sam Bass Rd		Solicitation #:	23IFB8
Date awarded	1/13/2023			
Awarded Contract	Amount	\$36,145,959.00		
			Percentage Change	
	Change order #1	-\$2,394,078.12	-6.62%	
	Change order #2	\$5,250.00	0.01%	
	Change order #3	\$56,523.26	0.16%	
	Change order #4	\$70,739.02	0.20%	
	Change order #5	\$68,580.18	0.19%	
	Change order #6	\$182,734.17	0.51%	
	Change order #7	\$288,195.31	0.80%	
	Total changes to date	(\$1,722,056.18)	-4.76%	(Running totals here)

\$34,423,902.82

OJECT:	1009 - Sam Bass Road					
M:	CPR #39 - Wyoming Spring Improvements					
TE:	1/9/2024			\		
				Additional	Unit	Bid
Item #	Description	Qty.	Unit	Days	Bid	Amount
1	4" Temporary Bypass (Added 30' of pipe after scaling the plans)	230.00	LF	3.00	\$169.41	\$38,965.2
2	Install 30" Gate Valve (includes dewatering the trench & prepping to install the valves)	2.00	EA	2.50	\$73,862.10	\$147,724.2
3	Install 16" Gate Valve (includes installing on an existing water line & detwatering trench)	1.00	EA	0.50	\$22,375.63	\$22,375.6
4	Install 30" MJ Cross	1.00	EA	0.50	\$20,220.14	\$20,220.1
5	Install 30"x16" Reducer	1.00	EA	0,50	\$7,811.43	\$7,811.4
6	Install 16"x4" MJ Tee	1.00	EA	0.50	\$5,374.97	\$5,374.9
7	Install New 30"x24" Reducer	1.000	EA	0.30	\$6,984.27	\$6,984.2
8	16" Ductile Iron (Adding another stick of pipe due to possible adding in a piece of pipe where the valve is going to be installed and 2 restraints for the 16"x4" Tee.)	40.00	LF	0.25	\$377.32	\$15,092.9
9	Remove 30" BFV	1.00	EA	0.50	\$3,483.77	\$3,483.7
10	30" Ductile Iron (Adding in a stick of pipe due to possibly adding a piece of pipe where the valves are going to be installed)	20.00	LF	0.50	\$1,008.19	\$20,163.8
	GRAND TOTAL					\$288,196.5
Notes:						
	JDE: IMPORTING TOPSOIL, STREET LIGHTS, ENGINEERING, REVEG, HAZARDOUS I LL AND ASSEMBLY, FOUNTAINS, AND ALL EROSION CONTROLS NOT LISTED.	MATERIALS	HANDLI	NG, SLOPE I	RETENTION, ROC	K BERMS, SOD,

Using unit rates provided, the Grand Total is \$288,195.31.

4" Temporary Bypass 12/3/2024 Item:

Date:

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1		HR	\$63.94	I .			
Foreman (1)	35	HR	\$60.00				
Laborer (1)	35	HR	\$21.00	\$735.00			
Laborer (2)	35	HR	\$19.75	\$691.25			
Pipelayer (1)	35	HR	\$24.00	\$840.00			
Pipelayer (2)	35	HR	\$22.50	\$787.50			
Pipelayer (3)	35	HR	\$24.50				
Excavator Operator	35	HR	\$28.00	\$980.00			
Loader Operator	35	HR	\$25.00	\$875.00			
Excavator Operator	35	HR	\$27.00	\$945.00			
Subtotal				\$9,130.95			
MATERIAL							
4" Bypass Material	1	LS	\$7,116.11		\$7,116.11		
Fusing Machine	3	Days	\$557.00		\$1,671.00		
Bedding	45	TN	\$18.50		<u>\$832.50</u>		
Subtotal					\$9,619.61		
EQUIPMENT							
Deere 624K	35	HR	\$67.80			\$2,373.00	
Deere 350	35	HR	\$122.04			\$4,271.40	
NPK - GH-15 Hammer	35	HR	\$89.44			\$3,130.40	
Subtotal						\$9,774.80	
SUB							
							<u>\$0.00</u>
Subtotal							\$0.00
Subtotals				\$9,130.95	\$9,619.61	\$9,774.80	\$0.00
Burden on Direct Labor - 5	55%			\$5,022.02			
Direct Labor - 15%				\$2,122.95			
Material -15%					\$1,442.94		
Equipment - 15%						\$1,466.22	
Subcontracts -5%							\$0.00
Subtotals				\$16,275.92	\$11,062.55	\$11,241.02	\$0.00

Change Proposal Subtotal	\$38,579.49
Bond (1%)	\$385.79
Total Change Proposal	\$38,965.28

Item: 30" Gate Valve

Date: ######

DESCRIPTION	QUAN I	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	5 H	ΗR	\$63.94	\$319.70			
Foreman (1)	35 H	ΗR	\$60.00	\$2,100.00			
Laborer (1)	35 H	ΗR	\$21.00	\$735.00			
Laborer (2)	35 H	ΗR	\$19.75	\$691.25			
Pipelayer (1)	35 H	HR	\$24.00				
Pipelayer (2)	35 H	ΗR	\$22.50	\$787.50			
Pipelayer (3)	35 H	ΗR	\$24.50	\$857.50			
Excavator Operator	35 H		\$28.00				
Loader Operator	35 H		\$25.00				
Excavator Operator	35 H	HR.	\$27.00				
Subtotal				\$9,130.95			
MATERIAL							
30" Gate Valve	2 E	ĒΑ	\$50,815.36		\$101,630.72		
Concrete	10 C	CY	\$158.00		\$1,580.00		
Rebar	70 L	_F	\$0.65		<u>\$45.50</u>		
Subtotal					\$103,256.22		
EQUIPMENT							
Deere 624K	35 H	ΗR	\$67.80			\$2,373.00	
Deere 350	35 H	ΗR	\$122.04			\$4,271.40	
NPK - GH-15 Hammer	35 H	ΗR	\$89.44			<u>\$3,130.40</u>	
Subtotal						\$9,774.80	
SUB							
							\$0.00
							<u>\$0.00</u>
Subtotal							\$0.00
Subtotals				\$9,130.95	\$103,256.22	\$9,774.80	\$0.00
Burden on Direct Labor - 55%				\$5,022.02			
Direct Labor - 15%				\$2,122.95			
Material -15%					\$15,488.43		
Equipment - 15%						\$1,466.22	
Subcontracts -5%							\$0.00
Subtotals				\$16,275.92	\$118,744.65	\$11,241.02	\$0.00

Change Proposal Subtota	\$146,2	61.59
Bond (1%)	\$1,40	62.62
Total Change Proposal		24.21

Item: 16" Gate Valve

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR	-						
Superintendent 1	2	HR	\$63.94	\$127.88			
Foreman (1)	1	HR	\$60.00	\$60.00			
Laborer (1)	15	HR	\$21.00	\$315.00			
Laborer (2)	15	HR	\$19.75	\$296.25			
Pipelayer (1)	15	HR	\$24.00	\$360.00			
Pipelayer (2)	15	HR	\$22.50	\$337.50			
Pipelayer (3)	15	HR	\$24.50	\$367.50			
Excavator Operator	15	HR	\$28.00	\$420.00			
Loader Operator	15	HR	\$25.00	\$375.00			
Excavator Operator	15	HR	\$27.00	\$405.00			
Subtotal				\$3,064.13			
MATERIAL							
16" Gate Valve	1	EA	\$9,674.32		\$9,674.32		
Concrete		CY	\$158.00		\$632.00		
Rebar	30	_	\$0.65		\$19.50		
Subtotal			• • • • • • • • • • • • • • • • • • • •		\$10,325.82		
EQUIPMENT							
Deere 624K	15	HR	\$67.80			\$1,017.00	
Deere 350		HR	\$122.04			\$1,830.60	
NPK - GH-15 Hammer		HR	\$89.44			\$1,341.60	
Subtotal	10	1111	ψ05.44			\$4,189.20	
Gubtotal						φτ, 105.20	
SUB							4
							\$0.00
							<u>\$0.00</u>
Subtotal							\$0.00
Subtotals					\$10,325.82	\$4,189.20	\$0.00
Burden on Direct Labor - 55%				\$1,685.27			
Direct Labor - 15%				\$712.41			
Material -15%					\$1,548.87		
Equipment - 15%						\$628.38	
Subcontracts -5%							\$0.00
Subtotals				\$5,461.81	\$11,874.69	\$4,817.58	\$0.00

Change Proposal Subtotal	\$22,154.08
Bond (1%)	\$221.54
Total Change Proposal	\$22,375.63

 Item:
 30" MJ Cross

 Date:
 12/3/2024

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	2	HR	\$63.94	\$127.88			
Foreman (1)	4	HR	\$60.00	\$240.00			
Laborer (1)	4	HR	\$21.00	\$84.00			
Laborer (2)	4	HR	\$19.75	\$79.00			
Pipelayer (1)	4	HR	\$24.00	\$96.00			
Pipelayer (2)	4	HR	\$22.50	\$90.00			
Pipelayer (3)	4	HR	\$24.50	\$98.00			
Excavator Operator	4	HR	\$28.00	\$112.00			
Loader Operator	4	HR	\$25.00	\$100.00			
Excavator Operator	4	HR	\$27.00	\$108.00			
Subtotal				\$1,134.88			
MATERIAL							
30" MJ Cross	1	EA	\$14,890.22		\$14,890.22		
Subtotal			·		\$14,890.22		
EQUIPMENT							
Deere 624K	4	HR	\$67.80			\$271.20	
Deere 350	4	HR	\$122.04			\$488.16	
Subtotal						\$759.36	
SUB							
Subtotal							\$0.00
Subtotals				\$1.134.88	\$14,890.22	\$759.36	\$0.00
Burden on Direct Labor - 55%				\$624.18	* * * * * * * * * * * * * * * * * * *	4.00.00	70.00
Direct Labor - 15%				\$263.86			
Material -15%					\$2,233.53		
Equipment - 15%					. ,	\$113.90	
Subcontracts -5%							\$0.00
Subtotals				\$2,022.92	\$17,123.75	\$873.26	

Change Proposal Subtotal	\$20,019.94
Bond (1%)	\$200.20
Total Change Proposal	\$20,220.14

Item: 30"x16" Reducer

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR			-				
Superintendent 1		HR	\$63.94				
Foreman (1)	4	HR	\$60.00	\$240.00			
Laborer (1)		HR	\$21.00	\$84.00			
Laborer (2)	4	HR	\$19.75	\$79.00			
Pipelayer (1)	4	HR	\$24.00	\$96.00			
Pipelayer (2)	4	HR	\$22.50	\$90.00			
Pipelayer (3)	4	HR	\$24.50	\$98.00			
Excavator Operator	4	HR	\$28.00	\$112.00			
Loader Operator	4	HR	\$25.00	\$100.00			
Excavator Operator	4	HR	\$27.00	<u>\$108.00</u>			
Subtotal				\$1,070.94			
MATERIAL							
30"x16" Reducer	1	EA	\$4,305.98		\$4,305.98		
Subtotal	'	LA	ψ4,303.90		\$4,305.98		
Subiotal					ψ4,505.96		
EQUIPMENT							
Deere 624K	4	HR	\$67.80			\$271.20	
Deere 350	4	HR	\$122.04			<u>\$488.16</u>	
Subtotal						\$759.36	
SUB							
Subtotal							\$0.00
							ψ0.00
Subtotals				\$1,070.94	\$4,305.98	\$759.36	\$0.00
Burden on Direct Labor - 55%				\$589.02			
Direct Labor - 15%				\$248.99			
Material -15%					\$645.90		
Equipment - 15%						\$113.90	
Subcontracts -5%							\$0.00
Subtotals				\$1,908.95	\$4,951.88	\$873.26	\$0.00

Change Proposal Subtotal	\$7,734.09
Bond (1%)	\$77.34
Total Change Proposal	\$7,811.43

Item: 16"x4" MJ Tee

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR			-				
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	4	HR	\$60.00	\$240.00			
Laborer (1)	4	HR	\$21.00	\$84.00			
Laborer (2)	4	HR	\$19.75	\$79.00			
Pipelayer (1)	4	HR	\$24.00	\$96.00			
Pipelayer (2)	4	HR	\$22.50	\$90.00			
Pipelayer (3)	4	HR	\$24.50	\$98.00			
Excavator Operator	4	HR	\$28.00	\$112.00			
Loader Operator	4	HR	\$25.00	\$100.00			
Excavator Operator	4	HR	\$27.00	\$108.00			
Subtotal				\$1,070.94			
MATERIAL							
16"x4" MJ Tee	1	EΑ	\$2,208.29		\$2,208.29		
Subtotal			·		\$2,208.29		
EQUIPMENT							
Deere 624K	4	HR	\$67.80			\$271.20	
Deere 350	4	HR	\$122.04			\$488.16	
Subtotal						\$759.36	
SUB							
							# 0.00
Subtotal							\$0.00
Subtotals				\$1,070.94		\$759.36	\$0.00
Burden on Direct Labor - 55%				\$589.02			
Direct Labor - 15%				\$248.99			
Material -15%					\$331.24		
Equipment - 15%						\$113.90	
Subcontracts -5%							\$0.00
Subtotals				\$1,908.95	\$2,539.53	\$873.26	\$0.00

Change Proposal Subtotal	\$5,321.75
Bond (1%)	\$53.22
Total Change Proposal	\$5,374.97

Item: 30"x24" Reducer

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	4	HR	\$60.00	\$240.00			
Laborer (1)	4	HR	\$21.00	\$84.00			
Laborer (2)	4	HR	\$19.75	\$79.00			
Pipelayer (1)	4	HR	\$24.00	\$96.00			
Pipelayer (2)	4	HR	\$22.50	\$90.00			
Pipelayer (3)	4	HR	\$24.50	\$98.00			
Excavator Operator	4	HR	\$28.00	\$112.00			
Loader Operator	4	HR	\$25.00	\$100.00			
Excavator Operator	4	HR	\$27.00	\$108.00			
Subtotal				\$1,070.94			
MATERIAL							
30"x24" Reducer	1	EA	\$3,593.83		\$3,593.83		
Subtotal	·		40,000.00		\$3,593.83		
EQUIPMENT							
Deere 624K	4	HR	\$67.80			\$271.20	
Deere 350	4	HR	\$122.04			\$488.16	
Subtotal						\$759.36	
SUB							
Subtotal							\$0.00

Subtotals				\$1,070.94	\$3,593.83	\$759.36	\$0.00
Burden on Direct Labor - 55%				\$589.02			
Direct Labor - 15%				\$248.99			
Material -15%					\$539.07		
Equipment - 15%						\$113.90	
Subcontracts -5%							\$0.00
Subtotals				\$1,908.95	\$4,132.90	\$873.26	\$0.00

Change Proposal Subtotal	\$6,915.12
Bond (1%)	\$69.15
Total Change Proposal	\$6,984.27

Item: 16" Ductile Iron

DESCRIPTION	QUAN	UNIT	JNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR		-					
Superintendent 1	2	HR	\$63.94	\$127.88			
Foreman (1)	10	HR	\$60.00	\$600.00			
Laborer (1)	10	HR	\$21.00	\$210.00			
Laborer (2)	10	HR	\$19.75	\$197.50			
Pipelayer (1)	10	HR	\$24.00	\$240.00			
Pipelayer (2)	10	HR	\$22.50	\$225.00			
Pipelayer (3)	10	HR	\$24.50	\$245.00			
Excavator Operator	10	HR	\$28.00	\$280.00			
Loader Operator	10	HR	\$25.00	\$250.00			
Excavator Operator	10	HR	\$27.00	\$270.00			
Subtotal				\$2,645.38			
MATERIAL							
16" Ductile Iron	40	LF	\$83.78		\$3,351.20		
16" MJ Sleeve	1	EA	\$1,257.77		\$1,257.77		
Restraints	2	EA	\$1,054.59		\$2,109.18		
Bedding	15	TN	\$18.50		\$277.50		
Subtotal					\$6,995.65		
EQUIPMENT							
Deere 624K	10	HR	\$67.80			\$678.00	
Deere 350	10	HR	\$122.04			\$1,220.40	
Subtotal						\$1,898.40	
SUB							
							\$0.00
							<u>\$0.00</u>
Subtotal							\$0.00
Subtotals				\$2,645.38	\$6,995.65	\$1,898.40	\$0.00
Burden on Direct Labor - 55%				\$1,454.96			
Direct Labor - 15%				\$615.05			
Material -15%					\$1,049.35		
Equipment - 15%						\$284.76	
Subcontracts -5%							\$0.00
Subtotals				\$4,715.39	\$8,045.00	\$2,183.16	\$0.00

Change Proposal Subtotal	\$14,943.55
Bond (1%)	\$149.44
Total Change Proposal	\$15,092.98

Item: Remove 30" BFV

DESCRIPTION	QUAN	UNIT	JNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR	-						
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	5	HR	\$60.00				
Laborer (1)	5	HR	\$21.00	\$105.00			
Laborer (2)	5	HR	\$19.75	\$98.75			
Pipelayer (1)	5	HR	\$24.00	\$120.00			
Pipelayer (2)	5	HR	\$22.50	\$112.50			
Pipelayer (3)	5	HR	\$24.50	\$122.50			
Excavator Operator	5	HR	\$28.00				
Loader Operator		HR	\$25.00				
Excavator Operator	5	HR	\$27.00				
Subtotal				\$1,322.69			
MATERIAL					40.00		
Subtotal					<u>\$0.00</u> \$0.00		
EQUIPMENT							
Deere 624K	5	HR	\$67.80			\$339.00	
Deere 350		HR	\$122.04			\$610.20	
Subtotal	3	TIIX	ψ122.04			\$949.20	
						ψ949.20	
SUB							
							\$0.00
							<u>\$0.00</u>
Subtotal							\$0.00
Subtotals				\$1,322.69		\$949.20	\$0.00
Burden on Direct Labor - 55%				\$727.48			
Direct Labor - 15%				\$307.53			
Material -15%					\$0.00		
Equipment - 15%						\$142.38	
Subcontracts -5%							\$0.00
Subtotals				\$2,357.69	\$0.00	\$1,091.58	\$0.00

Change Proposal Subtotal	\$3,449.27
Bond (1%)	\$34.49
Total Change Proposal	\$3,483.77

Item: 30" Ductile Iron

DESCRIPTION	QUAN	UNIT	JNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	2	HR	\$60.00	\$120.00			
Laborer (1)	2	HR	\$21.00	·			
Laborer (2)	2	HR	\$19.75	\$39.50			
Pipelayer (1)	2	HR	\$24.00				
Pipelayer (2)	2	HR	\$22.50	\$45.00			
Pipelayer (3)	2	HR	\$24.50	·			
Excavator Operator	2	HR	\$28.00	\$56.00			
Loader Operator	2	HR	\$25.00	\$50.00			
Excavator Operator	2	HR	\$27.00	<u>\$54.00</u>			
Subtotal				\$567.44			
MATERIAL							
30" Ductile Iron	20	LF	\$275.52		\$5,510.40		
30" MJ Sleeve	2	EA	\$5,295.30		\$10,590.60		
Subtotal					\$16,101.00		
EQUIPMENT							
Deere 624K	2	HR	\$67.80			\$135.60	
Deere 350	2	HR	\$122.04			\$244.08	
Subtotal						\$379.68	
SUB							
							\$0.00
							\$0.00
Subtotal							\$0.00
Subtotals				\$567.44	\$16,101.00	\$379.68	\$0.00
Burden on Direct Labor - 55%				\$312.09	, , , , , ,	,	,
Direct Labor - 15%				\$131.93			
Material -15%				,	\$2,415.15		
Equipment - 15%					, ,	\$56.95	
Subcontracts -5%						,	\$0.00
Subtotals				\$1,011.46	\$18,516.15	\$436.63	\$0.00

	Change Proposal Subtotal	\$19,964.24
	Bond (1%)	\$199.64
Total Change Proposal		<u>\$20,163.89</u>

SAM BASS ROAD WATERLINE WYOMING SPRINGS CONNECTION PERMANENT SOLUTION

12/12/2024

BY: GREG BLACKBURN, PE

CHECKED BY: RICHARD DUANE, PE





EXISTING CONDITIONS



TEMPORARY BYPASS PLAN



PROPOSED IMPORVEMENT PLAN



LEGEND:

Water Valves

Butterfly

Gate

Water Lines

City of Round Rock

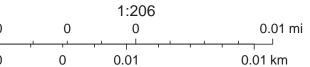
EXISTING WATER LINE TO BE RESTRAINED IN PLACE

PROPOSED GATE VALVE

EXISTING GATE VALVE

NOTES:

- 1. CONTRACTOR TO PROVIDE THRUST BLOCKS ON PROPOSED GATE VALVES. SEE THRUST BLOCK SIZING UNDER SEPARATE COVER.
- 2. ALL NEW PIPE REQUIRED TO MAKE CONNECTIONS AND PERFORM PROPOSED WORK WILL REQUIRE FACTORY RESTRAINED JOINTS.



SAM BASS ROAD WATERLINE - VALVE THRUST BLOCK CALCULATIONS

12/11/2024

BY: GREG BLACKBURN, PE

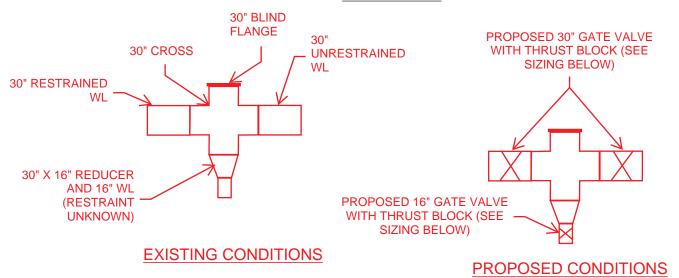
CHECKED BY: DAN CHILARESCU, PE





1120 S. Capital of Texas Highway CityView 2, Suite 100, Austin, Texas 78746 P 512.338.1704 | kfriese.com TBPE Firm No. 6535

SAM BASS ROAD WATERLINE - THRUST BLOCK CALCULATIONS NOT TO SCALE



CALCULATIONS

WHERE: T = PA

 $A_b = \underline{S_f * T}$

LEGEND:

A_b = THRUST BLOCK AREA S_f = FACTOR OF SAFETY S_b = SOIL BEARING CAPACITY

T = THRUST FORCE

 $A_b = \underbrace{S_f * P * A}_{S}$ P = OPERATING PRESSURE A = PIPE CROSS-SECTIONAL AREA **CONSTANTS:**

 $S_f = 1.5$ $S_b = 4,000 \text{ lbs/ft}^2 \text{ FOR CRUSHED LIMESTONE}$

P = 100 PSI

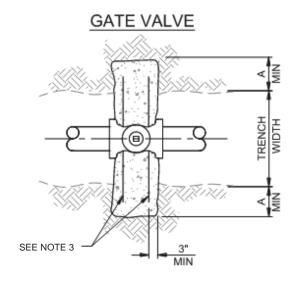
30" GATE VALVE:

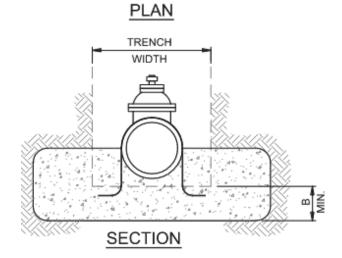
 $A_b = \underbrace{(1.5)(100)(3.14 / 4)(30^2)}_{4000} \qquad A_b = 26.5 \text{ ft}^2$

16" GATE VALVE:

 $A_b = (1.5)(100)(3.14 / 4)(16^2)$ 4000 $A_b = 7.5 \text{ ft}^2$

SAM BASS ROAD WATERLINE GATE VAVLVE THRUST BLOCK DETAIL NOT TO SCALE





THRUST BLOCK AT GATE VALVES					
SIZE	Α	В			
(IN)	(IN)	(IN)			
16	12	18			
30	18	24			

- 1. CONCRETE TO BE CLASS B CONFORMING TO SPECIFICATIONS.
 2. THRUST BLOCK TO HAVE #4 REBAR @ 12" OC, EACH WAY, TOP AND BOTTOM.
 3. USE #4 REBAR FOR STIRRUPS ON BOTH SIDES OF VALVE. STIRRUPS TIE INTO REBAR MAT.
 4. MINIMUM 26.5 SQ FT BEARING AREA FOR 30" GATE VALVE THRUST BLOCK.
- 5. MINIMUM 7.5 SQ FT BEARING AREA FOR 16" GATE VALVE THRUST BLOCK.