



**CENTRAL SEWERSHED PACKAGE 14 – CIPP (LD)**  
**Solicitation Number: CO-00524**  
**Job No.: 20-4510**

**ADDENDUM 1**  
**March 4, 2022**

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid 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 bid proposal.

<b>RESPONSES TO QUESTIONS</b>
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- 1. CIPP standard specification section 901.4-3.e.6 requires a soil modulus of 500 psi be used in the CIPP thickness designs, but this soil modulus is overly conservative and will produce CIPP thicknesses that are thicker than needed, which will increase the difficulty of installation and overall project cost. On previous projects, this section has been replaced with language saying the Contractor was allowed to submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values were part of the sealed calculations, the calculation method complied with ASTM F1216, and the soil modulus utilized did not exceed 1,000 psi. Please confirm that the Contractor will again be allowed to use values other than 500 psi for the soil modulus on this project.**

*Response:*

*Please see Changes to Specifications section, item 4, below.*

- 2. CIPP standard specification section 901.4-3.e.7 specifies that the groundwater to be used in the CIPP thickness designs shall be at the ground surface or the elevation of the 100-year floodplain, whichever is greater. On previous projects, this section has been modified so that the reference to floodwater being used as a design parameter has been deleted. Please confirm that the floodwater will again not need to be considered in the CIPP thickness designs, and that this section shall be modified to simply require the groundwater depth to be at the ground surface. If floodwater loading must be included as a design parameter, please provide the elevation of the floodwater level to be applied at each of the applicable manholes on the CIPP alignments.**

*Response:*

*The intent of the design was to utilize the ground surface for the groundwater depth in order to account for all anticipated future loading and will not need to consider the 100-year floodplain water surface elevation. There is one location where we have pipe crossing the floodplain, along Probandt, south of Malone Ave crossing the unnamed drainage channel. The 100-yr flood limits do not show water overtopping the road so using top of ground elevation would be sufficient.*

- 3. Are the sheets showing Phase 10 in the “Construction Sequencing” section of the plans available?**

*Response:*

*See plan sheet GEN-09, GEN-16, GEN-20, C-26, C-44 and TCP-16 for relevant information relating to the pipe rehabilitation work near S. San Marcos St.*

- 4. Will SAWS provide for the removal and reinstallation of the flow meters that conflict with construction? There are at least 2.**

*Response:*

*Please refer to plan sheet GEN-03, note 27 under General Construction Notes regarding flow meters in manholes.*

- 5. Is flow data available for the force main discharging into MH 14628?**

*Response:*

*The discharge flow through the 8" force main of LS269 Mission Reach is about 660-gpm.*

- 6. CIPP standard specification section 901.4-3.e.7 specifies that the groundwater to be used in the CIPP thickness designs shall be at the ground surface or the elevation of the 100-year floodplain, whichever is greater. On previous projects, this section has been modified so that the reference to floodwater being used as a design parameter has been deleted. Please confirm that the floodwater will again not need to be considered in the CIPP thickness designs, and that this section shall be modified to simply require the groundwater depth to be at the ground surface. If floodwater loading must be included as a design parameter, then please indicate which project locations this will apply and provide the elevation of the floodwater level to be applied.**

*Response:*

*Please see response to Question 2 in this addendum.*

- 7. Please clarify, as is customary, that a 500 psi soil modulus can be set aside and 1000 psi or other used in its place with 3rd party P.E. stamped designs for the CIPP.**

*Response:*

*Please see response to Question 1 in this addendum.*

- 8. Can bypass pipes be buried in lieu of road ramps? If no, then what if road ramps are not feasible for handling the prescribed flow volume ?**

*Response:*

*No, bypass pipes may not be buried in the roadway. It shall be up to the Contractor to determine the number of pumps, ramps and piping size required for their bypass setup.*

- 9. When and where appropriate, can flow be diverted into a parallel line with the understanding that the bypass capacity specified in the plans is set up and ready for operation?**

*Response:*

*The parallel sewer main does NOT have the capacity to handle the additional flows from the adjacent sewer main.*

- 10. If a manhole does not need to be deconstructed for the purpose of installing the CIPP, installing bypass or other construction task facilitation, then can those manholes be excluded from being reconstructed (Spec 855) and be rehabilitated only (Spec 910.1 or 910.2)? The plans seem to be calling for all manholes to be both reconstructed and rehabilitated.**

*Response:*

*If a manhole does not require the removal of the manhole cone, riser/stem etc., during CIPP, bypass pumping and/or other construction activities, it will be paid for under Bid Item "910.1 Manhole Rehabilitation" for manhole interior surface restoration and coating and Bid Item "851 Existing manhole Adjustment" for ring and cover and concrete collar and as per the scope identified in the respective specifications. These manholes will be excluded from being reconstructed and Bid item "855 Manhole Reconstruction" and the corresponding specification scope does not apply.*

## CHANGES TO SPECIFICATIONS

1. Bid Proposal (BP-1 to BP-4) – Remove in its entirety and replace with the revised version attached to this addendum. Respondents shall utilize the attached bid proposal form in their submittals. Failure to do so may result in bid being found non-responsive and rejected. The following Bid Items were updated:
  - a. Modified quantities for Bid Items 1, 2, 4, 5, 10, 32, 38, 56, 66, 70, 72, and 73
  - b. Added new Bid Items 3, 6, 7, 8, 9, 12, 29, 31, 33, 36, 55, 60, 69 and 71
2. Building Wage Decision - Remove and replace in its entirety with the revised version (rev. 02/25/2022, General Decision Number: TX20220231) attached to this addendum. This version should be utilized by the awarded contractor for the project.
3. Heavy and Highway Wage Decision - Remove and replace in its entirety with the revised version (rev. 02/25/2022, General Decision Number: TX20220007) attached to this addendum. This version should be utilized by the awarded contractor for the project.
4. Insert the following Special Provisions to Technical Specifications, Revision to Standard Specification Item 901 Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water), to the end of Section 901.4.3.e.6
  - a. **901.4 MATERIALS: ADD** the following item to the end of this section:
    - 6). A soil modulus different than 500 psi may be used if documented site-specific soil data (signed and sealed by a Professional Engineer registered in the State of Texas) is provided with liner thickness design calculations required in 901.3 Submittals, Section 4.

## CHANGES TO PLANS

1. Remove the following sheets dated 2/4/2022 and replace with the attached sheets dated 3/3/2022
  - a. Sheet GEN-02 Sheet List and Overall Quantities
  - b. Sheet C-37 Pavement Plan (Sheet 4 of 11)
2. Add the following new sheets dated 3/3/2022
  - a. Sheet 114 Supplemental General Notes
  - b. Sheet 115 Site B – Horizontal and Vertical Controls, and Details
  - c. Sheet 116 Site B – Compkey 979982 STA 1+00 to 4+00 Sanitary Sewer Rehabilitation
  - d. Sheet 117 Site B – Compkey 979982 & 971151 STA 4+00 to STA 8+00 Sanitary Sewer Rehabilitation
  - e. Sheet 118 Site B – Compkey 979982 Photos STA 1+00 to 4+00 Sanitary Sewer Rehabilitation
  - f. Sheet 119 Site B – Compkey 979982 & 971151 Photos STA 4+00 to 8+00 Sanitary Sewer Rehabilitation
  - g. Sheet 120 Site B – Compkey 979982 & 971151 Suggested Bypass Plan Sanitary Sewer Rehabilitation
  - h. Sheet 121 Site B – Compkey 979982 & 971151 Traffic Control Plan Sanitary Sewer Rehabilitation

## CLARIFICATIONS

1. The estimated construction cost has increased from \$6,656,797.86 to \$6,850,000.00 and has been noted on the SAWS website.
2. One additional project site (Site B: Compkeys 979982 & 971151) is added for CIPP with this addendum, the CCTV Videos of the corresponding sewer pipe segments are available for contractor viewing, contractor shall coordinate with SAWS Contract Administrator to access the CCTV Videos.

**END OF ADDENDUM**

This Addendum, including these four (4) pages, is thirty-one (31) pages with attachments in its entirety.

Attachments:

Bid Proposal (BP-1 to BP-5, 5 pages total)

Building Wage Decision (7 pages total)

Heavy and Highway Wage Decision (5 pages total)

Revised Plan Sheets: Plan Sheet GEN-02 & C-37 (2 pages total)

Plan Sheets 114, 115, 116, 117, 118, 119, 120 & 121 (8 pages total)



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210-308-4300 • Fax 210-308-4329

PROJECT NAME: CENTRAL SEWERSHED PACKAGE 14 - CIPP (LD)  
SOLICITATION NO: CO-00524  
JOB NO: 20-4510

BID PROPOSAL

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

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, 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 BID ITEMS.**

\_\_\_\_\_  
BIDDER'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 No(s)**. \_\_\_\_\_

**OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.**

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **300** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder 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 Bid Proposal which are included on the following pages.

**Statement on President's Executive Orders**

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes  No

**Texas Government Code Chapter 2274 Verifications**

- (1) Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes  No
- (2) Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes  No
- (3) Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes  No



**Central Sewershed Package 14 - CIPP (LD)**  
**SAWS Job No. 20-4510**  
**Bid Proposal Line Items**  
**March 2022**

ITEM	PAY ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	SUBTOTAL
1	203.1	TACK COAT (COSA SPEC)	GAL	208	\$	\$
2	205.4	HOT MIX ASPHALT CONCRETE PAVEMENT TYPE D (2" COMPACTED)(COSA SPEC)	SY	1,723	\$	\$
3	205.4	HOT MIX ASPHALT CONCRETE PAVEMENT TYPE D (3" COMPACTED)	SY	352	\$	\$
4	206.1	ASPHALT TREATED BASE (ATB) (10" COMPACTED DEPTH) (COSA SPEC)	SY	412	\$	\$
5	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (2" DEPTH) (COSA SPEC)	SY	1,338	\$	\$
6	208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (3" DEPTH) (COSA SPEC)	SY	300	\$	\$
7	299	FLOWABLE FILL (HIGH STRENGTH) (SAWS 2021 SPEC)	CY	6	\$	\$
8	300	CONCRETE (NATURAL AGGREGATE) (KARST FEATURE(S))	CY	5	\$	\$
9	410	GRAVEL SUBGRADE FILLER (KARST FEATURE(S))	CY	5	\$	\$
10	500.1	CONCRETE CURB	LF	57	\$	\$
11	502.1	CONCRETE SIDEWALK	SY	50	\$	\$
12	502.1	CONCRETE SIDEWALK (MATCH PEA GRAVEL FINISH) (+/- 2-FOOT WIDTH X 10')	SY	3	\$	\$
13	503.1	PORTLAND CEMENT CONCRETE DRIVEWAY (COSA SPEC)	SY	30	\$	\$
14	505.1	CONCRETE RIPRAP (ALL THICKNESS)	SY	53	\$	\$
15	516.1	SODDING	SY	1,137	\$	\$
16	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 1	LS	1	\$	\$
17	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 2	LS	1	\$	\$
18	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 3	LS	1	\$	\$
19	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 4	LS	1	\$	\$
20	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 5	LS	1	\$	\$
21	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 6	LS	1	\$	\$
22	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 7	LS	1	\$	\$
23	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 8	LS	1	\$	\$
24	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 9	LS	1	\$	\$
25	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 10	LS	1	\$	\$



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**March 2022**

ITEM	PAY ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	SUBTOTAL
26	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 11	LS	1	\$	\$
27	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 12	LS	1	\$	\$
28	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING - PHASE 13	LS	1	\$	\$
29	530.1	BARRICADES, SIGNS, TRAFFIC HANDLING (LINE 'B' - NEW BRAUNFELS)	LS	1	\$	\$
30	535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4-IN WIDE DOUBLE SOLID YELLOW LINE) (COSA SPEC)	LF	106	\$	\$
31	535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4-INCH WIDE YELLOW LINE) (COSA SPEC)	LF	40	\$	\$
32	535.2	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4-IN WIDE WHITE LINE) (COSA SPEC)	LF	73	\$	\$
33	535.13	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (STRAIGHT WHITE ARROW)	EA	1	\$	\$
34	537.8	PAVEMENT MARKER (TYPE II-A-A)	EA	8	\$	\$
35	540	SWPPP - ALL SITES	LS	1	\$	\$
36	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	15	\$	\$
37	845.1	REMOVE AND REPLACE FENCE	LF	100	\$	\$
38	851	EXISTING MANHOLE ADJUSTMENTS	EA	5	\$	\$
39	852.6.1	SANITARY SEWER DOGHOUSE MANHOLE (0' - 6'), 4' DIA.	EA	1	\$	\$
40	852.6.2	EXTRA DEPTH SANITARY SEWER DOGHOUSE MANHOLE (> 6'), 4' DIA.	VF	1	\$	\$
41	855	MANHOLE RECONSTRUCTION	EA	33	\$	\$
42	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE I	LS	1	\$	\$
43	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE II	LS	1	\$	\$
44	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE III	LS	1	\$	\$
45	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE IV	LS	1	\$	\$
46	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE V	LS	1	\$	\$
47	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE VI	LS	1	\$	\$
48	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE VII	LS	1	\$	\$



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**March 2022**

ITEM	PAY ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	SUBTOTAL
49	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE VIII	LS	1	\$	\$
50	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE IX	LS	1	\$	\$
51	864	LARGE DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE X	LS	1	\$	\$
52	865	SMALL DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE III	LS	1	\$	\$
53	865	SMALL DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE IV	LS	1	\$	\$
54	865	SMALL DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - PHASE X	LS	1	\$	\$
55	865	SMALL DIAMETER BYPASS PUMPING FOR SANITARY SEWERS - 10" LINE B	LS	1	\$	\$
56	866	SANITARY SEWER MAIN TELEVISION PRE INSPECTION (8" - 15") WITH CLEANING	LF	1,147	\$	\$
57	866	SANITARY SEWER MAIN TELEVISION PRE INSPECTION (18" - 24") WITH CLEANING	LF	14	\$	\$
58	866	SANITARY SEWER MAIN TELEVISION PRE INSPECTION (30" AND LARGER) WITH CLEANING	LF	8,043	\$	\$
59	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 8" DIA. PIPE	LF	447	\$	\$
60	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 10" DIA. PIPE	LF	700	\$	\$
61	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 24" DIA. PIPE	LF	14	\$	\$
62	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 33" DIA. PIPE	LF	117	\$	\$
63	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 48" DIA. PIPE	LF	3,375	\$	\$
64	902.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 54" DIA. PIPE	LF	1,816	\$	\$
65	901.1	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER), 60" DIA. PIPE	LF	2,735	\$	\$
66	910.1	MANHOLE REHABILITATION (STANDARD MANHOLES 4' DIA.)	VF	24	\$	\$
67	910.2	SEWER STRUCTURE REHABILITATION (NONCIRCULAR MANHOLES, AND MANHOLES GREATER THAN 4' DIA.)	SF	10,528	\$	\$
68	1103.1	SERVICE LATERAL POINT REPAIR - ALL SIZES - ALL DEPTHS	LF	25	\$	\$
69	1103.4	POINT REPAIRS, 10" DIA. (UP TO 9 LF)(0' TO 10' DEPTH)	EA	1	\$	\$
70	1103.5	OBSTRUCTION REMOVAL BY REMOTE CONTROL DEVICE -ALL SIZES- ALL DEPTH	EA	14	\$	\$
71	1103.6	EXTRA LENGTH POINT REPAIRS, 10" DIA. (UP TO 9 LF)(0' TO 10' DEPTH)	LF	5	\$	\$
72	1109.1	SANITARY SEWER LATERAL RECONNECTIONS - REMOTE CONTROL DEVICE	EA	63	\$	\$





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**March 2022**

ITEM	PAY ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	SUBTOTAL
73	1109.2	SANITARY SEWER LATERAL RECONNECTIONS - OPEN CUT	EA	2	\$	\$
74	100B.1	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION FOR TRENCHLESS CONSTRUCTION	EA	1	\$	\$
75	100B.2	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING EQUIPMENT RENTAL FOR TRENCHLESS CONSTRUCTION	MD	5	\$	\$
76	100B.3	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING FUEL FOR TRENCHLESS CONSTRUCTION	MD	5	\$	\$
77	100B.4	INTERMEDIATE DEMOBILIZATION BYPASS PUMPING WATCH FOR TRENCHLESS CONSTRUCTION	MD	5	\$	\$
78	3001	CPS ENERGY ALLOWANCE	ALW	1	\$ 20,000.00	\$ 20,000.00
SUBTOTAL (ITEMS 1-78)						\$
79	100	MOBILIZATION (MAX 10% OF ITEMS 1 TO 78)	LS	1	\$	\$
80	101	PREPARING RIGHT-OF-WAY (MAX 5% OF ITEMS 1 TO 78)	LS	1	\$	\$
Mobilization and Prep ROW shall be limited to the maximum percentage shown. If the percentage exceeds the allowable maximum stated for the mobilization and/or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extension of the bid items accordingly.						
<b>TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1- 80)</b>						\$

"General Decision Number: TX20220231 02/25/2022

Superseded General Decision Number: TX20210231

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: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 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 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/18/2022

ASBE0087-014 06/07/2021

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)....	\$ 25.22	10.17

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BOIL0074-003 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 29.47	24.10

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ELEC0060-003 06/01/2021

	Rates	Fringes
ELECTRICIAN (Communication Technician Only).....	\$ 30.75	18%+5.45

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ELEC0060-004 06/01/2021

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 30.75	18%+5.45

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ELEV0081-001 01/01/2022

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 44.80	36.885+a+b

## FOOTNOTES:

A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

B. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

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ENGI0450-002 04/01/2014

	Rates	Fringes
POWER EQUIPMENT OPERATOR Cranes.....	\$ 34.85	9.85

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IRON0066-013 06/01/2021

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 24.45	7.00

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IRON0084-011 06/01/2021

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 26.01	7.56

PLUM0142-009 07/01/2020

	Rates	Fringes
HVAC MECHANIC (HVAC Electrical Temperature Control Installation Only).....	\$ 30.25	13.36
HVAC MECHANIC (HVAC Unit Installation Only).....	\$ 30.25	13.36
PIPEFITTER (Including HVAC Pipe Installation).....	\$ 31.90	13.76
Including HVAC Pipe Installation		
PLUMBER (Excludes HVAC Pipe Installation).....	\$ 31.90	13.76
Excludes HVAC Pipe Installation		

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SFTX0669-002 04/01/2021

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 31.68	22.50

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SHEE0067-004 07/01/2021

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 27.58	16.00
HVAC Duct Installation Only.	\$ 27.58	16.00

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\* SUTX2014-006 07/21/2014

	Rates	Fringes
BRICKLAYER.....	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling Installation Only).....	\$ 17.83	0.00
CARPENTER (Form Work Only).....	\$ 13.63 **	0.00
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 16.86	4.17
CAULKER.....	\$ 15.00	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 22.27	5.30
DRYWALL FINISHER/TAPER.....	\$ 13.81 **	0.00
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 15.18	0.00
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 20.39	3.04
IRONWORKER, REINFORCING.....	\$ 12.27 **	0.00
LABORER: Common or General.....	\$ 10.75 **	0.00

LABORER: Mason Tender - Brick...	\$ 11.88 **	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00 **	0.00
LABORER: Pipelayer.....	\$ 11.00 **	0.00
LABORER: Roof Tearoff.....	\$ 11.28 **	0.00
LABORER: Landscape and Irrigation.....	\$ 8.00 **	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.98	0.00
OPERATOR: Bobcat/Skid Steer/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: Paver (Asphalt, Aggregate, and Concrete).....	\$ 16.03	0.00
OPERATOR: Roller.....	\$ 12.00 **	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.07 **	0.00
ROOFER.....	\$ 12.00 **	0.00
TILE FINISHER.....	\$ 11.32 **	0.00
TILE SETTER.....	\$ 14.94 **	0.00
TRUCK DRIVER: Dump Truck.....	\$ 12.39 **	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50 **	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00 **	4.11

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

=====  
 \*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

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 <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

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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.

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#### 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 National Office because National Office has 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 DECISIO"



Superseded General Decision Number: TX20210007

State: Texas

Construction Types: Heavy and Highway

Counties: Atascosa, Bandera, Bastrop, Bell, Bexar, Brazos, Burleson, Caldwell, Comal, Coryell, Guadalupe, Hays, Kendall, Lampasas, McLennan, Medina, Robertson, Travis, Williamson and Wilson Counties in Texas.

HEAVY (excluding tunnels and dams, not to be used for work on Sewage or Water Treatment Plants or Lift / Pump Stations in Bell, Coryell, McClennon and Williamson Counties) and HIGHWAY Construction Projects

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 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 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at

[https://www.dol.gov/agencies/whd/government-contracts.](https://www.dol.gov/agencies/whd/government-contracts)

Modification Number	Publication Date
0	01/07/2022
1	02/25/2022

\* SUTX2011-006 08/03/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (Paving and Structures).....	\$ 12.56	**
ELECTRICIAN.....	\$ 26.35	
FORM BUILDER/FORM SETTER Paving & Curb.....	\$ 12.94	**
Structures.....	\$ 12.87	**
LABORER Asphalt Raker.....	\$ 12.12	**
Flagger.....	\$ 9.45	**
Laborer, Common.....	\$ 10.50	**
Laborer, Utility.....	\$ 12.27	**
Pipelayer.....	\$ 12.79	**
Work Zone Barricade Servicer.....	\$ 11.85	**
PAINTER (Structures).....	\$ 18.34	
POWER EQUIPMENT OPERATOR: Agricultural Tractor.....	\$ 12.69	**
Asphalt Distributor.....	\$ 15.55	
Asphalt Paving Machine.....	\$ 14.36	**
Boom Truck.....	\$ 18.36	
Broom or Sweeper.....	\$ 11.04	**
Concrete Pavement Finishing Machine.....	\$ 15.48	
Crane, Hydraulic 80 tons or less.....	\$ 18.36	
Crane, Lattice Boom 80 tons or less.....	\$ 15.87	
Crane, Lattice Boom over 80 tons.....	\$ 19.38	
Crawler Tractor.....	\$ 15.67	
Directional Drilling Locator.....	\$ 11.67	**
Directional Drilling Operator.....	\$ 17.24	
Excavator 50,000 lbs or Less.....	\$ 12.88	**
Excavator over 50,000 lbs...\$	17.71	
Foundation Drill, Truck Mounted.....	\$ 16.93	
Front End Loader, 3 CY or Less.....	\$ 13.04	**
Front End Loader, Over 3 CY.\$	13.21	**
Loader/Backhoe.....	\$ 14.12	**
Mechanic.....	\$ 17.10	
Milling Machine.....	\$ 14.18	**
Motor Grader, Fine Grade....\$	18.51	
Motor Grader, Rough.....	\$ 14.63	**
Pavement Marking Machine....\$	19.17	

Reclaimer/Pulverizer.....\$ 12.88 \*\*  
Roller, Asphalt.....\$ 12.78 \*\*  
Roller, Other.....\$ 10.50 \*\*  
Scraper.....\$ 12.27 \*\*  
Spreader Box.....\$ 14.04 \*\*  
Trenching Machine, Heavy....\$ 18.48

Servicer.....\$ 14.51 \*\*

Steel Worker

Reinforcing.....\$ 14.00 \*\*  
Structural.....\$ 19.29

TRAFFIC SIGNALIZATION:

Traffic Signal Installation

Traffic Signal/Light Pole  
Worker.....\$ 16.00

TRUCK DRIVER

Lowboy-Float.....\$ 15.66  
Off Road Hauler.....\$ 11.88 \*\*  
Single Axle.....\$ 11.79 \*\*  
Single or Tandem Axle Dump  
Truck.....\$ 11.68 \*\*  
Tandem Axle Tractor w/Semi  
Trailer.....\$ 12.81 \*\*

WELDER.....\$ 15.97

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

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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  
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Unlisted classifications needed for work not included within  
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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:

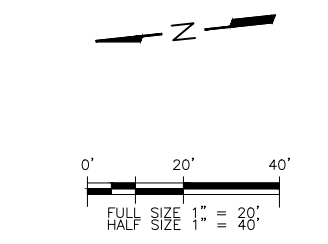
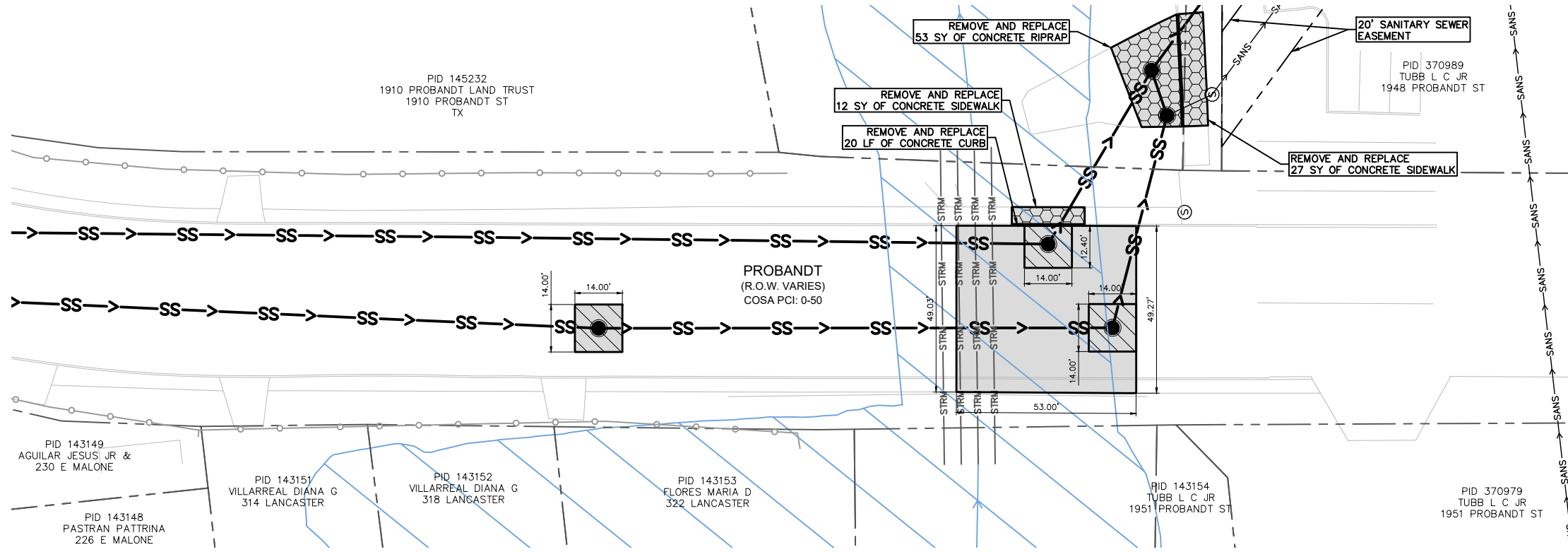
Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

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END OF GENERAL DECISIO"



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LEGEND	
	MILL/ OVERLAY
	ASPHALT PAVEMENT REPAIR
	CONCRETE PAVEMENT REPAIR

QUANTITIES TABLE			
ITEM	DESCRIPTION	UNIT	QUANTITY
203.1	TACK COAT (COSA SPEC)	GA	35
205.4	HOT MIX ASPHALT CONCRETE PAVEMENT TYPE D (3" COMPACTED) (COSA SPEC)	SY	344
206.1	ASPHALT TREATED BASE (ATB) (10" COMPACTED DEPTH) (COSA SPEC)	SY	54
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALT PAVEMENT (3" DEPTH) (COSA SPEC)	SY	300
500.1	CONCRETE CURB	LF	20
502.1	CONCRETE SIDEWALK	SY	39
505.1	CONCRETE RIPRAP	SY	53
535.1	HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS (4 INCH WIDE DOUBLE SOLID YELLOW LINE)	LF	106
535.2	4 INCH WIDE WHITE LINE	LF	53
537.8	PAVEMENT MARKER (TYPE II-A-A)	EA	8

COSA PCI: 0-50

**NOTE:**

1. 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 VERIFIED BY THE CONTRACTOR 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.
2. CONTRACTOR IS TO COORDINATE WITH THE SAWS INSPECTOR PRIOR TO REMOVING EXISTING CURB, GUTTER, RIPRAP, SIDEWALK, PAVEMENT, ETC. TO DETERMINE LIMITS OF REMOVAL REQUIRED.
3. ALL CURB, GUTTER, RIPRAP, SIDEWALK AND PAVEMENT SHALL BE REPLACED TO MATCH EXISTING CONDITIONS UNLESS STATED OTHERWISE IN THE PLANS.

NO.	BY	DATE	REVISION DESCRIPTION
1	BAL	2/29/22	ADDENDUM #1



100 NE Loop 410, Suite 1090  
 San Antonio, Texas 78216  
 TBPE #F-14629

CENTRAL SEVERSHED PACKAGE 14 - CIPP (LD)  
 PAVEMENT PLAN  
 SHEET 4 OF 11



NOTES	INITIALS	DATE
DESIGNED BY	RC	02/22
REVIEWED BY	BAL	02/22
SCALE: AS SHOWN		
SHEET NO.	C-37	
	67	OF 113



**PROJECT SPECIAL NOTES**

1. THIS PROJECT IS LOCATED IN THE CITY OF ALAMO HEIGHTS, NOT THE CITY OF SAN ANTONIO, AND AS SUCH STANDARD DETAILS AND/OR SPECIFICATIONS OF NON-SAWS CONSTRUCTION SHALL BE GOVERNED BY THOSE RESPECTIVE CITY'S SPECIFICATION AND STANDARD DETAILS AS A MINIMUM. PROSPECTIVE CONTRACTORS AND SUB-CONTRACTORS SHALL BECOME FAMILIAR WITH THE REQUIREMENTS OF THOSE CITIES PRIOR TO BIDDING. IN THE EVENT THAT WORK IS NOT GOVERNED BY THE APPLICABLE CITY, CITY OF SAN ANTONIO SPECS AND DETAILS SHALL APPLY.
2. ALL BID ITEMS ARE BASED ON CITY OF SAN ANTONIO SPECS FOR EASY OF REFERENCE, HOWEVER THE APPROPRIATE ENTITY'S SPECIFICATIONS SHALL BE APPLIED TO ALL WORK ASSOCIATED WITH THE BID ITEM.
3. THE UTILITY EASEMENT AS RECORDED IN A PLAT (DATED 1929) IN VOLUME 980, PAGES 140 AND 141A AND PROVIDES FOR FIVE (5) FEET ON EACH SIDE OF THE REAR PROPERTY LINE OF THE LOTS. UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS. ALL UTILITIES APPEAR TO BE SITUATED WITHIN THE SAME 5-FOOT SIDE OF THE REAR LOT LINE. SUPPORT OR OTHER MEASURES MAY BE NEEDED TO PROTECT OTHER EXISTING UTILITIES DURING ANY EXCAVATION. PAYMENT UNDER THE MOST APPLICABLE BID ITEM(S) PROVIDED SHALL BE FULL COMPENSATION FOR ALL MEANS AND METHODS OR MEASURES NEEDED TO COMPLETE THE WORK. NO SEPARATE PAY ITEMS.
4. TO LOCATE EXISTING UTILITIES WHICH ARE OUTSIDE OF THE PUBLIC RIGHT-OF-WAY (SPECIFICALLY THOSE WITHIN PRIVATE PROPERTY), THE CONTRACTOR SHALL SECURE THE SERVICES OF A RECOGNIZED THIRD-PARTY ENTITY THAT SPECIALIZES IN LOCATION OF EXISTING UTILITIES PRIOR TO INITIATION OF ANY EXCAVATION RELATED CONSTRUCTION ACTIVITIES. NO SEPARATE PAY ITEM.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE RESTORATION OF ALL PRIVATE PROPERTY DISTURBED OR DAMAGED DURING CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK TO COMPLETE BY PROJECT. RESTORATION SHALL BE TO A LIKE OR BETTER CONDITION, AS MAY BE DETERMINED BY SAWS, ON A CASE-BY-CASE BASIS. PRIVATE PROPERTY SHALL BE UNDERSTOOD TO INCLUDE, BUT NOT BE LIMITED TO, DRIVEWAYS, SIDEWALKS OR PATHS, PATIOS OR OTHER STONE OR CONCRETE FLATWORK, YARDS AND LAWNS, LANDSCAPING MATERIALS AND VEGETATION, HOUSES, SHEDS, OR OTHER BUILDINGS/STRUCTURES, ETC. ALL SUCH RESTORATION WORK AND MATERIALS SHALL BE CONSIDERED AS INCIDENTAL TO THE APPLICABLE BID ITEM(S) UNLESS OTHERWISE SPECIFICALLY NOTED WITHIN THE PLAN OR AS PROVIDED FOR WITH A SPECIFIC BID ITEM OR SPECIAL SPECIFICATION. NO SEPARATE PAY ITEM.
6. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CITY OF ALAMO HEIGHTS ORDINANCES OR REGULATIONS AND SHALL BE FULLY RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS. NO SEPARATE PAY ITEM.
7. ALL WORK IN CITY OF ALAMO HEIGHTS RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT(S).
8. ANY SPILL OVERFLOW OR DISCHARGE OF RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS SHALL BE IMMEDIATELY REPORTED TO THE SAWS INSPECTOR. ATTENUATION EFFORTS AND CLEANUP SHALL BE AS DIRECTED BY SAWS AND ANY GOVERNING REGULATIONS AT NO COST TO SAWS.
9. SEWER PIPE WHERE A WATER MAIN IS PARALLEL WITHIN 9-FOOT OR CROSSES THE SEWER PIPE SHALL BE 160 PSI (ASTM D2241) PVC AND MEET ALL APPLICABLE TCEQ REQUIREMENTS OR SAWS VARIANCE(S). WHEN CROSSING, A FULL SECTION OF SEWER PIPE SHALL BE CENTERED ABOUT THE WATER MAIN.
10. ALL PVC SEWER PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.
11. CONTRACTOR SHALL REMOVE ANY STEPS IDENTIFIED IN THE MANHOLES PRIOR TO THE MANHOLE BEING REHABILITATED. (N.S.P.I.).
12. AS PER THE SAWS SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION ALL MANHOLE AND PIPE TESTING (INCLUDING THE CCTV INSPECTION) MUST BE PERFORMED AND PASS PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION.

**CPS NOTE**

1. CONTRACTOR SHALL MAINTAIN ADEQUATE WORKING CLEARANCE FROM OVERHEAD UTILITIES IN COMPLIANCE WITH C.P.S. REQUIREMENTS.
2. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.P.S. ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE WITHIN THE LIMITS OF THE PROJECT.
3. EXCAVATION WITHIN 5 (FIVE) FEET CLEAR OF A 12" OR LARGER GAS MAIN SHALL BE BY MEANS OTHER THAN WITH MECHANICAL EQUIPMENT.

**DRY UTILITY MANHOLE(S) NOTE**

1. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MANHOLES AT ALL TIMES.

**MATERIALS TESTING**

1. MATERIALS TESTING FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR TESTING WILL NOT BE PAID SEPARATELY BUT SHALL BE INCORPORATED INTO THE ITEMS TO WHICH IT PERTAINS.
2. MATERIALS TESTING SHALL COMPLY WITH APPLICABLE REQUIREMENTS PER SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION, CITY OF TERRELL HILLS OR ALAMO HEIGHTS (AS APPLICABLE) OR THE CITY SAN ANTONIO STANDARD SPECIFICATIONS (IF NOT COVERED BY TERRELL HILLS OR ALAMO HEIGHTS) FOR PUBLIC WORKS CONSTRUCTION, OR TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. FULL PAYMENT WILL NOT BE MADE UNTIL ALL TESTING IS COMPLETE, PASSES, AND IS APPROVED BY THE GOVERNING JURISDICTION.

**EXISTING UTILITY PROTECTION NOTE**

1. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS WAS OBTAINED FROM AVAILABLE RECORDS, AND TO THE BEST OF THE ENGINEER OF RECORD'S KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN OR NOTED ON THESE PLANS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITIES OR STRUCTURES NOT SHOWN OR NOTED, OR IN A DIFFERENT LOCATION FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL EXISTING UTILITIES SHOWN ON THE PLANS AND OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN, AND MAINTAIN THE RESPECTIVE UTILITY TRENCH INTEGRITY DURING SANITARY SEWER OR WATER MAIN CONSTRUCTION.

**PROJECT SPECIAL NOTES--KARST FEATURES**

THIS THE CENTRAL SEWERSHED PACKAGE 10 - TERRELL HILLS (SITE) IS A SERIES OF SEVEN SANITARY SEWER LINE REPAIRS AND/OR REPLACEMENTS. ACCORDING TO THE UNITED STATES FISH AND WILDLIFE SERVICES (USFWS)\*, THESE SANITARY SEWER LINES, DENOTED AS LINE A THROUGH LINE G, ARE LOCATED IN THE DESIGNATED KARST ZONES 2 AND 3. THE MAJORITY OF THE SANITARY SEWER LINES AT THE SITE ARE LOCATED IN KARST ZONE 2, WHICH IS DEFINED AS "AREAS HAVING A HIGH PROBABILITY OF CONTAINING SUITABLE HABITAT FOR LISTED INVERTEBRATE KARST SPECIES." HOWEVER, LINE E AND THE EASTERN PORTION OF LINE D ARE LOCATED IN KARST ZONE 3, WHICH IS DEFINED AS "AREAS THAT PROBABLY DO NOT CONTAIN LISTED INVERTEBRATE KARST SPECIES."

THE CONTRACTOR SHOULD RETAIN A KARST BIOLOGIST/GEOLOGIST WITH A USFWS SECTION 10(A)(1)(A) SCIENTIFIC PERMIT FOR KARST SURVEYS OF POTENTIAL HABITAT OF RARE, THREATENED, AND ENDANGERED SPECIES (HEREAFTER REFERRED TO AS "THE PERMITTEE") FOR THE PROJECT. KARST FEATURES SUCH AS CAVES, CAVITIES, CONDUITS, AND SOLUTION-ENLARGED FRACTURES MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. THEREFORE, THE PERMITTEE SHOULD BE PRESENT DURING CONSTRUCTION ACTIVITIES INVOLVING EXCAVATION DURING THE PROJECT TO IDENTIFY KARST FEATURES AS THEY ARE ENCOUNTERED. IF A KARST FEATURE IS ENCOUNTERED DURING CONSTRUCTION AND THE KARST FEATURE IS GREATER THAN 6 INCHES IN ANY ONE DIRECTION, THE CONTRACTOR SHOULD HALT WORK IN THE AREA IMMEDIATELY. THE PERMITTEE WILL BE RESPONSIBLE FOR:

- INSPECTING THE KARST FEATURE TO DETERMINE IF THE FEATURE MAY BE POTENTIAL HABITAT OF LISTED ENDANGERED KARST INVERTEBRATE SPECIES;
- DETERMINING IF LISTED ENDANGERED KARST INVERTEBRATE SPECIES ARE PRESENT OR ARE LIKELY PRESENT;
- PRESCRIBING PROTECTION MEASURES TO SAFEGUARD POTENTIAL HABITAT BY PROTECTING THE KARST FEATURE;
- REPORTING FINDINGS, IF REQUIRED, TO THE USFWS;
- WORKING WITH THE DESIGN TEAM TO DEVELOP A MANAGEMENT PLAN FOR THE KARST FEATURE RELATIVE TO THE GOALS OF THE CONSTRUCTION PROJECT; AND
- DETERMINING WHEN CONSTRUCTION ACTIVITIES CAN RESUME.

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROTECTION MEASURES PRESCRIBED BY THE PERMITTEE.

\*USFWS WEBSITE  
 (HTTPS://WWW.FWS.GOV/SOUTHWEST/ES/AUSTINTEXAS/MAPS\_DATA.HTML) AND  
 (HTTPS://WWW.ARCGIS.COM)

**UNDERGROUND TELEPHONE/COMMUNICATION LINES NOTE**

1. THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE AS SHOWN ON THESE PLANS HAS BEEN TAKEN FROM THE AVAILABLE INFORMATION AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR SHALL CONTACT THE TELEPHONE/COMMUNICATION COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-545-6505. CONTRACTOR SHALL PROTECT AND (AS NECESSARY) INSTALL SHORING/SUPPORTS FOR ANY FACILITIES DURING CONSTRUCTION. (N.S.P.I.)

**TRAFFIC CONTROL NOTE**

1. NECESSARY TRAFFIC CONTROL, FLAGMEN, DETOUR ROUTING AROUND WORK ACTIVITIES AND MAINTENANCE OF DETOUR SIGNS ARE THE CONTRACTOR'S RESPONSIBILITY. ALL SUCH TRAFFIC CONTROL SHALL BE COORDINATED (AND PERMITTED AS MAY BE REQUIRED) WITH THE CITY OF TERRELL HILLS OR ALAMO HEIGHTS (AS APPLICABLE). UNLESS DIRECTED OTHERWISE BY THE PLANS, DURING WORKING HOURS, IN ALL AREAS WHERE WORK IS ADJACENT TO OR CROSSING ROADWAYS, THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE OPEN TRAFFIC LANE (12 FT.) CONTROLLED WITH FLAGMEN; DURING ALL NON-WORKING HOURS A MINIMUM OF TWO TRAFFIC LANES (24 FT.) SHALL BE OPEN TO TRAFFIC. CONTRACTOR WILL FURNISH AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) TO PROPERLY WARN, GUIDE, AND CONTROL TRAFFIC AT ALL TIMES DURING CONSTRUCTION. (FULL COMPENSATION SHALL BE UNDER SPEC 530).

**HAULING AND STORAGE**

1. HAULING AND/OR TEMPORARY STORAGE OF EQUIPMENT AND MATERIALS MAY BE NECESSARY, INCLUDING EXCAVATED MATERIAL AND SPOILS. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL COSTS ASSOCIATED WITH HAULING AND OFF-SITE STORAGE OF ALL MATERIALS AND/OR EQUIPMENT AS PART OF THE APPLICABLE BID ITEM(S). ALSO REFER TO THE PROJECT SPECIFICATIONS.

**CONTRACTOR NOTE**

1. ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

**VIA BUS NOTE**

1. EXISTING VIA BUS STOPS ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL NOT BE DISTURBED AS PART OF THE SEWER MAIN CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL NOTIFY VIA AT LEAST TWO (2) WEEKS PRIOR TO INITIATION OF CONSTRUCTION. CONTACT MARK SPAULDING AT (210) 414 - 9078 TO COORDINATE.
3. ACCESS TO BUS STOPS MUST BE MAINTAINED DURING CONSTRUCTION UNLESS PRIOR WRITTEN APPROVAL HAS BEEN RECEIVED FROM VIA.

**CITY OF ALAMO HEIGHTS FLATWORK NOTE**

1. ALL LIMITS FOR CURB, SIDEWALK, AND TREE PREP BEYOND WHAT IS CONSIDERED INCIDENTAL TO NORMAL UTILITY CONSTRUCTION WILL BE ADDRESSED BY THE SAWS INSPECTOR. ALL COMMUNICATION BETWEEN THE CONTRACTOR AND THE CITY OF ALAMO HEIGHTS WILL BE COORDINATED THROUGH THE SAWS INSPECTOR. SAWS INSPECTOR WILL ALSO DETERMINE IF ADDITIONAL COMPENSATION IS WARRANTED IF LIMITS EXCEED INCIDENTALS.

**LOCATOR NOTE**

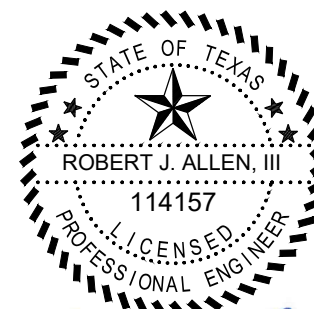
1. CALL THE STATE WIDE "ONE CALL LOCATOR" AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

**CABLE T.V. NOTE**

1. CONTRACTOR TO CONTACT SPECTRUM (FORMERLY TIME WARNER) (210-352-4672) AND ANY OTHER APPLICABLE CABLE T.V. PURVEYOR'S LOCATOR 48 HOURS PRIOR TO EXCAVATION. CONTRACTOR HAS RESPONSIBILITY TO PROTECT AND SUPPORT (N.S.P.I.) CABLE T.V. FACILITIES DURING CONSTRUCTION.

**TELEPHONE NOTE**

1. THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE(S)/DUCT(S) INDICATED ON THE PLANS ARE TAKEN FROM THE AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT (N.S.P.I.) TELEPHONE COMPANY FACILITIES DURING CONSTRUCTION.



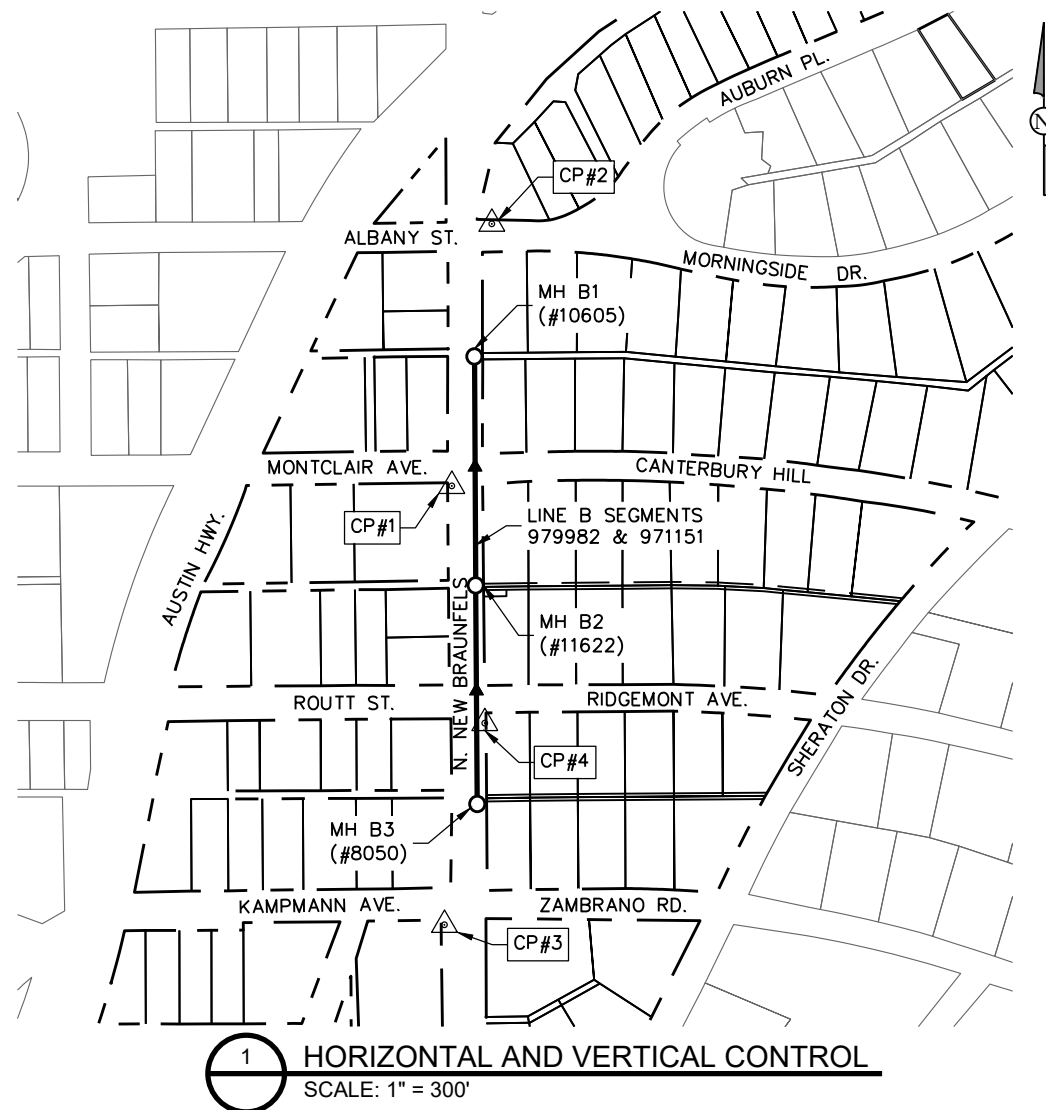
*Robert J. Allen, III*  
 3/3/22

**Garcia Infrastructure Consultants, LLC**  
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 San Antonio, Texas 78216  
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1	ADDENDUM NO. 1	GIC	RA	3/3/22
No.	Revision	Drawn	Approved	Date
REVISIONS				
		CENTRAL SEWERSHED PACKAGE 14 - CIPP (LD) SUPPLEMENTAL GENERAL NOTES		
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM		CONT. BUDGET PROJ.		
SUBMITTED _____		APPROVED _____		
MAP No. 000-000		SECT. No.		114
DR. JFM	CK. JGM	JOB No. 20-4510		OF 121



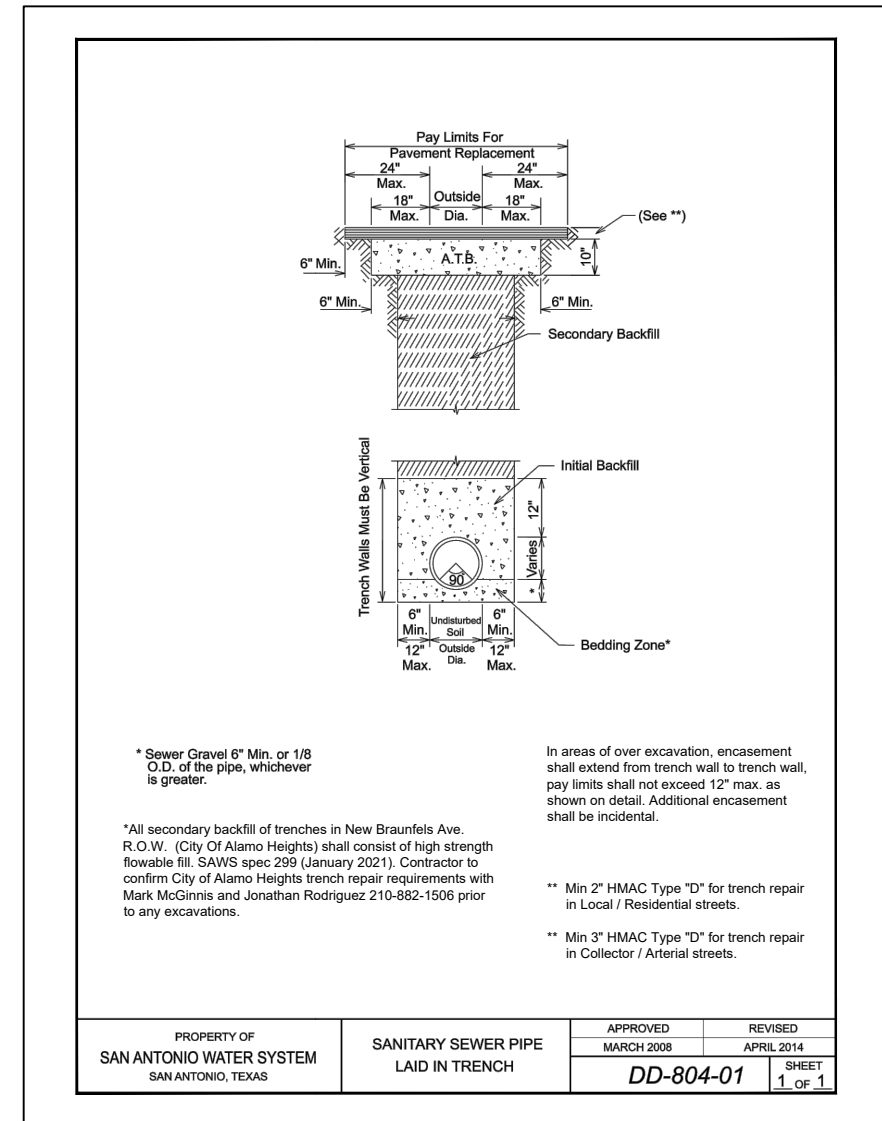
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Last plotted by: Walter Flores Plot Style: GIC-BW.ctb Plot Scale: 1:1 Plot Date: 3/2/2022 10:09 AM Plotter Used: AutoCAD PDF (General Documentation).pc3



**1 HORIZONTAL AND VERTICAL CONTROL**  
SCALE: 1" = 300'

HORIZONTAL AND VERTICAL CONTROL				
ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP#1	13,725,498.03	2,140,866.35	737.083'	*1
CP#2	13,725,907.67	2,140,929.02	737.823'	*1
CP#3	13,724,812.20	2,140,855.03	746.241'	*1
CP#4	13,725,127.42	2,140,918.00	740.587'	*1
MH B1	13,725,667.80	2,157,795.64	*2	PROP. M.H.
MH B2	13,725,342.61	2,140,903.73	*2	PROP. M.H.
MH B3	13,725,001.11	2,140,906.12	*2	PROP. M.H.

NOTE:  
\*1 IRON ROD W/ORANGE CAP TAMPED VICKREY CONTROL  
\*2 REFER TO PLAN & PROFILE SHEETS FOR ELEVATIONS\*

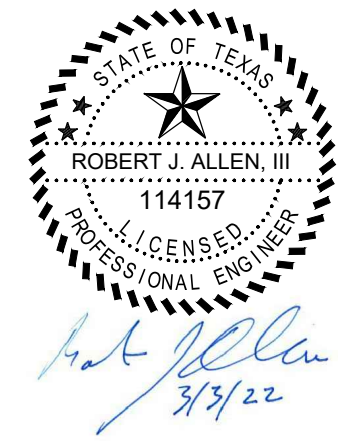


\* Sewer Gravel 6" Min. or 1/8 O.D. of the pipe, whichever is greater.

In areas of over excavation, encasement shall extend from trench wall to trench wall, pay limits shall not exceed 12" max. as shown on detail. Additional encasement shall be incidental.

\*\* Min 2" HMAC Type "D" for trench repair in Local / Residential streets.

\*\* Min 3" HMAC Type "D" for trench repair in Collector / Arterial streets.

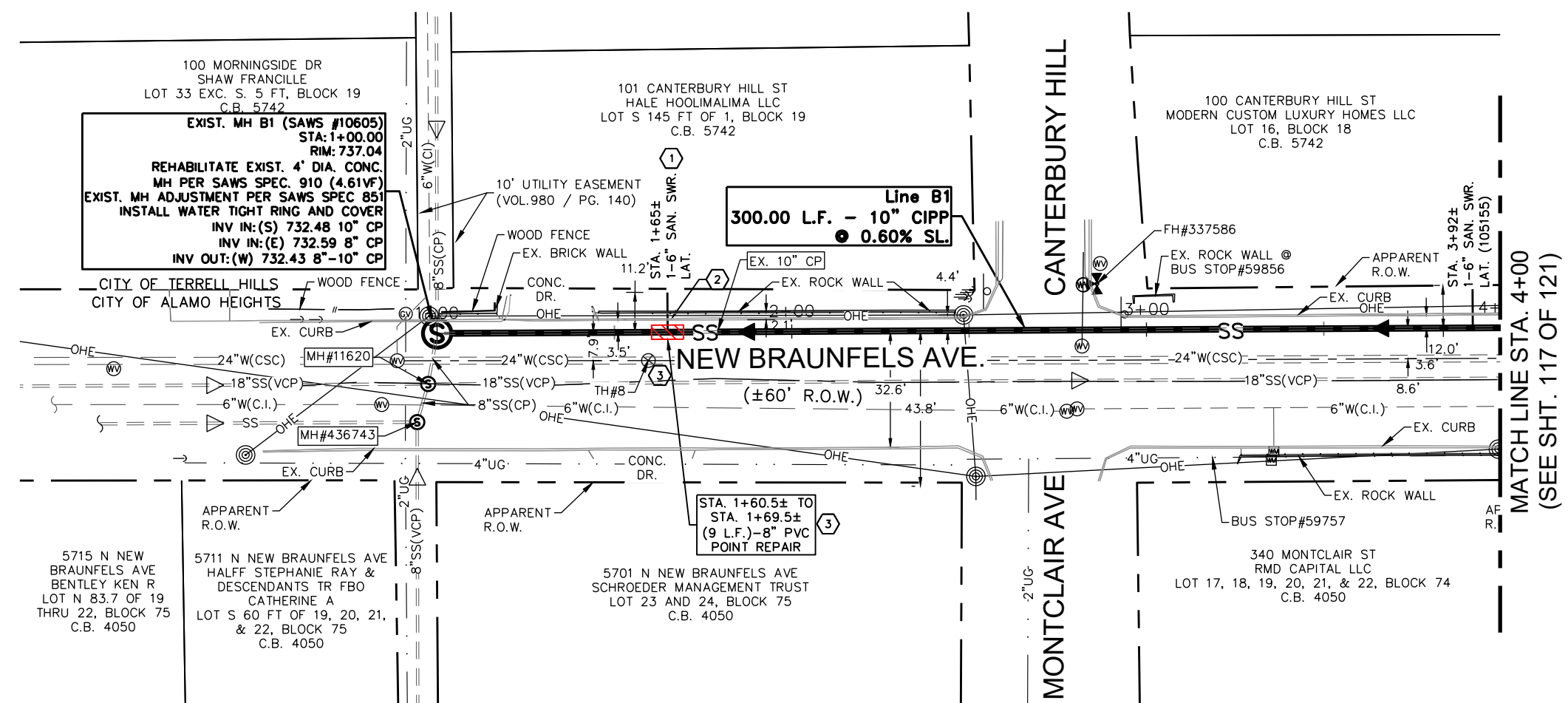
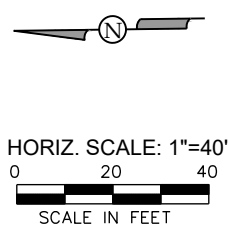


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1	ADDENDUM NO. 1	GIC	RA	3/3/22	
No.	Revision	Drawn	Approved	Date	
REVISIONS					
CENTRAL SEWERSHED PACKAGE 14 - CIPP (LD) HORIZONTAL AND VERTICAL CONTROL, AND DETAILS					
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM CONT. BUDGET PROJ.					
SUBMITTED _____					
APPROVED _____					
MAP No. 000-000					SHEET
SECT. No.					<b>115</b>
DR. JFM	CK. JGM	JOB No. 20-4510		OF 121	

**SHEET NOTES**

- EASEMENTS FOR PUBLIC UTILITIES OUTLINED IN THE TERRELL HILLS SUBDIVISION PLAT RECORDED IN VOLUME 980, PAGE 140 & 141A, O.P.R.R.P.B.C.T.



**KEY NOTES**

- HEAVY DEPOSITS OF SOIL AND LARGE GRAVEL IN 6" LAT TO BE REMOVED BY OPEN CUT REPLACEMENT OF SECTION OF LATERAL.
- EXISTING CONCRETE CURB SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF ALAMO HEIGHTS PUBLIC WORKS REGULATIONS.
- PER AS-BUILT 6004, 24" CSC HAS APPROXIMATELY ±5' OF COVER. CONTRACTOR TO USE CAUTION. PER TH#8 DATA DEPTH OF COVER AT TEST HOLE WAS 5.83 FEET.

**LEGEND**

ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—○—○—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▷
FLOW ARROW (PR.)	▶
GAS MAIN (BURIED)	—UG—
GAS VALVE	⊙
PARCEL LOT LINE	---
PARCEL R.O.W. LINE	---
POINT REPAIR	⊠
PAVEMENT REPLACEMENT	▨
POWER POLE	⊙
POWER POLE GUY WIRE	└
SANITARY SEWER MAIN (EX)	—SS—
EX. SANITARY SEWER MANHOLE	⊙
PR. SANITARY SEWER MANHOLE	⊙
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	⊙
TELEPHONE PEDESTAL/BOX	⊙
WATER MAIN	—WL—
WATER METER	⊙
WATER VALVE/COVER	⊙

**LINE B - PROP. 10" Ø SANITARY SEWER  
POINT REPAIR AND CIPP REHABILITATION SEGMENT (979982)**

SCALE: 1" = 40' (H)

**TEST HOLE TABLE**

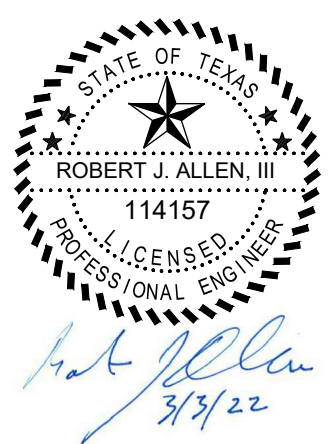
NUMBER	DESCRIPTION	COVER	ELEVATION
TH-8	24" GREY CSC WATER LINE	5.83'	731.42±

Item #	Description	Units	Est. Qty.
203.1	Tack Coat	GAL	0.7
205.4	Hot Mix Asphalt Concrete Pavement Type D (3" Compacted)	SY	7.4
206.1	Asphalt Treated Base (ATB) (10" Compacted Depth)	SY	4.8
299	Flowable Fill (High Strength) (SAWS 2021 Spec)	CY	5.8
300	Concrete (Natural Aggregate) (Karst Feature(s))	CY	5.0
410	Gravel Subgrade Filler (Karst Feature(s))	CY	5.0
500.1	Concrete Curb	LF	10
502.1	Concrete Sidewalk (Match Pea Gravel Finish) (+/- 2-foot Width x 10')	SY	2.2
530.1	Barricades, Signs, and Traffic Handling (Line 'B' - New Braunfels)	LS	1
535.1	Hot Applied Thermoplastic Pavement Markings (4-inch Wide Yellow Line)	LF	40
535.2	Hot Applied Thermoplastic Pavement Markings (4-inch Wide White Line)	LF	20
535.13	Hot Applied Thermoplastic Pavement Markings (Straight White Arrow)	EA	1
550	Trench Excavation Safety Protection	LF	15
851	Existing Manholes Adjustments	EA	1
865	Small Diameter Bypass Pumping for Sanitary Sewers - 10" Line B	LS	1
866	Sanitary Sewer Main Television Pre Inspection (8"-15") with Cleaning	LF	300.00
901.1	Rehabilitation of Sanitary Sewer by Cured-in-Place Pipe (Hot Water), 10" Dia. Pipe	LF	300.00
910.1	Manhole Rehabilitation (Standard 4' Dia.)	VF	4.61
1103.4	Point Repairs, 10" Dia. (up to 9 LF) (0' to 10' Depth)	EA	1
1103.6	Extra Length Point Repair, 10" Dia. (0'-10' Depth)	LF	5
1109.2	Service Reconnection (All Depths) (by Open Cut Excavation)	EA	1
1109.1	Sanitary Sewer Lateral Reconnections - Remote Control Device	EA	2

**LINE B - LATERAL TAPS  
COMPKEY (979982)**

NO.	STA. (+/-)	DIRECTION	DESCRIPTION
1	1+65	LT	REMOTE CUTTING TAP
2	3+92	LT	REMOTE CUTTING TAP

**TRENCH EXCAVATION SAFETY PROTECTION:**  
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



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No.	Revision	Drawn	Approved	Date
1	ADDENDUM NO. 1	GIC	RA	3/3/22

**REVISIONS**

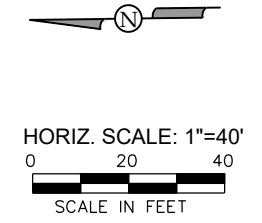
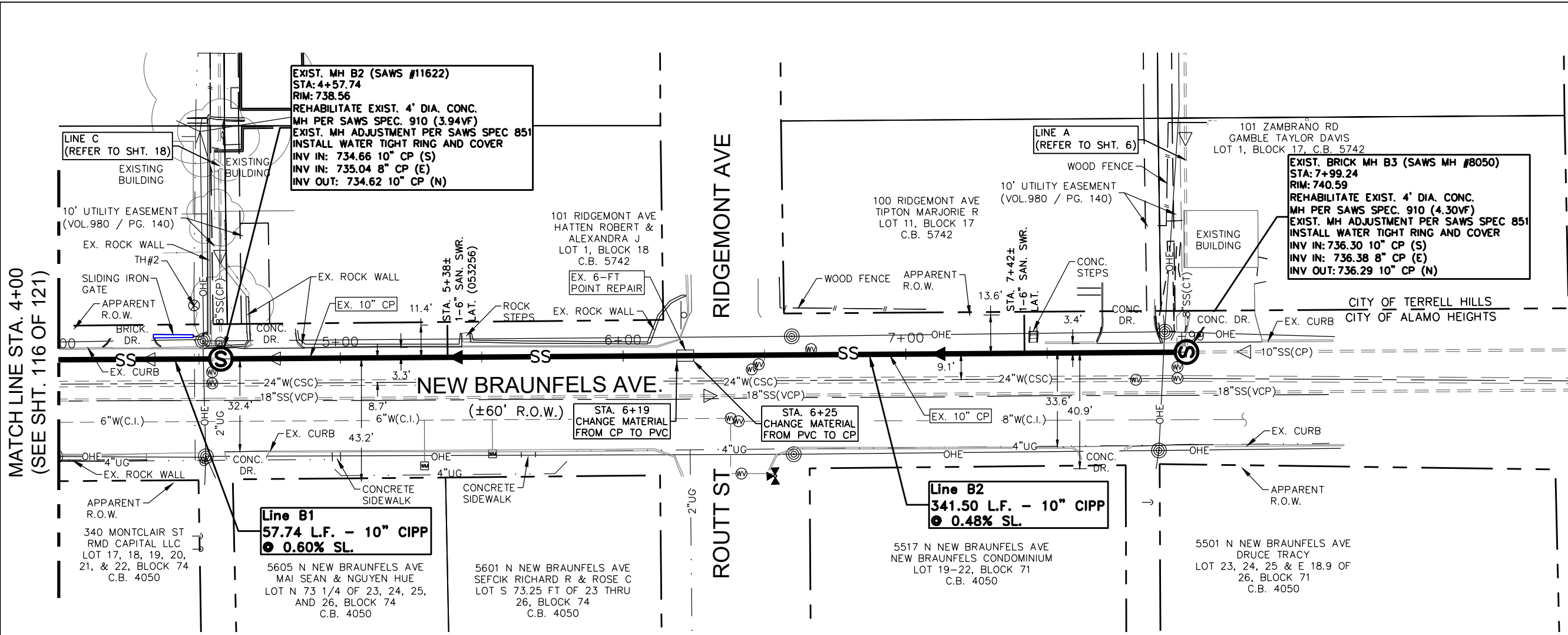
1 ADDENDUM NO. 1 GIC RA 3/3/22

**DEVELOPER: SAN-ANTONIO-WATER-SYSTEM  
CONT. BUDGET PROJ.**

SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

MAP No. 000-000 SHEET 116  
 SECT. No. \_\_\_\_\_  
 DR. JFM CK. JGM JOB No. 20-4510 OF 121

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LEGEND	
ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—O—O—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▷
FLOW ARROW (PR.)	◀
GAS MAIN (BURIED)	—UG—
GAS VALVE	⊙
PARCEL LOT LINE	— — — —
PARCEL R.O.W. LINE	— — — —
POINT REPAIR	▭
PAVEMENT REPLACEMENT	▨
POWER POLE	⊙
POWER POLE GUY WIRE	—
SANITARY SEWER MAIN (EX)	—SS—
EX. SANITARY SEWER MANHOLE	⊙
PR. SANITARY SEWER MANHOLE	⊙
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	⊙
TELEPHONE PEDESTAL/BOX	⊙
WATER MAIN	—WL—
WATER METER	⊙
WATER VALVE/COVER	⊙

**LINE B - PROP. 10" Ø SANITARY SEWER  
POINT REPAIR AND CIPP REHABILITATION SEGMENT (979982 & 971151)**

SCALE: 1" = 40" (H)

**SHEET NOTES**

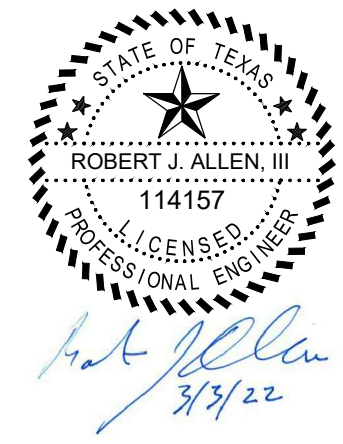
1. EASEMENTS FOR PUBLIC UTILITIES OUTLINED IN THE TERRELL HILLS SUBDIVISION PLAT RECORDED IN VOLUME 980, PAGE 140 & 141A, O.P.R.R.P.B.C.T.

TEST HOLE TABLE		
NUMBER	DESCRIPTION	ELEVATION
TH-2	2" BLACK METAL GAS PIPE	738.10

Item #	Description	Units	Est. Qty.
851	Existing Manhole Adjustments	EA	2
866	Sanitary Sewer Main Television Pre Inspection (8"-15") with Cleaning	LF	399.24
901.1	Rehabilitation of Sanitary Sewer by Cured-in-Place Pipe (Hot Water), 10" Dia. Pipe	LF	399.24
910.1	Manhole Rehabilitation (Standard 4' Dia.)	VF	8.24
1103.5	Obstruction Removal by Remote Control Device - All Sizes - All Depths	EA	1
1109.1	Sanitary Sewer Lateral Reconnections - Remote Control Device	EA	2

LINE B - LATERAL TAPS COMPKEYS (979982 & 971151)			
NO.	STA. (+/-)	DIRECTION	DESCRIPTION
1	5+40	LT	REMOTE CUTTING TAP
2	7+72	LT	REMOTE CUTTING (TRIM PROTRUDING TAP)

**TRENCH EXCAVATION SAFETY PROTECTION:**  
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



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No.	Revision	Drawn	Approved	Date
1	ADDENDUM NO. 1	GIC	RA	3/3/22

**REVISIONS**

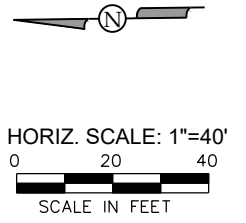
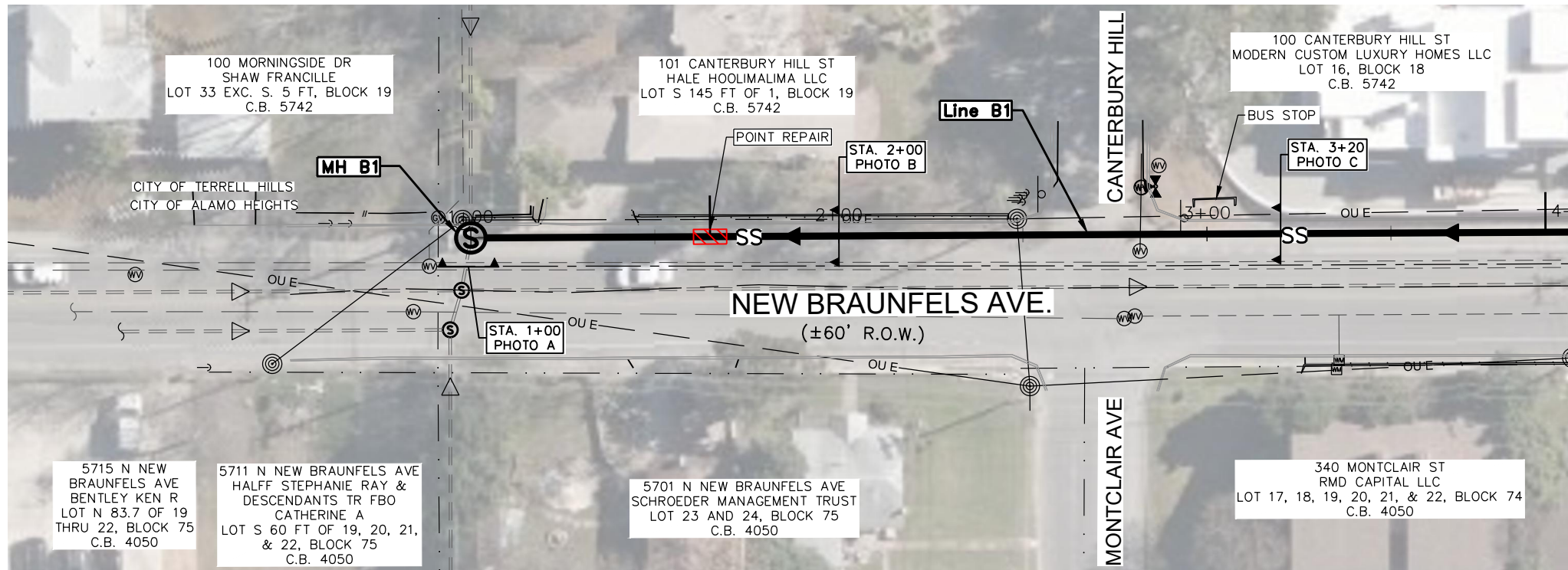
**DEVELOPER: SAN-ANTONIO-WATER-SYSTEM**  
**CONT. BUDGET PROJ.**

SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

MAP No. 000-000 SHEET  
 SECT. No. 117  
 DR. JFM CK. JGM JOB No. 20-4510 OF 121

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MATCH LINE STA. 4+00  
(SEE SHT. 119 OF 121)

**1** LINE B - PROP. 10" Ø SANITARY SEWER PHOTOS (979982)  
SCALE: 1" = 40' (H)

LEGEND	
ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—○—○—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▷
FLOW ARROW (PR.)	▶
GAS MAIN (BURIED)	—UG—
GAS VALVE	⊙
PARCEL LOT LINE	— — — —
PARCEL R.O.W. LINE	— · · · · —
POINT REPAIR	▨
PAVEMENT REPLACEMENT	▨▨▨▨
POWER POLE	⊙
POWER POLE GUY WIRE	↖
SANITARY SEWER MAIN (EX)	—SS—
EX. SANITARY SEWER MANHOLE	⊙
PR. SANITARY SEWER MANHOLE	⊙
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	⊙
TELEPHONE PEDESTAL/BOX	⊙
WATER MAIN	—WL—
WATER METER	⊙
WATER VALVE/COVER	⊙



**A** STA. 1+00 M.H. B1 (#10605)  
(VIEWING EAST)

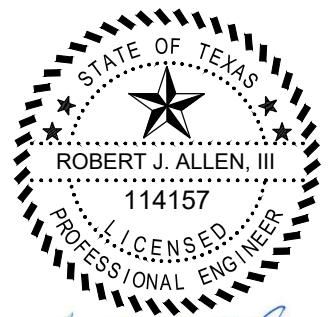


**B** STA. 2+00±  
POINT REPAIR AREA  
(D.S. VIEW)



**C** STA. 3+20 M.H. BUS STOP  
(D.S. VIEW)

TRENCH EXCAVATION SAFETY PROTECTION:  
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



*Robert J. Allen*  
3/3/22

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No.	Revision	Drawn	Approved	Date
1	ADDENDUM NO. 1	GIC	RA	3/3/22

**REVISIONS**

**CSA** CENTRAL SEWERSHED PACKAGE 14 - CIPP (LD)  
SITE B - COMPKEY 979982  
PHOTOS - STA. 1+00 TO STA. 4+00  
SANITARY SEWER REHABILITATION

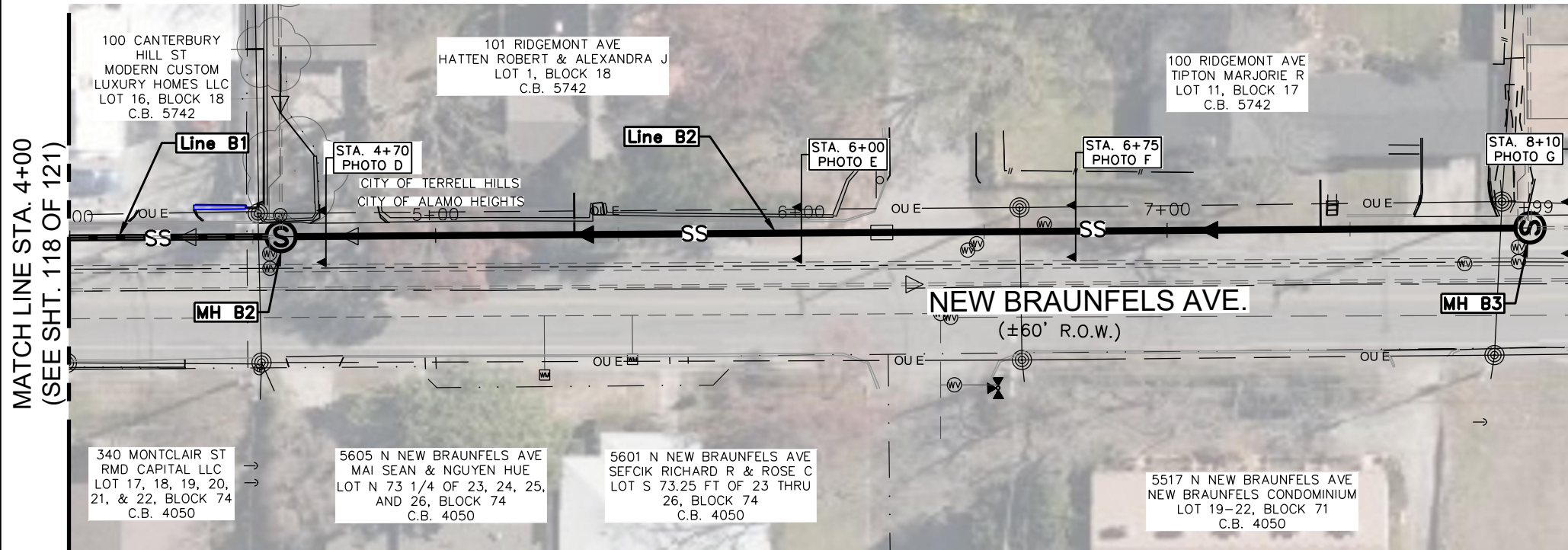
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM  
CONT. BUDGET PROJ.

SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_

MAP No. 000-000 SHEET  
SECT. No. 118  
DR. JFM CK. JGM JOB No. 20-4510 OF 121

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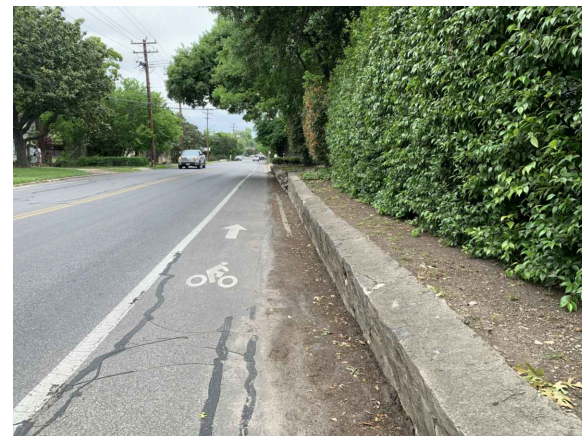




**D** STA. 4+70 M.H. C1 (#11622)  
(D.S. VIEW)

**1** LINE B - PROP. 10" Ø SANITARY SEWER PHOTOS (979982 & 971151)  
SCALE: 1" = 40' (H)

LEGEND	
ELECTRIC (OVERHEAD)	—OHE—
FENCE (CHAINLINK)	—○—○—
FENCE (WOOD)	—//—//—
FIBER OPTIC	—FO—
FLOW ARROW (EX.)	▷
FLOW ARROW (PR.)	◀
GAS MAIN (BURIED)	—UG—
GAS VALVE	⊙
PARCEL LOT LINE	— — — —
PARCEL R.O.W. LINE	— — — —
POINT REPAIR	▨
PAVEMENT REPLACEMENT	▨▨▨▨
POWER POLE	⊙
POWER POLE GUY WIRE	↖
SANITARY SEWER MAIN (EX)	—SS—
EX. SANITARY SEWER MANHOLE	⊙
PR. SANITARY SEWER MANHOLE	⊙
STREET SIGN	⊙
TELEPHONE (BURIED)	—UGT—
TELEPHONE (OVERHEAD)	—OHT—
TELEPHONE MANHOLE	⊙
TELEPHONE PEDESTAL/BOX	⊙
WATER MAIN	—WL—
WATER METER	⊙
WATER VALVE/COVER	⊙



**E** STA. 6+00 RET. WALL  
(D.S. VIEW)

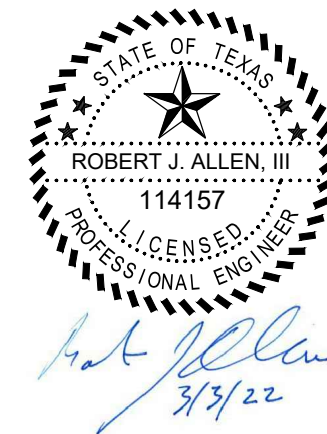


**F** STA. 6+70 WTR. VALVE  
(D.S. VIEW)



**G** STA. 8+10 M.H. A1 (#8050)  
(D.S. VIEW)

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No.	Revision	Drawn	Approved	Date
1	ADDENDUM NO. 1	GIC	RA	3/3/22

REVISIONS

**CSA** CENTRAL SEWERSHED  
PACKAGE 14 - CIPP (LD)  
SITE B - COMPKEY 979982 & 971151  
PHOTOS - STA. 4+00 TO STA. 7+99  
SANITARY SEWER REHABILITATION

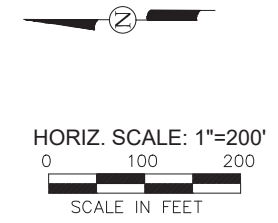
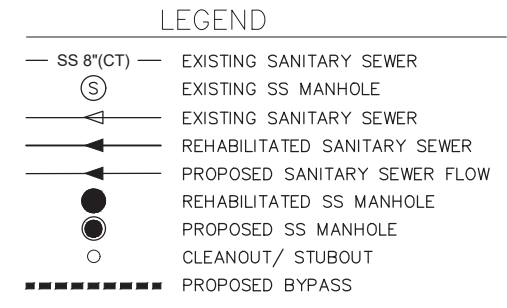
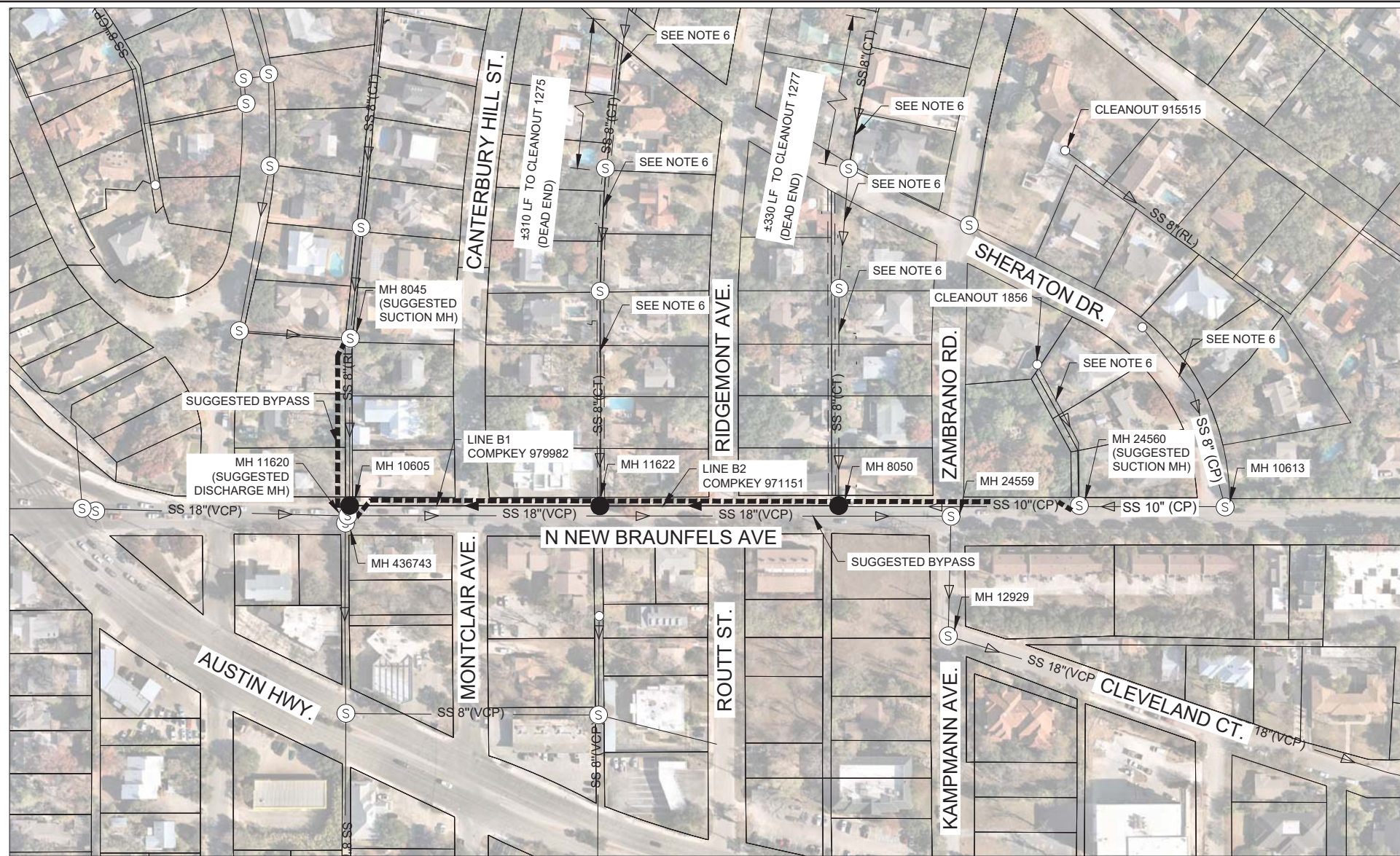
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM  
CONT. BUDGET PROJ.

SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_

MAP No. 000-000 SHEET  
SECT. No. 119  
DR. JFM CK. JGM JOB No. 20-4510 OF 121

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**BYPASS PUMPING GENERAL NOTES**


1. ALL BYPASS PUMPING ACTIVITIES SHALL CONFORM TO SAWS SPECIFICATION 865.
2. CONTRACTOR SHALL PREPARE AND SUBMIT BYPASS PUMPING PLANS TO SAWS AND ENGINEER FOR REVIEW. BYPASS PUMPING PLANS SHALL BE SUBMITTED A MINIMUM OF TWO WEEKS PRIOR TO COMMENCING ANY PORTION OF THE PROPOSED SCOPE OF WORK AND THE CONTRACTOR SHALL HAVE A WRITTEN APPROVAL PRIOR TO COMMENCING WORK.
3. 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 BYPASS OPERATIONS (N.S.P.I.).
4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEWER SERVICE TO EXISTING SEWER MAINS AND SERVICES AT ALL TIMES.
5. STAGING IS SUGGESTED AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE APPROPRIATE LOCATION. STAGING AREAS SHALL BE LOCATED IN AREAS THAT DO NOT ELIMINATE DRIVEWAY ACCESS FOR RESIDENTIAL OR COMMERCIAL PROPERTIES.
6. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER(S) TO MINIMIZE WATER USAGE DURING THE HOURS OF OPERATION FOR SEWER REHABILITATION. IN THE EVENT OF MINIMIZING WATER USAGE IS NOT FEASIBLE, CONTRACTOR SHALL PUMP AND HAUL AS NEEDED TO ELIMINATE ANY IMPACTS TO RESIDENTS.
7. FLOW DATA PROVIDED IS BASED ON PIPE FLOWING FULL. CONTRACTOR SHALL VERIFY FLOW DATA INFORMATION.
8. FLOW DATA DOES NOT INCLUDE INFLOW / INFILTRATION.

**LINE B - SUGGESTED BYPASS PLAN  
COMPKEYS (979982 & 971151)**  
SCALE: 1" = 200'


SANITARY SEWER PIPE FULL FLOW DATA						
COMPKEY	FROM SAWS MH	TO SAWS MH	DIAMETER	SLOPE	LENGTH (FT)	Q(FULL) (GPM)
979982	8050	11622	10"	0.48%	341.51	682.75
971151	11622	11605	10"	0.60%	357.74	763.34

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No.	Revision	Drawn	Approved	Date
1	ADDENDUM NO.1	JJC	MC	3/3/22

**REVISIONS**



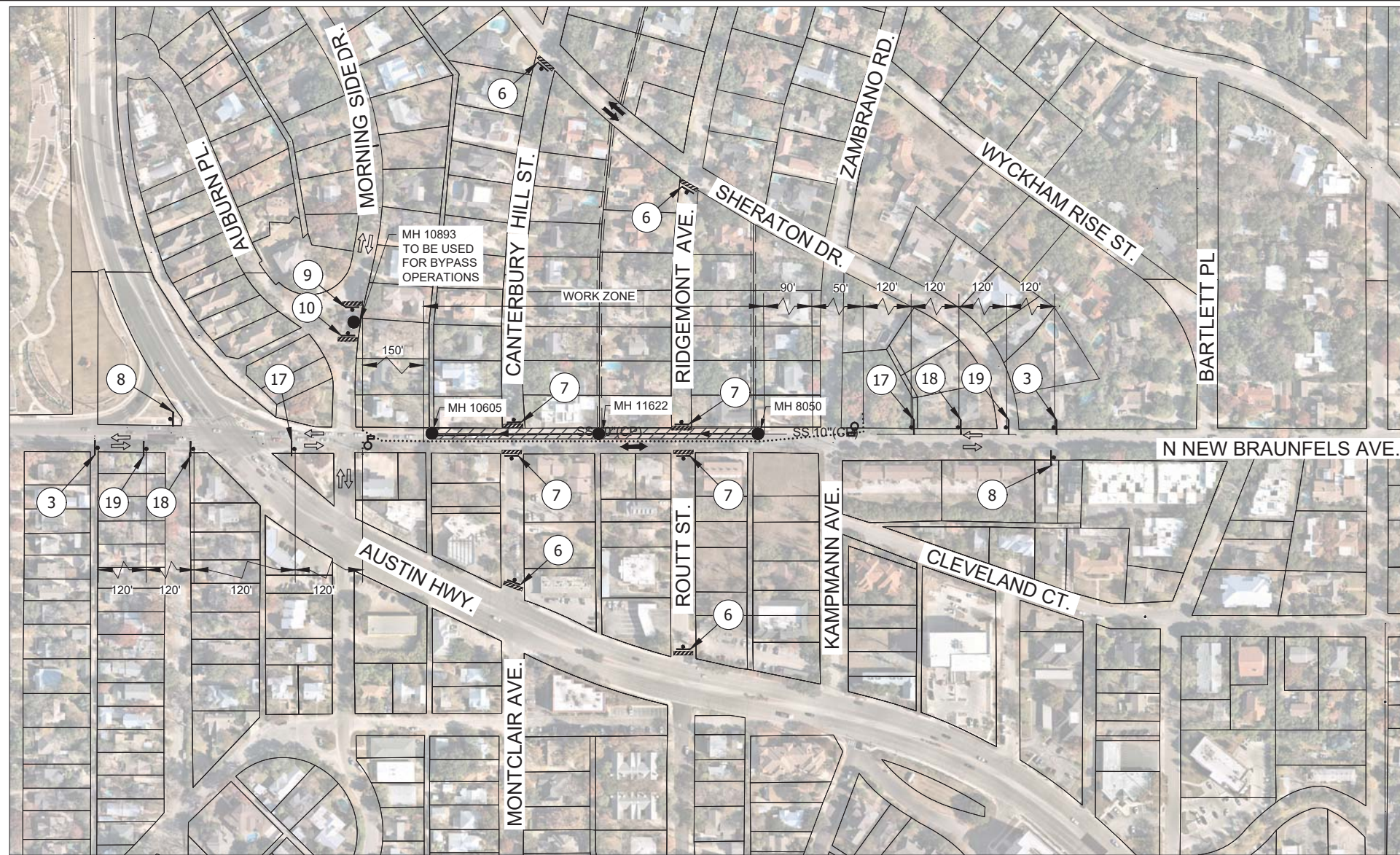
**CENTRAL SEWERSHED  
PACKAGE 14 - CIPP(LD)**  
SITE - B COMPKEYS 979982 & 971151  
SUGGESTED BYPASS PLAN  
SANITARY SEWER REHABILITATION

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM  
CONT. \_\_\_\_\_ BUDGET PROJ.

SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_

MAP No. 000-000	SHEET
SECT. No. _____	<b>120</b>
DR. JJC, LG CK. MC	JOB No. 20-4510 OF 121





**TCP LEGEND**

- FLAGGER
- CHANNELIZING DEVICE
- CONSTRUCTION AREA
- RIGHT-OF-WAY
- PROPOSED TRAFFIC DIRECTION
- EXISTING TRAFFIC DIRECTION
- TRAFFIC SIGN
- TY III BARRICADE (8')
- TY III BARRICADE (4')
- VERTICAL PANEL



HORIZ. SCALE: 1"=300'  
 0 150 300  
 SCALE IN FEET

**TRAFFIC CONTROL PLAN NOTES:**

1. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CITY OF SAN ANTONIO STANDARD DETAILS TRAFFIC CONTROL STANDARDS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), PART VI. FIELD MODIFICATIONS MAY BE MADE TO ADDRESS LOCAL CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
2. WHEN TRAFFIC CONTROL PLAN IS NOT IN EFFECT, REMOVE ALL DEVICES FROM THE TRAVELED LANES AND COVER OR REMOVE ALL WARNING SIGNS.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION PROVIDING A RIDING SURFACE FOR VEHICLES AND RESIDENTS TO ACCESS EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
4. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHOULD BE INSPECTED DAILY AND REPAIRED OR REPLACED AS NECESSARY. AFTER REMOVAL, CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF MODIFICATIONS TO ROADWAY AND SIDEWALK SURFACES, ROADWAY MARKINGS, AND SIGNAGE DUE TO TRAFFIC CONTROL DEVICES OR CONSTRUCTION ACTIVITY.
5. POLICE OFFICER IS NOT ANTICIPATED PER TRAFFIC CONTROL PLAN. CONTRACTOR SHALL COORDINATE WITH COSA AND TXDOT IF REQUIRED AND/OR DEVIATING FROM PLANS.
6. CONTRACTOR IS TO FOLLOW THE COSA REQUIREMENT FOR IMPACTED COLLECTOR OR ARTERIAL STREETS, WHICH REQUIRES THE CONTRACTOR TO PROVIDE A SEVEN (7) DAY NOTIFICATION BY ELECTRONIC MESSAGE BOARD BEFORE WORK IS TO OCCUR AND A THREE (3) DAY NOTIFICATION BE MADE BY DOOR HANGER TO IMPACTED RESIDENTS OR BUSINESSES.
7. 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.

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**LINE B - TRAFFIC CONTROL PLAN**  
**COMPKEYS (979982 & 971151)**  
 1 SCALE: 1" = 300'

 CW20-2 36 X 36	 CW20-3D 48 X 48	 CW21-7D 48 X 48	 CW20-5L 48 X 48 AHEAD PLAQUE 30 X 12	 CW20-5R 48 X 48 XXX FT CW16-3AP 30 X 12	 R11-4 60 X 30	 R11-2 48 X 30	 G20-2a 36 X 18	 CW16-8 M4-9R 30 X 24	 CW16-8 M4-9L 30 X 24	 CW16-8 M4-9S 30 X 24	 M4-8A 24 X 18	 M4-8A 24 X 18	 R3-1 24 X 24	 R3-2 24 X 24
 M	 CW20-7a 36 X 36 XXX FEET M4-8A 24 X 18	 CW21-8 30 X 30	 CW20-4 48 X 48	 CW1-4L 48 X 48 XX MPH CW13-1P 24 X 24	 CW1-4R 30 X 30 XX MPH CW13-1P 24 X 24					 CW20-5L 48 X 48	 CW20-5R 48 X 48	 W4-4L 36 X 36	 W4-4R 36 X 36	

03/03/22

Marcus G. Cantu, P.E.

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1	ADDENDUM NO.1	JJC	MC	3/3/22
No.	Revision	Drawn	Approved	Date

REVISIONS

**CENTRAL SEWERSHED PACKAGE 14 - CIPP(LD)**  
 SITE B - COMPKEYS 979982 & 971151  
 TRAFFIC CONTROL PLAN  
 SANITARY SEWER REHABILITATION

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM  
 CONT. BUDGET PROJ.

SUBMITTED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

MAP No. 000-000 SHEET  
 SECT. No. 121  
 DR. JJC, LG CK. MC JOB No. 20-4510 OF 121