# PUBLIC WATER PLANS FOR: LONESOME DOVE - COMM UNIT 2 SAN ANTONIO, TEXAS

## SAN ANTONIO, TEXAS

### SAWS STANDARD GENERAL CONSTRUCTION NOTES ASSOCIATED WITH 2021 SAWS STANDARD SPECS

## **GENERAL CONSTRUCTION**

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:

- A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter B. Current TXDOT "Standard Specifications for Construction of Highways, Streets
- C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction." D. Current City of San Antonio "Standard Specifications for Construction."
- E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM). 2. The Contractor shall obtain SAWS Standard Details from SAWS website.

https://apps.saws.org/business\_center/specs/constspecs/\_ unless otherwise noted within

- 3. The Contractor is to notify and make arrangements with the SAWS Construction Inspection Division at 210-233-3500 (during regular SAWS working hours) and provide notification procedures the Contractor will use to notify affected home residents and/or property owners two (2) weeks prior to excavation. Outside of regular SAWS working hours the SAWS EOC should be contacted at 210-704-7297.
- 4. If necessary, Contractor will coordinate use of SAWS premises at no additional cost to SAWS. Such efforts include, but are not limited to, obtaining security identification badges required for access to SAWS facilities.
- 5. Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no
- 6. The Contractor shall verify the exact location of underground utilities and drainage structures prior to construction whether shown on plans or not. As-builts for SAWS infrastructure can be obtained at website below. Contractor shall coordinate physical locates for SAWS infrastructure through the SAWS Inspector. Please allow up to 7 business days for locates requesting pipe location markers on SAWS infrastructure. The following contact information are supplied for verification purposes:

San Antonio Water System: Request as-builts: <a href="https://www.saws.org/service/locates-service/">https://www.saws.org/service/locates-service/</a> COSA Drainage 210-206-8433

result of damages done by the project's construction.

- COSA Traffic Signal Operations 210-207-7720 Texas Statewide One Call Locator 1-800-545-6005 or 811 7. The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping, and structures to its original or better condition as a
- 8. Contractor shall not make use of dumpsters or waste bins that are intended to serve residents and/or businesses.
- 9. All work in Texas Department of Transportation and Bexar County right-of-way shall be done in accordance with respective construction specifications and permit
- 10. The Contractor shall comply with City of San Antonio or other governing Municipality's tree ordinances when excavating near trees.
- 11. All work within the 100-year Floodplain shall be done in accordance with Floodplain Development Permit
- 12. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System. 13. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS
- Weekend Work: Contractors are required to submit request to the SAWS Inspection Construction department by 12:00pm on the Wednesday prior to the weekend being requested. Request should be sent to constworkreq@saws.org.
- Any and all SAWS utility work installed without weekend approval will be subject to be uncovered for proper inspection at no cost to SAWS.
- 14. PRE-CON SITE VIDEO: Before the start of any construction. The site must be video recorded by the contractor with one copy submitted to SAWS Inspections. A pre-site video will provide accurate documentation of the existing conditions (NSPI).
- 15. POWER POLE BRACING: Contractors should be advised that there are existing overhead utility poles along the project corridor. Contractors should further be advised that if the distance from the outside face of a utility trench to the face of a utility pole is less than 5 feet, said utility pole is subject to bracing, based on a determination made by utility pole owner. Costs incurred by contractor for bracing of these utility poles is subsidiary to that respective utility company's work. It is advisable for the contractor to review the construction documents and visit the construction site to determine potential
- 16. CONSTRUCTION SEQUENCING: It is the Contractor's sole responsibility to schedule sequencing for removal and installation of existing and proposed SAWS utilities in conjunction with general project construction. Sequence of construction activities shall be considered in order to minimize the extent and duration of disturbances.

- 17. Contractor shall comply with applicable regulations including but not limited to, those overseen by the U.S. Occupational Safety and Health Administration (OSHA), OSHA information and related materials may be obtained at https://www.osha.gov/ or at the OSHA San Antonio Office located at Fountainhead Tower, Suite 605 8200 W. Interstate 10 San Antonio, TX 78230 which is also reachable by phone at (210) 472-5040.
- 18. TRENCH EXCAVATION SAFETY PROTECTION: Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work areas in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with, as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

- 19. Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Inspection and/or SAWS Production groups at least two weeks or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. SAWS Production Control Center 210-233-2016
- 20. Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos-containing material (ACM), maybe located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs, Payment for such work is to be made under Item No. 3000, "Handling Asbestos Cement Pipe"
- AC pipe removed on construction projects for tie-in(s) should be in length of 26 linear feet (LF). Lengths of 13 LF should be removed where AC pipe is being removed and crossing pipes, conduits, or boxes.
- 21. VALVE REMOVAL: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug. (NSPI)
- 22. DIVISION VALVES: Division Valves shown on plans or not shown on plans but found in the field shall only be operated by SAWS Distribution and Collection staff and only with prior written approval of the SAWS Director of Production and Operations and proper coordination with all SAWS departments. Contractor shall provide written notification to the inspector a minimum of two weeks in advance to start the coordination process and will be informed by the Inspector when the division valve will be operated by the SAWS Distribution and Collection staff. The Division Valve can only be operated by SAWS Distribution and Collection staff member not the inspector or the contractor. Operation of a Division Valve without the express prior written approval of the SAWS Distribution and Collection staff will constitute a material breach of any written SAWS contract or permit in addition to subjecting the Contractor to liability for any and all fines, fees, or other damages, direct or consequential, that may arise MISSING PRV NOTE from or be caused by the operation of the valve without prior written permission. Please be informed that the approval of the operation or opening or closing of a division valve can take several weeks for approval. Division Valves will also have a valve lid labeled Division Valve and a locking mechanism installed with a key. The lock and key mechanism will be paid for by the contractor but will be installed by SAWS Distribution and Collection staff.

- 23. The Contractor is responsible for ensuring that no sanitary sewer overflow (SSO) occurs as a result of their work. All contractor personnel responsible for SSO prevention and control shall be trained on proper response. Should an SSO occur, the contractor shall:
- A. Identify the source of the SSO and notify SAWS Emergency Operations Center (EOC) immediately at 210-704-SAWS (210-704-7297). Provide the address of B. Attempt to eliminate the source of the SSO.

C. Contain sewage from the SSO to the extent of preventing a possible

- contamination of waterways. D. Clean up spill site (return contained sewage to the collection system if possible) and properly dispose of contaminated soil/materials.
- E. Clean the affected sewer mains and remove any debris. F. Meet all post-SSO requirements as per the EPA Consent Decree, including line cleaning and televising the affected sewer mains (at SAWS direction) within 24
- Should the Contractor fail to address an SSO immediately and to SAWS satisfaction, they will be responsible for all costs incurred by SAWS, including any fines from EPA. No separate measurement or payment shall be made for this work. All work shall be done
- according to guidelines set by the TCEQ and SAWS. 24. The Contractor shall provide bypass pumping of sewage around each segment of pipe to be replaced, in accordance with SAWS Standard Specification Item No. 865, "Bypass Pumping Small Diameter Sanitary Sewer Mains" and Standard Specification Item No. 864, "Bypass Pumping Large Diameter Sanitary Sewer Mains" as applicable. Payment for such work will be made under the appropriate bid item associated with Sanitary Sewer Bypass Pumping in accordance with SAWS Standard Specifications 865 and 864.
- 25. Prior to tie-ins, any shutdowns of existing force mains of any size must be coordinated with the SAWS Construction Inspection Division at 210-233-3500 and/or SAWS Production groups at least two weeks or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.

- 26. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY It shall be the responsibility of the Contractor to make allowances and adjustments for top of manholes to match the finished grade of the project's improvements (NSPI).
- 27. MANHOLE REMOVAL: Where existing manholes are to be replaced by the contractor, the existing manholes shall be removed. (NSPI)
- 28. SMART MANHOLE COVERS: The Contractor shall notify SAWS EOC at 210-704-SAWS (210-233-7297) and either America Espinoza at 210-233-2934 or Jose A. Martinez at 210-233-3071 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor
- 29. FLOW METERS IN MANHOLES: The Contractor shall notify Bobby Johnson at 210-233-3493 or Abel Borunda at 210-233-3704 a minimum of 72 hours, not counting weekends or SAWS holidays, before working on the pipe or manhole, in order to have SAWS remove the Flow Meter in the manhole. Any damage done to the Flow Meter will be charged to the Contractor through a change order.

Add applicable TCEO notes under headings below if applicable and remove all red text herein. Remove any text below, including headings, which is not applicable to the project in

TCEQ: EDWARDS AQUIFER PROTECTION – LIFT STATIONS AND FORCE MAINS If applicable to the project in question, add General Notes required in TCEQ Form TCEQ-591 available at <a href="https://www.tceq.texas.gov/permitting/eapp/material.html">https://www.tceq.texas.gov/permitting/eapp/material.html</a>

TCEQ: EDWARDS AQUIFER PROTECTION - WATER POLLUTION ABATEMENT If applicable to the project in question, add General Notes required in TCEQ Form TCEQ-592 available at <a href="https://www.tceq.texas.gov/permitting/eapp/material.html">https://www.tceq.texas.gov/permitting/eapp/material.html</a>

TCEQ: EDWARDS AQUIFER PROTECTION - CONTRIBUTING ZONE PLAN If applicable to the project in question, add General Notes required in TCEQ Form TCEQ-592A available at <a href="https://www.tceq.texas.gov/permitting/eapp/material.html">https://www.tceq.texas.gov/permitting/eapp/material.html</a>

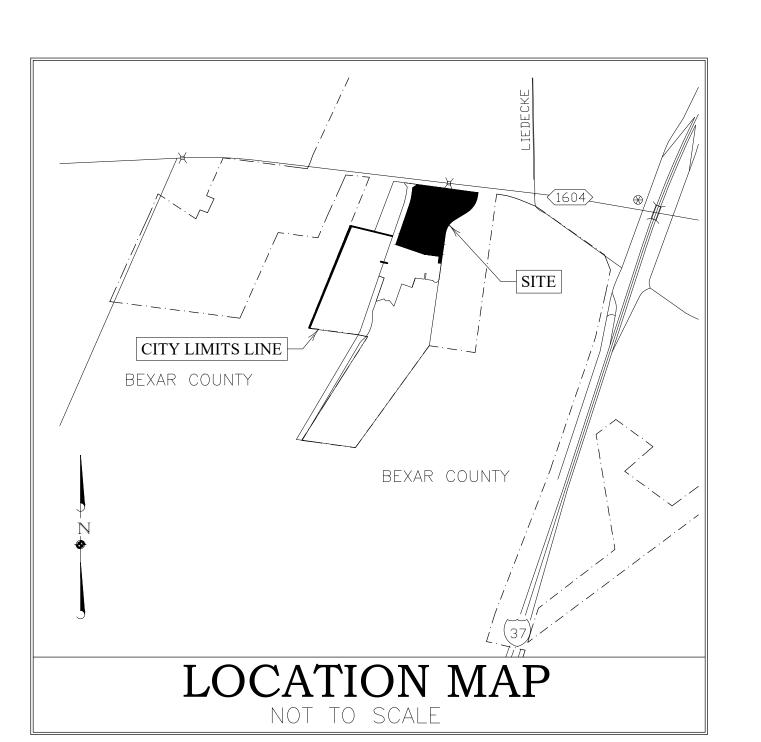
TCEQ: EDWARDS AQUIFER PROTECTION - ORGANIZED SEWER COLLECTION If applicable to the project in question, add General Notes required in TCEQ Form TCEQ-596

available at <a href="https://www.tceq.texas.gov/permitting/eapp/material.html">https://www.tceq.texas.gov/permitting/eapp/material.html</a>

### **CIVIL SHEET INDEX** SHEET NO. **DESCRIPTION** C2.0 **COVER SHEET WATER** C2.1 **WATER OVERALL PLAN WATER PLAN** C2.2

**WATER DETAILS** 

C2.3



## PREPARED BY:



10861 VANDALE STREET SAN ANTONIO, TEXAS 78216 (210) 515-4833 WWW.REDBLACKEG.COM TBPE F-18934

## SAWS PRESSURE ZONE PZ 2 & PZ

DEVELOPER'S NAME: DTLD, LLC

**DEVELOPER'S ADDRESS: 111 W SUNSET RD** CITY: SAN ANTONIO STATE: TEXAS ZIP: 78209 TOTAL ACREAGE: 19.69 PHONE#: (210) 823-2316 FAX#: SAWS BLOCK MAP#: 182504/182502 TOTAL EDU'S: -TOTAL LINEAR FOOTAGE OF PIPE: 1,273 LF (12") PLAT NO.: 22-11800295 SAWS JOB#: 22-1020





ISIGNED BY: )RAWN BY:

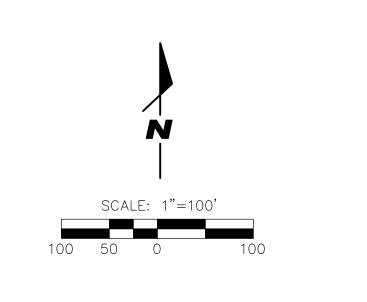
HECKED BY:

DTLD, LLC WEST KINGS HIGHWAY ANTONIO, TEXAS 78201

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2010 SAN

SHEET



PLAT NO. 22-1180029:

EXISTING 8" SANITARY SEWER MAIN 14' GETCA ESM'T VARIABLE WIDTH S ss ss ss DRAINAGE ESM'T EXISTING 8" SANITARY SEWER MAIN 10' PRIVATE SANITARY SEWER ESM'T FOR THE SOLE BENEFIT OF LOT 22 16' SANITARY SEWER ESM'T ∠ (VOL 20002, PG 689 DPR) 14' GETCA ESM'T LOT 25 LOT 24 **BLK 10** BLK 10 LOT 901 2.22 AC 2.99 AC BLK 10 2.63 AC >--14' GETCA ESM'T 10' PRIVATE SANITARY
SEWER ESM'T FOR THE
SOLE BENEFIT OF LOT 23 LOT 26 BLK 10 1.82 AC LOT 23 69' ACCESS, DRAINAGE, WATER, ELECTRIC, GAS, CABLE AND TELEPHONE BLK 10 2.56 AC LOT 4, BLOCK 1 IVY SUBDIVISION (VOL. 9524, PG. 14-22, D.P.R.) LOT 27 BLK 10 4.13 AC 12' ELECTRIC ESM'T (VOL. 9524, PG. 14-22 O.P.R.) LOT 22 BLK 10 ≥69' ACCESS, DRAINAGE, WATER, ELECTRIC, GAS, CABLE AND TELEPHONE 2.90 AC — REMOVE SERVICES SS PRARIE POND SS SS SS SS SS SS SS SS SS

R.O.W LOOP 1604

NOTE: CONTRACTOR TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER LINES, GAS LINES, SEWER LINES AND ELECTRIC LINES.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30 FEET FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER HIGH VOLTAGE LINES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY.

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

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC AND PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO WATER, SANITARY SEWER, STORM SEWER, CULVERTS, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC LINES, DUCTBANKS, LANDSCAPE IRRIGATION LINES, GAS LINES. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT THE SOLE EXPENSE OF THE CONTRACTOR. ANY UTILITY CONFLICTS THAT ARISE SHALL BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION.

NOTE:

1. SAWS SHALL MACHINE CHLORINATE NEW MAINS.

TIME OF FINAL INSPECTION.

CONTRACTOR SHALL FURNISH A SET OF "AS-BUILT" DRAWINGS TO ENGINEER AT

3. CONTRACTOR SHALL FURNISH AND INSTALL JUMPER CONNECTIONS AS REQUIRED OR DIRECTED BY THE SAWS INSPECTOR.

4. UNLESS OTHERWISE NOTED, ALL 16-INCH AND 8-INCH PIPE SHALL BE AWWA C900 PVC CLASS 235 DR 18.

5. SAWS REQUIRES G.C.P.S. AND COUNTER PERMITS TO USE LEAD FREE (<0.25%

LEAD) FIRE HYDRANTS.

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS DIRECTED BY THE SAWS INSPECTOR/TEST ADMINISTER, PER EACH 16-INCH LOOSE FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

## SAWS PRESSURE ZONE PZ 2 & PZ

DEVELOPER'S NAME: DTLD, LLC DEVELOPER'S ADDRESS: 111 W SUNSET RD

CITY: SAN ANTONIO STATE: TEXAS ZIP: 78209

PHONE#:(210) 823-2316 FAX#: TOTAL ACREAGE: 19.69 TOTAL EDU'S: \_\_\_\_ SAWS BLOCK MAP#: <u>182504/182502</u> PLAT NO.: 22-11800295

TOTAL LINEAR FOOTAGE OF PIPE: 1,273 LF (12") SAWS JOB#: <u>22-1020</u> NUMBER OF LOTS:

SHEET

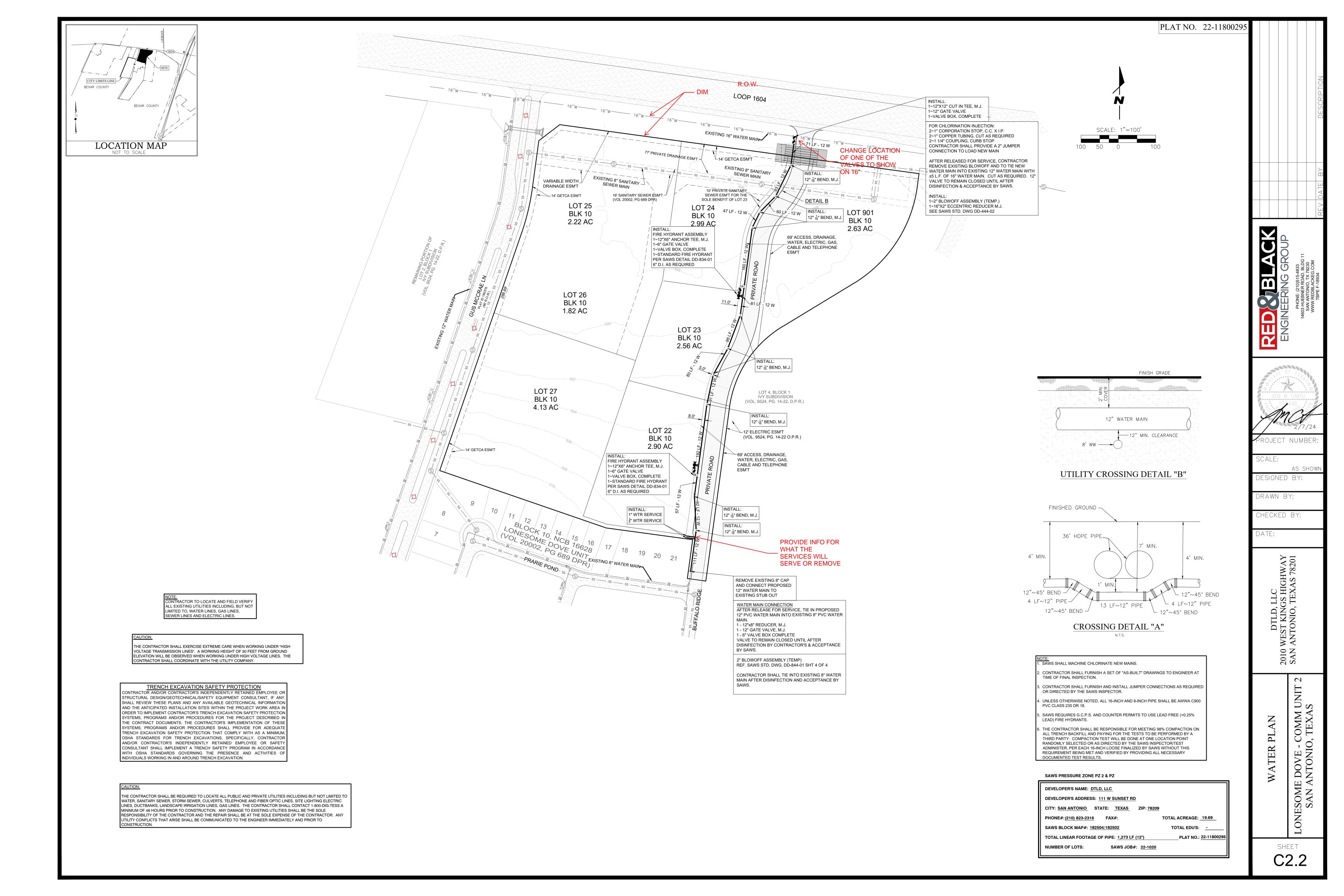
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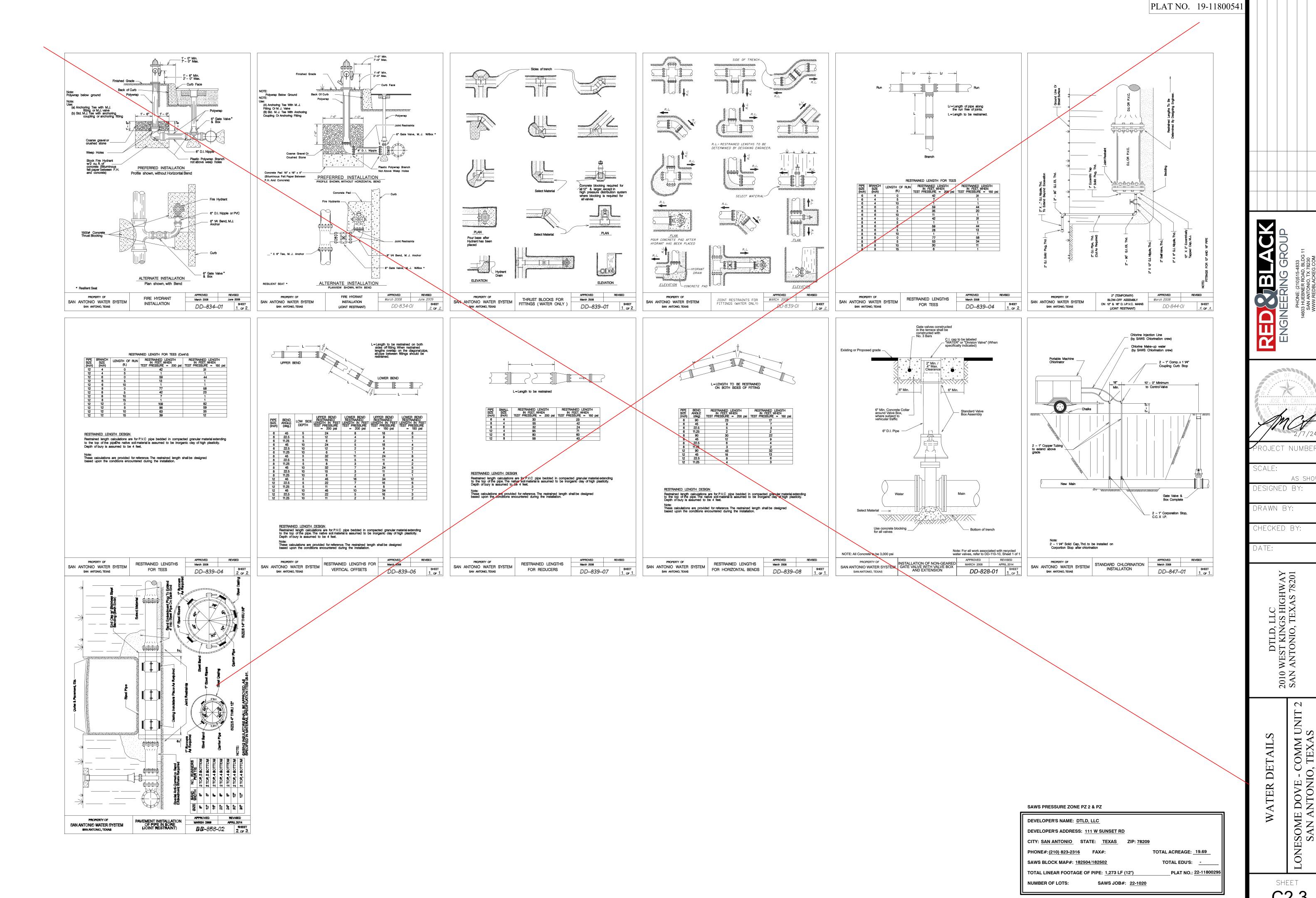
DRAWN BY:

CHECKED BY:

DTLD, LLC 2010 WEST KINGS HIGHWAY SAN ANTONIO, TEXAS 78201

7 UNIT





UNIT

C2.3