



MULTIPLE SEWERSHED PACKAGE 18
Solicitation Number: CO-00389
SAWS Sewer Job No.: 20-4508

ADDENDUM 6
October 29, 2021

To Bidder of Record:

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

MODIFICATIONS TO PLANS

1. Sheet 2 - Replace plan sheet 2 dated 10/13/2021 with attached sheet 2 dated 10/28/2021.
2. Sheet 4 - Replace plan sheet 4 dated 10/13/2021 with attached sheet 4 dated 10/28/2021.
3. Sheet 10 - Replace plan sheet 10 dated 9/7/2021 with attached sheet 10 dated 10/28/2021.
4. Sheet 59 - Replace plan sheet 59 dated 9/7/2021 with attached sheet 59 dated 10/28/2021.
5. Sheet 65 - Replace plan sheet 65 dated 10/13/2021 with attached sheet 65 dated 10/28/2021.
6. Sheet 66 - Replace plan sheet 66 dated 10/13/2021 with attached sheet 66 dated 10/28/2021.
7. Sheet 67 - Replace plan sheet 67 dated 10/13/2021 with attached sheet 67 dated 10/28/2021.
8. Sheet 71 - Replace plan sheet 71 dated 9/7/2021 with attached sheet 71 dated 10/28/2021.
9. Sheet 79 - Replace plan sheet 79 dated 9/7/2021 with attached sheet 79 dated 10/28/2021.
10. Sheet 80 - Replace plan sheet 80 dated 10/13/2021 with attached sheet 80 dated 10/28/2021.
11. Sheet 95 - Replace plan sheet 95 dated 9/7/2021 with attached sheet 95 dated 10/28/2021.
12. Sheet 101 - Replace plan sheet 101 dated 9/7/2021 with attached sheet 101 dated 10/28/2021.
13. Sheet 120 - Replace plan sheet 120 dated 10/13/2021 with attached sheet 120 dated 10/28/2021.
14. Sheet 123A - Insert attached plan sheet 123A dated 10/28/2021.
15. Sheet 125 - Replace plan sheet 125 dated 9/7/2021 with attached sheet 125 dated 10/28/2021.

MODIFICATIONS TO SPECIFICATIONS

1. **Remove the Bid Proposal (BP-1 to BP-4) in its entirety and replace with the attached Bid Proposal (BP-1 to BP-4). Bidders shall use the revised bid proposal attached to this Addendum when submitting a bid for this project. Failure to do so may result in the bid being found non-responsive. The following items were updated:**
 - a. **Modified quantities for pay items SP164.1, SP 164.2, 851, 855, SP901.1, and 910.1.**
2. Add the following to the Special Conditions:
 - a. **SC 2.7 – SEWER EMERGENCY PROJECT AT LOCATION 5 LEON CREEK**
 1. Due to a collapse of the existing 54” and 66” sewer between Siphon Outlet ID 1228 and MH 33947 & MH 34286, contractor should anticipate additional debris in the lines downstream. Heavy cleaning is anticipated and should be included in contractor’s proposal for item 866 Sewer Main Television Inspection (27” and Larger).
 2. SAWS issued a contract for bypass pumping (“Spicewood Emergency Project – Bypass” Job No 21-4520) to be performed by others. Duration for bypass pumping may extend into February 2022.

Depending on Multiple Sewershed Package 18 contractor's planned schedule at this location, contractor will need to coordinate with bypass pumping contractor to maintain access for fueling, line watch, and maintenance as well as removal of bypass pumping equipment upon completion of bypass pumping for "Spicewood Emergency Project – Bypass".

3. SAWS issued a contract for sewer main repairs ("Spicewood Emergency Project – Sewer Main Repairs" Job No 21-4521) to be performed by others. Sewer main repairs are scheduled to be completed by mid-January 2022 and other associated work and restoration is scheduled to be completed by early March 2022. Depending on Multiple Sewershed Package 18 contractor's planned schedule at this location, contractor will need to coordinate with "Spicewood Emergency Project – Sewer Main Repairs" contractor to maintain access and workspace for completion of that contract.

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| CLARIFICATIONS |
|-----------------------|

1. The engineer's cost estimate for this project has been updated to \$9,392,045.00.
2. Due to a collapse of the existing 54" and 66" sewer between Siphon Outlet ID 1228 and MH 33947 & MH 34286, SAWS has issued an emergency project to be completed by others ("Spicewood Emergency Project – Sewer Main Repairs" SAWS Job No 21-4521) to replace the damaged pipe within those limits. Sewer main repairs are scheduled to be completed by mid-January and other associated work and restoration is scheduled to be completed by early March 2022. The sheets issued with this addendum have been revised to incorporate changes from the emergency project. As noted in this addendum, this results in reductions in length of televising and CIPP and associated manhole rehabilitation and adjustment pay items. The "Spicewood Emergency Project – Sewer Main Repairs" plans are attached to this addendum for contractor's information only.
3. SAWS has obtained limited CCTV of the segments downstream of the collapsed pipes showing the additional debris. To obtain a copy of the videos, Contractors must complete the disclaimer form at the following link on SAWS website: http://www.saws.org/business_center/ContractSol/. Please submit the form via email Janie Powell, Contract Administrator via email at Janie.Powell@saws.org. CCTV videos will be provided once the disclaimer form is submitted.
4. Restoration limits at Location 5 Leon Creek have increased due to the emergency project. Additional quantities for item SP 164.1 and SP164.2 have been added to the bid proposal.



Michael Persyn, P.E.
K Friese & Associates, Inc. (TBPE F-6535)



END OF ADDENDUM 6

This Addendum, including these two (2) pages, is twenty-one (21) pages with attachments in its entirety.

Attachments: Bid Proposal (BP-1 to BP-4)
Plan Sheets 2, 4, 10, 59, 65, 66, 67, 71, 79, 80, 95, 101, 120, 123A, 125

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 **365** 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

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

| Item No. | Spec No. | Bid Items Specification No. & Description | Unit | Qty. | Unit Price | Total Price |
|----------|----------|---|------|-------|------------|-------------|
| 1 | SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) – LOCATION 2 | SY | 10200 | \$ | \$ |
| 2 | SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) – LOCATION 3 | SY | 300 | \$ | \$ |
| 3 | SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) – LOCATION 4 | SY | 11000 | \$ | \$ |
| 4 | SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) – LOCATION 5 | SY | 26100 | \$ | \$ |
| 5 | SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) – LOCATION 2 | SY | 10200 | \$ | \$ |
| 6 | SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) – LOCATION 3 | SY | 300 | \$ | \$ |
| 7 | SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) – LOCATION 4 | SY | 11000 | \$ | \$ |
| 8 | SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) – LOCATION 5 | SY | 26100 | \$ | \$ |
| 9 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 1) | LS | 1 | \$ | \$ |
| 10 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 2) | LS | 1 | \$ | \$ |
| 11 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 3) | LS | 1 | \$ | \$ |
| 12 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 4) | LS | 1 | \$ | \$ |
| 13 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 5) | LS | 1 | \$ | \$ |
| 14 | SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 6) | LS | 1 | \$ | \$ |
| 15 | SP540 | TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC) | EA | 6 | \$ | \$ |
| 16 | 550 | TRENCH EXCAVATION SAFETY PROTECTION | LF | 120 | \$ | \$ |
| 17 | SP551 | TEMPORARY SPECIAL SHORING OF RECYCLED WATER LINE AT A-1 | LS | 1 | \$ | \$ |
| 18 | SP551 | TEMPORARY SPECIAL SHORING OF RECYCLED WATER LINE AT A-2 | LS | 1 | \$ | \$ |
| 19 | 851 | ADJUST EXISTING MANHOLES (NEW RING AND COVER) | EA | 20 | \$ | \$ |
| 20 | 852 | 4' DIA. SANITARY SEWER STRUCTURE (DOGHOUSE) | EA | 5 | \$ | \$ |
| 21 | SP853 | 72" DIA. TEE-BASE SANITARY SEWER MANHOLE A-1 | EA | 1 | \$ | \$ |
| 22 | SP853 | 54" DIA. TEE-BASE SANITARY SEWER MANHOLE A-2 | EA | 1 | \$ | \$ |
| 23 | SP855 | RECONSTRUCTION OF EXISTING MANHOLES | EA | 8 | \$ | \$ |
| 24 | SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1228 | EA | 1 | \$ | \$ |
| 25 | SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1089 | EA | 1 | \$ | \$ |
| 26 | SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 4588 | EA | 1 | \$ | \$ |
| 27 | SP862 | ABANDONMENT OF SEWER MANHOLE 47169 | EA | 1 | \$ | \$ |
| 28 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 1) | LS | 1 | \$ | \$ |
| 29 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 2) | LS | 1 | \$ | \$ |
| 30 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 3) | LS | 1 | \$ | \$ |
| 31 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 4) | LS | 1 | \$ | \$ |
| 32 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 5) | LS | 1 | \$ | \$ |
| 33 | SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 6) | LS | 1 | \$ | \$ |
| 34 | 866 | SEWER MAIN TELEVISION INSPECTION (8" TO 24") | LF | 1520 | \$ | \$ |
| 35 | 866 | SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) | LF | 15112 | \$ | \$ |

| Item No. | Spec No. | Bid Items Specification No. & Description | Unit | Qty. | Unit Price | Total Price |
|-------------------------|----------|--|------|------|--------------|--------------|
| 36 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (10") | LF | 1331 | \$ | \$ |
| 37 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (24") | LF | 189 | \$ | \$ |
| 38 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (30") | LF | 5731 | \$ | \$ |
| 39 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (36") | LF | 678 | \$ | \$ |
| 40 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (54") | LF | 4683 | \$ | \$ |
| 41 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (66") | LF | 1489 | \$ | \$ |
| 42 | SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (72") | LF | 2531 | \$ | \$ |
| 43 | SP910.1 | MANHOLE REHABILITATION (STANDARD MANHOLES UP TO 5' DIA.) | VF | 99 | \$ | \$ |
| 44 | SP910.2 | SEWER STRUCTURE REHABILITATION | SF | 9266 | \$ | \$ |
| 45 | SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE I) | LF | 500 | \$ | \$ |
| 46 | SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE II) | SF | 1968 | \$ | \$ |
| 47 | SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE III) | SF | 1968 | \$ | \$ |
| 48 | SS1020.1 | WILLOW SPRINGS GOLF COURSE RESTORATION ALLOWANCE | ALW | 1 | \$30,000.00 | \$30,000.00 |
| 49 | SS1020.2 | WILLOW SPRINGS GOLF COURSE HOLE CLOSURE ALLOWANCE | ALW | 1 | \$6,500.00 | \$6,500.00 |
| 50 | SS1020.3 | LOCATION 5 (LEON CREEK) POINT REPAIR ALLOWANCE | ALW | 1 | \$400,000.00 | \$400,000.00 |
| 51 | SS1020.4 | LOCATION 2 (FISHERS GLADE) BYPASS ALLOWANCE | ALW | 1 | \$100,000.00 | \$100,000.00 |
| 52 | SP1103.1 | POINT REPAIR (10") (18' AND GREATER DEPTH) | EA | 1 | \$ | \$ |
| 53 | SP1103.1 | POINT REPAIR (30") (10'-14' DEPTH) | EA | 1 | \$ | \$ |
| 54 | SP1103.1 | POINT REPAIR (30") (14'-18' DEPTH) | EA | 1 | \$ | \$ |
| 55 | SP1103.1 | POINT REPAIR (30") (18' AND GREATER DEPTH) | EA | 2 | \$ | \$ |
| 56 | SP1103.1 | POINT REPAIR (36") (10'-14' DEPTH) | EA | 1 | \$ | \$ |
| 57 | SP1103.1 | POINT REPAIR (54") (ALL DEPTHS) | EA | 1 | \$ | \$ |
| 58 | SP1103.2 | EXTRA LENGTH POINT REPAIRS (10") (ALL DEPTHS) | LF | 31 | \$ | \$ |
| 59 | SP1103.2 | EXTRA LENGTH POINT REPAIRS (30") (ALL DEPTHS) | LF | 21 | \$ | \$ |
| 60 | SP1103.2 | EXTRA LENGTH POINT REPAIRS (54") (ALL DEPTHS) | LF | 5 | \$ | \$ |
| 61 | SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (10") (ALL DEPTHS) | EA | 4 | \$ | \$ |
| 62 | SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (24" DIAMETER) (ALL DEPTHS) | EA | 1 | \$ | \$ |
| 63 | SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (27"-72" DIAMETER) (ALL DEPTHS) | EA | 27 | \$ | \$ |
| 64 | SP1109.1 | SERVICE RECONNECTION (INTERNAL) (ALL DEPTHS & SIZES) | EA | 5 | \$ | \$ |
| 65 | SS1850 | MANHOLE VENT | EA | 8 | \$ | \$ |
| 66 | SS4000 | TEMPORARY HAUL ROAD (LOCATION 2) | LS | 1 | \$ | \$ |
| 67 | SS4000 | TEMPORARY HAUL ROAD (LOCATION 3) | LS | 1 | \$ | \$ |
| 68 | SS4000 | TEMPORARY HAUL ROAD (LOCATION 4) | LS | 1 | \$ | \$ |
| 69 | SS4000 | TEMPORARY HAUL ROAD (LOCATION 5) | LS | 1 | \$ | \$ |
| SUBTOTAL (ITEMS 1 - 69) | | | | | \$ | |

| Item No. | Spec No. | Bid Items Specification No. & Description | Unit | Qty. | Unit Price | Total Price |
|----------|----------|---|------|------|------------|-------------|
| 70 | 100 | MOBILIZATION AND DEMOBILIZATION, MAX 10% OF LINE ITEMS 1-69 | LS | 1 | \$ | \$ |
| 71 | 101 | PREPARING ROW, MAX 5% OF LINE ITEMS 1-69 | LS | 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 1-69 AND 70-71) | \$ |
|---|----|

| SHEET NO | DESCRIPTION |
|----------|--|
| 1 | COVER SHEET |
| 2 | SHEET INDEX AND QUANTITIES |
| 3 | GENERAL NOTES |
| 4 | PROJECT SPECIFIC NOTES |
| 5 | TRAFFIC CONTROL PLAN - BYPASS PUMPING AND TRAFFIC CONTROL NOTES AND SIGN |
| 6 | PROJECT LAYOUT (1 OF 5) |
| 7 | PROJECT LAYOUT (2 OF 5) |
| 8 | PROJECT LAYOUT (3 OF 5) |
| 9 | PROJECT LAYOUT (4 OF 5) |
| 10 | PROJECT LAYOUT (5 OF 5) |
| 11 | CIPP - PROJECT LOCATION 1 - MARTINEZ CREEK |
| 12 | BYPASS - PROJECT LOCATION 1 - MARTINEZ CREEK |
| 13 | SWPPP - PROJECT LOCATION 1 - MARTINEZ CREEK |
| 14 | TRAFFIC CONTROL PLAN - PROJECT LOCATION 1 - IH-10 FRONTAGE ROAD AT W KINGS HWY |
| 15 | CIPP - PROJECT LOCATION 2 - FISHERS GLADE |
| 16 | BYPASS - PROJECT LOCATION 2 - FISHERS GLADE |
| 17 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 2 - FISHERS GLADE |
| 18 | SWPPP - PROJECT LOCATION 2 - FISHERS GLADE |
| 19 | CIPP OVERALL - PROJECT LOCATION 3 E HOUSTON ST / FM 1346 |
| 20 | CIPP - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (1 OF 4) |
| 21 | CIPP - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (2 OF 4) |
| 22 | CIPP - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (3 OF 4) |
| 23 | CIPP - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (4 OF 4) |
| 24 | BYPASS - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (1 OF 2) |
| 25 | BYPASS - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 - (2 OF 2) |
| 26 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 |
| 27 | SWPPP - PROJECT LOCATION 3 - E HOUSTON ST / FM 1346 |
| 28 | TRAFFIC CONTROL PLAN - PROJECT LOCATION 3 - HOUSTON ST AT SAINTS ARC ST |
| 29 | CIPP OVERALL - PROJECT LOCATION 4 - ROSILLO CREEK |
| 30 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (1 OF 13) |
| 31 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (2 OF 13) |
| 32 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (3 OF 13) |
| 33 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (4 OF 13) |
| 34 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (5 OF 13) |
| 35 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (6 OF 13) |
| 36 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (7 OF 13) |
| 37 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (8 OF 13) |
| 38 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (9 OF 13) |
| 39 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (10 OF 13) |
| 40 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (11 OF 13) |
| 41 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (12 OF 13) |
| 42 | CIPP - PROJECT LOCATION 4 - ROSILLO CREEK - (13 OF 13) |
| 43 | BYPASS - OVERALL - PROJECT LOCATION 4 - ROSILLO CREEK |
| 44 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (1 OF 6) |
| 45 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (2 OF 6) |
| 46 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (3 OF 6) |
| 47 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (4 OF 6) |
| 48 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (5 OF 6) |
| 49 | BYPASS - PROJECT LOCATION 4 - ROSILLO CREEK - (6 OF 6) |
| 50 | ACCESS AND TREE PROTECTION - OVERALL - PROJECT LOCATION 4 - ROSILLO CREEK |
| 51 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 4 - ROSILLO CREEK - (1 OF 4) |
| 52 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 4 - ROSILLO CREEK - (2 OF 4) |
| 53 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 4 - ROSILLO CREEK - (3 OF 4) |
| 54 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 4 - ROSILLO CREEK - (4 OF 4) |
| 55 | SWPPP OVERALL - PROJECT LOCATION 4 - ROSILLO CREEK |
| 56 | SWPPP - PROJECT LOCATION 4 - ROSILLO CREEK - (1 OF 3) |
| 57 | SWPPP - PROJECT LOCATION 4 - ROSILLO CREEK - (2 OF 3) |
| 58 | SWPPP - PROJECT LOCATION 4 - ROSILLO CREEK - (3 OF 3) |
| 59 | CIPP OVERALL - PROJECT LOCATION 5 - LEON CREEK 66" / 72" |
| 60 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (1 OF 11) |
| 61 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (2 OF 11) |
| 62 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (3 OF 11) |
| 63 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (4 OF 11) |
| 64 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (5 OF 11) |
| 65 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (6 OF 11) |
| 66 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (7 OF 11) |
| 67 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (8 OF 11) |
| 68 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (9 OF 11) |
| 69 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (10 OF 11) |
| 70 | CIPP - PROJECT LOCATION 5 - LEON CREEK 66" / 72" - (11 OF 11) |
| 71 | CIPP OVERALL - PROJECT LOCATION 5 - LEON CREEK 54" |
| 72 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (1 OF 13) |
| 73 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (2 OF 13) |
| 74 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (3 OF 13) |
| 75 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (4 OF 13) |
| 76 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (5 OF 13) |
| 77 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (6 OF 13) |
| 78 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (7 OF 13) |
| 79 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (8 OF 13) |
| 80 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (9 OF 13) |
| 81 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (10 OF 13) |
| 82 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (11 OF 13) |
| 83 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (12 OF 13) |

| SHEET NO | DESCRIPTION |
|----------|---|
| 84 | CIPP - PROJECT LOCATION 5 - LEON CREEK 54" - (13 OF 13) |
| 85 | BYPASS - OVERALL - PROJECT LOCATION 5 - LEON CREEK |
| 86 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (1 OF 7) |
| 87 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (2 OF 7) |
| 88 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (3 OF 7) |
| 89 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (4 OF 7) |
| 90 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (5 OF 7) |
| 91 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (6 OF 7) |
| 92 | BYPASS - PROJECT LOCATION 5 - LEON CREEK - (7 OF 7) |
| 93 | ACCESS AND TREE PROTECTION - OVERALL - PROJECT LOCATION 5 - LEON CREEK |
| 94 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 5 - LEON CREEK - (1 OF 5) |
| 95 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 5 - LEON CREEK - (2 OF 5) |
| 96 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 5 - LEON CREEK - (3 OF 5) |
| 97 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 5 - LEON CREEK - (4 OF 5) |
| 98 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 5 - LEON CREEK - (5 OF 5) |
| 99 | SWPPP OVERALL - PROJECT LOCATION 5 - LEON CREEK |
| 100 | SWPPP - PROJECT LOCATION 5 - LEON CREEK - (1 OF 3) |
| 101 | SWPPP - PROJECT LOCATION 5 - LEON CREEK - (2 OF 3) |
| 102 | SWPPP - PROJECT LOCATION 5 - LEON CREEK - (3 OF 3) |
| 103 | CIPP OVERALL - PROJECT LOCATION 6 - WILLOW SPRINGS |
| 104 | CIPP - PROJECT LOCATION 6 - WILLOW SPRINGS - (1 OF 4) |
| 105 | CIPP - PROJECT LOCATION 6 - WILLOW SPRINGS - (2 OF 4) |
| 106 | CIPP - PROJECT LOCATION 6 - WILLOW SPRINGS - (3 OF 4) |
| 107 | CIPP - PROJECT LOCATION 6 - WILLOW SPRINGS - (4 OF 4) |
| 108 | BYPASS OVERALL - PROJECT LOCATION 6 - WILLOW SPRINGS |
| 109 | BYPASS - PROJECT LOCATION 6 - WILLOW SPRINGS - (1 OF 3) |
| 110 | BYPASS - PROJECT LOCATION 6 - WILLOW SPRINGS - (2 OF 3) |
| 111 | BYPASS - PROJECT LOCATION 6 - WILLOW SPRINGS - (3 OF 3) |
| 112 | ACCESS AND TREE PROTECTION - PROJECT LOCATION 6 - WILLOW SPRINGS |
| 113 | SWPPP - PROJECT LOCATION 6 - WILLOW SPRINGS |
| 114 | TRAFFIC CONTROL PLAN - PROJECT LOCATION 6 - AT&T PARKWAY |
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| 136 | BC(9)-14 (9 OF 12) |
| 137 | BC(10)-14 (10 OF 12) |
| 138 | BC(11)-14 (11 OF 12) |
| 139 | BC(12)-14 (12 OF 12) |

| TOTAL ESTIMATED QUANTITIES | | | |
|----------------------------|---|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| 100 | MOBILIZATION (MAX 10% OF THE TOTAL OF BID ITEMS) | LS | 1 |
| 101 | PREPARING RIGHT-OF-WAY (MAX 5% OF THE TOTAL OF BID ITEMS) | LS | 1 |
| SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) - LOCATION 2 | SY | 10200 |
| SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) - LOCATION 3 | SY | 300 |
| SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) - LOCATION 4 | SY | 11000 |
| SP164.1 | DRILL SEEDING (PERM) (TXDOT SPEC) - LOCATION 5 | SY | 26100 |
| SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) - LOCATION 2 | SY | 10200 |
| SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) - LOCATION 3 | SY | 300 |
| SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) - LOCATION 4 | SY | 11000 |
| SP164.2 | CELLULOSE FIBER MULCH (TXDOT SPEC) - LOCATION 5 | SY | 26100 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 1) | LS | 1 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 2) | LS | 1 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 3) | LS | 1 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 4) | LS | 1 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 5) | LS | 1 |
| SP530.1 | BARRICADES, SIGNS, AND TRAFFIC HANDLING (PROJECT LOCATION 6) | LS | 1 |
| SP540 | TEMPORARY EROSION, SEDIMENT, AND WATER POLLUTION PREVENTION AND CONTROL (COSA SPEC) | EA | 6 |
| 550 | TRENCH EXCAVATION SAFETY PROTECTION | LF | 120 |
| SP551 | TEMPORARY SPECIAL SHORING OF RECYCLED WATER LINE AT A-1 | LS | 1 |
| SP551 | TEMPORARY SPECIAL SHORING OF RECYCLED WATER LINE AT A-2 | LS | 1 |
| 851 | ADJUST EXISTING MANHOLES (NEW RING AND COVER) | EA | 20 |
| 852 | 4" DIA. SANITARY SEWER STRUCTURE (DOGHOUSE) | EA | 5 |
| SP853 | 72" DIA. TEE-BASE SANITARY SEWER MANHOLE A-1 | EA | 1 |
| SP853 | 54" DIA. TEE-BASE SANITARY SEWER MANHOLE A-2 | EA | 1 |
| SP855 | RECONSTRUCTION OF EXISTING MANHOLES | EA | 8 |
| SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1228 | EA | 1 |
| SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1089 | EA | 1 |
| SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 4588 | EA | 1 |
| SP862 | ABANDONMENT OF SEWER MANHOLE 47169 | EA | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 1) | LS | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 2) | LS | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 3) | LS | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 4) | LS | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 5) | LS | 1 |
| SP864-S2 | BYPASS PUMPING (LARGE DIAMETER SANITARY SEWERS) (PROJECT LOCATION 6) | LS | 1 |
| 866 | SEWER MAIN TELEVISION INSPECTION (8" TO 24") | LF | 1520 |
| 866 | SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) | LF | 15112 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (10") | LF | 1331 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (24") | LF | 189 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (30") | LF | 5731 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (36") | LF | 678 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (54") | LF | 4683 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (66") | LF | 1489 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (72") | LF | 2531 |
| SP910.1 | MANHOLE REHABILITATION (STANDARD MANHOLES UP TO 5' DIA.) | VF | 99 |
| SP910.2 | SEWER STRUCTURE REHABILITATION | SF | 9266 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE I) | LF | 500 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE II) | SF | 1968 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE III) | SF | 1968 |
| SS1020.1 | WILLOW SPRINGS GOLF COURSE RESTORATION ALLOWANCE | ALW | 1 |
| SS1020.2 | WILLOW SPRINGS GOLF COURSE HOLE CLOSURE ALLOWANCE | ALW | 1 |
| SS1020.3 | LOCATION 5 (LEON CREEK) POINT REPAIR ALLOWANCE | ALW | 1 |
| SS1020.4 | LOCATION 2 (FISHERS GLADE) BYPASS ALLOWANCE | ALW | 1 |
| SP1103.1 | POINT REPAIR (10") (18' AND GREATER DEPTH) | EA | 1 |
| SP1103.1 | POINT REPAIR (30") (10'-14' DEPTH) | EA | 1 |
| SP1103.1 | POINT REPAIR (30") (14'-18' DEPTH) | EA | 1 |
| SP1103.1 | POINT REPAIR (30") (18' AND GREATER DEPTH) | EA | 2 |
| SP1103.1 | POINT REPAIR (36") (10'-14' DEPTH) | EA | 1 |
| SP1103.1 | POINT REPAIR (54") (ALL DEPTHS) | EA | 1 |
| SP1103.2 | EXTRA LENGTH POINT REPAIRS (10") (ALL DEPTHS) | LF | 31 |
| SP1103.2 | EXTRA LENGTH POINT REPAIRS (30") (ALL DEPTHS) | LF | 21 |
| SP1103.2 | EXTRA LENGTH POINT REPAIRS (54") (ALL DEPTHS) | LF | 5 |
| SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (10") (ALL DEPTHS) | EA | 4 |
| SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (24" DIAMETER) (ALL DEPTHS) | EA | 1 |
| SP1103.3 | OBSTRUCTION REMOVAL BY REMOTE DEVICE (27"-72" DIAMETER) (ALL DEPTHS) | EA | 27 |
| SP1109.1 | SERVICE RECONNECTION (INTERNAL) (ALL DEPTHS & SIZES) | EA | 5 |
| SS1850 | MANHOLE VENT | EA | 8 |
| SS4000 | TEMPORARY HAUL ROAD (LOCATION 2) | LS | 1 |
| SS4000 | TEMPORARY HAUL ROAD (LOCATION 3) | LS | 1 |
| SS4000 | TEMPORARY HAUL ROAD (LOCATION 4) | LS | 1 |
| SS4000 | TEMPORARY HAUL ROAD (LOCATION 5) | LS | 1 |

SP = SPECIAL PROVISION TO STANDARD SPECIFICATION. REFER TO CONTRACT DOCUMENTS FOR DETAILS.
 SS = SPECIAL SPECIFICATION. REFER TO CONTRACT DOCUMENTS FOR DETAILS.
 SEE SHEET 4 FOR QUANTITY RELATED NOTES.



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10/28/2021

| No. | Revision | Drawn | Approved | Date |
|-----|------------|-------|----------|----------|
| △ | Addendum 6 | AF | MP | 10/28/21 |
| △ | Addendum 3 | AF | MP | 10/13/21 |

REVISIONS

MULTIPLE SEWERSHED PACKAGE 18

SHEET INDEX AND QUANTITIES

DEVELOPER: _____

CONT. _____ **BUDGET PROJ.** _____

SUBMITTED _____

APPROVED _____

| | | | |
|----------------|------------|----------------|-----------------------|
| MAP No. | | SHEET | 2 |
| DR. | CK. | JOB No. | 20-4508 OF 139 |

0707_INDEX-QUANTITIES.dgn modified by afischer on 10/28/2021 - 12:29:45 PM

SEWER REHABILITATION NOTES:

- THESE PLANS WERE PREPARED WITH LIMITED ON THE GROUND SURVEY. AERIAL IMAGERY MAY NOT REFLECT ALL RECENT IMPROVEMENTS. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- PROFILES SHOWN IN PLANS FOR CIPP SEGMENTS ARE BASED ON BEST INFORMATION AVAILABLE. INVERTS ARE BASED ON SAWS GIS DATA AND WERE NOT VERIFIED BY SURVEY AT ALL LOCATIONS. INFORMATION IS PROVIDED TO ASSIST CONTRACTOR WITH PLANNING INSTALLATION. SLIGHT DISCREPANCIES WITH MANHOLE ELEVATIONS MAY BE ENCOUNTERED; CONTRACTOR SHALL FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, GRADES, AND SERVICE LATERALS BEFORE START OF CONSTRUCTION.
- ALL POINT REPAIRS MUST BE CONFIRMED AND APPROVED BY SAWS AND DESIGN ENGINEER VIA PRE-TELEVISION PRIOR TO CONSTRUCTION.
- CONTROL NOISE LEVEL DURING NIGHT HOURS IN ACCORDANCES WITH CITY OF SAN ANTONIO NOISE ORDINANCES, EXCEPT AS MODIFIED BELOW. CONSTRUCTION ACTIVITIES AND EQUIPMENT FOR ACTIVITIES BETWEEN THE HOURS OF 6 P.M. AND 7 A.M. SHALL BE EQUIPPED WITH ACOUSTICAL ENCLOSURES TO LIMIT NOISE LEVEL TO 56 DECIBELS WHEN MEASURED AT ADJACENT RESIDENTIAL PROPERTY LINE OR 63 DECIBELS WHEN MEASURED AT ADJACENT BUSINESS ZONED PROPERTY LINE. DAYTIME NOISE LEVELS (7 A.M. TO 6 P.M.) SHALL NOT EXCEED 80 DECIBELS WHEN MEASURED AT NEAREST PROPERTY LINE.
- SOME SANITARY SEWER SEGMENTS PROPOSED FOR REHABILITATION ARE IN CLOSE PROXIMITY TO BUSINESSES. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED ENTITIES AND PROVIDE AT LEAST SEVEN (7) DAYS ADVANCE NOTICE PRIOR TO COMMENCING WORK IN THE AREA. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES. INTERRUPTION OF SERVICE, IF ANY, SHALL BE KEPT TO A MINIMUM AND SCHEDULED TO OCCUR AT A MUTUALLY AGREEABLE TIME OR AFTER HOURS. THE CONTRACTOR SHALL MAINTAIN SANITARY SEWER SERVICE TO RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL ACQUIRE HIS OWN STAGING AREA (INCLUDING PARKING FOR CONSTRUCTION PERSONNEL VEHICLES). REFER TO SPECIAL CONDITIONS FOR REQUIREMENTS FOR STAGING AREAS ON PRIVATE PROPERTY.
- CONSTRUCTION SEQUENCING: CONTRACTOR IS ADVISED THAT CERTAIN SEGMENTS IMPACT SAN ANTONIO RIVER AUTHORITY (SARA) CONTROLLED CREEKS/RIVERS, SCHOOLS, CITY OF SAN ANTONIO (COSA) PARKS, AND GOLF COURSES. CONTRACTOR IS REQUIRED TO COORDINATE WITH THESE ENTITIES IN ADVANCE AND SCHEDULE WORK IN ACCORDANCE WITH THE LIMITATIONS INDICATED IN THE PLANS FOR THESE SEGMENTS. REFER TO SPECIAL CONDITIONS FOR ADDITIONAL REQUIREMENTS FOR SEQUENCING.
COSA PARKS: MS. SANDY JENKINS AT 210-207-2721
WILLOW SPRINGS GOLF COURSE: MR. JAKE SNYMAN AT 210-908-5927
- CONTRACTOR SHALL BE AWARE THAT PROPOSED CIPP WILL LINE THROUGH MINOR JOINT OFFSETS, MINOR SAGS, AND OTHER MINOR PIPE DEFECTS. MORE SIGNIFICANT DEFECTS THAT NEED TO BE LINED THROUGH ARE SPECIFICALLY CALLED OUT IN THE PLANS OR ARE PROPOSED TO BE POINT REPAIRED.
- LIMITS OF CONSTRUCTION IN PUBLIC ROW ARE LIMITED TO "APPARENT ROW" LABELED ON PLANS UNLESS NOTED OTHERWISE. LIMITS OF CONSTRUCTION ON PRIVATE PROPERTY SHALL BE PER THE TERMS OF THE RIGHT OF ENTRY AGREEMENTS IN THE CONTRACT DOCUMENTS. WHERE RIGHT OF ENTRY DOCUMENTS ARE NOT INCLUDED IN THE CONTRACT DOCUMENTS, CONTRACTOR SHALL LIMIT ACTIVITIES TO THE EXISTING SEWER EASEMENT SHOWN IN THE PLANS OR PROCURE APPROVAL FROM THE PROPERTY OWNER AT HIS OWN EXPENSE.
- CONTRACTOR SHALL RESTORE ACCESS ROUTES TO PRECONSTRUCTION CONDITIONS (SUBSIDIARY TO SPECIAL SPECIFICATION 4000) AND SHALL USE NATIVE DRILL SEEDING MIX ACCORDING TO SPECIAL PROVISION TO TXDOT SPECIFICATION 164. EXISTING DIRT AND GRAVEL ROADS DO NOT REQUIRE RESEEDING UPON COMPLETION.
- REHABILITATED MANHOLES SHALL RECEIVE A NEW RING AND COVER TO MATCH THE EXISTING DIAMETER PER ITEM NO. 851 AS INDICATED IN THE DRAWINGS. RECONSTRUCTED MANHOLES SHALL RECEIVE A NEW 32" COVER, REGARDLESS OF EXISTING COVER SIZE. NOTE THAT SOME MANHOLE COVERS WITHIN THE PROJECT LIMITS HAVE BEEN UPGRADED TO THE CURRENT STANDARDS BY SAWS. THESE MANHOLES WILL NOT REQUIRE A NEW RING AND COVER UNDER ITEM 851. CONTRACTOR TO REPORT ANY DISCREPANCIES IN MANHOLE LID REPLACEMENTS TO ENGINEER AND SAWS INSPECTOR.
- NEW MANHOLES INSTALLED FOR BYPASS SUCTION POINTS SHALL BE CONSTRUCTED PER SAWS STD DWG DD-852-01 AND DD-850-01. CONTRACTOR SHALL SUBMIT DETAILS FOR DOGHOUSE MANHOLE INSTALLATION AS PART OF SUBMITTAL PROCESS.
- MANHOLE RECONSTRUCTION INDICATED IN PLANS IS BASED ON AN ESTIMATED LOCATION FOR CIPP LINER INSERTION, UNLESS SPECIFICALLY NOTED TO BE RAISED ABOVE THE FLOODPLAIN FOR VENTING. CONTRACTOR MAY MODIFY LOCATIONS FOR CIPP LINER INSERTION TO SUIT HIS OPERATIONS SUBJECT TO APPROVAL BY ENGINEER TO VERIFY COMPLIANCE WITH ROW PERMIT. ALTERNATE INSERTION LOCATIONS PROPOSED BY CONTRACTOR THAT REQUIRE MODIFICATIONS TO THE TRAFFIC CONTROL, BYPASS PLANS, OR PAVEMENT RESTORATION QUANTITIES SHALL BE AT CONTRACTOR'S EXPENSE.
- INSTANCES WHERE OBSTRUCTION REMOVALS AND POINT REPAIRS WERE IDENTIFIED IN THE DESIGN CCTV ARE NOTED IN THE PLANS. DUE TO THE AGE AND CONDITION OF THE AVAILABLE VIDEOS, ADDITIONAL POINT REPAIR AND OBSTRUCTION REMOVAL ITEMS HAVE BEEN ADDED TO THE OVERALL PROJECT QUANTITIES. NOTE THAT THE OBSTRUCTION REMOVAL PAY ITEMS ARE INCLUSIVE OF ALL POTENTIAL OBSTRUCTIONS THAT MAY BE ENCOUNTERED AND WILL BE PAID FOR BY PIPE SEGMENT AND NOT BY EACH INSTANCE OF OBSTRUCTION REMOVAL. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- LOCATION OF PROPOSED MANHOLE A-1 AT PROJECT LOCATION 5 (LEON CREEK) IS APPROXIMATE. REFER TO NOTE ON SHEET 60 REGARDING ADJUSTMENTS IN MANHOLE LOCATION BASED ON FIELD VERIFICATION OF RECYCLED WATER LINE JOINTS. TOTAL ESTIMATED QUANTITIES ON SHEET 2 FOR ITEM 866 AND ITEM SP 901.1 FOR 72" PIPE INCLUDE 25 LINEAR FEET OF ADDITIONAL PIPE IF NEEDED DUE TO ADJUSTMENT.
- RECYCLE WATER LINE AT LOCATION 5 (LEON CREEK) REMAINS ACTIVE THROUGHOUT THE YEAR EXCEPT FOR LIMITED MAINTENANCE SHUT DOWNS. REFER TO SPECIAL CONDITIONS FOR ADDITIONAL DETAILS. WATER LINE IS ASSUMED TO OPERATE AT APPROXIMATELY 120 PSL. CONTRACTOR SHALL USE EXTREME CAUTION DURING EXCAVATION NEAR RECYCLED WATER LINE. PROTECTIVE MEASURES (NSPI) ARE REQUIRED WHEN DRIVING OVER/NEAR RECYCLE WATER LINE DUE TO LIMITED DEPTH OF LINE.
- IN ACCORDANCE WITH ADDENDUM 2, ALL MENTIONS OF ITEM SS910 SHALL BE UNDERSTOOD TO BE ITEM SP910, AND ALL MENTIONS OF ITEM SP851 SHALL BE UNDERSTOOD TO BE ITEM 851. ALL MENTIONS OF ITEM 866 SHALL BE UNDERSTOOD TO BE ITEM SP866.

TCI STORM WATER ENGINEERING NOTES:

- WORK WITHIN THE 100-YEAR FLOODPLAIN OR CITY OF SAN ANTONIO DRAINAGE CHANNELS IS SUBJECT TO THE TERMS OF THE FLOODPLAIN DEVELOPMENT PERMIT ISSUED BY THE CITY. A COPY OF THIS PERMIT IS INCLUDED IN THE BID DOCUMENTS FOR THE CONTRACTOR'S USE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS.
- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
- BYPASS LINES IN STORMWATER CHANNELS SHALL BE IN ACCORDANCE WITH THE APPROVED FLOODPLAIN DEVELOPMENT PERMIT. BYPASS LINE PLACED ABOVE GROUND SHALL BE ANCHORED TO MINIMIZE MOVEMENT AND POTENTIAL FOR FAILURE. CONTRACTOR SHALL INCLUDE MEANS OF ANCHORING IN HIS BYPASS SUBMITTAL PER ITEM SP864. CONTRACTOR SHALL KEEP VEGETATION MOWED TO 8 INCHES OR LESS WITHIN 20 FEET ON EITHER SIDE OF BYPASS LINE TO INCREASE VISIBILITY OF THE LINE FOR COSA MOWING OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY, OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORE PITS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORE PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL.
- IMPROVED SECTIONS OF EARTHEN CHANNELS AND/OR WATERWAYS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.
- ALL DISTURBED SOIL IN THE 100-YEAR FLOODPLAIN SHALL BE REGRADED, COMPACTED, AND VEGETATED TO PRE-PROJECT CONDITIONS.

BEXAR COUNTY STORMWATER NOTES (LOCATION 2):

- THE CONTRACTOR SHALL NOTIFY BEXAR COUNTY INSPECTOR (ETHAN SPIERLING, ETHAN.SPIERLING@BEXAR.ORG, 210-216-6932) AT LEAST 48 HOURS BEFORE THE FOLLOWING WORK:
 - START OF CONSTRUCTION
 - INSTALLATION OF SEDIMENT AND EROSION CONTROL BMPs
 - COMPLETION OF SITE CLEARING
 - COMPLETION OF FINAL GRADING
 - CLOSE OF THE CONSTRUCTION
 - COMPLETION OF FINAL STABILIZATION OR LANDSCAPING

COSA PARKS NOTES:

- THE CONTRACTOR SHALL MAINTAIN TRAIL OPERATIONS DURING COSA PARK HOURS. IF TRAILS ARE TO BE DISRUPTED FOR ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY COSA AT 210-207-2721 PRIOR TO COMMENCING ANY WORK ACTIVITY.
- THE CONTRACTOR SHALL AVOID DAMAGE OF ANY KIND TO THE COSA TRAILS AND SHALL MINIMIZE ENCROACHMENT ON THE TRAILS DURING CONSTRUCTION. ANY DAMAGED TRAILS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY COSA PARKS AT 210-207-2721 A MINIMUM OF TWO WEEKS PRIOR TO STARTING CONSTRUCTION AND 48 HOURS PRIOR TO MOBILIZING EQUIPMENT.
- CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF THE PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
- WHERE BURIED, CONTRACTOR SHALL BURY BYPASS PIPES CROSSING PARK TRAILS, BEGINNING AND ENDING, AT A MINIMUM OF 10 FEET FROM TRAIL EDGES.
- ANY TEMPORARY SURFACE OR PATCH ON THE TRAILS SHALL BE COARSE AND SLI RESISTANT. NO TRAIL SHALL BE TEMPORARILY OR PERMANENTLY COVERED OR PATCHED WITH A SURFACE THAT IS SUSCEPTIBLE TO SLIPPING (I.E. STEEL PLATES, PLASTIC SHEETING, ETC.).
- CONTRACTOR SHALL PROVIDE ADVANCED WARNING ALONG COSA TRAIL IN BOTH DIRECTIONS, NOTIFYING PEDESTRIANS OF CONSTRUCTION WORK ZONE AHEAD. ADVANCED WARNING AND SIGNAGE SHALL FOLLOW CURRENT MUTCD DESIGN GUIDELINES FOR TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL USE FLAGGERS (NSPI) AT ALL TIMES WHILE CONSTRUCTION ACTIVITIES ARE NEAR AND/OR CROSSING COSA PARK TRAILS AS AN ADDITIONAL MEANS OF PROTECTING THE PUBLIC.



MANHOLE VENTING TABLE

| LOCATION | SHEET NO. | STATION | MH NO. | OPENING DIA.* | MANHOLE WITHIN FLOODPLAIN | RIM ELEV. BELOW FLOOD ELEV. |
|----------|-----------|----------|---------|---------------|---------------------------|-----------------------------|
| 4 | 32 | 12+52.36 | 44793 | 24" | NO | NO |
| | 39 | 54+66.38 | 1024859 | 30" | NO | NO |
| 5 | 60 | 7+85.72 | A-1 | 30" | YES | NO |
| | 63 | 21+39.51 | 47167 | 30" | NO | NO |
| | 72 | 4+58.74 | 33948 | 24" | NO | NO |
| | 74 | 13+60.00 | A-2 | 30" | YES | NO |
| | 77 | 24+16.73 | 47168 | 30" | NO | NO |
| | 81 | 43+85.91 | 34240 | 24" | NO | NO |

* MH OPENING DIAMETER LISTED IS EXISTING

NOTES:

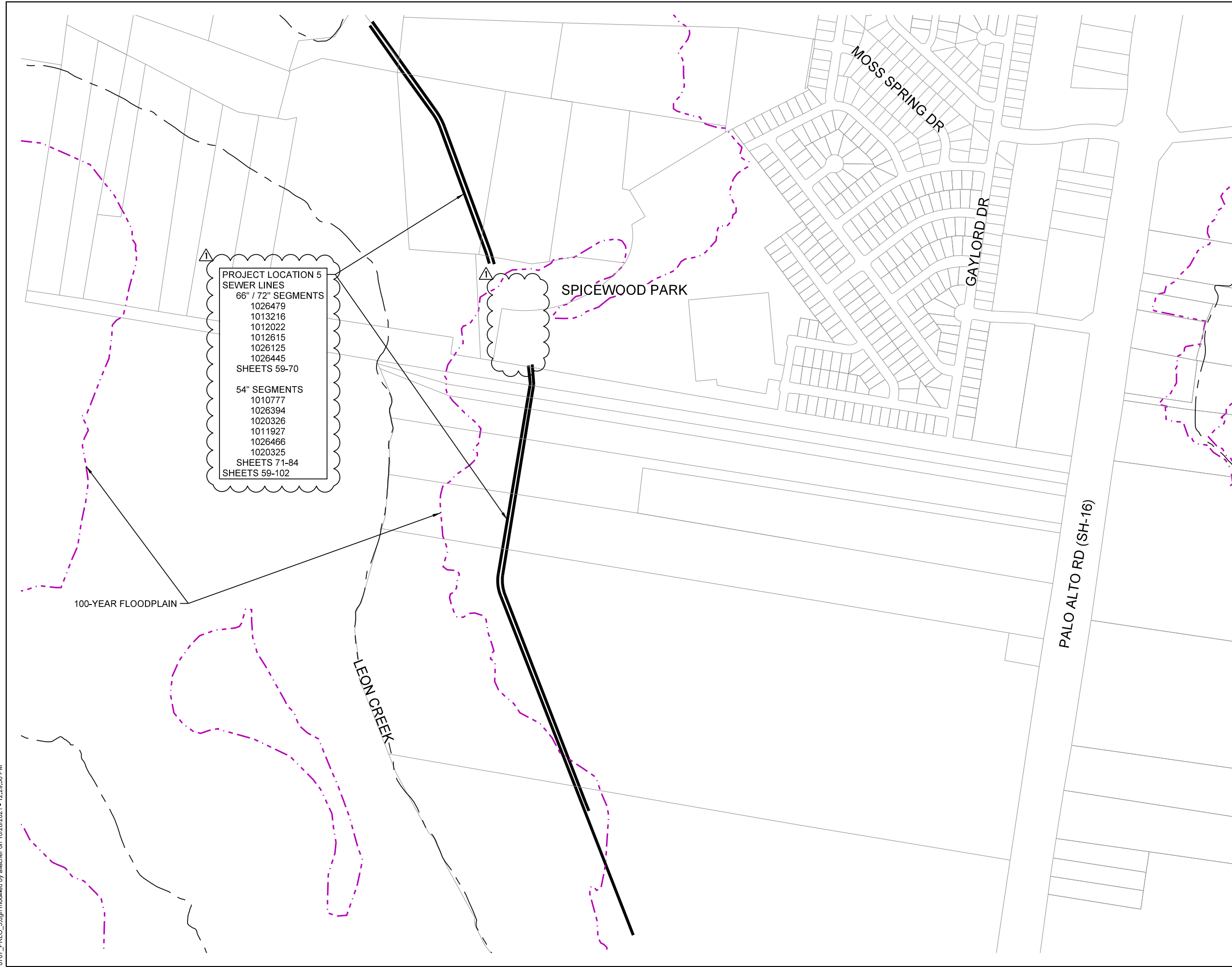
- ALL MANHOLES ON THIS PROJECT SHALL BE WATERTIGHT.
- SEE SHEET 120 FOR VENTING DETAILS.



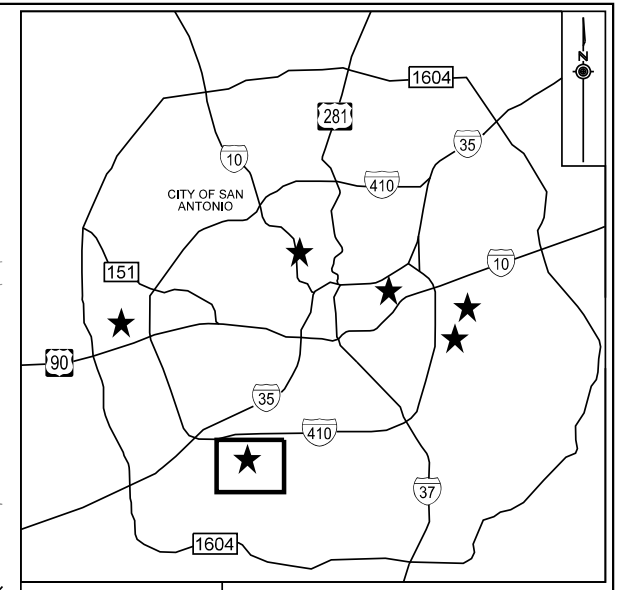
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| | Addendum 6 | AF | MP | 10/28/21 |
| | Addendum 3 | AF | MP | 10/13/21 |
| No. | Revision | Drawn | Approved | Date |

| | |
|------------------|---|
| REVISIONS | |
| | MULTIPLE SEWERSHED PACKAGE 18 PROJECT SPECIFIC NOTES |

| | |
|-----------------|--------------|
| DEVELOPER: | |
| CONT. | BUDGET PROJ. |
| SUBMITTED _____ | |
| APPROVED _____ | |
| MAP No. | SHEET |
| SECT. No. | 4 |
| DR. | CK. |
| JOB No. | 20-4508 |
| OF | 139 |



- PROJECT LOCATION 5
SEWER LINES**
- 66" / 72" SEGMENTS
 - 1026479
 - 1013216
 - 1012022
 - 1012615
 - 1026125
 - 1026445
 - SHEETS 59-70
- 54" SEGMENTS
 - 1010777
 - 1026394
 - 1020326
 - 1011927
 - 1026466
 - 1020325
 - SHEETS 71-84
 - SHEETS 59-102



★ PROJECT LOCATION
LOCATION MAP
NOT TO SCALE



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+ ASSOCIATES**
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TBP# Firm Number 6535
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| No. | Revision | Drawn | Approved | Date |
|-----|------------|-------|----------|----------|
| ▲ | Addendum 6 | AF | MP | 10/28/21 |

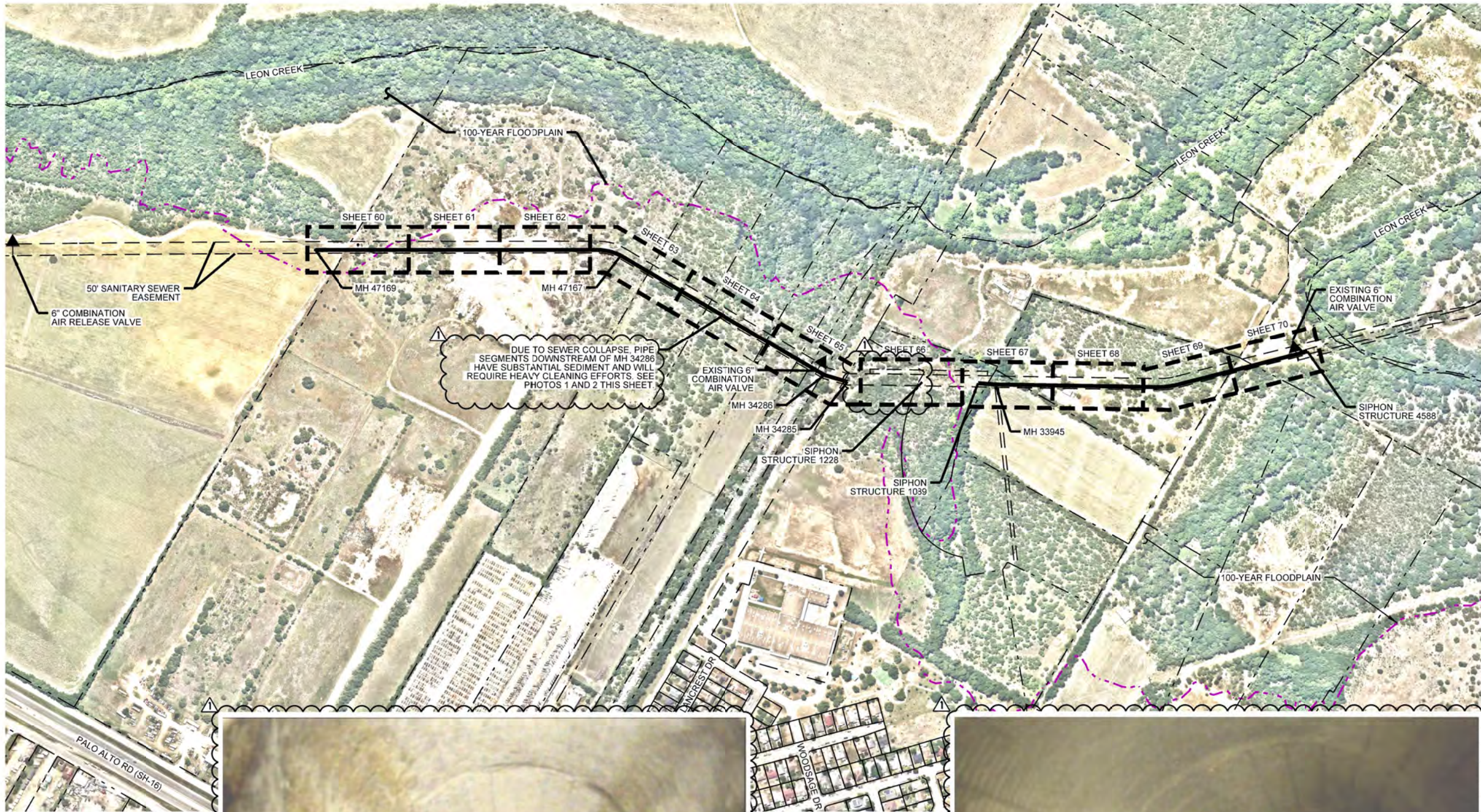
REVISIONS

STA **W&S**

MULTIPLE SEWERSHED
PACKAGE 18
PROJECT LAYOUT (5 OF 5)

DEVELOPER: _____
 CONT. BUDGET PROJ.
 SUBMITTED _____
 APPROVED _____
 MAP No. _____ SHEET
 SECT. No. _____ 10
 DR. CK. JOB No. 20-4508 OF 139

0707_PRL0_5.dgn modified by aifischer on 10/28/2021 - 12:29:50 PM



LEGEND

- WASTEWATER LINE TO BE REHABILITATED
- PROPERTY LINE
- CREEK CENTERLINE
- 100-YEAR FLOODPLAIN LIMITS

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 10001 Reunion Place
 Suite 404
 San Antonio, Texas 78216
 P 210.491.2391 F 512.338.1784
 TBP# Firm Number 6535
 www.kfriese.com

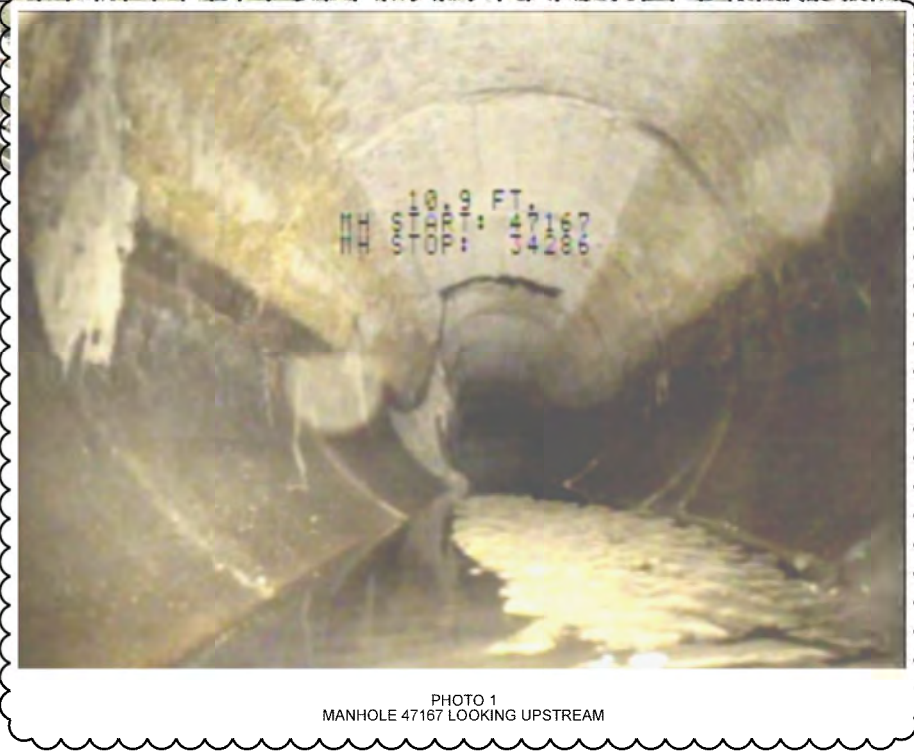


PHOTO 1
MANHOLE 47167 LOOKING UPSTREAM



PHOTO 2
MANHOLE 34286 LOOKING DOWNSTREAM

| | | | | |
|-----|------------|-------|----------|----------|
| No. | Revision | Drawn | Approved | Date |
| ▲ | Addendum 6 | AF | MP | 10/28/21 |

REVISIONS

MULTIPLE SEWERSHED PACKAGE 18
 CIPP OVERALL PROJECT LOCATION 5
 LEON CREEK 66" / 72"

DEVELOPER: _____
 CONT. BUDGET PROJ. _____
 SUBMITTED _____
 APPROVED _____
 MAP No. _____
 SECT. No. _____
 DR. CK. JOB No. 20-4508

SHEET
59
OF 139

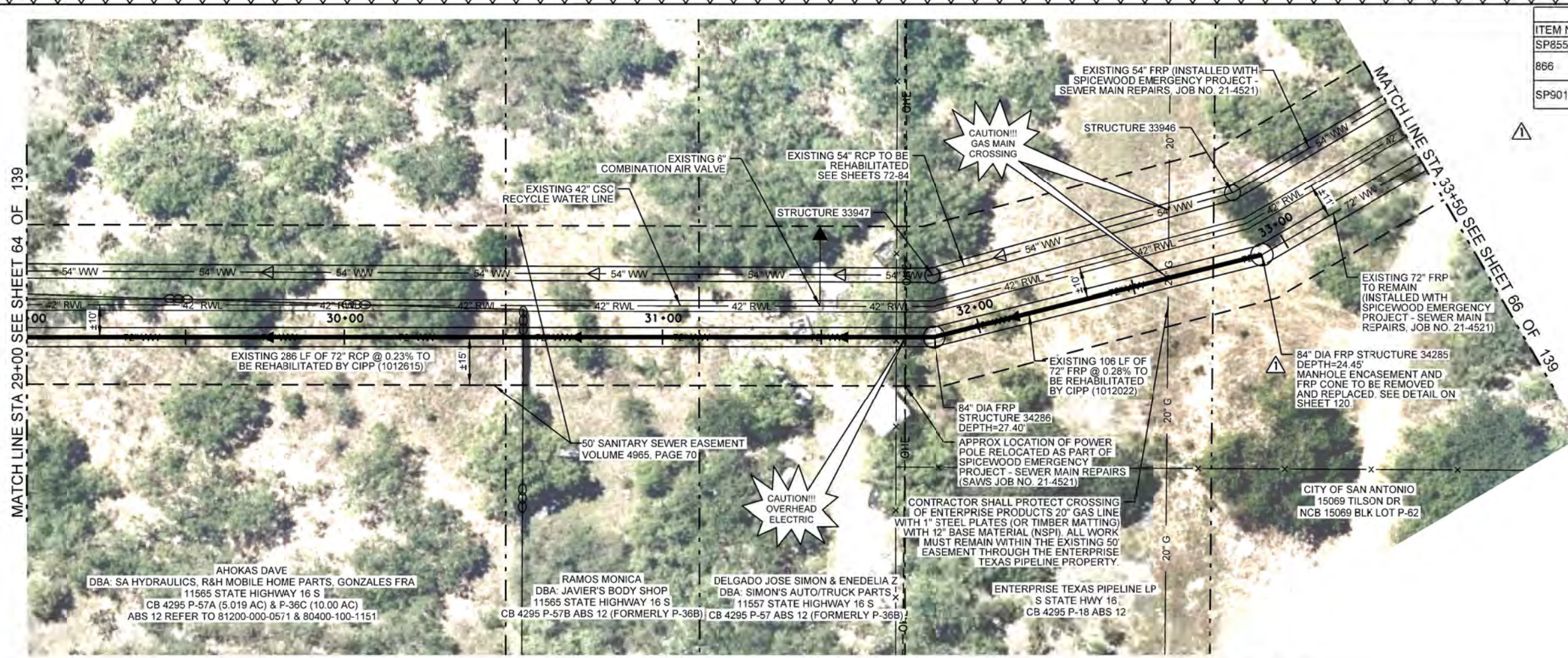
0707_PP_LEON_CREEK_LARGE_OVERALL.dgn modified by afischer on 10/28/2021 12:31:50 PM

| ESTIMATED QUANTITIES | | | |
|----------------------|--|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| SP855 | RECONSTRUCTION OF EXISTING MANHOLES | EA | 1 |
| 866 | SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) | LF | 392 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (72") | LF | 392 |

- NOTES:**
- CONTRACTOR SHALL PROTECT ENTERPRISE GAS PRODUCTS PER NOTES THIS SHEET. ENTERPRISE PRODUCTS REPRESENTATIVE IS REQUIRED TO BE ON SITE FOR ANY EXCAVATION WITHIN 20 FEET OF THE GAS LINE. CONTRACTOR SHALL PROVIDE TWO WEEKS NOTICE TO ENTERPRISE REPRESENTATIVE FOR EXCAVATION. CONTACT: BRIAN THORNTON
PHONE: 830-312-0436
EMAIL: BDTHORNTON@EPROD.COM
 - CONTRACTOR SHALL LIMIT ACTIVITIES TO EXISTING SAWS' EASEMENT WHERE CROSSING ENTERPRISE PIPELINES PROPERTY.

LEGEND

- EXISTING FIRE HYDRANT
- WASTEWATER LINE TO BE REHABILITATED
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM DRAIN
- EXISTING WATERLINE
- EXISTING RECYCLE WATERLINE
- EXISTING WASTEWATER LINE
- EXISTING GAS LINE
- EXISTING EASEMENT LINE
- PROPERTY LINE
- 100-YEAR FLOODPLAIN LIMITS
- EXISTING WIRE FENCE
- EXISTING CHAINLINK FENCE



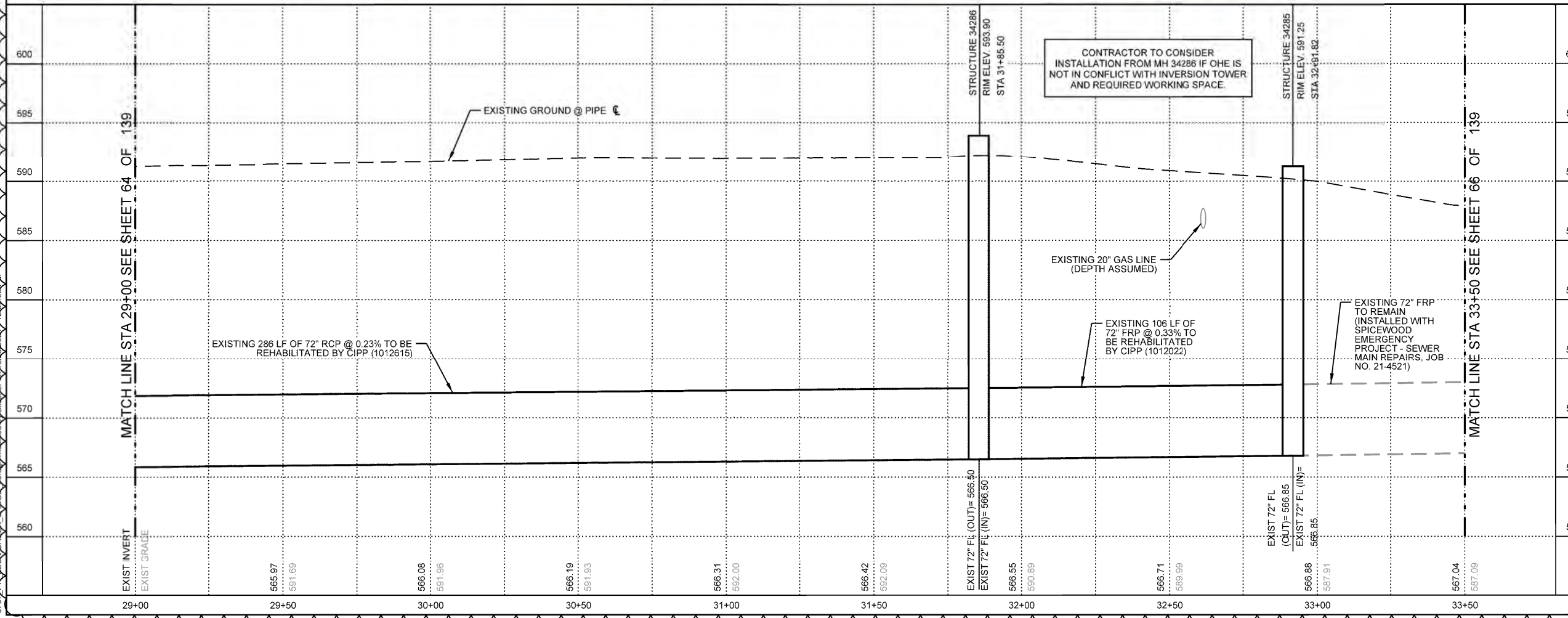
AHOKAS DAVE
DBA: SA HYDRAULICS, R&H MOBILE HOME PARTS, GONZALES FRA
11565 STATE HIGHWAY 16 S
CB 4295 P-57A (5.019 AC) & P-36C (10.00 AC)
ABS 12 REFER TO 81200-000-0571 & 80400-100-1151

RAMOS MONICA
DBA: JAVIER'S BODY SHOP
11565 STATE HIGHWAY 16 S
CB 4295 P-57B ABS 12 (FORMERLY P-36B)

DELGADO JOSE SIMON & ENEDELIA Z
DBA: SIMON'S AUTO/TRUCK PARTS
11557 STATE HIGHWAY 16 S
CB 4295 P-57 ABS 12 (FORMERLY P-36B)

ENTERPRISE TEXAS PIPELINE LP
S STATE HWY 16
CB 4295 P-18 ABS 12

CITY OF SAN ANTONIO
15069 TILSON DR
NCB 15069 BLK LOT P-62



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P 210.491.2391 F 512.338.1784
TSPC Firm Number 8535
www.kfriese.com

MICHAEL PERSYN
LICENSED PROFESSIONAL ENGINEER
96583
10/28/2021

| No. | Revision | Drawn | Approved | Date |
|-----|------------|-------|----------|----------|
| 6 | Addendum 6 | AF | MP | 10/28/21 |
| 3 | Addendum 3 | AF | MP | 10/13/21 |

REVISIONS
MULTIPLE SEWERSHED PACKAGE 18
CIPP
PROJECT LOCATION 5
LEON CREEK 66" / 72"
(6 OF 11)

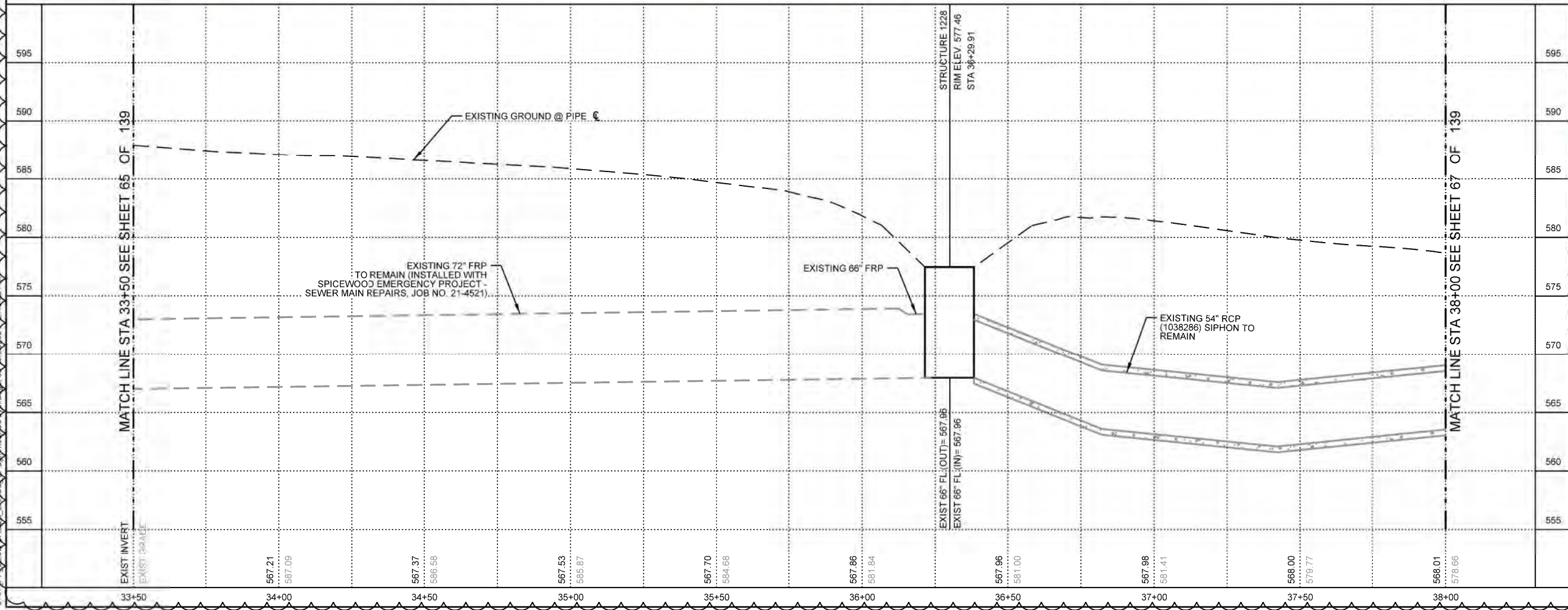
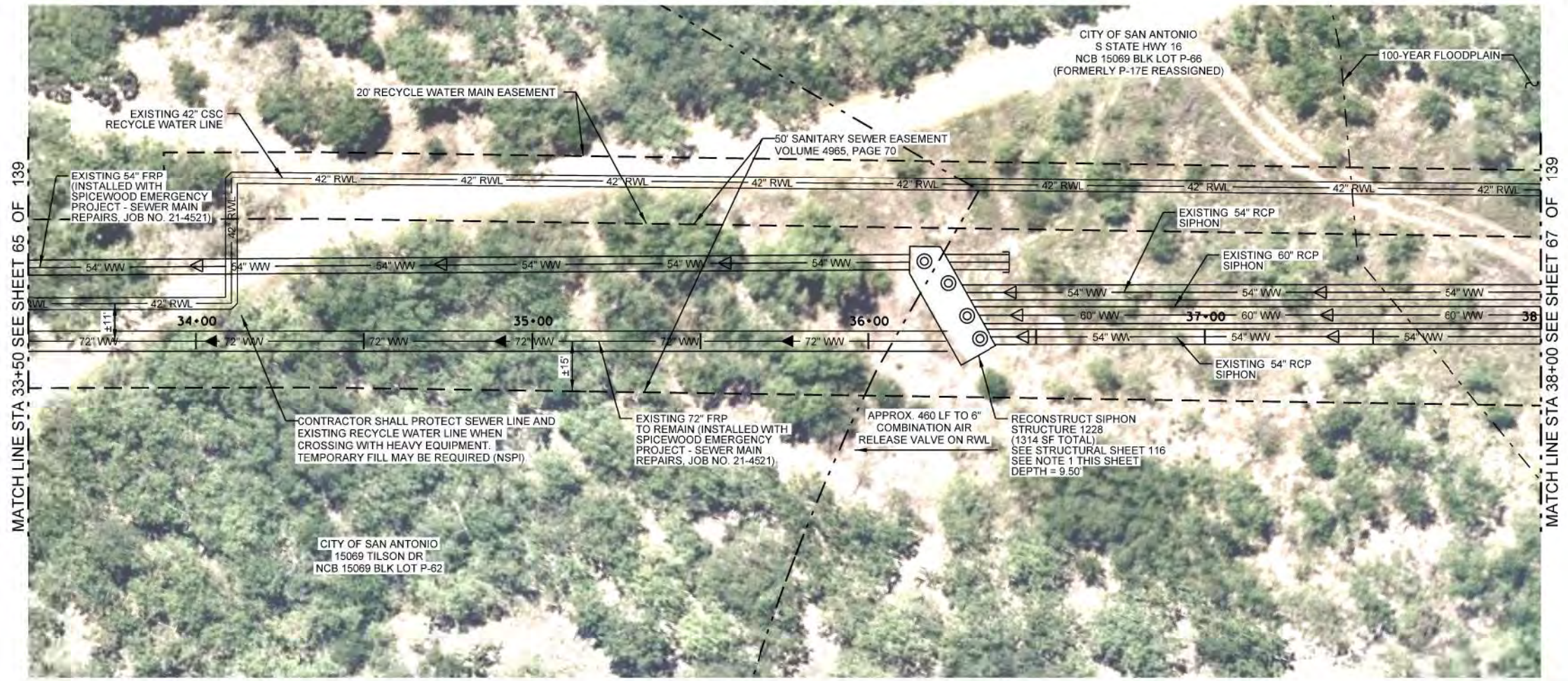
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|------------|----------|--------------|----------------|
| DEVELOPER: | | BUDGET PROJ. | |
| SUBMITTED | | APPROVED | |
| MAP No. | SHEET 65 | | |
| DR. | CK. | JOB No. | 20-4508 OF 139 |

| ESTIMATED QUANTITIES | | | |
|----------------------|--|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1228 | EA | 1 |
| SP910.2 | SEWER STRUCTURE REHABILITATION | SF | 1314 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE II) | SF | 657 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE III) | SF | 657 |

NOTES
 1. SIPHON STRUCTURE REPAIR (IF REQUIRED) WILL BE PAID FOR UNDER ITEM 910.3 PER APPLICABLE REPAIR REQUIREMENTS. SIPHON STRUCTURE COATING WILL BE PAID FOR UNDER ITEM 910.2. LIMITS AND TYPE OF SIPHON STRUCTURE REPAIR REQUIRED TO BE FIELD VERIFIED AFTER DEWATERING AND CLEANING STRUCTURE. REFER TO ITEM 952 REPAIR AND REHABILITATION OF CAST-IN-PLACE CONCRETE.

LEGEND

- EXISTING FIRE HYDRANT
- WASTEWATER LINE TO BE REHABILITATED
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM DRAIN
- EXISTING WATERLINE
- EXISTING RECYCLE WATERLINE
- EXISTING WASTEWATER LINE
- EXISTING GAS LINE
- EXISTING EASEMENT LINE
- PROPERTY LINE
- 100-YEAR FLOODPLAIN LIMITS
- EXISTING WIRE FENCE
- EXISTING CHAINLINK FENCE



HORIZONTAL SCALE
0 20' 40'

VERTICAL SCALE
0 5' 10'

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Michael Persyn

STATE OF TEXAS
 MICHAEL PERSYN
 96583
 LICENSED PROFESSIONAL ENGINEER
 10/28/2021

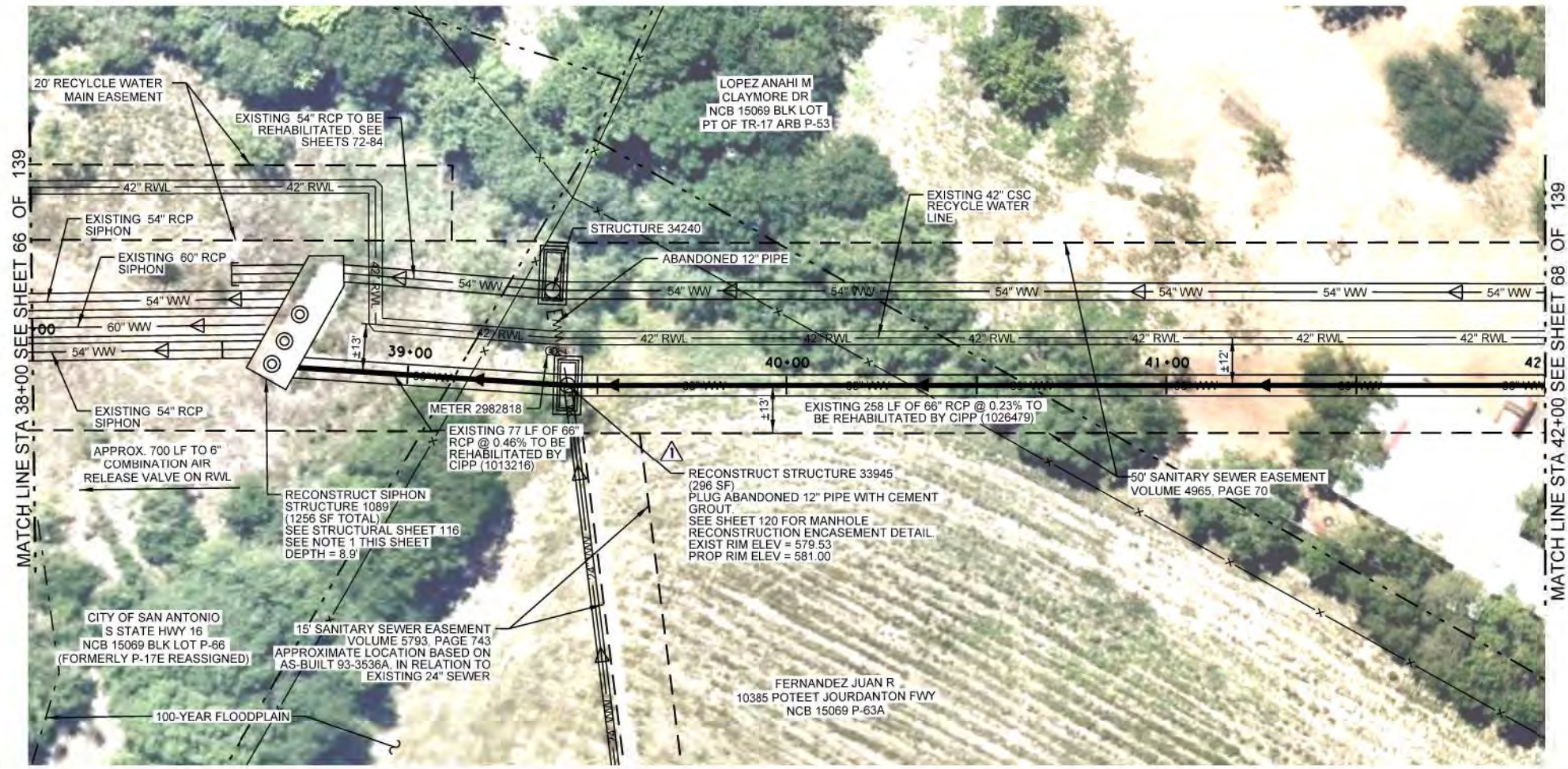
| No. | Revision | Drawn | Approved | Date |
|-----|------------|-------|----------|----------|
| △ | Addendum 6 | AF | MP | 10/28/21 |
| △ | Addendum 3 | AF | MP | 10/13/21 |

REVISIONS

MULTIPLE SEWERSHED PACKAGE 18
 CIPP
 PROJECT LOCATION 5
 LEON CREEK 66" / 72"
 (7 OF 11)

| | |
|-----------------|--------------|
| DEVELOPER: | |
| CONT. | BUDGET PROJ. |
| SUBMITTED | |
| APPROVED | |
| MAP No. | SHEET |
| SECT. No. | 66 |
| DR. | CK. |
| JOB No. 20-4508 | |
| OF 139 | |

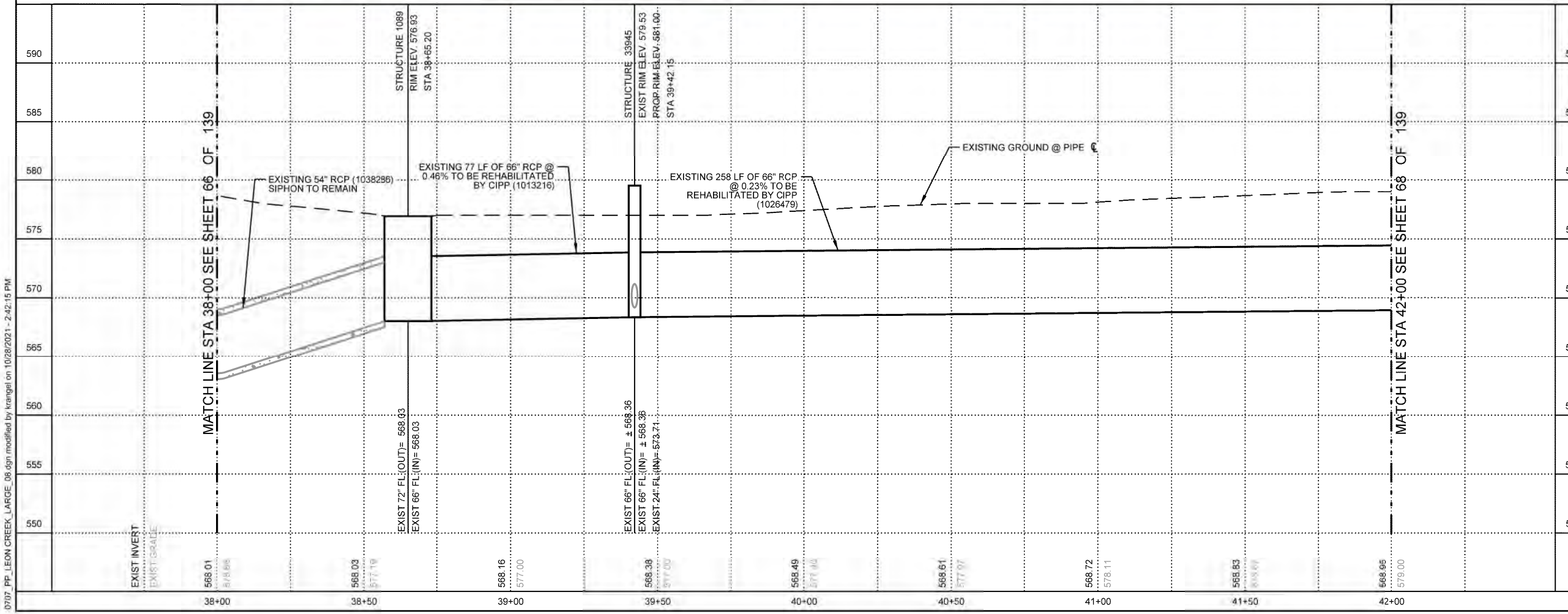
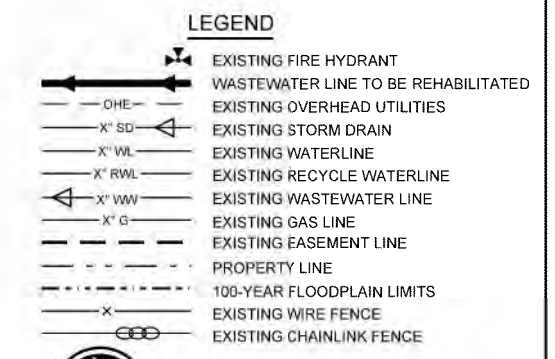
0707_PP_LEON_CREEK_LARGE_08.dgn modified by kragel on 10/28/2021 - 2:42:15 PM



| ESTIMATED QUANTITIES | | | |
|----------------------|---|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| SP855 | RECONSTRUCTION OF EXISTING MANHOLES | EA | 1 |
| SP855.1 | RECONSTRUCTION OF SIPHON STRUCTURE 1089 | EA | 1 |
| 866 | SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) | LF | 335 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER, 66") | LF | 335 |
| SP910.2 | SEWER STRUCTURE REHABILITATION (TYPE II) | SF | 1256 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE II) | SF | 628 |
| SP910.3 | SEWER SIPHON STRUCTURE REHABILITATION (TYPE III) | SF | 628 |

NOTES

1. SIPHON STRUCTURE REPAIR (IF REQUIRED) WILL BE PAID FOR UNDER ITEM 910.3 PER APPLICABLE REPAIR REQUIREMENTS. SIPHON STRUCTURE COATING WILL BE PAID FOR UNDER ITEM 910.2. LIMITS AND TYPE OF SIPHON STRUCTURE REPAIR REQUIRED TO BE FIELD VERIFIED AFTER DEWATERING AND CLEANING STRUCTURE. REFER TO ITEM 952 REPAIR AND REHABILITATION OF CAST-IN-PLACE CONCRETE.



HORIZONTAL SCALE
0 20' 40'

VERTICAL SCALE
0 5' 10'

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| No. | Revision | Drawn | Approved | Date |
| △ | Addendum 6 | AF | MP | 10/28/21 |
| △ | Addendum 3 | AF | MP | 10/13/21 |

REVISIONS

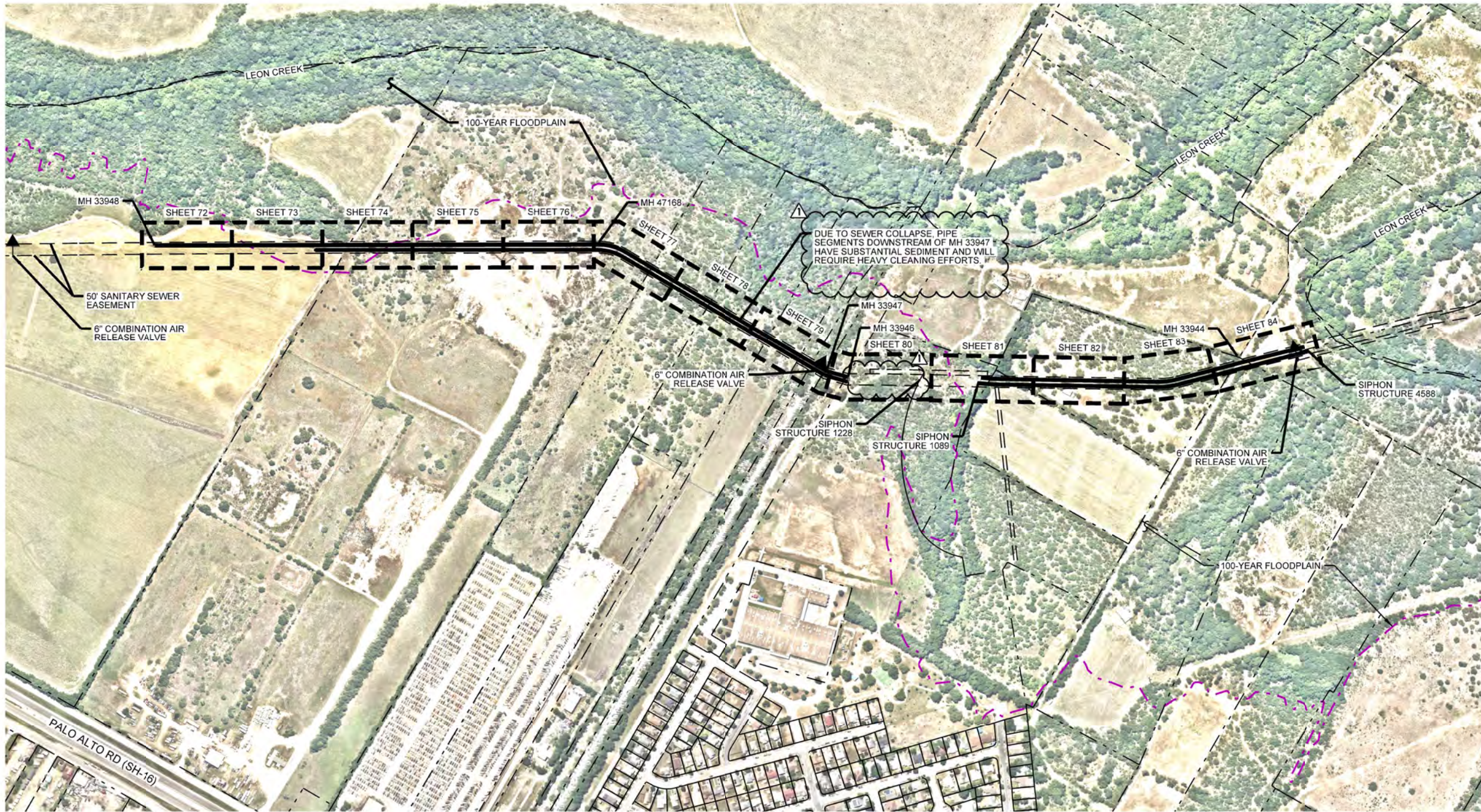
MULTIPLE SEWERSHED PACKAGE 18
CIPP
PROJECT LOCATION 5
LEON CREEK 66" / 72"
(8 OF 11)

DEVELOPER: BUDGET PROJ.

SUBMITTED

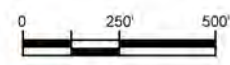
APPROVED

| | | | | |
|---------|-----------|-----|-----|-----------------|
| MAP No. | SECT. No. | DR. | CK. | JOB No. 20-4508 |
| | | | | SHEET 67 OF 139 |



LEGEND

- WASTEWATER LINE TO BE REHABILITATED
- PROPERTY LINE
- CREEK CENTERLINE
- 100-YEAR FLOODPLAIN LIMITS




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|-----|------------|-------|----------|----------|
| △ | Addendum 6 | AF | MP | 10/28/21 |

REVISIONS



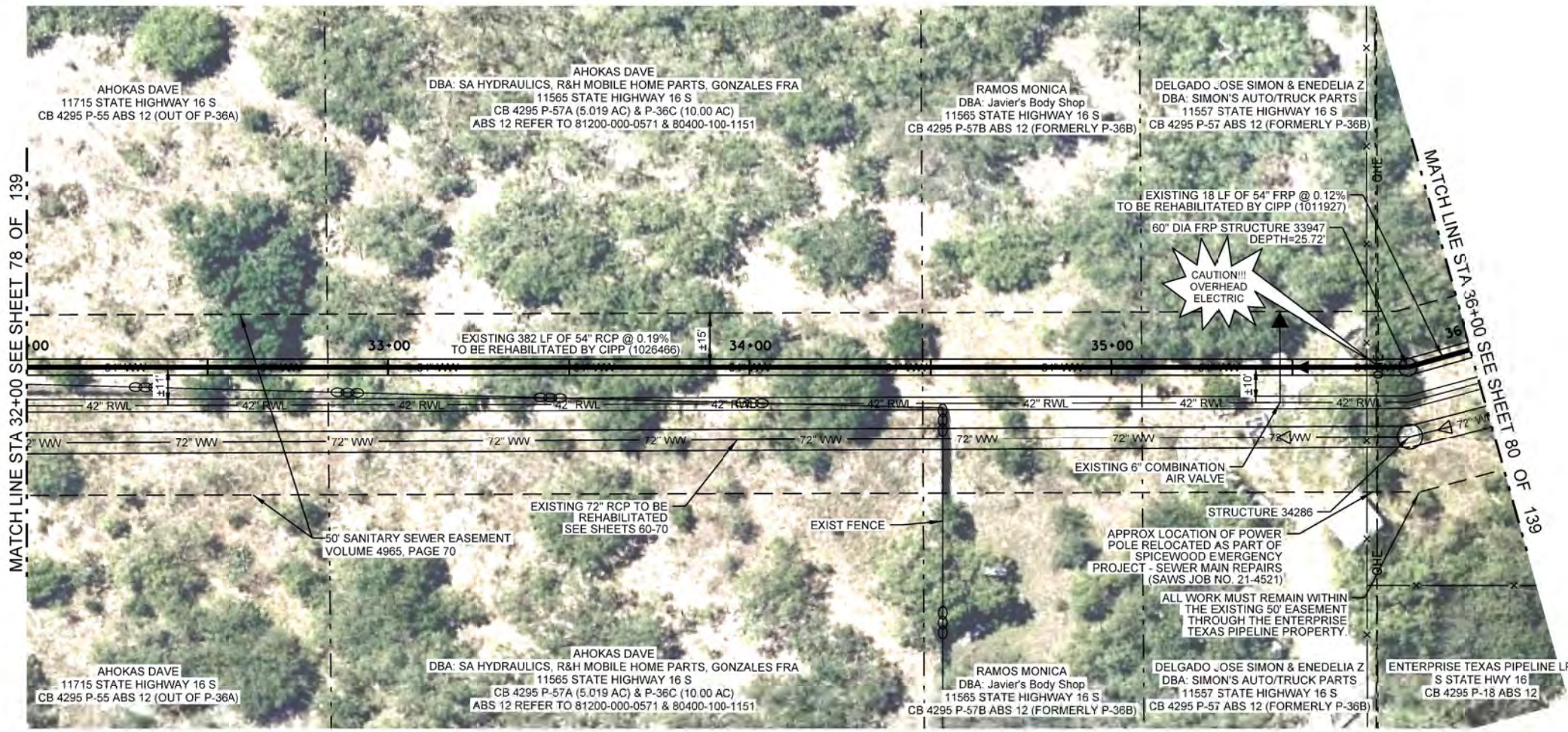
MULTIPLE SEWERSHED PACKAGE 18
 CIPP OVERALL PROJECT LOCATION 5
 LEON CREEK 54"

DEVELOPER: _____
 CONT. BUDGET PROJ.

SUBMITTED _____
 APPROVED _____

| | | | |
|---------|-----------|-----------------|--------|
| MAP No. | SECT. No. | JOB No. 20-4508 | SHEET |
| DR. | | | 71 |
| CK. | | | OF 139 |

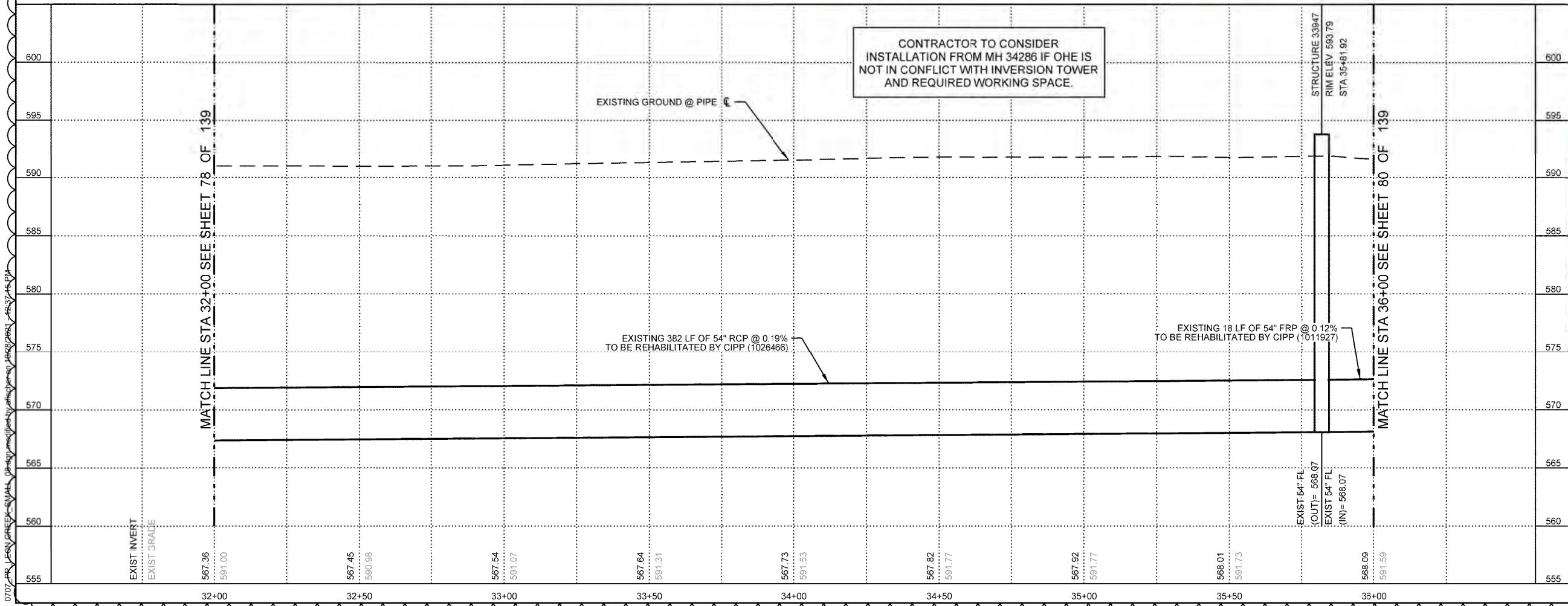
0707_PP_LEON_CREEK_SMALL_OVERALL.dgn modified by alsicher on 10/28/2021 - 12:36:05 PM



| ESTIMATED QUANTITIES | | | |
|----------------------|--|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| 866 | SEWER MAIN TELEVISION INSPECTION (27" AND LARGER) | LF | 400 |
| SP901.1 | INSTALL CIPP SANITARY SEWER PIPE (HOT WATER) (54") | LF | 400 |

LEGEND

- EXISTING FIRE HYDRANT
- WASTEWATER LINE TO BE REHABILITATED
- EXISTING OVERHEAD UTILITIES
- EXISTING STORM DRAIN
- EXISTING WATERLINE
- EXISTING RECYCLE WATERLINE
- EXISTING WASTEWATER LINE
- EXISTING GAS LINE
- EXISTING EASEMENT LINE
- PROPERTY LINE
- 100-YEAR FLOODPLAIN LIMITS
- EXISTING WIRE FENCE
- EXISTING CHAINLINK FENCE



CONTRACTOR TO CONSIDER INSTALLATION FROM MH 34286 IF OHE IS NOT IN CONFLICT WITH INVERSION TOWER AND REQUIRED WORKING SPACE.

HORIZONTAL SCALE
0 20' 40'

VERTICAL SCALE
0 5' 10'

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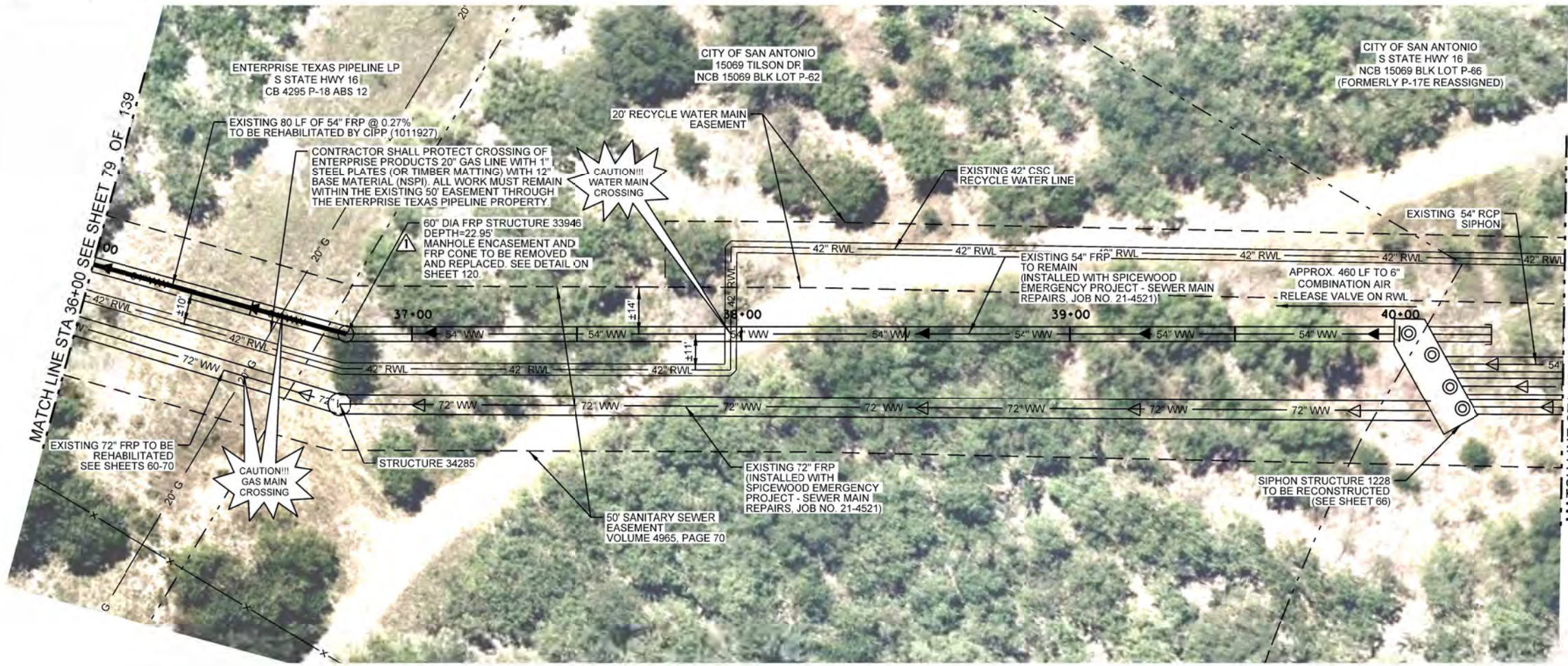
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|-----|------------|-------|----------|----------|
| ▲ | Addendum 6 | AF | MP | 10/28/21 |

REVISIONS

MULTIPLE SEWERSHED PACKAGE 18
CIPP
PROJECT LOCATION 5
LEON CREEK 54"
(8 OF 13)

| | |
|-----------------|--------------|
| DEVELOPER: | |
| CONT. | BUDGET PROJ. |
| SUBMITTED | |
| APPROVED | |
| MAP No. | SHEET |
| SECT. No. | 79 |
| DR. | CK. |
| JOB No. 20-4508 | |
| OF 139 | |

0707_CIPR_LEON_CREEK_54\"/>

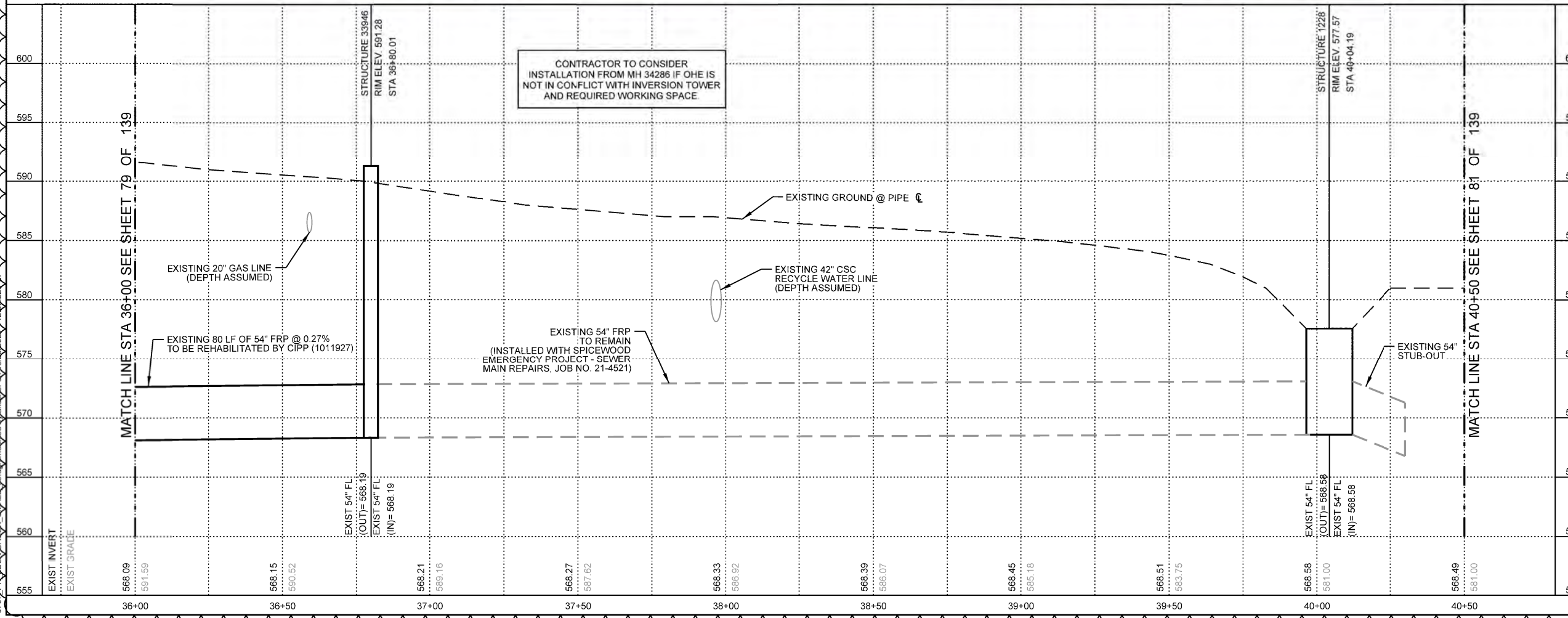


| ESTIMATED QUANTITIES | | | |
|----------------------|--|------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| SP855 | RECONSTRUCTION OF EXISTING MANHOLES | EA | 1 |
| 866 | SEWER MAIN TELEVISION INSPECTION (27\"/> | | |

- NOTES:**
- CONTRACTOR SHALL PROTECT ENTERPRISE GAS PRODUCTS PER NOTES THIS SHEET. ENTERPRISE PRODUCTS REPRESENTATIVE IS REQUIRED TO BE ON SITE FOR ANY EXCAVATION WITHIN 20 FEET OF THE GAS LINE. CONTRACTOR SHALL PROVIDE TWO WEEKS NOTICE TO ENTERPRISE REPRESENTATIVE FOR EXCAVATION. CONTACT: BRIAN THORNTON
PHONE: 830-312-0436
EMAIL: BDTHORNTON@EPROD.COM
 - CONTRACTOR SHALL LIMIT ACTIVITIES TO EXISTING SAWS' EASEMENT WHERE CROSSING ENTERPRISE PIPELINES PROPERTY.

LEGEND

| | |
|--|-------------------------------------|
| | EXISTING FIRE HYDRANT |
| | WASTEWATER LINE TO BE REHABILITATED |
| | EXISTING OVERHEAD UTILITIES |
| | EXISTING STORM DRAIN |
| | EXISTING WATERLINE |
| | EXISTING RECYCLE WATERLINE |
| | EXISTING WASTEWATER LINE |
| | EXISTING EASEMENT LINE |
| | PROPERTY LINE |
| | 100-YEAR FLOODPLAIN LIMITS |
| | EXISTING WIRE FENCE |
| | EXISTING CHAINLINK FENCE |



HORIZONTAL SCALE
0 20' 40'

VERTICAL SCALE
0 5' 10'

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TBP# Firm Number 6535
www.kfriese.com

MICHAEL PERSYN
96583
LICENSED PROFESSIONAL ENGINEER
10/28/2021

| No. | Revision | Drawn | Approved | Date |
|-----|----------|-------|----------|----------|
| 6 | AF | MP | | 10/28/21 |
| 3 | AF | MP | | 10/13/21 |

REVISIONS

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WWS

MULTIPLE SEWERSHED PACKAGE 18
CIPP
PROJECT LOCATION 5
LEON CREEK 54"
(9 OF 13)

DEVELOPER: BUDGET PROJ.

SUBMITTED

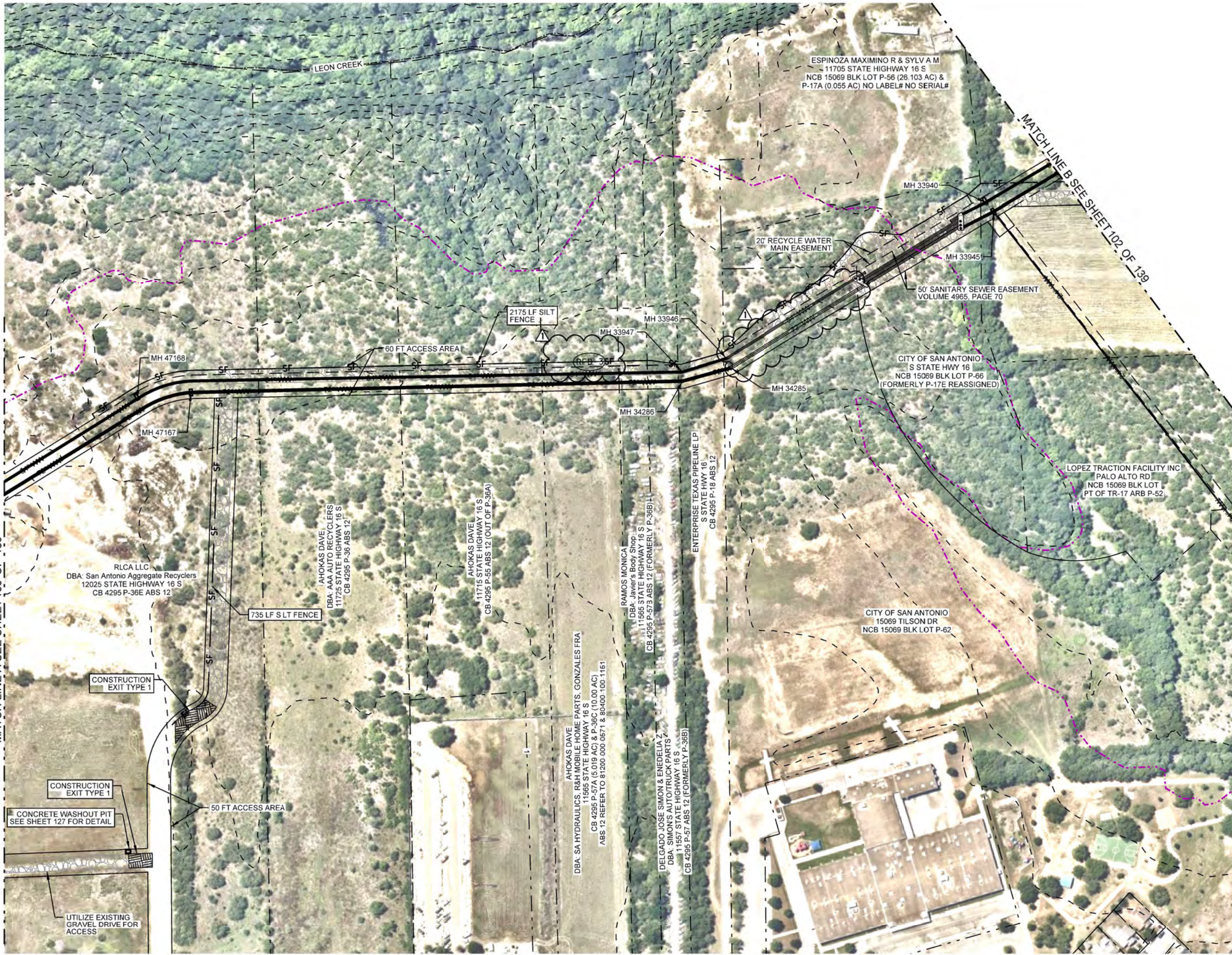
APPROVED

MAP No.







SECT. No.

DR. **CK.** **JOB No.** 20-4508 **SHEET** 80 **OF** 139

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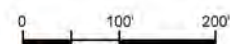


LEGEND

-  CONCEPTUAL HAUL ROUTE
-  SILT FENCE
-  ROCK FILTER DAM
-  CONSTRUCTION EXIT TYPE 1
-  GRAVEL FILTER BAGS
-  100-YEAR FLOODPLAIN LIMITS

NOTES:

1. SEDIMENT CONTROL FENCE (SILT FENCE) LOCATIONS ARE SHOWN BASED ON CONCEPTUAL ACCESS/HAUL ROUTE DEPICTED IN THESE PLANS AND ARE REPRESENTATIVE OF INTENT. CONTRACTOR TO PLACE SEDIMENT CONTROL FENCES IMMEDIATELY ADJACENT TO CONSTRUCTION LIMITS. CONTRACTOR SHALL ADJUST SILT FENCE LOCATIONS BASED ON ACTUAL HAUL ROUTE TO ENSURE SILT FENCES ARE DOWN-SLOPE OF ALL SOIL DISTURBING ACTIVITIES.
2. PORTIONS OF EROSION CONTROL HAS BEEN BUILT BY OTHERS FOR SAWS SPICEWOOD EMERGENCY PROJECT - SEWER MAIN REPAIRS. JOB NO. 21-4521. CIPP CONTRACTOR RESPONSIBLE FOR MODIFICATIONS OR REPAIRS TO EROSION CONTROL TO SUIT CIPP ACTIVITIES AS NEEDED. CIPP CONTRACTOR SHALL REMOVE EROSION CONTROL AFTER CIPP ACTIVITIES ARE COMPLETE.



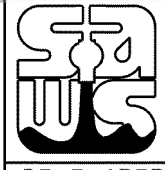
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PUBLIC ENGINEERS & ARCHITECTS

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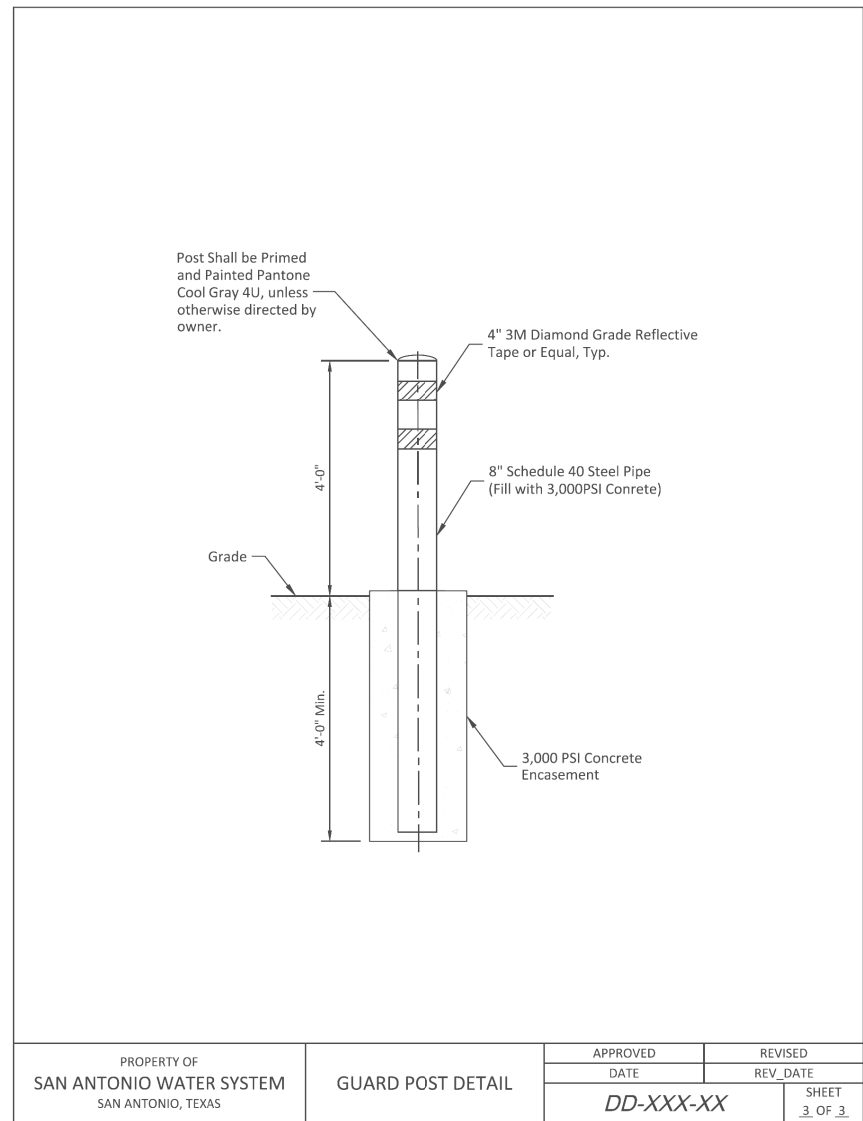
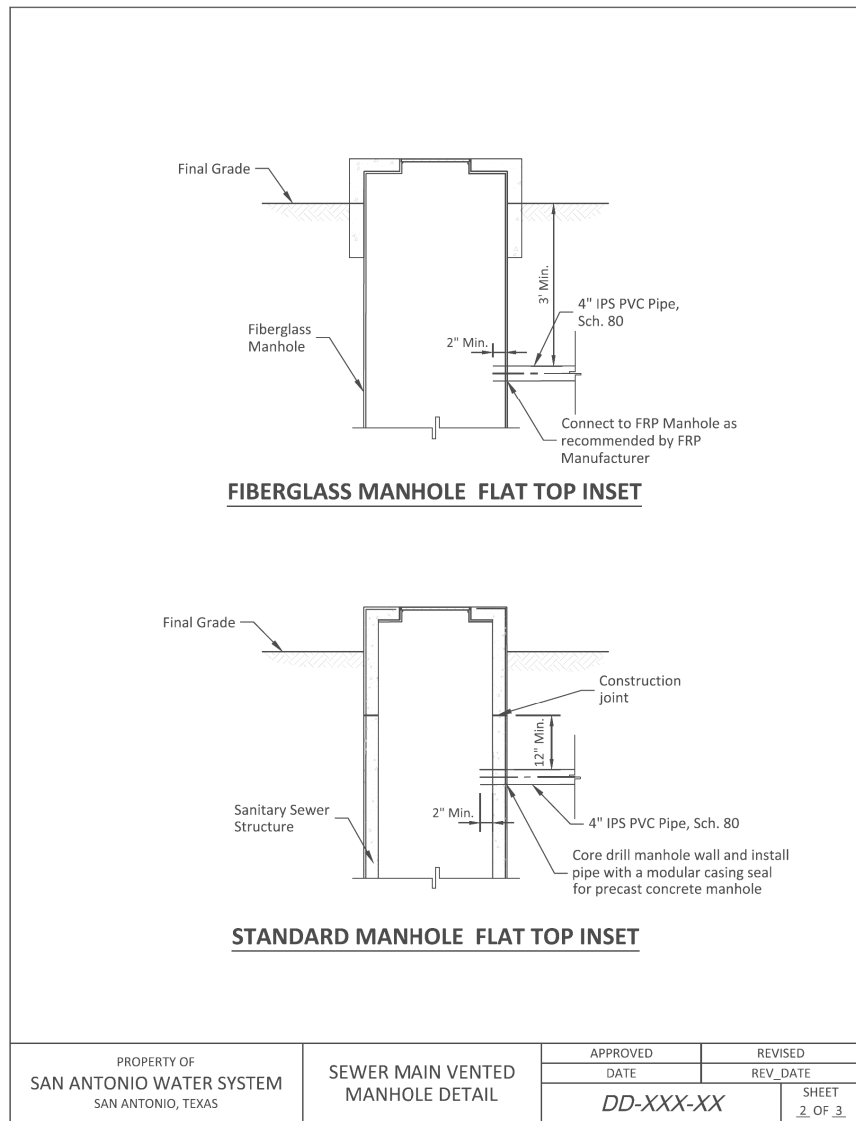
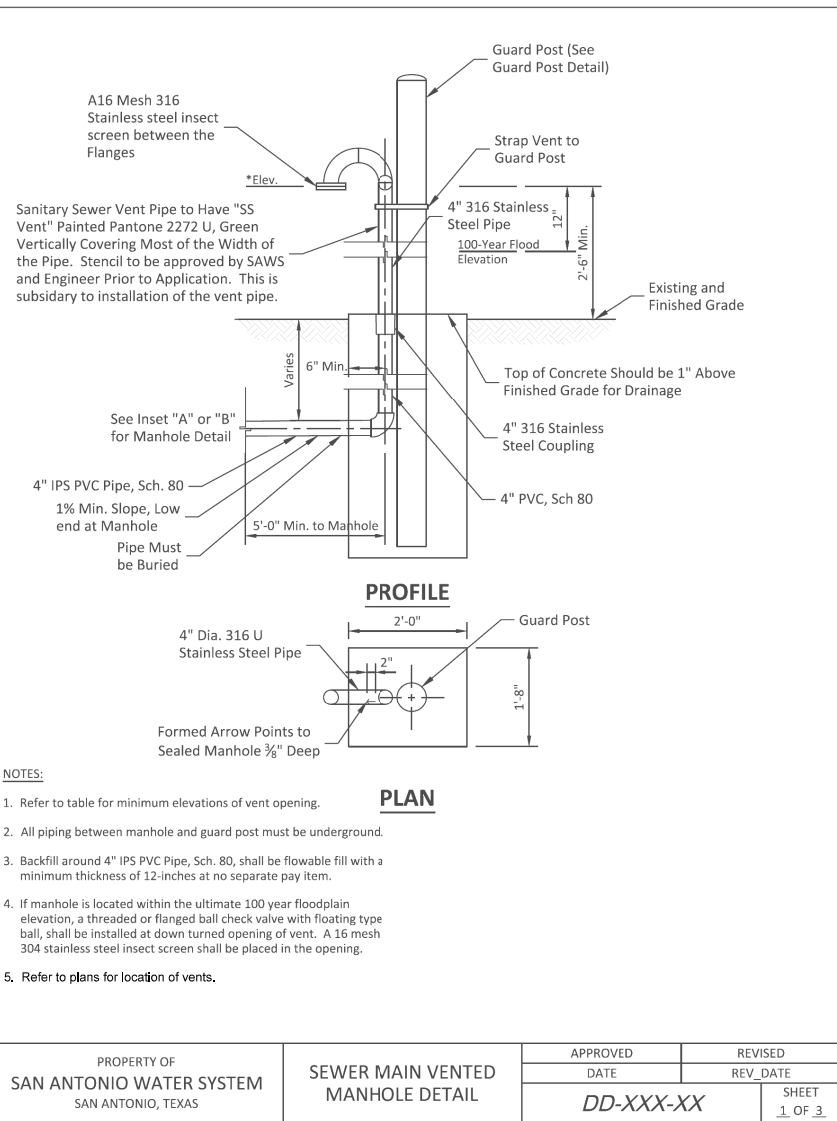


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| ▲ | Addendum 6 | AF | MP | 10/28/21 | |
| No. | Revision | Drawn | Approved | Date | |

REVISIONS

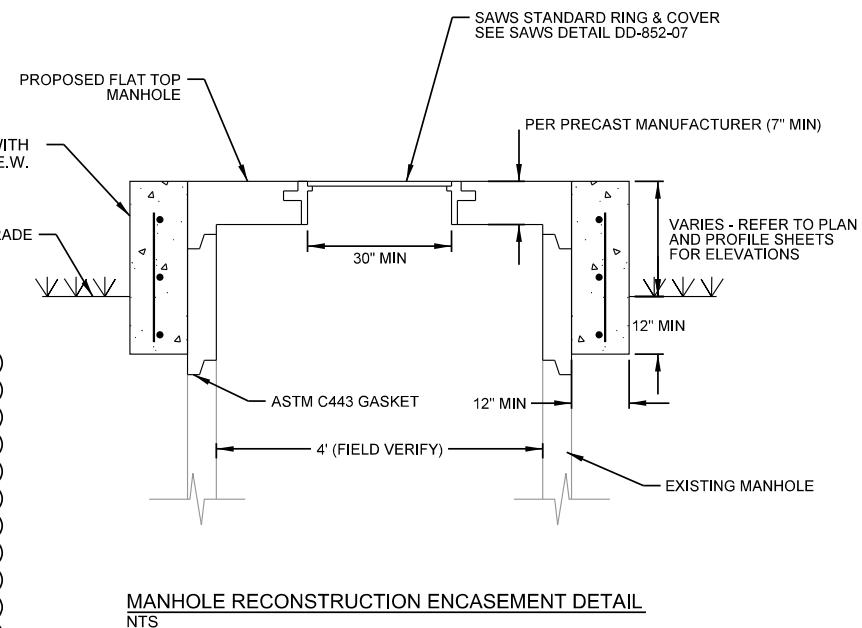
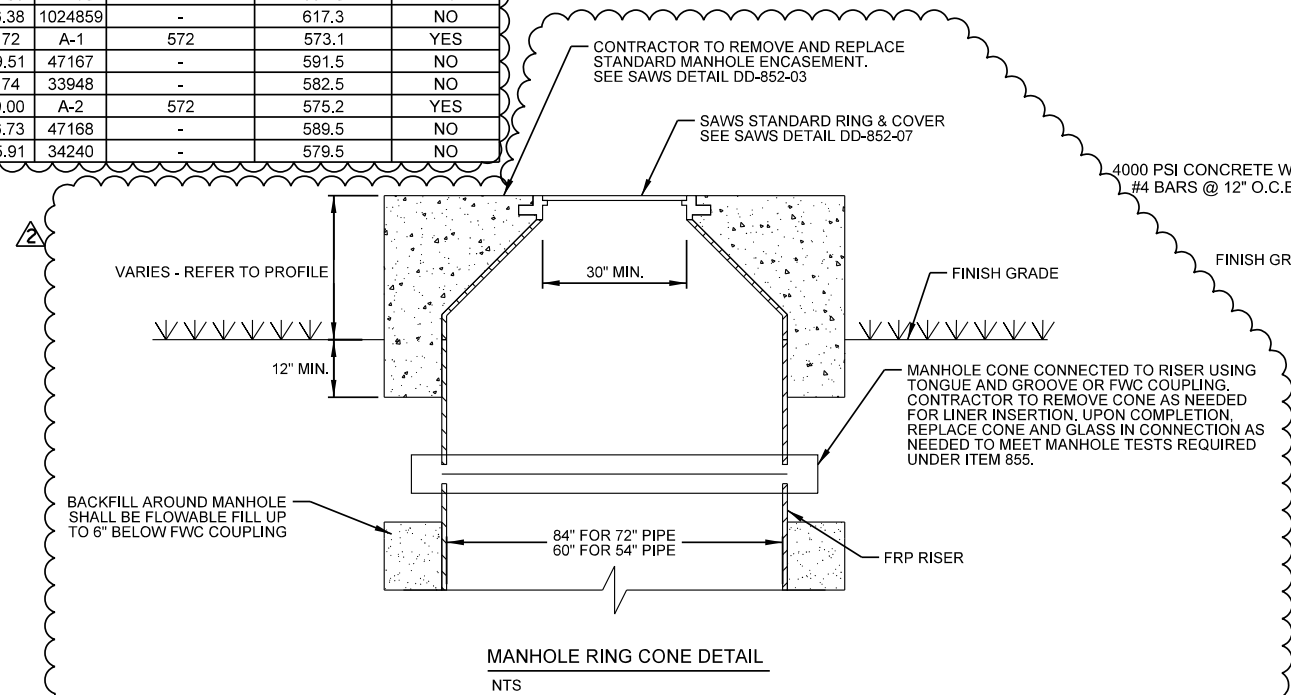
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|---|--|
|  | <p>MULTIPLE SEWERSHED PACKAGE 18 SWPPP PROJECT LOCATION 5 LEON CREEK (2 OF 3)</p> |
|---|--|

| | |
|-------------------|------------------------|
| DEVELOPER: | |
| CONT. | BUDGET PROJ. |
| SUBMITTED | |
| APPROVED | |
| MAP No. | SHEET |
| SECT. No. | 101 |
| DR. | JOB No. 20-4508 OF 139 |



MANHOLE VENTILATION ELEVATIONS

| LOCATION | SHEET NO. | STATION | MH NO. | 100-YR FLOOD ELEVATION | VENT OPENING ELEVATION | BALL VALVE NEEDED |
|----------|-----------|----------|---------|------------------------|------------------------|-------------------|
| 4 | 32 | 12+52.36 | 44793 | - | 604.3 | NO |
| | 39 | 54+66.38 | 1024859 | - | 617.3 | NO |
| | 60 | 7+85.72 | A-1 | 572 | 573.1 | YES |
| 5 | 63 | 21+39.51 | 47167 | - | 591.5 | NO |
| | 72 | 4+58.74 | 33948 | - | 582.5 | NO |
| | 74 | 13+60.00 | A-2 | 572 | 575.2 | YES |
| | 77 | 24+16.73 | 47168 | - | 589.5 | NO |
| | 81 | 43+85.91 | 34240 | - | 579.5 | NO |



| | | | |
|---|-------------------------------------|-------------------------------|--|
| PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS | SEWER MAIN VENTED MANHOLE DETAIL | APPROVED DATE DD-XXX-XX | REVISED REV_DATE SHEET 1 OF 3 |
|---|-------------------------------------|-------------------------------|--|

| | | | |
|---|-------------------------------------|-------------------------------|--|
| PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS | SEWER MAIN VENTED MANHOLE DETAIL | APPROVED DATE DD-XXX-XX | REVISED REV_DATE SHEET 2 OF 3 |
|---|-------------------------------------|-------------------------------|--|

| | | | |
|---|-------------------|-------------------------------|--|
| PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS | GUARD POST DETAIL | APPROVED DATE DD-XXX-XX | REVISED REV_DATE SHEET 3 OF 3 |
|---|-------------------|-------------------------------|--|

K-FRIESE + ASSOCIATES
PUBLIC PROJECT ENGINEERING
10001 Reunion Place
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San Antonio, Texas 78216
P. 210.491.2391 F. 512.338.1784
TBP# Firm Number 6535
www.kfriese.com



| No. | Revision | Drawn | Approved | Date |
|-----|------------|-------|----------|----------|
| △ | Addendum 6 | AF | MP | 10/28/21 |
| △ | Addendum 3 | AF | MP | 10/13/21 |

| REVISIONS | | | | |
|--|-----|--------------|---------|--------|
| MULTIPLE SEWERSHED PACKAGE 18 | | | | |
| MANHOLE RECONSTRUCTION ENCASUREMENT AND GOOSENECK VENT DETAILS | | | | |
| DEVELOPER: | | | | |
| CONT. | | BUDGET PROJ. | | |
| SUBMITTED | | | | |
| APPROVED | | | | |
| MAP No. | | | | SHEET |
| SECT. No. | | | | 120 |
| DR. | CK. | JOB No. | 20-4508 | OF 139 |

SITE DESCRIPTION

PROJECT NAME AND LOCATION: MULTIPLE SEWERSHED PACKAGE 18 PROJECT (SAWS JOB NO. 20-4508)

THIS PROJECT CONSISTS OF 6 DIFFERENT LOCATIONS LOCATED THROUGHOUT THE CITY OF SAN ANTONIO.

CONTACT AND PHONE NO.: (CONTRACTOR)

PROJECT DESCRIPTION: THIS PROJECT IS A LARGE DIAMETER SANITARY SEWER REHABILITATION PROJECT WITH PIPE SIZES RANGING FROM 10" TO 72" IN DIAMETER. THERE IS A TOTAL OF 16,189 LF OF SEWER BEING REHABILITATED USING CURED-IN-PLACE PIPE (CIPP).

MAJOR SOIL DISTURBING ACTIVITIES: SOIL DISTURBANCE ACTIVITIES WILL INCLUDE PREPARING EASEMENT AREA AND RIGHT-OF-WAYS, CLEARING AND GRUBBING, TRENCHING, POINT REPAIR AREAS, EROSION AND SEDIMENT CONTROLS, AND TOPSOIL WORK FOR FINAL SEEDING.

TOTAL PROJECT AREA (ACRES): APPROX 44.6 ACRES

LOCATION 2: 3.9 ACRES

TOTAL AREA TO BE DISTURBED: APPROX. 13.1 ACRES

LOCATION 2: 2.1 ACRES

WEIGHTED RUNOFF COEFFICIENT: NOT APPLICABLE
(AFTER CONSTRUCTION)

EXISTING CONDITION OF SOIL VEGETATIVE COVER AND % OF VEGETATIVE COVER: VARIES BY PROJECT LOCATION

LOCATION 2: LVA SOILS (LEWISVILLE SILTY CLAY, 0% TO 1% SLOPES), 41% VEGETATIVE COVER

DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION: DISCHARGES FROM FIRE FIGHTING ACTIVITIES OR FIRE HYDRANT FLUSHING, WATER TO CONTROL DUST, UNCONTAMINATED GROUNDWATER OR ACCUMULATED STORMWATER

NAME OF RECEIVING WATERS: VARIES BY PROJECT LOCATION

IDENTIFY STORMWATER DISCHARGE POINTS: VARIES BY PROJECT LOCATION

A DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION: SITES SHALL BE STABILIZED UPON COMPLETION OF SEWER CONSTRUCTION ACTIVITIES

EROSION AND SEDIMENTATION CONTROLS

SOIL STABILIZATION PRACTICES:

- HYDROMULCHING
- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS.

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- GRAVEL FILTRATION BAGS
- ROCK BERMS
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- DIVERSION, DIKE AND SWALE COMBINATIONS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- TIMBER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET SEDIMENT STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL STRUCTURES
- GEOTEXTILES

OTHER: NOT APPLICABLE

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT) ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS: INSTALL SEDIMENT CONTROL FENCES, ROCK BERMS, FILTRATION BAGS AND CONSTRUCTION EXITS, PREPARE EASEMENT AREA BY CLEARING AND GRUBBING OF VEGETATION AND TREES AS PER TREE PERMIT REQUIREMENTS, REMOVE /INSTALL /ADJUST TEMPORARY EROSION, SEDIMENT, AND STORM WATER POLLUTION CONTROL MEASURES, SITE CLEANUP AND REVEGETATION OF DISTURBED AREAS, REMOVAL OF TEMPORARY CONTROL DEVICES.

A DESCRIPTION OF MAINTENANCE PROCEDURES FOR CONTROL MEASURES USED:

DISTURBED AREAS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF POLLUTANTS ENTERING THE CREEK SYSTEMS. LOCATIONS WHERE VEHICLE AND EQUIPMENT ENTER, EXIT OR TRAVEL THROUGH THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. CONTRACTOR SHALL PROVIDE CONTROL MEASURES TO REPAIR/REPLACE APPURTENANCES AS NEEDED.

STORMWATER MANAGEMENT: CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO EXISTING

STORMWATER SYSTEMS. STORMWATER DISCHARGE SHALL BE CONVEYED THROUGH EXISTING STORM DRAIN SYSTEMS, CULVERTS, CHANNELS, NATURAL STREAMS, DITCHES, ETC. ALL DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS: NOT APPLICABLE

OTHER EROSION AND SEDIMENTATION CONTROLS

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY 1/2" OR MORE OF RAIN (RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION, BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING, MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE NATIONAL RESPONSE CENTER SHOULD BE CONTACTED AT 800-424-8802 AND ANY REQUIRED CHANGES MADE TO THE SWPPP. IN THE EVENT OF A LIFE THREATENING SPILL THE SAN ANTONIO FIRE DEPARTMENT SHOULD BE NOTIFIED AS WELL AS THE APPROPRIATE CITY INSPECTORS.

SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY SEWER WASTE MANAGEMENT COMPANY. PORTABLE UNITS SHALL NOT BE LOCATED WITHIN THE FLOODPLAIN.

OFFSITE EXCAVATION SOURCE LOCATION NOT APPLICABLE

OFFSITE FILL SOURCE LOCATION NOT APPLICABLE

OFFSITE VEHICLE TRACKING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND DUST SHALL BE MINIMIZED. EXCESS SEDIMENT ON PAVED ROADWAYS SHALL BE REMOVED ON A REGULAR BASIS AS DIRECTED/APPROVED BY THE ENGINEER.

- HAUL ROADS DAMPENED FOR DUST CONTROL.
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD TO BE REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE.

OTHER:

CERTIFICATION THAT SITE DISTURBANCE AND / OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT. WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS? NOT APPLICABLE

REMARKS:

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS POSSIBLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

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| No. | Addendum 6 | AF | MP | 10/28/21 |
| | Revision | Drawn | Approved | Date |
| JANUARY 2005 | | | | |

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|--|----------------------|-----------|-----------------------|
| CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT | | | |
| STORM WATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE | | | |
| % SUBMITTAL | PROJECT NO.: 20-4508 | DATE: | |
| DRWN. BY: V. VASQUEZ | DSGN. BY: | CHKD. BY: | SHEET NO.: 125 OF 139 |