

**INTERLOCAL AGREEMENT REGARDING
RELOCATION OF WATER SYSTEM IMPROVEMENTS
Corridor C- SH 29 Bypass (Sam Houston Avenue)**

THE STATE OF TEXAS §
 § KNOW ALL BY THESE PRESENTS:
COUNTY OF WILLIAMSON §

THIS INTERLOCAL AGREEMENT REGARDING RELOCATION OF WATER SYSTEM IMPROVEMENTS (“Agreement”) is entered into between Jonah Special Utility District (the “**District**”) and Williamson County, a political subdivision of the State of Texas (the “**County**”). In this Agreement, the District and the County are sometimes individually referred to as “**a Party**” and collectively referred to as “**the Parties**.”

WHEREAS, the County is and has been in the process of designing a new roadway known as Corridor C-SH 29 Bypass, the location of which is shown on Exhibit “A”, attached hereto (the “County Project”); and

WHEREAS, some of the proposed County Project includes the widening of the right-of-way into easements in which the District’s water system improvements are or will be located; and

WHEREAS, the Parties have determined that, because of the County Project, the relocation of District water lines are necessary (the “Relocation Project”); and

WHEREAS, plans and specifications for the relocation of the District water lines affected by the County Project have been prepared by the District and are attached hereto as Exhibit “B” (the “Plans”); and

WHEREAS, this Agreement sets forth the terms and conditions pursuant to which the County shall relocate the District’s water system improvements and construct water system betterments in certain segments of the County Project.

NOW, THEREFORE, in consideration of the foregoing premises and the mutual promises and agreements of the Parties contained in this Agreement, the Parties agree as follows:

**I.
STATEMENT OF INTENT**

1.01 General. The purpose of this Agreement is to provide for the County’s relocation and construction of the Relocation Project caused by the County’s construction of the County Project.

1.02 County Relocation of Waterlines. The County will, at its own expense, pay all costs related to the Relocation Project in accordance with the Plans, with the exception of additional costs related to improvements to the waterlines (the “Betterment”) detailed in the

Betterment Calculations attached hereto as Exhibit "C" and as outlined in the Betterment Costs section below. As stated below, the County will reimburse the District for all costs related to the design of the Plans.

1.03 County to Obtain Easements. The County agrees to acquire at its own expense all necessary easements required by the District for the County Project and the Relocation Project as shown in the Plans. This Agreement specifically allows the County's right-of-way attorneys to acquire easements by eminent domain, if necessary. The form of the easement shall be approved by the District prior to acquisition. The District is not responsible for costs associated with easement acquisition for the County Project or Relocation Project. Any easements acquired as set out herein shall be assigned by the County to the District upon completion of construction of the Relocation Project.

1.04 County to Obtain Permits. The County must secure all permits required for construction of the County Project and the Relocation Project, and is responsible for the costs associated with the permits. The District is not responsible for costs associated with permitting of the County Project or Relocation Project.

1.05 District Obligations. The District shall be responsible for the design of the plans including specifications. The District will submit invoices for design costs to the County, and the County must reimburse 34.20% of District's costs pursuant to the Prompt Payment Act, Chapter 2251 of the Texas Government Code. After acceptance of the waterline relocations, the District will own and maintain said waterlines at their sole cost and expense.

1.06 Continuation of Service. The County agrees that both the County Project and the Relocation Project shall be undertaken so as to minimize any disruption of water service to existing customers of the District and will not result in prolonged or permanent loss of water service to any such customers.

II. CONSTRUCTION OF PROJECT

2.01 General. The Parties mutually acknowledge and agree that the County shall, at its own expense, construct all physical improvements that constitute the County Project and the Relocation Project, subject to reimbursement of any Betterment Costs as described herein.

2.02 Calculation of Betterment Costs. The District's engineer will determine betterment percentages by calculating the Engineer's Opinion of Probable Cost ("EOPC") for the construction of water lines that are larger than the original lines they are replacing ("betterment construction") and the EOPC for the construction of water lines that are the same size as the original lines ("like-kind" replacement construction), then by determining the percentage of the "like-kind" cost versus the betterment cost. The District's engineer will work with the County's engineer to seek approval of the betterment percentages.

2.03 Betterment Costs. The District shall be responsible for 100% of all costs related to the design and construction of the waterline betterment portion of the Relocation Project. The

betterment Calculations attached hereto as Exhibit "C" estimate the cost of the betterment using the most recent EPOC.

2.04 Payment and Maintenance. The District's share of the Construction Costs will be due and payable to the County 30 days after the District provides written acceptance of the completed Relocation Project. After acceptance, the District will own and maintain the facilities included within the Relocation Project.

2.05 Construction Plans. The District must submit the Plans related to the Relocation Project, and any changes or modifications thereto, to the County for review and approval prior to the County progressing with construction. The Plans will be jointly bid and constructed with the County Project.

2.06 Inspection. The District may inspect the relocation of the waterlines during construction. If the District's inspectors determine that the construction by the County is not in accordance with the approved Plans and upon receipt of such notification from the District, the County shall cease construction until the deficiency can be identified, and a corrective plan of construction implemented with the written agreement of the District.

2.07 As-Built Drawings. Upon completion of construction of the Relocation Project, County will provide District with the as-built drawings of the Relocation Project.

2.08 Future Relocations. Should the County or its successors require the relocation of the District water system improvements previously relocated by this Agreement, the County shall, at its own expense, be responsible for all costs associated with said relocation, including the acquisition of new easements, if necessary. The obligations of this section survive any termination of this agreement.

2.09 Insurance, Bonds and Warranties. The County shall require the contractor for the County Project and the Relocation Project to name the District as an additional insured on any policies related to the County Project or Relocation Project as applicable. The County shall require the contractor to provide performance bonds, payment bonds and maintenance bonds in favor of the District for the County Project and Relocation Project in amounts satisfactory to the District. The County shall transfer any warranties for the Relocation Project to the District upon final completion and the District's written acceptance of the Relocation Project.

III. DISPUTES

3.01 Material Breach; Notice and Opportunity to Cure.

(a) In the event that one Party believes that another Party has materially breached one of the provisions of this Agreement, the non-defaulting Party must make written demand to cure and give the defaulting Party up to 30 days to cure such material breach or, if the curative action cannot reasonably be completed within 30 days, the defaulting Party must commence the curative action within 30 days and thereafter diligently pursue the curative action to completion. Notwithstanding the foregoing, any matters specified in the default notice that may be cured solely by the payment of money must be cured within 10 days after receipt of the notice. This applicable

time period must pass before the non-defaulting Party may initiate any remedies available to the non-defaulting party due to such breach.

(b) Any non-defaulting Party must mitigate direct or consequential damage arising from any breach or default to the extent reasonably possible under the circumstances.

(c) The Parties agree that they will negotiate in good faith to resolve any disputes and may engage in non-binding mediation, arbitration or other alternative dispute resolution methods as agreed and allowed by the laws of the State of Texas.

3.02 Equitable Relief. In recognition that failure in the performance of the Parties' respective obligations could not be adequately compensated in money damages alone, after providing notice and an opportunity to cure in accordance with Section 3.01 above, the non-defaulting Party shall have the right to request any court, agency or other governmental authority of appropriate jurisdiction to grant any and all remedies which are appropriate to assure conformance to the provisions of this Agreement. The defaulting Party will be liable to the other for all costs actually incurred in pursuing such remedies and for any penalties or fines as a result of the failure to comply with the terms including, without limitation, the right to obtain a writ of mandamus or an injunction requiring the governing body of the defaulting Party to levy and collect rates and charges or other revenues sufficient to pay the amounts owed under this Agreement.

3.03 Agreement's Remedies Not Exclusive. The provisions of this Agreement providing remedies in the event of a Party's breach are not intended to be exclusive remedies. The Parties retain, except to the extent released or waived by the express terms of this Agreement, all rights at law and in equity to enforce the terms of this Agreement.

IV. GENERAL PROVISIONS

4.01 Authority. This Agreement is made in part under the authority conferred in Chapter 791, *Texas Government Code*.

4.02 Severability. The provisions of this Agreement are severable and, if any provision of this Agreement is held to be invalid for any reason by a court or agency of competent jurisdiction, the remainder of this Agreement will not be affected, and this Agreement will be construed as if the invalid portion had never been contained herein.

4.03 Payments from Current Revenues. Any payments required to be made by a Party under this Agreement will be paid from current revenues available to the Party for such purpose.

4.04 Cooperation. The Parties agree to cooperate at all times in good faith to effectuate the purposes and intent of this Agreement.

4.05 Entire Agreement. This Agreement contains the entire agreement of the Parties regarding the subject matter hereof and supersedes all prior or contemporaneous understandings or representations, whether oral or written, regarding the subject matter and only relates to those portions of the County Project or Relocation Project shown in the Plans.

4.06 Amendments. Any amendment of this Agreement must be in writing and will be effective if signed by the authorized representatives of the Parties.

4.07 Applicable Law; Venue. This Agreement will be construed in accordance with Texas law. Venue for any action arising hereunder will be in Williamson County, Texas.

4.08 Notices. Any notices given under this Agreement will be effective if (i) forwarded to a Party by hand-delivery; (ii) transmitted to a Party by confirmed fax machine; or (iii) deposited with the U.S. Postal Service, postage prepaid, certified, to the address of the Party indicated below:

DISTRICT:

Jonah Water Special Utility District
4050 FM 1660
Hutto, Texas 78634
Attn: General Manager
Telephone: (512) 759-2983

With a Copy to:

John Carlton
The Carlton Law Firm P.L.L.C
4301 Westbank Drive, Suite B-130
Austin, Texas 78746
john@carltonlawaustin.com

COUNTY:

Williamson County
710 Main Street, Suite 101
Georgetown, Texas 78626
Attn: County Auditor
Telephone: (512) 943-1577

4.09 Counterparts; Effect of Partial Execution. This Agreement may be executed simultaneously in multiple counterparts, each of which will be deemed an original, but all of which will constitute the same instrument.

4.10 Authority. Each Party represents and warrants that it has the full right, power and authority to execute this Agreement.

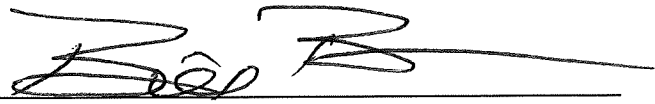
4.11 Effective Date. This Agreement is effective on the last date of execution by the authorized representative of each Party.

(SIGNATURES ON THE FOLLOWING PAGE)

ATTEST:

**JONAH WATER SPECIAL UTILITY
DISTRICT:**


Erica Guerrero

By: 
Bill Brown, General Manager

Date: 6-20-2023

ATTEST:

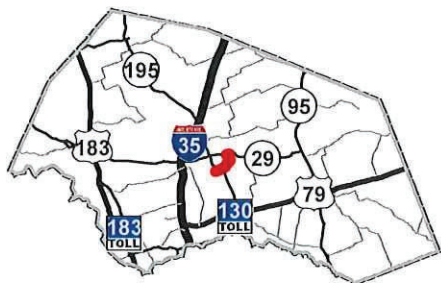
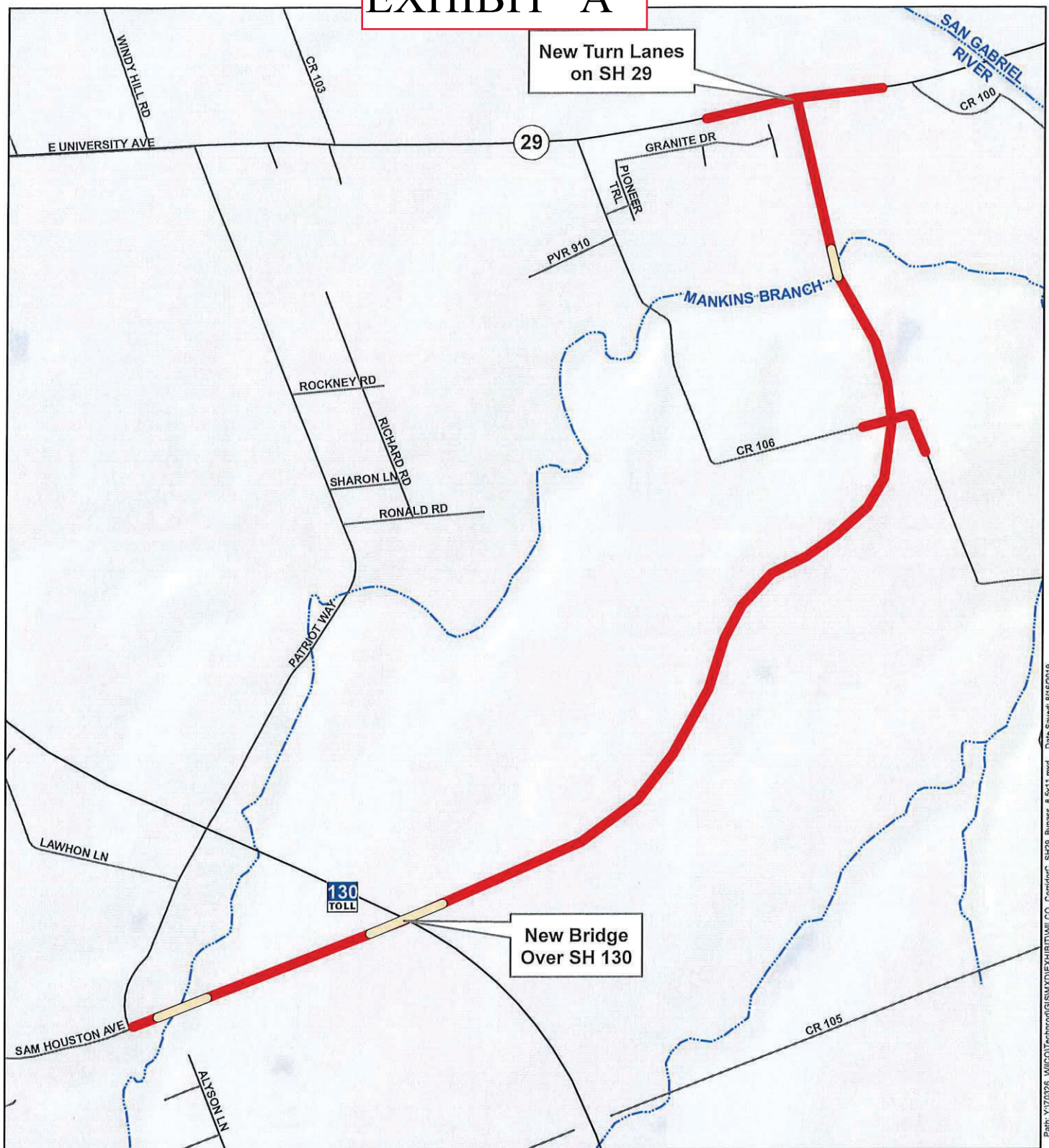
Nancy Rister, County Clerk

WILLIAMSON COUNTY:

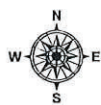
By: _____
William Gravell, Jr., County Judge

Date: _____

EXHIBIT "A"



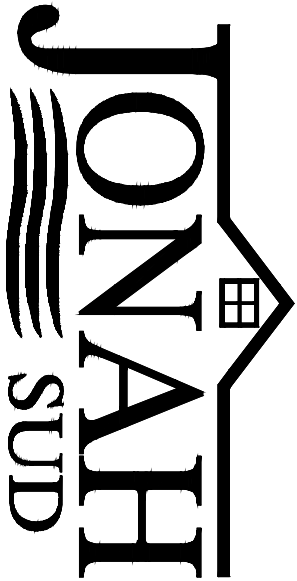
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Feet

Project Location
Bridge

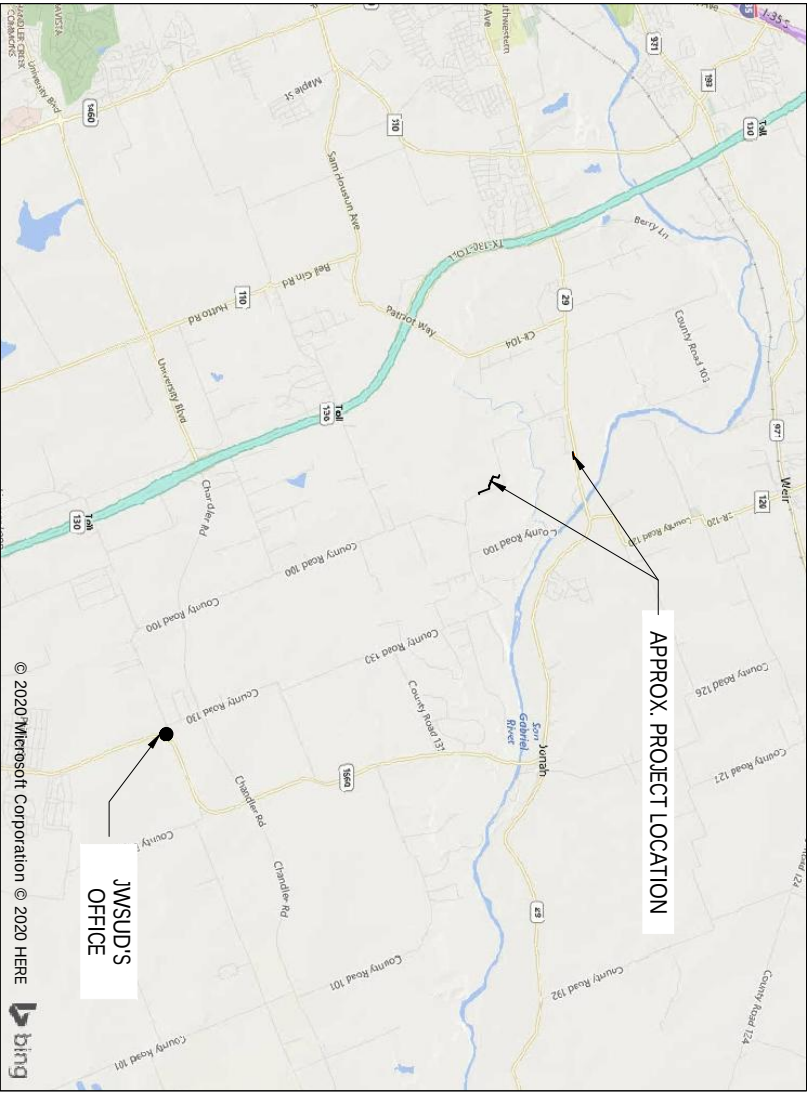
2020 - SH 29; Corridor "C", Utility Adjustments



4050 FM 1660
HUTTO TEXAS 78634
1-512-759-1286
PWS ID 246002
CCN ID 10970

GENERAL CONSTRUCTION NOTES

1. THESE PLANS DO NOT INDICATE DETAILED TOPOGRAPHY, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PROJECT BEFORE SUBMITTING BIDS TO DETERMINE LOCATIONS OF VARIOUS TOPOGRAPHIC FEATURES THAT COULD AFFECT CONSTRUCTION METHODS
2. THE CONTRACTOR SHALL NOTIFY:
 - 2.1. THE ROAD HIGHWAY MAINTENANCE FOREMAN
 - 2.2. RAILROAD SUPERINTENDENT
 - 2.3. COUNTY COMMISSIONER
 - 2.4. APPLICABLE CITY
 - 2.5. APPLICABLE UTILITY COMPANIES48 HOURS PRIOR TO STARTING UTILITIES, AND SHALL BE SUBJECT TO INSPECTION AND COMPLIANCE WITH THE ABOVE AUTHORITIES.
3. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.
4. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
5. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF POTABLE WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
6. WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
7. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
8. COORDINATE ANY PLANNED INTERRUPTIONS TO SERVICE WITH THE APPLICABLE UTILITY PURVEYOR A MINIMUM 48 HOURS IN ADVANCE
9. ANY AND ALL OBJECTS THAT BECOME DAMAGED AND/OR DESTROYED BY THE CONSTRUCTION PROCESS SHALL BE REPLACED OR RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED JUST PRIOR TO THE INCIDENT OR INCIDENTS.
10. PROPERTY OWNERS SHALL HAVE ACCESS TO THEIR RESPECTED PROPERTY DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE PROPERTY OWNER BEFORE ANY ACCESS TO THE BE DENIED FOR ANY PERIOD OF TIME. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THAT ACCESS IS ACHIEVED IN THE PERIODS OF THE CONTRACTOR'S ABSENCE.
11. TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH TCP(1-1)-12 THROUGH TCP(1-6)-12. SEE <https://www.dot.state.tx.us/insdtdotorgchar/tcmd/cserve/standard/toc.htm> FOR SHEETS.



Sheet Index:	
G1	GENERAL NOTES
G2	PROJECT TAKE OFF
K1	KEY MAP
1	SH 29 INTERSECTION
2	STA B-0+00 TO B-3+50
3	STA B-3+50 TO B-10+90
4	STA B-10+90 TO B-17+82
5	DETAILS
6	DETAILS
7	DETAILS
8	TOP

PROJECT SPECIFIC NOTES:

1. SCHEDULE ALL PLANNED INTERRUPTIONS TO WATER SERVICE WITH JONAH WATER S.U.D. AT LEAST 48 HOURS IN ADVANCE.
2. FIELD VERIFY DEPTH AND LOCATIONS OF ALL EXISTING APPLICABLE UTILITIES.
3. COORDINATE AND GIVE PROPER NOTICE TO OWNER OF POSSIBLE INTERRUPTIONS TO SERVICE.
4. ALL COMPONENTS OF THIS PROJECT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
5. WILL CO ROADWAY R.O.W. AND OTHER PROPOSED INFRASTRUCTURE SHOWN WAS PROVIDED BY WILLIAMSON COUNTY REPRESENTATIVES DATED 6/12/2020. CHANGES THAT MAY HAVE OCCURRED SINCE THAT TIME ARE NOT INCLUDED IN THESE DOCUMENTS.

APPROVED



THIS DOCUMENT IS ISSUED
ONLY FOR THE PURPOSES
OF CONSTRUCTION

CIVIL ENGINEER

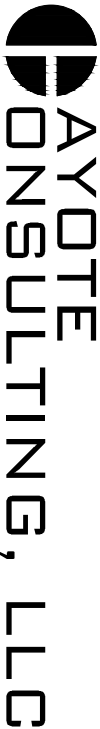
5/19/2022
DATE APPROVED

DOCUMENT TO BE APPROVED BY OWNER ONCE PROPOSED
VARIATIONS ARE OBTAINED BY WACO.

OWNER

DATE APPROVED

JONAH WATER S.U.D.
2020 - SH 29; Corridor "C", Utility Adjustments



T.B.P.E. F-16387
P.O. Box 24189
Waco, TX 76702
Ph. 254-744-3439
MILES@CAYOTECON.COM

EXHIBIT "B"

A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P	
General notes:																															
1) The proposed roadway, drainage, existing utilities shown on these plans were received by Jonah Water S.U.D. from their representatives. It shall be the Contractor's responsibility to familiarize themselves with the County's project documents, so that any discrepancies can be avoided.																															
2) Various portions of the work shall be performed on private property as shown in the drawings. The owner has or is obtaining right of entry permission, permanent easement, or permanent right of way for all portions of private property requiring work. In addition to areas where there are pre-existing permanent easements, unless noted otherwise in project special provisions, the contractor shall not access or disturb private property without giving notice to each private property owner at least one week prior to construction activities on their property, including an estimated duration that their property will be affected. Every effort shall be made by the contractor to schedule work to minimize disruption to property owners. Upon completion of work (or process of work), private properties shall be restored to existing or better conditions, than that of those that existed just prior to the beginning of construction.																															
3) The locations of underground utilities as shown herein are based on above ground structures, record drawings, or information from utility companies. Locations of underground utilities structures may vary from locations shown herein. Additional buried utilities structures may be encountered. Before excavations are begun, the following entities shall be contacted for verification of utility type and field locations: a. Gas, telephone, electric, fiber optic, oil, call Texas 811 at 800-344-8377 b. Water: call the Jonah Water																															
4) The Contractor shall protect the existing utilities lines ahead of the pipeline installation to verify adequate space is available for the trenching of the proposed lines. If the proposed trench for the water lines and the existing location of the utility lines are to become in conflict, the Contractor shall at his cost provide excavation and possible shoring up of the conflicting utilities, to allow for the trenching of the proposed water lines. The Contractor protect the existing utility lines at their expense and shall place the line back into its original alignment once the trench is being backfilled. It will be imperative that the contractor shall compact the trench so to not allow excessive settlement that could damage the exiting utility line.																															
5) If shoring of lines is required, the Contractor shall notify the utility's owner of the process that is to take place at least 72 hours in advance to schedule inspections and assistance from the utility's owner. No separate payment for the costs associated with this process, shall be made and shall be subsidiary to the other applicable costs.																															
6) Prior to beginning any construction, the contractor shall verify horizontal and vertical locations of all known existing utilities which will either be connected to, adjacent, or crossed, if there are any conflicts between proposed and existing utilities, or if the existing utilities are in any way different from what is shown on the drawings. It shall be the contractor's responsibility to notify the engineer before proceeding with any construction. The contractor shall work with the engineer in resolving such conflicts before proceeding with work.																															
7) Any uncalled for or incorrectly located underground piping, or a break located in the line, or other utilities and services are encountered during work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.																															
8) Contractor shall take all due precautions to protect existing facilities and features from damage during construction, including all features on private property (trees, landscaping irrigation, fences, etc.) and franchise utilities. Any damage to existing features that are not called to be removed shall be repaired or restored to conditions equal to or greater than those just prior to the beginning of construction, by the Contractor, at no additional cost to the owner.																															
9) Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the Owner.																															
10) Protect mailboxes and other features located within the R.O.W. If features conflict with proposed construction, contractor shall remove, bid items, and reinstall features accordingly (temporary mailboxes may be required). Protecting installed features is subsidiary to other bid items.																															
11) Contractor shall not store materials, equipment or other construction items on adjacent properties or ROW without the prior written consent of the property owner, the City, County and/or State (or within ROW).																															
12) The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.																															
13) The contractor shall protect all survey control during construction and be responsible for damaged control.																															
14) Contractor shall be responsible for performing all construction staking.																															
15) Contractor shall be responsible for protecting all property pins for the duration of construction. Any pins disturbed during construction shall be replaced by the contractor at no additional cost to the owner.																															
16) Contractor shall always maintain a clean construction site free from trash, litter, blowing debris, and silt runoff.																															
17) The contractor shall keep accurate records of all construction that deviates from the plans. The contractor shall furnish the Owner accurate Record Drawings following completion of all construction.																															
18) When construction is being carried out within easements, the contractor shall confine their work within the permanent and any temporary easements. Prior to final acceptance, the contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the property owner and/or Owner.																															
19) Contractor to trench in such a manner as to separate topsoil, stockpile, and place on top layer of trench.																															
20) When work requires a permit, the contractor shall follow the provisions of the permit.																															
21) Pre-Construction Site Video: Before the start of any construction, The Project shall be video recorded by the Contractor with one copy submitted to the Owner's Inspector. A pre-site video is to provide accurate documentation of the existing conditions.																															
22) Power Pole Bidding: Contractors should be advised that there are existing overhead utility poles along the project. Contractors should further be advised that if the distance from the outside face of a utility trench to the face of a utility pole is less than 5 feet, said utility pole is subject to broaching, based on a determination made by utility pole owner. Costs incurred by Contractor for broaching of these utility poles is made through a separate bid item, no additional payment shall be made. It is advisable for the Contractor to review the construction documents and visit the construction site to determine potential impacts.																															
23) Holiday Work: Contractors will not be allowed to perform work on Owner recognized holidays.																															
24) Weekend Work: Contractors are required to notify the Owner/Project's Inspector 48 hours in advance to request weekend work. Submitted requests do not grant automatic acceptance of request.																															
25) All work installed without holiday/weekend approval will be subject to be uncovered for proper inspection, at no additional cost to the Owner/Project.																															
26) The contractor shall be responsible for training his employees and subcontractors in the recognition and avoidance of unsafe conditions, and in the regulations and hazards which apply to the area in which the work will take place.																															
27) All contract work in these drawings shall be carried out in accordance with the latest editions of the following national codes and standards:																															
a) International Building Codes, 2012 (IBS2012). b) American Society of Civil Engineers (ASCE) 7- 02. c) Occupational Safety and Health Administration (OSHA). d) National Fire Protection Association (NFPA). e) National Fire Code (NFC).																															
28) The Contractor shall dispose of all materials removed which are not to be reinstalled or salvaged on the project. Dispose of materials shall be the responsibility of the contractor.																															
29) Unless prior permission is obtained from the owner's representative, the contractor shall confine all construction activity, staging areas, etc., within the limits of construction.																															
30) Disruptive barricades, warnings and lighting will be employed for safety and traffic flow. All work shall be done in accordance with the Texas Manual of Uniform Control Devices for Streets and Highways.																															
31) Excavations shall not be made during inclement weather. Water accumulation in excavations exceeding 1 inch shall be pumped out before concrete is placed.																															
32) The contractor shall be solely responsible for the design and implementation of a trench safety program. The contractor shall appoint a trench safety person who will always be on site during trenching or excavation is underway. All excavations shall comply with the Texas Occupational Safety and Health (OSHA) standards, 29 CFR 1926.650 through 1926.652. Excavation shall be supervised by an engineer registered in the State of Texas. The excavation plan shall indicate the procedures to be used by the contractor to comply with the OSHA requirements. The excavation plan shall identify the "competent person" as required by paragraph 1926.651 (4)(i), with the United States Department of Labor, that will work with each crew.																															
33) The contractor shall protect property from damage due to the progress of the work. Any damage to private property shall be reported or replaced by the Contractor at his own expense.																															
34) The Contractor shall remove, replace, and restore to original condition, elevation, and location, all existing curbs, mailboxes, fences, and other existing improvements, including driveways and roads encountered during construction. All encroachments shall be restored immediately, ingress and egress to the property adjacent to construction ion shall be maintained by the Contractor.																															
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1	Item No.	Item Description	1	2	3	4	Project Totals									
	1	16" C-905, DR-18 PVC Pipe; w/ Tracer Wire; Installed			7											
2	2	12" C-900, DR-18 PVC Pipe; w/ Tracer Wire; Installed	212				212									
	3	6" C-900, DR-18 PVC Pipe; w/ Tracer Wire; Installed	42				42									
3	4	4" C-900, DR-18 PVC Pipe; w/ Tracer Wire; Installed		350	155	732	1,237									
	5	24" Steel Enc. Pipe, Open Cut with 16" C-905, DR-18 RJ Carrier Pipe; Installed			545		545									
4	6	20" Steel Enc. Pipe, Open Cut with 12" C-905, DR-18 RJ Carrier Pipe; Installed	160				160									
	7	8" Steel Enc. Pipe, Open Cut with 4" C-905, DR-18 RJ Carrier Pipe; Installed			545		545									
5	8	16" Gate Valve, Box, and Marker; Installed			2		2									
	9	12" Gate Valve, Box, and Marker; Installed	2				2									
6	10	6" Gate Valve, Box, and Marker; Installed	3				3									
	11	4" Gate Valve, Box, and Marker; Installed		1	2	1	4									
7	12	Air/Vacuum Relief Valve and Marker; Installed			1		1									
	13	Connect New 6" to Existing 6"; Installed	1				1									
8	14	Connect New 6" to Existing 5"; Installed	2				2									
	15	Connect Existing 4" to New 1.5"; Installed		1		1	2									
9	16	16" Capped Stub Out; Installed			2		2									
	17	12" Capped Stub Out; Installed	2				2									
10	18	Cap Existing 5" Waterline; Installed	2				2									
	19	Cap Existing 1.5" Waterline; Installed		1		1	2									
11	20	Install New Flush Valve Assembly; Installed				1	1									
	21	Install New Fire Hydrants Assembly; Installed	1				1									
12	22	Trench Safety	414	350	1252	732	2,748									
	23	Storm Water Pollution Prevention Plan Design and Implementation					1									
13	24	Traffic Control Plan Development and Implementation					1									
	25	Mobilization (Not to Exceed 10% of Total Project Bid)					1									

CKD	BY	DATE	REVISION DESCRIPTION

Jonah Water S.U.D.

Williamson County, Texas

2020 - SH 29; Corridor "C", Utility Adjustments

project take-off

DESIGN: MMW

DRAWN: MMW

CHECKED: MMW

SEAL: 

APPROVED:

DATE: 5/19/22

THIS DOCUMENT IS ISSUED FOR BIDDING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION

EXISTING LEGEND

1

EDGE OF ROAD

—

2

OVERHEAD LINE

— E —

3

DIRT ROAD

—

4

UNDERGROUND CABLE

— CB —

5

WATERLINE

— W —

6

FENCE

— □ —

7

FIBER OPTIC CABLE

— F □ —

8

PETROLEUM LINE

— G —

9

GAS LINE

— G —

10

TELEPHONE LINE

— T —

11

WATERLINE EASEMENT

12

SIGN

○

13

POWER POLE

○

14

GUY

└

PROPOSED LEGEND

A-1+100

WATERLINE W/ STATIONING

=====

A-4+100

CASING W/ CARRIER PIPE

=====

— SF —

TEMPORARY CONSTRUCTION EASEMENT (TCE)

— SF —

SILT FENCE

—

□

BLOW OFF VALVE ASSEMBLY

□

◇

AIR/VACUUM RELIEF ASSEMBLY

◇

⊗

GATE VALVE

⊗

☀

FIRE HYDRANT

☀

▲

WATERLINE MARKER

▲

○

FENCE POST

○

⊙

WELL

⊙

└

MARKER

└

○

CLEAN OUT

○

⊙

WATER METER

⊙

⊗

WATER VALVE

⊗

⊗

BOLLARD

⊗

⊙

GUARD RAIL POST

⊙

⊙

VENT

⊙

⊙

STORM MANHOLE

⊙

⊙

SEWER MANHOLE

⊙

⊙

FIRE HYDRANT

⊙

⊙

WATER VAULT

⊙

⊙

BORE LOCATION

⊙

⊙

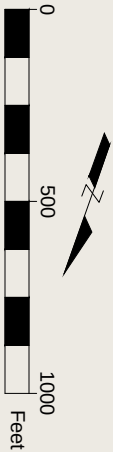
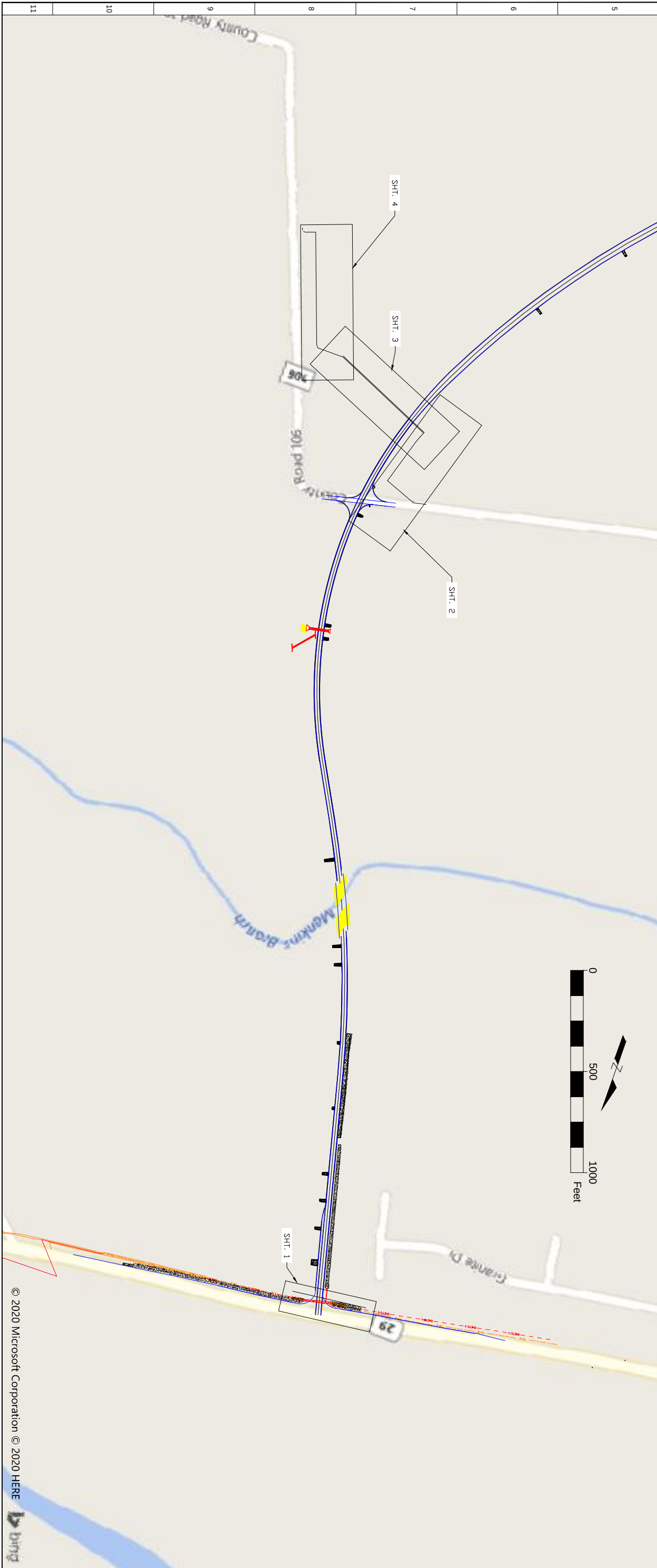
TELEPHONE

⊙

⊙

ELECTRIC STRUCTURE

⊙



REVISION DESCRIPTION

DATE

BY

KCD

AYOTE CONSULTING, LLC

T.B.P.E. F-16387

P.O. Box 24189
Waco, TX 76702

Ph. 254-744-3439

DATE: 7/21/20

APPROVED:

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SEAL:

Jonah Water S.U.D.

Williamson County, Texas

2020 - SH 29; Corridor "C", Utility Adjustments

key map

DESIGN: MMW

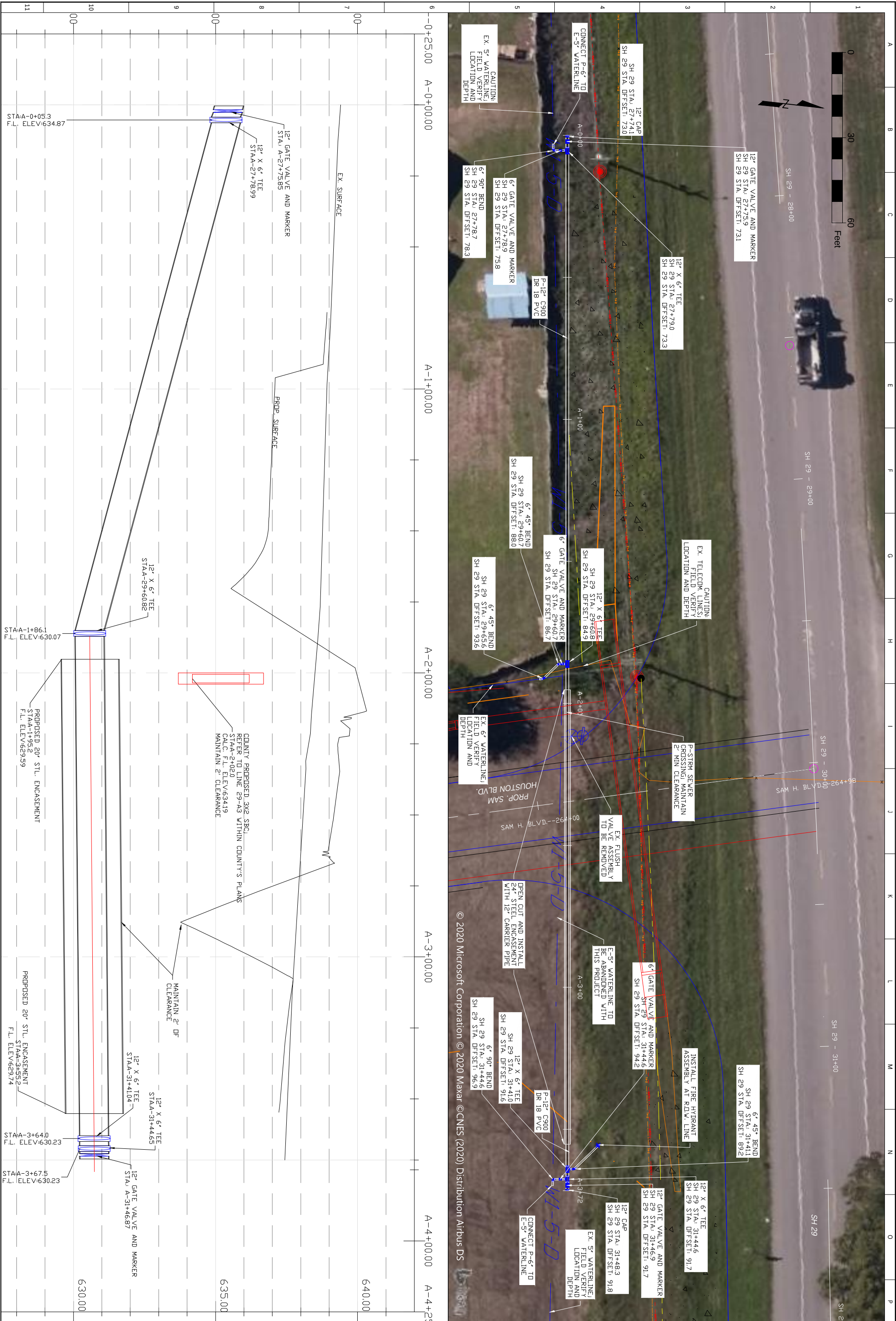
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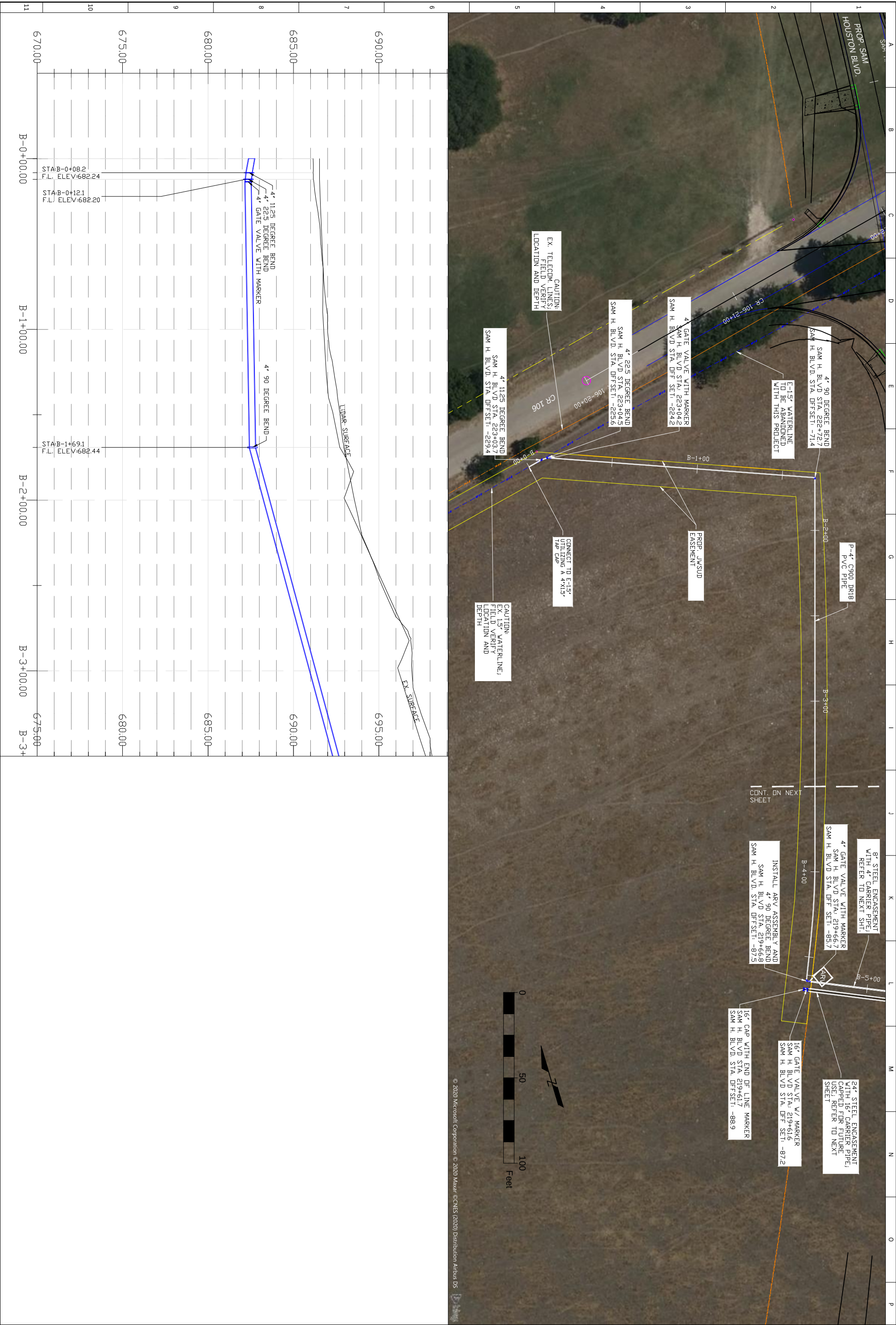
SEAL:

SHEET 14

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SHEET 1		APPROVED:		DESIGN: MMW	Jonah Water S.U.D. Williamson County, Texas 2020 - SH 29; Corridor "C", Utility Adjustments SH 29 INTERSECTION	REVISION DESCRIPTION	DATE	BY	CHK
		DRAWN: MMW							
		CHECKED: MMW							
		DATE: 7/21/20							



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Jonah Water S.U.D.
Williamson County, Texas
2020 - SH 29; Corridor "C", Utility Adjustments
STA. B-0+00 TO B-3+50

NO.	REVISION DESCRIPTION	DATE	BY	CHKD

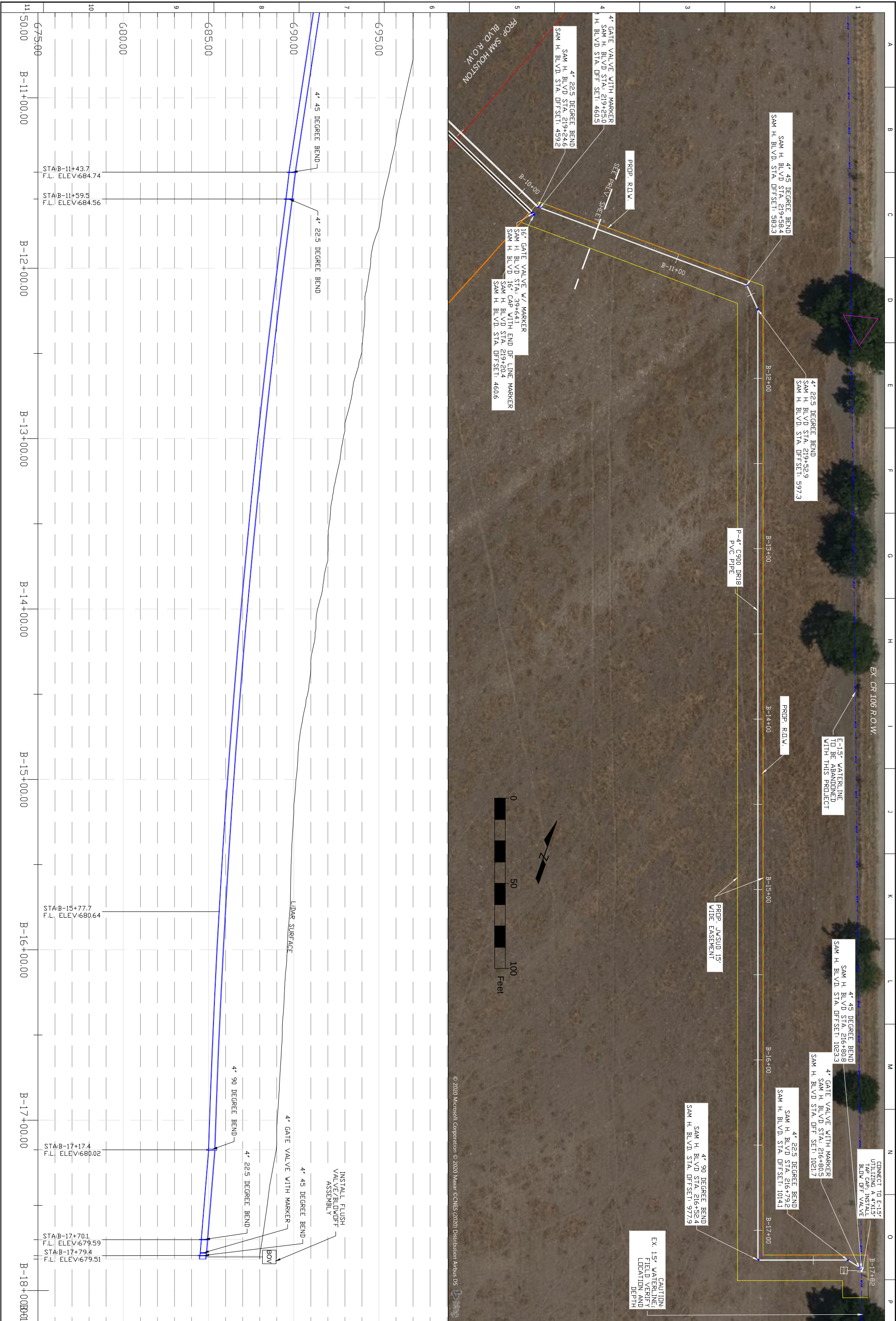
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SEAL: _____



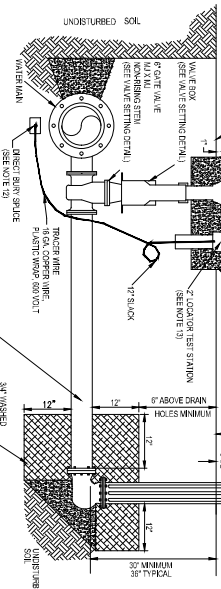
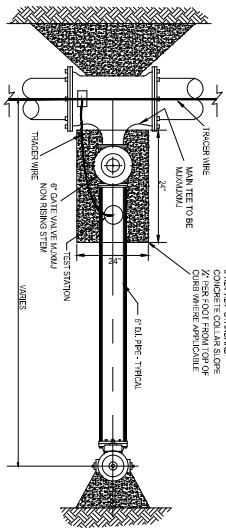
THIS DOCUMENT IS ISSUED FOR BIDDING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION.

APPROVED: _____
DATE: 7/21/20

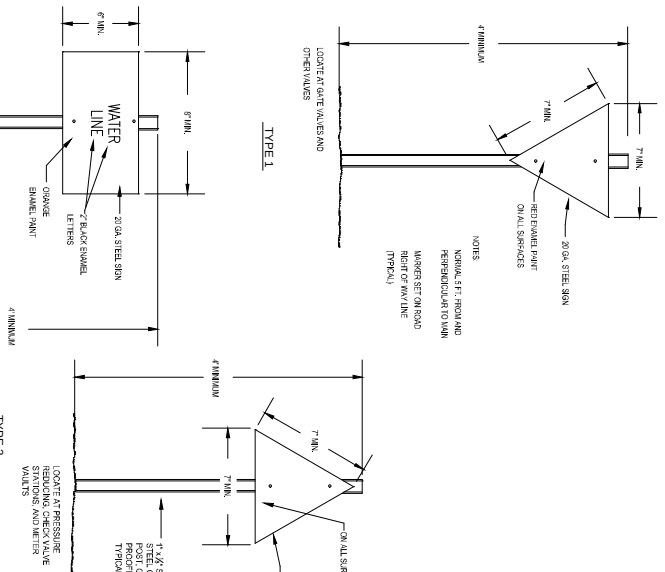
AYOTE CONSULTING, LLC
T.B.P.E. F-16387
P.O. Box 24189
Waco, TX 76702 Ph. 254-744-3439



SHEET 4	 T.B.P.E. F-16387 P.O. Box 24189 Waco, TX 76702 Ph. 254-744-3439	APPROVED:	DATE: 7/21/20		DESIGN: MMW	DRAWN: MMW	CHECKED: MMW	SEAL:
		THIS DOCUMENT IS ISSUED FOR BIDDING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION.						
Jonah Water S.U.D. Williamson County, Texas 2020 - SH 29; Corridor "C", Utility Adjustments STA. B-10+50 TO B-17+82								
REVISION DESCRIPTION		DATE	BY	CHKD				

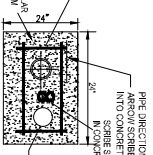


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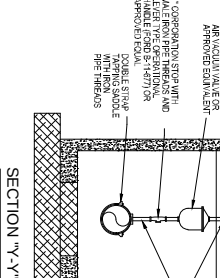
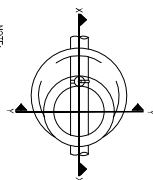
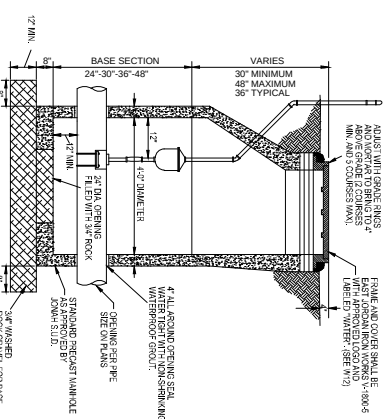
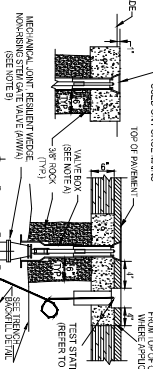


JONAH WATER SUD
WATER CONSTRUCTION STANDARD DETAILS

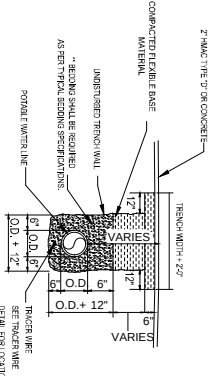
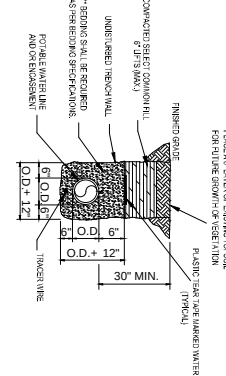
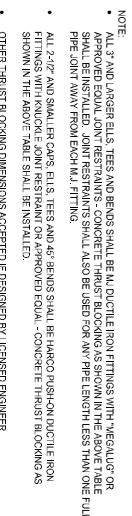
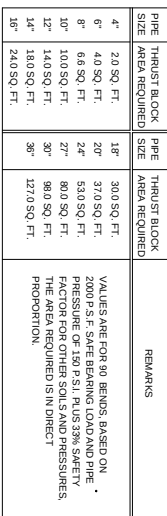
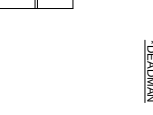
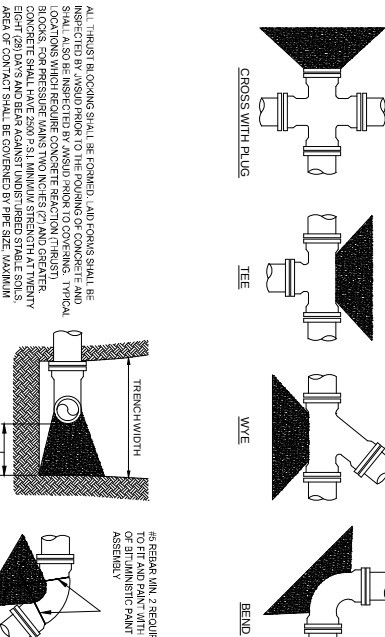
- [illegible]



- [illegible]



JONAH WATERS UD
WATER CONSTRUCTION STANDARD DETAILS



1. REPAIR BASE MATERIAL, OVER OTHER SHALL TWICE THE THICKNESS OF THE ORIGINAL BASE.
2. PLACE A BASE DRAINAGE, TYPE (TYPICAL) SHALL BE PLACED IN MULTIPLE PLACES TO BE EXPOSED TO THE SURFACE.
3. LIFTS NOT TO EXCEED 6" EACH LAYER SHALL BE HORIZONTAL, ROLLED OVER TO SPECIFIED MAXIMUM DENSITY, VIBRY BASE MATERIAL WITH APPLICABLE CITY OR COUNTY SPECIFICATIONS.
4. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAVED.
5. SUBGRADE SHALL BE EXPOSED TO THE SURFACE.
6. SUBSISTERS SHALL BE CONSISTENT WITH THE EXISTING SURFACE.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CITY OR COUNTY SPECIFICATIONS.
8. CONTRACTOR OF ENGINEER MAY USE FLOWABLE BASECILL AS AN ALTERNATE DRAINAGE MATERIAL IF PERMITTED BY CITY OR COUNTY (SEE APPLICABLE CITY OR COUNTY FLOWABLE BASECILL SPECIFICATION).

- ### **TYPICAL BEDDING SPECIFICATIONS**

- | | |
|------------|--------------|
| 1 1/2" D | WASHED GRAVE |
| % RETAINED | % RETAINED |

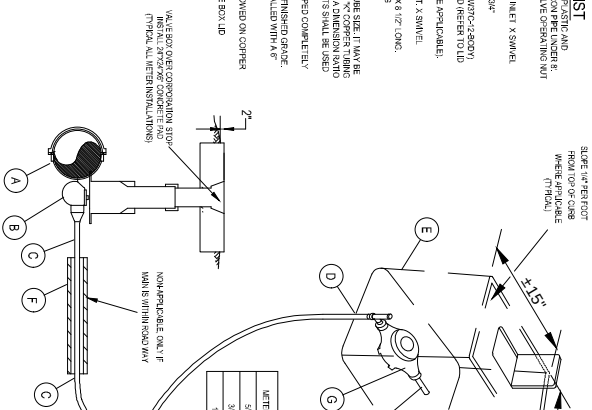
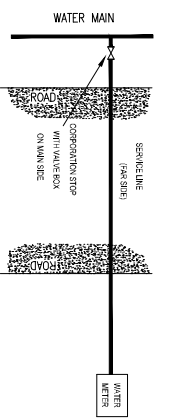
BURIED PIPING SHALL HAVE THE FOLLOWING LISTED MINIMUM COVER:



JONAH WATER SUD
WATER CONSTRUCTION STANDARD DETAIL

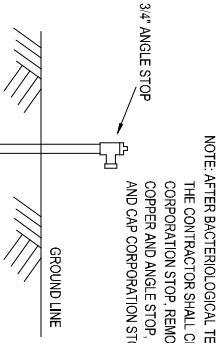


JONAH WATER SUD
WATER CONSTRUCTION STANDARD DE
STANDARD INSTALLATION DETAIL FOR ONE 8'-2" OR 1'

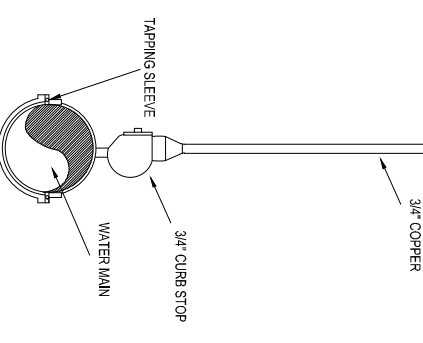


- [illegible]

- [illegible]



NOTE: AFTER BACTERIOLOGICAL TEST
THE CONTRACTOR SHALL CLOSE
CORPORATION STOP, REMOVE
COPPER AND ANGLE STOP,
AND CAP CORPORATION STOP.

[illegible]

Jonah Water S.U.D.

Williamson County, Texas
2020 - SH 29; Corridor "C", Utility Adjustments

DETAILS

DETAILS

DESIGN: MMWW
DRAWN: MMWW
CKD: MMWW
SEAL:

THIS DOCUMENT IS ISSUE
FOR BIDDING PURPOSES
ONLY, NOT TO BE USED
FOR CONSTRUCTION

APPROVED:

DATE: 7/21/20

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

P.O. Box 24189
Waco, TX 76702 Ph. 254-744-3439

P.O. Box 24189
Waco, TX 76702

[illegible]

[illegible]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER DISTRIBUTION SYSTEM

GENERAL CONSTRUCTION NOTES

1. This water distribution system must be constructed in accordance with the current Texas commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D.
2. Prior to commencement of construction, the owner of the system or his representative must notify the appropriate TCEQ regional office in writing of the date on which construction will begin.

- Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61 and must be certified by an organization accredited by ANSI.

4. Plastic pipe for use in public water systems must bear the National Sanitation Foundation Seal of Approval (NSF-pw) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less.

5. No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply.

6. 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 24 inches below ground surface.

7. The hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current MWMA formulas for PVC pipe, cast iron and ductile iron pipe.
8. The contractor shall install appropriate air release devices in the distribution system at all points where topography or other factors may create air locks in the lines. All vent openings to the atmosphere shall be covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent.

9. The contractor shall maintain a minimum separation distance in all directions of mine face between the proposed waterline and wastewater collection facilities including manholes and septic tank drainfields. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet 290.44(e) of the current rules.

10. The contractor shall disinfest the new water mains in accordance with AWMA Standard C651 and then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed water line will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer.

11. The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation.

[illegible]

Jonah Water S.U.D.
Williamson County, Texas
2020 - SH 29; Corridor "C", Utility Adjustments

DETAILS

DESIGN: MWW
DRAWN: MWW
CKD: MWW
SEAL:



APPROVED:

DATE: 7/21/20

DAYOTE
CONSULTING, LLC
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P.O. Box 24189
Waco, TX 76702 Ph. 254-744-3439

DATE:
FILE:



Conventional Roads



Conventional Roads



Conventional Roads

TCP (1-1)-18151

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

EXHIBIT "C"

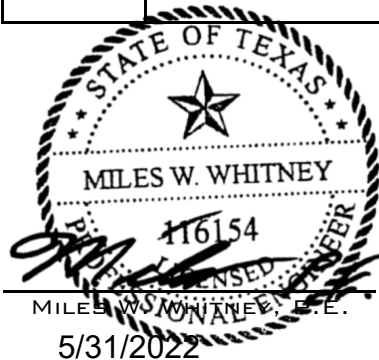


2020 - SH 29: CORRIDOR "C", UTILITY ADJUSTMENTS

OPINION OF PROBABLE CONSTRUCTION COST W/ BETTERMENT:

ITEM CODE.	ITEM DESCRIPTION	QTY.	UNIT		PRICE/UNIT		ITEM TOTALS
1	16" C-905, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	7	L.F.	x	\$ 200.00	=	\$ 1,400.00
2	12" C-900, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	212	L.F.	x	\$ 195.00	=	\$ 41,340.00
3	6" C-900, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	42	L.F.	x	\$ 90.00	=	\$ 3,780.00
4	4" C-900, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	1,237	L.F.	x	\$ 68.00	=	\$ 84,116.00
5	24" STEEL ENC. PIPE, OPEN CUT WITH 16" C-905, DR-18 RJ CARRIER PIPE; INSTALLED	545	L.F.	x	\$ 500.00	=	\$ 272,500.00
6	20" STEEL ENC. PIPE, OPEN CUT WITH 12" C-905, DR-18 RJ CARRIER PIPE; INSTALLED	160	L.F.	x	\$ 330.00	=	\$ 52,800.00
7	8" STEEL ENC. PIPE, OPEN CUT WITH 4" C-905, DR-18 RJ CARRIER PIPE; INSTALLED	545	L.F.	x	\$ 195.00	=	\$ 106,275.00
8	16" GATE VALVE, BOX, AND MARKER; INSTALLED	2	EA.	x	\$ 9,500.00	=	\$ 19,000.00
9	12" GATE VALVE, BOX, AND MARKER; INSTALLED	2	EA.	x	\$ 3,250.00	=	\$ 6,500.00
10	6" GATE VALVE, BOX, AND MARKER; INSTALLED	3	EA.	x	\$ 1,500.00	=	\$ 4,500.00
11	4" GATE VALVE, BOX, AND MARKER; INSTALLED	4	EA.	x	\$ 1,400.00	=	\$ 5,600.00
12	AIR/VACUUM RELIEF VALVE AND MARKER; INSTALLED	1	EA.	x	\$ 10,000.00	=	\$ 10,000.00
13	CONNECT NEW 6" TO EXISTING 6"; INSTALLED	1	EA.	x	\$ 2,500.00	=	\$ 2,500.00
14	CONNECT NEW 6" TO EXISTING 5"; INSTALLED	2	EA.	x	\$ 2,500.00	=	\$ 5,000.00

15	CONNECT EXISTING 4" TO NEW 1.5"; INSTALLED	2	EA.	x	\$ 1,500.00	=	\$ 3,000.00
16	16" CAPPED STUB OUT; INSTALLED	2	EA.	x	\$ 2,000.00	=	\$ 4,000.00
17	12" CAPPED STUB OUT; INSTALLED	2	EA.		\$ 1,750.00	=	\$ 3,500.00
18	CAP EXISTING 5" WATERLINE; INSTALLED	2	EA.		\$ 500.00	=	\$ 1,000.00
19	CAP EXISTING 1.5" WATERLINE; INSTALLED	2	EA.		\$ 500.00	=	\$ 1,000.00
20	INSTALL NEW FLUSH VALVE ASSEMBLY; INSTALLED	1	EA.		\$ 2,500.00	=	\$ 2,500.00
21	INSTALL NEW FIRE HYDRANTS ASSEMBLY; INSTALLED	1	EA.		\$ 5,500.00	=	\$ 5,500.00
22	TRENCH SAFETY	2,748	L.F.		\$ 1.00	=	\$ 2,748.00
23	STORM WATER POLLUTION PREVENTION PLAN DESIGN AND IMPLEMENTATION	1	L.S.		\$ 5,000.00	=	\$ 5,000.00
24	TRAFFIC CONTROL PLAN DEVELOPMENT AND IMPLEMENTATION	1	L.S.		\$ 5,000.00	=	\$ 5,000.00
25	MOBILIZATION (NOT TO EXCEED 10% OF TOTAL PROJECT BID)	1	L.S.		\$ 60,000.00	=	\$ 60,000.00



TOTAL COST \$ 708,559

OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS:

ENGINEER'S OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT ENGINEER'S BEST JUDGMENT AS AN EXPERIENCED AND QUALIFIED PROFESSIONAL, GENERALLY FAMILIAR WITH THE CONSTRUCTION INDUSTRY. HOWEVER, SINCE ENGINEER HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, EQUIPMENT, OR SERVICES FURNISHED BY OTHERS, OR OVER CONTRACTORS' METHODS OF DETERMINING PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS, ENGINEER CANNOT AND DOES NOT GUARANTEE THAT PROPOSALS, BIDS, OR ACTUAL CONSTRUCTION COST AND OTHER COSTS WILL NOT VARY FROM OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS PREPARED BY ENGINEER.



2020 - SH 29: CORRIDOR "G", UTILITY ADJUSTMENTS

OPINION OF PROBABLE CONSTRUCTION COST FOR NO BETTERMENT:

ITEM CODE.	ITEM DESCRIPTION	QTY.	UNIT		PRICE/UNIT		ITEM TOTALS
NB1	6" C-900, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	254	L.F.	x	\$ 90.00	=	\$ 22,860.00
NB2	2" ASTM D2241 PR 200 PVC PIPE; W/ TRACER WIRE; INSTALLED	1,237	L.F.	x	\$ 40.00	=	\$ 49,480.00
NB3	12" STEEL ENC. PIPE, OPEN CUT WITH 6" C-905, DR-18 RJ CARRIER PIPE; INSTALLED	160	L.F.	x	\$ 250.00	=	\$ 40,000.00
NB4	4" STEEL ENC. PIPE, OPEN CUT WITH 2" ASTM D2241 PR200 RJ CARRIER PIPE; INSTALLED	545	L.F.	x	\$ 150.00	=	\$ 81,750.00
NB5	6" GATE VALVE, BOX, AND MARKER; INSTALLED	3	L.F.	x	\$ 1,500.00	=	\$ 4,500.00
NB6	2" GATE VALVE, BOX, AND MARKER; INSTALLED	4	L.F.	x	\$ 500.00	=	\$ 2,000.00
NB7	AIR/VACUUM RELIEF VALVE AND MARKER; INSTALLED	1	L.F.	x	\$ 9,500.00	=	\$ 9,500.00
NB8	CONNECT NEW 6" TO EXISTING 6"; INSTALLED	1	EA.	x	\$ 2,500.00	=	\$ 2,500.00
NB9	CONNECT NEW 6" TO EXISTING 5"; INSTALLED	2	EA.	x	\$ 2,500.00	=	\$ 5,000.00
NB10	CONNECT EXISTING 2" TO NEW 1.5"; INSTALLED	2	EA.	x	\$ 1,250.00	=	\$ 2,500.00
NB11	CAP EXISTING 5" WATERLINE; INSTALLED	2	EA.	x	\$ 500.00	=	\$ 1,000.00
NB12	CAP EXISTING 1.5" WATERLINE; INSTALLED	2	EA.	x	\$ 500.00	=	\$ 1,000.00
NB13	INSTALL NEW FLUSH VALVE ASSEMBLY; INSTALLED	1	EA.	x	\$ 2,500.00	=	\$ 2,500.00
NB14	INSTALL NEW FIRE HYDRANTS ASSEMBLY; INSTALLED	1	EA.	x	\$ 5,500.00	=	\$ 5,500.00

NB15	TRENCH SAFETY	2,196	EA.	x	\$ 1.00	=	\$ 2,196.00
NB16	STORM WATER POLLUTION PREVENTION PLAN DESIGN AND IMPLEMENTATION	1	EA.	x	\$ 5,000.00	=	\$ 5,000.00
NB17	TRAFFIC CONTROL PLAN DEVELOPMENT AND IMPLEMENTATION	1	EA.		\$ 5,000.00	=	\$ 5,000.00
NB18	MOBILIZATION (NOT TO EXCEED 10% OF TOTAL PROJECT BID)	1	EA.		\$ 20,000.00	=	\$ 20,000.00



TOTAL COST **\$ 262,286**

OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS:

ENGINEER'S OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT ENGINEER'S BEST JUDGMENT AS AN EXPERIENCED AND QUALIFIED PROFESSIONAL, GENERALLY FAMILIAR WITH THE CONSTRUCTION INDUSTRY. HOWEVER, SINCE ENGINEER HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, EQUIPMENT, OR SERVICES FURNISHED BY OTHERS, OR OVER CONTRACTORS' METHODS OF DETERMINING PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS, ENGINEER CANNOT AND DOES NOT GUARANTEE THAT PROPOSALS, BIDS, OR ACTUAL CONSTRUCTION COST AND OTHER COSTS WILL NOT VARY FROM OPINIONS OF PROBABLE CONSTRUCTION COST AND OTHER COSTS PREPARED BY ENGINEER.