

#### DRAINAGE LEGEND

PROJECT LIMITS	100 YR FLOODPLAIN
EXISTING CONTOUR	690-
PROPOSED CONTOUR	690-
PROPOSED WATER	W
PROPOSED SEWER	SS

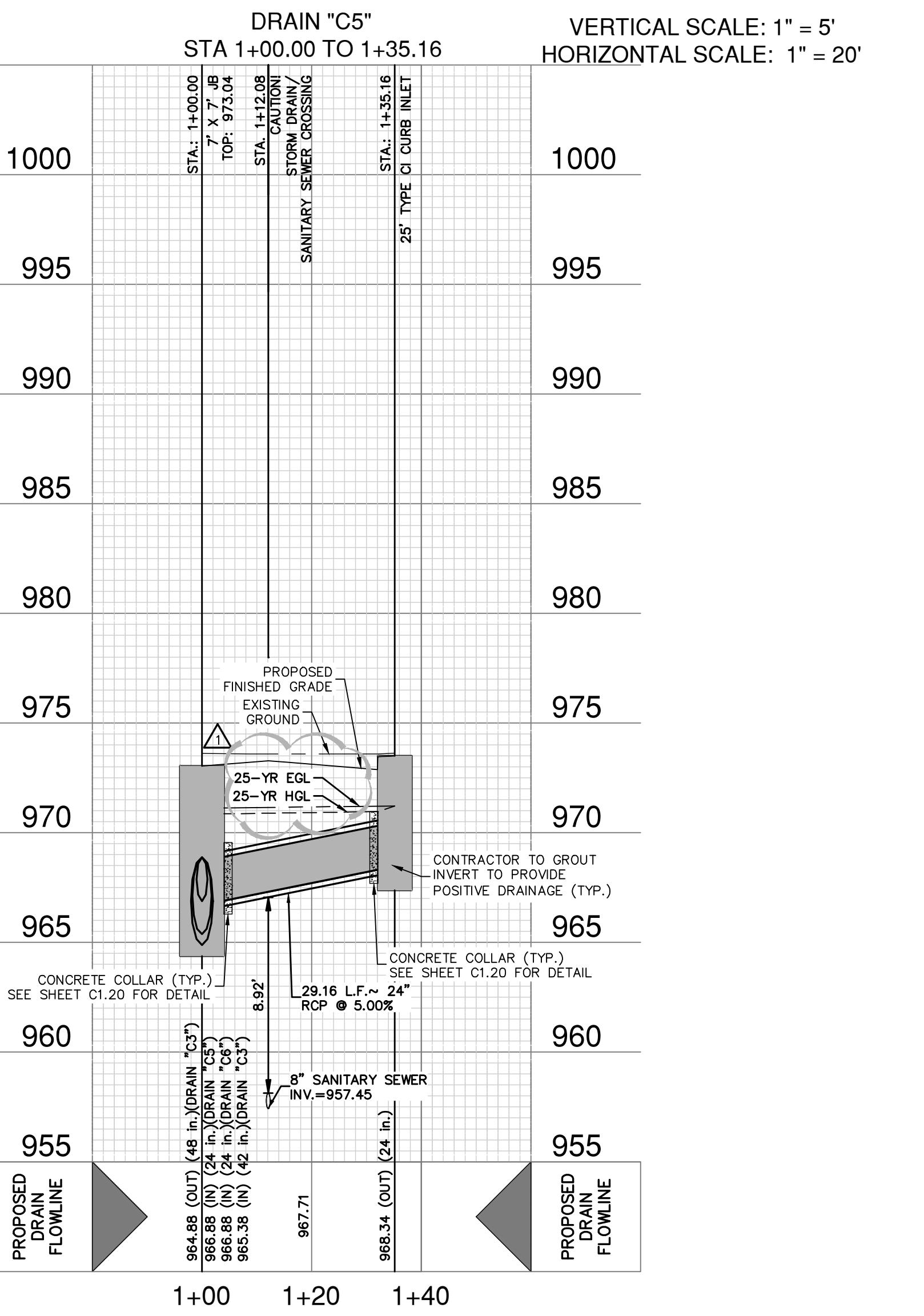
GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT

GETCTV

NO.	1	REVISION	1	UPDATED HYDRAULIC CALCULATIONS
DATE	1/22/26			
1/22/2026				
<b>HYDRAULIC CALCULATIONS</b> <b>STORM DRAIN</b> <b>STA. 1+00.00 TO 1+35.16</b>				
$Q_{25} / 2 = 17.5 \text{ CFS}$ $S = 4.15\%$ $L = 25' \text{ INLET}$ $Q_{\text{CAPTURED}} = 12 \text{ CFS}$ $Q_{\text{BYPASS}} = 5.5 \text{ CFS}$				
$Q_{25} = 12 \text{ CFS}$ $S = 5.00\%$ $S_f = 0.33\%$ $V = 4.14 \text{ FPS}$ $n = 0.013$ $D = 2.00 \text{ FT}$ $D_n = 2.00 \text{ FT}$				

#### PAPE-DAWSON

1612 INDEPENDENCE DR. STE 102 NEW BRAUNFELS, TX 78130-63533  
TEXAS ENGINEERING FIRM #4701 TEXAS SURVEYING FIRM #1028900



#### DRAINAGE & GRADING NOTES:

- A MEDINA COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN MEDINA COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR SHALL VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- ALL CONCRETE FOL TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE MEDINA COUNTY WILL ACCEPT.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

#### 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 CONTRACTOR SHALL INSTALL AND OPERATE 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 EXCAVATION. SIMILARLY, 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.

#### CAUTION!!

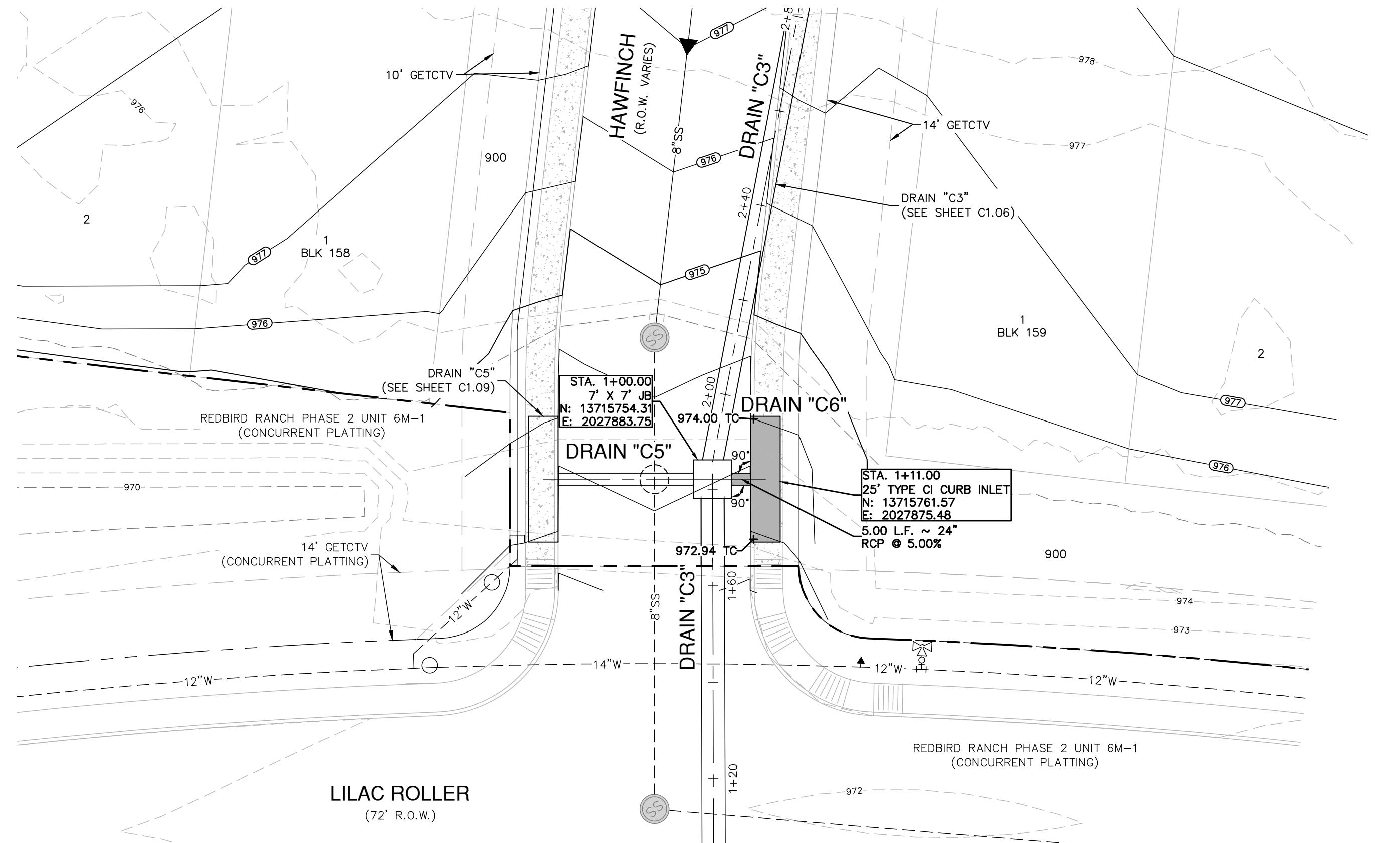
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT BODIGE TESTS WITHIN A MAXIMUM 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.

PLAT NO.	30004-37
JOB NO.	30004-37
DATE	DECEMBER 2025
DESIGNER	GC
CHECKED	<input checked="" type="checkbox"/>
DRAWN	ML
SHEET	C1.09

#### REDBIRD RANCH PHASE 2 UNIT 8M-1

MEDINA COUNTY, TEXAS  
DRAIN C5 - PLAN & PROFILE  
STA 1+00.00 TO 1+35.16

FOR PERMIT



### DRAINAGE LEGEND

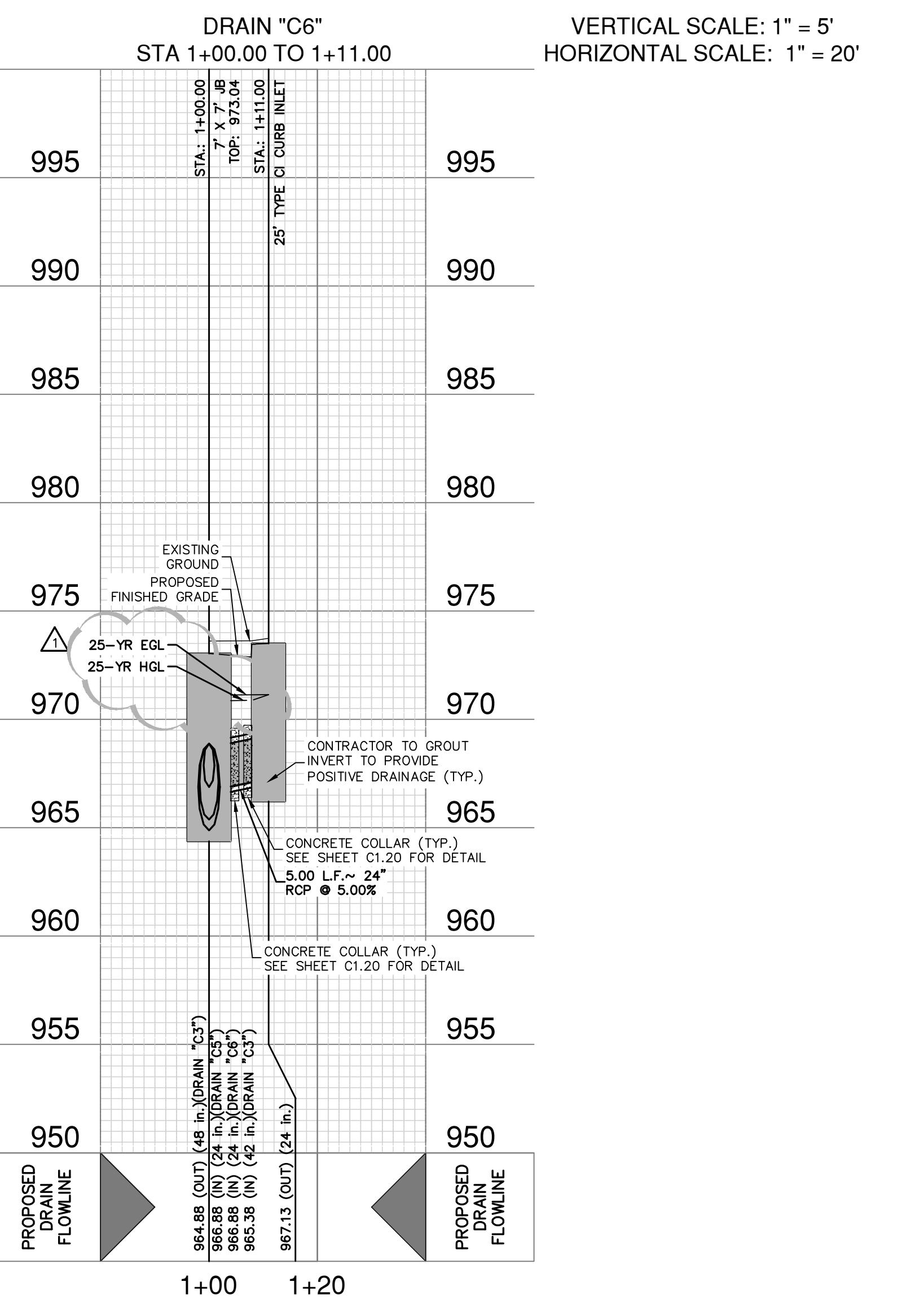
PROJECT LIMITS	100 YR FLOODPLAIN
EXISTING CONTOUR	690-
PROPOSED CONTOUR	690-
PROPOSED WATER	W
PROPOSED SEWER	SS

GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT

GETCTV

**PAPE-DAWSON**  
1612 INDEPENDENCE DR. STE 102 NEW BRAUNFELS, TX 78130-6353  
TEXAS ENGINEERING FIRM #4701 TEXAS SURVEYING FIRM #1028900

**REDBIRD RANCH PHASE 2 UNIT 8M-1**  
MEDINA COUNTY, TEXAS  
DRAIN C6 - PLAN & PROFILE  
STA 1+00.00 TO 1+11.00



### DRAINAGE & GRADING NOTES:

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### TRENCH EXCAVATION SAFETY PROTECTION:

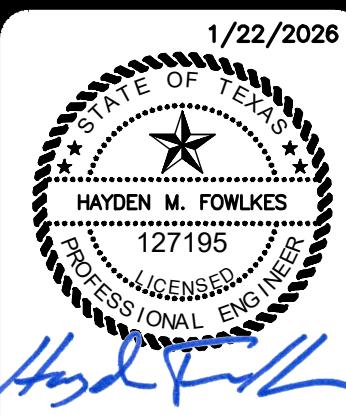
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE CONTRACTOR SHALL INSTALL AND OPERATE THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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 EXCAVATION. SPECIFICALLY, THE 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.

### CAUTION!!

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PLAT NO. \_\_\_\_\_  
JOB NO. 30004-37  
DATE DECEMBER 2025  
DESIGNER GC  
CHECKED  DRAWN  ML  
SHEET C1.10

FOR PERMIT



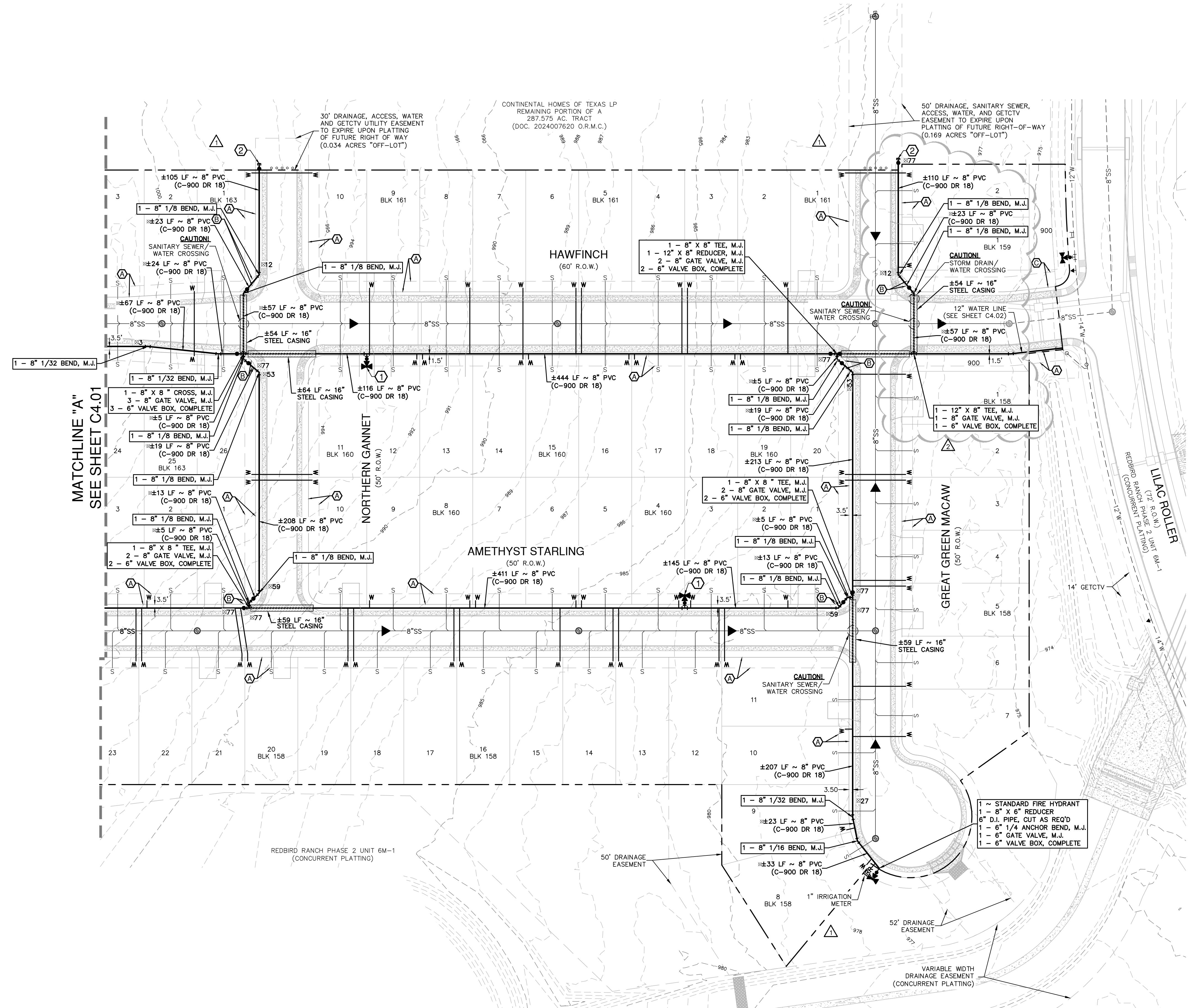
**PAPE-DAWSON**  
1612 INDEPENDENCE DR. STE 102 NEW BRAUNFELS, TX 78130-6353  
TEXAS ENGINEERING FIRM #4701 TEXAS SURVEYING FIRM #1028900

**REDBIRD RANCH PHASE 2 UNIT 8M-1**  
MEDINA COUNTY, TEXAS  
DRAIN C6 - PLAN & PROFILE  
STA 1+00.00 TO 1+11.00

PLAT NO. \_\_\_\_\_  
JOB NO. 30004-37  
DATE DECEMBER 2025  
DESIGNER GC  
CHECKED  DRAWN  ML  
SHEET C1.10

Date: July 11, 2024, 11:26 AM – User ID: mllopez  
File: P:\300\04\37\Design\Civil\WTOA-30004-37.dwg

**MATCHLINE "A"**  
**SEE SHEET C4.01**



This map shows the location of the study area, labeled 'SITE', in Bexar County, Texas. The map includes county boundaries, roads, and political subdivisions. Key features include:

- Geographic Labels:** BEXAR COUNTY, MEDINA COUNTY, HILLVIEW, GRANDVIEW, TRAILRIDGE, STATE HWY 211, C.R. 381, REEVES LOOP, and several ETJs (Environmental Transfer Joints).
- Boundaries:** The map shows the boundaries between Bexar and Medina counties, and between various political subdivisions.
- Roads:** GALT RD, MURZBACH, and REEVES LOOP are labeled.
- Other:** A compass rose is located in the upper right corner of the map area.

LOCATION MAP  
NOT-TO-SCALE

A scale bar and registration marks for a map. The scale bar is labeled 'SCALE: 1" = 50' 100' 150' with a 0' mark at the left end. The bar is divided into three segments: a white segment with a black and white checkered pattern, a black segment, and another white segment. To the left of the scale bar is a registration mark consisting of a circle with a crosshair and a central dot.

# WATER LEGEND

ITEM		
8" WATER LINE	LF	4368
12" WATER LINE	LF	213
16" STEEL CASING	LF	504
24" STEEL CASING	LF	64
3/4" SINGLE SERVICE, SHORT	EA	49
1" SINGLE SERVICE, LONG	EA	53
LUES	EA	102
FIRE HYRDANT	EA	5
TEST STATION	EA	5

1 ~ STANDARD FIRE HYDRANT  
1 - 8" X 6" ANCHOR TEE, M.J.  
6" D.I. PIPE, CUT AS REQ'D  
1 - 6" 1/4 ANCHOR BEND, M.J.  
1 - 6" GATE VALVE, M.J.  
1 - 6" VALVE BOX, COMPLETE  
(SEE YANCEY DETAIL W-20, SHEET C4.10) TEST STATION

1 - 2 1/2" FLUSH VALVE  
(SEE YANCEY DETAIL W-32, SHEET C4.10)  
1 - 8" GATE VALVE, M.J.  
1 - 6" VALVE BOX, COMPLETE

1 - 2 1/2" FLUSH VALVE  
(SEE YANCEY DETAIL W-32, SHEET C4.10)

A 10' GETCTV EASEMENT

B VARIABLE WIDTH WATER EASEMENT

C 14' GETCTV EASEMENT

## JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. 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 HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

## UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

# 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.

# PAPE-DAWSON

11672 INDEPENDENCE DR, STE 102 | NEW BRAUNFELS, TX 78132 | 830.632.5633

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# REDBIRD RANCH PHASE 2 UNIT 8M-1

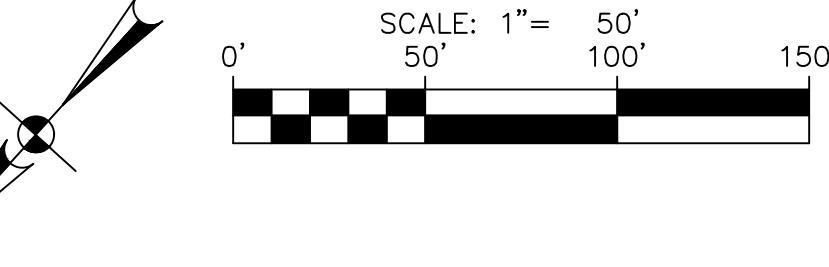
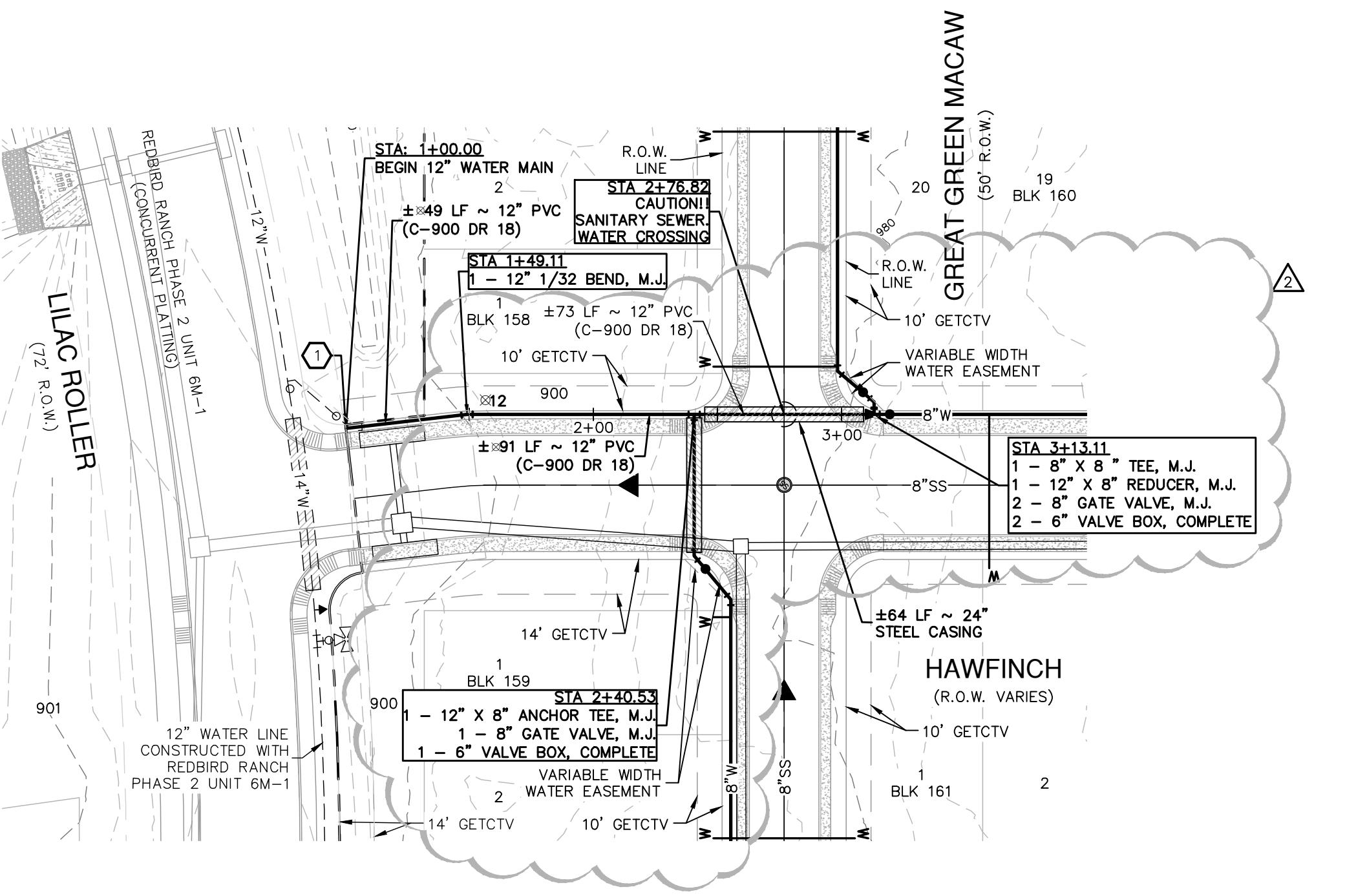
MEDINA COUNTY, TEXAS

# MEDINA COOGIN I, I LEXAC

## FOR PERMIT

AT NO. N/A  
B NO. 30004-37  
ATE DECEMBER 2025  
SIGNER GC  
CHECKED LL DRAWN GP  
HEET C4.00

Date: July 11, 2024, 11:27 AM – User ID: mlopez  
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## WATER LEGEND

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED SINGLE SERVICE

PROPOSED DUAL SERVICE

SINGLE IRRIGATION SERVICE  
(REF. PLAN VIEW FOR SIZE)

INT RESTRAINT

CARTERATIVE FILTER STRIP

S, ELECTRIC, TELEPHONE & TELEVISION EASEMENT

EXISTING FIRE HYDRANT

W

SS

MANHOLE

W

IRR

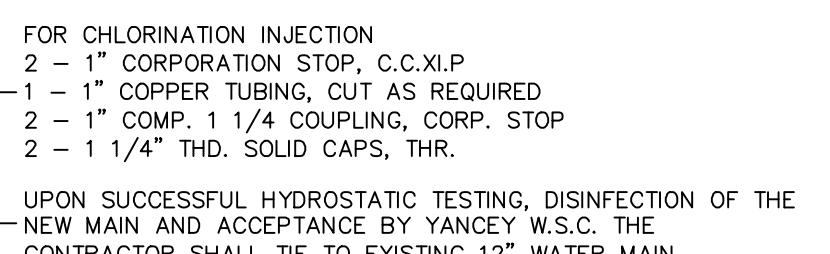
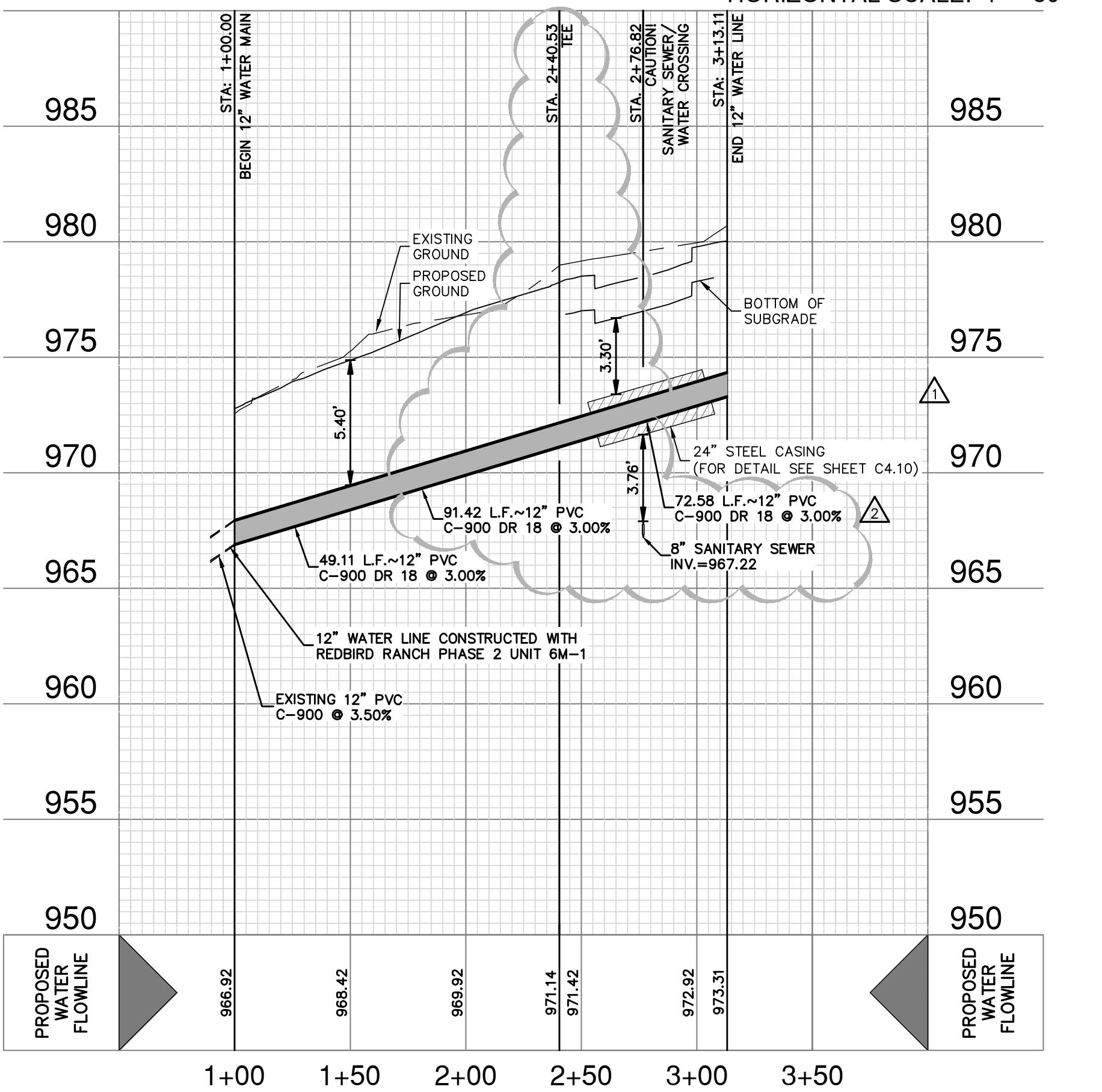
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GETCTV

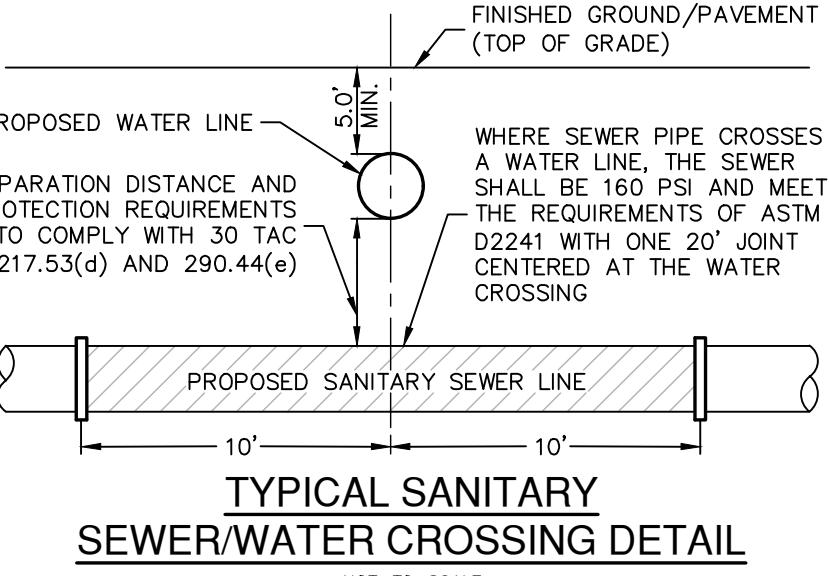
WATER LINE	LF	4368
WATER LINE	LF	213
STEEL CASING	LF	504
STEEL CASING	LF	64
SINGLE SERVICE, SHORT	EA	48
SINGLE SERVICE, LONG	EA	54
	EA	102
HYRDANT	EA	5
STATION	EA	5

12 INCH WATER MAIN-01  
STA 1+00.00 TO 3+13.11

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 50'



SUCCESSFUL HYDROSTATIC TESTING, DISINFECTION OF THE  
MAIN AND ACCEPTANCE BY YANCEY W.S.C. THE  
ACTOR SHALL TIE TO EXISTING 12" WATER MAIN



## INT RESTRAINT NOTE:

TRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND  
WIDE JOINT RESTRAINING HARNESSSES OR FIELD LOCK GASKETS AT ALL  
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## **ENHANCED EXCAVATION SAFETY PROTECTION:**

TRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE  
STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT,  
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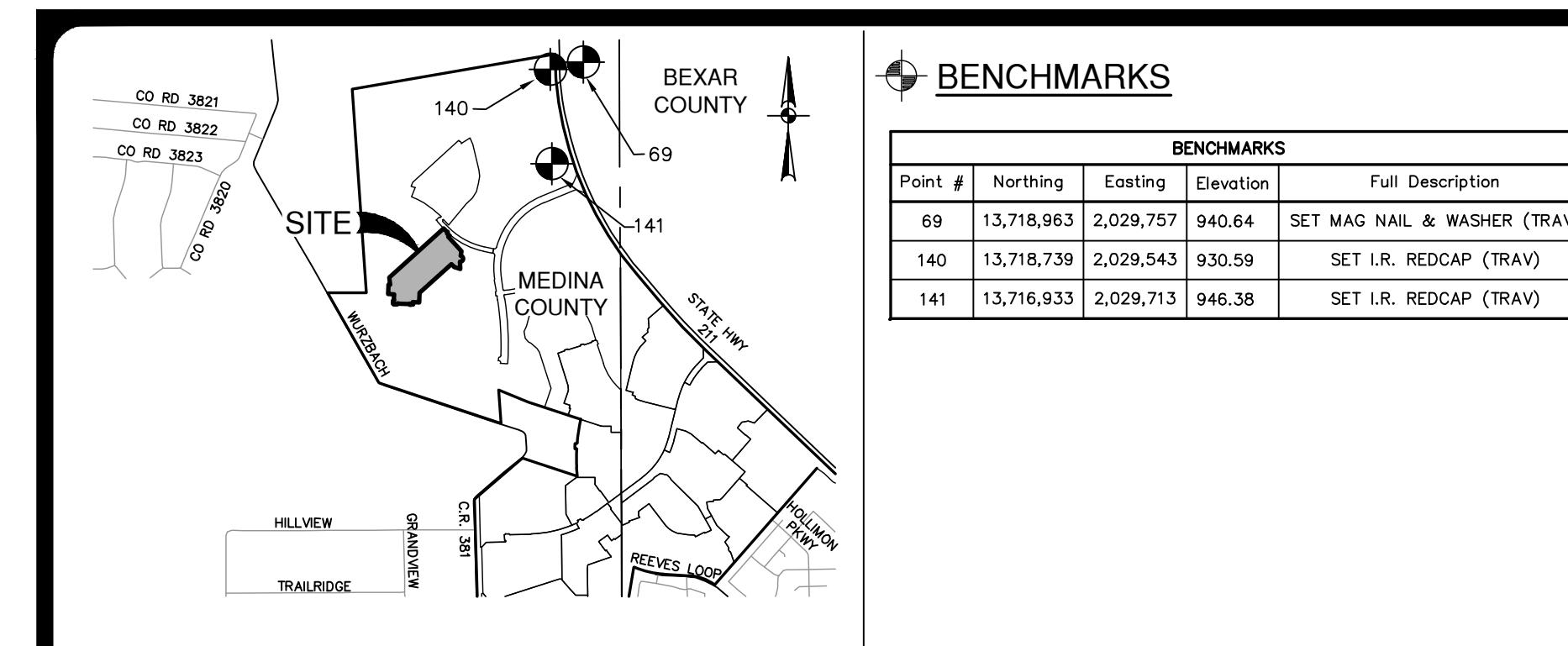
# PAPE-DAWSON

# MEDINA COUNTY, TEXAS

LEADER

NO. \_\_\_\_\_  
NO. 30004-37  
\_\_\_\_\_  
DECEMBER 2025  
\_\_\_\_\_  
SIGNER GC  
\_\_\_\_\_  
CHECKED GC DRAWN CA  
\_\_\_\_\_  
T C4.02  
\_\_\_\_\_

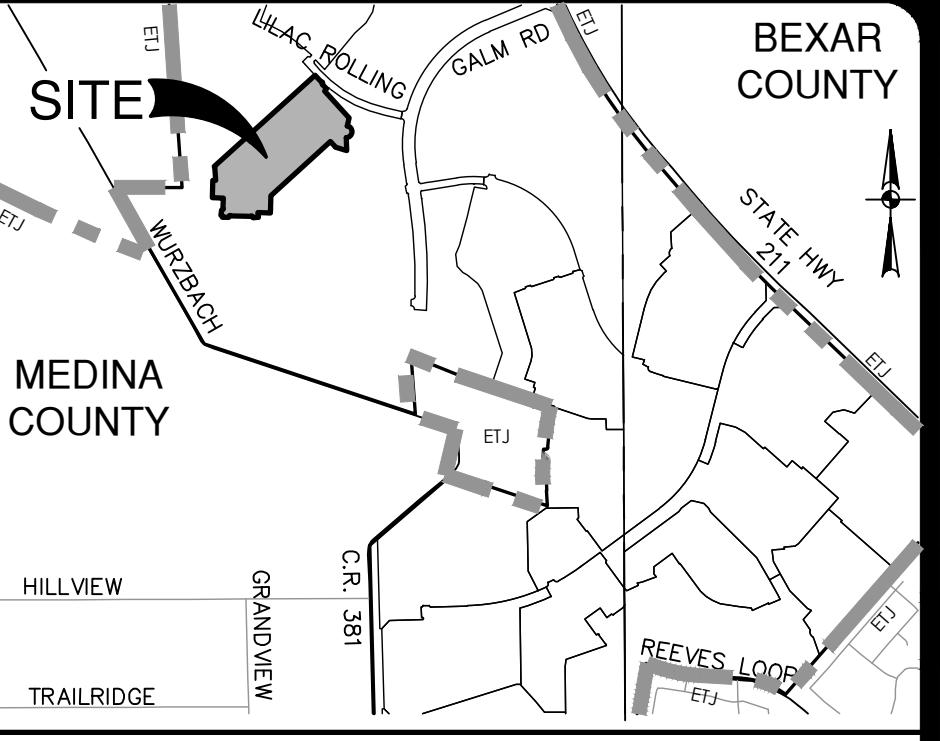
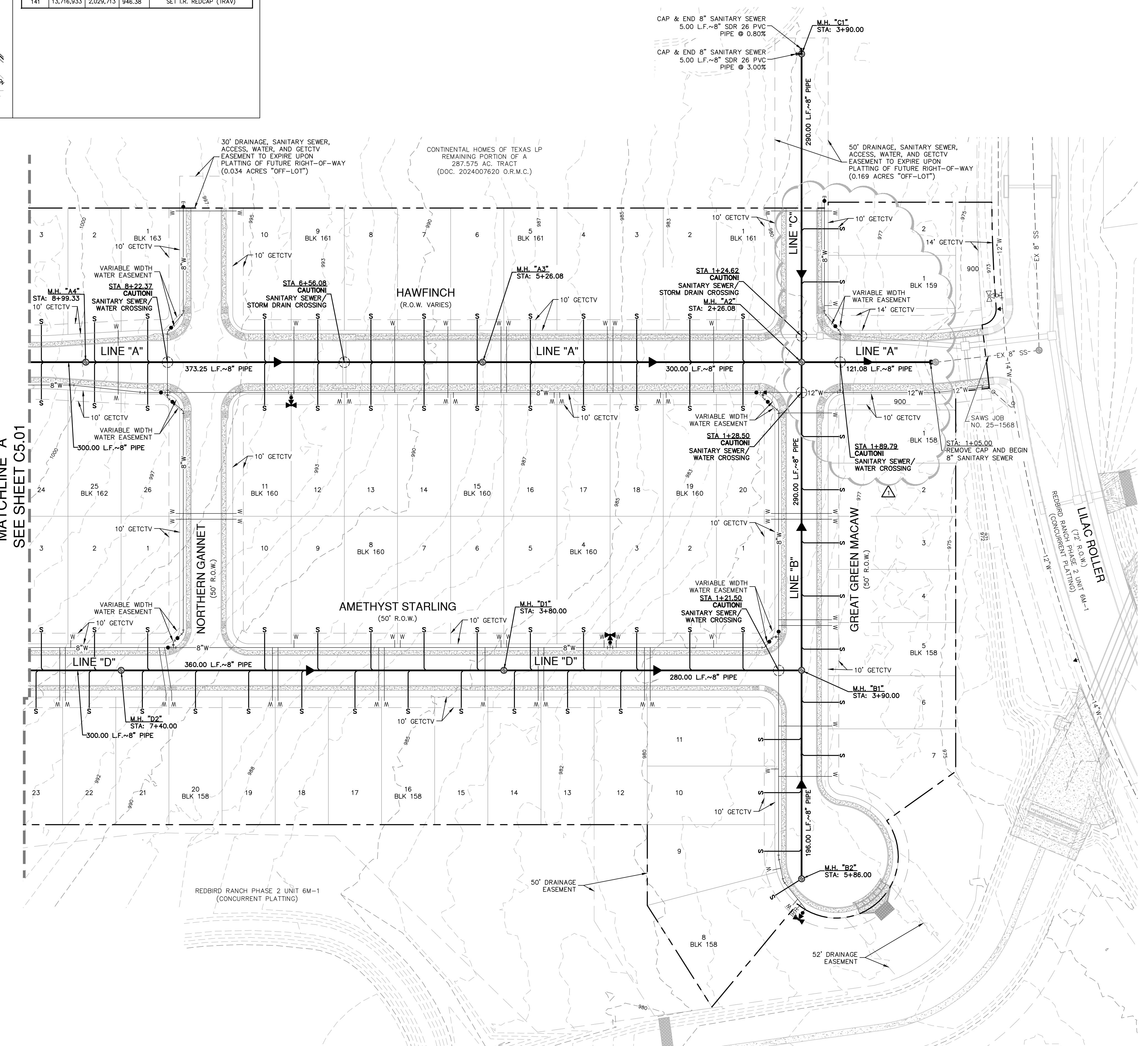
## FOR PERMIT



BENCHMARK LOCATION MAP

NOT TO SCALE

MATCHLINE "A"  
SEE SHEET C5.01



LOCATION MAP

NOT TO SCALE

SCALE: 1" = 50'  
0' 50' 100' 150'

**PAPE-DAWSON**

1612 INDEPENDENCE DR. STE 102 NEW BRAUNFELS, TX 78130-63533

TEXAS ENGINEERING FIRM #4701 TEXAS SURVEYING FIRM #1028900

REDBIRD RANCH PHASE 2 UNIT 8M-1  
MEDINA COUNTY, TEXAS

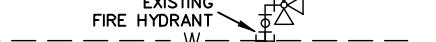
OVERALL SANITARY SEWER PLAN

### SEWER LEGEND

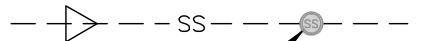
PROJECT LIMITS



EXISTING WATER



EXISTING SEWER



PROPOSED SEWER



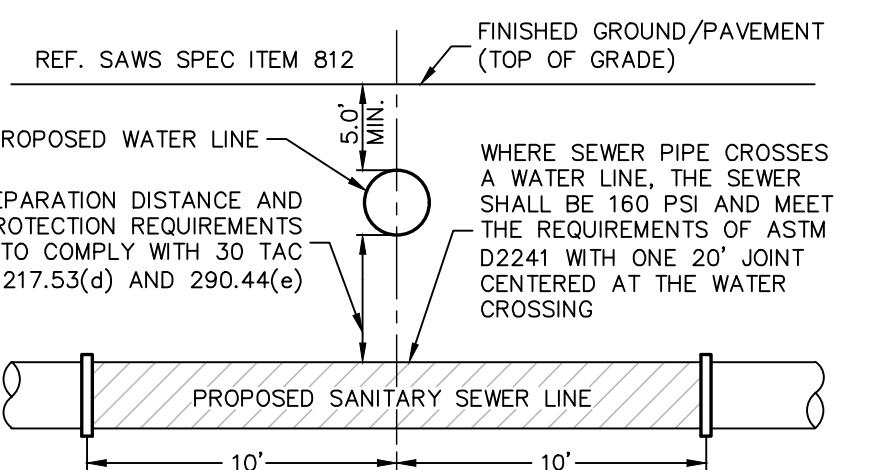
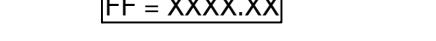
PROPOSED WATER



PROPOSED SEWER LATERAL



FINISHED FLOOR ELEVATION FOR SEWER



### TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

NOT TO SCALE

#### CAUTION!!

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#### FINISHED FLOOR NOTES:

1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM FINISHED FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR SANITARY SEWER LINES AND SANITARY LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNSHILL SIDES OF THE PROPOSED ROADWAYS.

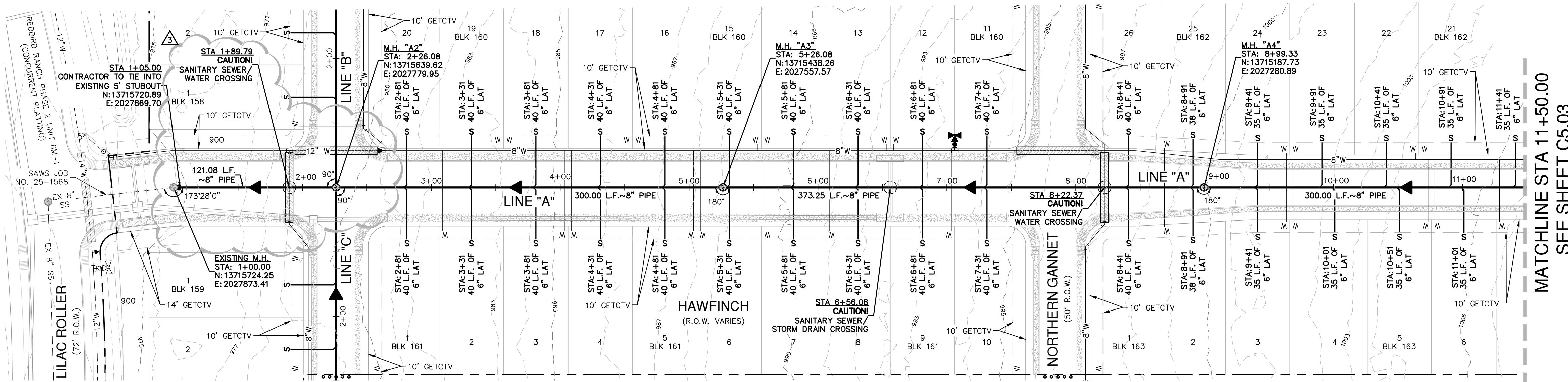
**TRENCH EXCAVATION SAFETY PROTECTION:**  
CONTRACTORS AND / OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STAFF, SURVEY DESIGN, GEOTECHNICAL / SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE 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 PROVE TO BE 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.

#### SEWER:

DEVELOPER'S NAME:	CONTINENTAL HOMES OF TEXAS, L.P.				
ADDRESS:	5419 N. LOOP 1604 E.				
CITY:	SAN ANTONIO	STATE:	TEXAS	ZIP:	78247
PHONE #:	210-496-2668	FAX #:			
SAWS BLOCK MAP #: 064582 TOTAL EDU'S: 102 TOTAL ACREAGE: 20.433					
TOTAL LINEAR FOOTAGE OF PIPE: 4,328 LF. of 8" SS Main PLAT NO. _____					
NUMBER OF LOTS: 102 SAW'S JOB NO.: 25-1567					

PLAT NO. \_\_\_\_\_  
JOB NO. 30004-37  
DATE DECEMBER 2025  
DESIGNER GC  
CHECKED DRAWN GP  
SHEET C5.00

FOR PERMIT



ATCHLINE STA 11+50.00  
SEE SHEET C5-03

## SEWER LEGEND

## PROJECT LIMITS

EXISTING WATER	—
EXISTING SEWER	—
PROPOSED SEWER	—
PROPOSED WATER	—
PROPOSED SEWER LATERAL	—
FINISHED FLOOR ELEVATION FOR SEWER	—

2020 RELEASE UNDER E.O. 14176

# PAPER-DAWSON

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #100228800

STA 1+05.00 TO 11+50.00

EDBIRD RANCH PHASE 2 UNIT 8M-1

EF. SAWs SPEC ITEM 812

POSED WATER LINE

MIN. 5'

LOCATION DISTANCE AND  
SECTION REQUIREMENTS  
COMPLY WITH 30 TAC  
.53(d) AND 290.44(e)

PROPOSED SANITARY SEWER LINE

FINISHED GROUND/PAVEMENT  
(TOP OF GRADE)

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

10' 10'

TYPICAL SANITARY  
SEWER/WATER CROSSING DETAIL

NOT TO SCALE

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

**TRENCH EXCAVATION SAFETY PROTECTION:**

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE  
STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT,  
SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL  
INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE  
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.  
CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS  
AND PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION  
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  
WORKING CONDITIONS OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

## FOR PERMIT

SANITARY SEWER LINE "A"  
STA 1+05.00 TO 11+50.00

VERTICAL SCALE: 1" = 5'  
HORIZONTAL SCALE: 1" = 50'

1005  
1000  
995  
990  
985  
980  
975  
970  
965  
960  
955

1+00 1+50 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50

959.76 962.41 965.36 966.90 (LINE "A" OUT) 967.10 (LINE "B" IN) 967.10 (LINE "C" IN) 968.02

969.95 971.87 973.80 975.72 977.65 978.65 (OUT) 978.85 (IN) 979.47

980.77 982.07 983.37 984.67 985.97 987.27 990.66 (OUT) 990.86 (IN) 991.38

991.98 993.58 996.78

1005  
1000  
995  
990  
985  
980  
975  
970  
965  
960  
955

SEE SHEET C5.03  
MATCHLINE STA 11+50.00

11 3 GR

EXISTING 8" SANITARY SEWER LINE "A" (REDBIRD RANCH PHASE 2 UNIT 6M-1) SAW'S JOB NO. 25-1568  
@ 8" SS 0.40 %  
EXISTING 5.00 L.F. ~8" SDR 26 PVC PIPE @ 5.90%

STA. 1+05.00 TIE INTO EXISTING 5' STUBOUT  
STA. 1+89.79 CAUTION! SANITARY SEWER/WATER CROSSING M.H. "A" STA. 2+26.08 TOP = ±978.8

STA. 2+81.00 VERTICAL STACK STA: 3+31.00 3.0 V.F.  
STA. 3+81.00 VERTICAL STACK STA: 4+31.00 2.9 V.F.  
STA. 4+81.00 VERTICAL STACK STA: 5+31.00 2.7 V.F.  
STA. 5+81.00 VERTICAL STACK STA: 6+31.00 2.6 V.F.  
STA. 6+81.00 VERTICAL STACK STA: 7+31.00 2.5 V.F.  
STA. 7+81.00 VERTICAL STACK STA: 8+31.00 2.4 V.F.  
STA. 8+81.00 VERTICAL STACK STA: 9+31.00 2.3 V.F.

300.00 L.F. ~8" SDR 26 PVC PIPE @ 3.85%  
373.25 L.F. ~8" SDR 26 PVC PIPE @ 2.60%  
30.00 L.F. ~8" SDR 26 PVC PIPE @ 3.20%

8" WATER INV.=971.28  
16" STEEL CASING (FOR DETAIL SEE SHEET C4.10)  
30.00 L.F. ~8" SDR 26 PVC PIPE @ 3.20%

30.00 L.F. ~8" SDR 26 PVC PIPE @ 3.20%

8" WATER INV.=992.07  
16" STEEL CASING (FOR DETAIL SEE SHEET C4.10)  
30.00 L.F. ~8" SDR 26 PVC PIPE @ 3.20%

SEE WATER CROSSING DETAIL THIS SHEET

SEE WATER CROSSING DETAIL THIS SHEET

SANITARY SEWER INVERT  
SANITARY SEWER INVERT

Date: July 11, 2024, 11:27 AM – User ID: mlopez  
File: P:\300\04\37\Design\Civil\SSA-30004-37.dwg

# FOR PERMIT

