



2021 SMP Package V (Hilary Rd, Delaware, Whitefield) Project
Solicitation Number: CO-00359
Job No.: 20-5012 & 20-5511

ADDENDUM 1
August 25, 2020

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. Question:** Will the proposed water tie-ins be completed in normal working hours after the proper notifications are done?

Response: Yes, with exception of the 12-inch water tie-in at Goliad Rd and Whitefield Ave which shall be coordinated with SAWS inspection and any affected business owners at night after business hours.
- 2. Question:** Please clarify if the bid items referencing the removal and replacement of concrete curbs, sidewalks and driveways will be paid for the water service and sewer service crossings where this work is required? Not subsidiary?

Response: Yes it is subsidiary as related to the trench work for the laterals, but the removal and replacement of concrete curbs, sidewalks and driveways for water and sewer service crossings beyond the trench repair limits are included in the associated bid items in the bid proposal and are not considered subsidiary.
- 3. Question:** Where flowable fill is required for the sewer main encasement, will the sewer services also require flowable fill encased around the laterals? If yes, will this work be paid for under flowable fill bid item?

Response: Yes, flowable fill shall be installed around the sewer services where sewer laterals are crossing over or under water mains or are parallel to and having less than 9-foot separation distance from a water main or water service. Yes, the work associated to flowable fill around the sewer laterals shall be paid under the flowable fill line item per Specification Item No. 413.2.
- 4. Question:** With all these projects going in at the same day, can some of the items on packet checklist be submitted a later date?

Response: Certificate of Insurance can be submitted after bid opening but prior to contract execution.
- 5. Question:** In our opinion the magnitude of work will require 300 calendar days to complete. Will SAWS increase their number of days to 300?

Response: The calendar days for this project are 240 calendar days and will not be increased for this package.
- 6. Question:** Will the Owner/Engineer please provide the budget for this project?

Response: The estimated cost for this project is \$2,012,689.76.

- 7. Question:** Will the Owner/Engineer please provide any previous itemized bid tabulations for projects of similar scope?
Response: Previous project bid tabulations are available on SAWS website for public view.
- 8. Question:** Will the Owner/Engineer please provide the anticipated NTP date for this project?
Response: The anticipated Notice-to-Proceed (NTP) date will be in October 2020 following the award of the contract at the October 6, 2020 Board meeting.
- 9. Question:** Will the Owner/Engineer please confirm if there are any prevailing wage requirements for this job?
Response: Yes, wage requirements can be found in Section 2.10 of the General Conditions.
- 10. Question:** Will the Owner/Engineer provide copies of existing CCTV files for pipe segments proposed rehabilitation?
Response: The existing CCTV files may not be made available to any prospective bidders.
- 11. Question:** I am verifying these packages are incorporating the new SAWS specifications and are accepting ConShield Manholes as an option in lieu of interior manhole coating?
Response: Please refer to the specifications for approved materials for this project and provide pricing based on the plans and specifications.
- 12. Question:** I am verifying these packages are incorporating the new SAWS specifications and are accepting as an option polytubing for the water service in lieu of copper?
Response: Please refer to the specifications for approved materials for this project and provide pricing based on the plans and specifications.
- 13. Question:** If there are manhole adjustments called for on existing manholes, will SAWS require interior coating be applied? If yes, will a bid item be added for this work?
Response: No manhole adjustments are anticipated to existing manholes for this project. If any manhole adjustments become necessary, they will not require interior coating to be applied.
- 14. Question:** If there is a bid item on the sewer for air testing, mandrel, and vacuum test, will this item be paid? In the past this has been subsidiary.
Response: Yes, the bid item for Specification Item No. 849, Sanitary Sewer Acceptance Testing, is on a per linear foot basis and has been added in the revised Bid Proposal attached to this addendum.
- 15. Question:** Some of the water plan pages on the summary call for the water line restrained (all depths). Please clarify if it is SAWS intent for 100% of the water line to be restrained or the contractor to follow SAWS specified lengths on the fittings?
Response: The water main shall be restrained per Specification Item No. 839.

CHANGES TO THE SPECIFICATIONS

- BID PROPOSAL.** The Bid Proposal is hereby deleted in its entirety and replaced with the revised Bid Proposal attached to this addendum.
 - Added Bid Item No. 45 (Item No. 14s) to include Specification 849 – Sanitary Sewer Acceptance Testing per Linear Foot (LF).
 - Bid Item No. 37 (Item No. 6s) includes updated quantity.
- BID PACKET CHECKLIST.** The Bid Packet Checklist is hereby deleted in its entirety and replaced with the revised Bid Proposal attached to this addendum.

CHANGES TO THE PLANS

- Test hole (#01) conducted at Delaware St. and S. Piedmont Ave. Summary of Test Hole Information and Coordinates may be found attached to this addendum with the respective plan sheets revised (Sheet 12 and 16-Water Improvements, and Sheet 14 and 20-Sewer Improvements).
- Added Item 849 and revised quantity to Item 413.2 on Sheet 2 of the Sewer Improvements.
- Revised Sheets 13 and 15 to the water improvements and Sheets 17 and 19 to the sewer improvements to include existing trees surveyed within the right-of-way of Whitefield Ave.
- Remove the following and replace with attached sheets with seal dated 8/19/2020:
 - "Delaware St STA 107+50 to STA POE" – Sheet 12, Water Improvements
 - "Whitefield Ave STA 300+00 to STA 304+00" – Sheet 13, Water Improvements
 - "Whitefield Ave STA 308+00 to STA POE" – Sheet 15, Water Improvements
 - "Intersection Insets and Details" – Sheet 16, Water Improvements
 - "Index and Quantity Summary Sheet" – Sheet 2, Sewer Improvements
 - "Delaware St STA 107+50 to STA POE" – Sheet 14, Sewer Improvements
 - "Whitefield Ave STA 300+00 to STA 304+00" – Sheet 17, Sewer Improvements
 - "Whitefield Ave STA 308+00 to STA POE" – Sheet 19, Sewer Improvements
 - "Intersection Insets and Details" – Sheet 20, Sewer Improvements

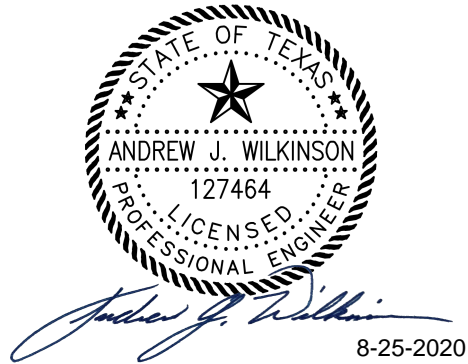
CLARIFICATIONS

- 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 1:00 PM (CDT), Tuesday, September 1, 2020. 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.**
- Please use the revised Bid Proposal attached to this Addendum footnoted Addendum No. 1 when submitting a bid for this project.
- Please use the revised Bid Packet Checklist attached to this Addendum footnoted Addendum No. 1 when submitting a bid for this project.
- The public Bid Opening will be conducted on video via a WebEx meeting on **Tuesday, September 1, 2020 at 1:00 PM (CT)**. Please reference the Invitation to Bidders for WebEx conference information.
- The estimated cost for this project has been revised from \$1,976,384.26 to \$2,012,689.76.

END OF ADDENDUM

This Addendum, including these four (4) pages, is twenty-one (21) pages with attachments in its entirety.

Attachments: Electronic Bid Opening Instructions (1 page total)
 Bid Packet Checklist (1 page total)
 Bid Proposal (5 pages total)
 Test Hole Summary Page (1 page total)
 Updated Sewer Plan Sheets (5 sheets total)
 Updated Water Plan Sheets (4 sheets total)



Andrew J. Wilkinson, P.E.
Lockwood, Andrews & Newnam, Inc.
TBPE Registration No. F-2614



**2021 SMP Package V Project
Solicitation Number: CO-00359**

ELECTRONIC BID OPENING INSTRUCTIONS
September 1, 2020 at 1:00 P.M. CDT)

FTP BID PROPOSAL UPLOAD

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 **August 31, 2020 by 1:00 pm** to receive access to the FTP site via email to **Stella.Manzello@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 **August 31, 2020 by 1:00 pm** (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 **September 1, 2020 by 1:00 pm** (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.

Bidders shall comply with the following:

- 1) Limit files to one (1) pdf file that includes all requested documents, per the Bid Packet Checklist. **ONLY ONE SUBMITTAL WILL BE ACCEPTED PER REQUEST.** Do not upload any zip files.
- 2) Ensure that the itemized List of Bid Items is (are) the first page(s) of your file.
- 3) Bidders may protect the document from editing by adding a password. However, the document must be accessible for viewing by SAWS without requiring a password.
- 4) File shall be named: **CO-00359 – 2021 SMP Package V Project.**
- 5) **DO NOT SHARE ACCESS AND/OR PASSWORD WITH OTHER PARTIES OUTSIDE YOUR COMPANY.**
- 6) **ENSURE THE BID IS SENT NO LATER THAN THE DUE DATE AND TIME. BIDS SUBMITTED AFTER THE BID OPENING DEADLINE WILL NOT BE ACCEPTED.**

If the Bidder is in need of help, they may contact the SAWS Contract Administrator, **Stella Manzello**, at 210-233-3854 or view troubleshooting tips at <http://www.Serv-U.com/sharefiles>

WEBEX BID OPENING MEETING

The WebEx meeting details are below if you would like to view the public opening of the bids.

When it's time, start or join the WebEx meeting from [here](#).

Access Information

Meeting Number: **146 507 0788**

Meeting Password: **tXVRiSmC653**

Audio Connection: 210-233-2090 (SAWS WebEx)

If you have any questions or concerns, please feel free to contact me.

Thank you,

Stella Manzello

Contract Administrator

2800 U.S. Highway 281 North, Ste. 171 | San Antonio, TX 78212

Office | 210-233-3854

Email | Stella.Manzello@saws.org

SAN ANTONIO WATER SYSTEM

2021 SMP Package V Project - IFB | ADDENDUM 1

1 of 2

BID PACKET CHECKLIST
2021 SMP Package V PROJECT
SAWS Job No. 20-5012-& 20-5511
SAWS Solicitation No. CO-00359

This checklist is a required document that must be utilized and submitted with the Bid Packet. The Bid Packet should include the following items in this order:

- Signed Bid Proposal Signature Page, Acknowledgement of All Addendums and Executive Order
- List of Bid Items
- Bid Packet Checklist
- Signed Proposal Certification
- Bid Bond
- Completed Good Faith Effort Plan
- Conflict of Interest Questionnaire - Form CIQ (*Rev. 11/30/2015*)
- Company Information Packet
- Statement regarding ability to complete the project
- W-9
- Statement of Bidder's Experience
- Detailed Baseline Schedule
- *And, if bid was submitted electronically without a Bid Bond:**
- Cashier's Check or Certified Check

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 Nos. _____

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 **240** 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

2021 SMP Package V (Hilary Rd, Delaware, Whitefield)
(SAWS Job No. 20-5012 & 20-5511)

Line No.	Item No.	Spec No.	Description	Unit	Quantity	Unit Price	Total Price
1	1w	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	71	\$	\$
2	2w	103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	1592	\$	\$
3	3w	203.1	TACK COAT (COSA SPEC)	GAL	149	\$	\$
4	4w	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	1196	\$	\$
5	5w	205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	1467	\$	\$
6	6w	500.1	CONCRETE CURB (COSA SPEC)	LF	71	\$	\$
7	7w	502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	60	\$	\$
8	8w	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	118	\$	\$
9	9w	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) – DELAWARE ST	EA	1	\$	\$
10	10w	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) – WHITEFIELD AVE	EA	1	\$	\$
11	11w	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	2531	\$	\$
12	12w	814	6" DUCTILE IRON PIPE	LF	10	\$	\$
13	13w	814	8" DUCTILE IRON PIPE	LF	1250	\$	\$
14	14w	814	12" DUCTILE IRON PIPE	LF	10	\$	\$
15	15w	818	6" PVC WATERLINE (FULLY RESTRAINED) (ALL DEPTHS)	LF	29	\$	\$
16	16w	818	8" PVC WATERLINE (FULLY RESTRAINED) (ALL DEPTHS)	LF	1232	\$	\$
17	17w	824	RELAY 3/4" SERVICE (SHORT)	EA	24	\$	\$
18	18w	824	RELAY 3/4" SERVICE (LONG)	EA	30	\$	\$
19	19w	824	CUSTOMER SHUT-OFF VALVE W/BOX	EA	54	\$	\$
20	20w	828	6" GATE VALVE	EA	1	\$	\$

21	21w	828	8" GATE VALVE	EA	7	\$	\$
22	22w	833	NEW METER BOX	EA	54	\$	\$
23	23w	833	EXISTING METER AND NEW METER BOX RELOCATION	EA	54	\$	\$
24	24w	834.1	FIRE HYDRANT	EA	4	\$	\$
25	25w	836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	3.0	\$	\$
26	26w	840	6" WATER TIE-IN	EA	4	\$	\$
27	27w	840	8" WATER TIE-IN	EA	4	\$	\$
28	28w	840	12" WATER TIE-IN	EA	2	\$	\$
29	29w	841	HYDROSTATIC TESTING	EA	2	\$	\$
30	30w	844	2" BLOW-OFF, TEMPORARY	EA	6	\$	\$
31	31w	3000	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	LF	143	\$	\$
32	1s	103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	4985	\$	\$
33	2s	203.1	TACK COAT (COSA SPEC)	GAL	167	\$	\$
34	3s	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	911	\$	\$
35	4s	205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	1392	\$	\$
36	5s	208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	258	\$	\$
37	6s	413.2	FLOWABLE FILL (HIGH STRENGTH) (COSA SPEC)	CY	384	\$	\$
38	7s	502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	48	\$	\$
39	8s	503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	509	\$	\$
40	9s	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) – DELAWARE ST	EA	1	\$	\$
41	10s	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) – HILARY RD	EA	1	\$	\$
42	11s	530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) – WHITEFIELD AVE	EA	1	\$	\$

43	12s	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	1657	\$	\$
44	13s	848	8" PVC SANITARY SEWER PIPE (SDR 26, 160 PSI)	LF	1657	\$	\$
45	14s	849	SANITARY SEWER ACCEPTANCE TESTING	LF	1657	\$	\$
46	15s	852.6.1	SANITARY SEWER MANHOLE (0-6' DEPTH) (WATERTIGHT)	EA	6	\$	\$
47	16s	853.6.2	EXTRA DEPTH MANHOLES (>6' DEEP)	VF	1	\$	\$
48	17s	854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI)	LF	1395	\$	\$
49	18s	854.2	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	70	\$	\$
50	19s	855	RECONSTRUCTION OF EXISTING MANHOLES	EA	1	\$	\$
51	20s	858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	8	\$	\$
52	21s	864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - DELAWARE ST	EA	1	\$	\$
53	22s	864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - HILARY RD	EA	1	\$	\$
54	23s	864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - WHITEFIELD AVE	EA	1	\$	\$
55	24s	866	SANITARY SEWER MAIN PRE TELEVISION INSPECTION	LF	2598	\$	\$
56	25s	866	SANITARY SEWER MAIN POST TELEVISION INSPECTION	LF	1506	\$	\$
57	26s	900	PIPE BURSTING 8" SANITARY SEWER PIPE (ALL DEPTHS)	LF	1092	\$	\$
58	27s	910.1	MANHOLE REHABILITATION (STANDARD MANHOLES 4FT DIAMETER)	VF	16	\$	\$
59	28s	1103.1	POINT REPAIRS FOR 18" AND SMALLER DIA. (ALL DEPTHS) INCLUDING UP TO 9 LF OF PIPING	EA	3	\$	\$
60	29s	1109	SERVICE RECONNECTION BY OPEN CUT EXCAVATION (ALL DEPTHS)	EA	17	\$	\$
SUBTOTAL (ITEMS 1 - 60)							\$

100	MOBILIZATION AND DEMOBILIZATION, MAX 10% OF LINE ITEMS 1 - 60	L.S.	1	\$
101	PREPARING ROW, MAX 5% OF LINE ITEMS 1 - 60	L.S.	1	\$

Mobilization and Prep of ROW shall be limited to the maximum percentage shown. **If the percentage exceeds the allowable maximum stated for mobilization and or preparation of ROW, SAWS reserves the right to cap the**

amount at the percentages shown and adjust the extensions of the bid items accordingly.

TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1-60 AND 100-101)	\$
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The Rios Group, Inc.
1740 Universal City Blvd., Suite 200
Universal City, Texas 78148
(210) 981-3050

Summary of Test Hole Information and Coordinates



Project Name:	SAWS SMP PKG V	General Location:	Delaware St. & S. Piedmont Avenue			Field Manager:	E. Ramirez
Client Name:	LAN				Technicians:	BM, RS	
Client Proj. Number:					Vacuum Excavation Truck:	VT3	
TRG Proj. Number:	LAN2004.00	City:	San Antonio	County:	Bexar	State:	Texas
					Designating Truck:	T34	

Test Hole #	Utility Size, O.D. (Inches)	Utility Material (Refer to Legend)	Utility Type (Refer to Legend)	Depth to Top of Utility (Feet)	Cross Sectional View	General Utility Direction	Surface Type and Thickness (Inches) (Refer to Legend)	ID'd By: 1: IR/Cap 2: Nail/Disk 3: X in Conc 4: X in Asph	Date Test Hole Excavated	Utility Observed (Yes or No)	Survey Point #	Northing (Y)	Easting (X)	Ground Elevation (Z)	Top of Utility Elevation	Test Hole Specific Notes/Locations/Etc
01	4	STL	G	5.54	○	↑	A - 8	Nail/Disk	7/31/2020	Yes	1002	13696178.24	2138199.14	668.10	662.56	Owner: CPS Energy

Notes:

Utility Materials:		
STL - Steel	PVC - Polyvinyl Chloride	CSC - Concrete/Steel Cylinder
PE - Polyethylene	DBC - Direct Buried Cable	CP - Clay Pipe
AC - Transite	RCP - Reinforced Concrete Pipe	CONC - Concrete
CI - Cast Iron	VC - Vitrified Clay	CSTL - Coated Steel
DI - Ductile Iron	RPC - Rough Poured Concrete	UNK - Unknown

Utility Types:		
E - Electric	BT - Buried Telephone	TS - Traffic Signal
G - Gas	FOC - Fiber Optic Cable	FM - Force Main
W - Water	SAN - Sanitary Sewer	CWL - Chilled Water Line
PL - Product Line	STM - Storm Sewer	UNK - Unknown
FL - Fuel Line	COM - Communication	

Surface Types:
A - Asphalt
B - Brick
C - Concrete
NG - Natural Ground
-

Prepared By: Tommy Franke

Date: 8/18/2020

Checked by: Travis Isaacson

Date: 8/18/2020

SEWER IMPROVEMENTS QUANTITY SUMMARY TABLE

SEWER IMPROVEMENTS INDEX OF SHEETS

ITEM	DESCRIPTION	UNIT	DELAWARE ST			HILARY RD		WHITEFIELD AVE			TOTAL
			SHEET 12	SHEET 13	SHEET 14	SHEET 15	SHEET 16	SHEET 17	SHEET 18	SHEET 19	
100	MOBILIZATION	LS	0	0	0	0	0	0	0	0	1
101	PREPARING RIGHT OF WAY	LS	0	0	0	0	0	0	0	0	1
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	277	1347	369	796	383	369	558	432	4985
203.1	TACK COAT (COSA SPEC)	GAL	70	26	20	21	8	0	0	6	167
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	182	207	158	174	64	0	0	43	911
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	461	259	199	213	78	0	0	55	1392
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	234	0	0	0	0	0	0	0	258
413.2	FLOWABLE FILL (HIGH STRENGTH) (COSA SPEC)	CY	87.2	100.3	70.6	0	0	0	0	0	384
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	0	0	0	3	0	18	15	7	48
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	31	150	41	86	43	23	47	41	509
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) - DELAWARE ST	EA	0	0	0	0	0	0	0	0	1
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) - HILARY RD	EA	0	0	0	0	0	0	0	0	1
530.1	BARRICADES, SIGNS, AND TRAFFIC HANDLING (COSA SPEC) - WHITEFIELD AVE	EA	0	0	0	0	0	0	0	0	1
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	348	400	282	352	124	0	0	0	1657
848	8" PVC SANITARY SEWER PIPE (SDR 26, 160 PSI)	LF	348	400	282	352	124	0	0	0	1657
849	SANITARY SEWER ACCEPTANCE TESTING	LF	348	400	282	352	124	0	0	0	1657
852.6.1	SANITARY SEWER MANHOLE (0' - 6' DEPTH) (WATERTIGHT)	EA	0	1	0	0	2	0	1	2	6
853.6.2	EXTRA DEPTH MANHOLES (> 6' DEEP)	VF	0	1	0	0	0	0	0	0	1
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI)	LF	268	374	274	265	87	0	0	0	1395
854.2	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	11	15	11	12	4	5	7	5	70
855	RECONSTRUCTION OF EXISTING MANHOLES	EA	0	0	0	1	0	0	0	0	1
858	CONCRETE ENCASMENT, CRADLES, SADDLES AND COLLARS	CY	0	0	0	0	6.4	0	0	0	8.0
864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - DELAWARE ST	EA	0	0	0	0	0	0	0	0	1
864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - HILARY RD	EA	0	0	0	0	0	0	0	0	1
864	BYPASS PUMPING (SMALL DIAMETER SANITARY SEWERS) - WHITEFIELD AVE	EA	0	0	0	0	0	0	0	0	1
866	SANITARY SEWER MAIN PRE TELEVISION INSPECTION	LF	348	400	282	352	124	358	400	334	2598
866	SANITARY SEWER MAIN POST TELEVISION INSPECTION	LF	348	400	282	352	124	0	0	0	1506
900	PIPE BURSTING 8" SANITARY SEWER PIPE (ALL DEPTHS)	LF	0	0	0	0	0	358	400	334	1092
910.1	MANHOLE REHABILITATION (STANDARD MANHOLES 4FT DIAMETER)	VF	6	0	6	0	0	4	0	0	16
1103.1	POINT REPAIRS FOR 18" AND SMALLER DIA. (ALL DEPTHS) INCLUDING UP TO 9 LF OF PIPING	EA	0	0	0	0	0	0	0	0	3
1109	SERVICE RECONNECTION BY OPEN CUT EXCAVATION (ALL DEPTHS)	EA	0	0	0	0	0	5	7	5	17

SHEET	DESCRIPTION
1	COVER
2	INDEX AND QUANTITY SUMMARY SHEET
3-4	GENERAL NOTES
5-11	SANITARY SEWER CONTROL SHEETS
12	DELAWARE ST STA 100+00 TO STA 103+50
13	DELAWARE ST STA 103+50 TO STA 107+50
14	DELAWARE ST STA 107+50 TO STA POE
15	HILARY RD STA 200+00 TO STA 203+50
16	HILARY RD STA 203+50 TO POE
17	WHITEFIELD AVE STA 300+00 TO STA 304+00
18	WHITEFIELD AVE STA 304+00 TO STA 308+00
19	WHITEFIELD AVE STA 308+00 TO STA POE
20	INTERSECTION INSETS AND DETAILS
21	TREE PROTECTION DETAILS

FILE: INDEX QUANTITY SUMMARY_SSMR.dwg PLOTTED: 8/24/2020 10:39 AM BY: MOHRE, TYLER

100% SUBMITTAL



Andrew J. Wilkinson
8/19/2020

LAN Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE REGISTRATION NO: F-2614

1	ADDENDUM NO. 1	TRM	AJW	8/19/20
NO.	REVISION	DRAWN	APPROVED	DATE

REVISIONS

SAWS 2021 SMP PKG V
SEWER IMPROVEMENTS
INDEX AND QUANTITY SUMMARY SHEET

DEVELOPER: _____
CONT. BUDGET PROJ. _____
SUBMITTED _____
APPROVED _____

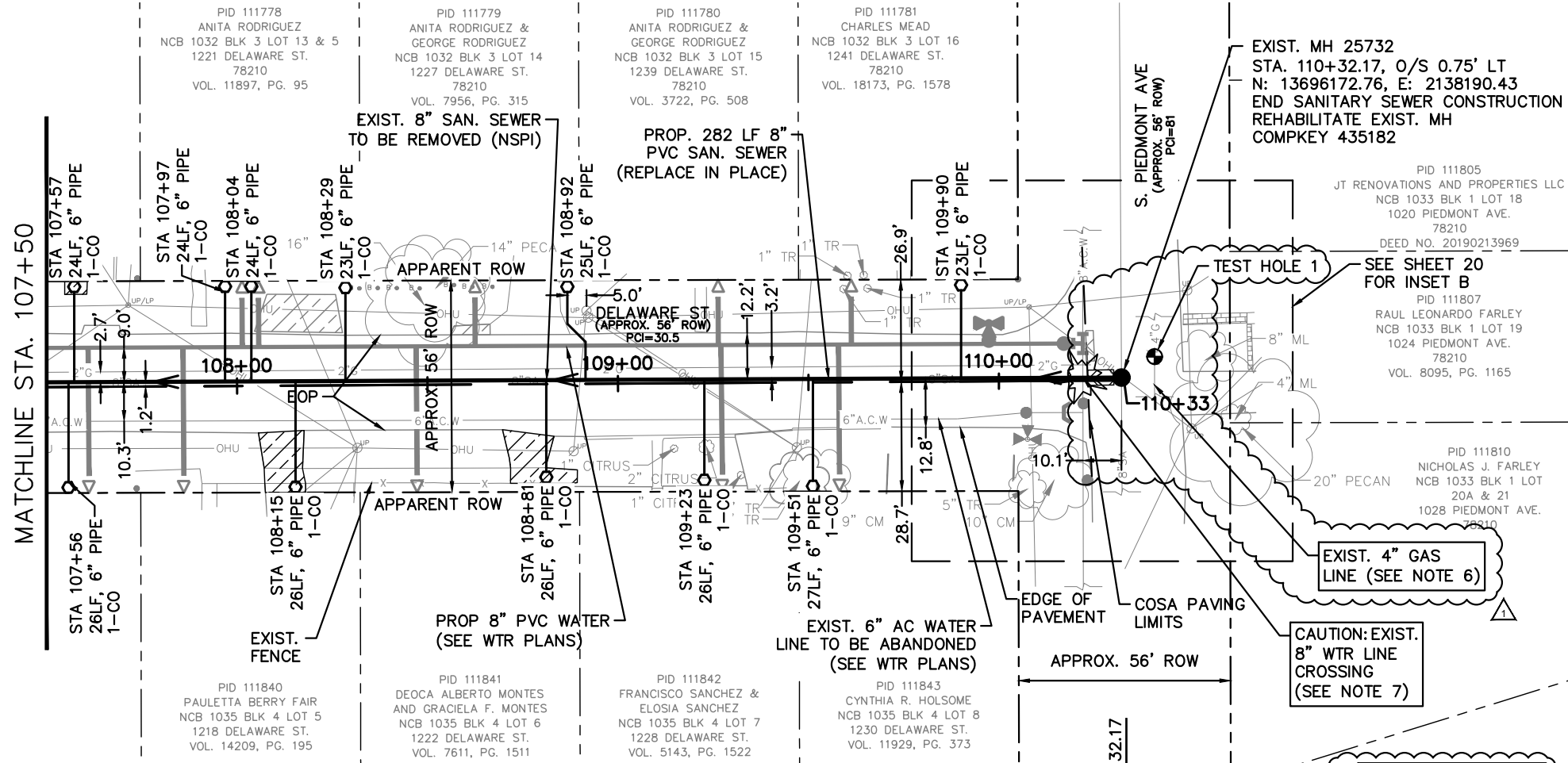
MAP NO. _____ SHEET 2
SECT. NO. _____ OF 21
DR. TRM | CK. AJW | JOB NO. 20-5511

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

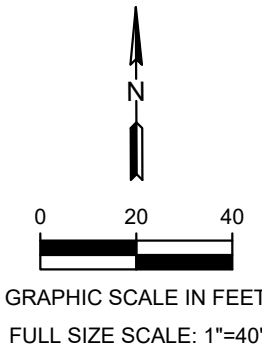
ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	369
203.1	TACK COAT (COSA SPEC)	GAL	20
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	158
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	199
413.2	FLOWABLE FILL (HIGH STRENGTH) (COSA SPEC)	CY	70.6
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	41
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	282
848	8" PVC SANITARY SEWER PIPE (SDR 26, 160 PSI)	LF	282
854.1	SANITARY SEWER LATERALS (SDR 26, ASTM 2241, 160 PSI)	LF	274
854.2	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	11
866	SANITARY SEWER MAIN PRE TELEVISION INSPECTION	LF	282
866	SANITARY SEWER MAIN POST TELEVISION INSPECTION	LF	282
910.1	MANHOLE REHABILITATION (STANDARD MANHOLES 4FT DIAMETER)	VF	6

- NOTES:
- DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 - PROPERTY LINES SHOWN ARE APPROXIMATE AND RIGHT-OF-WAY BOUNDARY LINE SHOWN IS APPARENT.
 - THE EXISTENCE AND LOCATION OF UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE BASED ON THE AVAILABLE AS-BUILT DRAWINGS AND ARE NOT GUARANTEED TO BE ACCURATE.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING LATERALS PRIOR TO CONSTRUCTION (NSPI).
 - CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION (NSPI).
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 - LATERALS SHALL BE INSTALLED TO THE APPARENT ROW BOUNDARY LINE WITH CLEANOUT AND SAWS APPROVED THREADED CLEANOUT CAP (NSPI). CAST IRON GATE CAP (NSPI) REQUIRED FOR CLEANOUTS IN SIDEWALK OR DRIVEWAY.
 - TREES FOUND ON PRIVATE PROPERTY WITH BRANCHES THAT OVERHANG ONTO PUBLIC ROW, WHERE IDENTIFIED, MAY REQUIRE TRIMMING, PRUNING, AND ROOT PROTECTION FOR CONSTRUCTION AND SHALL FOLLOW APPROVED TREE PERMIT (NSPI). REFER TO SHEET 21 FOR TREE PROTECTION DETAILS AND NOTES.
 - SURVEY PREPARED BY MTR ENGINEERS, LLC DATED MAY 12, 2020.



TEST HOLE 1
 4" STL GAS
 N: 13696178.24
 E: 2138199.14
 GROUND ELEV = 668.10
 DEPTH = 5.54
 OWNER: CPS ENERGY



100% SUBMITTAL

STATE OF TEXAS
 ANDREW J. WILKINSON
 127464
 LICENSED PROFESSIONAL ENGINEER

8/19/2020

LEGEND

- PROP. SAN SEWER
- LATERAL WITH TWO WAY CLEAN OUT
- EXIST. WATER MAIN
- GAS MAIN
- SANITARY SEWER
- STORM SEWER
- UTILITY POLE LINE
- OVER HEAD UTILITY
- EXIST. RIGHT OF WAY
- PROPERTY LINES
- EXIST. TOPO
- EXIST. EDGE OF PAVEMENT (EOP)
- EXIST. TREES
- CONC. ENCASEMENT DRIVEWAY & SIDEWALK REPAIR
- FLOWABLE FILL

Lockwood, Andrews & Newnam, Inc.
 A LEO A DALY COMPANY
 TBPE REGISTRATION NO: F-2614

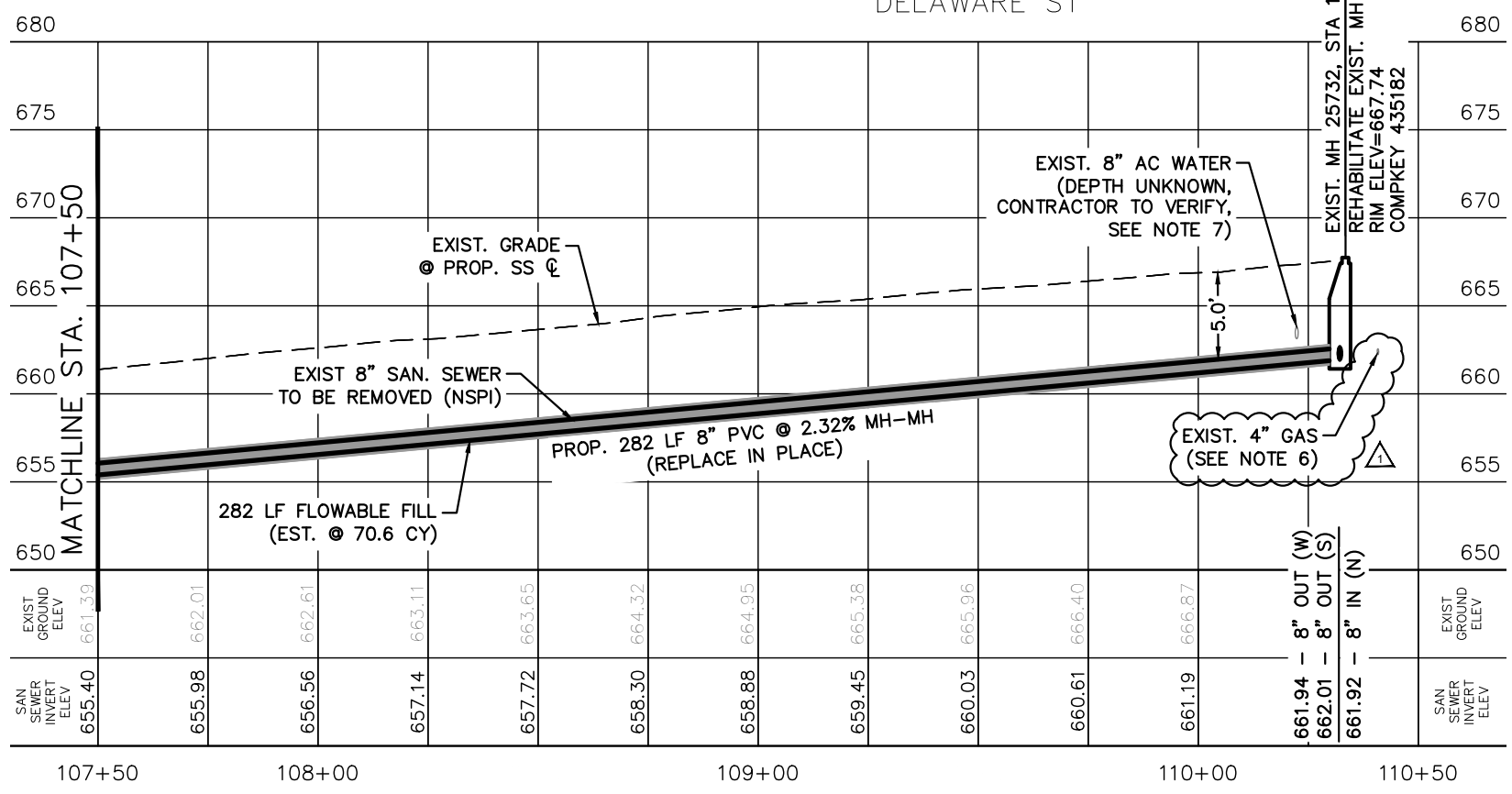
NO.	ADDENDUM NO. 1	TRM	AJW	8/19/20
	REVISION	DRAWN	APPROVED	DATE

REVISIONS

SAWS 2021 SMP PKG V
 SEWER IMPROVEMENTS
 DELAWARE ST STA 107+50 TO STA POE

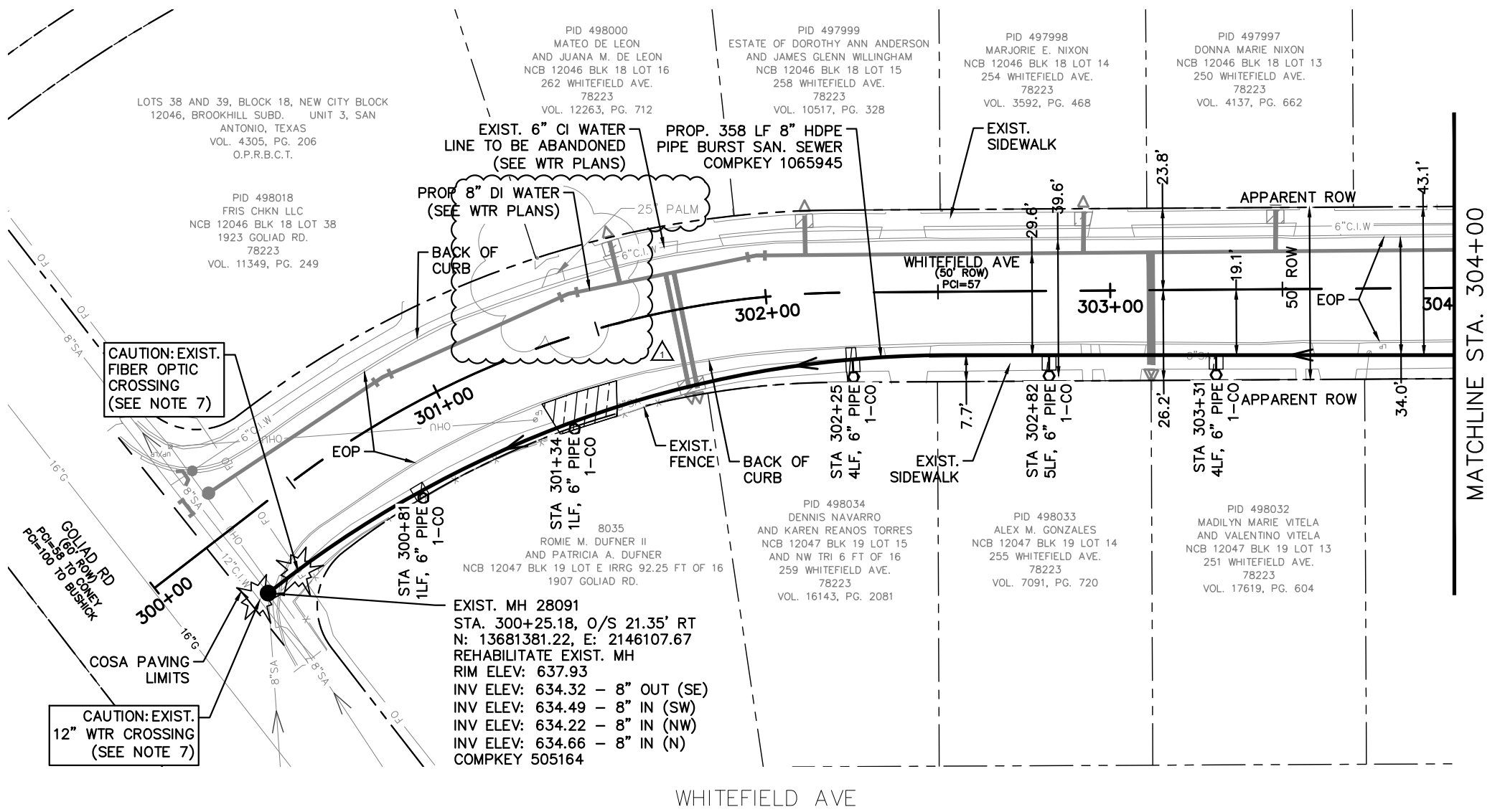
DEVELOPER: [Signature]
 CONT. [Signature] BUDGET PROJ.
 SUBMITTED [Signature]
 APPROVED [Signature]

MAP NO. 168572 - 180570 - 176556 SHEET 14 OF 21
 SECT. NO. [Blank]
 DR. TRM CK. AJW JOB NO. 20-5511



FILE: C-NP-SSWR-PLAN.dwg PLOTTED: 8/19/2020 10:35 AM BY: MOHRE, TYLER

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	369
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	18
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	23
854.2	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	5
866	SANITARY SEWER MAIN PRE TELEVISION INSPECTION	LF	358
900	PIPE BURSTING 8" SANITARY SEWER PIPE (ALL DEPTHS)	LF	358
910.1	MANHOLE REHABILITATION (STANDARD MANHOLES 4FT DIAMETER)	VF	4
1109	SERVICE RECONNECTION BY OPEN CUT EXCAVATION (ALL DEPTHS)	EA	5

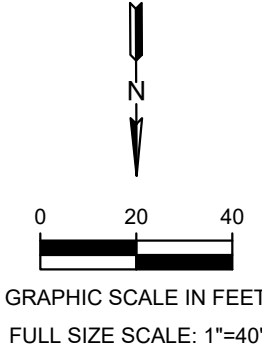


CAUTION: EXIST. FIBER OPTIC CROSSING (SEE NOTE 7)

CAUTION: EXIST. 12" WTR CROSSING (SEE NOTE 7)

EXIST. MH 28091
 STA. 300+25.18, O/S 21.35' RT
 N: 13681381.22, E: 2146107.67
 REHABILITATE EXIST. MH
 RIM ELEV: 637.93
 INV ELEV: 634.32 - 8" OUT (SE)
 INV ELEV: 634.49 - 8" IN (SW)
 INV ELEV: 634.22 - 8" IN (NW)
 INV ELEV: 634.66 - 8" IN (N)
 COMPKEY 505164

- NOTES:
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 - SURVEY PREPARED BY MTR ENGINEERS, LLC DATED MAY 12, 2020.



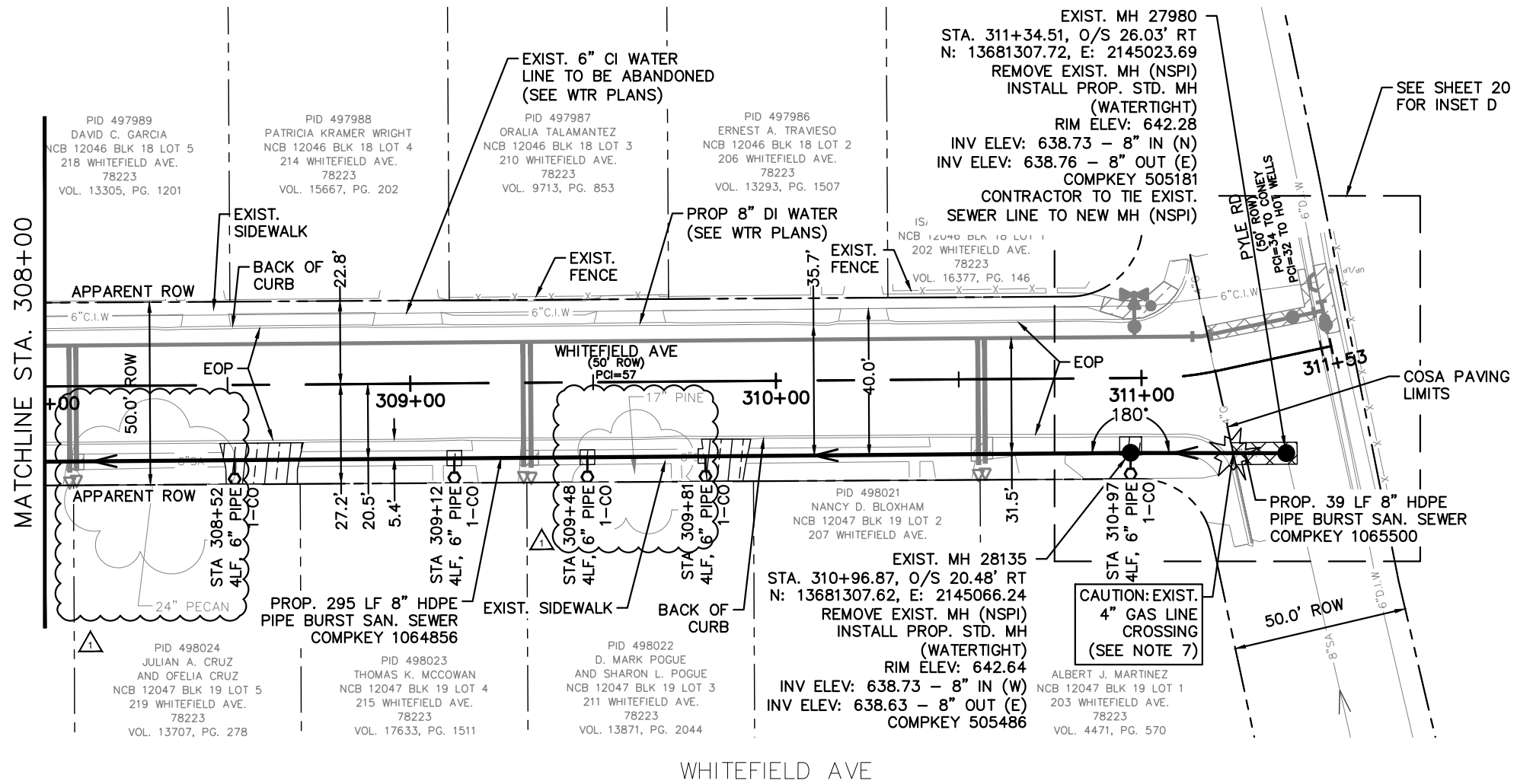
LEGEND			
PROP. SAN SEWER			
LATERAL WITH TWO WAY CLEAN OUT			
EXIST. WATER MAIN			
GAS MAIN			
SANITARY SEWER			
STORM SEWER			
UTILITY POLE LINE			
OVER HEAD UTILITY			
EXIST. RIGHT OF WAY			
PROPERTY LINES			
EXIST. TOPO			
EXIST. EDGE OF PAVEMENT (EOP)			
EXIST. TREES			
CONC. ENCASEMENT DRIVEWAY & SIDEWALK REPAIR			
FLOWABLE FILL			

 A LEO A DALY COMPANY TBPE REGISTRATION NO: F-2614				
1	ADDENDUM NO. 1	TRM	AJW	8/19/20
NO.	REVISION	DRAWN	APPROVED	DATE
REVISIONS SAWS 2021 SMP PKG V SEWER IMPROVEMENTS WHITEFIELD AVE STA 300+00 TO STA 304+00				
DEVELOPER:		BUDGET PROJ.		
CONT.		APPROVED		
MAP NO. 168572 - 180570 - 176556		SHEET 17		
SECT. NO.		JOB NO. 20-5511		
DR. TRM	CK. AJW	OF 21		

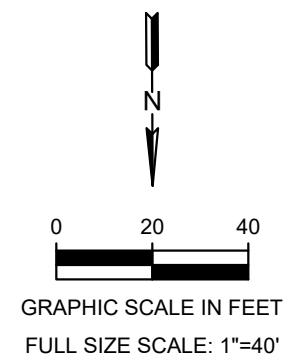
FILE: C-NP-SSWR-PLAN.dwg PLOTTED: 8/19/2020 10:35 AM BY: MOHRE, TYLER

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

FILE: C-NP-SSWR-PLAN.dwg PLOTTED: 8/19/2020 10:35 AM BY: MOHRE, TYLER



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	432
203.1	TACK COAT (COSA SPEC)	GAL	6
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	43
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	55
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	7
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	41
852.6.1	SANITARY SEWER MANHOLE (0' - 6' DEPTH) (WATERTIGHT)	EA	2
854.2	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	5
866	SANITARY SEWER MAIN PRE TELEVISION INSPECTION	LF	334
900	PIPE BURSTING 8" SANITARY SEWER PIPE (ALL DEPTHS)	LF	334
1109	SERVICE RECONNECTION BY OPEN CUT EXCAVATION (ALL DEPTHS)	EA	5



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LEGEND			
PROP. SAN SEWER			
LATERAL WITH TWO WAY CLEAN OUT			
EXIST. WATER MAIN			
GAS MAIN			
SANITARY SEWER			
STORM SEWER			
UTILITY POLE LINE			
OVER HEAD UTILITY			
EXIST. RIGHT OF WAY			
PROPERTY LINES			
EXIST. TOPO			
EXIST. EDGE OF PAVEMENT (EOP)			
EXIST. TREES			
CONC. ENCASEMENT DRIVEWAY & SIDEWALK REPAIR			
FLOWABLE FILL			

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBPE REGISTRATION NO: F-2614

NO.	ADDENDUM NO. 1	TRM	AJW	8/19/20
1				

REVISIONS

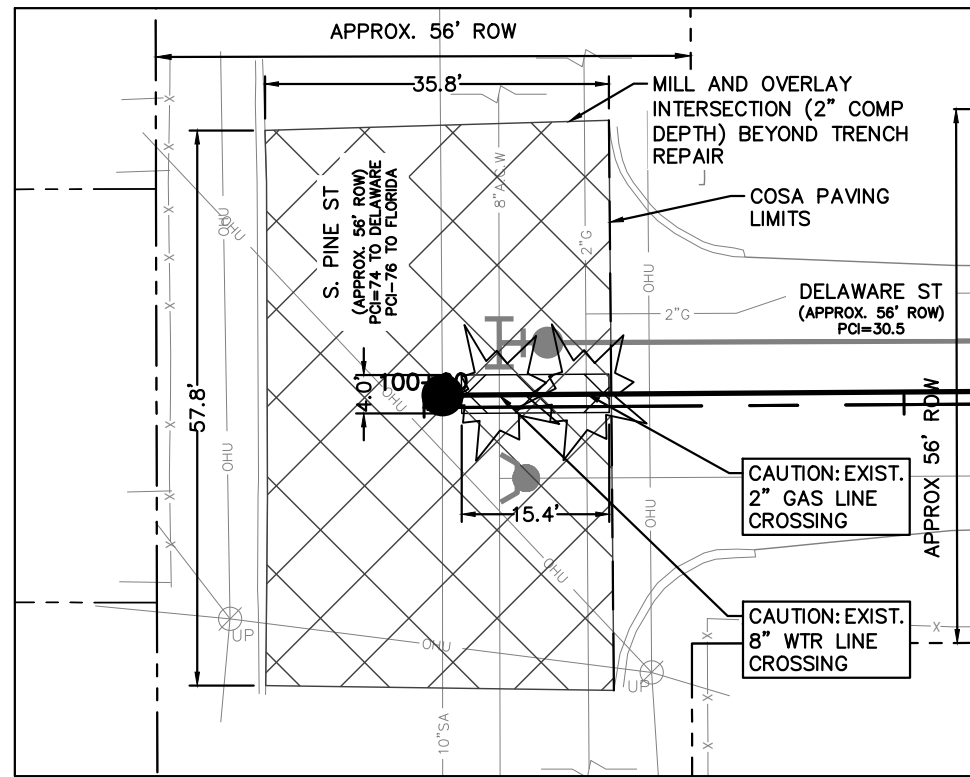
SAWS 2021 SMP PKG V
SEWER IMPROVEMENTS
WHITEFIELD AVE STA 308+00 TO STA POE

DEVELOPER: [Signature]
CONT. BUDGET PROJ.

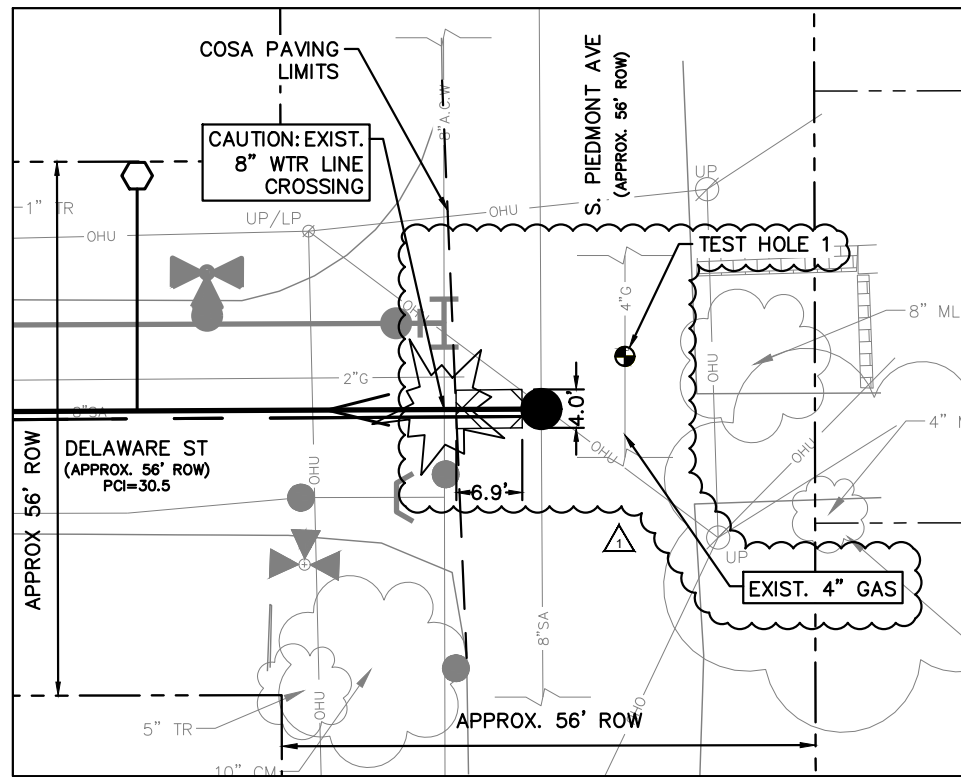
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APPROVED [Signature]

MAP NO. 168572 - 180570 - 176556 SHEET 19 OF 21
SECT. NO. 19
DR. TRM CK. AJW JOB NO. 20-5511

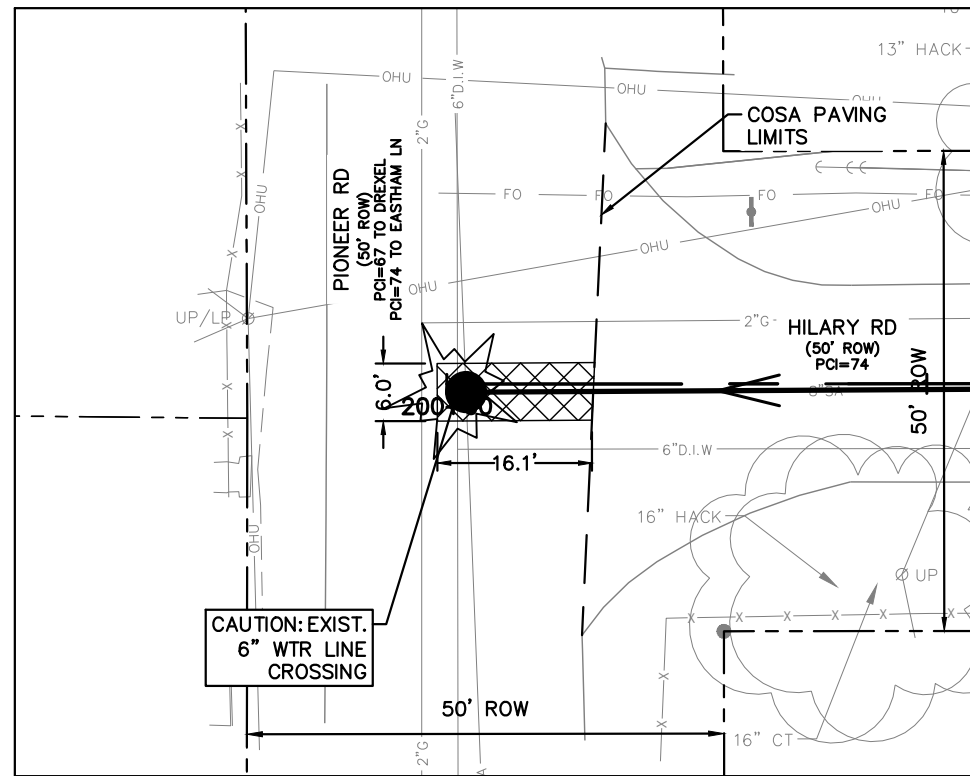
TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN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



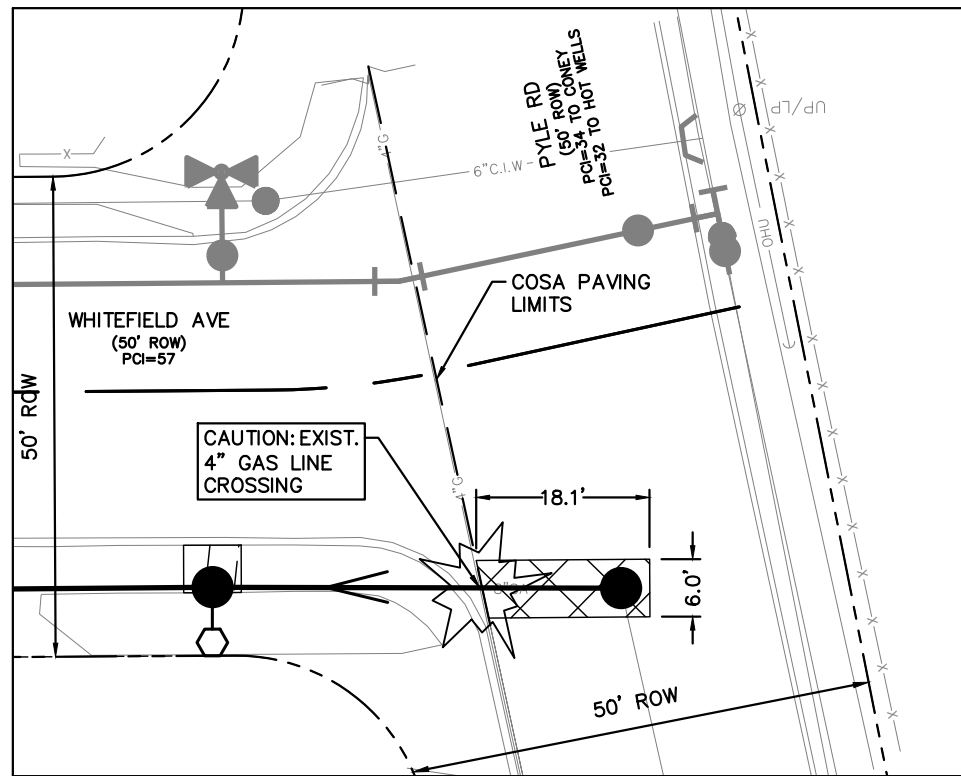
1
20 INSET A - DELAWARE ST AND PINE ST
SCALE: 1"=20'



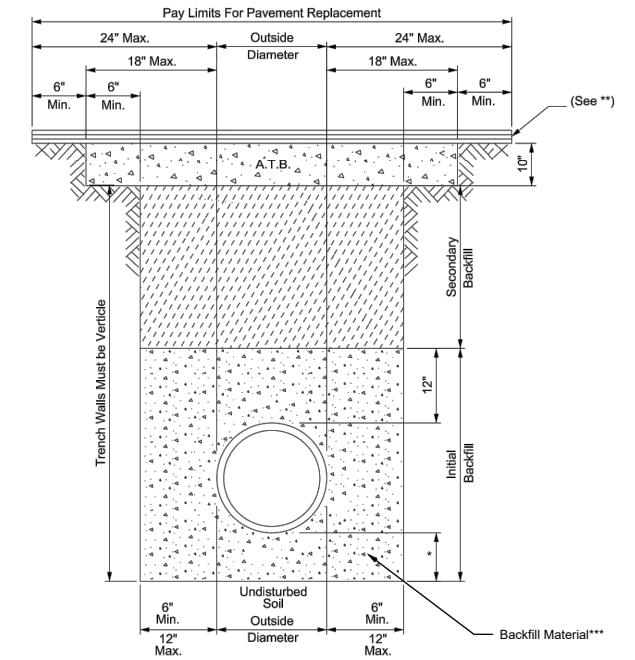
2
20 INSET B - DELAWARE ST AND PIEDMONT AVE
SCALE: 1"=20'



3
20 INSET C - HILARY RD AND PIONEER RD
SCALE: 1"=20'



4
20 INSET D - WHITEFIELD AVE AND PYLE ST
SCALE: 1"=20'

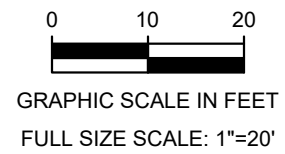


The Existing Material at the Bearing Level shall be Removed and Replaced to a Minimum Depth of 6-Inches or 1/5 of the Outside Diameter of the Pipe, whichever is Greater, with Bedding Material.

In Areas of over Excavation, Encasement shall extend from Trench Wall. Pay Limits shall not Exceed 12\"/>

- * Sewer Gravel 6" Min. or 1/4 O.D. of the Pipe, whichever is Greater.
- ** Minimum 2" HMAC Type "D" for Trench Repair in Local / Residential Streets.
- ** Minimum 3" HMAC Type "C" for Trench Repair in Collector / Arterial Streets.
- *** Backfill Material:
 - Delaware St. - Flowable Fill 12" all around Pipe.
 - Hilary Rd - Bedding per Note in Asterisk one (1) Above.
 - Whitefield Ave - Bedding per Note in Asterisk one (1) Above.

5
20 SANITARY SEWER PIPE TRENCH DETAIL
SCALE: N.T.S.



LEGEND	
PROP. SAN SEWER	
LATERAL WITH TWO WAY CLEAN OUT	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
OVER HEAD UTILITY	
EXIST. RIGHT OF WAY	
PROPERTY LINES	
EXIST. TOPO	
EXIST. EDGE OF PAVEMENT (EOP)	
EXIST. TREES	
CONC. ENCASEMENT	
DRIVEWAY & SIDEWALK REPAIR	



100% SUBMITTAL

Lockwood, Andrews & Newnam, Inc.
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TBPE REGISTRATION NO: F-2614

NO.	ADDENDUM NO. 1	TRM	AJW	8/19/20
1	REVISION	DRAWN	APPROVED	DATE

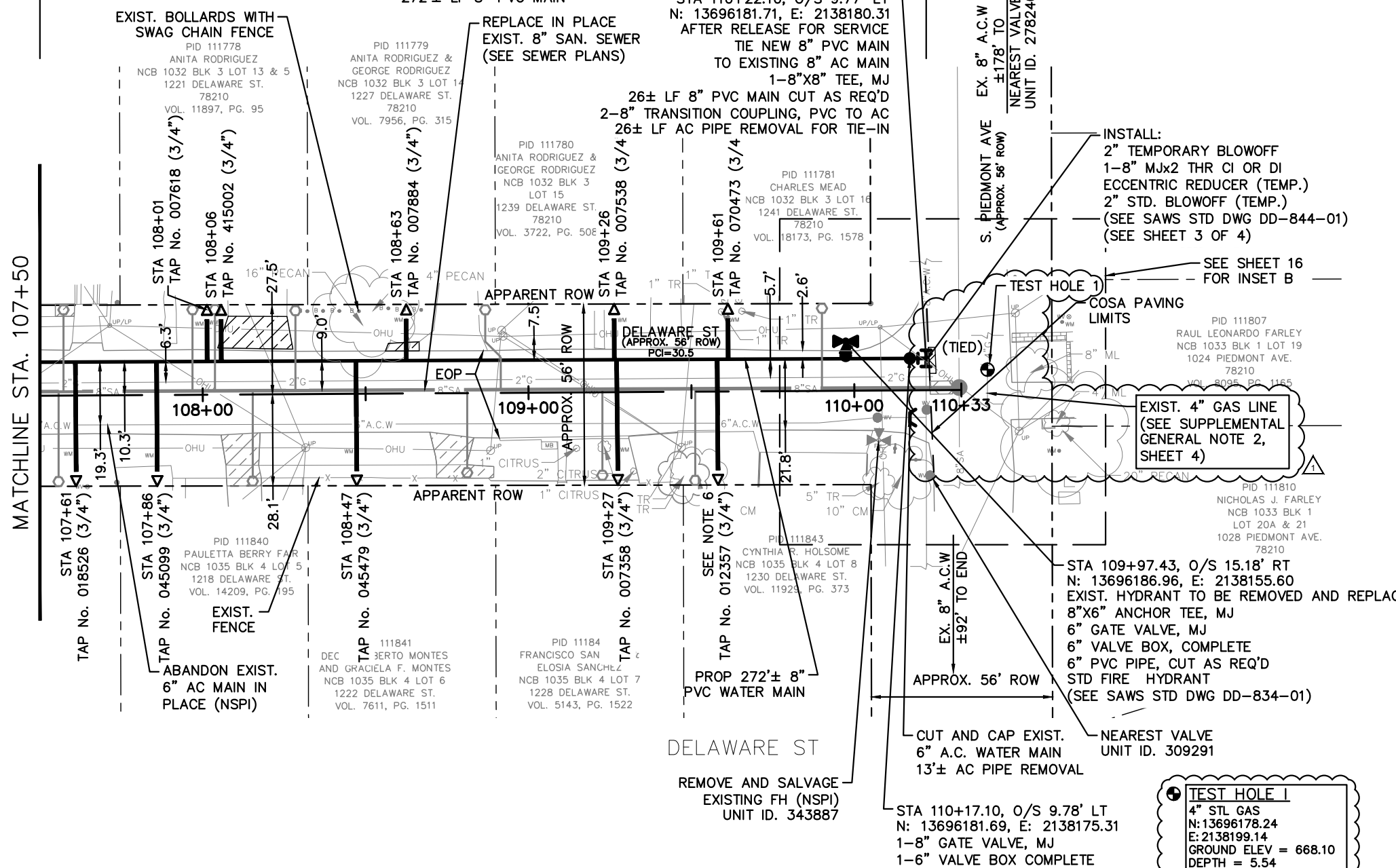
REVISIONS

SAWS 2021 SMP PKG V
SEWER IMPROVEMENTS
INTERSECTION INSETS AND DETAILS

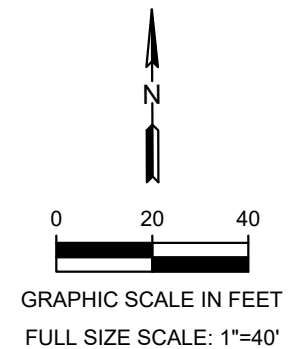
DEVELOPER:	BUDGET PROJ.		
CONT.			
SUBMITTED			
APPROVED			
MAP NO.			
SECT. NO.			
DR. TRM	CK. AJW	JOB NO. 20-5511	SHEET 20 OF 21

SAWS SHALL MACHINE CHLORINATE NEW MAIN

272± LF 8" PVC MAIN



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	237
203.1	TACK COAT (COSA SPEC)	GAL	17
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	138
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	170
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS (COSA SPEC)	SY	26
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	298
818	8" PVC WATERLINE (FULLY RESTRAINED) (ALL DEPTHS)	LF	298
824	RELAY 3/4" SERVICE (SHORT)	EA	5
824	RELAY 3/4" SERVICE (LONG)	EA	5
824	CUSTOMER SHUT-OFF VALVE W/BOX	EA	10
828	8" GATE VALVE	EA	1
833	NEW METER BOX	EA	10
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	10
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.3
840	8" WATER TIE-IN	EA	2
844	2" BLOW-OFF, TEMPORARY	EA	1
3000	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	LF	39



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
TBP REGISTRATION NO: F-2614

LEGEND			
PROP. WATER MAIN			
EXIST. WATER MAIN			
GAS MAIN			
SANITARY SEWER			
STORM SEWER			
UTILITY POLE LINE			
OVER HEAD UTILITY			
EXIST. RIGHT OF WAY			
PROPERTY LINES			
EXIST. EDGE OF PAVEMENT (EOP)			
EXIST. TREES			
DRIVEWAY & SIDEWALK REPAIR			
AIR RELEASE VALVE			
UNMETERED SERVICE:			
3/4"			
1" OR LARGER			
SERVICE RELAY:			
3/4"			
1" OR LARGER			
RELAY METER			

REVISIONS			
1	ADDENDUM NO. 1	TRM	AJW 8/19/20
NO.	REVISION	DRAWN	APPROVED DATE

SAWS 2021 SMP PKG V WATER IMPROVEMENTS
DELAWARE ST STA 107+50 TO STA POE

DEVELOPER: **Lockwood, Andrews & Newnam, Inc.**
CONT. **BUDGET PROJ.**

SUBMITTED: _____
APPROVED: _____

MAP NO. 168572 - 176556
SECT. NO. _____
DR. TRM CK. AJW JOB NO. 20-5012

SHEET 12 OF 17

NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- PROPERTY LINES SHOWN ARE APPROXIMATE AND RIGHT-OF-WAY BOUNDARY LINE SHOWN IS APPARENT.
- THE EXISTENCE AND LOCATION OF UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE BASED ON THE AVAILABLE AS-BUILT DRAWINGS AND ARE NOT GUARANTEED TO BE ACCURATE.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS.
- CONTRACTOR SHALL CONNECT NEW SERVICE LINE RELAYS AND NEW METERS TO THE PROPOSED WATER MAIN AND SHALL ADJUST LOCATIONS OF WATER SERVICE LINES AND METER BOXES AS NEEDED TO AVOID PLACEMENT OF METER BOXES IN SIDEWALKS OR DRIVEWAYS. ANY YARD PIPING REQUIRED SHALL BE SUBSIDIARY TO THE SERVICE RELAY (NSPI).
- CONTRACTOR TO VERIFY SERVICE TAP LOCATION TO LOT PRIOR TO RELAYING SERVICES AND NOTIFY ENGINEER AND SAWS.
- CONTRACTOR SHALL MAKE TIE-IN TO THE EXISTING WATER SYSTEM AS REQUIRED OR DIRECTED BY ENGINEER OR SAWS. CONTRACTOR SHALL VERIFY EXISTING LINE ELEVATION PRIOR TO TIE-IN.
- CONTRACTOR SHALL SET VALVES TO FINAL FINISHED GRADE.
- PROPOSED WATER MAINS (ALL SIZES AND LENGTHS) SHALL BE FULLY RESTRAINED AND MATERIAL SHALL BE C-900 PVC. CONTRACTOR SHALL COMPLETE RESTRAIN LENGTHS PER SAWS SPECIFICATION 839 (NSPI)
- CONTRACTOR SHALL USE EXTREME CAUTION AND CARE AND HAND DIG WHEN UNCOVERING UTILITIES DESIGNATED BY CAUTION LOCATE CROSSING STAR IN PLANS. SEE DETAIL 4, SHEET 16 FOR TYPICAL UTILITY CROSSING DETAIL.

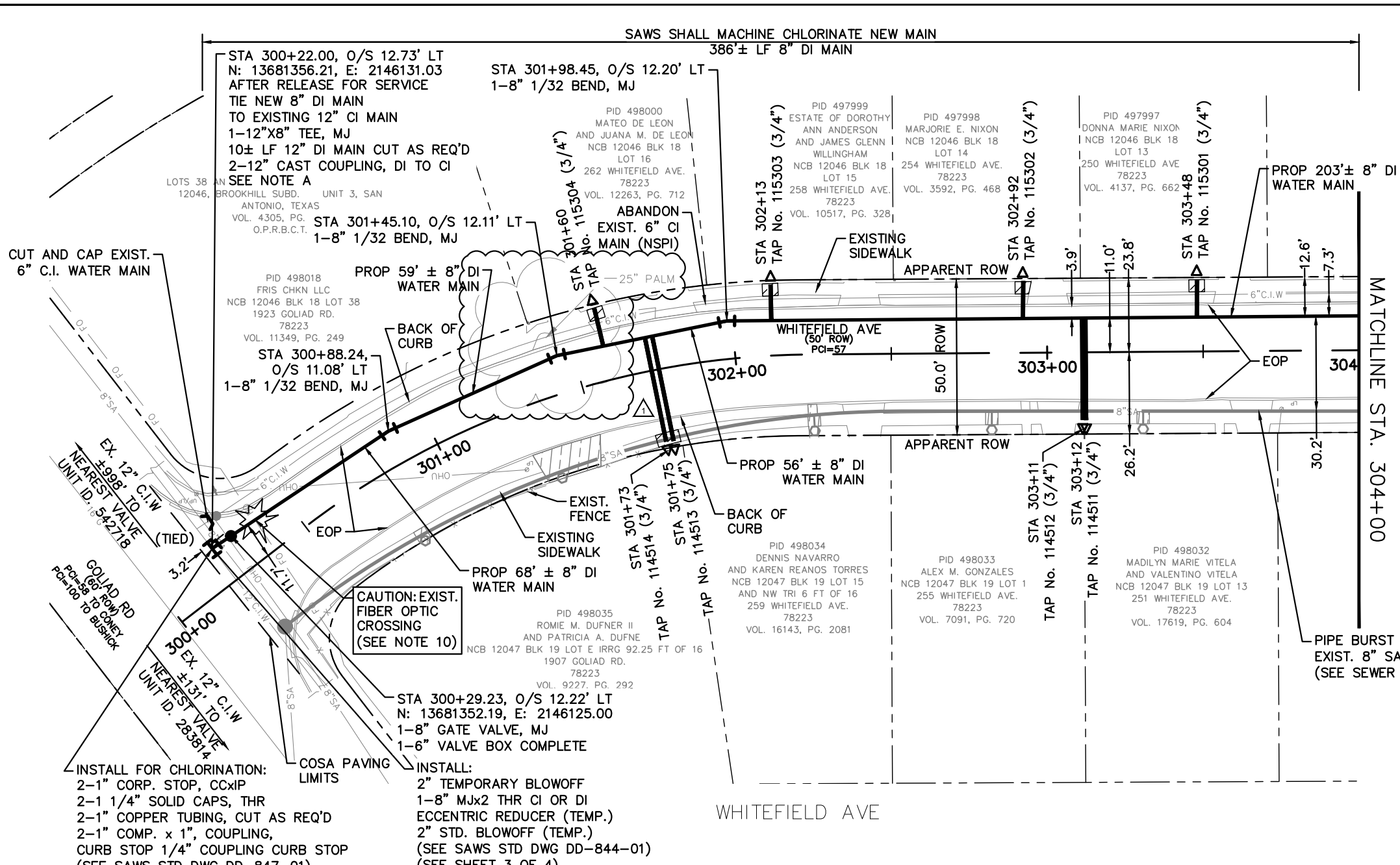
- CONTRACTOR TO TAKE CAUTION WHEN CONSTRUCTING NEAR EXISTING POWER POLES. WHENEVER POWER/TEL. POLES ARE (< 5') FROM OUTSIDE OF POLE TO TRENCH OF UTILITY CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH CPS TO PROVIDE PROPER SHORING, BRACING, AND/OR OTHER SUITABLE SUPPORT FOR THE POLES DURING CONSTRUCTION (NSPI).
- PRIOR TO TIE-IN'S, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-IN'S; THIS IS AT NO ADDITIONAL COST TO SAWS OR PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. CONTRACTOR SHALL COORDINATE ACTIVITIES DURING NON-PEAK USAGE HOURS.
- SAWS INSPECTOR TO DETERMINE FIRE HYDRANT'S FINAL LOCATION FROM PROP EDGE OF PAVEMENT, IN CASE OF CONFLICTS WITH SURROUNDING FEATURES.
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- FOR AREAS THAT INCLUDE BOTH WATER AND SEWER IMPROVEMENTS WHERE DRIVEWAYS AND SIDEWALKS ARE CALLED TO BE REMOVED AND REPLACED, SEE SEWER PLANS.
- TREES FOUND ON PRIVATE PROPERTY WITH BRANCHES THAT OVERHANG ONTO PUBLIC ROW, WHERE IDENTIFIED, MAY REQUIRE TRIMMING, PRUNING, AND ROOT PROTECTION FOR CONSTRUCTION AND SHALL FOLLOW APPROVED TREE PERMIT (NSPI). REFER TO SHEET 17 FOR TREE PROTECTION DETAILS AND NOTES.
- SURVEY PREPARED BY MTR ENGINEERS, LLC DATED MAY 12, 2020.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES(S) IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

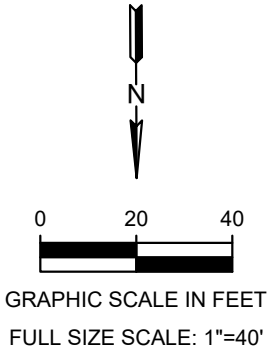
CALL C.P.S LOCATOR AT 227-3606, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

FILE: C-NP-WATR-PLAN.dwg PLOTTED: 8/19/2020 12:01 PM BY: MOHRE, TYLER



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	16
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	107
203.1	TACK COAT (COSA SPEC)	GAL	22
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	175
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	218
500.1	CONCRETE CURB (COSA SPEC)	LF	16
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	12
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	396
814	8" DUCTILE IRON PIPE	LF	386
814	12" DUCTILE IRON PIPE	LF	10
824	RELAY 3/4" SERVICE (SHORT)	EA	4
824	RELAY 3/4" SERVICE (LONG)	EA	4
824	CUSTOMER SHUT-OFF VALVE W/BOX	EA	8
828	8" GATE VALVE	EA	1
833	NEW METER BOX	EA	8
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	8
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.5
840	12" WATER TIE-IN	EA	2
841	HYDROSTATIC TESTING	EA	1
844	2" BLOW-OFF, TEMPORARY	EA	1

SITE SPECIFIC NOTES:
 A. CONTRACTOR IS TO PERFORM PROPOSED WATER MAIN TIE-IN AT THE INTERSECTION OF WHITEFIELD AVE AND GOLIAD RD AFTER BUSINESS HOURS AND COORDINATE IN ADVANCE WITH ANY BUSINESS OWNERS EFFECTED BY TEMPORARY SHUT-OFF FOR TIE-IN. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 48 HOURS PRIOR TO EXCAVATION AND WATER MAIN TIE-IN.



- NOTES:
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- SURVEY PREPARED BY MTR ENGINEERS, LLC DATED MAY 12, 2020.

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CALL C.P.S LOCATOR AT 227-3606, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

LEGEND			
PROP. WATER MAIN			
EXIST. WATER MAIN			
GAS MAIN			
SANITARY SEWER			
STORM SEWER			
UTILITY POLE LINE			
OVER HEAD UTILITY			
EXIST. RIGHT OF WAY			
PROPERTY LINES			
EXIST. EDGE OF PAVEMENT (EOP)			
EXIST. TREES			
DRIVEWAY & SIDEWALK REPAIR			
AIR RELEASE VALVE			
UNMETERED SERVICE:			
3/4"			
1" OR LARGER			
SERVICE RELAY:			
3/4"			
1" OR LARGER			
RELAY METER			

Lockwood, Andrews & Newnam, Inc.
 A LEO A DALY COMPANY
 TBPE REGISTRATION NO: F-2614

NO.	ADDENDUM NO. 1	TRM	AJW	8/19/20
1				

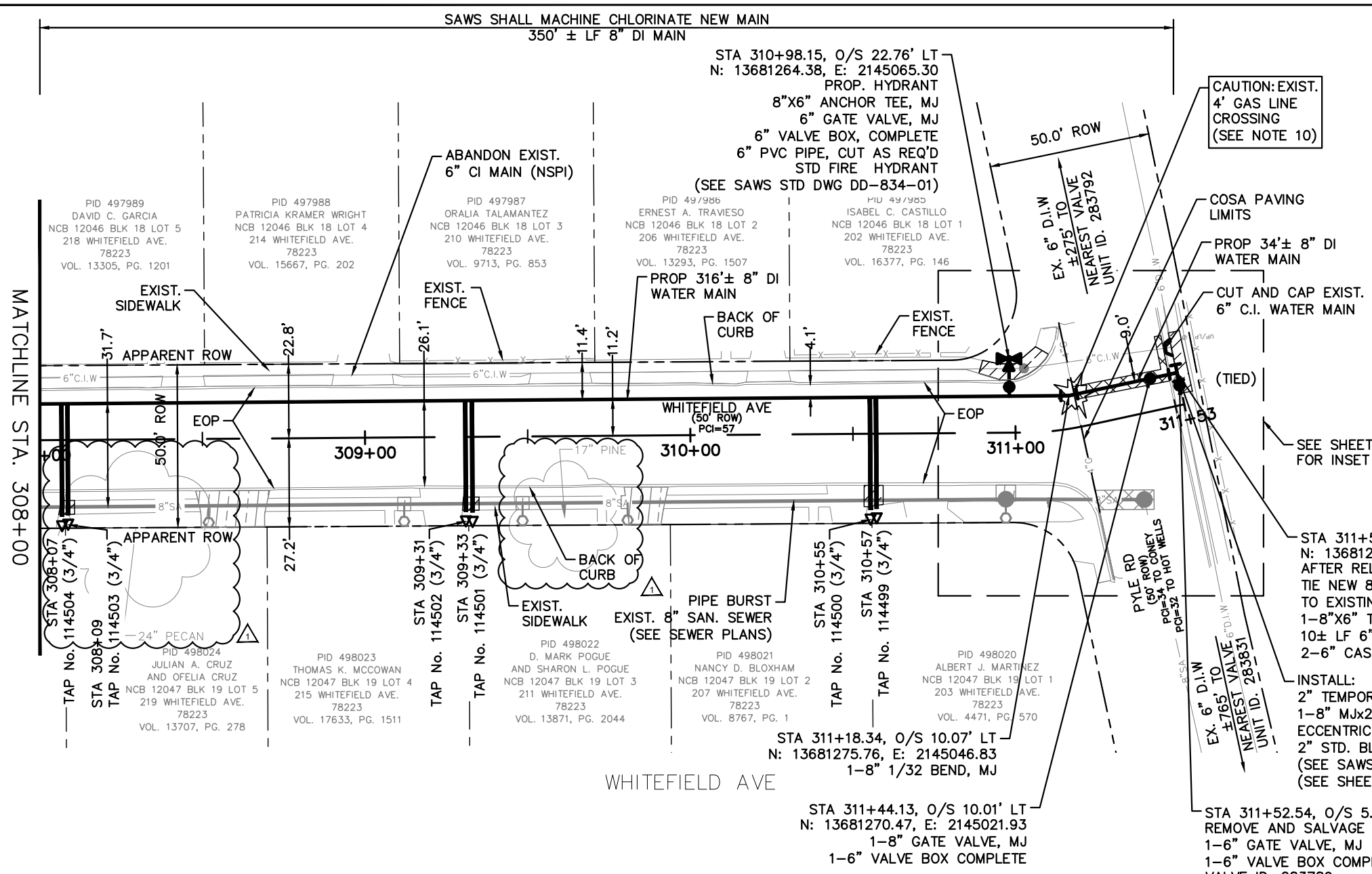
REVISIONS

DEVELOPER: **SAWS 2021 SMP PKG V WATER IMPROVEMENTS**
 CONT. **WHITEFIELD AVE STA 300+00 TO STA 304+00**

BUDGET PROJ.

MAP NO. 168572 - 176556
 SECT. NO. 13
 DR. TRM CK. AJW JOB NO. 20-5012 OF 17

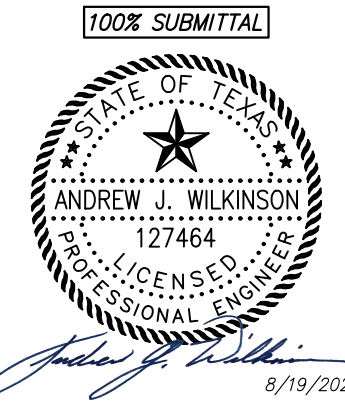
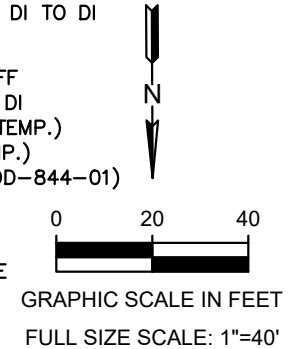
FILE: C-NP-WATR-PLAN.dwg PLOTTED: 8/19/2020 10:25 AM BY: MOHRE, TYLER



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	28
103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (COSA SPEC)	SF	243
203.1	TACK COAT (COSA SPEC)	GAL	22
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH) (COSA SPEC)	SY	179
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH) (COSA SPEC)	SY	218
500.1	CONCRETE CURB (COSA SPEC)	LF	28
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550	TRENCH EXCAVATION SAFETY PROTECTION	LF	360
814	6" DUCTILE IRON PIPE	LF	10
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824	RELAY 3/4" SERVICE (LONG)	EA	6
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833	NEW METER BOX	EA	6
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	6
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.4
840	6" WATER TIE-IN	EA	2
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STA 311+52.63, O/S 9.97' LT
 N: 13681268.70, E: 2145013.61
 AFTER RELEASE FOR SERVICE
 TIE NEW 8" DI MAIN
 TO EXISTING 6" DI MAIN
 1-8"x6" TEE, MJ
 10± LF 6" DI MAIN CUT AS REQ'D
 2-6" CAST COUPLING, DI TO DI

INSTALL:
 2" TEMPORARY BLOWOFF
 1-8" Mjx2 THR CI OR DI
 ECCENTRIC REDUCER (TEMP.)
 2" STD. BLOWOFF (TEMP.)
 (SEE SAWS STD DWG DD-844-01)
 (SEE SHEET 3 OF 4)



Lockwood, Andrews & Newnam, Inc.
 A LEO A DALY COMPANY
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GAS MAIN			
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	REVISION	DRAWN	APPROVED	DATE

REVISIONS	
	SAWS 2021 SMP PKG V WATER IMPROVEMENTS WHITEFIELD AVE STA 308+00 TO STA POE
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
MAP NO. 168572 - 176556	SHEET 15
SECT. NO.	OF 17
DR. TRM	CK. AJW
JOB NO. 20-5012	

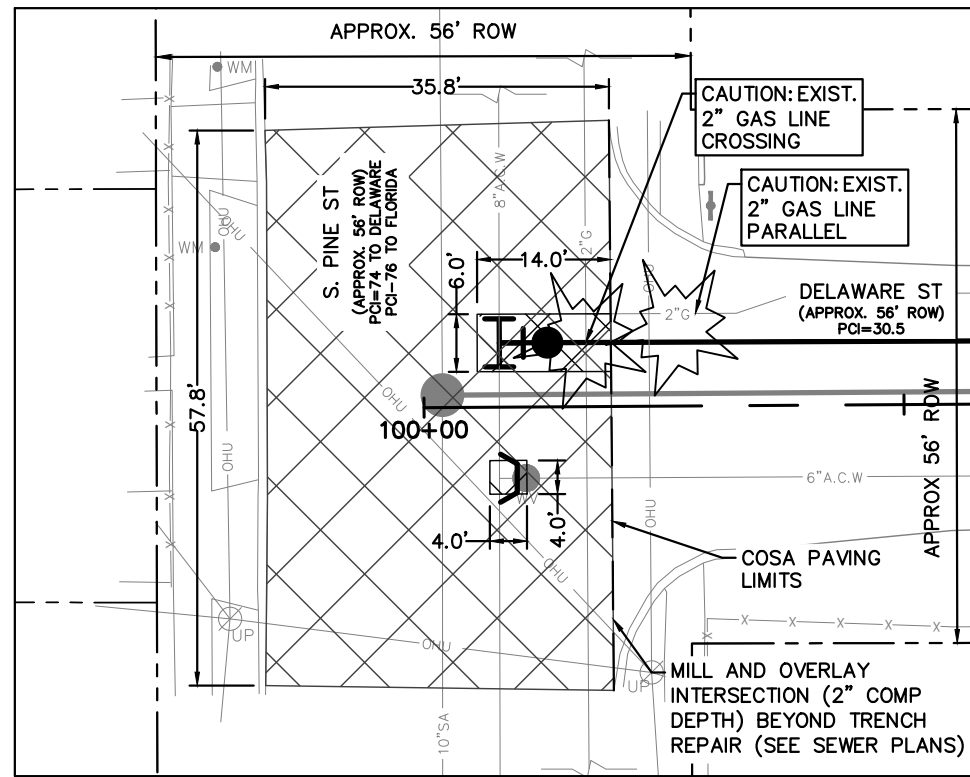
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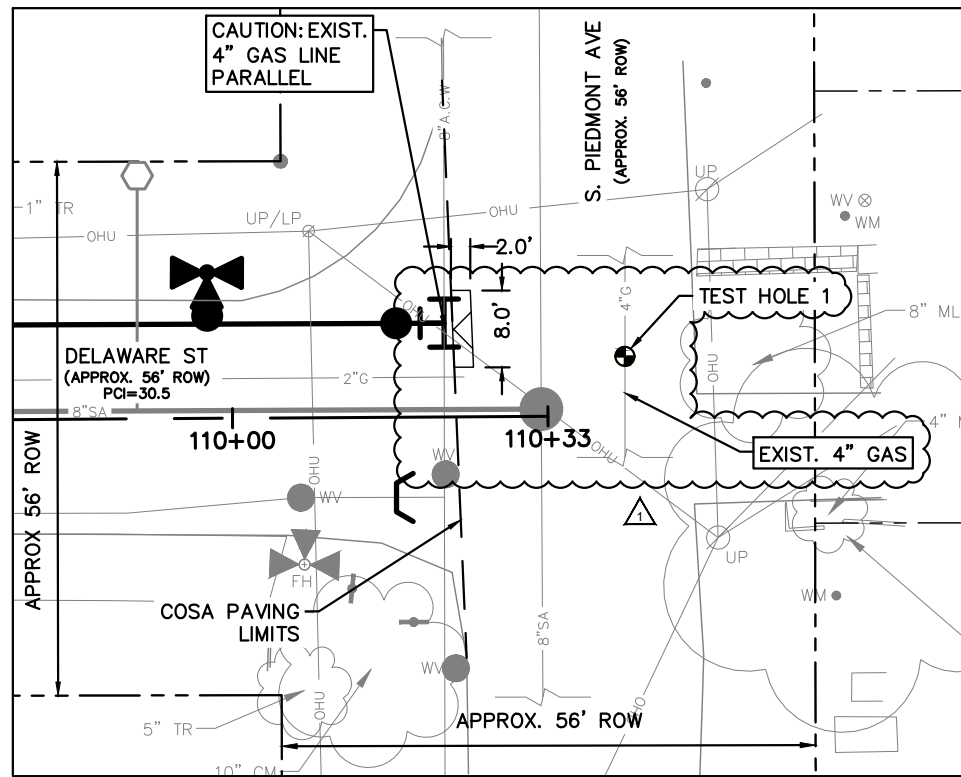
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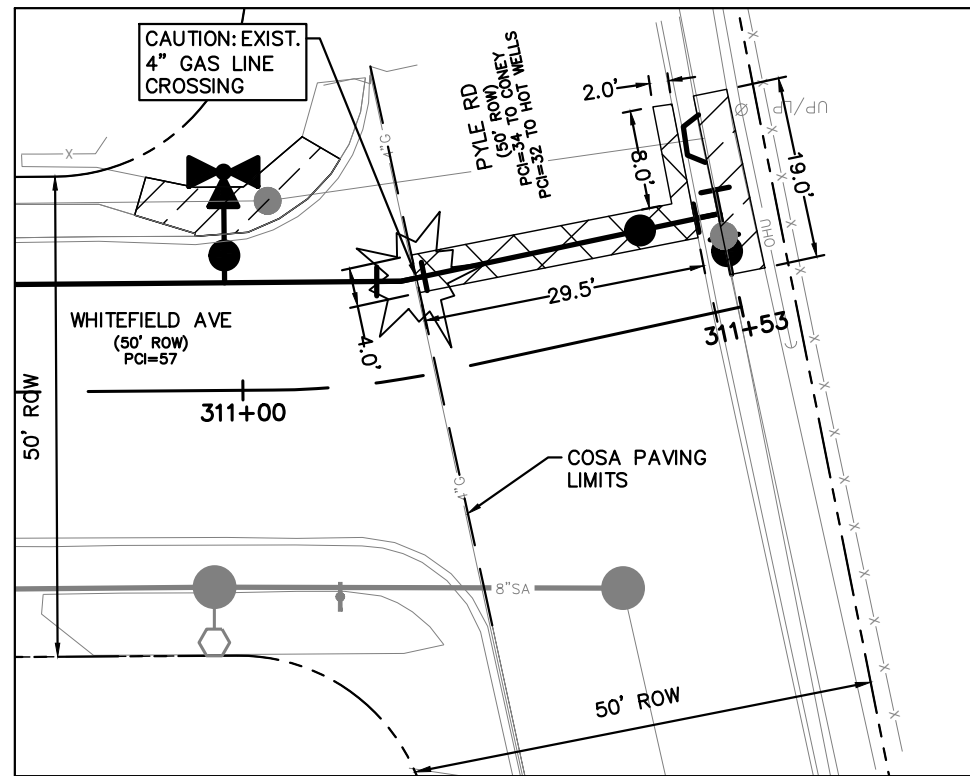
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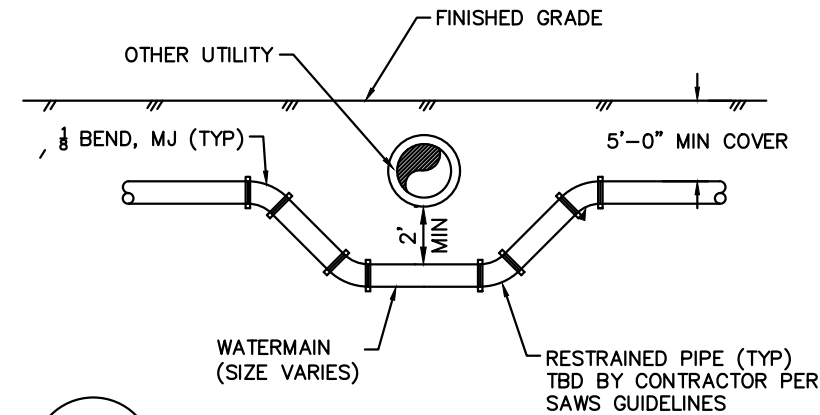
1
16 INSET A - DELAWARE ST AND PINE ST
SCALE: 1"=20'



2
16 INSET B - DELAWARE ST AND PIEDMONT AVE
SCALE: 1"=20'



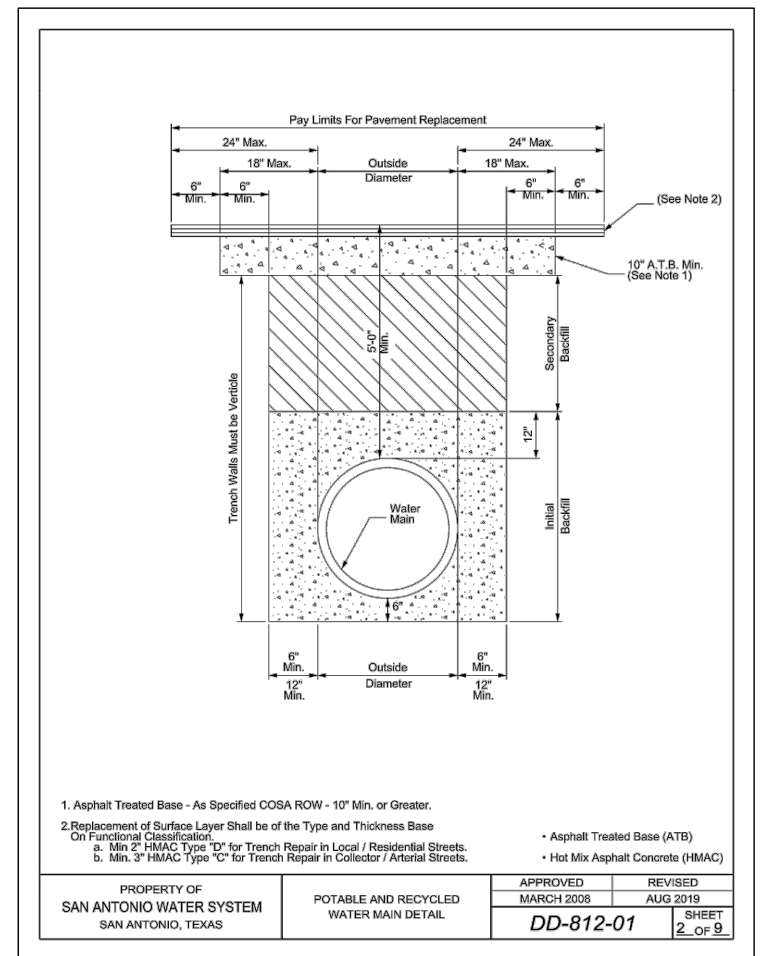
3
16 INSET C - WHITEFIELD AVE AND PYLE ST
SCALE: 1"=20'



4
16 TYPICAL UTILITY CROSSING DETAIL
SCALE: N.T.S.

ITEM DESCRIPTION	STA. W/ OFFSET	NORTHING, EASTING
1/32 BEND, MJ	104+56.90, 6.36' LT	N: 13696174.75, E: 2137615.14
1/32 BEND, MJ	104+67.79, 10.88 LT	N: 13696179.34, E: 2137626.00
CROSS, MJ	104+99.70, 10.79 LT	N: 13696179.44, E: 2137657.91
TIE-IN, 6" A.C.W.DREISS (S)	105+03.57, 19.34' RT	N: 13696149.34, E: 2137661.98
1/8 BEND, MJ	105+03.66, 14.85' RT	N: 13696153.84, E: 2137662.04
1/8 BEND, MJ	104+99.61, 10.69' RT	N: 13696157.97, E: 2137657.96
1/8 BEND, MJ	104+99.74, 21.10' LT	N: 13696189.75, E: 2137657.89
1/8 BEND, MJ	105+03.76, 24.99' LT	N: 13696193.67, E: 2137661.88
TIE-IN, 6" A.C.W.DREISS (N)	105+03.78, 29.46' LT	N: 13696198.14, E: 2137661.87

5
16 SHEET 11 HORIZONTAL ALIGNMENT DATA



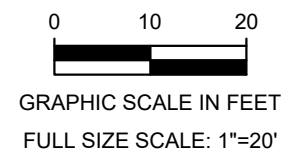
1. Asphalt Treated Base - As Specified COSA ROW - 10" Min. or Greater.
 2. Replacement of Surface Layer Shall be of the Type and Thickness Base On Functional Classification.
 a. Min 2" HMAAC Type "D" for Trench Repair in Local / Residential Streets.
 b. Min. 3" HMAAC Type "C" for Trench Repair in Collector / Arterial Streets.

Asphalt Treated Base (ATB)
 Hot Mix Asphalt Concrete (HMAC)

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS
 POTABLE AND RECYCLED WATER MAIN DETAIL

APPROVED MARCH 2008
 REVISED AUG 2019
 DD-812-01 SHEET 2 OF 9

6
16 WATERMAIN TRENCH DETAIL
SCALE: N.T.S.



LEGEND

PROP. WATER MAIN	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
OVER HEAD UTILITY	
EXIST. RIGHT OF WAY	
PROPERTY LINES	
EXIST. EDGE OF PAVEMENT (EOP)	
EXIST. TREES	
DRIVEWAY & SIDEWALK REPAIR	
AIR RELEASE VALVE	
UNMETERED SERVICE:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
RELAY METER	

100% SUBMITTAL

8/19/2020

Lockwood, Andrews & Newnam, Inc.
 A LEO A DALY COMPANY
 TBPE REGISTRATION NO: F-2614

1	ADDENDUM NO. 1	TRM	AJW	8/19/20
NO.	REVISION	DRAWN	APPROVED	DATE

REVISIONS

SAWS 2021 SMP PKG V
 WATER IMPROVEMENTS
 INTERSECTION INSETS AND DETAILS

DEVELOPER: CONT. BUDGET PROJ.
 SUBMITTED: _____
 APPROVED: _____
 MAP NO. _____
 SECT. NO. _____
 DR. TRM CK. AJW JOB NO. 20-5012 SHEET 16 OF 17

FILE: C-NP-WATR-PLAN.dwg PLOTTED: 8/19/2020 12:02 PM BY: MOHRE, TYLER