

# 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.

## JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS 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 6 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 HARNESS AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

## 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 1,500 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 (PRV) 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 REQUIRED FOR SUCH LOT(S). ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. WATER SERVICES WHERE PRVS REQUIRED ARE DESIGNATED BY AN ASTERISK (\*).

\*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV)

## WATER PLAN NOTES:

1. ALL VALVES SHALL READ "OPEN RIGHT"
2. ALL PVC PIPE TO BE C-900 CLASS 235 (DR 18)

## SAWS NOTE:

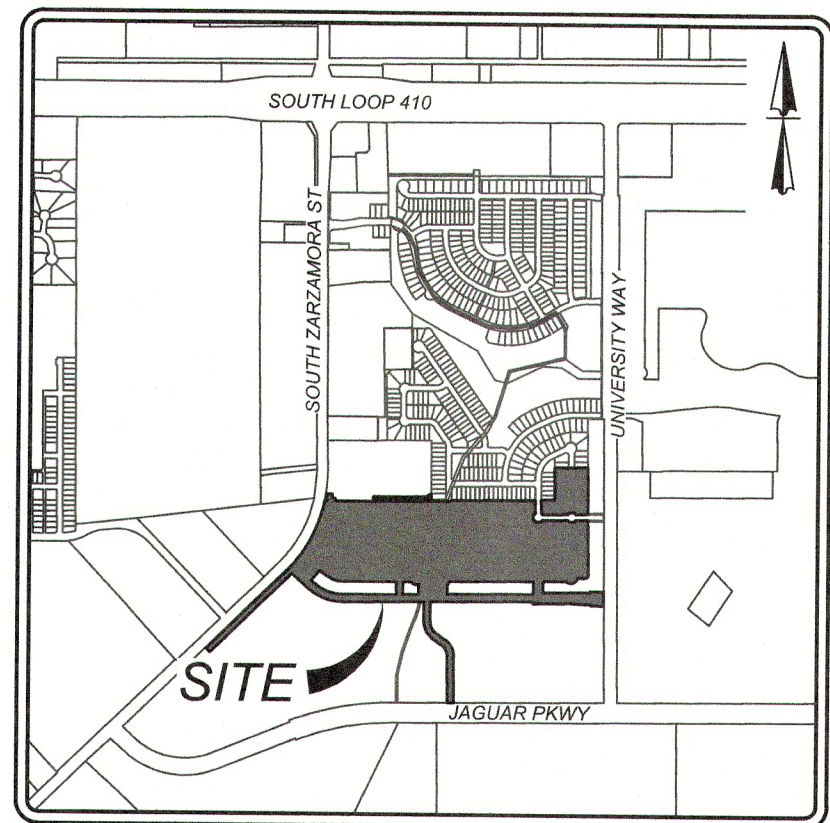
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## LEGEND

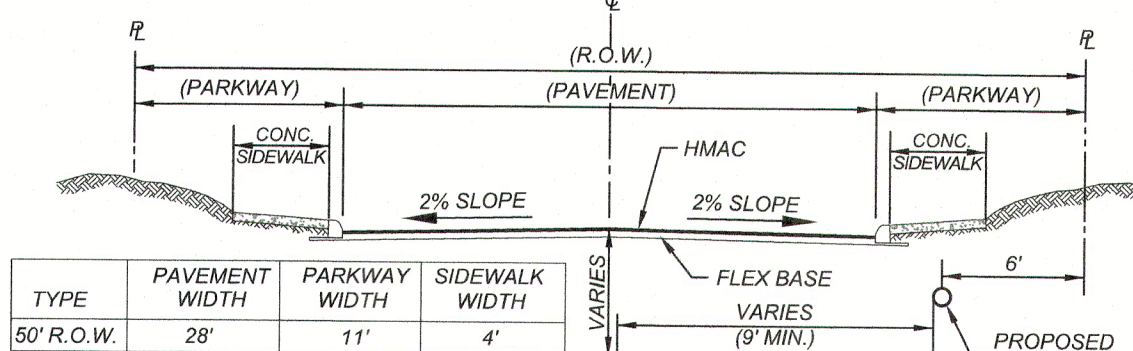
- PROPOSED WATER MAIN
- PROPOSED 3/4" WATER SERVICE WITH 5/8" METER & BOX
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## LOCATION MAP

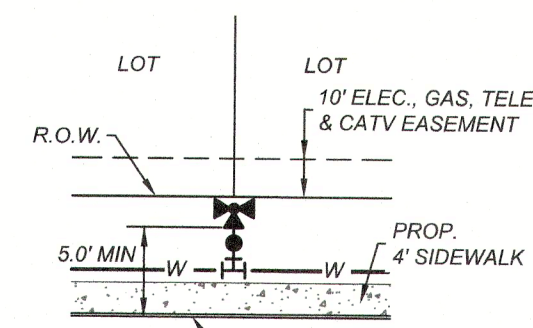
N.T.S.

SCALE: 1"=50'



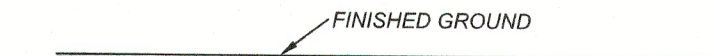
## TYPICAL STREET SECTION

N.T.S.



## TYPICAL FIRE HYDRANT DETAIL

N.T.S.



## TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

N.T.S.

WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER CROSSING.

\* SEPARATION DISTANCE TO COMPLY WITH '30 TAC 217.53(d) AND 290.44(e)

**CAUTION!!**  
THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

## SAWS PRESSURE ZONE 790

DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC  
DEVELOPER'S ADDRESS: 1118 VINTAGE WAY  
CITY: NEW BRAUNFELS STATE: TEXAS ZIP: 78132  
PHONE#: FAX#: TOTAL ACREAGE: 48.74 ACRES  
SAWS BLOCK MAP#: 148538 TOTAL EDUS: 220.5  
TOTAL LINEAR FOOTAGE OF PIPE: 8,760 LF - 8" C-900 PLAT NO.: 22-11800339  
NUMBER OF LOTS: 214 SAWS JOB#: 22-1169

VITA SAN ANTONIO PHASE 3

BEXAR COUNTY, TEXAS

WATER DISTRIBUTION PLAN (1 OF 4)

22-11800339

JOB NO. 391-10-09

DATE: MAY 2022

DRAWN: SC CHECKED: OE

SHEET NUMBER:

7.1







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#### SAWS STANDARD NOTE:

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1 - 8" x 6" ANCHOR TEE, M.J.  
1 - 6" GATE VALVE, M.J.  
1 - 6" VALVE BOX, COMPLETE  
1 - 6" ANCHOR BEND, M.J.  
1 - STANDARD FIRE HYDRANT  
6" DI PIPE, CUT AS REQUIRED  
SEE S.A.W.S. STD. DETAIL DD-834-01

CONTRACTOR TO THE NEW 8" PVC MAIN TO EXISTING 8" PVC PIPE AFTER CHLORINATION AND ACCEPTANCE BY S.A.W.S. (SAWS JOB # 21-1193)  
INSTALL FOR CHLORINATION INJECTION  
1 - 8" SOLID SLEEVE, MJ  
1 - 2" BLOWOFF (TEMP.) ASSEMBLY  
SEE SAWS STD. DETAIL DD-844-01  
2 - 1" CORPORATION STOP, C.C. x I.P.  
2 - 1" COPPER TUBING, CUT AS REQUIRED  
2 - 1 1/2" THD. SOLID CAPS, THR.  
2 - 1" COMP. x 1 1/2" COUPLING, CURB STOP  
CONTRACTOR SHALL PROVIDE A 2" JUMPER CONNECTION TO LOAD NEW MAIN

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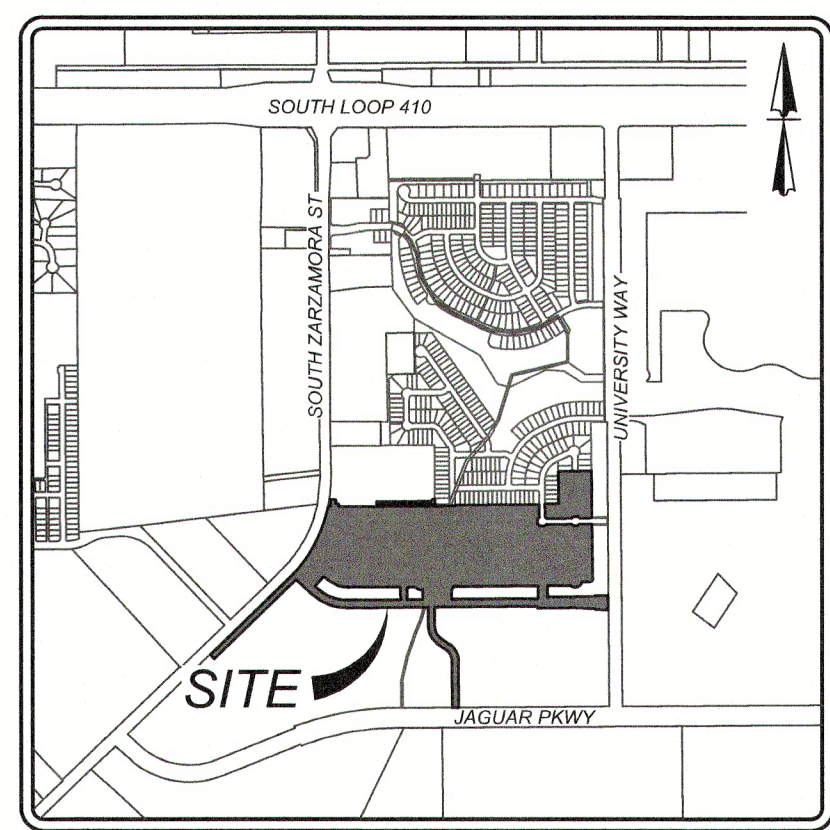
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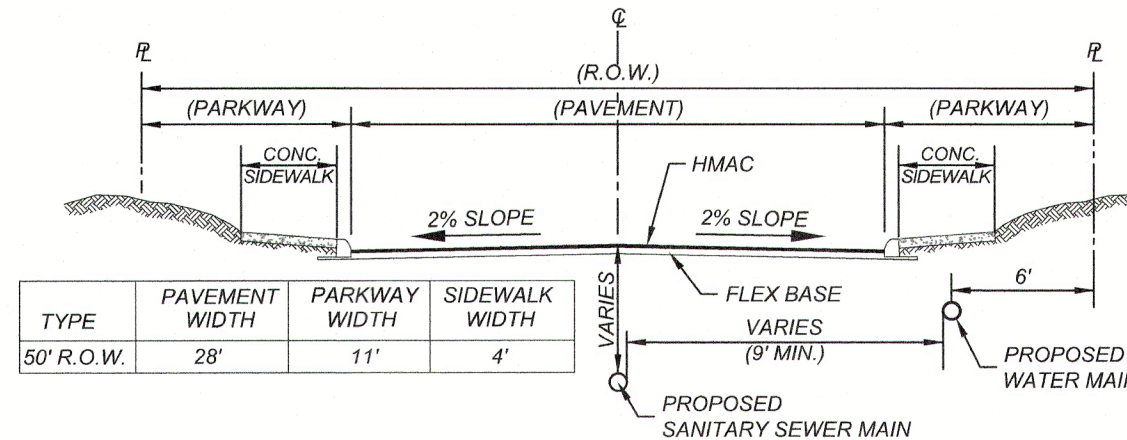
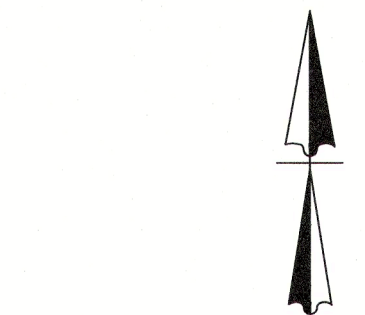
#### LEGEND

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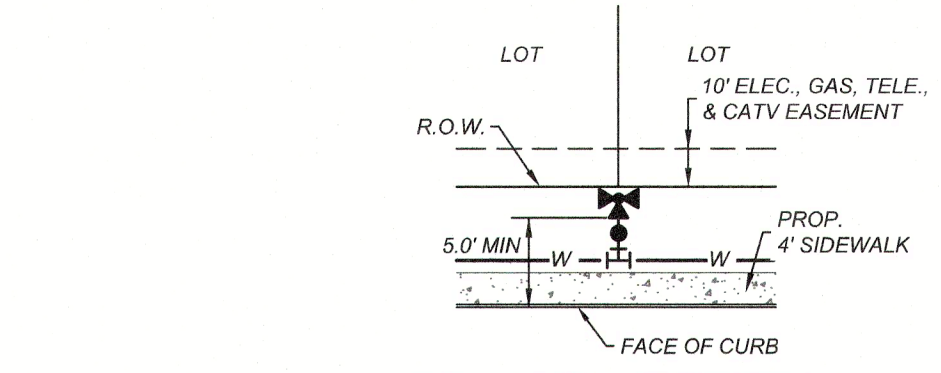
#### LOCATION MAP

N.T.S.



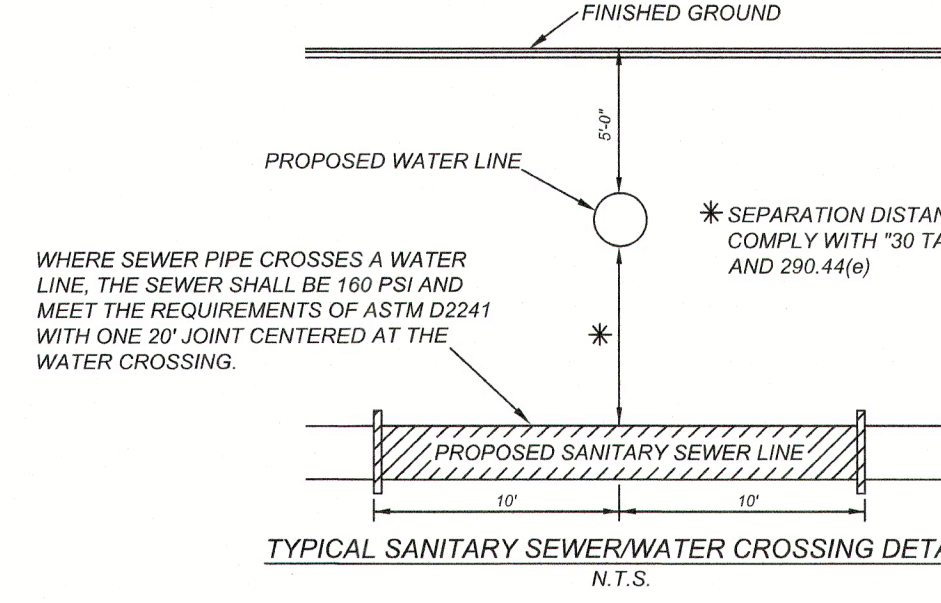
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VIDA SAN ANTONIO PHASE 3  
BEXAR COUNTY, TEXAS  
WATER DISTRIBUTION PLAN (3 OF 4)

22-11800339  
JOB NO. 391-10-09  
DATE: MAY 2022  
DRAWN: SC CHECKED: OE  
SHEET NUMBER:

7.3



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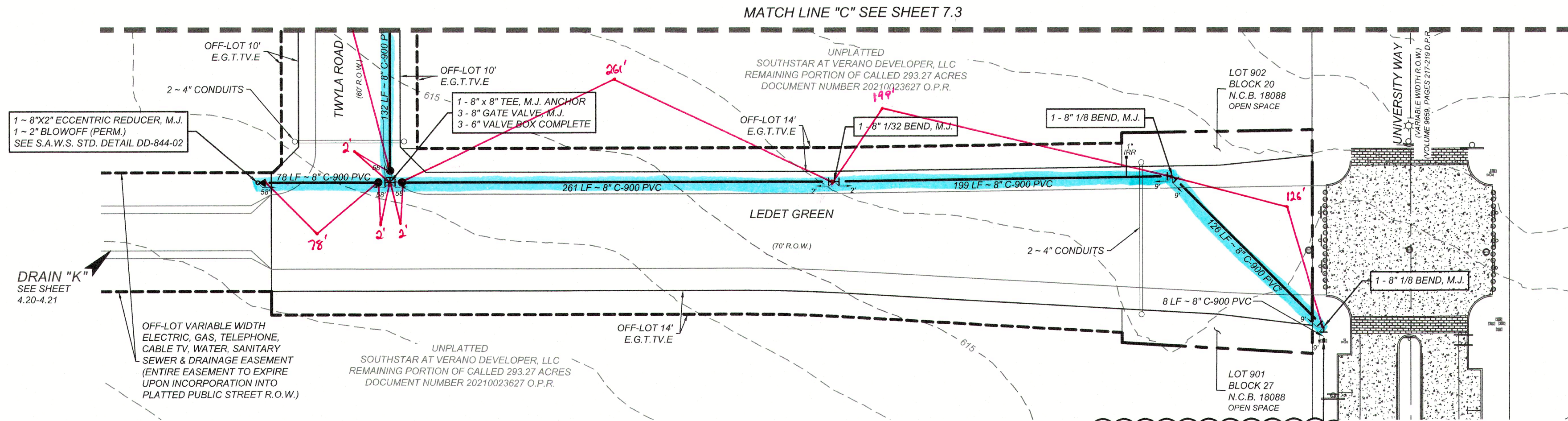
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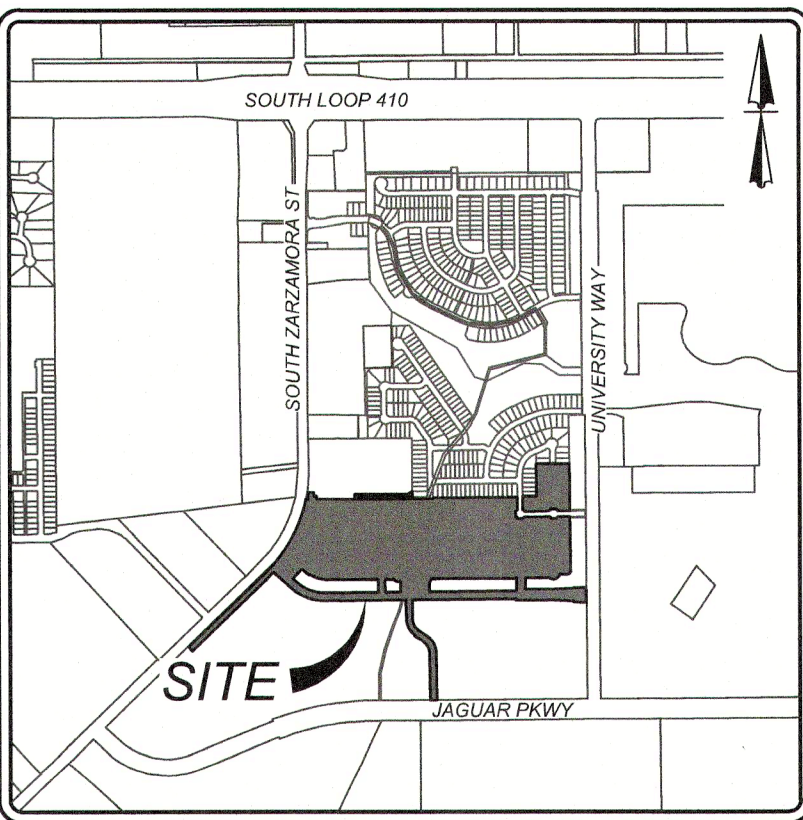
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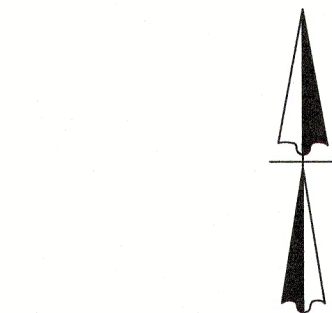
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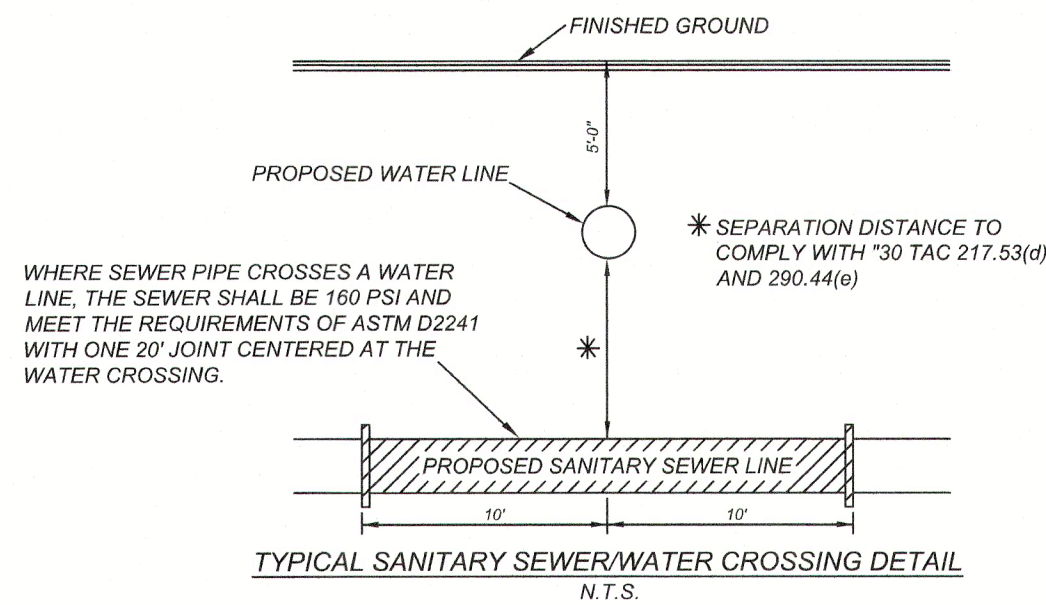
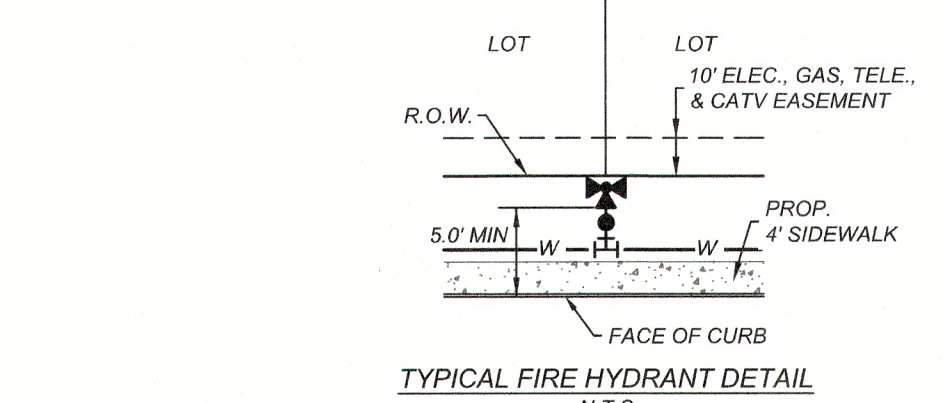
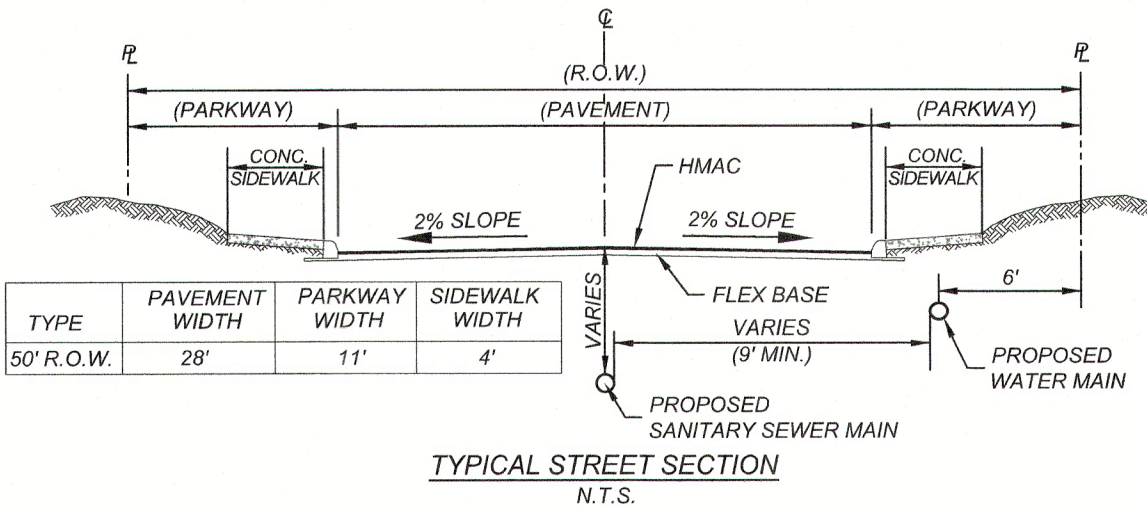
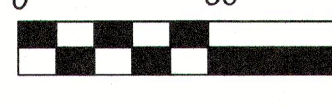


**LOCATION MAP**

N.T.S.



SCALE: 1"=50'



**CAUTION!!**

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

**SAWS PRESSURE ZONE 790**

DEVELOPER'S NAME: SOUTHSTAR AT VERANO, LLC  
DEVELOPER'S ADDRESS: 1118 VINTAGE WAY  
CITY: NEW BRAUNFELS STATE: TEXAS ZIP: 78132  
PHONE#: FAX#: TOTAL ACREAGE: 48.74 ACRES  
SAWS BLOCK MAP#: 148538 TOTAL EDU'S: 220.6  
TOTAL LINEAR FOOTAGE OF PIPE: 8,760 LF - 8" C-900 PLAT NO.: 22-11800339  
NUMBER OF LOTS: 214 SAWS JOB#: 22-11869

**VIDA SAN ANTONIO PHASE 3**  
**BEXAR COUNTY, TEXAS**  
**WATER DISTRIBUTION PLAN (4 OF 4)**

22-11800339  
JOB NO. 391-10-09  
DATE: MAY 2022  
DRAWN: SC CHECKED: OE  
**SHEET NUMBER:**

7.4