

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 7

Contractor: Cash Construction NTP Required: ☒ Yes ☐ No

Project Name: Corridor H - Sam Bass Road

Change Order Work Limits: Sta. 255+21.02 to Sta. 391+30.84

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

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

Contract Award Date:	<u>1/10/2023</u>
Project Number:	<u>23IFB8</u>
Funding Source:	<u>P462</u>
Roadway:	<u>Sam Bass Road</u>
CSJ Number:	<u>N/A</u>

Describe the work being revised:

4B. Third Party Accommodation. Third party requested work. 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.

Work to be performed in accordance with Items: See attached

New or revised plan sheet(s) are attached and numbered: CORR WL Plans: 44A-D, 46A-C

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

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><small>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.</small></p> <p>THE CONTRACTOR Date <u>1/31/25</u></p> <p>By <u>[Signature]</u></p> <p>Typed/Printed Name <u>TY EGBERT</u></p> <p>Typed/Printed Title <u>DIRECTOR OF PM</u></p>	<p>The following information must be provided</p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>\$288,195.31</u></p> <p>Original Contract Amount: <u>\$36,145,959.00</u></p> <p>Total Change Orders To-Date: <u>-\$1,722,056.18</u></p> <p>Percent Change In Original Contract: <u>-4.76%</u></p>
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RECOMMENDED FOR EXECUTION:

[Signature] 2/3/2025
Senior Construction Engineer Date

RECOMMENDED FOR EXECUTION:

[Signature] 2/7/2025
Department of Infrastructure Date
Williamson County

Christen Eschberger 2/4/2025
Program Manager Date

APPROVED:

[Signature] 2/3/25
City of Round Rock Date

Presiding Officer of the Date
Williamson County Commissioners Court

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 7

Project # 23IFB8

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
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. 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

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

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)

Adjusted contract amount \$34,423,902.82

CONTRACTOR: CASH CONSTRUCTION COMPANY, LTD.						
PROJECT:	1009 - Sam Bass Road					
ITEM:	CPR #39 - Wyoming Spring Improvements					
DATE:	1/9/2024					
Item #	Description	Qty.	Unit	Additional Days	Unit Bid	Bid Amount
1	4" Temporary Bypass (Added 30' of pipe after scaling the plans)	230.00	LF	3.00	\$169.41	\$38,965.28
2	Install 30" Gate Valve (includes dewatering the trench & prepping to install the valves)	2.00	EA	2.50	\$73,862.10	\$147,724.21
3	Install 16" Gate Valve (includes installing on an existing water line & detwatering trench)	1.00	EA	0.50	\$22,375.63	\$22,375.63
4	Install 30" MJ Cross	1.00	EA	0.50	\$20,220.14	\$20,220.14
5	Install 30"x16" Reducer	1.00	EA	0.50	\$7,811.43	\$7,811.43
6	Install 16"x4" MJ Tee	1.00	EA	0.50	\$5,374.97	\$5,374.97
7	Install New 30"x24" Reducer	1.000	EA	0.30	\$6,984.27	\$6,984.27
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	\$15,092.98
9	Remove 30" BfV	1.00	EA	0.50	\$3,483.77	\$3,483.77
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	\$20,163.89
GRAND TOTAL						\$288,196.56
Notes:						
PRICES EXCLUDE: IMPORTING TOPSOIL, STREET LIGHTS, ENGINEERING, REVEG, HAZARDOUS MATERIALS HANDLING, SLOPE RETENTION, ROCK BERMS, SOD, MAKE UP WELL AND ASSEMBLY, FOUNTAINS, AND ALL EROSION CONTROLS NOT LISTED.						

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

BREAKDOWN WORKSHEET

Item: 4" Temporary Bypass

Date: 12/3/2024

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	5	HR	\$63.94	\$319.70			
Foreman (1)	35	HR	\$60.00	\$2,100.00			
Laborer (1)	35	HR	\$21.00	\$735.00			
Laborer (2)	35	HR	\$19.75	\$691.25			
Pipelaye (1)	35	HR	\$24.00	\$840.00			
Pipelaye (2)	35	HR	\$22.50	\$787.50			
Pipelaye (3)	35	HR	\$24.50	\$857.50			
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		\$832.50		
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							
Subtotal							\$0.00
Subtotals				\$9,130.95	\$9,619.61	\$9,774.80	\$0.00
Burden on Direct Labor - 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

BREAKDOWN WORKSHEET

Item: 30" Gate Valve
 Date: #####

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	5	HR	\$63.94	\$319.70			
Foreman (1)	35	HR	\$60.00	\$2,100.00			
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	\$857.50			
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							
30" Gate Valve	2	EA	\$50,815.36		\$101,630.72		
Concrete	10	CY	\$158.00		\$1,580.00		
Rebar	70	LF	\$0.65		\$45.50		
Subtotal					\$103,256.22		
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							
							\$0.00
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 Subtotal							\$146,261.59
Bond (1%)							\$1,462.62
Total Change Proposal							\$147,724.21

BREAKDOWN WORKSHEET

Item: 16" Gate Valve
Date: 12/3/2024

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			
Pipelaye (1)	15	HR	\$24.00	\$360.00			
Pipelaye (2)	15	HR	\$22.50	\$337.50			
Pipelaye (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	4	CY	\$158.00		\$632.00		
Rebar	30	LF	\$0.65		\$19.50		
Subtotal					\$10,325.82		
EQUIPMENT							
Deere 624K	15	HR	\$67.80			\$1,017.00	
Deere 350	15	HR	\$122.04			\$1,830.60	
NPK - GH-15 Hammer	15	HR	\$89.44			\$1,341.60	
Subtotal						\$4,189.20	
SUB							
							\$0.00
Subtotal							\$0.00
Subtotals				\$3,064.13	\$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

BREAKDOWN WORKSHEET

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			
Pipelaye (1)	4	HR	\$24.00	\$96.00			
Pipelaye (2)	4	HR	\$22.50	\$90.00			
Pipelaye (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			
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	\$0.00
Change Proposal Subtotal							\$20,019.94
Bond (1%)							\$200.20
Total Change Proposal							\$20,220.14

BREAKDOWN WORKSHEET

Item: 30"x16" Reducer
Date: 12/3/2024

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			
Pipelaye (1)	4	HR	\$24.00	\$96.00			
Pipelaye (2)	4	HR	\$22.50	\$90.00			
Pipelaye (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"x16" Reducer	1	EA	\$4,305.98		\$4,305.98		
Subtotal					\$4,305.98		
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	\$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

BREAKDOWN WORKSHEET

Item: 16"x4" MJ Tee
Date: 12/3/2024

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			
Pipelaye (1)	4	HR	\$24.00	\$96.00			
Pipelaye (2)	4	HR	\$22.50	\$90.00			
Pipelaye (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	EA	\$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							
Subtotal							\$0.00
Subtotals				\$1,070.94	\$2,208.29	\$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

BREAKDOWN WORKSHEET

Item: 30"x24" Reducer
Date: 12/3/2024

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					\$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

BREAKDOWN WORKSHEET

Item: 16" Ductile Iron
Date: 12/3/2024

DESCRIPTION	QUAN	UNIT	UNIT 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			
Pipelaye (1)	10	HR	\$24.00	\$240.00			
Pipelaye (2)	10	HR	\$22.50	\$225.00			
Pipelaye (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
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

BREAKDOWN WORKSHEET

Item:

Remove 30" BFV

Date:

12/3/2024

DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	5	HR	\$60.00	\$300.00			
Laborer (1)	5	HR	\$21.00	\$105.00			
Laborer (2)	5	HR	\$19.75	\$98.75			
Pipelaye (1)	5	HR	\$24.00	\$120.00			
Pipelaye (2)	5	HR	\$22.50	\$112.50			
Pipelaye (3)	5	HR	\$24.50	\$122.50			
Excavator Operator	5	HR	\$28.00	\$140.00			
Loader Operator	5	HR	\$25.00	\$125.00			
Excavator Operator	5	HR	\$27.00	\$135.00			
Subtotal				\$1,322.69			
MATERIAL							
Subtotal					\$0.00		
EQUIPMENT							
Deere 624K	5	HR	\$67.80			\$339.00	
Deere 350	5	HR	\$122.04			\$610.20	
Subtotal						\$949.20	
SUB							
Subtotal							\$0.00
Subtotals				\$1,322.69	\$0.00	\$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

BREAKDOWN WORKSHEET

Item: 30" Ductile Iron
Date: 12/3/2024

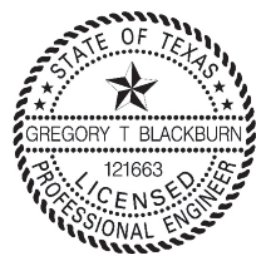
DESCRIPTION	QUAN	UNIT	UNIT PRICE	LABOR	MATERIAL	EQUIP	SUB
LABOR							
Superintendent 1	1	HR	\$63.94	\$63.94			
Foreman (1)	2	HR	\$60.00	\$120.00			
Laborer (1)	2	HR	\$21.00	\$42.00			
Laborer (2)	2	HR	\$19.75	\$39.50			
Pipelayer (1)	2	HR	\$24.00	\$48.00			
Pipelayer (2)	2	HR	\$22.50	\$45.00			
Pipelayer (3)	2	HR	\$24.50	\$49.00			
Excavator Operator	2	HR	\$28.00	\$56.00			
Loader Operator	2	HR	\$25.00	\$50.00			
Excavator Operator	2	HR	\$27.00	\$54.00			
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
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							\$20,163.89

**SAM BASS ROAD WATERLINE
WYOMING SPRINGS CONNECTION PERMANENT SOLUTION**

12/12/2024

BY: GREG BLACKBURN, PE

CHECKED BY: RICHARD DUANE, PE



12/11/2024

Greg Blackburn



1120 S. Capital of Texas Highway
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TBPE Firm No. 6535

EXISTING CONDITIONS



LEGEND:
Water Valves
● Butterfly
● Gate
Water Lines
— City of Round Rock



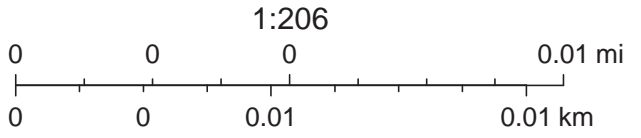
4" TAPPING SADDLE
4" BYPASS
12" GATE VALVE
12" PRESSURE REDUCING VALVE
12" GATE VALVE



4" TAPPING SADDLE
4" GATE VALVE
4" GATE VALVE
4" METER
4" GATE VALVE
4" TAPPING SADDLE



4" GATE VALVE
4" BACKFLOW PREVENTER
4" GATE VALVE
4" PRESSURE REDUCING VALVE



TEMPORARY BYPASS PLAN



ESTIMATED QUANTITIES		
QTY	UNIT	DESCRIPTION
200	LF	4" HDPE BYPASS PIPING
1	EA	16" X 4" TAPPING SLEEVE
1	EA	4" X 4" TAPPING SLEEVE

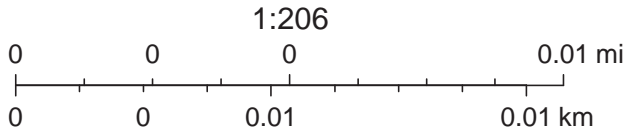
LEGEND:

Water Valves

- Butterfly
- ⊙ Gate

Water Lines

- City of Round Rock
- ~ Segment Temporarily Out of Service
- - - - Temporary 4" HDPE Water Line



PROPOSED IMPORVEMENT PLAN



ESTIMATED QUANTITIES		
QTY	UNIT	DESCRIPTION
1	EA	30" X 30" CROSS
2	EA	30" GATE VALVE
1	EA	30" X 24" REDUCER
1	EA	30" X 16" REDUCER
1	EA	16" GATE VALVE
1	EA	16" X 4" CUT-IN TEE
130	LF	30" DUCTILE IRON PIPE RESTRAIN IN PLACE USING EBBA SERIESE 1100HD SPLIT MEGALUG RESTRAINTS OR APPROVED EQUAL
20	LF	16" DUCTILE IRON PIPE RESTRAIN IN PLACE USING EBBA SERIESE 1100HD SPLIT MEGALUG RESTRAINTS OR APPROVED EQUAL
20	LF	16" CL250 RESTRAINED DUCTILE IRON PIPE

LEGEND:

Water Valves

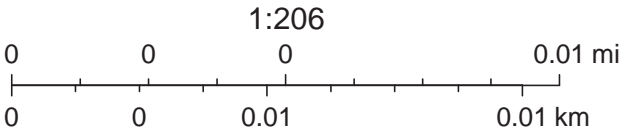
- Butterfly
- Gate

Water Lines

- City of Round Rock
- EXISTING WATER LINE TO BE RESTRAINED IN PLACE
- PROPOSED GATE VALVE
- EXISTING GATE VALVE

NOTES:

- CONTRACTOR TO PROVIDE THRUST BLOCKS ON PROPOSED GATE VALVES. SEE THRUST BLOCK SIZING UNDER SEPARATE COVER.
- 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



12/11/2024

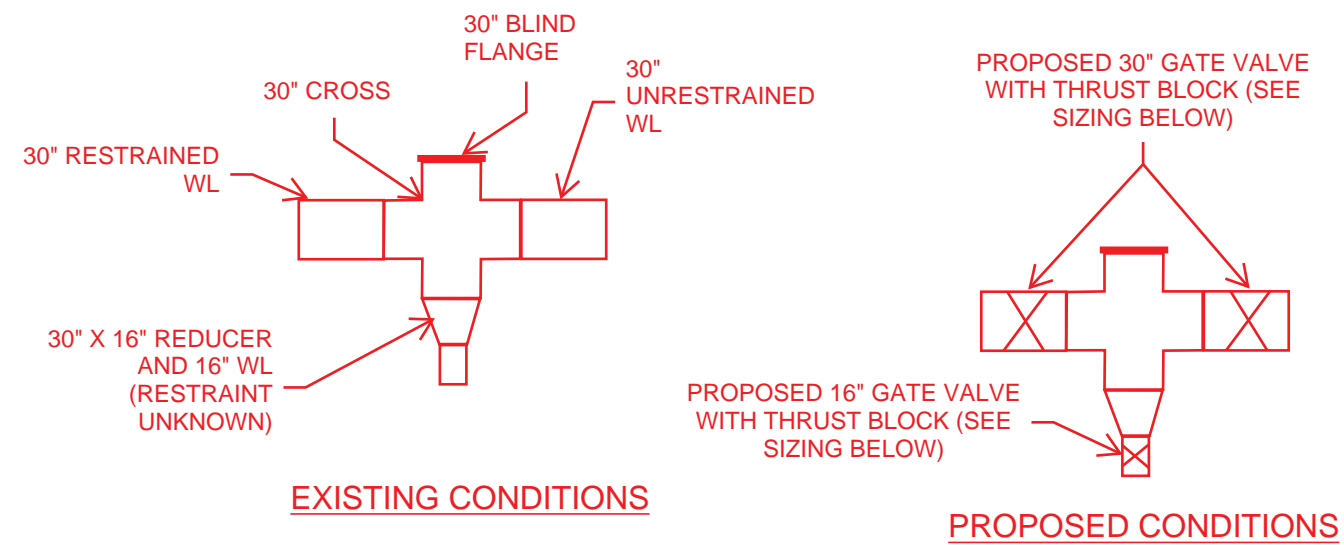
A handwritten signature in black ink, appearing to read "Greg Blackburn", written over a horizontal line.



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TBPE Firm No. 6535

SAM BASS ROAD WATERLINE - THRUST BLOCK CALCULATIONS

NOT TO SCALE



CALCULATIONS

$A_b = \frac{S_f \cdot T}{S_b}$ WHERE: T = PA

$A_b = \frac{S_f \cdot P \cdot A}{S_b}$

LEGEND:

A_b = THRUST BLOCK AREA

S_f = FACTOR OF SAFETY

S_b = SOIL BEARING CAPACITY

T = THRUST FORCE

P = OPERATING PRESSURE

A = PIPE CROSS-SECTIONAL AREA

CONSTANTS:

S_f = 1.5

S_b = 4,000 lbs/ft² FOR CRUSHED LIMESTONE

P = 100 PSI

30" GATE VALVE:

$A_b = \frac{(1.5)(100)(3.14 / 4)(30^2)}{4000}$

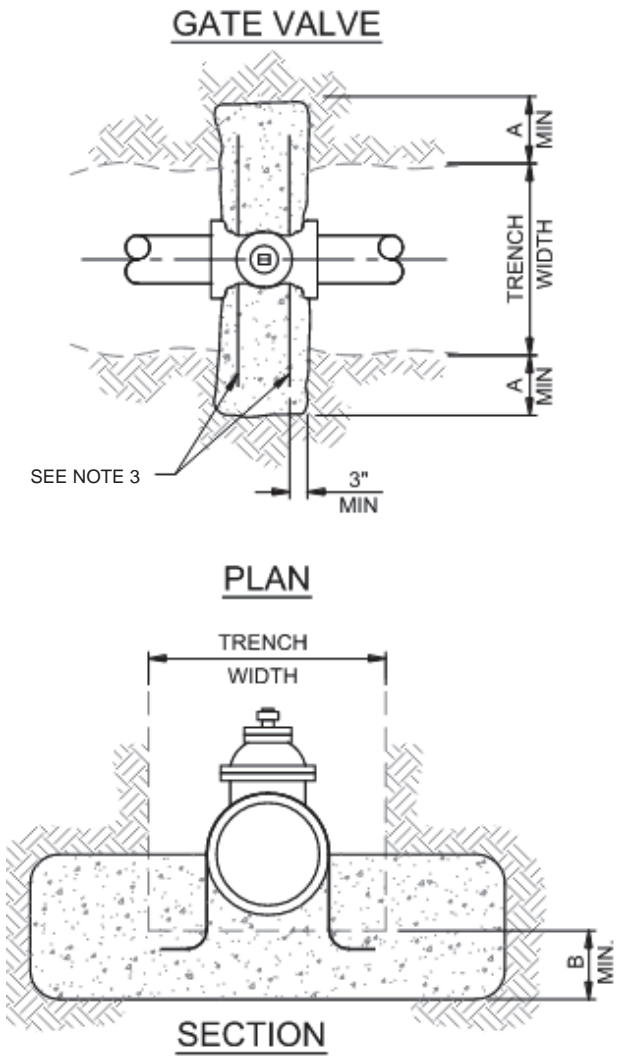
$A_b = 26.5 \text{ ft}^2$

16" GATE VALVE:

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

$A_b = 7.5 \text{ ft}^2$

**SAM BASS ROAD WATERLINE
GATE VALVE THRUST BLOCK DETAIL**
NOT TO SCALE



THRUST BLOCK AT GATE VALVES		
SIZE (IN)	A (IN)	B (IN)
16	12	18
30	18	24

- NOTES:**
- 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.