



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

ADDENDUM 5
March 27, 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.

RESPONSES TO QUESTIONS

1. The following questions were included in Addendum 4, a response has been provided as part of this Addendum.

Ad 4 - Q19: SIR-6, Item 2.a.i. states "List and describe three (3) completed projects within the last ten (10) years of similar size, scope, and complexity to the work described in the Contract Documents for this Project."

Question: Our JV offers a wider variety of experience. Does the Response Format allow for us to submit three (3) projects for each company that makes up our JV?"

Response: *No, a JV becomes one entity that brings experience of all the parties to the JV. Please list and describe three (3) projects, as described in the SIR, that best demonstrate the proposed team's ability to perform similar work as described in the Contract Documents.*

Ad 4 - Q20: SIR-6, Item 2.a.ii. states "A minimum of two (2) of the three (3) projects listed above 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) for this Project.

Question: It will be extremely challenging and in some cases impossible to include 9+ Key Personnel that worked on 2 out of 3 projects within the last ten (10) years that are similar size, scope, and complexity to this project. For newly formed JV's with a mix of Key Personnel from each JV partner, this would certainly be impossible. Please limit the Key Personnel positions to only the most critical positions to have had experience on these projects.

Response: *Not every Key Person listed needs to be included in each of the projects submitted. Please list and describe projects that best demonstrate the proposed team's, and the Key Personnel's, ability to perform similar work as described in the Contract Documents.*

Ad 4 - Q58: In the Curve Summary of the HOBAS Pipe Submittal, there are a few inconsistencies when compared to the plans. Curves #3, 9, 10, and 14 do not match the exact plan values. The Curve Summary also shows Curve #17 with a pipe size of 104", whereas in the plans it is 60". Additionally, Curves #16 and #18 seem to be missing from this summary. Please advise.

Response: *The Curve Summary sheet of the HOBAS Pipe Submittal has been revised to address these inconsistencies via this Addendum. Reference Changes to Specifications Item 9 in this Addendum.*

2. The remaining questions have been submitted since Addendum 4 was issued and a response has been provided as part of this addendum.

Q1: For SIR-2 Paragraph C and the rest of the document concerning 'similar work experience', would SAWS consider removing the term wastewater from the statement, "Wastewater pipeline installations via tunnel construction methods are a primary business focus and service"? We have completed a significant amount of watermain and other carrier pipeline in tunnels. As you probably know, watermains are subject to more stringent testing and quality control processes and otherwise have extremely similar complexities of construction as a sewer pipeline in a tunnel.

Response: *No, the term "wastewater" will remain in the Required Experience section. The Respondent may choose to submit water and other carrier pipeline in tunnel experience. The Respondent is to note that SAWS retains sole discretion regarding what is deemed the most similar experience. If the experience submitted is different to the scope described in the Contract Documents it will be scored accordingly.*

Q2: Most shafts on the structural drawings show a CLSM backfill for the shaft. Shaft #1 (W-6 Middle Connection) Does not specify a backfill. Will CLSM be required for this shaft or will other backfill material be allowed?

Response: *CLSM backfill is required for the annular space between the construction shaft wall and the tee-base manhole wall. Reference Detail 1 on sheet C86C, which was added to the plans in Addendum No. 4.*

Q3: The note on drawing TU-20 states "contractor to determine exact shaft diameter based on planned means and methods." Is there a minimum shaft diameter required for each shaft? Is there a minimum clear space between outside diameter of polymer concrete riser structure and excavation support?

Response: *There is not a minimum clear space mandated by the design. The clear space should be adequate for construction means & methods, and for inspection of the constructed work.*

Q4: Please provide a copy of the Flood Plain Development Permit.

Response: *See Addendum No. 4 for this document.*

Q5: Please confirm the HOBAS specified limit for heat of hydration for all pipe sizes to be grouted

Response: *The Respondents should reach out directly to HOBAS regarding the impact to pipe associated with the heat of hydration.*

Q6: Please confirm that the quoted price from HOBAS includes field services for items such as fiberglass installation over carrier pipe grout ports

Response: *HOBAS price includes manufacturing of pipe and delivery to site. Grout ports are included, as outlined by project specifications. Glassing over grout ports is not required, per SS 02431 - Annular Backfill for Carrier Pipe, which was re-issued in Addendum No. 4.*

Q7: Please provide assumed dimensions of tunnel initial ground support used for the basis of the Engineers design and estimate.

Response: *Contractor should determine sizing of their proposed initial support systems as allowed in the specifications based upon their own planned means and methods, selected support spacing, material strengths, etc. There are several support methods that are permitted and many variables to consider. For the purposes of preparing the Engineer's Estimate, initial support for the non-pressurized sections of the alignment considered ribs and lagging with 6 to 8 inch steel sets spaced at 4 to 5 foot centers with timber lagging. Pressurized sections were estimated utilizing gasketed liner plate with 4 to 6 inch steel sets spaced at 4 to 5 foot centers. Precast concrete segments may also be utilized at the contractor's discretion.*

- Q8:** Please provide details to the referenced reconstruction of existing manhole
- Response:** Refer to SAWS Standard Construction Specification 855 for the reconstruction of existing manholes, available on the SAWS website at:
https://apps.saws.org/business_center/specs/constspecs/docs/2017/Spec_855%20Reconstruction%20of%20Existing%20Manhole_20180109.pdf
- Q9:** Can the contact grout for Annular Grout of the Carrier Pipe be batched in the tunnel with bags in lieu of from a batch plant?
- Response:** No.
- Q10:** Please confirm that all shaft locations serving tunnel operations can work the same working hour allowances (M-S; 24/7) as the tunnel.
- Response:** Confirmed.
- Q11:** Line Item 96 of the Bid Item Schedule, for Bypass Pumping of Small Diameter Sanitary Sewers, lists an Item Number of 864-S1. However, the updated, October 2019 Specifications, shows Item No. 865 as the section for Bypass Pumping of Small Diameter Sanitary Sewers. Please confirm the new Specification Section 865 is to be followed for this item.
- Response:** Refer to the response to question No. 2 in Addendum #4 for the SAWS Specifications to reference. Please reference the 2017 version of the specifications which reference Specification Section 864-S1.
- Q12:** Drawing G-39 shows two Bypasses: one for an existing 12" SS and one for an existing 54" SS. Questions regarding these bypasses are as follows:
a) We presume the Bypass Flow Data on G39 applies to the 54" SS. Please confirm. If not, what are the flows in the 54" SS?
b) The Bypass Flow Data chart lists the proposed Suction Manhole as MH A1 and what appears to be a pipe size of 104". We find no MH A1 on the drawing. However, Drawing C1 shows that MH A1 sets over the new 104" SS at Sta. 11+82.69. However, Drawing G39 shows no bypass coming out of this MH. Please clarify.
- Response:** Sheet G39 has been revised as part of this Addendum. Reference Changes to Plans Item 7 in this Addendum.
- Q13:** Special Conditions, Section SC10 directs the Contractor to refer to the Flood Plains Development Permit for clarity regarding exactly what is required within floodplain areas. We were unable to locate this permit in the documents. Please provide or direct us to the location of this permit.
- Response:** See Addendum No. 4 for this document.
- Q14:** The bypass for the 15" SS shown on Drawing G42 shows a proposed suction MH with an invert elevation of 679.20. However, Drawing C80 shows a new MH being built on this 15" line, just slightly downstream from the proposed suction MH, an invert elevation of 686.44. Please clarify.
- Response:** The invert elevation on sheet G42 has been revised. Reference Changes to Plans Item 8 in this Addendum.
- Q15:** Drawing G41 shows a bypass for the existing 78" FRP Sewer. The size of the pipe places this bypass within Line No. 97 of the Price Proposal. Because of the special situation of stoplogs upstream, the flows for this bypass are more like those seen in small diameter pipes under Line No. 96. Is this bypass to be included under 96 or 97?
- Response:** The bypass pumping required behind the stoplogs is considered small diameter bypass pumping and therefore should be included in Line Item No. 96.

- Q16:** Who is responsible for removal of the stop logs in the 12' diameter manhole, installed on SAWS Job 15-4508 and shown on Drawing G41? Is there a bypass plan for that work?
- Response:** *The W-6 Contractor should be responsible for the removal of stop logs and transfer of flows. Refer to Plan Sheet G41 for the bypass of flows behind the stop logs. The Contractor will be able to remove these stoplog while the flow is still in the MH, without need for an addition bypass setup.*
- Q17:** Using the quantity tables on the drawings, we are having difficulty summing to the Price Proposal Line No.'s 98 thru 102. It appears that the quantities shown for Line No.'s 101 and 102 have been duplicated in Line No.'s 98 and 99 respectively. Please advise.
- Response:** *The items for lines No. 101 and 102 were redundant and have been removed. References to Item 866A on the Abandonment sheets (G34-G37) have also been removed. Reference Changes to Plans Items 1 in this Addendum. The Price Proposal will be updated to reflect the revised quantities in a later addendum.*
- Q18:** Bid items 107-109 have a unit of measure of "MD". Please advise what MD stands for?
- Response:** *"MD" stands for man days.*
- Q19:** Addendum #1 changed the Special Provision SP 100A -Mobilization from 7% to 2% excluding the TBM payments. Given the extensive bid item schedule and the amount of equipment/personnel needed to start a tunnel project of this size; and conducting a rough cash flow analysis on the Engineer's Estimate, it appears Contractors will have to operate at a cash negative deficit for a substantial portion of the contract. Please consider revising this mobilization percentage to keep contractor's cash neutral at a minimum.
- Response:** *The request for revision to the mobilization percentages was considered but will not be changed for this project. The values for Item SP100B - TBM Mobilization and Item 100 - Mobilization will remain at 5% and 2%, respectively. The respondents may use other line items within the price proposal to ensure all costs are covered by the project.*
- Q20:** In conjunction with the changes made to SP 100 A and limiting SP 100B to 5% for (2) two TBMs including the stipulated progress payments in 100B.3, this provision places a burden on the contractors to finance the cost of the TBMs for quite some time during the project. Generally TBM manufacturers will ask for a payment at time of the purchase agreement and interim payments during the progress of manufacturing with the small remainder due at delivery. Please consider increasing the limit and include other tunnel equipment in this section to ensure contractors can stay cash neutral for the TBMs and ancillary equipment investments needed to perform the work.
- Response:** *See response to question No. 19 in this Addendum.*
- Q21:** Concerning Pay Item 71-Excavation via Guided Boring or Microtunneling (36-inch): This wording in the pay item describes two very different tunneling technologies. Guided bore consists of a traditional open-faced auger bore with the addition of a pilot guidance technology. Microtunneling is a sealed and pressurized face that, by definition, includes remote laser guidance. Is the intent of SAWS to have a 36" casing installation accurate enough to provide adequate slope for 8" and 12" carriers, or to provide pressurized face support, or both?
- Response:** *The intent is to have the 36" casing installed within the tolerances indicated in the Specifications to meet the required slopes indicated in the Plans.*
- Q22:** Is there or will there be an attendee list for the webex meeting held today for the W-6 Upper Segment: Hwy 90 to SW Military Dr Sewer Main Project?
- Response:** *SAWS does not have an official list of all pre-proposal meeting attendees. The list is included as an attachment to this Addendum and is only a list of the Webex logins since the meeting was held via WebEx.*

Q23: Please provide the annual number and approximate dates for the "SAWS Holidays" which are referenced within the specifications and are to be incorporated into Contractor's Schedule.

Response: *SAWS observes eleven (11) holidays. The year 2020 holidays are as follows. Subsequent years will be similar though the exact holidays are not yet known.*

- *New Year's Day*
- *Martin Luther King Day*
- *Fiesta San Jacinto (for 2020 will be observed in November)*
- *Memorial Day*
- *Independence Day*
- *Labor Day*
- *Thanksgiving Day*
- *Day after Thanksgiving Day*
- *Christmas Eve*
- *Christmas Day*
- *New Year's Eve*

Q24: GC 5.13.5 as revised by the Supplemental Conditions states "The Respondent is required to submit a baseline schedule as part of the proposal." and per GC 5.13.6.1, "Each schedule activity shall be assigned a cost value consistent with the Schedule of Values."

Is it intended that the Schedule submitted with the proposal be different than the Project's Baseline Schedule which incorporates the Schedule of Values to the level of detail as described in Section 01300?

Since the Schedule Values is to line up with the Bid Form, and due to the number of bid items on the bid form, this will create a large quantity of schedule activities, which you would not typically detail out for a bid schedule. For example, Bid Item No. 33 for Construction Perimeter Fence would require 8+ schedule activities. This creates a significant amount of effort to put together for a complex project and is an added distraction that takes away from the Contractor's focus on means and methods and outreach efforts required to submit the best possible proposal to the Owner. Additionally, minor non-critical-path changes to bid schedules can occur during the closeout of the bid and there may not be enough time to incorporate them into the bid schedule. A higher level schedule would provide the same level of benefit to the Owner at proposal time without being onerous to the Contractor.

Response: *Respondent shall submit a Project Schedule with their proposal, as indicated in the SIR E.3.b. The schedule does not need to incorporate detailed Schedule of Values.*

Q25: In the Supplemental Conditions, paragraph 8.8.1, Intermediate Milestone 1 requires that the TBM for Tunnel Segment 2 be delivered to the Pearsall Shaft site 9 months from NTP. However, SS 01030, Table 1.02 states that there is a nine (9) month timeframe for power installation by CPS. Is the intent to have the TBM on site, potentially without any testing and commissioning of the newly installed power drop, or without the ancillary power distribution equipment installation by the Contractor? Or is it intended that the Contractor launch the TBM with temporary power generation?

Response: *The intent is to have the power to the site from which the contractor will begin tunneling, at, or before, the time the TBM is delivered to the site. Power to the site includes the commissioning of any equipment provided/required by CPS as part of providing a power source (i.e., poles, wires, transformer, grounding, and protective devices. Need for, and timing of, Contractor-installed ancillary power distribution equipment is solely the responsibility of the Contractor based on project approach/means-and-methods. The intent of SS 01030 is to inform the contractor of key milestones that are required and provide guidance on when to initiate the key milestones. The contractor is expected to initiate the final permitting process with CPS immediately after NTP to ensure power is in place prior to TBM delivery at month nine (9). It is not intended for the contractor to launch the TBM using temporary power generation unless the contractor fails to initiate the final permitting process with CPS within the timeframes provided in the Contract Documents.*

- Q26:** It was mentioned in the Pre-Proposal Meeting Q&A session that the HOBAS PO will not be made available to the Contractor until after the proposal is due. Because the Contractor is required to execute this PO, please reconsider releasing the terms and conditions of the PO, a detailed scope and pipe lay schedule (including all pipe lengths and quantities, not just the curve summary data included with the pipe submittal). This information is important to our estimate to properly account for deliveries and installation.
- Response:** *The Contractors may coordinate directly with HOBAS regarding the schedules and scope for delivery and pipe quantities. No additional information will be provided by SAWS regarding the pipe submittal.*
- Q27:** Do all shafts require CLSM or flowable fill backfill between shaft support and outside of structure? If so, does the flowable fill quantity in the bid form account for this material or is the material subsidiary to the structure or shaft?
- Response:** *All shafts will require flowable fill, per SS 02440. Flowable fill around structures and manholes is subsidiary to those pay items. Bid item 401 accounts for the filling of bore pits for sewer lines B and C.*
- Q28:** Can a list of the approved polymer concrete structure manufacturers for this project be provided?
- Response:** *The approved polymer concrete manufacturers are Armorock and U.S. Composite Pipe, Inc. as specified in SS 02600 2.3 (B).*
- Q29:** If in-person bid submission is prohibited or not feasible by the ongoing COVID-19 situation, there is also the possibility that mail/courier services could become severely affected and potentially unreliable. Would the Owner consider an electronic bid submission option?
- Response:** *SAWS is closely monitoring the current situation and would not be opposed to electronic submissions, but would make a change, if any, through Addendum several weeks before the proposal deadline.*
- Q30:** The Special Conditions have been updated in Addendum #1 to include conditions for the Leon Creek Greenway. SC.23.H notes, "The location of the Project is located entirely within the 100-year floodplain and floodway areas of Leon Creek." Per the drawings the 100-year floodplain does not extend across the entire project. Is this a reference to W-6 Shaft (#1), Solids Handling Shaft (#6) and W-1 Shaft (#7) only?
- Response:** *This Special Condition is only associated with portions of the project that near the limits of the Leon Creek Greenway which consists of Shafts #6 and #7.*
- Q31:** After reviewing a number of the EPA Consent Decree documents (United States of America and State of Texas v. San Antonio Water System, original filed on Oct 15, 2013) on SAWS's website. It appears that the federal completion date is in the Fall of 2020. This project was originally listed on the Phase 1 EAP with remedial measures completed within 72 months from the date of lodging (Oct 2019). This project was moved to Phase 2 EAP in a modification (Oct 2015) due to easement issues with the Air Force Base. Phase 2 EAP was required to be submitted 24 months after the Date of Lodging (Oct 2015) and remedial measures completed within 60 months (Oct 2020). No recent Consent Decree Modifications were provided online. What is the final date of the Consent Decree for SAWS to be in compliance with the EPA?
- Response:** *The current Consent Decree completion date is July 22, 2025. However, Contractor shall note that the substantial completion date for the W6 Upper Segment project is July 13, 2023.*
- Q32:** Please explain the current Consent Decree schedule / situation and how this relates to the maximum consequential damages that is limited to an amount not to exceed \$18 million. What fines, fees, costs make up this \$18 million total? What future planned projects are on hold until the completion of the W-6 tunnel project?
- Response:** *SAWS made Business decision to limit consequential damages to approximately 10% of the engineers opinion of probable construction cost. The other CD projects that are upstream of W-6 and their CD deadlines are as follows: W-1 Upper – 7/22/23, W-2 – 7/22/25, W-9 - 7/22/27, W-52 – 7/22/27.*

Q33: Does the consequential damages amount include the Liquidated Damages that are limited to \$7.3 million?

Response: *Liquidated Damages are separate and apart from Consequential Damages.*

Q34: Per the Supplemental Conditions, as modified in Addendum #2, the NTP is now 7.13.20 which leaves 9 months to receive (2) TBM's onsite before 4.13.21. This is a unrealistic time fame for manufacturing of a new TMB or the refurbishment of an older TBM, including global shipping durations to San Antonio. Please revise to 14 months.

Response: *The request for revision to the Supplemental Conditions was carefully considered but will not be changed for this project. The timeframe for providing a new or refurbished TBM will remain as stated in Supplemental Condition 8.8. This is only intended to be for one TBM to the Pearsall Shaft site and is not intended for the second TBM. The purpose of the contractor outreach meeting held on October 18th was to provide contractors with advance notice of the project and allow for the process of locating existing machines meeting the general requirements of the project.*

Q35: Since this project requires (2) TBM's and complete system accessories as itemized in Section SS 00100B.1, which have costs upwards of \$30 million and are specified to be covered by the Bid Item #116. The proper mobilization amount as outlined in Section SS 00100B.3 limits the TBM Mobilization Bid Item #116 to the maximum of 5% of Items 1 to 106 on the bid form. Please adjust the current maximum TBM mobilization from 5% to 17% which is equal to \$30 million out of the revised \$180 million engineers estimate.

Response: *See response to question No. 19 in this Addendum.*

Q36: Per the GBR, section 4.7, Tunnel Reach 4 states "...the limited cover and adverse ground conditions beneath the creek.". Does the design engineer have any concerns with buoyancy of the mandatory precast segmented or gasketed liner plate tunnel as it crosses the Leon River with +/- 12' of cover?

Response: *Buoyancy has been considered as part of the design of the proposed alignment and diameter for the tunnel. Contractor will be required to validate buoyancy of the tunnel support system based on their means and methods including the selected support system.*

Q37: Per Special Specifications Section 01030 1.02 and the open communication that SAWS has had with CPS Energy per the Pre-Bid conference call. Please provide the amount (kVA) of power that is available at each shaft location.

Response: *CPS Energy has not issued a maximum load available. SAWS has provided CPS Energy with an anticipated maximum load of up to 5500 kVA at Shafts 1, 2, 3, 4 and 5. It is not feasible to extend power to the Hwy 90 shafts, as indicated in contract documents. CPS Energy will not be extending power to those sites, and Contractor will need to make arrangements for generator power.*

Q38: Both bid items 71, "Excavation via Guided Boring or Microtunnel (36-inch)" and 72, "Installation of Steel Casing Pipe (36-inch)" are conducted simultaneously in both the guided bore and microtunnel method. How would SAWS like contractors to break down this cost between these two items?

Response: *Breakdown the cost in a manner that is consistent with the independent labor and material costs for each aspect of the process to be completed.*

Q39: Drawing C84 shows the 24" slip line work. Detail Note 1 says "SLIP LINE SHALL MEET PROPOSED FLOW LINES". What are the proposed flow lines? Obviously, the 24" carrier pipe invert will be higher than the existing 54" sewer pipe invert as shown in the detail. This will result in a "ponding" upstream of the 24" carrier pipe. Is this the intent?

Response: *The objective of the slipline is to install the carrier pipe at the lowest possible flowline to minimize the ponding that will occur upstream. We understand that ponding will occur until the upstream project to be completed by JBSA, is constructed. The slipline flowline elevations have been revised. Reference Changes to Plans Item 10 in this Addendum.*

Q40: Based on a review of the General Conditions (as supplemented and modified by the Supplemental Conditions), it does not appear that a waiver of consequential damages benefitting Contractor is currently included. Such a waiver would benefit both Owner and Contractor as each would not be entitled to seek consequential damages from the other. Further, including such a waiver would allow Contractor to provide more efficient and competitive pricing, which will result in a better value for Owner. Contractor requests such a waiver be added and proposes the following language (or similar language to the same effect) be added to the contract: "NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, NEITHER OWNER NOR CONTRACTOR SHALL BE LIABLE TO THE OTHER PARTY FOR ANY LOST PROFITS, ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, TREBLE, SPECIAL, PUNITIVE OR SIMILAR DAMAGES, HOWEVER CAUSED AND UNDER ANY THEORY OF LIABILITY, INCLUDING, WITHOUT LIMITATION, NEGLIGENCE, STRICT LIABILITY, INDEMNITY, OR BREACH OF CONTRACT OR WARRANTY, EVEN IF SUCH PARTY IS ADVISED OF THEIR POSSIBILITY." Please Advise

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q41: Section 8.6 of the General Conditions (as modified by the Supplemental Conditions) does not include express language indicating that the liquidated damages specified therein will serve as Owner's sole and exclusive remedy for delays caused by Contractor. The concept of liquidated damages for delay exist precisely to account for instances where actual damages for delay are difficult to ascertain. This effectively allows Contractor to more closely price the risk for delays, which results in more competitive pricing and a lower overall cost to Owner. In order to take advantage of the full benefit of liquidated damages, Contractor requests that the following language be added to Section 8.6: "Notwithstanding anything to the contrary contained in the Contract Documents, payment of liquidated damages to Owner under this Section 8.6 shall constitute fulfillment of all liabilities of Contractor for delay in delivery of the Work, whether such liabilities are based in contract, law, a settlement, a court order, or under any other theories of liability." Contractor requests the above language in order to clearly define the risk associated with any delays caused by Contractor. Such language is critical in allowing liquidated damages to serve its chief purpose as a risk controlling device that provides assurance to both Owner and Contractor that the specified costs are sufficient to cover delays caused by Contractor.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q42: Based on a review of the General Conditions (as supplemented and modified by the Supplemental Conditions), it does not appear that an overall limitation on Contractor's liability is currently included. Including such a limitation would allow Contractor to provide more efficient and competitive pricing, which will result in a better value for Owner. Contractor requests such a limitation be added and proposes the following language (or similar language to the same effect) be added to the contract: "NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THE CONTRACT DOCUMENTS, IN NO EVENT SHALL CONTRACTOR'S AGGREGATE LIABILITY TO OWNER ARISING OUT OF, RELATED TO OR IN CONNECTION WITH THIS CONTRACT EXCEED FORTY PERCENT (40%) OF THE CONTRACT PRICE PAID TO CONTRACTOR."

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q43: Based on a review of the General Conditions (as supplemented and modified by the Supplemental Conditions), it does not appear that a dispute review board (DRB) is contemplated for this project. DRB use is common on projects involving tunneling work and has been shown to decrease the number of costly disputes and promote efficient resolutions. A DRB is generally comprised of three neutral individuals who are selected by the parties to the construction contract. Generally, the disputes handled by a DRB are settled “in house” and are settled much faster than having the dispute handled through an outside arbitration or by going to court while utilizing the litigation process. As the project continues, the DRB becomes more familiar with the project and can be more valuable in issuing their opinions as their knowledge of the project grows. It is well-known that a construction-related dispute that is handled by a construction-knowledgeable mediator and/or arbitrator will yield a more fair and equitable agreement or award than a verdict that was issued by a judge or jury without construction knowledge. In light of the above well-established benefits, Contractor proposes including a DRB for this project.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q44: Based on a review of the General Conditions (as supplemented and modified by the Supplemental Conditions), it does not appear that an express Force Majeure provision benefitting Contractor is included. Force Majeure events are, by definition, beyond Contractor’s control. As such, it is unreasonable for Contractor to bear the risk of such happenings. Contractor requests a force majeure provision be added to the contract and proposes the following language (or similar language to the same effect) be added to the contract: “Notwithstanding anything to the contrary contained in the Contract Documents, Contractor shall not be liable for any failure or delay in the performance of any of its obligation under the Contract when such failure or delay is caused by an event beyond the reasonable control of Contractor (a “Force Majeure Event”). Examples of a Force Majeure Event include, but are not limited to, acts of God, fires, floods, windstorms, epidemics, explosions, riots, civil disturbances, natural disasters, terrorist acts, wars, sabotage, and labor disputes. Contractor shall be granted an equitable adjustment in the Contract Price and Contract Time on account of any Force Majeure Event.”

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q45: Section 4.6.2 of the General Conditions currently does not allow Contractor an opportunity to cure. Contractor requests a clause granting Contractor the opportunity to cure any default in the unlikely event one is to occur and proposes the following language (or similar language to the same effect) be added to the contract: “Notwithstanding anything to the contrary contained in the Contract Documents, before taking any adverse action (including termination) as a result of Contractor’s substantial violation of a material provision of the Contract, Owner shall provide Contractor with written notice of such violation and allow Contractor a reasonable period of time to commence curative efforts toward remedying such violation. Owner shall not take any adverse action against Contractor for such violation so long as Contractor is diligently prosecuting such curative efforts toward completion.”

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q46: Section 6.8 of the General Conditions is a no-damages-for-delay (“NDD”) clause. In addition to being disfavored under the law, NDD clauses create unquantifiable risk because they shift to Contractor the risk of unforeseeable conditions (future unanticipated delays) which are not Contractor’s fault. This results in inefficient pricing because it forces bidders to include sizeable contingency for a risk that may

or may not materialize. Further, as currently written this clause is inconsistent with other provisions in the contract where Contractor is entitled to price and time relief (see Section 5.6.b.2 of the Supplemental Conditions regarding differing site condition relief). Contractor strongly urges Owner to follow best practice and remove Section 6.8 and instead allow excused delays (which are, by definition, beyond Contractor's control and not its fault), including delays and suspensions ordered by Owner, to be submitted for equitable adjustment to the Contract Time and Contract Price.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q47: Section 4.8.5 of the General Conditions indicates that Contractor will not be entitled to equitable adjustments of the Contract Sum or Contract Time in the event of suspensions by Owner for environmental reasons. Further, this section appears to obligate Contractor to remedy hazardous materials encountered in the performance of its Work, regardless of whether such hazardous materials resulted from Contractor's work. Section 5.8 of the General Conditions further obligates Contractor to dispose of all hazardous materials. Together, the foregoing provisions operate to create an arrangement that is far from an equitable allocation of risk. Contractor strongly urges Owner to consider redrafting these provisions to provide for a more equitable risk profile. Such a desired risk profile contains the following elements: (i) Contractor's responsibility to address any hazardous materials should be limited to those hazardous materials that Contractor brings to the site; (ii) unknown hazardous material conditions are treated as a differing site condition thus entitling Contractor to equitable adjustments in the Contract Price and Contract Time; (iii) Contractor does not bear the risk for Owner suspensions relating to environmental matters; and (iv) Contractor shall not be deemed the generator of unknown or pre-existing hazardous materials. With regard to item (iv) immediately above, Contractor offers the following language for consideration: "Notwithstanding anything to the contrary contained in the Contract Documents, in relation to pre-existing Hazardous Materials/Substances and third party Hazardous Materials/Substances: (a) Contractor shall not be considered to be the generator of such Hazardous Materials/Substances located within or outside the Site; (b) Contractor shall not be required to execute any hazardous waste manifests as a "generator"; and (c) any Hazardous Materials/Substances encountered in the performance of the Work shall be disposed of, if at all, utilizing an EPA Identification Number or other appropriate legal device obtained by, and carried in the name of, Owner or another person designated by Owner (other than Contractor)."

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q48: Section 2.3 of the General Conditions imposes indemnity obligations upon Contractor that exceed appropriate limitations. In part, this provision requires that Contractor indemnify Owner for Owner's own negligence. Requirements of this sort have been invalidated by law in several jurisdictions. Contractor requests that its indemnity obligations under the Contract be more appropriately limited whereby Contractor would only indemnify Owner against third-party claims to the extent such claims are caused by Contractor's negligence or fault.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q49: Contractor requests that Owner include a provision granting Contractor a waiver of subrogation in the event any insurance maintained by Owner responds to a covered loss. Such a waiver will allow Contractor to provide more efficient pricing as it will not have to include contingency in its bid to account for potential follow-on litigation that could arise in the absence of such a waiver of subrogation.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q50: Section 5.16 of the General Conditions places much of the utility risk for this project on Contractor. For example, the utility maps and other information provided by Owner cannot be relied upon by Contractor. Further, Contractor is being asked to verify the depths of utilities. A more equitable allocation of risk is that Contractor be able to rely on the utility information provided by others and be entitled to an equitable adjustment in the Contract Price and Contract Time in the event unknown utilities are encountered during the performance of the Work. Contractor requests this provision be reworked to allow for a more equitable allocation of risk consistent with the foregoing. Otherwise, the current allocation of risk will lead to increased contingency.

Response: *This is requesting an exception to the General Conditions of the Contract. All exceptions to the Contract are included in the Supplemental Conditions and the Special Conditions. No additional changes to the General Conditions are being made at this time, however per Changes to Specifications Item 4, revisions have been made to allow Contractor to indicate any exceptions to the Contract which may be taken into consideration during the negotiations as outlined under TX Government Code Chapter 2269.155 (2) (b) & (c).*

Q51: Due to the unprecedented closures and shelter-in-place orders currently in place across the country we request SAWS change the submittal requirements to allow for the entire proposal to be submitted electronically.

Response: *SAWS is closely monitoring the current situation and would not be opposed to electronic submissions, but would make a change, if any, through Addendum several weeks before the proposal deadline.*

Q52: Special Provision SP 864-S2, Section 864.1, second paragraph states, "CONTRACTOR shall be fully responsible for all damages and costs related to the installation, modification of existing manholes/structures, operation, and maintenance of CONTRACTOR's bypass pumping operations including damages, clean up, fines, penalties, and other related costs." Are the damages and costs (damages, clean up, fines, penalties, and other related costs) described in SP 864-S2 included in the \$18 million limit of SC3?

Response: *Only to the extent that damages are consequential.*

Q53: I have been contacted by a contractor asking for a quotation for the odor control package for the bypass line. I've looked through the documents on the SAWS W-6 Upper Segment project website and I can't locate the specifications for the odor control system. Can you help me find them?

Response: *At this time there is no specification for the Odor Control Allowance. This allowance item is to provide a turn-key service for odor control along the W-1 Temporary Diversion to Medio Creek WRC bypass line until the W-6 Substantial Completion. During construction, coordinating with SAWS W-6 staff and SAWS Operations staff, the Contractor shall submit a solution for odor control along with the cost. The odor control scope will be paid from the provided allowance line item.*

Q54: With a shelter in place order for San Antonio until April 9th, the restrictions on group gatherings, etc, please consider adding dates for the core viewing beyond April 2nd. From our location, we are advised NOT to travel. The Coronavirus numbers are still escalating. Some of us will have to travel to San Antonio under these increasing conditions. Please also consider extending the bid date beyond May 1st. to a date when the Federal government and San Antonio remove the current restrictions.

Response: *Reference Changes to the Specifications Item 1 in this Addendum. SAWS is closely monitoring the current situation and will make a change, if any, through Addendum several weeks before the proposal deadline.*

Q55: I am contacting you to ask if you have any information on which primes have been short listed for the W-6 Upper Segment: Highway 90 to SW Military Drive Sewer Main Project? I was able to download the RFI Meeting Sign-In List from Oct. 25, 2019 but I am not sure if everyone listed is still involved.

Response: *We don't prequalify or short list primes. Due to the COVID-1,9 the Pre-Proposal meeting was held via WebEx and it was non-mandatory. There were 8-9 larger tunneling companies represented. The Planholders List might also be helpful since it has contact information. It is located in the center of the page above the Download header (where all of the documents are located).*

CHANGES TO SPECIFICATIONS

1. Remove the Request for Competitive Sealed Proposals (RFCSP) in its entirety and replace with the revised version attached to the this Addendum, which includes revised dates for the core viewings.
2. Supplementary Instructions to Respondents, SIR-13, F. 2., remove this paragraph and replace with the following:
 2. Respondents shall utilize the fillable evaluation criteria forms provided by SAWS to prepare their response to the RFCSP and should reference the Required Documents Matrix, which identifies which documents are required and won't count toward the page limit. Proposals shall be a **MAXIMUM OF FORTY (40) PRINTED PAGES**, for those pages that do count towards the page limit. Respondents shall respond to each section fully, but are not obligated to use every page set by the limit and are allowed the flexibility to use this page limit as they see fit.
3. Supplementary Instructions to Respondents, insert page SIR-15, Required Documents Matrix, attached to this Addendum.
4. Remove the Respondent Questionnaire in its entirety and replace with the revised version attached to this Addendum, which includes and additional question (#14) requesting Respondents include contract exceptions with their proposal. SAWS will post a native file of the questionnaire on the SAWS website. As a reminder, the form shall not be modified in any way or the Respondent may be found non-responsive.
5. Revise Special Conditions to remove the following language:

From SC7, Section B:

Should the fenced temporary construction area be unused for more than 60 days, and the additional parking lot space is required or the area is deemed necessary for event use by the property owner or property tenant, Contractor shall make provisions to relocate temporary fencing so that additional parking and space is available, until such time as Contractor may need to re-establish construction activities, at no cost to OWNER.

6. Revise Special Conditions to remove the following language:

Delete SC7, Section H in its entirety.

7. Revise Special Conditions to add the following language, as follows:

Add the following Paragraph after SC12, Section D, subsection g:

h. The Contractor shall submit the Dig Permit 30-days in advance of required approval to ensure adequate review time for JBSA. No work will be permitted within JBSA property without an approved Dig Permit.

8. Revise Special Conditions to add the following language, as follows:

Add the following Paragraph after SC12, Section H:

- I. *No vegetative clearing shall occur within JBSA property during the months of March through August to avoid the potential impact to migratory birds.*
- J. *Due to the nature of the landfill area on JBSA property near Highway 90, no heavy, tracked equipment may cross landfill areas or operate before or after rain events to protect the integrity of the clay cap. Any damage to the landfill cap or excavation within the landfill limits will be at the contractor's expense.*
- K. *All spoils and equipment at the Water Tower Shaft site must be stored at a distance from the JBSA boundary fence to reasonably prevent them from being used as a means of entry to JBSA property over the existing boundary fence.*
- L. *Any excess soil from JBSA shall be disposed of at an approved TCEQ facility landfill.*

9. Revise the Hobas Pipe Submittal, included as Appendix A to Special Provision 857, to remove the Curve Summary page and replace with the Curve Summary page attached to this Addendum.

10. Revise Special Specification 02415 to remove the following language:

Delete Section 1.05.A in its entirety.

11. Revise Special Specification 02416 to remove the following language:

Delete Section 1.04.A in its entirety.

CHANGES TO PLANS

1. Sheet G6 – OVERALL QUANTITIES – Revise and replace sheet in its entirety

- Change the quantity for Line No. 47 “38” to the following: “4”
- Change the quantity for Line No. 48 “42” to the following: “76”
- Remove Line No. 101, Item 866A “Existing Sewer Main Television Inspection (8-inch to 24-inch)”
- Remove Line No. 102, Item 866A “Existing Sewer Main Television Inspection (30-inch to 60-inch)”
- Change the Line No. for Line No. 103 with the following: “101”
- Change the Line No. for Line No. 104 with the following: “102”
- Change the Line No. for Line No. 105 with the following: “103”
- Change the Line No. for Line No. 106 with the following: “104”
- Change the Line No. for Line No. 107 with the following: “105”
- Change the Line No. for Line No. 108 with the following: “106”
- Change the Line No. for Line No. 109 with the following: “107”
- Change the Line No. for Line No. 110 with the following: “108”
- Change the Line No. for Line No. 111 with the following: “109”
- Change the Line No. for Line No. 112 with the following: “110”
- Change the Line No. for Line No. 113 with the following: “111”
- Change the Line No. for Line No. 114 with the following: “112”
- Change the Line No. for Line No. 115 with the following: “113”
- Change the Line No. for Line No. 116 with the following: “114”
- Change the Line No. for Line No. 117 with the following: “115”
- Change the Line No. for Line No. 118 with the following: “116”
- Change the Description for line No. 116 “TBM Mobilization (Max 5% of Items 1 to 106)” with the following: “TBM Mobilization (Max 5% of Items 1 to 104)”
- Change the Description for line No. 117 “Mobilization (Max 2% of Items 1 to 106)” with the following: “Mobilization (Max 2% of Items 1 to 104)”
- Change the Description for line No. 118 “Preparing Right-of-Way (Max 1% of Items 1 to 106)” with the following: “Preparing Right-of-Way (Max 1% of Items 1 to 104)”

2. Sheet C1 – 104-INCH SANITARY SEWER PLAN & PROFILE STA. 10+00 TO 13+00 – revise and replace sheet in its entirety
 - Replace F.L. 24” IN (NW) value “623.85” in the profile label for Manhole A0 with the following: “622.10”
3. Sheet G34 – ABANDONMENT PLAN (SHEET 1 OF 4)
 - In the Estimated Quantities box, replace both Item Nos. for Items 866A with the following: “866”
4. Sheet G35 – ABANDONMENT PLAN (SHEET 2 OF 4)
 - In the Estimated Quantities box, replace both Item Nos. for Items 866A with the following: “866”
5. Sheet G36 – ABANDONMENT PLAN (SHEET 3 OF 4)
 - In the Estimated Quantities box, replace both Item Nos. for Items 866A with the following: “866”
6. Sheet G37 – ABANDONMENT PLAN (SHEET 4 OF 4)
 - In the Estimated Quantities box, replace Item No. for Item 866A with the following: “866”
7. Sheet G39 – SUGGESTED BYPASS PUMPING LAYOUT (SHEET 1 OF 5) – Revise and replace sheet in its entirety.
 - Replace the title for the Bypass Flow Data table “Suction MH A1” with the following: “Suction Pit”
 - Replace label in plan view “Prop Suction Pit (MH 80096)” with the following: “Prop Suction Pit”
8. Sheet G42 – SUGGESTED BYPASS PUMPING LAYOUT (SHEET 4 OF 5) – Revise and replace sheet in its entirety.
 - Replace label in plan view “Prop 4’ Dia Watertight Suction MH (Doghouse) (NSPI) Rim Elev: 700.15 (Match Existing) Inv Elev: 679.20” with the following: “Prop 4’ Dia Watertight Suction MH (Doghouse) (NSPI) Rim Elev: 700.15 (Match Existing) Inv Elev: 686.51”
 - Replace label in plan view “Prop Temporary 4’ Dia Watertight MH (NSPI) Rim Elev: 700.00 (Match Existing) Inv Elev: 678.69” with the following: “Prop Temporary 4’ Dia Watertight MH (NSPI) Rim Elev: 700.00 (Match Existing) Inv Elev: 685.94”
9. Sheet C83 – SANITARY SEWER PLAN & PROFILE LINE H AND LINE I – Revise and replace sheet in its entirety.
 - In the Estimated Quantities box, replace the quantity for Item No. 848A, 24-Inch PVC Gravity Sanitary Sewer Pipe (ASTM F679) (6’ – 10’ Depth) “ 37.89” with the following: “3.69”
 - In the Estimated Quantities box, replace the quantity for Item No. 848A, 24-Inch PVC Gravity Sanitary Sewer Pipe (ASTM F679) (10’ – 14’ Depth) “ 41.48” with the following: “75.68”
 - Replace the flow line label on the Line I profile view “FL 623.84” with the following: “FL 622.10”
 - Replace the flow line label on the Line I profile view “FL 624.20” with the following: “FL 622.35”
 - Replace the flow line label on the Line I profile view “FL 624.33” with the following: “FL 622.50”
 - Replace Line I profile view label of downstream manhole FL 24” IN elevation “623.85” with the following: “622.10”
 - Replace Line I profile view label of metering manhole FL 24” IN elevation “624.15” with the following: “622.34”
 - Replace Line I profile view label of metering manhole FL 24” OUT elevation “624.05” with the following: “622.24”
 - Replace Line I profile view label of Manhole I2 FL 24” IN elevation “624.47” with the following: “622.60”
 - Replace Line I profile view label of Manhole I2 FL 24” OUT elevation “624.35” with the following: “622.50”
10. Sheet C84 – 24-INCH SANITARY SEWER SLIP LINE – Revise and replace sheet in its entirety.
 - Label of Begin Prop. 24” Slip Line, replace Ex. FL 54” “623.2 +/-” with the following: “622.3 +/-”
 - Label of Begin Prop. 24” Slip Line, replace Prop. FL 24” “624.4 +/-” with the following: “622.6 +/-”
 - Label of End Prop. 24” Slip Line, replace Ex. FL 54” “623.5 +/-” with the following: “622.6 +/-”
 - Label of End Prop. 24” Slip Line, replace Prop. FL 24” “625.3 +/-” with the following: “623.1 +/-”
11. Sheet C86 – SEWER GENERAL DETAILS (SHEET 1 OF 3) – Revise and replace sheet in its entirety.
 - Replace sheet title “C86 SEWER GENERAL DETAILS (SHEET 1 OF 3)” with the following: “C86 SEWER GENERAL DETAILS (SHEET 1 OF 4)”.
 - Replace note in the detail for Modified Tee-Base Fiberglass Manhole “Fiberglass (FRP) Sewer Pipe Meeting The Requirements of ASTM D3743 for Direct Bury Installation” with the following: “Fiberglass (FRP) Sewer Pipe Meeting The Requirements of ASTM D3262 for Direct Bury Installation”
 - Replace note in the detail for Modified Tee-Base Fiberglass Manhole “Fiberglass (FRP) Pipe Joints Using Flexible Elastomeric Seals Meeting The Requirements of ASTM D4151” with the following: “Fiberglass (FRP) Pipe Joints Using Flexible Elastomeric Seals Meeting The Requirements of ASTM D4161”

CLARIFICATIONS

1. For the purposes of bidding, Contractor shall assume generators are required for any power supply at the sites of Shafts #6-9. Power supply at these locations is likely not feasible due to lack of nearby power supply. The contractor may still elect to request power from CPS at those shafts at the Contractor's expense. Any delays in schedule associated with the supplying of power to these shaft locations will be incurred by the Contractor and will not be considered as project related delays. Shafts #1-5 will be coordinated with CPS by the Contractor to supply the necessary power.

END OF ADDENDUM 5

This Addendum is 31 pages in its entirety, including attachments.

Attachments:

- Request for Competitive Sealed Proposals (1 page)
- Required Document Matrix (1 Page)
- Respondent Questionnaire (4 Pages)
- Non-Mandatory WebEx Only Meeting Logins Partial List (2 Pages)
- Revised Pipe Submittal Curve Table (1 Page)
- Plan Sheets (G6, C1, G39, G42, C83, C84, C86)



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



REQUEST FOR COMPETITIVE SEALED PROPOSALS
(RFCSP)

Solicitation No. CO-00317

Sealed proposals are requested by the San Antonio Water System for the construction of approximately 29,000 LF of 60-inch, 78-inch, and 104-inch gravity sewer main via tunneling and short segments of open cut, as well as, the construction of 16-foot diameter access shafts with depths ranging from 40 to 140-feet deep, and including the abandonment of existing 48 and 54-inch gravity sewer mains for the W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project, SAWS Job No. 19-4519.

To view additional project information, as well as obtain the plans and specifications for this project, visit our website located at www.saws.org and click on the Business Center. Then select Bidder, Consultant, and Vendor Registration, which is located on the left-hand side of the screen. Select the Register Now button and proceed with registration.

For difficulties downloading plans and specifications, contact the Contracting Department at 210-233-3341.

A **non-mandatory** pre-proposal meeting will be held at **2:00 PM (CT) on March 18, 2020**, available via WebEx only. Attendees are advised to join the WebEx meeting at least 30 minutes prior. See WebEx Instructions for login/call-in details. WebEx also allows for video and audio, however for audio only a call in number has been provided. The PowerPoint presentation will be available for download before the meeting starts and a full recording of the meeting will be available for download following the meeting.

Viewings of the geotechnical core samples will be provided. The dates for viewings will be April 22 and April 24. Registration for the viewings will be available by contacting Florinda Gonzales via email at Florinda.Gonzales@saws.org.

For questions regarding this solicitation, technical questions or additional information, please contact Florinda Gonzales, in writing via email to: Florinda.Gonzales@saws.org or by fax to (210) 233-5415 until **10:00 AM(CT) on April 1, 2020**. Answers to the questions will be posted to the website by **4:00 PM (CT) on April 9, 2020** as a separate document or included as part of an addendum. Be advised that firms responding to this RFCSP (Respondents) are prohibited from communicating with any other SAWS staff, the Consultant, the Developer, or COSA officials regarding this RFCSP up until the contract is awarded as outlined in the Instructions to Respondents.

Sealed proposals will be received by Counter Services in the Customer Service office across from the Guard Station, 2800 U.S. Hwy 281 North, Customer Center Building, San Antonio, Texas 78212, **until 10:00 AM (CT), May 1, 2020**. Proposals will then be publicly opened and read aloud by Contract Administration in CR-C137, Customer Center Building, 2800 U.S. Hwy 281 North, San Antonio, Texas. Each proposal must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total proposal price.

Required Documents Matrix

Proposal Packet Items	Ref. Page(s)	Ref. Section	Included in Overall Page Limit <u>40 Pages Total</u> (Yes/No)	Forms Provided in RFCSP
Cover Letter, Tabs, Proposal Table of Contents, etc.			NO	Cover letter (optional); all others Respondent to provide
Bid Bond/Cashier's Check	IR-2 to IR-5		NO	Respondent to provide
Statement on President's Executive Order	IR-8		NO	Statement on President's Executive Order Acknowledgement
Proposal Checklist	CH - 1		NO	Proposal Checklist Form
Team Qualifications and Experience				
Team Info.	SIR-3	E.1.a.i - vi	YES	Evaluation Criteria Form
Organizational Chart	SIR-3	E.1.a.vii	YES	1 page limit (size 8.5"x11" or 11"x17")
Key Personnel Roles	SIR-4	E.1.a.i.viii	YES	Evaluation Criteria Form
Financial Statement	SIR-4 to SIR-5	E.1.a.ix	NO	Evaluation Criteria Form
Team Resumes	SIR-5	E.1.b	NO	1 page per person (size 8.5" x 11")
Team Safety Info	SIR-5 to SIR-6	E.1.c	YES	Evaluation Criteria Form
Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget				
Prime's Past Projects	SIR-6 to SIR-7	E.2.a.i - ii	YES	Evaluation Criteria Form
Current and Recently	SIR-7	E.2.a.iii	NO	Evaluation Criteria Form
All Current Key Personnel Project	SIR-7	E.2.a.iv	NO	Evaluation Criteria Form
Explain Commitments	SIR-7	E.2.a.v	YES	Evaluation Criteria Form
Key Subcontractor(s) Projects	SIR-7 to SIR-8	E.2.b.i - ii	NO	Evaluation Criteria Form
Project Approach, Delivery Schedule and Availability				
Approach	SIR-8 to SIR-9	E.3.a	YES	Evaluation Criteria Form
Schedule	SIR-9	E.3.b	YES	Evaluation Criteria Form
Availability	SIR-9 to SIR-10	E.3.c	YES	Evaluation Criteria Form
Acknowledgement Form	AF-1		NO	Acknowledgement Form
Respondent Questionnaire	RQ-1 to RQ-3		NO	Respondent Questionnaire Form
Price Proposal	PP-1		NO	Price Proposal Form
Proposal Certification	PC-1		NO	Proposal Certification Form
Good Faith Effort Plan (GFEP)	GFEP-1		NO	Good Faith Effort Plan Form
SMWVB Certifications	SIR-10 to SIR-13		NO	Optional; if including Respondent to provide
Conflict of Interest Questionnaire (CIQ)	Form CIQ		NO	Conflict of Interest Questionnaire Form
W-9	Form W-9		NO	W-9 Form
Proof of Insurability	WC1 to WC2 and ICS		NO	Respondent to provide
Notes: 1. Respondent shall check the SAWS website to verify the number of Addendums and ensure the correct version of the forms are being utilized prior to submitting their proposal. 2. For sections where no page limit applies as indicated on this matrix, an appendix may be used if desired.				



RESPONDENT QUESTIONNAIRE

PROJECT NAME: W6 Upper Segment: HWY 90 to SW Military Drive Sewer Main Project

Instructions: The Respondent Questionnaire is a required questionnaire. Complete the questionnaire by inserting the requested information. Do not modify or delete the questions.

GENERAL INFORMATION

1. **Respondent Information:** Provide the following information regarding the Respondent.
(NOTE: Co-Respondents are two or more entities proposing as a team or joint venture with each signing the Agreement, if awarded. Sub-contractors are not Co-Respondents and should not be identified here. If this proposal includes Co-Respondents, provide the required information in this Item #1 for each Co-Respondent by copying and inserting an additional block(s) before Item #2.)

Respondent Name: _____

(NOTE: Give exact legal name as it will appear on the contract, if awarded.)

Principal Address: _____

City: _____ State: _____ Zip Code: _____

Telephone No. _____ Fax No: _____

Social Security Number or Federal Employer Identification Number: _____

2. **Contact Information:** List the one person who SAWS may contact concerning your proposal or setting dates for meetings.

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Telephone No. _____ Fax No: _____

Email: _____

3. Identify the principal contact person authorized to commit the Respondent to a contractual agreement.

(Note: If a Respondent is a Joint Venture entity that currently exists and has the financial capability of completing this project solely based on the assets of the Joint Venture, the questions 4,5,6,7,8,9, and 10 would pertain only to the joint entity. If the Joint Venture entity is being created for this project, then those questions pertain to the co-respondent members.)

4. Does Respondent anticipate any mergers, transfer of organization ownership, management reorganization, or departure of key personnel within the next twelve (12) months?

Yes No

5. Is Respondent authorized and/or licensed to do business in Texas?

Yes No If "Yes", list authorizations/licenses.

6. **Affirmative Action**—Respondent agrees to adhere to the EEO requirements contained in this RFCSP ?

Yes No If "No", state reason.

7. **Debarment/Suspension Information:** Has the Respondent or any of its principals been debarred or suspended from contracting with any public entity?

Yes No If "Yes", identify the public entity and the name and current phone number of a representative of the public entity familiar with the debarment or suspension, and state the reason for or circumstances surrounding the debarment or suspension, including but not limited to the period of time for such debarment or suspension.

7. **Bankruptcy Information:** Has the Respondent ever been declared bankrupt or filed for protection from creditors under state or federal proceedings?

Yes No If "Yes", state the date, court, jurisdiction, cause number, amount of liabilities and amount of assets.

8. Provide any other names under which Respondent has operated within the last 10 years.

9. **Litigation Disclosure:** Respond to each of the questions below by checking the appropriate box. Failure to fully and truthfully disclose the information required in the Litigation Disclosure questions may result in the disqualification of your proposal from consideration or termination of the contract, once awarded.

a. Have you or any member of your Firm or Team to be assigned to this project ever been indicted or convicted of a felony or misdemeanor greater than a Class C in the last five (5) years?

Yes No

b. Have you or any member of your Firm or Team to be assigned to this project been terminated (for cause or otherwise) from any work being performed for the San Antonio Water System or any other Federal, State or Local Government, or Private Entity?

Yes No

- c. Have you or any member of your Firm or Team to be assigned to this project been involved in any claim or litigation with the San Antonio Water System or any other Federal, State or Local Government, or Private Entity during the last ten (10) years?

Yes No

If you have answered "Yes" to any of the above questions, please indicate the name(s) of the person(s), the nature, and the status and/or outcome of the information, indictment, conviction, termination, claim or litigation, as applicable. Any such information should be provided on a separate page, attached to this form and submitted with your proposal.

11. **Non-disclosure:** No information obtained by Respondent from SAWS shall be disclosed by Respondent to any third party. In the event Respondent is subject to the Texas Public Information Act, upon receipt of a request for any information by Respondent, Respondent shall provide notice to SAWS of the request along with a copy of the request, and give SAWS the opportunity to respond to the request prior to its release by Respondent.

No Lobbying and Compliance with Law. During the selection process for the project named in this RFCSP, Respondent agrees to comply with all applicable laws and regulations, including but not limited to restrictions against direct or indirect lobbying of public officials. Respondent agrees not to make or permit to be made any improper payments, or to perform any unlawful acts.

This agreement shall be construed to be enforceable to the maximum extent permitted by law.

Failure to complete this question or comply with its terms may subject Respondent to elimination from the selection process at any time.

Does the Respondent agree to the above?

Yes No

12. **Security Procedures:** Respondent acknowledges having read the security procedures and understands the requirements. Respondent is prepared to perform at their own expense background security checks on their employees, or the employees of their consultants or sub-consultants if requested by SAWS.

Yes No

13. **Addendums:** Each Respondent is required to acknowledge receipt of all addendums.

None Yes If "Yes", Identify.

14. **Contract Terms and Conditions:** Respondent acknowledges having read the Contract Documents including the plans and specifications for this project and modifications to the contract terms and conditions within the special and supplemental conditions to this RFCSP. By responding to this RFCSP, Respondent agrees to these terms and conditions.

No Exceptions Exceptions If "Exceptions", they must be submitted with the proposal. Respondents shall submit exceptions with proposed alternative language to SAWS as an

attachment accompanying this questionnaire.

Exceptions will not be accepted after the proposal due date and time.

The information provided above is true and accurate to the best of my knowledge. Furthermore, we understand that failure to complete the Respondent Questionnaire may subject this firm to elimination from the selection process.

Signature

Date

Printed Name

Title

**W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main Project
 Non-Mandatory WebEx Only Meeting
 Wednesday, March 18, 2020 - 2:00 pm**

	Print Name	Company
1	Gail Hamrick - Pigg	SAWS
2	Chris Mason	SAWS
3	Cristina De La Garza	SAWS
4	Diana Woltersdorf	SAWS
5	Florinda Gonzales	SAWS
6	Marisol Robles	SAWS
7	Ruben Cruz	SAWS
8	Gerardo Gomez	SAWS
9	Andrea Beymer	SAWS
10	Jeff Farnsworth	Kimley-Horn
11	Danny	Kimley-Horn
12	Gaby	
13	Lance Jackson	
14	Sanjeer Yogendran	
15	Jawid Stanekzai	
16		Black
17	Josh Suffel	
18	John Teahen	
19	Jacob Hunter	
20	Bryan Swanson	Bor Tun Co
21	Ross Webb	
22	Brian	
23	Paul Headland	
24	Josh Morton	Granite
25	Zach West	
26	Brett Zernich	Traylor
27	Tim McQueary	
28	Mike Garbeth	
29	Anjan Paila	
30	Laurel Almeida	
31	Rick Carter	
32	Henry Leighton	
33	Bill Evans	Tenoch Distribution
34		D Guerra
35	Mike Jatczak	
36	Ashley Heckman	
37	Kemp Lewis	
38	Erica McGlynn	McNally/Shea
39	Juan Arriaga	
40	Mike Roach	Traylor - Sundt
41	Ryan Holloway	Traylor-Smith
42	Casey Smith	
43	Chad Yount	
44	Paul Castro	
45	Stephen Liu	
46	Jason Miller	Midwest Mole, Inc.
47		Rock Engineering & Testing Laboratory
48	Abel Ramirez	
49	Chris Boentees	
50	Ali Ebrahimi	
51	Brad Tatsch	
52	Nathan Abraham	Southland Constrction
53	Cristina Onate	MAPEI
54	Conner Wilson	

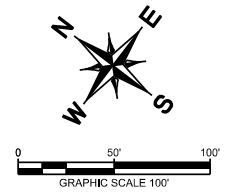
	Print Name	Company
55	Farouq Esmail	
56	Bill Cheathan	MAPEI UTT
57	Nany Nutbrock	
58	Marc Harren	Michels
59	Chelsea Wisniske	
60	Bob Rautenberg	
61	Lance Tilander	
62	Monique Mead	
63	Pete Schraufingel	
64	K.C. Hildebrand	
65	Kendell NeSmith	
66	Cesar Gonzalez	
67	Dale	
68	Andrew McNally	
69	Asheton Macleod	Michels
70	Zach Forth	
71	Andy Holman	
72	John Carlson	
73	Zach	
77	Kyle	
78	Francisco	
79	KD Allums	
80	Kevin Wilson	Keller North America



W-6 Upper Segment: Hwy 90 to SW Military Drive Sewer Main
 San Antonio, TX
 Curve Summary - R1 (3-18-20)

Pipe Size	Joint Type	Max Gap Joint (in.)	100% Max Joint Angle (degrees)	80% Max Joint Angle (degrees)
104	FR	2	1.06	0.85
60	FR	1.36	1.24	0.99

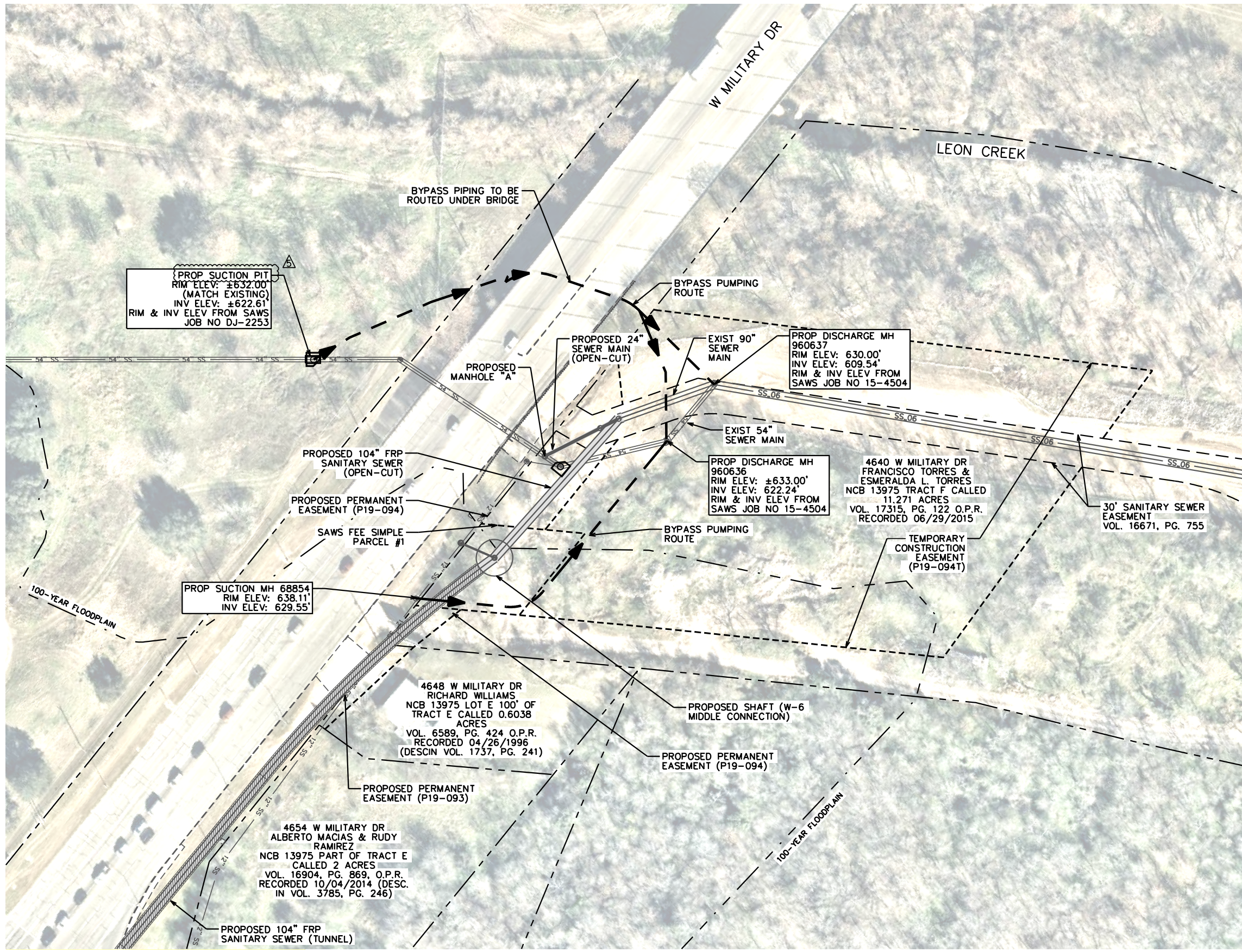
Curve #	Pipe Size (in.)	Radius (ft)	PC	PT	Length (ft.)	Curve Angle (Degrees)	Average Pipe Length (Flush Reline Joint @ 80%)	No. pipes (Rounded Up)	Degrees Deflection per Joint	% of Full Jt. Allowance
1	104	1200	11+82.69	14+88.87	306.18	14.62	10	31	0.47	0.44
2	104	1200	27+19.28	29+58.11	238.83	11.4	10	24	0.48	0.45
3	104	1200	32+75.58	35+76.40	300.82	14.36	10	30	0.48	0.45
4	104	1200	35+81.85	38+95.82	313.97	14.99	10	32	0.47	0.44
5	104	1200	41+94.22	43+29.15	134.93	6.44	10	14	0.46	0.43
6	104	1200	66+34.58	68+59.81	225.23	10.75	10	23	0.47	0.44
7	104	1200	68+59.81	73+10.16	450.35	21.5	10	46	0.47	0.44
8	104	1200	73+10.16	75+35.42	225.26	10.76	10	23	0.47	0.44
9	104	2290	108+51.35	120+93.73	1242.38	31.08	20	63	0.49	0.46
10	104	1200	199+31.50	202+90.75	359.25	17.15	10	36	0.49	0.46
11	104	1200	204+88.19	221+28.66	1640.47	78.33	10	165	0.47	0.45
12	104	1200	247+30.39	248+84.12	153.73	7.34	10	16	0.46	0.43
13	104	1200	248+84.12	250+22.20	138.08	6.59	10	14	0.47	0.44
14	104	1200	254+39.09	254+60.86	21.79	1.04	10	3	0.35	0.33
15	104	1200	268+51.66	271+67.61	315.95	15.09	10	32	0.47	0.44
16	60	1200	273+64.74	277+33.57	368.83	17.61	20	37	0.48	0.45
17	60	1200	291+77.92	293+18.96	141.04	6.73	20	15	0.45	0.42
18	60	600	296+01.25	298+66.28	265.03	25.31	10	27	0.94	0.76



BYPASS FLOW DATA

SUCTION PIT		
SIZE	54	INCHES
ADWF	38.56	MGD
PDWF	51.90	MGD
PWWF	70.00	MGD

- NOTES:**
1. BYPASS PUMPING OPERATIONS WITHIN JBSA PROPERTY SHOULD BE LIMITED AS MUCH AS POSSIBLE BY ONLY TAKING PLACE DURING THE TIME WHEN THE FINAL SEGMENTS OF OPEN CUT AND SUIPLINE MAIN INSTALLATION ARE TAKING PLACE.
 2. SEE SHEET C84 FOR TEMPORARY JBSA FENCE RELOCATION LIMITS.



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	
PROPOSED EASEMENT LINE	
CONCEPTUAL BYPASS ROUTE	



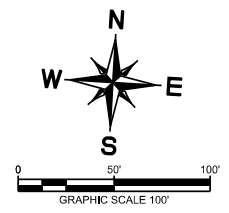
K. FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING
10001 Reunion Place
Suite 404
SAN ANTONIO, Texas 78216
P - 210.491.2391 F - 512.338.1784
TBPE Firm #6535
www.kfriese.com

No.	Revision	By	Date
5	ADDENDUM NO. 5	CB	3/19/2020

<p>SAN ANTONIO WATER SYSTEM</p>	<p>W-6 UPPER SEGMENT: HWY 90 TO SW MILITARY DR SEWER MAIN</p>
	<p>SHEET SUGGESTED BYPASS PUMPING LAYOUT (SHEET 1 OF 5)</p>

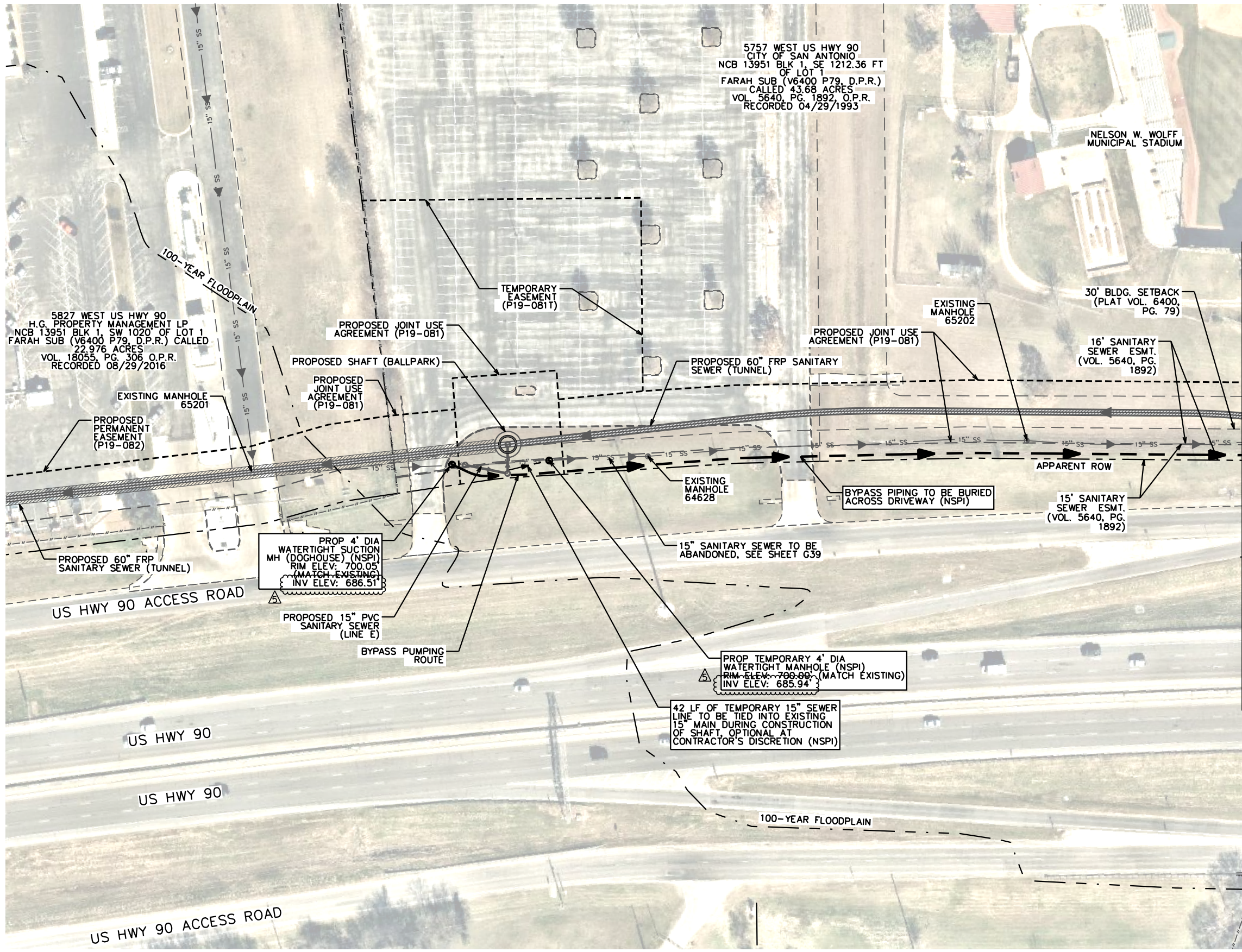
DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G39
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		

X:\Projects\0647-SAWS - W6 Upper Segment\DCN\Sheets\0647_BYPASS_05_PEARSAWALL_RD.dgn modified by dchilarescu on 3/20/2020 - 10:08:09 AM



NOTES:

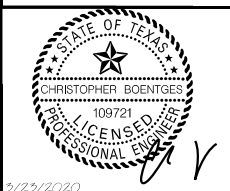
- THE INTENT OF THE STATIONARY BYPASS SET-UP IS TO ALLOW THE CONTRACTOR TO INSTALL THE PROPOSED 15-INCH SEWER MAIN IN ADDITION TO INSTALLING THE TEMPORARY SEWER LINE. ONCE THE TEMPORARY SEWER LINE IS IN PLACE, THE CONTRACTOR CAN REMOVE THE STATIONARY BYPASS AND ALLOW SEWER FLOWS TO CONTINUE THROUGH THE 15-INCH DURING THE SHAFT AND TUNNEL CONSTRUCTION ACTIVITIES.



MATCHLINE A
SEE SHEET G43

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	
PROPOSED EASEMENT LINE	
CONCEPTUAL BYPASS ROUTE	



K. FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING
10001 Reunion Place
Suite 404
SAN ANTONIO, Texas 78216
P - 210.491.2391 F - 512.338.1784
TBPE Firm #6535
www.kfriese.com

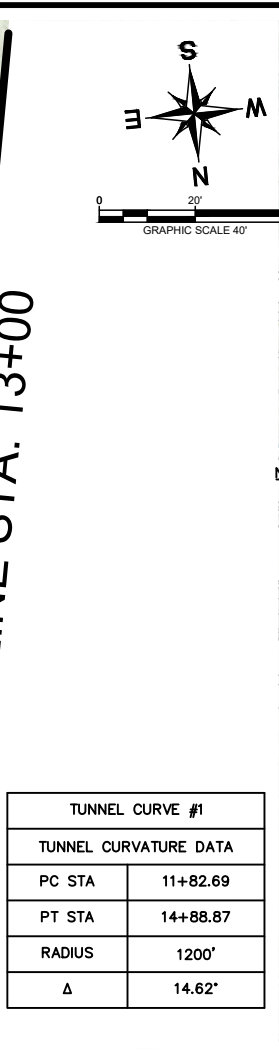
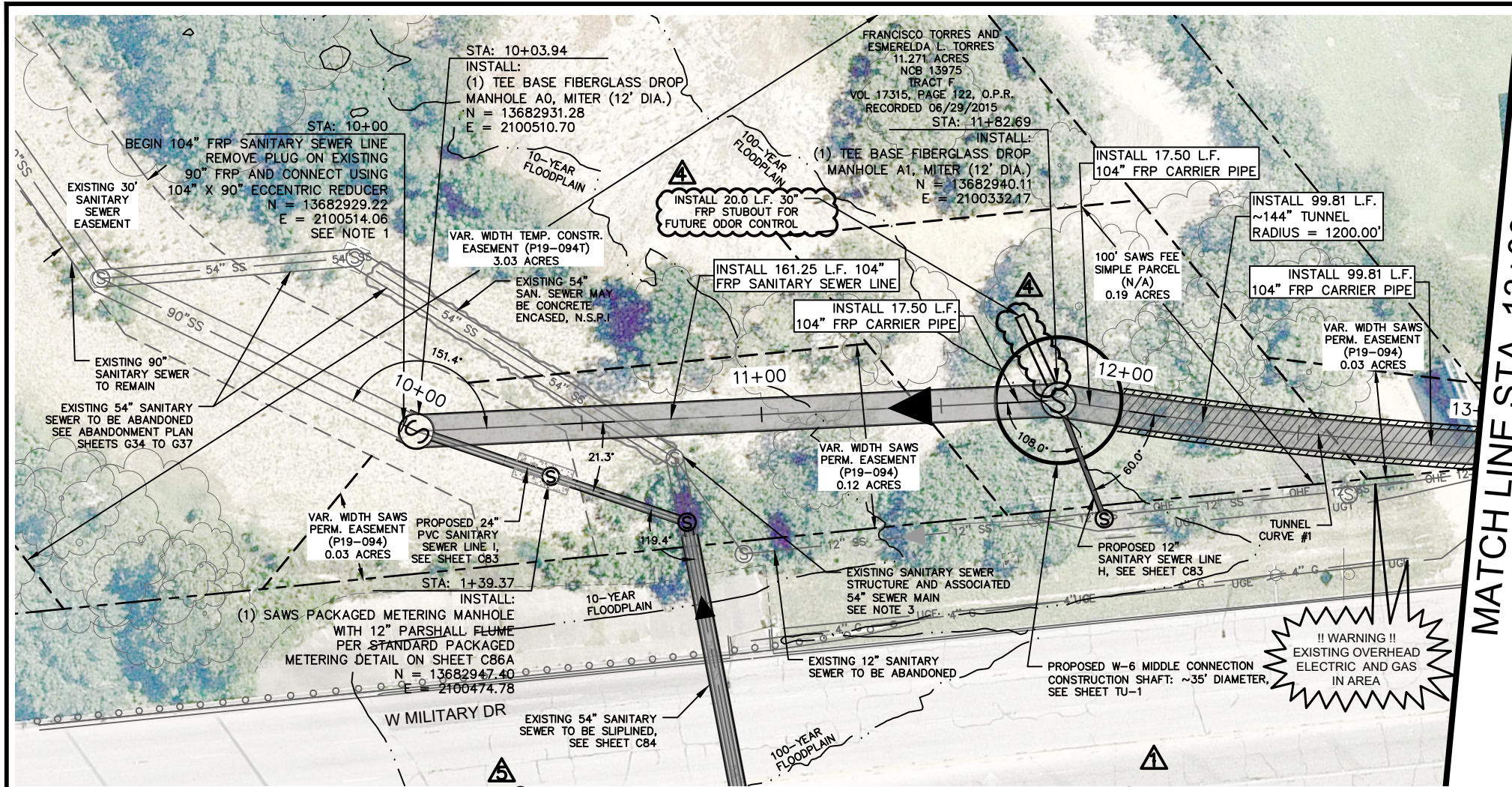
No.	Revision	By	Date
1	ADDENDUM NO. 5	CB	3/23/2020

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

SHEET
SUGGESTED BYPASS
PUMPING LAYOUT
(SHEET 4 OF 5)

DATE: FEBRUARY 2020	SAWS PROJECT NO. 19-4519	SHEET NO. G42
DESIGN: KFA	KHA PROJECT NO. 068665052	
DRAWN: KFA		
CHECKED: KFA		

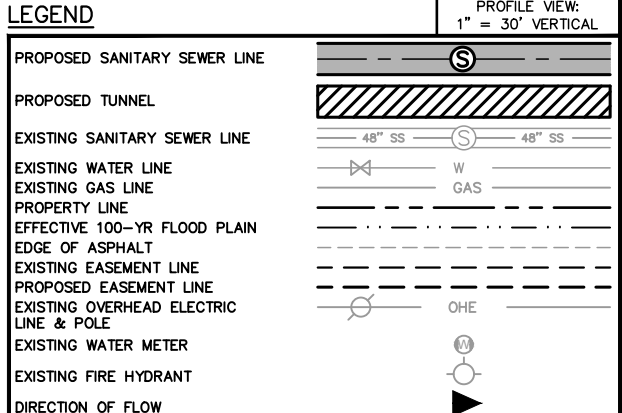
X:\Projects\0647-SAWS - W6 Upper Segment\DCN\Sheets\0647_BYPASS_01_CALLAGHAN RD.dgn modified by dchitarescu on 3/23/2020 - 5:19:42 PM



ITEM NO.	DESCRIPTION	UNIT	QUANTITY
550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	165.19
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
857	30-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (4'-6" DEPTH)	LF	20
857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (22'-25" DEPTH)	LF	39.39
857	104-INCH FRP (ASTM D-3262) (SN 72) SANITARY SEWER LINE (25'-30" DEPTH)	LF	74.88
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) (SN 72) SANITARY SEWER)	LF	134.81
02440	GENERAL SHAFT REQUIREMENTS (W-6 MIDDLE SEGMENT SHAFT)	LS	1
866	SEWER MAIN TELEVISION INSPECTION (78-INCH TO 104-INCH)	LF	300

- NOTES:
- 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.
 - 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.
 - 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.
 - 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-1.
 - 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.

STATION	ELEVATION	DESCRIPTION	FL
710			
700			
690			
680			
670			
660			
650			
640			
630			
620			
610			
600			
590			
580			



3/27/2020

Kimley-Horn
Texas Registered Firm, No. F-928
601 NW Loop 410 Suite 350 San Antonio, TX 78216
Tel No. 210-541-9166 Fax No. 210-541-8699

No.	Revision	By	Date
Δ	ADDENDUM NO. 1	JAF	3/6/2020
Δ	ADDENDUM NO. 4	JAF	3/18/2020
Δ	ADDENDUM NO. 5	JAF	3/27/2020

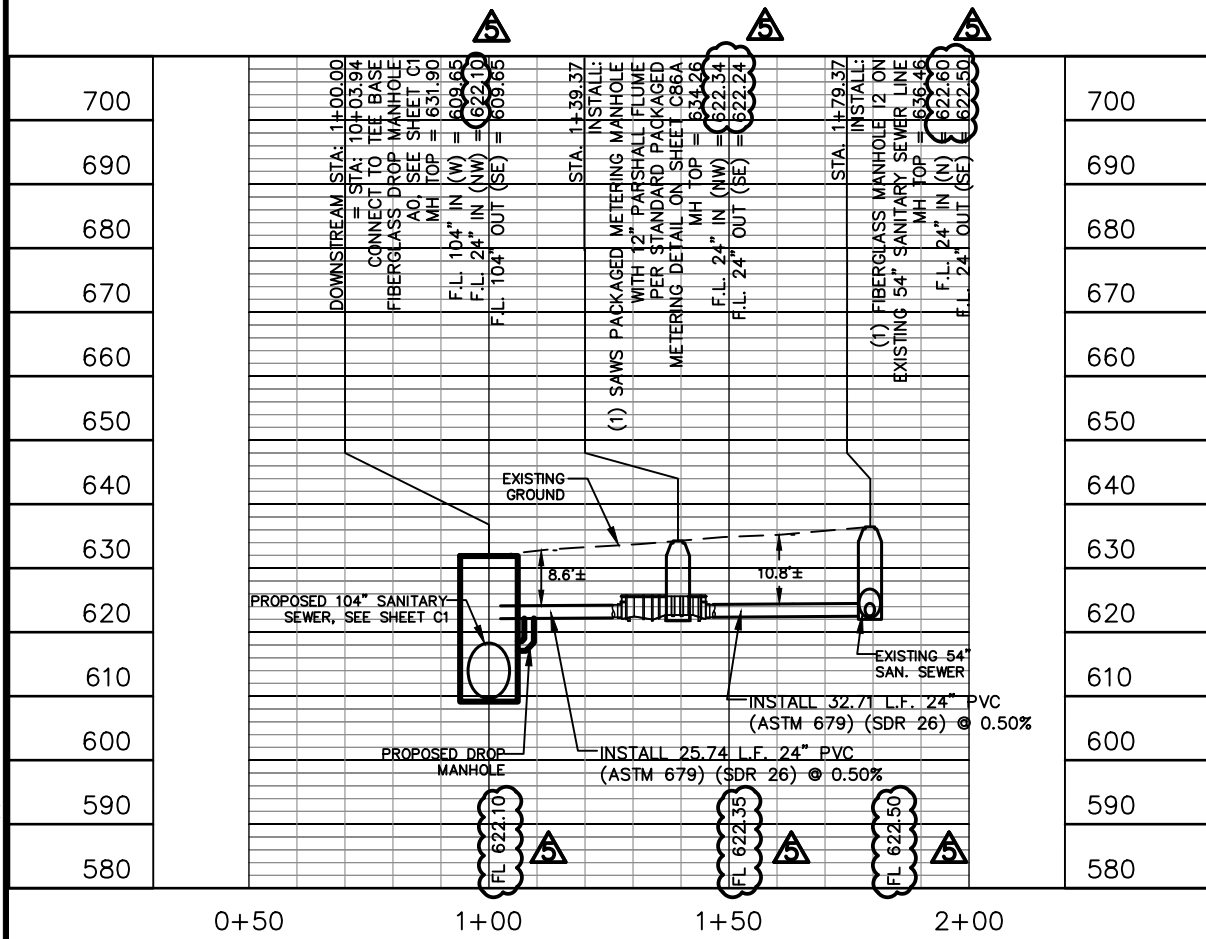
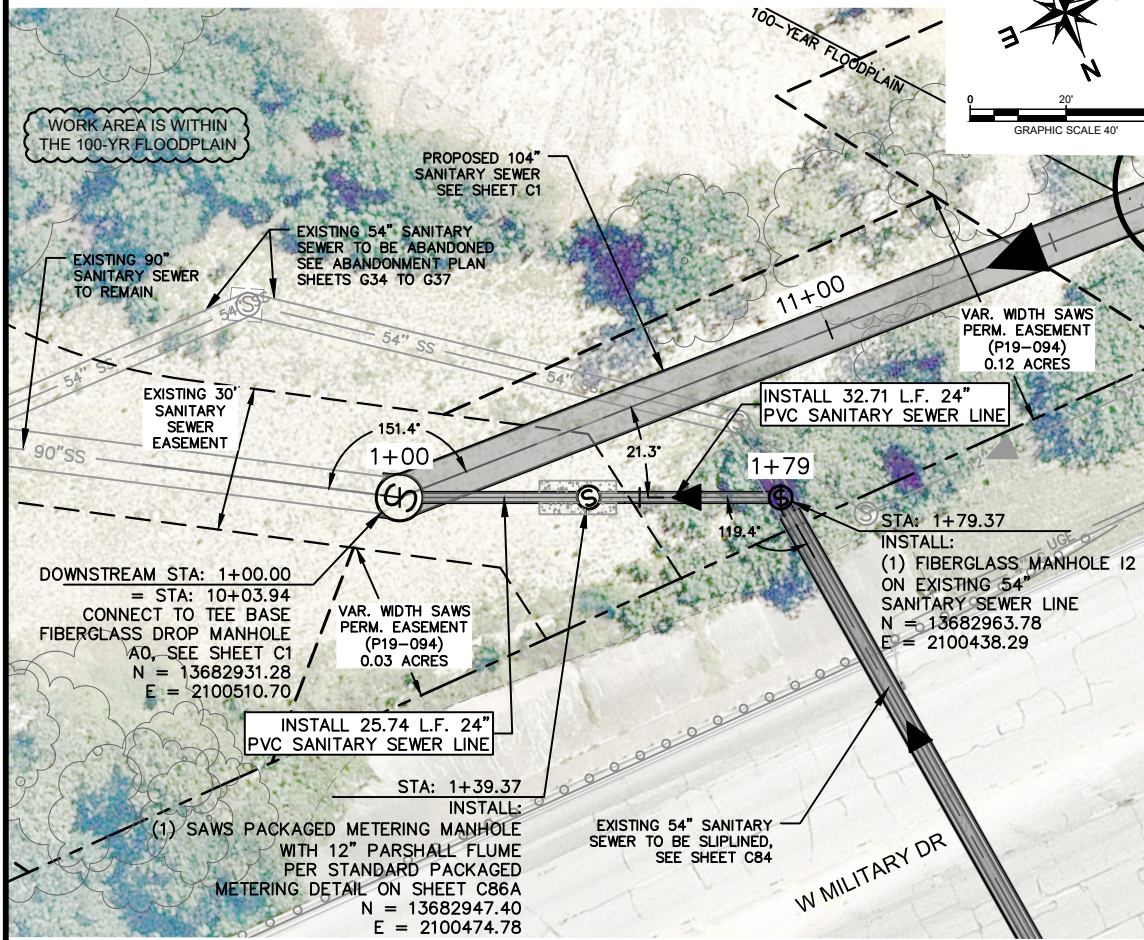
**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

**104-INCH SANITARY
SEWER PLAN & PROFILE
STA. 10+00 TO STA.
13+00**

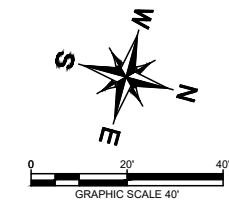
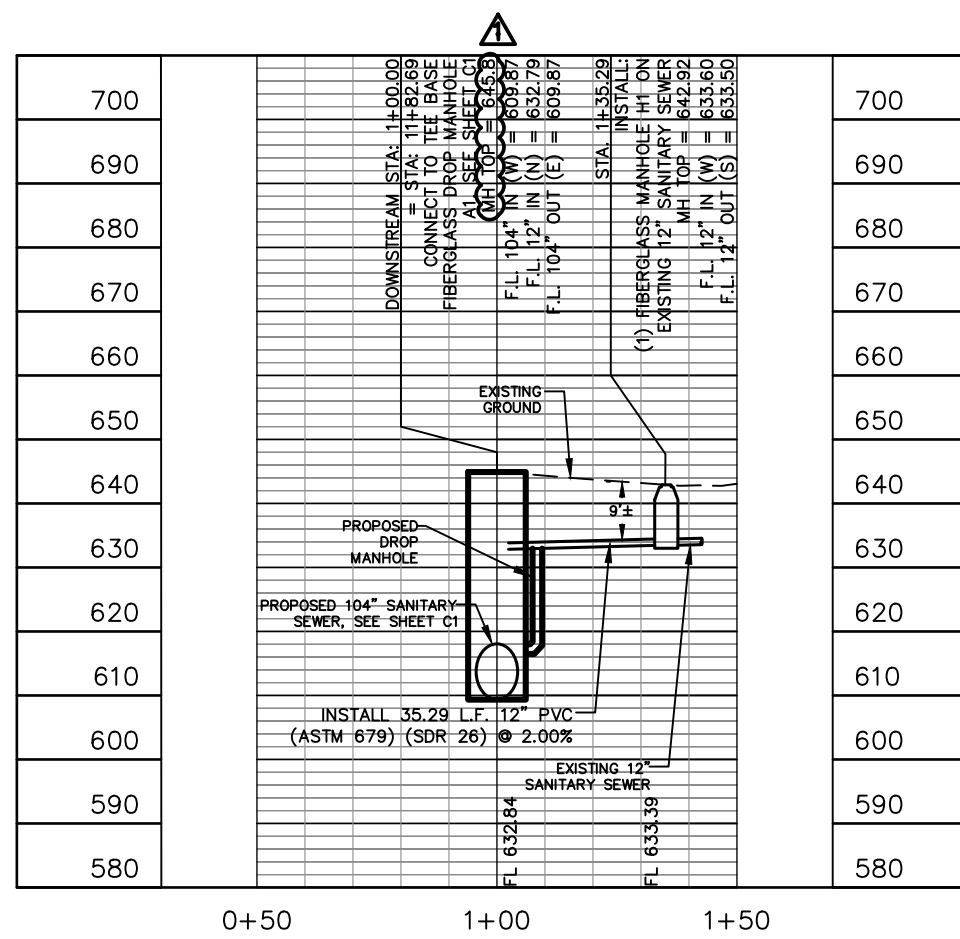
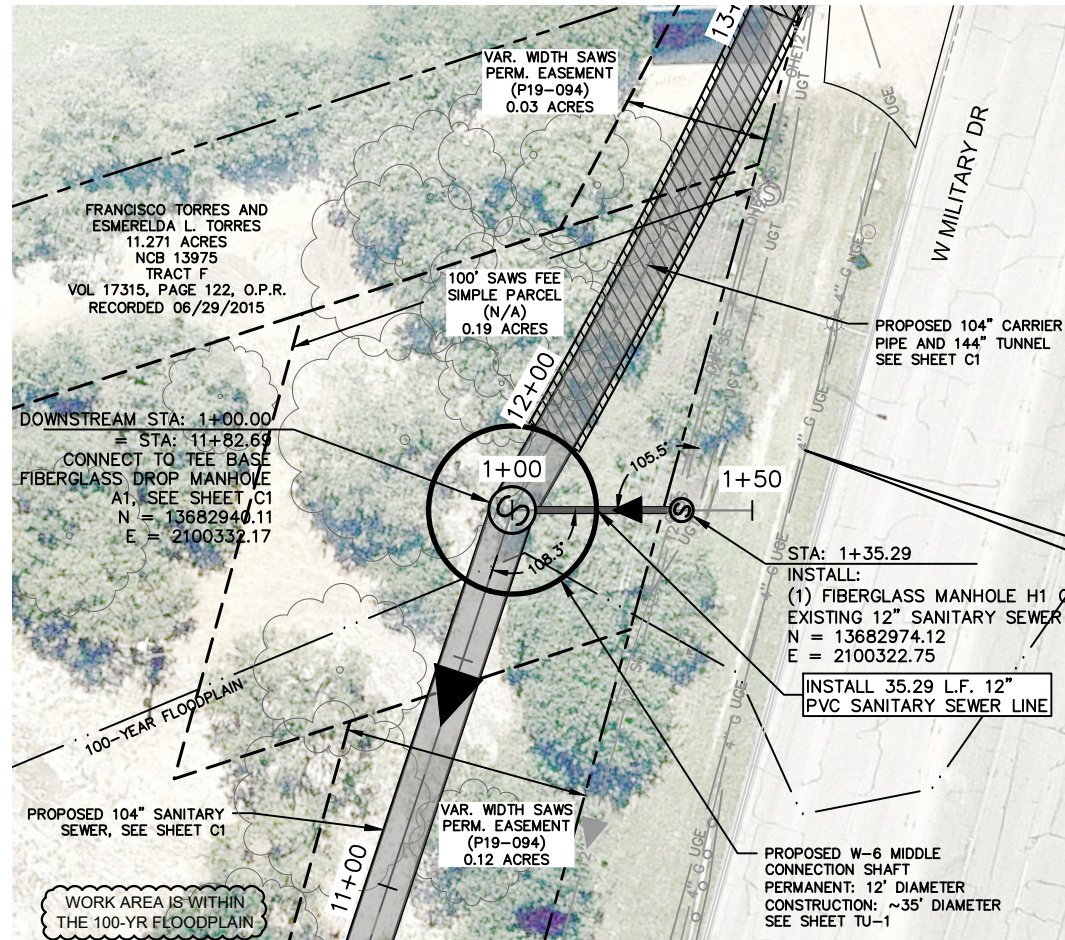
DATE: MARCH 2020	SAWS PROJECT NO. 19-4519	SHEET NO. C1
DESIGN: JKN	KHA PROJECT NO. 068665052	
DRAWN: CRW		
CHECKED: JAF		

PLOTTED BY: DWG N NAME: 2/28/20 2:28 PM
 WILSON CONNER 3/26/2020 9:25 PM
 K:\SNA UTILITIES\068665052\CADD\SHEETS\104-INCH SANITARY SEWER PLAN & PROFILE STA. 10+00 TO STA. 29+00.DWG
 2/28/20 2:28 PM

LINE I



LINE H

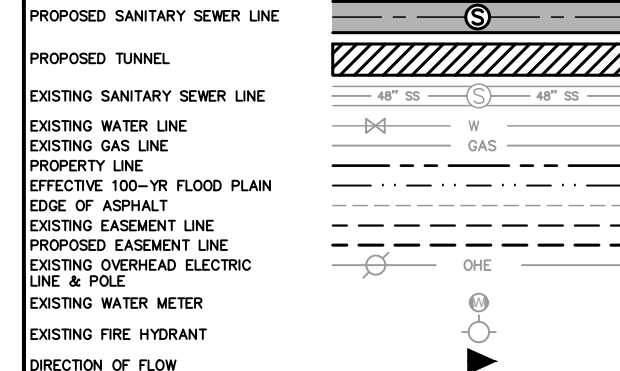


ITEM NO.	DESCRIPTION	UNIT	QUANTITY
550.1	TRENCH EXCAVATION SAFETY PROTECTION (COSA SPEC)	LF	97.16
848A	12" INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (6'-10" DEPTH)	LF	8.28
848A	12" INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM 2241) (10'-14" DEPTH)	LF	27.01
848A	24" INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (6'-10" DEPTH)	LF	3.69
848A	24" INCH PVC GRAVITY SANITARY SEWER PIPE (ASTM F679) (10'-14" DEPTH)	LF	75.68
853A	FIBER-REINFORCED SANITARY SEWER MANHOLE (4' DIAMETER)	EA	2
853A	EXTRA DEPTH (>6) FIBERGLASS MANHOLE (4' DIAMETER)	VF	20.7
866	SEWER MAIN TELEVISION INSPECTION (8-INCH TO 24-INCH)	LF	114.66
11310	PACKAGE METERING MANHOLE	LS	1

!! WARNING !!
EXISTING UNDERGROUND ELECTRIC IN AREA

- NOTES:**
- 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 UG LINE IN CLOSE PROXIMITY TO THE EXCAVATION SHALL BE LOCATED AND PROTECTED.

LEGEND
PROFILE VIEW:
1" = 30' VERTICAL



3/27/2020

Kimley»Horn
Texas Registered Firm, No. F-928
601 NW Loop 410 Suite 350 San Antonio, TX 78216
Tel No. 210-541-9166 Fax No. 210-541-8699

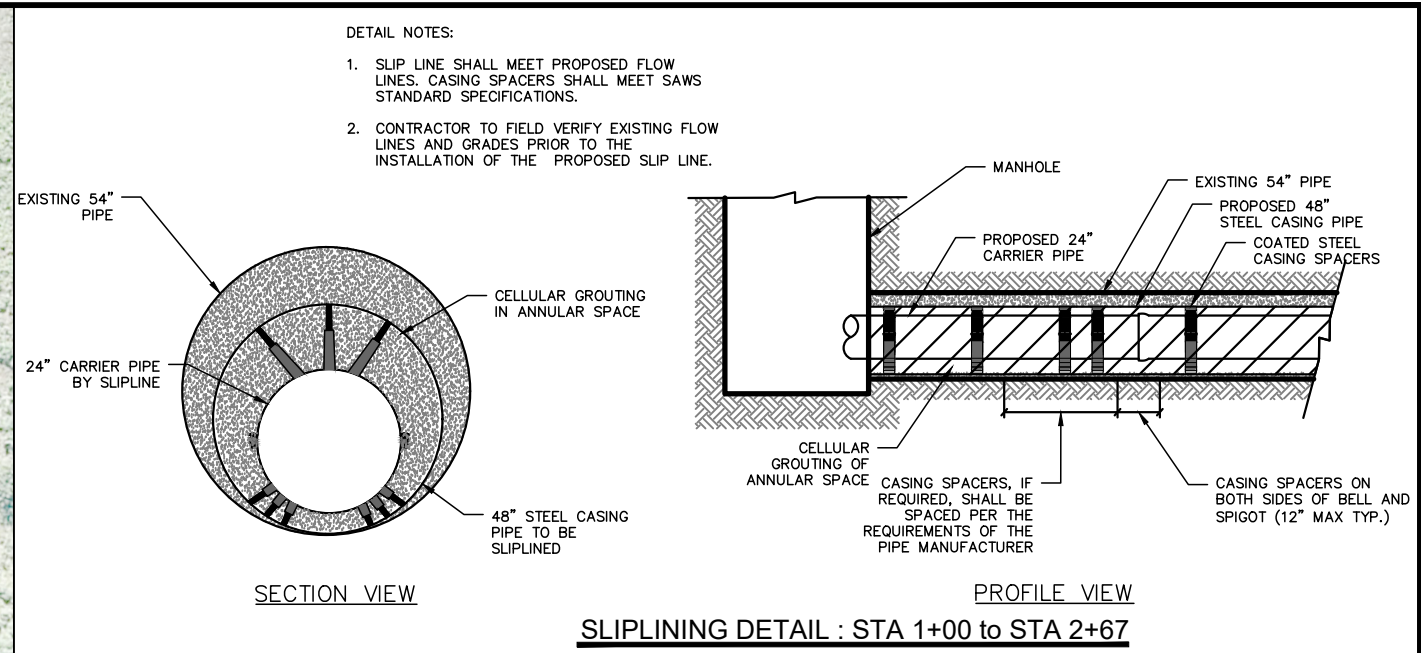
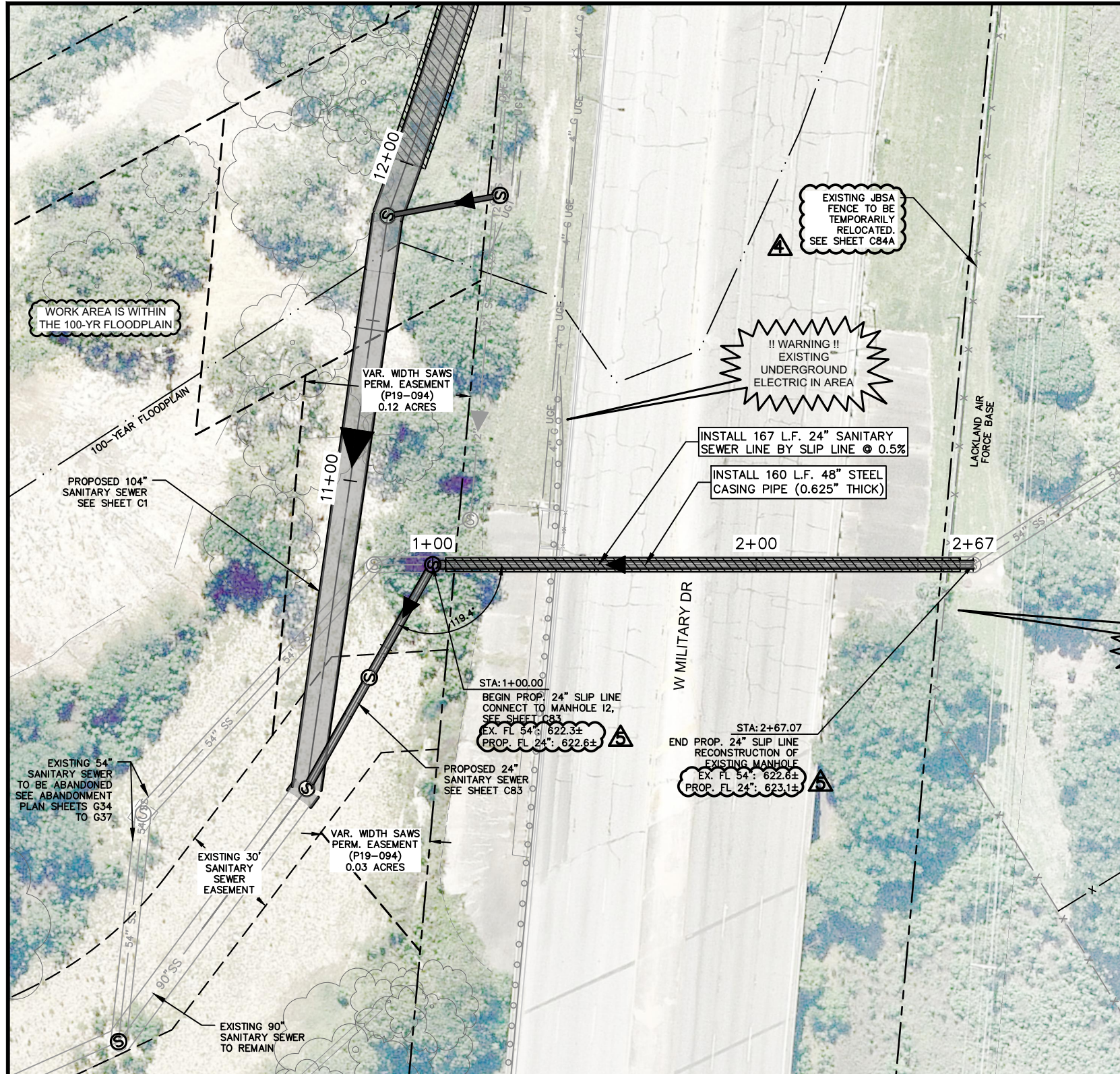
No.	Revision	By	Date
▲	ADDENDUM NO. 1	JAF	3/6/2020
▲	ADDENDUM NO. 5	JAF	3/27/2020

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

**SANITARY SEWER PLAN &
PROFILE LINE H AND LINE
I**

DATE: MARCH 2020	SAWS PROJECT NO. 19-4519	SHEET NO. C83
DESIGN: JKN	KHA PROJECT NO. 068665052	
DRAWN: CRW		
CHECKED: JAF		

PLOTTED BY: DWG NAME: SANITARY SEWER CONNECTIONS PLAN & PROFILE.DWG
 DATE: 3/26/2020 11:21 PM
 K:\SNA UTILITIES\068665052\CADD\SET\SANITARY SEWER CONNECTIONS PLAN & PROFILE.DWG



!! WARNING !!
EXISTING OVERHEAD
ELECTRIC IN AREA

- NOTES:**
- EXISTING 54" PIPE TO BE SLIPLINED WITH PROPOSED 48" STEEL CASING DUE TO EXISTING CONDITIONS OF 54" SEWER. PROPOSED 48" STEEL CASING SHALL BE SLIPLINED WITH 24" CARRIER PIPE TO CONVEY FLOW FROM LACKLAND JOINT AIR FORCE BASE.
 - SEE SLIPLINING DETAIL ON THIS SHEET FOR INSTALLATION METHODS.
 - CONTRACTOR SHALL PERFORM SLIPLINE OF THE EXISTING 54" WITH 48" STEEL CASING PIPE IN SUCH A MANNER AS TO NOT IMPACT ROADWAY EMBEDMENT.
 - CARRIER PIPE SHALL BE SUPPORTED AND RESTRAINED FROM FLOATING THROUGHOUT THE ENTIRE LENGTH BETWEEN MANHOLES PRIOR TO THE INSTALLATION OF GROUT.
 - CONTRACTOR SHALL SUPPORT THE SLIP LINE PIPE AS REQUIRED TO MAINTAIN CONSTANT GRADE BETWEEN MANHOLES, AS STATED IN THE PLANS.
 - CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING HOW THE PROPOSED SLIP LINES WILL BE INSTALLED, SUPPORTED, AND GROUTED.
 - CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING 54-INCH PIPE ONCE MOST OR ALL FLOWS HAVE BEEN TRANSFERRED AND NOTIFY THE ENGINEER.
 - JBSA FENCE RELOCATION MUST BE COORDINATED WITH JBSA. REFER TO SPECIAL CONDITIONS FOR COORDINATION REQUIREMENTS.
 - PAY ITEM "REMOVE AND RELOCATE JBSA PERIMETER FENCE" INCLUDES TEMPORARY RELOCATION AND RETURN TO PRE-EXISTING LOCATION AND CONDITION.
 - CONTRACTOR TO MAINTAIN SECURE FENCING AT ALL TIMES.

LEGEND

PROFILE VIEW:
1" = 30' VERTICAL

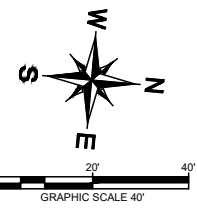
PROPOSED SANITARY SEWER LINE	
PROPOSED TUNNEL	
EXISTING SANITARY SEWER LINE	
EXISTING WATER LINE	
EXISTING GAS LINE	
PROPERTY LINE	
PROPOSED FENCE LINE	
EFFECTIVE 100-YR FLOOD PLAIN	
EDGE OF ASPHALT	
EXISTING EASEMENT LINE	
PROPOSED EASEMENT LINE	
EXISTING OVERHEAD ELECTRIC LINE & POLE	
EXISTING WATER METER	
EXISTING FIRE HYDRANT	
DIRECTION OF FLOW	

3/27/2020

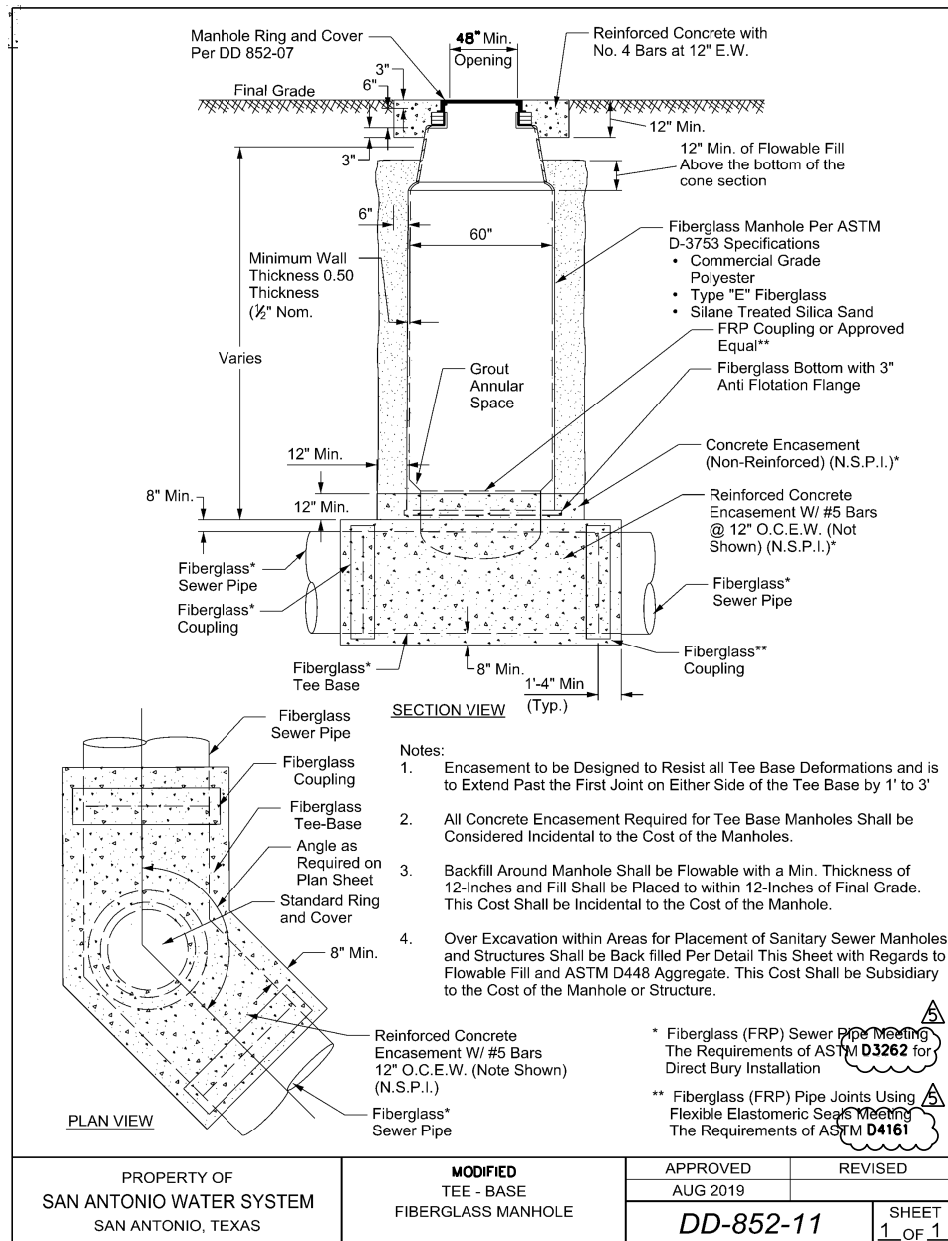
Kimley»Horn
Texas Registered Firm, No. F-928
601 NW Loop 410 Suite 350 San Antonio, TX 78216
Tel No. 210-541-9166 Fax No. 210-541-8699

No.	Revision	By	Date
▲	ADDENDUM NO. 4	JAF	3/18/2020
▲	ADDENDUM NO. 5	JAF	3/27/2020

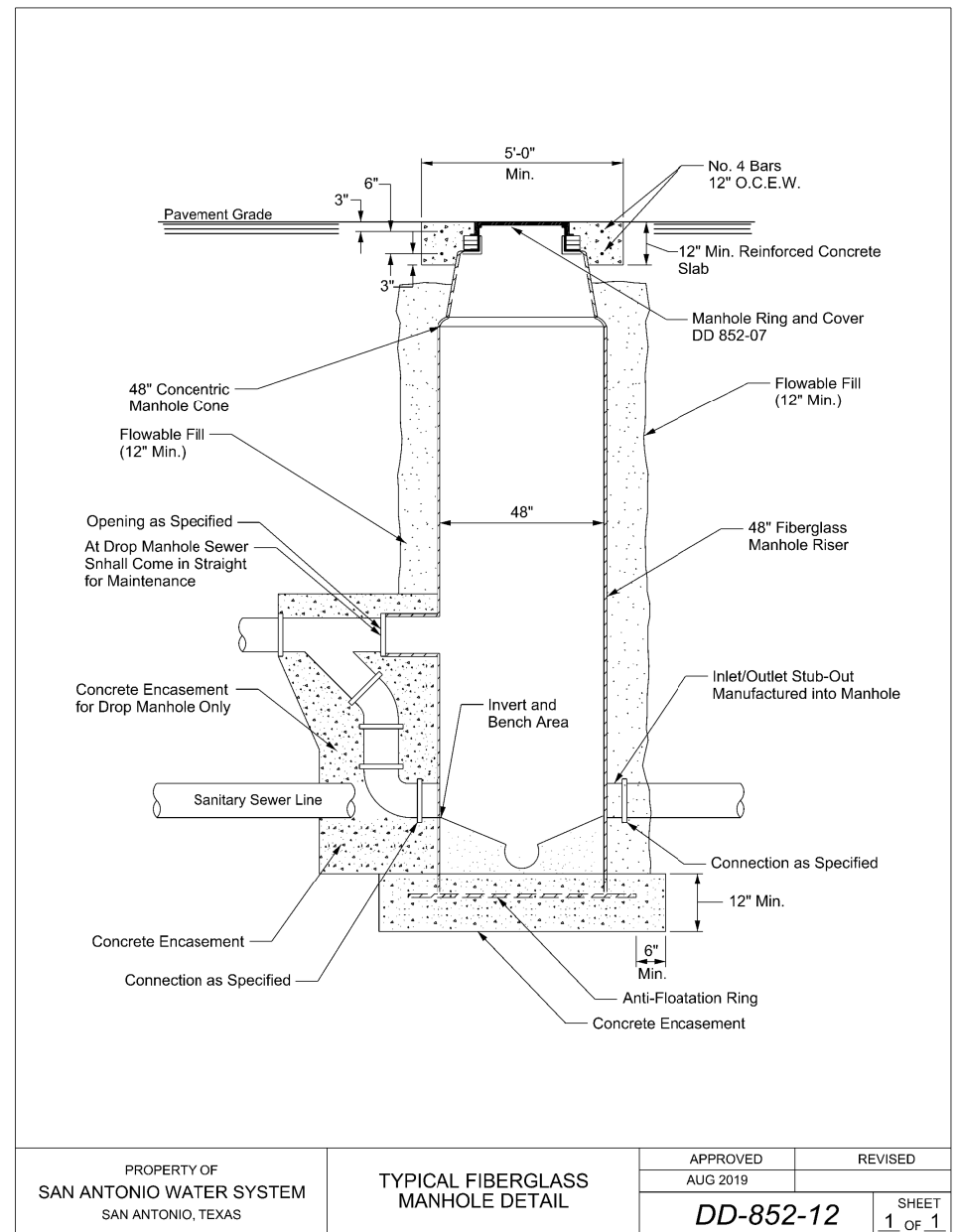
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	13
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1
02610	STEEL CASING -(48-INCH)(0.625-INCH THICK)	LF	167
1100	SLIP-LINING SANITARY SEWERS(SLIPLINE 48" STEEL CASING W/ 24" (10'-14" DEPTH)	LF	167
1100	SLIP-LINING SANITARY SEWERS(SLIPLINE EX. 54" W/ 48" STEEL CASING)(10'-14" DEPTH)	LF	160



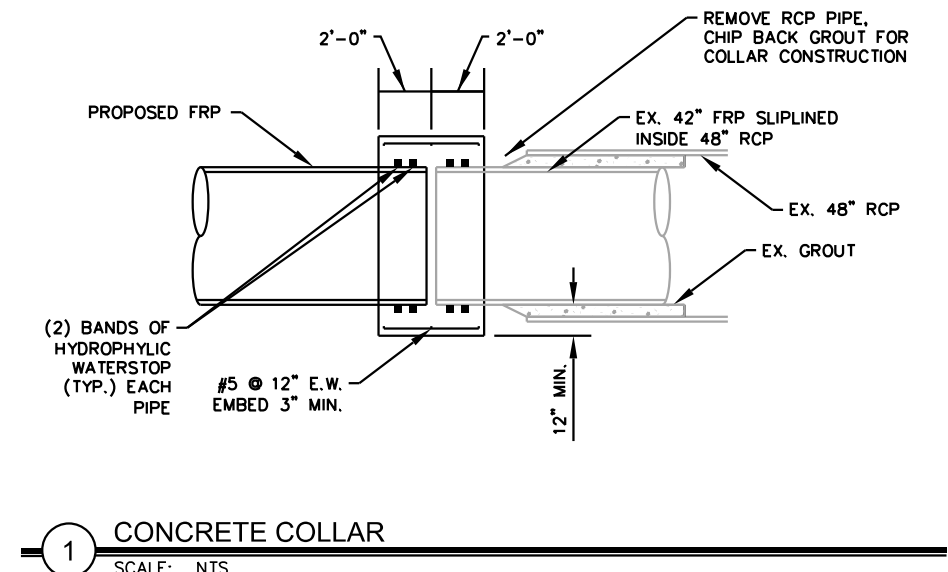
WILSON CONNER 3/26/2020 9:04 PM
 K:\SNA UTILITIES\060605\CADD\SHEETS\24-INCH SANITARY SEWER SLIP LINE.DWG
 3/26/2020 8:52 PM
 PLOTTED BY DWG NAME
 LAST SAVED



PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	MODIFIED TEE - BASE FIBERGLASS MANHOLE	APPROVED	REVISED
		AUG 2019	
DD-852-11		SHEET 1 OF 1	



PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	TYPICAL FIBERGLASS MANHOLE DETAIL	APPROVED	REVISED
		AUG 2019	
DD-852-12		SHEET 1 OF 1	



1	CONCRETE COLLAR
---	-----------------

3/23/2020

K. FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING

10001 Reunion Place
Suite 404
SAN ANTONIO, Texas 78216
P - 210.491.2391 F - 512.338.1784
TBPE Firm #6535
www.kfriesse.com

No.	Revision	By	Date
5	ADDENDUM NO. 5	CB	3/23/2020

SAN ANTONIO WATER SYSTEM

**W-6 UPPER SEGMENT:
HWY 90 TO SW MILITARY DR
SEWER MAIN**

SHEET
SEWER GENERAL DETAILS
(SHEET 1 OF 4)

DATE: FEBRUARY 2020	SAWS PROJECT NO.	SHEET NO. C86
DESIGN: KFA	19-4519	
DRAWN: KFA	KHA PROJECT NO.	
CHECKED: KFA	068665052	

X:\Projects\0647_SAWS - W6 Upper Segment\DCN\Sheets\0647_SAWS DETAILS_01.dgn modified by dchitarescu on 3/23/2020 - 5:19:45 PM