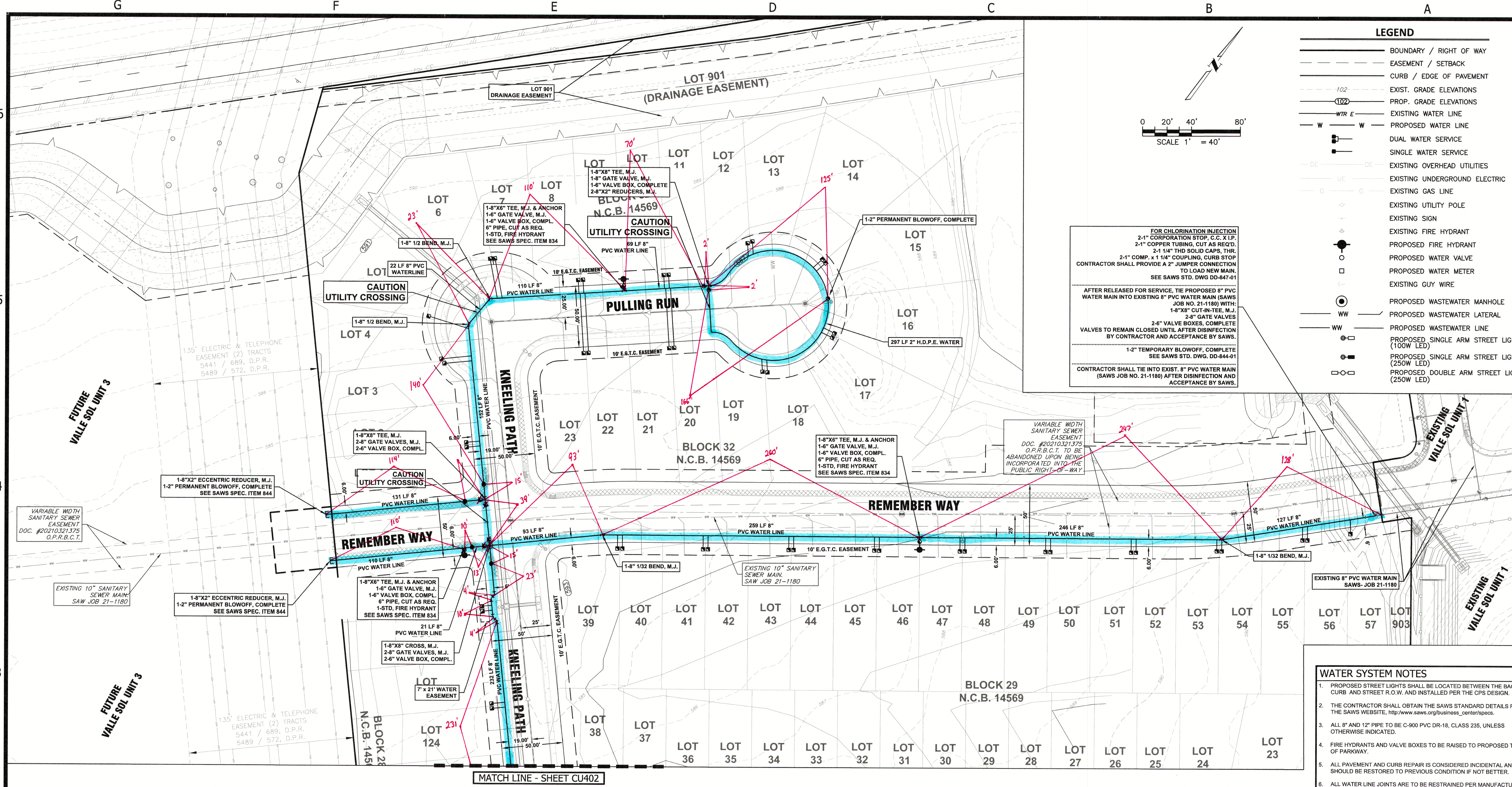
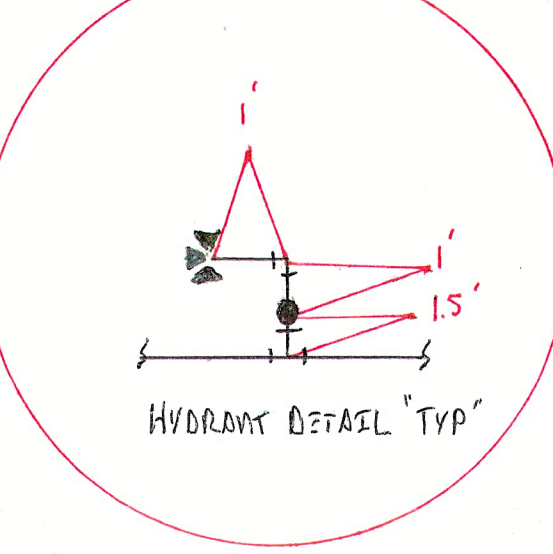
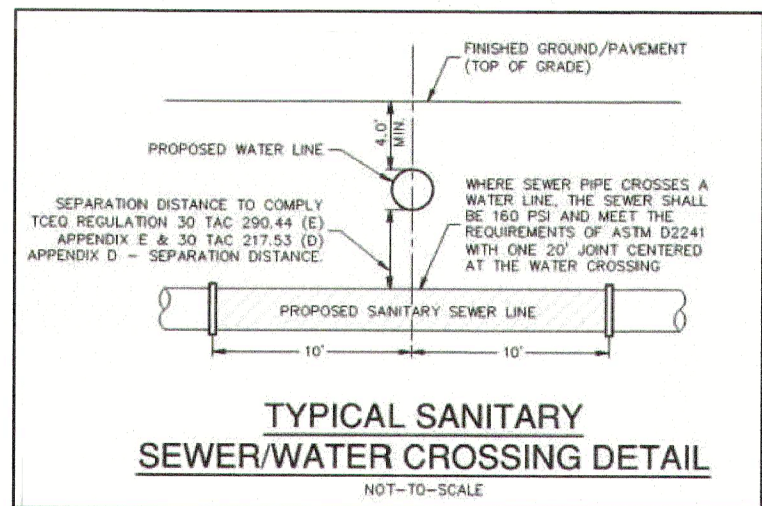
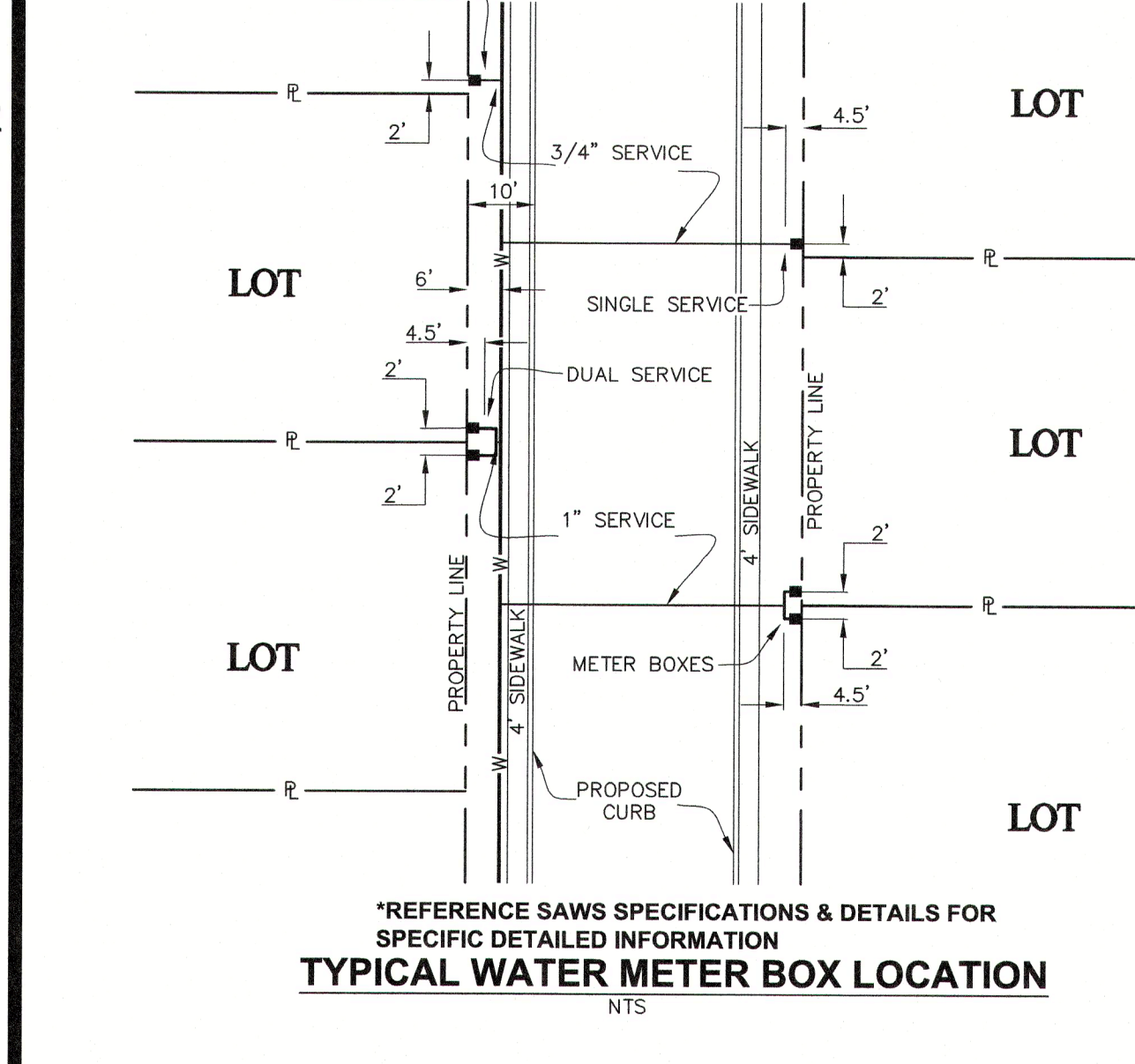


FILE NAME: U:\PROJECTS\198 - VALLE SOL UNIT 2A - UNIT 2 REMEDIATION\DWG\198-2 - CU401 - UNIT 2 WATER SYSTEM.DWG  
LAST MODIFIED ON: January 15, 2024  
LAST PLOTTED ON: January 15, 2024  
PLOT STYLE: VLS UP PRODUCTION STANDARD.CTB



1 REVISED SHEET

**SAWS PRESSURE ZONE 790**

Developer: **LENNAR HOMES OF TEXAS LAND & CONSTRUCTION, LTD.**

Address: **100 NE LOOP 410, SUITE 1155**

City: **SAN ANTONIO** State: **TEXAS** Zip: **78216**

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

SAWS Block Map: **122-536** Total EDUs: **195** Total Acreage: **33.62**

Total Linear Footage of Pipe: **5,643 L.F. 8\"/>**

Number of Lots: **4 N.S.F.** SAWS Job No.: **22-1183**

- WATER SYSTEM NOTES**
1. PROPOSED STREET LIGHTS SHALL BE LOCATED BETWEEN THE BACK OF CURB AND STREET R.O.W. AND INSTALLED PER THE CPS DESIGN.
  2. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [http://www.saws.org/business\\_center/specs](http://www.saws.org/business_center/specs).
  3. ALL 8" AND 12" PIPE TO BE C-900 PVC DR-18, CLASS 235, UNLESS OTHERWISE INDICATED.
  4. FIRE HYDRANTS AND VALVE BOXES TO BE RAISED TO PROPOSED TOP OF PARKWAY.
  5. ALL PAVEMENT AND CURB REPAIR IS CONSIDERED INCIDENTAL AND SHOULD BE RESTORED TO PREVIOUS CONDITION IF NOT BETTER.
  6. ALL WATER LINE JOINTS ARE TO BE RESTRAINED PER MANUFACTURERS RECOMMENDATIONS.
  7. REFERENCE SHEET CU401 FOR WATER METER LOCATION DETAILS.
  8. ALL SYMBOLS ARE ONLY FOR PICTORIAL PURPOSES AND THE REPLACEMENTS OF ALL APPURTENANCES SHOULD FOLLOW ALL CODE REQUIREMENTS.

**TRENCH EXCAVATION SAFETY PROTECTION**

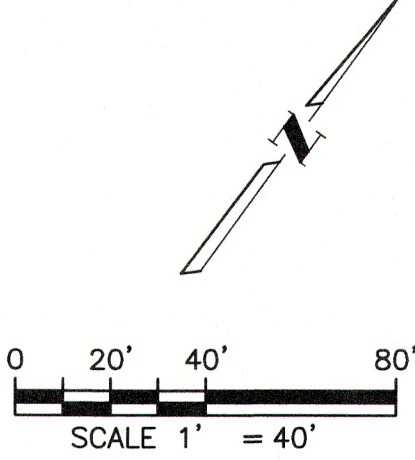
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATE INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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.

**JOINT RESTRAINT NOTE:**

CONTRACTOR SHALL INSTALL RETAINER GLANDS OR MEGALUGS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESS OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS OR MEGALUGS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS AND VERIFIED BY SAWS INSPECTOR. CONTRACTOR SHALL INSTALL CONCRETE THRUST BLOCKING IN ACCORDANCE WITH SAWS STD. DRAWING 859 IN ADDITION TO JOINT RESTRAINTS UNLESS OTHERWISE DIRECTED BY THE SAWS INSPECTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE JOINT RESTRAINTS AND THRUST BLOCKING WITH THE SAWS INSPECTOR.

**!!! CAUTION !!!**

CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTEST @ 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.



- LEGEND**
- BOUNDARY / RIGHT OF WAY
  - EASEMENT / SETBACK
  - CURB / EDGE OF PAVEMENT
  - EXIST. GRADE ELEVATIONS
  - PROP. GRADE ELEVATIONS
  - EXISTING WATER LINE
  - PROPOSED WATER LINE
  - DUAL WATER SERVICE
  - SINGLE WATER SERVICE
  - EXISTING OVERHEAD UTILITIES
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - EXISTING SIGN
  - EXISTING FIRE HYDRANT
  - PROPOSED FIRE HYDRANT
  - PROPOSED WATER VALVE
  - PROPOSED WATER METER
  - EXISTING GUY WIRE
  - PROPOSED WASTEWATER MANHOLE
  - PROPOSED WASTEWATER LATERAL
  - PROPOSED WASTEWATER LINE
  - PROPOSED SINGLE ARM STREET LIGHT (100W LED)
  - PROPOSED SINGLE ARM STREET LIGHT (250W LED)
  - PROPOSED DOUBLE ARM STREET LIGHT (250W LED)

**FOR CHLORINATION INJECTION**

2-1" CORPORATION STOP, C.C. X 1/2"

2-1" COPPER TUBING, CUT AS REQ'D.

2-1 1/4" THD SOLID CAPS, THR.

2-1" COMP. X 1 1/4" COUPLING, CUNE STOP

CONTRACTOR SHALL PROVIDE A 2" JUMPER CONNECTION TO LOAD NEW MAIN, SEE SAWS STD. DWG DD-847-01

**AFTER RELEASED FOR SERVICE, TIE PROPOSED 8" PVC WATER MAIN INTO EXISTING 8" PVC WATER MAIN (SAWS JOB NO. 21-1180) WITH:**

1-8"X8" OUT-IN-TEE, M.J.

2-8" GATE VALVES

2-8" VALVE BOXES, COMPLETE

VALVES TO REMAIN CLOSED UNTIL AFTER DISINFECTION BY CONTRACTOR AND ACCEPTANCE BY SAWS.

1-2" TEMPORARY BLOWOFF, COMPLETE SEE SAWS STD. DWG. DD-844-01

CONTRACTOR SHALL TIE INTO EXIST. 8" PVC WATER MAIN (SAWS JOB NO. 21-1180) AFTER DISINFECTION AND ACCEPTANCE BY SAWS.

VARIABLE WIDTH SANITARY SEWER EASEMENT DOC. #20210321375 O.P.R.B.C.T. TO BE ABANDONED UPON BEING INCORPORATED INTO THE PUBLIC RIGHT-OF-WAY

**UP ENGINEERING + SURVEYING**

11903 JONES MALTSBERGER, SUITE 102  
SAN ANTONIO, TX 78216 TEL. 210-774-5504  
WWW.UPENGINEERING.COM FAX. 210-774-17952

STATE OF TEXAS  
NATASHA RU UHLRICH  
89502  
LICENSED PROFESSIONAL ENGINEER  
11/8/24

LENNAR HOMES OF TEXAS  
LAND & CONSTRUCTION, LTD.  
100 NE LOOP 410, SUITE 1155  
SAN ANTONIO, TEXAS 78216

VALLE SOL UNIT 2 SUBDIVISION  
PLAT NO. 22-11800251

WATER SYSTEM (1)

REV	DATE	DESCRIPTION	BY
1	1/17/24	GRADING REVISIONS & VALLE ENGINEERING	JOS

DESIGNED BY: **JOS/TS**

DRAFTED BY: **JOS**

CHECKED BY: **NFU/RRP**

SHEET  
**CU401**

60 OF 65



## SAWS PRESSURE ZONE 790

Developer: LENNAR HOMES OF TEXAS LAND &amp; CONSTRUCTION, LTD.

Address: 100 NE LOOP 410, SUITE 1155

City: SAN ANTONIO State: TEXAS Zip: 78216

Phone: Fax:

SAWS Block Map: 122-536 Total EDUs: 195 Total Acreage: 33.62

Total Linear Footage of Pipe: 5,643 L.F. 8" PVC 297 L.F. 2" CU Plat No.: 22-11800251

Number of Lots: 195 S.F. SAWS Job No.: 22-1163

SEPARATION DISTANCE OR PROTECTION TO COMPLY WITH REQUIREMENTS OF 30 TAC 290.44(e) AND 217.53 (d) - NO CLOSER THAN NINE (9) FEET IN ALL DIRECTIONS.

## WATER/STORM DRAIN CROSSING DETAIL

## TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

SCALE 1" = 40'

## WATER SYSTEM NOTES

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5. ALL PAVEMENT AND CURB REPAIR IS CONSIDERED INCIDENTAL AND SHOULD BE RESTORED TO PREVIOUS CONDITION IF NOT BETTER.
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## !!! CAUTION !!!

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## LEGEND

- BOUNDARY / RIGHT OF WAY
- EASEMENT / SETBACK
- CURB / EDGE OF PAVEMENT
- EXIST. GRADE ELEVATIONS
- PROP. GRADE ELEVATIONS
- EXISTING WATER LINE
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- DUAL WATER SERVICE
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- EXISTING OVERHEAD UTILITIES
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- EXISTING GAS LINE
- EXISTING UTILITY POLE
- EXISTING SIGN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED WATER METER
- EXISTING GUY WIRE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED WASTEWATER LATERAL
- PROPOSED WASTEWATER LINE
- PROPOSED SINGLE ARM STREET LIGHT (100W LED)
- PROPOSED SINGLE ARM STREET LIGHT (250W LED)
- PROPOSED DOUBLE ARM STREET LIGHT (250W LED)

FOR CHLORINATION INJECTION  
2-1/2" CORPORATION STOP, C.C. X I.P.  
2-1/2" COPPER TUBING, CUT AS REQ'D.  
2-1/4" THD SOLID CAPS, THR.  
2-1/4" COMP. x 1 1/4" COUPLING, CURB STOP  
CONTRACTOR SHALL PROVIDE A 2" JUMPER CONNECTION TO LOAD NEW MAIN.  
SEE SAWS STD. DWG DD-847-01

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2-6" VALVE BOXES, COMPLETE  
VALVES TO REMAIN CLOSED UNTIL AFTER DISINFECTION BY CONTRACTOR AND ACCEPTANCE BY SAWS.

1-2" TEMPORARY BLOWOFF, COMPLETE  
SEE SAWS STD. DWG. DD-844-01

CONTRACTOR SHALL TIE INTO EXIST. 8" PVC WATER MAIN (SAWS JOB NO. 21-1180) AFTER DISINFECTION AND ACCEPTANCE BY SAWS.



LENNAR HOMES OF TEXAS  
LAND & CONSTRUCTION, LTD.  
100 NE LOOP 410, SUITE 1155  
SAN ANTONIO, TEXAS 78216

VALLE SOL UNIT 2 SUBDIVISION  
PLAT NO. 22-11800251

WATER SYSTEM (2)

DESIGNED BY:	JOS/TS
DRAFTED BY:	JOS/TS
CHECKED BY:	NFU/RRP
DATE	
REV	DESCRIPTION
1	11/2/24 GRADING REVISIONS & VALUE ENGINEERING

SHEET  
CU402

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