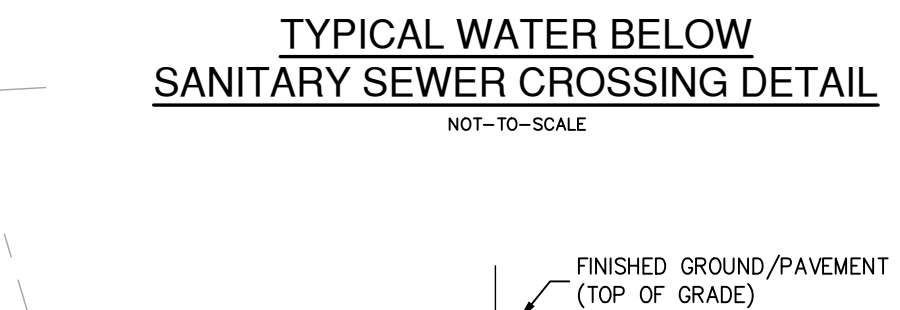
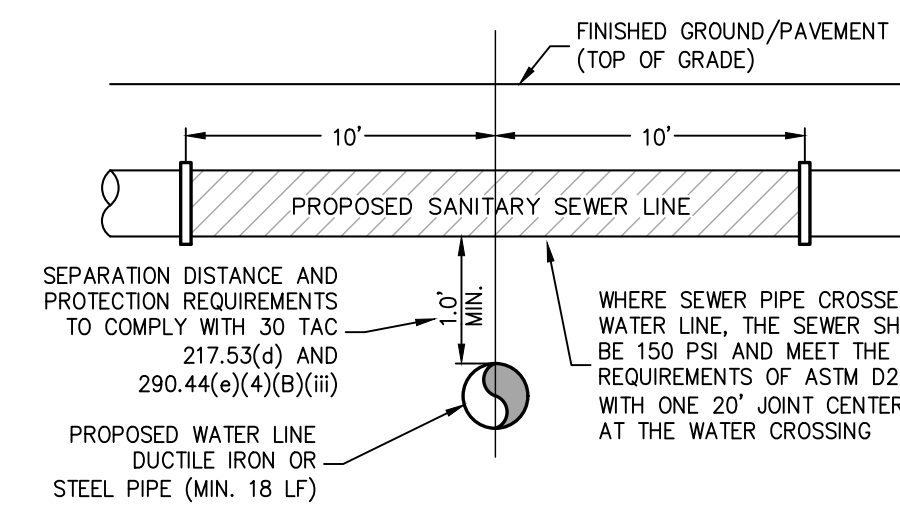


CENTERLINE CURVE DATA									
CURVE	RADIUS	DELTA	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC	PT	ALIGNMENT
C1	254.50'	49.23'	116.61'	218.69'	N66°46'12.65"W	212.02'	1+10.17	3+28.86	W-5
C2	170.50'	40.66'	63.17'	120.99'	N21°49'27.99"W	118.47'	9+01.86	10+22.84	W-4
C3	494.50'	41.39'	186.83'	357.26'	N21°27'22.64"W	349.54'	4+60.84	8+18.09	W-4
C4	804.50'	42.69'	314.41'	599.46'	N22°37'44.29"W	585.69'	10+35.94	16+35.40	W-3

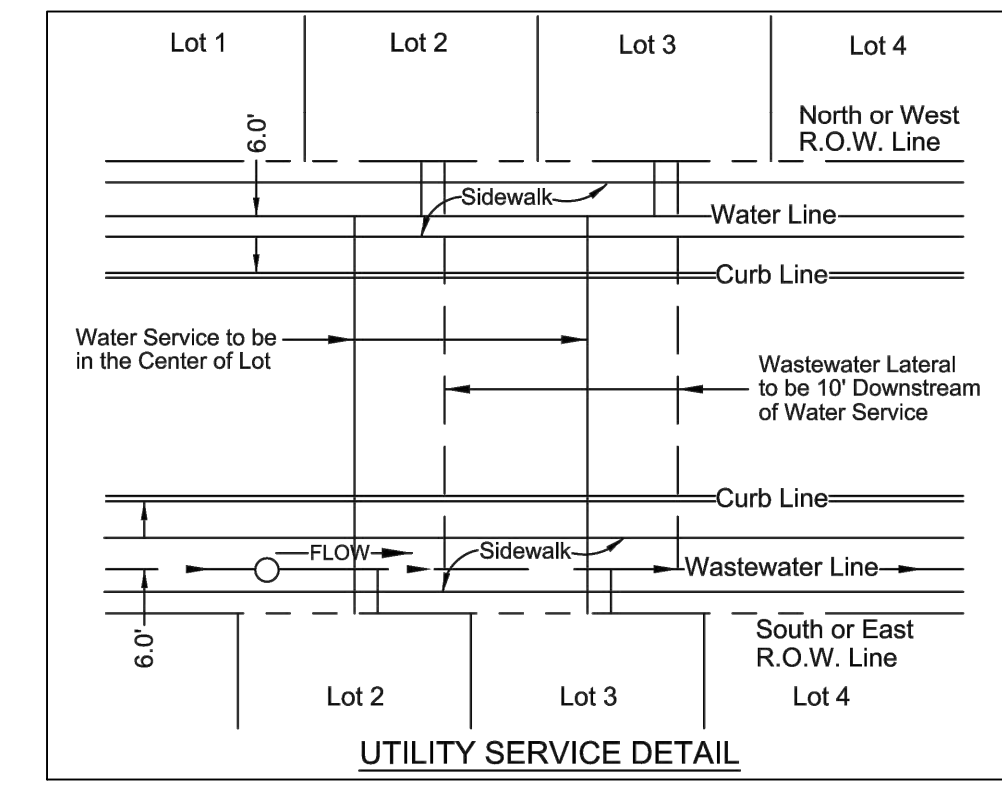
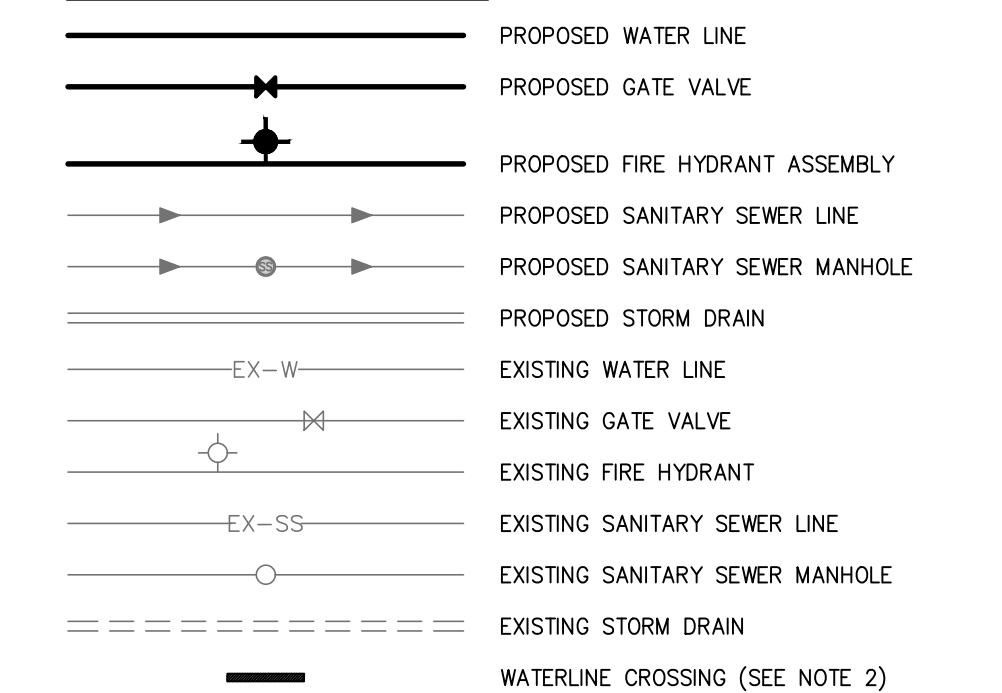


BENCHMARKS

BM NO. 1
4'-0" SET IN CONCRETE LOCATED IN THE CENTER OF A CURB INLET IN THE WEST CURB LINE OF NORTH JOHN KING BOULEVARD AND BEING +/- 662' NORTH 235' SOUTHWEST OF THE NORTHWEST CORNER OF THE SUBJECT TRACT AND +/- 535' NORTHWEST OF THE INTERSECTION OF N. JOHN KING BOULEVARD AND EAST QUAIL RUN ROAD. ELEV. 546.16'

BM NO. 2
4'-0" SET IN CONCRETE LOCATED IN THE CENTER OF A CURB INLET IN THE WEST CURB LINE OF NORTH JOHN KING BOULEVARD AND BEING +/- 662' NORTH 235' SOUTHWEST OF THE NORTHWEST CORNER OF THE SUBJECT TRACT AND +/- 723' SOUTHWEST OF THE INTERSECTION OF N. JOHN KING BOULEVARD AND EAST QUAIL RUN ROAD. ELEV. 530.38'

WATER LEGEND



NOTES

- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND THE STANDARD PIPE SEGMENT LENGTH OF THE WASTEWATER MAIN OR LATERAL IS AT LEAST 18 FEET, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST TWO FEET ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. THE WASTEWATER PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END. WHERE CEMENT STABILIZED SAND BEDDING IS REQUIRED, THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES ABOVE AND FOUR INCHES BELOW THE WASTEWATER MAIN OR LATERAL.
- WHERE A NEW PVC WASTEWATER MAIN OR LATERAL (WITH A MINIMUM PRESSURE RATING OF 150 PSI) CROSSES UNDER AN EXISTING WATER LINE, AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. ONE SEGMENT OF THE SEWER PIPE SHALL BE CENTERED ON THE WATER LINE SUCH THAT THE JOINTS OF THE SEWER PIPE ARE EQUIDISTANT AND AT LEAST 9 FEET HORIZONTALLY FROM THE CENTERLINE OF THE WATER LINE. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WATERLINE PIPE. THE SANITARY SEWER MAIN SHALL BE EMBEDDED IN FLOWABLE FILL FROM ONE-QUARTER OF THE DIAMETER OF THE SANITARY SEWER MAIN BELOW THE CENTERLINE OF THE PIPE UP TO 12 INCHES ABOVE THE TOP OF PIPE FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT MINIMUM 9 FEET IN EACH DIRECTION FROM WATER LINE, PLUS 12 INCHES BEYOND THE JOINT ON EACH END.
- FIRE HYDRANT ASSEMBLY TO INCLUDE 1-8"x6" TEE, 1-6" 90° HORIZONTAL BEND, 1-6" VALVE, AND 1-FIRE HYDRANT.

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITIES INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

RESPONSIBILITY NOTE

ALL RESPONSIBILITY FOR THE ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF DESIGN.

TCEQ NOTES

- WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN OR LATERAL, THE WATERLINE SHALL BE ENCASED AS DESCRIBED FOR WASTEWATER MAINS OR LATERALS IN CLAUSE (i) OF THIS SUBPARAGRAPH OR CONSTRUCTED OF A MINIMUM OF 18 LF OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE, CENTERED AT THE WASTEWATER CROSSING. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN OR LATERAL SHALL BE PROVIDED. WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN, THE PROCEDURES IN §217.53(d) OF THIS TITLE (RELATING TO PIPE DESIGN) MUST BE FOLLOWED.
- WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND THE STANDARD PIPE SEGMENT LENGTH OF THE WASTEWATER MAIN OR LATERAL IS AT LEAST 18 FEET, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST NINE FEET HORIZONTALLY FROM THE CENTERLINE OF THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST TWO FEET ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. THE WASTEWATER PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END. WHERE CEMENT STABILIZED SAND BEDDING IS REQUIRED, THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES ABOVE AND FOUR INCHES BELOW THE WASTEWATER MAIN OR LATERAL.
- WHERE A NEW PVC WASTEWATER MAIN OR LATERAL (WITH A MINIMUM PRESSURE RATING OF 150 PSI) CROSSES UNDER AN EXISTING WATER LINE, AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. ONE SEGMENT OF THE SEWER PIPE SHALL BE CENTERED ON THE WATER LINE SUCH THAT THE JOINTS OF THE SEWER PIPE ARE EQUIDISTANT AND AT LEAST 9 FEET HORIZONTALLY FROM THE CENTERLINE OF THE WATER LINE. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WATERLINE PIPE. THE SANITARY SEWER MAIN SHALL BE EMBEDDED IN FLOWABLE FILL FROM ONE-QUARTER OF THE DIAMETER OF THE SANITARY SEWER MAIN BELOW THE CENTERLINE OF THE PIPE UP TO 12 INCHES ABOVE THE TOP OF PIPE FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT MINIMUM 9 FEET IN EACH DIRECTION FROM WATER LINE, PLUS 12 INCHES BEYOND THE JOINT ON EACH END.

RECORD DRAWING
 THESE RECORD DRAWINGS ARE BASED ON AS-BUILT DOCUMENTS PROVIDED BY THE CONTRACTOR OR DEVELOPER. FIELD INSPECTION OF CONSTRUCTION, IF REQUIRED FOR COMPLIANCE WITH CERTAIN REGULATORY STANDARDS, WAS NOT PERFORMED BY THE DESIGN ENGINEER. IT IS NOT GUARANTEED THAT THIS DOCUMENT REPRESENTS "AS-BUILT CONDITIONS."
 03/22/2022

STA 3+02.83 - W-5
1-8" GATE VALVE
N 7036500.34
E 2598537.67

STA 3+87.39 - W-5
1-8" GATE VALVE
N 7036499.62
E 2598453.15

STA 4+42.05 - W-5
INSTALL:
1-FH ASSEMBLY
N 7036498.32
E 2598398.50

STA 3+57.98 - W-5 =
STA 12+35.38 - W-4
1-8"x8" TEE
N 7036500.36
E 2598482.55

STA 12+04.98 - W-4
1-8" GATE VALVE
N 7036469.96
E 2598483.41

STA 9+01.92 - W-4
1-8" GATE VALVE
N 7036177.97
E 2598532.10

STA 8+52.24 - W-4 =
STA 2+81.29 - W-7
1-8"x8" TEE
N 7036141.14
E 2598565.44

STA 2+58.54 - W-7
INSTALL:
1-FH ASSEMBLY
1-8" GATE VALVE
N 7036125.86
E 2598548.57

INSTALL 2" IRRIGATION SERVICE
INSTALL 2-4" IRRIGATION SLEEVE
STA 0+48.46 - W-7
INSTALL:
1-FH ASSEMBLY
N 7035984.87
E 2598392.82

STA 0+10.88 - W-7
INSTALL:
1-8" PLUG
N 7035959.66
E 2598364.97

STA 2+05.88 - W-6
INSTALL:
1-FH ASSEMBLY
1-8" GATE VALVE
N 7036465.59
E 2598939.67

STA 0+62.22 - W-6
1-8" GATE VALVE
N 7036377.20
E 2598826.46

STA 0+20.94 - W-5
INSTALL:
1-FH ASSEMBLY
1-8" GATE VALVE
N 7036351.13
E 2598766.21

STA 16+41.78 - W-3 =
STA 0+00.00 - W-5 =
STA 0+00.00 - W-6 =
1-8"x8" TEE
N 7036335.57
E 2598780.22

INSTALL 2-4" IRRIGATION SLEEVES
INSTALL 2-4" ELECTRICAL SLEEVES
INSTALL 2-4" IRRIGATION SLEEVES
INSTALL 2-4" ELECTRICAL SLEEVES

STA 15+42.82 - W-3
1-8" GATE VALVE
N 7036260.59
E 2598844.72

STA 12+81.69 - W-3
INSTALL:
1-FH ASSEMBLY
1-8" GATE VALVE
N 7036031.21
E 2598967.11

STA 7+52.02 - W-4
1-8" GATE VALVE
N 7036064.03
E 2598629.30

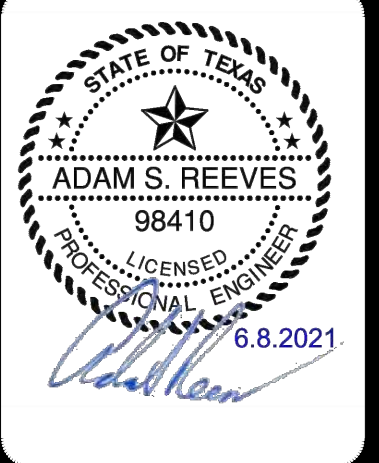
CONTRACTOR TO REFERENCE GRADING PLAN (SHEET 42) AND FUTURE STORM DRAIN C1 (SHEET 16B) FOR TEMPORARY CLEARANCE IN THIS LOCATION AND ENSURE WATER LINE HAS PROPER DEPTH

MATCH LINE - SHEET 35

DATE: Jun 08, 2021, 8:57:24 AM User ID: L5696666
 File: S:\projects\2021\06\08\100\100_20_00\Design\21_06_08\21_06_08_21_06_08_21_06_08_21_06_08.dwg

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. AERIAL IMAGERY PROVIDED BY GOOGLE/ESRI UNLESS OTHERWISE NOTED. Imagery © 2016, CAROL/Digital Globe, Texas Orthographic Program, USDA Farm Service Agency.

DATE	
NO.	
REVISION	



PAPE-DAWSON ENGINEERS
 FORT WORTH | SAN ANTONIO | AUSTIN | HOUSTON | DALLAS
 6500 W HWY. STE 700 | FT. WORTH, TX 76102 | 817.870.8868
 TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION #470

GIDEON GROVE - PHASE 2
 CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
 WATER DISTRIBUTION PLAN
 SHEET 1

PLAT NO.	#
JOB NO.	6126300
DATE	June 21
DESIGNER	
CHECKED	DRAWN
SHEET	34