

Date: Oct 06, 2023, 2:25am User: ID: schavaz
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RESIDENTIAL LOTS = 150

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTORS 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 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 CONTRACTORS 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.

PRESSURE REDUCING VALVE (PRV) NOTE:
CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 1425 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 1425 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. WATER SERVICES WHERE PRVS ARE REQUIRED ARE DESIGNATED BY AN ASTERISK (*).

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

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 1,000 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 CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

SAWS STANDARD NOTE:
ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (SAWS) STANDARD SPECIFICATIONS.

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. IF THE RESTRAINT LIMITS DO NOT FALL ON A JOINT, RESTRAINT SHALL BE MOVED TO NEXT FURTHER JOINT. 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 HARNESS AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED. PIPES TO BE RESTRAINED THROUGH ENTIRE LENGTH ARE DESIGNATED BY AN ASTERISK (*).

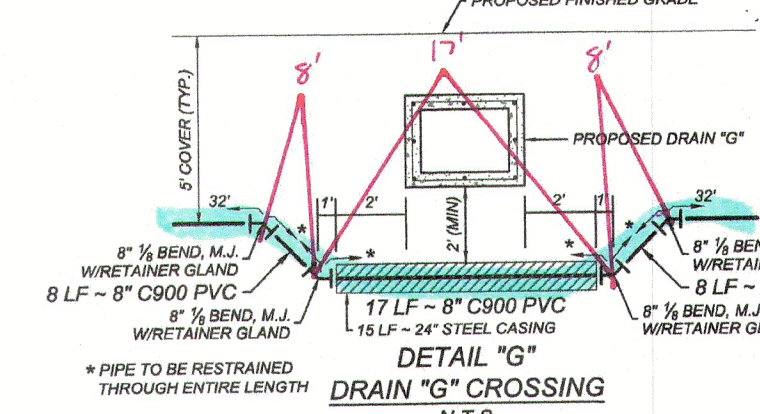
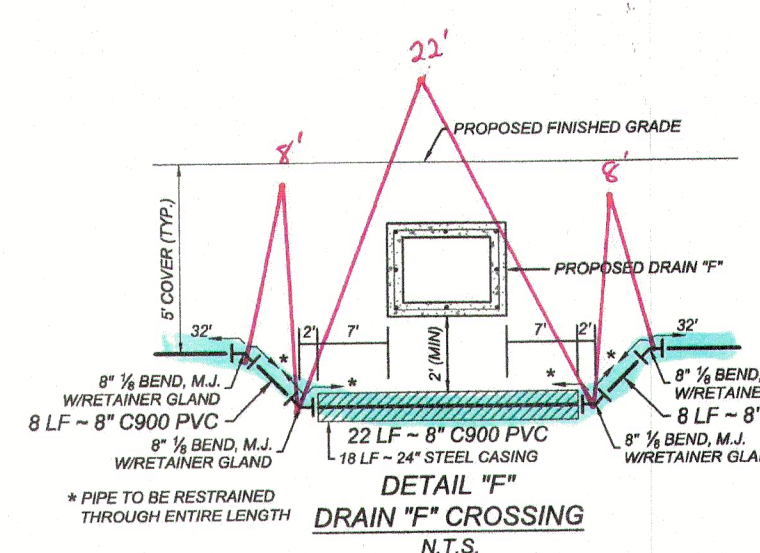
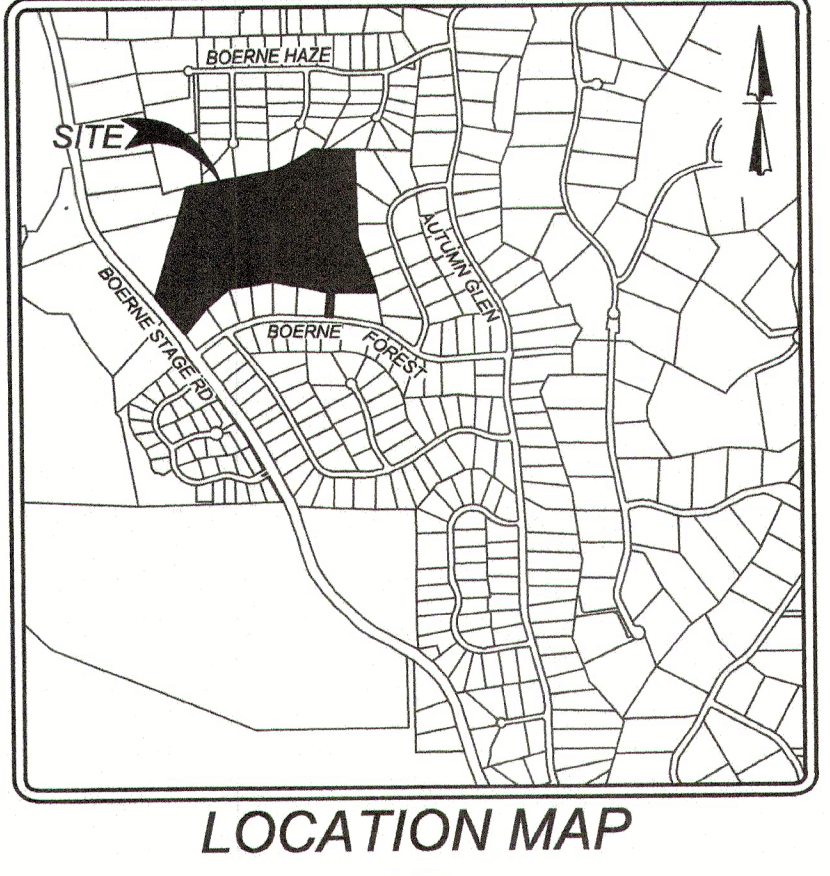
SAWS NOTE:
SAWS REQUIRES GCPs AND COUNTER PERMIT TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.*

WATER PLAN NOTES:
1. ALL VALVES SHALL READ "OPEN RIGHT"
2. ALL PVC PIPE TO BE C-900 CLASS 235 (DR 18)
3. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (SAWS) STANDARD SPECIFICATIONS.

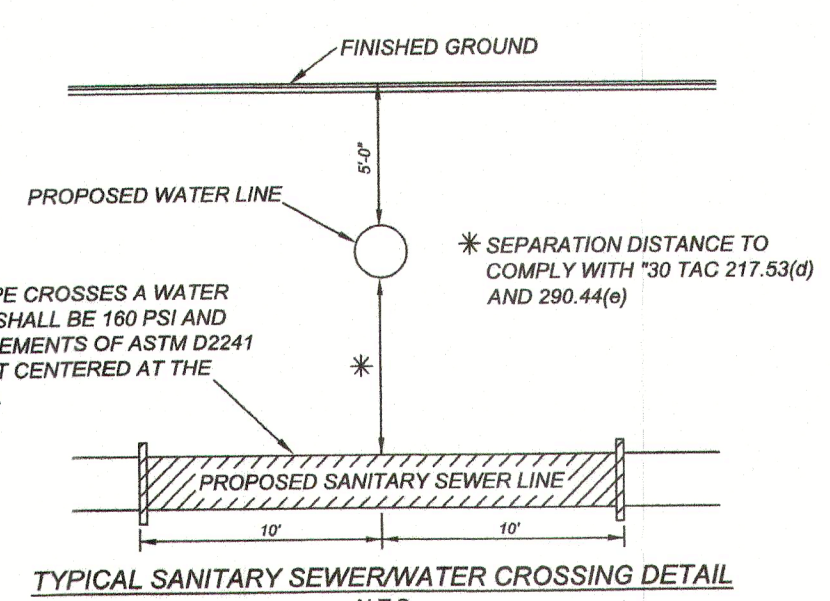
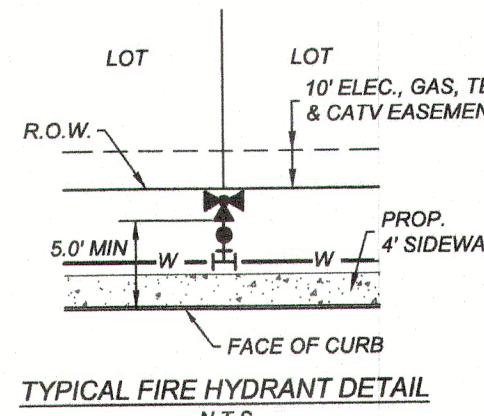


LEGEND

- PROPOSED WATER MAIN
- PROPOSED WATER SERVICE & METER BOX
- PROPOSED WATER 3/4" IRRIGATION SERVICE & METER BOX
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MANHOLE
- ELECTRIC, GAS, TELEPHONE, & CABLE TV EASEMENT
- VEHICULAR NON-ACCESS EASEMENT
- CLEAR VISION EASEMENT
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING OVERHEAD ELECTRIC W/POWER POLE
- EXISTING GUY WIRE/OVERHEAD ELECTRIC



TYPE	PAVEMENT WIDTH	PARKWAY WIDTH	SIDEWALK WIDTH	FLEX BASE VARIES (8" MIN.)	PROPOSED WATER MAIN
50' R.O.W.	28'	11'	4'		
60' R.O.W.	40'	10'	6'		



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 ELECTRIC, DUSTBROWS, 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 1610
SERVICE AREA: FAR WEST

DEVELOPER'S NAME: FELDER CND BOERNE STAGE, LLC		
DEVELOPER'S ADDRESS: 6414 RIVER PLACE BLVD, SUITE 100		
CITY: AUSTIN	STATE: TEXAS	ZIP: 78730
PHONE: (512) 418-5400	FAX:	TOTAL ACREAGE: 43.83 ACRES
SAWS BLOCK MAP#: 098680	TOTAL EDU'S: 156	
TOTAL LINEAR FOOTAGE OF PIPE: 6,108 LF - 8" C900 & 173 LF - 2" C900		
NUMBER OF LOTS: 150	SAWS JOB#: 23-1056	

K&W
ENGINEERS & SURVEYING
3421 Pasadena Pkwy, Suite 200, San Antonio, TX 78231
Phone #: (210) 979-9444 • Fax #: (210) 979-9441
TPEP Firm #: 8513 • TPEP Firm #: 102230

ISSUE DATE: 10/02/23
REVISIONS:
1. REVISED WATER MAIN ALIGNMENT & LOT LAYOUT
2. REVISED FIRE HYDRANT LOCATIONS
3. REVISED PIPE SIZES
4. REVISED PIPE MATERIALS

STATE OF TEXAS
COMAR A. ESPINOSA
125560
LICENSED PROFESSIONAL ENGINEER
10/1/13

WINDSONG SUBDIVISION
BEXAR COUNTY, TEXAS
WATER DISTRIBUTION PLAN (2 OF 4)

PLAT NO. 22-11800748
JOB NO. 490-07-03
DATE: FEBRUARY 2023
DRAWN BY: CHECKED BY: SHEET NUMBER:

7.2

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.

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Date: 10/20/2023 10:00:00 AM

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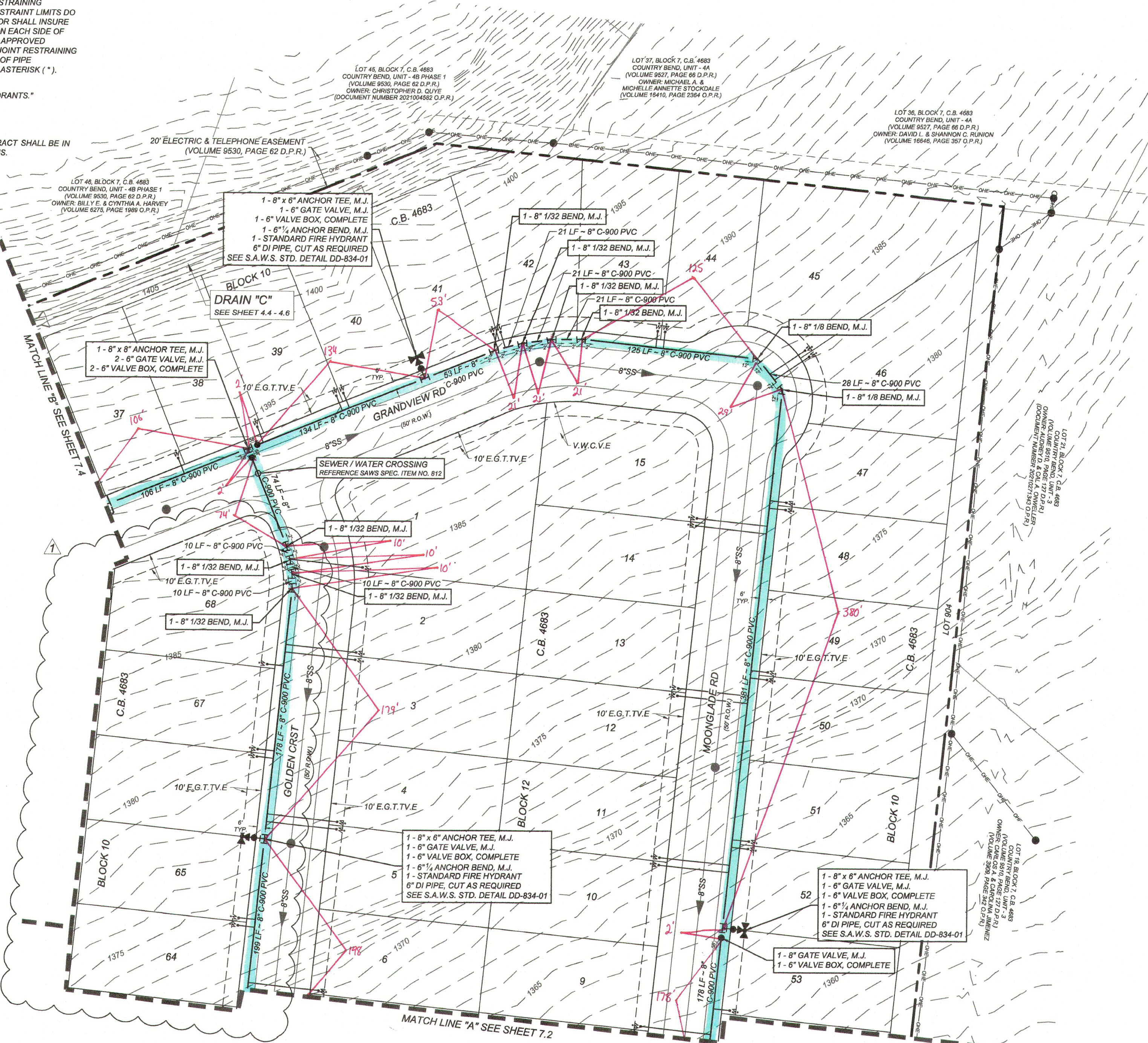
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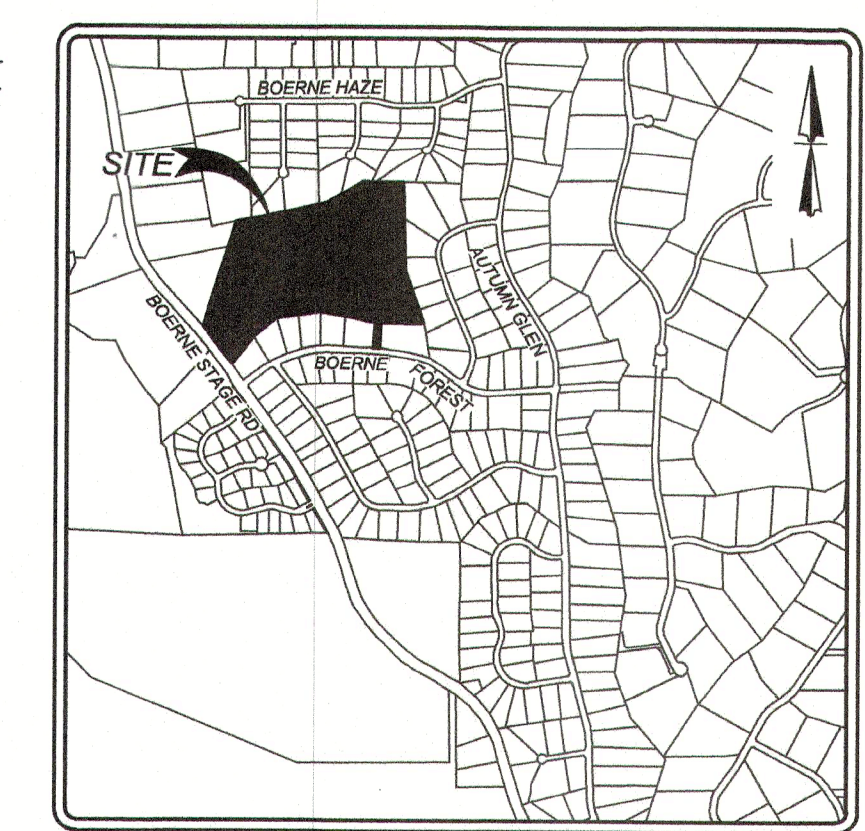
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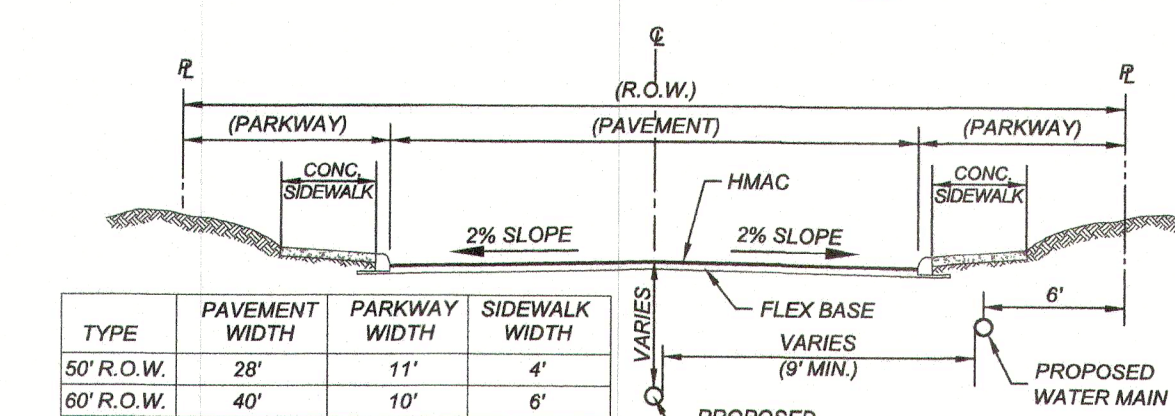
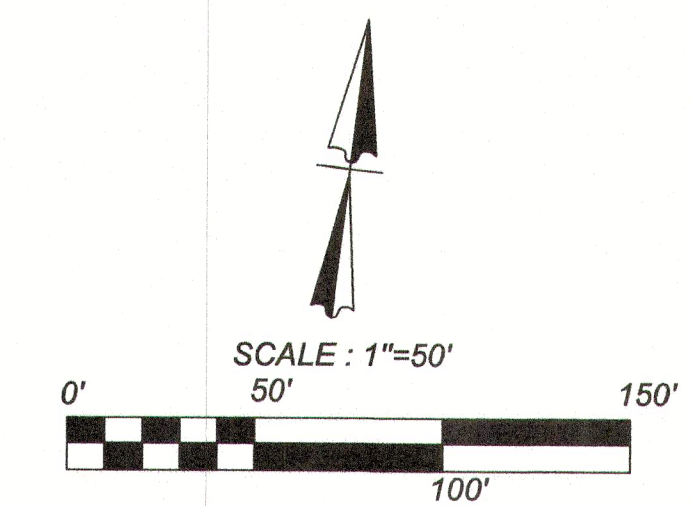
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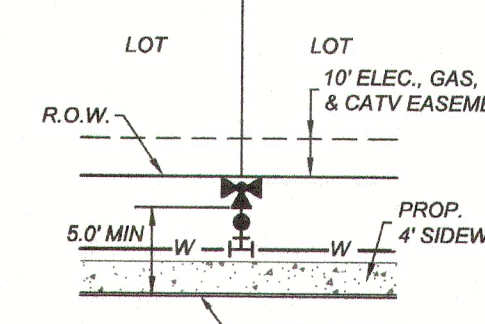
LOCATION MAP

N.T.S.



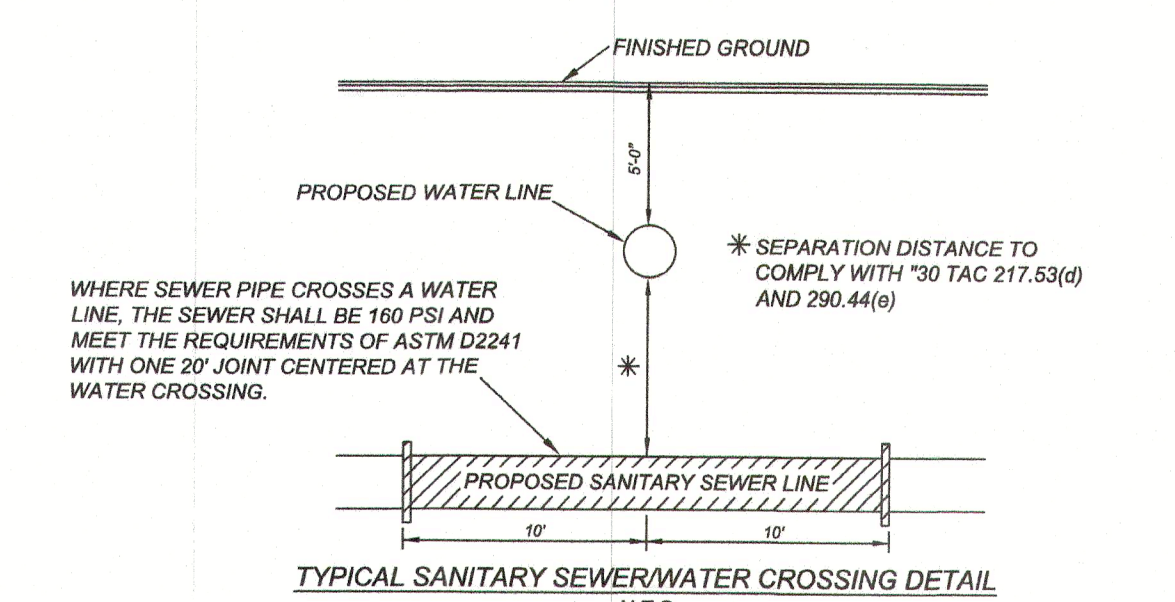
TYPICAL STREET SECTION

N.T.S.



TYPICAL FIRE HYDRANT DETAIL

N.T.S.



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

N.T.S.

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TOTAL LINEAR FOOTAGE OF PIPE: 621 LF - 2" HDPE, 6,108 LF - 8" C900 & 173 LF - 12" C900	PLAT NO.: 22-11800748
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WINDSONG SUBDIVISION
BEXAR COUNTY, TEXAS
WATER DISTRIBUTION PLAN (3 OF 4)

PLAT NO. 22-11800748
JOB NO. 490-07-03
DATE: FEBRUARY 2023
DRAWN: EB CHECKED: OE
SHEET NUMBER:

7.3

