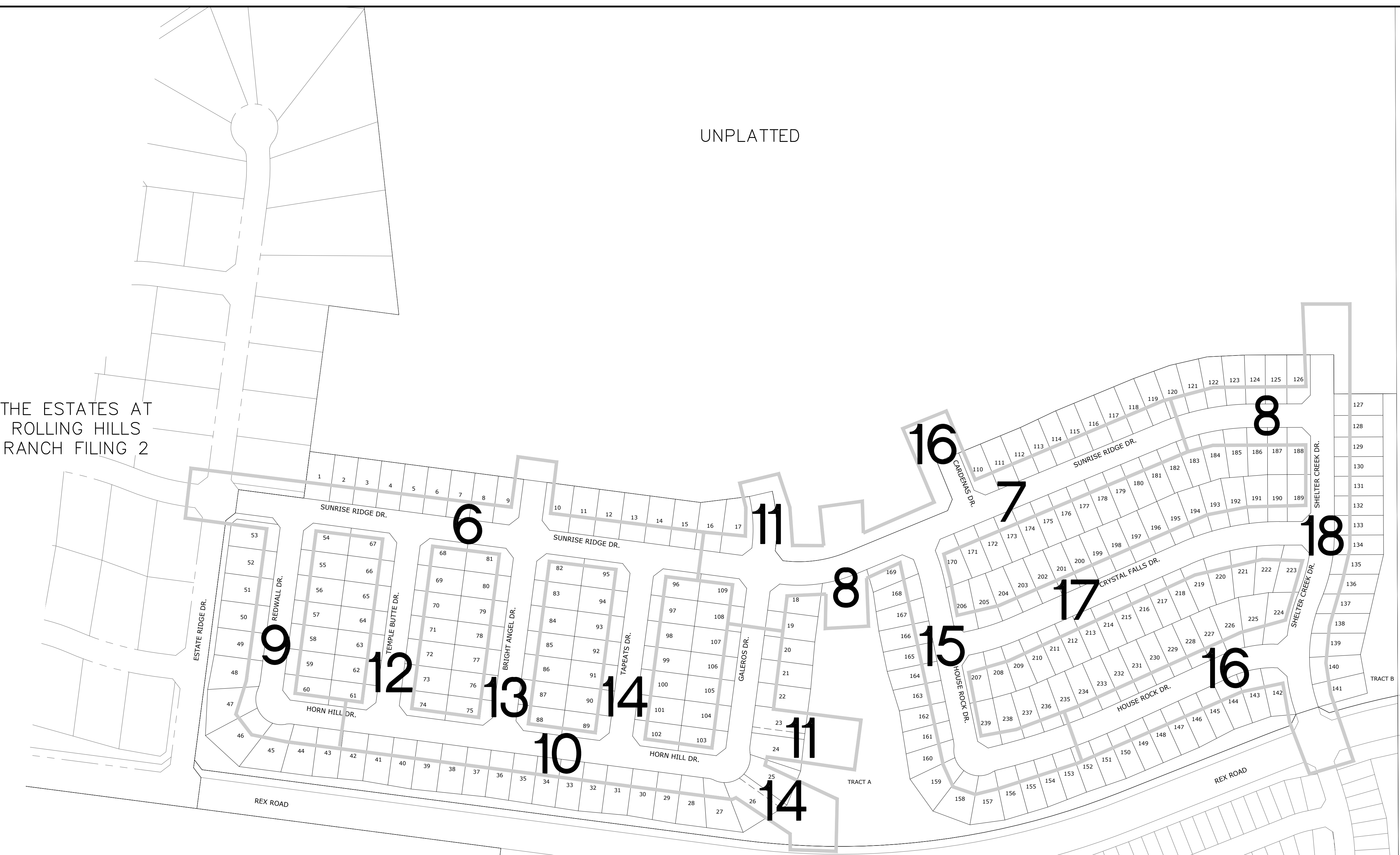


THE ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED


FALCON REGIONAL PARK



ROLLING HILLS RANCH FILING 3

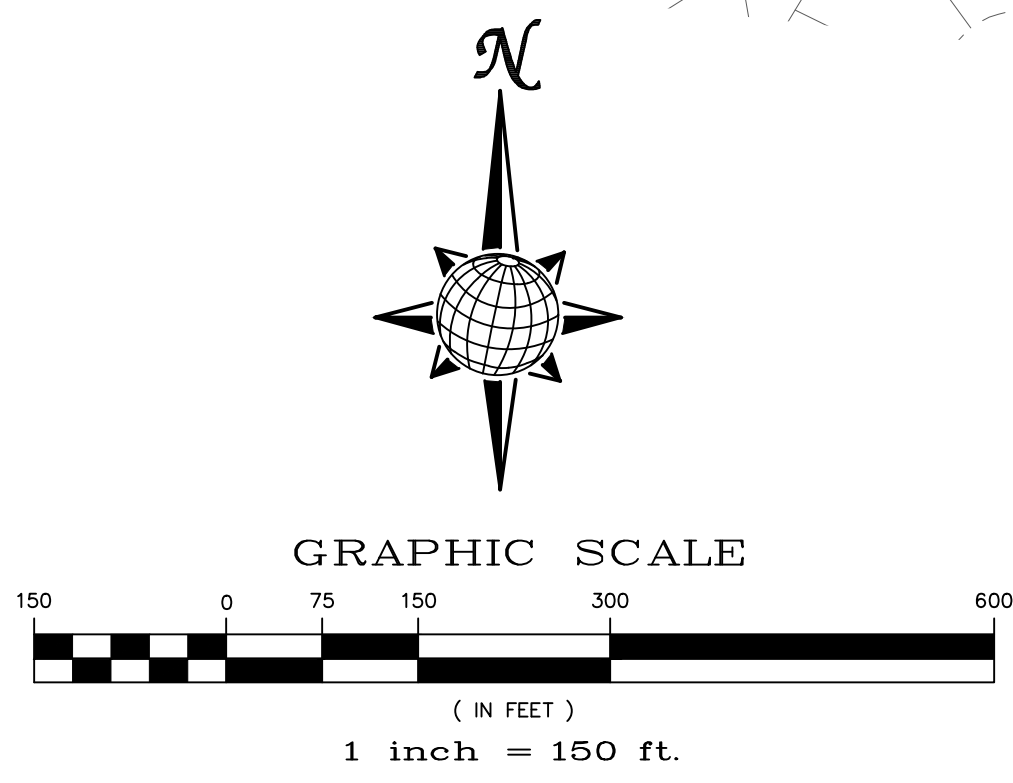
THE SANCTUARY FILING 1 AT MERIDIAN RANCH

FALCON REGIONAL PARK



TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



ROLLING HILLS RANCH FILING 2

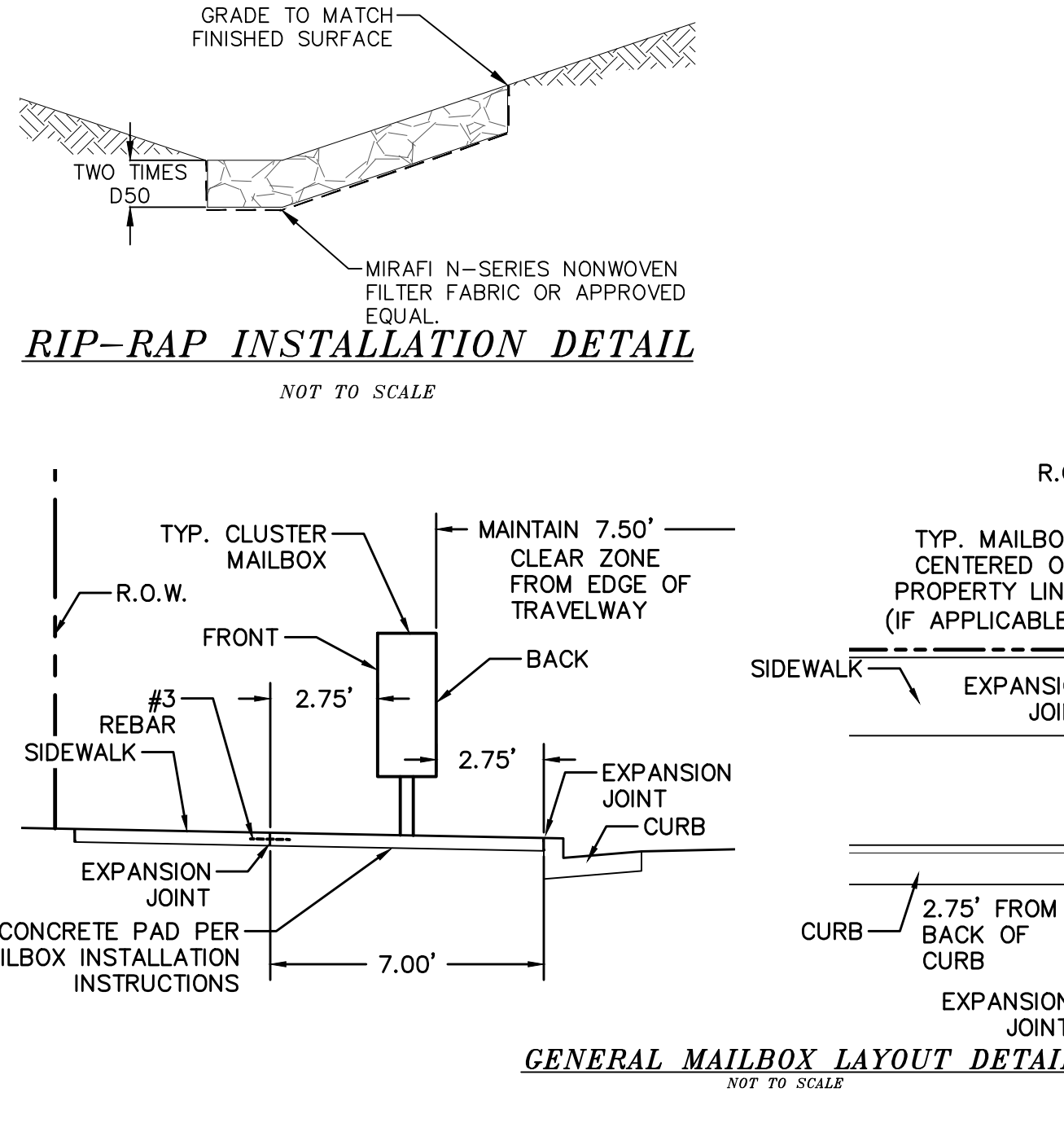
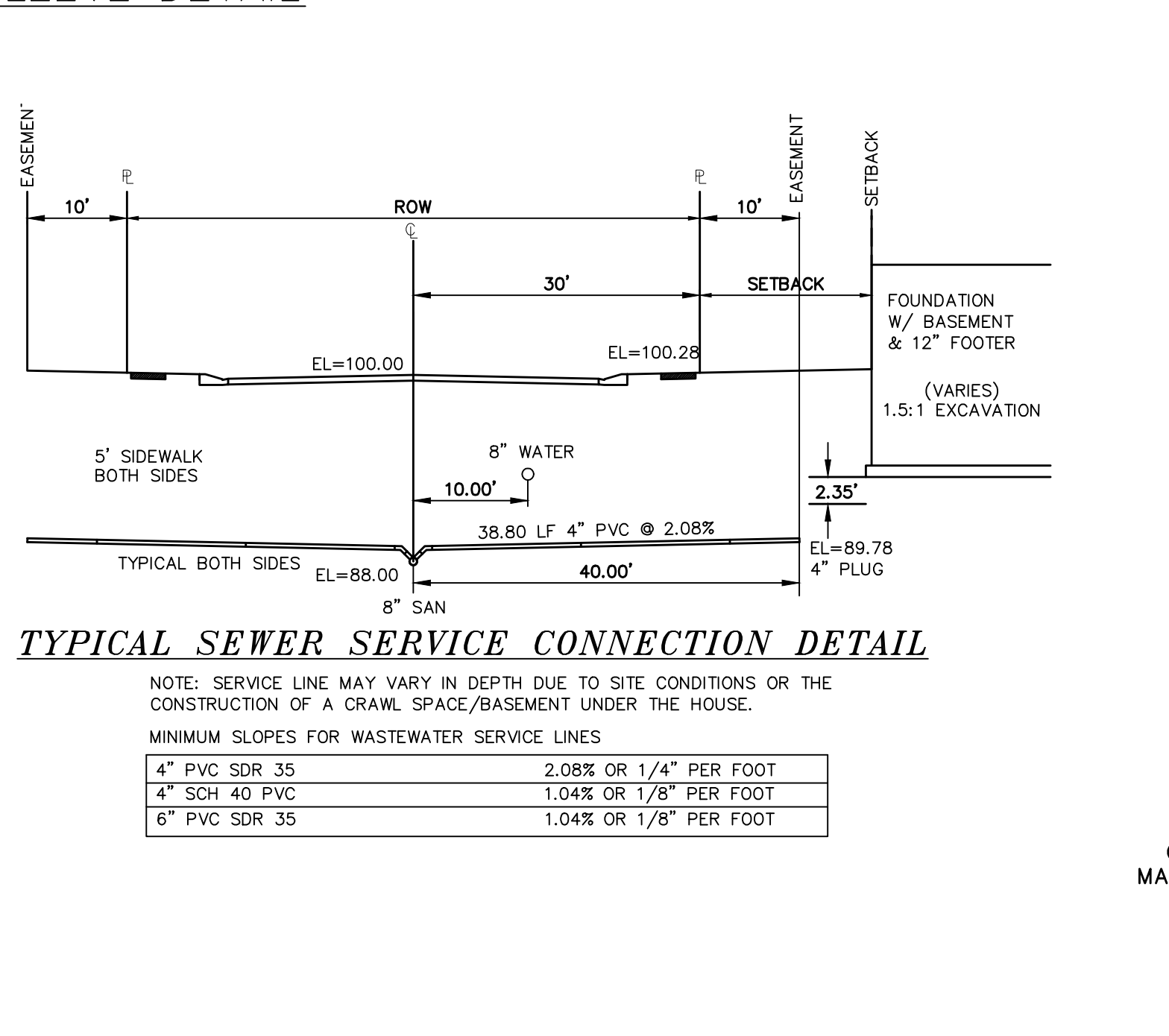
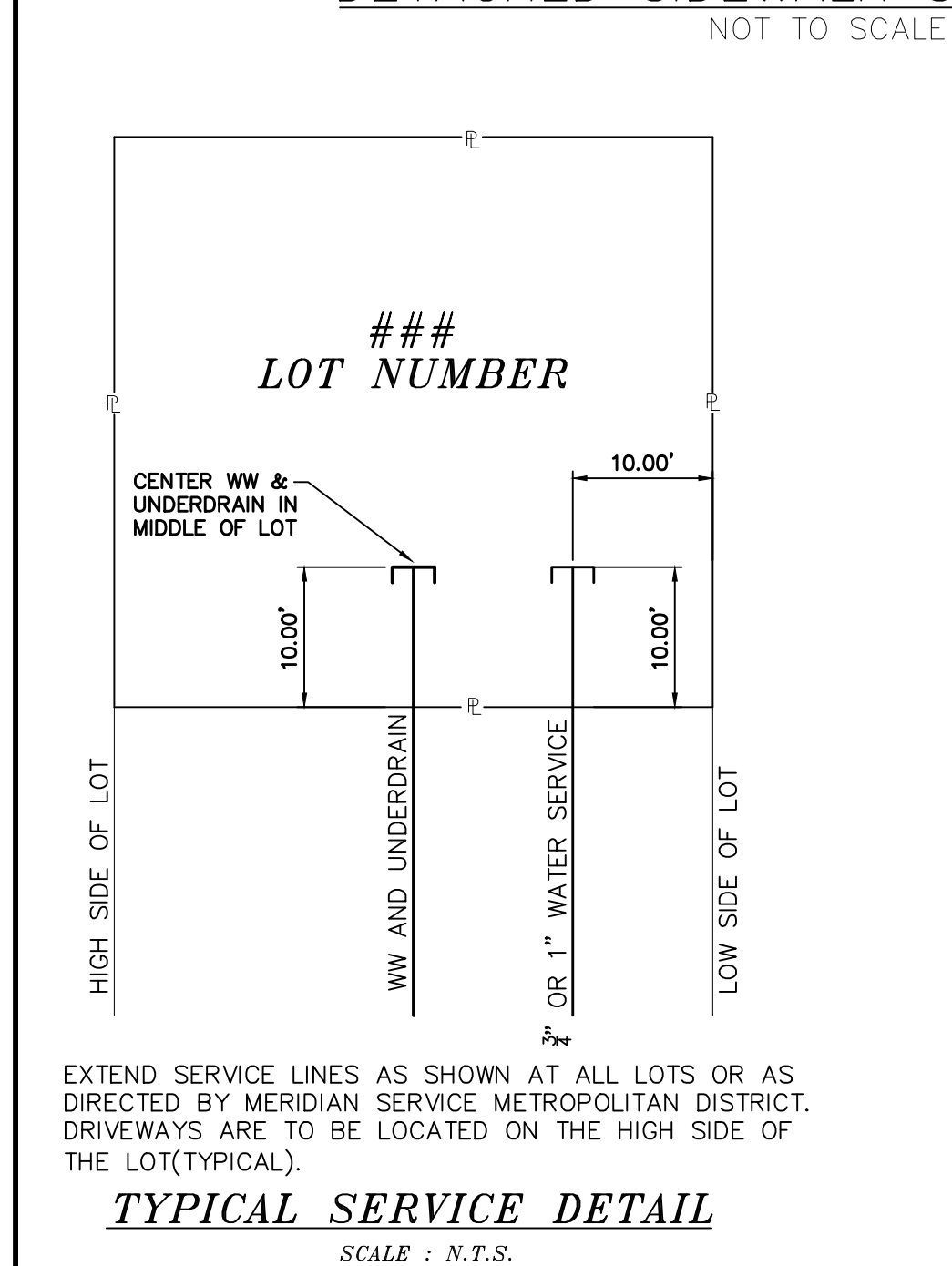
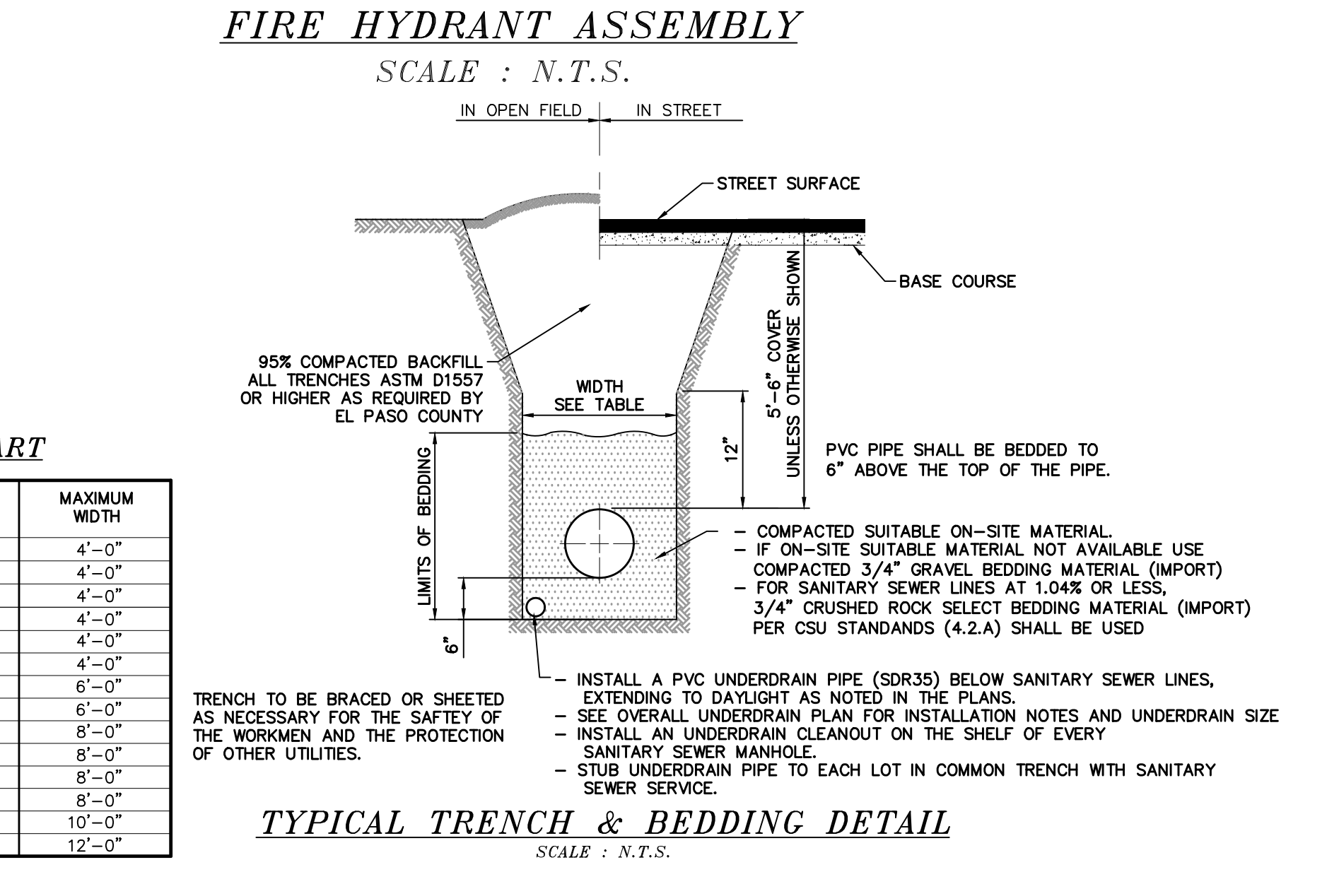
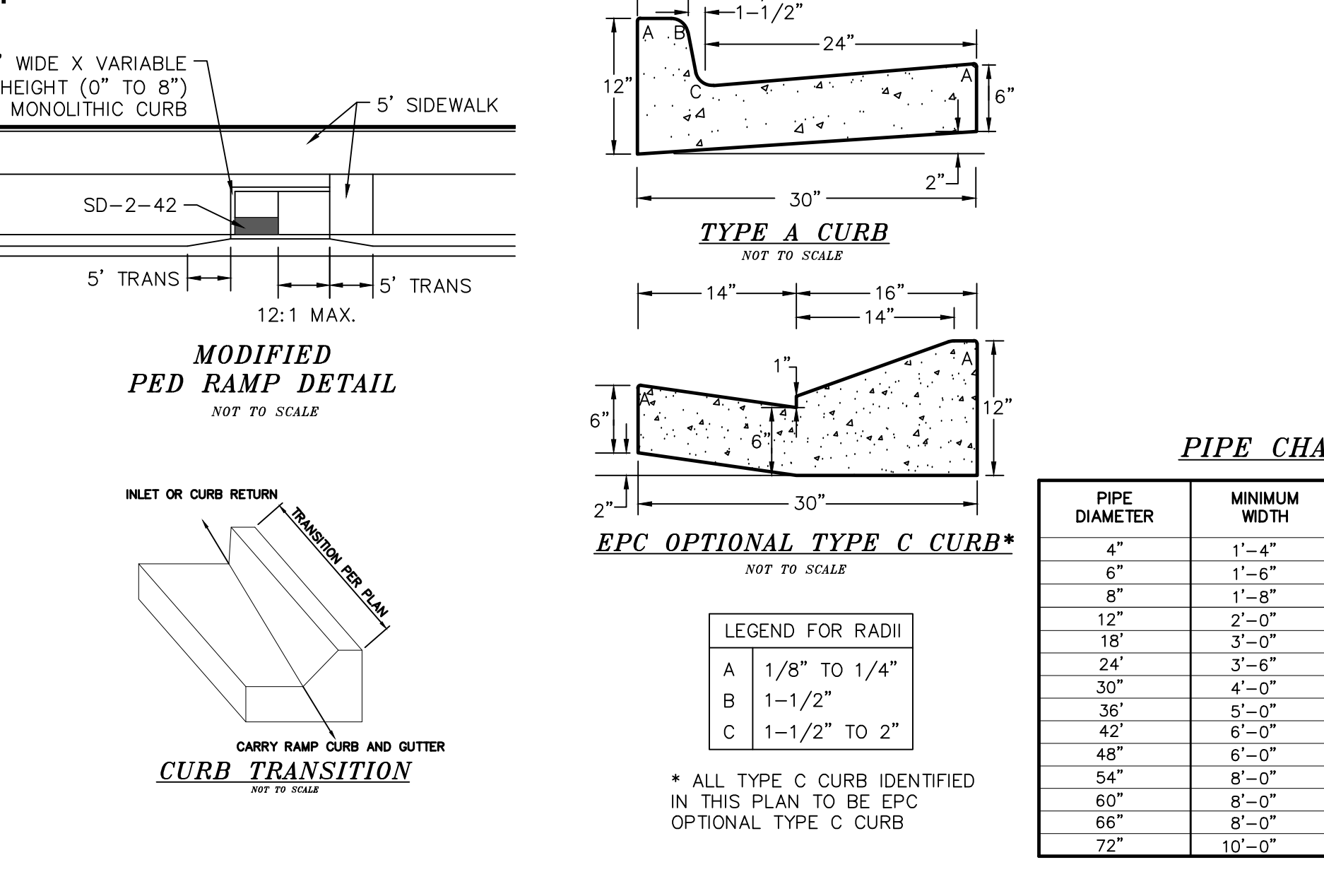
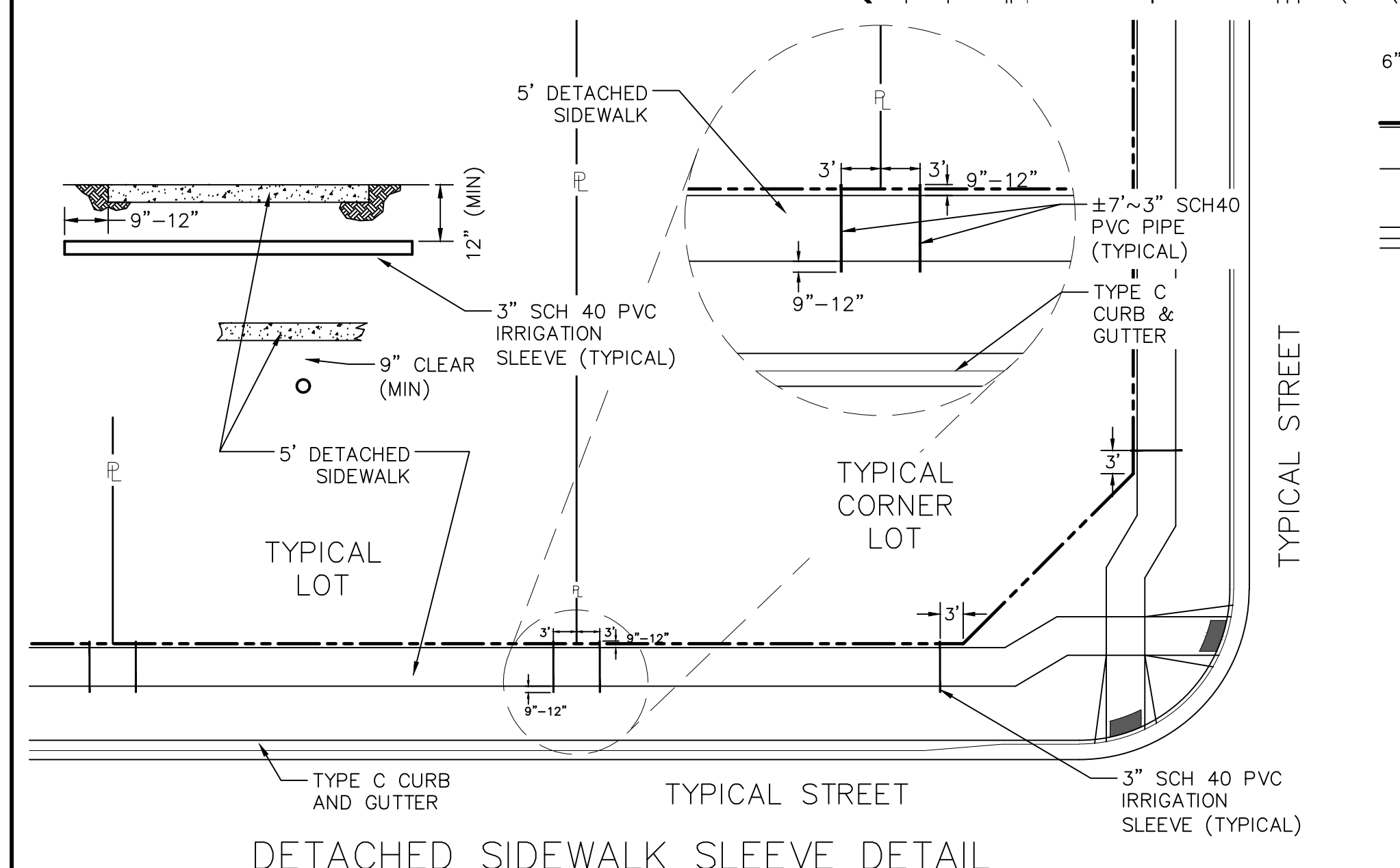
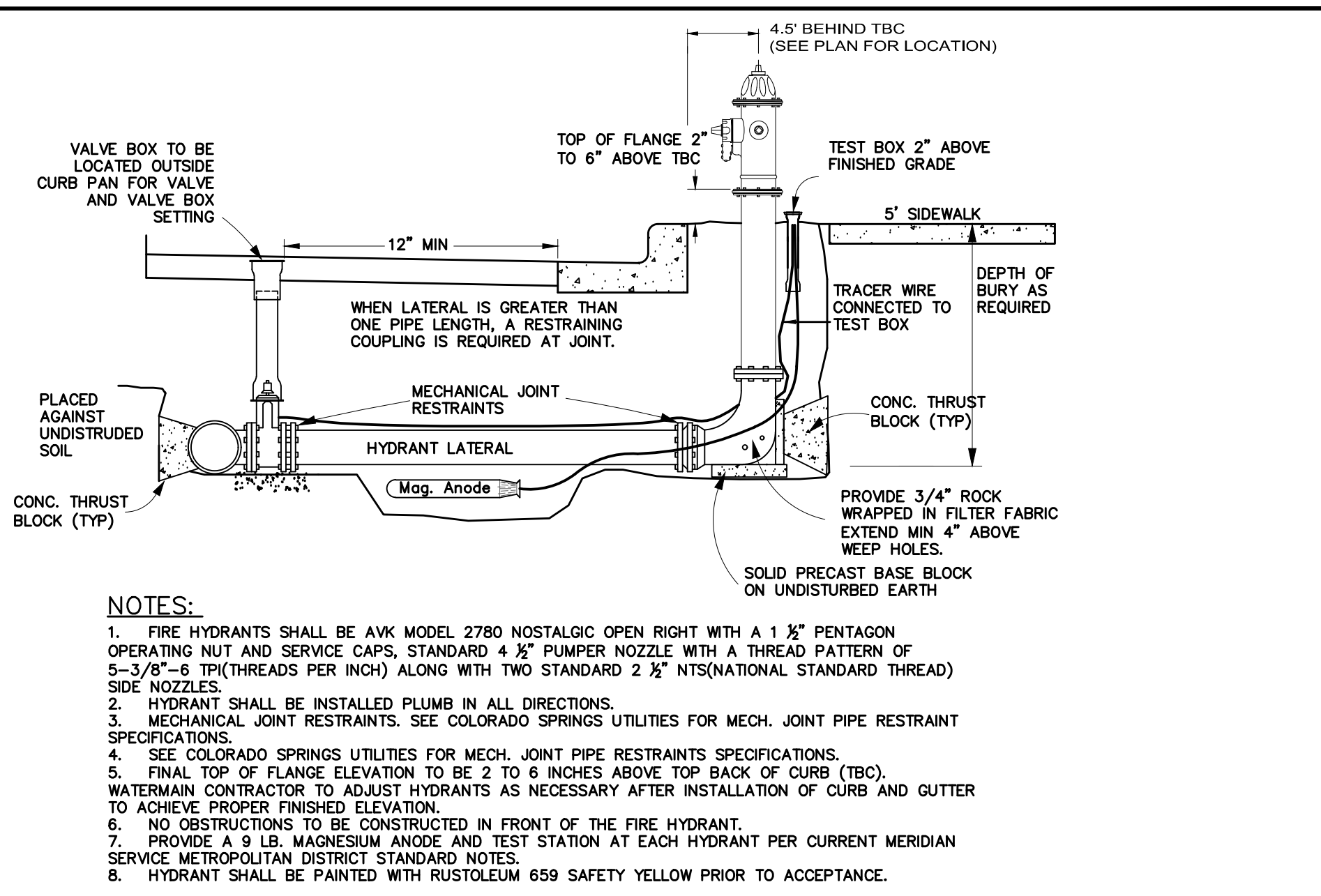
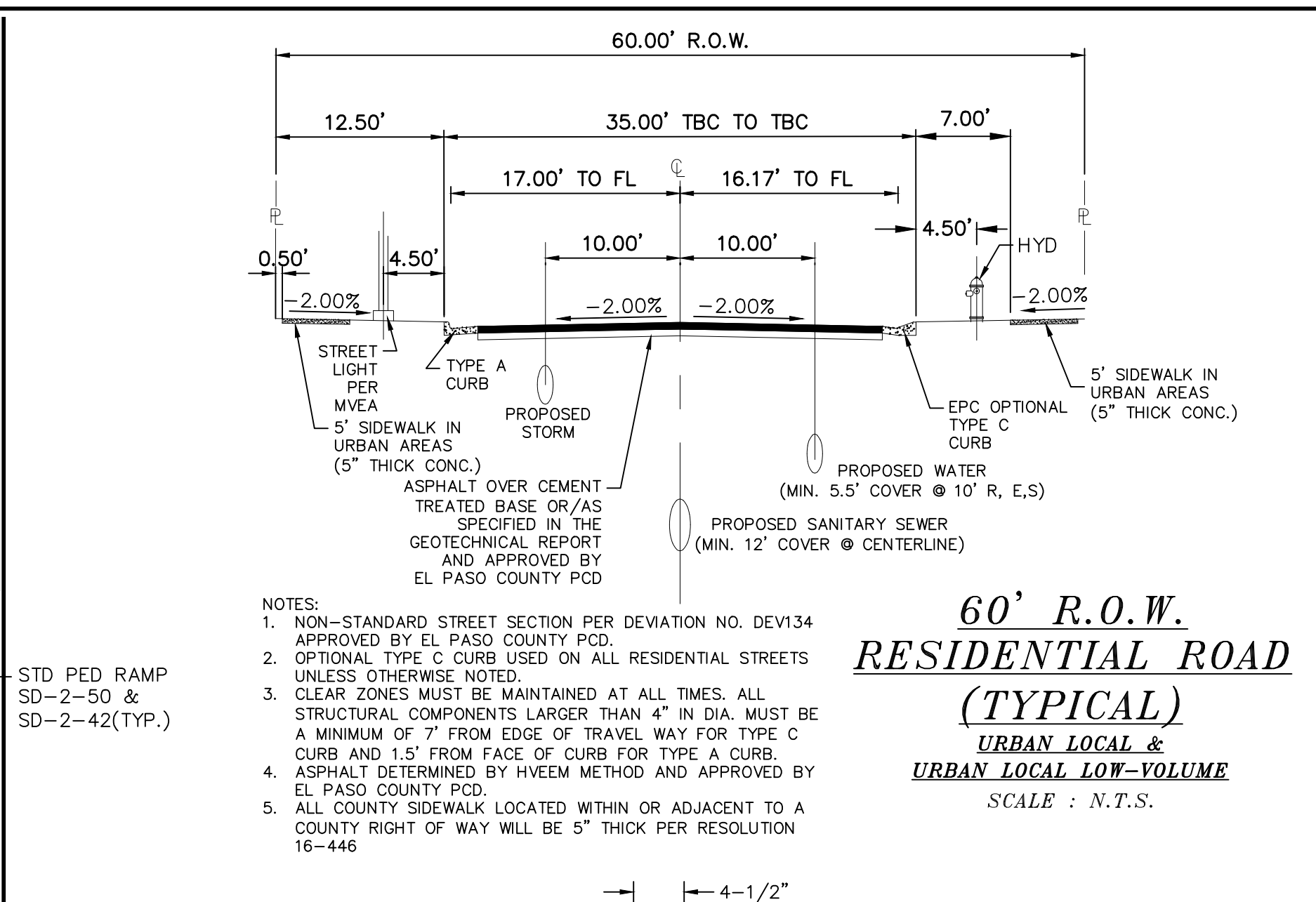
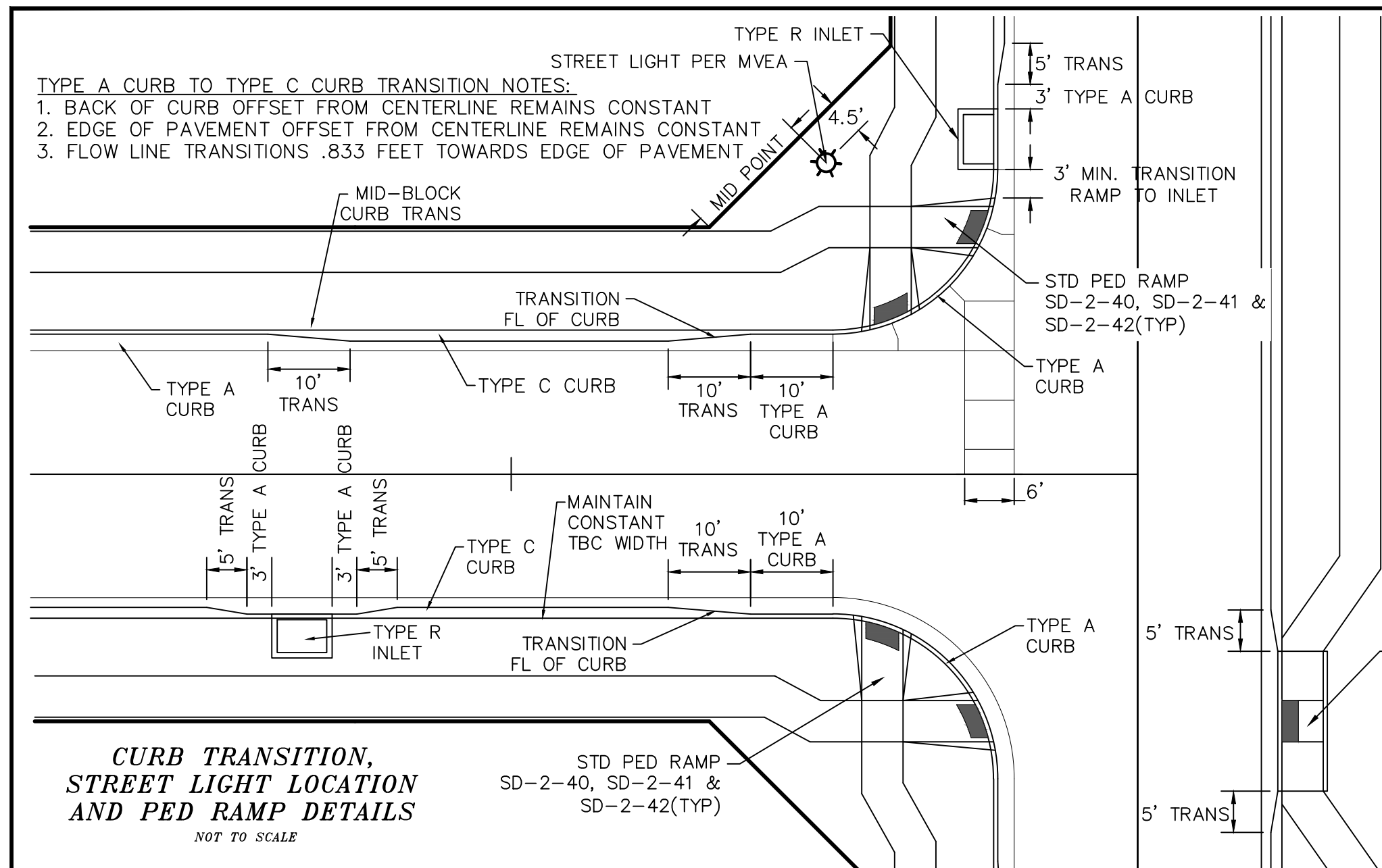
No.	Revisions	Date	Init.	Appr.	Date
1					
2					
3					
4					

TECH CONTRACTORS
11910 TOURMALINE DR. #130
FALCON, CO 80831
TELEPHONE: 719.495.7444



ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
INDEX SHEET

Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2023
	2 of 37						



LEGEND		
SYMBOL	ACRONYM	DESCRIPTION
	RCP W/FES	REINFORCED CONCRETE PIPE W/FLARED END SECTIONS
	INLET	STORM SEWER INLET BOX
	SDMH	STORM SEWER MANHOLE
	ST	STORM SEWER LINE (PUBLIC UNLESS OTHERWISE NOTED)
	SS	SANITARY SEWER MAIN
	SSMH	SANITARY SEWER MANHOLE
	WM	WATER MAIN (ALL PIPES PVC, UNLESS OTHERWISE NOTED)
	GV	WATER GATE VALVE
	BV	WATER BUTTERFLY VALVE
	BOV	WATER BLOW-OFF VALVE
	HYD ASSY	FIRE HYDRANT ASSEMBLY
	TEE W/GV	WATER TEE W/ GATE VALVES
	ATT SW	ATTACHED SIDEWALK
		STANDARD PEDESTRIAN RAMP PER SD-2-40 & M-608-1 (SH 6 OF 6)
		ANODE (CATHODIC PROTECTION)
	TS	TEST STATION
	HB	HAY BALE DAM
	SF	SILT FENCE
	EXIST	EXISTING FEATURES
		LOT NUMBERS
		CROSS PAN PER SD-2-26
	SL	STREET LIGHT PER MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA)
	R1-1	STOP SIGN - R1-1, 30x30 UNLESS OTHERWISE NOTED
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')

TECH CONTRACTORS
 11910 TOURMALINE DR. #130
 FALCON, CO 80831
 TELEPHONE: 719.495.7444

MERIDIAN RANCH

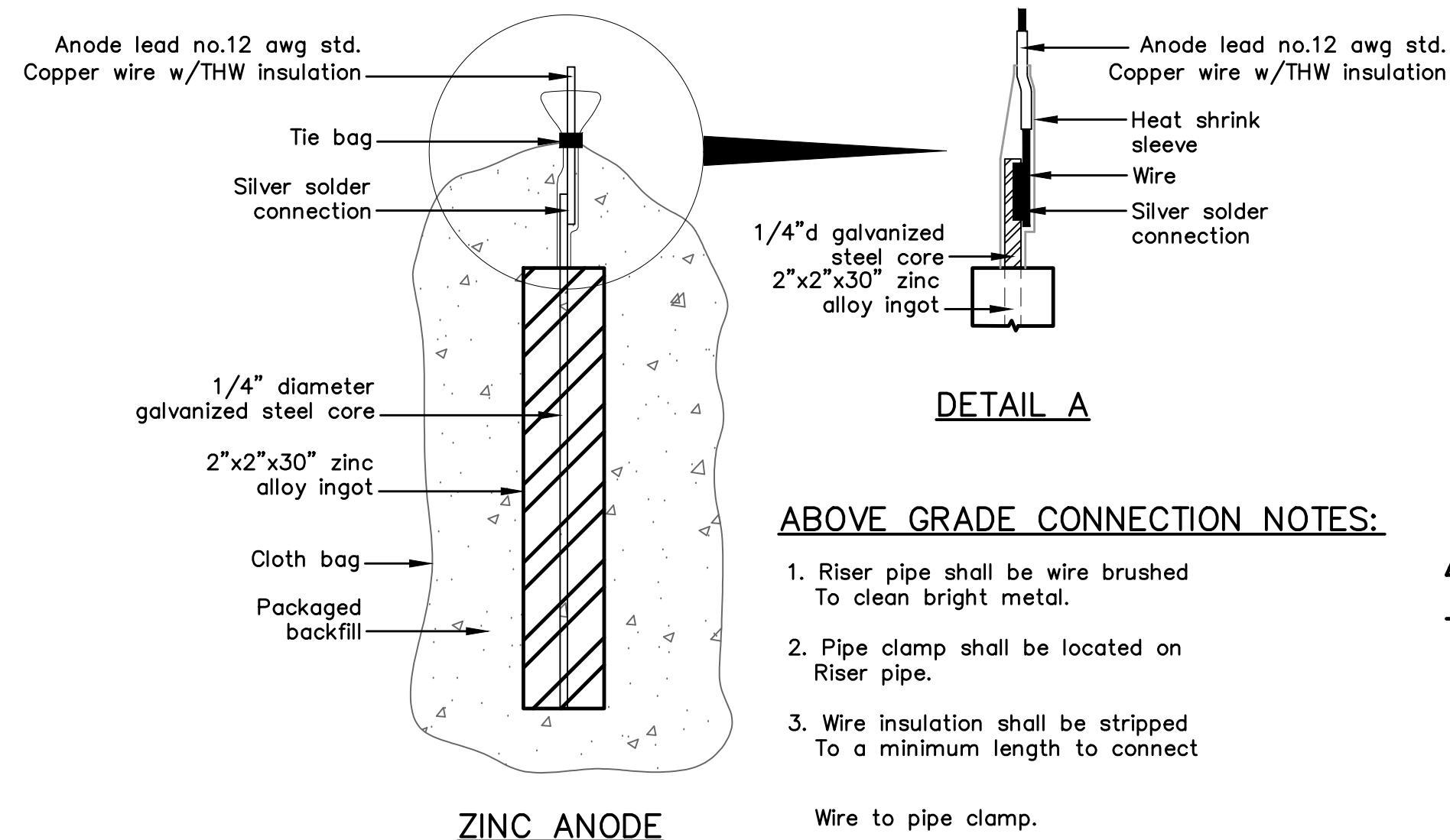
ROLLING HILLS RANCH NORTH FILING 1
 AT MERIDIAN RANCH
 STREET AND UTILITY PLANS

DETAIL SHEET

Scale AS SHOWN
 Drawn by LOG
 Checked by TJK
 Date NOVEMBER 2023

4 of 37

No. Revisions Date Init. Appr. Date



ZINC ANODE

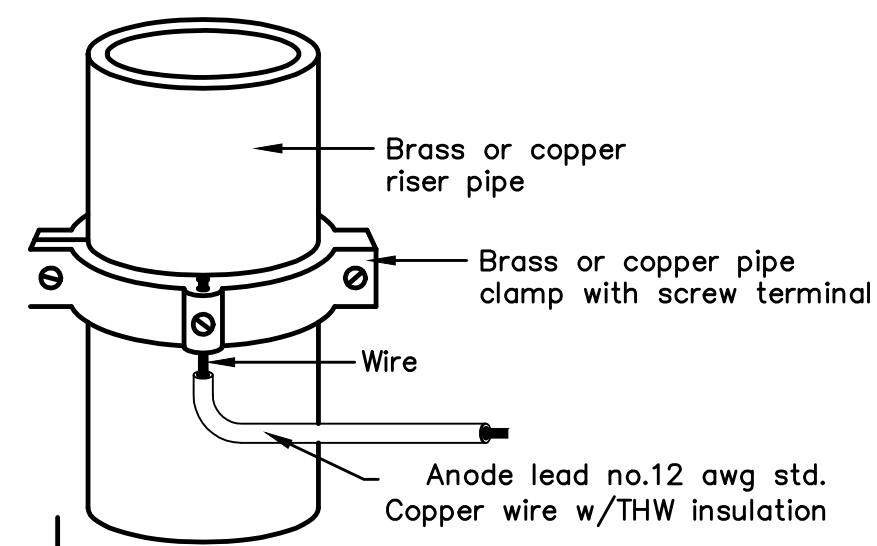
ABOVE GRADE CONNECTION NOTES:

1. Riser pipe shall be wire brushed to clean bright metal.
2. Pipe clamp shall be located on Riser pipe.
3. Wire insulation shall be stripped to a minimum length to connect to wire to pipe clamp.

PACKAGED BACKFILL COMPOSITION:

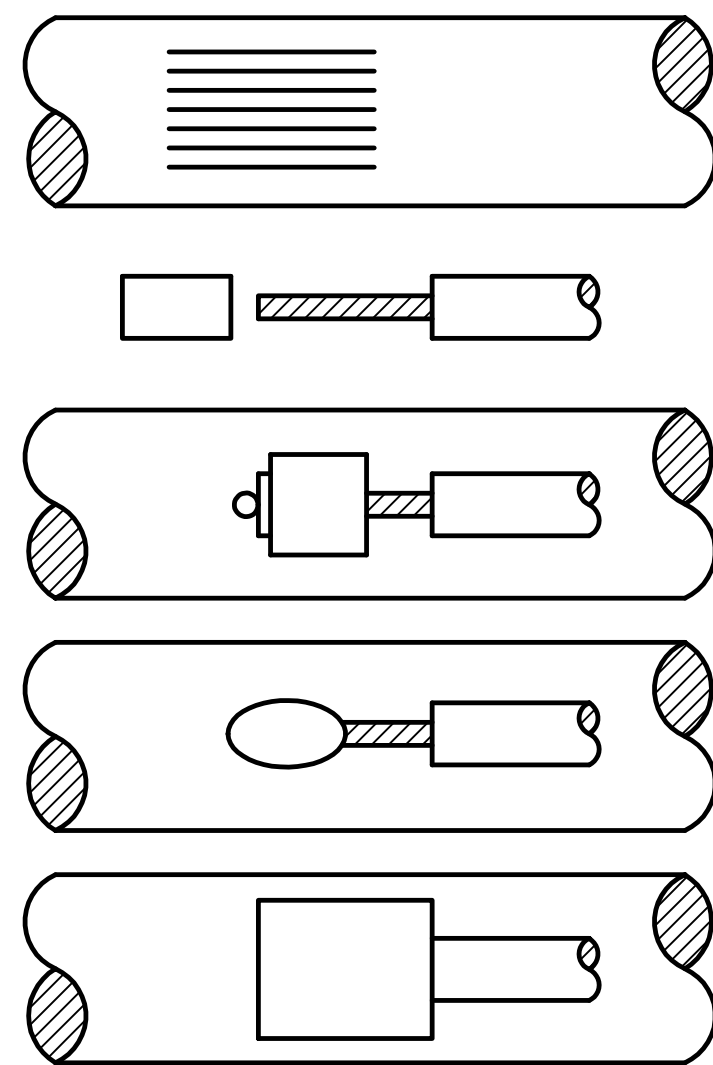
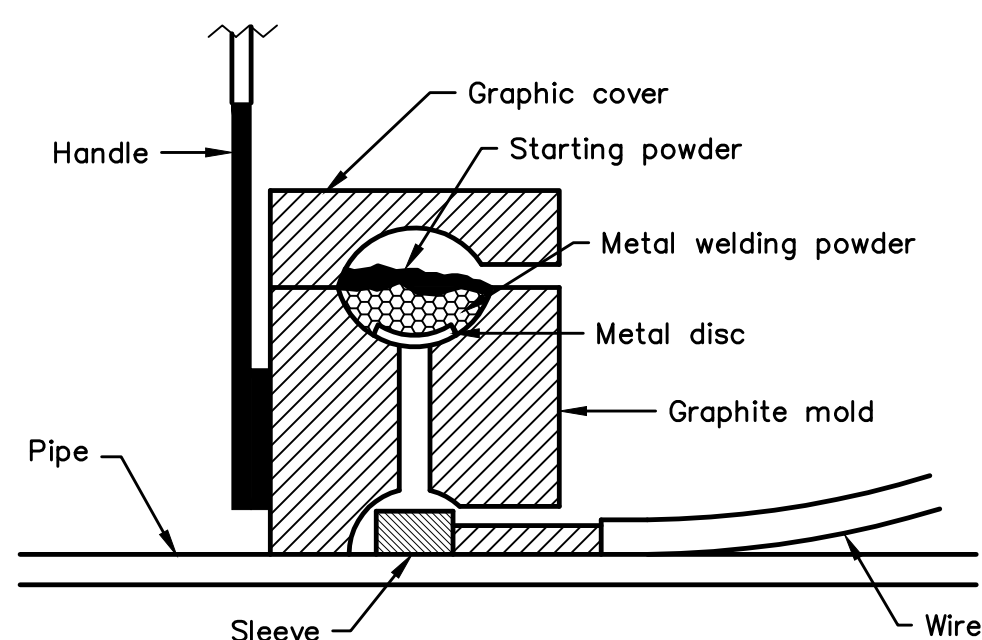
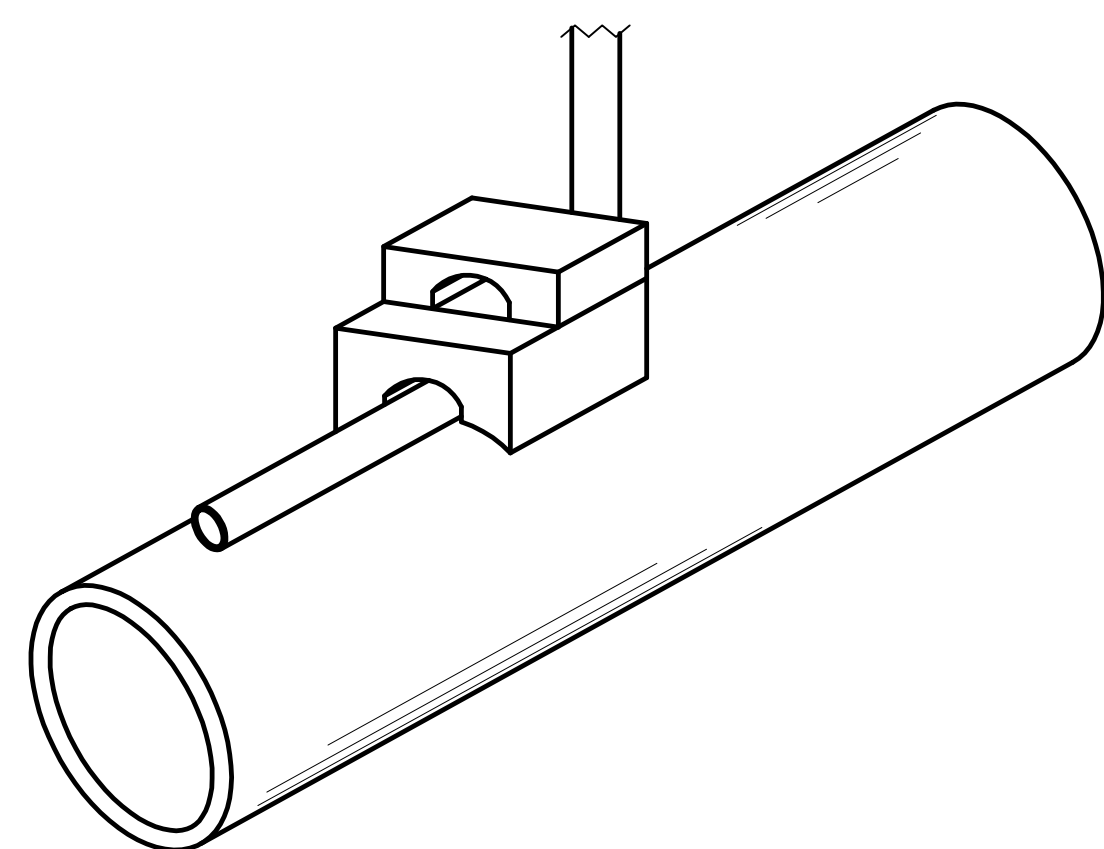
75% gypsum
20% bentonite
5% sodium sulfate

Ingot weight: 30 lbs.
Pkgd. Weight: 70 lbs. Approx.



ANODE LEAD ABOVE GRADE CONNECTION

ZINC ANODE AND CONNECTORS FOR 1" AND 2" WATER SERVICE

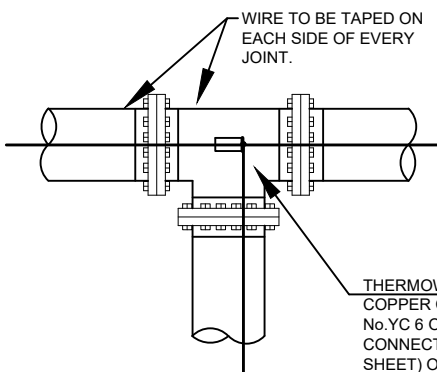
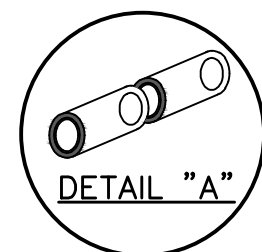
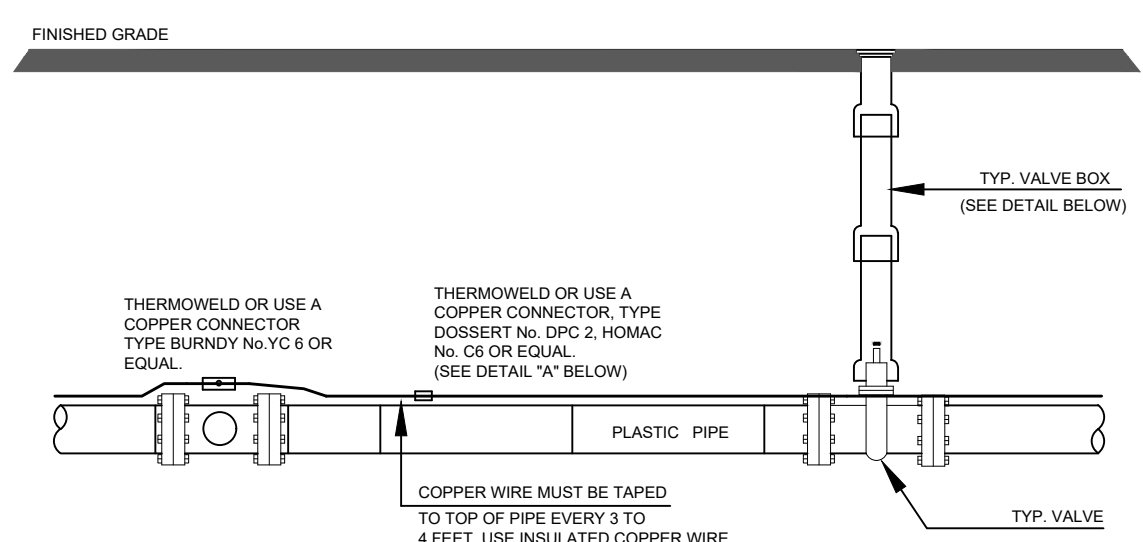


- STEP 1.** File structure connection area (3 in x 3 in) to bare shiny metal and clean.
- STEP 2.** Strip insulation from wire. Attach sleeve where required by manufacturer.
- STEP 3.** Hold mold firmly with opening away from operator and ignite with flint gun.
- STEP 4.** Remove slag from connection and peen weld for soundness.
- STEP 5.** Cover connection and exposed structure surface with a bituminous coating compound. Place plastic shield cap firmly over connection.

NOTES:

1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

EXOTHERMIC WELD PROCESS



NOTE

1. Contractor is responsible for continuity of all tracer wire.
2. Tracer wire is required on all pipes per MSMD specifications (PVC and HDPE).

FIELD INSTALLATION OF POLYETHYLENE WRAP FOR DIP PIPE AND FITTINGS.

STEP 1:

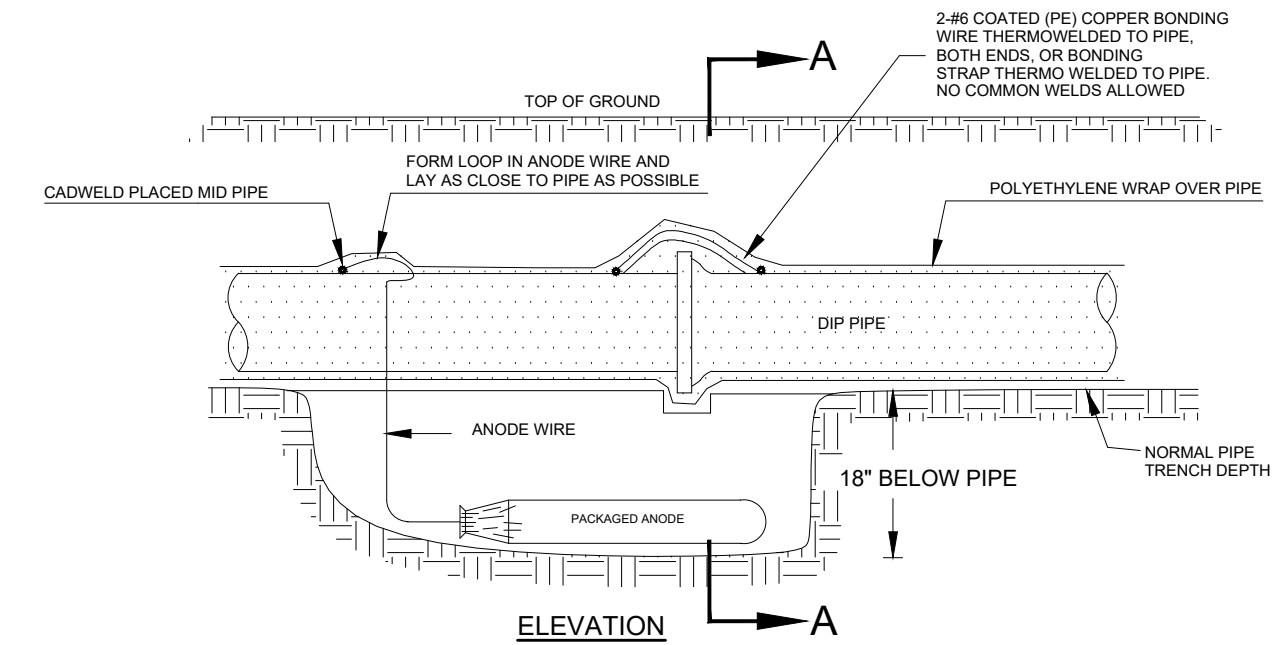
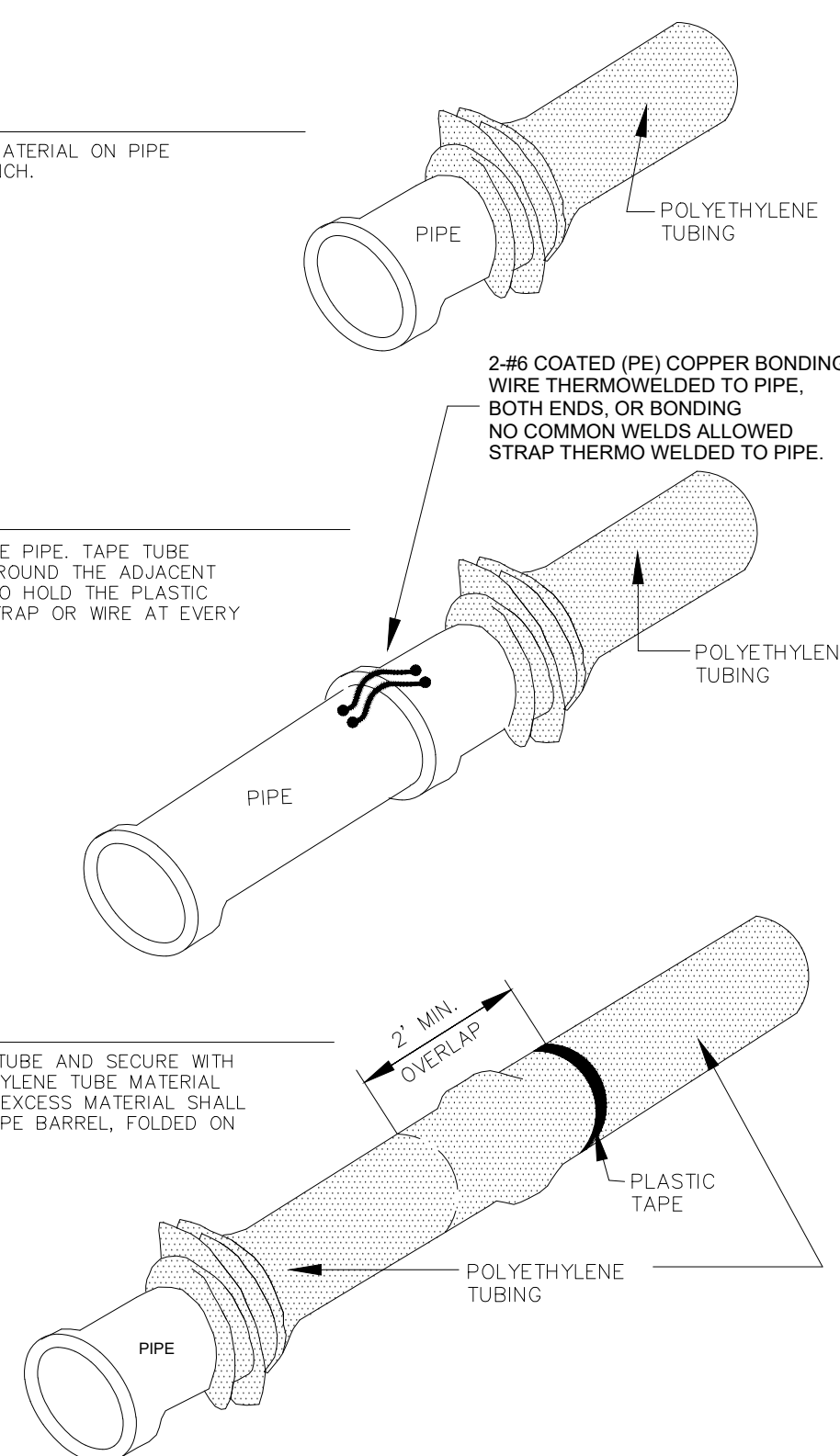
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. TAP TUBE TO END AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE. INSTALL BONDING STRAP OR WIRE AT EVERY JOINT OF PIPE PRIOR TO WRAPPING.

STEP 3:

OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.



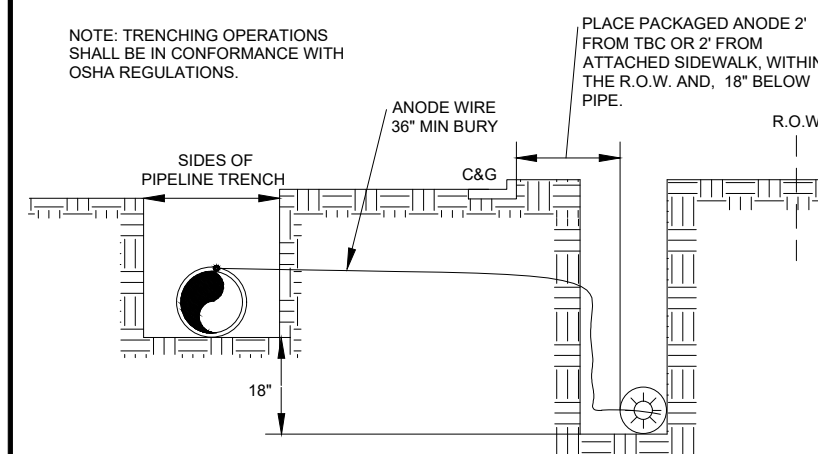
ELEVATION

Anode Design

For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet	Anode (see note 2) 17 lb
4	4.8	763	17 lb
6	6.9	531	17 lb
8	9.05	405	17 lb
12	13.20	277	17 lb
16	16	210	32 lb
20	20	169	32 lb
24	24	142	48 lb
30	30	114	48 lb
36	36	95.7	48 lb
42	42	82.4	48 lb
48	48	72.1	48 lb
54	54	64.2	48 lb

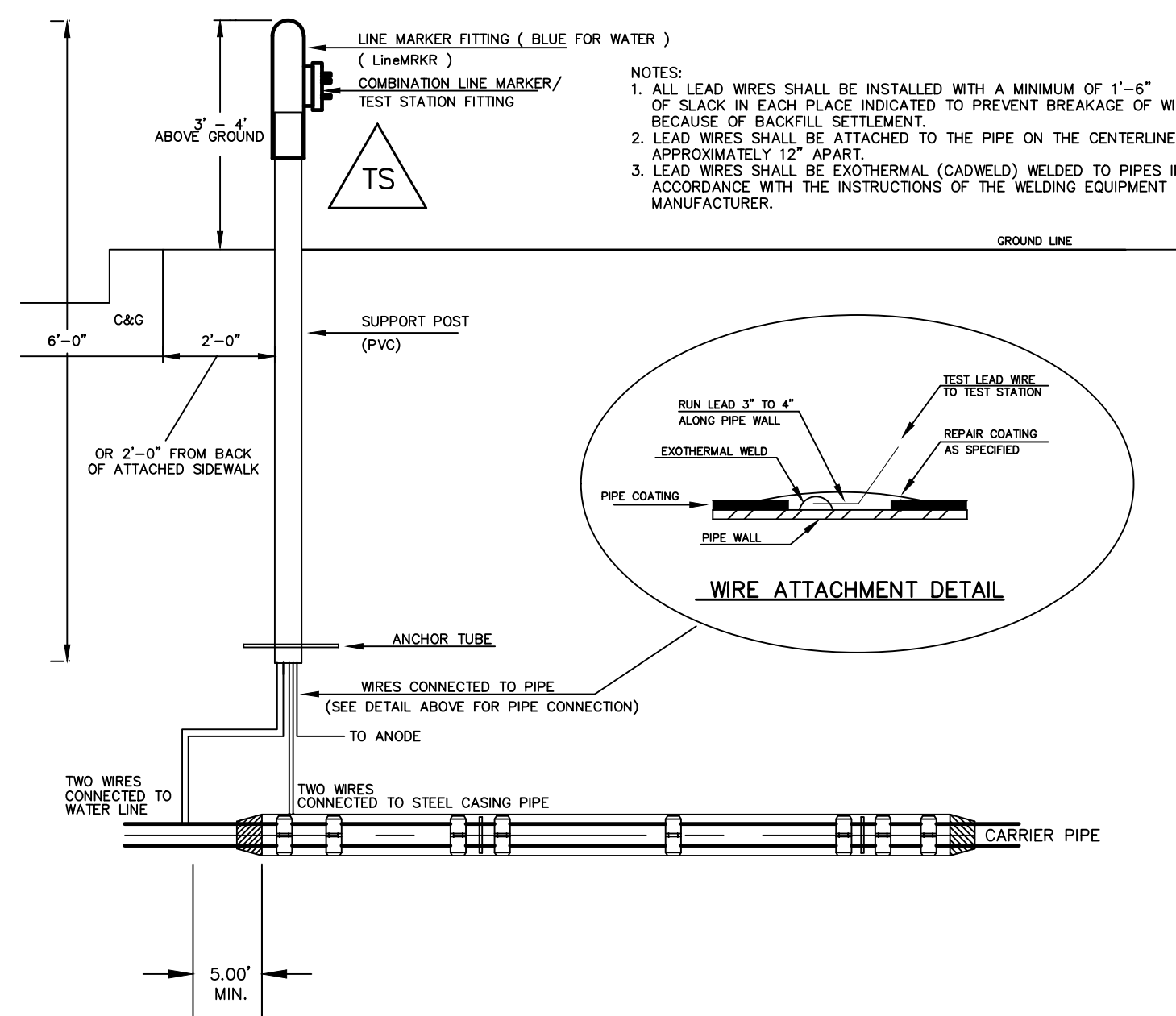
The distance from the point of the beginning to the first anode shall not exceed one half the recommended spacing.



SECTION A-A

NOTES

1. Cadweld connection to be primed and coated carefully. Packed anode should be covered with fine soil containing no rocks or dirt clumps, tamped.
2. When anodes are required with metal fittings and appurtenances together with PVC pipe installations, the anodes shall be placed and attached to the metal fittings in same manner as shown on this drawing. 9 lb anodes can be used on metal fittings when using PVC pipe.
3. Packaged anode to be wetted and covered with soil prior to backfilling.

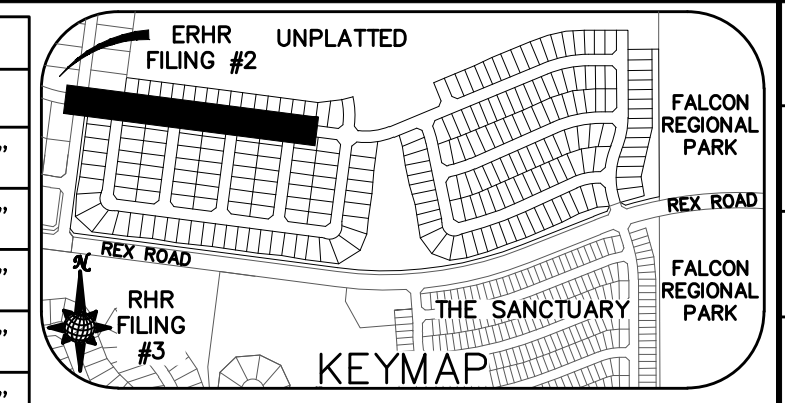
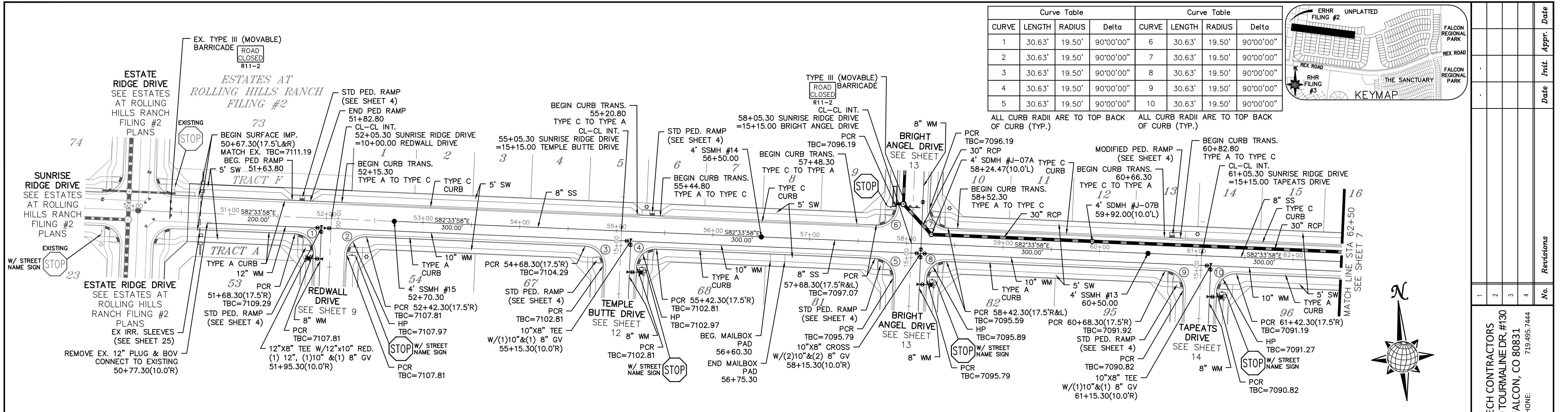


TYPICAL DETAIL FOR TEST STATION WITH STEEL SLEEVE INSTALLATION

NOTES:

- 1.) Lowerings to be cathodically protected under the direction of the MSMD Inspector, per standards. (For anode size see detail above.)
- 2.) Example can vary due to site conditions and MSMD Inspector's direction's.
- 3.) Reference Colorado Springs Utilities Standard Detail Drawing No. A 8-6 - Steel Sleeve Installation.

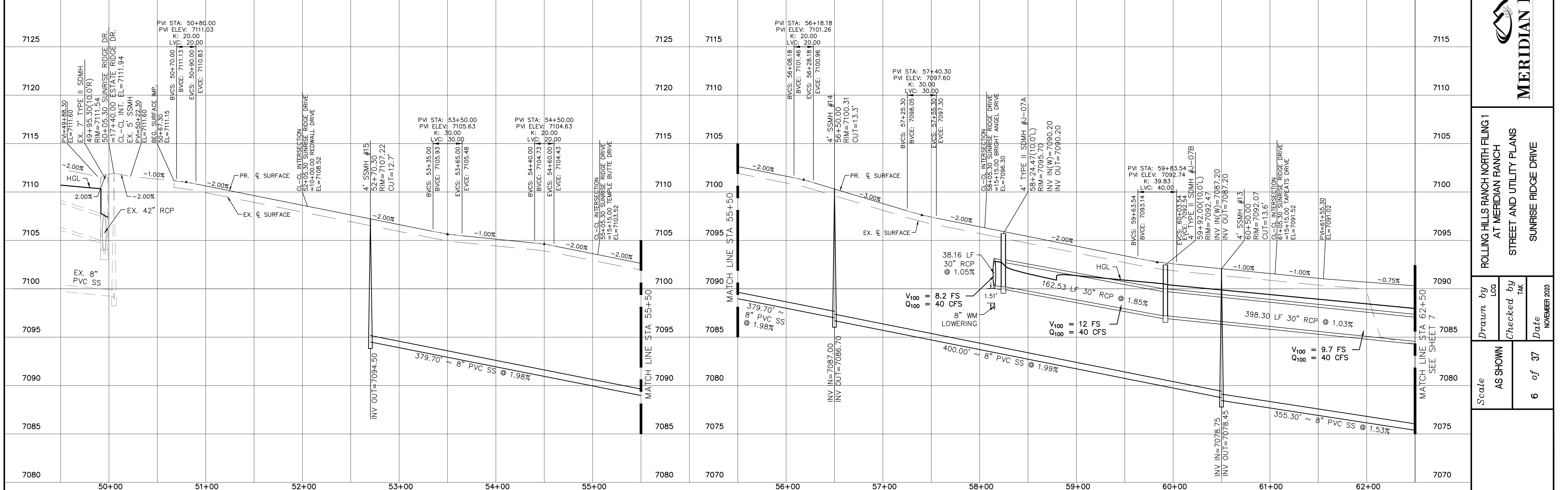
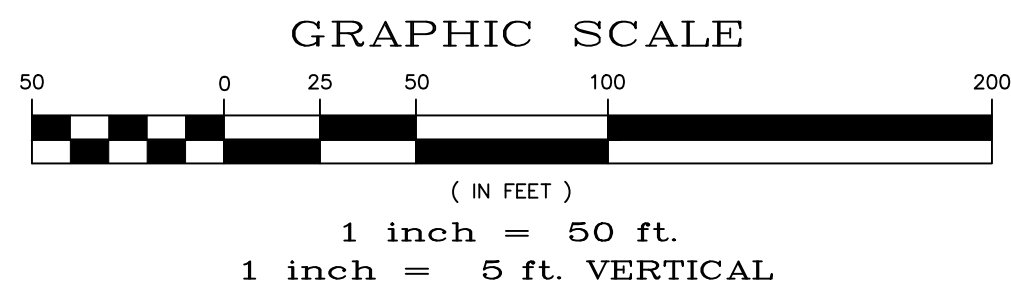
1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>							
<p>ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS DETAIL SHEET</p>							
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2023
	5 of 37						



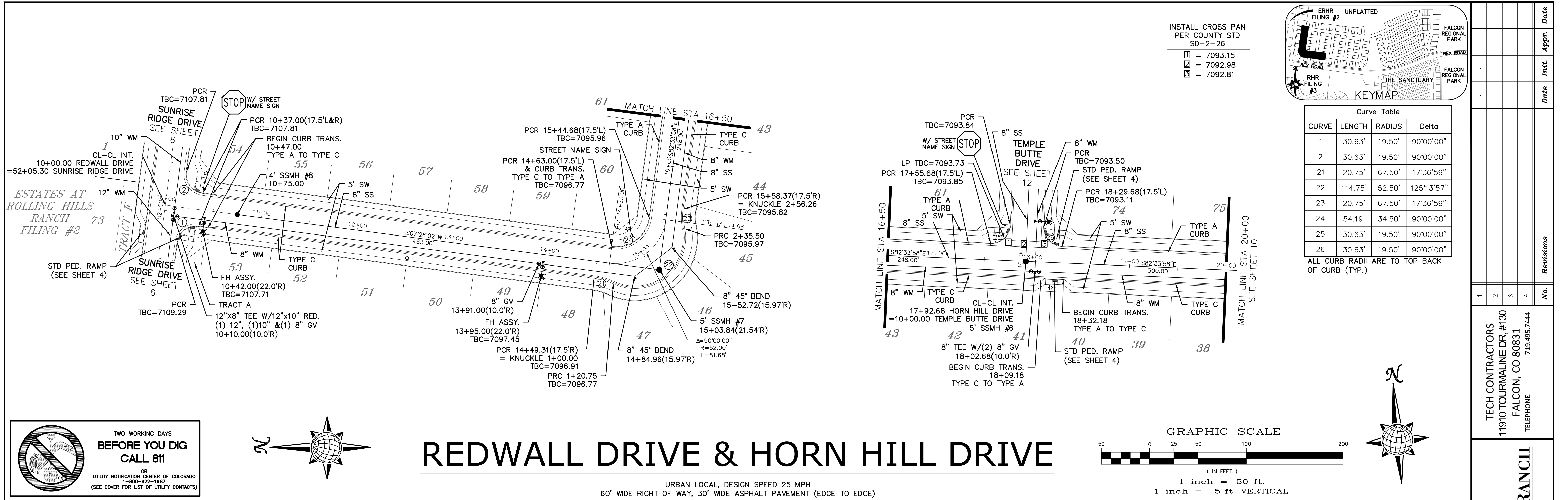
TWO WORKING DAYS BEFORE YOU DIG CALL 811
 OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1987
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

SUNRISE RIDGE DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH
 60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



1	2	3	4	No.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
MERIDIAN RANCH				
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SUNRISE RIDGE DRIVE				
Scale	AS SHOWN	Drawn by	Checked by	Date
		LOG	TAK	NOVEMBER 2023
	6 of 37			

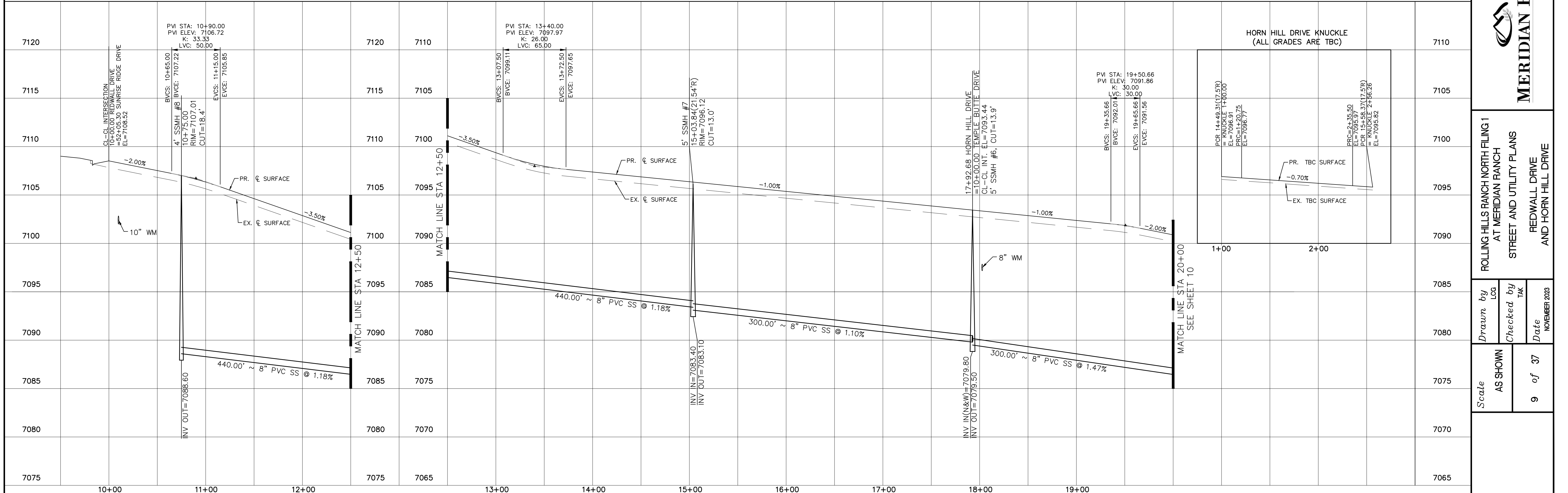


TWO WORKING DAYS BEFORE YOU DIG CALL 811

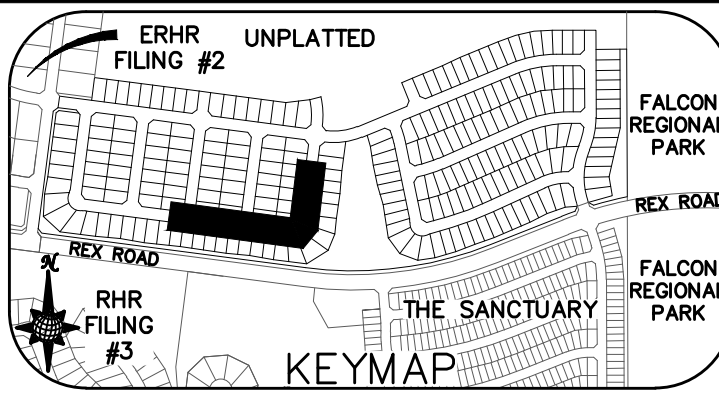
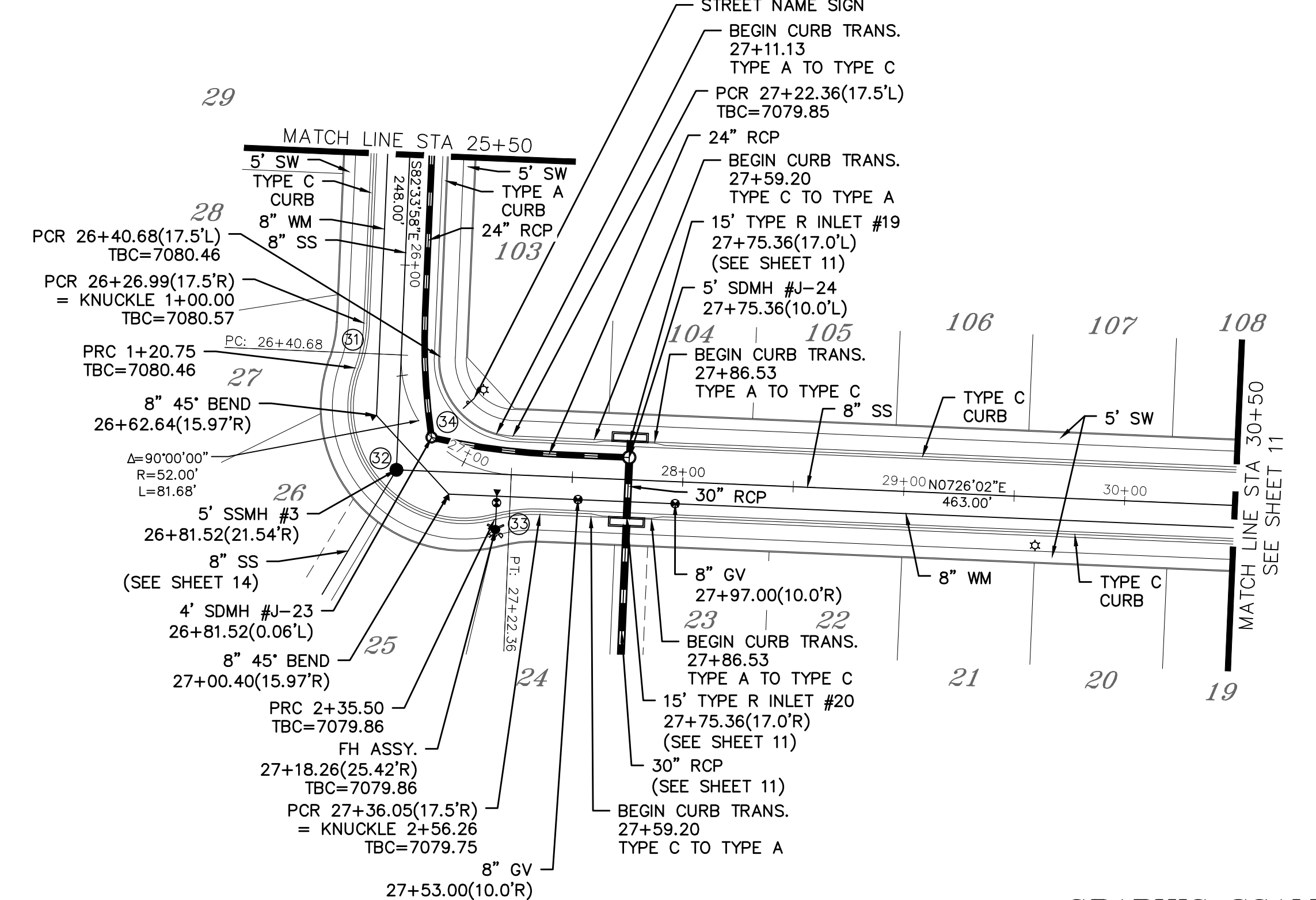
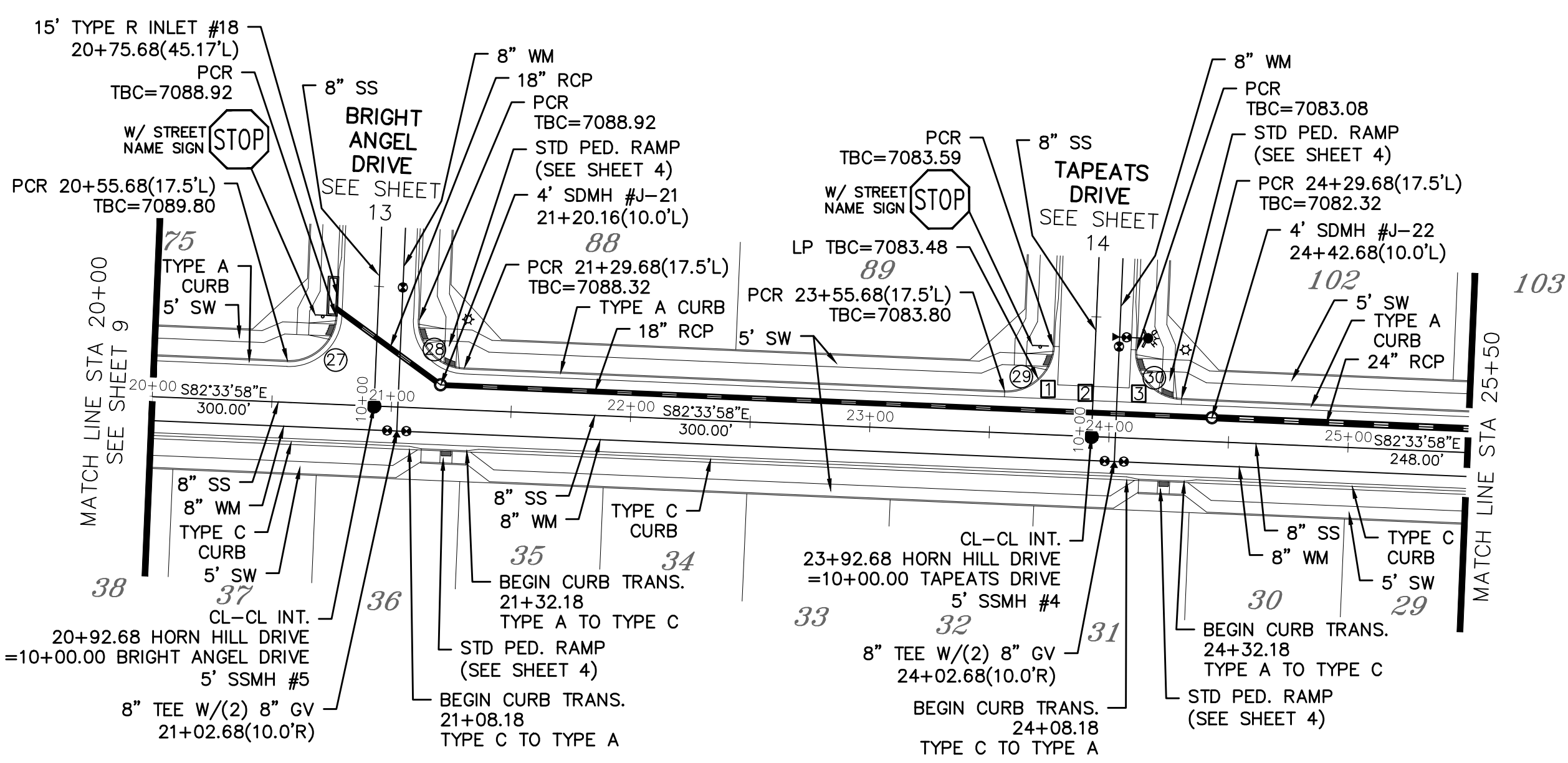
OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1987
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

REDWALL DRIVE & HORN HILL DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH
 60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



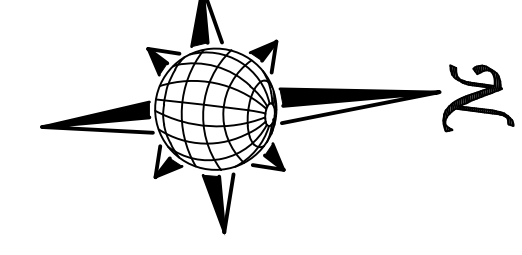
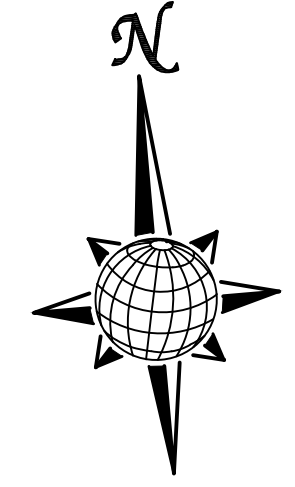
Date	Appr.	Date	Invt.
No.	Revisions		
1	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
2	 MERIDIAN RANCH		
3			
4	ROLLING HILLS RANCH NORTH FILING #1 AT MERIDIAN RANCH STREET AND UTILITY PLANS REDWALL DRIVE AND HORN HILL DRIVE		
Scale	AS SHOWN	9 of 37	Date
Drawn by	LOG	Checked by	TAK
			NOVEMBER 2023



Curve Table			
CURVE	LENGTH	RADIUS	Delta
27	30.63'	19.50'	90°00'00"
28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	30.63'	19.50'	90°00'00"
31	20.75'	67.50'	17°36'59"
32	114.75'	52.50'	125°13'57"
33	20.75'	67.50'	17°36'59"
34	54.19'	34.50'	90°00'00"

ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

- INSTALL CROSS PAN PER COUNTY STD SD-2-26
- = 7082.90
 - = 7082.56
 - = 7082.22

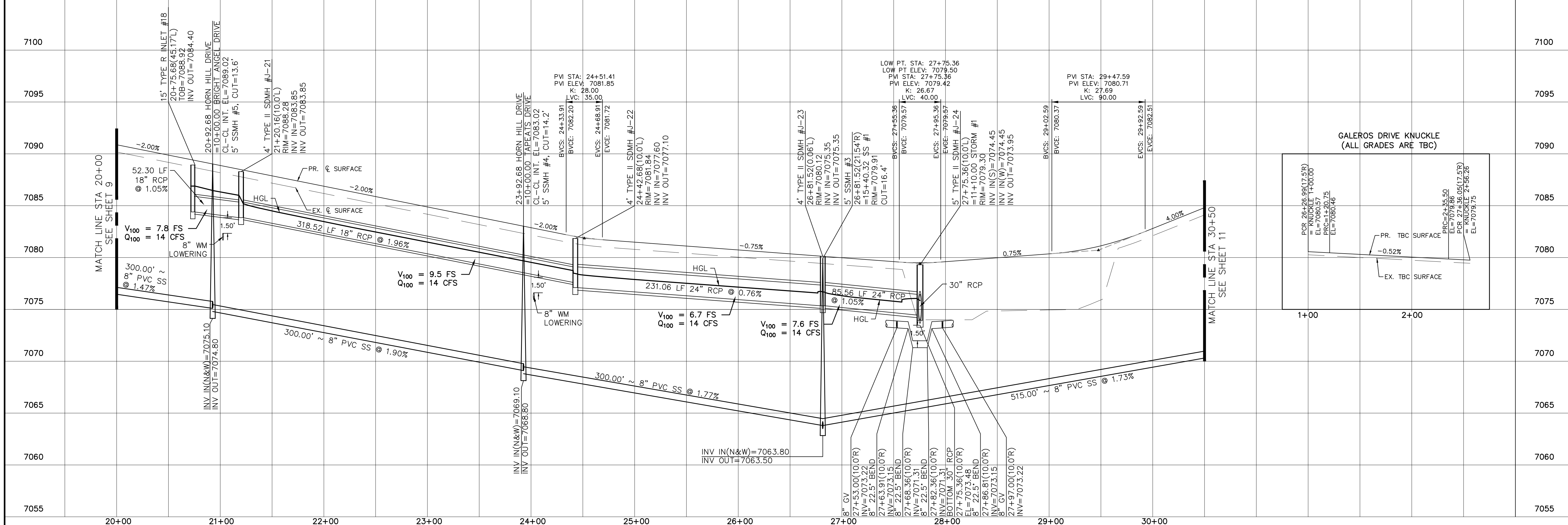
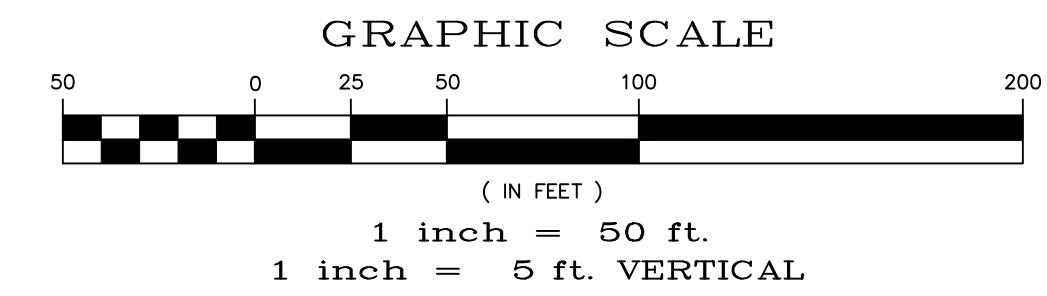


TWO WORKING DAYS BEFORE YOU DIG CALL 811

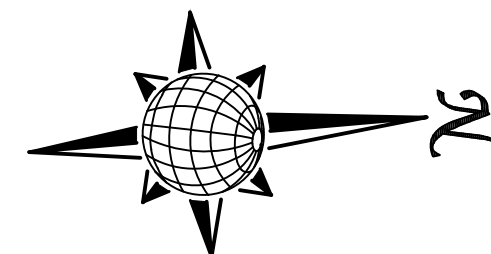
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

HORN HILL DRIVE & GALEROS DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

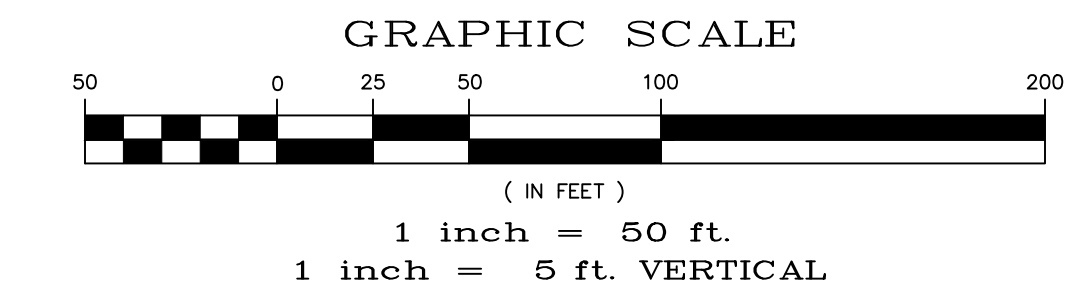


Date		Date		Date	
Appr.		Invt.		Rev.	
No.		No.		No.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
MERIDIAN RANCH					
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS HORN HILL DRIVE AND GALEROS DRIVE					
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK
	10 of 37	Date	NOVEMBER 2023		



GALEROS DRIVE

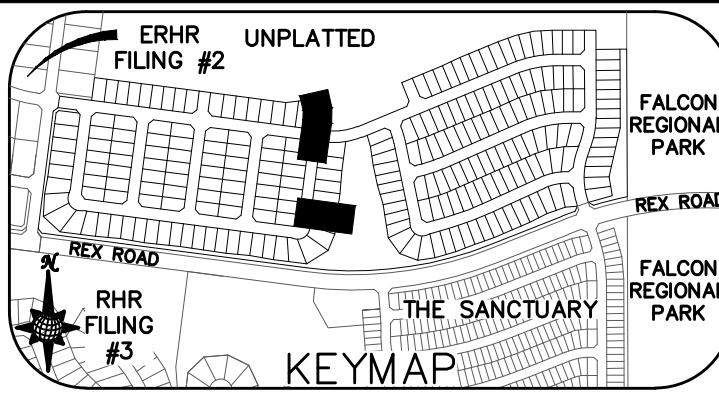
URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



NOTE: PAINT OR COAT ALL WELD AND CUT AREAS OF THE CMP PIPES.

TWO WORKING DAYS
BEFORE YOU DIG CALL 811

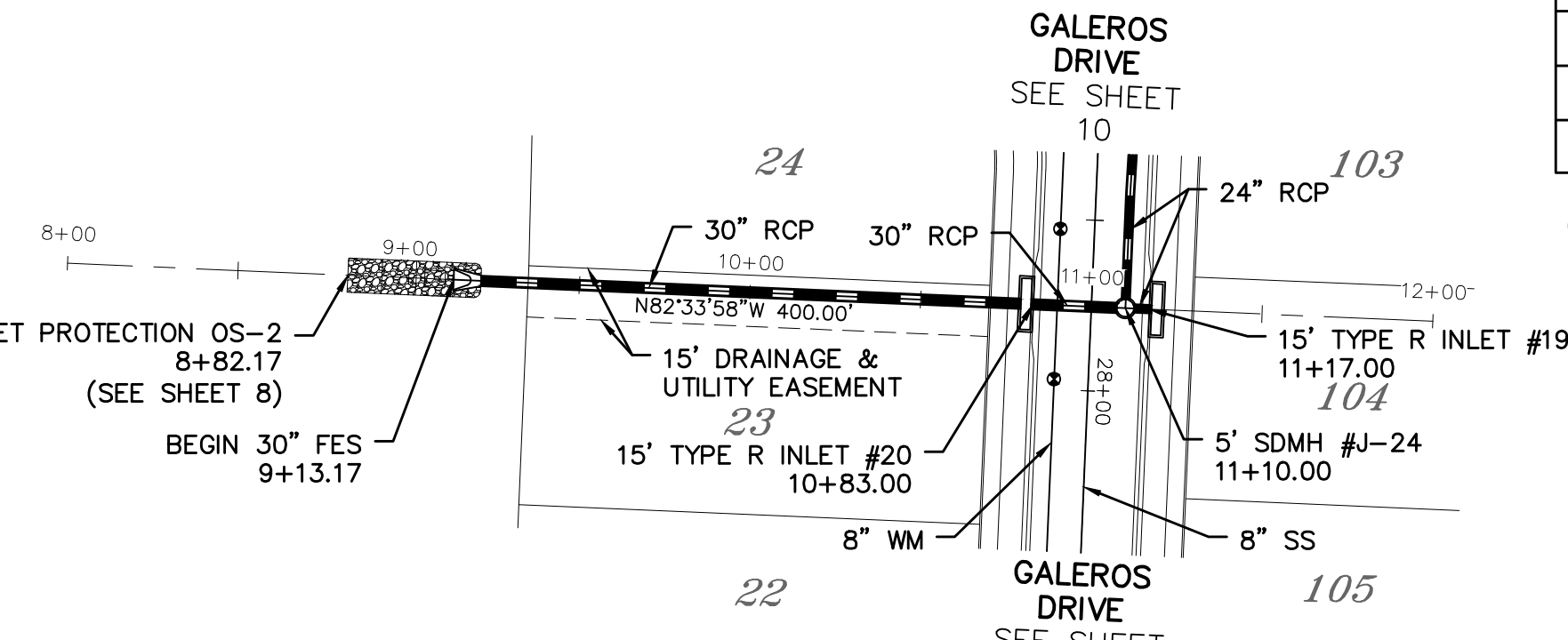
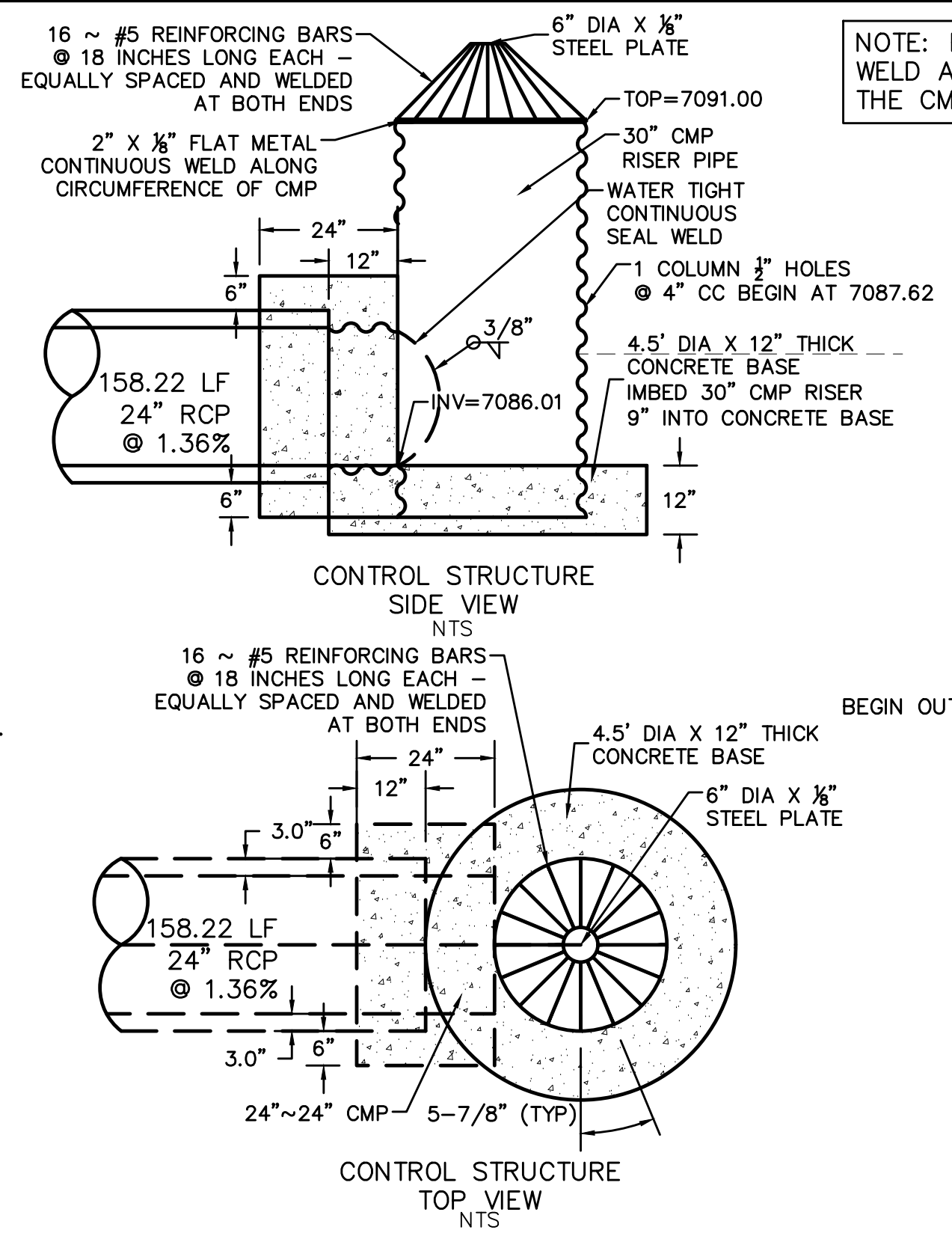
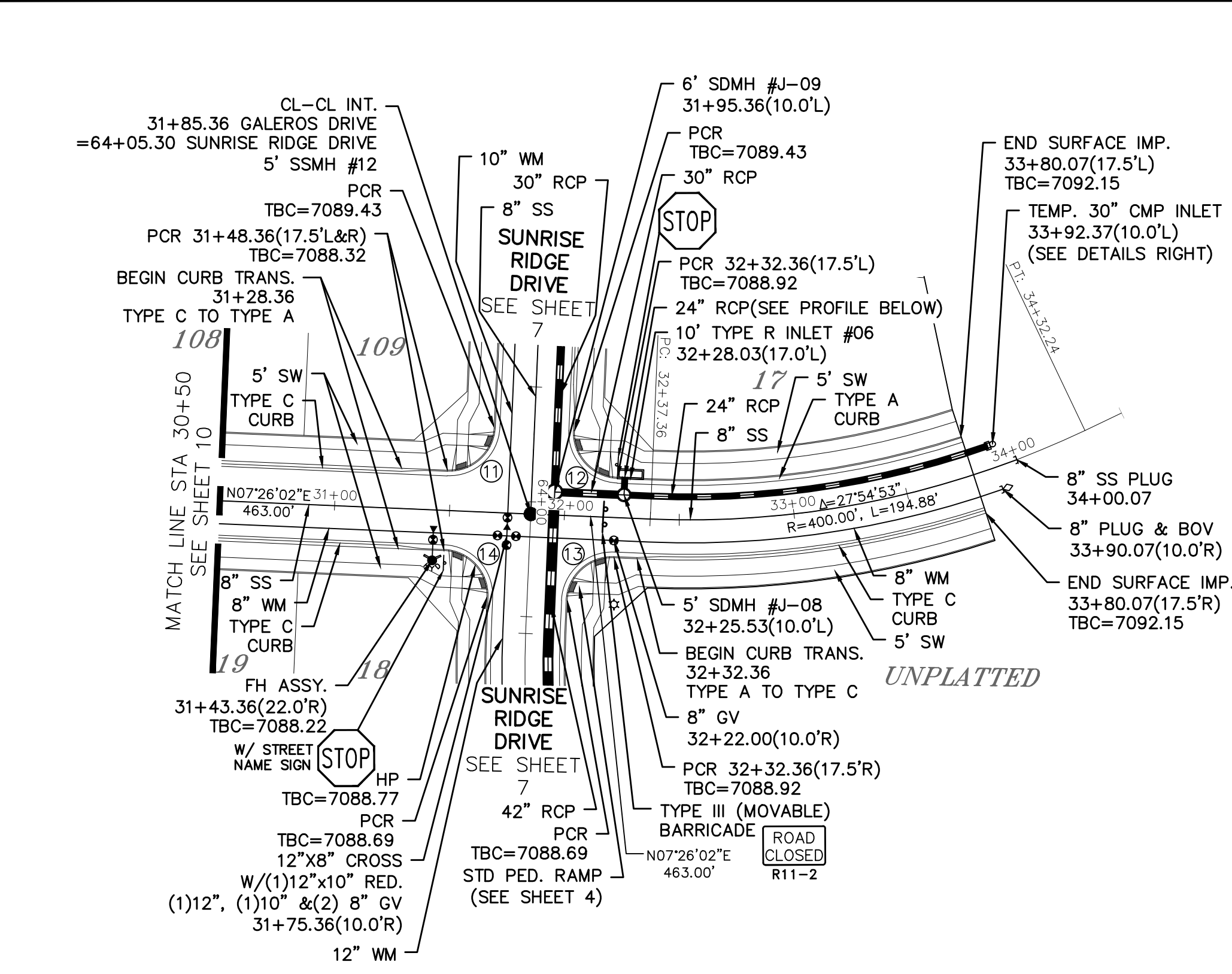
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



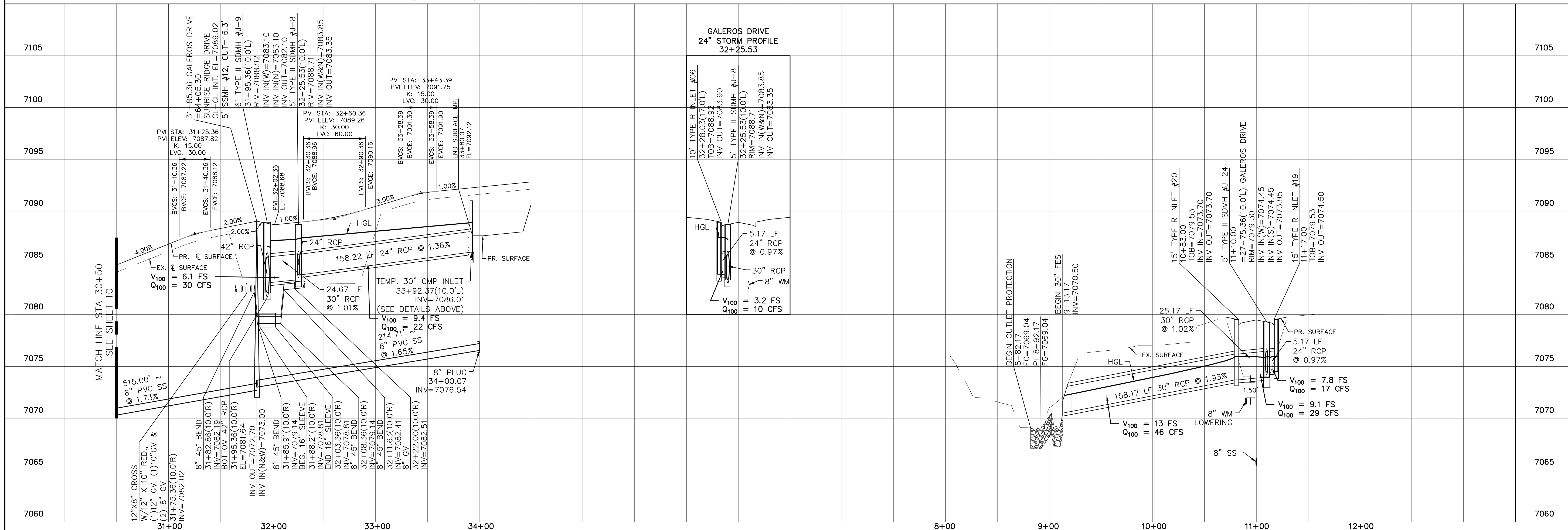
Curve Table

CURVE	LENGTH	RADIUS	Delta
11	30.63'	19.50'	90°00'00"
12	30.63'	19.50'	90°00'00"
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"

ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



STORM #2



No.	Revisions	Date	Appr.
1			
2			
3			
4			

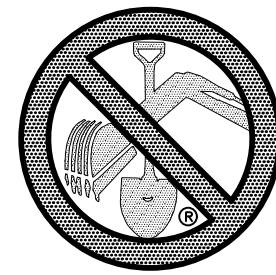
TECH CONTRACTORS
11910 TOURMALINE DR. #130
FALCON, CO 80831
TELEPHONE: 719.495.7444

MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
GALEROS DRIVE
AND STORM #2

Drawn by LOG
Checked by TJK
Date NOVEMBER 2023

Scale AS SHOWN
11 of 37



TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

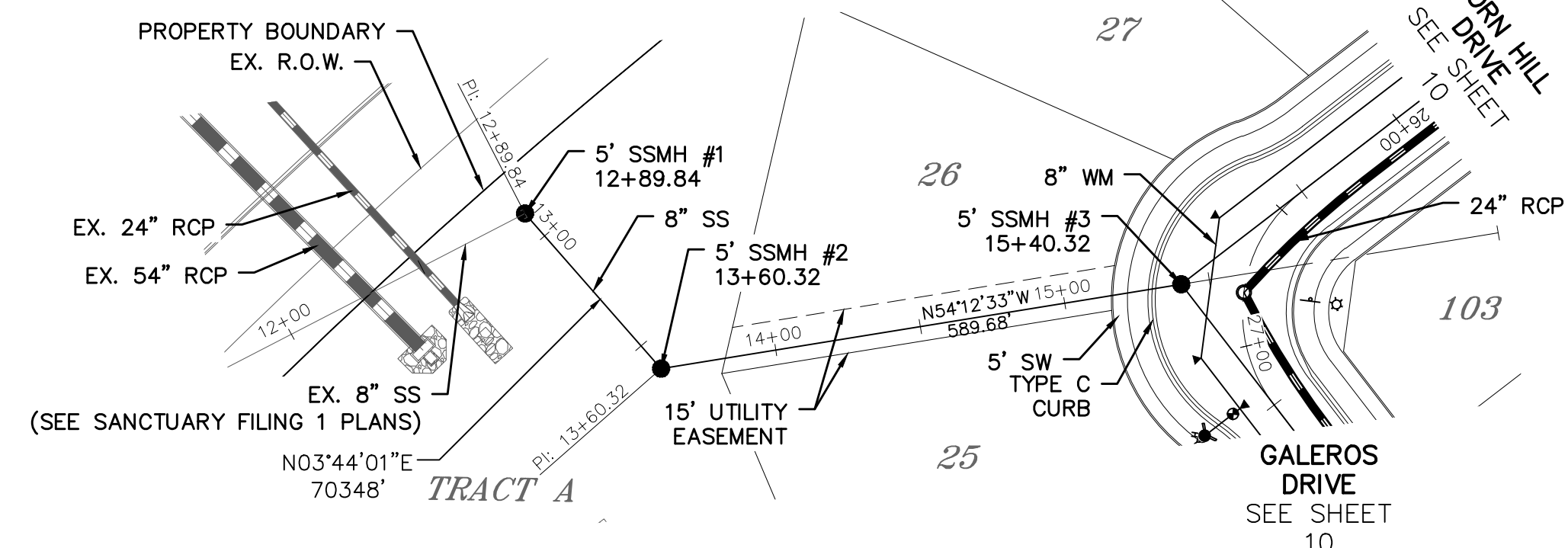
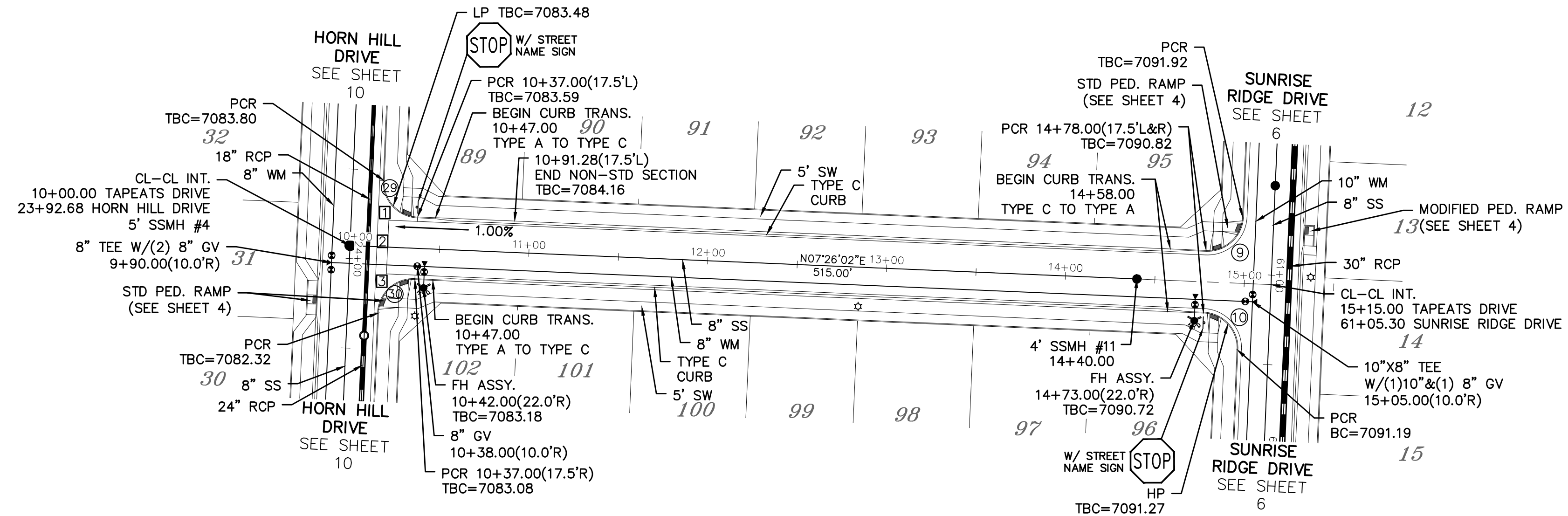
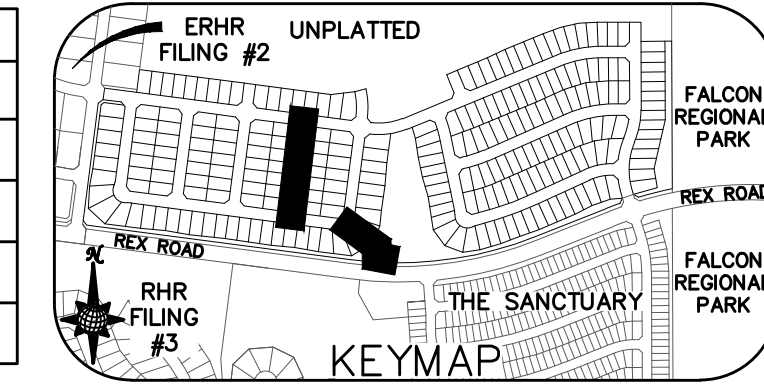
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

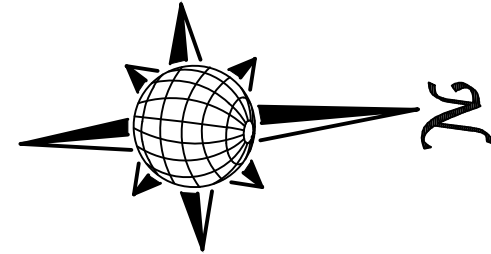
- ☐ = 7082.90
- ☑ = 7082.56
- ☒ = 7082.22

Curve Table			
CURVE	LENGTH	RADIUS	Delta
9	30.63'	19.50'	90°00'00"
10	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	30.63'	19.50'	90°00'00"

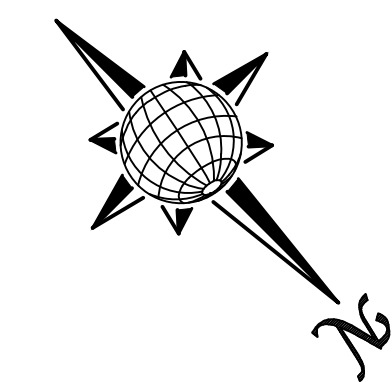
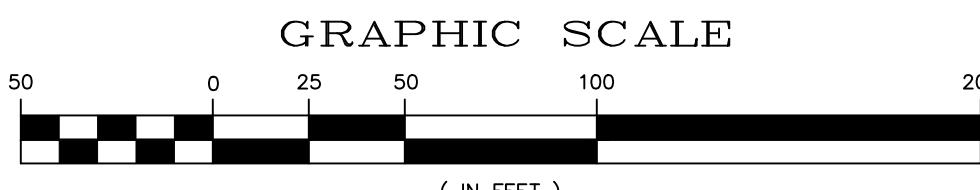
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



NOTE: CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE AND PIPE INSTALLATION



TAPEATS DRIVE



SS #1

URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

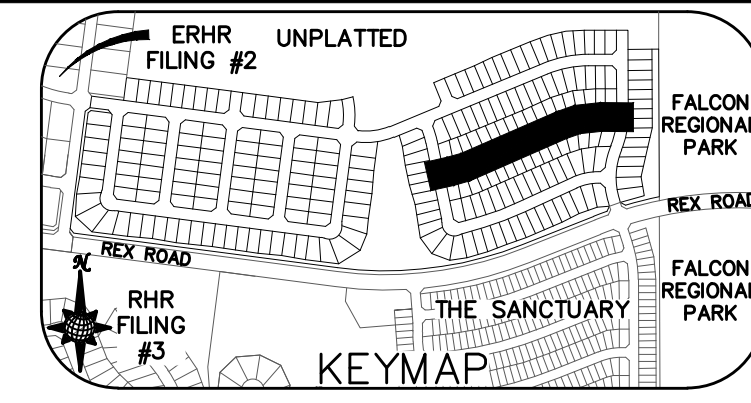
Station	Profile	Vertical Curve Data	Notes
7100	7110	PVI STA: 11+01.28 PVI ELEV: 7084.33 LVC: 20.00	
7095	7105	PVI STA: 14+44.30 PVI ELEV: 7090.11 LVC: 20.00	
7090	7100	PVI STA: 13+26.86 PVI ELEV: 7086.59 LVC: 30.00	
7085	7095	PVI STA: 14+34.30 PVI ELEV: 7089.97 LVC: 30.00	
7080	7090	PVI STA: 14+54.30 PVI ELEV: 7090.31 LVC: 30.00	
7075	7085		
7070	7080		
7065	7075		
7060	7070		
7055	7065		
7050	7060		

NOTE: CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE AND PIPE INSTALLATION

1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>							
<p>ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS TAPEATS DRIVE AND SS #1</p>							
Scale		AS SHOWN		14 of 37		NOVEMBER 2023	
Drawn by		LOG		Checked by		TAK	
Date		NOVEMBER 2023		Date		NOVEMBER 2023	

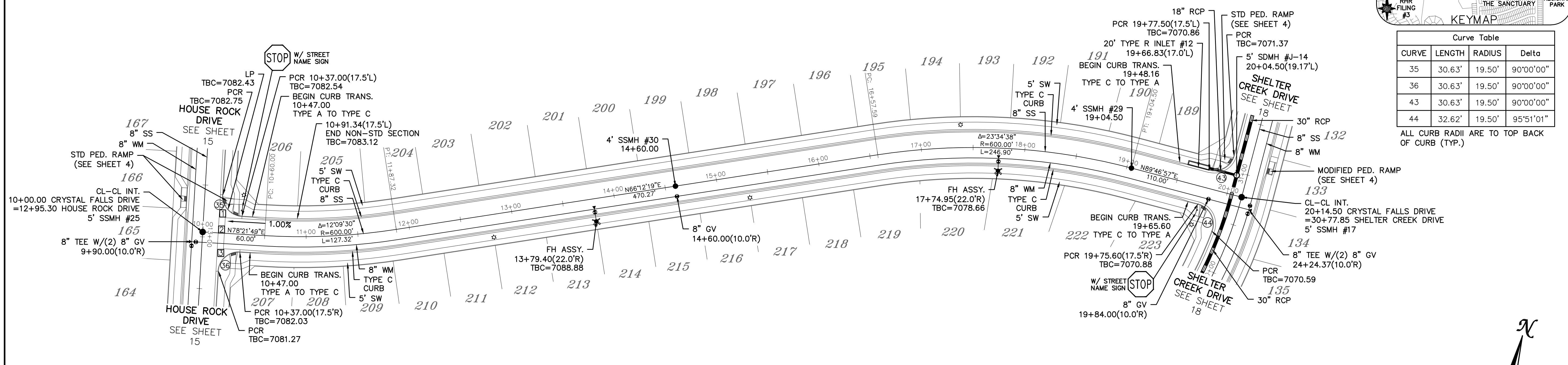
INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

1 = 7081.85
2 = 7081.51
3 = 7081.17



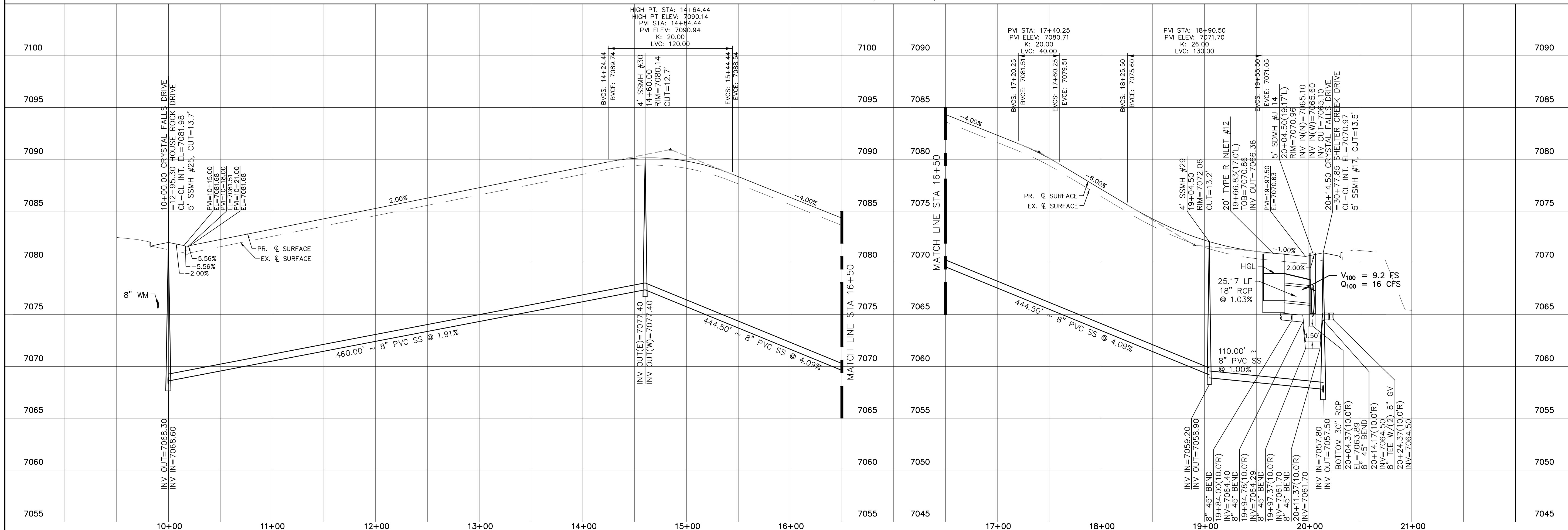
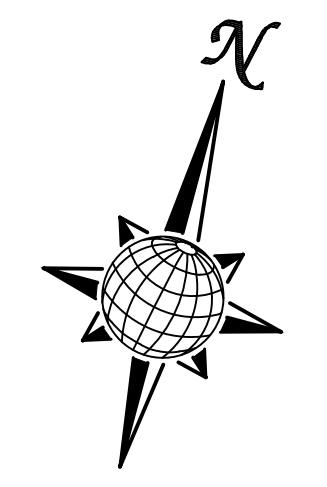
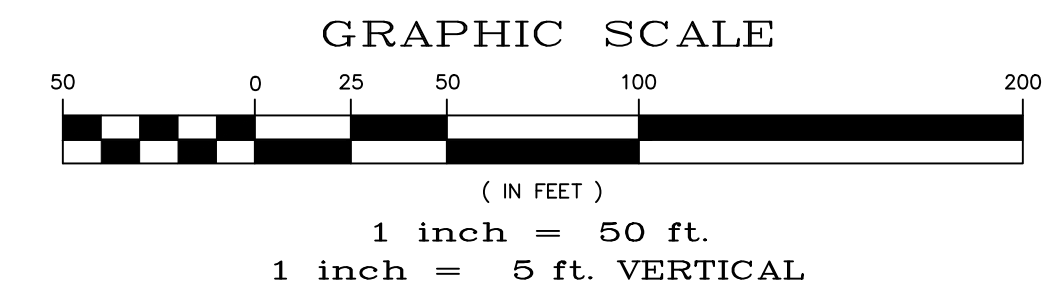
Curve Table			
CURVE	LENGTH	RADIUS	Delta
35	30.63'	19.50'	90°00'00"
36	30.63'	19.50'	90°00'00"
43	30.63'	19.50'	90°00'00"
44	32.62'	19.50'	95°51'01"

ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

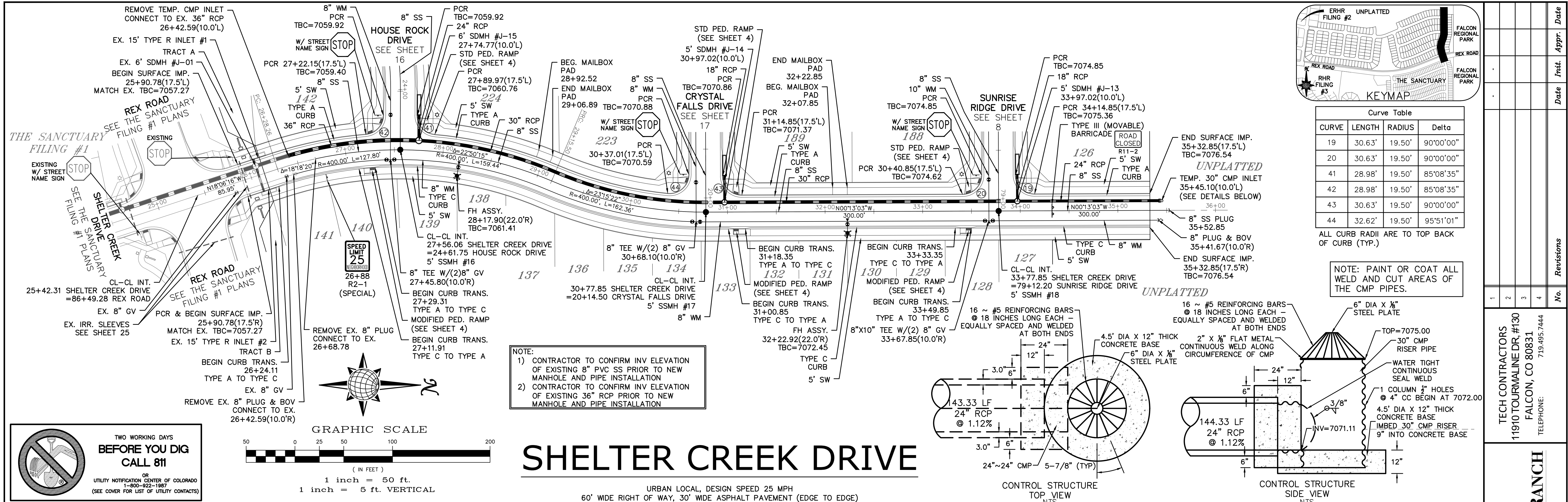


CRYSTAL FALLS DRIVE

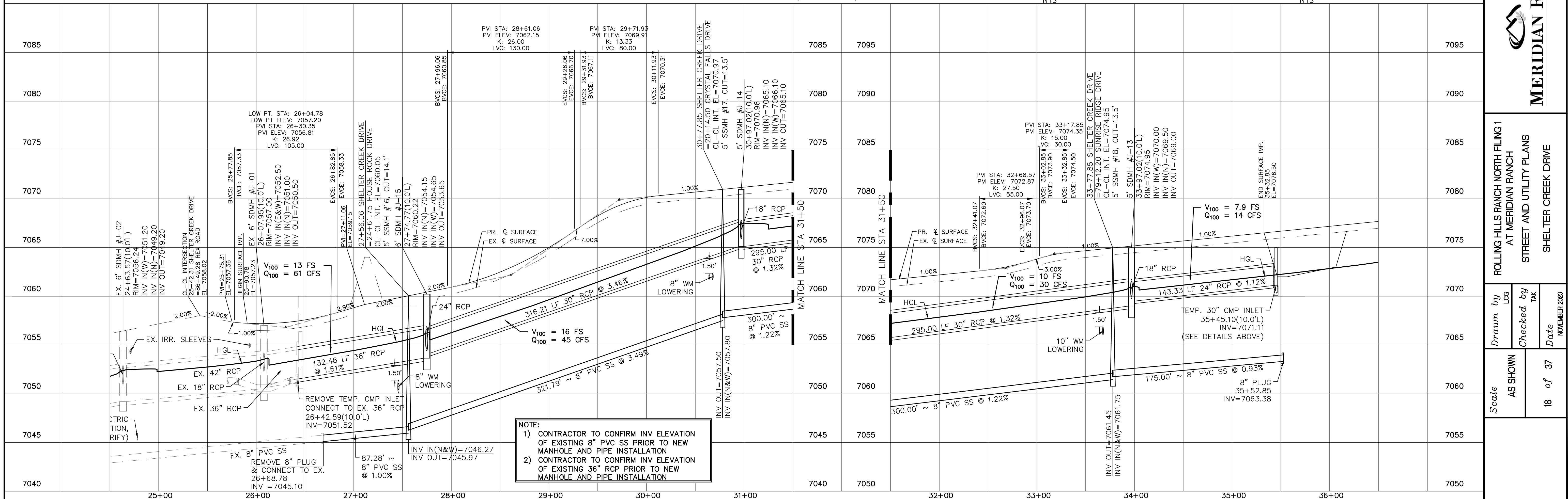
URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



Date	Appr.	Date	Revis.	No.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
MERIDIAN RANCH				
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS CRYSTAL FALLS DRIVE				
Scale	Drawn by	Checked by	Date	
AS SHOWN	LOG	TAK	NOVEMBER 2023	
17 of 37				



SHELTER CREEK DRIVE



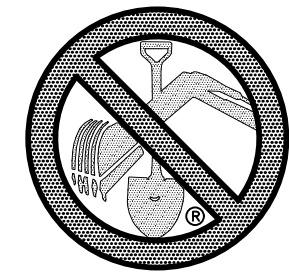
No.	Revisions	Date	Appr.
1			
2			
3			
4			

TECH CONTRACTORS
 11910 TOURMALINE DR. #130
 FALCON, CO 80831
 TELEPHONE: 719.495.7444

MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1
 AT MERIDIAN RANCH
 STREET AND UTILITY PLANS
 SHELTER CREEK DRIVE

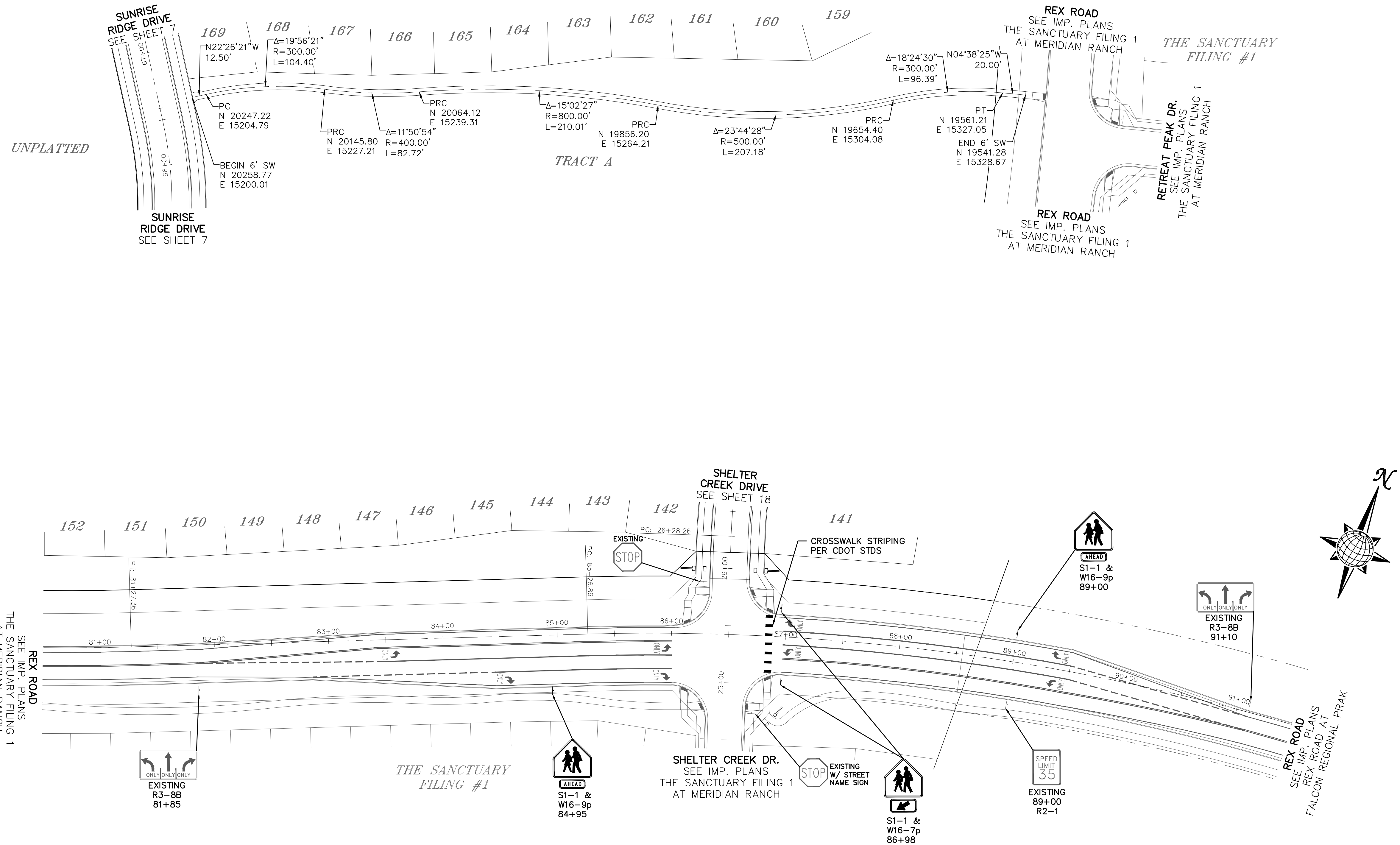
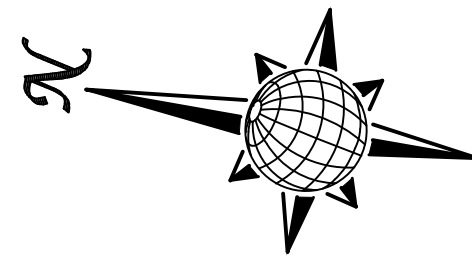
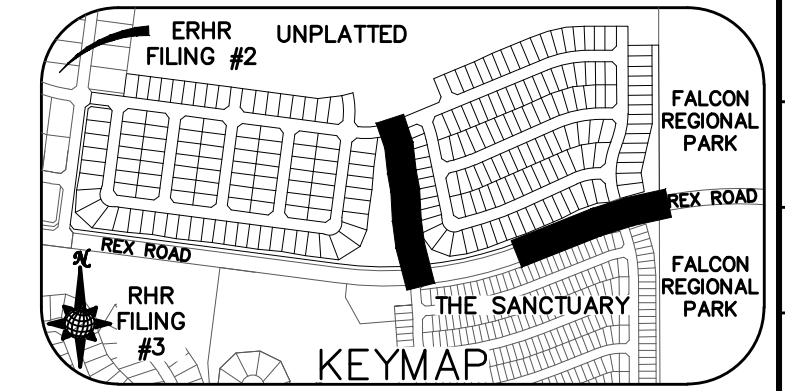
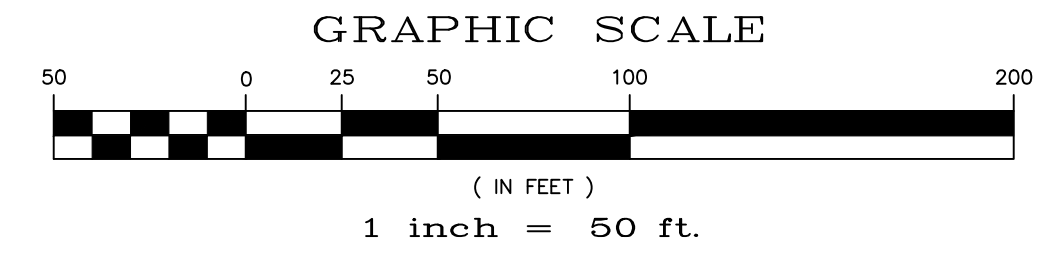
PCD PROJECT NO. SF-XX-XX



TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

SIDEWALK & STRIPING PLAN



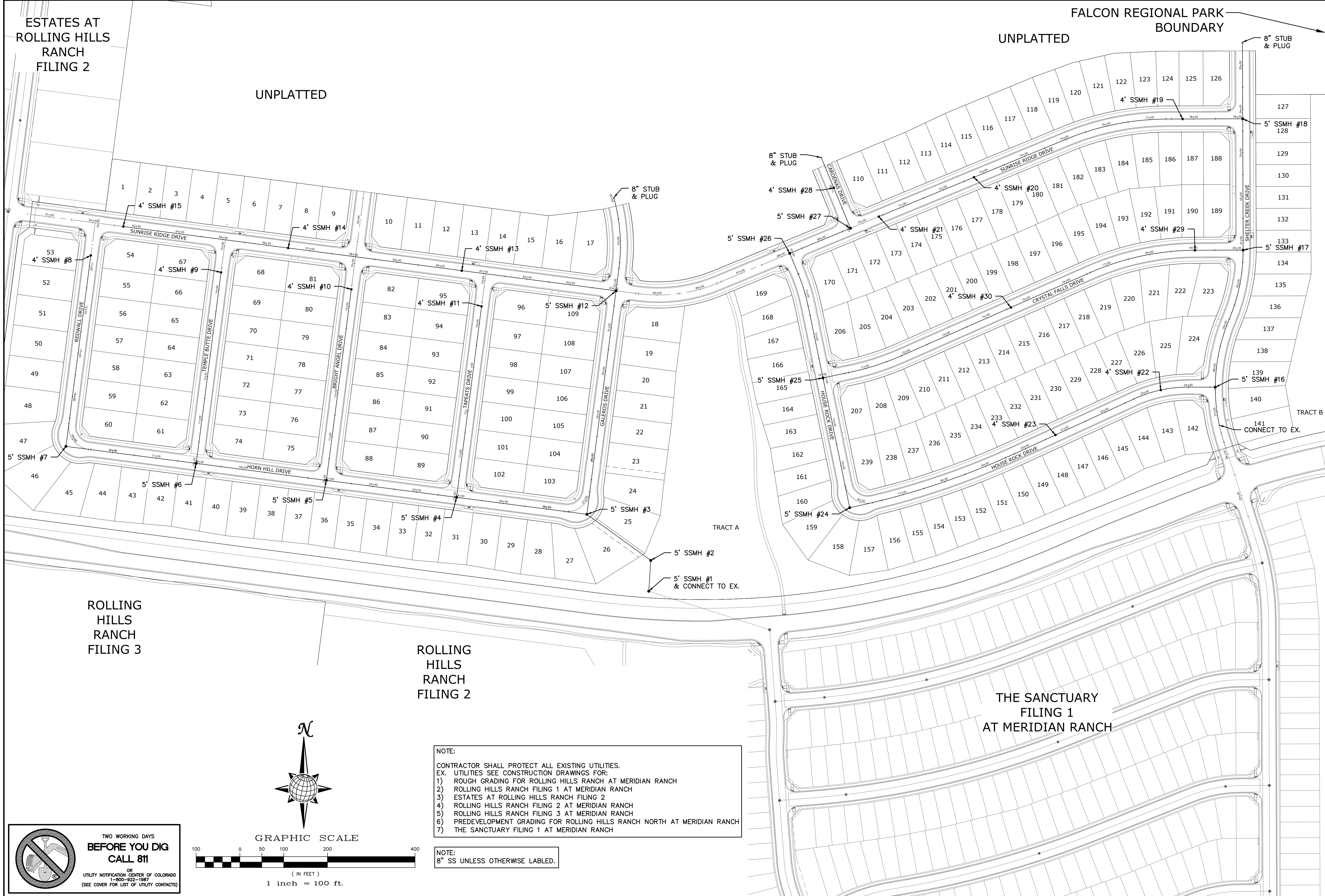
Scale	AS SHOWN	19 of 37	Date	NOVEMBER 2023
Drawn by	LOG	Checked by	TAK	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SIDEWALK + STRIPING PLAN				
TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
MERIDIAN RANCH				
No.	1	2	3	4
Revisions				
Date				
Appr.				

S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 1\DWG\PLAN SHEETS\Improvement Plans\02-RHR01.dwg, 1/9/2024 3:08:36 PM

ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

FALCON REGIONAL PARK UNPLATTED BOUNDARY



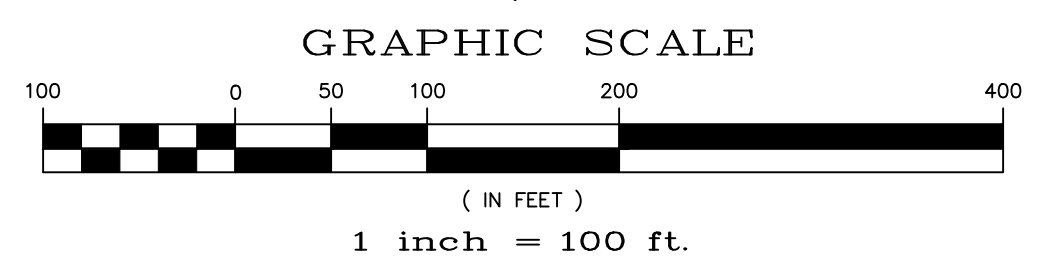
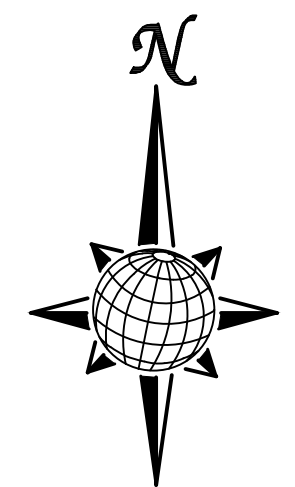
ROLLING HILLS RANCH FILING 3

ROLLING HILLS RANCH FILING 2

THE SANCTUARY FILING 1 AT MERIDIAN RANCH

NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
 3) ESTATES AT ROLLING HILLS RANCH FILING 2
 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

NOTE:
 8" SS UNLESS OTHERWISE LABELED.



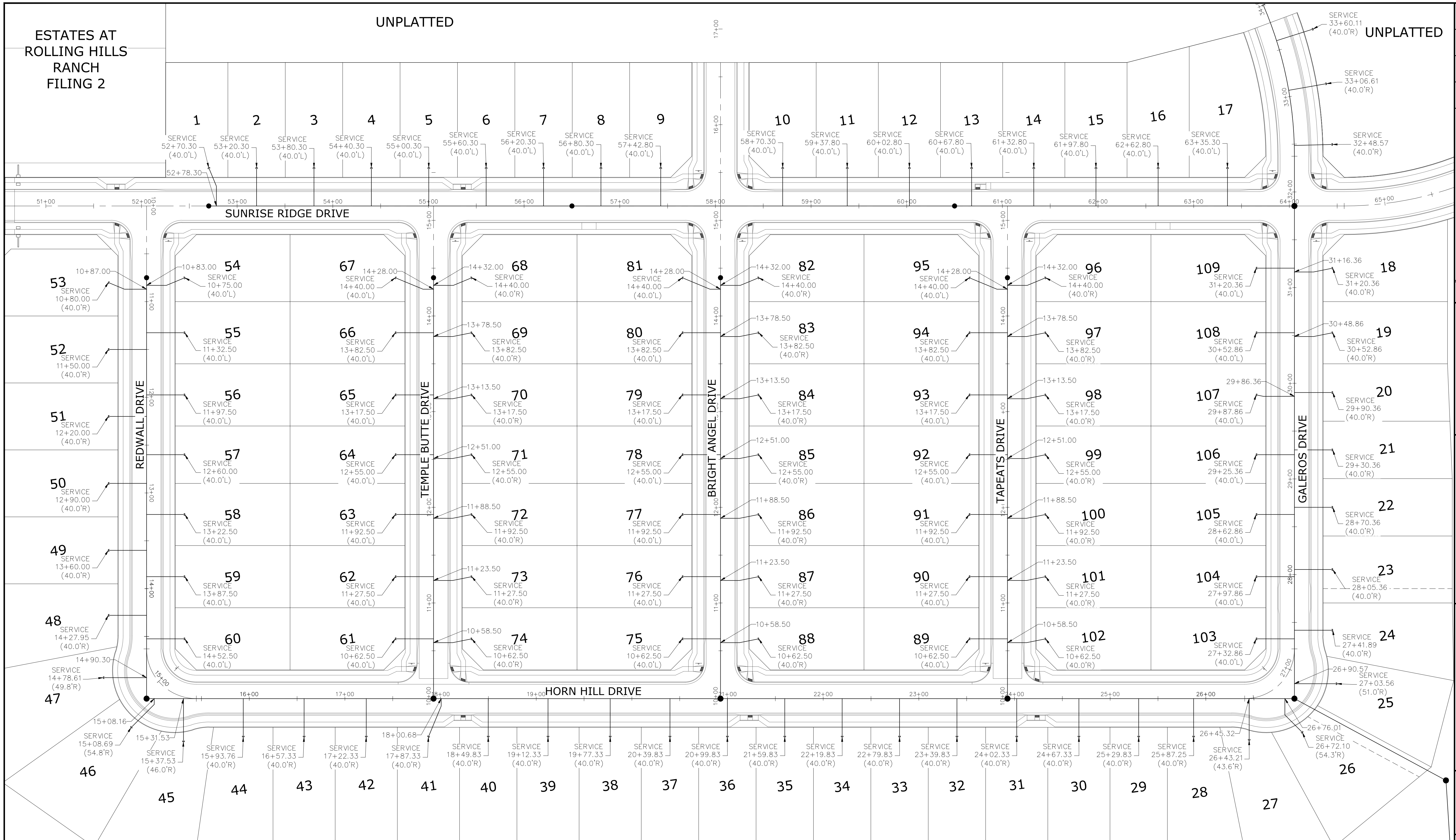
TWO WORKING DAYS BEFORE YOU DIG CALL 811
 OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-822-1987
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		MERIDIAN RANCH	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS		OVERALL SANITARY SEWER	
Scale	AS SHOWN	20 of 37	
Drawn by	LOG	Checked by	TAK
Date	NOVEMBER 2023		
No.	1	2	3
Revisions			
Date			
Appr.			

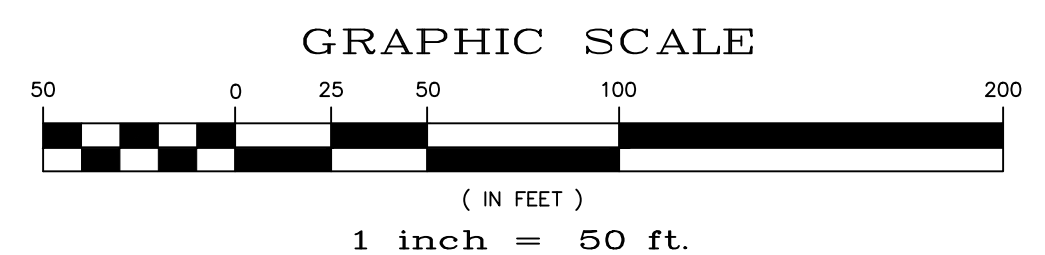
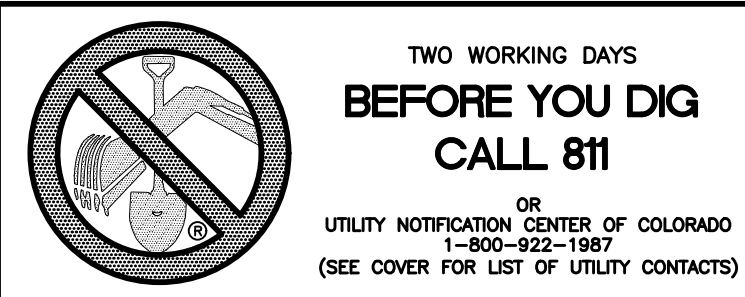
ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

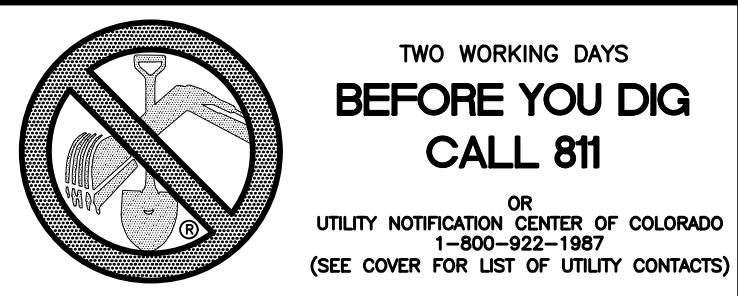
UNPLATTED



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
 3) ESTATES AT ROLLING HILLS RANCH FILING 2
 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

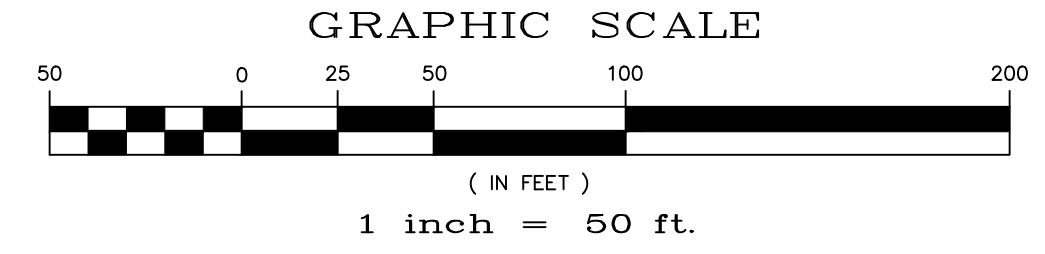
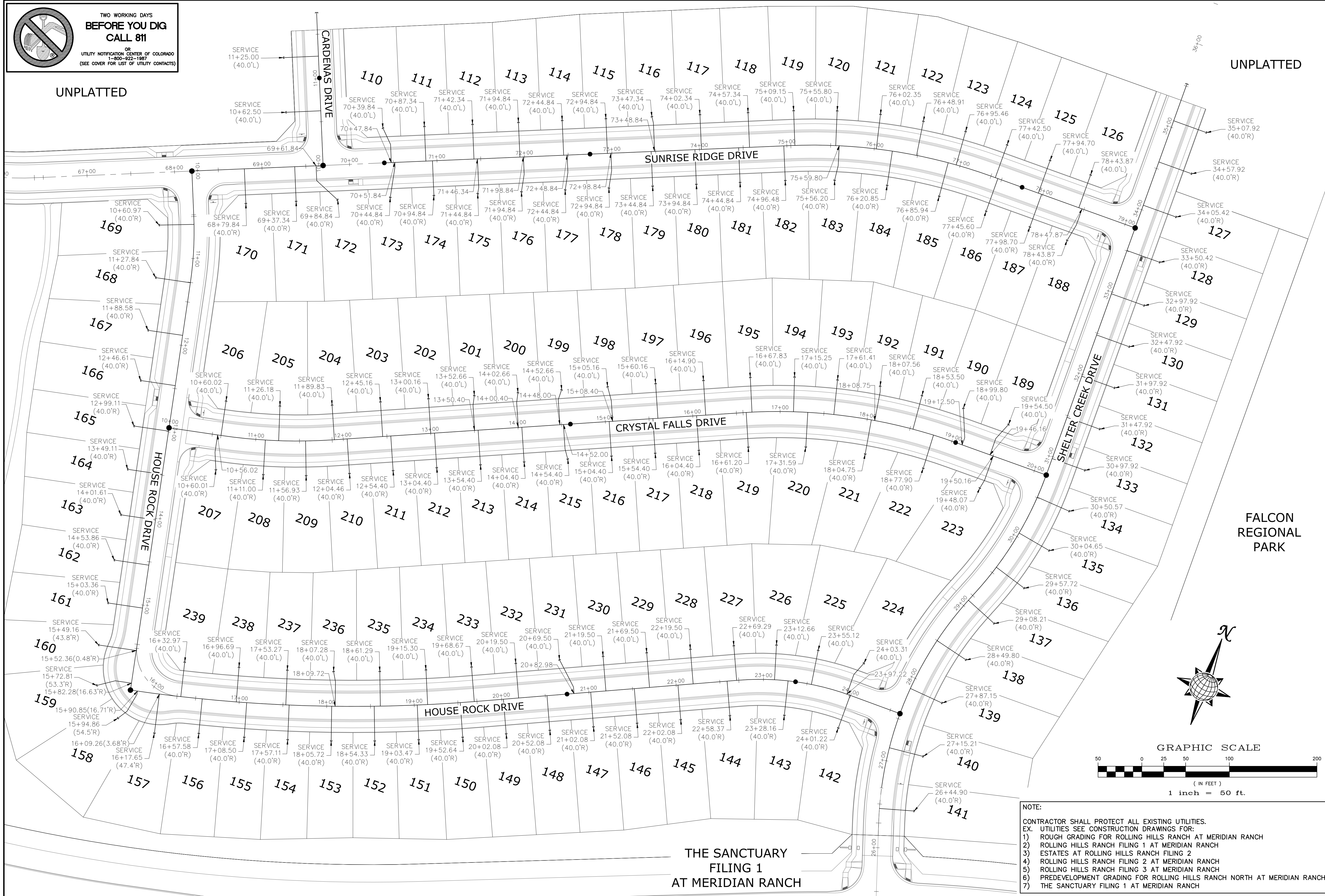


1	2	3	4	No.	Revisions
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
 MERIDIAN RANCH					
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES					
Scale	AS SHOWN	Drawn by	Log	Checked by	TAK
	21 of 37	Date	NOVEMBER 2023		
		Date	Invt.	Appr.	Date



UNPLATTED

UNPLATTED



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
 3) ESTATES AT ROLLING HILLS RANCH FILING 2
 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

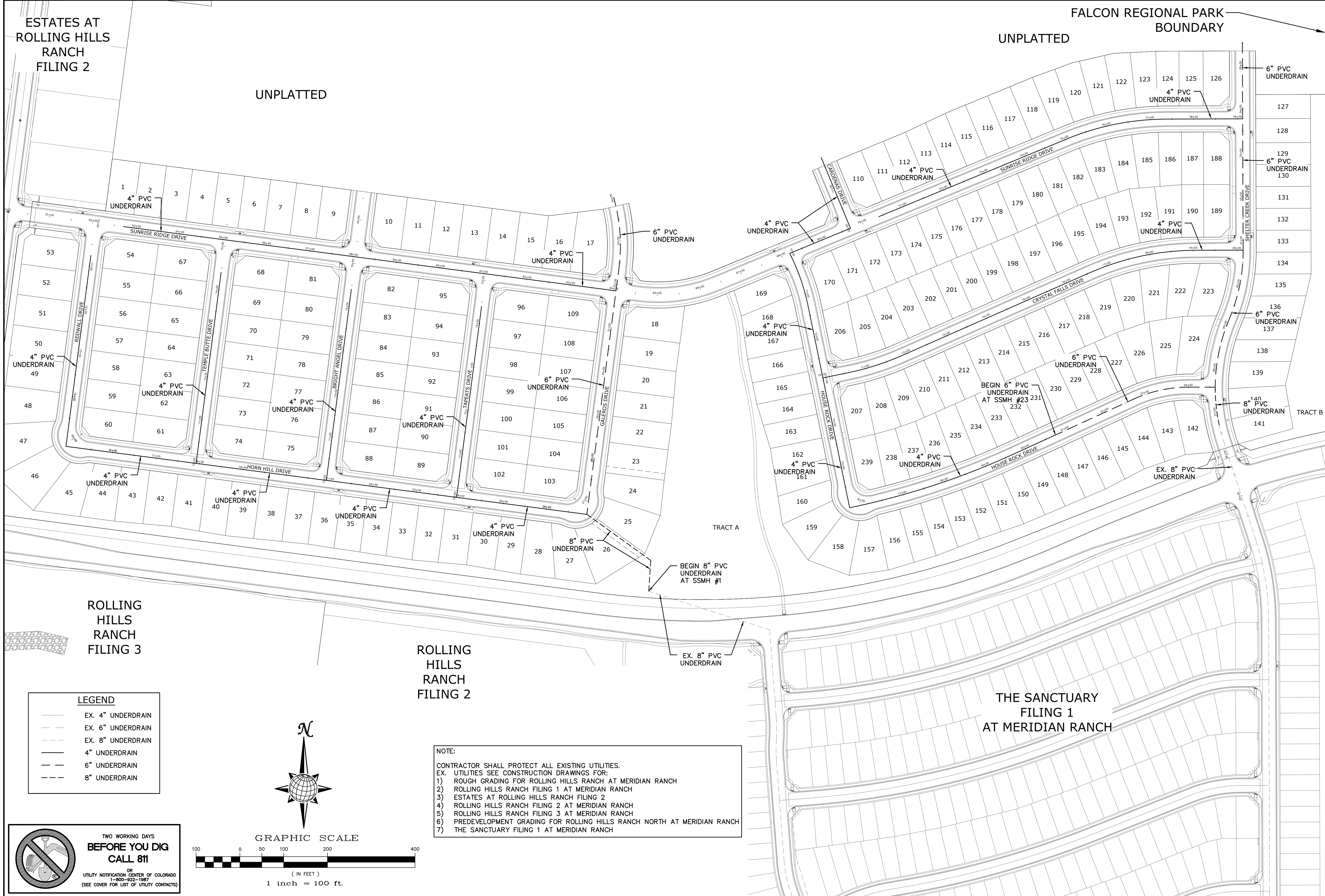
THE SANCTUARY
 FILING 1
 AT MERIDIAN RANCH

Scale	AS SHOWN	22 of 37	Date	NOVEMBER 2023
Drawn by	LOG	Checked by	TAK	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES				
 MERIDIAN RANCH				
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
No.	1	2	3	4
Revisions				
Date				
Appr.				

ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

FALCON REGIONAL PARK UNPLATTED BOUNDARY



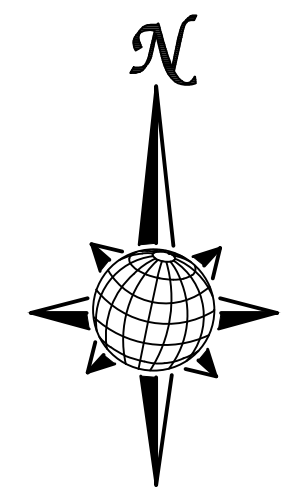
ROLLING HILLS RANCH FILING 3

ROLLING HILLS RANCH FILING 2

THE SANCTUARY FILING 1 AT MERIDIAN RANCH

LEGEND

- EX. 4" UNDERDRAIN
- EX. 6" UNDERDRAIN
- EX. 8" UNDERDRAIN
- 4" UNDERDRAIN
- 6" UNDERDRAIN
- 8" UNDERDRAIN



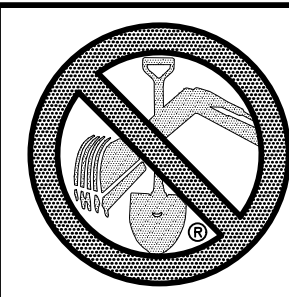
GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.


NOTE:

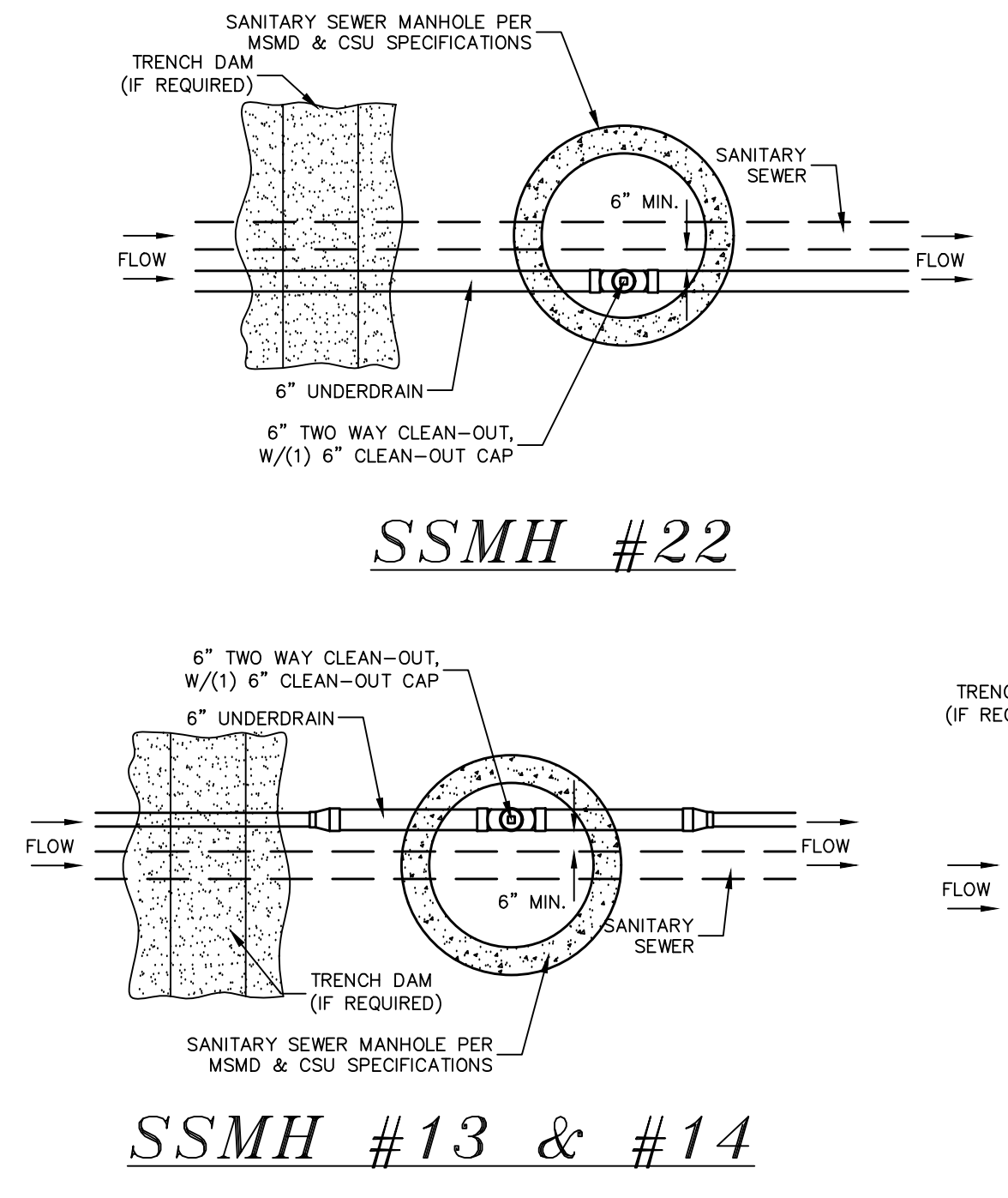
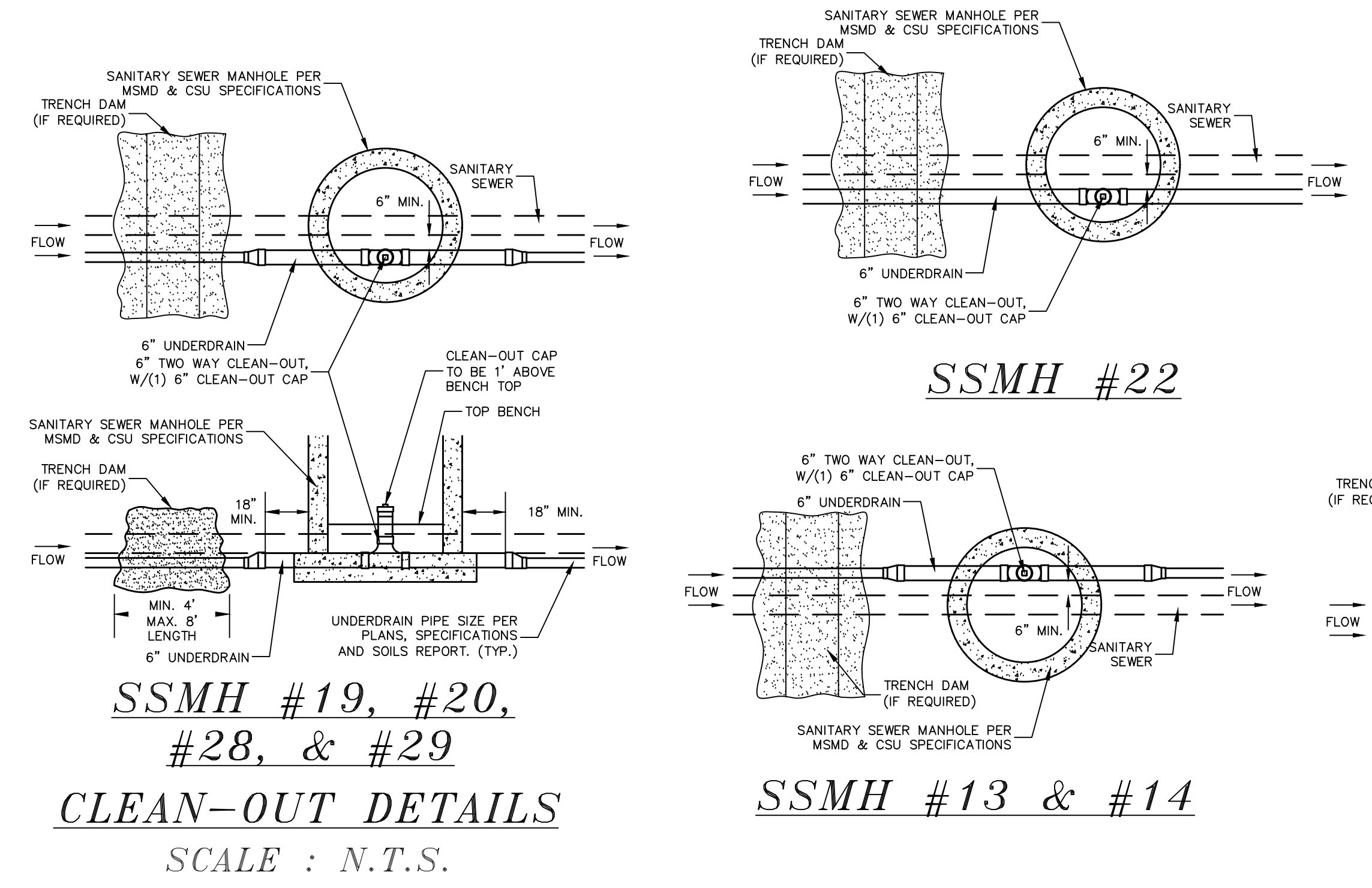
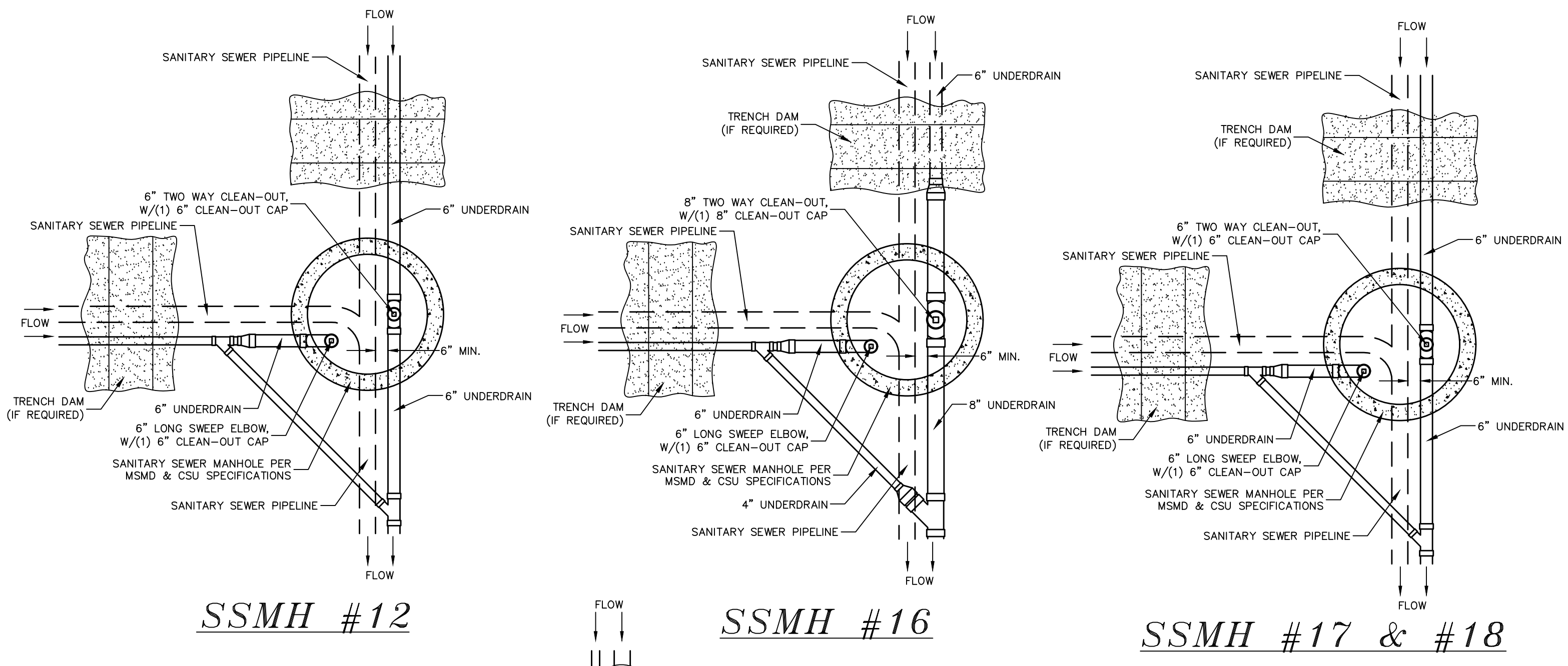
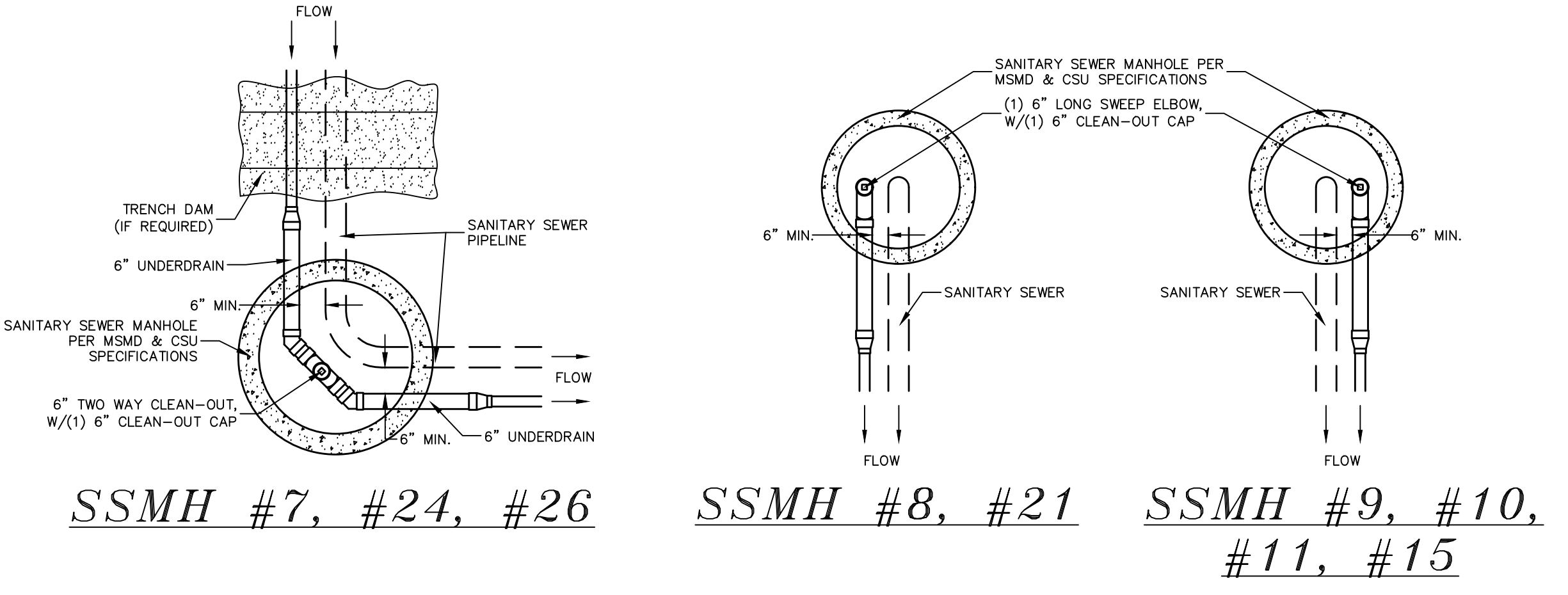
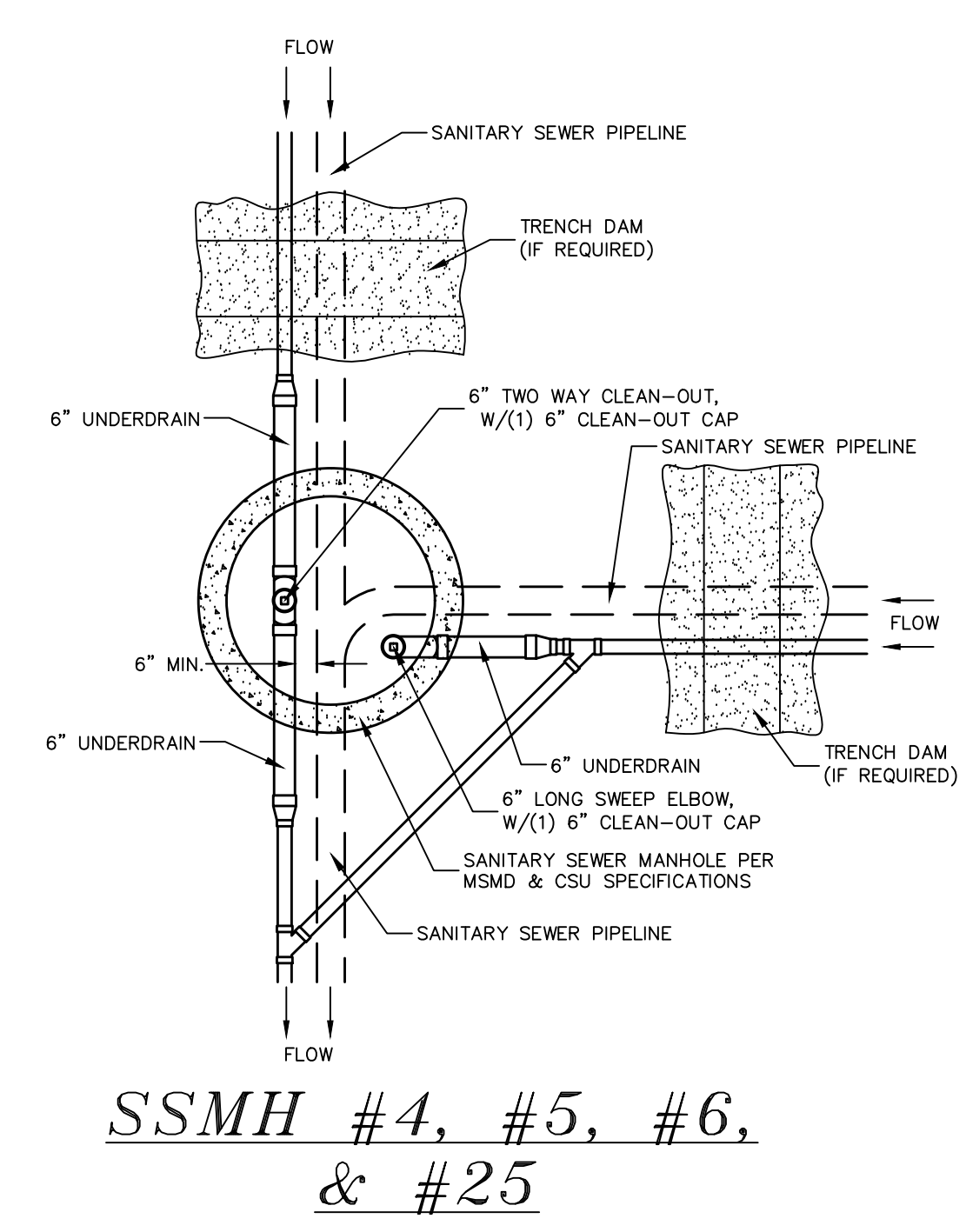
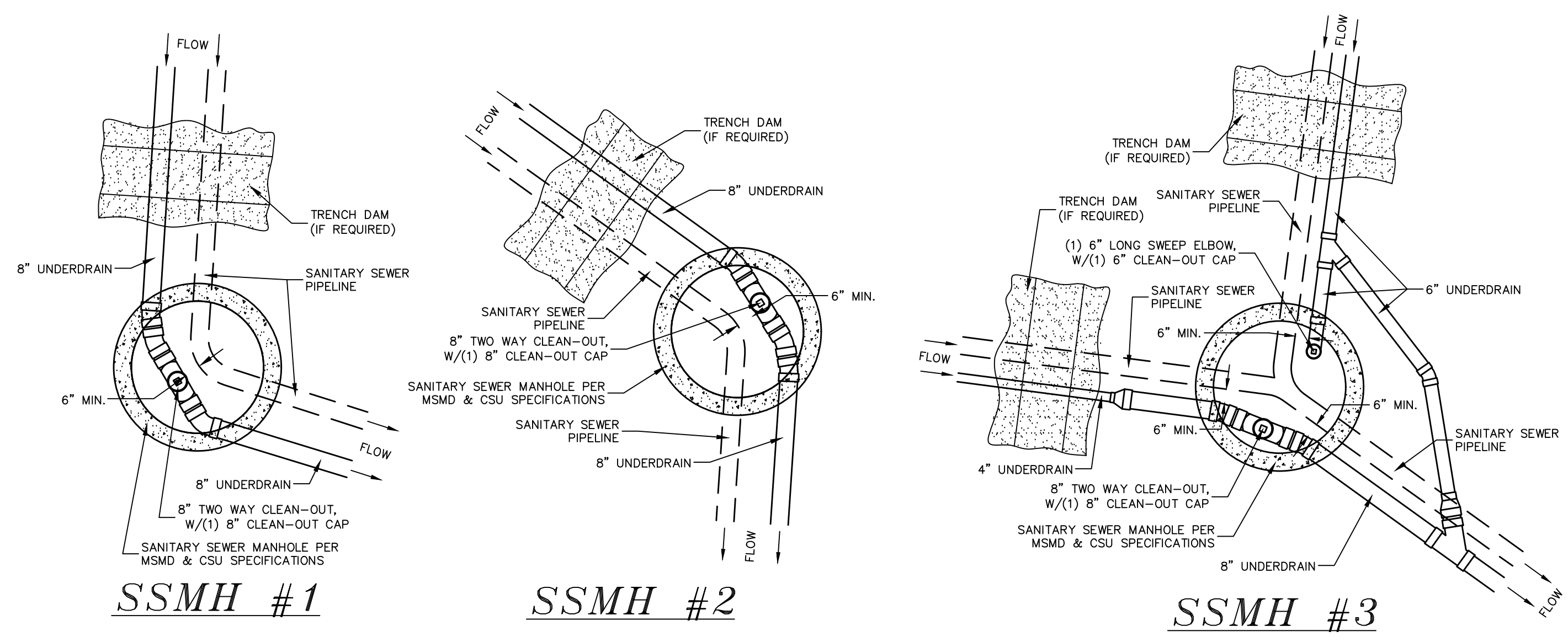
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
3) ESTATES AT ROLLING HILLS RANCH FILING 2
4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH



TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**

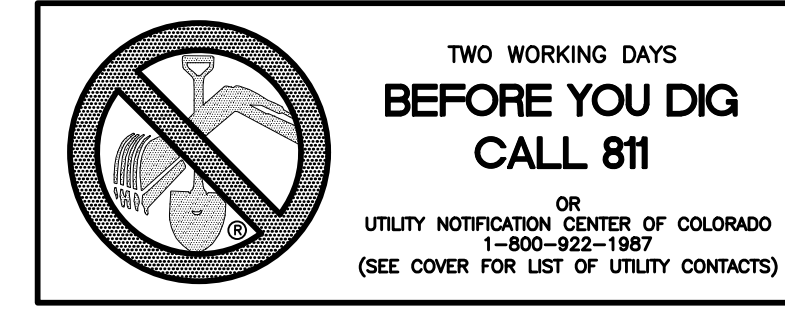
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

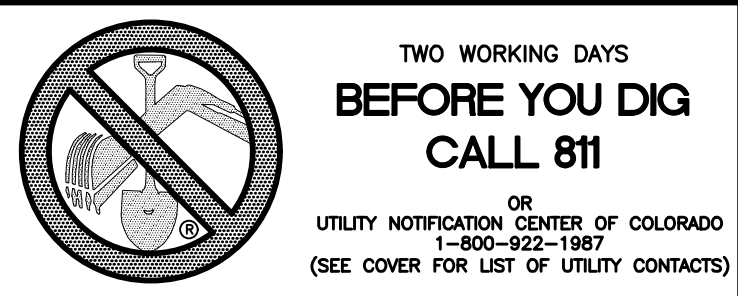
1		2		3		4	
No.		Revisions		Date		Appr.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444							
 MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL UNDERDRAIN							
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2023		
Scale	AS SHOWN		23 of 37				



- NOTES:**
1. THE UNDERDRAIN SYSTEM SHALL BE PASSIVE, WATER TIGHT, NON-PERFORATED PIPE, WITH THE MAIN LINE SIZE DESIGNED BY THE ENGINEER. ALL UNDERDRAIN PIPES AND FITTINGS SHALL BE SDR 35 PVC, OR MSMD APPROVED EQUAL. INSTALLED PER THE SAME INSTALLATION STANDARDS AS OUTLINED BY CSUS FOR SANITARY SEWER SYSTEMS. THE UNDERDRAIN SYSTEM AT EACH SANITARY SEWER MANHOLE SHALL CONTAIN 6" CLEAN-OUTS IN EACH UNDERDRAIN MAIN DIRECTION PER THE CLEAN-OUT DETAIL. ALL LOTS SHALL RECEIVE A WHITE 3" UNDERDRAIN SERVICE LATERAL ADJACENT TO THE SANITARY SEWER SERVICE LATERAL.
 2. TESTING OF THE UNDERDRAIN SYSTEM WILL CONSIST OF VISUAL INSPECTIONS FOR WATER IN THE SYSTEM, ALONG WITH A VIDEO INSPECTION PERFORMED BY MSMD PERSONNEL. ALL UNDERDRAIN MAINS AND DOWNSTREAM INFILTRATION STRUCTURES SHALL BE CLEAN AND DEBRIS FREE UPON COMPLETION OF THE SYSTEM AND PRIOR TO CCTV. ALL UNDERDRAIN MAINS SHALL BE CCTV INSPECTED BY MSMD AND REVIEWED FOR APPROVAL. THE SPECIFICATION FOR ALLOWABLE STANDING WATER AND WATER INFILTRATION IN THE UNDERDRAIN SYSTEM SHALL BE THE SAME AS PER CSUS FOR SANITARY SEWER SYSTEMS. IF EXCESS WATER IS OBSERVED IN THE UNDERDRAIN SYSTEM, THE CONTRACTOR SHALL LOCATE THE SOURCE OF WATER INFILTRATION AND REPAIR AS NECESSARY TO MEET CSUS.
 3. IF THE UNDERDRAIN MAIN HAS LOW SPOTS THAT EXCEED CSUS STANDARDS, THE CONTRACTOR SHALL REPAIR THE LINE AS NECESSARY TO MEET CSUS. UNDERDRAIN MAINS THAT DO NOT MEET MSMD STANDARDS SHALL BE REPLACED AND OR REPAIRED AS NECESSARY. THE CONTRACTOR SHALL RE-CCTV INSPECT THE UNDERDRAIN MAIN LINES AFTER THE REPAIRS HAVE BEEN MADE WITH ONE VIDEO SUBMITTED TO MSMD FOR REVIEW AND APPROVAL.
 4. UNDER DRAIN MAIN LINES SHALL HAVE CONTINUOUS POSITIVE DRAINAGE TO THE POINT OF DISCHARGE INTO A BELOW GRADE AN APPROVED UNDERDRAIN INFILTRATION STRUCTURE WHEREVER POSSIBLE. UNDERDRAIN INFILTRATION STRUCTURES SHALL BE DESIGNED WITH OVERFLOW LINES FOR FUTURE EXPANSION AS NEEDED. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION OF THE INFILTRATION STRUCTURE, STOP INSTALLATION AND CONTACT THE DISTRICT ENGINEER FOR POSSIBLE ALTERNATE DESIGN.
 5. UNDERDRAINS WILL DAYLIGHT AT LOCATIONS SHOWN ON THE DRAWINGS.
 6. UNDERDRAIN CLEANOUTS SHALL BE 6 INCH AND SHALL BE LOCATED AT EVERY MANHOLE. UNDERDRAIN CLEANOUTS AND CLEANOUT CONSTRUCTION WILL LEAVE NO INFILTRATION WITHIN SEWER MANHOLES. MANHOLE PENETRATIONS TO BE FILLED WITH NON-SHRINKING GROUT. UNDERDRAIN SIZE WILL NOT BE REDUCED THROUGH THE MANHOLE.
 7. TRENCH DAMS WILL BE PROVIDED AT INTERVALS NO GREATER THAN 350 FEET IN SANITARY SEWER SECTIONS WHERE GROUNDWATER EXISTS OR WHERE DIRECTED BY THE ENGINEER. A TRENCH DAM WILL BE CONSTRUCTED WITHIN THE FIRST 100 FEET OF EITHER ENTERING OR EXITING GROUNDWATER. THE CONTRACTOR SHALL NOTIFY THE DISTRICT WHEN GROUNDWATER IS ENCOUNTERED TO REVIEW TRENCH DAM NEEDS, LOCATIONS, AND MATERIALS.
 8. TRENCH DAMS MAY BE CONSTRUCTED OF ON SITE MATERIALS IF APPROVED BY THE SOILS ENGINEER.
 9. TRENCH DAMS SHALL COMPLETELY INTERRUPT GRAVEL BEDDING AND STABILIZATION THE FULL WIDTH OF THE TRENCH FOR A LENGTH OF NO LESS THAN 4 FEET BUT NO GREATER THAN 8 FEET.
 10. TRENCH DAMS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR AROUND THE SEWER AND UNDERDRAIN PIPELINES.
 11. IF ALTERNATE MATERIALS (CONCRETE) OR SOIL AMENDED TRENCH DAMS ARE NECESSARY OR REQUIRED BY THE ENGINEER, THE DAMS SHALL BE EXTENDED A MINIMUM OF 6 FEET ABOVE THE PIPELINE BUT IN NO CASE CLOSER THAN 6' FROM THE SURFACE.

1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444							
 MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS UNDERDRAIN DETAILS							
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2023
	24						
	of						
	37						



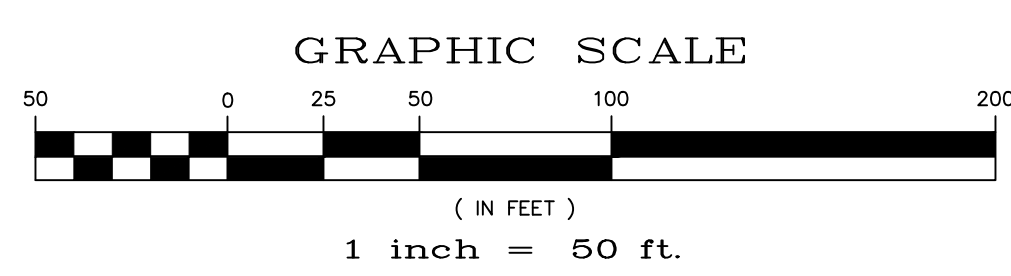
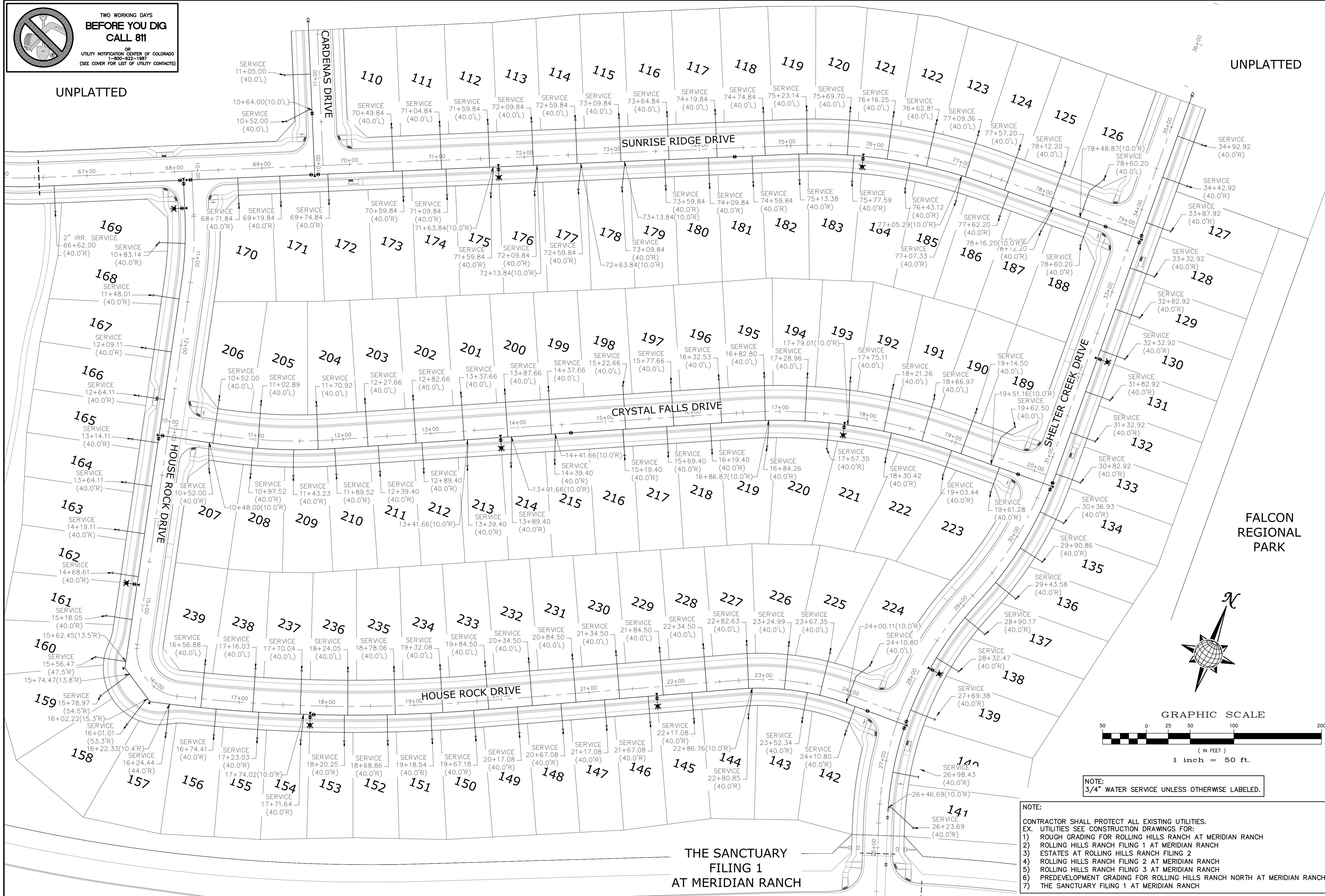


**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

UNPLATTED

UNPLATTED



NOTE:
3/4" WATER SERVICE UNLESS OTHERWISE LABELED.

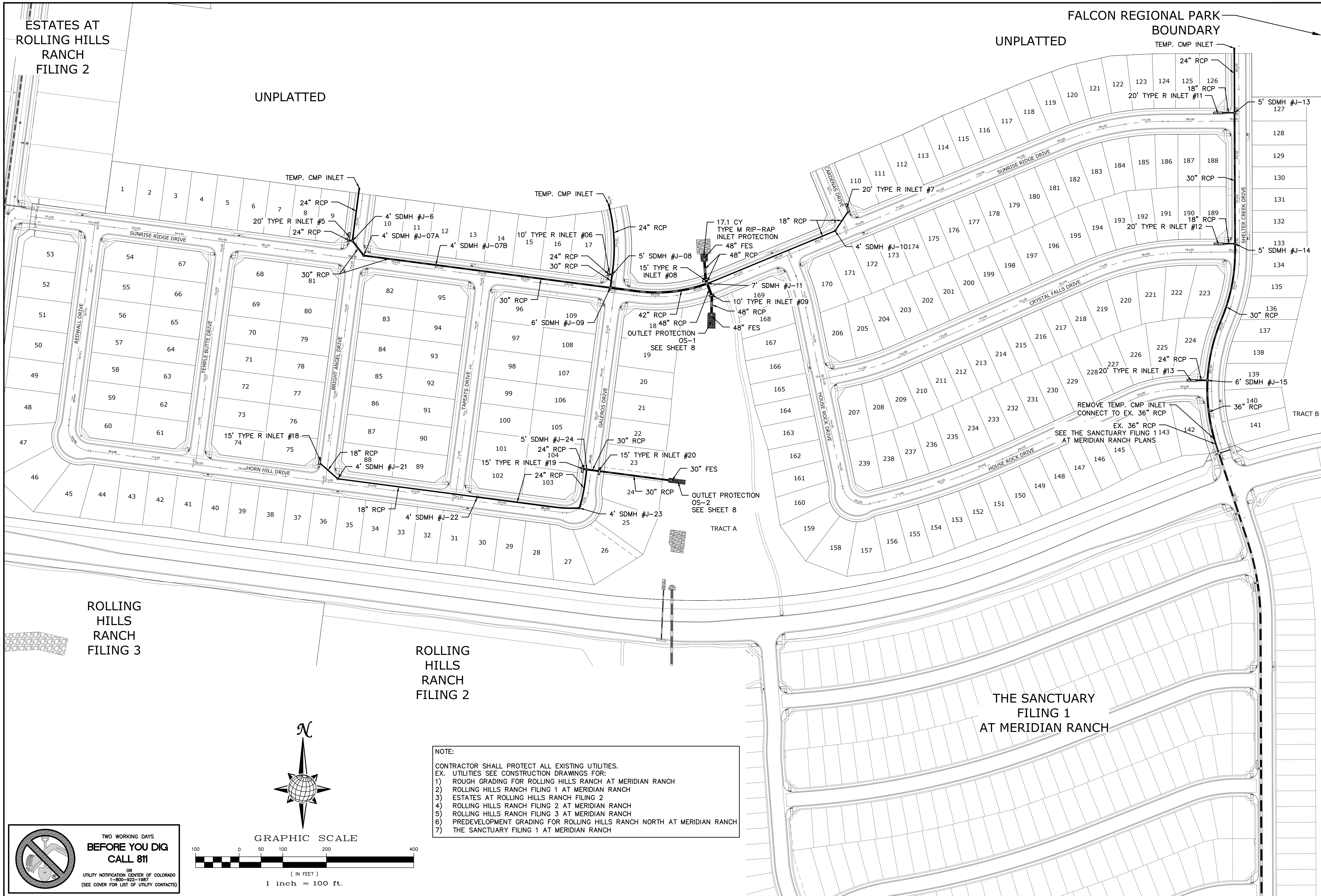
NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
3) ESTATES AT ROLLING HILLS RANCH FILING 2
4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

**THE SANCTUARY
FILING 1
AT MERIDIAN RANCH**

Scale	AS SHOWN	27 of 37
Drawn by	LOG	Checked by
		TAK
Date	NOVEMBER 2023	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL WATER SERVICES		
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
No.	Revisions	Date
1		
2		
3		
4		
		Appr.
		Date



MERIDIAN RANCH



ESTATES AT ROLLING HILLS RANCH FILING 2

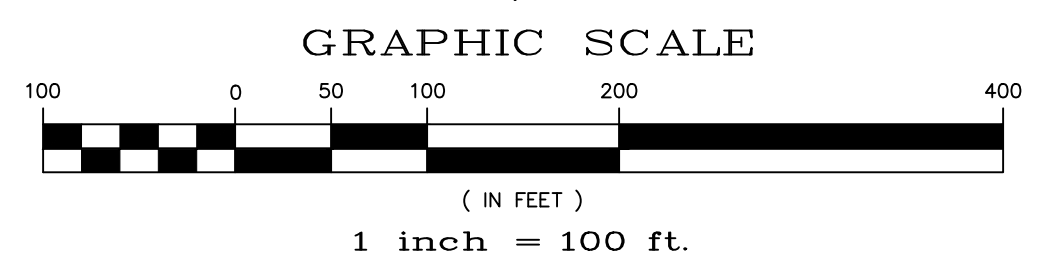
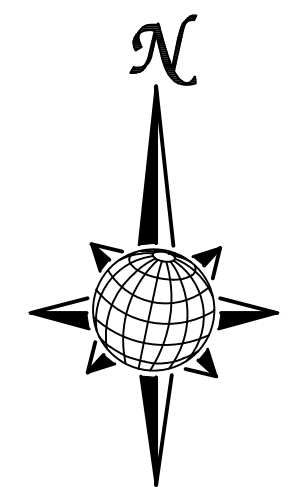
UNPLATTED

FALCON REGIONAL PARK UNPLATTED BOUNDARY

ROLLING HILLS RANCH FILING 3

ROLLING HILLS RANCH FILING 2

THE SANCTUARY FILING 1 AT MERIDIAN RANCH



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
 3) ESTATES AT ROLLING HILLS RANCH FILING 2
 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

TWO WORKING DAYS BEFORE YOU DIG CALL 811
 OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-822-1987
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

No.	Revisions	Date	Appr.
1			
2			
3			
4			

TECH CONTRACTORS
 11910 TOURMALINE DR. #130
 FALCON, CO 80831
 TELEPHONE: 719.495.7444

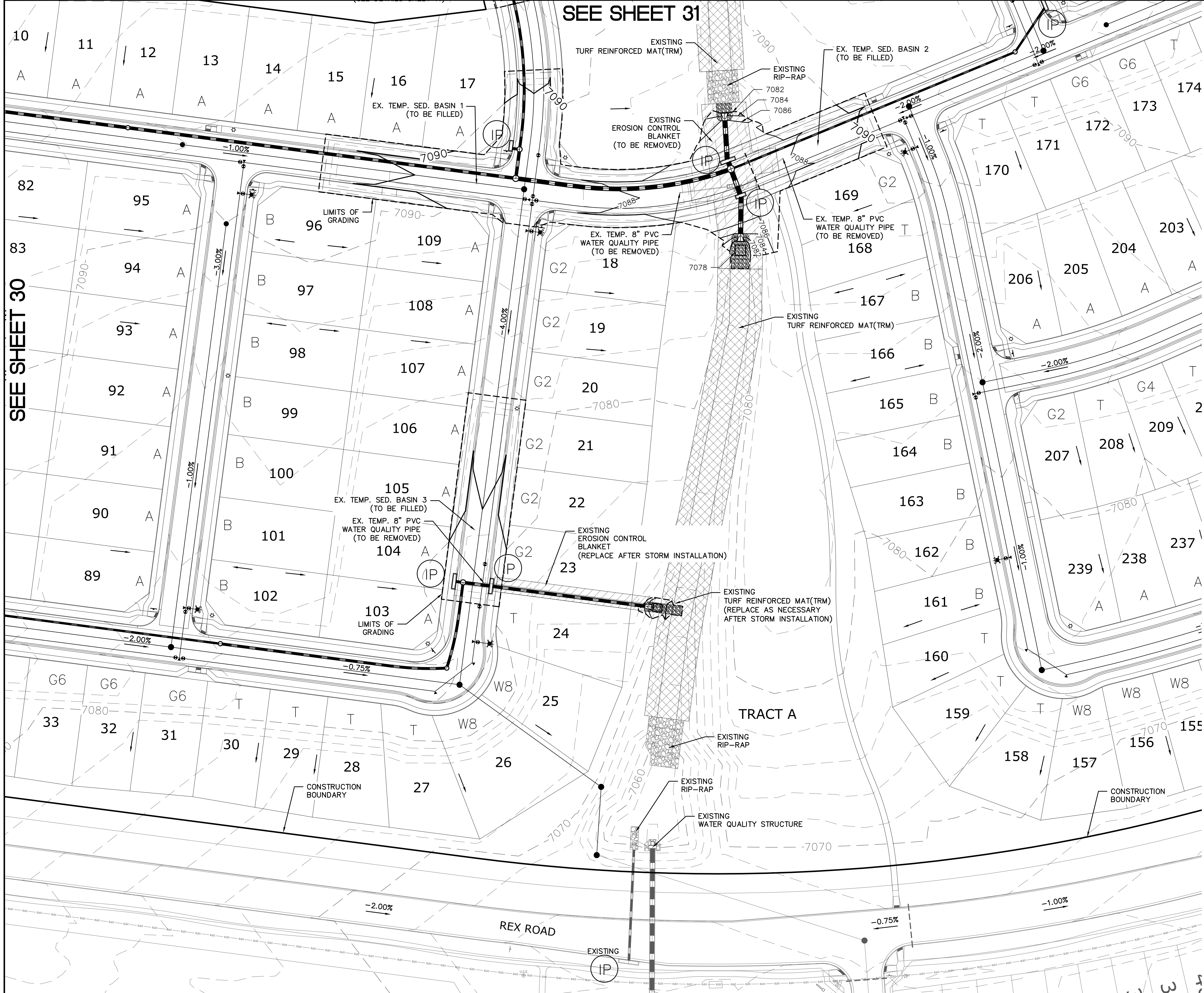
MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL STORM DRAIN

Scale	AS SHOWN
Drawn by	LOG
Checked by	TAK
Date	NOVEMBER 2023

28 of 37

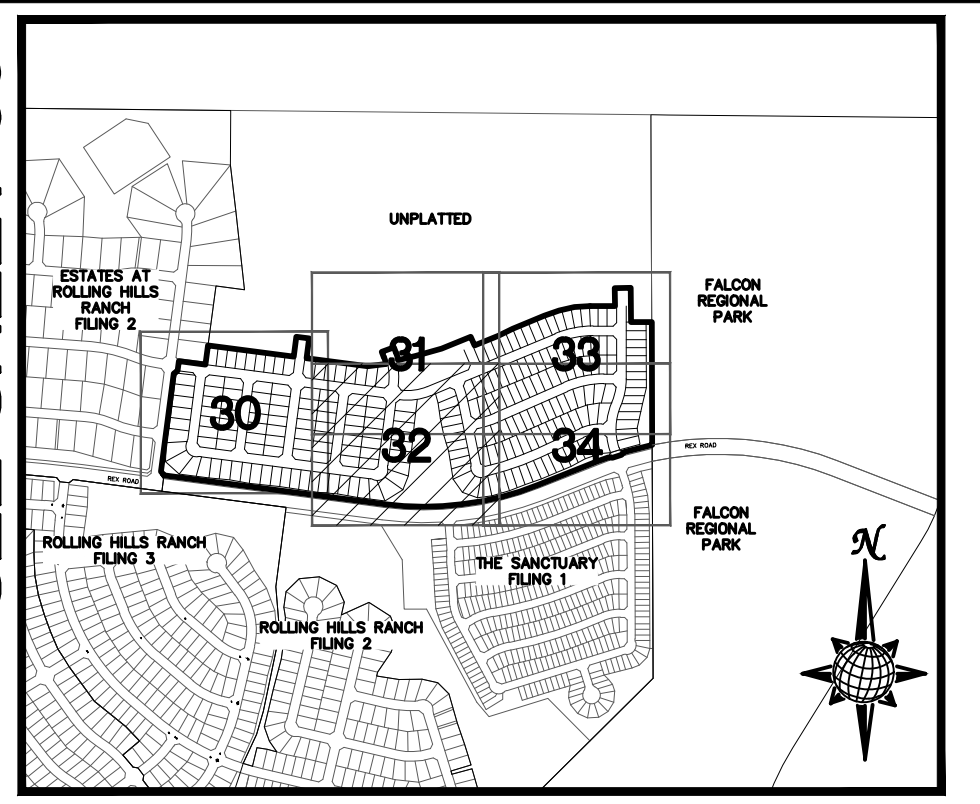
S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 1\DWG\PLAN SHEETS\Improvement Plans\04-RHR01.dwg, 11/7/2023 10:32:19 AM



SEE SHEET 31

SEE SHEET 33

SEE SHEET 34



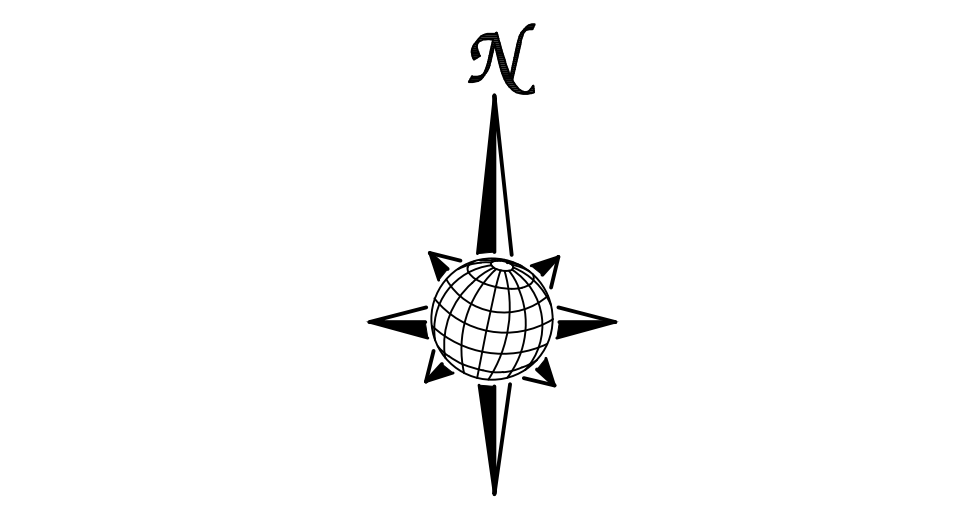
INDEX MAP N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 37
		EX. EROSION WATTLES(UNLESS OTHERWISE NOTED) PER DETAIL SHEET 37
		EX. EROSION CONTROL BLANKET (UNLESS OTHERWISE NOTED) PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VT	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 37
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE
	75	LOT NUMBER

NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 36.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ESTATES AT ROLLING HILLS RANCH FILING 2
 2) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
 3) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
 4) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
 5) ROUGH GRADING FOR ROLLING HILLS RANCH
 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH



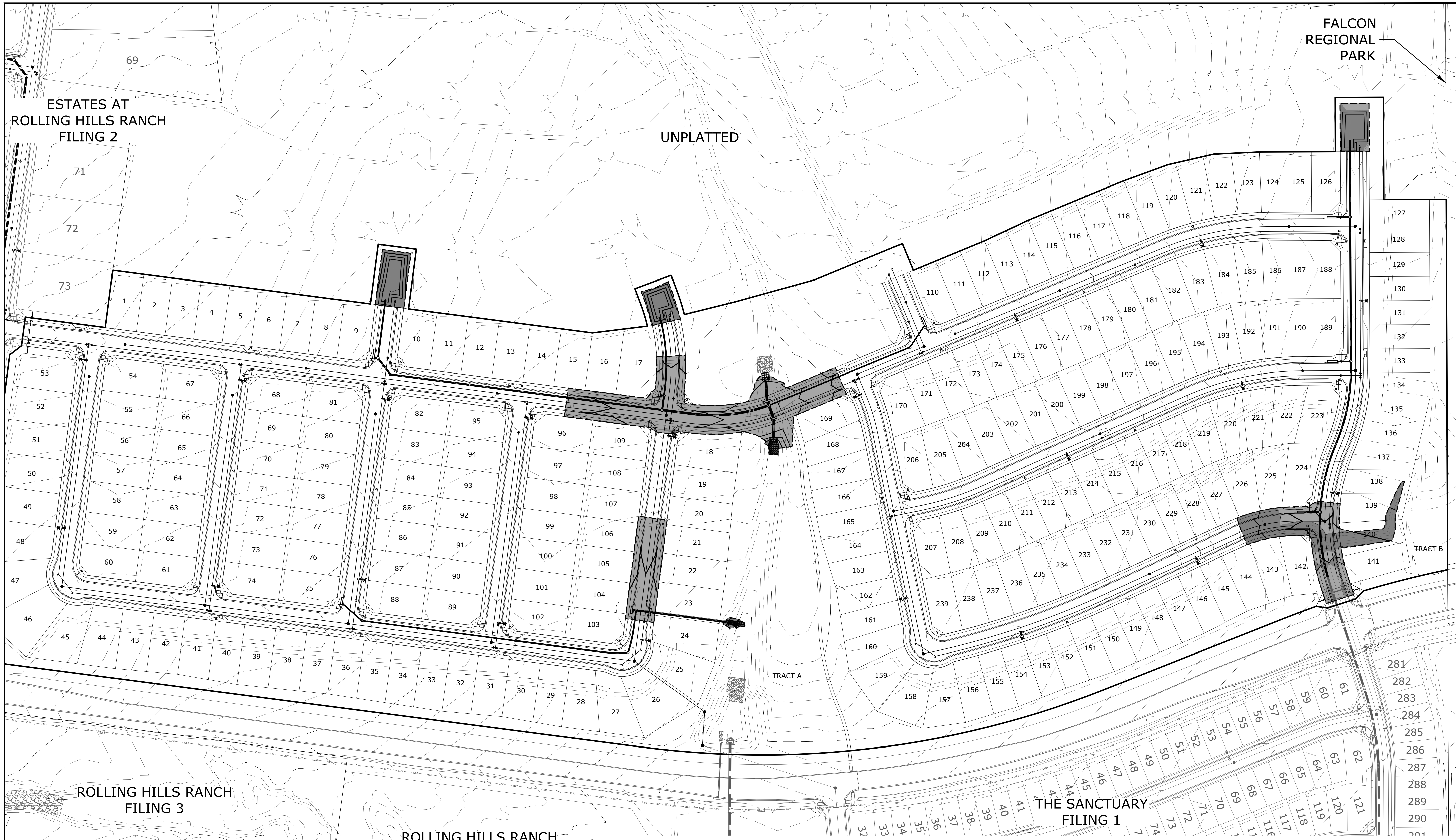
Scale AS SHOWN 32 of 37

NO DIGGING

TWO WORKING DAYS
BEFORE YOU DIG CALL 811

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444							
MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN							
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2023		
PLAN SHEET							



FALCON REGIONAL PARK

UNPLATTED

ESTATES AT ROLLING HILLS RANCH FILING 2


ROLLING HILLS RANCH FILING 3

ROLLING HILLS RANCH FILING 2

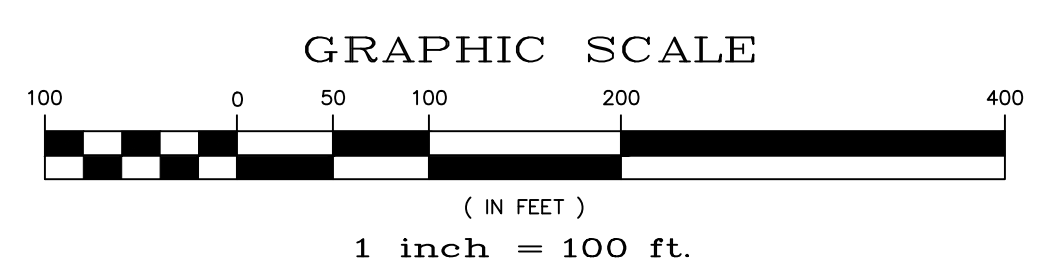
THE SANCTUARY FILING 1

TRACT B

TRACT A




TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-622-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



LEGEND:

AREAS OF CUT 

AREAS OF FILL 

NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 36.
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1) ESTATES AT ROLLING HILLS RANCH FILING 2
2) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
3) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
4) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
5) ROUGH GRADING FOR ROLLING HILLS RANCH
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

Scale	AS SHOWN	35 of 37
Drawn by	LOG	NOVEMBER 2023
Checked by	TAK	
Date		
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN CUT-FILL SHEET		
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
MERIDIAN RANCH		
No.	Revisions	Date
1		
2		
3		
4		
		Date
		Appr.

