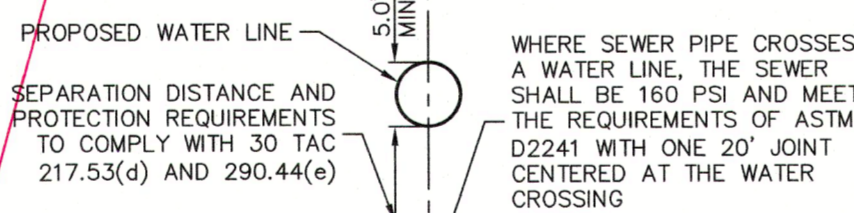


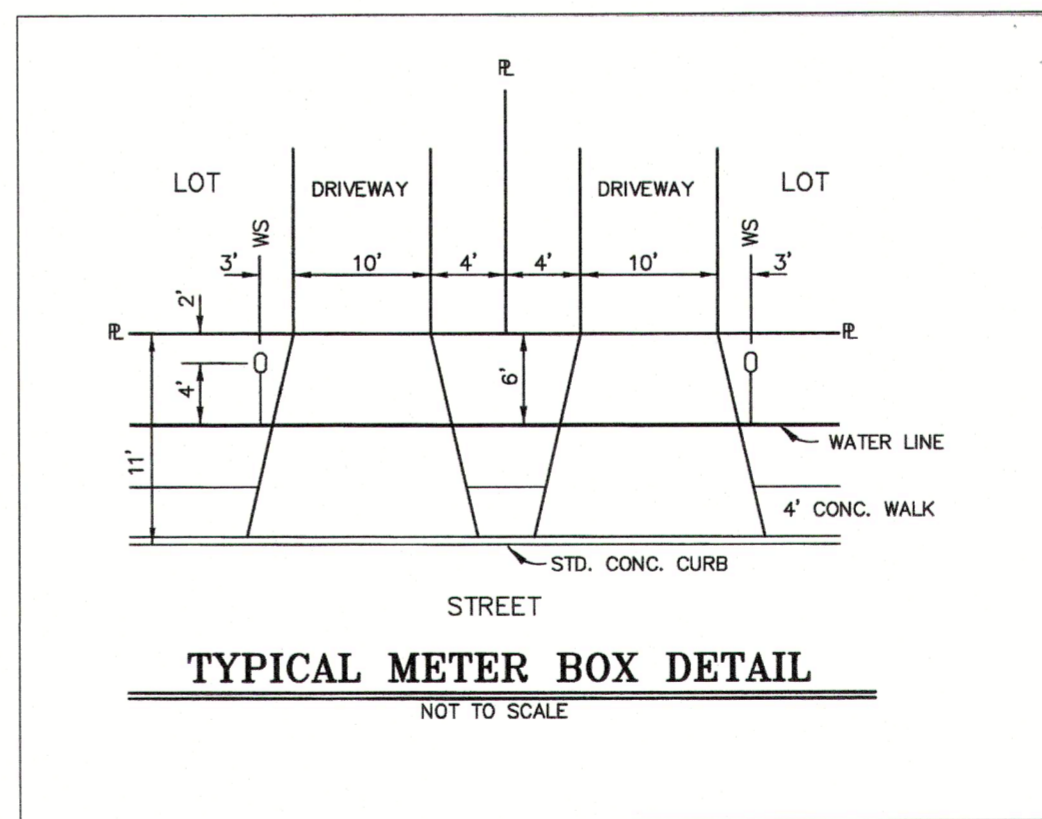
**DRAIN CROSSING DETAIL "A"**  
SCALE: NOT-TO-SCALE

WATER CROSSING TABLE OF PIPE LENGTHS				
LOCATION	STRUCTURE	SIZE	"A"	"B"
DRAIN "A"	DRAIN "A" & "B"	8"	7'	17'

\* ALL RETAINER GLANDS TO BE MEGA LUG TYPE



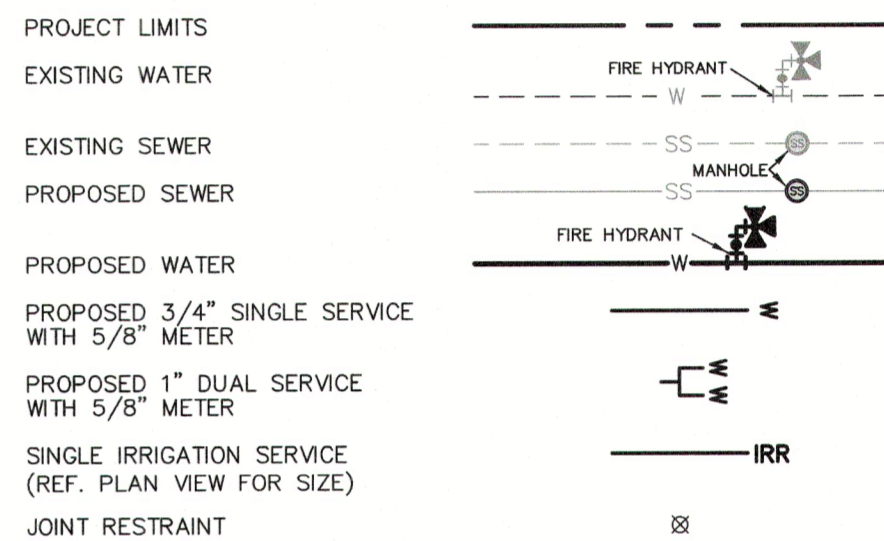
**TYPICAL SANITARY  
SEWER/WATER CROSSING DETAIL**  
NOT-TO-SCALE



**TYPICAL METER BOX DETAIL**  
NOT TO SCALE

- KEYED NOTE:**
- 1 - STANDARD FIRE HYDRANT  
1 - 8" X 6" ANCHOR TEE, M.J.  
6" D.I. PIPE, CUT AS REQ'D  
1 - 6" 1/4 ANCHOR BEND, M.J.  
1 - 6" GATE VALVE, M.J.  
1 - 6" VALVE BOX, COMPLETE  
(SEE SAWS DETAIL DD-834-01 SHEET 2 OF 2)
  - 2 - FOR CHLORINATION INJECTION:  
2 - 1" CORPORATION STOP, CC X IP  
2 - 1" COPPER TUBING, CUT AS REQ'D  
2 - 1" COMP. X 1/4" COUPLING, CURB STOP  
(SEE DETAIL SHEET C4.10)  
CONTRACTOR TO TIE INTO EXISTING  
8" PVC WATER MAIN  
AFTER DISINFECTION AND ACCEPTANCE BY SAWS  
SAWS JOB NO. 20-1285
  - 3 - 10' GETCTV EASEMENT
  - 4 - 1-8" 90° BEND, M.J.
  - 6 - 15' GETCTV EASEMENT
  - 7 - 5' WATER EASEMENT
  - 1 - VARIABLE WIDTH GASE, ELECTRIC,  
TELEPHONE AND CABLE TV EASEMENT  
(VOL. 20002, PG 1654-1656, PR)

## WATER LEGEND



## FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

## PRESSURE REDUCING VALVE NOTE:

PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEOWNER.

## PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 605 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 605 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).

## JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES 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 SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

## 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.

## WATER (SAWS PRESSURE ZONE 790)

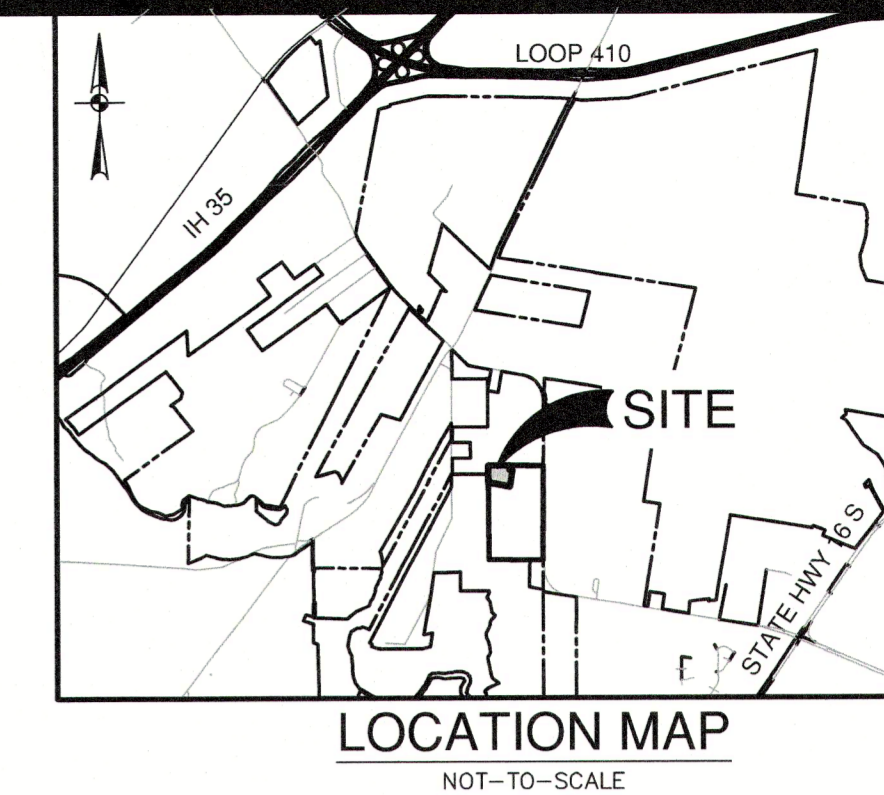
DEVELOPER'S NAME:	HABITAT FOR HUMANITY OF SAN ANTONIO
ADDRESS:	311 PROBANDT
CITY:	SAN ANTONIO
STATE:	TEXAS
ZIP:	78204
PHONE#	(210) 223-5203
FAX#	
SAWS BLOCK MAP#	1265526
TOTAL EDU'S	18
TOTAL ACREAGE	5.848
TOTAL LINEAR FOOTAGE OF PIPE	8-283 LF
PLAT NO.	22-11800636
NUMBER OF LOTS	18
SAWS JOB NO.	22-1237

**PAPE-DAWSON  
ENGINEERS**  
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1028680

**RANCHO CARLOTA UNIT 5**  
SAN ANTONIO, TEXAS

OVERALL WATER DISTRIBUTION PLAN

PLAT NO.	22-11800636
JOB NO.	12386-03
DATE	NOVEMBER 2022
DESIGNER	DL
CHECKED	AT
DRAWN	DD
SHEET	C4.00



NO.	REVISION	DATE
1	REVISED ALIGNMENT, CALCULATIONS	1/9/2023

