

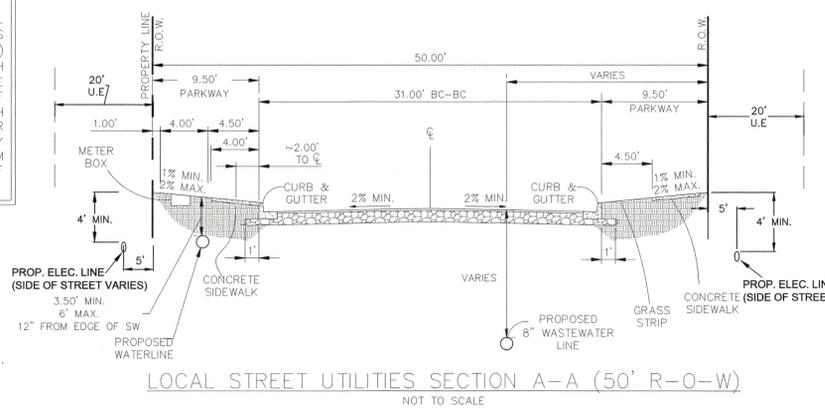
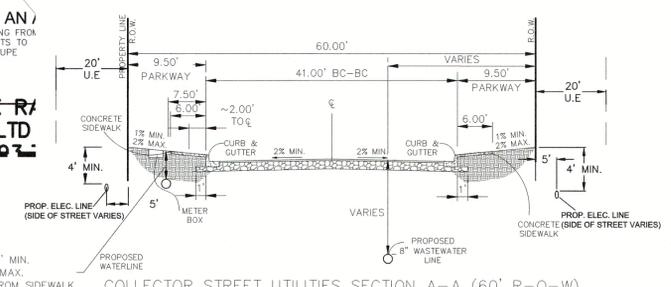
- CONSTRUCTION NOTES:**
- NO VALVES, HYDRANTS, CLEAN-OUTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS, OR DRIVEWAYS.
 - THE CITY ENGINEER IS RESPONSIBLE FOR THE COMPACTION OF ALL UTILITY TRENCHES WITHIN THE RIGHT-OF-WAY.
 - THIS PROJECT INCLUDES UTILITY INSTALLATION GREATER THAN 5 FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE. A UTILITY COMPACTION PLAN WILL BE REQUIRED AND MUST BE SUBMITTED FOR APPROVAL TO CITY PRIOR TO UTILITY INSTALLATION.

WATER STRUCTURE TOTALS

PIPE SIZE	PIPE LENGTH	11.25' BENDS	22.5' BENDS	45' BENDS	DOMESTIC METER SIZE	DOMESTIC METERS	FIRE HYDRANTS	FIRE LINES	LUEs
12"	847'	6	2	2	5/8"	11	1	1	
8"	3737'	1	0	6	5/8"	104	5	5	114

UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT/SIDEWALK SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEOTECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. DETERMINE THE MAXIMUM LIFT THICKNESS BASED ON THE ABILITY OF THE COMPACTION OPERATION AND EQUIPMENT USED TO MEET THE REQUIRED DENSITY. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRAUNFELS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 200 LF FOR EACH LIFT AND EVERY OTHER SERVICE LINE. UPON COMPLETION OF TESTING THE GEOTECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRAUNFELS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. ADDITIONAL DENSITY TESTS MAY BE REQUESTED BY THE CITY OF NEW BRAUNFELS INSPECTOR.



REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

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 - CONTRACTOR TO CHISEL IN CURB Y'S FOR VALVES AND Y'S FOR METERS.
 - CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER MAIN A MINIMUM OF 300 LF AHEAD OF NEW MAIN INSTALLATION AT ALL TIE-IN LOCATIONS OR CROSSINGS, AND NOTIFY GVSUD INSPECTOR.
 - CONTRACTOR MUST PROTECT ALL UNATTENDED TRENCHES AND EXCAVATIONS WITH TEMPORARY FENCING OR OTHER APPROVED MEANS.
 - DISINFECTION SHALL BE BY MACHINE CHLORINATION.
 - MOISTURE DENSITY COMPACTION TESTING SHALL BE REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL.
 - ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY THE CONTRACTOR.
 - ALL DUCTILE IRON PIPE TO BE AMERICAN, ZINC COATED, AWWA/ANSI C-151
 - CONTRACTOR TO UTILIZE APPROVED WATER LINE STOPS AND/OR MUELLER INSERTION-VALVES TO MINIMIZE WATER DAMAGES AS REQUIRED BY GVSUD DURING CONSTRUCTION.

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 ANTICIPATED 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 EXCAVATIONS.

- RESTRAINED LENGTH NOTES:**
- CONTRACTOR TO COORDINATE WITH GREEN VALLEY SPECIAL UTILITY DISTRICT (G.V.S.U.D)
 - ALL IN-LINE VALVES, BENDS & PLUGS SHALL BE RESTRAINED, RESTRAINT TO BE PROVIDED ON EACH SIDE OF THE VALVE, FITTING OR ANY REQUIRED JOINT, PER GVSUD DETAILS W18 THROUGH W21.
 - RL=RESTRAINT LENGTH
 - CONTRACTOR SHALL DETERMINE RESTRAINT LENGTH REQUIRED FOR HORIZONTAL VERTICAL FITTINGS BASED ON RESTRAINT LENGTH TABLE SHOWN BELOW, PER GVSUD DETAILS W18 THROUGH W21.

Drawing Name: K:\Projects\031 - Winding Creek Ranch Unit 1\031.DWG User: mssd Feb 10, 2025 - 10:58am
 Daniel Chandler Survey No. 49
 J.O. Blair Survey Abstract No. 60
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290 S. CASTELL AVE., STE. 100
 NEW BRAUNFELS, TX 78130
 TBPE FIRM F-70961
 TBPLS FIRM 1053600

HMT
 ENGINEERING & SURVEYING

STATE OF TEXAS
 CHRISTOPHER P. VAN HEERDEN
 93047
 LICENSED PROFESSIONAL ENGINEER

06/19/2023

OVERALL WATER (1 OF 2)
WINDING CREEK RANCH UNIT 3
NEW BRAUNFELS, TEXAS

NO.	REVISION DESCRIPTION	DATE
1	WATER STATIONING UPDATED PRIOR TO STAKING	01/27/2025
2		02/05/2025

DATE: APRIL 2023
 DRAWN BY: JAD
 DESIGNED BY: CAT
 REVIEWED BY: CVH

HMT PROJECT NO.: 031.097

SHEET
C7.00

UTILITY NOTES:

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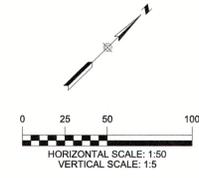
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RESTRAINED LENGTH NOTES:

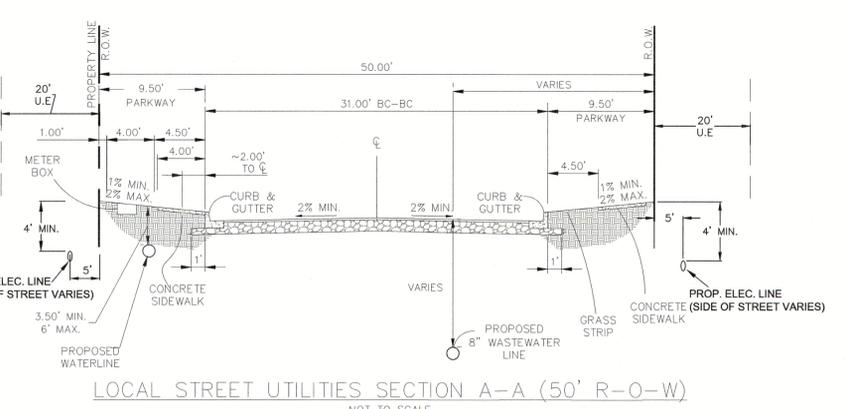
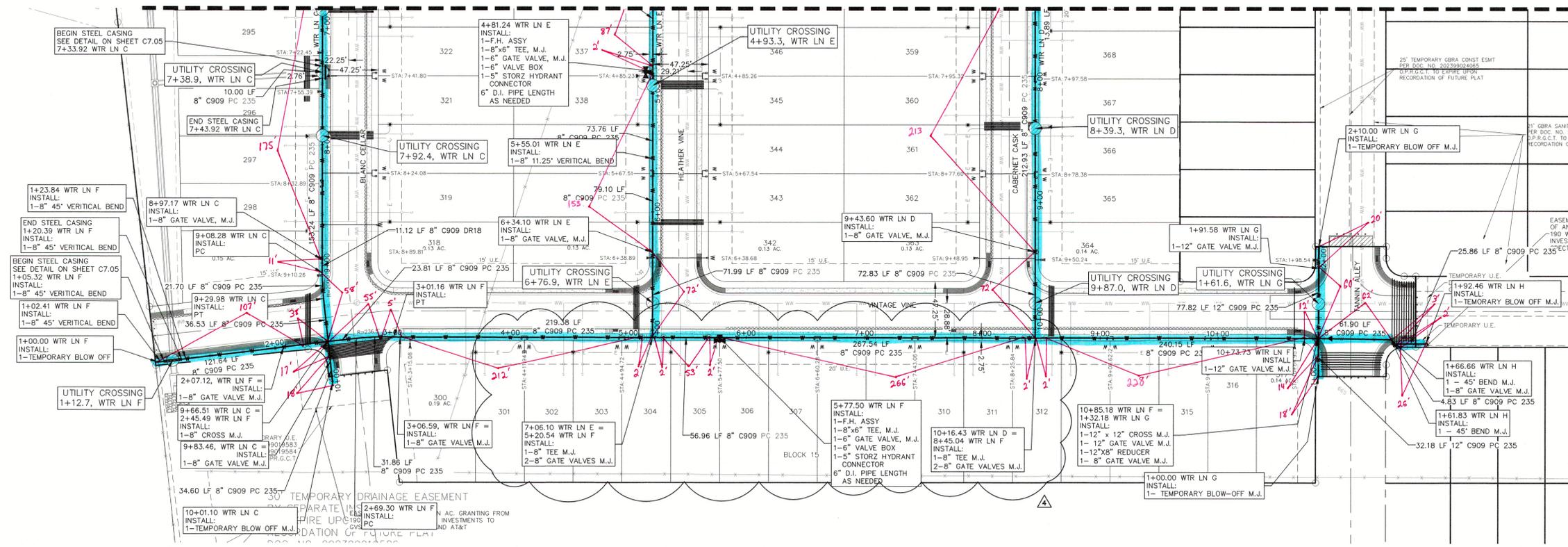
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LEGEND

- B.L. BUILDING SETBACK LINE
- U.E. UTILITY EASEMENT
- D.E. DRAINAGE EASEMENT
- W-W EXISTING WATER LINE
- W-W PROPOSED WATER LINE
- W-W PROPOSED WATER SERVICE
- Utility Crossing

MATCHLINE SEE SHEET C7.00



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290 S. CASTELL AVE., STE. 100
 NEW BRAUNFELS, TX 78130
 TBPE FIRM F-10961
 TBPLS FIRM 1053600

06/19/2023

OVERALL WATER (2 OF 2)
 WINDING CREEK RANCH UNIT 3
 NEW BRAUNFELS, TEXAS

NO.	REVISION DESCRIPTION	DATE
1	WATER STATIONING UPDATED PRIOR TO STAKING	01/27/2025

DATE: APRIL 2023
 DRAWN BY: JAD
 DESIGNED BY: CAT
 REVIEWED BY: CMH
 HMT PROJECT NO.: 031.097
SHEET C7.01

Drawing Name: N:\Projects\031 - Winding Creek Ranch Unit 3\CAD\031.097_WTR.dwg User: rnasd Feb 07, 2025 - 10:26am