# ARCADIA RIDGE PHASE 1 - UNIT 4B-2

## BEXAR COUNTY, TEXAS WATER IMPROVEMENTS PLAN OF RECORD

### GENERAL WATER NOTES

- 1. All materials and construction procedures within the scope of this project shall be approved by the San Antonio Water System (SAWS) and comply with the following as applicable:
- Current "San Antonio Water System Standard Specifications for Construction"
- Current "San Antonio Water System Utility Service Regulations" Current City of San Antonio "Standard Specifications for Public Works Construction"
- Current TxDOT "Standard Specification for Construction of Highways, Streets and Drainage" Current City of San Antonio "Right - Of - Way Ordinance and Criteria Manual".
- 2. The Contractor shall not proceed with any pipe installation work until they obtain a copy of the approved G.C.P. 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.
- 3. The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction.

San Antonio Water System (Water, Sewer & Recycle Water) COSA Drainage City Sidewalk and Trenching Division 210-821-3240 COSA Traffic Signal Operations 210-207-7765 "Texas State Wide One Call Locator 1-800-545-6005 City Public Service Time Warner

- 4. No meter boxes to be set in driveways. Any meter boxes set in driveways will be relocated at contractor's and/or
- 5. The Contractor shall be responsible for restoring to its original or better condition from damage done to existing fences, curbs, streets, driveways, landscaping and structures.
- 6. The Contractor shall avoid cutting roots larger than one inch in diameter when excavating near existing trees. Excavation in vicinity of trees shall proceed with caution. The Contractor shall contact the City Arborist at 207-8053 and the SAWS construction inspector for guidance

Valero Energy Co.

- 7. No extra-payment shall be allowed for work called for on the plans but not included on the bid schedule. This incidental work will be required and shall be included under the pay item to which it relates.
- 8. The Developer dedicates the water mains upon completion by the Developer and acceptance by the San Antonio Water System. The San Antonio Water System will own and maintain said water mains which are located within this particular subdivision. (As applicable)

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 area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA Standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee 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

10. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE SAN ANTONIO WATER SYSTEM CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

- 11. The contractor will keep the area on top of and around the water meter box free of all objects and debris.
- 12. Water System to be completely restrained. Restrained length calculations are for P.V.C. Pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.
- Note: These calculations are provided for reference. The restrained lengths shall be designed base upon the conditions
- encountered during the installation. See SAWS Specification Book

### ADDITIONAL WATER NOTES 1. All valves shall read "open right"

- 2. Lead Free Fire Hydrants:
- "SAWS require GCPs and counter permits to use lead free (< 0.25% lead) fire hydrants."

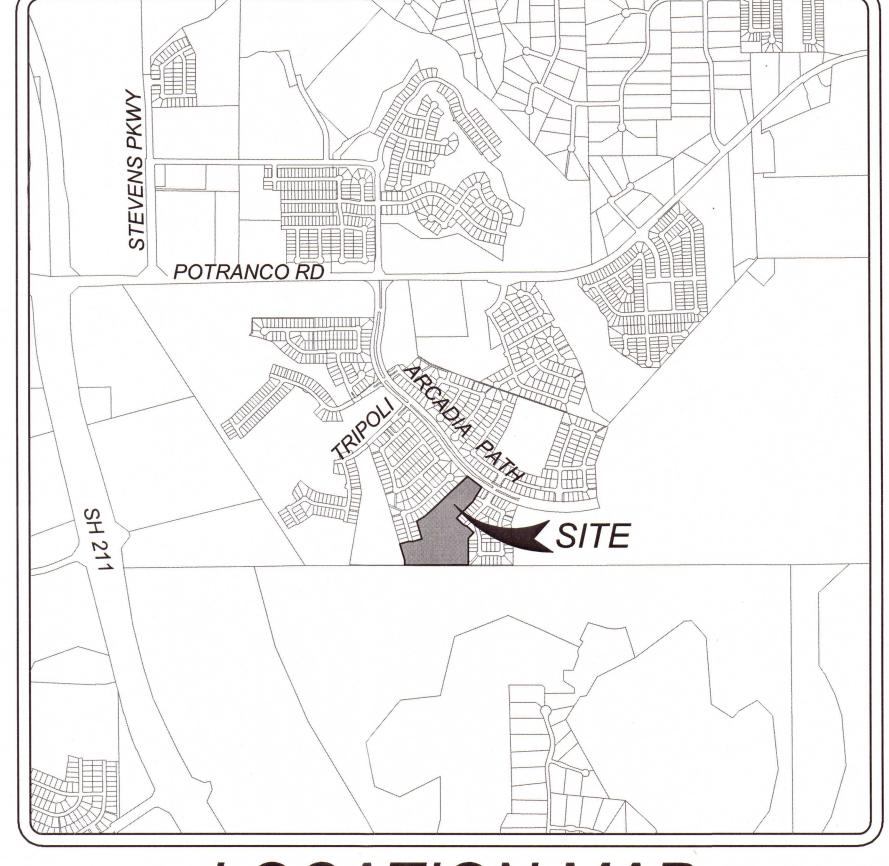
## Contractor to verify that no portion of the tract is below ground elevation of 765 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 765 feet, the Developer or Builder

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). THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND

- FOR PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT
- ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR/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. 5. Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item #847):

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.
- 6. Spills, Overflows, or Discharges of Wastewater: Attention Contractors: All spills, overflows, or discharges of wastewater, recycled water, petroleum products, or chemicals must be reported immediately to the SAWS Inspector assigned to your counter permit or General Construction Permit (GCP). This requirement applies to every spill, overflow, or discharge - regardless of size. Your compliance will enable SAWS to fulfill regulatory reporting requirements.
- It is the Contractor's responsibility to control sewer flows so that a spill overflow, or discharge does not occur. In The event that a spill, overflows, or discharge occurs, the Contractor may liable for:
- 1. All fines, penalties, or other costs assessed to or against SAWS by any State, Federal, or other governmental
- 2. SAWS staff and material costs to respond to the spill, overflow, or discharge, or to mitigate the effects of the spill, overflow, or discharge, or to support the cleanup effort.
- 3. All damages caused to SAWS, or any other persons or entities that result from the spill, overflow or discharge.
- 7. Fire Hydrants within DSP Areas (former Bexar Metropolitan Water District areas): Fire hydrants shall be painted with appropriate SAWS colors.
- 8. Back Flow Prevention Devices for Residential Subdivisions: All irrigation services within residential areas are required to have back flow prevention devices.

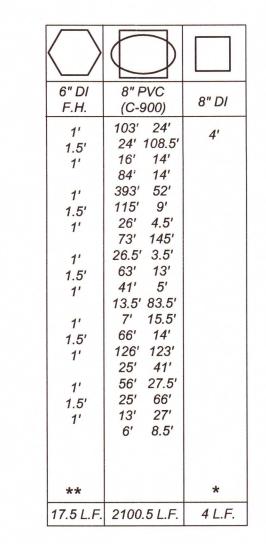


LOCATION MAP N.T.S.

OWNER/DEVELOPER: CTMGT RANCHO DEL LAGO, LLC 1800 VALLEY VIEW LANE, SUITE 300 FARMERS BRANCH, TX 75234 PHONE: (469) 892-7200

## INDEX

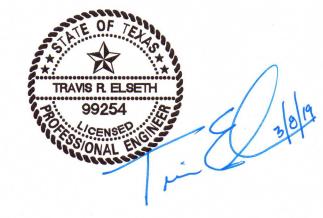
DESCRIPTION	SHEET NO.
WATER IMPROVEMENT COVER SHEET	7.0
WATER DISTRIBUTION PLAN WATER DETAIL SHEET	7.1



	A RIDGE PHASE 1, UNIT 4B-2 OF RECORD MATERIAL LIST
CONTRACTOR	: SACC, INC.
S.A.W.S. INSPE	ECTOR: RICK CARASU
FIELD ACCEPT	TANCE DATE: 12/21/2018
ITEM	MANUFACTURING
PIPE	NORTH AMERICAN
VALVE	AMERICAN FLOW CENTRAL
FITTINGS	TYLER
HYDRANTS	AMERICAN FLOW CENTRAL

DI PIPE PAID AS PVC

\*\* NON PAY ITEM



**ENGINEERS + SURVEYING** 3421 Paesanos Pkwy Suite 200, San Antonio, TX 78231 Phone #: (210) 979-8444 • Fax #: (210) 979-8441 TBPE Firm #: 9513 • TBPLS Firm #: 10122300

## "PLAN OF RECORD"

I HEREBY CERTIFY THAT THIS PLAN OF RECORD IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND WAS PREPARED UNDER MY SUPERVISION.

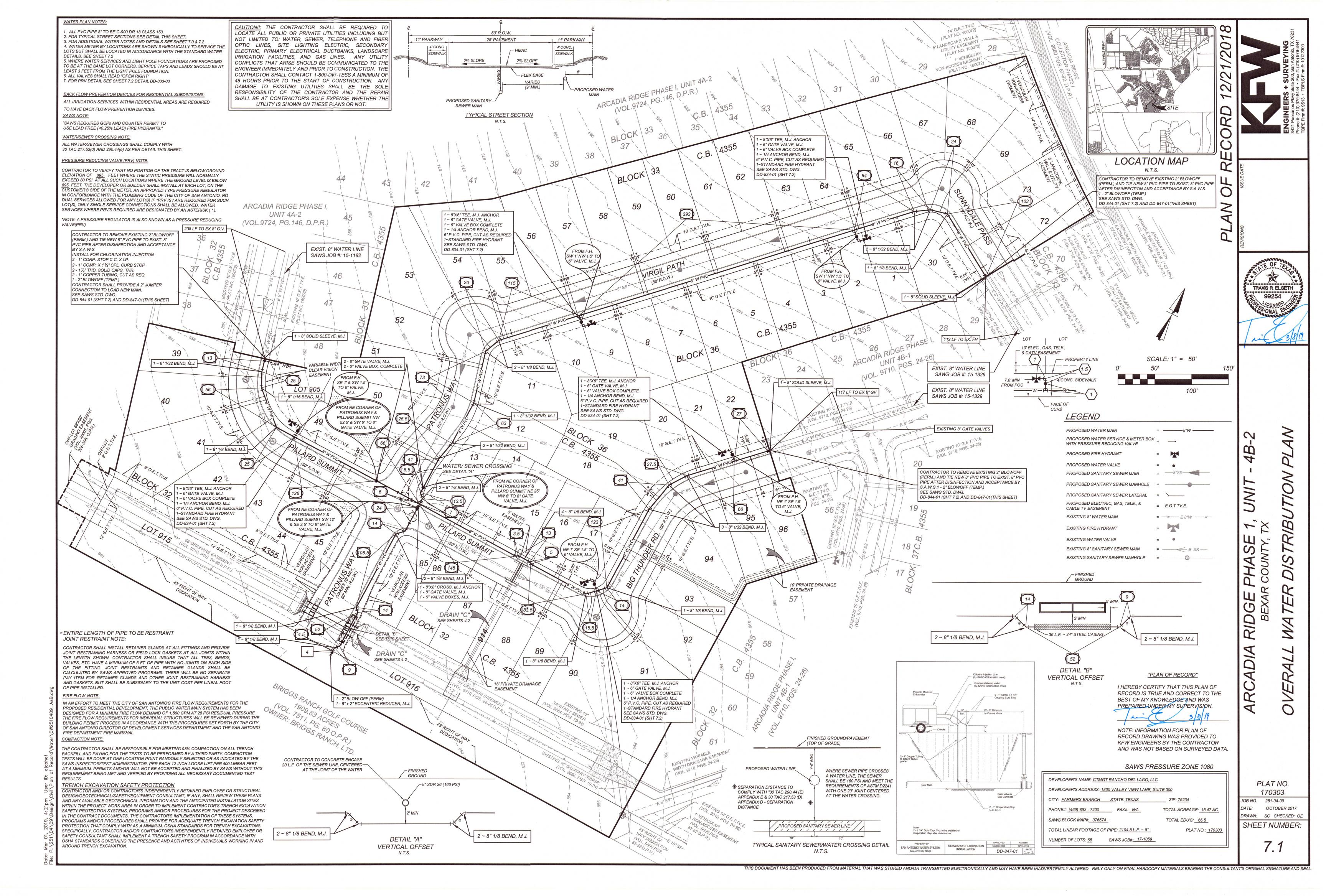
NOTE: INFORMATION FOR PLAN OF RECORD DRAWING WAS PROVIDED TO KFW ENGINEERS BY THE CONTRACTOR AND WAS NOT BASED ON SURVEYED DATA. SAWS PRESSURE ZONE 1080

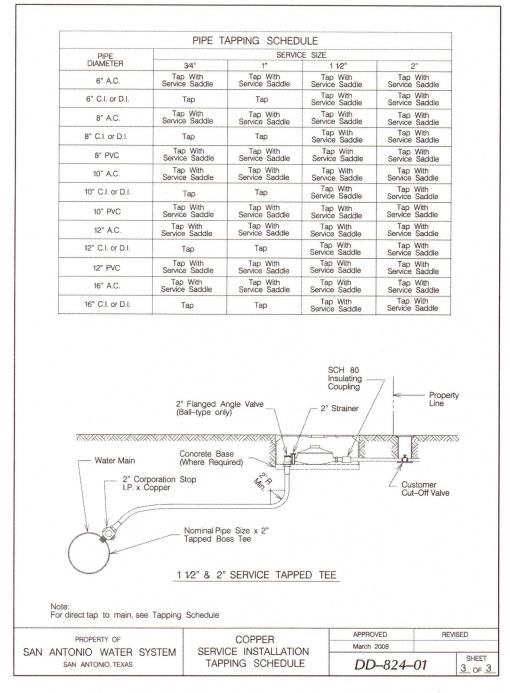
DEVELOPER'S NAME: CTMGT RANCHO DEL LAGO, LLC DEVELOPER'S ADDRESS: 1800 VALLEY VIEW LANE, SUITE 300 CITY: FARMERS BRANCH STATE: TEXAS PHONE#: (469) 892 - 7200 FAX#: N/A TOTAL ACREAGE: 15.47 AC. SAWS BLOCK MAP#: 076574 TOTAL EDU'S: 66.5

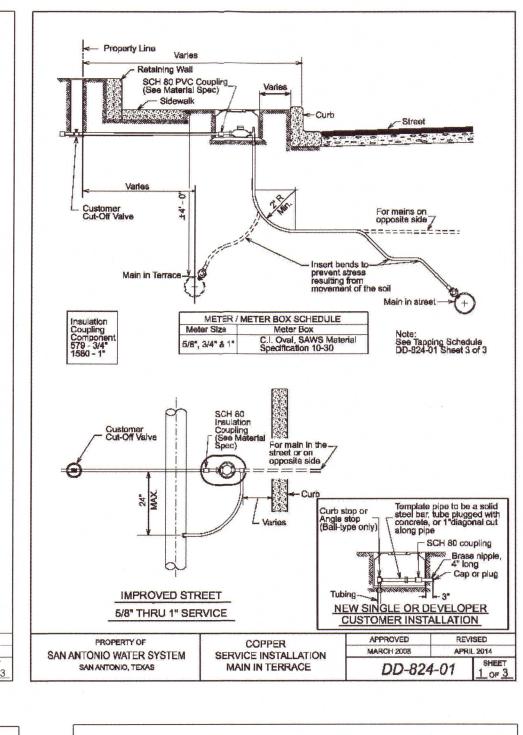
TOTAL LINEAR FOOTAGE OF PIPE: 2104.5 L.F. ~ 8"

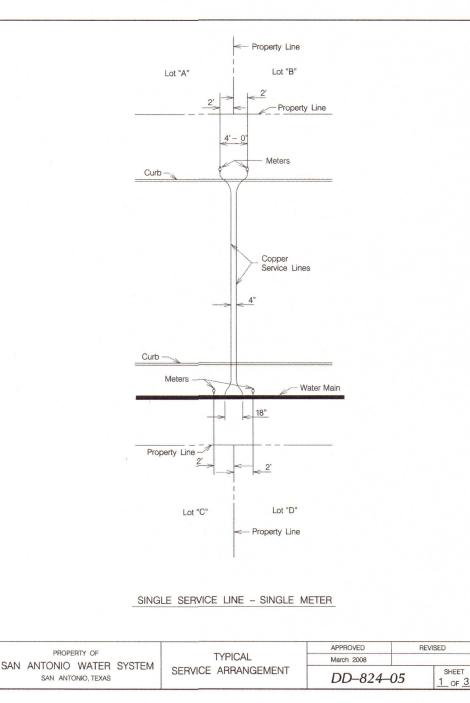
NUMBER OF LOTS: 65 SAWS JOB#: 17-1059

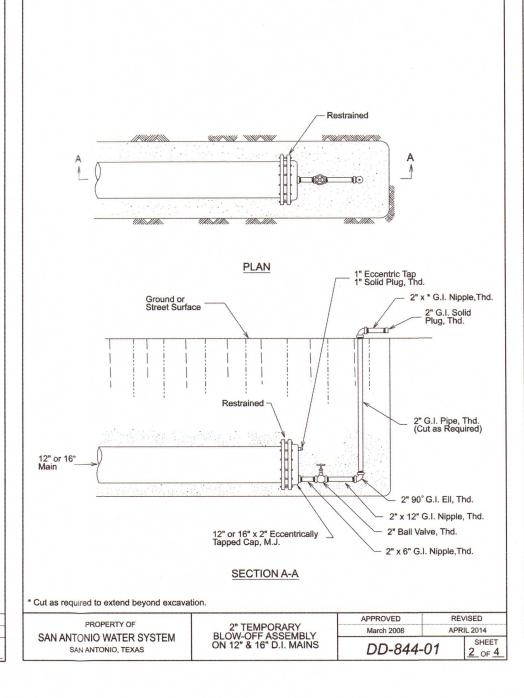
PLAT NO.: 170303

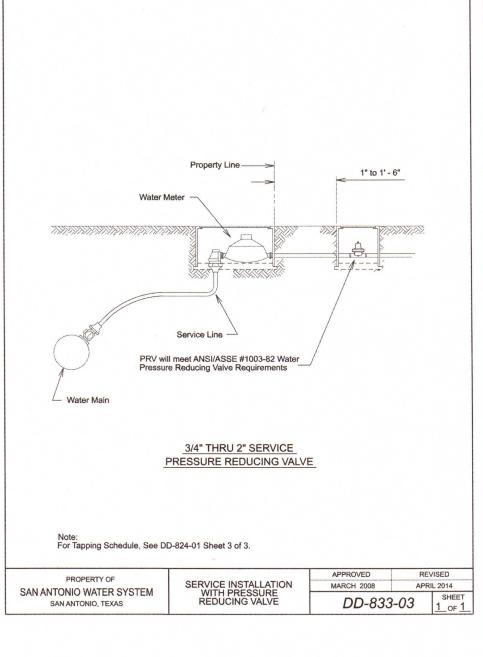


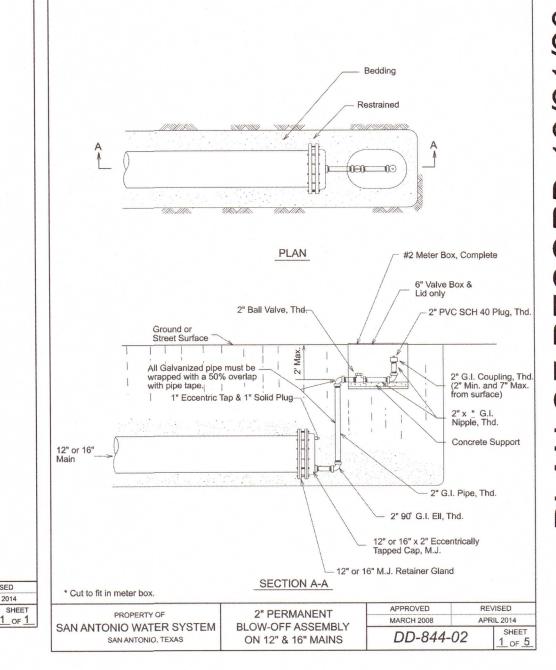


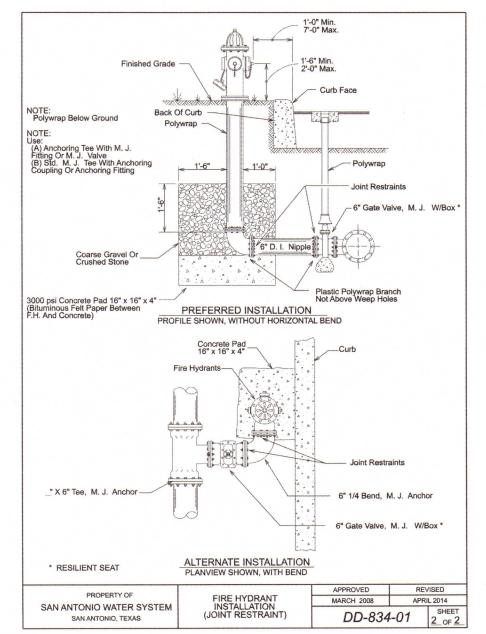


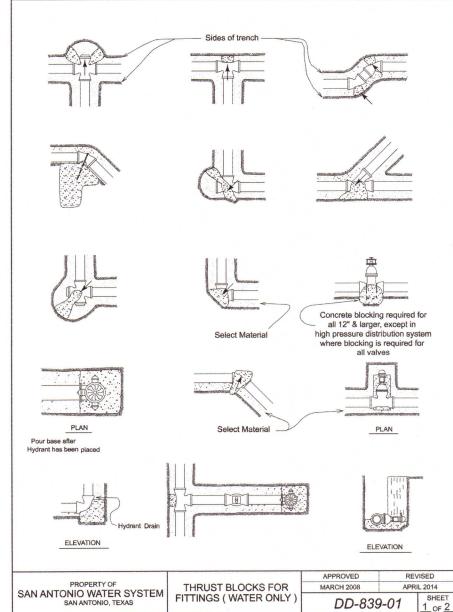


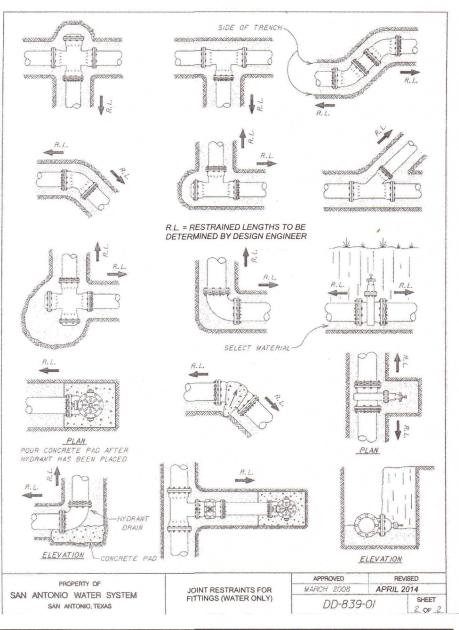


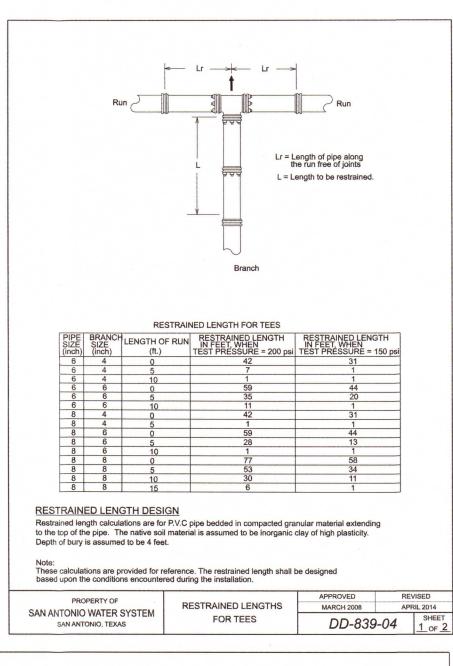


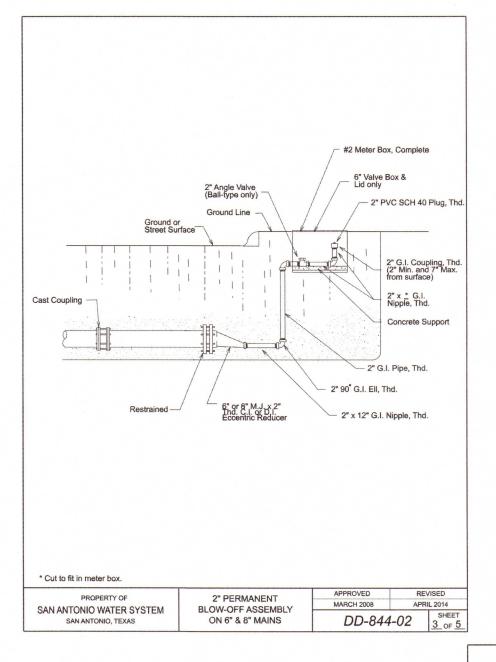


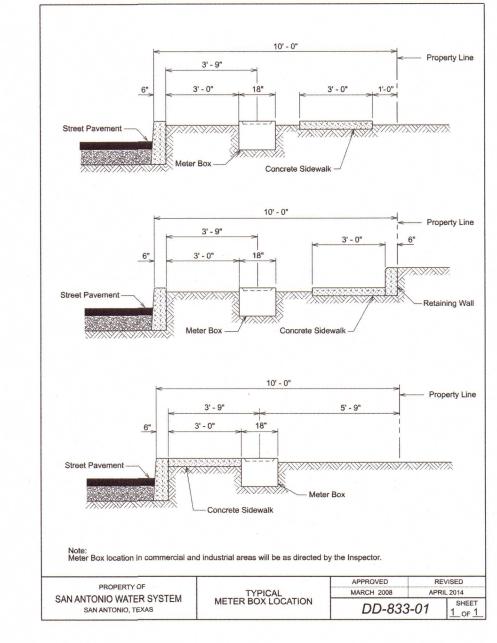


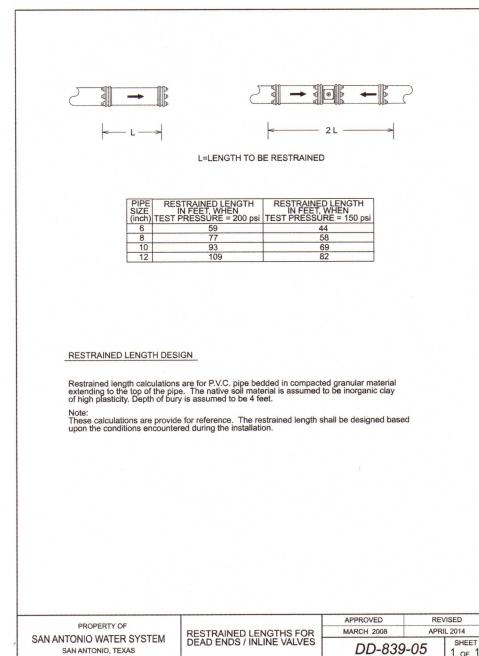




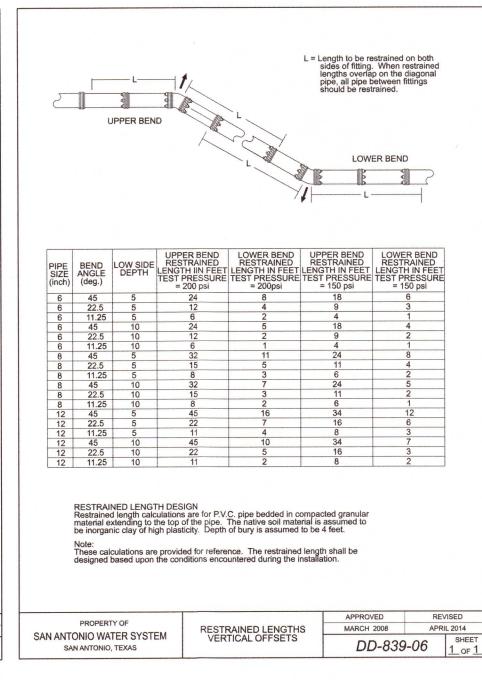


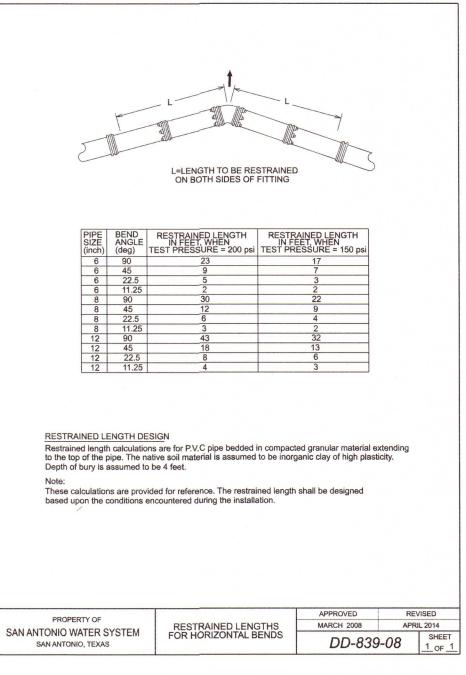


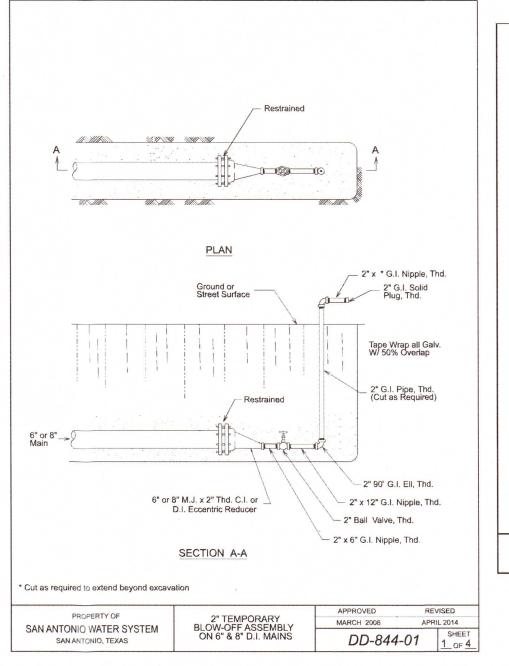


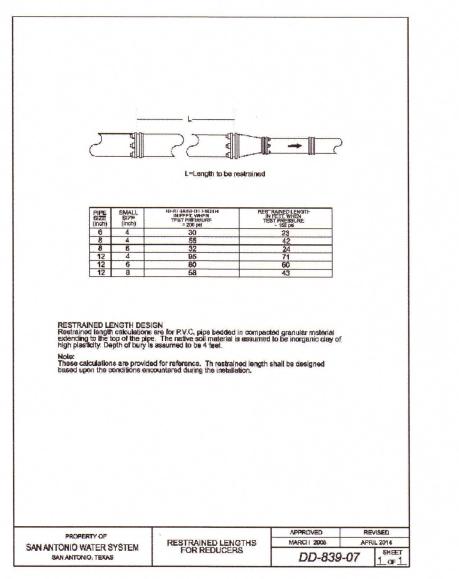


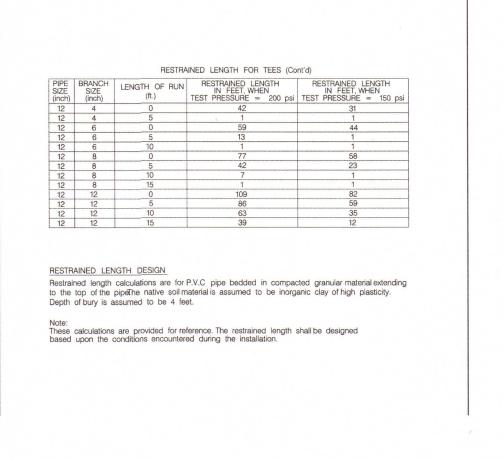
SAN ANTONIO, TEXAS











PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO TEXAS	RESTRAINED LENGTHS FOR TEES	APPROVED	RE	REVISED	
		March 2008			
		DD-839-0	04	2 c	

SAWS PRESSURE ZONE 1080					
DEVELOPER'S NAME: CTMGT RANCHO DEL LAGO, LLC					
DEVELOPER'S ADDRESS: 1800 VALLEY VIEW LANE, SUITE 300					
CITY: <u>FARMERS BRANCH</u> <u>ST</u> ATE: <u>TEXAS</u>	ZIP: <u>75234</u>				
PHONE#: <u>(469) 892 - 7200</u> FAX#: <u>N/A</u>	TOTAL ACREAGE: 15.47 AC.				
SAWS BLOCK MAP#:_076574_	TOTAL EDU'S: 66.5				
TOTAL LINEAR FOOTAGE OF PIPE: 2104.5 L.F. ~ 8"	PLAT NO.: <u>170303</u>				
NUMBER OF LOTS: <u>65</u> SAWS JOB#: <u>17-1059</u>					

PLAT NO. 170303 JOB NO. 251-04-09 DATE: OCTOBER 2017 DRAWN: SC CHECKED: OE SHEET NUMBER:

TRAVIS R. ELSETH

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AND WAS NOT BASED ON SURVEYED DATA. THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL

"PLAN OF RECORD"

I HEREBY CERTIFY THAT THIS PLAN OF

BEST OF MY KNOWLEDGE AND WAS

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RECORD IS TRUE AND CORRECT TO THE