



**MULTIPLE SEWERSHED
PACKAGE 12 - OPEN CUT & PIPE BURSTING
SAWS Solicitation No. CO-00330
SAWS Job No. 18-4531**

**ADDENDUM 2
April 10, 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.

RESPONSE TO BIDDERS QUESTIONS

1. Question: **Will the Owner/Engineer please provide the budget for this project?**

Response: The budget for this project is posted on SAWS Contract Solicitations website for Solicitation No. CO-00330.

2. Question: **Will the Owner/Engineer please provide any previous itemized bid tabulations for projects of similar scope?**

Response: Previous itemized bid tabulations are available on SAWS website, under Contract Solicitations - Archive. It is the Contractor's sole responsibility to review bid tabs and plans for projects of similar scope.

3. Question: **Will the Owner/Engineer please provide a copy of the current plan holders list?**

Response: Copy of the current plan holders list is available on SAWS website, under Contract Solicitations website for Solicitation No. CO-00330.

4. Question: **Will the Owner/Engineer please provide the anticipated NTP date for this project?**

Response: The anticipated Notice-to-Proceed (NTP) is June 2020.

5. Question: **Will the Owner/Engineer please confirm if there are any prevailing wage requirements for this job?**

Response: The prevailing wage requirements are specified on the SAWS Contract Documents, under General Conditions - Article II. Legal Relationships and Responsibilities, section 2.10 "Prevailing Wage Rate and Labor Standard Provisions".

CHANGES TO THE SPECIFICATIONS

1. **INVITATION TO BIDDERS.** The last paragraph of the Invitation to Bidders is deleted in its 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 11:00 AM (CDT), April 17, 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. **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 **April 15 at 2:30 PM (CDT)** to receive access to the File Transfer Protocol (FTP) site via email to **Stella.Manzello@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 **April 15, 2020 by 2:30 (CDT)**.

2. **BID PACKET CHECKLIST.** The Bid Packet Checklist is hereby deleted in its entirety and replaced with the revised Bid Packet Checklist attached to this Addendum.
3. **SUPPLEMENTAL CONDITIONS.** Sections 1, 2, 4 and 24 of the Instructions to Bidders are hereby deleted in their entirety and replaced with the following:

"1. Bids will be submitted in accordance with the following:

- a. **Electronic bids will be received by Contract Administration in the SAWS secured File Transfer Protocol (FTP) site. Personal/hand delivered** sealed bids will be received by Contract Administration **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** at San Antonio Water System, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 141, San Antonio, Texas 78212. **All** bids will be received until the time specified in the Invitation to Bidders.
- b. If the submittal of a **hardcopy** sealed bid is by any means other than personal/hand delivery, then it is the bidder's sole responsibility to ensure the bid is delivered to San Antonio Water System, 2800 U.S. Hwy 281 North, San Antonio, Texas 78212, no later than the exact time specified in the Invitation to Bidders.
- c. All bids errantly submitted or delivered to a location other than the exact locations stated above will be returned/ **deleted** and unopened.
- d. All bids received after the exact time set for the bid opening in the Invitation to Bidders will be returned/ **deleted** and unopened.
- e. The San Antonio Water System Contracting Office may, at its sole discretion, without waiver of rights or authority, in equity or at law, return or delete any unopened bids not meeting the exact requirements as stated above.

2. Bids will be opened in accordance with the following:

- a. Bids will be opened **in a public WebEx meeting** and read aloud by a Contract Administration representative. Instruction on how to participate in this public WebEx meeting can be found in the Electronic Bid Opening Instructions.
- b. The lowest bid received at the time of the bid opening shall be designated as the "apparent low bid," whether announced in that manner or not, and shall not represent an acceptance of an offer.
- c. All bid results are unofficial, tentative and subject to verification on the day of the bid opening.
- d. No bid may be withdrawn after the scheduled bid opening time without the written consent of a Contract Administration representative.

- e. The “official” bid results will be tallied on a “bid tabulation sheet” and posted within 10 business days of the bid opening on the San Antonio Water System’s website.
4. **Electronic** bids submitted on the original bid form attached herein must be titled with the solicitation number, date and time of the bid opening, and the project name. **Hardcopy** bids submitted on the original bid form attached herein must be sealed in an envelope plainly marked on the outside with solicitation number, the date and time of the bid opening, and project name.
24. To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, the apparent low bidder must submit upon request the following items within one (1) day of the bid opening. Failure to provide the required information within the specific time, may result in determining a non-responsive bidder:
 - (a) An information packet on company showing experience, organization and equipment
 - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
 - (c) Record of performance on three (3) similar projects completed within the last 5 years including name of project, amount of project, project duration, name, address, and telephone number of contact person for each project.
 - (d) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
 - (e) **A completed Good Faith Effort Plan.**
 - (f) **Conflict of Interest Questionnaire - Form CIQ**
 - (g) **Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)**
 - (h) **For projects with a construction estimate of \$10,000,000 or greater:**
A complete financial statement for your organization that was prepared within the past 12 months, by an independent Certified Public Accountant, and a point of contact for your banking institution.

All other sections of the Instructions to Bidders shall remain the same.

4. Quantities on the Bid Tab have been updated to include decimals where pertinent.
5. The Unit of Measurement for Bid Item 801.3 has changed from Each (EA) to Linear Foot (LF).
6. Bid Item 801.1 has been replaced with Bid Item 801.2. Bid Item 801.2 and 801.3 have updated quantities.
7. Remove pages BP-1, BP-2, BP-3 and BP-4 and replace with BP-1R, BP-2R, BP-3R and BP-4R as included in this addendum.
8. Remove first and second paragraphs from Page SC-2. Replace with:

Project location 8 includes urgent assets. Contractor shall start with project location 8 and final completion of the urgent assets at this location shall be completed within 90 calendar days upon receipt of Notice-to-Proceed. Project locations 3 and 6 should be scheduled for construction last. Final completion of the project, including all project locations, shall be within **270** calendar days from the start date noted on the Notice-to-Proceed.
9. Remove entire section C. Right of Entry and Access from page SC-4. Replace with:

If access to a project location requires a Right-of-Entry (ROE), the Contractor will not commence construction activities at that location until the ROE agreement has been acquired by SAWS. The Contractor shall plan accordingly and include these project locations last within Contractor’s schedule.

ROE agreements include additional insurance requirements for Contractor. Contractor shall name the affected property owners as additional insured and provide a certificate evidencing coverage limits specified in each ROE agreement prior to beginning work on their property.
10. Remove entire section D. Construction Access and Staging Area from page SC-4.

CHANGES TO THE PLANS

1. **QUANTITY DISCRETION.** Quantities have been updated to include decimals where pertinent.
2. The Unit of Measurement for Bid Item 801.3 has changed from Each (EA) to Linear Foot (LF).
3. Bid Item 801.1 has been replaced with Bid Item 801.2.
4. Bid items 801.2 and 801.3 have updated quantities.
5. Remove the following and replace with attached sheets dated 4/8/2020:
 - "Overall Quantity Summary Sheet" sheet 8
 - "AM45 Compkey: 998900, 998068 Pipe Burst Plan Sheet" sheet 21
 - "AM45 Compkey: 998068, 1000254 Pipe Burst Plan Sheet" sheet 22
 - "AM45 Compkey: 1000254, 1011040, 998711 Pipe Burst Plan Sheet" sheet 23
 - "AO41 Compkey: 1057967 Open Cut Plan and Profile Sheet" sheet 24
 - "AT42 Compkey: 997434 Pipe Burst Plan Sheet" sheet 25
 - "BE29 & BH28 Compkey: 2758473, 1048916 Open Cut Plan and Profile Sheet" sheet 26
 - "BE31 Compkey: 1048481 Open Cut Plan and Profile Sheet" sheet 27
 - "BE31 Compkey: 1048481 Open Cut Plan and Profile Sheet" sheet 28
 - "W. Dickson Ave. Plan and Profile sheet 3 of 3" sheet 31
 - "W. Dickson Ave. Bypass Flow Data sheet 1 of 1" sheet 41
 - "W. Dickson Ave. Trench Details sheet 1 of 1" sheet 43
 - "AM45 (Desert View) Tree Preservation Plan" sheet 79
 - "AM45 (Desert View) Tree Preservation Plan" sheet 80
 - "AO41 Tree Preservation Plan" sheet 81
 - "AT42 Tree Preservation Plan" sheet 82

CLARIFICATIONS

1. To minimize travel and the need for Bidders to hand deliver bids during the COVID19 Emergency, SAWS has provided the option to Bidders to submit bids electronically. See the Electronic Bid Opening Instructions attached to this Addendum. Bidders may still hand deliver bids if they wish and as provided for in this Addendum, but shall only submit the items as indicated on the revised Bid Proposal Checklist in the initial bid packet. Reference the revised Bid Proposal Checklist attached to this Addendum.
2. If Bidders opt to submit their bids electronically, SAWS has provided the Excel version of the List of Bid Items file, which will be made available for download on the SAWS solicitation website. The List of Bid Items shall be accompanied by the Bid Proposal Signature Page and Proposal Certification page. Reference the revised Bid Proposal Checklist attached to this Addendum.
3. The public Bid Opening will be conducted on video via a WebEx meeting. See the Electronic Bid Opening Instructions attached to this Addendum.
4. The estimated cost for this project has changed to \$2,801,964.00, which is now reflected on SAWS website at the following link:
https://apps.saws.org/Business_Center/Contractsol/Drill.cfm?id=3767&View=Yes

END OF ADDENDUM

This Addendum, including this page, is twenty eight (28) pages with attachments in its entirety.

Attachments: Electronic Bid Opening Instructions (2 pages total)
 Bid Packet Checklist (1 page total)
 Bid Proposal (4 pages total)
 Updated Plan Sheets (16 sheets total)



Elaiza Alvarez
Lockwood, Andrews and Newnam, Inc. (LAN)



**Multiple Sewershed Package 12 – Open Cut & Pipe Bursting
Solicitation Number: CO-00330**

**ELECTRONIC BID OPENING INSTRUCTIONS
APRIL 17, 2020 AT 11:00 AM (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 **April 15, 2020 - 2:00 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 **April 15, 2020 at 2:00 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 **April 17, 2020 at 11:00 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.

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-00330 – Multiple Sewershed Package 12 – Open Cut & Pipe Bursting.**
- 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 your meeting from here:

When it's time, start your meeting from here:

[**Start the meeting**](#)

Access Information

Meeting Number:

996 756 925

Password:

Co-00330

Audio Connection

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

BID PACKET CHECKLIST
Multiple Sewershed Package 12 – Open Cut & Pipe Bursting
SAWS Job No. 18-4531
SAWS Solicitation No. CO-00330

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

Items to be submitted Upon Request by SAWS from the Apparent Low Bidder within one (1) day of the bid opening:

- Completed Good Faith Effort Plan
- Conflict of Interest Questionnaire - Form CIQ (*Rev. 11/30/2015*)
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- Company Information Packet
- Statement regarding ability to complete the project
- W-9
- Statement of Bidder's Experience

***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 Invitations 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 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 **270** 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.

MULTIPLE SEWERSHED PACKAGE 12-OPEN CUT & PIPE BURSTING

SAWS JOB NO. 18-4531

BID PROPOSAL LINE ITEMS

APRIL 2020

ITEM NO.	SPEC NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL
1	103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	501		
2	103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF	6283.0		
3	103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF	2150.0		
4	200.1	FLEXIBLE BASE (6" COMP DEPTH) (COSA SPEC)	SY	240.0		
5	203.1	TACK COAT (COSA SPEC)	GAL	832.0		
6	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	1644.0		
7	205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (4" COMPACTED DEPTH) (COSA SPEC) (Dickson)	SY	10.0		
8	205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	4916.0		
9	205.5	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3" COMPACTED DEPTH) (COSA SPEC)	SY	3346.0		
10	208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	4916.0		
11	208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	4241.0		
12	209.1	CONCRETE PAVEMENT (6" DEPTH) (COSA SPEC)	SY	240.0		
13	413.1	FLOWABLE FILL (COSA SPEC)	CY	7.6		
14	500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	366		
15	500.4	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	135		
16	502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	382.6		
17	503.1	PORTLAND CEMENT CONCRETE DRIVEWAY - RESIDENTIAL (COSA SPEC)	SY	433.6		
18	503.2	PORTLAND CEMENT CONCRETE DRIVEWAY - COMMERCIAL (COSA SPEC)	SY	12.8		
19	506.1	CONCRETE RETAINING WALLS - COMB TYPE (COSA SPEC)	CY	0.7		
20	515.1	TOPSOIL (COSA SPEC)	CY	52.0		
21	516.1	BERMUDA SODDING (COSA SPEC)	SY	40.0		
22	516.2	ST. AUGUSTINE SODDING (COSA SPEC)	SY	409.0		
23	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Bright View)	LS	1		
24	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Chisolm Trail)	LS	1		
25	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Pansy Lane)	LS	1		
26	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce and 30th; Ceralvo and Balboa)	LS	2		
27	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce 19th - Minter)	LS	1		
28	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Dickson)	LS	1		
29	530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (DR-1091)	LS	1		
30	535.1	4 INCH WIDE YELLOW LINE (COSA SPEC)	LF	372		

MULTIPLE SEWERSHED PACKAGE 12-OPEN CUT & PIPE BURSTING

SAWS JOB NO. 18-4531

BID PROPOSAL LINE ITEMS

APRIL 2020

ITEM NO.	SPEC NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL
31	535.2	4 INCH WIDE WHITE LINE (COSA SPEC)	LF	164		
32	535.4	8 INCH WIDE WHITE LINE (COSA SPEC)	LF	945		
33	535.7	24 INCH WIDE WHITE LINE (COSA SPEC)	LF	100		
34	535.8	RIGHT WHITE ARROW (COSA SPEC)	EA	2		
35	535.12	WORD "ONLY" (COSA SPEC)	EA	1		
36	535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY (COSA SPEC)	EA	4		
37	535.17	BICYCLE RIDER SYMBOL (COSA SPEC)	EA	4		
38	537.6	PAVEMENT MARKER (TYPE I-C) (COSA SPEC)	EA	7		
39	550	TRENCH EXCAVATION SAFETY PROTECTION	LF	927		
40	801.2	LEVEL IIA PROTECTIVE FENCING	LF	254		
41	801.3	LEVEL IIB PROTECTIVE FENCING	LF	53		
42	848	8" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (0'-6' DEPTH)	LF	192		
43	848	12" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (0'-6' DEPTH)	LF	8		
44	848	8" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (6'-14' DEPTH)	LF	641		
45	848	10" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (ALL DEPTHS)	LF	882		
46	848	8" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (>14' DEPTH)	LF	25		
47	848	8" HDPE GRAVITY SEWER PIPE (DR 11), (6'-14' DEPTH)	LF	41		
48	848	12" HDPE GRAVITY SEWER PIPE (DR 11), (>14' DEPTH)	LF	20		
49	852	SANITARY SEWER MANHOLE (0'-6' DEPTH)	EA	14		
50	852	EXTRA DEPTH MANHOLE (>6' DEEP)	VF	55.8		
51	852	SANITARY SEWER MANHOLE (0'-6' DEPTH) (DROP MH)	EA	2		
52	854	SANITARY SEWER LATERALS (PVC - ASTM D2241, SDR-26, 160 PSI)	LF	318		
53	854	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	29		
54	855	RECONSTRUCTION OF EXISTING MANHOLE	EA	3		
55	856	16" STEEL CASING	LF	57		
56	858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	98.4		
57	SS 862	ABANDONMENT OF SEWER MAINS	LF	486		
58	864-S1	BYPASS PUMPING (BRIGHT VIEW)	LS	1		
59	864-S1	BYPASS PUMPING (CHISOLM TRAIL)	LS	1		
60	864-S1	BYPASS PUMPING (PANSY LANE)	LS	1		
61	864-S1	BYPASS PUMPING (COMMERCE AND 30TH; CERALVO AND BALBOA)	LS	2		
62	864-S1	BYPASS PUMPING (COMMERCE 19TH - MINTER)	LS	1		
63	864-S1	BYPASS PUMPING (DICKSON)	LS	1		
64	864-S1	BYPASS PUMPING (DR-1091)	LS	1		
65	866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	2139		

MULTIPLE SEWERSHED PACKAGE 12-OPEN CUT & PIPE BURSTING

SAWS JOB NO. 18-4531

BID PROPOSAL LINE ITEMS

APRIL 2020

ITEM NO.	SPEC NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL
66	866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	1809		
67	900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	1261		
68	SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASEMENT)	VF	43.8		
69	1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	17		
70	1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, > 5 LF OF LATERAL)	EA	16		
71	SS 3300	SANITARY SEWER PRIVATE LATERALS (4"-6")	LF	720		
72	SS 9001	LANDSCAPE RESTORATION	LS	1		
73	SS 9003	SIGN REPLACEMENT	LS	1		
74	160	TOPSOIL (TXDOT SPEC)	CY	17.0		
75	162	BLOCK SODDING (TXDOT SPEC)	SY	305.0		
76	804	PLANT CRAPE MYRTLE TREE (2'-3' HIGH) (COSA SPEC)	EA	2		
77	804	PLANT CRAPE MYRTLE TREE (6' HIGH) (COSA SPEC)	EA	2		
78	804	PLANT CRAPE MYRTLE TREE (8' HIGH) (COSA SPEC)	EA	2		
79	804	PLANT CRAPE MYRTLE TREE (10' HIGH) (COSA SPEC)	EA	2		
80	401	FLOWABLE FILL (TXDOT SPEC)	CY	86.0		
81	502	BARRICADES, SIGNS AND TRAFFIC HANDLING (DR-1091) (TXDOT SPEC)	LS	1		
82	506-6020	CONSTRUCTION EXITS (INSTALL) (TY1) (TXDOT SPEC)	SY	78.0		
83	506-6024	CONSTRUCTION EXITS (REMOVE) (TXDOT SPEC)	SY	78.0		
84	506-6038	TEMP SDMT CONT FENCE (INSTALL) (TXDOT SPEC)	LF	146		
85	506-6039	TEMP SDMT CONT FENCE (REMOVE) (TXDOT SPEC)	LF	146		
SUBTOTAL (ITEMS 1-85)						
86	100	MOBILIZATION AND DEMOBILIZATION (MAX 10% OF LINE ITEMS 1-85)	LS	1		\$
87	101	PREPARATION OF RIGHT OF WAY (MAX 5% OF LINE ITEMS 1-85)	LS	1		\$

Mobilization and Prep ROW shall be limited to the maximum percentage shown. If the percentage exceeds the allowable maximum stated for the mobilization and or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.

TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1-85 AND 86-87)						\$
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10:32:28 PM

4/9/2020

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ESTIMATED QUANTITIES		SHT. 21 AM45 (DESERT VIEW)			SHT. 22	SHT. 23	SHT. 24	SHT. 25	SHT. 26	SHT. 27	SHT. 28	SHT. 29	SHT. 30	SHT. 31	SHT. 32	SHT. 33	SHT. 34	SHT. 62	SHT. 91	TOTAL	
ITEM	DESCRIPTION	UNIT	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	EST. QTY	QTY	
100	MOBILIZATION	LS																			1
101	PREPARATION OF RIGHT OF WAY	LS																			1
103.J	REMOVE CONCRETE CURB (COSA SPEC)	LF			10	140	20			40	30	65						135		501	
103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF				206.0	155.0			130.0	96.0	2478.0	2767.0	451.0						6283.0	
103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF																2150.0		2150.0	
160	TOPSOIL (TXDOT SPEC)	CY																	17.0	17.0	
162	BLOCK SODDING (TXDOT SPEC)	SY																	305.0	305.0	
200.J	FLEXIBLE BASE (6" COMP DEPTH) (COSA SPEC)	SY																240.0		240.0	
203.J	TACK COAT (COSA SPEC)	GAL			2.0	440.0	16.5	112.0	140.5	95.0			26.0							832.0	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY			6.0	86.0	8.0	7.0	1405.0	135.0										1644.0	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (4" COMPACTED DEPTH) (COSA SPEC) (Dickson)	SY											10.0							10.0	
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY			14.0	4380.0	165.0	94.0					263.0							4916.0	
205.5	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3" COMPACTED DEPTH) (COSA SPEC)	SY						106.0	1405.0	925.0										4346.0	
208.J	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY			14.0	4380.0	165.0	94.0					263.0							4916.0	
208.J	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY						1016.0	2300.0	925.0										4241.0	
209.J	CONCRETE PAVEMENT (6" DEPTH) (COSA SPEC)	SY																240.0		240.0	
401	FLOWABLE FILL (TXDOT SPEC)	CY													8.0	54.0	24.0			86.0	
413.J	FLOWABLE FILL (COSA SPEC)	CY				6.6	1.0													7.6	
500.J	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF			10	140	20			40	30	65		61						366	
500.4	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF																135.0		135.0	
502	BARRICADES, SIGNS AND TRAFFIC HANDLING (DR-1091) (TXDOT SPEC)	LS																	1.0	1.0	
502.J	CONCRETE SIDEWALKS (COSA SPEC)	SY				11.0	8.0		24.9	18.7	130.0	141.0	49.0							382.6	
503.J	PORTLAND CEMENT CONCRETE DRIVEWAY - RESIDENTIAL (COSA SPEC)	SY				12.0			90.2	17.3	147.0	167.0								433.6	
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY - COMMERCIAL (COSA SPEC)	SY					9.0		3.8											12.8	
506.J	CONCRETE RETAINING WALLS - COMB TYPE (COSA SPEC)	CY									0.4		0.3							0.7	
515.1	TOPSOIL (COSA SPEC)	CY				5.0				18.0	21.0	8.0								52.0	
516.1	BERMUDA SODDING (COSA SPEC)	SY				40.0														40.0	
516.2	ST. AUGUSTINE SODDING (COSA SPEC)	SY									159.0	183.0	67.0							409.0	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Bright View)	LS			1															1	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Chisolm Trl)	LS					1													1	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Pansy Lane)	LS						1												1	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce and 30th; Ceralvo and Balboa)	LS							2											2	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce 19th - Minter)	LS									1									1	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Dickson)	LS										1								1	
530.J	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (DR-1091)	LS													1					1	
535.1	4 INCH WIDE YELLOW LINE (COSA SPEC)	LF							180									192		372	
535.12	WORD "ONLY" (COSA SPEC)	EA								1										1	
535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY (COSA SPEC)	EA								2	2									4	
535.17	BICYCLE RIDER SYMBOL (COSA SPEC)	EA								2	2									4	
535.2	4 INCH WIDE WHITE LINE (COSA SPEC)	LF							44	65	55									164	
535.4	8 INCH WIDE WHITE LINE (COSA SPEC)	LF							100	490	355									945	
535.7	24 INCH WIDE WHITE LINE (COSA SPEC)	LF								100										100	
535.8	RIGHT WHITE ARROW (COSA SPEC)	EA								2										2	
537.6	PAVEMENT MARKER (TYPE I-C) (COSA SPEC)	EA							7											7	
550	TRENCH EXCAVATION SAFETY PROTECTION	LF				192		17	300	307					20	91				927	
801.2	LEVEL IIA PROTECTIVE FENCING	LF		30	25	175	24													254	
801.3	LEVEL IIB PROTECTIVE FENCING	LF		6	7	20	20													53	
804	PLANT CRAPE MYRTLE TREE (2'-3' HIGH) (COSA SPEC)	EA										2								2	
804	PLANT CRAPE MYRTLE TREE (6' HIGH) (COSA SPEC)	EA											2							2	
804	PLANT CRAPE MYRTLE TREE (8' HIGH) (COSA SPEC)	EA											2							2	
804	PLANT CRAPE MYRTLE TREE (10' HIGH) (COSA SPEC)	EA											2							2	
848	8" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI, (0'-6' DEPTH)	LF				192														192	
848	12" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI, (0'-6' DEPTH)	LF							8											8	
848	8" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI), (6'-14' DEPTH)	LF							9	300	307						25			641	
848	10" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI), (ALL DEPTHS)	LF									364	400	118							882	
848	8" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI), (>14' DEPTH)	LF															25			25	
848	8" HDPE GRAVITY SEWER PIPE (DR II), (6'-14' DEPTH)	LF														41				41	
848	12" HDPE GRAVITY SEWER PIPE (DR II), (>14' DEPTH)	LF														20				20	
852	SANITARY SEWER MANHOLE (0'-6' DEPTH)	EA			1.0	2.0		1.0	2.0	2.0	2.0	1.0	2.0				1.0			14.0	
852	EXTRA DEPTH MANHOLE (>6' DEEP)	VF			1.5			2.7	9.5	8.5						17.4	16.2			55.8	
852	SANITARY SEWER MANHOLE (0'-6' DEPTH) (DROP MH)	EA																		2	
854	SANITARY SEWER LATERALS (PVC - ASTM D224I, SDR-26, 160 PSI)	LF				70			88	53	42	54	12							318	
854	TWO-WAY SANITARY SEWER CLEAN-OUT	EA				3			5	5	7	9	2							29	
855	RECONSTRUCTION OF EXISTING MANHOLE	EA		1					2											3	
856	16" STEEL CASING	LF								57.0										57.0	
858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY				1.4					38.0	42.0	13.0			4.0				98.4	
866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	300	400	329		232				360	400	118							2139	
866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF				192		17	300	307	364	400	118			20	91			1809	
900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	300	400	329		232													1261	
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	4	6	4		3													17	
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, > 5 LF OF LATERAL)	EA	4	6	4		2													16	
506-6020	CONSTRUCTION EXITS (INSTALL) (TYI) (TXDOT SPEC)	SY																	78.0	78.0	
506-6024	CONSTRUCTION EXITS (REMOVE) (TXDOT SPEC)	SY																		78.0	78.0
506-6038	TEMP SDMT CONT FENCE (INSTALL) (TXDOT SPEC)	LF																	146	146	
506-6039	TEMP SDMT CONT FENCE (REMOVE) (TXDOT SPEC)	LF																	146	146	
864-SI	BYPASS PUMPING (Bright View)	LS			1															1	
864-SI	BYPASS PUMPING (Chisolm Trl)	LS				1														1	
864-SI	BYPASS PUMPING (Pansy Lane)	LS					1													1	
864-SI	BYPASS PUMPING (Commerce and 30th; Ceralvo and Balboa)	LS							2											2	
864-SI	BYPASS PUMPING (Commerce 19th - Minter)	LS									1									1	
864-SI	BYPASS PUMPING (Dickson)	LS										1								1	
864-SI	BYPASS PUMPING (DR-1091)	LS															1			1	
SS 3300	SANITARY SEWER PRIVATE LATERALS (4'-6")	LF							450	270										720	
SS 862	ABANDONMENT OF SEWER MAINS	LF								300	186									486	
SS 9001	LANDSCAPE RESTORATION	LS																		1	
SS 9003	SIGN REPLACEMENT	LS																		1	
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASEMENT)	VF	6.0	6.0	6.0		9.5	8.5	7.8											43.8	

4/8/20

100% SUBMITTAL

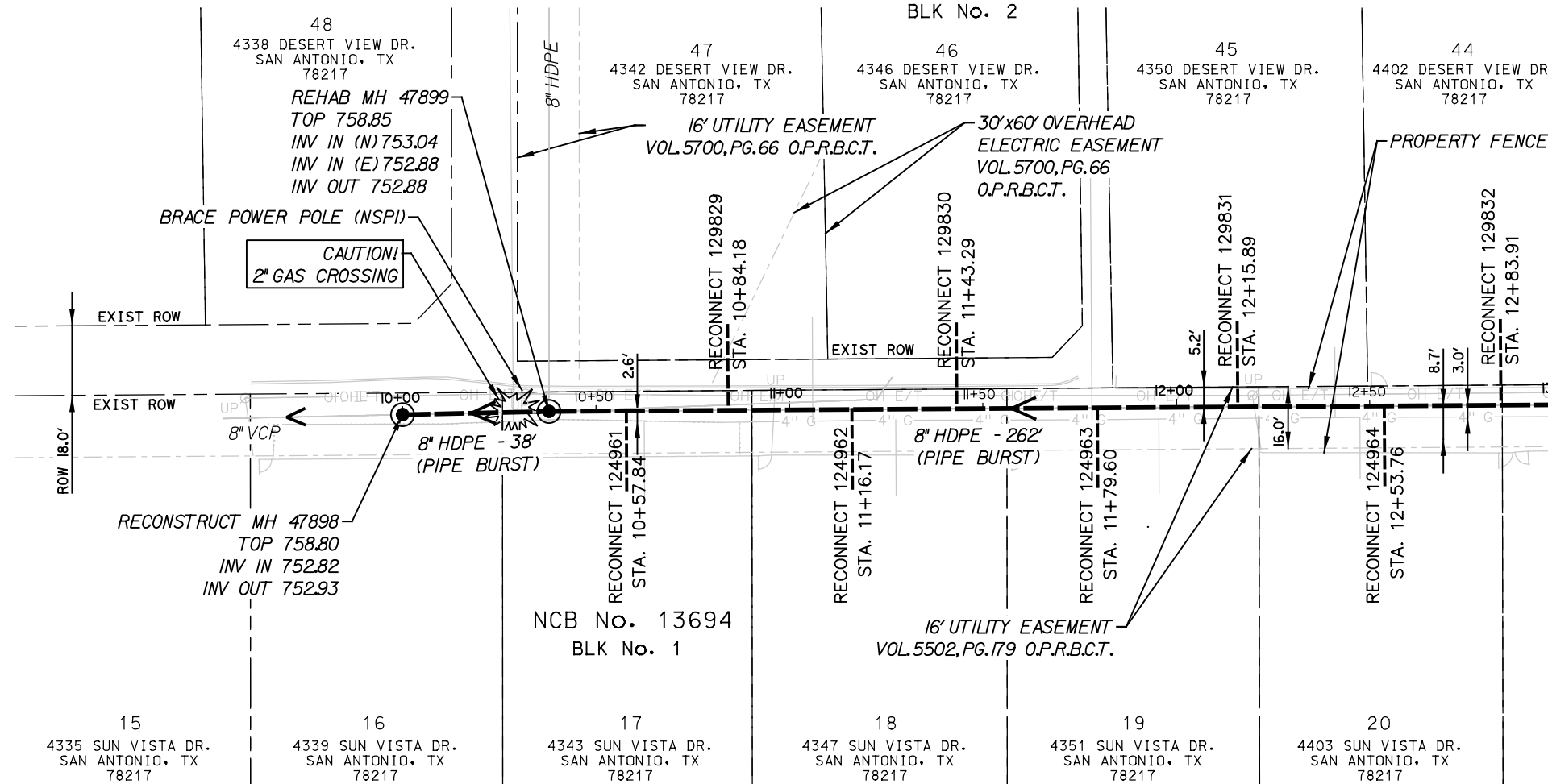
L&N Lockwood, Andrews & Newnam, Inc.
A LEAD A DAILY COMPANY
TBPE REGISTRATION NO: F-2614

No.	Revision	Drawn	Approved	Date
1	Addendum 2	MWS	EMA	4/8/20

REVISIONS

3 MULTIPLE SEWERSHD PKG 12
OPEN CUT & PIPE BURSTING
OVERALL

NCB No. 14060
BLK No. 2



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
855	RECONSTRUCTION OF EXISTING MANHOLE	EA	1
866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	300
900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	300
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASMENT)	VF	6.0
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	4
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, > 5 LF OF LATERAL)	EA	4

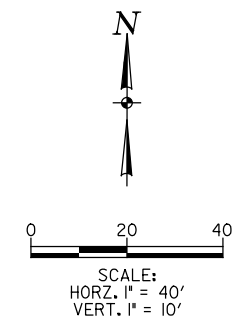
NOTES:

- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF OTHER UTILITIES DURING CONSTRUCTIONS (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS AS SHOWN BY AND IN ACCORDANCE WITH COSA'S TOP THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- CONTRACTOR TO PROTECT EXISTING SIGNS, PROVIDE TEMPORARY SIGNS, AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH REHABILITATION OF SEWER (NSPI). MANHOLES TO BE TESTED IN ACCORDANCE WITH SAWS REQUIREMENTS AND DOCUMENTED AS OUTLINED BY SAWS REGULATIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO SURFACE FEATURES (MANHOLES, CLEANOUTS, ETC.)
- LATERAL LOCATIONS SHOWN ON PLANS ARE FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
- CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 233-3500 AND ENGINEER OF RECORD (LAN) AT 499-5082 48 HOURS BEFORE ANY CONSTRUCTION TAKES PLACE, INCLUDING BUT NOT LIMITED TO:
 - NOTIFICATION OF PRE-TELEVISION INSPECTION
 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
- CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
- CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
- CONTRACTOR TO PROTECT EXISTING FENCES (NSPI).
- CONTRACTOR TO EXPOSE GAS SERVICES WHERE CROSSING SEWER MAIN

POLE BRACING NOTE:
CONTRACTOR TO CONTACT CPS FOR POLE BRACING UPON RECEIPT OF SAWS NTP

PROPERTY AND EASEMENT LINES NOTE:
PROPERTY LINES AND EASEMENT LINES ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS DATA (APPARENT ROW) AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.

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.



LEGEND	
PROP. SAN SEWER OPEN CUT	———
PROP. SAN SEWER PIPE BURST	———
EXIST. WATER MAIN	— 6" C.W. —
EXIST. GAS MAIN	— 2" G —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	— ● —
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	— - - - -

100% SUBMITTAL

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

AM45
MULTIPLE SEWERSHED PKG 12
OPEN CUT & PIPE BURSTING
PIPE BURST PLAN SHEET

DEVELOPER: []
CONT. [] BUDGET PROJ.

SUBMITTED []
APPROVED []

MAP No. 188616
SECT. No. []
DR. MRG [] CK. EMA [] JOB No. 18-4531

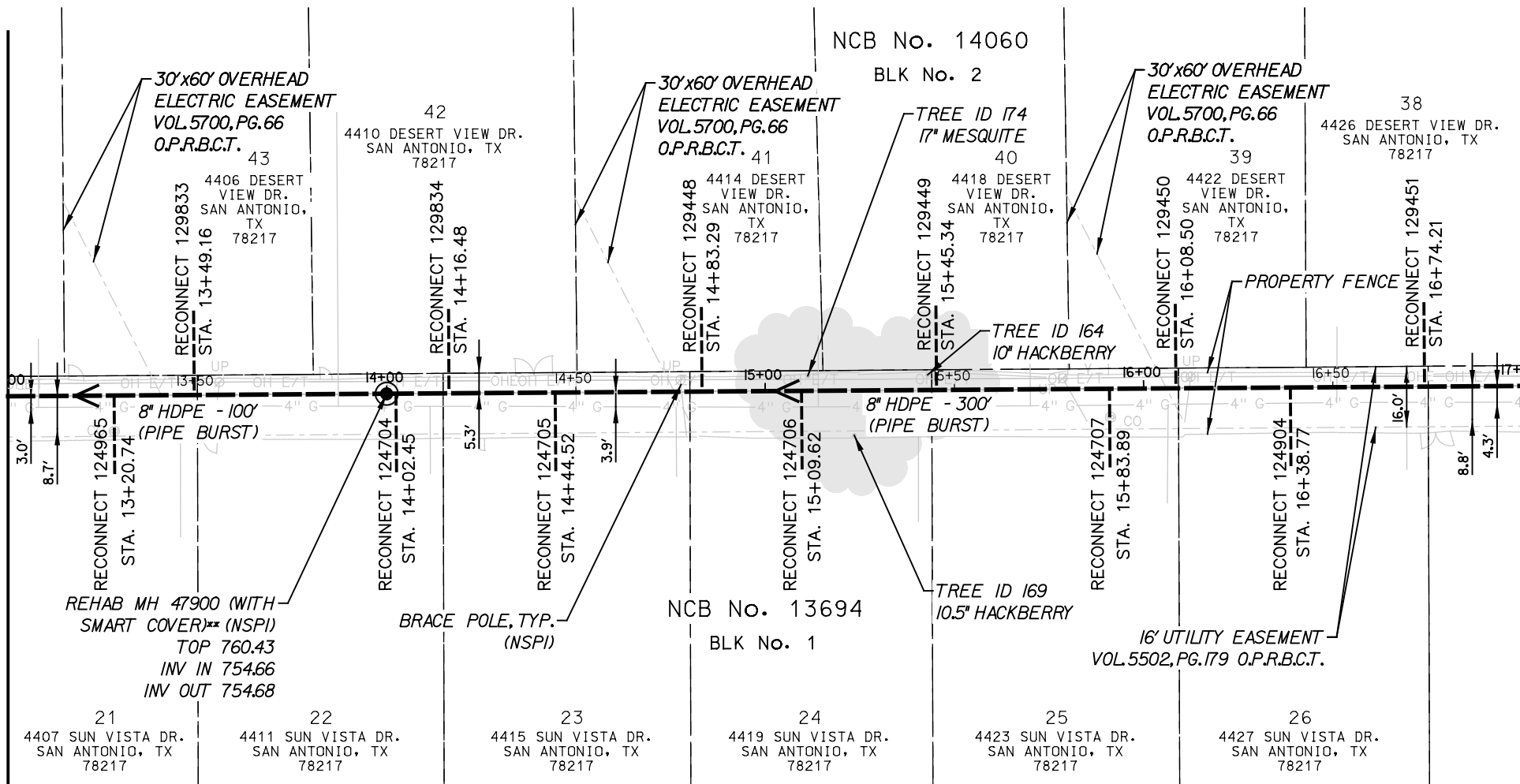
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AM45 MATCHLINE A

AM45 MATCHLINE B



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
801.2	LEVEL IIA PROTECTIVE FENCING	LF	30
801.3	LEVEL IIB PROTECTIVE FENCING	LF	6
866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	400
900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	400
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASEMENT)	VF	6.0
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	6
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, 5 LF OF LATERAL)	EA	6

NOTES:

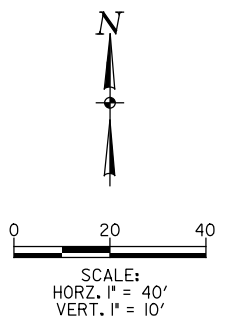
- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF OTHER UTILITIES DURING CONSTRUCTIONS (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS AS SHOWN BY AND IN ACCORDANCE WITH COSA'S TCP THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- CONTRACTOR TO PROTECT EXISTING SIGNS, PROVIDE TEMPORARY SIGNS, AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH REHABILITATION OF SEWER (NSPI). MANHOLES TO BE TESTED IN ACCORDANCE WITH SAWS REQUIREMENTS AND DOCUMENTED AS OUTLINED BY SAWS REGULATIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO SURFACE FEATURES (MANHOLES, CLEANOUTS, ETC.)
- LATERAL LOCATIONS SHOWN ON PLANS ARE FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
- CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 233-3500 AND ENGINEER OF RECORD (LAN) AT 499-5082 48 HOURS BEFORE ANY CONSTRUCTION TAKES PLACE, INCLUDING BUT NOT LIMITED TO:
 - NOTIFICATION OF PRE-TELEVISION INSPECTION
 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
- CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
- CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
- CONTRACTOR TO PROTECT EXISTING FENCES (NSPI).
- CONTRACTOR TO EXPOSE GAS SERVICES WHERE CROSSING SEWER MAIN

****SMART MANHOLE NOTE****
 CONTRACTOR TO CONTACT AMERICA ESPINOZA (210) 233-2934 OR JOE MARTINEZ (210) 233-3071 IN THE PROACTIVE PLANNING DEPT. MINIMUM 1 WEEK PRIOR TO CONSTRUCTION ON SMART MANHOLE COVER.

PROPERTY AND EASEMENT LINES NOTE:
 PROPERTY LINES AND EASEMENT LINES ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS DATA (APPARENT ROW) AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.

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.

POLE BRACING NOTE:
 CONTRACTOR TO CONTACT CPS FOR POLE BRACING UPON RECEIPT OF SAWS NTP



LEGEND	
PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	---
EXIST. WATER MAIN	— 6" C.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	—
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	---

100% SUBMITTAL

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

MULTIPLE SEWERSHED PKG 12 OPEN CUT & PIPE BURSTING
 AM45
 COMPKEY: 998068, 1000254
 PIPE BURST PLAN SHEET

DEVELOPER: [Signature]
 CONT. BUDGET PROJ.

SUBMITTED: _____
 APPROVED: _____

MAP No. 188616
 SECT. No. _____
 DR. MRG [CK, EMA] JOB No. 18-4531

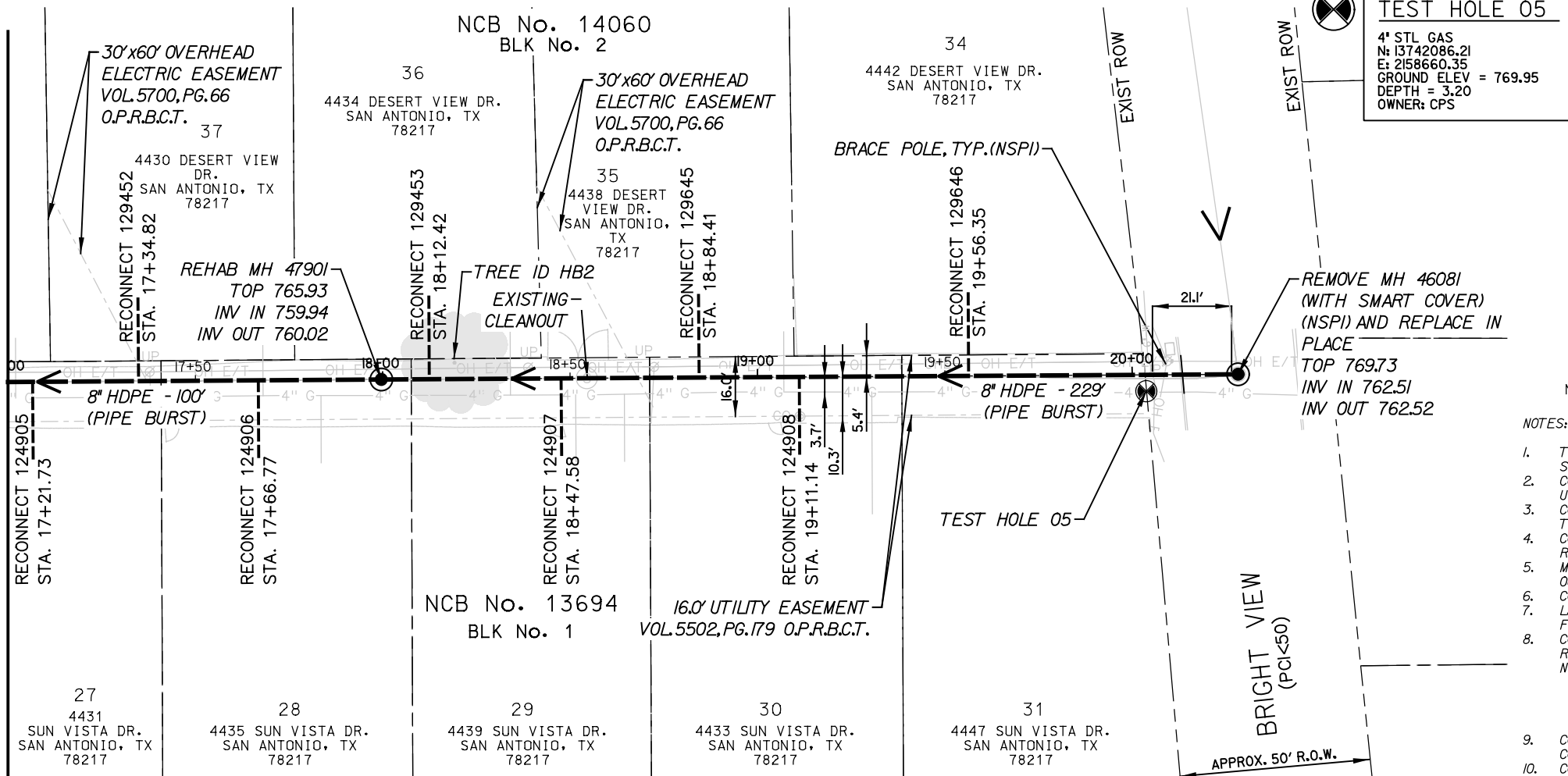
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AM45 MATCHLINE B



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	10
203.1	TACK COAT (COSA SPEC)	GAL	2.0
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	5.0
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	14.0
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	14.0
500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	10
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Bright View)	LS	1
801.2	LEVEL IIA PROTECTIVE FENCING	LF	25
801.3	LEVEL IIB PROTECTIVE FENCING	LF	7
852	SANITARY SEWER MANHOLE (0'-6' DEPTH)	EA	1
852	EXTRA DEPTH MANHOLE (2'-6" DEEP)	VF	1.5
864-SI	BYPASS PUMPING (Bright View)	LS	1
866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	329
900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	329
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASEMENT)	VF	6.0
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	4
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, > 5 LF OF LATERAL)	EA	4

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS

NOTES:

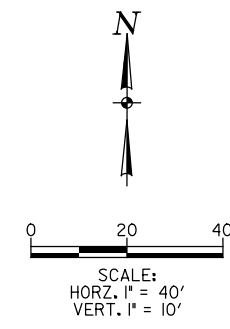
- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF OTHER UTILITIES DURING CONSTRUCTIONS (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS AS SHOWN BY AND IN ACCORDANCE WITH COSA'S TCP THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- CONTRACTOR TO PROTECT EXISTING SIGNS, PROVIDE TEMPORARY SIGNS, AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH REHABILITATION OF SEWER (NSPI).
- MANHOLES TO BE TESTED IN ACCORDANCE WITH SAWS REQUIREMENTS AND DOCUMENTED AS OUTLINED BY SAWS REGULATIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO SURFACE FEATURES (MANHOLES, CLEANOUTS, ETC.)
- LATERAL LOCATIONS SHOWN ON PLANS ARE FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
- CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 233-3500 AND ENGINEER OF RECORD (LAN) AT 499-5082 48 HOURS BEFORE ANY CONSTRUCTION TAKES PLACE. INCLUDING BUT NOT LIMITED TO:
 - NOTIFICATION OF PRE-TELEVISION INSPECTION
 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
- CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
- CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
- CONTRACTOR TO PROTECT EXISTING FENCES (NSPI)
- CONTRACTOR TO EXPOSE GAS SERVICES WHERE CROSSING SEWER MAIN

****SMART MANHOLE NOTE****
 CONTRACTOR TO CONTACT
 AMERICA ESPINOZA (210) 233-2934
 OR
 JOE MARTINEZ (210) 233-3071
 IN THE PROACTIVE PLANNING DEPT.
 MINIMUM 1 WEEK PRIOR TO CONSTRUCTION
 ON SMART MANHOLE COVER.

PROPERTY AND EASEMENT LINES NOTE:
 PROPERTY LINES AND EASEMENT LINES ARE
 SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS
 DATA (APPARENT ROW) AND SHOULD BE FIELD
 VERIFIED BY THE CONTRACTOR.

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.

POLE BRACING NOTE:
 CONTRACTOR TO CONTACT CPS
 FOR POLE BRACING UPON RECEIPT
 OF SAWS NTP



LEGEND

PROP. SAN SEWER OPEN CUT	---
PROP. SAN SEWER PIPE BURST	---
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	— ● —
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	---

100% SUBMITTAL

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

AM45
 MULTIPLE SEWERSHED PKG 12
 OPEN CUT & PIPE BURSTING
 COMPKEY: 1000254, 1011040, 998711
 PIPE BURST PLAN SHEET

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

SUBMITTED [Signature]
 APPROVED [Signature]

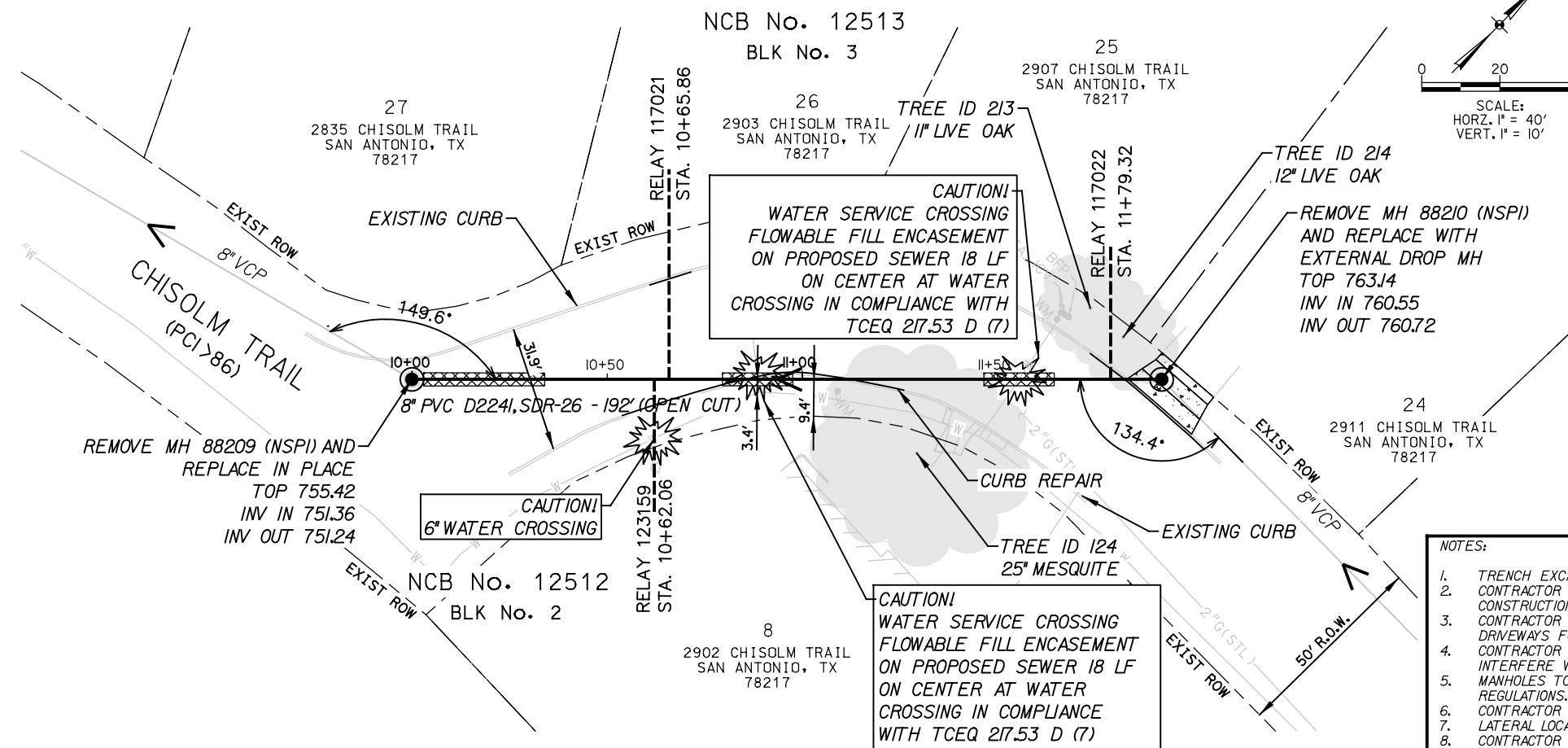
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 SECT. No. [Signature]
 DR. MRG [Signature] CK. EMA [Signature] JOB No. 18-4531

SHEET 23

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4/8/2020

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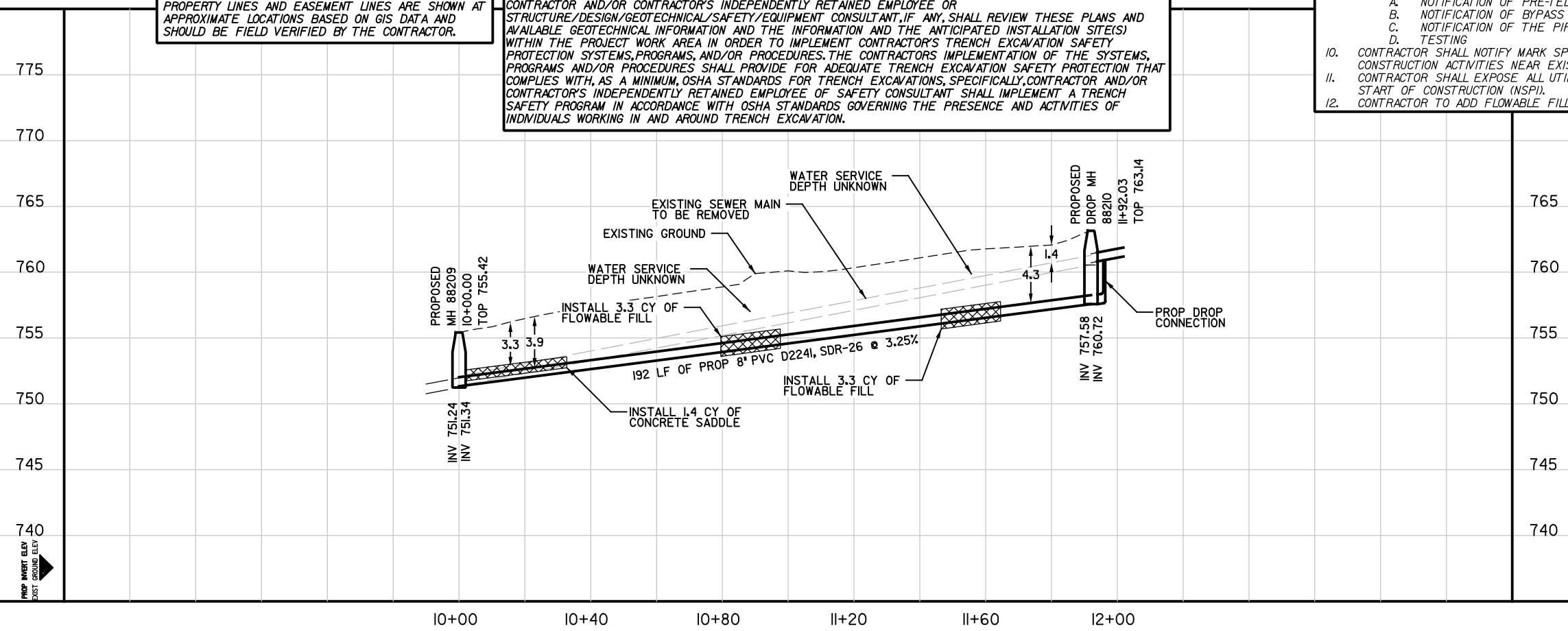
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	140
103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF	206.0
203.1	TACK COAT (COSA SPEC)	GAL	440.0
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	86.0
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH) (COSA SPEC)	SY	4380.0
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH) (COSA SPEC)	SY	4380.0
413.1	FLOWABLE FILL (COSA SPEC)	CY	6.6
500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	140
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	11.0
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY - RESIDENTIAL (COSA SPEC)	SY	12.0
515.1	TOPSOIL (COSA SPEC)	CY	5.0
516.1	BERMUDA SODDING (COSA SPEC)	SY	40.0
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Chisolm Trail)	LS	1
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	192
801.2	LEVEL IIA PROTECTIVE FENCING	LF	175
801.3	LEVEL IIB PROTECTIVE FENCING	LF	20
848	8" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI), (0'-6" DEPTH)	LF	192
852	SANITARY SEWER MANHOLE (0'-6" DEPTH)	EA	2
854	SANITARY SEWER LATERALS (PVC - ASTM D224I, SDR-26, 160 PSI)	LF	70
854	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	3
858	CONCRETE ENCASUREMENT, CRADLES, SADDLES AND COLLARS	CY	1.4
864-SI	BYPASS PUMPING (Chisolm Trail)	LS	1
866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	192

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS

PROPERTY AND EASEMENT LINES NOTE:
 PROPERTY LINES AND EASEMENT LINES ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS DATA AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.

TRENCH EXCAVATION SAFETY PROTECTION:
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- NOTES:**
- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
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 - CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
 - CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 233-3500 AND ENGINEER OF RECORD (LAW) AT 499-5082 48 HOURS BEFORE ANY CONSTRUCTION TAKES PLACE, INCLUDING BUT NOT LIMITED TO:
 - NOTIFICATION OF PRE-TELEVISION INSPECTION
 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
 - CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
 - CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
 - CONTRACTOR TO ADD FLOWABLE FILL WHERE SEWER SERVICE LATERALS CROSS EXISTING WATER MAINS.



LEGEND

PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	- - -
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	— ● —
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	- - - - -

Professional Engineer Seal for ELAIZA M. ALVAREZ, License No. 115095, State of Texas. Date: 04/08/2020. 100% SUBMITTAL.

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

DEVELOPER: CONT. | **BUDGET PROJ.**

SUBMITTED: _____

APPROVED: _____

MAP No. 176612 | SHEET 24

SECT. No. | DR. MRG | CK. EMA | JOB No. 18-4531

5:38:39 PM

4/9/2020

... \Sewer-0C_PBA\T42_Plan01.dgn

NCB No. 9892

BLK No. 10
14

567 BYRNES DRIVE
SAN ANTONIO, TX
78209

REHAB MH 61140
TOP 768.20
INV IN (W) 765.08
INV IN (E) 764.93
INV OUT UNK.

TREE ID 15029
12' CREPE MYRTLE

TEST HOLE II

2" STL GAS
N: 13727620.13
E: 2148341.79
GROUND ELEV = 768.92
DEPTH = 3.65
OWNER: CPS

NCB No. 9892

BLK No. 10

1
602 OLNEY DRIVE
SAN ANTONIO, TX
78209

PANSY LANE
(PCI > 86)

PROPERTY AND EASEMENT LINES NOTE:

PROPERTY LINES AND EASEMENT LINES ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS DATA (APPARENT ROW) AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.

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POLE BRACING NOTE:

CONTRACTOR TO CONTACT CPS FOR POLE BRACING UPON RECEIPT OF SAWS NTP

NCB No. 9886

BLK No. 3

36
543 BYRNES DRIVE
SAN ANTONIO, TX
78209

35
539 BYRNES DRIVE
SAN ANTONIO, TX
78209

RECONNECT 71918
STA. 10+73.39

BRACE POLE (NSPI)

PROPERTY FENCE

CAUTION!
WATER SERVICE CROSSING

8" HDPE - 232'
(PIPE BURST)

RECONNECT 8995
STA. 10+70.98

RECONNECT 8925
STA. 11+28.66

NCB No. 9886
BLK No. 3

44
544 OLNEY DRIVE
SAN ANTONIO, TX
78209

STA. 12+01.90
RECONNECT 71917

CAUTION!
WATER SERVICE CROSSING

TEST HOLE IO

34
535 BYRNES DRIVE
SAN ANTONIO, TX
78209

REHAB MH 61139
TOP 772.06
INV IN 767.05
INV OUT 765.09

TEST HOLE IO
TEST HOLE IO9A

43
538 OLNEY DRIVE
SAN ANTONIO, TX
78209

TEST HOLE 09

2" STL GAS
N: 13727526.48
E: 2148168.52
GROUND ELEV = 771.56
DEPTH = 3.51
OWNER: CPS

TEST HOLE 09A

1" STL GAS SERVICE
N: 13727531.39
E: 2148172.68
GROUND ELEV = 771.66
DEPTH = 3.44
OWNER: CPS

TEST HOLE IO

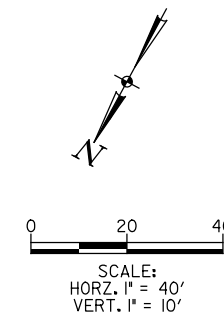
6" CI WATER
N: 13727522.14
E: 2148172.37
GROUND ELEV = 771.46
DEPTH = 2.62
OWNER: SAWS

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	20
103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF	155.0
203.1	TACK COAT (COSA SPEC)	GAL	16.5
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10' COMPACTED DEPTH) (COSA SPEC)	SY	6.0
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2' COMPACTED DEPTH) (COSA SPEC)	SY	165.0
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2' DEPTH) (COSA SPEC)	SY	165.0
413.1	FLOWABLE FILL (COSA SPEC)	CY	1.0
500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	20
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	8.0
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY - COMMERCIAL (COSA SPEC)	SY	9.0
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Pansy Lane)	LS	1
801.2	LEVEL IIA PROTECTIVE FENCING	LF	24
864-SI	BYPASS PUMPING (Pansy Lane)	LS	1
866	SEWER MAIN PRE-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	232
900	PIPE BURSTING 8" SANITARY SEWER PIPE, 0'-10' DEEP	LF	232
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASEMENT)	VF	9.5
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, INCLUDING UP TO 5 LF OF LATERAL)	EA	3
1109	SERVICE RECONNECTION, (W/ OPEN CUT EXCAVATION, 0'-10' DEPTH, > 5 LF OF LATERAL)	EA	2

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS

NOTES:

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 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
- CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
- CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
- CONTRACTOR TO EXPOSE GAS SERVICES WHERE CROSSING SEWER MAIN
- CONTRACTOR TO PROTECT EXISTING FENCES (NSPI)



100% SUBMITTAL

LEGEND	
PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	- - - -
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	— ● —
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	- - - -

Lockwood, Andrews & Newnam, Inc. A LEGAL DAILY COMPANY TBPE REGISTRATION NO: F-2614	
1 Addendum 2	MWS EMA 4/8/20
No. Revision	Drawn Approved Date
REVISIONS	
DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
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SECT. No.	
DR. MRG [CK, EMA]	JOB No. 18-4531

4/6/2020 11:16:45 PM

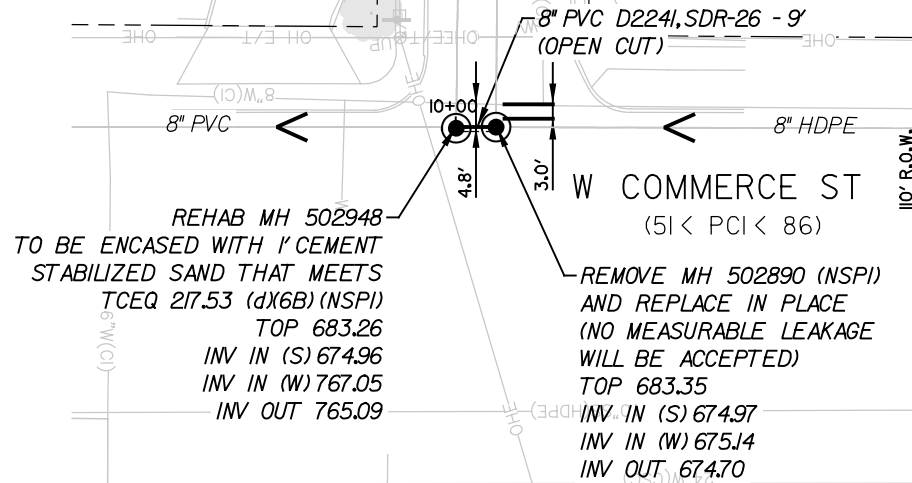
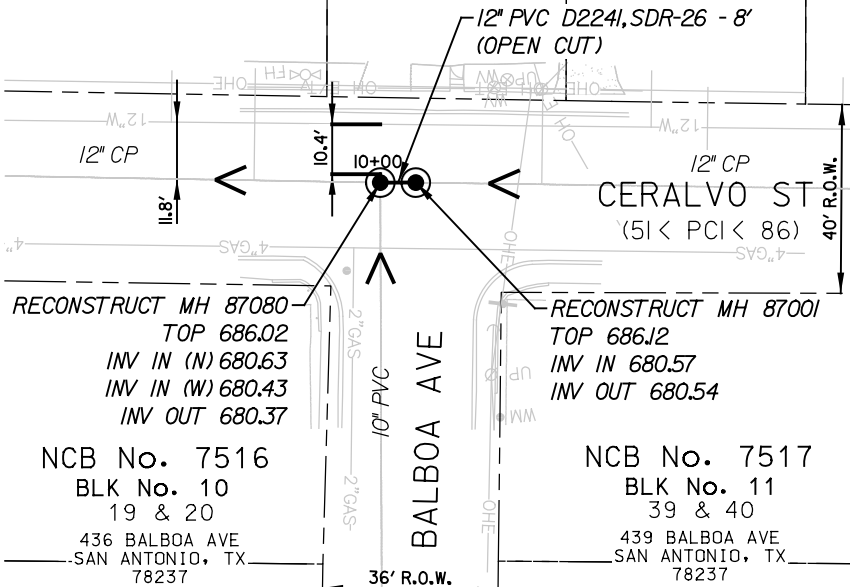
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BLK No. 1
25
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SAN ANTONIO, TX
78237

NCB No. 8204
BLK No. 1
43
4622 W. COMMERCE ST
SAN ANTONIO, TX
78237

8, 9 & 10
2118 CERALVO ST
SAN ANTONIO, TX
78237

NCB No. 8079
BLK No. 41
11 & 12
2122 CERALVO ST
SAN ANTONIO, TX
78237

13 & 14
2202 CERALVO ST
SAN ANTONIO, TX
78237



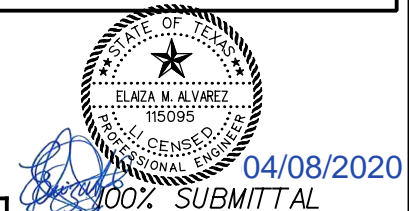
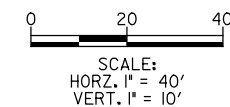
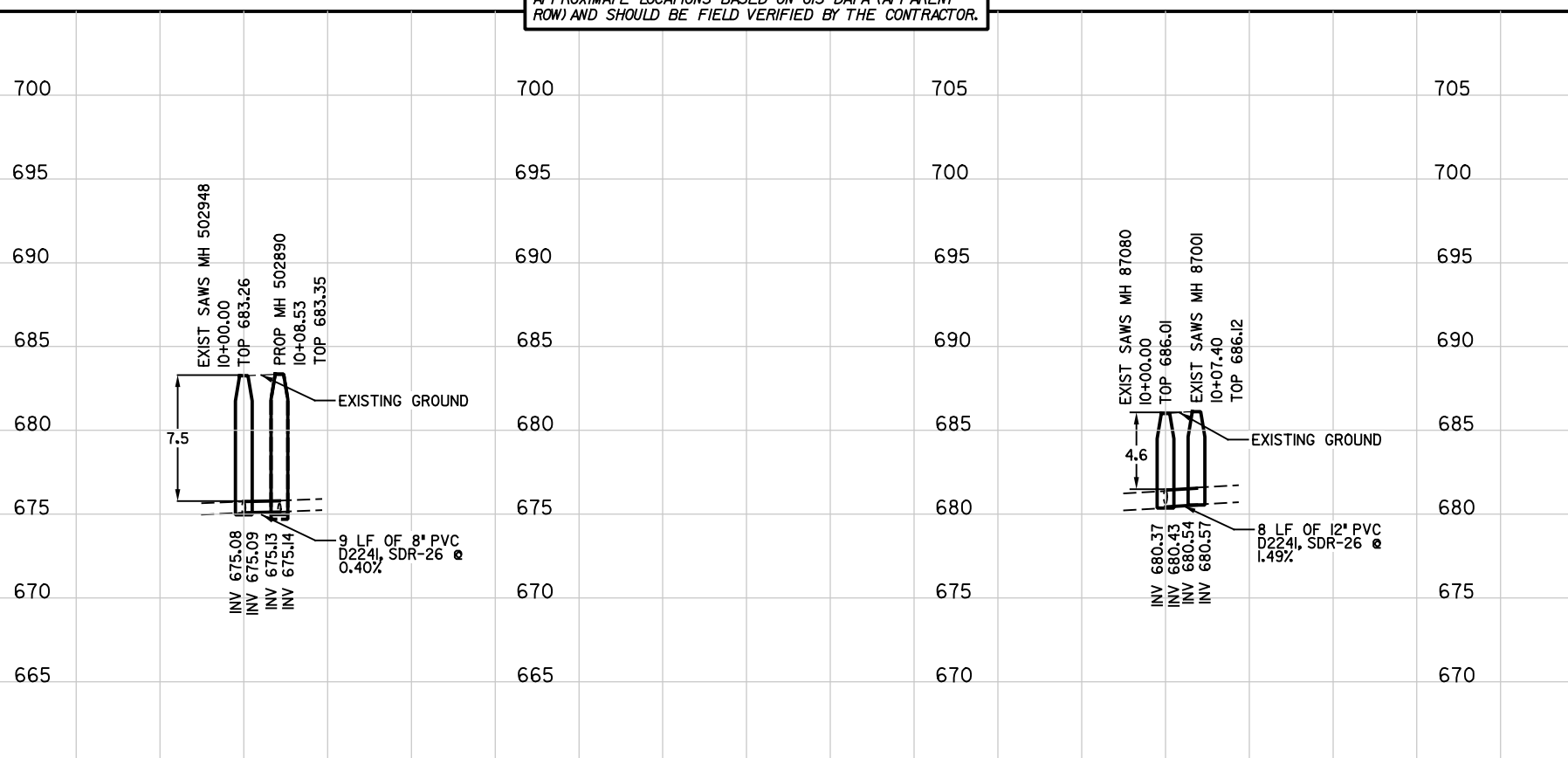
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
203.J	TACK COAT (COSA SPEC)	GAL	112.0
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10' COMPACTED DEPTH) (COSA SPEC)	SY	7.0
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2' COMPACTED DEPTH) (COSA SPEC)	SY	94.0
205.5	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3' COMPACTED DEPTH) (COSA SPEC)	SY	1016.0
208.I	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2' DEPTH) (COSA SPEC)	SY	94.0
208.J	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3' DEPTH) (COSA SPEC)	SY	1016.0
530.I	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce and 30th; Ceralvo and Balboa)	LS	2
535.1	4 INCH WIDE YELLOW LINE (COSA SPEC)	LF	180
535.2	4 INCH WIDE WHITE LINE (COSA SPEC)	LF	44
535.4	8 INCH WIDE WHITE LINE (COSA SPEC)	LF	100
537.6	PAVEMENT MARKER (TYPE I-C) (COSA SPEC)	EA	7
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	17
848	12" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (0'-6" DEPTH)	LF	8
848	8" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (6'-14" DEPTH)	LF	9
852	SANITARY SEWER MANHOLE (0'-6" DEPTH)	EA	1
852	EXTRA DEPTH MANHOLE (2'-6" DEEP)	VF	2.7
855	RECONSTRUCTION OF EXISTING MANHOLE	EA	2
864-SI	BYPASS PUMPING (Commerce and 30th; Ceralvo and Balboa)	LS	2
866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	17
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASMENT)	VF	8.5

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS

NOTES:

- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF OTHER UTILITIES DURING CONSTRUCTIONS (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS AS SHOWN BY AND IN ACCORDANCE WITH COSA'S TCP THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- CONTRACTOR TO PROTECT EXISTING SIGNS, PROVIDE TEMPORARY SIGNS, AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH REHABILITATION OF SEWER (NSPI).
- MANHOLES TO BE TESTED IN ACCORDANCE WITH SAWS REQUIREMENTS AND DOCUMENTED AS OUTLINED BY SAWS REGULATIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO SURFACE FEATURES (MANHOLES, CLEANOUTS, ETC.)
- LATERAL LOCATIONS SHOWN ON PLANS ARE FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
- CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).
- CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 233-3500 AND ENGINEER OF RECORD (LAN) AT 499-5082 48 HOURS BEFORE ANY CONSTRUCTION TAKES PLACE, INCLUDING BUT NOT LIMITED TO:
 - NOTIFICATION OF PRE-TELEVISION INSPECTION
 - NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS
 - NOTIFICATION OF THE PIPE INSTALLATION
 - TESTING
- CONTRACTOR SHALL NOTIFY MARK SPAULDING (210-441-9078) @ VIA METROPOLITAN 14 DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES NEAR EXISTING BUS STOP SHELTERS.
- CONTRACTOR SHALL EXPOSE ALL UTILITIES TO FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION (NSPI).

PROPERTY AND EASEMENT LINES NOTE:
PROPERTY LINES AND EASEMENT LINES ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON GIS DATA (APPARENT ROW) AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.



LEGEND	
PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	- - - -
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	—
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	- - - -

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

MULTIPLE SEWERSHD PKG 12 OPEN CUT & PIPE BURSTING
BE29 & BH28
COMPKEY: 2758473, 1048916
OPEN CUT PLAN AND PROFILE

DEVELOPER: []
CONT. [] BUDGET PROJ. []

SUBMITTED []
APPROVED []

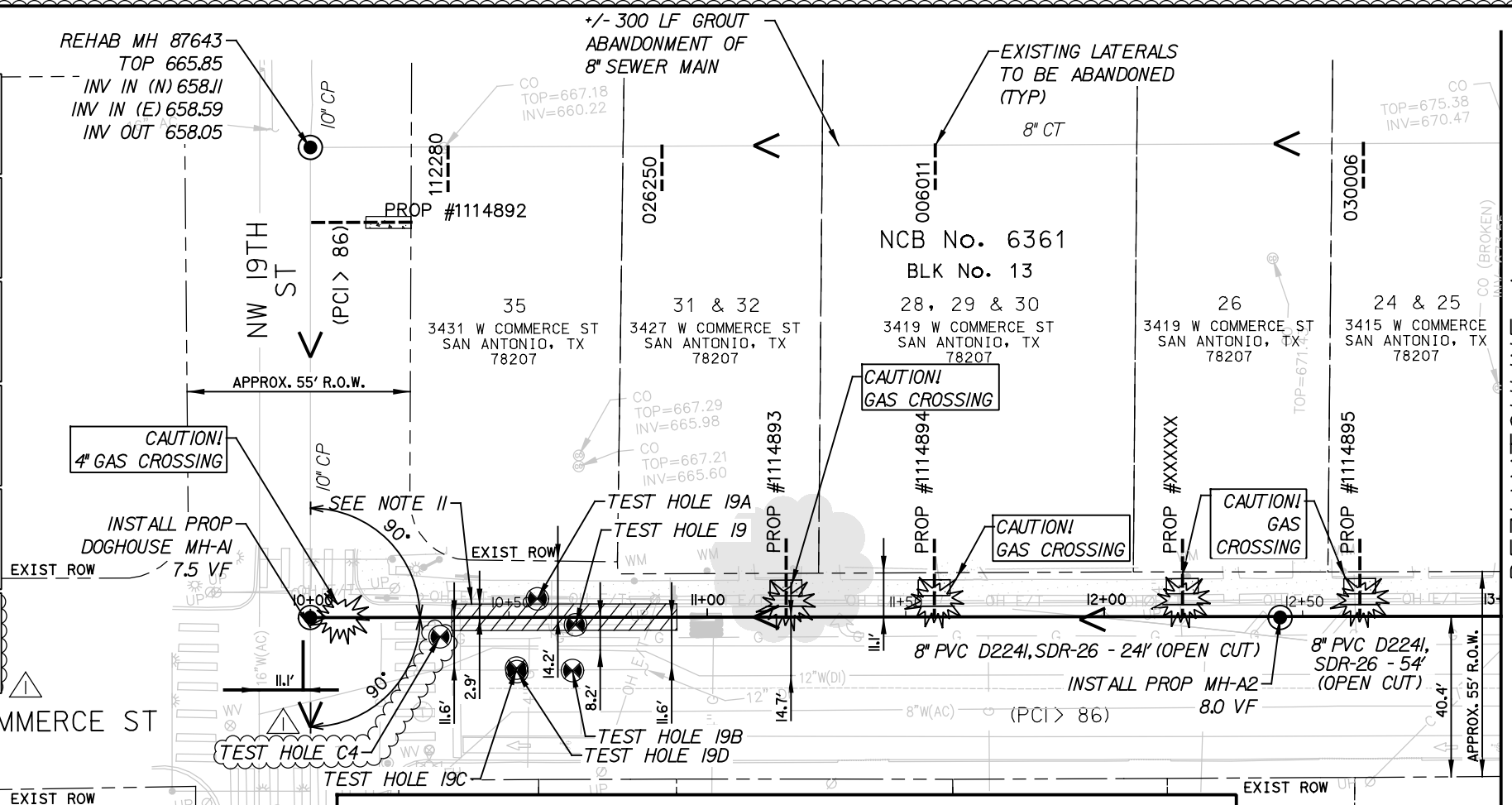
MAP No. 142580 & 140572
SECT. No. []
DR. MRG [] CK. EMA [] JOB No. 18-4531

SHEET 26

... \BE29-BH28_PLAN01.dgn

11/21/20 4/9/2020

TEST HOLE 19 4" STL GAS N: I3706147.14 E: 2116584.73 GROUND ELEV = 661.42
TEST HOLE 19A 2" STL GAS N: I3706154.63 E: 2116575.57 GROUND ELEV = 663.82
TEST HOLE 19B 12" DI WATER N: I3706135.77 E: 2116582.50 GROUND ELEV = UNK
TEST HOLE 19C 12" DI WATER N: I3706137.84 E: 2116568.54 GROUND ELEV = UNK
TEST HOLE 19D 12" DI WATER N: I3706136.94 E: 2116568.55 GROUND ELEV = UNK
TEST HOLE C4 2" STEEL GAS N: I3706147.69 E: 2116550.20 GROUND ELEV = 664.65



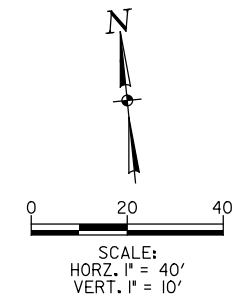
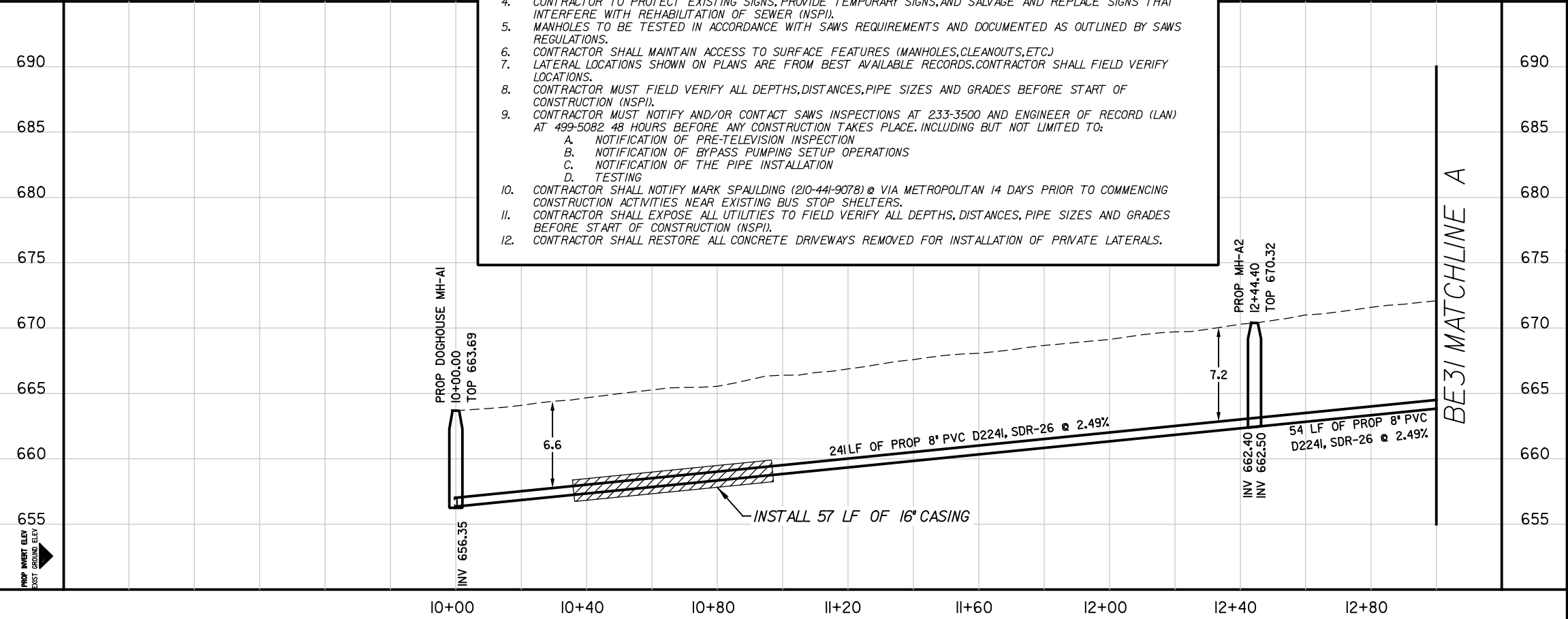
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	40
103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF	130.0
203.1	TACK COAT (COSA SPEC)	GAL	140.5
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMPACTED DEPTH) (COSA SPEC)	SY	1405
205.5	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3" COMPACTED DEPTH) (COSA SPEC)	SY	1405
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3" DEPTH) (COSA SPEC)	SY	2300
500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	40
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	24.9
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY - RESIDENTIAL (COSA SPEC)	SY	90.2
503.2	PORTLAND CEMENT CONCRETE DRIVEWAY - COMMERCIAL (COSA SPEC)	SY	3.8
535.2	4 INCH WIDE WHITE LINE (COSA SPEC)	LF	65
535.4	8 INCH WIDE WHITE LINE (COSA SPEC)	LF	490
535.7	24 INCH WIDE WHITE LINE (COSA SPEC)	LF	100
535.8	RIGHT WHITE ARROW (COSA SPEC)	EA	2
535.12	WORD "ONLY" (COSA SPEC)	EA	1
535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY (COSA SPEC)	EA	2
535.17	BICYCLE RIDER SYMBOL (COSA SPEC)	EA	2
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	300
848	8" PVC GRAVITY SANITARY SEWER PIPE (D224I, SDR-26, 160 PSI), (6'-14" DEPTH)	LF	300
852	SANITARY SEWER MANHOLE (0'-6" DEPTH)	EA	2.0
852	EXTRA DEPTH MANHOLE (26' DEEP)	VF	9.5
854	SANITARY SEWER LATERALS (PVC - ASTM D224I, SDR-26, 160 PSI)	LF	88
854	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	5
856	16" STEEL CASING	LF	57
SS 862	ABANDONMENT OF SEWER MAINS	LF	300
866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	300
SS 910	MANHOLE REHABILITATION (INC NEW RING, COVER, CONCRETE ENCASMENT)	VF	7.8
SS 3300	SANITARY SEWER PRIVATE LATERALS (4"-6")	LF	450

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS

PROPERTY AND EASEMENT LINES NOTE:
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POLE BRACING NOTE:
CONTRACTOR TO CONTACT CPS FOR POLE BRACING UPON RECEIPT OF SAWS NTP

- NOTES:**
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 - CONTRACTOR SHALL RESTORE ALL CONCRETE DRIVEWAYS REMOVED FOR INSTALLATION OF PRIVATE LATERALS.



100% SUBMITTAL

LEGEND

- PROP. SAN SEWER OPEN CUT
- PROP. SAN SEWER PIPE BURST
- EXIST. WATER MAIN
- EXIST. GAS MAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- EXIST. UTILITY POLE
- EXIST. ELECTRIC CABLE
- EXIST. OVERHEAD ELECTRIC CABLE
- EXIST. UNDERGROUND TELEPHONE CABLE
- EXIST. SANITARY SEWER LATERAL

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

1	Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved	Date

REVISIONS

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

SUBMITTED: _____
APPROVED: _____

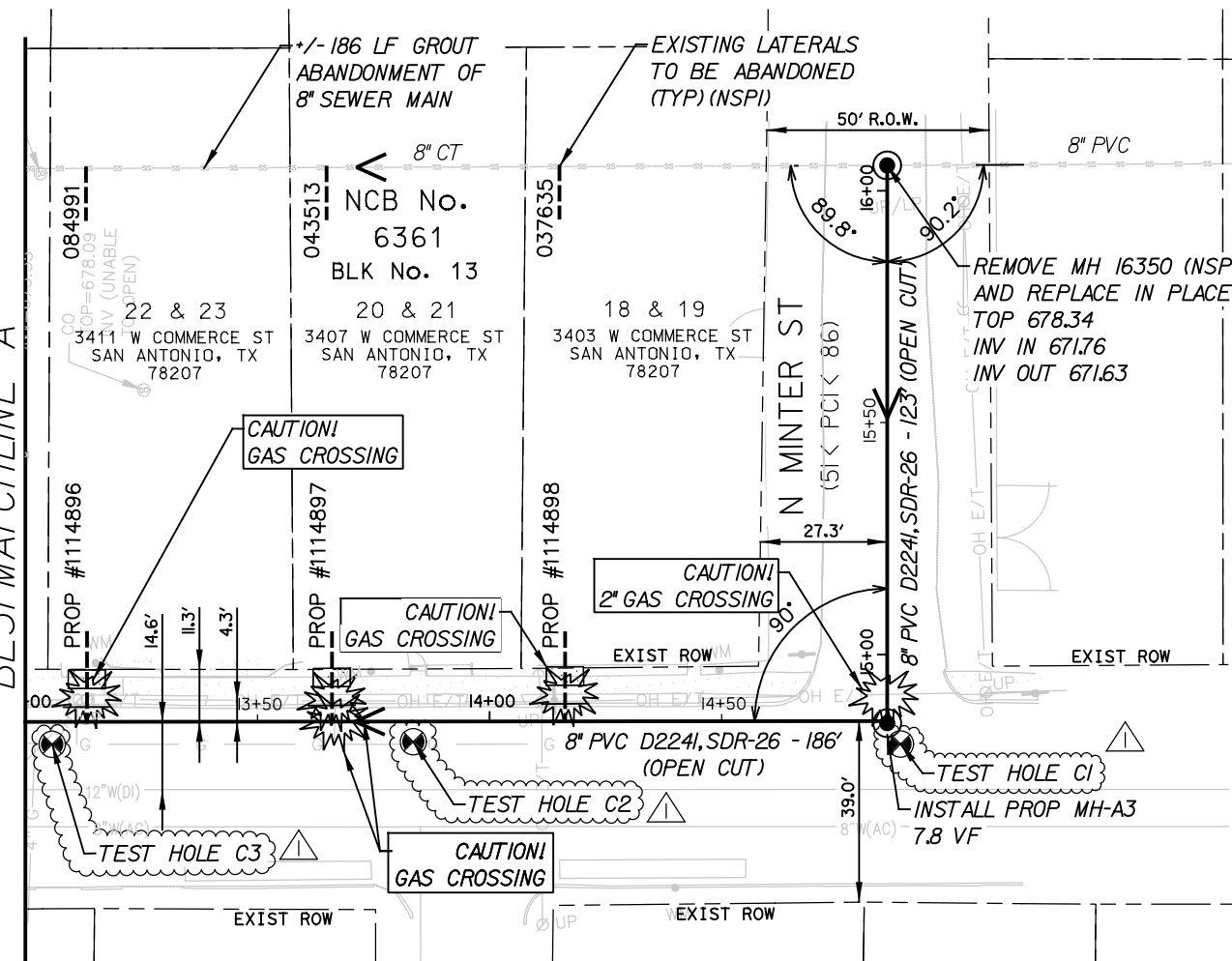
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SECT. No. _____
DR. MRG CK. EMA JOB No. 18-4531

SHEET 27

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4/9/2020

BE31 MATCHLINE A

BE31 MATCHLINE A



- NOTES:**
- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
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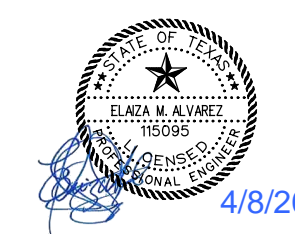
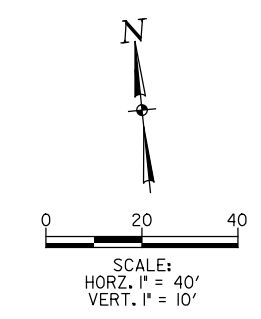
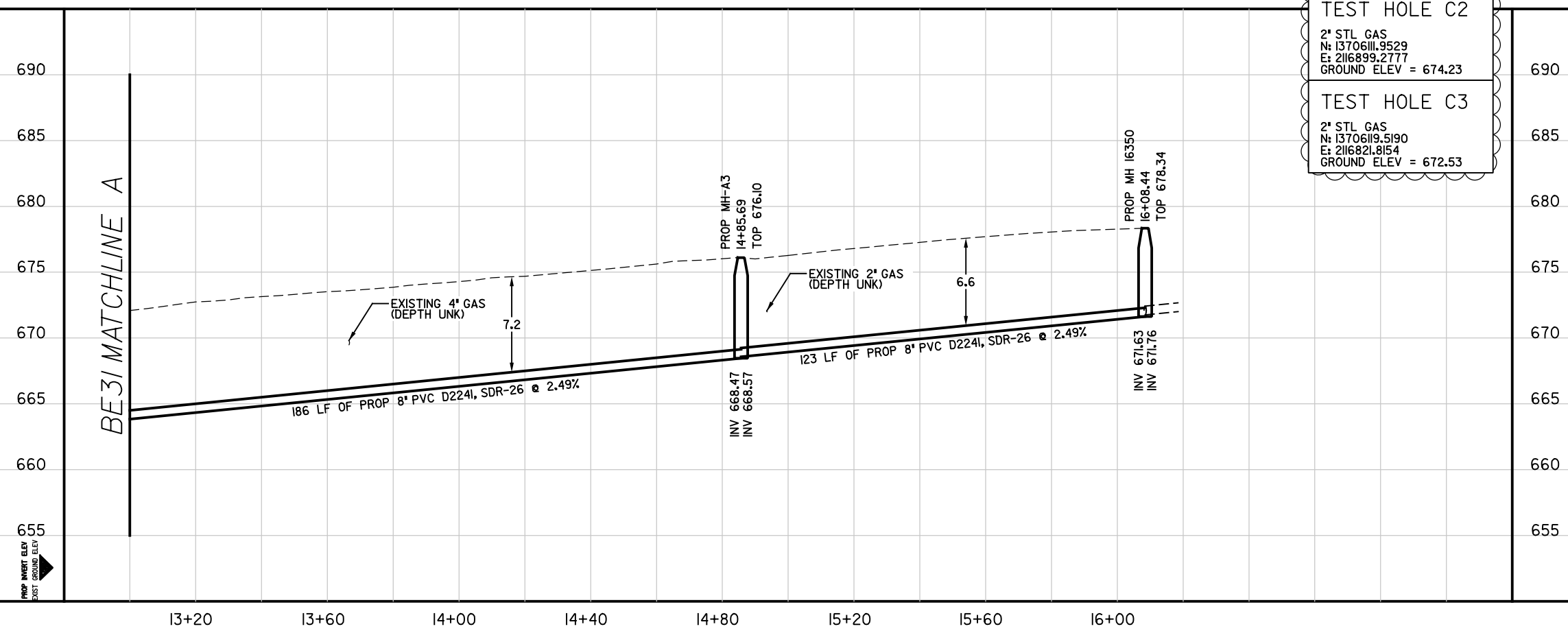
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2" STL GAS
N: 13706100.538
E: 2117003.6417
GROUND ELEV = 676.43

TEST HOLE C2
2" STL GAS
N: 13706111.9529
E: 2116899.2777
GROUND ELEV = 674.23

TEST HOLE C3
2" STL GAS
N: 13706119.5190
E: 2116821.8154
GROUND ELEV = 672.53

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST. QTY
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	30
103.3	REMOVE SIDEWALK AND DRIVEWAYS (COSA SPEC)	SF	96.0
203.1	TACK COAT (COSA SPEC)	GAL	95.0
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10' COMPACTED DEPTH) (COSA SPEC)	SY	135
205.5	HOT MIX ASPHALTIC PAVEMENT, TYPE D (3' COMPACTED DEPTH) (COSA SPEC)	SY	925
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (3' DEPTH) (COSA SPEC)	SY	925
500.1	CONCRETE CURB, CURB AND GUTTER, AND MOUNTABLE CURB (COSA SPEC)	LF	30
502.1	CONCRETE SIDEWALKS (COSA SPEC)	SY	18.7
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY - RESIDENTIAL (COSA SPEC)	SY	17.3
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) (Commerce 19th - Minter)	LS	1
535.2	4 INCH WIDE WHITE LINE (COSA SPEC)	LF	55
535.4	8 INCH WIDE WHITE LINE (COSA SPEC)	LF	355
535.16	STRAIGHT WHITE ARROW BICYCLE FACILITY (COSA SPEC)	EA	2
535.17	BICYCLE RIDER SYMBOL (COSA SPEC)	EA	2
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	307
848	8" PVC GRAVITY SANITARY SEWER PIPE (D2241, SDR-26, 160 PSI), (6'-14' DEPTH)	LF	307
852	SANITARY SEWER MANHOLE (0'-6' DEPTH)	EA	2-0
852	EXTRA DEPTH MANHOLE (0'6" DEEP)	VF	8.5
854	SANITARY SEWER LATERALS (PVC - ASTM D2241, SDR-26, 160 PSI)	LF	53
854	TWO-WAY SANITARY SEWER CLEAN-OUT	EA	3
SS 862	ABANDONMENT OF SEWER MAINS	LF	186
864-SI	BYPASS PUMPING (Commerce 19th - Minter)	LS	1
866	SEWER MAIN POST-TELEVISION INSPECTION (8" THROUGH 15" DIAMETER)	LF	307
SS 3300	SANITARY SEWER PRIVATE LATERALS (4"-6")	LF	270

NOTE: SEE TCP AND PAVEMENT REPAIR SHEETS FOR PAVEMENT RESTORATION LIMITS



100% SUBMITTAL

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

1 Addendum 2	MWS	EMA	4/8/20
No.	Revision	Drawn	Approved Date

REVISIONS

DEVELOPER: [Signature]
CONT.: BUDGET PROJ.

SUBMITTED: _____
APPROVED: _____

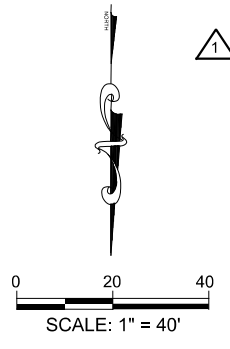
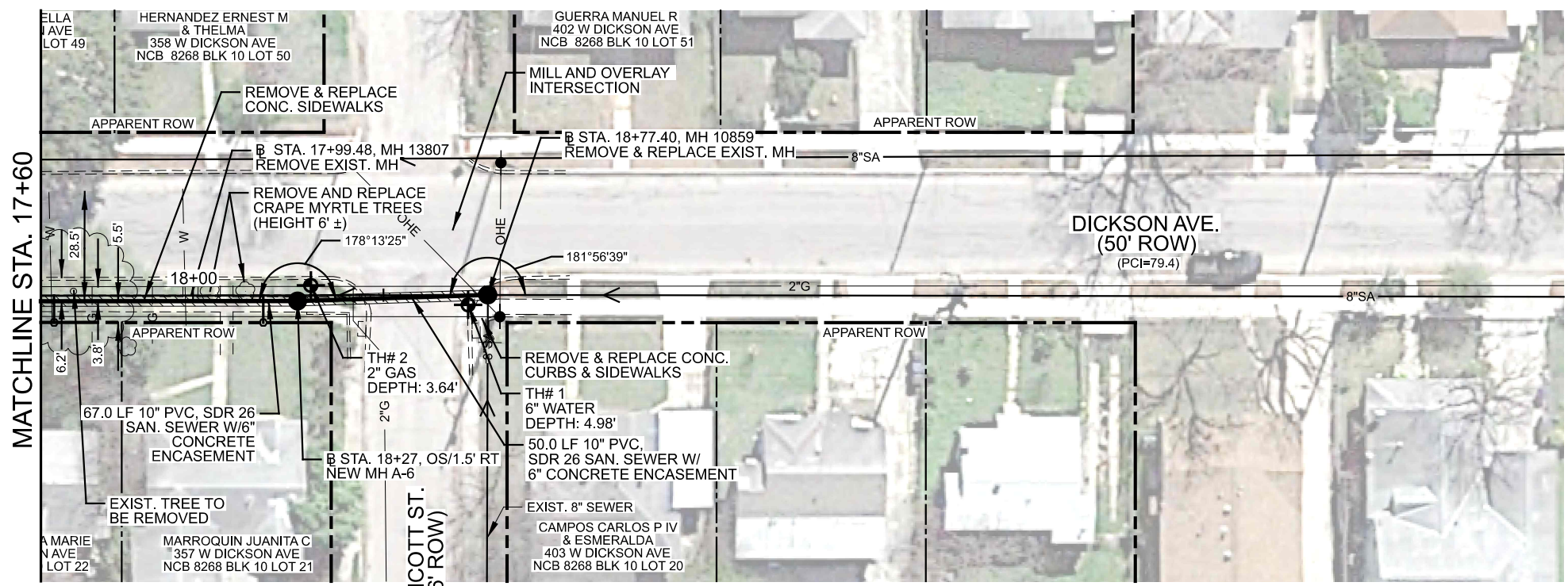
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SECT. No. _____
DR. MRG CK. EMA JOB No. 18-4531

SHEET 28

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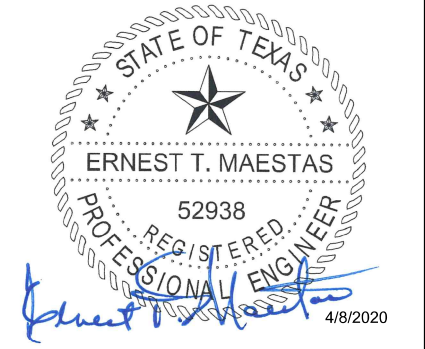


ESTIMATED QUANTITIES				
ITEM	DESCRIPTION	UNIT	EST	FINAL
103.1	Remove Concrete Curb	LF	61	
103.3	Remove Sidewalks and Driveways	SF	451	
203.1	Lock Coat	CY	26	
205.2	Hot Mix Asphaltic Pavement Type B (4" Comp. Depth)	SY	10	
205.4	Hot Mix Asphaltic Pavement Type D (2" Comp. Depth)	SY	263	
208.1	Reclaimable Asphaltic Pavement (2" Depth)	SY	263	
500.1	Concrete Curb	LF	61	
502.1	Concrete Sidewalks	SY	49	
506.1	Concrete Retaining Walls-Comb Type	CY	0.3	
515.1	Topsoil	CY	8	
516.2	St. Augustine Sodding	SY	67	
848	10" PVC Sanitary Sewer Line, SDR 26, 160 psi (all depths)	LF	118	
852	Sanitary Sewer Manhole (0' - 6')	EA	2	
854.1	Sanitary Sewer Laterals	LF	12	
854.2	Two-Way Sanitary Sewer Clean-out	EA	2	
858	Concrete Encasements, Cradles, Saddles, and Collars	CY	13	
866	Sewer Main Pre-Television Inspection (8" To 15")	LF	118	
866	Sewer Main Post-Television Inspection (8" To 15")	LF	118	
804	Crape Myrtle Trees (6' Height)	EA	2	

NOTE:
CONTRACTOR SHALL BRACE ALL POWER POLES AS NEEDED (N.S.P.I.)
CALL C.P.S. LOCATOR AT 210-227-3606, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

EXISTING 8" SANITARY SEWER BETWEEN STATION 17+60 AND 18+77.40 SHALL BE ABANDONED IN PLACE. CUT AND PLUG 8" SEWER AT EACH MANHOLE. (N.S.P.I.)

HORZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 10'



100% SUBMITTAL

NOTES
1. DUE TO FEDERAL REGULATION TITLE 49, PART 92.181 CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.



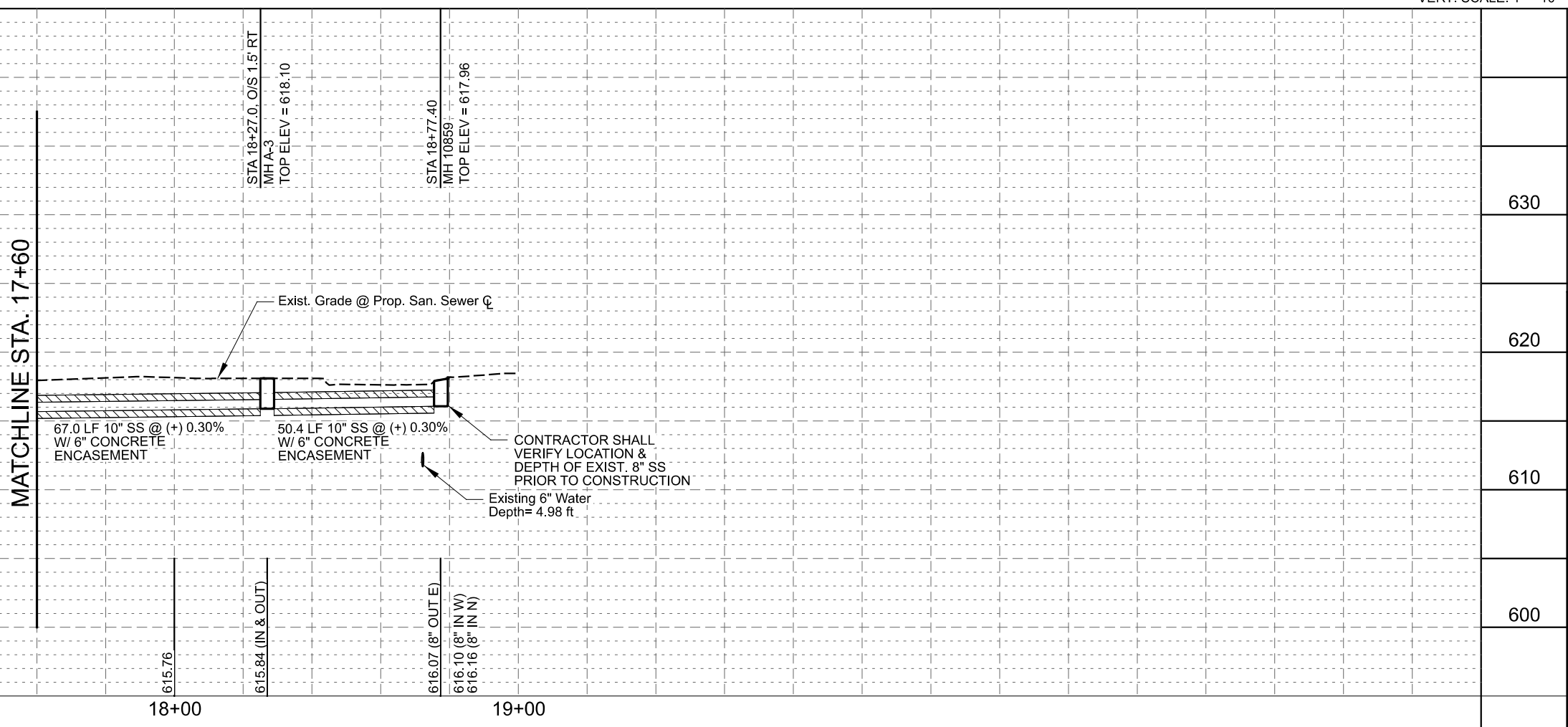
1	Addendum 2	ETM	ETM	4-08-20
No.	Revision	Drawn	Approved	Date

REVISIONS
MULTIPLE SEWERSHED PKG 12
OPEN CUT & PIPE BURSTING
W. DICKSON AVE.
PLAN AND PROFILE
SHEET 3 OF 3

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. # 18-4531

SUBMITTED
APPROVED

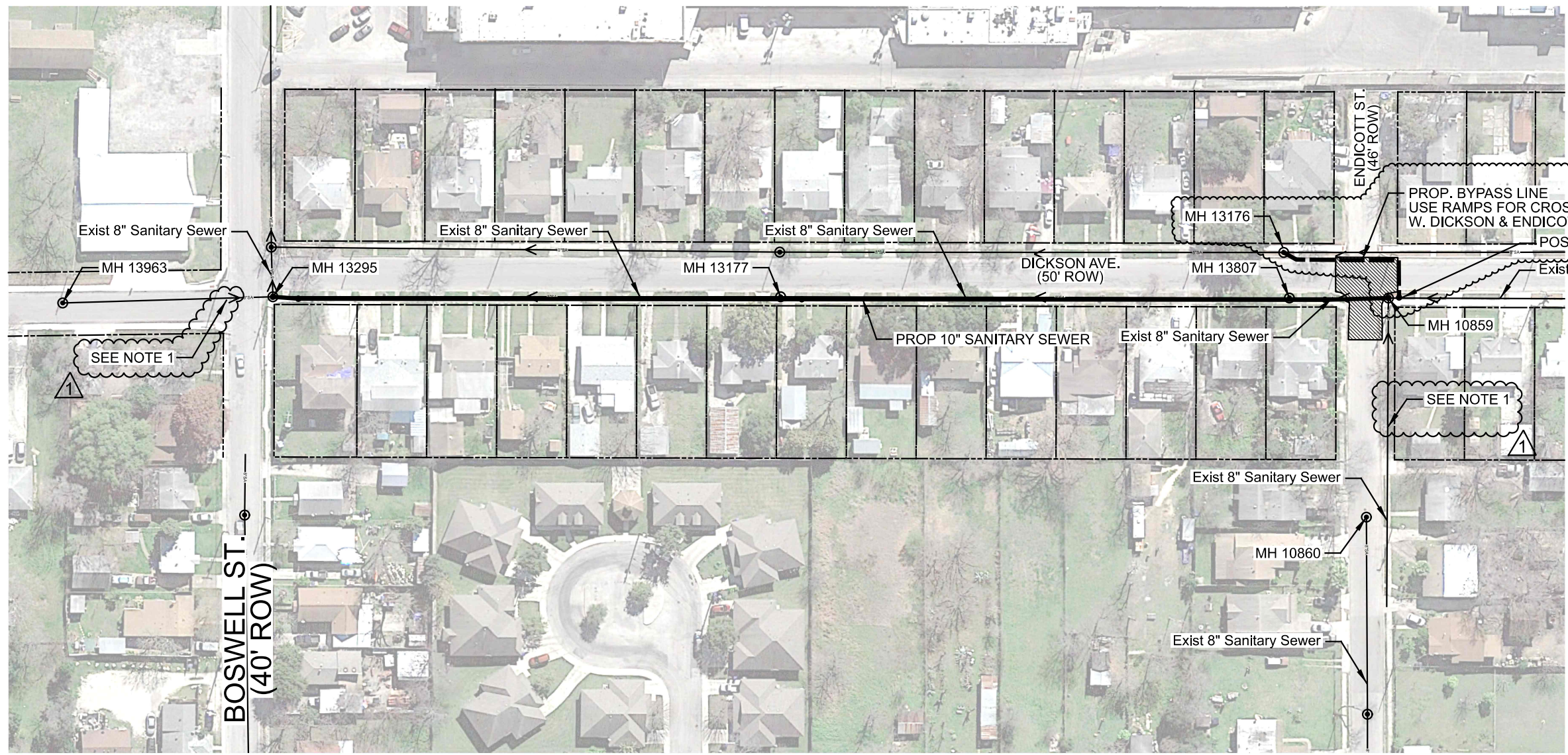
MAP No. 158-554 SHEET
SECT. No. 31
DR. CAD CK. ETM JOB No. 18-4531



LEGEND

- PROP. SAN SEWER RECONSTRUCTION OR REHAB LINES
- EXIST. LATERAL
- EXIST. WATER MAIN
- GAS MAIN
- EXIST. SANITARY SEWER
- EXIST. STORM SEWER
- UTILITY POLE LINE
- UG TELE CABLE
- OH ELECTRIC/TELE
- WATER METER
- EXIST RIGHT OF WAY
- PROPERTY LINES
- EXIST TOPO
- EASEMENT LINES
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- WOOD FENCE
- CONCRETE ENCASEMENT
- PAVEMENT PATCH
- PROP. SIDEWALK
- POINT REPAIR/OBSTRUCTION REMOVAL

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SCALE: 1" = 100'

SEE NOTE 1

SEE NOTE 1

PROP. BYPASS LINE
USE RAMP FOR CROSSING
W. DICKSON & ENDICOTT ST.
POSSIBLE DOGHOUSE MH (N.S.P.I)

NOTES
1. CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS ON W. DICKSON AVE AND ENDICOTT TO MINIMIZE SEWER FACILITY USAGE DURING CONSTRUCTION AND/OR INTERCEPT SEWER LATERALS AS NEEDED.



100% SUBMITTAL

LEGEND

- PROP. SAN SEWER RECONSTRUCTION OR REHAB LINES:
- EXIST. LATERAL:
- EXIST. WATER MAIN:
- GAS MAIN:
- EXIST. SANITARY SEWER:
- EXIST. STORM SEWER:
- UTILITY POLE LINE:
- UG TELE CABLE:
- OH ELECTRIC/TELE:
- WATER METER:
- EXIST RIGHT OF WAY:
- PROPERTY LINES:
- EXIST TOPO:
- EASEMENT LINES:
- CHAIN LINK FENCE:
- WROUGHT IRON FENCE:
- WOOD FENCE:
- CONCRETE ENCASEMENT:
- PAVEMENT PATCH:
- PROP. SIDEWALK:
- POINT REPAIR/OBSTRUCTION REMOVAL:

MAESTAS
8122 DATAPoint DR., STE. 840 SAN ANTONIO, TX 78229
(210) 366-1988 TBPE No.: F-333 TBPLS No.: 10194506

1	ADDENDUM 2	ETM	ETM	04-08-20
No.	Revision	Drawn	Approved	Date

REVISIONS

**MULTIPLE SEWERSHED PKG 12
OPEN CUT & PIPE BURSTING
W. DICKSON AVE.
BYPASS FLOW DATA
SHEET 1 OF 1**

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. # 18-4531

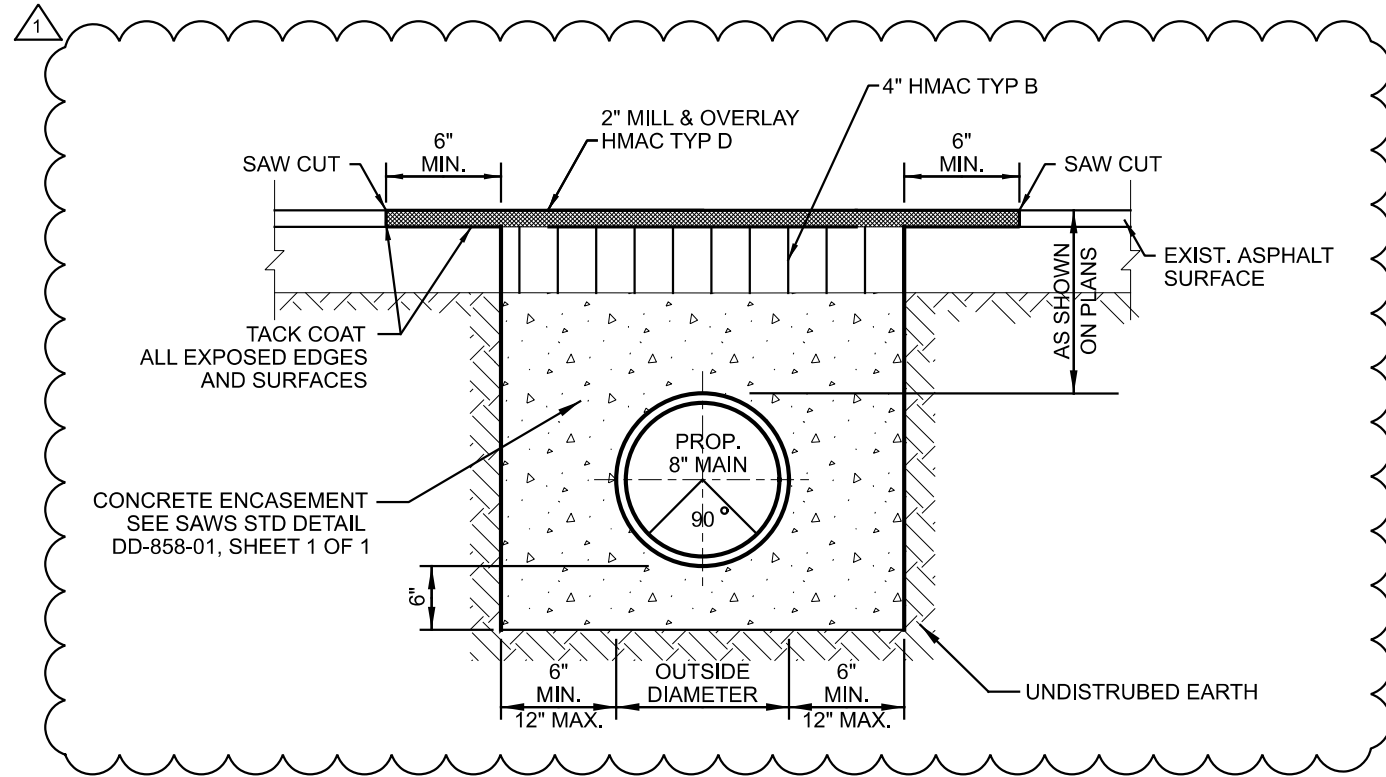
SUBMITTED _____
APPROVED _____

MAP No. 158-554 SHEET 41
SECT. No. _____
DR. CAD CK. ETM JOB No. 18-4531

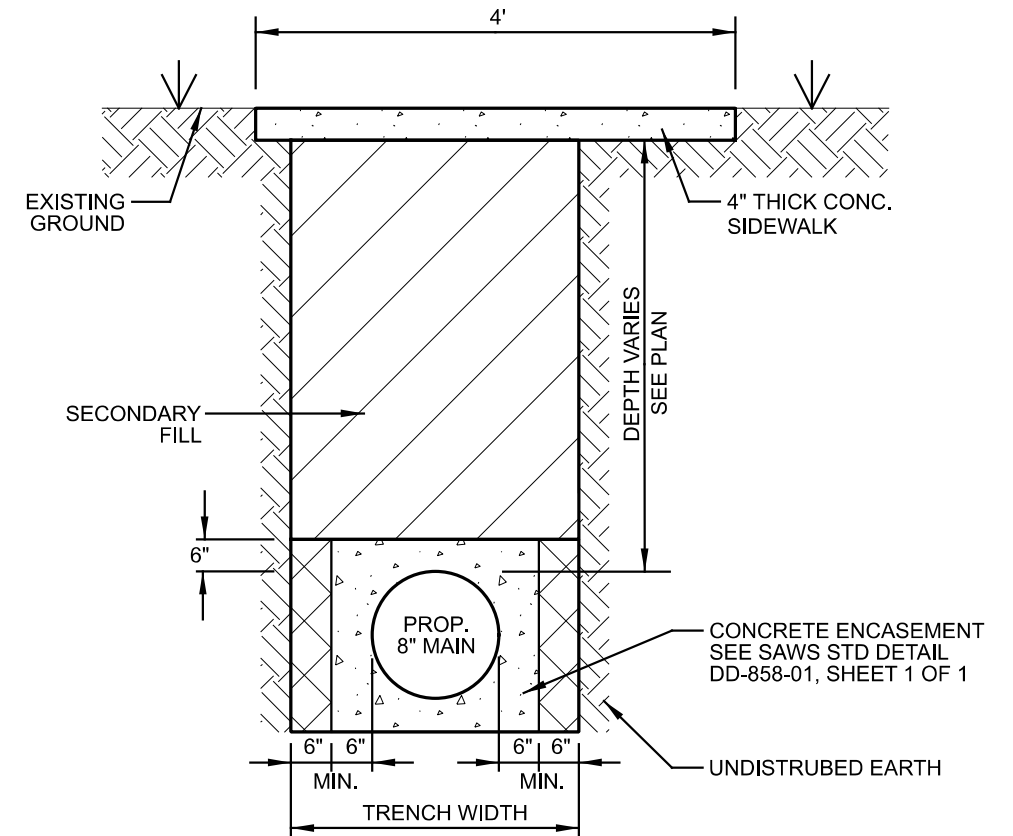
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PAVEMENT REPAIR TRENCH DETAIL
NOT TO SCALE



SIDEWALK REPAIR TRENCH DETAIL
(WITH CONCRETE ENCASUREMENT)
NOT TO SCALE

PAVEMENT REPAIR TRENCH NOTES:

1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 12" WIDER THAN UNDISTURBED SIDES OF THE TRENCH SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 6" WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMAc.
4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
5. FLOWABLE BACKFILL MAY BE SUBSTITUTED IN THESE REPAIRS FOR SECONDARY BACKFILL.



100% SUBMITTAL

MAESTAS

8122 DATAPOINT DR., STE. 840 SAN ANTONIO, TX 78229
(210) 366-1988 TBPE No.: F-333 TBPLS No.: 10194506

No.	Revision	Drawn	Approved	Date
1	ADDENDUM 2	ETM	ETM	4-08-20

REVISIONS

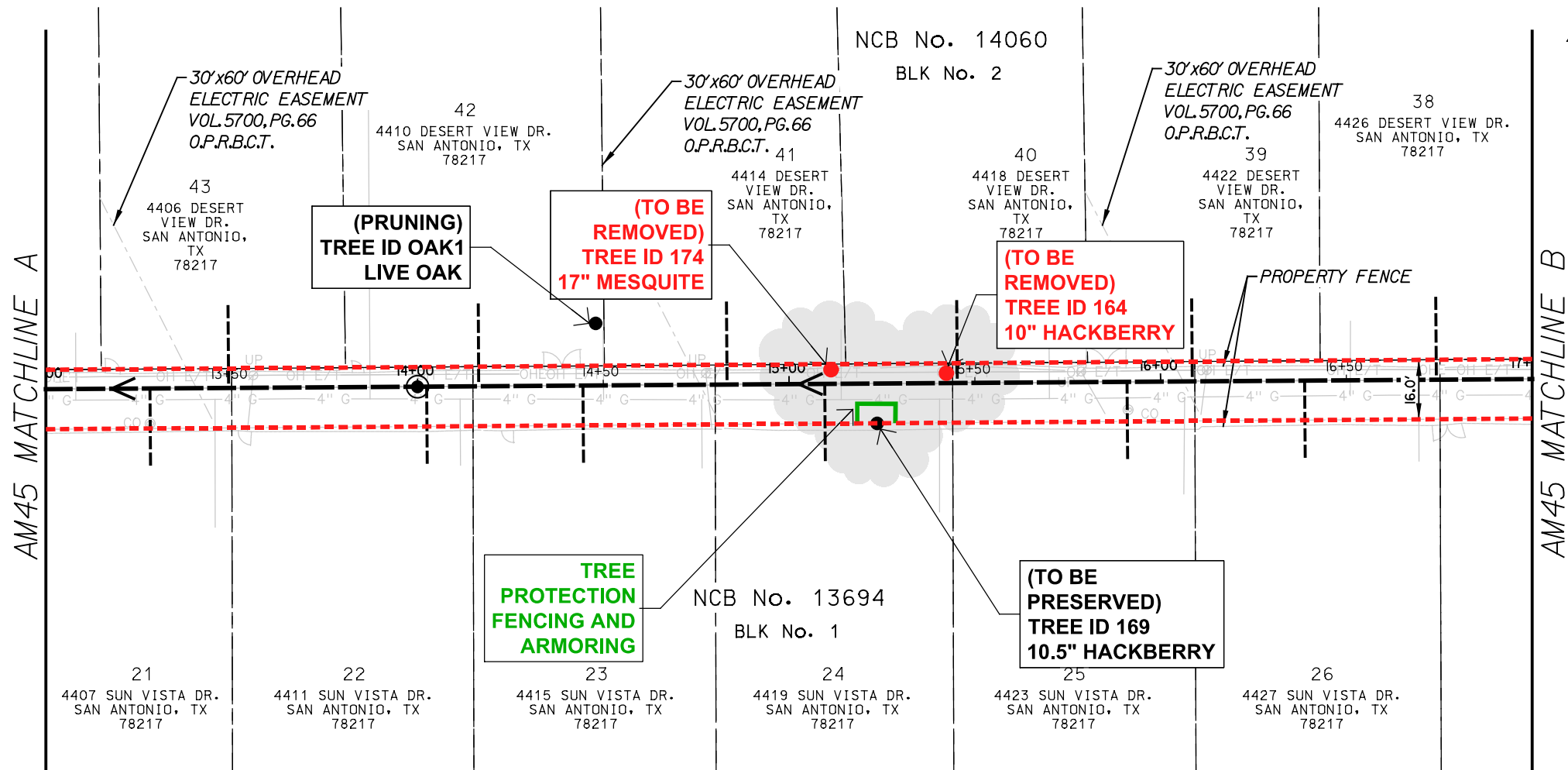
**MULTIPLE SEWERSHED PKG 12
OPEN CUT & PIPE BURSTING
W. DICKSON AVE.
TRENCH DETAILS
SHEET 1 OF 1**

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. # 18-4531

SUBMITTED _____
APPROVED _____

MAP No. _____ SHEET
SECT. No. _____ 43
DR. CAD CK. ETM JOB No. 18-4531

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	ESTIMATED QTY
801.2	LEVEL IIA PROTECTIVE FENCING	LF	30
801.3	LEVEL IIB PROTECTIVE FENCING	LF	6



GENERAL TREE NOTE:

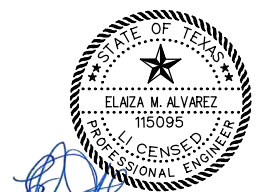
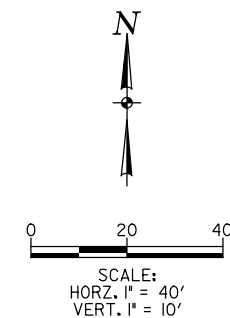
ONLY THE TREES DEPICTED ON THESE TREE PRESERVATION PLANS WERE DOCUMENTED AND ASSESSED BY THE J&L CONSULTING ISA CERTIFIED ARBORIST (TX-3285A). OTHER TREES PROTECTED UNDER THE COSA 2010 TREE PRESERVATION ORDINANCE MAY BE PRESENT IN THE PROJECT AREA AND SHOULD BE PROTECTED ACCORDINGLY/ REMOVED AFTER ADDITIONAL COORDINATION WITH COSA/SAWS.

SPECIAL COORDINATION NOTE:

CONTRACTOR SHALL COORDINATE WITH ALL PROPERTY OWNERS THAT HAVE TREES REMOVED ON THEIR PROPERTY AS PART OF THIS PROJECT PRIOR TO REMOVAL AND ALSO NOTIFY SAME OWNERS 24 HOURS IN ADVANCE OF MANDATORY TREE FENCING INSPECTION WITH THE COSA TREE INSPECTOR.

TREE PROTECTION LEGEND

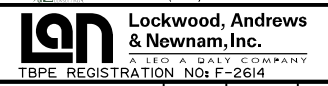
- TO BE REMOVED TREE
- TO BE PRESERVED TREE
- PROJECT LIMITS
- TREE FENCING WITH ARMORING (SEE TREE PROTECTION DETAILS)



04/08/2020

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11844 Bandera Rd. Suite 457
Helotes, TX 78023
(210) 326-3312



LEGEND	
PROP. SAN SEWER OPEN CUT	---
PROP. SAN SEWER PIPE BURST	---
EXIST. WATER MAIN	6"CL.W.
EXIST. GAS MAIN	2"
EXIST. SANITARY SEWER	8"
EXIST. STORM SEWER	24"ST
EXIST. UTILITY POLE	●
EXIST. ELECTRIC CABLE	E
EXIST. OVERHEAD ELECTRIC CABLE	OE
EXIST. UNDERGROUND TELEPHONE CABLE	UT
EXIST. SANITARY SEWER LATERAL	---

No.	Revision	Drawn	Approved	Date
1	Addendum 2	MWS	EMA	4/8/20

REVISIONS
MULTIPLE SEWERSHED PKG I2 OPEN CUT & PIPE BURSTING AM45 (DESERT VIEW) TREE PRESERVATION PLAN

DEVELOPER:	BUDGET PROJ.
CONT.	
SUBMITTED	
APPROVED	
MAP No. 188616	SHEET
SECT. No.	79
DR. MG CK. LH	JOB No. 18-4531

8:43:47 PM

4/8/2020

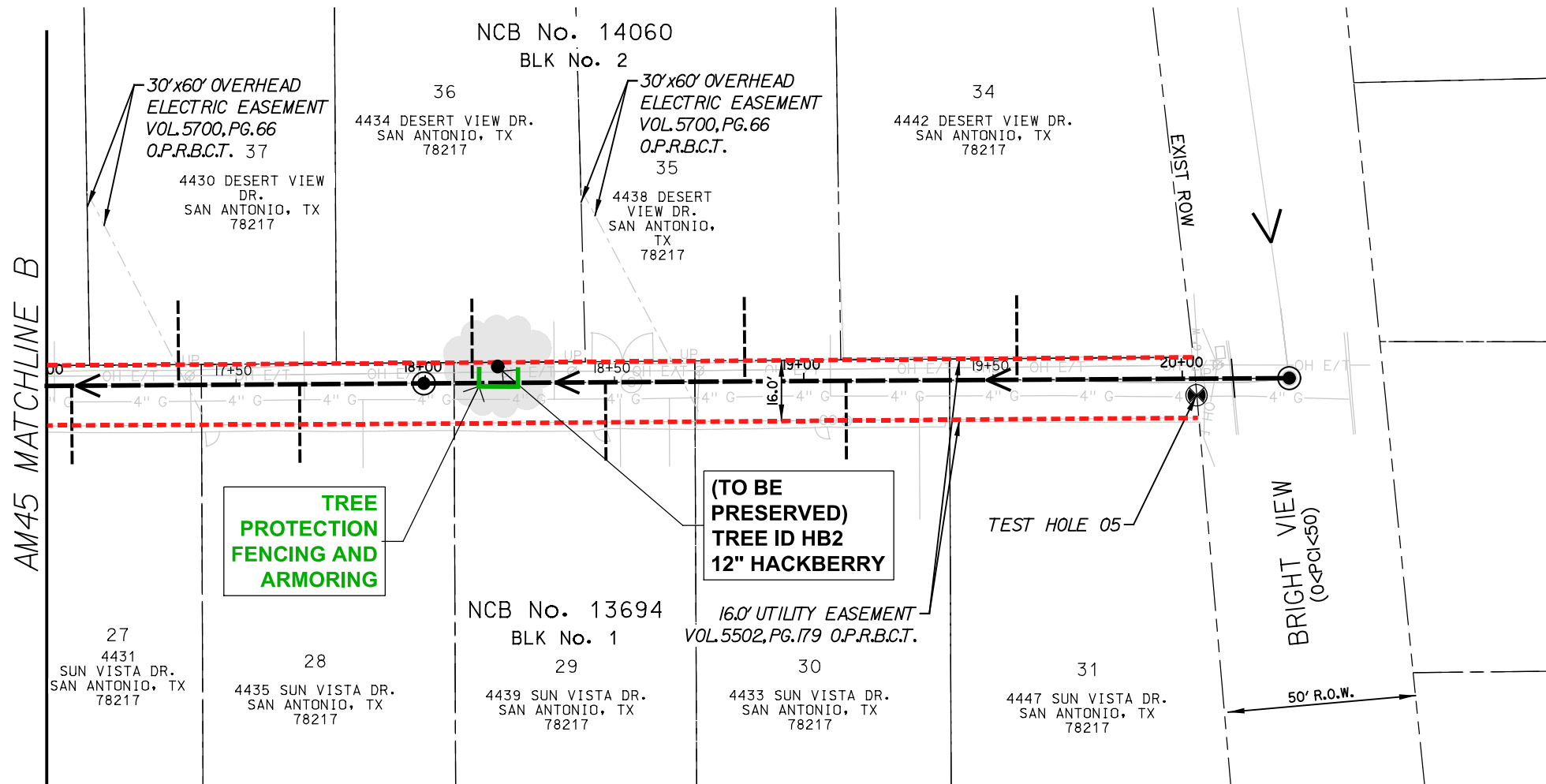
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4/8/2020

... \PB_OC_TPP_AM45_PLAN04.dgn

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	ESTIMATED QTY
801.2	LEVEL IIA PROTECTIVE FENCING	LF	25
801.3	LEVEL IIB PROTECTIVE FENCING	LF	7

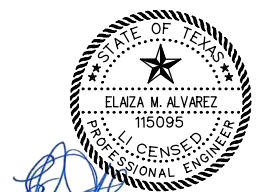
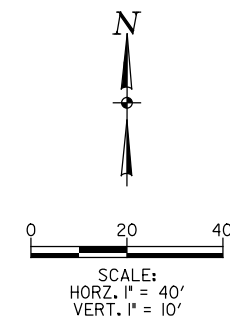


TREE PROTECTION FENCING AND ARMORING

**(TO BE PRESERVED)
TREE ID HB2
12" HACKBERRY**

- TREE PROTECTION LEGEND**
- TO BE REMOVED TREE
 - TO BE PRESERVED TREE
 - PROJECT LIMITS
 - TREE FENCING WITH ARMORING (SEE TREE PROTECTION DETAILS)

GENERAL TREE NOTE:
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04/08/2020

100% SUBMITTAL

LEGEND

PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	- - -
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" G —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	—
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	- - -

J & L Consulting
 11844 Bandera Rd. Suite 457
 Helotes, TX 78023
 (210) 326-3312

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

No.	Revision	Drawn	Approved	Date
1	Addendum 2	MWS	EMA	4/8/20

REVISIONS

DEVELOPER: BUDGET PROJ.

SUBMITTED: _____

APPROVED: _____

MAP No. 188616 SHEET 80

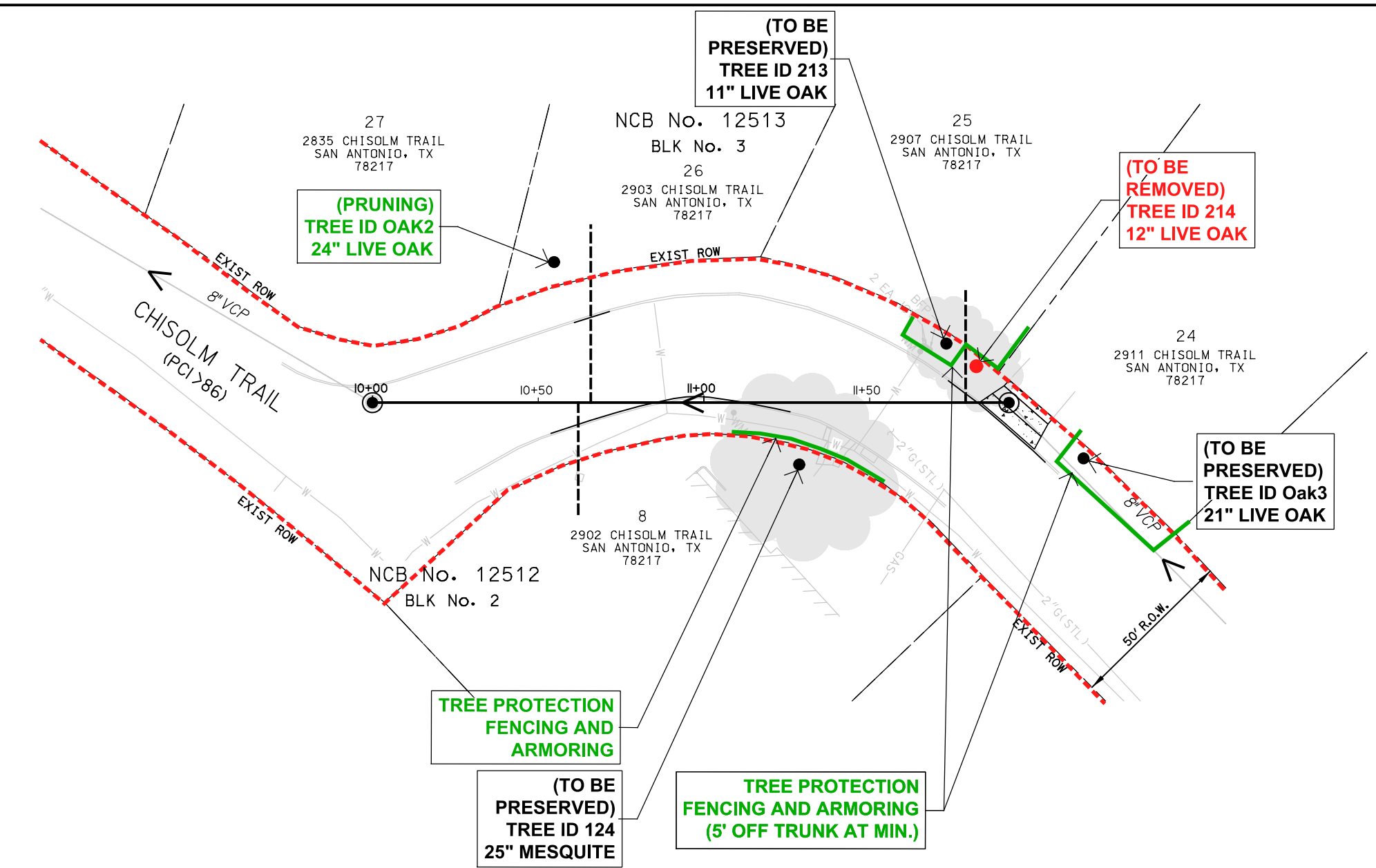
SECT. No. _____

DR. MG CK. LH JOB No. 18-4531

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4/8/2020

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ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	ESTIMATED QTY
801.2	LEVEL IIA PROTECTIVE FENCING	LF	175
801.3	LEVEL IIB PROTECTIVE FENCING	LF	20

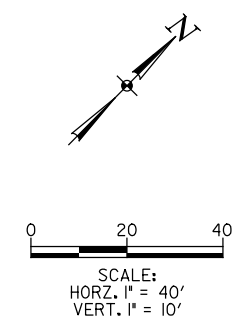


TREE PROTECTION LEGEND

- TO BE REMOVED TREE
- TO BE PRESERVED TREE
- - - PROJECT LIMITS
- TREE FENCING WITH ARMORING (SEE TREE PROTECTION DETAILS)

GENERAL TREE NOTE:
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SPECIAL COORDINATION NOTE:
 CONTRACTOR SHALL COORDINATE WITH ALL PROPERTY OWNERS THAT HAVE TREES REMOVED ON THEIR PROPERTY AS PART OF THIS PROJECT PRIOR TO REMOVAL AND ALSO NOTIFY SAME OWNERS 24 HOURS IN ADVANCE OF MANDATORY TREE FENCING INSPECTION WITH THE COSA TREE INSPECTOR.



[Signature]
 04/08/2020
 100% SUBMITTAL

LEGEND

PROP. SAN SEWER OPEN CUT	—
PROP. SAN SEWER PIPE BURST	- - -
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	— ● —
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	- - - -

J & L Consulting
 11844 Bandera Rd. Suite 457
 Helotes, TX 78023
 (210) 326-3312

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

No.	Revision	Drawn	Approved	Date
1	Addendum 2	MWS	EMA	4/8/20

REVISIONS

CSA MULTIPLE SEWERSHED PKG 12 OPEN CUT & PIPE BURSTING
 A041 TREE PRESERVATION PLAN

DEVELOPER: [Blank]
 CONT. BUDGET PROJ.
 SUBMITTED [Blank]
 APPROVED [Blank]
 MAP No. 176612
 SECT. No. [Blank]
 DR. MG CK. LH JOB No. 18-4531

SHEET 81

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	ESTIMATED QTY
801.2	LEVEL IIA PROTECTIVE FENCING	LF	24

8:45:51 PM

4/8/2020

(TO BE PRESERVED)
TREE ID 15029
12" CREPE MYRTLE

NCB No. 9892
BLK No. 10
14
567 BYRNES DRIVE
SAN ANTONIO, TX
78209

TREE PROTECTION FENCING

36
543 BYRNES DRIVE
SAN ANTONIO, TX
78209

NCB No. 9886
BLK No. 3
35
539 BYRNES DRIVE
SAN ANTONIO, TX
78209

TEST HOLE 10
34
535 BYRNES DRIVE
SAN ANTONIO, TX
78209

NCB No. 9892
BLK No. 10
1
602 OLNEY DRIVE
SAN ANTONIO, TX
78209

PANSY LANE
(PCI > 86)

45
550 OLNEY DRIVE
SAN ANTONIO, TX
78209

NCB No. 9886
BLK No. 3
44
544 OLNEY DRIVE
SAN ANTONIO, TX
78209

43
538 OLNEY DRIVE
SAN ANTONIO, TX
78209

PROPERTY FENCE

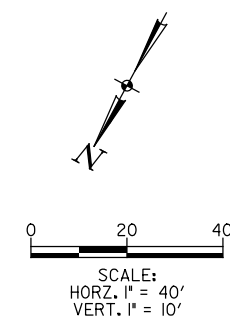
TEST HOLE 09
TEST HOLE 09A

TREE PROTECTION LEGEND

- TO BE REMOVED TREE
- TO BE PRESERVED TREE
- PROJECT LIMITS

GENERAL TREE NOTE:

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04/08/2020

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J & L Consulting
11844 Bandera Rd. Suite 457
Helotes, TX 78023
(210) 326-3312

LEGEND

PROP. SAN SEWER OPEN CUT	---
PROP. SAN SEWER PIPE BURST	---
EXIST. WATER MAIN	— 6" C.I.W. —
EXIST. GAS MAIN	— 2" —
EXIST. SANITARY SEWER	— 8" —
EXIST. STORM SEWER	— 24" ST —
EXIST. UTILITY POLE	—
EXIST. ELECTRIC CABLE	— E —
EXIST. OVERHEAD ELECTRIC CABLE	— OE —
EXIST. UNDERGROUND TELEPHONE CABLE	— UT —
EXIST. SANITARY SEWER LATERAL	---

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

No.	Revision	Drawn	Approved	Date
1	Addendum 2	MWS	EMA	4/8/20

REVISIONS
MULTIPLE SEWERSHED PKG 12
OPEN CUT & PIPE BURSTING
AT 42
TREE PRESERVATION PLAN

DEVELOPER: [Signature]
CONT. BUDGET PROJ.
SUBMITTED: [Signature]
APPROVED: [Signature]
MAP No. 178600
SECT. No. [Signature]
DR. MRG | CK, EMA | JOB No. 18-4531 | SHEET 82

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