

## W-1 LEON CREEK: HWY 151 TO HWY 90 - UPPER SEGMENT Solicitation Number: CO-00351 Job No.: 19-4528

## ADDENDUM 1

#### September 16, 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.

<b>RESPONSES TO QUESTIONS</b>			
Q1:	We were wondering if the Tunneling and Shaft qualifications required for this project can be met with experience provided by the Staff of Geostructural Engineering with projects they have completed before working with Geostructural Engineering.		
Response:	SAWS will need to evaluate the firm's and personnel's qualifications. However, it is expected the contractor or subcontractor performing the work have some previous project experience comparable to the tunneling and shaft work anticipated in this project.		
Q2:	Will SAWS Permit use of Tri-Loc interlocking joint steel casing pipe in lieu of 102" Diameter welded steel casing? This method of joint connection provides significant advantage in reducing installation time.		
Response:	Per Section SS 2610, 1.04, B, press-fit connections are an acceptable method for connecting steel casing pipe. Contractor shall submit the manufactured details and engineering calculations for review and acceptance by SAWS.		
Q3:	Is the use of Steel liner plate required as shown on sheets 33, 34, & 35 or can that be substituted with 102" Steel Casing pipe?		
Response:	Contractor is only approved to use liner plate for the tunnel from STA 49+27.07 to STA 54+83.83. Steel Casing pipe will not be allowed as a substitute.		
Q4:	Will Polymer Concrete (Armorock), be allowed as an alternate bid for the wastewater structures?		
Response:	Respondents shall provide a price based on the advertised Plans and Contract Documents. Alternatives should be submitted in the innovative ideas for cost savings section of the proposal (see SIR - Sec. 3.a.iv). With the best valued Respondent selected, SAWS will negotiate any changes to scope.		
Q5:	Can an allowance be provided for the handling of groundwater and surface water?		
Response:	No, per SS 2140 the Control of Surface and Groundwater Controls are subsidiary to the work and not a separate line item.		

Q6:	Please confirm what permits that will be needed to construct the project.				
Response:	Permits needed to construct the project are: 1. CoSA Floodplain Development Permit				
	2. CoSA Tree Permit				
	3. TXDOT Utility Installation Request Permit				
	4. CoSA Right-of-Way Permit				
	5. USACE NWP 12				
Q7:	The proposed 84" main intersects the existing 42-inch line at station 33+25. Is the intent for the contractor to remain on bypass for the remainder of the construction moving upstream?				
Response:	The 84" main does cross the existing 42" main at approximately STA 33+25. The bypass plan recommendation is to leave the installation of the segment of proposed 84" main between MH-4 and MH-5 until the end of construction so that the existing 42" main is undisturbed and remains in service throughout most of the construction. Once construction of the proposed 84" main is complete all the way upstream of MH-5 (up to and including MH-16) and downstream of MH-4 then "Bypass Line 4" can be installed to divert the flow from the existing 42" so that the segment between the two manholes can be constructed and put into service. This recommendation results in the need for a bypass of the 42" main only during construction of the segment between MH-4 and MH-5 and not for the entire duration of construction.				
	The Contractor shall submit a bypass plan and phasing plan to SAWS for review and approval prior to the commencement of construction. Therefore, the Contractor has the ability to control the phasing of the bypass and sewer main construction and is not bound to the recommended plan.				
Q8:	Please confirm that the contractor is required to provide a Karst Geologist/Biologist duration of all excavation as outlined in SC6 &9.				
Response:	The Contractor is required to provide a Karst Geologist/Biologist once a week during open-cut construction.				
Q9:	Please confirm that the required Nest Survey is only required if clearing operations occur between March and August.				
Response:	That is correct. Nest Survey is only required if clearing operations occur from March 15th thru September 15th.				
Q10:	Please confirm which manholes will require the top slab as shown on D-5.A. Details on D-4 call out top slabs as "SAWS Standard Ring Encasement" with 3 foot toe down.				
Response:	Manholes MH-1, MH-2, MH-3, MH-4, MH-8, MH-11, MH-14, MH-15 and MH-16 will require top slabs and reference Detail D-5/2. Detail D-4/1, Section A will be revised to show SAWS Standard Concrete Ring Encasement.				
Q11:	Is a RPLS required to check all manholes line and grade?				
Response:	Yes, an RPLS is required to check all manholes line and grade. Refer to Specification Section 1050– Survey Controls.				
Q12:	Is a tunnel shield required for all tunnels with liner plate?				
Response:	Yes, per Tunnel Liner Table in Sheet D-1 (Sheet 50 of 67) a tunnel shield is required at all tunnel locations.				

Q10: Response:	Will SAWS consider the addition of an allowance for fees associated with the requirement for a biologist or geologist to monitor all excavation activities. <i>No.</i>
Response: Q16:	Table 2 from Section SS 2314 is intended to be for 4-flange liner plate.         Will SAWS consider the addition of an allowance for face associated with the requirement for a biologist.
Q15:	Under section SS 2314 2.01.B.4 there are 2 tables shown. Both indicate 2 flange liner plate. Please clarify if one of these tables is intended to be for 4 flange liner plate.
Response:	Direct Pipe-jacking is an allowable tunneling method for the Leon Creek Tunnel (STA 24+25 – STA 29+75) and Pinn Road Tunnel (STA 36+26 – STA 37+18.06). The contractor has the option to select other allowable tunneling methods as presented in the Tunnel Liner Table in Sheet D-2 (Sheet 50 of 67). It is the contractor's responsibility to select the appropriate tunnel methodology, as approved by SAWS, based on experience and the anticipated soils conditions to be encountered
Q14:	SS2422 is included as part of the proposal documents. Are any of the tunnels expected to be constructed by Direct Pipe-jacking Method?
Response:	Correct, only internal surfaces damaged by coring and placement of the new FRP will need to be repaired and only exterior vapor barrier damaged due to coring and placement of the new FRP will need to be repaired. Contractor shall refer to SAWS Approved Product List (APL).
Q13:	Sheet S-1 requires repair of vapor barrier and interior coating of the existing structure. Will only the damaged areas be required to be replaced or will the whole structure need repair? In addition, what coating will is currently approved?

## **CHANGES TO THE SPECIFICATIONS**

#### 1. Price Proposal

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.

### 2. Wage Decisions

Due to an update in the General Wage Decision for Building Construction Type, remove the Building Wage decision document from the solicitation in its entirety and replace with the revised version attached (rev. 08/28/2020, General Decision Number: TX20200231). This version should be utilized by the awarded contractor for the project.

### 3. Supplemental Conditions, modifications include the following:

### Article III – CONTRACT DOCUMENTS & BONDS

Remove First Sentence of 3.3.1 of the general conditions and replace with the following:

RECORD DRAWING – Each month as the Work progresses, the Contractor shall formally submit to SAWS, along with the monthly payment application, a set of red line drawings noting work completed during that period.

The remaining sections of Article III shall remain the same.

#### Article V – CONTRACT RESPONSIBILITIES

Section 5.3 shall be amended by adding Section 5.3.14 after Section 5.3.13 as follows:

14 The personnel specified below are considered by SAWS to be essential to the work being performed under this Contract, and as such are defined as Key Personnel. Key Personnel include the Project Manager, Construction Manager, Quality Assurance and Quality Control Lead, Project Scheduler, Project Superintendent, Open Cut Superintendent, and Pipe Jacking / Tunneling Superintendent. Key Personnel shall be dedicated exclusively to this Project and shall be assigned as full-time employees for the duration of the Project. Prior to diverting any of the specified individuals to other projects, the contractor shall notify the Owner reasonably in advance and shall submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on the project. No diversion shall be made by the contractor without the written consent of the Owner.

Subcontractor is defined in Article I, Contract Definitions of the General Conditions of the Contract Documents. Respondents should reference this definition prior to submitting a proposal in response to this Request for Competitive Sealed Proposals ("RFCSP").

Key Subcontractors are defined as subcontractors that are responsible for executing a significant portion of the work, and as such are deemed to be essential to the work being performed under this Contract. The Key Subcontractor roles could include pipe jacking, tunneling, hand mining, large diameter open cut pipe installation, and large diameter sanitary sewer bypass which are considered by SAWS to be essential to the work being performed under this Contract, amount to a significant portion of the work, and as such shall be performed by Key Subcontractors. Prior to diverting any of the specified Key Subcontractors and associated Key Personnel to other projects, the contractor shall notify the Owner reasonably in advance and shall submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on the project. No diversion shall be made by the contractor without the written consent of the Owner.

Section 5.13.5 shall be amended to remove the last sentence and replace with the following:

The Respondent is required to submit a baseline schedule as part of the proposal. The baseline schedule shall be a detailed, precedence-style critical path management schedule in Primavera or Microsoft Project format. The baseline schedule must encompass the entire contract duration from Notice to Proceed to the Contract End Date. This baseline schedule must show a completion date that corresponds to the Contract End Date. The baseline schedule must be inclusive of all work necessary to complete the project including sufficient time necessary for submission and review of submittals, permits, etc. The schedule shall take into consideration sequencing and contractual limitations as described within the Contract Documents. The anticipated notice to proceed (NTP) for this Project is January 4, 2021. Respondent shall use this date for developing the proposed project schedule.

The remaining sections of Article V shall remain the same.

#### 4. Special Conditions, replace SC7. Rock Excavation in its entirety with the following:

#### SC7. Rock Excavation

Soil borings completed for this project are widely spaced and therefore subsurface materials and conditions can and likely will vary between soil borings. Marl and Shale bedrock were encountered in our borings at relatively shallow depths, thus the need for rock excavation equipment should be anticipated for construction at this site. All hard rock excavation costs associated with this work are incidental to the pipe installation.

### 5. Supplemental Specifications, SS 2314 Tunneling with Steel Liner Plate:

Remove Table 2 title: "2 Flange Liner Plate, H-20 Live Load" and "Replace with 4 Flange Liner Plate, H-20 Live Load"

### **CHANGES TO THE PLANS**

- Remove the following plan sheets in their entirety and replace them with the attached, revised plan sheets. (Revisions 1. made from the original sheets are depicted by revision clouds around the changed portions.)
  - Sheet G-4: QUANTITIES AND SAWS GENERAL CONSTRUCTION NOTES SHEET Replace sheet in its entirety.
    - o Reduce quantity of Line Item 39 Extra Depth Tee Base Manhole
    - o Added Line Item 69 Concrete Manhole Top Slab
    - o Revised Excavation Equipment note to indicate that rock excavation is considered incidental to the pipe installation and there is no separate line item.
  - Sheet C-1: Line "A" Plan and Profile Sheet STA 9+94.15 to 14+00 Replace sheet in its entirety. o Added concrete top slabs to MHs 1 and 2
    - o Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table

- Sheet C-3: Line "A" Plan and Profile Sheet STA 18+00 to 22+00 Replace sheet in its entirety.
   o Added concrete top slab to MH-3
   o Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
- Sheet C-6: Line "A" Plan and Profile Sheet STA 30+00 to 34+00 Replace sheet in its entirety.
   o Added concrete top slab to MH-4
  - o Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
- Sheet C-9: Line "A" Plan and Profile Sheet STA 42+00 to 46+00 Replace sheet in its entirety.
   o Added concrete top slab to MH-8
   o Added Line Item D-5- Concrete Manhole Top Slab to Quantity Table
- Sheet C-12: Line "A" Plan and Profile Sheet STA 54+00 to 58+00 Replace sheet in its entirety.

   Added concrete top slab to MH-11
   Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
  - Sheet C-16: Line "A" Plan and Profile Sheet STA 70+00 to 74+00 Replace sheet in its entirety.
- Sheet C-16: Line "A" Plan and Profile Sheet S1A 70+00 to 74+00 Replace sheet in its entirety
   Added concrete top slab to MH-14
   Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
- Sheet C-17: Line "A" Plan and Profile Sheet STA 74+00 to 78+00 Replace sheet in its entirety.

   Added concrete top slab to MH-15
   Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
- Sheet C-20: Line "A" Plan and Profile Sheet STA 86+00 to 88+07.68 Replace sheet in its entirety.
   O Added concrete top slab to MH-16
  - o Added Line Item D-5 Concrete Manhole Top Slab to Quantity Table
- Sheet D-4: Manhole Details, revised Manhole Section "A" Replace sheet in its entirety.
   o Revised Detail D-4/1 Section A to show SAWS STD Concrete Ring Encasement

## CLARIFICATIONS

### 1. Supplemental Specifications, SS 804A Contaminated Soil and Water Control:

Neither contaminated groundwater nor contaminated soil is expected on this project. However line items 70, 71 and 72 have been added as an allowance should contaminated soils be encountered during construction of the sewer main.

### END OF ADDENDUM 1

This Addendum is 28 pages in its entirety, including attachments.

Attachments:

- Contract Documents Price Proposal (4 pages)
- General Wage Decision Number: TX20200231 (rev. 08/28/2020) (7 pages)
- Supplemental Specifications SS 2314 Tunneling with Steel Liner Plate: Page 2314-13
- Plans Sheet G-4: Quantities and SAWS General Construction Notes Sheet
- Plans Sheet C-1: Line "A" Plan and Profile STA 9+94.15 to 14+00
- Plans Sheet C-3: Line "A" Plan and Profile STA 18+00 to 22+00
- Plans Sheet C-6: Line "A" Plan and Profile STA 30+00 to 34+00
- Plans Sheet C-9: Line "A" Plan and Profile STA 42+00 to 46+00
- Plans Sheet C-12: Line "A" Plan and Profile STA 54+00 to 58+00
- Plans Sheet C-16: Line "A" Plan and Profile STA 70+00 to 74+00
- Plans Sheet C-17: Line "A" Plan and Profile STA 74+00 to 78+00
- Plans Sheet C-20: Line "A" Plan and Profile STA 86+00 to 88+07.68
- Plans Sheet D-4: Manhole Details, revised Manhole Section "A"

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Jason Diamond Pape-Dawson Engineers, Inc.



#### PRICE PROPOSAL

PROPOSAL OF	_, a corporation
a partnership consisting of	
an individual doing business as	

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation 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 in the bid proposal to wit:

## PLEASE SEE ATTACHED LIST OF PRICE PROPOSAL ITEMS.

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.

#### PROPOSAL

The Respondent offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within <u>563</u> 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.

#### Price Proposal SAWS Job No. 19-4528 W-1 Leon Creek: Hwy 151 to Hwy 90 - Upper Segment Solicitation No. CO-00351

Line No	ltem No.	Description	Unit	Quantity	Unit Price	Total Price
1	202,1	PRIME COAT	GAI.	588	\$	\$
2	203.1	TACK COAT	GAL	708	\$	\$
3	205.2	HOTMIX ASPHALT PAVEMENT TYPE B - 10 INCHES PAVEMENT THICKNESS	SY	1,654	\$	\$
4	205.3	HOTMIX ASPHALT PAVEMENT TYPE D - 3 INCHES PAVEMENT THICKNESS	SY	1,200	\$	\$
5	205.4	HOTMIX ASPHALT PAVEMENT TYPE D - 2 INCHES PAVEMENT THICKNESS	SY	5,856	\$	\$
6	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (2 INCHES DEPTH)	SY	5,856	\$	\$
7	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (3 INCHES DEPTH)	SY	1,200	\$	\$
8	500.1	CONCRETE CURB	LF	64	\$	\$
9	502.1	CONCRETE SIDEWALKS	SY	12	\$	\$
10	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	57	\$	s
11	505.1	CONCRETE RIPRAP (6" THICK)	SY	61	Ś	Ś
12	103.4	REMOVE MISC. CONCRETE	SF	420	\$	\$
13	SP-13	BYPASS PUMPING PAD 10'X10' WITH 4"-6" (D50) RIPRAP (COMPLETE)	LS	1	\$	\$
14	SP-13	EXISTING PAD RESTORATION	LS	1	Ś	Ś
14	511.1	REPLACING WITH FLEXIBLE BASE & PAVEMENT (12" COMPACTED DEPTH)	SY	16	\$	\$
16	522.1	SIDEWALK PIPE RAILING	LF	44	<u>خ</u>	<u>ب</u> د
17	536.1	4" WIDE YELLOW LINE	LF	480	<del>بر</del> د	<del>ب</del> د
			LF	480	¢	۶
18	536.2		LF		>	2
19	814	24" DI WATERLINE (OPEN CUT)		85	>	\$
20	836	PIPE FITTINGS (ALL TYPES & SIZES)	TN	1.55	\$	\$
21	840	24" WATER TIE-INS	EA	2	\$	\$
22	841.0	HYDROSTATIC TESTING	EA	1	\$	\$
23	844.4	4" BLOW-OFF, TEMPORARY	EA	1	\$	\$
24	110/820	36" CSC RECYCLED WATER MAIN, RESTRAINED	LF	61	\$	\$
25	110	30" MANWAY	EA	1	\$	\$
26	846	2" AIR RELEASE VALVE	EA	1	\$	\$
27	3100	TEMOPORARY WATER MAIN (12" HDPE)	LS	1	\$	\$
28	507	TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH)	LF	111	\$	\$
29	530	BARRICADES, SIGNS & TRAFFIC HANDLING TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND	LS	1	\$	\$
30	SPTS 540	CONTROL	LS	1	\$	\$
31	550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	6,979	\$	\$
32	848A	8" PVC SDR 26 (OPEN CUT 0'-10')	LF	106	\$	\$
33	848A	12" PVC SDR 26 (OPEN CUT 10'-20')	LF	67	\$	\$
34	848B	TESTING AND ACCEPTANCE OF PVC SDR 26 PIPE (ALL DEPTHS)	LS	1	\$	\$
35	852A	EXTRA DEPTH MANHOLE	VF	13	\$	\$
36	852A	4 FEET SANITARY SEWER MANHOLE	EA	1	\$	\$
37	852A	REMOVE & REPLACE 4' SANITARY SEWER MANHOLE	EA	2	\$	\$
38	852B	TESTING AND ACCEPTANCE OF SANITARY SEWER MANHOLES (ALL TYPES)	LS	1	\$	\$
39	853	EXTRA DEPTH TEE BASE MANHOLE	VF	194	\$	\$
40	853A	TEE BASE FIBERGLASS MANHOLE	EA	3	\$	\$
41	853A	TEE BASE FIBERGLASS MANHOLE, MITER	EA	9	\$	\$

#### Price Proposal SAWS Job No. 19-4528 W-1 Leon Creek: Hwy 151 to Hwy 90 - Upper Segment Solicitation No. CO-00351

Line No	item No.	Description	Unit	Quantity	Unit Price	Total Price
- 42	853A	TEE BASE FIBERGLASS MANHOLE, MITER W/ SUMP	EA	1	\$	\$
43	853A	TEE BASE FIBERGLASS DROP MANHOLE	EA	2	\$	\$
44	853A	TEE BASE FIBERGLASS DROP MANHOLE, MITER	EA	1	\$	\$
45	853B	TESTING AND ACCEPTANCE OF FRP MANHOLES (ALL TYPES)	LS	1	\$	\$
46	SS 2426	CARRIER PIPE IN TUNNELS - 84" FRP (ASTM D-3262)(SN 72)	LF	1,196	\$	\$
47	SS2610/SS2314	102" STEEL CASING PIPE (0.5" THICKNESS) / 108" STEEL LINER PLATE	LF	550	\$	\$
48	SS2441/SS2314	PIPE-JACKED TUNNEL/TUNNELING WITH LINER PLATE	LF	550	\$	\$
49	SS2610	102" STEEL CASING PIPE (0.5" THICKNESS)	LF	89	\$	\$
50	SS2441	PIPE-JACKED TUNNEL	LF	89	\$	\$
51	SS2314	108" STEEL LINER PLATE	LF	557	\$	\$
52	SS2314	TUNNELING WITH LINER PLATE	LF	557	\$	\$
53	857A	24" FRP (ASTM D-3262)(SN 72)(OPEN CUT 5'-10')	LF	43	\$	\$
54	857A	66" FRP (ASTM D-3262)(SN 72)(OPEN CUT 15'-20')	LF	67	\$	\$
55		84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 10'-15')	LF	1,075	\$	\$
56		84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 15'-20')	LF	4,940	\$	\$
57	857A	84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 20'-25')	LF	525	\$	\$
58	857B	TESTING AND ACCEPTANCE OF FRP GRAVITY SEWER (ALL SIZES AND DEPTHS)	LS	1	\$	\$
59	858	CONCRETE ENCASEMENT (MIN STRENGTH, 2,000 PSI)	CY	4,126	\$	\$
60	413	FLOWABLE FILL	CY	351	\$	\$
61	862	ABANDON EXISTING SEWER MAIN (>15-INCH DIAMETER)	LF	7,706	\$	\$
62	862	ABANDON EXISTING SEWER MAIN (<15-INCH DIAMETER)	LF	70	\$	\$
63	864-S1	BYPASS PUMPING SMALL DIAMETER (<24")	LS	1	\$	\$
64	SP 864-S2	BYPASS PUMPING LARGE DIAMETER (>24")	LS	1	\$	\$
65	866	SEWER MAIN TV INSPECTION (ALL SIZES)	LF	8,080	\$	\$
66	866	SEWER MAIN TV INSPECTION (PRE-ABANDONMENT)	LF	7,776	\$	\$
67	910	MANHOLE REHABILITATION	SF	692	\$	\$
68	TP7-TP10	DRILL SEEDING (WITH NATIVE SEED MIXTURE)	SY	630,506	Ś	s
69	D-5	CONCRETE MANHOLE TOP SLAB	EA	9		
			SUBTOTAL (I	TEMS 1-69)	\$	\$
		ENVIRONMENTAL SERVICES, INCLUSIVE OF AIR MONITORING, WASTE CHARACTERIZATION, SAMPLING (LABOR, LAB, OTHER DIRECT COSTS), REPORTING, AND				-
70	SS 804A	ENVIRONMENTAL OVERSIGHT	LS	1	\$	\$
		CLASS 1 SOIL WASTE DISPOSAL INCLUSIVE OF REMOVING, MANAGING, CHARACTERIZING, MANIFESTING, TRANSPORTING AND DISPOSING AT A PERMITTED				
71	SS 804A	LANDFILL	TON	156	\$	\$
72	SS 804A	CLASS 2 SOIL WASTE DISPOSAL INCLUSIVE OF REMOVING, MANAGING, CHARACTERIZING, MANIFESTING, TRANSPORTING AND DISPOSING AT A PERMITTED LANDFILL	TON	1,440	\$	\$
73	SPTS 100A	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (OPEN-CUT CONSTRUCTION)	EA	2	\$	\$
74	SPTS 100B	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (TUNNEL CONSTRUCTION)	EA	2	\$	\$
75	864-51.3	BYPASS PUMPING DURING DEMOBILIZATION (SMALL DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	DAY	30	\$	\$
76	864-S1.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY	30	\$	\$
77	864-S1.5	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING	DAY	30	\$	\$
78	864-SP-S2.3	B BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	DAY	30	s	s

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#### Price Proposal SAWS Job No. 19-4528 W-1 Leon Creek: Hwy 151 to Hwy 90 - Upper Segment Solicitation No. CO-00351

Line No	item No.	Description	Unit	Quantity	Unit Price	Total Price
79	864-SP-S2.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY	30	\$	\$
80	864-SP-S2.5	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING	DAY	30	\$	\$
81	100	MOBILIZATION (MAXIMUM 8% OF ITEMS 1-69)	LS	1	\$	\$
82	101	PREPARATION OF RIGHT-OF-WAY (MAXIMUM 4% OF ITEMS 1-69)	LS	1	\$	\$
	TOTAL PRICE PROPOSAL (TO INCLUDE LINE ITEMS 1-69 AND 70-82) \$					

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.

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Superseded General Decision Number: TX20190231

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date	
0		01/03/2020		
1		02/14/2020		
2		08/28/2020		

ASBE0087-014 01/01/2018

	Rates	Fringes	
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation).		10.02	
BOIL0074-003 01/01/2017			
	Rates	Fringes	
BOILERMAKER	\$ 28.00	22.35	
ELEC0060-003 06/01/2019			
	Rates	Fringes	

Technician Only)	\$ 22.55	9%+5.45
ELEC0060-004 06/01/2019		
	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring)	\$ 28.60	18%+5.45
ELEV0081-001 01/01/2020		
	Rates	Fringes
ELEVATOR MECHANIC	\$ 41.90	34.765
<pre>FOOTNOTES: A. 6% under 5 years based on hours worked. 8% over 5 yea for all hours worked. B. Holidays: New Year's Day</pre>	ars based on re; ; Memorial Day;	gular hourly rate Independence Day;
Labor Day; Thanksgiving Day Christmas Day; and Veterans		Thanksgiving Day;
ENGI0450-002 04/01/2014		
	Rates	Fringes
POWER EQUIPMENT OPERATOR Cranes	\$ 34.85	9.85
IRON0066-013 06/01/2019		
	Rates	Fringes
IRONWORKER, STRUCTURAL	\$ 22.70	6.73
IRON0084-011 06/01/2019		
	Rates	Fringes
IRONWORKER, ORNAMENTAL		7.12
PLUM0142-009 08/07/2019		
	Rates	Fringes
HVAC MECHANIC (HVAC Electrical Temperature		
Control Installation Only) HVAC MECHANIC (HVAC Unit	\$ 30.25	13.36
Installation Only) PIPEFITTER (Including HVAC	\$ 30.25	13.36
Pipe Installation) Including HVAC Pipe Install PLUMBER (Excludes HVAC Pipe		13.76
Installation) Excludes HVAC Pipe Installa	tion	13.76
* SFTX0669-002 04/01/2020		

Rates

Fringes

-

 SHEE0067-004 07/01/2020		
511110007 004 0770172020	Rates	Fringes
· ·	Rates	FIIIGES
Sheet metal worker Excludes HVAC Duct		
Installation		15.51 15.51
SUTX2014-006 07/21/2014		
551A2611 000 0772172011	Rates	Fringes
D T OWL A VED		-
RICKLAYER	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling	\$ 17.83	0.00
CARPENTER (Form Work Only)		0.00
CARPENTER, Excludes		
coustical Ceiling		
nstallation, Drywall Manging, Form Work, and Metal		
tud Installation	\$ 16.86	4.17
AULKER	\$ 15.00	0.00
EMENT MASON/CONCRETE FINISHER	\$ 22.27	5.30
DRYWALL FINISHER/TAPER	\$ 13.81	0.00
DRYWALL HANGER AND METAL STUD		
INSTALLER	\$ 15.18	0.00
LECTRICIAN (Low Voltage Wiring Only)	\$ 20.39	3.04
RONWORKER, REINFORCING		0.00
ABORER: Common or General		0.00
ABORER: Mason Tender - Brick		0.00
,ABORER: Mason Tender - Cement/Concrete	\$ 12.00	0.00
ABORER: Pipelayer	.\$ 11.00	0.00
ABORER: Roof Tearoff	\$ 11.28	0.00
ABORER: Landscape and		
rrigation	.\$ 8.00	0.00
DPERATOR: Backhoe/Excavator/Trackhoe	\$ 15.98	0.00
DPERATOR: Bobcat/Skid		
teer/Skid Loader	\$ 14.00	0.00

OPERATOR:	Bulldozer\$	14.00	0.00
OPERATOR:	Drill\$	14.50	0.00
OPERATOR:	Forklift\$	12.50	0.00
OPERATOR:	Grader/Blade\$	23.00	5.07
OPERATOR:	Loader\$	12.79	0.00
OPERATOR:	Mechanic\$	18.75	5.12
OPERATOR: Aggregate,	Paver (Asphalt, and Concrete)\$	16.03	0.00
OPERATOR:	Roller\$	12.00	0.00
	rush, Roller and cludes Drywall		
	Taping\$	13.07	0.00
ROOFER	\$	12.00	0.00
TILE FINIS	HER\$	11.32	0.00
TILE SETTE	R\$	14.94	0.00
TRUCK DRIV	ER: Dump Truck\$	12.39	1.18
TRUCK DRIV	ER: Flatbed Truck\$	19.65	8.57
	ER: Semi-Trailer \$	12.50	0.00
TRUCK DRIV	ER: Water Truck\$	12.00	4.11

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

> Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

- 4. Tunnel Liner Plates and fasteners shall comply with the requirements of AASHTO HB-17.
  - a. The minimum thickness gauge of liner plates shall meet or exceed the values tabulated below, which are calculated by the design methods of AASHTO HB-17.

TABLE 1: 2 FLANGE LINER PLATE, H-20 LIVE LOAD										
Nominal Diameter Thickness Height of Fill										
feet, inches	meters, m	Gauge	mm	feet meters, m						
7' & less	2.1 m & less	12	2.7	All f	All fill heights					
7' 2" to 9'	2.15 m to 2.7 m	10	3.4	All fill heights						
9' 2" to 11'	2.75 m to 3.3 m	8	4.2	All fill heights						

Note: For diameters larger than 11 feet (3.3 meters) or for any diameter with unstable soil conditions, consult the manufacturer.

	$\sim$	$\gamma\gamma\gamma\gamma$	$\sim$	$\sim$						
	TABLE 2: 4 FL	ANGE LINE	ER PLATE, H	I-20, LIVE LO	AD)					
Nominal Diameter Thickness Height of Fill										
feet, inches	meters, m	Gauge	mm	feet meters, m						
7' & less	2.1 m & less	10	3.4	All fi	ll heights					
7' 2" to 9'	2.15 m to 2.7 m	8	4.2	All fill heights						
9' 2" to 11'	2.75 m to 3.3 m	7	4.6	to 28'	to 8.4 m					
9' 2" to 11'	2.75 m to 3.3 m	5	5.3	over 28'	over 8.4 m					

Note: For diameters larger than 11 feet (3.3 meters) or for any diameter with unstable soil conditions, consult the manufacturer.

- b. Liner plates shall be punched for bolting on both longitudinal and circumferential seams and fabricated to permit complete erection from the inside of the tunnel.
- c. Where shown on the Drawings, gasketed liner plates shall be used.
- d. Field welding of Tunnel Liner Plate, including grout couplings shall not be allowed.
- e. The material used for the construction of these plates shall be new, unused and suitable for the purpose intended.
- f. Bolts used with lapped-seam (2-flange) liner plates shall be not less than 5/8" diameter. Bolts shall conform to ASTM A-449 for plate thickness equal to or greater than 0.209", and to ASTM A-307 for plate thickness less than 0.209". The nuts shall conform to ASTM A-307.
- g. Bolts used with 4-flange liner plates shall be not less than ½" diameter for plate thickness up to and including 0.179", and not less than 5/8" diameter for plates of greater thickness. The bolts and nuts shall be quick-acting coarse thread and shall conform to ASTM A-307, Grade A.

# QUANTITIES TABLE

9/16/2020	
:NO	
PLOTTED	

1		NO	ITEM	UNIT	QUANTITY	1
	1	202.1	PRIME COAT	GAL	588	
	2	203.1	TACK COAT	GAL	708	
	3	205.2	HOTMIX ASPHALT PAVEMENT TYPE B - 10 INCHES PAVEMENT THICKNESS	SY	1,654	
	4	205.3	HOTMIX ASPHALT PAVEMENT TYPE D - 3 INCHES PAVEMENT THICKNESS	SY	1,200	
	5	205.4	HOTMIX ASPHALT PAVEMENT TYPE D - 2 INCHES PAVEMENT THICKNESS	SY	5,856	
	6	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (2 INCHES DEPTH)	SY	5,856	
	7	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (3 INCHES DEPTH)	SY	1,200	
	8	500.1	CONCRETE CURB	LF	64	
	9	502.1	CONCRETE SIDEWALKS	SY	12	
	10	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	57	
	11 12	505.1 103.4	CONCRETE RIPRAP (6" THICK) REMOVE MISC. CONCRETE	SY SF	61 420	
		SP-13	BYPASS PUMPING PAD 10'x10' WITH 4"-6" (D50) RIPRAP (COMPLETE)	LS		
	13 14	SP-13	EXISTING PAD RESTORATION	LS	1	
	14	511.1	REPLACING WITH FLEXIBLE BASE & PAVEMENT (12" COMPACTED DEPTH)	SY	16	
	16	522.1	SIDEWALK PIPE RAILING	LF	44	
	17	536.1	4" WIDE YELLOW LINE	LF	480	
	18	536.2	4" WIDE WHITE LINE	LF	480	
	19	814	24" DI WATERLINE (OPEN CUT)	LF	85	
	20	836	PIPE FITTINGS (ALL TYPES & SIZES)	TN	1.55	
	21	840	24" WATER TIE-INS	EA	2	
	22	841	HYDROSTATIC TESTING	EA	1	
	23	844.4	4" BLOW-OFF, TEMPORARY	EA	1	
	24	110/820	36" CSC RECYCLED WATER MAIN, RESTRAINED	LF	61	
	25	110	30" MANWAY	EA	1	
	26	846	2" AIR RELEASE VALVE	EA	1	
	27	3100	TEMOPORARY WATER MAIN (12" HDPE)	LS	1	
	28	507.1	TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH)	LF	111	
	29	530	BARRICADES, SIGNS & TRAFFIC HANDLING	LS	1	
	30	SPTS 540	TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL	LS	1	
	31	550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	6,979	
	32	848A	8" PVC SDR 26 (OPEN CUT 0'-10')	LF	106	
	33	848A	12" PVC SDR 26 (OPEN CUT 10'-20')	LF	67	
	34	848B	TESTING AND ACCEPTANCE OF PVC SDR 26 PIPE (ALL DEPTHS)	LS	1	
	35	852A	EXTRA DEPTH MANHOLE	VF	13	
	36	852A	4 FEET SANITARY SEWER MANHOLE	EA	1	
	37	852A	REMOVE & REPLACE 4' SANITARY SEWER MANHOLE	EA	2	
	38	852B	TESTING AND ACCEPTANCE OF SANITARY SEWER MANHOLES (ALL TYPES)	LS	1	
	39	853	EXTRA DEPTH TEE BASE MANHOLE	VF	(194)	
	40	05.7.4		54		
	40 41	853A 853A	TEE BASE FIBERGLASS MANHOLE TEE BASE FIBERGLASS MANHOLE, MITER	EA EA	3	
	42	853A	TEE BASE FIBERGLASS MANHOLE, MITER W/ SUMP	EA	1	
	43	853A	TEE BASE FIBERGLASS DROP MANHOLE	EA	2	
	44	853A	TEE BASE FIBERGLASS DROP MANHOLE, MITER	EA	1	
	45	853B	TESTING AND ACCEPTANCE OF FRP MANHOLES (ALL TYPES)	LS	1	
	46	SS 2426	CARRIER PIPE IN TUNNELS – 84" FRP (ASTM D-3262)(SN 72)	LF	1,196	
	47	SS2610/SS2314	102" STEEL CASING PIPE (0.5" THICKNESS) / 108" STEEL LINER PLATE	LF	550	
	48	SS2441/SS2314	PIPE-JACKED TUNNEL/TUNNELING WITH LINER PLATE	LF	550	
	49	SS2610	102" STEEL CASING PIPE (0.5" THICKNESS)	LF	89	
	50	SS2441	PIPE-JACKED TUNNEL	LF	89	
	51	SS2314	108" STEEL LINER PLATE	LF	557	
	52	SS2314	TUNNELING WITH LINER PLATE	LF	557	
	53	857A	24" FRP (ASTM D-3262)(SN 72)(OPEN CUT 5'-10')	LF	43	
	54	857A	66" FRP (ASTM D-3262)(SN 72)(OPEN CUT 15'-20')	LF	67	
	55	857A	84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 10'-15')	LF	1,075	
	56	857A	84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 15'-20')	LF	4,940	
	57	857A	84" FRP (ASTM D-3262)(SN 72)(OPEN CUT 20'-25')	LF	525	
	58	857B	TESTING AND ACCEPTANCE OF FRP GRAVITY SEWER (ALL SIZES AND DEPTHS)	LS	1	
	59	858	CONCRETE ENCASEMENT (MIN STRENGTH, 2,000 PSI)	CY	4,126	
	60	413	FLOWABLE FILL	CY	351	
	61	862	ABANDON EXISTING SEWER MAIN (>15-INCH DIAMETER)	LF	7,706	
	62 63	862 864-S1	ABANDON EXISTING SEWER MAIN (<15-INCH DIAMETER) BYPASS PUMPING SMALL DIAMETER (<24")	LF LS	1	
	64	SP 864-S2	BYPASS PUMPING SMALL DIAMETER (<24) BYPASS PUMPING LARGE DIAMETER (>24")	LS	1	
	65	866	SEWER MAIN TV INSPECTION (ALL SIZES)	LS	8,080	
	66	866	SEWER MAIN TV INSPECTION (REE 3/263)	LF	7,776	
	67	910	MANHOLE REHABILITATION	SF	692	
	68	TP7-TP10	DRILL SEEDING (WITH NATIVE SEED MIXTURE)	SY	630,506	
$\sim$	$\stackrel{\scriptstyle \sim}{\sim}$					h .
$\square$	69	D-5	CONCRETE MANHOLE TOP SLAB	EA	<u> </u>	$\bigcup /1$
	70		ENVIRONMENTAL SERVICES, INCLUSIVE OF AIR MONITORING, WASTE CHARACTERIZATION,			
	70	SS 804A	(LABOR, LAB, OTHER DIRECT COSTS), REPORTING, AND ENVIRONMENTAL OVERSIGHT	LS	1	
			CLASS 1 SOIL WASTE DISPOSAL INCLUSIVE OF REMOVING, MANAGING, CHARACTERIZING,	TON	45.0	
	71	SS 804A	MANIFESTING, TRANSPORTING AND DISPOSING AT A PERMITTED LANDFILL	TON	156	
	70	55 8044	CLASS 2 SOIL WASTE DISPOSAL INCLUSIVE OF REMOVING, MANAGING, CHARACTERIZING,	TON	1 4 4 0	
	72	SS 804A	MANIFESTING, TRANSPORTING AND DISPOSING AT A PERMITTED LANDFILL	TON	1,440	
	73	SPTS 100A	INTERMEDIATE DEMOBILIZATION /REMOBILIZATION (OPEN-CUT CONSTRUCTION)	EA	2	
	74	SPTS 100B	INTERMEDIATE DEMOBILIZATION/REMOBILIZATION (TUNNEL CONSTRUCTION)	EA	2	
			BYPASS PUMPING DURING DEMOBILIZATION (SMALL DIAMETER)	DAY	30	
	75	864 C1 Z				
	75	864-S1.3	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	UAT		
	76	864-S1.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAT	30	
			INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING			
	76 77	864-S1.4 864-S1.5	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER)	DAY DAY	30 30	
	76 77 78	864-S1.4 864-S1.5 864-SP-S2.3	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL	DAY DAY DAY	30 30 30	
	76 77 78 79	864-S1.4 864-S1.5 864-SP-S2.3 864-SP-S2.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY DAY DAY DAY	30 30 30 30	
	76 77 78 79 80	864-S1.4 864-S1.5 864-SP-S2.3 864-SP-S2.4 864-SP-S2.5	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING	DAY DAY DAY DAY DAY	30 30 30 30 30 30	
	76 77 78 79	864-S1.4 864-S1.5 864-SP-S2.3 864-SP-S2.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING MONITORING BYPASS PUMPING DURING DEMOBILIZATION (LARGE DIAMETER) INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL	DAY DAY DAY DAY	30 30 30 30	

# SAWS GENERAL CONSTRUCTION NOTES

GENERAL SECTION

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE 1 ALL MATERIALS AND CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM(SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
  - A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1. CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE
  - T CHAPTER 217 AND PUBLIC DRINKING WATER, TAC TH 30 PART 1 CHAPTER 290. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE." CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION." C.
- CONSTRUCTION.
- CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR CONSTRUCTION." D. E.
- CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
- THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE,HTTP: //WWW.SAWS.ORG/BUSINESS\_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS. 2.
- 3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500, AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 72 HOURS PRIOR TO EXCAVATION.
- LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE, ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD 4 VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR 5. NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION
- SAN ANTONIO WATER SYSTEM: SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES

COSA DRAINAGE 210-206-8433 COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION. 6.
- ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY 7. RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN 9. APPROVED FLOOD PLAIN PERMIT.
- 10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.
- . HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE 11 SENT TO CONSTWORKREQ@SAWS.ORG.

WEEKEND WORK CONTRACTORS ARE REQUIRED TO NOTIFY THE ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PRÓPER INSPECTION.

- 12. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS (NSPI)
- 13. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS (NSPI).

14.	CONSTRUCTIO
	RESPONSIBIL
	INSTALLATION
	CONJUCTION
	CONSTRUCTIO
	MINIMIZE THE

WATER SECTION

SEWER SECTION

- - C. D

THE TCEQ AND SAWS.

- CHANGE ORDER.

EXCAVATION EQUIPMENT

OUR EXPLORATORY BORING LOGS ARE NOT INTENDED FOR USE IN DETERMINING CONSTRUCTION MEANS AND METHODS AND MAY THEREFORE BE MISLEADING IF USED FOR THAT PURPOSE. WE RECOMMEND THAT EARTH-WORK AND UTILITY CONTRACTORS INTERESTED IN BIDDING ON THE WORK PERFORM THEIR OWN TESTS IN THE FORM OF TEST PITS TO DETERMINE AND QUANTITIES OF THE DIFFERENT MATERIALS TO BE EXCAVATED, AS WELL AS THE PREFERED EXCAVATION METHODS AND EQUIPMENT FOR THIS SITE. BORINGS COMPLETED FOR THIS PROJECT ARE WIDELY SPACED AND THEREFORE SUBSURFACE MATERIALS AND CONDITIONS CAN AND LIKELY WILL VARY BETWEEN BORINGS. AT MARI AND SHALF BEDROCK WERE ENCOUNTERED IN OUR BORINGS AT MARL AND SHALE BEDROCK WERE ENCOUNTERED IN OUR BORINGS AT RELATIVELY SHALLOW DEPTHS, THUS THE NEED OF ROCK EXCAVATION EQUIPMENT SHOULD BE ANTICIPATED FOR CONSTRUCTION AT THIS SITE. HARD ROCK EXCAVATION COSTS ASSOCIATED WITH THIS WORK ARE INCIDENTAL TO PIPE INSTALLATION.

ION SEQUENCING: IT IS THE CONTRACTOR'S SOLE TY TO SCHEDULE SEQUENCING FOR REMOVAL AND IN OF EXISTING AND PROPOSED SAWS UTILITIES IN WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF ON ACTIVITIES SHALL BE CONSIDERED IN ORDER TO E EXTENT AND DURATION OF DISTURBANCES.

15. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE WORK ACCORDINGLY

SAWS PRODUCTION CONTROL CENTER 233-2016

16. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTUBRANCE OF THIS DIFF. OCCUPER DAVIENT FOR SUCCEMENTS. DISTURBANCE OF THIS PIPE OCCURS, PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, 'SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE'

17. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

18. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

DENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT 210 704-SAWS (210-704-7297). PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.

SOIL/MATERIALS.

SOIL/MATERIALS. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA.

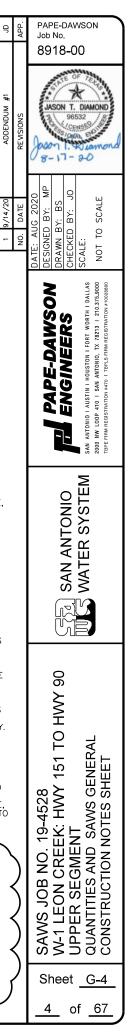
NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK, ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY

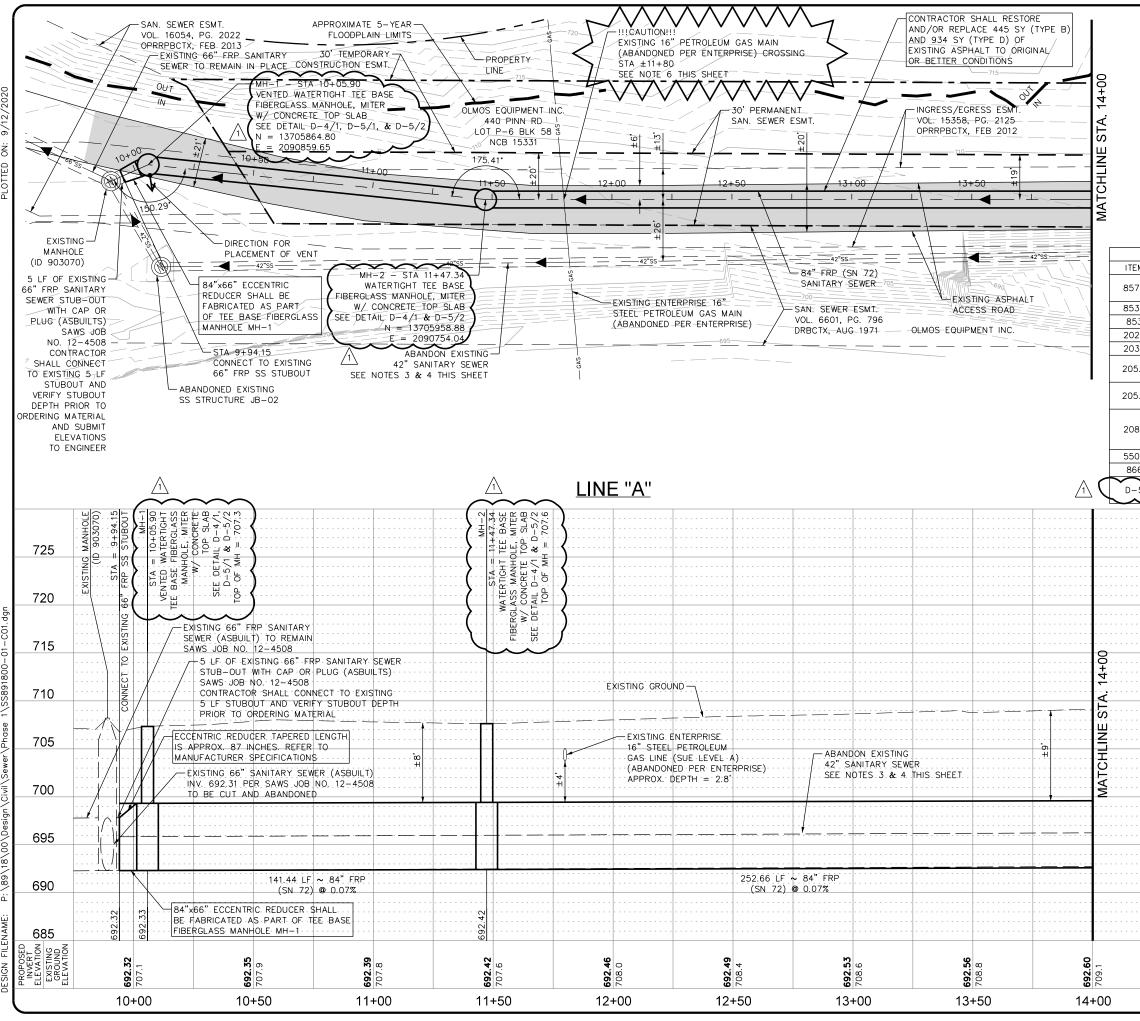
19 THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND THE CUNTRACTOR SHALL PROVIDE BTPASS POMPING OF SEMAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864 S-1A DND SP 864-S2, "BYPASS PUMPING". PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE BID ITEM "SANITARY SEWER (BYPASS PUMPING)"(LUMP SUM) AS PER SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

20. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

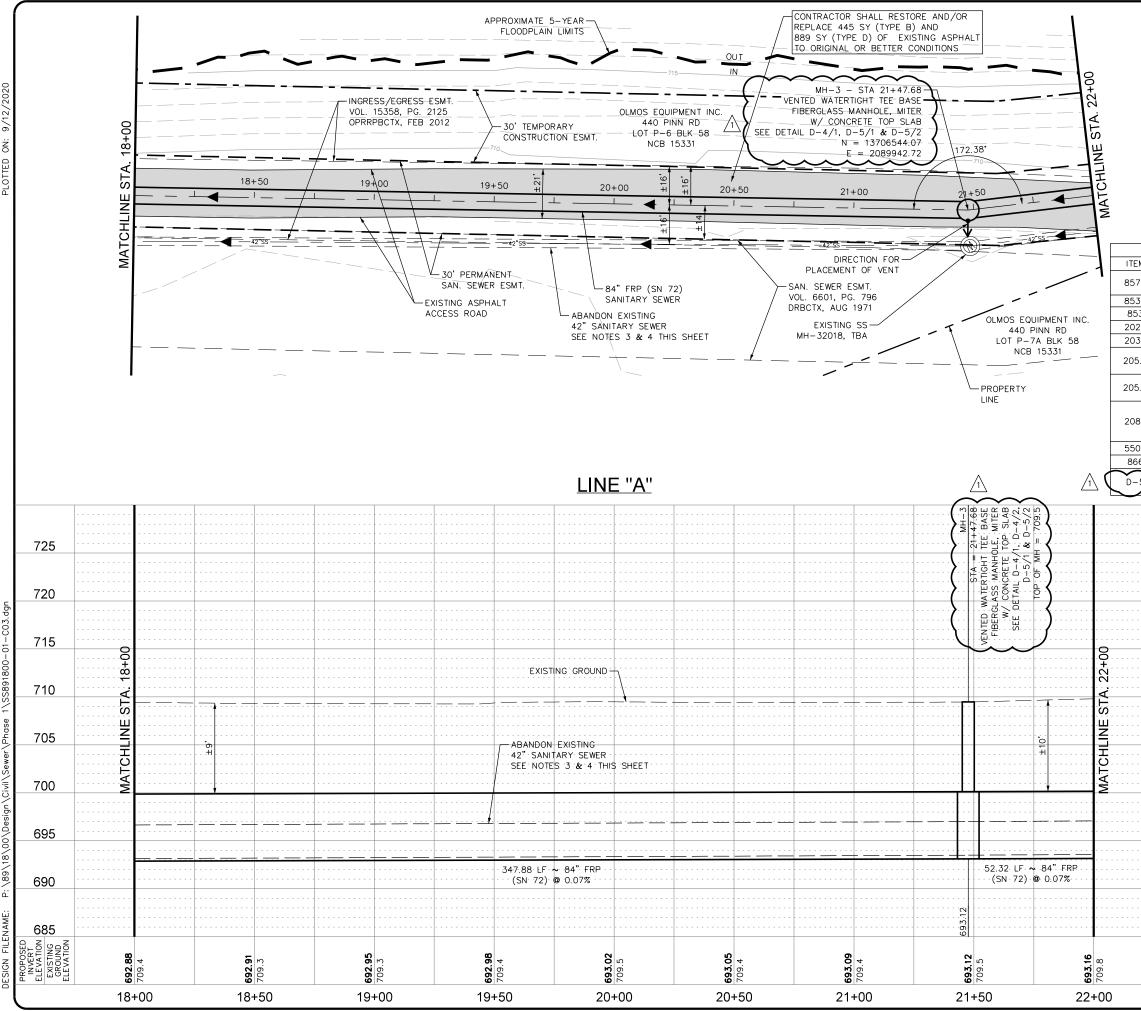
21. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE THE PROJECT'S IMPROVEMENTS (NSPI).

22. THE CONTRACTOR SHALL NOTIFY JUAN C. RAMIREZ AT (210) 233-3558 AND SAWS E.O.C. AT (210) 233-2015 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A

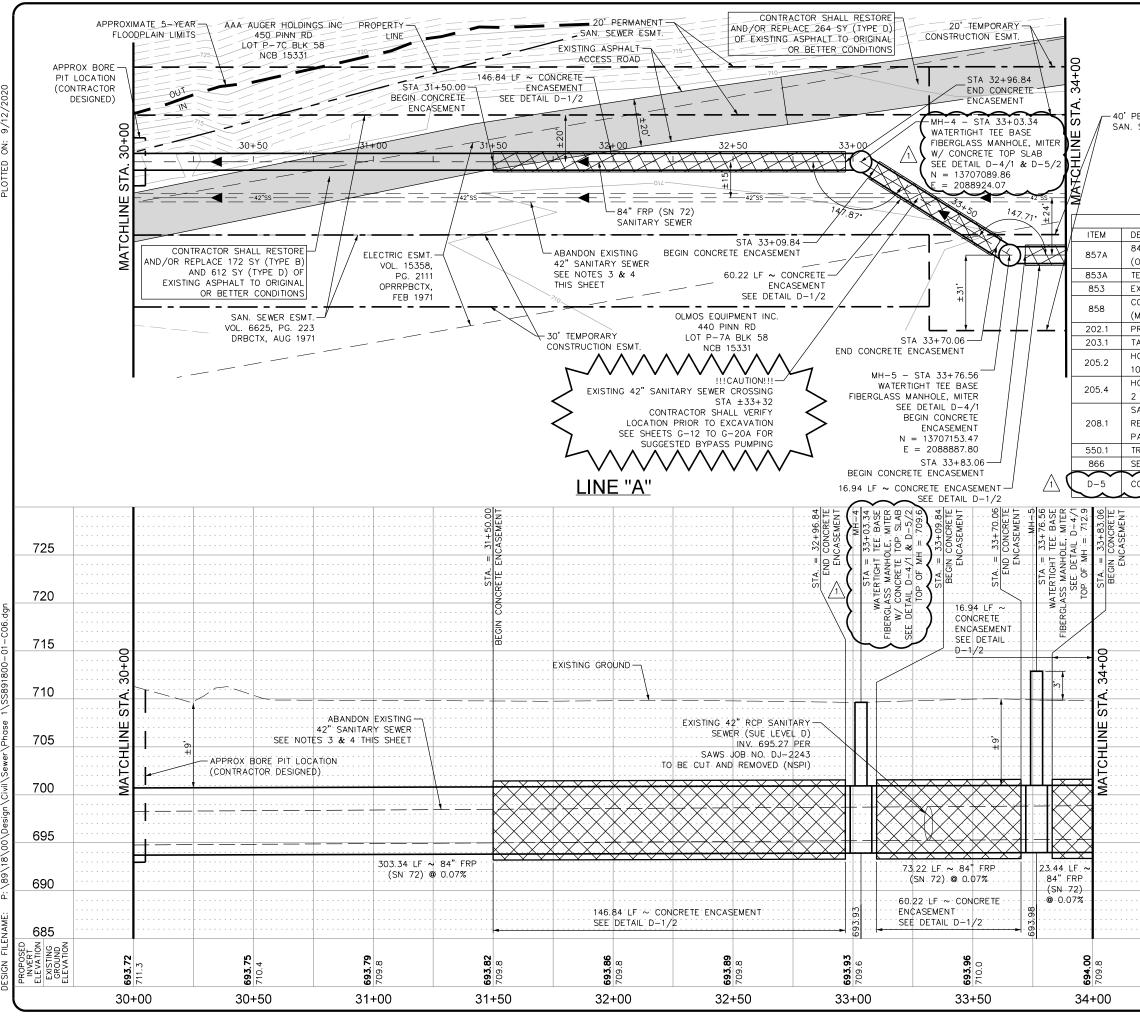




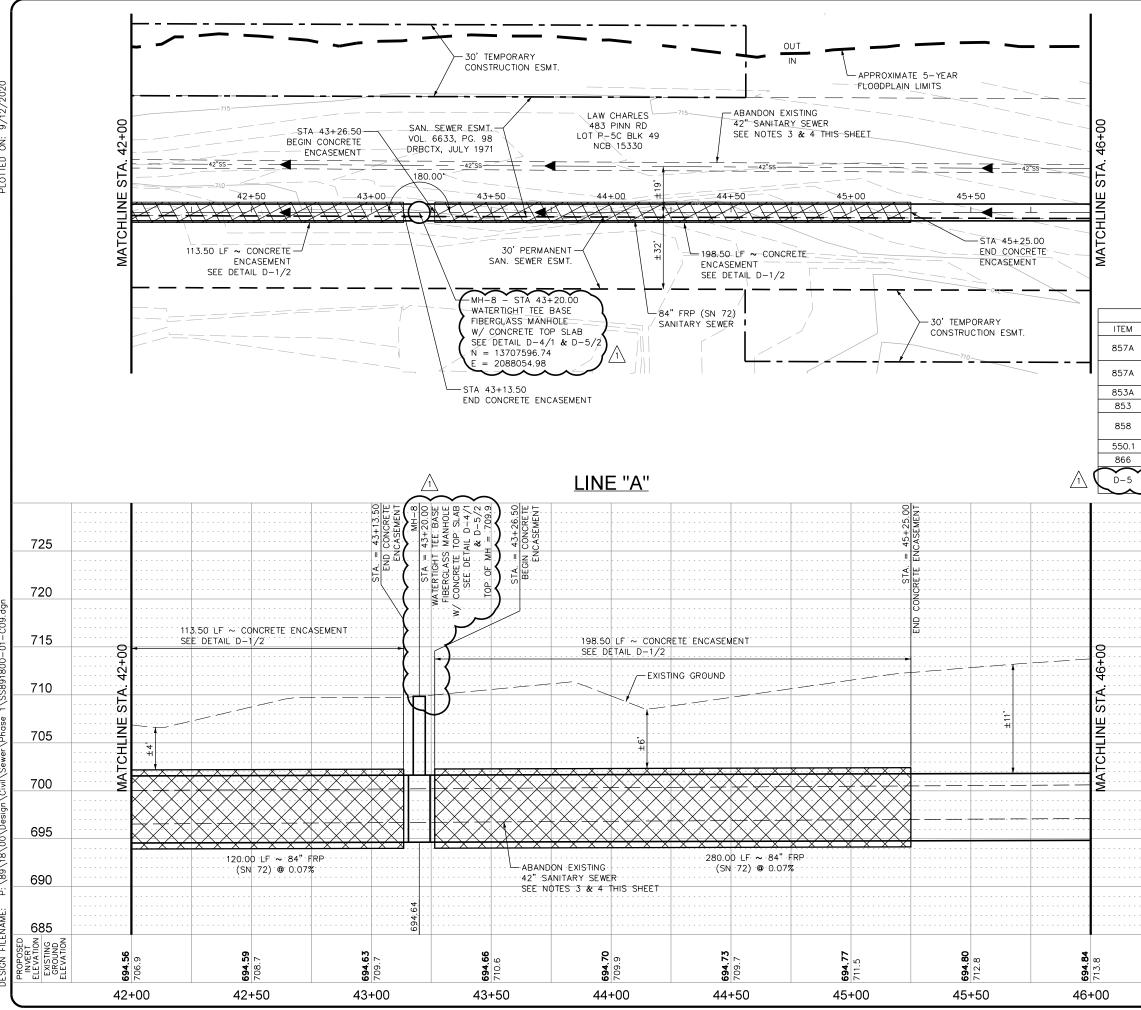
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		4			9	APP.	PAPE-DAWSON Job No.		
							8918-00		
		GRAPHIC SCALE IN HORIZONTAL 20 0 20 5 0 5 0 5 0 5 0 0 0 0 0 0 0 0 0 0 0 0		40 10	ADDENDUM #1	REVISIONS	JASON T. DIAMOND 96532 Jason T. Diamond 8-17-20		
		VERTICAL			1 9/14/20	NO. DATE	DATE: AUG 2020 DESIGNED BY: MP DRAWN BY: BS CHECKED BY: JO SCALE: 1"=40' HORZ 1"=10' VERT		
ΞM	DESCRIPTI	QUANTITY TABLE	UNIT	QU	ANTITY	,			
7A	84" FRP (	(ASTM D-3262)(SN 72)	LF		395		ALLAS 5.9000		
3A		T 15'–20') FIBERGLASS MANHOLE, MITER				_	210.37 210.87		
53		PTH TEE BASE MANHOLE, MITER	EA VF		2 18	-	T WOF		
2.1	PRIME CO		GAL		95				
3.1	TACK COA		GAL		95				
5.2	10 INCHES	SPHALT PAVEMENT TYPE B -	SY		445		APE-DA IGINEE IM ANTONIO, TX I SAM ANTONIO, TX I SAM ANTONIO, TX		
5.4	2 INCHES	SPHALT PAVEMENT TYPE D – PAVEMENT THICKNESS	SY		943		PP EN PP		
8.1	RECLAIMA	G, HAULING & STOCKPILING BLE ASPHALT (2 INCHES DEPTH)	SY		943		PAPE-DAWSON BAR ANTONIO I AUSTINI HOUSTON I FORT WORTH I DALLAS SAM ANTONIO I AUSTINI HOUSTON I FORT WORTH I DALLAS 2000 UN LOOP 410 I SAM ANTONIO, 17, 7273 I 210.375.9000 2000 UN LOOP 410 I SAM ANTONIO, 17, 7273 I 210.375.9000		
0.1		XCAVATION SAFETY PROTECTION	LF		405				
56	SEWER MA	NIN TV INSPECTION		$\vdash$	405	-			
-5		MANHOLE TOP SLAB	EA		2	)	STIC		
	720	NOTES: 1. CONTRACTOR SHALL REFER PRESERVATION PLAN SHEET: FOR TREE REMOVAL AND PF 2. CONTRACTOR MAY ENCOUNT OF GROUND WATER DURING CONTRACTOR SHALL REFER SUPPLEMENTARY SPECIFICAT CONTROL OF GROUND WATE	S TP-1 RESERV ER THE CONST TO THI TONS F R.	TO ATIC E PF RUC E OR	TP-1 N. RESENC	СE	도전 SAN ANTONIO 반당 WATER SYSTEM		
	715	<ol> <li>CONTRACTOR SHALL REFER TO G-23 FOR ABANDONMEN AND QUANTITIES.</li> </ol>				1			
	710	<ol> <li>CONTRACTOR SHALL PROTEC SANITARY SEWER DURING CO OF PROPOSED SANITARY SE</li> <li>ENTIRE AREA SHOWN ON TH IS IN THE 100-YEAR FLOOD</li> </ol>	ONSTRU WER M IIS PLA	JCTI AIN.	NC		151 TO HWY 90 E		
	705	<ol> <li>6. PRIOR TO CONSTRUCTION, T SHALL FIELD VERIFY THE LC DEPTH OF THE EXISTING GA CONTRACTOR SHALL REPOR</li> </ol>	HE CON CATION	1 AN			151 TO :		
	700	ENGINEERS, ANY DEVIATION LOCATION OR ELEVATION.			Ν				
	695						NO. 19-4528 REEK: HW/ MENT AND PROFI O STA 14+00		
	<u>690</u> 685						SAWS JOB NO. 19-4528 W-1 LEON CREEK: HWN UPPER SEGMENT LINE "A" PLAN AND PROFIL STA 9+94.15 TO STA 14+00		
	PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION						Sheet C-1		
	ELE ELE						24_ of _67_		



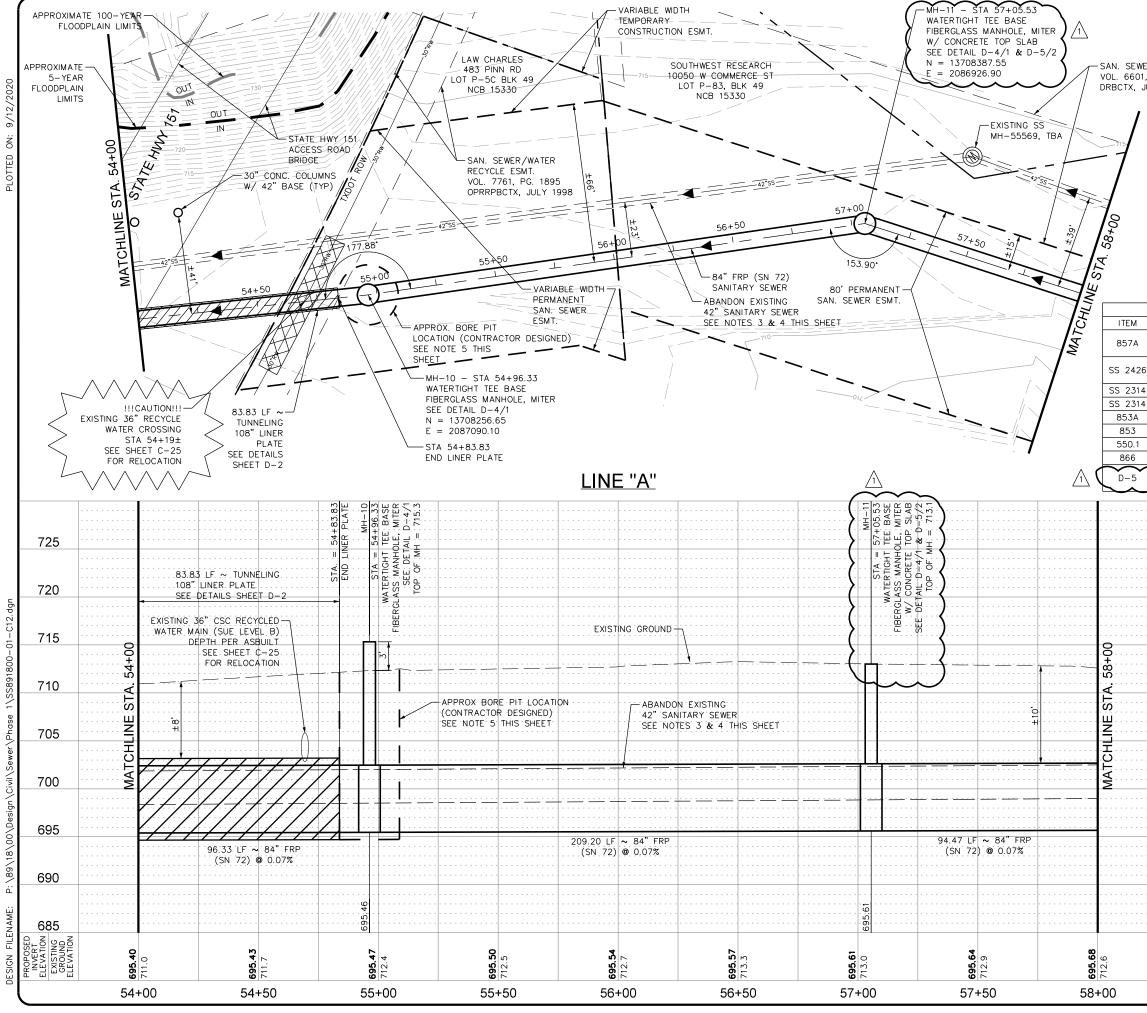
		4			9	APP.	PAPE-DAWSON Job No.
							8918-00
		GRAPHIC SCALE IN HORIZONTAL 20 0 20 5 0 5 VERTICAL		40 10	ADDENDUM #1	REVISIONS	Juson T. Diamond Juson T. Diamond Juson T. Diamond 8-17-20
		QUANTITY TABLE			1 9/14/20	NO. DATE	DATE: AUG 2020 DESIGNED BY: MP DRAWN BY: BS CHECKED BY: JO SCALE: 1"=40' HORZ 1"=10' VERT
ЕМ	DESCRIPTIC	N	UNIT	QU	ANTITY	ŕ	
7A	84" FRP ( (OPEN CU	ASTM D-3262)(SN 72) T 15'-20')	LF		400		AWSON EERS IFORT WORTH I DALLAS IN TERISTINATION #10220200
3A	TEE BASE	FIBERGLASS MANHOLE, MITER	EA		1		S S S I S S S S S S S S S S S S S S S S
53 2.1	EXTRA DEF	PTH TEE BASE MANHOLE	VF GAL		11 89	_	REGISTING
3.1	TACK COA		GAL		89	-	<b>F-DAI</b> NEE
5.2	10 INCHES	SPHALT PAVEMENT TYPE B – PAVEMENT THICKNESS	SY		445		PAPE-DAWSON A ENGINEERS AM ANTONIO I AUSTINI HOUSTON I FORT WORTH I DALLAS 2000 NW LODP 410 I SAN ANTONIO, TX 78213 I 210.375,3000 TEPE FIRM REDISTRATION 4470 I TEPLS FIRM REDISTRATION 410028000
5.4	2 INCHES	SPHALT PAVEMENT TYPE D – PAVEMENT THICKNESS , HAULING & STOCKPILING	SY		889		EN III I AUSTI DOP 410 I ECISTRATION
8.1	RECLAIMAE	(2 INCHES DEPTH)	SY		889		SAN ANTO SAN ANTO 2000 NW LI
0.1		XCAVATION SAFETY PROTECTION	LF		400		
56 -5	$\sim$	IN TV INSPECTION MANHOLE TOP SLAB	EA	$\vdash$	400		Щ Щ
	725 720	NOTES: 1. CONTRACTOR SHALL REFER PRESERVATION PLAN SHEET FOR TREE REMOVAL AND PF 2. CONTRACTOR MAY ENCOUNT OF GROUND WATER DURING CONTRACTOR SHALL REFER SUPPLEMENTARY SPECIFICAT CONTROL OF GROUND WATE	S TP-1 RESERV ER THE CONST TO THI TONS F	I TC ATIC E PF RUC E	) TP-1 )N. RESEN(		로친 SAN ANTONIO
	715	<ol> <li>CONTRACTOR SHALL REFER TO G-23 FOR ABANDONMEN AND QUANTITIES.</li> </ol>				1	
	710	<ol> <li>CONTRACTOR SHALL PROTECT SANITARY SEWER DURING CO OF PROPOSED SANITARY SE</li> <li>ENTIRE AREA SHOWN ON THE ISSUE OF THE SHOWN ON THE ISSUE OF T</li></ol>	ONSTRU WER M IIS PLA	JCTI AIN.	ON		4528 HWY 151 TO HWY 90 toFILE +00
	705	IS IN THE 100-YEAR FLOOD	PLAIN.				1 TO
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	690 685						SAWS JOB NO. 19-4528 W-1 LEON CREEK: HWY UPPER SEGMENT LINE "A" PLAN AND PROFIL STA 18+00 TO STA 22+00
	PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION						Sheet <u>C-3</u>
	w						<u>_26</u> of <u>_67</u>



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		BASE MANHOLE	VF	23			AWSON EERS 1 FORT WORTH I DALLAS TX 78213 I 210.375,5000 MM RECISTRATION #1023800
	RETE ENCASE		CY	409			SS
	STRENGTH, 2	,000 PSI)	GAL	88			AN ER X 78210 A REGIST
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		PAVEMENT TYPE B ENT THICKNESS	SY	172			PE-D GINE GINE ATO I TEPLS FIL
		PAVEMENT TYPE D – NT THICKNESS	SY	876			EN EN 1 AUSTIN 1 AUSTIN 1 AUSTIN
RECLA	AGING, HAULIN AIMABLE ASPH MENT (2 INCH		SY	876			PAPE-DAWSON ALANDONO I AUSTINI HOUSTON I FORT WORTH I DALLAS SAM ANTONIO I AUSTINI HOUSTON I FORT WORTH I DALLAS 2000 NW LOOP 410 I SAM ANTONIO, TX 78219 I 201375,900 TOPE FIRM REGISTRATION 4470 I TEPLS FIRM REGISTRATION 41020800
		ON SAFETY PROTECTION	LF	400			
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	725 720	NOTES: 1. CONTRACTOR SHALL PRESERVATION PLAY FOR TREE REMOVAL 2. CONTRACTOR MAY E OF GROUND WATER CONSTRUCTION. CON THE SUPPLEMENTAR CONTROL OF GROUN 3. CONTRACTOR SHALL	N SHEE AND I ENCOUN & SUF NTRACT Y SPE ND WAT	TS TP-1 TO PRESERVATI NTER THE P FACE WATE OR SHALL I CIFICATIONS FER.	O TP- ON. RESEN R DUR REFER FOR	CE ING TO	도 SAN ANTONIO US WATER SYSTEM
	715	TO G-23 FOR ABAN AND QUANTITIES.					0
	710	4. CONTRACTOR SHALL SANITARY SEWER DI OF PROPOSED SANI	URING TARY S	CONSTRUCT SEWER MAIN	ION		. 151 ТО НWY 90 Е
· · · · ·	705	5. ENTIRE AREA SHOW IS IN THE 100-YEA			SHEET		TOF
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	090						3 NO. CRE GME AN AN FO ST
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	PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION						Sheet <u>C-6</u>
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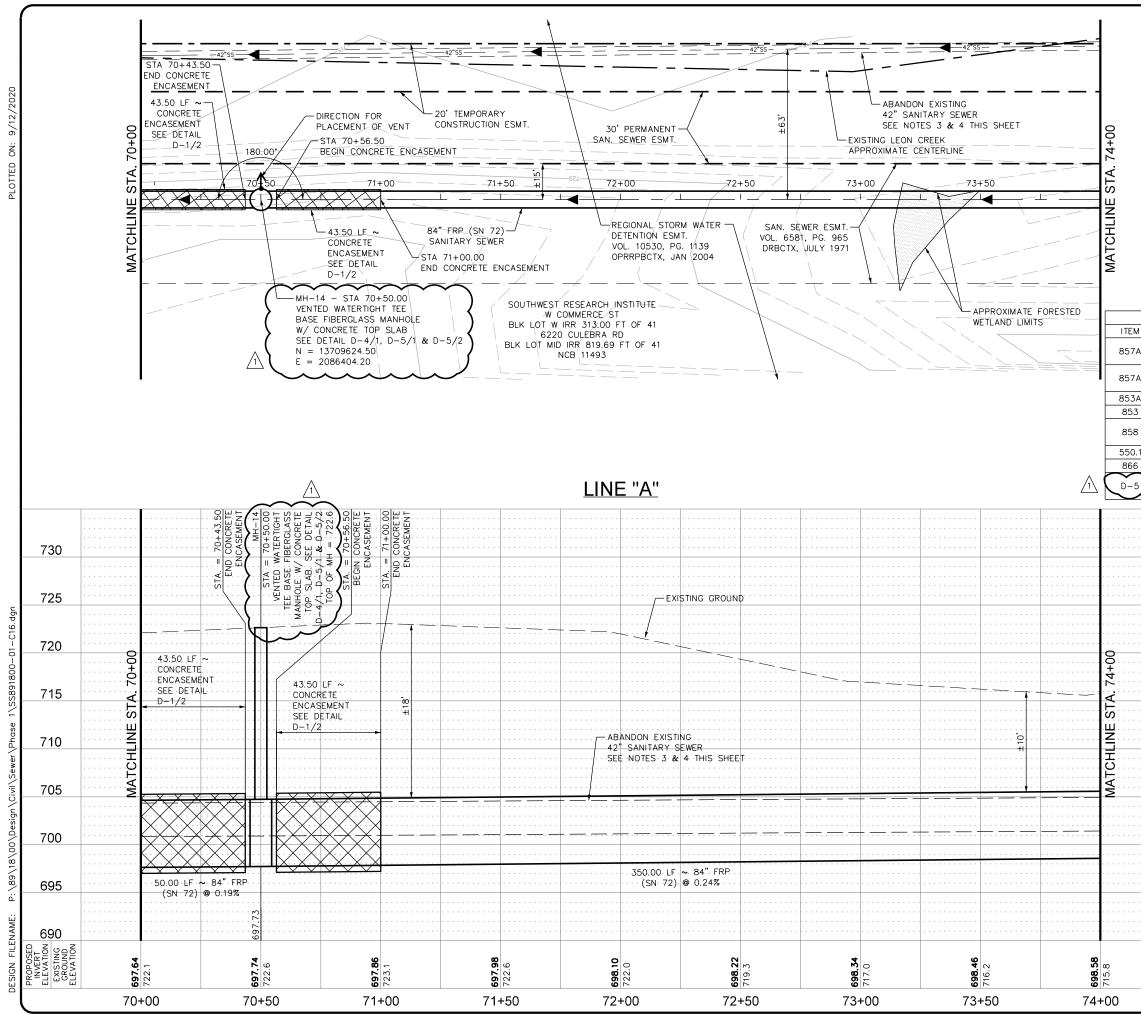


		4	APP.	PAPE-DAWSON Job No.
				8918-00
		GRAPHIC SCALE IN FEET HORIZONTAL 20 0 20 40 5 0 5 10 VERTICAL	REVISIONS	JUSON T. DIAMOND 96532 9654 9654 9654 9654 9654 9654 9654 9654
				MP OC
		9/14/20	DATE	AUG 2020 ED BY: M BY: BS ED BY: JC D' HORZ
		-	NO.	
				DATE: DESIGN DRAWN CHECK SCALE 1"= 4 1"= 1
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4	84" FRP (AS (OPEN CUT	STM D-3262)(SN 72) 15'-20') LF 150	]	AP VG I H H I SAN J ON #470
4	TEE BASE F	BERGLASS MANHOLE EA 1		ELAUS DP 410 BISTRATI
	EXTRA DEPT CONCRETE E	H TEE BASE MANHOLE VF 10	_	ANTONI NW LO
	(MIN STRENG	GTH, 2,000 PSI)		SAN ANT SAN ANT 2000 NW TBPE FIRM
1		AVATION SAFETY PROTECTION         LF         400           TV INSPECTION         LF         400	_	v
, <b>^</b>	$\sim$	IANHOLE TOP SLAB EA 1		OLEA
	725 720	<ul> <li>NOTES:</li> <li>1. CONTRACTOR SHALL REFER TO THE TREE PRESERVATION PLAN SHEETS TP-1 TO TP-10 FOR TREE REMOVAL AND PRESERVATION.</li> <li>2. CONTRACTOR MAY ENCOUNTER THE PRESENC OF GROUND WATER DURING CONSTRUCTION. CONTRACTOR SHALL REFER TO THE SUPPLEMENTARY SPECIFICATIONS FOR CONTROL OF GROUND WATER.</li> <li>3. CONTRACTOR SHALL REFER TO SHEETS G-21</li> </ul>	E	중징 SAN ANTONIO 반당 WATER SYSTEM
	715	TO G-23 FOR ABANDONMENT PLAN, NOTES AND QUANTITIES.		ο
	710	<ol> <li>CONTRACTOR SHALL PROTECT EXISTING 42" SANITARY SEWER DURING CONSTRUCTION OF PROPOSED SANITARY SEWER MAIN.</li> </ol>		′ 151 ТО НWY 90 Е
		5. ENTIRE AREA SHOWN ON THIS PLAN SHEET IS IN THE 100-YEAR FLOODPLAIN.		Η
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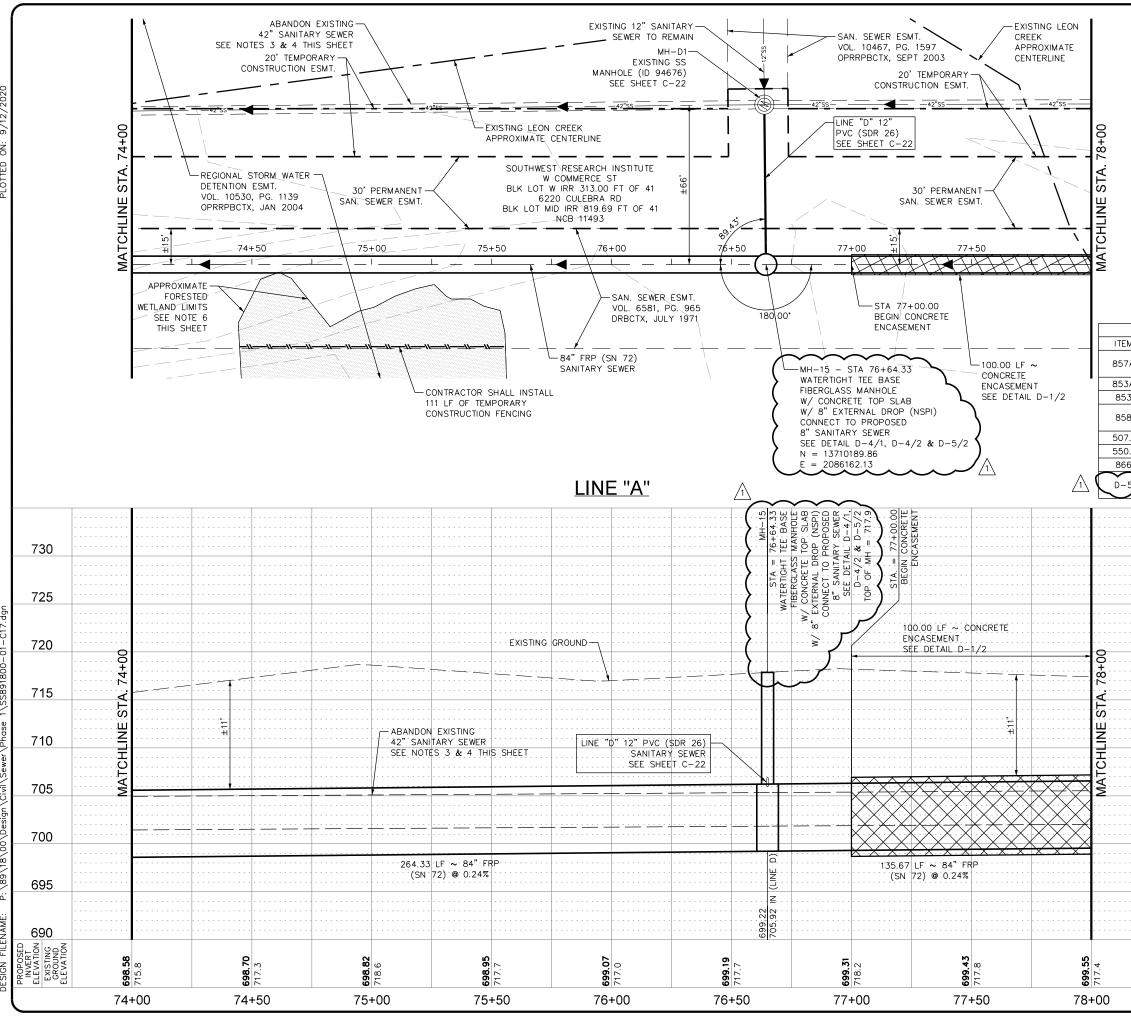


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		4				9	APP.		PE-DA	WSON		
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)1, F	ESMT. YG. 794 Y 1971	GRAPHIC SCALE IN HORIZONTAL 20 0 20 5 0 5 VERTICAL	D	40 10		ADDENDUM #1	REVISIONS	Jan Bar	ASON T	DIAM 532 NSE 2-0	DND mond	
						1 9/14/20	NO. DATE	DATE: AUG 2020 DESIGNED RY- MP	S N	SCALE:	1"=40' HORZ 1"=10' VERT	
							7	NOan	FAFE-DAWSON ENGINEERS	SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS	000 NW LOUP 410 I SAM MIDNUD, 17.78213 I 2.10.373-9000 BPE FIRM RECISTRATION #470 I TBPLS FIRM RECISTRATION #1002800	
Т	DESCRIPTION	QUANTITY TABLE	UNIT	QU.	ANT	ITY	+			FORT W	A / 821. M REGIS:	
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26	CARRIER PIPI	E IN TUNNELS	LF		84				12	UOH I N	4470 I T	
4	84" FRP (AS 108" STEEL I	TM D-3262)(SN 72)	LF		84		-		ĨŽ	I AUSTII	TRATION	
4	TUNNELING W	/ITH LINER PLATE	LF		84					TONIO	M REGIS	
+		BERGLASS MANHOLE, MITER 1 TEE BASE MANHOLE	E A VF	$-\epsilon$	26	)	_			AN AN	BPE FIR	
		AVATION SAFETY PROTECTION	LF	$\overline{\Lambda}$	316					<b>S</b> 0	N F	
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	CONCRETE M	ANHOLE TOP SLAB	EA	Ť	1	)			0	Ë		
	725 720	NOTES: 1. CONTRACTOR SHALL REFE PRESERVATION PLAN SHEE FOR TREE REMOVAL AND 2. CONTRACTOR MAY ENCOU OF GROUND WATER DURIN CONTRACTOR SHALL REFE SUPPLEMENTARY SPECIFIC CONTROL OF GROUND WAT 3. CONTRACTOR SHALL REFE	ETS TP- PRESER NTER TH IG CONS R TO TH ATIONS TER.	1 TC VATIO IE PI TRUC IE FOR	) TF DN. RESE TIOI	ENC N.	Έ		SAN ANTONIO WATER SYSTEM			
	715	TO G-23 FOR ABANDONM AND QUANTITIES. 4. CONTRACTOR SHALL PROT	ENT PLA	N, N STIN	IOTE G 4:	S			06			
	710	SANITARY SEWER DURING OF PROPOSED SANITARY							₹			
	705	<ol> <li>CONTRACTOR NEEDS TO A TUNNEL SHAFT TO PREVEI BACKFILL OF EXISTING 42 SEWER MAIN.</li> </ol>	NT DISTU	JRBI	١G				151 TO HWY 90			
· · · ·	700	<ol> <li>ENTIRE AREA SHOWN ON IS IN THE 100-YEAR FLOG</li> <li>ACCESS TO SOUTHWEST R</li> </ol>	ODPLAIN.				Ξ					
		IS LIMITED TO THE ACQUIF EASEMENTS SHOWN ON PI			HER	2		19-4528	Í	PROFI	58+0(	
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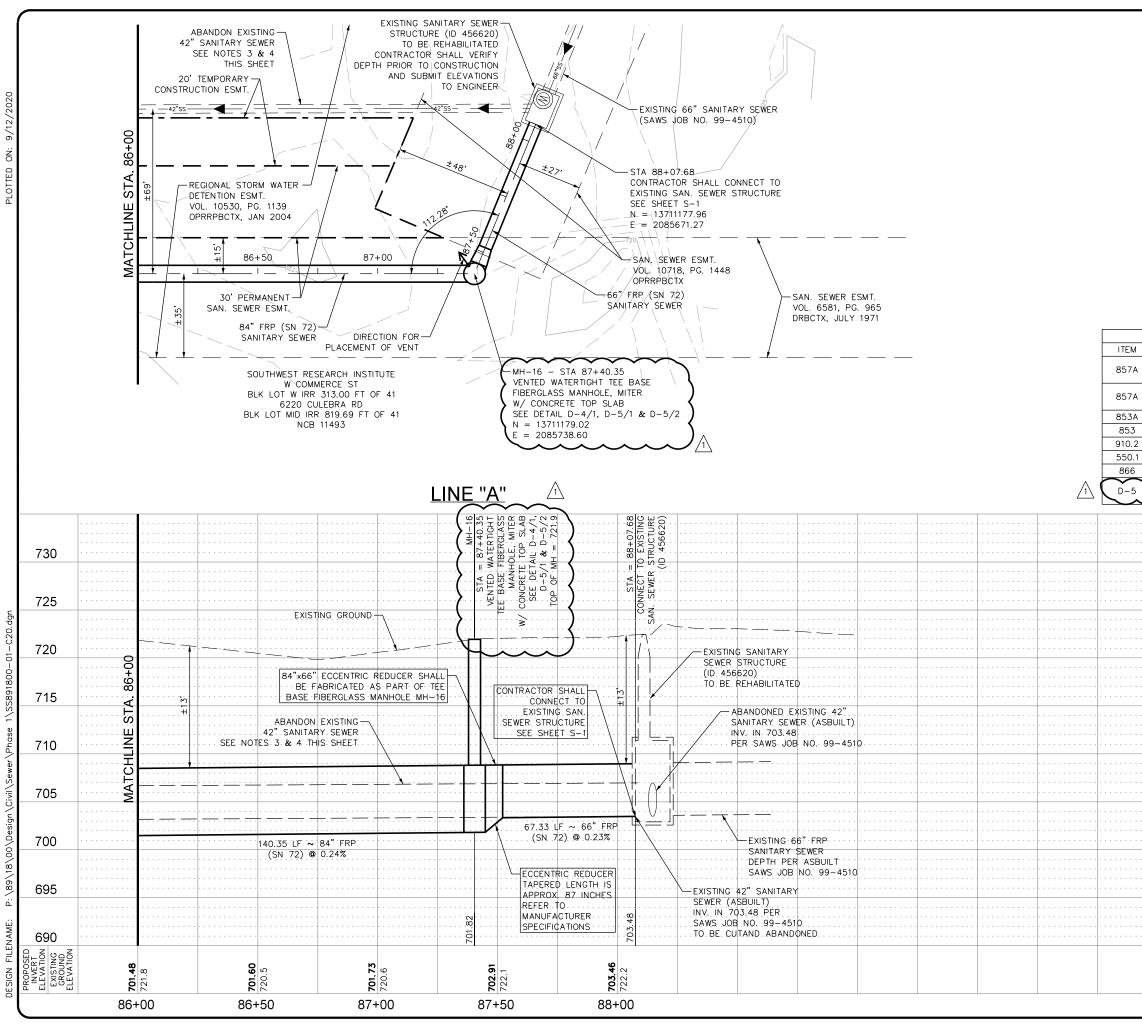
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					9	APP.	PAPE-DAWSON Job No.	
							8918-00	
		GRAPHIC SCALE I HORIZONTAI 20 0 2	L	40 10	) ADDENDUM #1	REVISIONS	96532 96532 9654 9654 9654 9654 9654 9654 9654 9654	
					1 9/14/20	NO. DATE	DATE: AUG 2020 DESIGNED BY: M DRAWN BY: BS CHECKED BY: JC SCALE: 1"=40' HORZ 1"=10' VERT	
		QUANTITY TABLE				7	A ATONIO I AUSTINI HOUSTON LA ATONIO I AUSTINI HOUSTON LOOP 410 I AUSTINI HOUSTON LEOFT WOTHI I AULAS 2000 NW LOOP 410 I SAM ANTONIO, TY 72213 I 210.375 9000 TEPE FIRM REGISTRATION 4470 I TEPE FIRM REGISTRATION 44202000	
М	DESCRIPTION		UNIT	QU,	ANTITY		AV EF	
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'A	84" FRP (AS	STM D-3262)(SN 72)	LF		275		PE GI IN I HOL SAN ANT L #470 I T	
iA .	(OPEN CUT :	20'-25') BERGLASS MANHOLE	EA		1	-	EN AUSTI AUSTI AUSTION	
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).1	•	TH, 2,000 PSI) AVATION SAFETY PROTECTION	LF		400	-	SA SA TB	
6		TV INSPECTION	LF		400		5	
5	CONCRETE M	IANHOLE TOP SLAB	EA	$\sim$	1		οĒ	
	730       NOTES:         1. CONTRACTOR SHALL REFER TO THE TREE         PRESERVATION PLAN SHEETS TP-1 TO TP-10         FOR TREE REMOVAL AND PRESERVATION.         2. CONTRACTOR MAY ENCOUNTER THE PRESENCE         OF GROUND WATER DURING CONSTRUCTION.         CONTRACTOR SHALL REFER TO THE         SUPPLEMENTARY SPECIFICATIONS FOR         CONTROL OF GROUND WATER.					도등 SAN ANTONIO		
	720	<ol> <li>CONTRACTOR SHALL REFE TO G-23 FOR ABANDONN AND QUANTITIES.</li> </ol>					o	
	715	4. CONTRACTOR SHALL PRO SANITARY SEWER DURING OF PROPOSED SANITARY	CONSTR	UCTI			6 XV	
		5. ENTIRE AREA SHOWN ON IS IN THE 100-YEAR FLC 5-YEAR FLOODPLAIN.					LO H	
	710	6. ACCESS TO SOUTHWEST			STITUTI	E	11	
	705	IS LIMITED TO THE ACQUI EASEMENTS SHOWN ON F ACCESS WILL BE ALLOWE	PLANS, NO		HER		4528 НWY 151 TO HWY 90 коFILE -00	
	705						19-4528 EK: HWY NT D PROFIL A 74+00	
							0. 19-4 EEK: I ENT ND PR ND PR TA 74+	
	700						IO. 19-452 REEK: HV MENT AND PROF STA 74+00	
	695 690						SAWS JOB NO. W-1 LEON CREI UPPER SEGME LINE "A" PLAN AN STA 70+00 TO ST/	
	PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION						Sheet <u>C-16</u>	
	8- <u>1</u> 01						_ <u>39_</u> of _67_	



					9	APP.	PAPE-DAWSON Job No.		
							8918-00		
		GRAPHIC SCALE IN HORIZONTAL 20 0 20 5 0 5 VERTICAL		40 10	ADDENDUM #1	REVISIONS	JASON T. DIAMOND 96532 Jason T. Rismond 8-17-20		
					1 9/14/20	NO. DATE	DATE: AUG 2020 DESIGNED BY: MP DRAWN BY: BS CHECKED BY: JO SCALE: 1"=40' HORZ 1"=10' VERT		
		QUANTITY TABLE					A BAPE-DAWSON BA ENGINEERS AN ANTONIO I AUSTIM I HOUSTOM I FORT WORTH I DALLAS 2000 INV LODP 410 I SAN ANTONIO, TY SETSI I 2103253000 TEPE FIRM REGISTRATION 4770 I TEPLS FIRM REGISTRATION 41002000		
M	DESCRIPTION		UNIT	QU	ANTITY	4			
7A	84" FRP (A (OPEN CUT	STM D-3262)(SN 72) 15'-20')	LF		400				
3A		IBERGLASS DROP MANHOLE	EA			$\neg$			
3	EXTRA DEPT	TH TEE BASE MANHOLE	VF		13				
8	CONCRETE E		CY		183				
7.1	•	GTH, 2,000 PSI) CONST. FENCE (4' HIGH)	LF		111	-	SAN AI		
D.1		CAVATION SAFETY PROTECTION	LF		400				
6	SEWER MAIN	TV INSPECTION	Ŀ (		400		Σ		
5	CONCRETE N	ANHOLE TOP SLAB	ΕA	•		$\mathbf{V}$	으쁜		
	730 725	2. CONTRACTOR MAY ENCOUNTER THE PRESENCE OF GROUND WATER DURING CONSTRUCTION.					로친 SAN ANTONIO		
	720	<ol> <li>CONTRACTOR SHALL REFE TO G-23 FOR ABANDONM AND QUANTITIES.</li> </ol>				1	0		
	715	<ol> <li>CONTRACTOR SHALL PROT SANITARY SEWER DURING OF PROPOSED SANITARY SECTION</li> </ol>	CONSTRU	JCTI			151 ТО НWY 90 Е		
		5. ENTIRE AREA SHOWN ON IS IN THE 100-YEAR FLOO					Ξ		
	740	5-YEAR FLOODPLAIN.	SOI LININ				10		
	710	6. APPROXIMATE FORESTED N CONTRACTOR SHALL INSTA				IC	2		
		CONSTRUCTION FENCING (	APPROXI	MATE	ELY 4'		ц Ц		
	705	TALL) ALONG BOUNDARY VIEW OF FORRESTED WETL				R	H528 HWY COFILE -00		
		SHALL NOT DISTURB FENC	ED ARE	۹.					
		<ol> <li>ACCESS TO SOUTHWEST R IS LIMITED TO THE ACQUIF</li> </ol>			STITUT	Ε	19-4 EK: F NT D PR( A 78+(		
	700	EASEMENTS SHOWN ON PL ACCESS WILL BE ALLOWED	ANS, NO		HER		・       ラ		
		ACCESS WILL BE ALLOWED					JOB NO ON CRE SEGME PLAN AI 00 TO S1		
	605						A N N N N N N N N N N N N N N N N N N N		
	695								
	690						SAWS W-1 LE UPPEF LINE "A' STA 74+		
	PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION						Sheet C-17		
	PROI INVI ELEV GR(S								
							40 of 67		



					⊆	APP.	PAPE-D. Job No.	PAPE-DAWSON Job No.			
									8918-00		
GRAPHIC SCALE I HORIZONTA 20 0 2						40 10	ADDENDUM #1		Juson T. Diamond		
							1 0/14/20	NO. DATE	IG 202 BY: Y: BS	CHECKED BY: JO SCALE: 1"=40' HORZ 1"=10' VERT	
QUANTITY TABLE M DESCRIPTION UNIT QUANTITY									PAPE-DAWSON BAPE-DAWSON AMTONIO   AUSTINI   HOUSTON   FORT WORTH   DALLAS 2000 NW LOOP 410   AMA ANTONIO, TX 72231   210.375.9000 TEPE FIRM REGISTRATION 4470   TEPLS FIRM REGERTATION 47022800		
7A	84" FRP (ASTM D-3262)(SN 72) (OPEN CUT 15'-20')				LF	141		ų́š	I HOUS1 N ANTO 70 I TBP		
7A	66"F	LF	67				AUSTIN 110 I SA 1ATION #4				
3A	(OPEN TEE B	EA				TONIO I LOOP 4 IREGISTE					
3	EXTRA	VF				-1-	SAN ANT 2000 NW TBPE FIRM				
.∠ ).1	MANHOLE REHABILITATION SF TRENCH EXCAVATION SAFETY PROTECTION LF						692 208	_		= 20 S/	
6	SEWER MAIN TV INSPECTION LF 208								SAN ANTONIO WATER SYSTEM		
5		EA 1									
	NOTES:           1. CONTRACTOR SHALL REFER TO THE TH           730           PRESERVATION PLAN SHEETS TP-1 TO           FOR TREE REMOVAL AND PRESERVATION					) TP- DN.		AN AN ATER			
	725		2.	CONTRACTOR MAY ENCOU OF GROUND WATER DURIN CONTRACTOR SHALL REFE SUPPLEMENTARY SPECIFIC	NG CONSTRUCTION. ER TO THE CATIONS FOR			× sv			
	72	720		CONTROL OF GROUND WATER. 3. CONTRACTOR SHALL REFER TO SHEETS G-21 TO G-23 FOR ABANDONMENT PLAN, NOTES AND QUANTITIES.							
	71	<ul> <li>4. CONTRACTOR SHALL PROTECT EXISTING 42 SANITARY SEWER DURING CONSTRUCTION</li> <li>715 OF PROPOSED SANITARY SEWER MAIN.</li> </ul>				ON		06 ₩			
	71	5. ENTIRE AREA SHOWN ON THIS PLAN SHEET IS IN THE 100-YEAR FLOODPLAIN AND 5-YEAR FLOODPLAIN.						151 TO HWY 90 E SHEET			
	705		<ol> <li>ACCESS TO SOUTHWEST RESEARCH INSTITUTE IS LIMITED TO THE ACQUIRED SAWS EASEMENTS SHOWN ON PLANS, NO OTHER ACCESS WILL BE ALLOWED.</li> </ol>					、			
	105							19-4528 К. НWY 1 П PROFILE 88+07.68			
	700		-					IO 19- REEK MENT AND PF STA 88			
	695 690		-						SAWS JOB NO. 19-4528 W-1 LEON CREEK: HWY	IPPER SEGM INE "A" PLAN A TA 86+00 TO S	
		PROPOSED INVERT ELEVATION EXISTING GROUND ELEVATION								ארר t C-20	
	625								Sheet <u>C-20</u> 43 of 67		
	PROP INVE ELEV	ELEGR							12		

