# WATERLINE CONSTRUCTION PLANS for EASTRIDGE OFFSITE WATERMAIN **ALONG HILDEBRANDT**

# <u>General Section Notes</u>

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

. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage" Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction Current City of San Antonio "Standard Specifications for Public Works Construction". E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).

2. The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.

3. The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business\_center/specs. Unless otherwise noted within the design plans

4. The Contractor is to make arrangements with the SAWS Construction Inspection Division at (210) 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners 48 hours prior to beginning any work.

5. Location and depth 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 at least 1 week 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 cost to SAWS

6. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:

- -SAWS Utility Locates: http://www.saws.org/Service/Locates -COSA Drainage (210) 207-0724 or (210) 207-6026
- -COSA Traffic Signal Operations (210) 206-8480 -COSA Traffic Signal Damages (210) 207-3951

-Texas State Wide 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 if damages are made as a result of the project's construction. 8. All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in

accordance with respective construction specifications and permit requirements.

9. The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees.

10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.

11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constworkreg@saws.org.

Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constworkreg@saws.org.

Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.

12. Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.

13. A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division. <u>Water Notes</u>

1. Prior to tie—ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week 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.

For water mains 12" or higher: SAWS Emergency Operations Center (210) 233-2014

2. Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos—containing material (ACM), may be 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. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".

3. 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)

4. Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-839 Series and Item No. 839, in the SAWS Standard Specifications for Construction.

5. All valves shall read "open right".

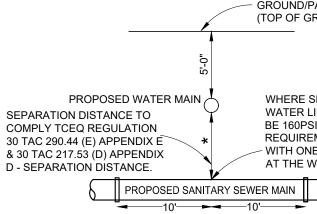
6. PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of <u>565</u> feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 565 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if \*PRV is/are required for such lot(s), only single service connections shall be allowed. \*Note: A pressure regulator is also known as a pressure reducing valve (PRV).

7. Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 847.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.

8. Backflow Prevention Devices: All irrigation services within residential areas are required to have backflow prevention devices. All commercial backflow prevention devices must be approved by SAWS prior to installation.

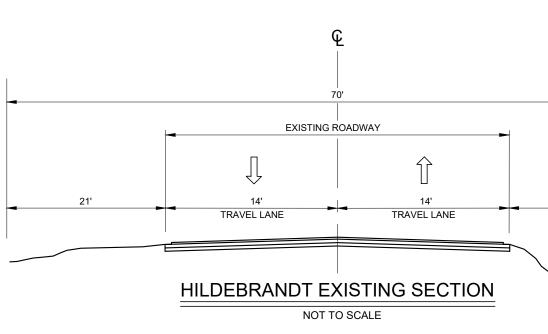
9. Final connection to the existing water main shall not be made until the water main has been pressure tested, chlorinated, and SAWS has released the main for tie-in and use.

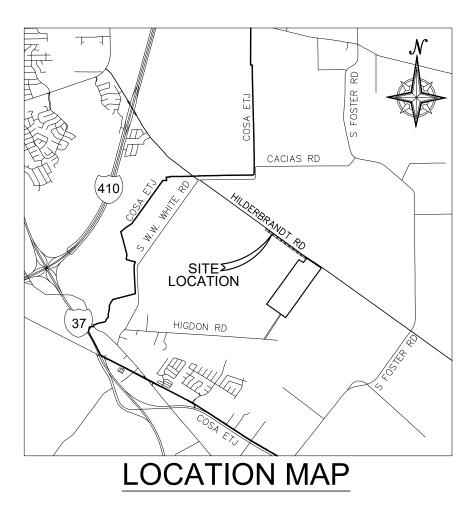
	WATER QUANTITIES Offsite Water Along Hildebrandt		
Item No:	Description	Unit	Quantity
550.0	Trench Protection	L.F.	3238
818.0	12" Pipe, P.V.C. C-900, Class 235 (DR-18)	L.F.	3238
828.0	12" Gate Valve MJ W/ Box	EA.	4
834.1	Standard Fire Hydrant	EA.	4
836.0	D.I. MJ Compact Fittings (C153)	TON	1.4
840.0	12" PVC Water Tie-In To Existing 12" PVC/D.I.	EA.	2
841.0	Hydrostatic Test	LS.	1
844.0	2" Blowoff (Temporary)	EA.	2
856.3	24" Steel Sleeve	L.F.	72
-	Remove And Replace 6" Rip-Rap W/ Rebar	SY	53
-	Traffic Control	LS.	1

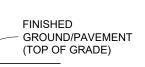


**TYPICAL SANITARY SEWER/** WATER CROSSING DETAIL

NOT TO SCALE



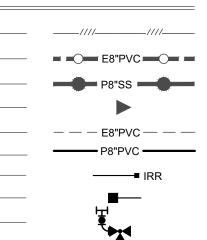




WHERE SEWER PIPE CROSSES A WATER LINE. THE SEWER SHALL BE 160PSI AND MEET THE REQUIREMENTS OF ASTM 02241 - WITH ONE 20' JOINT CENTERED AT THE WATER CROSSING.



EXISTING EDGE OF PAVEMENT EXISTING SANITARY SEWER MAIN PROPOSED SANITARY SEWER MAIN DIRECTION OF FLOW EXISTING WATER MAIN PROPOSED WATER MAIN IRRIGATION SERVICE -----PROPOSED WATER SERVICE / METER PROPOSED FIRE HYDRANT



## NOTES:

1) SAWS REQUIRES GCPs AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS. 2) ANCHORAGE/THRUST BLOCKING AND JOINT RESTRAINTS SHALL BE DONE IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION. (ITEM NO. 839)

3) ALL 12"AND 8" PVC WATER PIPE BEING USED FOR THIS PROJECT IS C-900, CLASS 235 (DR-18). 4) THE SAN ANTONIO WATER SYSTEM IS HEREBY GRANTED THE RIGHT OF INGRESS AND EGRESS ACROSS GRANTOR'S ADJACENT PROPERTY TO ACCESS THE WATER AND/OR WASTEWATER EASEMENTS SHOWN.

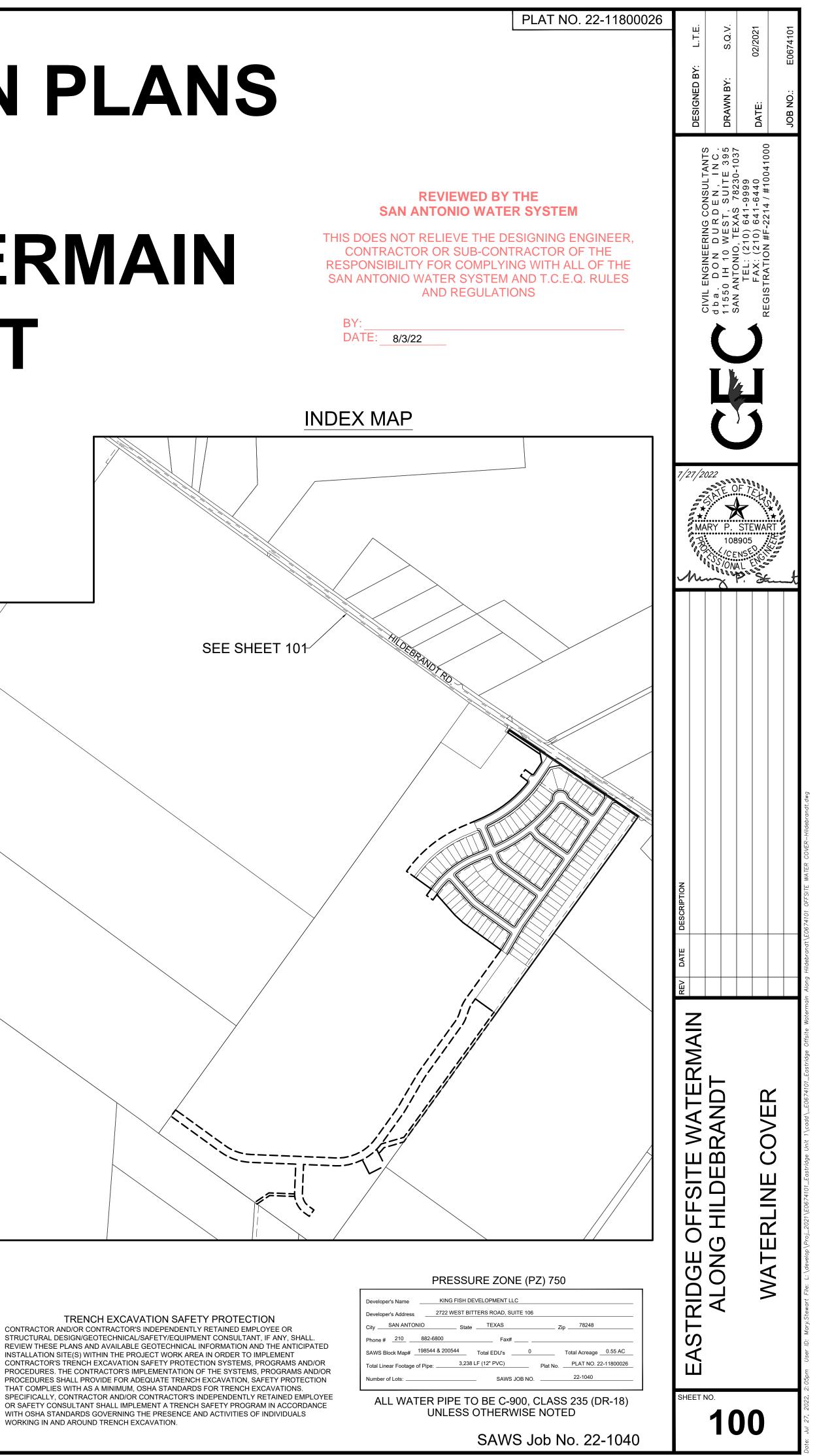
5) UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

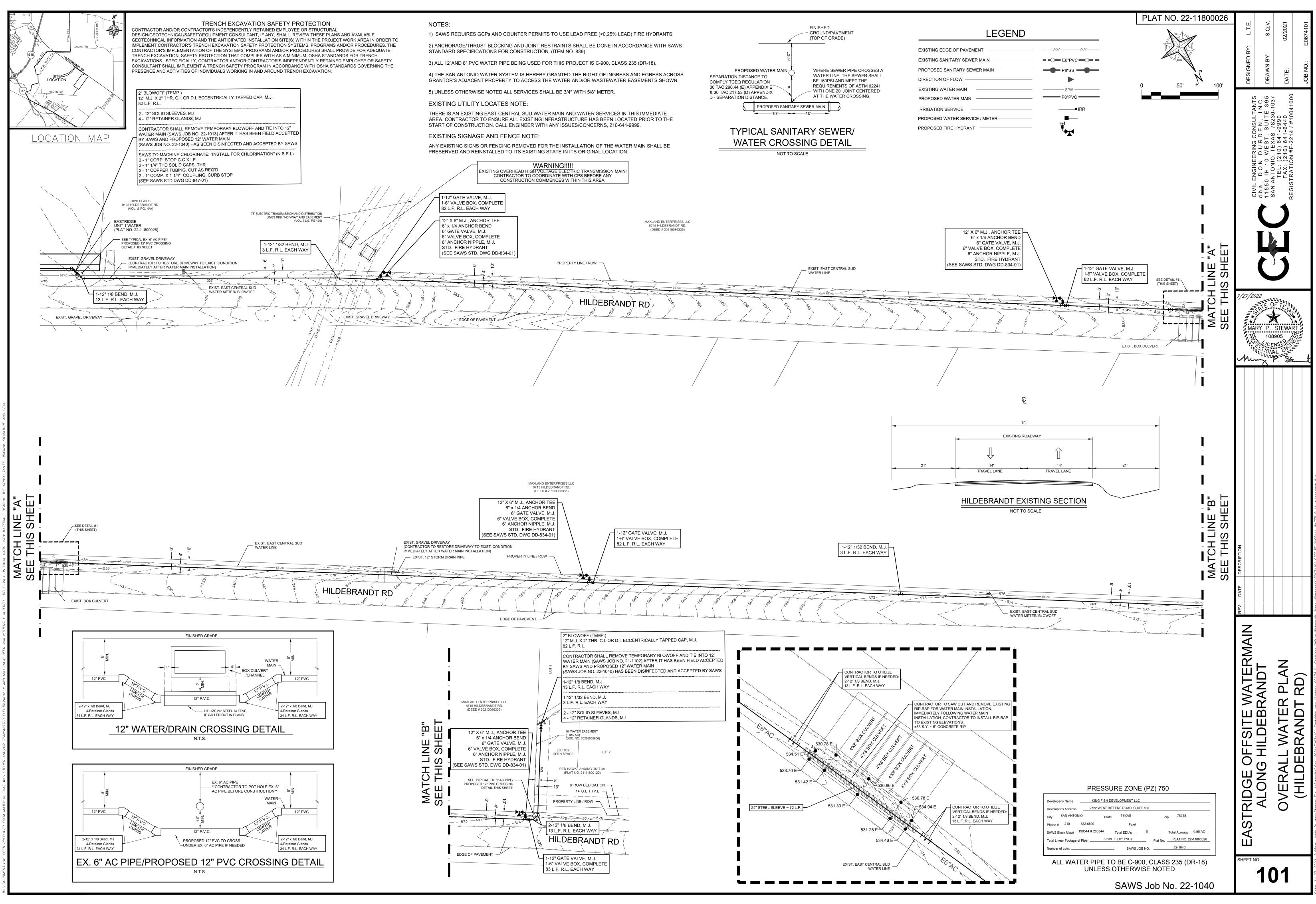


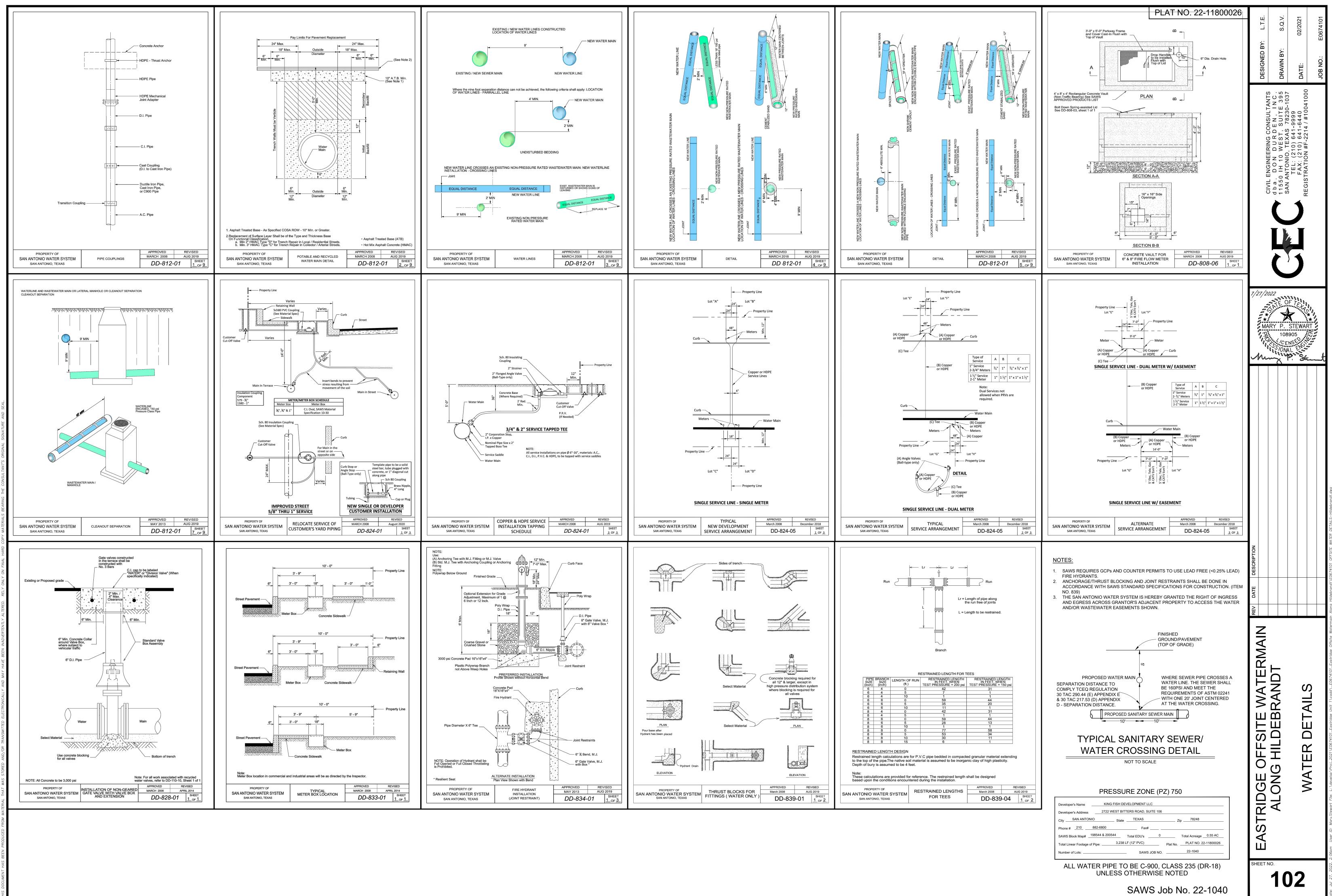
CIVIL ENGINEERING CONSULTANTS DON DURDEN, INC. 1550 I.H. 10 WEST, SUITE 395 SAN ANTONIO, TEXAS 78230 P) 210.641.9999 F) 210.641.6440 REGISTRATION #F-2214 SURVEY LICENSE #10041000 Email: cec@cectexas.com

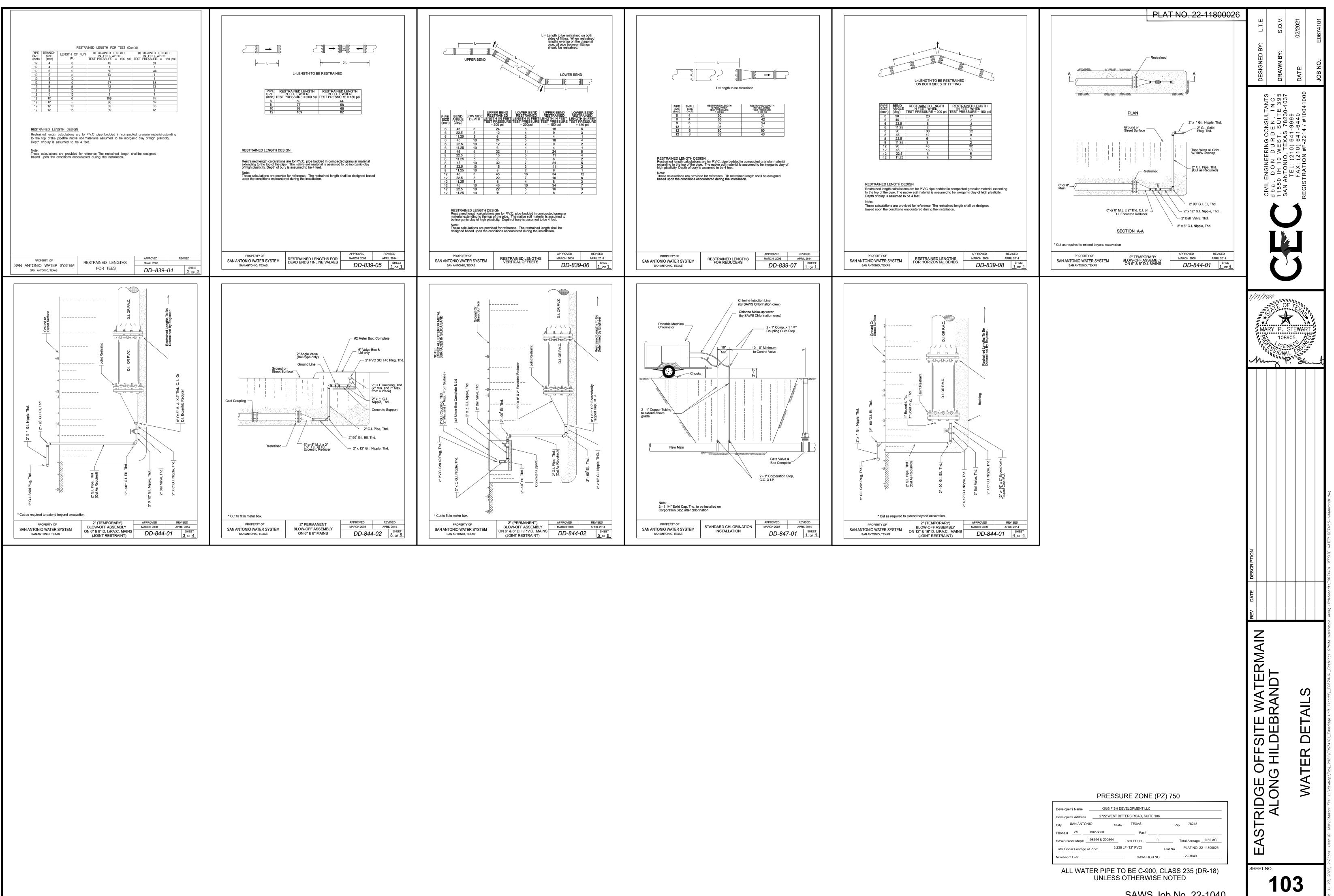
OWNER/DEVELOPER: KING FISH DEVELOPMENT LLC 2722 WEST BITTERS ROAD, SUITE 106 SAN ANTONIO, TX 78248 PHONE: (210) 882-6800

WORKING IN AND AROUND TRENCH EXCAVATION.









SAWS Job No. 22-1040