



**2021 CMOM Package 7
Solicitation Number: CO-00685
Job No.: 22-4516**

**ADDENDUM 2
October 24, 2023**

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.

RESPONSES TO QUESTIONS

- 1. Is the lining warranty for the SAWS TX 2021 CMOM Package 7 10 years?**
The warranty period for this contract commences twenty-four (24) months from and after the date of the Conditional Letter of Acceptance. Refer to General Conditions section 9.3 Correction Period/Warranty of the contract documents for warranty period.
- 2. Will the owner extend the Bid due date by one week?**
Yes, see the Changes to the Specifications, #1 and #2 of this Addendum.
- 3. Can the owner provide all 100-year flood plain elevations for all sites within the 100-year flood plain?**
Refer to Changes to the Plans #1 in this Addendum. There are only six sites within the 100-year floodplain. The 100-year floodplain elevation has been provided for those six sites [sites 1, 2, 4, 16, 17, and 36].
- 4. Will the contractor be required to pay any permit or fees for this project outside of sites 20 & 25B? And if so, can the owner give an expectation of fees?**
Refer to Special Conditions section SC4. Permits and SC6. UPRR/Railpros of the contract documents for permit requirements. Contractor is required to obtain all CoSA ROW permits required for this project and shall pay any associated fees. All other permits have been or will be obtained by SAWS.
- 5. Does the contractor have permission from the landowner to inspect Site 3 at 129 Sheraton fence near end of alley?**
Following award of the project, the contractor will have access to 129 Sheraton Drive via a Construction Right of Entry. Refer to Special Specification 3300 Sanitary Sewer Private Lateral (4"-6") of the contract documents for pictures of 129 Sheraton fence.
- 6. Has the owner secured all ROW agreements with all landowners?**
All construction ROE agreements have been obtained as of 10/17/2023. Refer to Changes to the Specifications #5 in this addendum.
- 7. Will the owner cover all direct and indirect costs associated with Archeological Construction monitoring?**
Costs of Archeological Construction monitoring will be covered by the owner. Contractor is to coordinate with SAWS a minimum of 2 weeks in advance of excavation work at sites 27 and 29. Contractor is expected to complete the excavation work at both sites consecutively to facilitate scheduling of the monitor.
- 8. Will the Owner accept a soil modulus of 1000PSI for liner design?**
Contractor may submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values are part of the sealed calculations, and the calculations methods complies with

ASTM F1216. Allowable soil modulus shall not exceed 1,000-psi. Refer to Changes to the Specifications #7 in this addendum.

9. Can the owner list which landowners/locations require to be listed as an additional insured?

Refer to Special Conditions SC5. Construction Right of Entries Sections C & D of the contract documents. Each property owner listed in the table within Section D shall be listed as additional insured. At the request of the property owner at 123 Westminster Ave 1, Foresite Real Estate, Inc shall also be listed as additional insured.

10. Is pre-liner required for all CIPP installations or just the ones called out on the plans.

Pre-liners are only required at the sites called out in the plans. Use of pre-liners at other sites will be at the discretion of the Contractor. Refer to Special Provisions to the Technical Specifications Section I Revision to SAWS Standard Specification Item No. 901 Rehabilitation of Sanitary Sewer by Cured-in-Place Pipe (Hot Water) 901.88 of the contract documents for payment information.

11. Will a private plumber be required for all 4 and six inch sanitary sewer private lateral work?

A private plumber is required for all sanitary sewer private lateral work. Refer to Special Specification 3300 Sanitary Sewer Private Lateral (4"-6") of the contract documents.

12. 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.

Contractor may submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values are part of the sealed calculations, and the calculations methods complies with ASTM F1216. Allowable soil modulus shall not exceed 1,000-psi. Refer to changes to the specifications #7 in this addendum.

CHANGES TO THE SPECIFICATIONS

1. INVITATION TO BIDDERS. The last two (2) paragraphs of the Invitation to Bidders are hereby deleted in their entirety and replaced with the following:

“Due to the COVID-19 emergency and to protect the health of the public, SAWS is implementing new procedures for the submission of bids. Bids will be received either Electronically or through Sealed bids, until 10:00 AM (CDT), November 8, 2023. Electronic bids will be received via the secure SAWS FTP site. Sealed bids will be received by Contract Administration, 2800 U.S. Hwy 281 North, Tower II, Customer Center Building, via a drop box located on the left wall when walking through the first set of double glass doors of the main Tower II entry on the north side of the building, San Antonio, Texas 78212. See the Electronic Bid Opening Instructions attachment for additional information regarding an electronic bid submittal. Electronic bids shall be accompanied by a bid bond in an amount not less than five percent of the total bid price. (Or, if providing SAWS with a cashier's check or certified check in an amount not less than five percent of the total bid price, SAWS will request this within 24 hours from the apparent low bidder. Sealed bids must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price. Bids will then be publicly opened and read aloud by Contract Administration via WebEx.

If Bidders intend to submit bids electronically, Bidders will need to submit a request by **November 7, 2023 10:00 AM (CDT)** to receive access to the File Transfer Protocol (FTP) site via email to **Janie.Powell@saws.org**. Bidder's email requesting access to the FTP site shall provide the legal name of Bidder's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **November 7, 2023 10:00 AM (CDT).**”

2. **ELECTRONIC BID OPENING INSTRUCTIONS.** The title section and first two (2) paragraphs of the Electronic Bid Opening Instruction section are deleted in their entirety and modified to read as follows:

“ELECTRONIC BID OPENING INSTRUCTIONS
November 8, 2023, 10:00 AM (CDT)

In order to receive electronic bids for this project, SAWS will utilize a SAWS secured File Transfer Protocol (FTP) site. Only Bidders bidding as Prime Contractors will need to submit their request prior to **November 7, 2023 10:00 AM (CDT)** to receive access to the FTP site via email to **Janie.Powell@saws.org**. Bidder’s email shall provide the legal name of the Bidder’s company and the intended recipient’s email address and phone number. No requests for FTP site access will be accepted after **November 7, 2023, 10:00 AM (CDT)**. Once a Bidder is approved for access, an email with a hyperlink to the FTP site and a unique password for the Bidder will be provided to the Bidder’s email recipient.

Once access is received, Bidders may upload the required documents per the Bid Proposal checklist any time before **November 7, 2023, 10:00 AM (CDT)**. Please ensure to allow sufficient time should Bidder’s experience technical difficulties in uploading the required documents. No changes to the Bid nor bid price can be made once the Bid has been submitted.”

3. Bid Proposal, BP-1 to BP-5 – Remove in its entirety and replace with the revised version attached to this Addendum. Respondents shall utilize the attached Bid Proposal when submitting a bid for this project. Failure to use the revised bid proposal may result in the bid being found non-responsive and rejected. The revised Bid Proposal removes Bid Item #130 “Disposal of Impacted Soils”.
4. Remove General Wage Decision for Building type: Number TX20230231 09/01/2023 in its entirety and replace with the revised version TX20230231 10/13/2023 provided in this addendum.
5. Special Conditions SC5. Construction Right of Entries Section D, remove the third and fourth paragraphs regarding pending Construction ROW Agreements for Site 3. The remainder of the section remains the same.
6. Special Conditions SC6. UPRR/RAILPROS, remove the following statement from the second paragraph: "adherence to the UPRR Track Monitoring Guidelines and Excavation Requirements (refer to the UPRR Document Section of the Contract Documents)". Track and ground monitoring will not be required by UPRR at Site 30 or Site 35. The remainder of the section remains the same.
7. Special Provisions to the Technical Specifications, add the following language to Section I. Revision to SAWS Standard Specification Item No. 901 Rehabilitation of Sanitary Sewer by Cured-in-Place Pipe (Hot Water) 901.4: Delete the following section 901.4.3.e.6 Structural Requirements:

“Soil Modulus: 500 psi”

Replace with the following:

“Soil Modulus: Contractor may submit calculations signed and sealed by a Texas Professional Engineer utilizing other values for soil modulus so long as those values are part of the sealed calculations, and the calculations methods complies with ASTM F1216. Allowable soil modulus shall not exceed 1,000psi.”

CHANGES TO THE PLANS

1. Remove the following sheets dated 09/26/23 and 9/29/23 in their entirety and replace with the attached sheets dated 10/20/2023:
- a. Sheet 005 GENERAL NOTES (Sheet 3 of 3)
 - Modified to remove UPRR track and ground monitoring requirements.
 - b. Sheet 006 OVERALL QUANTITIES
 - Modified to reflect removal of line item 130.
 - c. Sheet 008 SITE 1 CMPKY 973775, 973902 STA 10+00 - 16+11 CIPP REHAB
 - A note identifying the 100-year flood elevation has been added.

- d. Sheet 011 SITE 2 CMPKY 3466470 STA 10+00 - 10+98 CIPP RHB & PNT RPR
 - A note identifying the 100-year flood elevation has been added.
- e. Sheet 017 SITE 4 CMPKY 965035 STA 10+00 - 13+37 CIPP RHB & PNT RPR
 - A note identifying the 100-year flood elevation has been added.
- f. Sheet 059 SITE 16 CMPKY 995879, 1000164 STA 10+00 - 14+50 CIPP RHB
 - A note identifying the 100-year flood elevation has been added.
- g. Sheet 063 SITE 17 CMPKY 975245 STA 10+00 - 13+68 CIPP RHB
 - A note identifying the 100-year flood elevation has been added.
- h. Sheet 079 SITE 22 CMPKY 989698 STA 10+00 - 14+78 CIPP RHB
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED BY EXCAVATION DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- i. Sheet 102 SITE 28 CMPKY 987364 STA 10+00 - 15+00 CIPP RHB & PNT RPR
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- j. Sheet 103 SITE 28 CMPKY 987364, 996370 STA 15+00 - 20+00 CIPP RHB
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- k. Sheet 104 SITE 28 CMPKY 987364, 996370 STA 20+00 - 23+60 CIPP RHB & PNT RPR
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- l. Sheet 107 SITE 29 COMPKEY 986518 STA. 10+00 - 14+00 CIPP REHAB
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- m. Sheet 108 SITE 29 COMPKEY 986518 & 993554 STA. 14+00 - 18+00 CIPP REHAB
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- n. Sheet 109 SITE 29 COMPKEY 993554 STA. 18+00 - 19+48 CIPP REHAB
 - The note "CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)" was added.
- o. Sheet 116 SITE 33 CMPKY 987364, 996370 STA 10+00 - 15+00 CIPP RHB
 - The note "SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10" was removed.

- p. Sheet 123 SITE 36 CMPKY 986477 STA 10+00 - 13+61 CIPP RHB & PNT RPR
- The note “SAWS IS IN THE PROCESS OF OBTAINING A PHASE II ESA REPORT FOR THIS SITE. REFER TO CONTRACT DOCUMENTS SC10” was removed.
 - The note “CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI)” was added.
 - A note identifying the 100-year flood elevation has been added.

END OF ADDENDUM

This Addendum, including these five (5) pages, is thirty-four (34) pages with attachments in its entirety.

Attachments:

- 1 – Revised Bid Proposal (6 pages total)
- 2 – Wage Decision for Building 10/13/2023 (7 pages total)
- 3 – Revised Plan Sheets (16 pages total)



Ian Toohey, P.E.
Garver



10/24/2023

Project Name: 2021CMOM Package 7
Solicitation No. :CO-00685
Job No: 22-4516

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 **392** 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

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
1	103	Remove Concrete Curb (COSA Spec)	LF	140		
2	103	Remove Concrete Sidewalks & Driveways (COSA Spec)	SF	2367		
3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	170		
4	202	Prime Coat (COSA Spec)	GAL	193		
5	203	Tack Coat (COSA Spec)	GAL	1008		
6	205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	592		
7	205.2	Hot Mix Asphaltic Pavement, Type B (12" Comp. Depth) (COSA Spec)	SY	4		
8	205.3	Hot Mix Asphaltic Pavement, Type C (3" Comp. Depth) (COSA Spec)	SY	2647		
9	205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	7340		
10	208	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement (2" Depth)	SY	7038		
11	208	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement (3" Depth)	SY	2642		
12	413.2	Flowable Fill (High Strength)	CY	15		
13	500	Concrete Curb and Gutter (COSA Spec)	LF	256		
14	502	Concrete Sidewalk (COSA Spec)	SY	159		
15	503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	241		
16	505.1	Concrete Riprap (COSA Spec)	SY	31		
17	506.1	Concrete Retaining Walls - Combination Type (COSA Spec)	CY	7		
18	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 1	LS	1		
19	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 2	LS	1		
20	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 3	LS	1		
21	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 4	LS	1		
22	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 5	LS	1		
23	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 6	LS	1		
24	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 7	LS	1		
25	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 8	LS	1		
26	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 9	LS	1		
27	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 10	LS	1		
28	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 11	LS	1		
29	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 12	LS	1		
30	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 14	LS	1		
31	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 15	LS	1		

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
32	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 16	LS	1		
33	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 17	LS	1		
34	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 18	LS	1		
35	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 20	LS	1		
36	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 21	LS	1		
37	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 22	LS	1		
38	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 23	LS	1		
39	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 24	LS	1		
40	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 25	LS	1		
41	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 26	LS	1		
42	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 27	LS	1		
43	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 28	LS	1		
44	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 29	LS	1		
45	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 30	LS	1		
46	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 33	LS	1		
47	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 35	LS	1		
48	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 36	LS	1		
49	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 37	LS	1		
50	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 38	LS	1		
51	531	Sidewalks (TxDOT Spec)	SY	10		
52	535.1	4-Inch Wide Yellow Line (COSA Spec)	LF	3966		
53	535.2	4-Inch Wide White Line (COSA Spec)	LF	239		
54	535.7	24-Inch Wide White Line (COSA Spec)	LF	560		
55	536.22	12-Inch Wide Black Line (Contrast) (COSA Spec)	LF	1120		
56	537.6	Traffic Button (Type I-C)	EA	57		
57	537.8	Traffic Button (Type II-A-A)	EA	107		
58	539.5	12-Inch Wide White Line (COSA Spec)	LF	820		
59	550	Trench Excavation Safety Protection	LF	124		
60	848	8" PVC SDR-26 (160 psi) Sewer Line	LF	124		
61	851	Manhole Adjustment	EA	58		
62	852	External Drop Connection	EA	1		

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
63	852	Sanitary Sewer Drop Manhole 4' Dia. (0'-6')	EA	1		
64	852	Extra Depth Manhole (>6')	VF	53		
65	854	One-way Sanitary Sewer Clean-Out	EA	2		
66	852	Sanitary Sewer Manhole 4' Dia. (0'-6')	EA	13		
67	854	Two-way Sanitary Sewer Clean-Out	EA	103		
68	854	Sanitary Sewer Lateral	LF	2223		
69	855	Reconstruction of Existing 4' Dia. Manhole	EA	12		
70	860	Vertical Stacks	VF	169		
71	862	Abandonment of Sanitary Sewer Manholes	EA	1		
72	862	Abandonment of Sanitary Sewer Main (All Sizes)	LF	124		
73	864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 16	LS	1		
74	864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 33	LS	1		
75	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 1	LS	1		
76	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 2	LS	1		
77	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 3	LS	1		
78	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 4	LS	1		
79	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 5	LS	1		
80	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 6	LS	1		
81	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 7	LS	1		
82	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 8	LS	1		
83	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 9	LS	1		
84	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 10	LS	1		
85	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 11	LS	1		
86	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 12	LS	1		
87	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 14	LS	1		
88	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 15	LS	1		
89	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 16	LS	1		
90	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 17	LS	1		
91	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 18	LS	1		
92	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 20	LS	1		
93	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 21	LS	1		

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
94	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 22	LS	1		
95	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 23	LS	1		
96	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 24	LS	1		
97	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 25	LS	1		
98	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 26	LS	1		
99	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 27	LS	1		
100	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 28	LS	1		
101	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 29	LS	1		
102	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 30	LS	1		
103	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 33	LS	1		
104	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 35	LS	1		
105	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 36	LS	1		
106	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 37	LS	1		
107	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 38	LS	1		
108	866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	19363		
109	866	Sewer Main Television Inspection (Pre-Construction) (18"-24" Dia.)	LF	592		
110	866	Sewer Main Television Inspection (Post-Construction) (8"-15" Dia.)	LF	124		
111	868	Sanitary Sewer Main Cleaning - Heavy (8" - 15")	LF	87		
112	868	Sanitary Sewer Main Cleaning - Mechanical (8" - 15")	LF	87		
113	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	15850		
114	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 10" (All Depths)	LF	1064		
115	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 12" (All Depths)	LF	290		
116	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 15" (All Depths)	LF	2016		
117	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 21" (All Depths)	LF	592		
118	910	Rehabilitation of Existing 4' Dia. Manhole	VF	468		
119	910.2	Sewer Structure Rehabilitation (Non-Circular Manholes, and Manholes > 4' Dia.)	VF	7		
120	1020	Water Main Break/Leak Repairs (6"-16" Dia.), All Types	EA	2		
121	1103	Obstruction Removal - Remote Device	EA	10		
122	1103	Point Repair (0'-9') (all depths)	EA	35		
123	1103	Point Repair, Additional Length > 9' (all depths)	LF	23		
124	1109	Service Reconnections - Remote Cutting Connection	EA	370		

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
125	SS 1901	Sanitary Sewer Lateral Rehabilitation (Up to 20-ft)	EA	14		
126	SS 2010	Removal and Replacement of Fencing (Chain Link)	LF	66		
127	SS 2010	Removal and Replacement of Fencing (Wood)	LF	20		
128	SS 3300	Sanitary Sewer Private Lateral (4"- 6") (Including COSA Permit and Licensed Plumber)	EA	1		
129	SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	28		
Subtotal (Items 1 - 129)						
130	3001	Pole Bracing, All Sites	ALW	1	\$ 72,000	\$ 72,000
131	SC6	Union Pacific Railroad Flaggers	ALW	1	\$ 25,000	\$ 25,000
132	SC6	UPRR Permit Extension Allowance	ALW	1	\$ 10,000	\$ 10,000
133	102.1	Intermediate Demobilization and Remobilization	EA	1		
134	100	Mobilization (Max 10% of Line Items 1-129)	LS	1		
135	101	Preparing Right-of-Way (Max 5% of Line Items 1-129)	LS	1		
Subtotal (Items 130 - 135)						
SUBTOTAL (ITEMS 1-135)						
<p>Mobilization lump sum bid shall be limited to a maximum 10% of the Subtotal (Items 1-129) amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Subtotal (Items 1-129) amount. The Subtotal (Items 1-129) amount is defined as all bid items EXCLUDING Item 130, 3001, Pole Bracing, All Sites; Item 131, SC6, Union Pacific Railroad Flaggers; Item 132, SC6, UPRR Permit Extension Allowance; Item 133, 102.1, Intermediate Demobilization and Remobilization; Item 134, 100, Mobilization; and Item 135, 101, Preparing Right-of-Way. In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Preparation of ROW bid items, the written percentage will govern. If the percentage written 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.</p>						
TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1-135)					\$	-

"General Decision Number: TX20230231 10/13/2023

Superseded General Decision Number: TX20220231

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 \$16.20 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 2023.
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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 \$12.15 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 2023.
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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 <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023

2 02/03/2023
 3 04/14/2023
 4 08/25/2023
 5 09/01/2023
 6 10/13/2023

ASBE0087-014 06/04/2023

Rates Fringes

ASBESTOS WORKER/HEAT & FROST
 INSULATOR (Duct, Pipe and
 Mechanical System Insulation)....\$ 28.95 8.39

* BOIL0074-003 07/01/2023

Rates Fringes

BOILERMAKER.....\$ 37.00 24.64

ELEC0060-003 06/01/2022

Rates Fringes

ELECTRICIAN (Communication
 Technician Only).....\$ 31.95 15%+6.41

ELEC0060-004 06/01/2022

Rates Fringes

ELECTRICIAN (Excludes Low
 Voltage Wiring).....\$ 31.95 15%+6.41

ELEV0081-001 01/01/2023

Rates Fringes

ELEVATOR MECHANIC.....\$ 46.83 37.335+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.

ENGI0450-002 04/01/2014

Rates Fringes

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

IRON0066-013 06/01/2023

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 26.00 7.53

IRON0084-011 06/01/2023

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 27.51	8.13

PLUM0142-009 07/01/2023

	Rates	Fringes
HVAC MECHANIC (Electrical Temperature Control Installation & Unit Installation Only).....	\$ 35.95	11.25
PIPEFITTER (Including HVAC Pipe Installation).....	\$ 35.95	11.25
Including HVAC Pipe Installation		
PLUMBER.....	\$ 35.95	11.25
Excludes HVAC Pipe Installation		

SFTX0669-002 04/01/2023

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 34.60	23.30

SHEE0067-004 07/03/2023

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 30.24	15.89
HVAC Duct Installation Only,	\$ 30.24	15.89

* 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

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

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 ** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). 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)).

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 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 DECISION

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COSA GENERAL NOTES:

- BEFORE ANY NIGHT WORK, CONTRACTOR TO PROVIDE NOTIFICATION TO A COSA INSPECTOR 48 HOURS IN ADVANCE TO VERIFY SCOPE OF THE WORK PLANNED.
- NIGHTTIME WORK HOURS ARE SUNDAY TO THURSDAY 8PM TO 5AM - TRAFFIC CONTROL BY CERTIFIED BARRICADE COMPANY AND MEETING MUTCD STANDARDS - POLICE OFFICER REQUIRED - MUST MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES - NO SPOILS SHALL BE LEFT IN THE ROW - ALL TRAFFIC CONTROL DEVICES MUST BE TURNED AROUND AT THE END OF EACH WORK PERIOD.

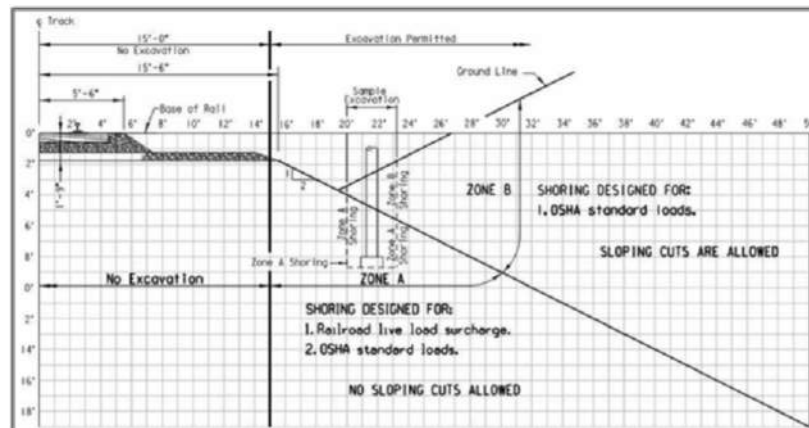
COSA SWE NOTES:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHTS-OF-WAY, AND FLOODPLAINS.
- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-206-8433 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORE PITS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORE PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL.

RAILROAD PIPELINE OR CULVERT ACCOMMODATION NOTES:

- THE PROPOSED PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S DITCHES AND/OR DRAINAGE STRUCTURES. THIS INCLUDES TEMPORARY CONSTRUCTION CONDITIONS WHICH MAY OBSTRUCT OR RE-ROUTE SURFACE DRAINAGE WITH UPRR RIGHT-OF-WAY.
- THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
- REGARDLESS OF UNDERLYING LAND OWNERSHIP, ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT UPRR-BNSF GUIDELINES FOR TEMPORARY SHORING. THE METHOD OF SHORING PERMISSIBLE IS DEPENDENT UPON THE AVAILABILITY OF TRACK WINDOWS, IF ANY.
- THE CONTRACTOR SHALL SUBMIT AND PROVIDE SUFFICIENT SAFETY MEASURES WHICH PROTECT UNATTENDED EXCAVATIONS TO THE RAILROAD FOR APPROVAL.
- ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES. DEMOLITION ACTIVITIES SHALL BE DESIGNED TO CAUSE NO INTERRUPTION TO THE RAILROAD'S OPERATION, ENABLING THE TRACK(S) TO REMAIN OPEN TO TRAFFIC PER THE RAILROAD'S REQUIREMENTS. THE METHOD OF DEMOLITION PERMISSIBLE IS DEPENDENT UPON THE AVAILABILITY OF TRACK WINDOWS, IF ANY.

- RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.
- THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING CULVERT AND PIPELINE CONSTRUCTION REQUIREMENTS WHILE WITHIN THE RAILROAD'S RIGHT-OF-WAY.
 - THE BORING OPERATION SHALL BE PROGRESSED ON A CONTINUOUS (24/7) BASIS WITHOUT STOPPAGE UNTIL THE LEADING EDGE OF THE PIPE HAS COMPLETELY PASSED UNDER ALL TRACK AND THROUGH ZONE A ON EACH SIDE AS SHOWN BELOW:



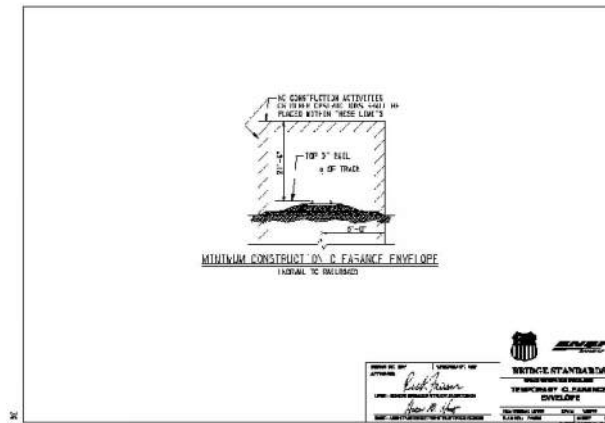
- THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE WHILE WITHIN ZONE A AND UNDER THE TRACKS.
- THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM THE WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED AND NEEDS TO BE REMOVED.
- THE OVER-CUT BY THE CUTTING HEAD SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE PIPE (PLUS COATING) BY THAT APPROXIMATELY 1/2 INCH, GROUTING OR OTHER METHODS APPROVED BY THE RAILROAD, SHALL BE EMPLOYED TO FILL SUCH VOIDS.
- THE FACE OF THE CUTTING EDGE SHALL BE ARRANGED TO RESTRICT AN OTHERWISE FREE FLOW MATERIAL LEADING TO OVER-EXCAVATING MATERIAL AHEAD/ABOVE THE PIPE.
- WORK PLANS AND DESCRIPTION OF THE EQUIPMENT TO BE USED SHALL BE SUBMITTED TO THE RAILROAD FOR APPROVAL AND NO WORK SHALL PROCEED UNTIL SUCH APPROVAL IS OBTAINED.
- WORK PLANS SHALL DETAIL ALL CONTINGENCY MEASURES REQUIRED TO ELIMINATE DISRUPTIONS TO RAILROAD OPERATIONS.

8. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

9. THE CONTRACTOR MUST SUBMIT THEIR UTILITY ABANDONMENT PLAN WHICH COMPLIES WITH THE CURRENT UPRR GUIDELINES FOR ABANDONMENT OF SUBSURFACE UTILITY STRUCTURES TO THE RAILROAD FOR REVIEW.

10. **EMAIL BEFORE YOU DIG.** PRIOR TO EXCAVATION, DISRUPTING, OR WORKING ON THE RAILROAD PROPERTY THE CONTRACTOR SHALL LOCATE AND PROTECT UPRR FACILITIES SENDING REQUESTS TO THE UPRR "CALL BEFORE YOU DIG" (CBUD) EMAIL. GUIDANCE CAN BE FOUND AT THE FOLLOWING WEB ADDRESS: WWW.UPR.COM/CBUD.

11. CONSTRUCTION ACTIVITIES ARE NOT ALLOWED WITHIN THE "MINIMUM CONSTRUCTION CLEARANCE ENVELOPE" AS THEY WOULD OTHERWISE DISRUPT RAILROAD OPERATIONS.



PIPE MATERIAL LEGEND

CP	CONCRETE PIPE
VCP	VITRIFIED CLAY PIPE
PVC	POLYVINYL CHLORIDE
CI	CAST IRON
CT	CLAY TILE



GARVER Registration No. F-5713
 13750 San Pedro Avenue
 Suite 350
 San Antonio, TX 78232
 (210) 447-6250

▲	Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved	Date
REVISIONS				
2021 CMOM PKG 7				
GENERAL NOTES (SHEET 3 OF 3)				
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM				
CONT. BUDGET PROJ. 00-00-00				
SUBMITTED _____				
APPROVED _____				
MAP No. 000-000				SHEET
SECT. No.				005
DR:UOP	CK:MML	JOB No. 22-4516		OF 145

File: I:\2021\12\10\07110 - saws 2021 cmom pkg 7\Drawings\SAWS 01-G002.dwg
 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:17 AM

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY
1	103	Remove Concrete Curb (COSA Spec)	LF	140
2	103	Remove Concrete Sidewalks & Driveways (COSA Spec)	SF	2367
3	103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	170
4	202	Prime Coat (COSA Spec)	GAL	193
5	203	Tack Coat (COSA Spec)	GAL	1008
6	205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	592
7	205.2	Hot Mix Asphaltic Pavement, Type B (12" Comp. Depth) (COSA Spec)	SY	4
8	205.3	Hot Mix Asphaltic Pavement, Type C (3" Comp. Depth) (COSA Spec)	SY	2647
9	205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	7340
10	208	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement (2" Depth)	SY	7038
11	208	Salvaging, Hauling & Stockpiling Reclaimable Asphaltic Pavement (3" Depth)	SY	2642
12	413.2	Flowable Fill (High Strength)	CY	15
13	500	Concrete Curb and Gutter (COSA Spec)	LF	256
14	502	Concrete Sidewalk (COSA Spec)	SY	159
15	503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	241
16	505.1	Concrete Riprap (COSA Spec)	SY	31
17	506.1	Concrete Retaining Walls - Combination Type (COSA Spec)	CY	7
18	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 1	LS	1
19	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 2	LS	1
20	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 3	LS	1
21	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 4	LS	1
22	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 5	LS	1
23	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 6	LS	1
24	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 7	LS	1
25	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 8	LS	1
26	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 9	LS	1
27	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 10	LS	1
28	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 11	LS	1
29	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 12	LS	1
30	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 14	LS	1
31	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 15	LS	1
32	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 16	LS	1
33	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 17	LS	1
34	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 18	LS	1
35	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 20	LS	1
36	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 21	LS	1
37	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 22	LS	1
38	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 23	LS	1
39	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 24	LS	1
40	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 25	LS	1
41	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 26	LS	1
42	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 27	LS	1
43	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 28	LS	1
44	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 29	LS	1
45	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 30	LS	1
46	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 33	LS	1
47	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 35	LS	1
48	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 36	LS	1
49	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 37	LS	1
50	530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 38	LS	1
51	531	Sidewalks (TxDOT Spec)	SY	10
52	535.1	4-Inch Wide Yellow Line (COSA Spec)	LF	3966
53	535.2	4-Inch Wide White Line (COSA Spec)	LF	239
54	535.7	24-Inch Wide White Line (COSA Spec)	LF	560
55	536.22	12-Inch Wide Black Line (Contrast) (COSA Spec)	LF	1120
56	537.6	Traffic Button (Type I-C)	EA	57
57	537.8	Traffic Button (Type II-A-A)	EA	107
58	539.5	12-Inch Wide White Line (COSA Spec)	LF	820
59	550	Trench Excavation Safety Protection	LF	124
60	848	8" PVC SDR-26 (160 psi) Sewer Line	LF	124
61	851	Manhole Adjustment	EA	58
62	852	External Drop Connection	EA	1
63	852	Sanitary Sewer Drop Manhole 4' Dia. (0'-6')	EA	1
64	852	Extra Depth Manhole (>6')	VF	53
65	854	One-way Sanitary Sewer Clean-Out	EA	2
66	852	Sanitary Sewer Manhole 4' Dia. (0'-6')	EA	13
67	854	Two-way Sanitary Sewer Clean-Out	EA	103
68	854	Sanitary Sewer Lateral	LF	2223
69	855	Reconstruction of Existing 4' Dia. Manhole	EA	12
70	860	Vertical Stacks	VF	169

ITEM NO	SPEC NO	DESCRIPTION	UNIT	EST. QUANTITY
71	862	Abandonment of Sanitary Sewer Manholes	EA	1
72	862	Abandonment of Sanitary Sewer Main (All Sizes)	LF	124
73	864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 16	LS	1
74	864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 33	LS	1
75	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 1	LS	1
76	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 2	LS	1
77	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 3	LS	1
78	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 4	LS	1
79	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 5	LS	1
80	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 6	LS	1
81	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 7	LS	1
82	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 8	LS	1
83	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 9	LS	1
84	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 10	LS	1
85	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 11	LS	1
86	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 12	LS	1
87	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 14	LS	1
88	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 15	LS	1
89	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 16	LS	1
90	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 17	LS	1
91	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 18	LS	1
92	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 20	LS	1
93	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 21	LS	1
94	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 22	LS	1
95	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 23	LS	1
96	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 24	LS	1
97	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 25	LS	1
98	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 26	LS	1
99	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 27	LS	1
100	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 28	LS	1
101	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 29	LS	1
102	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 30	LS	1
103	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 33	LS	1
104	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 35	LS	1
105	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 36	LS	1
106	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 37	LS	1
107	865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 38	LS	1
108	866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	19363
109	866	Sewer Main Television Inspection (Pre-Construction) (18"-24" Dia.)	LF	592
110	866	Sewer Main Television Inspection (Post-Construction) (8"-15" Dia.)	LF	124
111	868	Sanitary Sewer Main Cleaning - Heavy (8" - 15")	LF	87
112	868	Sanitary Sewer Main Cleaning - Mechanical (8" - 15")	LF	87
113	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	15850
114	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 10" (All Depths)	LF	1064
115	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 12" (All Depths)	LF	290
116	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 15" (All Depths)	LF	2016
117	901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 21" (All Depths)	LF	592
118	910	Rehabilitation of Existing 4' Dia. Manhole	VF	468
119	910.2	Sewer Structure Rehabilitation (Non-Circular Manholes, and Manholes > 4' Dia.)	VF	7
120	1020	Water Main Break/Leak Repairs (6"-16" Dia.), All Types	EA	2
121	1103	Obstruction Removal - Remote Device	EA	10
122	1103	Point Repair (0'-9') (all depths)	EA	35
123	1103	Point Repair, Additional Length > 9' (all depths)	LF	23
124	1109	Service Reconnections - Remote Cutting Connection	EA	370
125	SS 1901	Sanitary Sewer Lateral Rehabilitation (Up to 20-ft)	EA	14
126	SS 2010	Removal and Replacement of Fencing (Chain Link)	LF	66
127	SS 2010	Removal and Replacement of Fencing (Wood)	LF	20
128	SS 3300	Sanitary Sewer Private Lateral (4"-6") (Including COSA Permit and Licensed Plumber)	EA	1
129	SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	28
130	3001	Pole Bracing, All Sites	ALW	1
131	SC6	Union Pacific Railroad Flaggers	ALW	1
132	SC6	UPRR Permit Extension Allowance	ALW	1
133	102.1	Intermediate Demobilization and Remobilization	EA	1
134	100	Mobilization (Max 10% of Line Items 1-129)	LS	1
135	101	Preparing Right-of-Way (Max 5% of Line Items 1-129)	LS	1

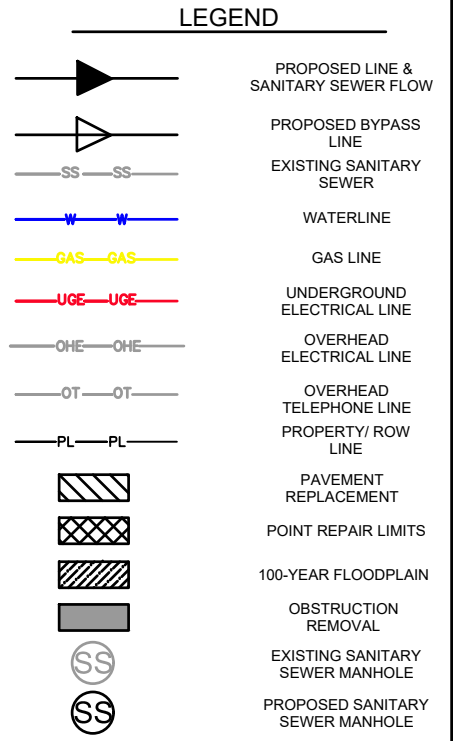
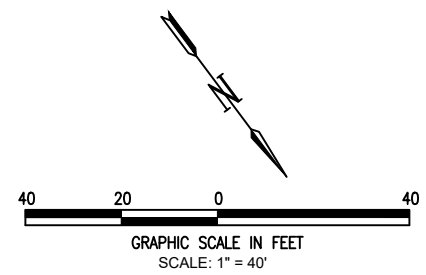
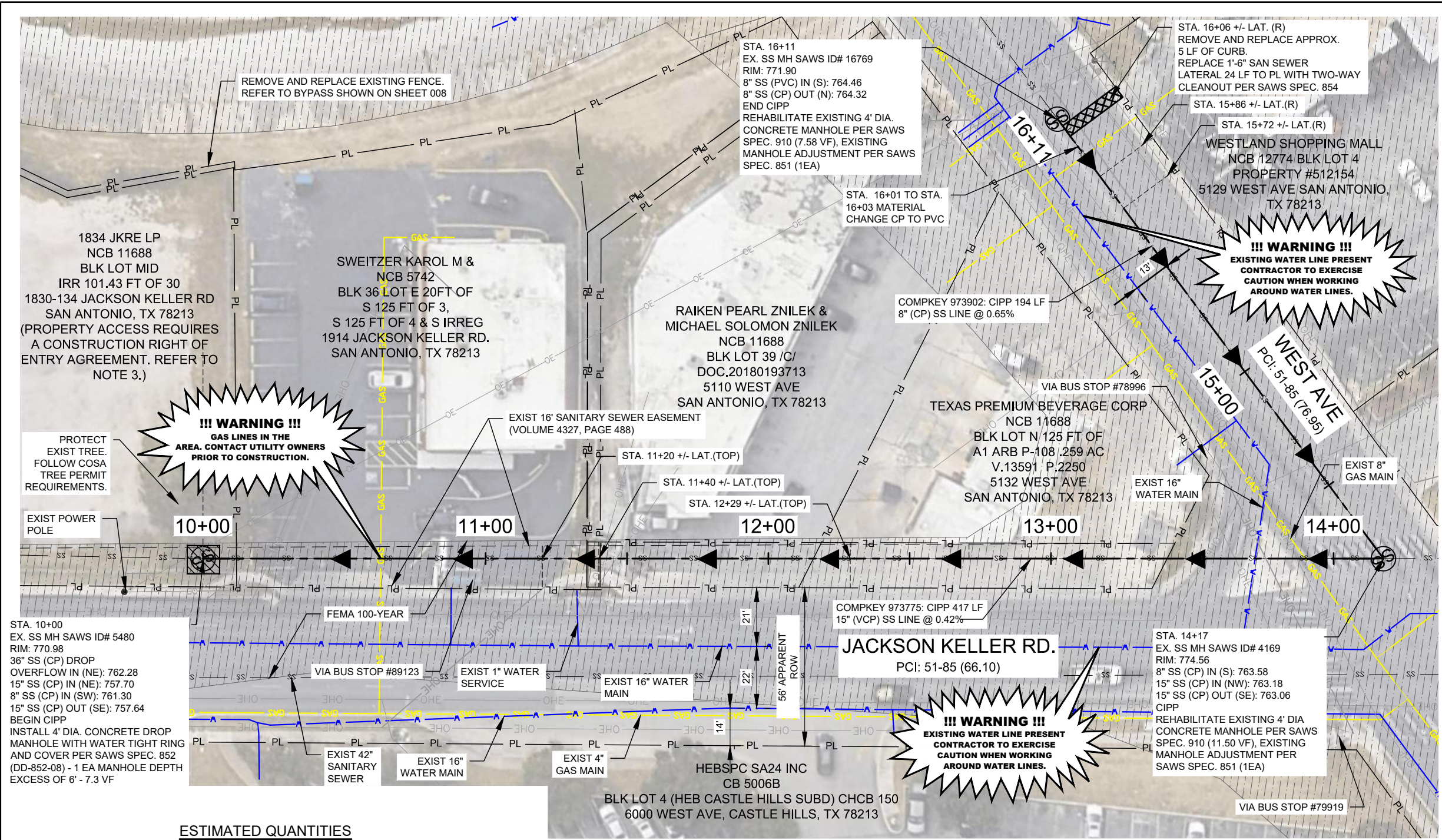


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▲	Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved	Date

REVISIONS
2021 CMOM PKG 7
OVERALL QUANTITIES

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
CONT. BUDGET PROJ. 00-00-00
SUBMITTED _____
APPROVED _____
MAP No. 000-000 SHEET 008
SECT. No. _____
DR:UOP CK:MML JOB No. 22-4516 OF 145



SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	2
203	Tack Coat (COSA Spec)	GAL	1
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	7
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	7
500	Concrete Curb and Gutter (COSA Spec)	LF	5
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 1	LS	1
851	Manhole Adjustment	EA	2
852	Sanitary Sewer Drop Manhole 4' Dia. (0'-6")	EA	1
852	Extra Depth Manhole (>6")	VF	8
854	Sanitary Sewer Lateral	LF	24
854	Two-way Sanitary Sewer Clean-Out	EA	1
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 1	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	611
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	194
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 15" (All Depths)	LF	417
910	Rehabilitation of Existing 4' Dia. Manhole	VF	19
1109	Service Reconnections - Remote Cutting Connection	EA	5
SS 2010	Removal and Replacement of F	LF	6
SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	2

PROP. 15" & 8" SANITARY SEWER CIPP REHABILITATION SEGMENT (973775, 973902) - 611 LF

1 008 SCALE 1" = 40'

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4.
- COSA FLOODPLAIN DEVELOPMENT PERMIT (FPDP) IS REQUIRED AT THIS SITE. SAWS TO OBTAIN FPDP.
- CONTRACTOR SHALL PROVIDE NOT LESS THAN 2 WEEKS NOTICE TO PROPERTY OWNER BEFORE ENTERING PROPERTY. REFER TO CONSTRUCTION RIGHT OF ENTRY AGREEMENT FOR PROPERTY OWNER'S CONTACT INFORMATION AND SPECIFIED WORK AREA LIMITS.
- CONTRACTOR TO PURSUE NIGHT WORK AT THIS SITE. REFER TO COSA NOTES ON SHEET 5.
- COSA TREE PERMIT IS REQUIRED AT THIS SITE. CONTRACTOR TO FOLLOW REQUIREMENTS OUTLINED WITHIN THE PERMIT.
- CONTRACTOR SHALL REFER TO CPS NOTES ON SHEET 4 FOR POWER POLE BRACING AND OTHER DETAILED INFORMATION.
- THE 100-YEAR FLOOD PLAIN ELEVATION IS 772.00 FEET.

SERVICE LATERALS

COMPKEY 973775
 STA. 11+20 (TOP)
 STA. 11+40 (TOP)
 STA. 12+29 (TOP)

COMPKEY 973902
 STA. 15+72 (R)
 STA. 15+86 (R)
 STA. 16+06 (R) (PROTRUDING)

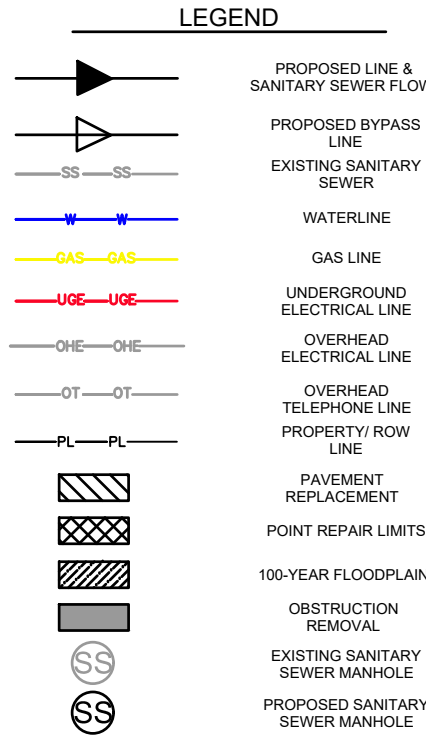
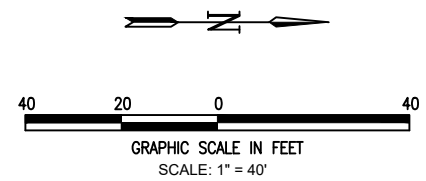
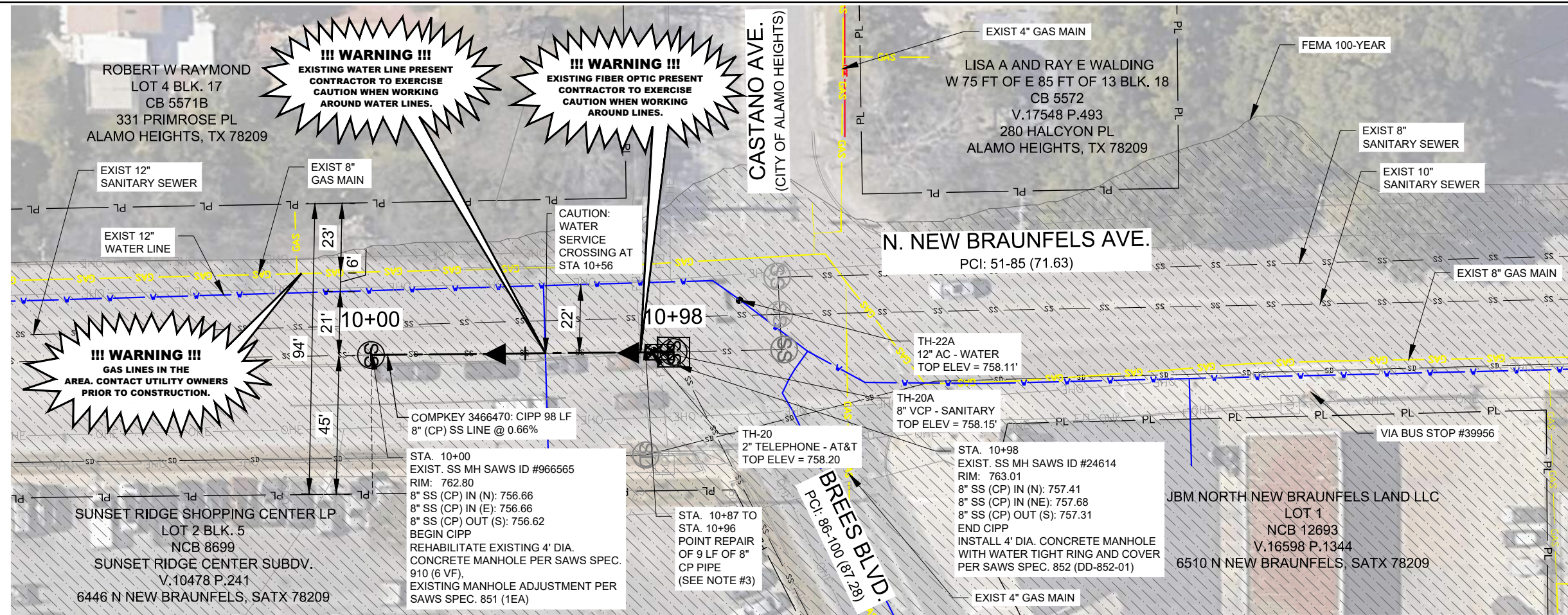
NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



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 Suite 350
 San Antonio, TX 78232
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ADDENDUM #2	AJD	MML	10/23
REVISIONS			
2021 CMOM PKG 7			
SITE 1 CMPKY 973775, 973902 STA 10+00 - 16+11 CIPP REHAB			
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM		CONT. BUDGET PROJ. 00-00-00	
SUBMITTED		APPROVED	
MAP No. 000-000	SHEET 008		OF 145
DR: UOP	CK: MML	JOB No. 22-4516	

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 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:18 AM



PROP. POINT REPAIR (1) AND 8" SANITARY SEWER CIPP REHABILITATION SEGMENT (3466470) - 98 LF

1
011
SCALE 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	1
203	Tack Coat (COSA Spec)	GAL	1
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	4
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	5
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 2	LS	1
851	Manhole Adjustment	EA	1
852	Sanitary Sewer Manhole 4' Dia. (0'-6")	EA	1
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 2	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	98
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	98
910	Rehabilitation of Existing 4' Dia. Manhole	VF	6
1103	Point Repair (0'-9") (all depths)	EA	1
SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	2

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4.
- COSA FLOODPLAIN DEVELOPMENT PERMIT (FPDP) IS REQUIRED AT THIS SITE. SAWS TO OBTAIN FPDP.
- CCTV SHOWS AN EXISTING AT&T COMMUNICATION LINE DRILLED INTO THE SEWER PIPE AT THE POINT REPAIR 87 TO 96 LF FROM MH #966565. CONTRACTOR TO COORDINATE WITH AT&T FOR A UTILITY REPRESENTATIVE ONSITE WHEN MAKING THE REPAIR AND ADJUSTING THE COMMUNICATION LINE OUTSIDE OF SAWS INFRASTRUCTURE.
- THE 100-YEAR FLOOD PLAIN ELEVATION IS 763.00 FEET.

SERVICE LATERALS

COMPKEY 3466470
STA. 10+08 (R) CAPPED
STA. 10+11 (L) CAPPED

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



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▲	Addendum #2	AJD	MML	10/23
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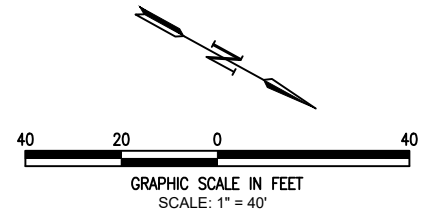
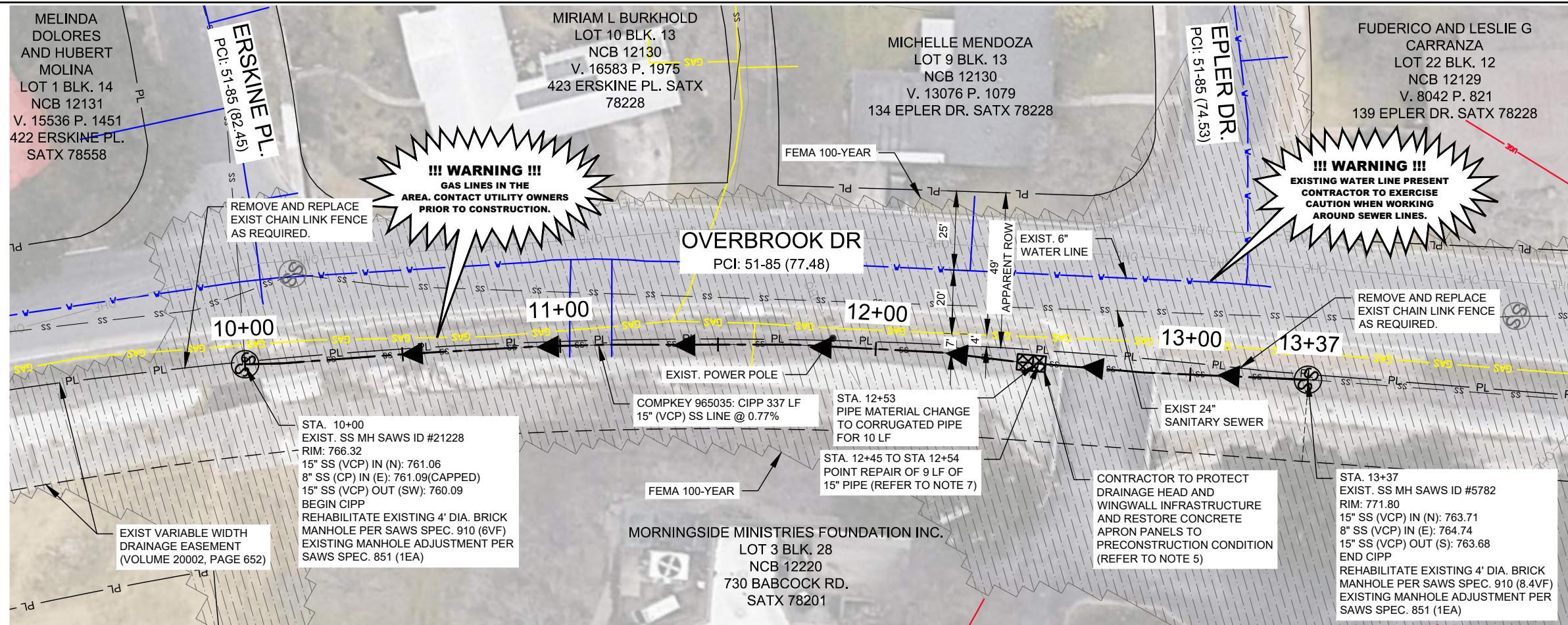
2021 CMOM PKG 7
SITE 2 CMPKY 3466470
STA 10+00 - 10+98 CIPP
RHB & PNT RPR

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
APPROVED _____

MAP No. 000-000 SHEET **011**
SECT. No. _____
DR:UOP CK:MML JOB No. 22-4516 OF 145

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Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:19 AM



LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

PROP. 15" SANITARY SEWER POINT REPAIR AND CIPP REHABILITATION SEGMENT (965035) - 337 LF

1
017

SCALE 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
103.4	Remove Miscellaneous Concrete (COSA Spec)	SF	170
413.2	Flowable Fill (High Strength)	CY	3
500	Concrete Curb and Gutter (COSA Spec)	LF	2
502	Concrete Sidewalk (COSA Spec)	SY	5
505.1	Concrete Riprap (COSA Spec)	SY	19
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 4	LS	1
851	Manhole Adjustment	EA	2
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 4	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	337
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 15" (All Depths)	LF	337
910	Rehabilitation of Existing 4' Dia. Manhole	VF	14
1103	Point Repair (0'-9") (all depths)	EA	1
SS 2010	Removal and Replacement of Fencing (Chain Link)	LF	50

NOTES:

1. A COSA FLOODPLAIN DEVELOPMENT PERMIT (FPDP) IS REQUIRED AT THIS SITE. SAWS TO OBTAIN FPDP.
2. CONTRACTOR TO FOLLOW THE GENERAL CONDITIONS OF THE NATIONWIDE PERMIT 58, NO NOTIFICATION REQUIRED TO THE U.S. ARMY CORPS OF ENGINEERS.
3. CONTRACTOR TO COORDINATE WITH MORNINGSIDE STAFF FOR TRAFFIC PLAN AT ENTRANCE.
4. CONTRACTOR TO COORDINATE WITH COSA SANITATION DEPARTMENT FOR TRASH SERVICE DURING CONSTRUCTION.
5. CONTRACTOR TO PROTECT DRAINAGE HEAD AND WINGWALL INFRASTRUCTURE AND RESTORE CONCRETE RIPRAP PANELS TO PRECONSTRUCTION CONDITION. INCLUDING REPLACEMENT OF ALL REBAR AS ENCOUNTERED. REFER TO COSA SWE NOTES ON SHEET 5.
6. WARNING: ACTIVE GOOGLE FIBER FOC IS IN PLACE IN SHALLOW TRENCHES AT THE LIP OF THE GUTTER IN MICROTRENCH ALONG THE SOUTHWEST SIDE OF OVERBROOK DR. CALL FOR LOCATES AS REQUIRED. CONTRACTORS TAKE EXTRA CAUTION WHEN WORKING IN THE AREA. TUNNEL UNDER CURB AND GFIBER AS REQUIRED TO AVOID DAMAGE. DO NOT ENTER VAULTS OR HANDLE ACTIVE FIBER CABLES. CONTACT THE GFIBER NOC BEFORE HANDLING ACTIVE FIBER CABLES, OR IN THE CASE OF DAMAGE TO THE GFIBER SYSTEM. GFIBER-NOC@GOOGLE.COM | 866-954-1572
7. CONTRACTOR TO SUBMIT PRE-CONSTRUCTION CCTV OF MAIN WITH BYPASS IN PLACE TO DETERMINE IF A POINT REPAIR AT STA. 12+45 IS NEEDED.
8. THE 100-YEAR FLOOD PLAIN ELEVATION IS 772.00 FEET.

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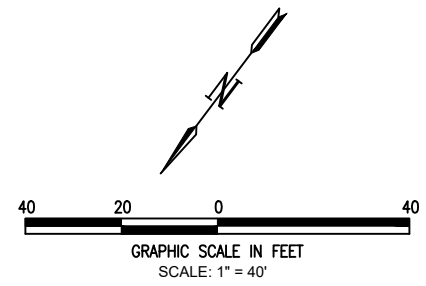
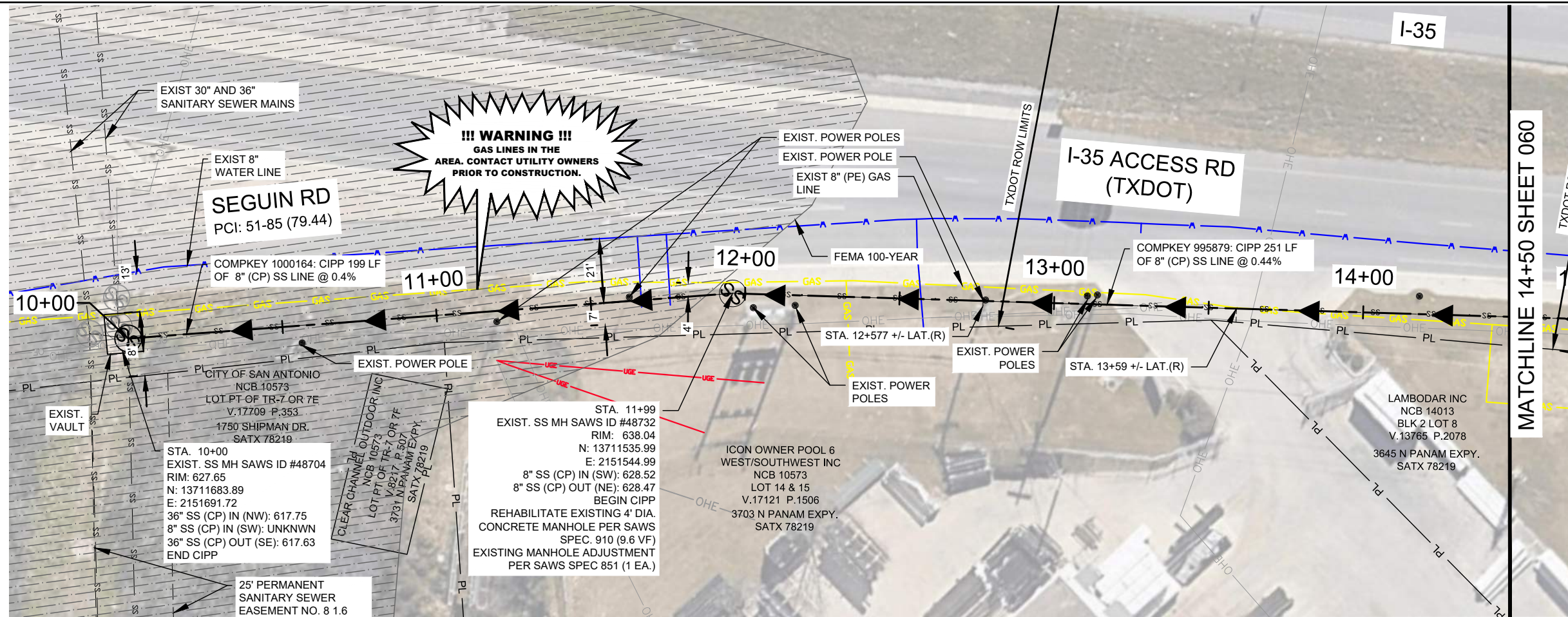
REVISIONS
 2021 CMOM PKG 7
SITE 4 CMPKY 965035 STA 10+00 - 13+37 CIPP RHB & PNT RPR

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET **017**
 SECT. No. _____
 DR:UOP CK:MML JOB No. 22-4516 OF 145





LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

PROP. 8" SANITARY SEWER CIPP REHABILITATION SEGMENTS (995879, 1000164) - 450 LF

1
059

SCALE: 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 16	LS	1
851	Manhole Adjustment	EA	1
864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 16	LS	1
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 16	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	450
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	450
910	Rehabilitation of Existing 4' Dia. Manhole	VF	10
1109	Service Reconnections - Remote Cutting Connection	EA	2
SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	2

NOTES:

1. A COSA FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED FOR WORK AT THIS SITE.
2. A TXDOT ROW PERMIT IS REQUIRED FOR WORK AT THIS SITE.
3. ALL WORK IS TO BE COMPLETED WITHIN THE ESTABLISHED SEWER EASEMENT AND ANY AREA DAMAGED OUTSIDE THE EASEMENT WILL BE RESTORED TO PRIOR CONDITIONS AT THE CONTRACTOR'S EXPENSE.
4. THE 100-YEAR FLOODPLAIN ELEVATION IS 638.00 FEET.

SERVICE LATERALS

COMPKEY 995879
 STA. 12+77 (R)
 STA. 13+59 (R)

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



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No.	Revision	Drawn	Approved	Date

REVISIONS

2021 CMOM PKG 7

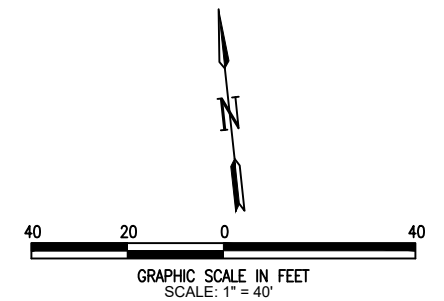
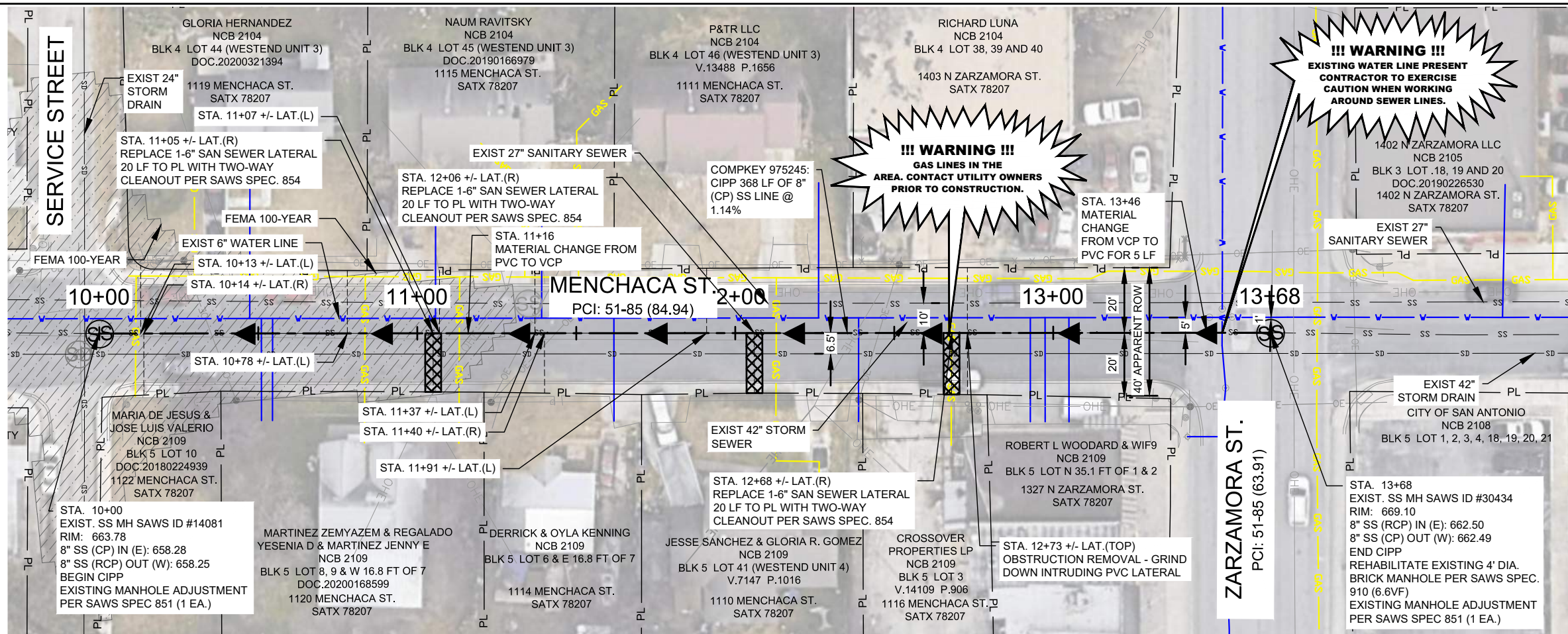
SITE 16 CMPKY 995879, 1000164 STA 10+00 - 14+50 CIPP RHB

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET **059**
 SECT. No. _____
 DR:UOP CK:MML JOB No. 22-4516 OF 145

File: I:\2021\12\107110 - saws 2021 cmom pkg 7\Drawings\SAWS 05-C315.dwg
 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:21 AM



LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

SEE SHEET 004 FOR FULL LEGEND

PROP. 8" SANITARY SEWER CIPP REHABILITATION SEGMENT (975245) - 368 LF

1
063
SCALE 1" = 40'

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	4
203	Tack Coat (COSA Spec)	GAL	2
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	20
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	20
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 17	LS	1
851	Manhole Adjustment	EA	2
854	Sanitary Sewer Lateral	LF	60
854	Two-way Sanitary Sewer Clean-Out	EA	3
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 17	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	368
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	368
910	Rehabilitation of Existing 4' Dia. Manhole	VF	7
1103	Obstruction Removal - Remote Device	EA	1
1109	Service Reconnections - Remote Cutting Connection	EA	11
SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	2

NOTES:

- THIS SITE REQUIRES A COSA FLOODPLAIN DEVELOPMENT PERMIT.
- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4.
- ZARZAMORA PEDESTRIAN IMPROVEMENTS PROJECT (SW MILITARY TO FRED) IS SCHEDULED TO BE UNDER CONSTRUCTION FROM (OCT 2023 - AUG 2024). CONTRACTOR TO COORDINATE WITH COSA ABOUT WHEN ROW PERMIT FOR THIS SITE CAN BE ISSUED.
- THE 100-YEAR FLOOD PLAIN ELEVATION IS 664.00 FEET.

SERVICE LATERALS

COMPKEY 975245
 STA. 10+13 (L)
 STA. 10+14 (R)
 STA. 10+78 (L)
 STA. 11+05 (R) DEFECTIVE
 STA. 11+07 (L)
 STA. 11+37 (L)
 STA. 11+40 (R)
 STA. 11+42 (L) CAPPED
 STA. 11+75 (R) CAPPED
 STA. 11+78 (L) CAPPED
 STA. 11+91 (L)
 STA. 12+06 (R) DEFECTIVE
 STA. 12+08 (L) CAPPED
 STA. 12+41 (R) CAPPED
 STA. 12+44 (L) CAPPED
 STA. 12+68 (R) BREAK-IN
 STA. 12+73 (TOP) BREAK-IN
 STA. 12+74 (R) CAPPED
 STA. 12+77 (L) CAPPED
 STA. 13+05 (R) CAPPED
 STA. 13+07 (L) CAPPED

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



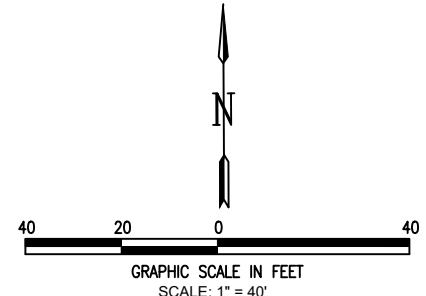
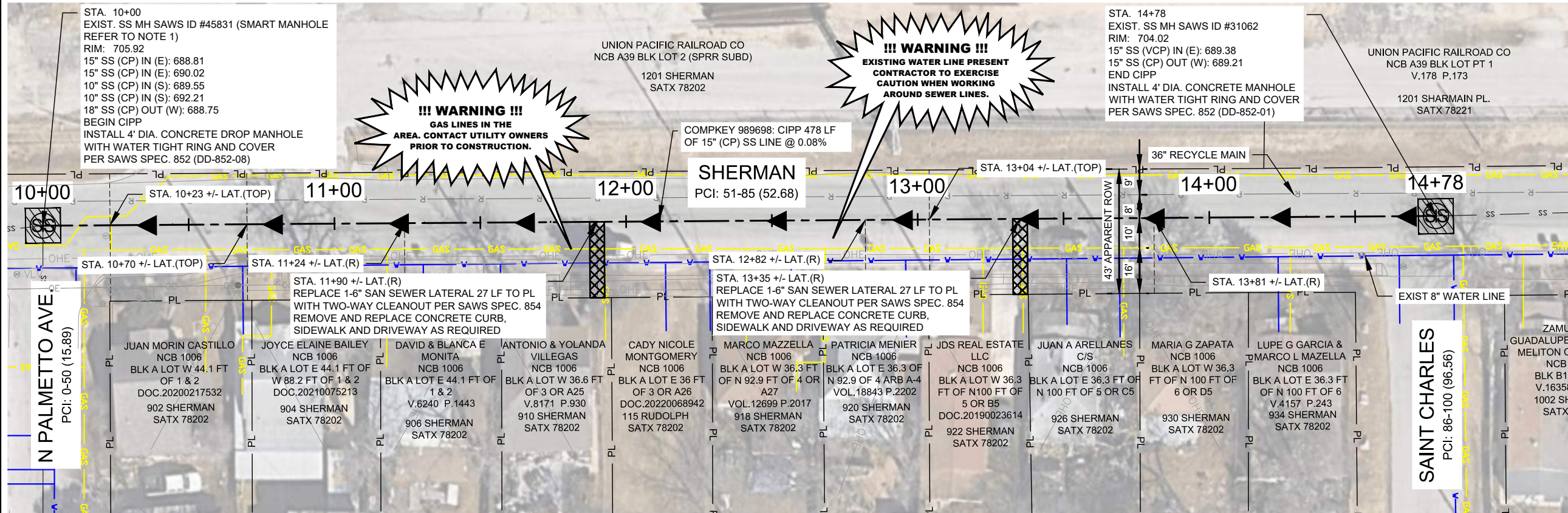
GARVER Registration No. F-5713
 13750 San Pedro Avenue
 Suite 350
 San Antonio, TX 78232
 (210) 447-6250

▲	Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved	Date

REVISIONS
 2021 CMOM PKG 7
SITE 17 CMPKY 975245
STA 10+00 - 13+68 CIPP
RHB

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____
 MAP No. 000-000 SHEET **063**
 SECT. No. _____
 DR:UOP CK:MML JOB No. 22-4516 OF 145



LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

PROP. 15" SANITARY SEWER CIPP REHABILITATION SEGMENT (989698) - 478 LF

1
079

SCALE: 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	3
203	Tack Coat (COSA Spec)	GAL	2
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	15
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	15
500	Concrete Curb and Gutter (COSA Spec)	LF	6
502	Concrete Sidewalk (COSA Spec)	SY	4
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 22	LS	1
852	Sanitary Sewer Manhole 4' Dia. (0'-6')	EA	2
852	Extra Depth Manhole (>6')	VF	32
854	Sanitary Sewer Lateral	LF	54
854	Two-way Sanitary Sewer Clean-Out	EA	2
860	Vertical Stacks	VF	30
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 22	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	478
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	478
1109	Service Reconnections - Remote Cutting Connection	EA	8

NOTES:

1. SMART MANHOLE COVERS - REFER TO SEWER NOTE #28 ON GENERAL NOTES SHEET (2 OF 3)
2. CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED BY EXCAVATION DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).

SERVICE LATERALS

COMPKEY 989698
 STA. 10+23 (TOP)
 STA. 10+27 (L) CAPPED
 STA. 10+70 (TOP)
 STA. 10+71 (R) CAPPED
 STA. 11+24 (R)
 STA. 11+29 (L) CAPPED
 STA. 11+90 (R) DEFECTIVE
 STA. 12+20 (R) CAPPED
 STA. 12+30 (L) CAPPED
 STA. 12+51 (TOP) CAPPED
 STA. 12+82 (R)
 STA. 12+86 (R) CAPPED
 STA. 13+04 (TOP)
 STA. 13+10 (L) CAPPED
 STA. 13+35 (R) DEFECTIVE
 STA. 13+81 (R)
 STA. 13+88 (L) CAPPED

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



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ADDENDUM #2	AJD	MML	10/23
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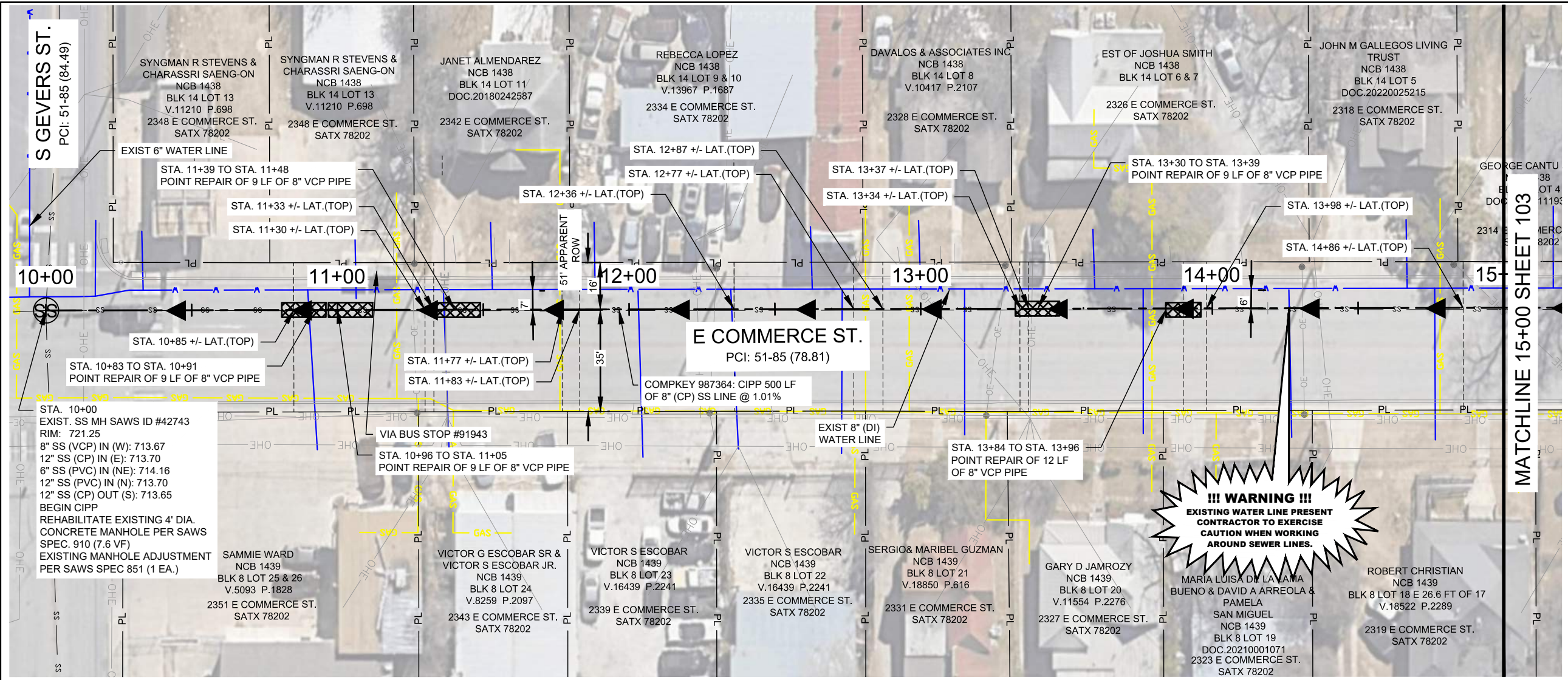
REVISIONS

No.	Revision	Drawn	Approved	Date
2021 CMOM PKG 7				
SITE 22 CMPKY 989698 STA 10+00 - 14+78 CIPP RHB				

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET 079
 SECT. No. _____
 DR: UOP CK: MML JOB No. 22-4516 OF 145



40 20 0 40
GRAPHIC SCALE IN FEET
SCALE: 1" = 40'

LEGEND

- PROPOSED LINE & SANITARY SEWER FLOW
- PROPOSED BYPASS LINE
- EXISTING SANITARY SEWER
- WATERLINE
- GAS LINE
- UNDERGROUND ELECTRICAL LINE
- OVERHEAD ELECTRICAL LINE
- OVERHEAD TELEPHONE LINE
- PROPERTY/ROW LINE
- PAVEMENT REPLACEMENT
- POINT REPAIR LIMITS
- 100-YEAR FLOODPLAIN
- OBSTRUCTION REMOVAL
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE

SEE SHEET 004 FOR FULL LEGEND

PROP. POINT REPAIR AND 8" SANITARY SEWER CIPP REHABILITATION SEGMENT (987364) - 500 LF

1
102

SCALE: 1" = 40'

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	3
203	Tack Coat (COSA Spec)	GAL	2
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	12
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	16
413.2	Flowable Fill (High Strength)	CY	6
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 28	LS	1
851	Manhole Adjustment	EA	1
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 28	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	500
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	500
910	Rehabilitation of Existing 4' Dia. Manhole	VF	8
1103	Point Repair (0'-9") (all depths)	EA	5
1109	Service Reconnections - Remote Cutting Connection	EA	13
SS 6001	Portable Changeable Message Sign (TxDOT Spec)	EA	2

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4
- CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).

SERVICE LATERALS

COMPKEY 987364
 STA. 10+82 (L) CAPPED
 STA. 10+85 (TOP)
 STA. 11+28 (R) CAPPED
 STA. 11+30 (TOP)
 STA. 11+33 (TOP)
 STA. 11+77 (TOP)
 STA. 11+83 (TOP)
 STA. 12+36 (TOP)
 STA. 12+77 (TOP)
 STA. 12+87 (TOP)
 STA. 13+34 (TOP)
 STA. 13+37 (TOP)
 STA. 13+90 (TOP)
 STA. 13+98 (TOP)
 STA. 14+86 (TOP)

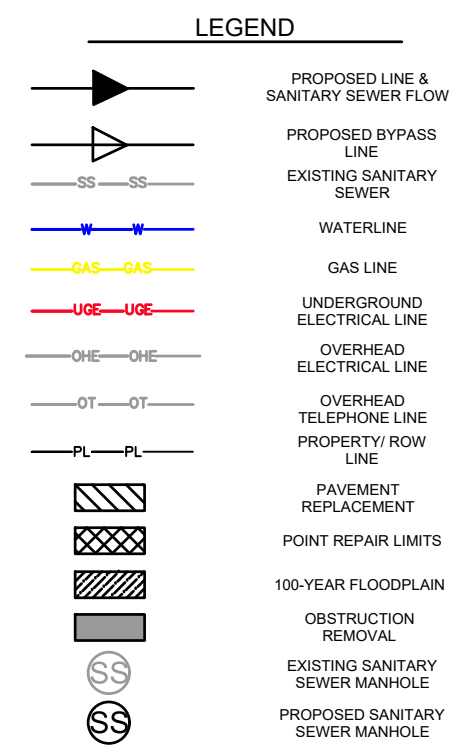
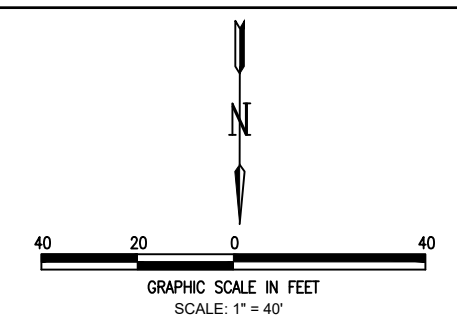
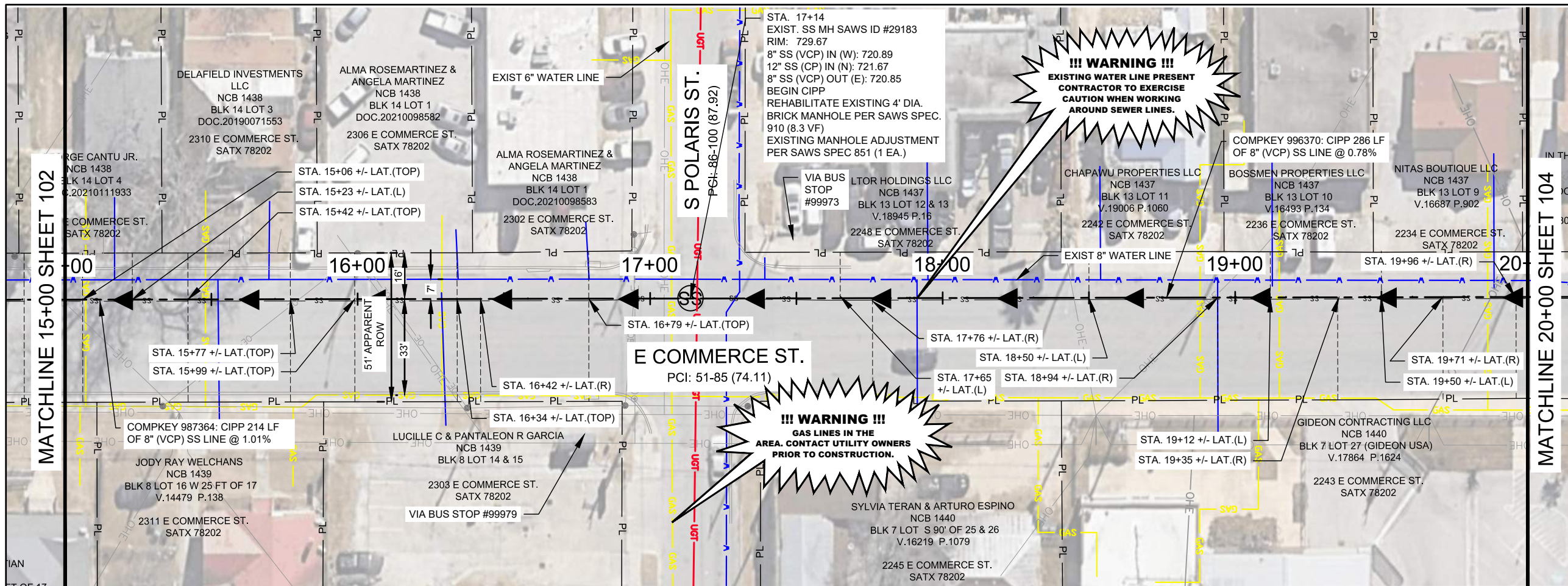
NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



Registration No. F-5713
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Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved Date
REVISIONS			
2021 CMOM PKG 7			
SITE 28 CMPKY 987364 STA10+00 - 15+00 CIPP RHB & PNT RPR			
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM		CONT. BUDGET PROJ. 00-00-00	
SUBMITTED _____			
APPROVED _____			
MAP No. 000-000	SHEET		102
SECT. No.	DR:UOP		CK:MML
JOB No. 22-4516		OF 145	

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 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:37 AM



PROP. 8" SANITARY SEWER CIPP REHABILITATION SEGMENTS (987364, 996370) - 500 LF

1
103

SCALE: 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
851	Manhole Adjustment	EA	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	500
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	500
910	Rehabilitation of Existing 4' Dia. Manhole	VF	9
1109	Service Reconnections - Remote Cutting Connection	EA	17

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4.
- CONTRACTOR TO VERIFY AT&T INFRASTRUCTURE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).

SERVICE LATERALS

COMPKEY 987364	COMPKEY 996370
STA. 15+06 (TOP)	STA. 17+65 (L)
STA. 15+23 (L)	STA. 17+76 (R)
STA. 15+42 (TOP)	STA. 18+50 (L)
STA. 15+77 (TOP)	STA. 18+66 (R) CAPPED
STA. 15+99 (TOP)	STA. 18+94 (R)
STA. 16+34 (TOP)	STA. 19+12 (L)
STA. 16+39 (TOP) CAPPED	STA. 19+35 (R)
STA. 16+42 (R)	STA. 19+50 (L)
STA. 16+79 (TOP)	STA. 19+69 (L) CAPPED
	STA. 19+71 (R)
	STA. 19+96 (R)

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



GARVER Registration No. F-5713
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 Suite 350
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 (210) 447-6250

No.	Revision	Drawn	Approved	Date
1	Addendum #2	AJD	MML	10/23

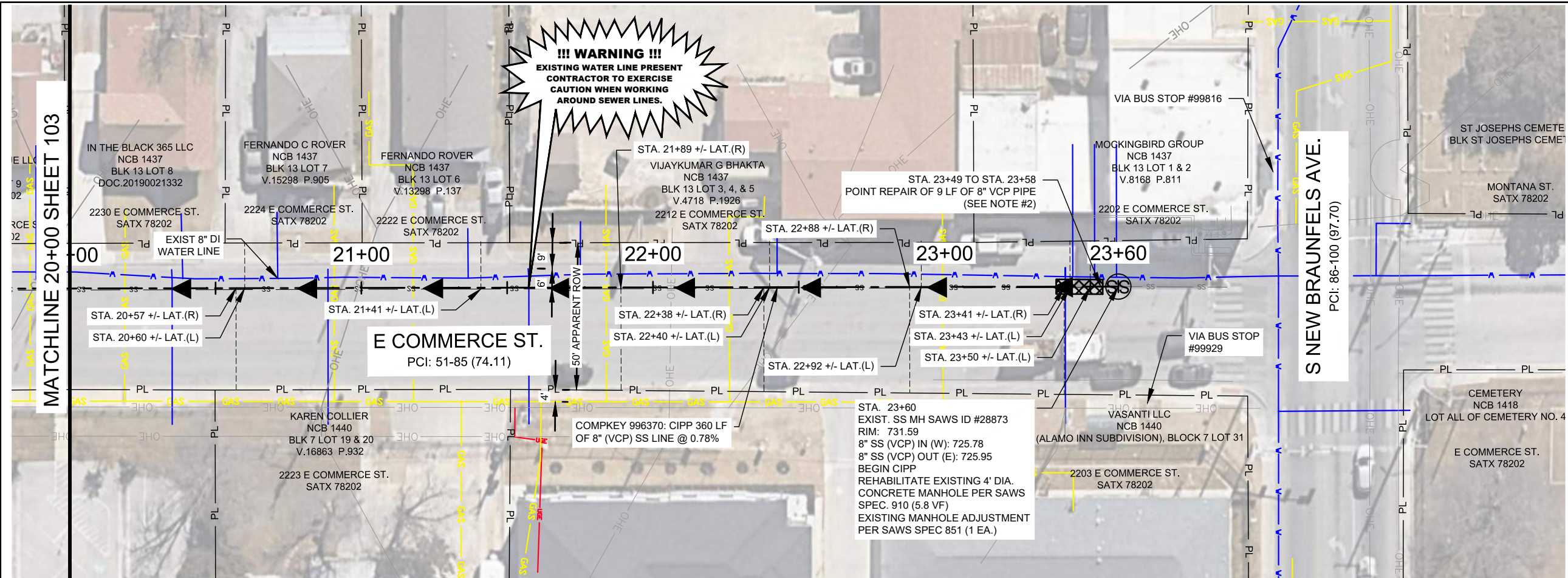
2021 CMOM PKG 7
SITE 28 CMPKY 987364, 996370 STA 15+00 - 20+00 CIPP RHB

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET 103
 SECT. No. _____
 DR:UOP CK:MML JOB No. 22-4516 OF 145

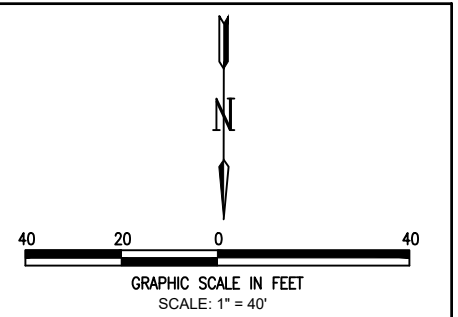
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 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:38 AM



PROP. POINT REPAIR AND 8" SANITARY SEWER CIPP REHABILITATION SEGMENT (996370) - 360 LF

1
104

SCALE: 1" = 40'



LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	1
203	Tack Coat (COSA Spec)	GAL	1
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	3
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	5
851	Manhole Adjustment	EA	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	360
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 8" (All Depths)	LF	360
910	Rehabilitation of Existing 4' Dia. Manhole	VF	6
1103	Point Repair (0'-9") (all depths)	EA	1
1109	Service Reconnections - Remote Cutting Connection	EA	11

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES. REFER TO VIA NOTES ON SHEET 4.
- CONTRACTOR SHALL PERFORM SEWER POINT REPAIR AND RELOCATE PENETRATING WATER LATERAL AT STA. 23+52, 2 FEET ABOVE THE SEWER MAIN AND SHALL ENCASE THE SEWER MAIN IN CEMENT STABILIZED SAND PER TCEO REQUIREMENTS.
- CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS GENERATED FROM BELOW A DEPTH OF 10 FEET DEEP AND SOILS EXCAVATED DOWN TO 5 FEET BELOW REMOVED PAVEMENTS ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).

SERVICE LATERALS

- COMPKEY 996370
 STA. 20+57 (R)
 STA. 20+60 (L)
 STA. 21+23 (L) CAPPED
 STA. 21+26 (R) CAPPED
 STA. 21+41 (L)
 STA. 21+87 (L) CAPPED
 STA. 21+89 (R)
 STA. 22+38 (R)
 STA. 22+40 (L)
 STA. 22+88 (R)
 STA. 22+92 (L)
 STA. 23+41 (R)
 STA. 23+43 (L)
 STA. 23+50 (L)

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



GARVER Registration No. F-5713
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 San Antonio, TX 78232
 (210) 447-6250

▲	Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved	Date

2021 CMOM PKG 7
SITE 28 CMPKY
987364.996370 STA 20+00
- 23+60 CIPP RHB & PNT RPR

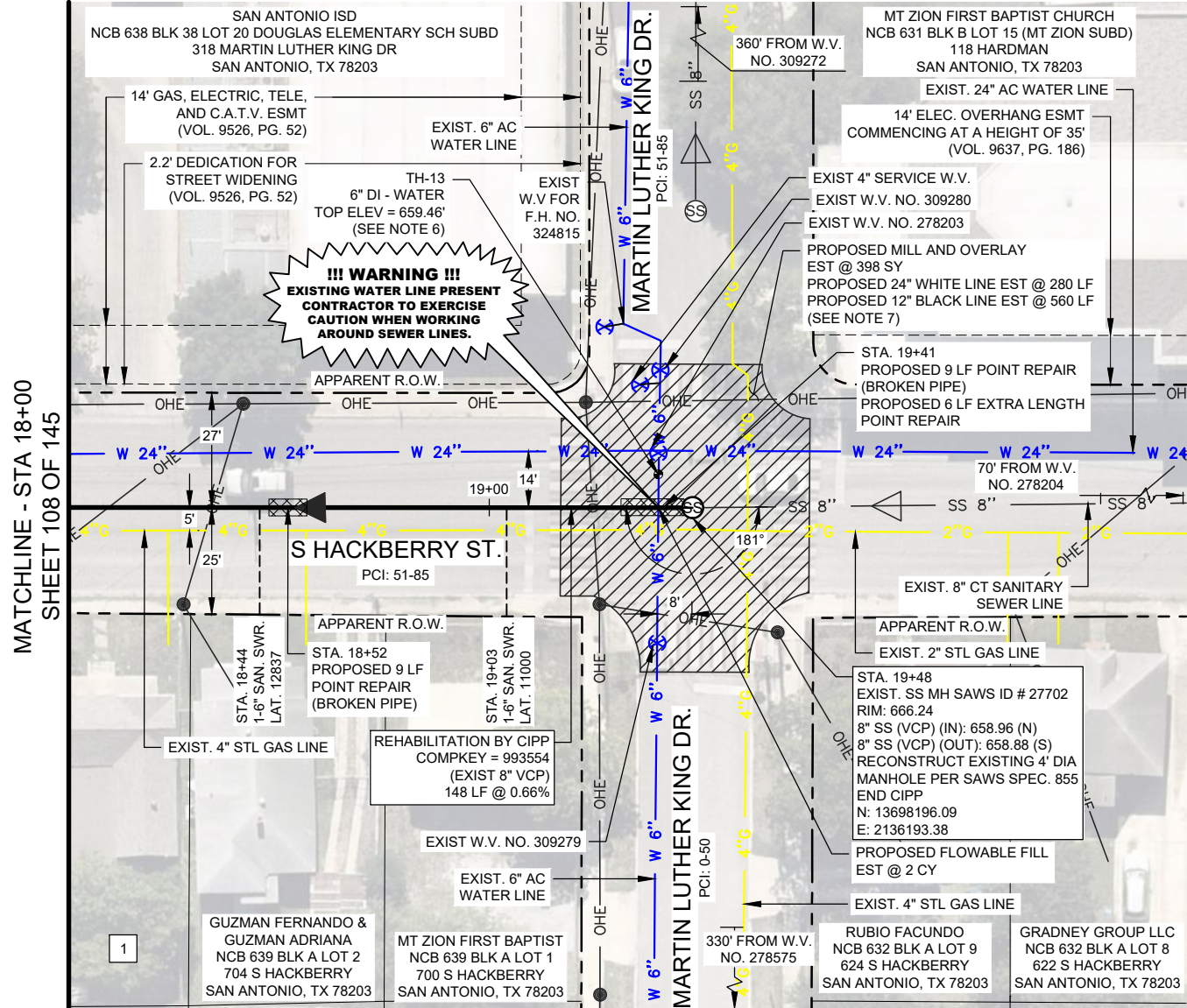
DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET
 SECT. No. 104
 DR:UOP CK:MML JOB No. 22-4516 OF 145

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File: M:\222085 SAWS - 2021 CMOM Pkg 7 (Garver)\07.00 CADD\Civil\Site 29 - CK - 986518 & 993554 - Hackberry S\Site 29 - CK - 986518 & 993554 - Hackberry S.dwg Last saved by: Amartinez
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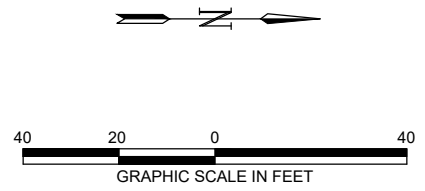


NOTES

- CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, GRADES AND SERVICE LATERALS BEFORE START OF CONSTRUCTION. (N.S.P.I.)
- CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES DURING RECONSTRUCTION OF SANITARY SEWER LINES (POINT REPAIR) AND MANHOLES.
- CONTRACTOR TO COORDINATE WITH COSA'S SANITATION DEPARTMENT A MINIMUM OF SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF WORK FOR TRASH PICKUP. CONTRACTOR TO ENSURE TRASH SERVICE IS MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO SAWS SPECIFICATION ITEMS NO. 3000 HANDLING ASBESTOS CEMENT PIPE REQUIREMENTS WHEN EXPOSING THE EXISTING 6-INCH (AC) WATER MAIN. THE INTENT IS NOT TO REMOVE ANY PIPE; HOWEVER, QUANTITY IS REFLECTIVE OF REMOVAL IF NECESSARY.
- CONTRACTOR SHALL COORDINATE WITH FREDERICK DOUGLAS ELEMENTARY SCHOOL PRIOR TO MOBILIZING AND PERFORMING ANY CONSTRUCTION ACTIVITIES TO MINIMIZE IMPACTS TO BUS, VEHICULAR, AND PEDESTRIAN TRAFFIC. CONTRACTOR SHALL REFER TO CONTRACT DOCUMENTS FOR SCHOOL CONTACT INFORMATION.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES AND NOTIFY ENGINEER AND SAWS IF THERE ARE ANY CONFLICTS BETWEEN EXISTING 6-INCH (DI) WATER MAIN AND EXISTING 8-INCH (VCP) SANITARY SEWER MAIN.
- CONTRACTOR SHALL REFERENCE COSA STANDARD DETAIL RAISED PAVEMENT MARKER FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).

ARCHEOLOGICAL NOTES

- THE CONSTRUCTION CONTRACTOR WILL NOTIFY SAWS A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR RABA KISTNER TO BE PRESENT DURING EXCAVATION ACTIVITIES FOR SITE 29.
- RABA KISTNER WILL BE PRESENT AT SITE 29 TO MONITOR ALL GROUND DISTURBING CONSTRUCTION ACTIVITIES WITHIN S. HACKBERRY ST.
- THE MONITORING ARCHEOLOGIST WILL HAVE STOP WORK AUTHORITY TO HALT AND REDIRECT GROUND DISTURBING ACTIVITIES LONG ENOUGH TO INVESTIGATE AND FULLY DOCUMENT ANY ARCHEOLOGICAL MATERIALS IDENTIFIED DURING CONSTRUCTION.
- IF ARCHEOLOGICAL MATERIALS ARE IDENTIFIED DURING CONSTRUCTION, ALL GROUND DISTURBING ACTIVITIES WILL HALT IN THE AREA UNTIL A MINIMUM BUFFER OF 50 FEET AROUND THE DISCOVERY IS ESTABLISHED BY THE MONITORING ARCHEOLOGISTS.
- IN THE EVENT THAT HUMAN REMAINS OR BURIAL SHAFTS ARE FOUND DURING CONSTRUCTION, FIELDWORK WITHIN 50 FEET OF THAT LOCATION WILL CEASE IMMEDIATELY. HALFF WILL NOTIFY THE BEXAR COUNTY SHERIFF'S OFFICE, TEXAS HISTORICAL COMMISSION AND SAN ANTONIO OFFICE OF HISTORIC PRESERVATION. IF THE SHERIFF AND/OR COUNTY CORONER DETERMINE THAT THE HUMAN REMAINS REPRESENT A CRIME SCENE, THEN THEY WILL ASSUME CONTROL OF THE DISCOVERY. IF THE HUMAN SKELETAL REMAINS APPEAR TO BE FROM AN UNREGISTERED GRAVE THAT DOES NOT REPRESENT A CRIME SCENE, THEN THE COUNTY CORNER SHALL NOTIFY THE TEXAS HISTORICAL COMMISSION WITHIN 24 HOURS.



LEGEND

- PROPOSED LINE & SANITARY SEWER FLOW
 - EXISTING SANITARY SEWER FLOW
 - EXISTING SANITARY SEWER
 - WATERLINE
 - GAS LINE
 - UNDERGROUND ELECTRICAL LINE
 - OVERHEAD ELECTRICAL LINE
 - OVERHEAD TELEPHONE LINE
 - PAVEMENT REPLACEMENT
 - POINT REPAIR LIMITS
 - FEMA FLOODPLAIN
 - OBSTRUCTION REMOVAL
 - EXISTING SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER CLEANOUT
- SEE PLAN SHEET 004 FOR FULL LEGEND

PROP. 8" Ø SANITARY SEWER POINT REPAIR & CIPP REHABILITATION SEGMENT (993554) - 148 LF

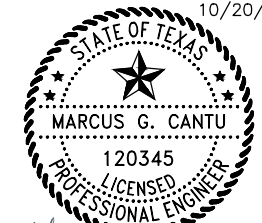
1
109

SCALE: 1" = 40'

ESTIMATED QUANTITIES

SPEC	DESCRIPTION	UNIT	VALUE
203	TACK COAT (COSA SPEC)	GAL	40
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP. DEPTH) (COSA SPEC)	SY	13
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (3" COMP. DEPTH) (COSA SPEC)	SY	403
208	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	403
413.2	FLOWABLE FILL (HIGH STRENGTH) (COSA SPEC)	CY	2
535.7	24-INCH WIDE WHITE LINE (COSA SPEC)	LF	280
536.2	12-INCH WIDE BLACK LINE (CONTRAST) (COSA SPEC)	LF	560
855	RECONSTRUCTION OF EXISTING 4" DIA. MANHOLE	EA	1
866	SEWER MAIN TELEVISION INSPECTION (PRE-CONSTRUCTION) (8"-15" DIA)	LF	148
901	REHABILITATION OF SANITARY SEWER BY CURED-IN-PLACE PIPE (HOT WATER) - 8" (ALL DEPTHS)	LF	148
1103	POINT REPAIR (0' - 9') (ALL DEPTHS)	EA	2
1103	POINT REPAIR, ADDITIONAL LENGTH > 9' (ALL DEPTHS)	LF	6
1109	SERVICE RECONNECTION - REMOTE CUTTING CONNECTION	EA	2
1020	WATER MAIN BREAK/LEAK REPAIRS (6"-16" DIA), ALL TYPES	EA	1

1 ROJAS ANTHONY JOE
NCB 639 BLK A LOT 3
706 S HACKBERRY
SAN ANTONIO, TX 78203



10/20/2023

GARVER
 Registration No. F-5713
 13750 San Pedro Avenue
 Suite 350
 San Antonio, TX 78232
 (210) 447-6250

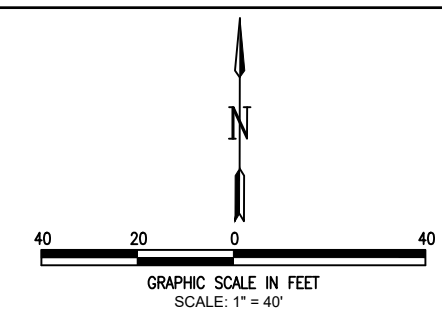
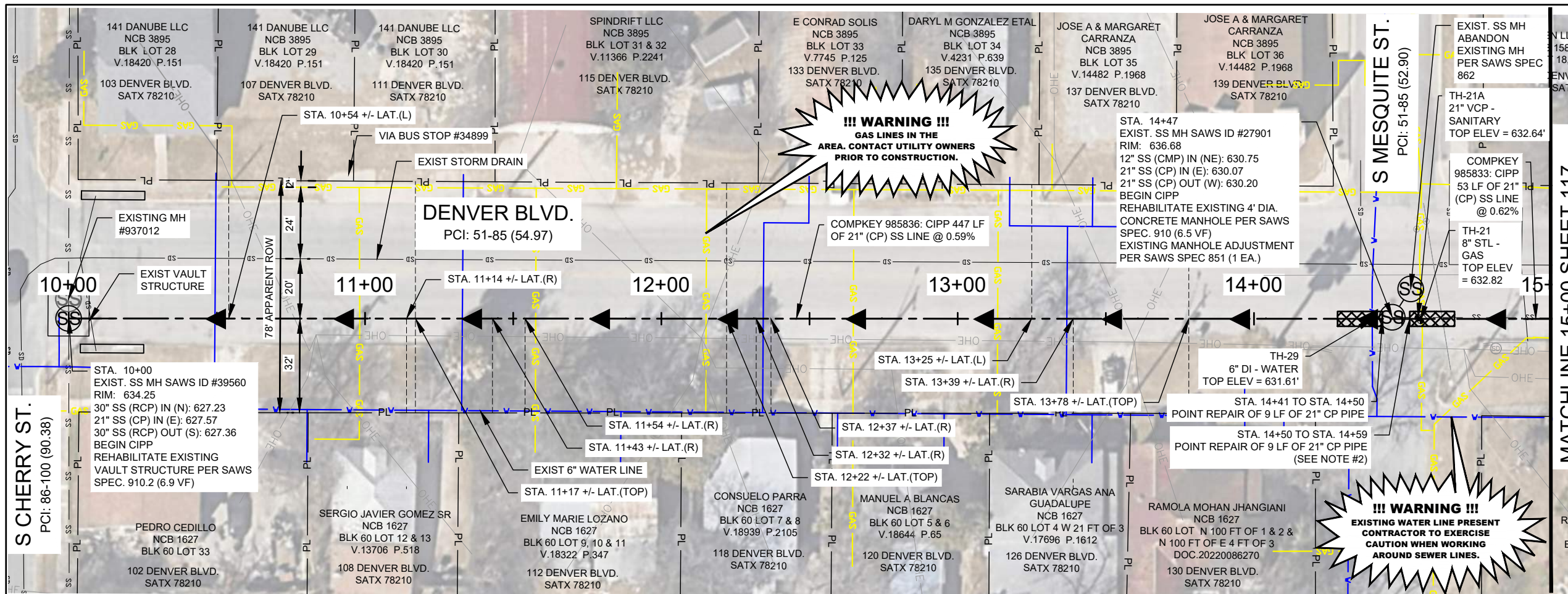
MENDEZ ENGINEERING
 Registration # F-14070
 12950 Country Parkway, Suite 120
 San Antonio, Texas 78216
 Office: 210-802-0808
 www.MendezEngineering.com

▲	Addendum #1	AM	MGC	10/23
No.	Revision	Drawn	Approved	Date

2021 CMOM PKG 7
 SITE 29
 COMPKEY 993554
 STA. 18+00 - 19+48
 CIPP REHAB

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____
 MAP No. 166-574 SHEET 109
 SECT. No. _____ OF 145
 DR. SV,NMCK. MGC JOB No. 22-4516



LEGEND

	PROPOSED LINE & SANITARY SEWER FLOW
	PROPOSED BYPASS LINE
	EXISTING SANITARY SEWER
	WATERLINE
	GAS LINE
	UNDERGROUND ELECTRICAL LINE
	OVERHEAD ELECTRICAL LINE
	OVERHEAD TELEPHONE LINE
	PROPERTY/ROW LINE
	PAVEMENT REPLACEMENT
	POINT REPAIR LIMITS
	100-YEAR FLOODPLAIN
	OBSTRUCTION REMOVAL
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

PROP. POINT REPAIR AND 21" SANITARY SEWER CIPP REHABILITATION SEGMENTS (985836, 985833) - 500 LF



SCALE: 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
202	Prime Coat (COSA Spec)	GAL	2
203	Tack Coat (COSA Spec)	GAL	1
205.2	Hot Mix Asphaltic Pavement, Type B (10" Comp. Depth) (COSA Spec)	SY	6
205.4	Hot Mix Asphaltic Pavement, Type D (2" Comp. Depth) (COSA Spec)	SY	6
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 33	LS	1
851	Manhole Adjustment	EA	1
862	Abandonment of Sanitary Sewer Manholes	EA	1
864	Bypass Pumping Large Diameter Sanitary Sewer Mains, (>24") Site 33	LS	1
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 33	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (18"-24" Dia.)	LF	500
910	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 21" (All Depths)	LF	500
901	Rehabilitation of Existing 4' Dia. Manhole	VF	7
910.2	Sewer Structure Rehabilitation (Non-Circular Manholes, and Manholes > 4' Dia.)	VF	7
1103	Point Repair (0'-9") (all depths)	EA	2
1109	Service Reconnections - Remote Cutting Connection	EA	11

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES
- CONTRACTOR TO COORDINATE WITH CPS ENERGY FOR RELOCATION OF GAS MAIN PENETRATION OF MAIN AT STA. 14+52

SERVICE LATERALS

COMPKEY 985836
 STA. 10+54 (L)
 STA. 11+14 (R)
 STA. 11+17 (TOP)
 STA. 11+43 (R)
 STA. 11+54 (R)
 STA. 12+22 (TOP)
 STA. 12+32 (R)
 STA. 12+37 (R)
 STA. 13+25 (L)
 STA. 13+39 (R)
 STA. 13+78 (TOP)

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL FOR LOCATIONS ARE PROVIDED INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



10/20/2023

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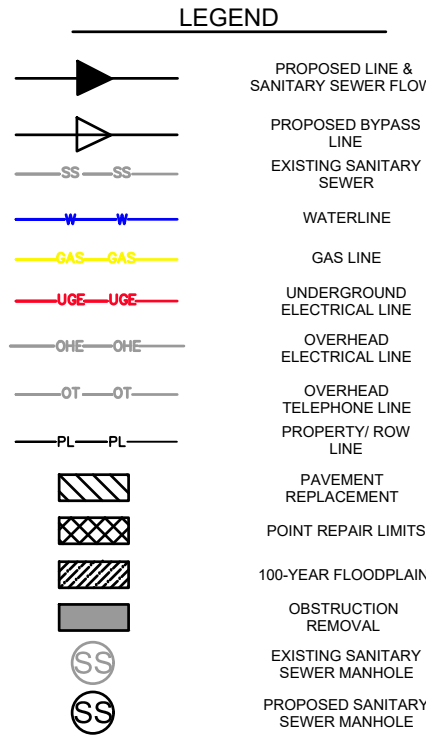
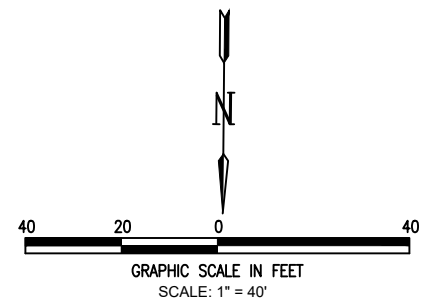
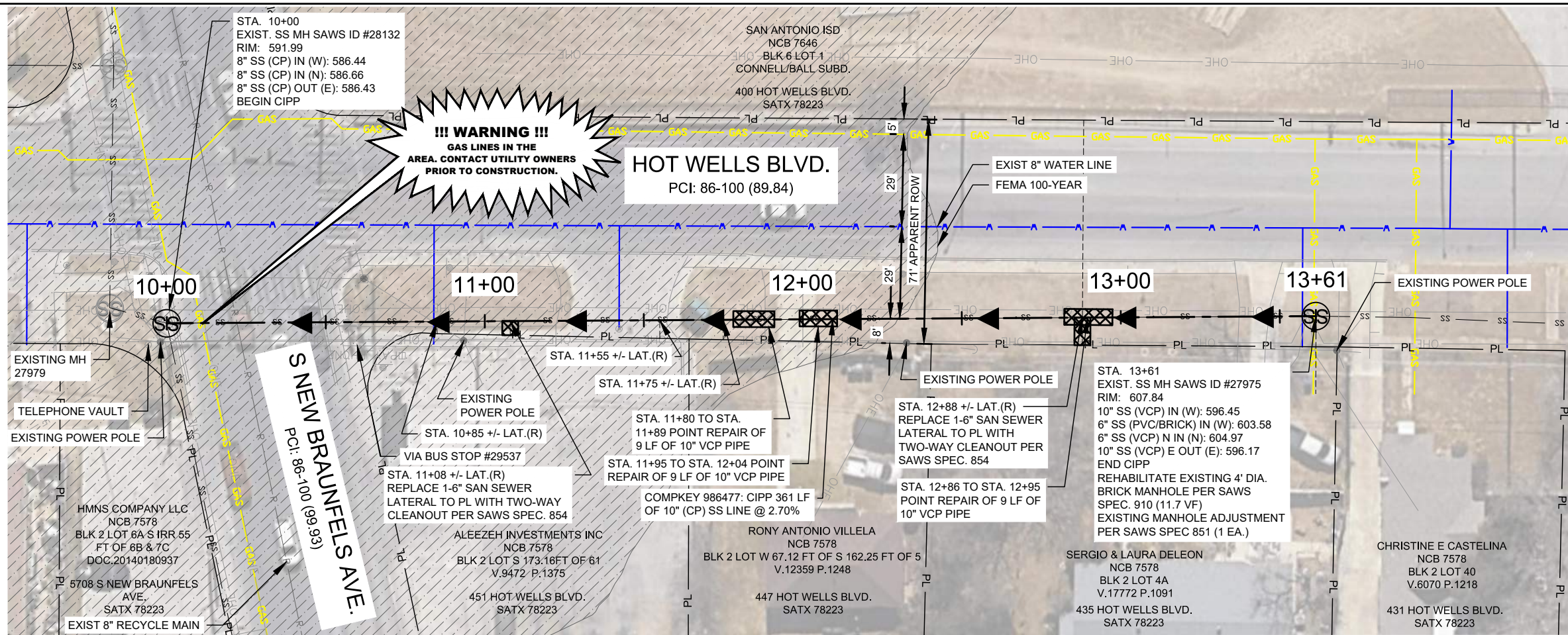
▲	Addendum #2	AJD	MML	10/23
No.	Revision	Drawn	Approved	Date

REVISIONS
 2021 CMOM PKG 7
SITE 33 CMPKY 987364, 996370 STA 10+00 - 15+00 CIPP RHB

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED	
APPROVED	
MAP No. 000-000	SHEET 116
SECT. No.	
DR:UOP CK:MML JOB No. 22-4516	OF 145

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 Last plotted by: De La Cruz, Ashton J. Plot Date: 10/20/2023 11:39 AM



PROP. POINT REPAIR AND 10" SANITARY SEWER REPAIR AND CIPP REHABILITATION SEGMENT (986477) - 361 LF

1
123

SCALE: 1" = 40'

SEE SHEET 004 FOR FULL LEGEND

ESTIMATED QUANTITIES

Spec	Description	Unit	Value
500	Concrete Curb and Gutter (COSA Spec)	LF	6
502	Concrete Sidewalk (COSA Spec)	SY	5
503.1	Portland Cement Concrete Driveway (COSA Spec)	SY	4
530.7	Barricades, Signs, And Traffic Handling, (COSA Spec) Site 36	LS	1
851	Manhole Adjustment	EA	1
854	Sanitary Sewer Lateral	LF	73
854	Two-way Sanitary Sewer Clean-Out	EA	2
865	Bypass Pumping Small Diameter Sanitary Sewer, (<24") Site 36	LS	1
866	Sewer Main Television Inspection (Pre-Construction) (8"-15" Dia.)	LF	361
901	Rehabilitation of Sanitary Sewer by Cured-In-Place Pipe (Hot Water) - 10" (All Depths)	LF	361
910	Rehabilitation of Existing 4" Dia. Manhole	VF	12
1103	Point Repair (0'-9") (all depths)	EA	3
1109	Service Reconnections - Remote Cutting Connection	EA	5

NOTES:

- CONTRACTOR TO COORDINATE AND NOTIFY VIA REGARDING BUS ROUTES.
- CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS WITH BELONGINGS IN ROW TO BE REMOVED PRIOR TO CONSTRUCTION.
- COSA FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED FOR THIS SITE.
- CONTRACTOR TO REFER TO PHASE II ESA REPORT PROVIDED BY SAWS. SOILS WITH INTERMIXED ASPHALT PIECES ARE TO BE REUSED BENEFICIALLY ON SITE OR TREATED AND APPROPRIATELY DISPOSED OF AS NON-HAZARDOUS WASTE (NSPI).
- THE NEAREST 100-YEAR FLOOD PLAIN ELEVATION IS 582.00 FEET.

SERVICE LATERALS

COMPKEY 986477
 STA. 10+85 (R)
 STA. 11+08 (R) DEFECTIVE
 STA. 11+55 (R)
 STA. 11+75 (R)
 STA. 12+88 (TOP) DEFECTIVE

NOTE: ALL SERVICES TO BE FIELD VERIFIED. SERVICE LATERAL LOCATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. LATERAL LOCATION IS ORIENTED FROM THE UPSTREAM DIRECTION.



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 13750 San Pedro Avenue
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No.	Revision	Drawn	Approved	Date
▲	Addendum #2	AJD	MML	10/23

REVISIONS

2021 CMOM PKG 7

SITE 36 CMPKY 986477
STA 10+00 - 13+61 CIPP
RHB & PNT RPR

DEVELOPER: SAN-ANTONIO-WATER-SYSTEM
 CONT. BUDGET PROJ. 00-00-00

SUBMITTED _____
 APPROVED _____

MAP No. 000-000 SHEET
 SECT. No. 123
 DR:UOP CK:MML JOB No. 22-4516 OF 145

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