

W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DRIVE SEWER MAIN PROJECT Solicitation Number: CO-00317 Job No.: 19-4519

ADDENDUM 1 March 10, 2020

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the price proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the price proposal.

- Q1: In the Supplementary Instructions to Respondents Paragraph C. Required Experience the reference for prior experience is for "wastewater pipeline installations via tunnel construction methods are a primary business focus and service". Would larger diameter tunneling projects that do not include the installation of pipelines qualify as required experience?
- **Response:** *Experience performing large tunnels will be reviewed and considered but during evaluation may not be scored as high as past performance with similar scope to the subject project.*

Reminder, Respondents submitting a proposal for this RFCSP should clearly demonstrate, completely and sufficiently, that wastewater pipeline installations via tunnel construction methods are a primary business focus and service.

Reminder, SAWS in its sole discretion will determine whether a submitted project by Respondent is suitably comparable to the work in this RFCSP.

- **Q2:** Can the required experience components be provided by different members of the same bidding Team?
- **Response:** Yes, however, regarding the prime contractor, a minimum of two (2) of the three (3) projects provided must have been performed by proposed Key Personnel (Project Manager, Project Engineer, Lead Surveyor, Quality Assurance and Quality Control Lead, Project Scheduler, Project Superintendent, Tunneling Superintendent(s), Tunnel Boring Machine (TBM) Operators, and Safety Manager). Also, if the prime contractor is relying on elements of it's sub-contractors to meet the experience requirements for this project, SAWS retains sole discretion regarding whether or not the contractor team sufficiently meets the experience requirements for the project.
- Q3: If we are unable to attend the geotechnical core sample viewing on March 19th, will we be able to schedule a different time to view them?
- **Response:** No. At this time there are no other scheduled visits.
- **Q4:** Can you please confirm that we are registered for the pre-proposal meeting?
- **Response:** There is no need to pre-register for the meeting. Please be sure to arrive on time, or you will not be allowed to sign in.

Q5:	Can I invite two of my colleagues to join me for this pre-proposal meeting?
Response:	Yes. There is no limit on the number of attendees.
Q6:	Also, were there any other details about where the meeting will be held?
Response:	The Mandatory Pre-Proposal Meeting will be held at San Antonio Water System (SAWS) Headquarters, 2800 US Hwy N, Customer Service Building (Tower 2), Conference Room CR-145, San Antonio, Texas 78212.
Q7:	Is there anything we need to complete in order to attend? Please advise.
Response:	No. There is nothing to be completed prior to the meeting. Please be sure to arrive on time or you will not be allowed to sign in.
Q8:	I am having trouble finding the standard specifications for this project. In particular, I am looking for 03300 – Cast in Place Concrete. This is called on in the published W-6 specifications, but it is not contained within. Can you point me in the right direction or advise if this will be added in an addendum.
Response:	Contractors are directed to the City of San Antonio (CoSA) Standard Specifications for Construction- June 2008 (<u>https://www.sanantonio.gov/PublicWorks/Current-Vendor-Resources/Standard-Specifications-and-Details</u>). CoSA Item 300 – Concrete is to be used in lieu of the 03300 – Cast in place Concrete references. References to 03300 – Cast in place Concrete will be edited from the specifications and replaced with CoSA Item 300 – Concrete.
Q9:	Due to the complex nature of the bid proposal structure and the significant scope of the project, we are requesting that the proposal submittal date be extended by 4 weeks to May 8, 2020. The additional time will allow Contractors to submit a more detailed and responsive proposal.
Response:	This project is an urgent capacity constraint, in the SAWS system, and time is of the essence. However, SAWS is taking this request under advisement, in consideration of several similar requests made. Final determination regarding a possible time extension, and the date of said possible extension, to be forthcoming by Friday March 13, 2020.
Q10:	Due to the complexity of this project and the effort it will take to carefully evaluate the plans and specifications in order to prepare the RFCSP, we ask that you consider a one-time extension on the bid date to May 8, 2020. The level of effort to put forth this submission detailing the plans and methods, including pricing and solicitation of SMWB participation will take some time. In order to set firm dates for this procurement, we kindly ask that you consider a one-time extension now instead of several shorter extensions near the proposal due date. This allows Contractors the ability to plan and schedule review dates and Subcontractor close out with a firm bid date.
Response:	See the response provided to Question 9 (above).
Q11:	The current bid date for the project is April 10th. That is Good Friday. That week is very difficult for travel. Many suppliers, subs etc. may be off that week. Please consider a different date for the bid.
Response:	See the response provided to Question 9 (above).
Q12:	Taking into account the amount of bid items to estimate, the large amount of documents to review and the extend of the WBE good faith effort, would SAWS kindly grant a month extension to the bid day of the SAWS Solicitation No. CO-00317?
Response:	See the response provided to Question 9 (above).

CHANGES TO SPECIFICATIONS

- 1. Remove and Replace the Price Proposal with the Price Proposal included in this Addendum. The revised documents should be used by Respondents submitting a proposal for this project.
 - Quantity and Unit for line item 27 to be replaced with "1" and "LS" (Lump Sum)
 - o Quantity for line item 57 853A Extra Depth (>6' Tee Base Fiberglass Manhole, Miter (12'
 - Diameter): Replace "46" with the following: "47"
 - Line items 60 through 65
 - 60 Replace "857A" with the following: "857"
 - 61 Replace "857A" with the following: "857"
 - 63 Replace "857A" with the following: "857"
 - 64 Replace "857A" with the following: "857"
 - 65 Replace "857A" with the following: "857"
 - Item no. 116 "SP100B TBM Mobilization (Max 5% of Items 1 to 106)" to be replaced with the following: "100B TBM Mobilization (Max 5% of Items 1 to 106)".
 - Item no. 117 "100.1 Mobilization (Max 2% of Items 1 to 106)" to be replaced with the following: "100 Mobilization (Max 2% of items 1 to 106)"
 - Item no. 118 "101.1 Preparing Right-of-Way Mobilization (Max 1% of Items 1 to 106)" to be replaced with the following: "101 Preparing Right-of-Way (Max 1% of Items 1 to 106)"
- 2. Revise Supplemental Condition, Section 8.6:

Remove 8.6.2 in its entirety, the contract duration is provided in the Price Proposal and Proposal Certification sections of this RFCSP.

The statement in the paragraphs below to be replaced currently read as follows:

8.6.4 Upon achieving Substantial Completion, Contractor shall pay liquidated damages in the amount of \$5,000 per calendar day past the Final Completion milestone date established in paragraph 8.6.2.

The above statement is to be replaced with the following:

- 8.6.4 Upon achieving Substantial Completion, Contractor shall pay liquidated damages in the amount of \$5,000 per calendar day past the contract end date.
- 3. Revise Special Conditions to include the additional language, as follows:

Add the following Paragraphs after SC.20.

SC 21. PROJECT SITE VIDEO

Project site video is available for viewing by prospective Respondents and has been made available for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the Respondent, and once obtained by SAWS, will be provided a link to access the videos. The video disclaimer form (attached) should be submitted to Florinda Gonzales via email at <u>Florinda.Gonzales@saws.org</u>.

SC 22. GEOTECHNICAL DATA REPORT FOR OPEN-CUT AND HWY 90 BORES

In regard to the open-cut and Hwy 90 bore installation portions of the project, a Geotechnical Data Report has been developed for SAWS on this project and has been made available for Contractors for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the potential Respondents as a condition of and prior to the release of the report. The Geotechnical Data Report for Open-Cut and Trenchless Installations is only intended to encompass the open-cut portions of the project and the Hwy. 90 bores. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website: https://www.saws.org/business_center/ContractSol/

Find this project, select 'More", then Geotechnical Data Report Open-cut and Trenchless Installations.

SC. 23 SPECIAL CONSTRUCTION CONDITIONS FOR THE LEON CREEK GREENWAY.

Special project procedures are required from the Contractor as specified herein. The Contractor shall implement and maintain the special project procedures outlined below, pursuant to Joint Use Agreement: W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main, SAWS Job

- A. Contractor shall complete the work in a manner that does not unreasonably impact the Leon Creek Greenway including impact to recreational activities, park reservations, use of park and trail amenities, vegetation and pedestrian and vehicular access.
- B. Contractor will specifically comply with all applicable environmental laws regarding environmental protection of the Leon Creek and surrounding land.
- *C.* Contractor will restore the park improvements to the extent disturbed by contractors, to its prior condition.
- D. At the conclusion of the Project, equipment and debris will be removed by Contractor and Contractor will restore the site, to the extent disturbed by Contractor, to the same condition as prior to the commencement of work on the Project including, but not limited to, grading, tree plantings, and establishing grass with a native grass mix, to be approved in advance by CITY.
- E. Following notice to Contractor and reasonable opportunity to cure, CITY shall have the right and authority to halt any activity within the Properties and require the removal of Contractor, its employees, agents, consultants, contractors, and/or subcontractors off the Properties should any of the requirements of this Joint Use Agreement not be met.
- F. Absent CITY consent and except as otherwise provided herein below, Contractor shall not use the Properties for purposes of staging and material storage. Contractor shall seek CITY approval in advance of any onsite storage, not to be unreasonably withheld. Contractor will be allowed to only have materials that will be installed within 48 hours of arriving on site. Any materials in excess of this amount must be stored off-site (outside of limits of construction/Properties) at no additional cost to SAWS.
- G. All tree and vegetative trimming and removal planning shall be done in coordination with COSA Parks and Recreation Department. A certified and licensed arborist must be onsite at times of tree and vegetative trimming and removal operations. All trees not shown to be removed within the construction limits shall be protected. Contractor shall adhere to COSA Standard Specifications for Tree Protection requirements. Contractor shall coordinate with COSA Arborist office to identify preferred access routes that preserve native vegetation. Contractor shall document any pre-existing tree damage or tree health problems with photographs and in Contractor's pre-construction video.
- H. Contractor is responsible for protection of work, material, and equipment prior to rain events. The location of the Project is located entirely within the 100-year floodplain and floodway areas of Leon Creek. The project site is susceptible to quickly rising water in response to rainfall events. No material shall be stored in the 100-year floodplain longer than the end of the shift in which it was generated. Contractor is solely responsible for protecting trenches, pits, materials and equipment from damage/inundation of flood waters. Roadways to the project site can be expected to be blocked-off as low water crossings during storm events and for extended periods thereafter. Contractor shall coordinate with SAWS to determine whether Contractor may return to work onsite after a heavy rain event / park closure.
- I. Contractor's employees shall only be allowed to park their personally owned vehicles in areas allowed and approved by CITY.
- 4. Revise Special Provisions to the Technical Specifications SP 100A Mobilization, as follows:

100.3 PAYMENTS

The statement to be replaced currently reads as follows:

The following shall be added to paragraph 100.3 – PAYMENTS: The contract amount for Mobilization shall not exceed seven (7) percent of the total contract amount. The following shall be added to paragraph 100.3 – PAYMENTS: The contract amount for Mobilization, excluding TBM Mobilization, shall not exceed two (2) percent of the contract amount, outlined by Subtotal A of the Price Proposal

5. Revise Special Provisions to the Technical Specifications - SP 857 Fiberglass Reinforced Pipe for Large Diameter Sanitary Sewer, as follows:

857.6 TESTING

The statement to be replaced currently reads as follows:

The Statement to be replaced currently reads as follows:

2.d. Infiltration/Exfiltration Test: The total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch of diameter per mile of main per 24 hours, at a minimum test head of 2 feet above the crown of the main at an upstream manhole. The Contractor shall use an infiltration test in lieu of an exfiltration test when mains are installed below the ground water level. In such cases, the total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch diameter per mile of main 24 hours at a minimum test head of 2 feet above the crown of the main at an upstream manhole, or at least 2 feet above the existing groundwater level, whichever is greater. For construction work occurring within a 25-year floodplain, the infiltration or exfiltration must not exceed 10 gallons per inch diameter per mile of main per 24 hours at the same minimum test head as stated in the previous sentence. If the quantity of infiltration or exfiltration exceeds the maximum quantity specified, the Contractor shall propose to the Engineer, and receive approval therefrom, all necessary remedial action, solely at the Contractor's own cost, in order to reduce the infiltration or exfiltration to an amount within the limits specified herein.

The above statement is to be replaced with the following:

2.d. Infiltration/Exfiltration Test: The total exfiltration, as determined by a hydrostatic head test, must not exceed 10 gallons per inch of diameter per mile of main per 24 hours, at a minimum test head of 2 feet above the crown of the main at an upstream manhole. The Contractor shall use an infiltration test in lieu of an exfiltration test when mains are installed below the ground water level. In such cases, the total exfiltration, as determined by a hydrostatic head test, must not exceed 10 gallons per inch diameter per mile of main 24 hours at a minimum test head of 2 feet above the crown of the main at an upstream manhole, or at least 2 feet above the existing groundwater level, whichever is greater. If the quantity of infiltration or exfiltration exceeds the maximum quantity specified, the Contractor shall propose to the Engineer, and receive approval therefrom, all necessary remedial action, solely at the Contractor's own cost, in order to reduce the infiltration or exfiltration to an amount within the limits specified herein.

The above statement is to be replaced with the following paragraphs:

The Statement to be replaced currently reads as follows:

2.d. Infiltration/Exfiltration Test: The total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch of diameter per mile of main per 24 hours, at a minimum test head of 2 feet above the crown of the main at an upstream manhole. The Contractor shall use an infiltration test in lieu of an exfiltration test when mains are installed below the ground water level. In such cases, the total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch diameter per mile of main 24 hours at a minimum test head of 2 feet above the crown of the main at an upstream manhole, or at least 2 feet above the existing groundwater level, whichever is greater. For construction work occurring within a 25-year floodplain, the infiltration or exfiltration must not exceed 10 gallons per inch diameter per mile of main per 24 hours at the same minimum test head as stated in the previous sentence. If the quantity of infiltration or exfiltration exceeds the maximum quantity specified, the Contractor shall propose to the Engineer, and receive approval therefrom, all necessary remedial action, solely at the Contractor's own cost, in order to reduce the infiltration or exfiltration to an amount within the limits specified herein. The above statement is to be replaced with the following:

2.d. Infiltration/Exfiltration Test: In the event that a low pressure air test cannot be performed an infiltration/exfiltration test will be performed in accordance with TCEQ 217.57 (a) (2).

6. Revise Special Specification SS 00100B - TBM Mobilization, as follows:

100B.3 - PAYMENTS

The statement to be replaced currently reads as follows:

Total Mobilization of TBM(s) shall not exceed five (5) percent of the total bid price for the project.

The above statement is to be replaced with the following:

Total Mobilization of TBM(s) shall not exceed five (5) percent of the contract amount, outlined by Subtotal A of the Price Proposal.

- 7. Insert the Special Specification SS 01130 Escrow Bid Documents, attached.
- 8. Revise Special Specification SS 01500 Construction Facilities and Temporary Controls, as follows:

The Statement to be replaced currently reads as follows:

1.04.B.1 The OWNER has submitted to CPS Energy a request for temporary power at all shaft locations, unless identified otherwise in the Contract Documents. The temporary construction power that has been requested is based on general electrical requirements for similar tunneling operations and is not based on the exact tunneling equipment anticipated to be used by the CONTRACTOR. CONTRACTOR shall provide CPS with the power requirements associated with the equipment proposed for the project and the requested locations for power to be provided for the CPS Energy request to be submitted for processing. CPS Energy will take approximately nine (9) months to construct all base power supply.

The above statement is to be replaced with the following:

1.04.B.1 The OWNER has submitted to CPS Energy a request for temporary power at all shaft locations, unless identified otherwise in the Contract Documents. The temporary construction power that has been requested is based on general electrical requirements for similar tunneling operations and is not based on the exact tunneling equipment anticipated to be used by the CONTRACTOR. CONTRACTOR shall provide CPS with the power requirements associated with the equipment proposed for the project and the requested locations for power to be provided for the CPS Energy request to be submitted for processing. CPS Energy will take approximately nine (9) months, from the time the Contractor submits the power requirements to CPS, to construct all base power supply. Submittal of the power requirements shall occur within the timeframe specified in the Special Conditions

CHANGES TO PLANS

- 1. Remove the following plan sheets in their entirety and replace them with the attached, revised plan sheets. (Revisions made from the original sheets are depicted by revision clouds around the changed portions.)
 - Sheet G6 OVERALL QUANTITES Revise and replace sheet in its entirety.
 - Quantity for line item 57 853A Extra Depth (>6' Tee Base Fiberglass Manhole, Miter (12' Diameter) "46" with the following: "47"
 - o Item no. 60 through 65
 - 60 "857A" with the following: "857"
 - 61 "857A" with the following: "857"
 - 63 "857A" with the following: "857"
 - 64 "857A" with the following: "857"
 - 65 "857A" with the following: "857"
 - Item no. 117 "100.1 Mobilization (Max 2% of Items 1 to 106)" with the following: "100 Mobilization (Max 2% of items 1 to 106)"

- Item no. 118 "101 Mobilization (Max 1% of Items 1 to 106)" with the following: "100 Mobilization (Max 1% of Items 1 to 106)"
- Sheet C1 104-INCH SANITARY SEWER PLAN & PROFILE- Revise and replace sheet in its entirety.
 - Label of manhole top rim elevation for Manhole A1 Miter "MH TOP = 644.9" with the following: "MH TOP = 645.8"
 - Quantity for line item 853A Extra Depth (>6' Tee Base Fiberglass Manhole, Miter (12' Diameter) "45.28" with the following: "46.18".
 - Quantity for line item 857A 104-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (22'-25' Depth) "857A" with the following: "857".
 - Quantity for line item 857A 104-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (25'-30' Depth) "857A" with the following: "857".
 - Quantity for line item 857A 104-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (30'-35' Depth) "857A" with the following: "857".
- Sheet C7 104-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety.
 Label of shaft top rim elevation for Prop. Pearsall Shaft (SH A2) "SHAFT TOP = 717.6" with the following: "SHAFT TOP = 717.8".
- Sheet C16 104-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety.
 Label of shaft top rim elevation for Prop. Merry Oaks Shaft (SH A3) "SHAFT TOP = 718.2" with the following: "SHAFT TOP = 718.7".
- Sheet C49 104-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety.
 Add callout for future 30-inch FRP stubout for odor control "Install 30" FRP Pipe stubout for future odor control, FL=739.57".
 - Label of shaft top rim elevation for Prop. Hotel Shaft (SH A5) "SHAFT TOP = 745.1" with the following: "SHAFT TOP = 745.3".
- Sheet C67- 104-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety.
 - Add callout for future 30-inch FRP stubout for odor control "Install 30" FRP Pipe stubout for future odor control, FL=677.11".
 - Label of shaft top rim elevation for Solids Handling Shaft (SH A6) "MH TOP = 650.78" with the following: "SHAFT TOP = 682.8".
 - Label of shaft top rim elevation for Prop. W-1 Connection Shaft (SH A7) "SHAFT TOP = 682.6" with the following: "SHAFT TOP = 682.8".
- Sheet C72- 60-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety.
 Label of shaft top rim elevation for Prop. Ballpark Shaft (SH A8)- "SHAFT TOP = 701.13" with the following: "SHAFT TOP = 701.24".
- Sheet C74- 60-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety

 Quantity for line item 857A 60-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (25'-30' Depth) "857A" with the following: "857".
- Sheet C75 78-INCH SANITARY SEWER PLAN & PROFILE Revise and replace sheet in its entirety
 Profile which includes slopes and flowline elevations.
 - Property Owner label "Mahmoud Diab Rafati and Nizar Musa Rafati NCB 13951 Called 29.591 Acres Doc. No. 20182046882, O.P.R. Recorded 12/18/2018" with the following: "Bobcat Trucking, Inc. NCB 13951 Called 29.591 Acres No. 20190245623 O.P.R. Recorded 12/04/2019."
 - Quantity for line item 857A 78-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (30'-35' Depth) "857A" with the following: "857".
 - Quantity for line item 857A 78-inch FRP (ASTM D-3262) (SN 72) Sanitary Sewer Line (35'-40' Depth) "857A" with the following: "857".
 - Label of shaft top rim elevation for Prop. W-1 Connection Shaft (SH A7) "SHAFT TOP = 682.6" with the following: "SHAFT TOP = 682.8".

- Sheet C80 15-INCH SANITARY SEWER PLAN & PROFILE LINE E Revise and replace sheet in its entirety
 - Label of shaft top rim elevation for Prop. Ballpark Shaft (SH A8)- "SHAFT TOP = 701.13" with the following: "SHAFT TOP = 701.24".
- Sheet C83 SANITARY SEWER PLAN & PROFILE LINE H AND LINE I Revise and replace sheet in its entirety
 - Label of manhole top rim elevation for Manhole A1 Miter "MH TOP = 644.9" with the following: "MH TOP = 645.8"
- Sheet C86A- SEWER GENERAL DETAILS (SHEET 2 OF 3)- Revise and replace Detail 1in its entirety.
- Sheet S1 STRUCTURAL NOTES Delete Note D. under 'Cast-in-place Concrete' section in its entirety.
- Sheets S8 STRUTURAL TYPICAL DETAISL VI Revise and replace sheet in its entirety.
 Detail 2- Revise callouts for the pipe coupling detail as shown.
- Sheet S12 SHAFT #2 (PEARSALL SHAFT) UPPER LEVEL SLAB PLAN AT EL 717.56' Revise and replace sheet in its entirety.
 - o Revise Elevation callouts "EL 717.56" with the following: "EL 717.75" at three locations.
- Sheets S13 SHAFT #2 (PEARSALL SHAFT) SECTION I:
 - Replace Plan Notes 1,2 and 3 in its entirety with the following revised Notes 1,2 and 3 "Notes:

1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.

2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE.

3. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO."

- Revise shaft depth dimension from "92'-7 ¹/₄"" with the following: "92'-9 ³/₄"".
- Sheet S14 SHAFT #2 (PEARSALL SHAFT) SECTION II: Revise and replace sheet in its entirety.
 Section 1- Add reinforcement callouts as shown on the revised drawings.
- Sheet S15 SHAFT #2 (PEARSALL SHAFT) ENLARGED SECTION II:
 - Replace Notes 1 in its entirety with the following:
 "Note:
 1. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO."
- Sheet S19 SHAFT #3 (MERRY OAKS SHAFT) UPPER LEVEL SLAB PLAN AT EL 718.20' Revise and replace sheet in its entirety.
 - o Revise Elevation callouts "EL 718.20" with the following: "EL 718.68" at three locations
- Sheet S20 SHAFT #3 (MERRY OAKS SHAFT) SECTION I
 - Replace Note No. 1 and 2 in its entirety with the following revised Note 1 and 2:
 - "1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.

2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW SAN ANTONIO WATER SYSTEM 8 of 11 W-6 Upper Segment: HWY 90 to SW Military Drive Sewer Main Project | Addendum 1 CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE".

- Revise shaft depth dimension from "89'-0 5/8"" with the following: "89'-6 1/8"".
- Sheets S21- SHAFT #3 (MERRY OAKS SHAFT) ENLARGED SECTION I
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S22 SHAFT #3 (MERRY OAKS SHAFT) ENLARGED SECTION II
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S23 SHAFT #4 (WATER TOWER SHAFT) LOWER LEVEL PLAN AT EL 622.25'
 - Revise the following callout: "HALF PIPE SECTION EMBEDDED IN CHANNEL SEE DWG S-11" with the following: "HALF PIPE SECTION EMBEDDED IN CHANNEL – SEE DWG S24".
- Sheet S26 SHAFT #4 (WATER TOWER SHAFT) SECTION I
 - Replace Note No. 1 and 2 in its entirety with the following revised Note 1 and 2:

"1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.

2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE".

- Sheet S27 SHAFT #4 (WATER TOWER SHAFT) ENLARGED SECTION I
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S28 SHAFT #4 (WATER TOWER SHAFT) ENLARGED SECTION II
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S29 SHAFT #5 (HOTEL SHAFT) LOWER LEVEL PLAN AT EL 632.99':
 Revise the reference to sheet in the callouts at two locations from "S28" with the following: "S30".
- Sheet S31 SHAFT #5 (HOTEL SHAFT) UPPER LEVEL SLAB PLAN AT EL 745.04', -- Revise and replace sheet in its entirety.
 - Revise Elevation callouts "EL 745.04" to the following: "EL 7747.33" at three locations.
- Sheet S32 SHAFT #5 (HOTEL SHAFT) SECTION I:

• Replace Plan Notes 1,2 and 3 in its entirety with the following revised Notes 1,2 and 3 "Notes:

1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.

2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW

CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE.

3. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO".

- Revise shaft depth dimension from "92'-7 ¹/₄"" to the following: "92'-9 ³/₄"".
- Sheet S33 SHAFT #5 (HOTEL SHAFT) ENLARGED SECTION I
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S34 SHAFT #5 (HOTEL SHAFT) ENLARGED SECTION II:

• Replace Notes 1 in its entirety with the following: "Note:

1. PIPE SECTION DOES NOT REPRESENT TRUE PROFILE DUE TO THE LOCATION OF SECTION CUT. SEE PLANS FOR PIPE DIA AND PLAN RADIUS INFO."

- Revise reference in the boxed note from '1/S33' with the following: '1/S14.
- Sheet S36 SHAFT #6 (SOLIDS HANDLING SHAFT) & 7 (W-1 CONNECTION SHAFT) SECTION I-Revise and replace sheet in its entirety.
 - o Delete callout that reads "Concrete Construction joint" at one location.
 - Replace the Notes 1 and 2 per attached drawing.
- Sheet S39 SHAFT #6 (SOLIDS HANDLING SHAFT) LOWER LEVEL PLAN AT EL 653.72':
 - Revise the callout on Detail 2 "8" POLYMER CONC WALL" with the following: "POLYMER CONCRETE RISER STRUCTURE".
- Sheet S40 SHAFT #6 (SOLIDS HANDLING SHAFT) UPPER LEVEL SLAB PLAN AT EL 682.61', -Revise and replace sheet in its entirety.
 - o Revise Elevation callouts "EL 682.61" with the following: "EL 682.75" at two locations
 - Add the top of concrete elevation the slab "TOC EL=682.75".
- Sheet S41 SHAFT #6 (SOLIDS HANDLING SHAFT) SECTION I
 - Replace Note No. 1 and 2 in its entirety with the following revised Note 1 and 2:

"1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.

2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE".

- o Revise shaft depth dimension from "28'-11 3/8"" with the following: "29'-1"".
- Revise the title on Detail 2 as follows:

"GATE COLUMN REINFORCING DETAIL" with the following: "GATE FRAME SUPPORT COLUMN DETAIL".

- Sheet S42 SHAFT #6 (SOLIDS HANDLING SHAFT) SECTION II, Revise and Replace sheet in its entirety.
 - Delete all reinforcement callout for the concrete foundation slab and add the following new note: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S43 SHAFT #6 (SOLIDS HANDLING SHAFT) ENLARGED SECTION I
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".

- Sheet S45 SHAFT #7 (W-1 CONNECTION SHAFT) LOWER LEVEL PLAN AT EL 653.72':
 - Add 6-ft concrete encasement around the 104" Dia. pipe adjacent to the riser structure.
- Sheet S47 SHAFT #7 (W-1 CONNECTION SHAFT) UPPER LEVEL SLAB PLAN AT EL 682.61', Revise and replace sheet in its entirety.
 - o Revise Elevation callouts "EL 682.61" with the following: "EL 682.75" at three locations
 - Delete note for thickness of slab at one location.
- Sheet S49 SHAFT #7 (W-1 CONNECTION SHAFT) ENLARGED SECTION I, Revise and replace the sheet in its entirety.
 - Delete all reinforcement callout for the concrete foundation slab and add a new note as below "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S48 SHAFT #7 (W-1 CONNECTION SHAFT) SECTION I
 - Replace Note No. 1 and 2 in its entirety with the following revised Note 1 and 2:
 I. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTING THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS.
 POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETRE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT GRADE.
 - Revise shaft depth dimension from "43'-0 3/4"" with the following "43'-2 3/8"".
- Sheet S50 SHAFT #7 (W-1 CONNECTION SHAFT) ENLARGED SECTION II
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN".
- Sheet S51 SHAFT #8 (BALLPARK SHAFT) LOWER LEVEL PLAN AT EL 649.15':
 - Add Flow Line Elevation callout at the center of pipe inside the shaft to read: "FL. EL. 647.15"
- Sheet S52 SHAFT #8 (BALLPARK SHAFT) LOWER LEVEL PLAN AT EL 657.48', Revise and replace sheet in its entirety.
 - o Add note for radiused smooth edges at the flow channel.
- Sheet S53 SHAFT #8 (BALLPARK SHAFT) VORTEX INLET PLAN:
 - Delete the following callout on Detail 3: "Turn Buckle"
- Sheet S54 SHAFT #8 (BALLPARK SHAFT) UPPER LEVEL SLAB PLAN AT EL 701.13' Revise and replace sheet in its entirety.
 - o Revise Elevation callouts "EL 701.13" with the following: "EL 701.24" at two locations.
 - o Add note for removable slab sections on the plan at two locations.
- Sheet S55 SHAFT #8 (BALLPARK SHAFT) SECTION I, Revise and replace sheet in its entirety.
 - o Revise note for embedded energy dissipator at the vortex drop as shown.
 - Revise note No. and 1 and 2 as per attached drawings.
 - o Revise shaft depth as shown
- Sheet S56 SHAFT #8 (BALLPARK SHAFT) SECTION II:
 - Add Straps to anchor 60-inch vortex drop pipe at two locations equally spaced and add the following callout for the Straps:

"1/S6, Typ of 2"

- o Revise shaft depth dimension from "45'-7 3/4"" to the following "45'-9 1/8"".
- Sheet S57 SHAFT #8 (BALLPARK SHAFT) ENLARGED SECTION
 - Delete size and spacing callout for the reinforcing bars at the cast-in-place concrete foundation slab in its entirety and add the following box note below the section: "Note: SEE S14 FOR ADDN'L REINF INFO NOT SHOWN"
- Sheet S58 SHAFT #8 (BALLPARK SHAFT) SECTIONS AND DETAILS Revise and replace sheet in its entirety.
 - Detail 1: Clarify vortex inlet pipe size as shown.

CLARIFICATIONS

1. The estimated cost, originally noted on the on February 24, 2020, has been revised to \$180,533,100.

END OF ADDENDUM 1

This Addendum is 50 pages in its entirety, including attachments.

Attachments:

- Video Disclaimer Form (1 page)
- Price Proposal (4 pages)
- Special Specification SS 01130 Escrow Bid Documents (3 pages)
- Plan Sheets (G6, C1, C7, C16, C49, C67, C72, C74, C75, C80, C83, C86A, S8, S12, S14, S19, S31, S36, S40, S42, S47, S49, S52, S54, S55, & S58)

Jeffrey A. Farnsworth Kimley-Horn and Associates, Inc.



VIDEO DISCLAIMER FORM

The video being provided through the file transfer protocol (FTP) site is for the <u>Request for</u> <u>Interest – W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project</u>. Since the video was recorded, some views may have changed. The video is being made available for the sole purpose of providing background information that may assist Respondents in preparing their response to this RFCSP. SAWS makes no representations about the accuracy of this information and disclaims any responsibility for its use.

The FTP details will be provided upon return of this completed form to Florinda Gonzales, Interim Contract Administrator, via email to: <u>florinda.gonzales@saws.org</u>

Firm / Vendor Name

Prime Contractor? Yes ____ No ____

Representative's Printed Name / Title

Signature

Typed/Printed Firm Name

Date: _____

PRICE PROPOSAL

PROPOSAL OF ______, a corporation

a partnership consisting of

an individual doing business as

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Request for Competitive Sealed Proposals, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices to wit:

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

TBM and Project Mobilization and Prep of ROW shall be limited to the maximum percentage shown. If the percentage exceeds the allowable maximum stated for mobilization and or preparation of ROW. SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.

RESPONDENT'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following: Addendum Nos.

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE PROPOSAL.

The Respondent offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within 1217 calendar days after the start date, as set forth in the Authorization to Proceed. The Respondent understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.

Complete the additional requirements of the Proposal which are included on the following pages.

W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project

		GENERAL PRICE PROPOSAL ITEM	1S		-	
LINE NO.	ITEM NO.	ITEM DESCRIPTION	QUANTITY:	UNIT	UNIT PRICE	PROPOSAL COST:
1	103.1	REMOVE CONCRETE CURB (COSA SPEC)	60	LF	\$	\$
2		REMOVE MISCELLANEOUS CONCRETE	813	SF	\$	\$
3		INSTALL TEMPORARY CHAIN-LINK WIRE FENCE	150	LF	\$	\$
4 5		INSTALL CONCRETE COSA TRAIL 24' CANTILEVER MANUAL SLIDE GATE	89 7	SY EA	\$ ¢	\$ ¢
5		REMOVE AND RELOCATE JBSA PERIMETER FENCE	365	LF	\$ \$	\$ ¢
7		REMOVE AND RELOCATE JOSA FERMINETER FERMINE	456	SY	\$ \$	Ś
8		REMOVE CONC (DRIVEWAYS) (TXDOT SPEC)	675	SY	\$	\$
9		REMOVE CONC (CURB) (TXDOT SPEC)	1,615	LF	\$	\$
10	105 6014	REMOVING STAB BASE & ASPH PAV (7"-12")	295	SY	\$	\$
11		FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	6,015	SY	\$	\$
12		TACK COAT (COSA SPEC)	694	GAL	\$	\$
13		HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	61	SY	\$	\$
14		HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	6,936	SY	Ş	Ş
15	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	6,720	SY	\$	\$
16		CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	6,015	SY	\$	\$
17		ONE COURSE SURFACE TREATMENT (TXDOT SPEC) SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH)	970	SY	\$	\$
18	305 6002	(TXDOT SPEC)	1,645	SY	\$	\$
19	305 6003	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4" DEPTH) (TXDOT SPEC)	1,940	SY	\$	\$
20	340	HOT MIX ASPHALTIC PAVEMENT - TYPE D (4-INCH COMPACTED DEPTH) (TXDOT SPEC)	970	SY	\$	\$
21		TACK COAT (TXDOT SPEC)	167	GAL	\$	\$
22		D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	185	TN	\$	\$
23		FLOWABLE FILL (TXDOT SPEC)	1,471	CY	\$	\$
24		RC PIPE (CL III) (24-INCH) (TXDOT SPEC)	20	LF	Ş	Ş
25 26		SET (TY II) (24-INCH) (RCP) (4:1) (P) (TXDOT SPEC) CONCRETE CURB (COSA SPEC)	4 60	EA LF	\$ ¢	\$ ¢
20		BARRICADES, SIGNS, AND TRAFFIC HANDLING (TXDOT SPEC)	1	LF	२ ९	\$
28		CONC CURB (TY II) (TXDOT SPEC)	1,184	LF	Ś	Ś
29		CONC CURB (TY III) (TXDOT SPEC)	238	LF	\$	\$
30		DRIVEWAYS (CONC) (TXDOT SPEC)	1,979	SY	\$	\$
31	531 6002	CONC SIDEWALKS (5-INCH) (TXDOT SPEC)	421	SY	\$	\$
32	SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	1	LS	\$	\$
33	540.7	CONSTRUCTION PERIMETER FENCE (COSA SPEC)	13,850	LF	\$	\$
34	550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	1,132	LF	\$	\$
35		ALUMINUM SIGNS (TY A) (TXDOT SPEC)	14	EA	\$	\$
36		RELOCATE SM RD SN SUP&AM TY 10BWG (TXDOT SPEC)	2	EA	\$	\$
37		STORM WATER POLLUTION PREVENTION PLAN	1	LS	\$	\$
38 39		GATE, FENCING, AND PROPERTY MARKER DETAILS 8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	2,140 10		\$ ¢	\$ \$
40		8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10-14 DEPTH) 8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	57	LF	२ ९	ې د
40		8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14-18 DEPTH) 8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	13	LF	\$ \$	\$
42		12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (6'-10' DEPTH)	48	LF	\$	\$
43		12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	55	LF	\$	\$
44	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	152	LF	\$	\$
45		12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	89	LF	\$	\$
46		12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (22'-26' DEPTH)	92	LF	\$	\$
47		15-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679, 46 PSI) (10'-14' DEPTH)	70	LF	Ş ¢	\$
48		24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (6'-10' DEPTH)	38	LF	\$ ¢	\$ ¢
49 50		24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (10'-14' DEPTH) SANITARY SEWERS - PIPE TESTING AND ACCEPTANCE	42	LF LS	ې د	\$ ¢
50		FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	1 10	EA	۲ ۲	\$ \$
52	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	4	EA	Ś	\$
53	853A	(5' DIAMETER)	1	EA	\$; \$
54	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE W/	2	EA	\$	\$
		DROP, MITER (12' DIAMETER)			ć	ć
55		EXTRA DEPTH (>6') FIBERGLASS MANHOLE, MITER (4' DIAMETER) EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	135 22	VF VF	ې د	\$ \$
E 6		EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER) EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (12' DIAMETER)	47	VF	ې د	\$ \$
56 57	8237	CANAGES TH (20) TEE DASE THEN OLASS WANTOLL, WITER (12 DIAWETER)	47	VI.	۲ 	Y
56 57 58	853A 853B	FIBER-REINFORCED SANITARY SEWER MANHOLES - MANHOLE TESTING AND ACCEPTANCE	1	LS	\$	\$
57 58	853B				\$	\$
57 58 59	853B 855	RECONSTRUCTION OF EXISTING MANHOLES	1	EA	\$	\$
57 58	853B 855 857				\$ \$ \$ \$	\$ \$ \$ \$

W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project

		GENERAL PRICE PROPOSAL ITEN	/IS			
LINE NO.	ITEM NO.	ITEM DESCRIPTION	QUANTITY:	UNIT	UNIT PRICE	PROPOSAL COST:
63	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH)	40		\$	\$
64	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	75	LF	\$	\$
65	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	51	LF	\$	\$
66	SP857	HOBAS PIPE MATERIAL ONLY (60-INCH, 78-INCH, & 104-INCH)	1	LS	\$18,098,685.00	\$18,098,685.00
67	858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	4	CY	\$	\$
68		GEOTECHNICAL INSTRUMENTATION AND MONITORING	1	LS	Ş	\$
69	02410	GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP SANITARY SEWER)	924	LF	\$	\$
70	02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	27,664	LF	\$	\$
71	02415	EXCAVATION VIA GUIDED BORING OR MICROTUNNEL (36-INCH)	750	LF	\$	\$
72	02415	INSTALLATION OF STEEL CASING PIPE (36-INCH)	750	LF	\$	\$
73		CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (8-INCH)	378	LF	\$	\$
74		CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (12-INCH)	372	LF	\$	\$
75		INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	2,523	LF	\$	\$
76	02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY	26,200	LF	\$	\$
77	02431	ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	2,523	LF	\$	\$
78	02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	26,130	LF	\$	\$
79	02440	GENERAL SHAFT REQUIREMENTS (W-6 MIDDLE SEGMENT SHAFT)	1	LS	\$	\$
80	02440	GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT)	1	LS	\$	\$
81	02440	GENERAL SHAFT REQUIREMENTS (MERRY OAKS SHAFT)	1	LS	\$	\$
82	02440	GENERAL SHAFT REQUIREMENTS (WATER TOWER SHAFT)	1	LS	\$	\$
83	02440	GENERAL SHAFT REQUIREMENTS (HOTEL SHAFT)	1	LS	\$	\$
84	02440	GENERAL SHAFT REQUIREMENTS (SOLIDS HANDLING SHAFT)	1	LS	\$	\$
85	02440	GENERAL SHAFT REQUIREMENTS (W-1 CONNECTION SHAFT)	1	LS	\$	\$
86	02440	GENERAL SHAFT REQUIREMENTS (BALLPARK SHAFT)	1	LS	\$	\$
87	02440	GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT)	1	LS	\$	\$
88	02600	POLYMER CONCRETE SANITARY SEWER MANHOLE, DROP (12' DIAMETER) (ALL DEPTHS)	1	EA	\$	\$
89	02610	STEEL CASING - (48-INCH)(0.625-INCH THICK)	167	LF	\$	\$
90	00862	ABANDON - SANITARY SEWER MAIN (54-INCH)	5,533	LF	\$	\$
91	862.1	ABANDON - SANITARY SEWER MAIN (48-INCH)	447	LF	\$	\$
92	862.1	ABANDON - SANITARY SEWER MAIN (15-INCH)	910	LF	\$	\$
93	862.1	ABANDON - SANITARY SEWER MAIN (12-INCH)	526	LF	\$	\$
94		ABANDON - SANITARY SEWER MAIN (10-INCH)	178	LF	\$	\$
95	00862	ABANDON - SANITARY SEWER MAIN (8-INCH)	191	LF	\$	\$
96	864-S1	BYPASS PUMPING SMALL DIAMETER SANITARY SEWERS (<24-INCH)	1	LS	\$	\$
97		BYPASS PUMPING LARGE DIAMETER SANITARY SEWERS (≥24-INCH)	1	LS	\$	\$
98	866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	3,146	LF	\$	\$
99	866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	8,503	LF	\$	\$
100	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	26,672	LF	\$	\$
101	866A	EXISTING SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	1,737	LF	\$	\$
102		EXISTING SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	5,980	LF	\$	\$
103		SLIP-LINING SANITARY SEWERS(SLIPLINE 48" STEEL CASING W/ 24")(10'-14' DEPTH)	167		\$	\$
104		SLIP-LINING SANITARY SEWERS(SLIPLINE EX. 54" W/ 48" STEEL CASING)(10'-14' DEPTH)	160	LF	\$	\$
105		STAINLESS STEEL SLIDE GATES	1	LS	\$	\$
106	11310	PACKAGE METERING MANHOLE	1	LS	\$	\$
UBTO	<u>TAL A (</u> I	TEMS 1-106)	\$			
107	100	INTERMEDIATE DEMOBILIZATION BYPASS EQUIPMENT RENTAL	20	MD	\$	\$
108	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	20	MD	\$	\$
109	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH	20	MD	\$	\$
110	02086	EXCAVATION, CLASSIFICATION, TRANSPORTATION, AND DISPOSAL OF TPH AFFECTED SOIL	13,000	TON	\$	\$
111		W-1 CLEANING AND MAINTENANCE	1	LS		
112	01020	TIME EXTENSION FOR W1-BYPASS	1	AL	\$3,700,000.00	\$3,700,000.00
113	01020	ODOR CONTROL	1	AL	\$1,650,000.00	\$1,650,000.00
114	SC8.7	EARLY COMPLETION BONUS ALLOWANCE	1	AL	\$3,000,000.00	\$3,000,000.00
115	100A	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (OPEN CUT)	1	EA	\$	\$
	•	FEMS 107-115)	\$	_		4
116	100B	TBM MOBILIZATION (MAX 5% OF ITEMS 1 TO 106)	1	LS	Ş	\$
117	100	MOBILIZATION (MAX 2% OF ITEMS 1 TO 106)	1	LS	\$	\$
118		PREPARING RIGHT-OF-WAY (MAX 1% OF ITEMS 1 TO 106)	1	LS	Ş	\$
		FEMS 116-118)	\$			

TOTAL (SUBTOTAL A+ SUBTOTAL B+ SUBTOTAL C)

\$

PROPOSAL CERTIFICATION

Accompanying this proposal is a Bid Bond or Certified or Cashier's Check payable to the Order of the San Antonio Water System for ______ dollars (\$______),

which amount represents five percent (5%) of the total bid price. Said bond or check is to be returned to the bidder unless the proposal is accepted and the bidder fails to execute and file a contract within $\underline{10}$ calendar days after the award of the Contract, in which case the check shall become the property of said San Antonio Water System, and shall be considered as payment for damages due to delay and other inconveniences suffered by said San Antonio Water System due to the failure of the bidder to execute the contract. The San Antonio Water System reserves the right to reject any and all bids.

It is anticipated that the Owner will act on this proposal within $\underline{90}$ calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within $\underline{10}$ calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

It is anticipated that the Owner will provide written Authorization to Proceed within $\underline{30}$ days after the award of the Contract.

The work called for in this Contract shall commence on the date indicated in the SAWS written Authorization to Proceed Under no circumstances shall the work commence prior to the date provided for in the SAWS issued, written Authorization to Proceed. Work shall be completed in full within <u>1217</u> consecutive calendar days.

The undersigned further acknowledges compliance with "Wage and Labor Standard Provisions" of this contract and the use of the Blue Book rental rates for establishment of equipment rental rates whether owned or leased during the course of this Contract.

In completing the work contained in this proposal the undersigned certifies that bidder's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin and that the bidder will affirmatively cooperate in the implementation of these policies and practices.

Signed: _

Company Representative

Company Name

Address

Please return bidder's check to:

Company Name

Address

PART 1 GENERAL

1.01 DESCRIPTION

- A. This section specifies the submittal, use, and disposition of Respondent's (CONTRACTOR's and SUBCONTRACTOR's) Escrow Bid Documentation.
- B. The Escrow Bid Documents provided shall be specific enough that a third party could look at the Escrow Bid Documentation and determine the labor, material, and equipment costs for each Contract Division and Specification Section within the Division. The Escrow Bid Documents should also identify field and home office overhead and profit.
- C. The Owner acknowledges that the Escrow Bid Documents are property of the Respondent and constitute trade secrets and proprietary information, as well as a substantial financial investment, and agrees to safeguard the Escrow Bid Documents to the fullest extent permitted by law, subject to compliance with the Texas Public Information Act.
- D. Escrow Bid Documents will be retained for the duration of the Contract plus the warranty period in a sealed envelope. Escrow Bid Documents will only be unsealed to assist in the negotiation of price adjustments and the settlement of disputes, claims, and contract modifications when a resolution cannot be reached. Escrow Bid Documents will not be used for evaluation of the Respondent's anticipated methods of construction. The Escrow Bid Documents are, and shall always remain, the property of the Respondent, subject to use by the Owner, Owner's Representative, Respondent, or Article X members as provided herein.

1.02 REQUIREMENTS

- A. Respondent shall submit the acknowledgement form, completed and signed, at the time of submittal of proposal package.
- B. The apparent successful Respondent will be notified as soon as practical after an initial evaluation of the proposals. Within three (3) business days after notification, the apparent successful Respondent shall assemble and submit to the Owner a copy of all information and calculations used by the Respondent to determine their price proposal for this project.
- C. The Escrow Bid Documentation shall be accompanied with a notarized certification attached to the outside of the container signed by an individual authorized by the Respondent to execute the proposal, stating that the material in the Escrow Bid Documents constitutes all the documentary information used in the preparation of the proposal and that the Respondent has personally examined the contents of the Escrow Bid Documents container and has found that the documents in the container are complete.
- D. Respondents are encouraged to submit Escrow Bid Documents in their usual cost

estimating format; a standard format is not required. It is not the intention of this article to cause the Respondent extra work during the preparation of the proposal, but to ensure that the Escrow Bid Documents are adequate to understand and interpret the information and calculations used to estimate the cost of the work. Escrow Bid Documents shall clearly itemize the estimated costs for each bid item contained in the Price Proposal.

- E. Pay items shall be broken down into sub-items to detail the cost of components applicable to each. Estimated costs shall be broken down in the Respondent's usual estimate categories such as direct labor, permanent materials, expendable materials, equipment rental or amortization, equipment parts and supplies, maintenance and repair labor, and subcontract cost as appropriate. Major subcontract work shall be detailed. Plant and equipment and indirect costs shall be detailed in the Respondent's usual format. Plant and equipment charges, indirect costs, and markups shall be identified and allocated to each pay item as appropriate.
- F. The Escrow Bid Document shall include all quantity takeoffs; calculations of rates of production and progress; copies of quotes from subcontractors and suppliers; copies of all geotechnical information, including boring logs and reports prepared for the Respondent; and memoranda, narratives, and all other information and adjustments used by the Respondent to arrive at the prices contained in the price proposal.
- G. Contract Documents provided by the Owner should not be included in the Escrow Bid Documents.
- H. For price items totaling less than ten thousand dollars (\$10,000), estimated unit costs are acceptable without a detailed cost estimate, provided that labor, equipment, materials, and subcontractors, as applicable, are included and that indirect costs, contingencies, and markup, as applicable, are also included.
- I. The Escrow Bid Documents shall include a submittal on the Tunnel Boring Machines as it is the primary equipment the Respondent intends to use for excavating the tunnel. This submittal in the Escrow Bid Documents shall include all assumptions regarding machines' performance including advance rate, utilization rate, type and number of disc cutter changes anticipated, estimated duration between disc cutter changes, etc.

1.03 RESOLUTION

- A. The Escrow Bid Documents shall be examined by the Owner, Owner's Representative, Respondent, and Article X members, at any time deemed necessary by either the Owner, Owner's Representative, Respondent, or Article X members, to assist in the negotiation of price adjustments and change orders, or the settlement of disputes.
- B. Examination of the Escrow Bid Documents is subject to the following conditions:

San Antonio Water System W-6 Upper Segment: HWY 90 to SW Military Drive Sewer Main Project KHA No. 068665052 February 2020

- a. As trade secrets, the Escrow Bid Documents are proprietary and confidential.
- b. Owner, Owner's Representative, and Respondent shall each designate, in writing to the other party a minimum of 10 days prior to examination, representatives who are authorized to examine the Escrow Bid Documents. With the consent of the Owner, Owner's Representative, and Respondent, the Escrow Bid Documents may be examined if required to assist in the settlement of a dispute.

In addition, with notification to the Owner, Owner's Representative, and Respondent, the Escrow Bid Documents may be examined if such examination is necessary for the Article X member to exercise its responsibility to assist in the settlement of a dispute.

- c. No other person shall have access to the Escrow Bid Documents except those designated above; and
- d. Access to the Escrow Bid Documents will take place only in the presence of duly designated representatives of the Owner, Owner's Representative, Respondent, and if necessary, Article X members, except that, if the Respondent refuses to be present or to cooperate in any other way in the review of the documents, the Owner, Owner's Representative, and if necessary, Article X members may upon notice to the Respondent, review such documents without the Respondent being present.
- C. No other Proposal Documentation concerning the Respondent's calculation of the bid will be utilized during disputes.
- D. Upon completion of the examination the Escrow Bid Documents will be resealed and continue to retained by the Owner for the remaining duration of the Contract plus the warranty period.
- E. Upon completion of the Contract plus the warranty period the documents will be returned to the Respondent unopened in the sealed container.

END OF SECTION

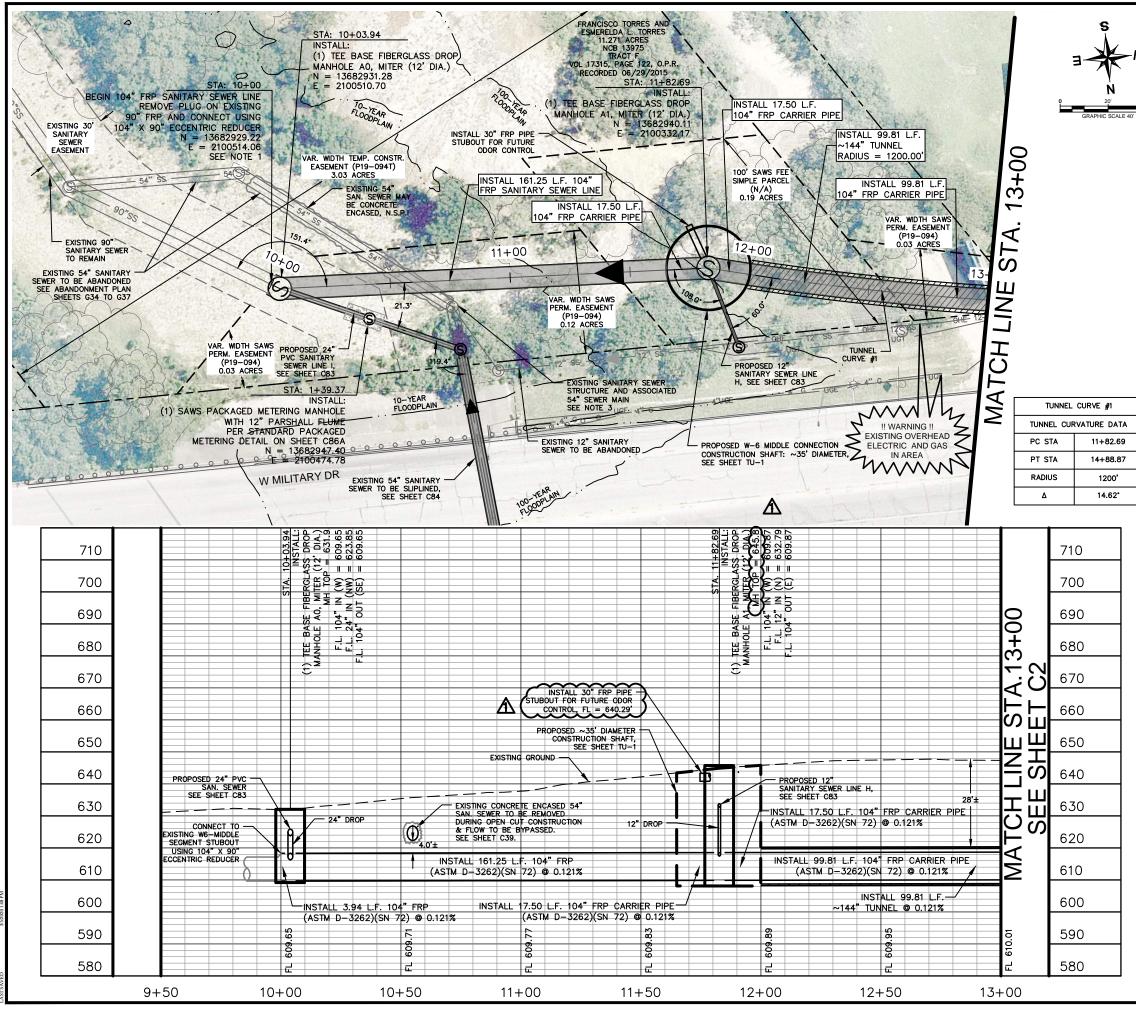
#	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	60
2	103.4	REMOVE MISCELLANEOUS CONCRETE	SF	813
3	C85A (1)	INSTALL TEMPORARY CHAIN-LINK WIRE FENCE	LF	150
4	C85A (2)	INSTALL CONCRETE COSA TRAIL	SY	89
5	C85	24' CANTILEVER MANUAL SLIDE GATE	EA	7
6	C85B	REMOVE AND RELOCATE JBSA PERIMETER FENCE	LF	365
7	104 6015	REMOVE CONC (SIDEWALKS) (TXDOT SPEC)	SY	456
8	104 6017	REMOVE CONC (DRIVEWAYS) (TXDOT SPEC)	SY	675
9	104 6021	REMOVE CONC (CURB) (TXDOT SPEC)	LF	1,615
10	105 6014	REMOVING STAB BASE & ASPH PAV (7"-12")	SY	295
11	200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	SY	6,015
12	203.1	TACK COAT (COSA SPEC)	GAL	694
13	205.2	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	61
14	205.4	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	6,936
15	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	6,720
16	209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	SY	6,015
17	300	ONE COURSE SURFACE TREATMENT (TXDOT SPEC)	SY	970
18	305 6002	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (TXDOT SPEC)	SY	1,645
19	305 6003	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (4" DEPTH) (TXDOT SPEC)	SY	1,940
20	340	HOT MIX ASPHALTIC PAVEMENT - TYPE D (4-INCH COMPACTED DEPTH) (TXDOT SPEC)	SY	970
21	340 6272	TACK COAT (TXDOT SPEC)	GAL	167
22	341 6029	D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	TN	185
23	401	FLOWABLE FILL (TxDOT SPEC)	CY	1,471
24	464 6003	RC PIPE (CL III) (24-INCH) (TXDOT SPEC)	LF	20
25	467 6359	SET (TY II) (24-INCH) (RCP) (4:1) (P) (TXDOT SPEC)	EA	4
26	500.1	CONCRETE CURB (COSA SPEC)	<u>مل</u> هم	
27	502 6025	BARRICADES, SIGNS, AND TRAFFIC HANDLING (TXDOT SPEC)	LS	1
28	529 6002	CONC CURB (TY II) (TXDOT SPEC)		1,184
29	529 6025	CONC CURB (TY III) (TXDOT SPEC)	LF	238
30	530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	SY	1,979
31	531 6002	CONC SIDEWALKS (5-INCH) (TXDOT SPEC)	SY	421
32	SP540	TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC)	LS	1
33	540.7	CONSTRUCTION PERIMETER FENCE (COSA SPEC)	LF	13,850
34	550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	1,132
35	636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	EA	14
36	644 6068	RELOCATE SM RD SN SUP&AM TY 10BWG (TXDOT SPEC)	EA	2
37	SWPPP	STORM WATER POLLUTION PREVENTION PLAN	LS	1
38	845	GATE, FENCING, AND PROPERTY MARKER DETAILS	LF	2,140
39	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	LF	10
40	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	LF	57
41	848A	8-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	LF	13
42	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (6'-10' DEPTH)	LF	48
43	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	LF	55
44	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (14'-18' DEPTH)	LF	152
45	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (18'-22' DEPTH)	LF	89
46	848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (22'-26' DEPTH)	LF	92
47	848A	15-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679, 46 PSI) (10'-14' DEPTH)	LF	70
48	848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (6'-10' DEPTH)	LF	38
49	848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (10'-14' DEPTH)	LF	42
50	848B	SANITARY SEWERS - PIPE TESTING AND ACCEPTANCE	LS	1
51	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	EA	10
52	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (# DRAMETER)	EA	4
53	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	EA	1
54	853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE W/ DROP, MITER (12' DIAMETER)	EA	2
55	853A	EXTRA DEPTH (>6') FIBERGLASS MANHOLE, MITER (4' DIAMETER)	VF	135
56	853A	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	VF	
50 57	853A	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (3'DIAMETER)	VF VF	$\xrightarrow{22}{47}$
57 58	853A 853B	FIBER-REINFORCED SANITARY SEWER MANHOLES - MANHOLE TESTING AND ACCEPTANCE	LS	لمش
58 59		RECONSTRUCTION OF EXISTING MANHOLES	EA	1
59 60	855	60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	LF	1
		00-INCH FRP (ASTM D-3262) (SN 72) SANTIART SEWER LINE (25-30 DEPTH) 78-INCH FRP (ASTM D-3262) (SN 72) SANTARY SEWER LINE (30-35' DEPTH)		
61 (857		LF	8
62	857	78-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (35'-40' DEPTH)	LF	300
63	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH) 104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	LF	40
64	857		LF	75
65	857		LF	51
66	SP857	HOBAS PIPE MATERIAL ONLY (60-INCH, 78-INCH, & 104-INCH)	LS	1
67	858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	4
68	01520		LS	1
69	02410	GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP SANITARY SEWER)	LF	924
70	02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	LF	27,664
71	02415	EXCAVATION VIA GUIDED BORING OR MICROTUNNEL (36-INCH)	LF	750
72	02415	INSTALLATION OF STEEL CASING PIPE (36-INCH)	LF	750
73	02415	CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (8-INCH)	LF	378
74	02415	CARRIER PIPE INSTALLED IN BORE/MICROTUNNEL CASING PIPE (12-INCH)	LF	372
/4				

#	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
76	02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	LF	26,200
77	02431	ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	2,523
78	02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	26,130
79	02440	GENERAL SHAFT REQUIREMENTS (W-6 MIDDLE SEGMENT SHAFT)	LS	1
80	02440	GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT)	LS	1
81	02440	GENERAL SHAFT REQUIREMENTS (MERRY OAKS SHAFT)	LS	1
82	02440	GENERAL SHAFT REQUIREMENTS (WATER TOWER SHAFT)	LS	1
83	02440	GENERAL SHAFT REQUIREMENTS (HOTEL SHAFT)	LS	1
84	02440	GENERAL SHAFT REQUIREMENTS (SOLIDS HANDLING SHAFT)	LS	1
85	02440	GENERAL SHAFT REQUIREMENTS (W-1 CONNECTION SHAFT)	LS	1
86	02440	GENERAL SHAFT REQUIREMENTS (BALLPARK SHAFT)	LS	1
87	02440	GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT)	LS	1
88	02600	POLYMER CONCRETE SANITARY SEWER MANHOLE, DROP (12' DIAMETER) (ALL DEPTHS)	EA	1
89	02610	STEEL CASING - (48-INCH)(0.625-INCH THICK)	LF	167
90	862.1	ABANDON - SANITARY SEWER MAIN (54-INCH)	LF	5,533
91	862.1	ABANDON - SANITARY SEWER MAIN (48-INCH)	LF	447
92	862.1	ABANDON - SANITARY SEWER MAIN (15-INCH)	LF	910
93	862.1	ABANDON - SANITARY SEWER MAIN (12-INCH)	LF	526
94	862.1	ABANDON - SANITARY SEWER MAIN (10-INCH)	LF	178
95	862.1	ABANDON - SANITARY SEWER MAIN (8-INCH)	LF	191
96	864-S1	BYPASS PUMPING SMALL DIAMETER SANITARY SEWERS (<24-INCH)	LS	1
97	864-S2	BYPASS PUMPING LARGE DIAMETER SANITARY SEWERS (24-INCH)	LS	1
98	866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	3,146
99	866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	8,503
100	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	26,672
101	866A	EXISTING SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	1,737
102	866A	EXISTING SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	5,980
103	1100	SLIP-LINING SANITARY SEWERS(SLIPLINE 48" STEEL CASING W/ 24")(10'-14' DEPTH)	LF	167
104	1100	SLIP-LINING SANITARY SEWERS(SLIPLINE EX. 54" W/ 48" STEEL CASING)(10'-14' DEPTH)	LF	160
105	11280	STAINLESS STEEL SLIDE GATES	LS	1
106	11310	PACKAGE METERING MANHOLE	LS	1
107	100	INTERMEDIATE DEMOBILIZATION BYPASS EQUIPMENT RENTAL	MD	20
108	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	MD	20
109	100	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH	MD	20
110	02086	EXCAVATION, CLASSIFICATION, TRANSPORTATION, AND DISPOSAL OF TPH AFFECTED SOIL	TON	13,000
111		W-1 CLEANING AND MAINTENANCE	LS	1
112	01020	TIME EXTENSION FOR W-1 BYPASS	AL	1
113	01020	ODOR CONTROL	AL	1
114	SC8.7	EARLY COMPLETION BONUS ALLOWANCE	AL	1
115	100A	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (OPEN CUT)	EA	1
116	100B	TBM MOBILIZATION (MAX 5% OF ITEMS 1 TO 106)	LS	1
117	100	MOBILIZATION (MAX 2% OF ITEMS 1 TO 106)	LS	1
118	101	PREPARING RIGHT-OF-WAY (MAX 1% OF ITEMS 1 TO 106)	LS	1

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No	3/9/2020	Texas Registered Firm, No. F-92		orn
ty	free dernewo			210-541-9166 210-541-8699
No.		Revision	Bу	Date
A	ADDENDUM NO. 1		JAF	3/9/2020
UE	SAN ANTONIO WATER SYSTEM	W-6 UPPER SE HWY 90 TO SW M SEWER M/ OVERALL QUA	ILITA AIN	RY DR TIES
DATE:	MARCH 2020	SAWS PROJECT NO.		SHEET NO.
DESIG	N: JKN	19-4519		
DRAW	N: CRW	KHA PROJECT NO.		G6
CHECK	ED: JAF	068665052		



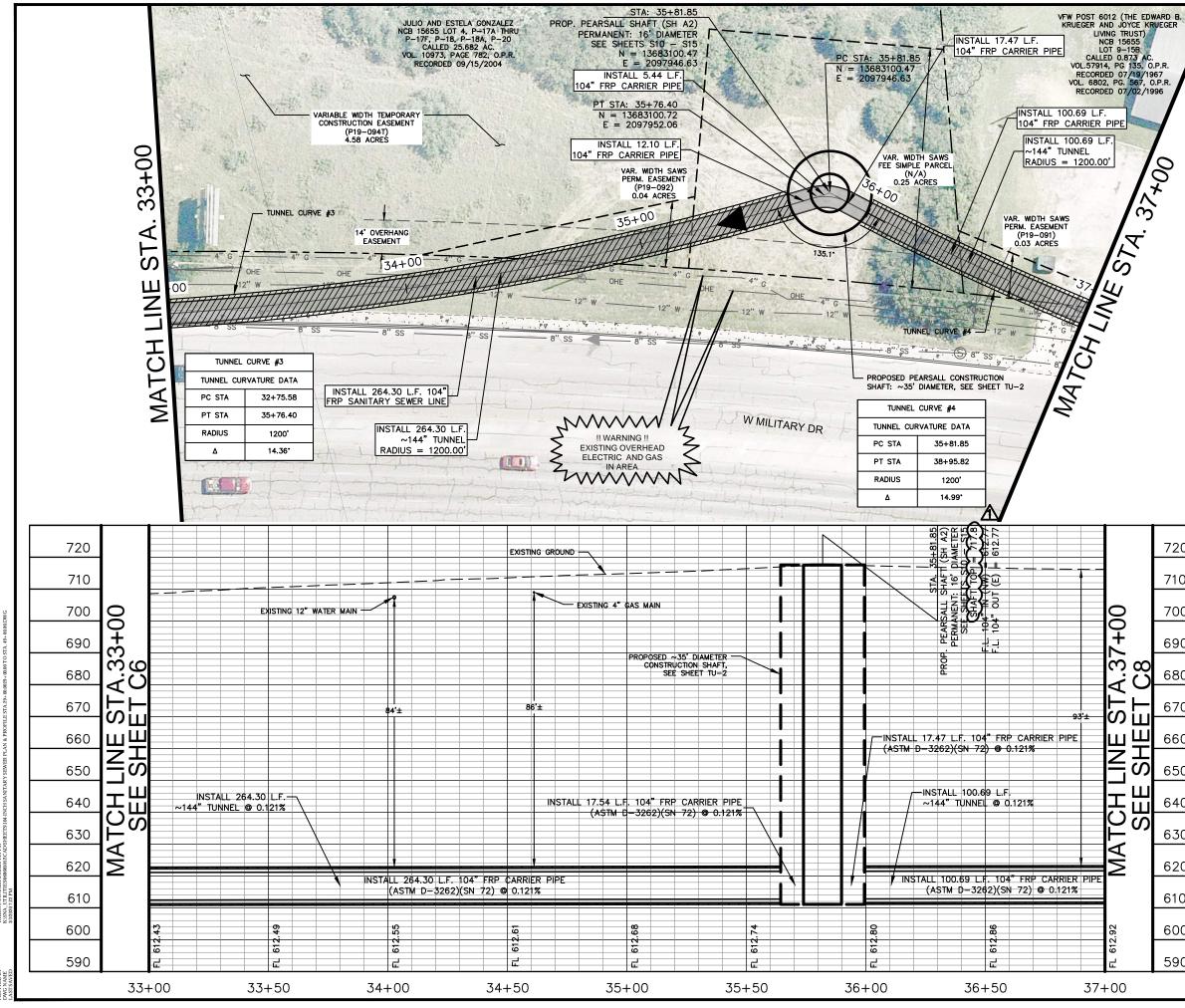
WILSON. CONNER 35/020149 PM K:SNA_UTILITIES068666052 CADSHEETS104-INCH SANTTARY SEWER PLAN & PROFILE STA 10+ 00:0010+ 00:00 TO STA. 29+ 00:001

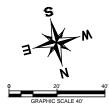
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		ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
		550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	165.19	
M		853A	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE W/ DROP, MITER (12' DIAMETER)	EA	2	
		853A	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (12' DIAMETER)	VF	46.18	<u>}</u> ⁄1\
	<u> </u>	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25' DEPTH)	LF	39.39	
	40'	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' DEPTH)	LF	74.88	
	A S	857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	LF	50.63	
		02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	LF	99.81	
		02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	LF	134.81	
		02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	134.81	
		02440	GENERAL SHAFT REQUIREMENTS (W-6 MIDDLE SEGMENT SHAFT)	LS	1	
	10750	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	300]

- PRIOR TO COMMENCING PHASE 1 (SEE CONSTRUCTION SEQUENCING SHEET G29), CONTRACTOR SHALL LOCATE W-6 MIDDLE SEGMENT STUBOUT AND VERIFY ELEVATION. CONTRACTOR WILL NOT BE ALLOWED TO PROCEED TO FURTHER PHASES UNTIL THIS STUBOUT ELEVATION IS VERIFIED AND PROVIDED TO SAWS AND DESIGN ENGINEER.
- 2. DUE TO SOIL CONDITIONS BETWEEN STA. 11+83 AND STA. 24+75, THE USE OF PRESSURIZED FACE TUNNELING METHODS, INCLUDING GASKETED PRE-CAST CONCRETE SEGMENTS OR GASKETED LINER PLATE, IS REQUIRED (NSPI). REFERENCE THE GEOTECHNICAL BASELINE REPORT.
- 3. CONTRACTOR TO BE AWARE OF CLOSE PROXIMITY OF EXISTING SANITARY SEWER STRUCTURE AND ASSOCIATED 54" PIPE TO THE PROPOSED 104" PIPE. CONTRACTOR TO UTILIZE INSTALLATION MEANS AT THIS LOCATION TO ENSURE THE INTEGRITY OF THE STRUCTURE AND 54" PIPE SO THAT NO SEWER SPILLS OCCUR. PRIOR TO INSTALLATION OF THE 104" SEWER AT THIS LOCATION, CONTRACTOR SHALL SUBMIT PLAN FOR INSTALLATION FOR REVIEW BY SAWS AND DESIGN ENGINEER.
- 4. FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- 5. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-1.
- 6. THREE-PHASE POWER WILL BE AVAILABLE FOR INSTALLATION AT SHAFT #1 W-6 MIDDLE CONNECTION SHAFT. THE USE OF THREE-PHASE IS AT THE SOLE DISCRETION OF THE CONTRACTOR WHO MAY ELECT TO USE ALTERNATE MEANS AND METHODS OF POWER SUPPLY.

LEGE	<u>IND</u>				OFILE VIEW: 30' VERTICAL
PROPO	DSED SANITARY SEWE	R LINE		-S-	
PROPO	DSED TUNNEL		V///////		//////
EXISTI	NG SANITARY SEWER	LINE	48" SS	-(S)	— 48" SS —
EXISTI PROPE EFFEC EDGE EXISTI PROPO EXISTI LINE EXISTI EXISTI	NG WATER LINE NG GAS LINE ERTY LINE TIVE 100-YR FLOOD OF ASPHALT NG EASEMENT LINE SED EASEMENT LINE SED EASEMENT LINE NG OVERHEAD ELECT & POLE NG WATER METER NG FIRE HYDRANT TION OF FLOW OF 05,000,000,000,000,000,000,000,000,000,	RIC	 mley		interest
Winning Street	AREY A FARNSWORTH BOISDO	Texas Re 601 NW L	gistered Firm, No. F Loop 410 Suite 350 nio, TX 78216	-928 Tel N	lo. 210-541-9166 lo. 210-541-8699
No.		Revision		By	/ Date
Δ	ADDENDUM NO. 1			JAF	3/6/2020
	SAN ANTONIO WATER SYSTEM	HWY 9 104 SEWE	6 UPPER 0 TO SW SEWER 	MILI MAIN ANI & P TO	TARY DR TARY ROFILE
DATE:	MARCH 2020	SAWS	PROJECT NO.		SHEET NO.
DESIG	N: JKN		19-4519		NU.
DRAW	N: CRW	КНА	PROJECT NO.		C1
CHECK	(ED: JAF	0	68665052		

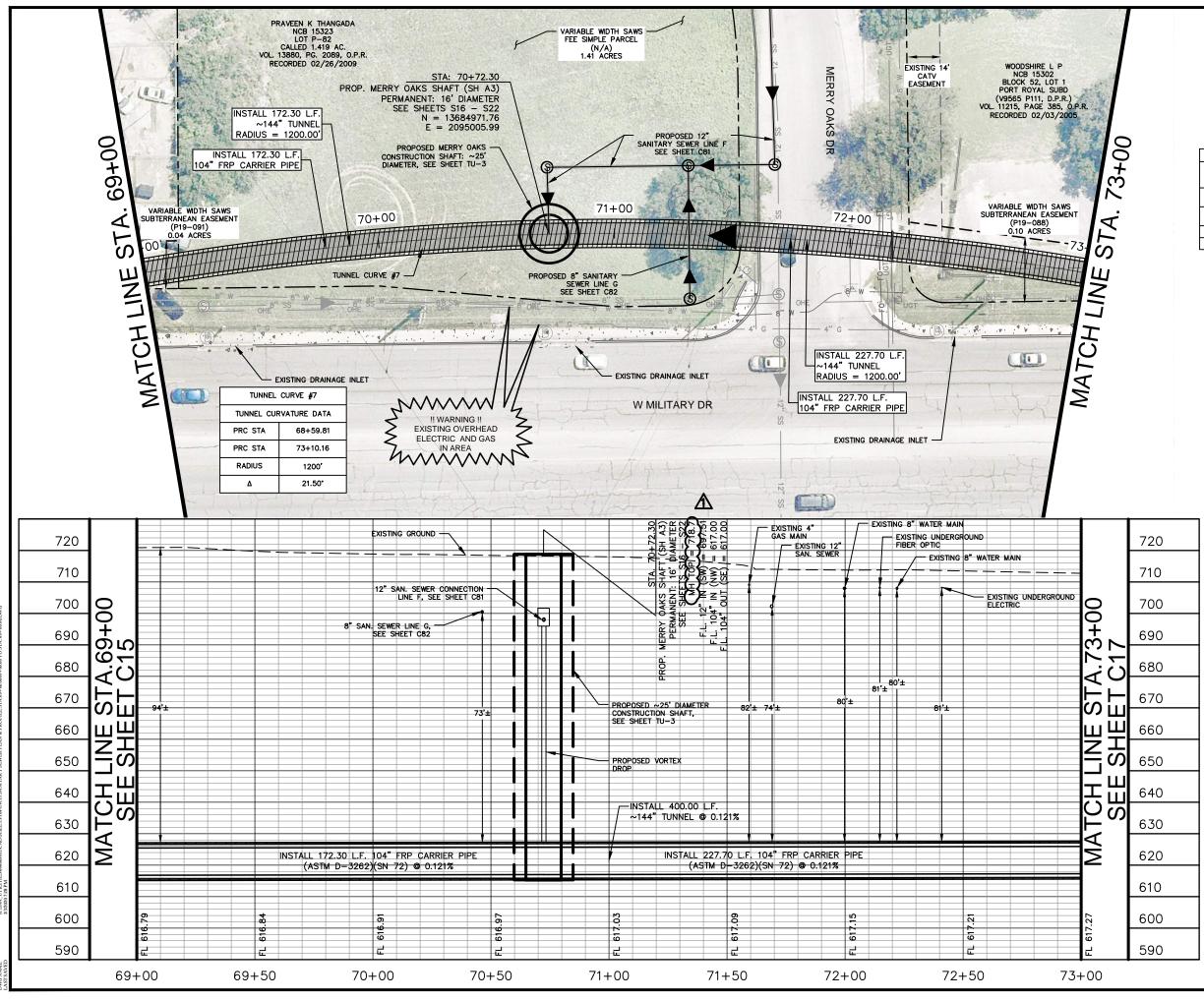




ITEM NO. DESCRIPTION UNIT QUANTITY 02410 GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER) LF 365 02430 INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER) LF 400 02431 ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER) LF 365 02430 GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT) LS 1 866 SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH) LF 400				
02410 (104-INCH AND 60-INCH FRP SANITARY SEWER) LF 365 02430 INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER) LF 400 02431 ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER) LF 365 02440 GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT) LS 1	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
U2430 (SN 72) SANITARY SEWER) LF 400 02431 ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER) LF 365 02440 GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT) LS 1	02410		LF	365
U2431 D-3262) (SN72) SANITARY SEWER) LF 365 02440 GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT) LS 1	02430		LF	400
	02431		LF	365
866 SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH) LF 400	02440	GENERAL SHAFT REQUIREMENTS (PEARSALL SHAFT)	LS	1
	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	400

- FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- 2. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-2.
- THREE-PHASE POWER WILL BE AVAILABLE FOR INSTALLATION AT SHAFT #2 PEARSALL SHAFT. THE USE OF THREE-PHASE IS AT THE SOLE DISCRETION OF THE CONTRACTOR WHO MAY ELECT TO USE ALTERNATE MEANS AND METHODS OF POWER SUPPLY.

	LEGEND	[PROFILE VIEW: 1" = 30' VERTICAL
	PROPOSED SANITARY SEW	ER LINE	<u> </u>
	PROPOSED TUNNEL		
	EXISTING SANITARY SEWER	LINE 48" SS	-(S)
720	EXISTING WATER LINE EXISTING GAS LINE		W GAS
710	PROPERTY LINE EFFECTIVE 100-YR FLOOD EDGE OF ASPHALT EXISTING EASEMENT LINE	PLAIN	
700	PROPOSED EASEMENT LINE EXISTING OVERHEAD ELECT LINE & POLE		OHE
	EXISTING WATER METER		
690	EXISTING FIRE HYDRANT		-0-
680	DIRECTION OF FLOW		
670		²⁰ Kimley X	
660	CISTER STORE	601 NW Loop 410 Suite 350 San Antonio, TX 78216	Tel No. 210-541-9166 Fax No. 210-541-8699
650	No.	Revision	By Date
640	ADDENDUM NO. 1		JAF 3/6/2020
630		W-6 UPPER HWY 90 TO SW SEWER M	MILITARY DR
620	SAN ANTONIO	104-INCH S	
610	WITER SYSTEM	SEWER PLAN of STA. 33+00	TO STA.
600		37+0	
	DATE: MARCH 2020	SAWS PROJECT NO.	SHEET NO.
590	DESIGN: JKN	19-4519	
	DRAWN: CRW	KHA PROJECT NO.	
	CHECKED: JAF	068665052	



WILSON, CONNER 352020 153 PM K:SNA, UTILITIES080860526/DSHEETS104-INCH SANITARY SEWER PLAN & PROFILE STA 49+40.0094-40.00 TO STA 8

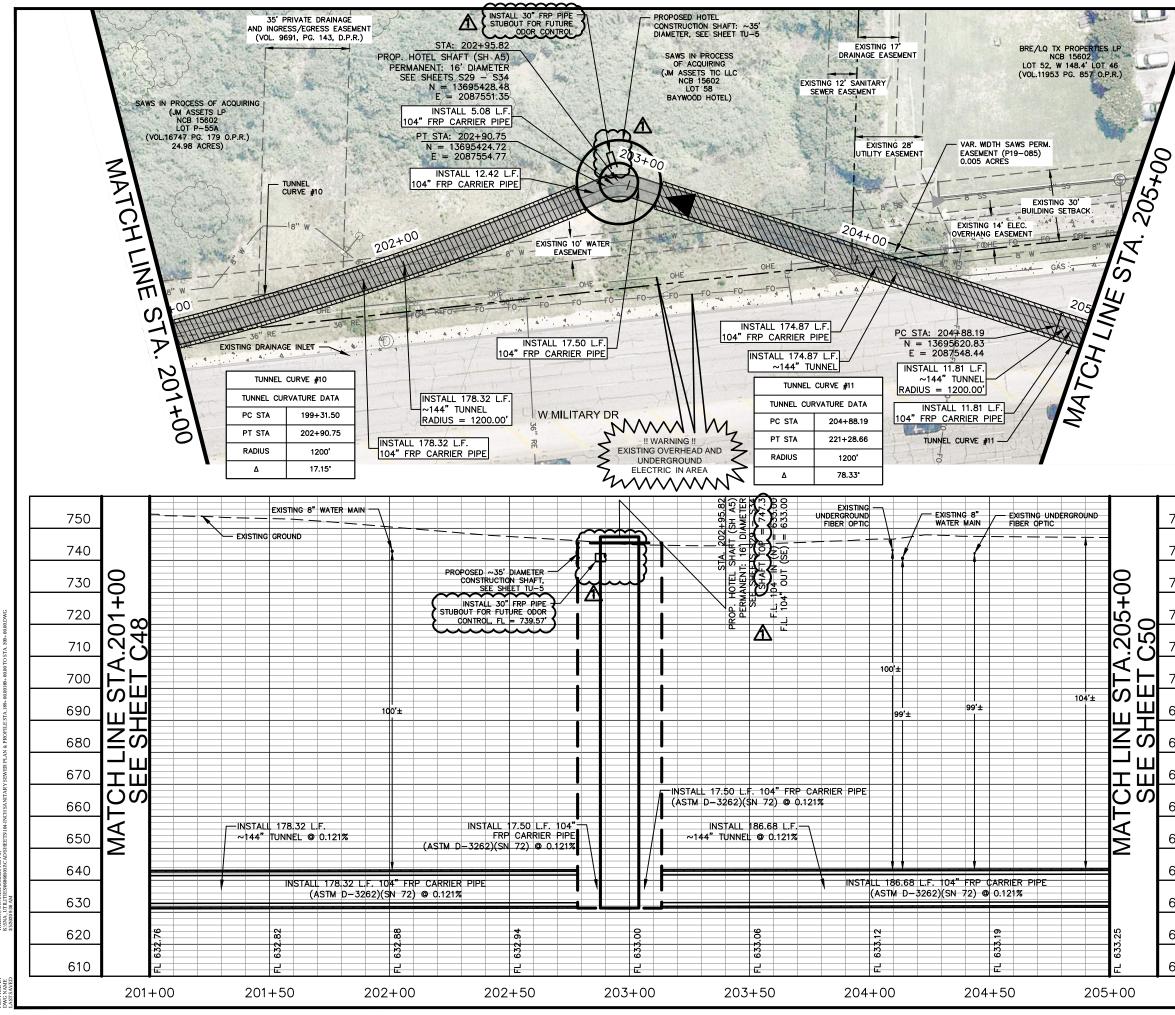
> PLOTTED BY DWG NAME



ITEM NO.	DESCRIPTION	UNIT	QUANTITY
02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	LF	400
02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	LF	400
02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	400
02440	GENERAL SHAFT REQUIREMENTS (MERRY OAKS SHAFT)	LS	1
866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	400

- 1. FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- 2. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-3.
- THREE-PHASE POWER WILL BE AVAILABLE FOR INSTALLATION AT SHAFT #3 - MERRY OAKS. THE USE OF THREE-PHASE IS AT THE SOLE DISCRETION OF THE CONTRACTOR WHO MAY ELECT TO USE ALTERNATE MEANS AND METHODS OF POWER SUPPLY.

LEGE	<u>.ND</u>			1		LE VIEW:)' VERTICAL
PROPO	DSED SANITARY SEWE	RLINE		-6)—	
PROPC	SED TUNNEL		V//////	77	777	
EXISTI	NG SANITARY SEWER	LINE	48" SS —	_(5	5)	48" SS
EXISTII PROPE EFFEC EDGE	NG WATER LINE NG GAS LINE RTY LINE TIVE 100-YR FLOOD OF ASPHALT NG EASEMENT LINE	PLAIN		— W — G/	AS —	
PROPO EXISTII LINE &	DSED EASEMENT LINE NG OVERHEAD ELECT ⋩ POLE			OH	— — IE —	
	NG WATER METER					
	NG FIRE HYDRANT TION OF FLOW)- 	
No.	ADDENDUM NO. 1	601 NW	egistered Firm, No Loop 410 Suite 35 onio, TX 78216	0	Tel No.	210-541-9166 210-541-8699 Date 3/6/2020
	SAN ANTONIO WATER SYSTEM	HWY 9 104 SEWE	6 UPPER 70 TO SW SEWER 4-INCH 1R PLAN 1. 69+00	M / M/ SAI & C T	ILITA AIN NITA PR	ARY DR ARY OFILE
			73+	00		
	MARCH 2020	SAWS	S PROJECT NO.			SHEET NO.
DESIGN			19-4519		(216
DRAW			PROJECT NO.			
CHECK	(ED: JAF		068665052			



WILSON, CONNER 3/2/2001.56 PM 2/353A - THELPTESORGARGACZ/ADSCHEETSYSTAL DAVIL SA ATTA B V SEDUCED DI AN & EDDOTETT E CYA, 100, 00/001 00 2/353A - THELPTESORGARGACZ/ADSCHEETSYSTAL DAVIL SA ATTA B V SEDUCED DI AN & EDDOTETT E CYA, 100, 00/001 00

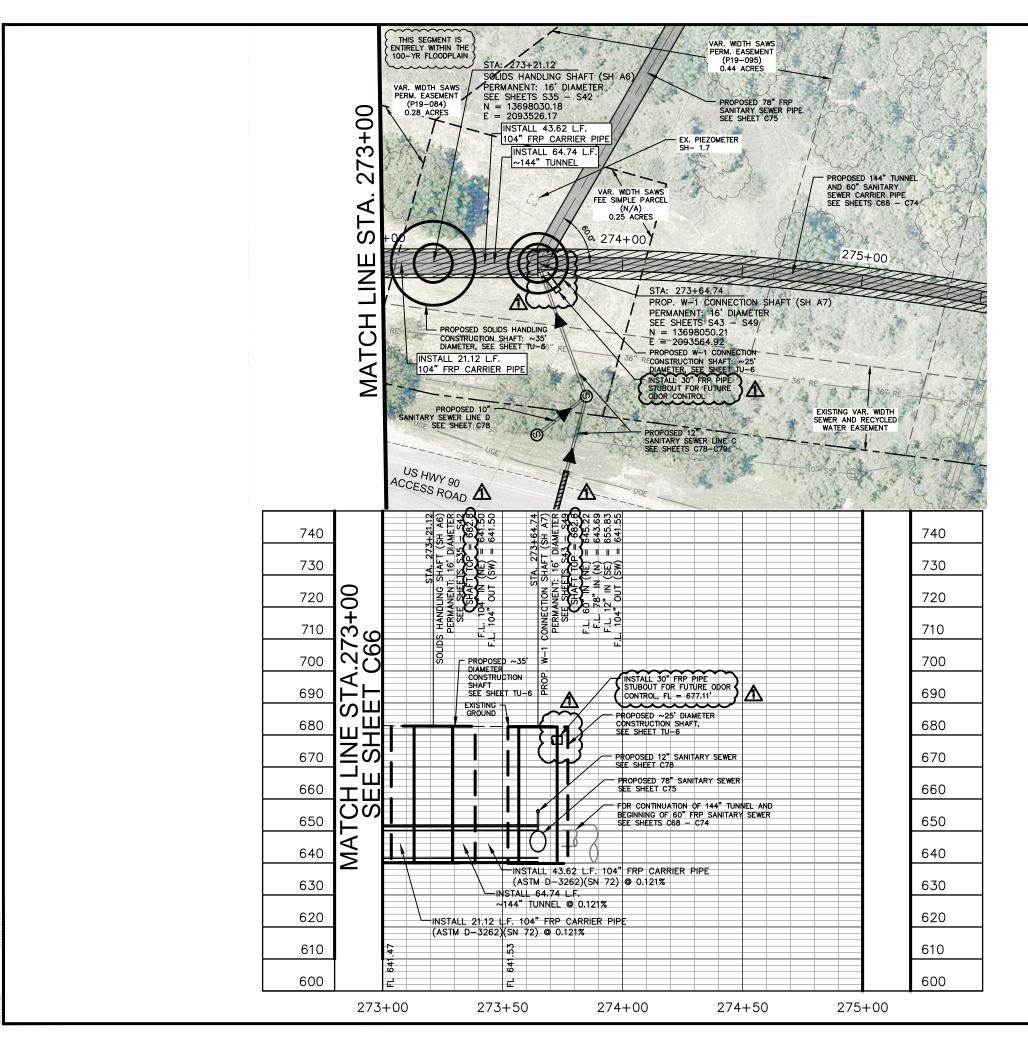
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20 40 GRAPHIC SCALE 40'

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)		365	
02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	LF	400	
02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	365	
02440	GENERAL SHAFT REQUIREMENTS (HOTEL SHAFT)	LS	1	
866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	400	

- 1. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-5.
- 2. FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- THREE-PHASE POWER WILL BE AVAILABLE FOR INSTALLATION AT SHAFT #5 - HOTEL SHAFT. THE USE OF THREE-PHASE IS AT THE SOLE DISCRETION OF THE CONTRACTOR WHO MAY ELECT TO USE ALTERNATE MEANS AND METHODS OF POWER SUPPLY.

	LEGEND		PROFILE VIEW: 1" = 30' VERTICAL
	PROPOSED SANITARY SEWE	R LINE	
750	PROPOSED TUNNEL		///////////////////////////////////////
	EXISTING SANITARY SEWER	LINE 48" SS -	SS
740	EXISTING WATER LINE EXISTING GAS LINE	$-\bowtie$	— W
730	PROPERTY LINE EFFECTIVE 100-YR FLOOD EDGE OF ASPHALT	PLAIN	
720	EXISTING EASEMENT LINE PROPOSED EASEMENT LINE EXISTING OVERHEAD ELECT LINE & POLE		- OHE
710	EXISTING WATER METER EXISTING FIRE HYDRANT		
700	DIRECTION OF FLOW		
690	OF STATES	Kimley	∕≫Horn
680	80190 CISTER ONAL	601 NW Loop 410 Suite 3 San Antonio, TX 78216	
670	No.	Revision	By Date
660	ADDENDUM NO. 1		JAF 3/6/2020
650		HWY 90 TO SI	
640		SEWER 104-INCH	
630	ANTONIO WATER SYSTEM	SEWER PLAN STA.201+0	& PROFILE 0 TO STA.
620		205	+00
	DATE: MARCH 2020	SAWS PROJECT NO.	SHEET NO.
610	DESIGN: JKN	19–4519	
	DRAWN: CRW	KHA PROJECT NO.	C49
	CHECKED: JAF	068665052	



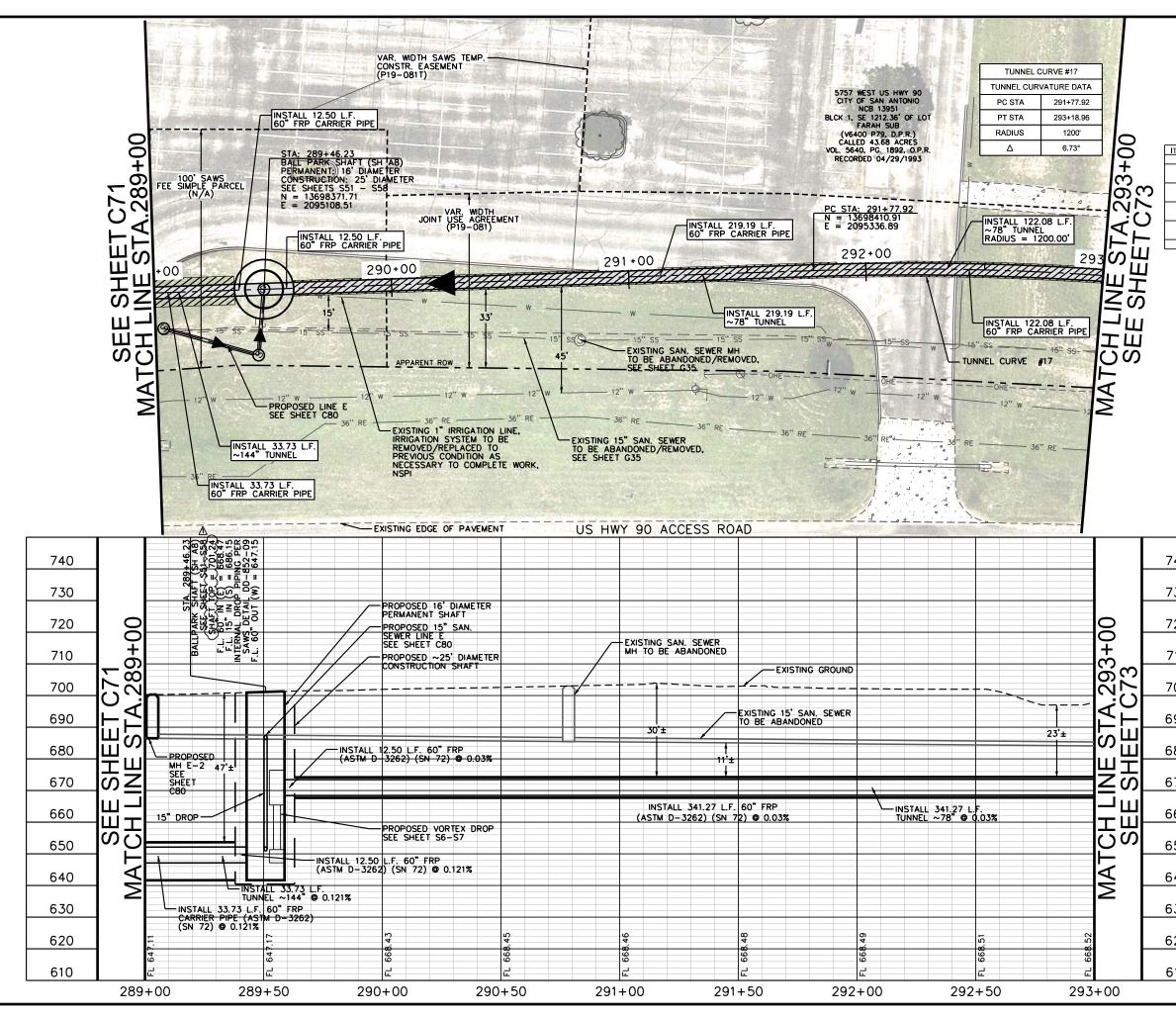
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ITEM NO.	DESCRIPTION	UNIT	QUANTITY
02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP SANITARY SEWER)	LF	64.74
02430	INSTALLATION OF PIPE IN TUNNEL (104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER)	LF	64.74
02431	ANNULAR BACKFILL FOR CARRIER PIPE (104-INCH FRP (ASTM D-3262) (SN72) SANITARY SEWER)	LF	64.74
02440	GENERAL SHAFT REQUIREMENTS (SOLIDS HANDLING SHAFT)	LS	1
02440	GENERAL SHAFT REQUIREMENTS (W-1 CONNECTION SHAFT)	LS	1
866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	64.74

- DUE TO SOIL CONDITIONS BETWEEN STA. 273+65 AND STA. 280+65, THE USE OF PRESSURIZED FACE TUNNELING METHODS, INCLUDING GASKETED PRE-CAST CONCRETE SEGMENTS OR GASKETED LINER PLATE, IS REQUIRED (NSPI). REFERENCE THE GEOTECHNICAL BASELINE REPORT.
- 2. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-6.
- 3. FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- THREE-PHASE POWER WILL NOT BE AVAILABLE TO SHAFT #6 SOLIDS HANDLING SHAFT AND SHAFT #7 - W-1 CONNECTION SHAFT. POWER SUPPLY AT THESE SHAFT LOCATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

LEGE	END			1'		LE VIEW: VERTICAL
PROP	OSED SANITARY SEWE	R LINE		-6)—	
PROP	OSED TUNNEL			77		
EXISTI	NG SANITARY SEWER	LINE	48" SS	-(S)	48" SS
EXISTI PROPE EFFEC EDGE EXISTI LINE EXISTI EXISTI	NG WATER LINE NG GAS LINE ERTY LINE TIVE 100-YR FLOOD OF ASPHALT NG EASEMENT LINE DSED EASEMENT LINE NG OVERHEAD ELECT & POLE NG WATER METER NG FIRE HYDRANT TION OF FLOW			OH	AS	
DIREC	3/6/20	20		_		1
Monthere .	HEY A LANSWORTH BOIDO SISTE	Texas Re 601 NW I	gistered Firm, No. I Loop 410 Suite 350 nio, TX 78216	F-928 -	3 Tel No.	210-541-9166 210-541-8699
No.		Revision			Вy	Date
	ADDENDUM NO. 1				JAF	3/6/2020
J.	SAN ANTONIO WATER SYSTEM	HWY 9 104- P	6 UPPER 0 TO SW SEWER -INCH SA LAN & F 273+00 273+6	M MA N PR() T	ILITA AIN . SE OFIL TO S	ARY DR EWER LE
DATE:	MARCH 2020	SAWS	PROJECT NO.			SHEET NO.
DESIG	N: JKN		19–4519			
DRAW	N: CRW	КНА	PROJECT NO.		(267
CHEC	KED: JAF	0	68665052			

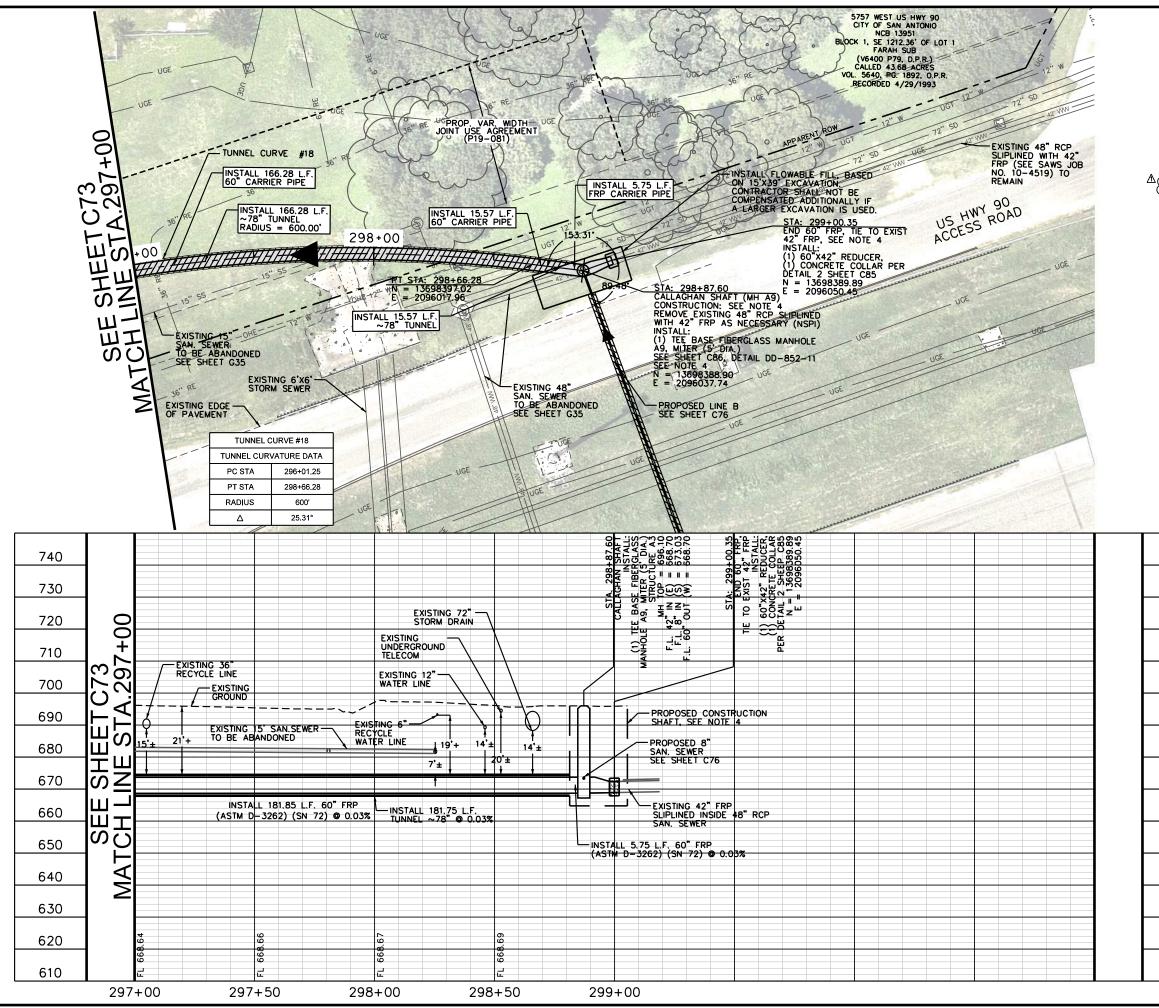




ITEM NO.	DESCRIPTION	UNIT	QUANTITY
866	SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH)	LF	400.00
02410	GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY SEWER)	LF	341.27
02410	GENERAL TUNNELING REQUIREMENTS TBM TUNNELING (104-INCH AND 60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY	LF	33.73
	INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY SEWER)	LF	400.00
	ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN72) (SANITARY SEWER)	LF	400.00
02440	GENERAL SHAFT REQUIREMENTS (BALLPARK SHAFT)	LS	1

- DUE TO SOIL CONDITIONS BETWEEN STA. 273+65 AND STA. 280+65, THE USE OF PRESSURIZED FACE TUNNELING METHODS, INCLUDING GASKETED PRE-CAST CONCRETE SEGMENTS OR GASKETED LINER PLATE, IS REQUIRED (NSPI). REFERENCE THE GEOTECHNICAL BASELINE REPORT.
- FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET TU-7.

	<u>LEGEND</u>	Γ		LE VIEW: D' VERTICAL
	PROPOSED SANITARY SEWE	R LINE	<u> </u>	
	PROPOSED TUNNEL	7777	777	777
	EXISTING SANITARY SEWER	LINE 48" SS	-S	48" 55 —
	EXISTING WATER LINE EXISTING GAS LINE		v —	
740	EXISTING FIBER OPTIC			
	PROPERTY LINE			·
730	EFFECTIVE 100-YR FLOOD EDGE OF ASPHALT	PLAIN		
720	EXISTING EASEMENT LINE PROPOSED EASEMENT LINE			
720	EXISTING OVERHEAD ELECT	- 4	OHE -	
710	LINE & POLE EXISTING WATER METER		<u>ø</u>	
/10	EXISTING FIRE HYDRANT DIRECTION OF FLOW		\mathbf{O}	
700	TE OF TEL	K · F	RIES	SE
			OCIA	
590	DALE P. MURPHY	10001 Reunion Place	DJECT ENGINI	EERING
	CENSE	Suite 404 SAN ANTONIO, Texas		
580	SONAL EN	P - 210.491.2391 F TBPE Firm #6535	- 512.338.	1784
	3/4/2020 ' Jeur IG	www.kfriese.com Revision	By	Date
570	ADDENDUM NO. 1	Revision	DM	3/4/2020
560		W-6 UPPER	SECM	FNT•
250		HWY 90 TO SW		
650		SEWER N		
540	SEAN SAN	SHEET		
540	ANTONIO WATER	60-INCH SANITA		
530	SYSTEM	PLAN & PR STA. 289+00		ТΛ
		293+00)	177,
520	DATE: FEBRUARY 2020	SAWS PROJECT NO.		SHEET NO.
	DESIGN: KFA	19-4519		NU.
510	DRAWN: KFA	KHA PROJECT NO.		272
	CHECKED: KFA	068665052	`	



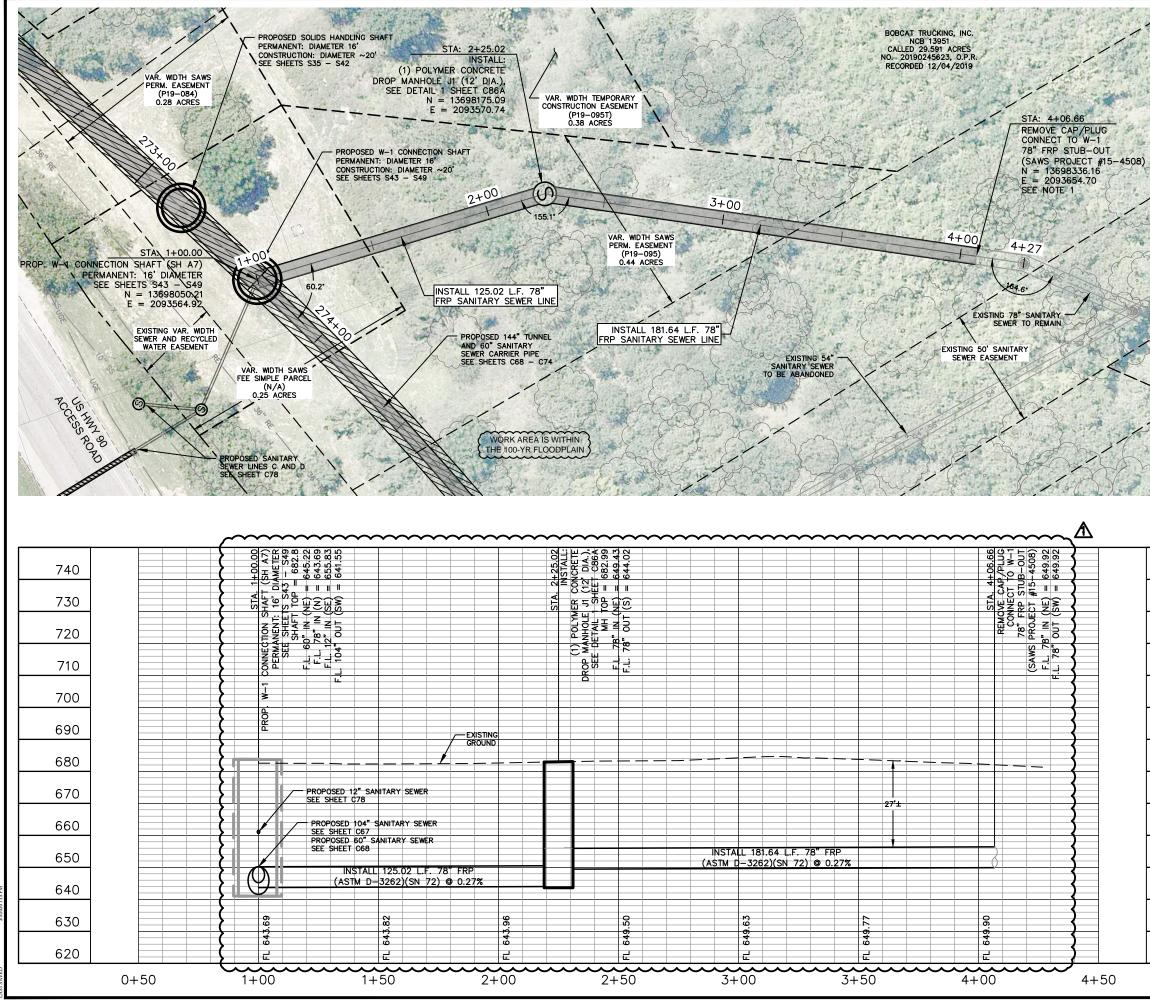
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٥.	20'	40
	GRAPHIC SCALE 40'	

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
401	FLOWABLE FILL (TxDOT SPEC)	CY	715.00	
	FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	EA	1	
	EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER)	,XE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	L
857	DEPTH)	LF	12.75	
		τr		-
866		LF	187.60	-
02410		LF	181.85	
	INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY SEWER)	LF	187.60	
	ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN72) (SANITARY SEWER)	LF	187.60	
02440	GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT)	LS	1	J
	NOTES:			
	401 853A 853A 857 858 866 02410 02430 02431	401 FLOWABLE FILL (TxDOT SPEC) 8534 FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE 853A FIBERGLASS MANHOLE, MITER (5' DIAMETER) EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' 863A DIAMETER) 60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' 857 DEPTH) 858 CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS 866 SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH) GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP 02410 (ASTM D-3262) (SN 72) (SANITARY SEWER) INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY SEWER) 02430 72) (SANITARY SEWER) ANNULAR BACKFILL FOR CARRIER PIPE (60-INCH FRP (ASTM D-3262) (SN 72) (SANITARY SEWER) 02431 D-3262) (SN72) (SANITARY SEWER) 02440 GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT)	401 FLOWABLE FILL (TXDOT SPEC) CY 401 FLOWABLE FILL (TXDOT SPEC) CY 853A FIBER-REINFORCED SANITARY SEWER MANHOLE - TEE BASE FA 853A FIBERGLASS MANHOLE, MITER (5' DIAMETER) EA EXTRA DEPTH (>6) TEE BASE FIBERGLASS MANHOLE, MITER (5' XF 60-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30' LF 857 CONCRETE ENCASEMENT, CRADLES, SADDLES, AND COLLARS CY 866 SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH) LF 02410 (ASTM D-3262) (SN 72) (SANITARY SEWER) LF 010517 INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN 12) (SANITARY SEWER) LF 02430 72) (SANITARY SEWER) LF 02431 D-3262) (SN72) (SANITARY SEWER) LF 02431 D-3262) (SN72) (SANITARY SEWER) LF 02431 D-3262) (SN72) (SANITARY SEWER) LF 02430 GENERAL SHAFT REQUIREMENTS (CALLAGHAN SHAFT) LS	401 FLOWABLE FILL (TxDOT SPEC) CY 715.00 853A FIBERRCIASS MANHOLE, MITER (5' DIAMETER) EA 1 EXTRA DEPTH (>6') TEE BASE FIBERGLASS MANHOLE, MITER (5' DIAMETER) EA 1 863A DIAMETER) CY 715.00 863A DIAMETER) EA 1 863A DIAMETER) EA 1 863A DIAMETER) CY 714.00 863A DIAMETER) CY 714.00 8657 DEPTH) CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS CY 3.10 866 SEWER MAIN TELEVISION INSPECTION (30-INCH TO 60-INCH) LF 187.60 02410 GENERAL TUNNELING REQUIREMENTS HAND MINING (60-INCH FRP LF 181.85 02410 INSTALLATION OF PIPE IN TUNNEL (60-INCH FRP (ASTM D-3262) (SN LF 187.60 02430 72) (SANITARY SEWER) LF 187.60 02431 D-3262) (SN72) (SANITARY SEWER) LF 187.60 02431 D-3262) (SN72) (SANITARY SEWER) LF 187.60 02431 D-3262) (SN72) (SANITARY SEWER) LF 187.60 024

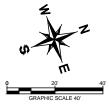
FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE. 1.

- 2. FOR GEOTECHNICAL INSTRUMENTATION AND MONITORING REQUIREMENTS, SEE SHEET $\ensuremath{\text{TU}-7a}.$
- PRIOR TO ANY TUNNEL CONSTRUCTION BETWEEN THE BALLPARK SHAFT AND CALLAGHAN SHAFT, CONTRACTOR TO EXCAVATE AND VERIFY THE PROPOSED TIE IN 3. ELEVATION FOR THE 42".
- 4. PROPOSED LAYOUT, DESIGN, SHAPE, SIZE AND CONSTRUCTION OF THE CALLAGHAN TUNNEL SHAFT AND ANY SHORING REQUIRED FOR THE PIPELINE CONNECTIONS AND MANHOLE CONSTRUCTION SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL. NOTE THE LIMITED AVAILABLE SPACE BETWEEN THE EXISTING PARALLEL 72-INCH STORM DRAIN AND EXISTING 42-INCH WASTEWATER (SLIPLINED INSIDE 48-INCH RCP). CONTRACTOR SHALL PROTECT THE 72-INCH STORM DRAIN IN PLACE DURING CONSTRUCTION, OR IF REMOVED, SHALL PROVIDE METHODS FOR MAINTAINING EQUIVALENT STORM WATER CAPACITY (NSPI).

	LEGEND	IVALENT STORM WATER CAPACIT	PROFILE VIEW:
	PROPOSED SANITARY SEWE		<u>1" = 30' VERTICAL</u>
	PROPOSED TUNNEL	V7777	
	EXISTING SANITARY SEWER	LINE 48" SS(S)
	EXISTING WATER LINE	— — M —— V	Ŵ
740	EXISTING GAS LINE	(G
	EXISTING FIBER OPTIC		
730	EFFECTIVE 100-YR FLOOD EDGE OF ASPHALT	PLAIN	
720	EXISTING EASEMENT LINE PROPOSED EASEMENT LINE EXISTING OVERHEAD ELECT	- 4	не
	LINE & POLE EXISTING WATER METER	~	0
710	EXISTING FIRE HYDRANT	-	Ŏ-
	DIRECTION OF FLOW		
700	ATE OF TETA	K · F F	RIESE
690	DALE P. MURPHY	PUBLIC PROJ 10001 Reunion Place Suite 404	OCIATES ECT ENGINEERING
680	2/4/2020 Dele M	SAN ANTONIO, Texas 7 P - 210.491.2391 F - TBPE Firm #6535 www.kfriese.com	
670	No.	Revision	By Date
	A ADDENDUM NO.		DM 3/4/2020
660		r	
650		W-6 UPPER S HWY 90 TO SW M SEWER M	AILITARY DR
640	SAN ANTONIO	SHEET	
630	WS WATER SYSTEM	60–INCH SANITA PLAN & PR STA. 297+00 299+00	OFILE TO STA.
620	DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET
	DESIGN: KFA	19-4519	NO.
610	DRAWN: KFA	KHA PROJECT NO.	
	CHECKED: KFA	068665052	- C74
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WILSON, CONNER 3/5020 204 PM KSSON, UTILITIES0046660525ADS HEETSSANIT ARY SEWER CONNECTIONS PLAT RSSON, UTILITIES0046660575ADS HEETSSANIT ARY SEWER CONNECTIONS PLAT

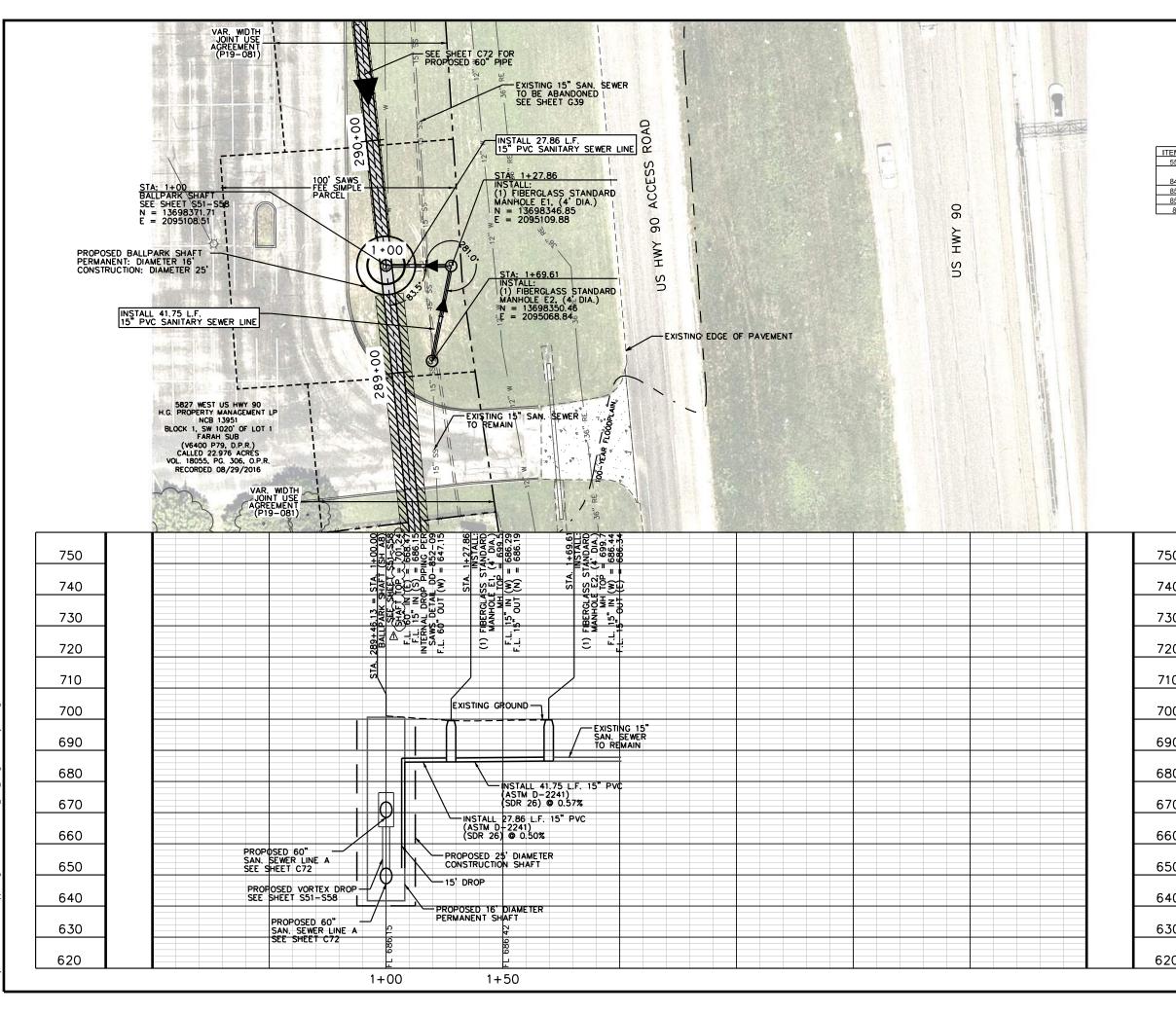


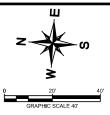
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
⚠	550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	306.66
. 8	857	78-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (30'-35' DEPTH)	LF	7 <u>.</u> 17
(857	78-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (35'-40' DEPTH)	LF	299.49
	02600	POLYMER CONCRETE SANITARY SEWER MANHOLE, DROP (12' DIAMETER) (ALL DEPTHS)	EA	1
	866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	306.66

NOTES:

- 1. PRIOR TO COMMENCING PHASE 7 (SEE CONSTRUCTION SEQUENCING SHEET G29), CONTRACTOR SHALL LOCATE W-1 SEGMENT STUBOUT AND VERIFY ELEVATION. CONTRACTOR WILL NOT BE ALLOWED TO PROCEED TO FURTHER PHASES UNTIL THIS STUBOUT ELEVATION IS VERIFIED AND PROVIDED TO SAWS AND DESIGN ENGINEER.
- FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
- THREE-PHASE POWER WILL NOT BE MADE AVAILABLE TO SHAFT #6 SOLIDS HANDLING SHAFT AND SHAFT #7 – W-1 CONNECTION SHAFT. POWER SUPPLY AT THESE SHAFT LOCATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

LEGEND		PROFILE VIEW: 1" = 30' VERTICAL
PROPOSED SANITARY SEWE	R LINE	–
PROPOSED TUNNEL	V/////	///////////////////////////////////////
EXISTING SANITARY SEWER	LINE 48" SS -	(S) 48" SS
EXISTING WATER LINE EXISTING GAS LINE PROPERTY LINE EFFECTIVE 100-YR FLOOD EDGE OF ASPHALT EXISTING EASEMENT LINE PROPOSED EASEMENT LINE EXISTING OVERHEAD ELECTI LINE & POLE		- W
EXISTING WATER METER		
EXISTING FIRE HYDRANT		-0-
DIRECTION OF FLOW	-	
BOIDO SITE	Texas Registered Firm, N 601 NW Loop 410 Suite 3 San Antonio, TX 78216	
No.	Revision	By Date
ADDENDUM NO. 1		JAF 3/6/2020
SAN ANTONIO	HWY 90 TO SI SEWER	R MAIN
W S WATER SYSTEM	78-INCH SAN PLAN & PR 1+00 1	OFILE STA.
DATE: MARCH 2020	SAWS PROJECT NO.	SHEET NO.
DESIGN: JKN	19-4519	
DRAWN: CRW	KHA PROJECT NO.	□ C75
CHECKED: JAF	068665052	

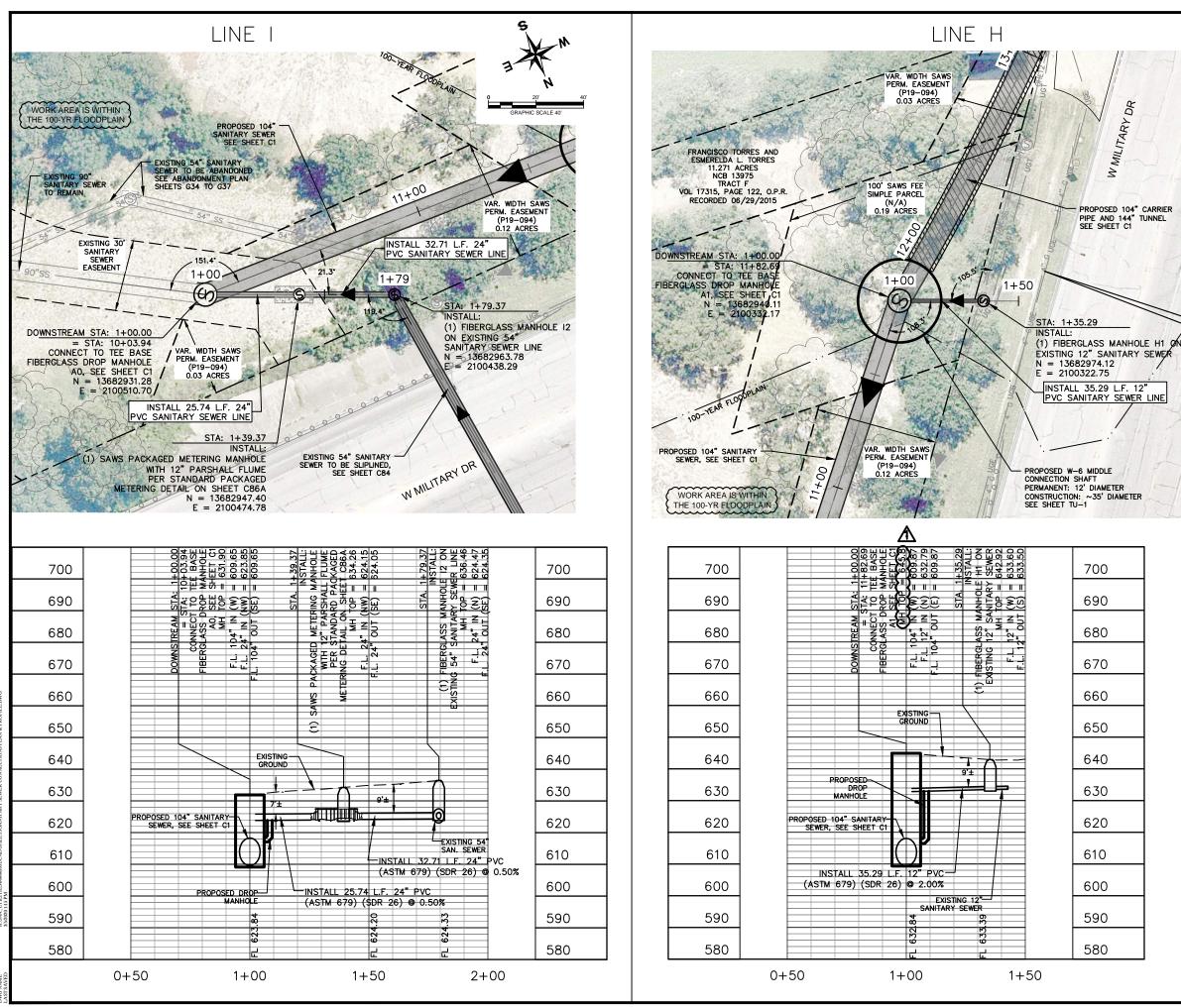




ITEM NO.	DESCRIPTION	UNIT	QUANTITY
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	69.61
	15" PVC GRAVITY SANITARY SEWER PIPE (ASTM F679, 46 PSI) (10'-14' DEPTH)	LF	69.61
853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	EA	2
853A	EXTRA DEPTH MANHOLE (>6') (4' DIAMETER)	VF	14.67
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	69.61

 FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.

	LEGEND]		LE VIEW: D' VERTICAL
	PROPOSED SANITARY SEWE	R LINE		
	PROPOSED TUNNEL	<u> </u>	1777	777
	EXISTING SANITARY SEWER	LINE 48" SS		48" \$\$
	EXISTING WATER LINE	— N ——	- w —	
750	EXISTING GAS LINE		- G —	
	EXISTING FIBER OPTIC PROPERTY LINE			
740	EFFECTIVE 100-YR FLOOD	PLAIN	· · · ·	
730	EDGE OF ASPHALT EXISTING EASEMENT LINE PROPOSED EASEMENT LINE EXISTING OVERHEAD ELECT LINE & POLE			
	LINE & POLE EXISTING WATER METER		0	
720	EXISTING FIRE HYDRANT		-Ò-	
710	DIRECTION OF FLOW	K · F	RIES	SE
700	DALE P. MURPHY		SOCIAT PROJECT ENGINE	
690	3/4/2020 Dele M	SAN ANTONIO, Texo P - 210.491.2391 I TBPE Firm #6535 www.kfriese.com	is 78216 F – 512.338.	1784
680	No. ADDENDUM NO. 1	Revision	Bу DM	Date 3/4/2020
670				
660		W-6 UPPER HWY 90 TO SW		
000		SEWER	MAIN	
650	SAN ANTONIO	SHEE		
640	WS WATER SYSTEM	15-INCH SANI PLAN & PROI STA. 1+00	FIFI	NFF
630	DATE: FEBRUARY 2020	SAWS PROJECT NO.		SHEET NO.
	DESIGN: KFA	19-4519		NU.
620	DRAWN: KFA	KHA PROJECT NO.	\neg	
	CHECKED: KFA	068665052	\neg	280
		•		





TEM NO.	DESCRIPTION	UNIT	QUANTITY
550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	97.16
848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (6'-10' DEPTH)	LF	8.28
848A	12-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14' DEPTH)	LF	27.01
848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (6'-10' DEPTH)	LF	37.89
848A	24-INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (10'-14' DEPTH)	LF	41.48
853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	EA	2
853A	EXTRA DEPTH (>6') FIBERGLASS MANHOLE, MITER (4' DIAMETER)	VF	20.7
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	114.66
11310	PACKAGE METERING MANHOLE	LS	1

1310	PACKAGE METERING MANHO	C
	II WARNING II EXISTING UNDERGROUND LECTRIC IN AREA	

- FOR CLARITY PURPOSES AND DUE TO THE DISTANCE BETWEEN EXISTING AND PROPOSED UTILITIES, EXISTING UTILITIES ARE ONLY SHOWN ON PROFILE WHERE THEY CROSS THE CENTER LINE ALIGNMENT OF THE PROPOSED PIPE.
 PRIOR TO EXCAVATION FOR THE INSTALLATION OF MANHOLE H1, THE UGT LINE IN CLOSE PROXIMITY TO THE EXCAVATION SHALL BE LOCATED AND PROTECTED.
 PROFILE VIEW:
 PROFILE VIEW:
- PROFILE VIEW: 1" = 30' VERTICAL LEGEND

PROPOSED SANITARY SEWER LINE

PROPOSED TUNNEL

EXISTING SANITARY SEWER LINE EXISTING WATER LINE EXISTING GAS LINE PROPERTY LINE EFFECTIVE 100-YR FLOOD PLAIN

EDGE OF ASPHALT EXISTING EASEMENT LINE ROPOSED EASEMENT LINE EXISTING OVERHEAD ELECTRIC LINE & POLE EXISTING WATER METER EXISTING FIRE HYDRANT

DIRECTION OF FLOW

3/6/20

★ FFREY A. FARNSWOR 80190

DRAWN: CRW

CHECKED: JAF

Kimley»Horn Texas Registered Firm, No. F-928

601 NW Loop 410 Suite 350 Tel No. 210-541-9166 an Antonio, TX 78216 Fax No. 210-541-8699

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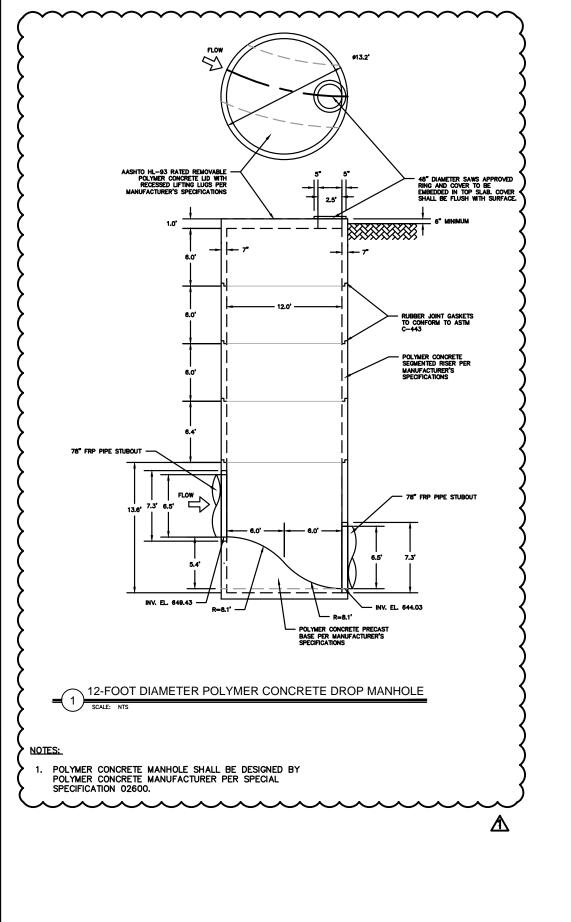
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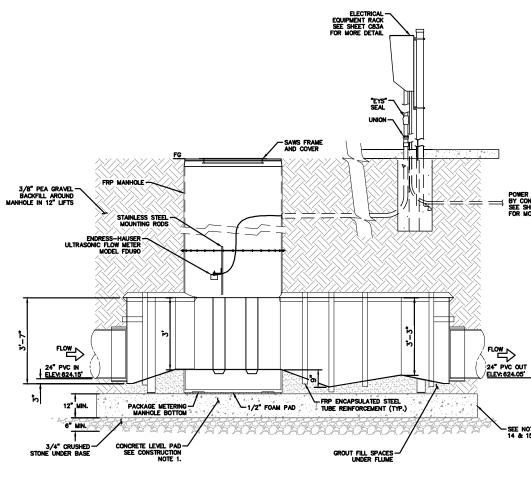
By Date No. Revision ADDENDUM NO. 1 JAF 3/6/2020 W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR SEWER MAIN SAN ANTONIC WATER SYSTEM ANTONIO SANITARY SEWER PLAN & PROFILE LINE H AND LINE DATE: MARCH 2020 SHEET NO. SAWS PROJECT NO. DESIGN: JKN 19-4519

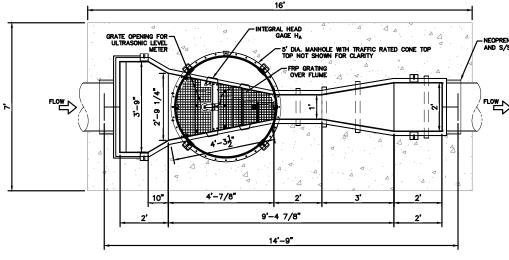
KHA PROJECT NO.

068665052

C83









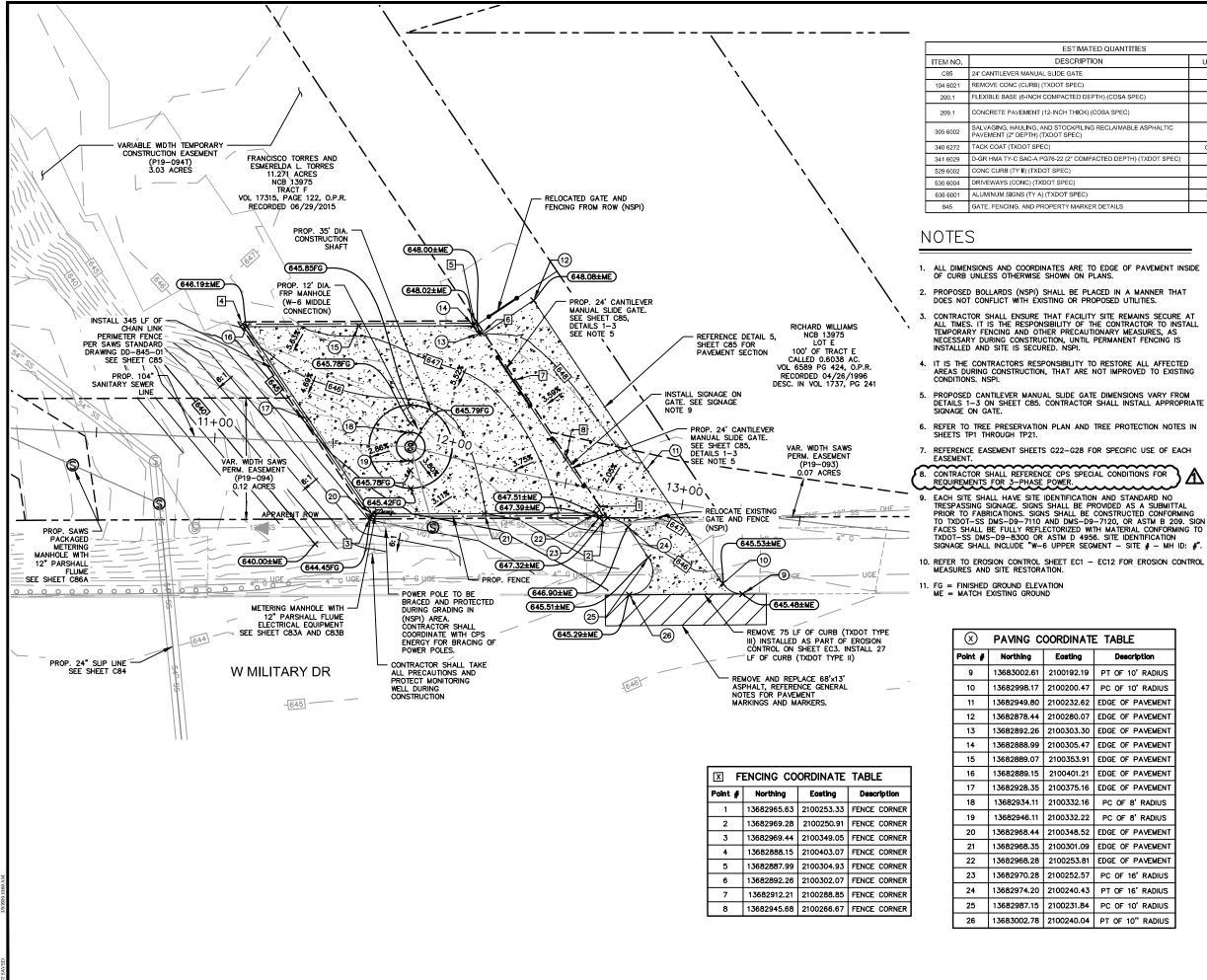
- 1. MATERIAL SHALL BE FRP (FIBERGLASS REINFORCED PLASTIC).
- 2. NEOPRENE BOOTS SHALL BE SECURED WITH STAINLESS STEEL BANDS.
- 3. MINIMUM GLASS CONTENT SHALL BE 30%, EXCLUSIVE OF RESIN RICH SURFACES.
- 4. MANHOLE BARREL THICKNESS SHALL BE A MINIMUM 1/2" FRP THICK
- 5. THE HEAD GAGE (CENTIMETERS & HUNDREDTHS OF A FOOT) IS MOLDED INTO THE SIDE OF THE FLUME.
- 6. ALL BOLTS, NUTS AND WASHERS ARE TYPE 304 STAINLESS STEEL.
- 7. STIFFENERS ACROSS TOP OF FLUME SHALL BE 1/4"X2"X2" FRP ANGLES.
- 8. POLYESTER RESIN: STYPOL C1-12-0022 POLYESTER
- 9. CATALYST: CADOX M-50a VR
- 10. CONTRACTOR SHALL ENSURE THAT CONCRETE PAD IS COMPLETELY LEVEL AND INSTALLED PER SPECIFICATION 11310.
- 11. THE PARSHALL FLUME SHALL BE PARALLEL WITH THE BOTTOM OF THE METER STATION $\pm 1/16$ ".
- 12. METER STATION SHALL BE CONNECTED TO THE SANITARY SEWER LINES WITH A FERNCO TYPE COUPLING USING STAINLESS STEEL BANDS.
- 13. METER STATION INTERIOR SHALL BE COATED WITH WHITE GEL-COAT. THE EXTERIOR SHALL HAVE AN ULTRAVIOLET PROTECTIVE COATING.
- 14. 5' INSIDE DIAMETER FIBERGLASS METERING MANHOLE AS SHOWN. MANHOLE TOP SHALL BE H-20 TRAFFIC LOADING RATED PER PACKAGED METERING MANHOLE MANUFACTURER AND SHALL INCLUDE STANDARD SJRA FRAME AND COVER. THE PACKAGE METERING MANHOLE, INTEGRATED PARSHALL FLUME, AND ASSOCIATED LEVEL CONCRETE PAD SHALL BE DESIGNED FOR ALL LOADS, INCLUDING SURCHARGE PRESSURES FROM ADJACENT STRUCTURES. SHOP DRAWINGS SHALL INCLUDE WRITTEN CONFIRMATION THAT THE PACKAGE METERING MANHOLE, INTEGRATED PARSHALL FLUME, AND ASSOCIATED LEVEL CONCRETE PAD DESIGNS ACCOUNT FOR THESE LOADS AND ARE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS.
- 15. THE PACKAGE METERING MANHOLE, INTEGRATED PARSHALL FLUME, AND ASSOCIATED LEVEL CONCRETE PAD SHALL BE DESIGNED TO RESIST A BUOYANCY FORCE ASSUMING THE WATER TABLE IS AT THE SURFACE WHILE MAINTAING A 1.5 FACTOR OF SAFETY.
- 16. METER STATION SHALL HAVE A MINIMUM OF FOUR LIFTING EYES CAST INTO THE STRUCTURE. EACH SHALL BE CAPABLE OF SUPPORTING THE WEIGHT OF THE STRUCTURE.
- 17. MINIMUM FRP WALL THICKNESS SHALL BE 1.38".
- 18. BOTTOM PLATE MINIMUM THICKNESS SHALL BE 1.38".

Kimley»Horn \mathbf{X} FREY A. FARNSWOR Texas Registered Firm, No. F-928 80190 601 NW Loop 410 Suite 350 Tel No. 210-541-9166 an Antonio, TX 78216 Fax No. 210-541-8699 No. Revision By Date ADDENDUM NO. 1 JAF 3/6/2020 W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR SEWER MAIN SAN ANTONIO SEWER GENERAL DETAILS WATER SYSTEM (SHEET 2 OF 3) SHEET NO. DATE: MARCH 2020 SAWS PROJECT NO. DESIGN: JKN 19-4519 DRAWN: CRW C86A KHA PROJECT NO. CHECKED: JAF 068665052

POWER PROVIDED BY CONTRACTOR. SEE SHEET C83A FOR MORE DETAIL

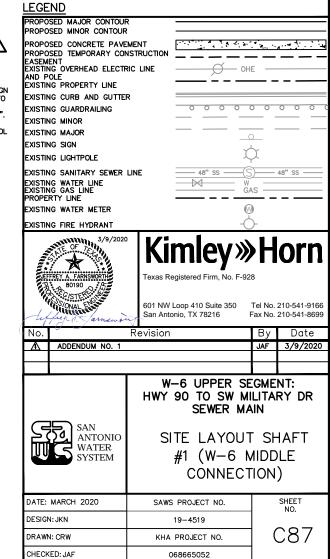
SEE NOTES

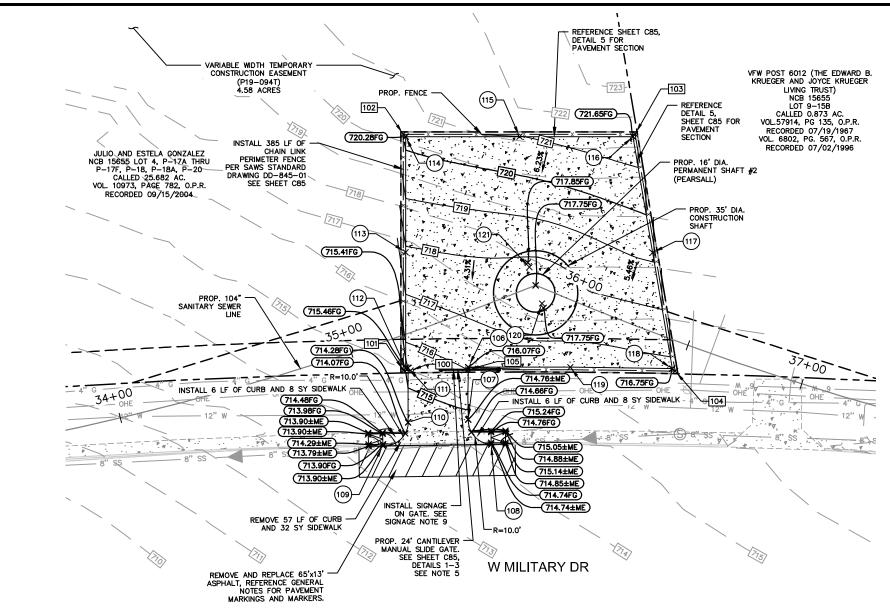
- NEOPRENE BOOTS AND S/S BANDS



NTITIES					
	UNIT	QUANTITY			
	EA	2			
	LF	75			
SA SPEC)	SY	1150			
EC)	SY	1150			
MABLE ASPHALTIC	SY	100			
	GAL	10			
EPTH) (TXDOT SPEC)	TN	11			
	LF	27			
	SY	97			
	EA	4			
s	LF	345			







PAVING COORDINATE TABLE \otimes Point # Northina Eastina Description 106 13683123.45 2097984.37 EDGE OF PAVEMENT 107 13683144.05 2097991.51 PC OF 5' RADIUS 13683157.01 2097985.92 108 PT OF 5' RADIUS 109 13683142.76 2098028.67 PT OF 5' RADIUS 110 13683136.99 2098015.60 PC OF 5' RADIUS 111 13683115.55 2098008.19 EDGE OF PAVEMEN 13683115.24 2098009.13 EDGE OF PAVEMEN 112 13683069.71 2097993.32 EDGE OF PAVEMENT 113 13683024.19 2097977.53 EDGE OF PAVEMEN 114 13683039.73 2097932.72 EDGE OF PAVEMEN 115 116 13683055.23 2097888.06 EDGE OF PAVEMENT 117 13683103.57 2097896.17 EDGE OF PAVEMENT 118 13683151.91 2097904.29 EDGE OF PAVEMEN 13683137.42 2097944.20 EDGE OF PAVEMEN 119 13683108.47 2097946.67 PC OF 8' RADIUS 120

121 13683092.47 2097946.67 PC OF 8' RADIUS

FENCING COORDINATE TABLE					
Point # Northing Easting Description					
100	13683116.88	2098007.49	FENCE CORNER		
101	13683115.88	2098010.41	FENCE CORNER		
102	13683022.91	2097978.15	FENCE CORNER		
103	13683054.57	2097886.93	FENCE CORNER		
104	13683153.27	2097903.50	FENCE CORNER		
105	13683124.44	2097984.72	FENCE CORNER		

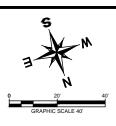
- 1. ALL DIMENSIONS AND COORDINATES ARE TO EDGE OF PAVEMENT INSIDE OF CURB UNLESS OTHERWISE SHOWN ON PLANS.
- 2. PROPOSED BOLLARDS (NSPI) SHALL BE PLACED IN A MANNER THAT DOES NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.
- 3. CONTRACTOR SHALL ENSURE THAT FACILITY SITE REMAINS SECURE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL TEMPORARY FENCING AND OTHER PRECAUTIONARY MEASURES, AS NECESSARY DURING CONSTRUCTION, UNTIL PERMANENT FENCING IS INSTALLED AND SITE IS SECURED. NSPI.
- 4. IT IS THE CONTRACTORS RESPONSIBILITY TO RESTORE ALL AFFECTED AREAS DURING CONSTRUCTION, THAT ARE NOT IMPROVED TO EXISTING CONDITIONS. NSPI.
- PROPOSED CANTILEVER MANUAL SLIDE GATE DIMENSIONS VARY FROM DETAILS 1-3 ON SHEET CB5. CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE ON GATE.
- REFER TO TREE PRESERVATION PLAN AND TREE PROTECTION NOTES IN SHEETS TP1 THROUGH TP19.
- 7. REFERENCE EASEMENT SHEETS G22-G28 FOR SPECIFIC USE OF EACH EASEMENT.
- 8. CONTRACTOR SHALL REFERENCE CPS SPECIAL CONDITIONS FOR REQUIREMENTS FOR 3-PHASE POWER.
- 9. EACH SITE SHALL HAVE SITE IDENTIFICATION AND STANDARD NO TRESPASSING SIGNAGE. SIGNS SHALL BE PROVIDED AS A SUBMITTAL PRIOR TO FABRICATIONS. SIGNS SHALL BE CONSTRUCTED CONFORMING TO TXDOT-SS DMS-D9-7110 AND DMS-D9-7120, OR ASTM B 209. SIGN FACES SHALL BE FULLY REFLECTORIZED WITH MATERIAL CONFORMING TO TXDOT-SS DMS-D9-B300 OR ASTM D 4956. SITE IDENTIFICATION SIGNAGE SHALL INCLUDE "W-6 UPPER SEGMENT - SITE # - MH ID: #".
- 10. REFER TO EROSION CONTROL SHEET EC1 EC12 FOR EROSION CONTROL MEASURES AND SITE RESTORATION.
- 11. FG = FINISHED GROUND ELEVATION ME = MATCH EXISTING GROUND

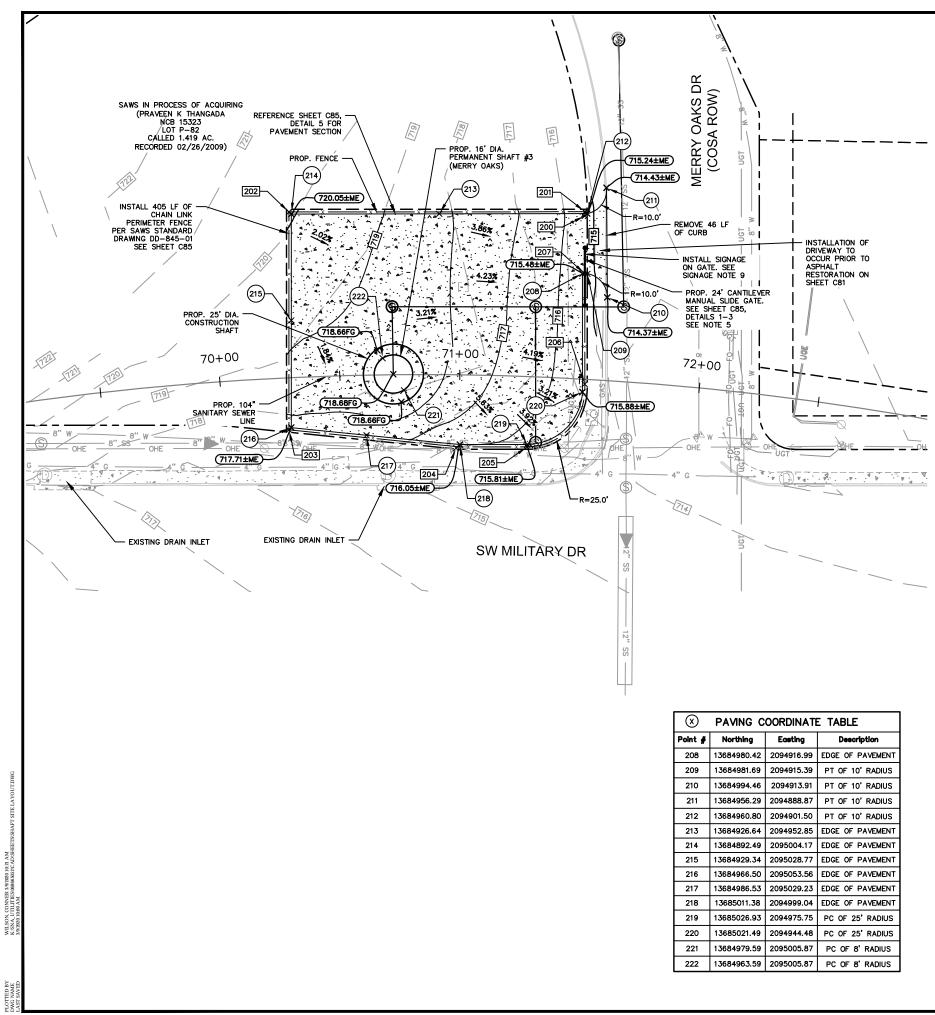
	ESTIMATED QUANTITIES	
ITEM NO.	DESCRIPTION	UNI
C85	24' CANTILEVER MANUAL SLIDE GATE	EA
104 6015	REMOVE CONC (SIDEWALKS) (TXDOT SPEC)	SY
104 6021	REMOVE CONC (CURB) (TXDOT SPEC)	LF
200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	SY
209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	SY
305 6002	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (TXDOT SPEC)	SY
340 6272	TACK COAT (TXDOT SPEC)	GAI
341 6029	D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	TN
529 6002	CONC CURB (TY II) (TXDOT SPEC)	LF
530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	SY
531 6002	CONC SIDEWALKS (5-INCH) (TXDOT SPEC)	SY
636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	EA
845	GATE, FENCING, AND PROPERTY MARKER DETAILS	LF

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<u>LEGEND</u>					
PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR	-				
PROPOSED MINOR CONTOUR PROPOSED CONCRETE PAVEMEN PROPOSED TEMPORARY CONSTR EASEMENT EXISTING OVERHEAD ELECTRIC I AND POLE EXISTING PROPERTY LINE			— он	E	
EXISTING FROPERTY LINE	-				
EXISTING GUARDRAILING	-	0 0 0	0 0	0	0 0 0
EXISTING MINOR					
EXISTING MAJOR					
EXISTING SIGN			~	Y	
EXISTING LIGHTPOLE			4	7	
EXISTING SANITARY SEWER LINE EXISTING WATER LINE EXISTING GAS LINE PROPERTY LINE		48" SS			48" SS
EXISTING WATER METER			W -)	
EXISTING FIRE HYDRANT			-(ナ	
JEFFREY A. FARNSWORTH	Texas Reg	jistered Firm,			orn
No. Re	601 NW L		No. F-92	8 Tel No.	210-541-9166 210-541-8699 Date
No. Re Addendum no. 1	601 NW Le San Anton	jistered Firm, pop 410 Suite	No. F-92	8 Tel No. Fax No.	210-541-9166 210-541-8699
	601 NW Le San Anton	jistered Firm, pop 410 Suite	No. F-92	8 Tel No. Fax No. By	210-541-9166 210-541-8699 Date
	601 NW Lu San Anton evision	oop 410 Suite io, TX 78216 -6 UPPE -6 UPPE -6 SEWE SITE	R SE W MI R MA	B Tel No. Fax No. JAF GME LITA	210-541-9166 210-541-8699 3/9/2020 NT: RY DR
ADDENDUM NO. 1	601 NW L San Anton evision	6 UPPE 6 UPPE 90 TO S SEWE SITE SH /	R SE W MI R MA LAY SALI	B Tel No. Fax No. JAF GME LITA	210-541-9166 210-541-8699 3/9/2020 NT: RY DR
ADDENDUM NO. 1	601 NW L San Anton evision W- HWY S	6 UPPE 50 TO S 50 TO S 50 TO S 50 TO S 51 TE 51 TE 51 A 51 A 51 A 51 A 51 A 51 A 51 A 51 A	R SE W MI R MA LAY SALI	B Tel No. By JAF GME LITAI IN GUU #2 _ RI	210-541-9166 210-541-8699 Date 3/9/2020 NT: RY DR
ADDENDUM NO. 1	601 NW L San Anton evision HWY S	6 UPPE 6 UPPE 90 TO S SEWE SITE SHA (PEAR	No. F-92 350 F SW MI R MA LAY AFT SALI	B Tel No. By JAF GME LITAI IN GUU #2 _ RI	210-541-9166 210-541-869 3/9/2020 NT: RY DR







ESTIMATED QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
C85	24' CANTILEVER MANUAL SLIDE GATE	EA	1	
104 6021	REMOVE CONC (CURB) (TXDOT SPEC)	LF	46	
200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	SY	1260	
209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	SY	1260	
530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	SY	33	
636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	EA	2	
845	GATE, FENCING, AND PROPERTY MARKER DETAILS	LF	405	

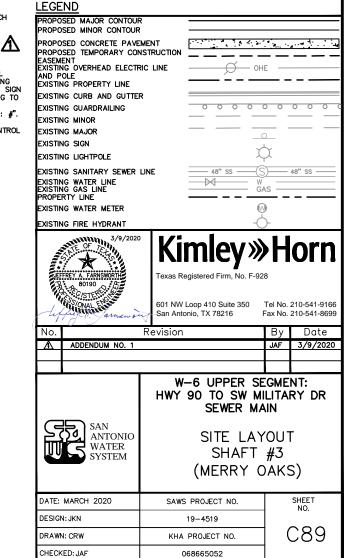
- 1. ALL DIMENSIONS AND COORDINATES ARE TO EDGE OF PAVEMENT INSIDE OF CURB UNLESS OTHERWISE SHOWN ON PLANS.
- 2. PROPOSED BOLLARDS (NSPI) SHALL BE PLACED IN A MANNER THAT DOES NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.
- 3. CONTRACTOR SHALL ENSURE THAT FACILITY SITE REMAINS SECURE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL TEMPORARY FENCING AND OTHER PRECAUTIONARY MEASURES, AS NECESSARY DURING CONSTRUCTION, UNTIL PERMANENT FENCING IS INSTALLED AND SITE IS SECURED. NSPI.
- 4. IT IS THE CONTRACTORS RESPONSIBILITY TO RESTORE ALL AFFECTED AREAS DURING CONSTRUCTION, THAT ARE NOT IMPROVED TO EXISTING CONDITIONS. NSPI.
- PROPOSED CANTILEVER MANUAL SLIDE GATE DIMENSIONS VARY FROM DETAILS 1-3 ON SHEET C85. CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE ON GATE.
- REFER TO TREE PRESERVATION PLAN AND TREE PROTECTION NOTES IN SHEETS TP1 THROUGH TP19. 6.

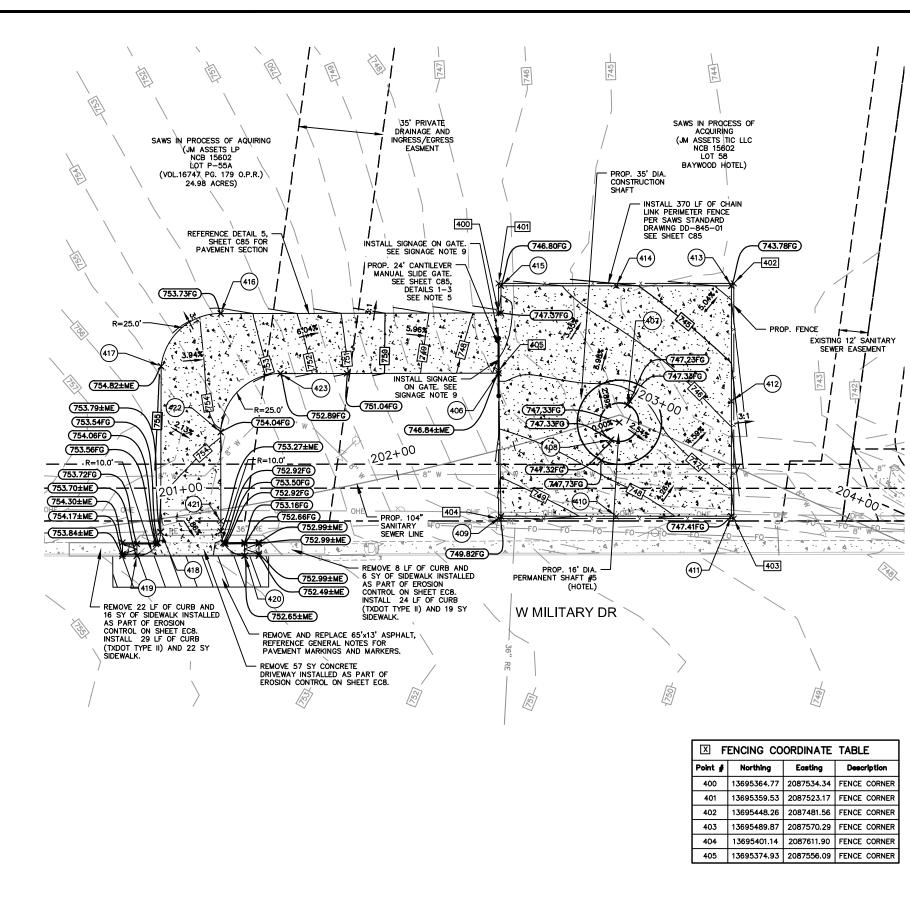
REFERENCE EASEMENT SHEETS G22-G28 FOR SPECIFIC USE OF EACH EASEMENT.

- CONTRACTOR SHALL REFERENCE CPS SPECIAL CONDITIONS FOR REQUIREMENTS FOR 3-PHASE POWER.
- 9. EACH SITE SHALL HAVE SITE IDENTIFICATION AND STANDARD NO TRESPASSING SIGNAGE. SIGNS SHALL BE PROVIDED AS A SUBMITTAL PRIOR TO FABRICATIONS. SIGNS SHALL BE CONSTRUCTED CONFORMING TO TXDOT-SS DMS-D9-7110 AND DMS-D9-7120, OR ASTM B 209. SIGN FACES SHALL BE FULLY REFLECTORIZED WITH MATERIAL CONFORMING TO TXDOT-SS DMS-D9-8300 OR ASTM D 4956. SITE IDENTIFICATION SIGNAGE SHALL INCLUDE "W-6 UPPER SEGMENT - SITE # - MH ID: #".
- 10. REFER TO EROSION CONTROL SHEET EC1 EC12 FOR EROSION CONTROL MEASURES AND SITE RESTORATION.
- 11. FG = FINISHED GROUND ELEVATION ME = MATCH EXISTING GROUND

FENCING COORDINATE TABLE					
Point #	Northing	Easting	Description		
200	13684961.04	2094902.90	FENCE CORNER		
201	13684959.59	2094901.91	FENCE CORNER		
202	13684891.23	2095004.56	FENCE CORNER		
203	13684966.69	2095054.89	FENCE CORNER		
204	13685011.68	2095001.13	FENCE CORNER		
205	13685027.76	2094976.31	FENCE CORNER		
206	13685019.31	2094941.79	FENCE CORNER		
207	13684981.02	2094916.19	FENCE CORNER		



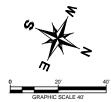




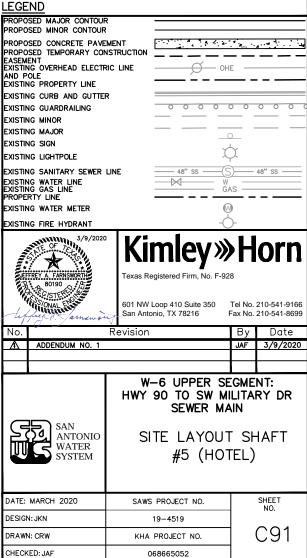
	ESTIMATED QUANTITIES		
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
C85	24' CANTILEVER MANUAL SLIDE GATE	EA	1
104 6015	REMOVE CONC (SIDEWALKS) (TXDOT SPEC)	SY	22
104 6017	REMOVE CONC (DRIVEWAYS) (TXDOT SPEC)	SY	57
104 6021	REMOVE CONC (CURB) (TXDOT SPEC)	LF	30
200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	SY	1010
209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	SY	1010
305 6002	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (TXDOT SPEC)	SY	95
340 6272	TACK COAT (TXDOT SPEC)	GAL	10
341 6029	D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	TN	10.5
529 6002	CONC CURB (TY II) (TXDOT SPEC)	LF	53
530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	SY	609
531 6002	CONC SIDEWALKS (5-INCH) (TXDOT SPEC)	SY	41
636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	EA	2
845	GATE, FENCING, AND PROPERTY MARKER DETAILS	LF	370

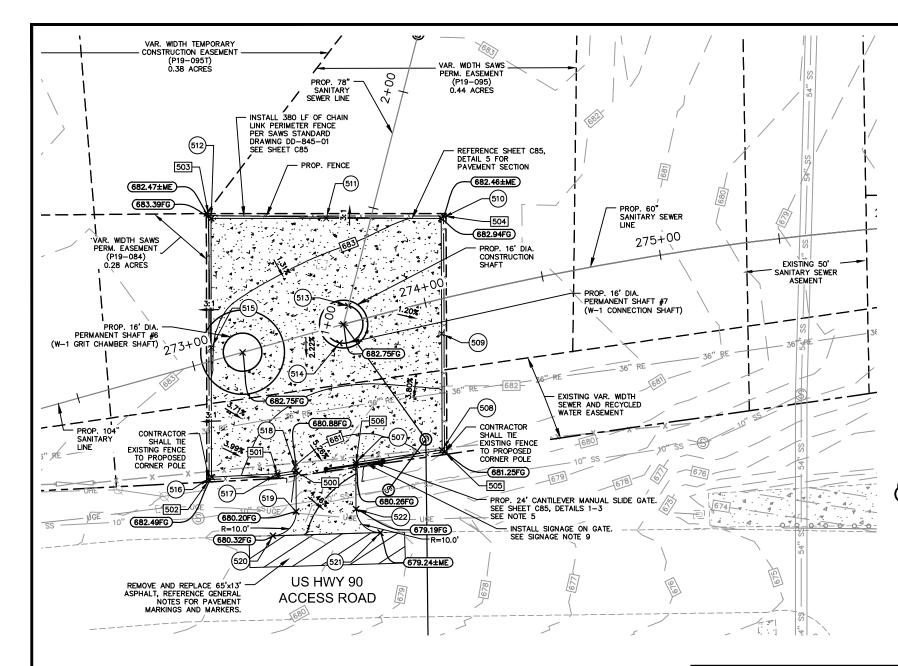
- 1. ALL DIMENSIONS AND COORDINATES ARE TO EDGE OF PAVEMENT INSIDE OF CURB UNLESS OTHERWISE SHOWN ON PLANS.
- 2. PROPOSED BOLLARDS (NSPI) SHALL BE PLACED IN A MANNER THAT DOES NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.
- 3. CONTRACTOR SHALL ENSURE THAT FACILITY SITE REMAINS SECURE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL TEMPORARY FENCING AND OTHER PRECAUTIONARY MEASURES, AS NECESSARY DURING CONSTRUCTION, UNTIL PERMANENT FENCING IS INSTALLED AND SITE IS SECURED. NSPI.
- 4. IT IS THE CONTRACTORS RESPONSIBILITY TO RESTORE ALL AFFECTED AREAS DURING CONSTRUCTION, THAT ARE NOT IMPROVED TO EXISTING CONDITIONS. NSPI.
- PROPOSED CANTILEVER MANUAL SLIDE GATE DIMENSIONS VARY FROM DETAILS 1-3 ON SHEET C85. CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE ON GATE. 5
- . REFER TO TREE PRESERVATION PLAN AND TREE PROTECTION NOTES IN SHEETS TP1 THROUGH TP19.
- REFERENCE EASEMENT SHEETS G22-G28 FOR SPECIFIC USE OF EACH EASEMENT.
- CONTRACTOR SHALL REFERENCE CPS SPECIAL CONDITIONS FOR REQUIREMENTS FOR 3-PHASE POWER.
- EACH SITE SHALL HAVE SITE IDENTIFICATION AND STANDARD NO 9 TRESPASSING SIGNACE. SIGNS SHALL BE PROVIDED AS A SUBMITTAL PRIOR TO FABRICATIONS. SIGNS SHALL BE CONSTRUCTED CONFORMING TO TXDOT-SS DMS-D9-7110 AND DMS-D9-7120, OR ASTM B 209. SIGN FACES SHALL BE FULLY REFLECTORIZED WITH MATERIAL CONFORMING TO TXDOT-SS DMS-D9-8300 OR ASTM D 4956. SITE IDENTIFICATION SIGNAGE SHALL INCLUDE "W-6 UPPER SEGMENT - SITE # - MH ID: #".
- 10. REFER TO EROSION CONTROL SHEET EC1 EC12 FOR EROSION CONTROL MEASURES AND SITE RESTORATION.
- 11. FG = FINISHED GROUND ELEVATION ME = MATCH EXISTING GROUND

S PAVING COORDINATE TABLE			
Point #	Northing	Easting	Description
406	13695375.40	2087557.02	EDGE OF PAVEMENT
407	13695429.62	2087546.25	PC OF 8' RADIUS
408	13695429.62	2087562.25	PC OF 8' RADIUS
409	13695401.62	2087610.57	EDGE OF PAVEMENT
410	13695445.08	2087590.19	EDGE OF PAVEMENT
411	13695488.54	2087569.81	EDGE OF PAVEMENT
412	13695468.16	2087526.37	EDGE OF PAVEMENT
413	13695447.78	2087482.89	EDGE OF PAVEMENT
414	13695404.34	2087503.26	EDGE OF PAVEMENT
415	13695360.86	2087523.65	EDGE OF PAVEMENT
416	13695260.03	2087583.70	PT OF 25' RADIUS
4 17	13695246.88	2087614.12	PC OF 25' RADIUS
418	13695276.02	2087676.71	PC OF 10' RADIUS
419	13695271.28	2087689.97	PT OF 10' RADIUS
420	13695312.07	2087670.74	PT OF 10' RADIUS
421	13695296.79	2087661.94	PC OF 10' RADIUS
422	13695280.99	2087628.39	PC OF 25' RADIUS
423	13695293.18	2087595.77	PT OF 25' RADIUS









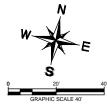
	ESTIMATED QUANTITIES		
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
C85	24' CANTILEVER MANUAL SLIDE GATE	EA	1
200.1	FLEXIBLE BASE (6-INCH COMPACTED DEPTH) (COSA SPEC)	SY	1060
209.1	CONCRETE PAVEMENT (12-INCH THICK) (COSA SPEC)	SY	1060
305 6002	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2* DEPTH) (TXDOT SPEC)	SY	95
340 6272	TACK COAT (TXDOT SPEC)	GAL	10
341 6029	D-GR HMA TY-C SAC-A PG76-22 (2" COMPACTED DEPTH) (TXDOT SPEC)	TN	10.5
530 6004	DRIVEWAYS (CONC) (TXDOT SPEC)	SY	85
636 6001	ALUMINUM SIGNS (TY A) (TXDOT SPEC)	EA	2
845	GATE, FENCING, AND PROPERTY MARKER DETAILS	LF	380

NOTES

- 1. ALL DIMENSIONS AND COORDINATES ARE TO EDGE OF PAVEMENT INSIDE OF CURB UNLESS OTHERWISE SHOWN ON PLANS.
- 2. PROPOSED BOLLARDS (NSPI) SHALL BE PLACED IN A MANNER THAT DOES NOT CONFLICT WITH EXISTING OR PROPOSED UTILITIES.
- 3. CONTRACTOR SHALL ENSURE THAT FACILITY SITE REMAINS SECURE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL TEMPORARY FENCING AND OTHER PRECAUTIONARY MEASURES, AS NECESSARY DURING CONSTRUCTION, UNTIL PERMANENT FENCING IS INSTALLED AND SITE IS SECURED. NSPI.
- IT IS THE CONTRACTORS RESPONSIBILITY TO RESTORE ALL AFFECTED AREAS DURING CONSTRUCTION, THAT ARE NOT IMPROVED TO EXISTING CONDITIONS. NSPI.
- 5. PROPOSED CANTILEVER MANUAL SLIDE GATE DIMENSIONS VARY FROM DETAILS 1-3 ON SHEET C85. CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE ON GATE.
- 6. REFER TO TREE PRESERVATION PLAN AND TREE PROTECTION NOTES IN SHEETS TP1 THROUGH TP19.
- 7. REFERENCE EASEMENT SHEETS G22-G28 FOR SPECIFIC USE OF EACH EASEMENT. 8. CONTRACTOR SHALL REFERENCE CPS SPECIAL CONDITIONS FOR REQUIREMENTS FOR 3-PHASE POWER.
- 9. EACH SITE SHALL HAVE SITE IDENTIFICATION AND STANDARD NO TRESPASSING SIGNAGE. SIGNS SHALL BE PROVIDED AS A SUBMITTAL PRIOR TO FABRICATIONS. SIGNS SHALL BE CONSTRUCTED CONFORMING TO TXDOT-SS DMS-D9-7110 AND DMS-D9-7120, OR ASTM B 209. SIGN FACES SHALL BE FULLY REFLECTORIZED WITH MATERIAL CONFORMING TO TXDOT-SD MS-D9-8300 OR ASTM D 4956. SITE IDENTIFICATION SIGNAGE SHALL INCLUDE "W-6 UPPER SEGMENT SITE # MH ID: #".
- 10. REFER TO EROSION CONTROL SHEET EC1 EC12 FOR EROSION CONTROL MEASURES AND SITE RESTORATION.
- 11. FG = FINISHED GROUND ELEVATION ME = MATCH EXISTING GROUND

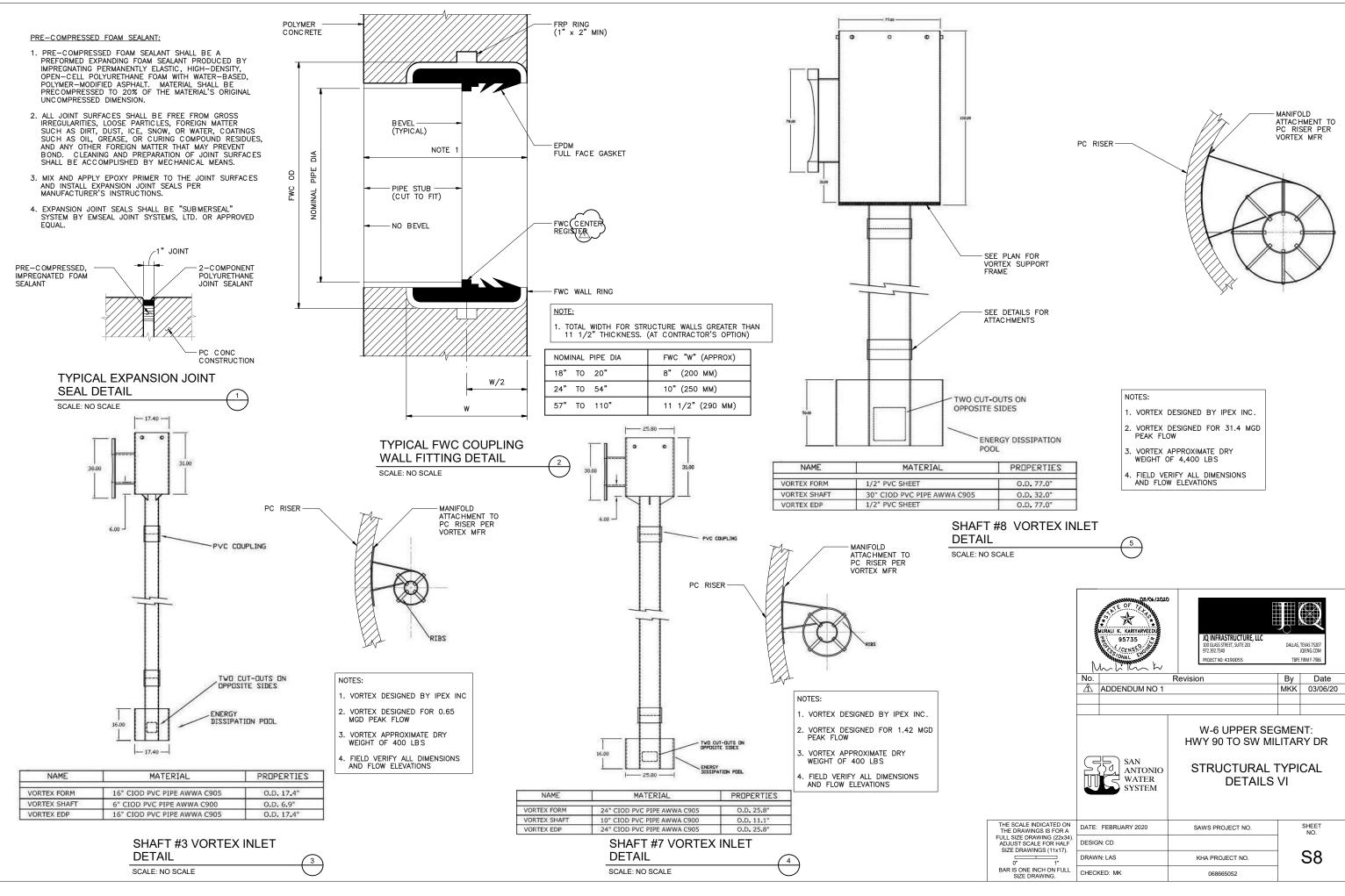
FENCING COORDINATE TABLE							
Point # Northing Easting Description							
500	13697985.72	2093559.37	FENCE CORNER				
501	13697982.70	2093551.05	FENCE CORNER				
502	13697975.44	2093523.38	FENCE CORNER				
503	13698082.95	2093500.76	FENCE CORNER				
504	13698102.92	2093596.58	FENCE CORNER				
505	13698006.64	2093617.00	FENCE CORNER				
506	13697993.91	2093581.93	FENCE CORNER				

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Point # Northing Easting Description									
507	13697994.90	2093581.72	EDGE OF PAVEMENT						
508	13698007.28	2093615.84	EDGE OF PAVEMENT						
509	13698054.72	2093605.78	EDGE OF PAVEMENT						
510	13698101.73	2093595.81	EDGE OF PAVEMENT						
511	13698091.96	2093548.89	EDGE OF PAVEMENT						
512	13698082.18	2093501.95	EDGE OF PAVEMENT						
513	13698058.20	2093565.29	PC OF 8' RADIUS						
514	13698042.21	2093564.92	PC OF 8' RADIUS						
515	13698029.48	2093513.03	EDGE OF PAVEMENT						
516	13697976.67	2093524.15	EDGE OF PAVEMENT						
517	13697983.66	2093550.75	EDGE OF PAVEMENT						
518	13697986.37	2093558.06	EDGE OF PAVEMENT						
519	13697969.82	2093561.55	PC OF 5' RADIUS						
520	13697957.93	2093554.14	PT OF 5' RADIUS						
521	13697968.36	2093597.73	PT OF 5' RADIUS						
522	13697975.93	2093585.78	PC OF 5' RADIUS						

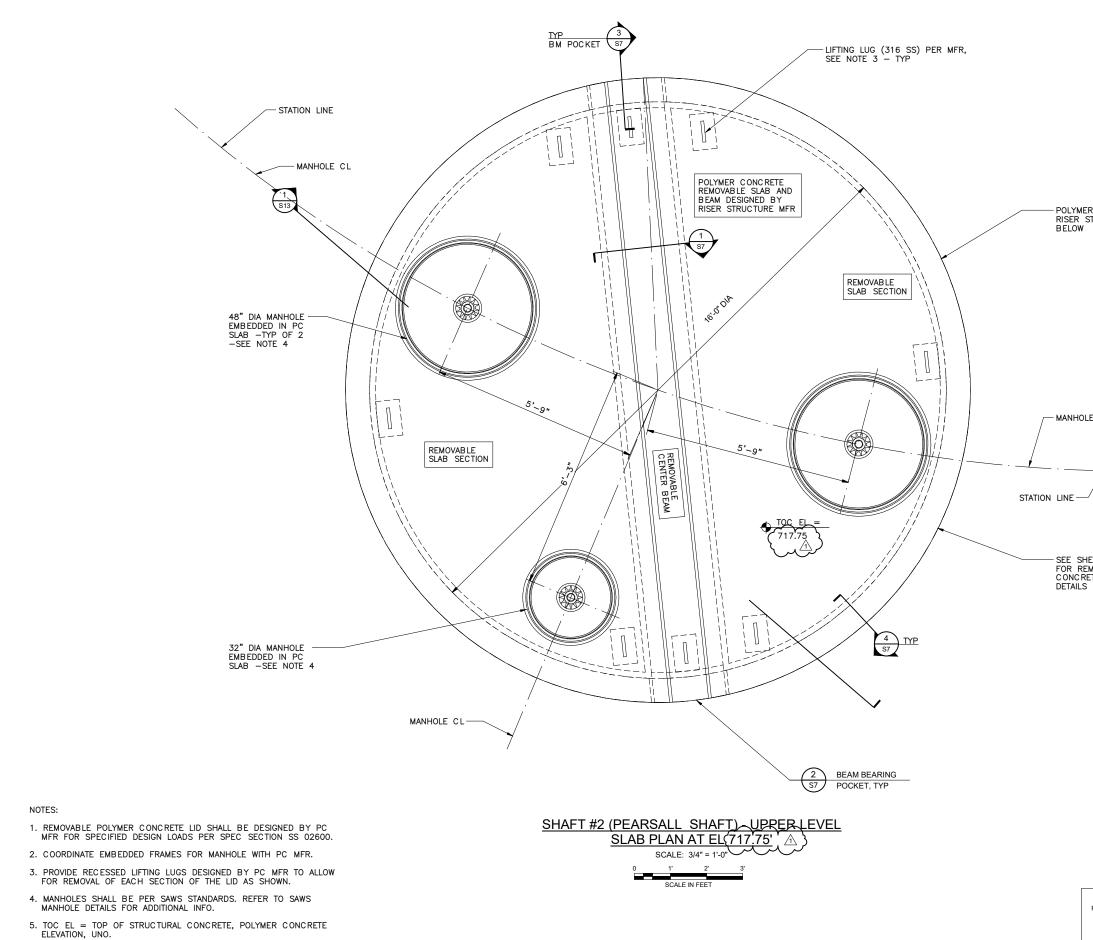




LEGEND					
PROPOSED MAJOR CONTOUR					
PROPOSED MINOR CONTOUR PROPOSED CONCRETE PAVEMENT PROPOSED TEMPORARY CONSTRUCTION EASEMENT EXISTING OVERHEAD ELECTRIC LINE AND POLE EXISTING CURB AND GUTTER EXISTING CURB AND GUTTER EXISTING GUARDRAILING EXISTING MINOR EXISTING MAJOR EXISTING LIGHTPOLE					
EXISTING SANITARY SEWER EXISTING WATER LINE EXISTING GAS LINE PROPERTY LINE EXISTING WATER METER	LINE		48" SS (S 4 W 6A 6A		48" SS
EXISTING FIRE HYDRANT			-C)-	
ATTREX A TANISMONTH BOTTON SOTTON STATISTICS NO.	KI Texas Re	egistere Loop 41		B Tel No.	Orn 210-541-9166 210-541-8699 Date
ADDENDUM NO. 1				JAF	3/9/2020
SAN ANTONIO WATER SYSTEM	HWY SITE (SOLI	90 · S LA DS	JPPER SE TO SW MI EWER MA YOUT S HANDLII CONNE	LITA IN HAF NG)	RY DR T #6 & #7
DATE: MARCH 2020	SAWS	S PROJE	CT NO.		SHEET NO.
DESIGN: JKN		19-45	19		
DRAWN: CRW	КНА	PROJE	CT NO.	(C92
CHECKED: JAF	C	068665052			

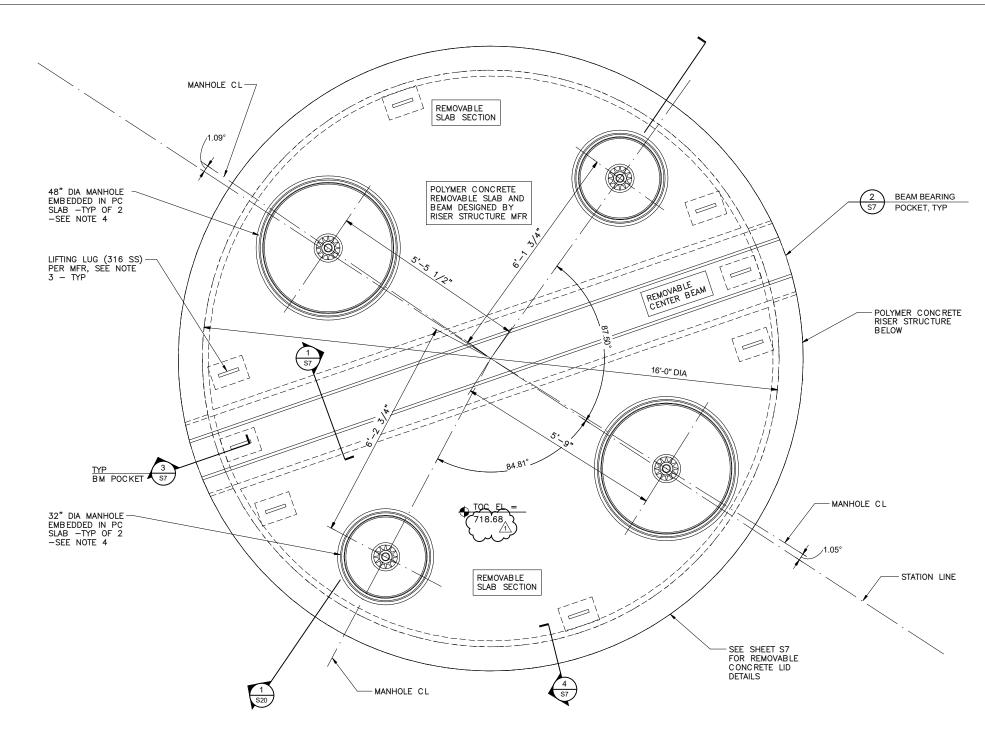


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ER CONCRETE STRUCTURE /			
DLE CL			
HEET S7 EMOVABLE RETE LID			
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	05/06/2020	5	
	Man Charles Contraction	100 GLASS STREET, SUITE 201 972.392.7340 PROJECT NO: 4190055	DALLAS, TEXAS 75207 JQIENG.COM TBPE FIRM F-7986
	No. ADDENDUM NO 1	Revision	By Date MKK 03/06/20
		W-6 UPPER SEC HWY 90 TO SW MII	
	SAN ANTONIO WATER SYSTEM	SHAFT #2 (PEARSA - UPPER LEVEL S	LAB PLAN
	515TEW	AT EL(717)	.75'' 🏠 }
THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34).	DATE: FEBRUARY 2020 DESIGN: CD	SAWS PROJECT NO.	SHEET NO.
ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).	DRAWN: LAS	KHA PROJECT NO.	S12
0" 1" BAR IS ONE INCH ON FULL	CHECKED: MK	068665052	

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NOTES:

- 1. REMOVABLE POLYMER CONCRETE LID SHALL BE DESIGNED BY PC MFR FOR SPECIFIED DESIGN LOADS PER SPEC SECTION SS 02600.
- 2. COORDINATE EMBEDDED FRAMES FOR MANHOLE WITH PC MFR.
- 3. PROVIDE RECESSED LIFTING LUGS DESIGNED BY PC MFR TO ALLOW FOR REMOVAL OF EACH SECTION OF THE LID AS SHOWN.
- MANHOLES SHALL BE PER SAWS STANDARDS. REFER TO SAWS MANHOLE DETAILS FOR ADDITIONAL INFO.
- 5. TOC EL = TOP OF STRUCTURAL CONCRETE, POLYMER CONCRETE ELEVATION, UNO.

- SHAFT #3 (MERRY OAKS SHAFT) UPPER LEVEL
 - SCALE: 3/4" = 1 0" ______ 0 1' 2' 3' SCALE IN FEET

			JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 972.392.7340 PROJECT NO: 4190055	I	TEXAS 75207 IQENG.COM FIRM F-7986
	No.		Revision	By	Date
		ADDENDUM NO 1		MKK	03/06/20
		SAN ANTONIO WATER SYSTEM	W-6 UPPER SEG HWY 90 TO SW MI SHAFT #3 (MER SHAFT) - UPPER L PLAN AT EL	LITAF RY C EVE	RY DR DAKS L-SLAB
THE SCALE INDICATED ON THE DRAWINGS IS FOR A	DATE:	FEBRUARY 2020	SAWS PROJECT NO.		SHEET NO.
FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).	DESIG	N: CD			
	DRAW	'N: LAS	KHA PROJECT NO.	3	S19
BAR IS ONE INCH ON FULL SIZE DRAWING.	CHEC	KED: MK	068665052]	

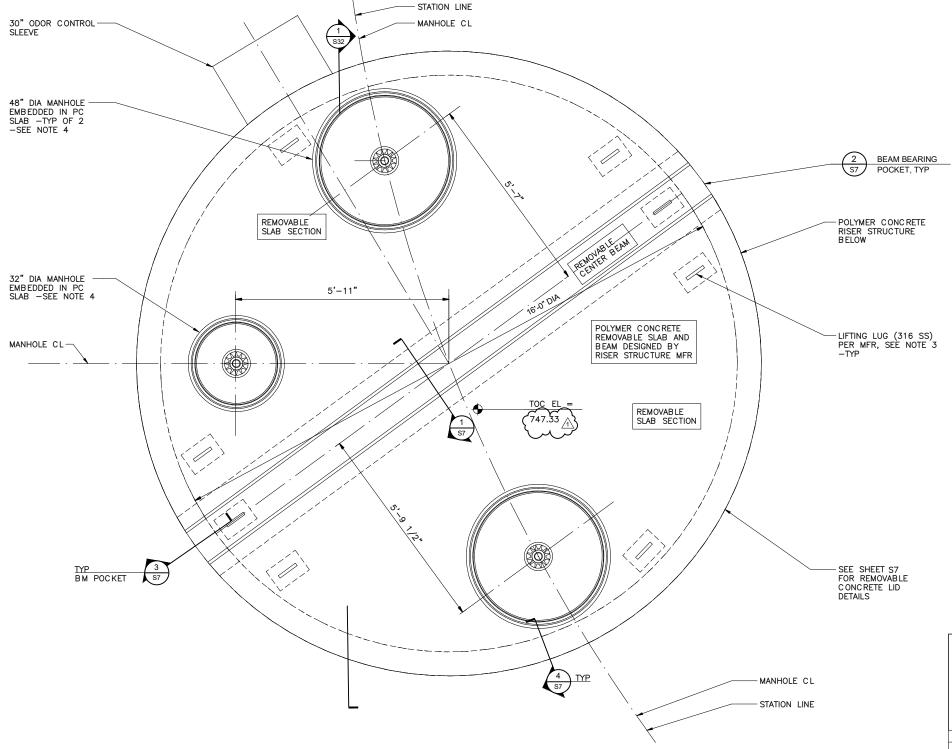
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- 1. REMOVABLE POLYMER CONCRETE LID SHALL BE DESIGNED BY PC MFR FOR SPECIFIED DESIGN LOADS PER SPEC SECTION SS 02600.
- 2. COORDINATE EMBEDDED FRAMES FOR MANHOLE WITH PC MFR.
- 3. PROVIDE RECESSED LIFTING LUGS DESIGNED BY PC MFR TO ALLOW FOR REMOVAL OF EACH SECTION OF THE LID AS SHOWN.
- 4. MANHOLES SHALL BE PER SAWS STANDARDS. REFER TO SAWS MANHOLE DETAILS FOR ADDITIONAL INFO.
- 5. TOC EL = TOP OF STRUCTURAL CONCRETE, POLYMER CONCRETE ELEVATION, UNO.

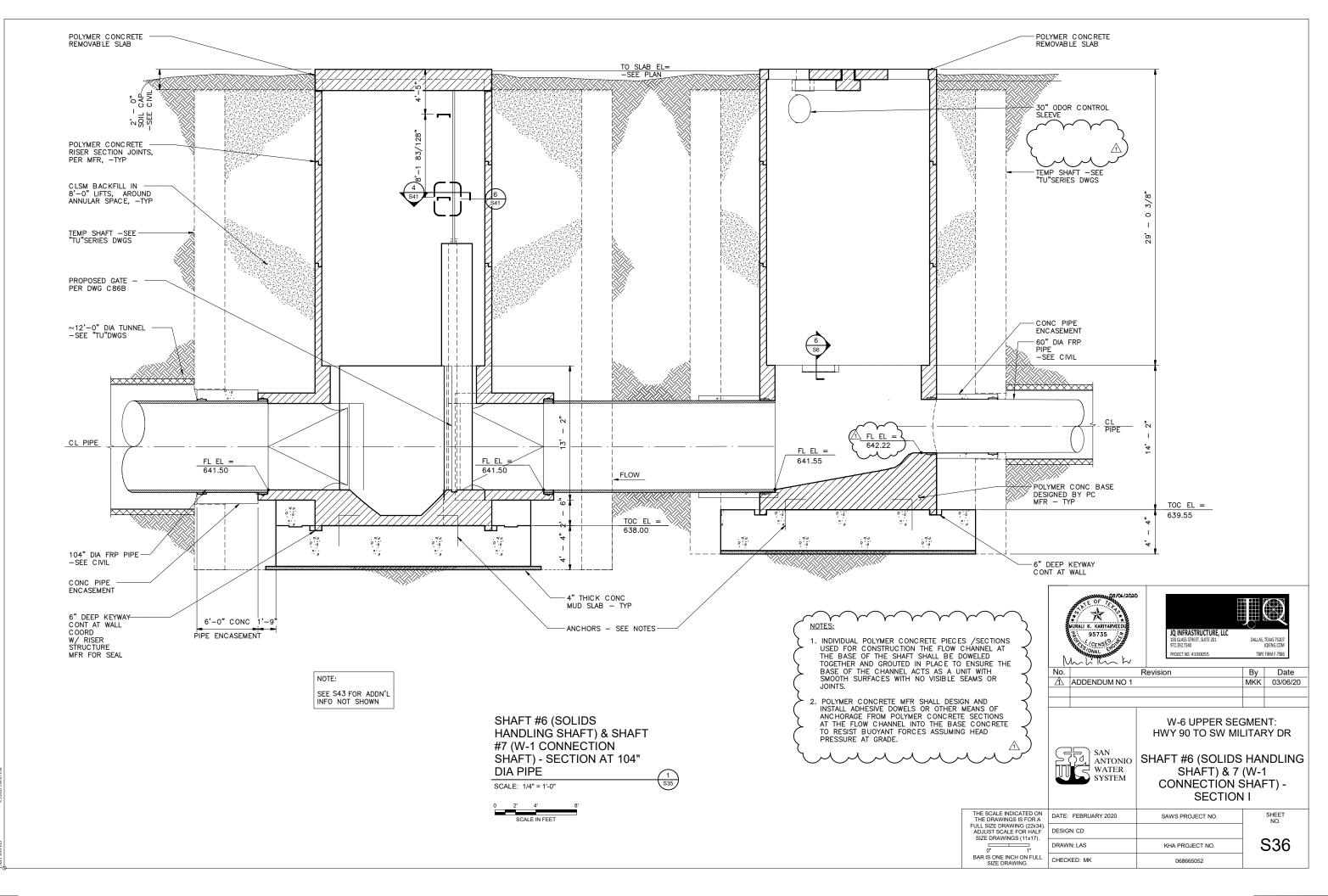


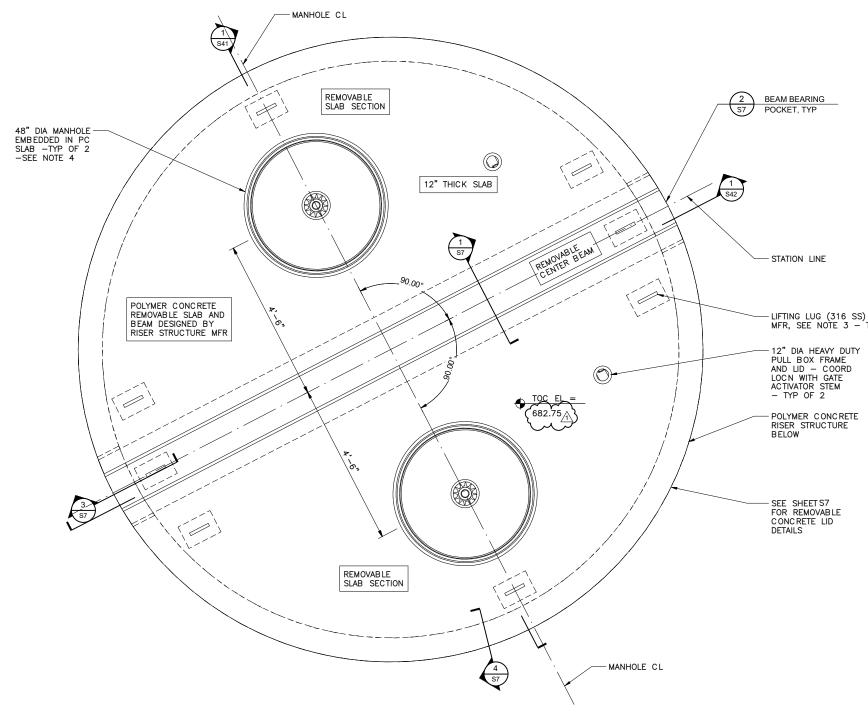
SCALE IN FEET



		NURALI K. KARIYARVEEDI 395735 CENSS CONST	JQ INFRASTRUCTURE, LLC 100 GASS STREET, SUITE 201 972.392.7340 PROJECT NO: 4190055	, j	TEXAS 75207 QIENG. COM FIRM F-7986
	No.		Revision	By	Date
		ADDENDUM NO 1		MKK	03/06/20
		SAN ANTONIO WATER SYSTEM	W-6 UPPER SEC HWY 90 TO SW MII SHAFT #5 (HOTEI UPPER LEVEL SL EL 747.3	LITAR L SH	RY DR AFT) -
THE SCALE INDICATED ON THE DRAWINGS IS FOR A	DATE:	FEBRUARY 2020	SAWS PROJECT NO.		SHEET NO.
FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF	DESIGN: CD			1	
SIZE DRAWINGS (11x17).	DRAW	N: LAS	KHA PROJECT NO.	3	S31
BAR IS ONE INCH ON FULL SIZE DRAWING.	CHECH	KED: MK	068665052	1	

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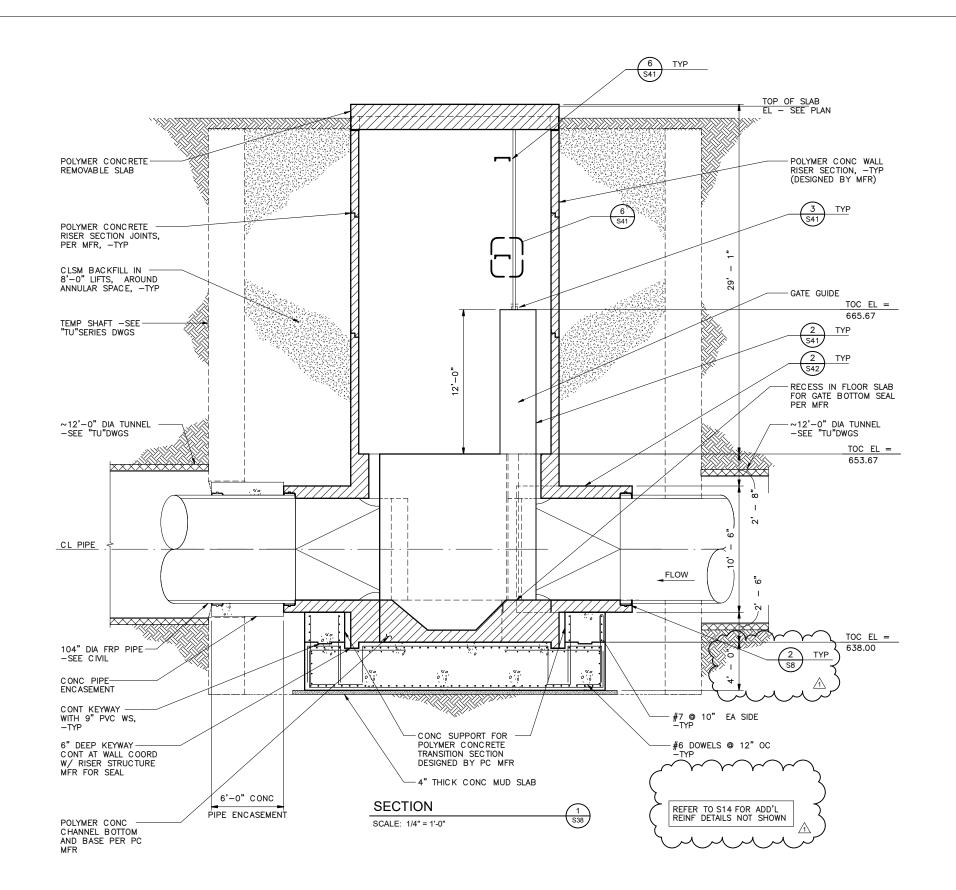
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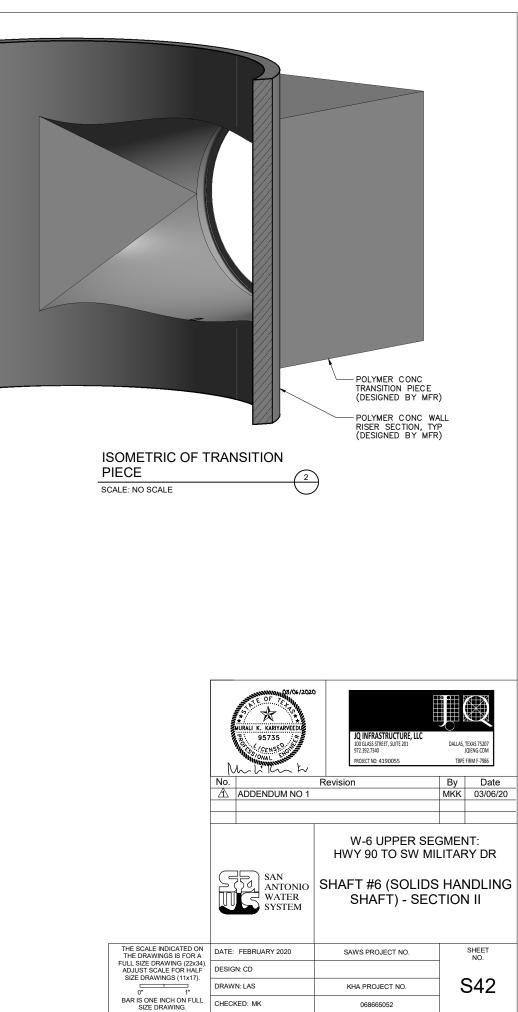
- 1. REMOVABLE POLYMER CONCRETE LID SHALL BE DESIGNED BY PC MFR FOR SPECIFIED DESIGN LOADS PER SPEC SECTION SS 02600.
- 2. COORDINATE EMBEDDED FRAMES FOR MANHOLE WITH PC MFR.
- 3. PROVIDE RECESSED LIFTING LUGS DESIGNED BY PC MFR TO ALLOW FOR REMOVAL OF EACH SECTION OF THE LID AS SHOWN.
- 4. MANHOLES SHALL BE PER SAWS STANDARDS. REFER TO SAWS MANHOLE DETAILS FOR ADDITIONAL INFO.
- 5. TOC EL = TOP OF STRUCTURAL CONCRETE, POLYMER CONCRETE ELEVATION, UNO.

- SHAFT #6 AT STATION 273+21.12 (SOLIDS HANDLING SHAFT) - UPPER LEVEL PLAN AT EL
 - SCALE: 3/4" = 1'-0"

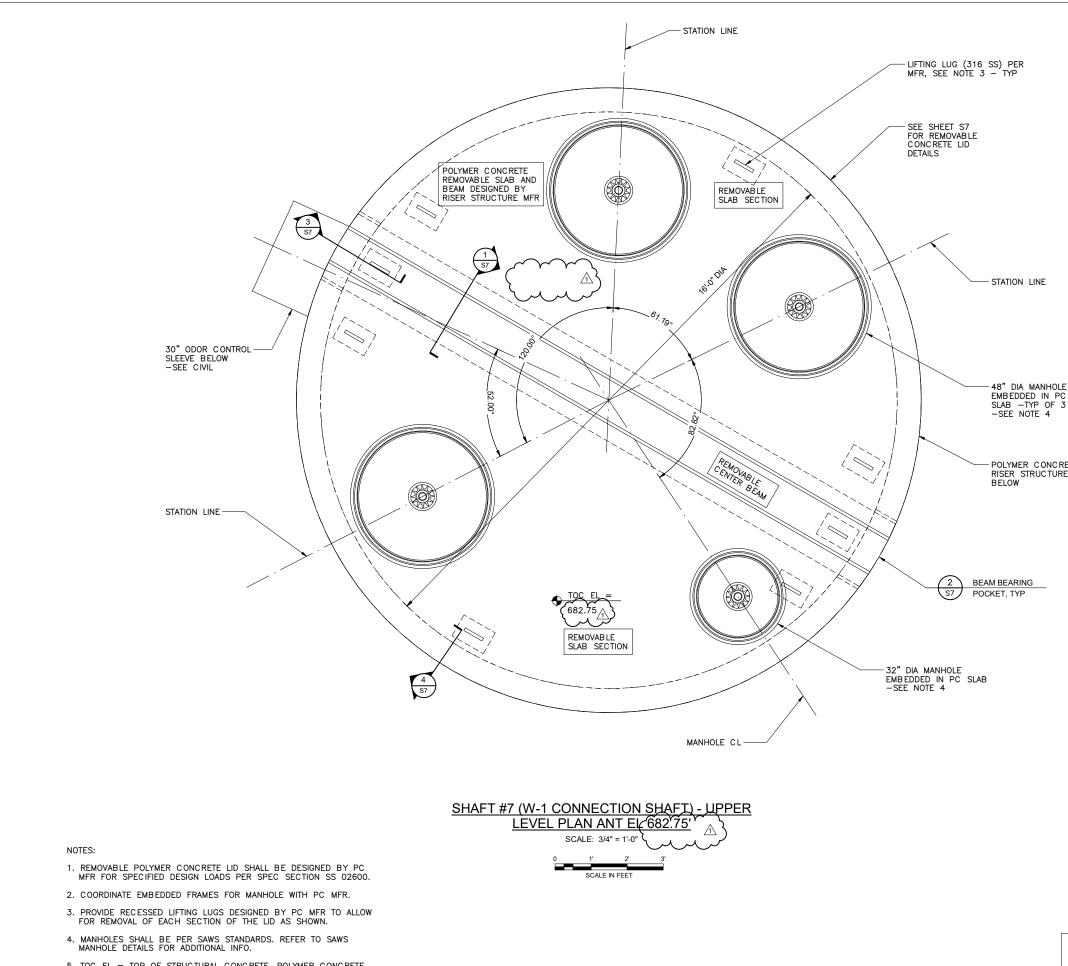
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		95735 95735 0041 K KARVARVED 95735 0041 0041 0041 0041	JQ INFRASTRUCTURE, LLC 100 GLASS STREET, SUITE 201 972.922730 PROJECT NO: 4190055	Ĺ	EXAS 75207 QENG.COM IRM F-7986
	No.		Revision	By	Date
		ADDENDUM NO 1		MKK	03/06/20
			W-6 UPPER SEC HWY 90 TO SW MII		
		SAN ANTONIO WATER SYSTEM	SHAFT #6 (SOLIDS SHAFT) - UPPER L PLAN AT EL(6	Ę₩Ę	L∕SLAB
THE SCALE INDICATED ON THE DRAWINGS IS FOR A	DATE:	FEBRUARY 2020	SAWS PROJECT NO.		SHEET NO.
FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).	DESIG	N: CD			
	DRAW	N: LAS	KHA PROJECT NO.		540
BAR IS ONE INCH ON FULL SIZE DRAWING.	CHEC	KED: MK	068665052		



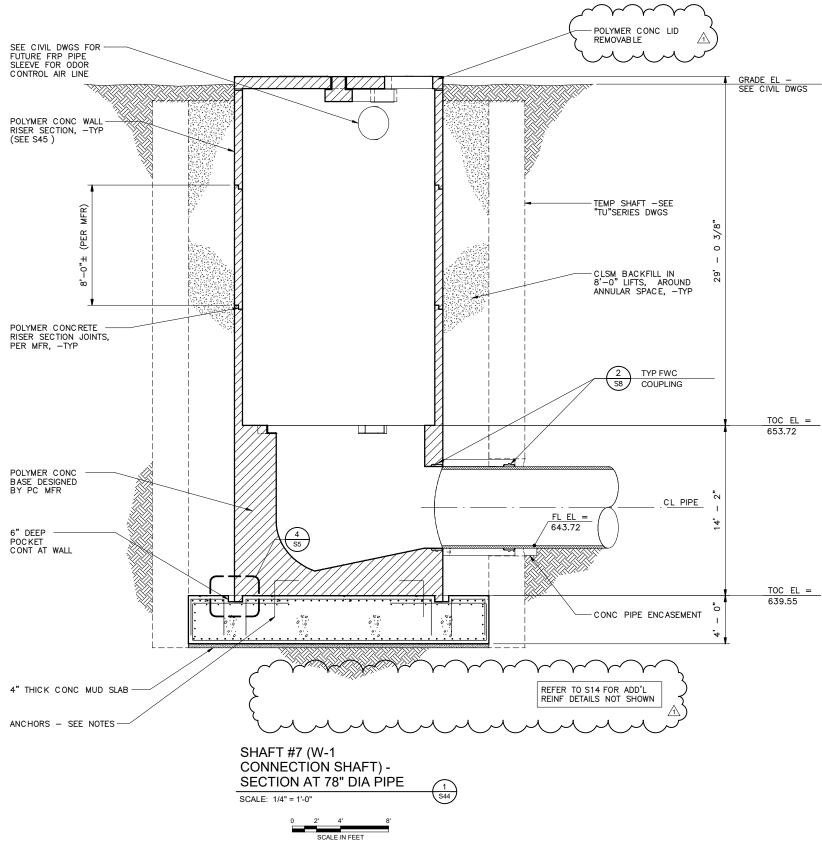


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5. TOC EL = TOP OF STRUCTURAL CONCRETE, POLYMER CONCRETE ELEVATION, UNO.

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E D 3				
ETE E				
	STRICT	JQ INFRASTRUCTURE, LLC 100 GLASS STRET, SUITE 201 972: 922730 PROJECT NO: 4190055	DALLAS, TEVAS 75:07 JQIENG COM TBPE FIRM F-7986	
	No. ADDENDUM NO 1	Revision	By Date МКК 03/06/20	
	SAN NUTONIO	W-6 UPPER SEC HWY 90 TO SW MIL	ITARY DR	
	S O antonio WATER SYSTEM	SHAFT #7 (W-1 CC SHAFT) - UPPER L PLAN AT EL	EVEL SLAB	
THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34).	DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET NO.	
ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).	DESIGN: CD DRAWN: LAS	KHA PROJECT NO.	S47	
0" 1" BAR IS ONE INCH ON FULL SIZE DRAWING	CHECKED: MK	068665052		



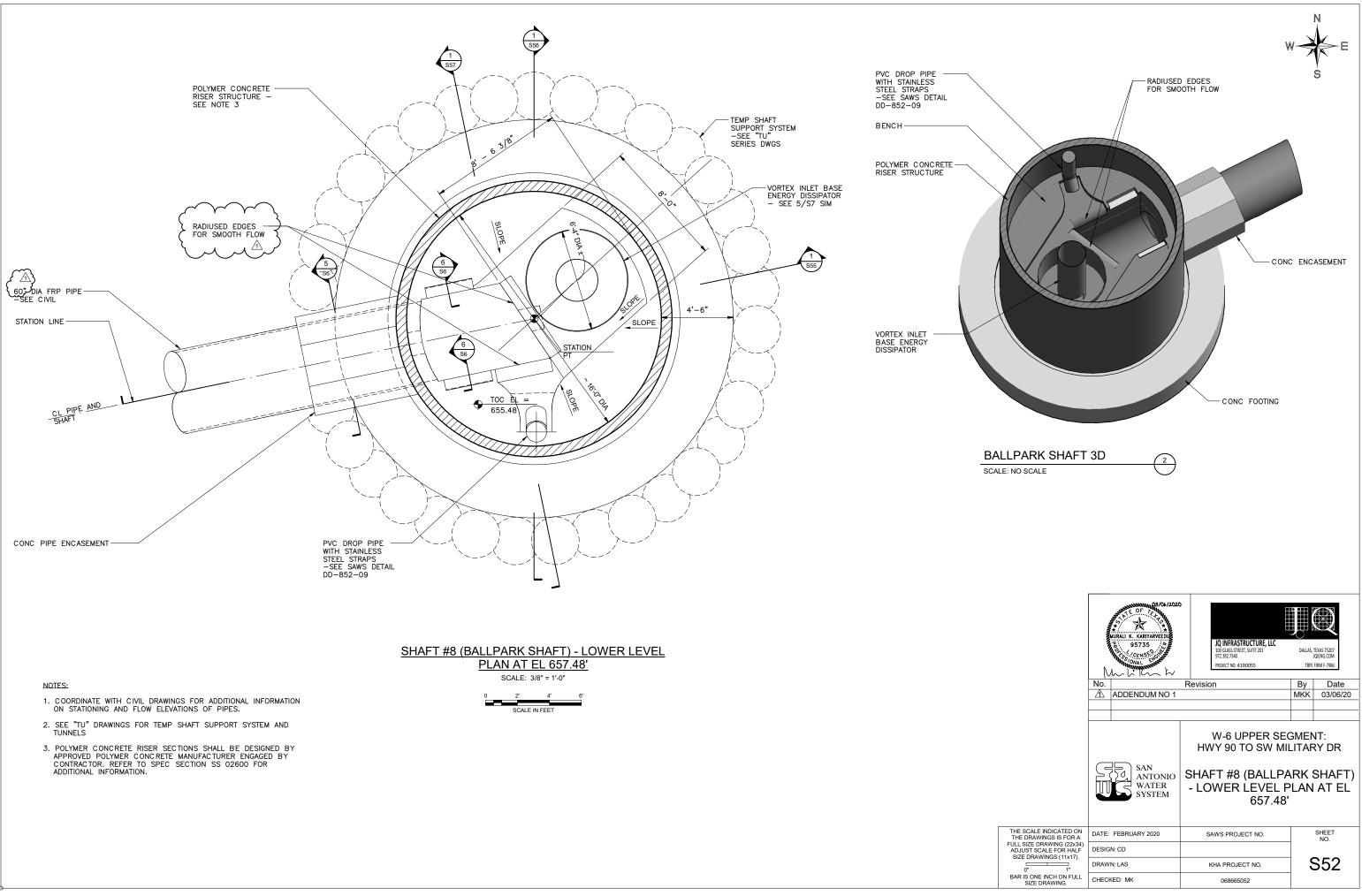
TED BY VAME SAVED PLOJ PWG TSAJ

NOTES: 1. INDIVIDUAL POLYMER CONCRETE PIECES /SECTIONS USED FOR CONSTRUCTION THE FLOW CHANNEL AT THE BASE OF THE SHAFT SHALL BE DOWELED TOGETHER AND GROUTED IN PLACE TO ENSURE THE BASE OF THE CHANNEL ACTS AS A UNIT WITH SMOOTH SURFACES WITH NO VISIBLE SEAMS OR JOINTS. 2. POLYMER CONCRETE MFR SHALL DESIGN AND INSTALL ADHESIVE DOWELS OR OTHER MEANS OF ANCHORAGE FROM POLYMER CONCRETE SECTIONS AT THE FLOW CHANNEL INTO THE BASE CONCRETE TO RESIST BUOYANT FORCES ASSUMING HEAD PRESSURE AT CRADE PRESSURE AT GRADE. \triangle

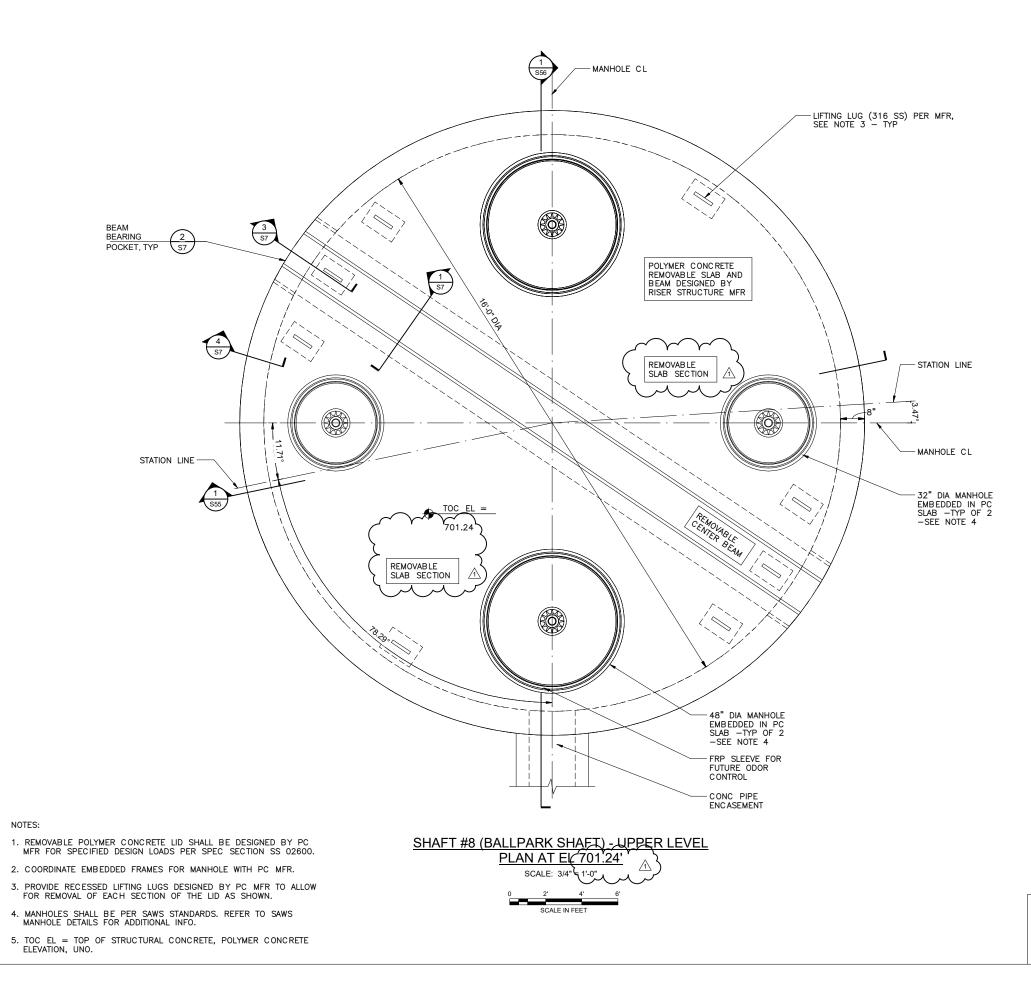
TOC EL = 653.72

639.55 /06/2020 ☆ K. KARIYAR JQ INFRASTRUCTURE, LLC 95735 DALLAS, TEXAS 75207 JQIENG.COM 00 GLASS STREET, SUITE 201 72.392.7340 PROJECT NO: 4190055 TBPE FIRM F-7986 Mulith
 By
 Date

 MKK
 03/06/20
 No. Revision ADDENDUM NO 1 W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR SAN ANTONIO WATER SYSTEM SHAFT #7 (W-1 CONNECTION SHAFT) - ENLARGED SÉCTION I THE SCALE INDICATED ON THE DRAWINGS IS FOR A FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17). SHEET NO. DATE: FEBRUARY 2020 SAWS PROJECT NO. DESIGN: CD S49 DRAWN: LAS KHA PROJECT NO. BAR IS ONE INCH ON FULL SIZE DRAWING. CHECKED: MK 068665052

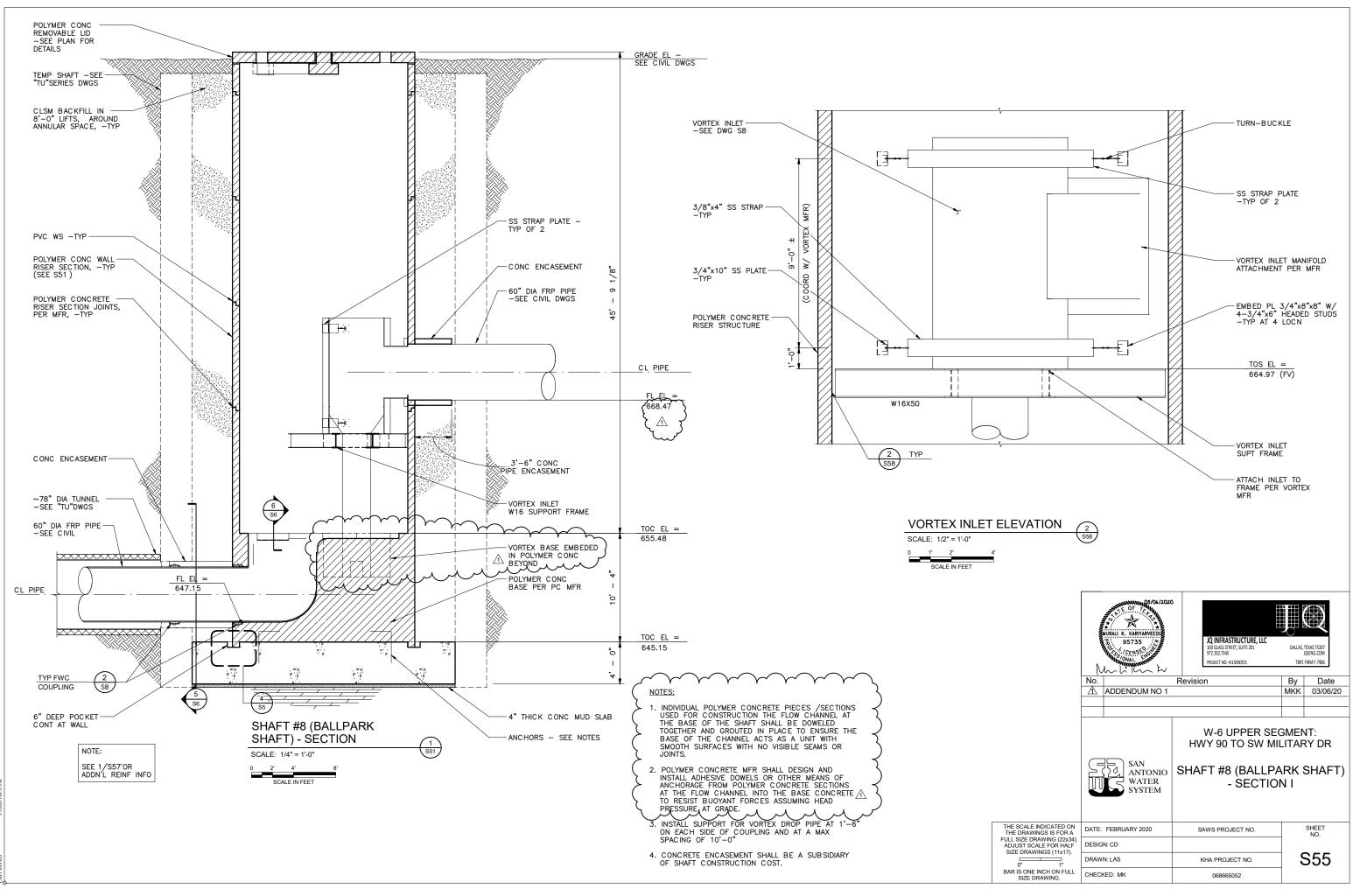


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	No.	hh h h	Ba	vision	By	Date
		ADDENDUM NO 1	Re	101011	Dy MKK	03/06/20
				W-6 UPPER SEC HWY 90 TO SW MIL		
		SAN ANTONIO WATER SYSTEM		HAFT #8 (BALLPA UPPER LEVEL-S AT EL(701.	LAB	SHAFT) PLAN
				\bigcirc		2
THE SCALE INDICATED ON THE DRAWINGS IS FOR A	DATE:	FEBRUARY 2020		SAWS PROJECT NO.		SHEET NO.
FULL SIZE DRAWING (22x34). ADJUST SCALE FOR HALF SIZE DRAWINGS (11x17).	DESIG	N: CD				
	DRAW	'N: LAS		KHA PROJECT NO.	5	S54
BAR IS ONE INCH ON FULL SIZE DRAWING.	CHEC	KED: MK		068665052		

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