

5880 WEST HWT 190, SUITE 100
BELTON, TX 76513
PHONE: (254) 939-8610
FAX: (254) 939-8611



8/31/2021

HNTB CORPORATION
Attention: Eddie Church
101 E. Old Settlers Blvd, Suite 100
Round Rock, TX 78664

RE: WILLIAMSON Co. – CR101
Job #: 2138
CO-02 (Jonah Open Cut)

Dear Mr. Church,

Please see attached sign Change Order #1 for the above referenced project.

Please review, sign and return an executed copy.

James Construction Group does not waive any original contract conditions to submit costs of claims associated or arising from delayed or changed work. This includes occasions when it becomes necessary to preform extra work at Williamson County's request. Upon execution of Williamson County's change order form, the contractor reserves its right to submit or claim any extra costs, overhead and delay time with associated cost arising from or pertaining to the change order.

Regards,
James Construction Group

A handwritten signature in blue ink, appearing to read "Alex Krejchi".

Alexander Krejchi
Project Engineer

CC:

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 2

1. CONTRACTOR: James Construction

2. Change Order Work Limits: Sta. 31+00 to Sta. 187+00

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

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

Project: 2138

Roadway: CR 101

CSJ
Number: _____

5. Describe the work being revised:

3F: County Convenience. Additional work desired by the County. This Change Order documents the change in the method of installation of the 24" waterline encasement pipe across CR 368 and CR 101 and adds 4 - 4" bores and water meter relocations to the contract.

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

7. New or revised plan sheet(s) are attached and numbered: _____

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

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

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

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.

THE CONTRACTOR

Date 8/24/21

By 
Typed/Printed Name Rick Lewis

Typed/Printed Title Division Manager

The following information must be provided

Time Ext. #: N/A Days added on this CO: 0

Amount added by this change order: \$87,600.15

RECOMMENDED FOR EXECUTION:

 8/31/21
Project Manager Date

N/A
Design Engineer Date

 9/07/2021
Program Manager Date

Design Engineer's Seal:

County Commissioner Precinct 1 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date
☐ APPROVED ☐ REQUEST APPROVAL

County Judge Date
☐ APPROVED

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 2

Project # 2138

TABLE A: Force Account Work and Materials Placed into Stock[illegible]**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
J103-01	24" ENC. PIPE. BORED WITH 16' C-905, DR-18 RJ CARRIER PIPE; INSTALLED	LF	\$532.36	870.00	\$463,153.20	(170.00)	700.00	\$372,652.00	(\$90,501.20)
J103-02	4" BORE WITH WATER METER RECONNECT	LF	\$150.44	0.00	\$0.00	470.00	470.00	\$70,706.80	\$70,706.80
J103-03	24" STEEL ENCASEMENT BY OPEN CUT	DAY	\$21,478.91	0.00	\$0.00	5.00	5.00	\$107,394.55	\$107,394.55
TOTALS						\$463,153.20		\$550,753.35	\$87,600.15

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

CR 101 Improvements Williamson County Project No. 2138

Change Order No. 2

Reason for Change

This Change Order documents the change in the method of installation of the 24" water line encasement pipe across CR 368 and CR 101 and adds four (4) - 4" bores and water meter relocations to the contract.

Item J103-03 24" Steel Encasement by Open Cut. The plans called for the installation of encasement across CR 368 and CR 101 to be bored. Due to conflicts between the bore pits and an existing AT&T utility, the method of installation for the encasement pipe was changed to open-cut. Open cutting is an acceptable method of installation, because the roadways are to be reconstructed on this project. This Item was paid by the day of work because it was not known how long the work would take, due to the proximity of adjacent utilities.

Item J103-02 4" Bore with Water Meter Reconnect. This item pays the contractor to install four new water service lines across CR 101 and reconnect the water meters at the new right of way (ROW) line. This work was not originally called for in the plans. The new water service lines were required due to the width of the new right of way acquired for the project. The new lines were bored across the ROW of CR 101 at the following locations: Sta. 31+04 RT, 73+72 RT, 77+63 RT, and 108+65 RT.

Following is a summary of the new items required for this change order.

ITEM	DESCRIPTION	QTY	UNIT
J103-02	4" BORE WITH WATER METER RECONNECT	470.00	LF
J103-03	24" STEEL ENCASEMENT BY OPEN CUT	5.00	DAY

This Change Order results in an increase of \$87,600.15 to the Contract amount, for an adjusted Contract total of \$13,320,012.72. The original Contract amount was \$13,092,842.00. Because of this Change Order, \$227,170.72 has been added to the Contract, resulting in a 1.74% net increase 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

Lowell D. Choate, P.E.

J103-03

Invoice

Date: 3/30/2021

Proposal#010783-02.2



Bill To:

Eddie Chruch
HNTB Corporation
101 E. Old Settlers Blvd, Suite 100
Round Rock, TX 78664

RE:

Williamson
CR 101
Project No.: 2138
Control No.: 2138

Qty	UM	Description	Unit Price	Total
170.00	LF	Materials (Casing, Pipe, Bedding, and Backfill)	\$264.54	\$44,972.54
4.50	DAY	Daily Rate to Install Crossing	\$10,765.46	\$48,444.55
3.00	DAY	Daily Rate for Flagging	\$3,583.37	\$10,750.12
1.00	DAY	Daily Rate to Pothole for Existing Utilities	\$3,227.34	\$3,227.34
			Total	\$107,394.55

James Construction Group, LLC

Contractor's Basis of Estimate

Date: 2/11/2021
CO Pricing Good For: 45 Days (unless noted otherwise elsewhere)

Project: CR101
Control: 2138

County: Williamson
Highway: CR101

Description: Open Cut 24in Bores 185+00

Original Contract: Net CO: \$ - Revised Contract:

Estimated Qty: 170.00 LF
Estimated Change in Contract Sum: \$ 44,972.54
Estimated Change In Contract Time:

Narrative: Due to conflicts with the ATT fiberline and existing 4in waterline, HNTB and Jonah Water have requested that JCG open cut both the 24in cased line running under CR101 and the line running under CR368. In total 170 LF will be installed via open cut. This Basis of Estimate only includes the cost to purchase the materials

JCG reserves the right to request equitable time and monetary adjustments for additional or unforeseen work resulting from this change order.

<u>Labor</u>	<u>Reg Hrs</u>	<u>OT Hrs</u>	<u>UM</u>	<u>Reg Rate</u>	<u>OT Rate (x1.5)</u>	<u>Extended</u>
					Subtotal	\$ -
					15% Markup	\$ -
					55% Burdens	\$ -
					Total Labor	\$ -

<u>Equipment</u>	<u>QTY</u>	<u>UM</u>	<u>Rate</u>	<u>Extended</u>
			Subtotal	\$ -
			15% Markup	\$ -
			Total Equipment	\$ -

<u>Subcontractors</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
			Subtotal	\$ -
			15% Markup	\$ -
			Total Subcontract	\$ -

<u>Material</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
Bedding Rock (Sexton supply)	54.00	CY	\$ 16.00	\$ 864.00
Base (delivered)	248.00	Tons	\$ 11.00	\$ 2,728.00
Cold Patch (4in) (delivered)	10.00	Tons	\$ 84.79	\$ 847.90
Sexton Materials	1.00	LS	\$ 34,279.46	\$ 34,279.46
			Subtotal	\$ 38,719.36
			15% Markup	\$ 5,807.90
			Total Material	\$ 44,527.26

<u>Additional Work Items</u>	<u>QTY</u>	<u>Units</u>	<u>Price</u>	<u>Extended</u>
				\$ -
			Total	\$ -

TOTAL OF WORK PERFORMED \$ 44,527.26

BOND FEE (ADD 1%) \$ 445.27

TOTAL COST \$ 44,972.54

UNIT PRICE (TOTAL COST/EST. QTY) \$ 264.54

James Construction Group, LLC

Contractor's Basis of Estimate

Date: 2/11/2021
CO Pricing Good For: 45 Days (unless noted otherwise elsewhere)

Project: CR101
Control: 2138

County: Williamson
Highway: CR101

Description: Open Cut 24in Bores 185+00

Original Contract: Net CO: \$ - Revised Contract:

Estimated Qty: 5.00 DAY
Estimated Change in Contract Sum: \$ 53,827.28
Estimated Change In Contract Time:

Narrative: Due to conflicts with the ATT fiberline and existing 4in waterline, HNTB and Jonah Water have requested that JCG open cut both the 24in cased line running under CR101 and the line running under CR368. In total 170 LF will be installed via open cut.

JCG reserves the right to request equitable time and monetary adjustments for additional or unforeseen work resulting from this change order.

<u>Labor</u>	<u>Reg Hrs</u>	<u>OT Hrs</u>	<u>UM</u>	<u>Reg Rate</u>	<u>OT Rate (x1.5)</u>	<u>Extended</u>
Dozer Operator	16.00	4.00	HR	\$ 19.00	\$ 28.50	\$ 418.00
Loader Operator	16.00	4.00	HR	\$ 17.00	\$ 25.50	\$ 374.00
Motor Grader Operator	16.00	4.00	HR	\$ 26.00	\$ 39.00	\$ 572.00
Roller Operator	16.00	4.00	HR	\$ 15.00	\$ 22.50	\$ 330.00
Forman	16.00	4.00	HR	\$ 33.44	\$ 50.16	\$ 735.68
					Subtotal	\$ 2,429.68
					15% Markup	\$ 364.45
					55% Burdens	\$ 1,336.32
					Total Labor	\$ 4,130.46

<u>Equipment</u>	<u>QTY</u>	<u>UM</u>	<u>Rate</u>	<u>Extended</u>
Cat D5 Dozer	20.00	HR	\$ 72.31	\$ 1,446.20
Cat 930M Loader	20.00	HR	\$ 65.98	\$ 1,319.60
Cat 140 Motorgrader	20.00	HR	\$ 84.17	\$ 1,683.40
Steel Wheel Roller (rental)	7.00	Days	\$ 130.00	\$ 910.00
Cat CS54B Roller	20.00	HR	\$ 52.04	\$ 1,040.80
1/2 ton Pickup	20.00	HR	\$ 27.56	\$ 551.20
			Subtotal	\$ 6,951.20
			15% Markup	\$ 1,042.68
			Total Equipment	\$ 7,993.88

<u>Subcontractors</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
Sexton (Trench/Install Casing)	5.00	DAY	\$ 7,160.00	\$ 35,800.00
			Subtotal	\$ 35,800.00
			15% Markup	\$ 5,370.00
			Total Subcontract	\$ 41,170.00

<u>Material</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
			Subtotal	\$ -
			15% Markup	\$ -
			Total Material	\$ -

<u>Additional Work Items</u>	<u>QTY</u>	<u>Units</u>	<u>Price</u>	<u>Extended</u>
				\$ -
			Total	\$ -

TOTAL OF WORK PERFORMED \$ 53,294.34

BOND FEE (ADD 1%) \$ 532.94

TOTAL COST \$ 53,827.28

UNIT PRICE (TOTAL COST/EST. QTY) \$ 10,765.46

James Construction Group, LLC

Contractor's Basis of Estimate

Date: 2/11/2021
CO Pricing Good For: 45 Days (unless noted otherwise elsewhere)

Project: CR101
Control: 2138

County: Williamson
Highway: CR101

Description: Open Cut 24in Bores 185+00

Original Contract: Net CO: \$ - Revised Contract:

Estimated Qty: 7.00 DAY
Estimated Change in Contract Sum: \$ 25,083.61
Estimated Change in Contract Time:

Narrative: Due to conflicts with the ATT fiberline and existing 4in waterline, HNTB and Jonah Water have requested that JCG open cut both the 24in cased line running under CR101 and the line running under CR368. In total 170 LF will be installed via open cut.

JCG reserves the right to request equitable time and monetary adjustments for additional or unforeseen work resulting from this change order.

Labor

<u>Reg Hrs</u>	<u>OT Hrs</u>	<u>UM</u>	<u>Reg Rate</u>	<u>OT Rate (x1.5)</u>	<u>Extended</u>
					Subtotal \$ -
					15% Markup \$ -
					55% Burdens \$ -
					Total Labor \$ -

Equipment

<u>QTY</u>	<u>UM</u>	<u>Rate</u>	<u>Extended</u>
			Subtotal \$ -
			15% Markup \$ -
			Total Equipment \$ -

Subcontractors

Flasher Equipment (Flag Intersection during operation)

<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
7.00	DAY	\$ 3,085.13	\$ 21,595.88
			Subtotal \$ 21,595.88
			15% Markup \$ 3,239.38
			Total Subcontract \$ 24,835.26

Material

<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
			Subtotal \$0.00
			15% Markup \$ -
			Total Material \$ -

Additional Work Items

<u>QTY</u>	<u>Units</u>	<u>Price</u>	<u>Extended</u>
			\$ -
			Total \$ -

TOTAL OF WORK PERFORMED \$ 24,835.26

BOND FEE (ADD 1%) \$ 248.35

TOTAL COST \$ 25,083.61

UNIT PRICE (TOTAL COST/EST. QTY) \$ 3,583.37

James Construction Group, LLC

Contractor's Basis of Estimate

Date: 2/11/2021
CO Pricing Good For: 45 Days (unless noted otherwise elsewhere)

Project: CR101
Control: 2138

County: Williamson
Highway: CR101

Description: Open Cut 24in Bores 185+00

Original Contract: Net CO: \$ - Revised Contract:

Estimated Qty: 2.00 DAY
Estimated Change in Contract Sum: \$ 6,454.69
Estimated Change in Contract Time:

Narrative: Due to conflicts with the ATT fiberline and existing 4in waterline, HNTB and Jonah Water have requested that JCG open cut both the 24in cased line running under CR101 and the line running under CR368. In total 170 LF will be installed via open cut.

JCG reserves the right to request equitable time and monetary adjustments for additional or unforeseen work resulting from this change order.

<u>Labor</u>	<u>Reg Hrs</u>	<u>OT Hrs</u>	<u>UM</u>	<u>Reg Rate</u>	<u>OT Rate (x1.5)</u>	<u>Extended</u>
						Subtotal \$ -
						15% Markup \$ -
						55% Burdens \$ -
						Total Labor \$ -

<u>Equipment</u>	<u>QTY</u>	<u>UM</u>	<u>Rate</u>	<u>Extended</u>
				Subtotal \$ -
				15% Markup \$ -
				Total Equipment \$ -

<u>Subcontractors</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
Badger Potholing (5 lines, approx 4 ft deep)	2.00	DAY	\$ 2,778.60	\$ 5,557.20
				Subtotal \$ 5,557.20
				15% Markup \$ 833.58
				Total Subcontract \$ 6,390.78

<u>Material</u>	<u>QTY</u>	<u>UM</u>	<u>Price</u>	<u>Extended</u>
				Subtotal \$0.00
				15% Markup \$ -
				Total Material \$ -

<u>Additional Work Items</u>	<u>QTY</u>	<u>Units</u>	<u>Price</u>	<u>Extended</u>
				\$ -
				Total \$ -

TOTAL OF WORK PERFORMED \$ 6,390.78

BOND FEE (ADD 1%) \$ 63.91

TOTAL COST \$ 6,454.69

UNIT PRICE (TOTAL COST/EST. QTY) \$ 3,227.34



5880 West US Highway 190
Belton, TX 76513
Phone: 254-938-7017 Fax: 254-938-7243

Date: 12/17/2020

Request for Information # 016

Project CR101 WILLIAMSONN COUNTY
JCG Job# 10783-
Contract# 2181

To:	From:
Eddie Church P.E.	Alexander Krejchi
HNTB Corporation	Primoris Service Corporation (James Heavy Civil)
101 E. Old Settlers Blvd #100	
Round Rock TX 78664	
Phone: 512-527-6723	Phone: 254-718-4392
Fax:	Fax:
Email: erchruch@hntb.com	Email: akrejchi@prim.com

Subject:	Status:	Response Required By:
Utility Conflict CR368xCR101 Bores (Water Line)	Open	

Submittal #:	Drawing #:	Addendum:	Spec Section:	Schedule #:

RFI Detail:

A 4" Jonah waterline has been discovered running E-W in the freshly moved bore pit. It has been exposed at station 185+05 at an elevation of 640.64. The ATT fiber line running E-W north of the bore pit is at station 185+21 approximately 4' below grade giving us about 15 feet between the exposed Jonah Water line and the located ATT Fiber line. The minimum bore pit dimensions are 42ft long, 14ft wide and must extend to an elevation of 636.418. Because the ATT Line is allowed to be located +/- 18in, JCG is concerned that moving the bore pit north to avoid the water line could potentially cause conflicts with the ATT Fiber Line. Please advise.

Suggestion:

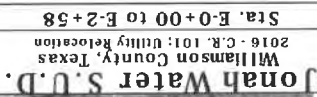
Response:

In speaking with Mr. Weber, we discussed the possibility of performing an open-cut on both the CR 368 and CR 101 crossing. Jonah Water does not have an issue with this change provided the County/City of Taylor, does not either. If an open-cut is performed it is believed that the conflict with the E-4" waterline would be lessened enough to perform the work and keep the alignment the same.

Keep in mind that the E-4" that is in conflict is to be replaced with the P-4" within alignment "F". If the P-4" were installed and up into operation then the E-4", (that is in conflict) would be abandoned and could be removed.

Signature: 

Date: 12/18/2020

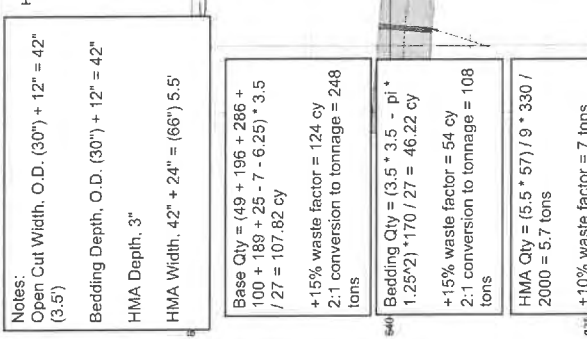


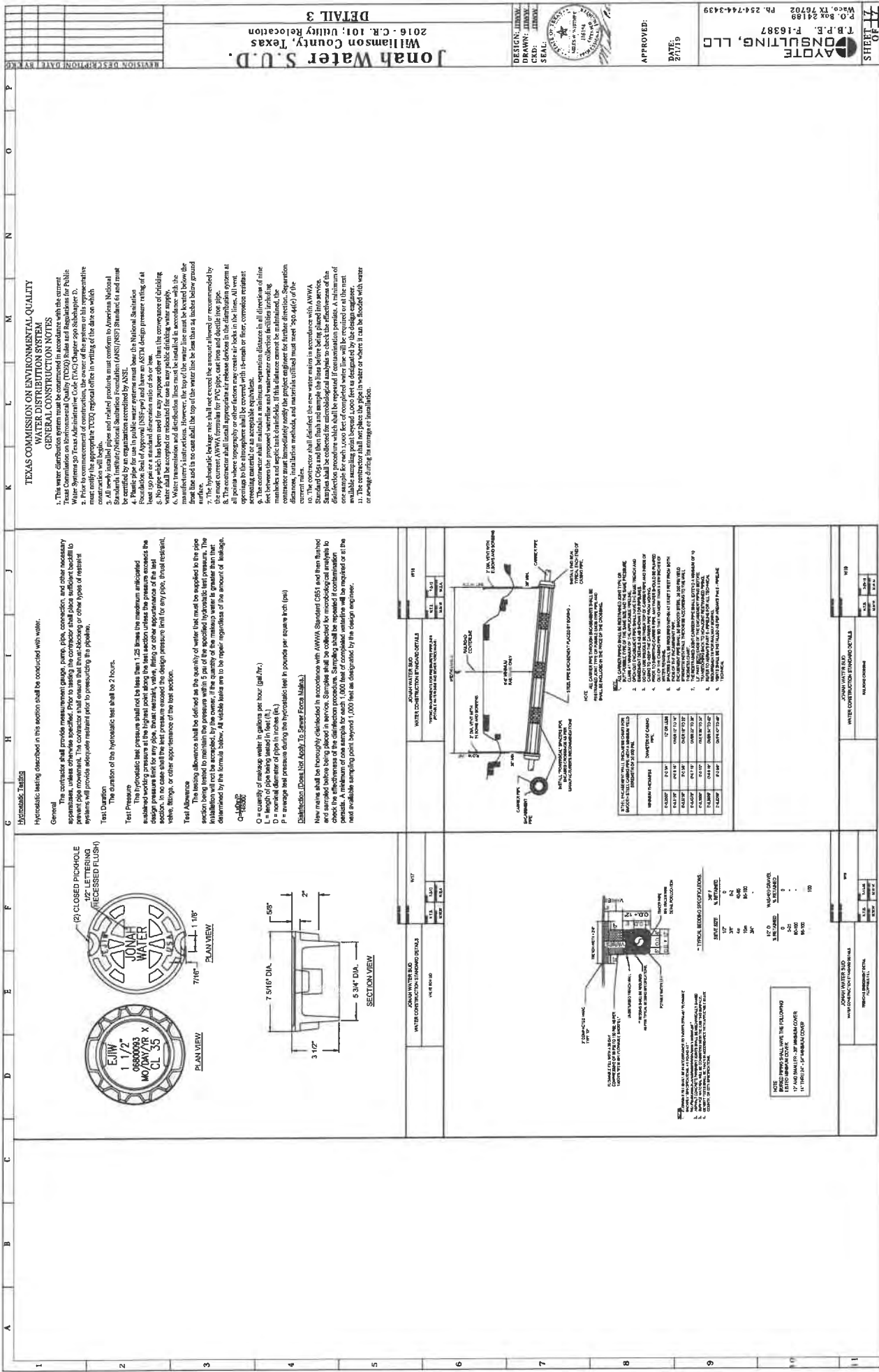
DESIGN: J11AW	
DRAWN: J11AW	
CKD: J11AW	
SEAL:	

APPROVED: _____
DATE: 2/1/19

AYOTE CONSULTING, LLC
T.B.P.E. F-16387
P.O. Box 24189
Waco, TX 76702 Ph. 254-744-3439

SHEET 6
OF 17





17.0 Box 24189
McO, TX 76702
P. 254-744-3439

AYOTE
CONSULTING, LLC
T.B.P.E. F-16387

SHEET 17 OF 17

DESIGN: JENNIFER
DRAWN: JENNIFER
SEAL: JENNIFER

APPROVED:
DATE: 2/1/19

2016 C.R. 101 Utility Relocation
Williamson County, Texas
Jonah Water S.U.D.
DETAIL 3

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER DISTRIBUTION SYSTEM
GENERAL CONSTRUCTION NOTES**

- This water distribution system must be constructed in accordance with the current Texas Administrative Code (TAC) Chapter 201.001, Subchapter 1, and the Texas Public Water Supplies Act (TPWSA), Chapter 201.001, Subchapter 1, and the Texas Public Water Supplies Act (TPWSA), Chapter 201.001, Subchapter 1.
- Prior to commencement of construction, the owner of the system or its representative must notify the appropriate TCOQ regional office in writing of the date on which construction is to begin.
- All work installed pipes and related products must conform to American National Standards Institute (ANSI) and National Sanitation Foundation (NSF) standards and must be certified by an organization accredited by ANSI.
- No pipe which has been used for any purpose other than the conveyance of drinking water shall be used in the water distribution system.
- No pipe which has been used for any purpose other than the conveyance of drinking water shall be used in the water distribution system.
- Water transmission and distribution lines must be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 34 inches below ground.
- The hydraulic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA (formal) for PVC pipe, cast iron and ductile iron pipe.
- The contractor shall install appropriate air release devices in the distribution system at all points of high topography and at all points where air locks in the line. At least one air release device shall be installed for every 100 feet of pipe.
- The contractor shall maintain a minimum separation distance in all directions of nine feet between the water distribution system and any other underground utility.
- The contractor shall immediately notify the project engineer for further direction. Separation distance, installation methods, and materials utilized must meet 504.46(1) of the Texas Administrative Code.
- The contractor shall identify the new water main in accordance with AWWA Standard 900 and then flush and sample the line before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the flushing process. The analysis shall be performed by a laboratory approved by the TCOQ. A minimum of one sample for each 1,000 feet of completed water line will be required. The water line shall be sampled at a point beyond 1,000 feet as designated by the design engineer.
- The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation.

Hydraulic Testing
The contractor shall provide measurement gauges, pump, pipe, connection, and other necessary apparatuses, unless otherwise specified. Prior to testing the contractor shall place sufficient backfill to prevent pipe movement. The contractor shall ensure that true blocking or other types of restraint systems will provide adequate restraint prior to conducting the hydraulic test.

Test Duration
The duration of the hydraulic test shall be 2 hours.

Test Pressure
The hydraulic test pressure shall not be less than 1.25 times the maximum anticipated operating pressure. The test pressure shall be maintained for the duration of the test. The test pressure shall be maintained for the duration of the test. The test pressure shall be maintained for the duration of the test.

Test Allowance
The testing allowance shall be defined as the quantity of water that must be supplied to the pipe section being tested to maintain the pressure within 5 psi of the specified hydraulic test pressure. The allowance shall be determined by the formula below. All values shall be in the same units as the amount of leakage.

Formula
$$Q = \text{quantity of leakage water in gallons per hour (gph)} \\ D = \text{nominal diameter of pipe in inches (in)} \\ P = \text{average test pressure during the hydraulic test in pounds per square inch (psi)}$$

Calculation
New main shall be thoroughly dechlorinated in accordance with AWWA Standard C651 and then flushed and sampled before being placed in service. Samples shall be collected for microbiological analysis to check the effectiveness of the flushing process. The analysis shall be performed by a laboratory approved by the TCOQ. A minimum of one sample for each 1,000 feet of completed water line will be required. The water line shall be sampled at a point beyond 1,000 feet as designated by the design engineer.

WATER DISTRIBUTION SYSTEM
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS

WATER DISTRIBUTION SYSTEM
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS

WATER DISTRIBUTION SYSTEM
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS
WATER DISTRIBUTION SYSTEM DETAILS

Rental Rate Blue Book®
Caterpillar 938M

4-Wd Articulated Wheel Loaders

Size Class:
175 - 199 HP
Weight:
N/A


Configuration for 938M

Bucket Capacity - Heaped
Operator Protection

6.5 cu yd
ROPS/FOPS

Net Horsepower
Power Mode

168 hp
Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$6,435.00	USD \$1,800.00	USD \$450.00	USD \$68.00	USD \$33.48	USD \$70.04
Adjustments						
Region (Texas: 88.9%)	(USD \$714.28)	(USD \$199.80)	(USD \$49.95)	(USD \$7.55)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$5,720.71	USD \$1,600.20	USD \$400.05	USD \$60.45	USD \$33.48	USD \$65.98

Non-Active Use Rates

	Hourly
Standby Rate	USD \$20.48
Idling Rate	USD \$49.05

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	USD \$2,638.35/mo
Overhaul (ownership)	37%	USD \$2,380.95/mo
CFC (ownership)	12%	USD \$772.20/mo
Indirect (ownership)	10%	USD \$643.50/mo
Fuel (operating) @ USD 3.07	49%	USD \$16.55/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ALLISON CANGELOSI
(acangelosi@jcglc.com)

Rental Rate Blue Book®
Caterpillar CS54B

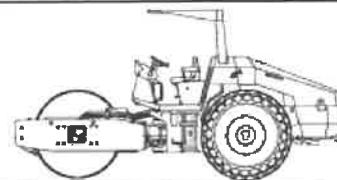
Single Drum Vibratory Compactors

Size Class:

8.0 - 11.9 MTons

Weight:

N/A


Configuration for CS54B

Drum Type	Smooth	Drum Width	84.0 in
Net Horsepower	124.0 hp	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$4,390.00	USD \$1,230.00	USD \$310.00	USD \$47.00	USD \$29.74	USD \$54.68
Adjustments						
Region (Texas: 89.4%)	(USD \$465.34)	(USD \$130.38)	(USD \$32.86)	(USD \$4.98)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$3,924.66	USD \$1,099.62	USD \$277.14	USD \$42.02	USD \$29.74	USD \$52.04

Non-Active Use Rates

	Hourly
Standby Rate	USD \$16.28
Idling Rate	USD \$32.17

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	49%	USD \$2,151.10/mo
Overhaul (ownership)	26%	USD \$1,141.40/mo
CFC (ownership)	13%	USD \$570.70/mo
Indirect (ownership)	11%	USD \$482.90/mo
Fuel (operating) @ USD 3.07	33%	USD \$9.87/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

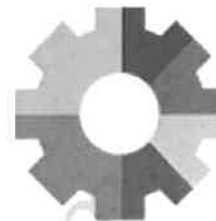
The equipment represented in this report has been exclusively prepared for ALLISON CANGELOSI (acangelosi@jcgllc.com)

Rental Rate Blue Book®

November 18, 2019

Miscellaneous 4X2 1/2 375 CONV GAS

On-Highway Light Duty Trucks

Size Class:
300 HP & Over
Weight:
HP

Configuration for 4X2 1/2 375 CONV GAS

Axle Configuration	4X2	Cab Type	Conventional
Horsepower	375 hp	Power Mode	Gasoline
Ton Rating	1/2		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$1,025.00	USD \$290.00	USD \$73.00	USD \$11.00	USD \$22.24	USD \$28.06
Adjustments						
Region (Texas: 91.4%)	(USD \$88.15)	(USD \$24.94)	(USD \$6.28)	(USD \$0.95)		
Model Year (2019: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$936.85	USD \$265.06	USD \$66.72	USD \$10.05	USD \$22.24	USD \$27.56

Non-Active Use Rates

	Hourly
Standby Rate	USD \$3.78
Idling Rate	USD \$23.20

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	54%	USD \$553.50/mo
Overhaul (ownership)	29%	USD \$297.25/mo
CFC (ownership)	7%	USD \$71.75/mo
Indirect (ownership)	10%	USD \$102.50/mo
Fuel (operating) @ USD 2.51	80%	USD \$17.88/hr

Revised Date: 2nd half 2019

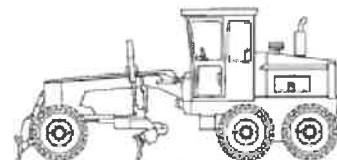
These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ALLISON CANGELOSI (acangelosi@jcgllc.com)

Rental Rate Blue Book®
Caterpillar 140M AWD (disc. 2014)

Articulated Frame Graders

Size Class:
170 - 199 HP
Weight:
N/A


Configuration for 140M AWD (disc. 2014)

Net Horsepower **183.0 hp** Power Mode **Diesel**

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$8,215.00	USD \$2,300.00	USD \$575.00	USD \$86.00	USD \$42.67	USD \$89.35
Adjustments						
Region (Texas: 88.9%)	(USD \$911.86)	(USD \$255.30)	(USD \$63.83)	(USD \$9.55)		
Model Year (2014: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$7,303.13	USD \$2,044.70	USD \$511.17	USD \$76.45	USD \$42.67	USD \$84.17

Non-Active Use Rates

Hourly

Standby Rate	USD \$23.24
Idling Rate	USD \$59.42

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	34%	USD \$2,793.10/mo
Overhaul (ownership)	45%	USD \$3,696.75/mo
CFC (ownership)	11%	USD \$903.65/mo
Indirect (ownership)	11%	USD \$903.65/mo
Fuel (operating) @ USD 3.07	42%	USD \$17.92/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ALLISON CANGELOSI (acangelosi@jcglc.com)

Rental Rate Blue Book®

Caterpillar D5K2 XL

Standard Crawler Dozers

Size Class:
85 - 104 HP
 Weight:
20534 lbs



Configuration for D5K2 XL

Dozer Type	VPAT	Net Horsepower	104.0 hp
Operator Protection	ROPS/FOPS	Power Mode	Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$7,090.00	USD \$1,985.00	USD \$495.00	USD \$74.00	USD \$36.50	USD \$76.78
Adjustments						
Region (Texas: 88.9%)	(USD \$786.99)	(USD \$220.34)	(USD \$54.94)	(USD \$8.21)		
Model Year (2020: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$6,303.01	USD \$1,764.67	USD \$440.05	USD \$65.79	USD \$36.50	USD \$72.31

Non-Active Use Rates

	Hourly
Standby Rate	USD \$16.83
Idling Rate	USD \$49.18

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	USD \$2,127.00/mo
Overhaul (ownership)	52%	USD \$3,686.80/mo
CFC (ownership)	9%	USD \$638.10/mo
Indirect (ownership)	8%	USD \$567.20/mo
Fuel (operating) @ USD 3.07	37%	USD \$13.37/hr

Revised Date: 1st half 2020

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for ALLISON CANGELOSI
 (acangelosi@jcglc.com)

SEXTON, INC.

2472 Washburn Rd.
Luling, TX 78648

Melba Sexton, President
sextoninc@outlook.com
(830) 743-1518

John Sexton, Vice-President
sextoninc@live.com
(830) 743-1516

BID PROPOSAL

DATE: 2/10/2021

Bid Prepared for: Alex Krejchi (James Construction)

Labor	\$4,330 per day
Equipment	\$2,830 per day
Mobilization	\$2,175
Materials	\$32,104.46

Scope: Open cut and install 24" casing in two different areas for water line relocate. The open cuts will be going across C.R. 101 and C.R. 368. This price includes the material, labor, welding, and installation of the casing.

James Construction will be responsible for the traffic control planning and the coordination with Williamson County.

There will need to be a representative on site from Jonah Water S.U.D., Oncor Electric Distribution, and AT&T while excavation is being performed.

This bid expires 30 days from above date with exception of material due to rapidly increasing price of steel. Materials bid good for 5 days from above date.

Signature: Acceptance of Bid

Date

Billing Information: _____

Applicable Sales Tax is not included.

NOTE: This price does not include bedding material or flowable fill. Bedding material will be billed at \$19.00 a yard on a 12-yard truck on an as needed basis. Flowable fill will be billed at \$161.00 a yard with a 3-yard minimum on an as needed basis.



Badger Daylighting Corp

60 Ironhorse Dr.
Hutto, TX 78634
"An equal opportunity employer"

ESTIMATE	
DATE:	2021/01/04
Reference #:	QT-010421-41176
PREPARED BY:	Toby Marriott

Customer Information					
Company:	James Construction	Contact Name:	Alex K		
Contact Phone #:	(254) 718-4392	E-mail:	akrejchi@prim.com		
Billing Address:		Title:	PM		
Bill City/State:		Account #:	8881167		
Service Address:					
Scope of Work					
<p>Badger Daylighting will provide Hydrovac services, Potholing(5) approximate 1' diameter by 4' deep within 20' from the Badger unit with ideal weather and ground conditions. Additional operator and remote hose is required if working farther than 20' of the unit. Additional fees apply. Client will supply onsite representative to provide direction where to conduct services. Any delays outside of Badger's control will be in addition to total billed at normal T&M. Billing is port to port by the hour unless otherwise noted. OT applies after 8 hours. Operators adhere to D.O.T. regulations. 12 hour notice is required for any cancellation or a 4 hour minimum will be applied. Work day may not exceed 14 hours without Badger Management approval.</p>					
Service Item	Item Description	Price	UOM	Qty	Amount
Badger Hydrovac With Operator		\$ 235.00	HR	8	\$ 1,880.00
Badger Hydrovac With Operator Overtime		\$ 265.00	HR	2	\$ 530.00
Supply Water		\$ 55.00	EA	1	\$ 55.00
Support Truck	If needed	\$ 150.00	DAY	0	\$ 0.00
3rd Party Service (DISPOSITION)		\$ 175.00	EA	1	\$ 175.00
Fluctuating Fuel Recovery					\$ 138.60
Total:					\$ 2,778.60

This proposal contains the budgetary estimate to complete the work as described above under the heading "Scope of Work".

If any part of the work varies from that described in Scope of Work, or if unexpected digging conditions are encountered (eg rocks, rubble, roots, etc...), then additional charges shall apply. All work will be done on a time and material basis. All work will be done in accordance with the terms and conditions contained in Badger Daylighting Corp.'s standard terms and conditions (USA) attached hereto.

Company: _____

PO#: _____

Name (please print): _____

Title: _____

Signature: _____

Date: _____

I am authorized to bind the Company



Flasher Equipment Co.
5827 W. US Hwy. 90
San Antonio, TX 78227
210-736-4251

QUOTATION

Quote Date	Quote ID
1/7/2021	EG

Valid Through: 2/6/2021

James Construction Group, LLC

Alexander Krejchi

1760 S. Stemmons Freeway STE 300

Lewisville, TX 75067

Phone: 254-718-4392

Fax: 225-295-4841

Email: akrejchi@prim.com

Job Location:

CO 343 AND CR101

Hutto

Quote Created By: Emilio Garcia

Item Description	Price	UOM	Qty/Day	Days	Total Qty.	Total
Daily set up flagger operation *	\$2,850.00	Per Each	1	5	5	\$14,250.00
RENTAL 28 NIGHT CONE *	\$0.00	Per Each	180	0	0	\$0.00
Rollup Sign 36x36 - Road Work Ahead *	\$0.00	Per Each	4	0	0	\$0.00
Rollup Sign 36x36 - Be Prepared To Stop *	\$0.00	Per Each	4	0	0	\$0.00
Rollup Sign 36x36 - One Lane Road Ahead *	\$0.00	Per Each	4	0	0	\$0.00
Rollup Sign 36x36 - Flagger Symbol *	\$0.00	Per Each	4	0	0	\$0.00
ZEPHYR SIGN STAND *	\$0.00	Per Each	16	0	0	\$0.00

Note: The * indicates taxable items.

4 MAN FLAGGING OPERATION - PRICE INCLUDES SET UP AND
TAKE DOWN, LABOR UP TO 10 HRS. AND EQUIPMENT. DAILY
RATE OF \$ 2,850.00 + TAX.

SUBTOTAL	\$14,250.00
SALES TAX (8.25%)	\$1,175.63
QUOTE TOTAL	\$15,425.63

Scope: This quote is based on estimated quantities. You will be billed for the actual quantity of units per each item at the rate indicated above.

Emilio Garcia
Flasher Equipment Co.

1/7/2021

Date

Accepted By:

Signature

Print Name

Title

Company



James Construction PSC
7406 I35 Frontage Rd
Belton, TX 76513

PO Box 2675
Pflugerville, TX 78691
accounting@mccarmaterials.com

Quote

Effective Date: 010/09/19

Thank you for your quote request. Please review the information below and return the signed quote for approval.

Project Name: CR 101
Address: Hutto
PO Number: N/A

Material	Quantity	Rate	Per
1" Utility Rock		\$6.50	ton
1 ½" Utility Rock		\$6.25	ton
1x2" MSE Backfill		\$6.50	ton
2x3" Backfill		\$7.50	ton
3x5" Bull Rock		\$7.50	ton
Non Spec Base		\$4.50	ton
Flex Base (TxDot Gr.1,2,3,5)		\$5.00	ton
Flex Base (Wilco Gr. 4)		\$5.25	ton

Thank you for the opportunity to earn your business. If you wish to discuss the items in this quote, please call us directly.

Terms & Conditions:

- **Acceptance:** Quote must be signed and returned by 11/09/2019 to be accepted
- **Terms:** Payments due NET 10 Prox

Thank you for your business!

Quotes are subject to the terms and conditions listed above. Quotes MUST
be signed and returned prior to the commencement of the project.

Quotes are to be signed and returned via email

By: _____
(Signature) (Date)

(Print Name)

(Title)



777 CR 131
Hutto, TX 78634
737.444.8623
bids@nuneztruckinginc.com

James Construction Group, LLC
PO Box 90022
Baton Rouge, LA 70879-9022

Quote

Effective Date: 01/27/2020

Thank you for your quote request. Please review the information below and return the signed quote for approval.

Project: CR 101 Improvements

Haul Type	Origin	Rate	Per
Freight	McCar Materials	\$5.90	Ton

Thank you for the opportunity to earn your business. If you wish to discuss the items in this quote, please call us directly.

Terms & Conditions:

- **Acceptance:** Quote must be signed and returned by 02/28/2020 to be accepted
- **Fuel:** Gulf Coast Daily Average at time of Quote \$2.797 per/gal (Round to nearest .05)
- **Fuel Surcharge:**
- **Material:** Material cost are subject to change based on current supplier rates
- **Terms:** Payments due NET 30 from date on invoice

Special Provisions:

- A wait time fee of \$85/hour will be charged for any truck on standby at site

Thank you for your business!

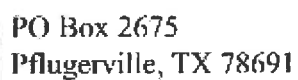
Quotes are subject to the terms and conditions listed above. Quotes MUST be signed and returned prior to the commencement of the project.

Quotes are to be signed and returned via email

By: _____
(Signature) (Date)

(Print Name)

(Title)



Date 8/4/2020

Invoice # 41903

James Construction Group, LLC
1760 S. Stemmons Fwy
STE 300
Lewisville, TX 75067

Project

CR 101 Project
From: Texas Materials

TW

Total

\$195.71

Phone #	E-mail	Terms
737-444-8623	accounting@nuneztruckinginc.com	Net 30



A CRH COMPANY
1320 Arrow Point Dr Suite 600
Cedar Park, TX 78613

Customer No: 241920
Invoice No: 200894214
Inv Date: 08/03/20
Page: Page 1 of 1
Customer PO: 524572

James Construction Group LLC
5880 W US Highway 190
Belton TX 76513-8148

Texas Materials
1320 Arrow Point Dr Suite 600
Cedar Park, TX 78613
512-861-7100

ccarpenter@prim.com
accounts payable@prim.com

Delivered To: ~~JOB 1783 CR 110~~
Job 10783 CR101

Date	Ticket#	Product#	Description	QTY	UM	Unit Price	Haul QTY	Haul Rate	Matl Total	Haul Total	Tax	Total
Plant: 04267 Asphalt - Manor												
JOB # / PO #		/ 524572										
MATERIAL: COLD MIX D .6												
08/03/20	243172	225070	COLD MIX D .6	24.68	TON	71.00	0.00	0.00	1,752.28	0.00	144.56	1,896.84
Total : COLD MIX D .6				24.68	TON				1,752.28	0.00	144.56	1,896.84
Total : Material COLD MIX D .6				24.68					1,752.28	0.00	144.56	1,896.84
Total Invoice:				24.68					1,752.28	0.00	144.56	1,896.84

You can now access your invoices and make payments through our customer portal. Register now by clicking on <https://mytexasmaterialsgroup.com>. Please note that the new remit to suite number has been changed to # 307.

Terms: Net 30.



Invoice Amount: 1,896.84

Amount Paid: _____

Customer Name: James Construction Group LLC
Customer No: 241920
Invoice #: 200894214
Date: 08/03/20
Customer PO: 524572
Due Date: 08/02/20

If you have any questions about your invoice please call 512-861-7100

Remit Payment To: Texas Materials Group, Inc.
1320 Arrow Point Dr
Suite 307
Cedar Park, TX 78613

Please provide your email address below if you would like to start receiving your invoices via email

Change Order Proposal

Date: 2/11/2021

Proposal# O10783-02.2



Bill To:

Eddie Chruch
HNTB Corporation
101 E. Old Settlers Blvd, Suite 100
Round Rock, TX 78664

RE:

Williamson
CR 101
Project No.: 2138
Control No.: 2138

Qty	UM	Description	Unit Price	Total
170.00	LF	Materials (Casing, Pipe, Bedding, and Backfill)	\$264.54	\$44,972.54
5.00	DAY	Daily Rate to Install Crossing	\$10,765.46	\$53,827.28
7.00	DAY	Daily Rate for Flagging	\$3,583.37	\$25,083.61
2.00	DAY	Daily Rate to Pothole for Existing Utilities	\$3,227.34	\$6,454.69
			Total	\$130,338.11