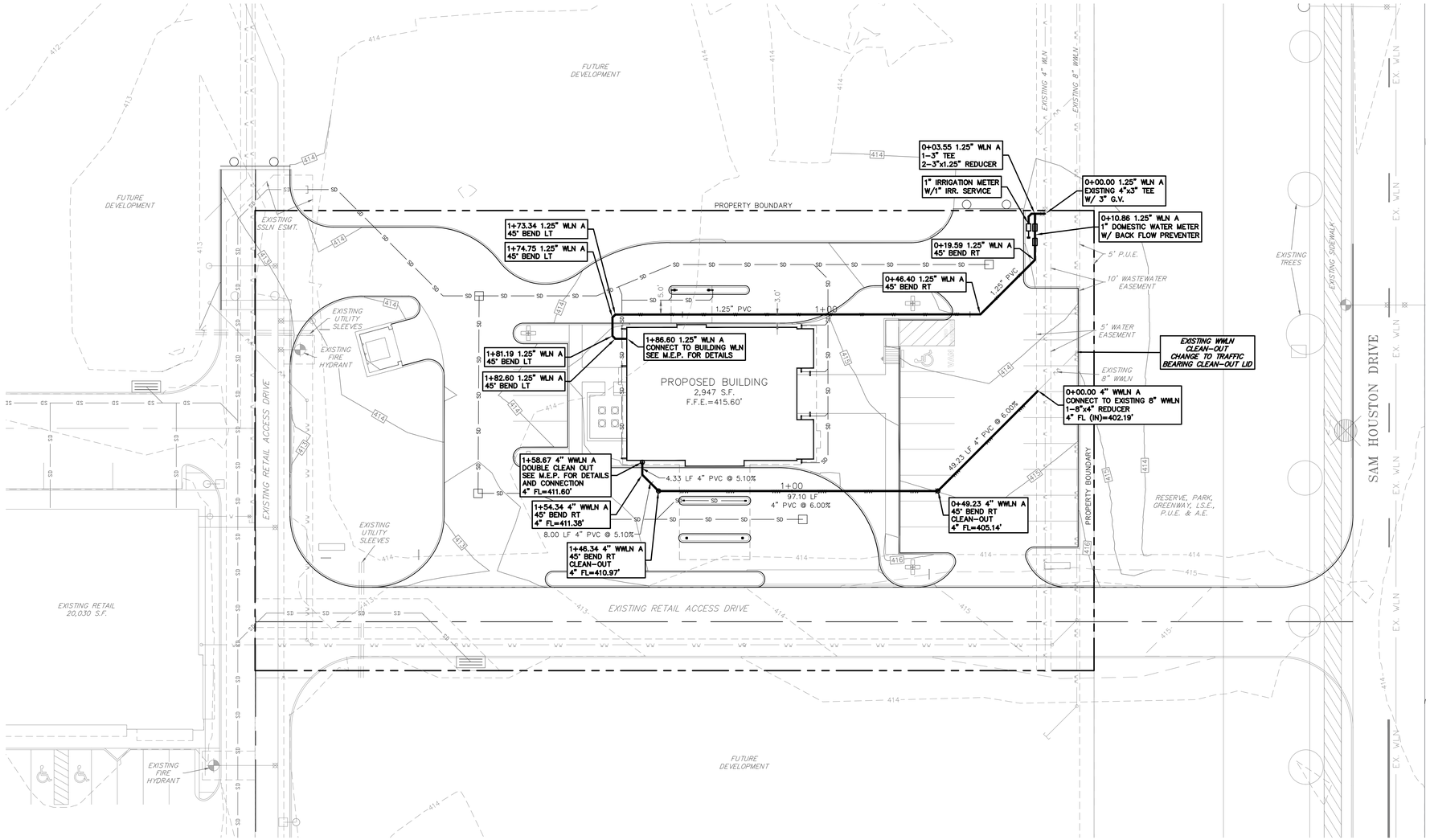



## LEGEND

- W — WATER LINE
- WW — WASTEWATER LINE
- SD — STORM SEWER LINE
- EASEMENTS
- 495 — EXISTING MAJOR CONTOUR
- 494 — EXISTING MINOR CONTOUR
- 495 — PROPOSED MAJOR CONTOUR
- 494 — PROPOSED MINOR CONTOUR

0 20' 40'

SCALE: 1" = 20'

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24 HOURS PRIOR TO COMMENCING CONSTRUCTION.

NOTES:

1. ALL STREETS ARE TO BUILT TO SUBGRADE PRIOR TO UTILITY INSTALLATION.
2. ALL WASTEWATER PIPE SHALL BE SDR-26 PVC WW PIPE UNLESS NOTED OTHERWISE.
3. MANDREL TESTING WILL BE REQUIRED ON ALL FLEXIBLE WASTEWATER PIPE AS PER TEXAS COMISSION ON ENVIRONMENTAL QUALITY RULES.

WATER NOTES:

1. WATER PIPE 4" & LARGER SHALL BE C900-DR14 PVC, WATER PIPE 3" & SMALLER SHALL BE SCHEDULE 40 W/ MIN. 150 PSI PRESSURE RATING.
2. ALL DOMESTIC WATER PIPE SHALL BE PVCI WITH CASKETED FITTINGS OR BETTER. GLUED JOINTS ARE NOT ALLOWED. PIPE SHALL BE STAMPED WITH NSF OR AWWA
3. ALL WATER/WASTEWATER CROSSINGS MUST BE SEPARATED BY 2.0' MIN. AND CONFORM TO TCEQ CHAPTER 290 REGULATIONS.
4. ALL PVC WATERLINE P.I.'S BOTH HORIZONTAL AND VERTICAL, SHALL NOT EXCEED 1° ALLOWABLE JOINT DEFLECTION. ALL DUCTILE IRON WATERLINE P.I.'S BOTH HORIZONTAL AND VERTICAL, SHALL NOT EXCEED 80% OF MANUFACTURERS MAXIMUM RECOMMEND JOINT DEFLECTION.
5. ALL FILL AREAS ARE TO BE COMPACTED TO 95% PROCTOR DENSITY, PRIOR TO UTILITY INSTALLATION.
6. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL VERTICAL BENDS REQUIRED SO AS NOT TO BE IN CONFLICT WITH OTHER UTILITIES.
7. ALL PIPES TO HAVE THRUST BLOCKING PROVIDED, AS REQUIRED. (VIA MECHANICAL RESTRAINTS FOR PUBLIC INFRASTRUCTURE)
8. PIPE RADIUS BENDS LESS THAN 200' REQUIRE 13' PIPE JOINTS.
9. CONTRACTOR TO VERIFY LOCATIONS OF IRRIGATION SLEEVES WITH THE IRRIGATION INSTALLER.
10. UNDERGROUND MAINS FEEDING PRIVATE FIRE HYDRANTS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 24 AND THE FIRE CODE BY A STATE LICENSED CONTRACTOR WITH A PLUMBING PERMIT FOR THE PROPOSED WORK. THE ENTIRE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME, UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.

WASTEWATER NOTES:

1. ALL WASTEWATER PIPE SHALL BE SDR26 PVC UNLESS NOTED OTHERWISE. ALL SERVICES TO BE AS SHOWN ON THE PLAN.
2. VERIFY LOCATION OF EXISTING UTILITIES TO BE EXTENDED PRIOR TO INSTALLATION OF ANY LINE WORK.
3. SEE WATER & WASTEWATER DETAILS FOR SERVICE DETAILS.
4. PRIVATE CONSTRUCTION OF WASTEWATER LINES SHALL CONFORM TO THE 2018 UPC SECTION 719.0.
5. CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100-FT IN STRAIGHT RUNS, PER 2018 UPC SECT. 719.1.
6. SIZING OF PRIVATE WASTEWATER LINES SHALL COMPLY WITH 2018 UPC SECT.717.0 TABLE 717.1.
7. ALL CLEANOUTS IN DRIVE AREA TO HAVE TRAFFIC BEARING LIDS.

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# National Bank & Trust

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Project Number : 5816

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**REVISIONS**

| MARK | DESCRIPTION | DATE |
|---|---|---|
| E | ADDENDUM E | 10-26-26 |
| | ISSUED FOR CONSTRUCTION | 11-02-26 |

PRINT DATE: October 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
11/02/26 Eg# F3791

DRAWING TITLE
**UTILITIES PLAN**

| | | | |
|---|---|---|---|
| DRAWN BY | CP | SHEET NO. | C-8 |
| CHECKED BY | JAE | | |
| APPROVED BY | JAE | | |

SUB-ENGINEERING.CTB

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