

THE ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

FALCON REGIONAL PARK

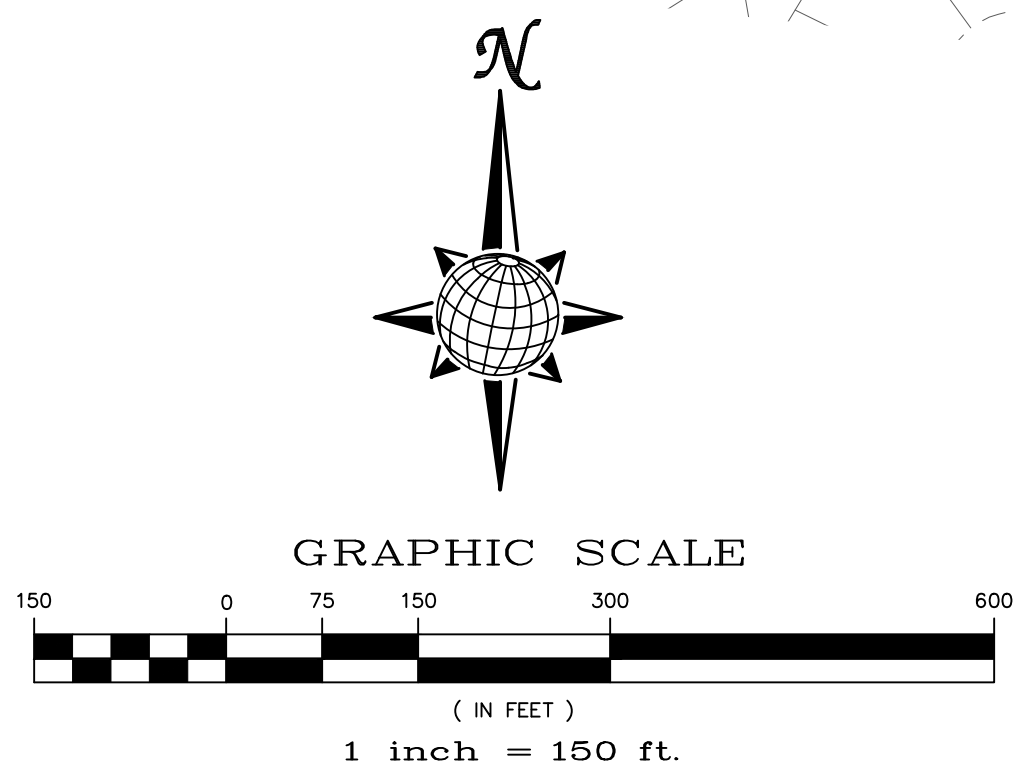
THE SANCTUARY FILING 1 AT MERIDIAN RANCH

FALCON REGIONAL PARK

ROLLING HILLS RANCH FILING 3

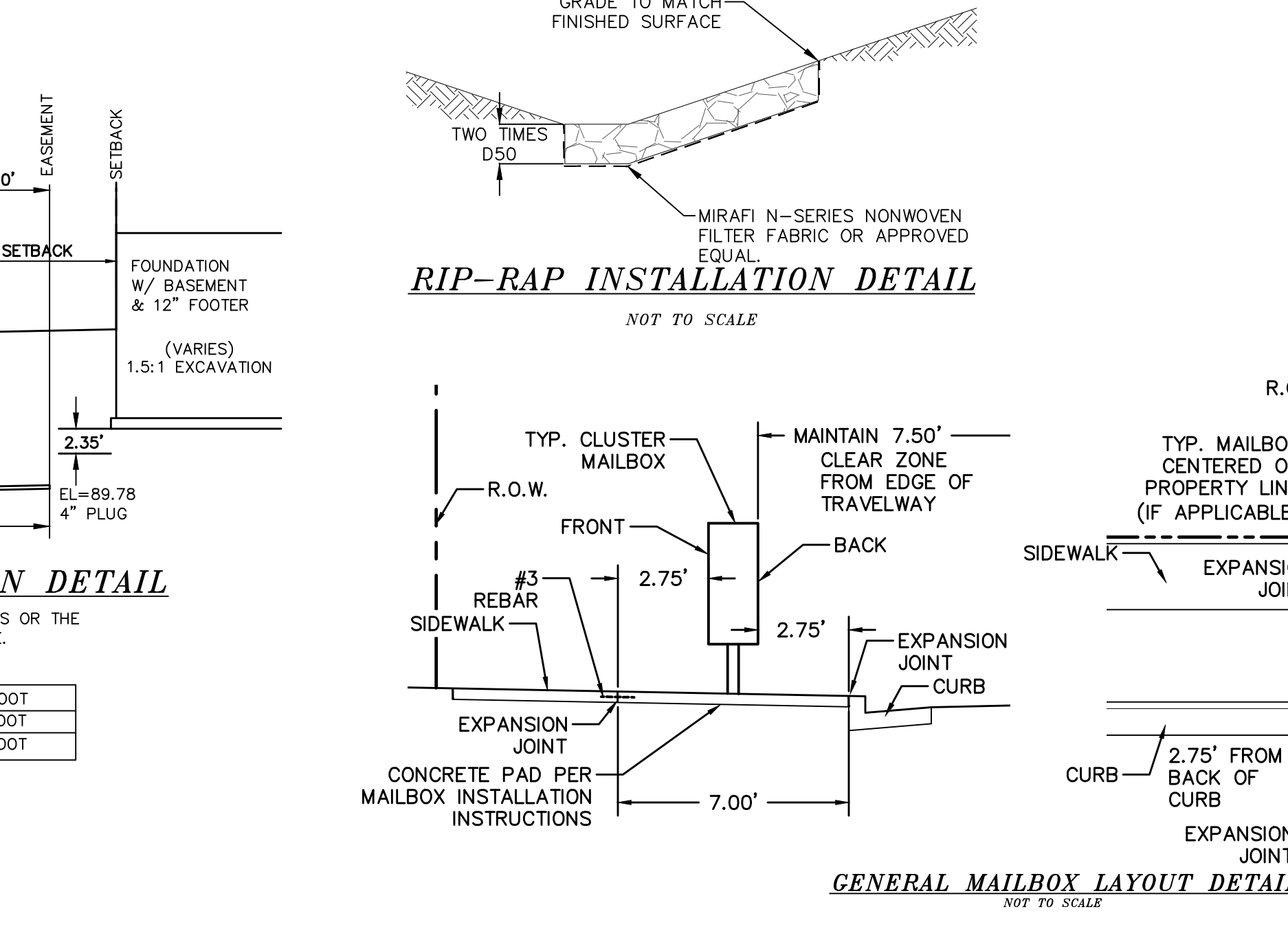
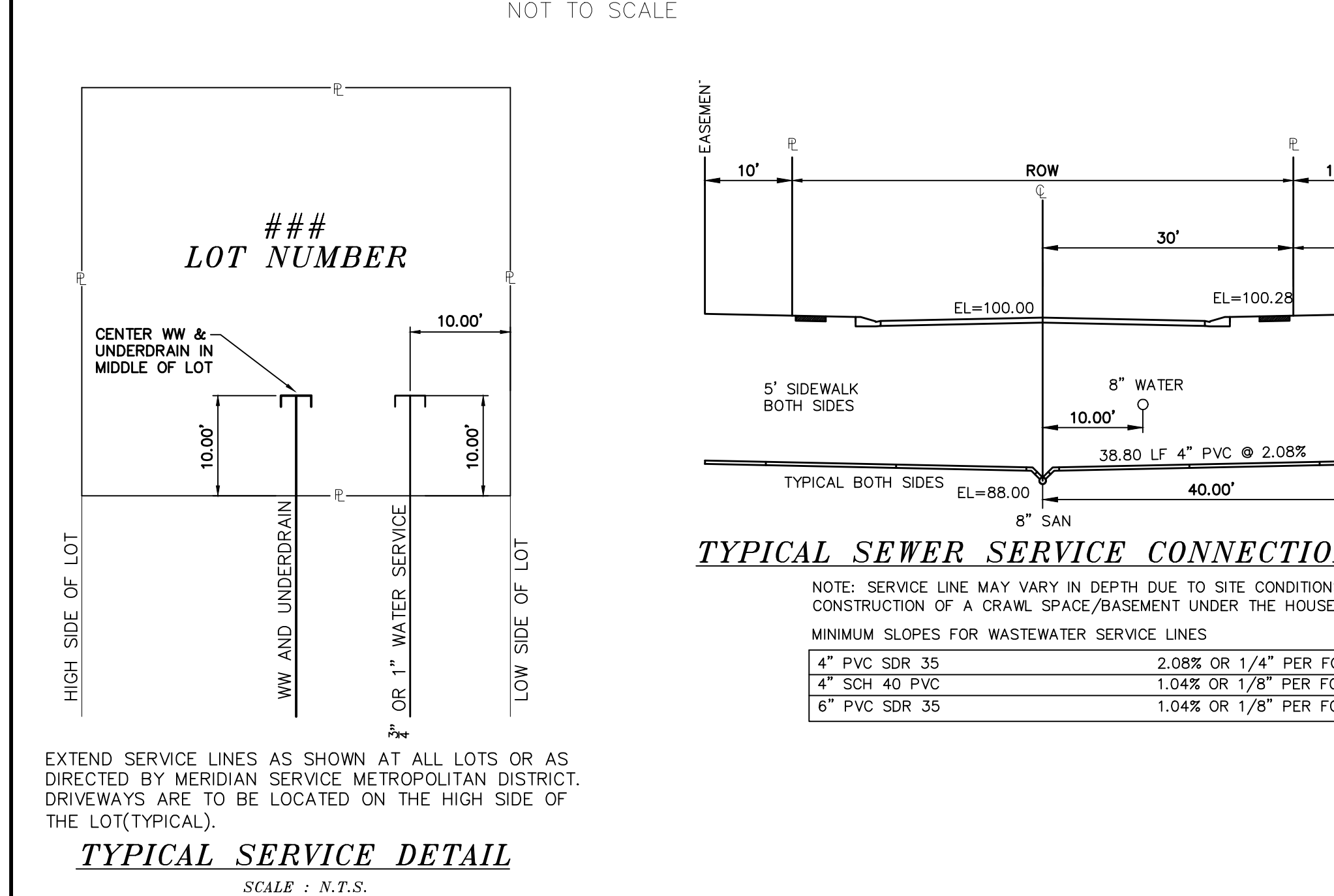
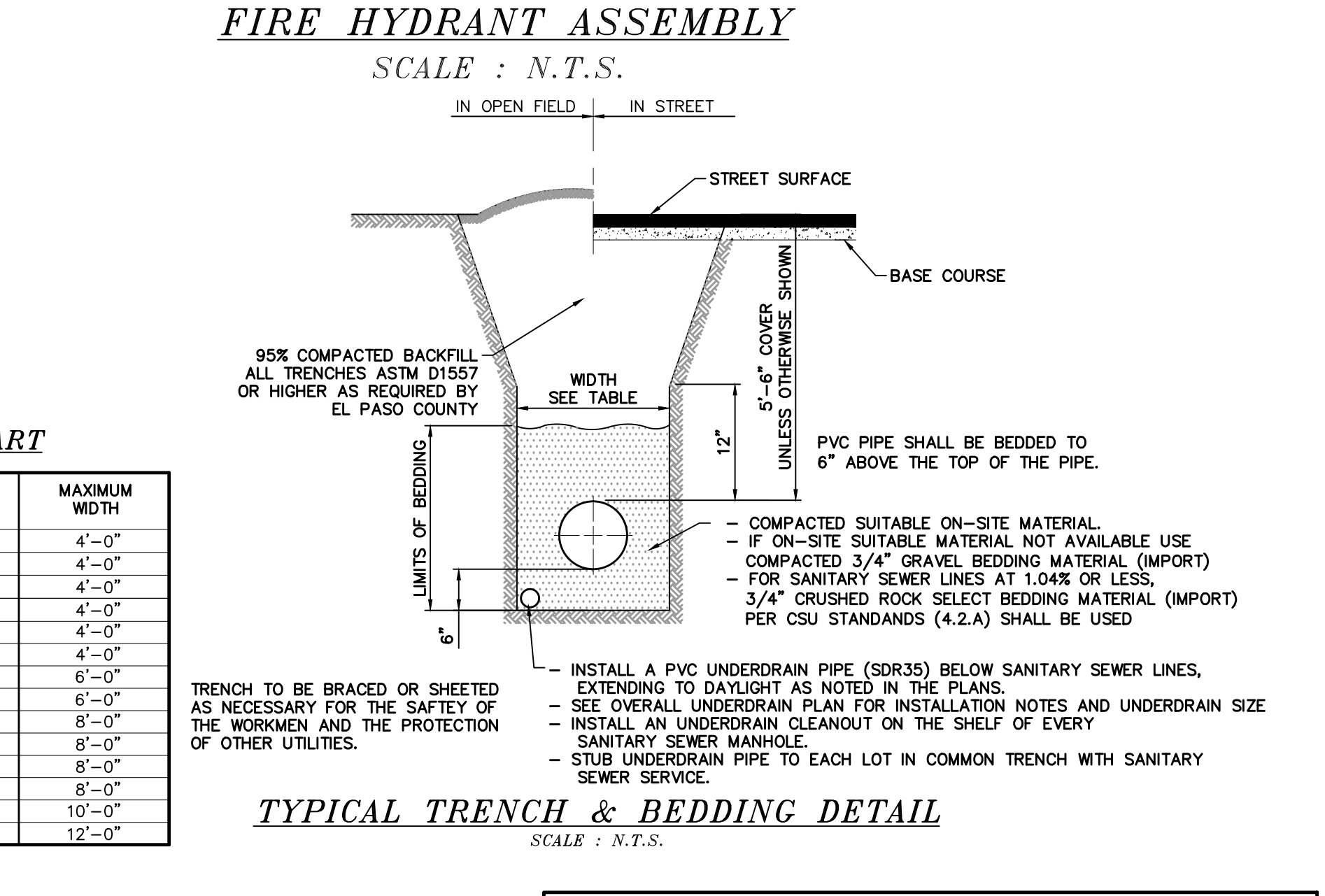
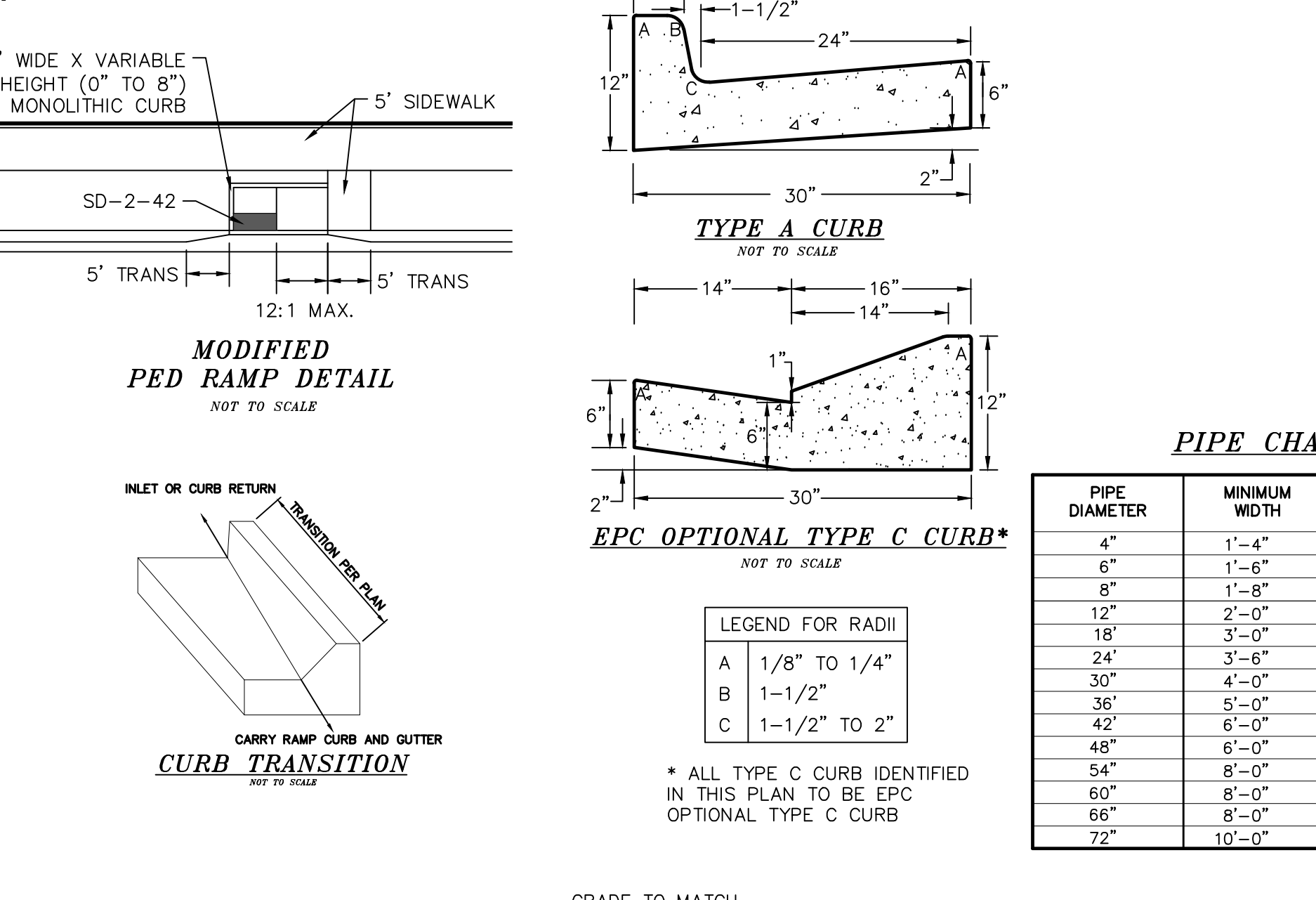
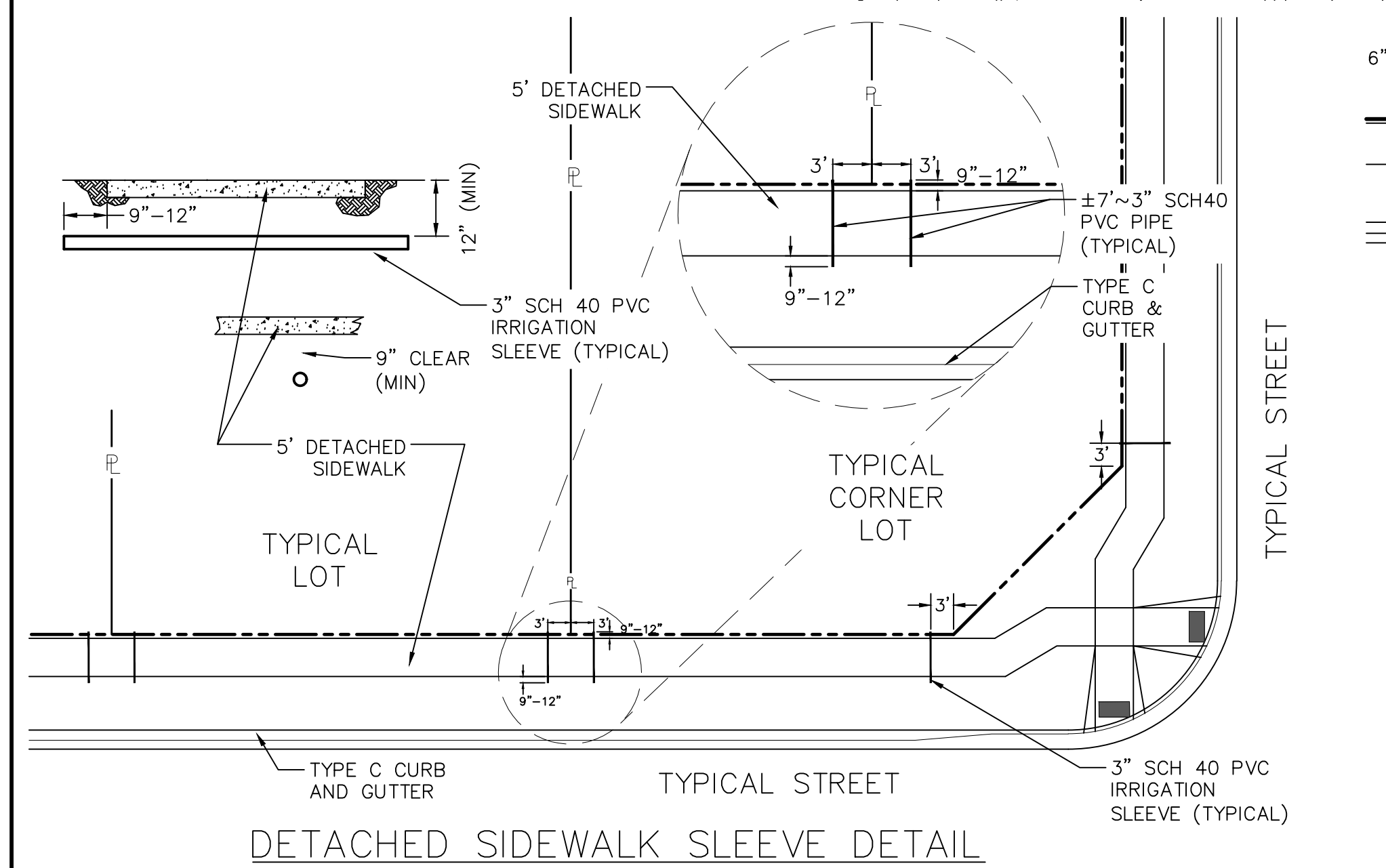
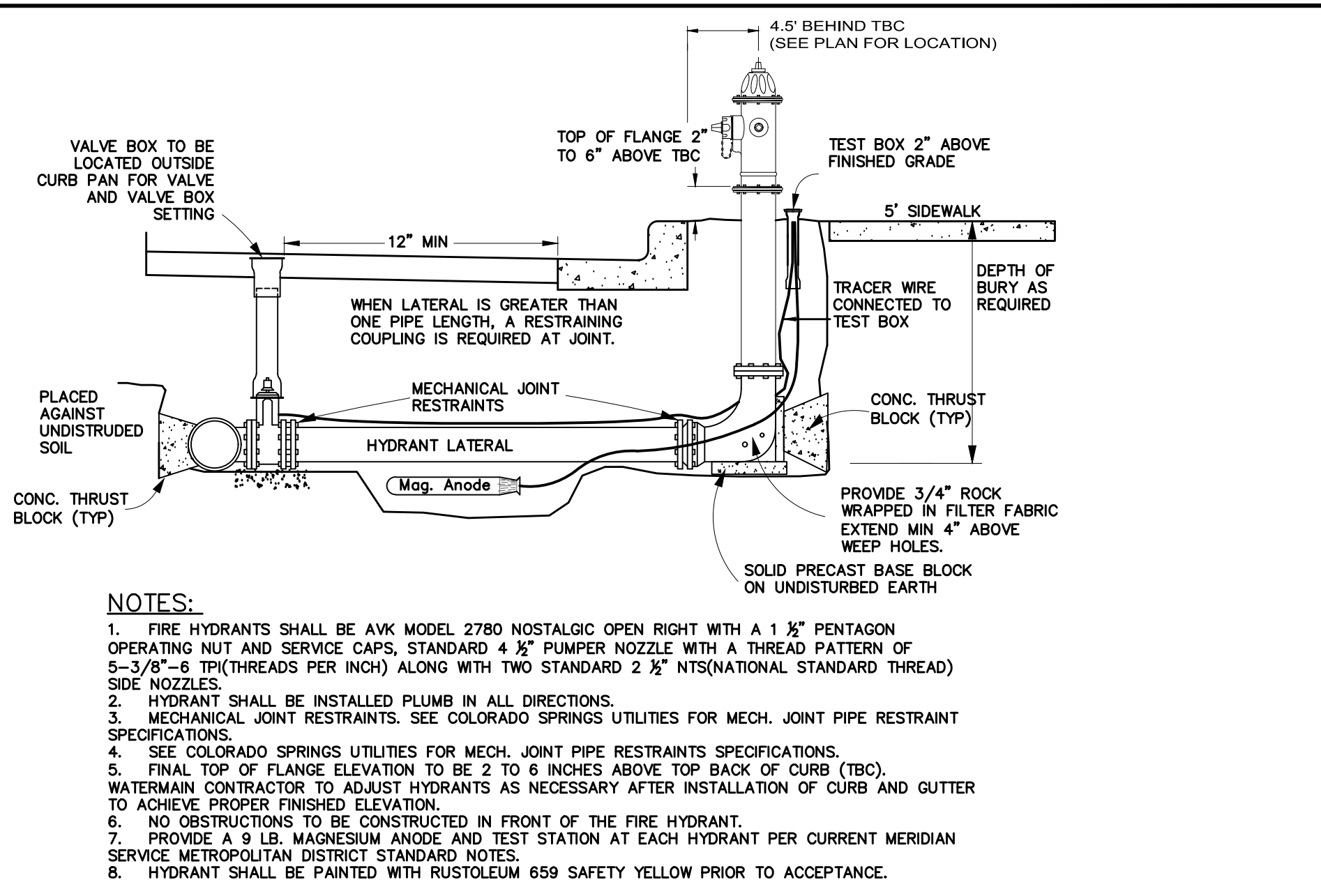
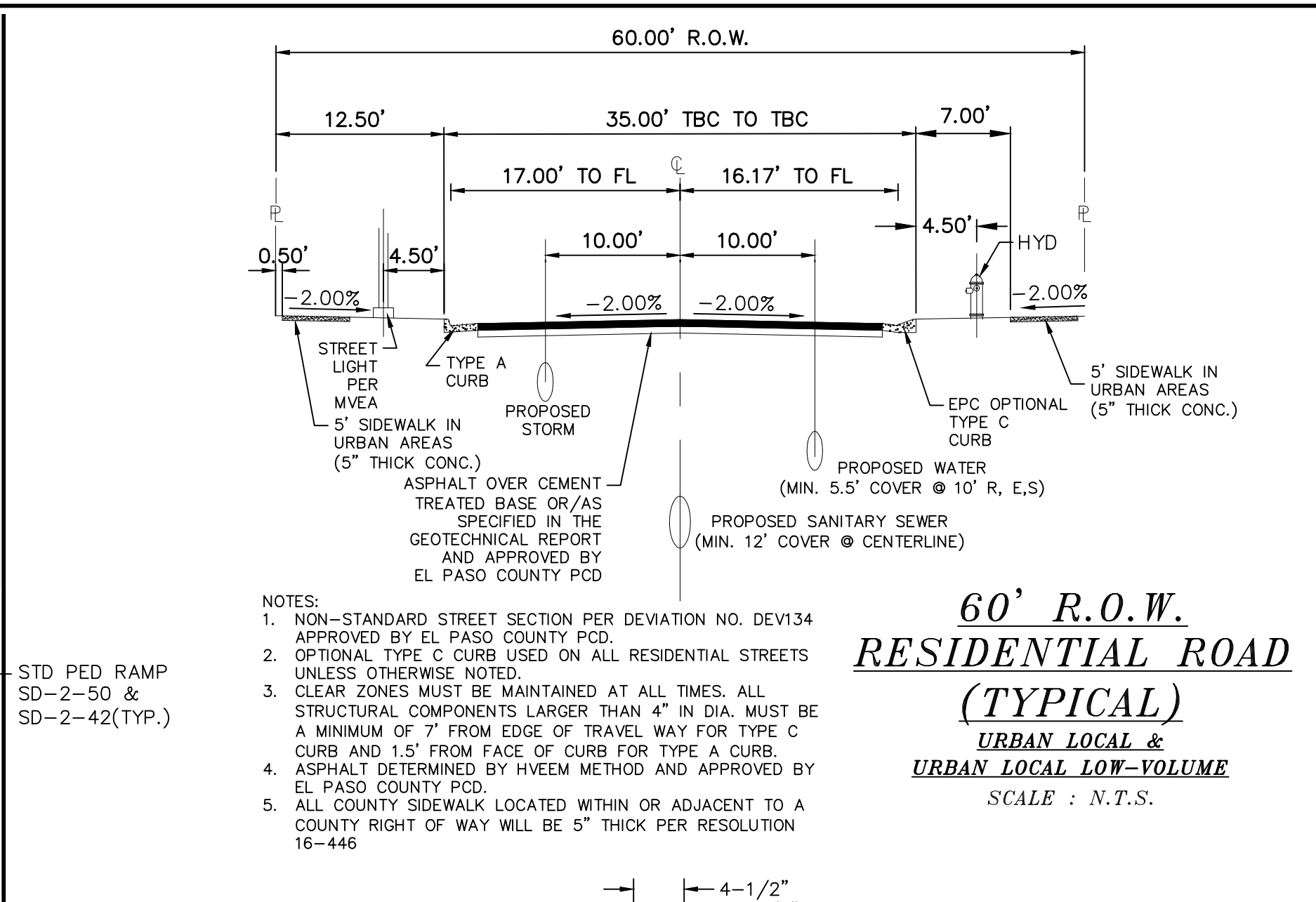
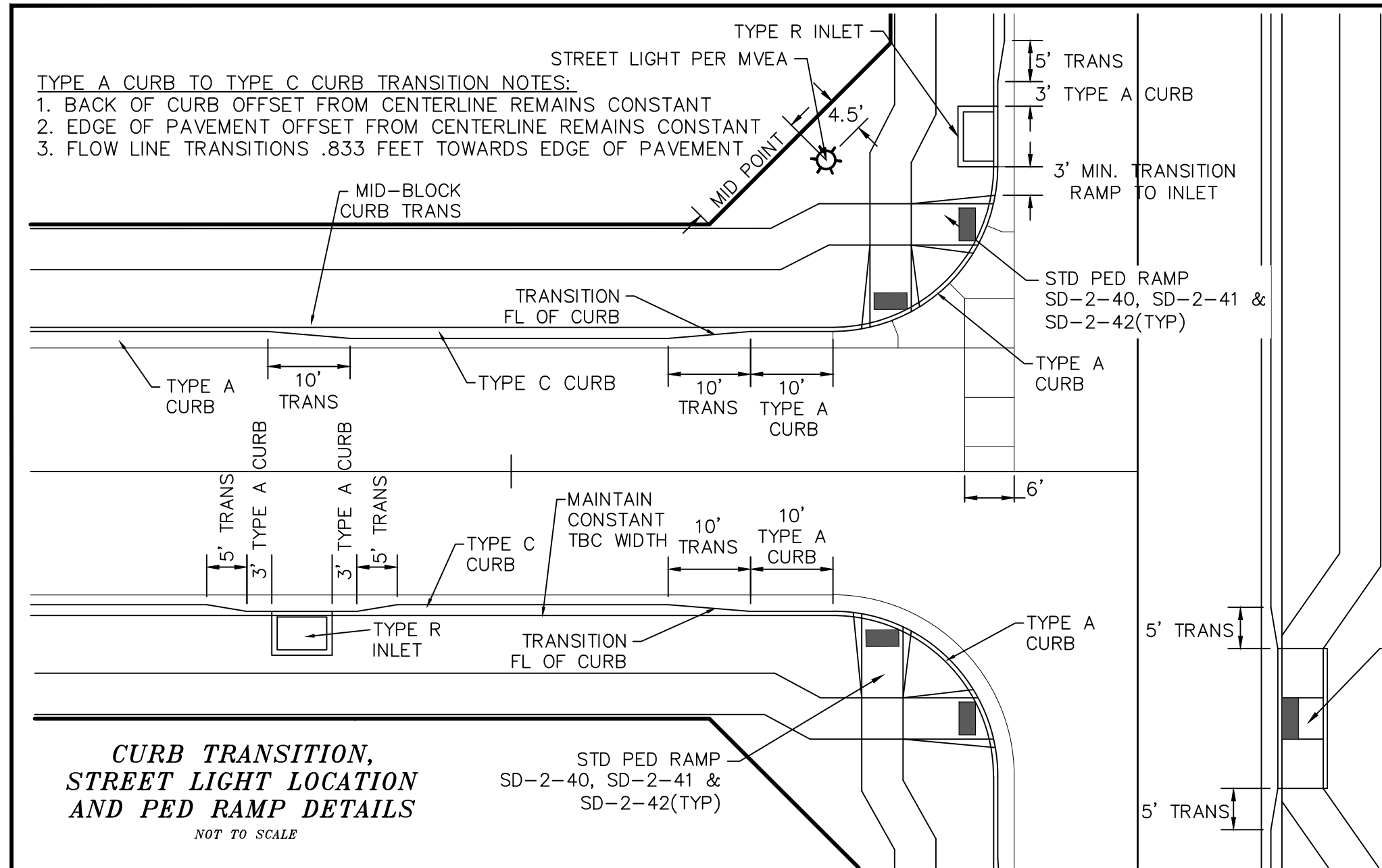
ROLLING HILLS RANCH FILING 2

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)



Scale AS SHOWN	Drawn by LOG	Checked by TAK	Date MAY 2024	ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS INDEX SHEET																		
				<p><b>MERIDIAN RANCH</b></p>																		
							<p>TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>															
				<table border="1"> <thead> <tr> <th>No.</th> <th>Revisions</th> <th>Date</th> <th>Appr.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			No.	Revisions	Date	Appr.	1				2				3			
No.	Revisions	Date	Appr.																			
1																						
2																						
3																						
4																						





**LEGEND**

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

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

**MERIDIAN RANCH**

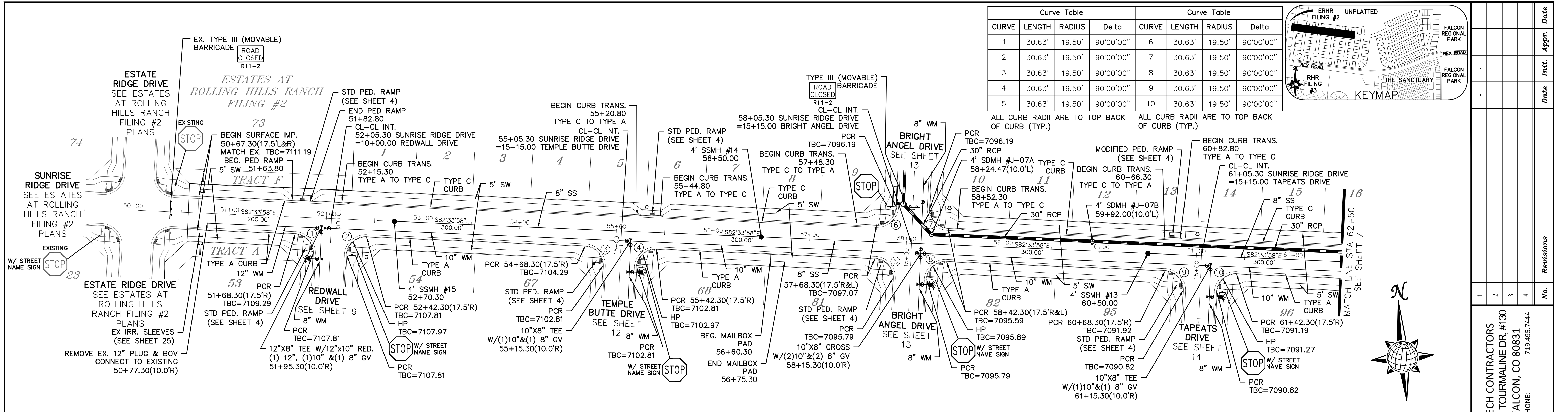
ROLLING HILLS RANCH NORTH FILING 1  
 AT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 DETAIL SHEET

Drawn by: AS SHOWN  
 Checked by: TJK  
 Date: MAY 2024

Scale: 4 of 37

Date: / /  
 Revisions: / /  
 Date: / /  
 Appr: / /



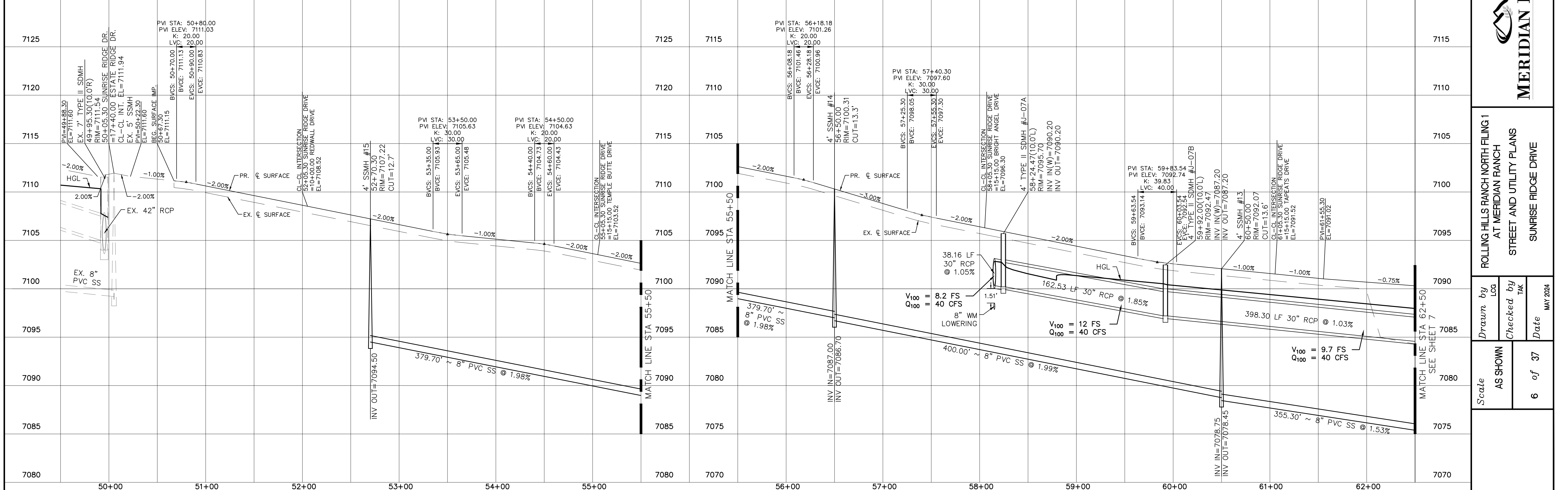
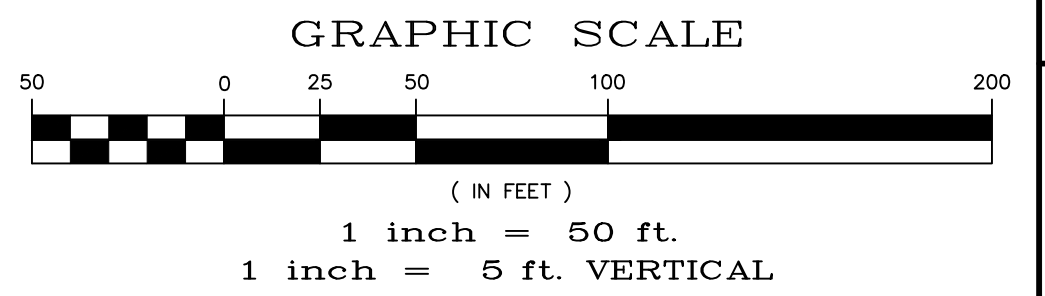


**TWO WORKING DAYS BEFORE YOU DIG CALL 811**

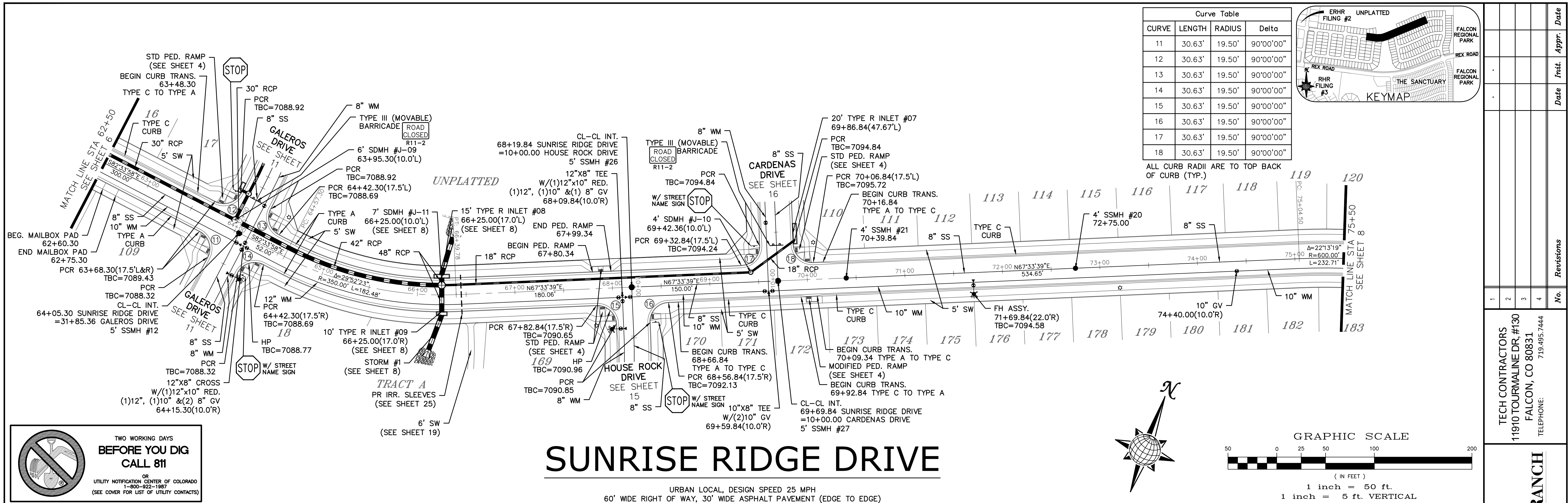
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

# SUNRISE RIDGE DRIVE

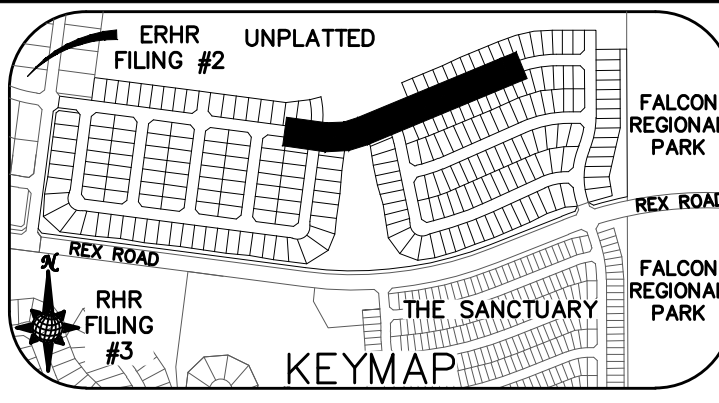
URBAN LOCAL, DESIGN SPEED 25 MPH  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



1	2	3	4	No.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
<b>MERIDIAN RANCH</b>				
ROLLING HILLS RANCH NORTH FILING #1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SUNRISE RIDGE DRIVE				
Scale	AS SHOWN	Drawn by	LOG	Checked by
				TAK
				Date
				MAY 2024
				6 of 37
				Revisions
				Date
				Appr.
				Date



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"
15	30.63'	19.50'	90°00'00"
16	30.63'	19.50'	90°00'00"
17	30.63'	19.50'	90°00'00"
18	30.63'	19.50'	90°00'00"

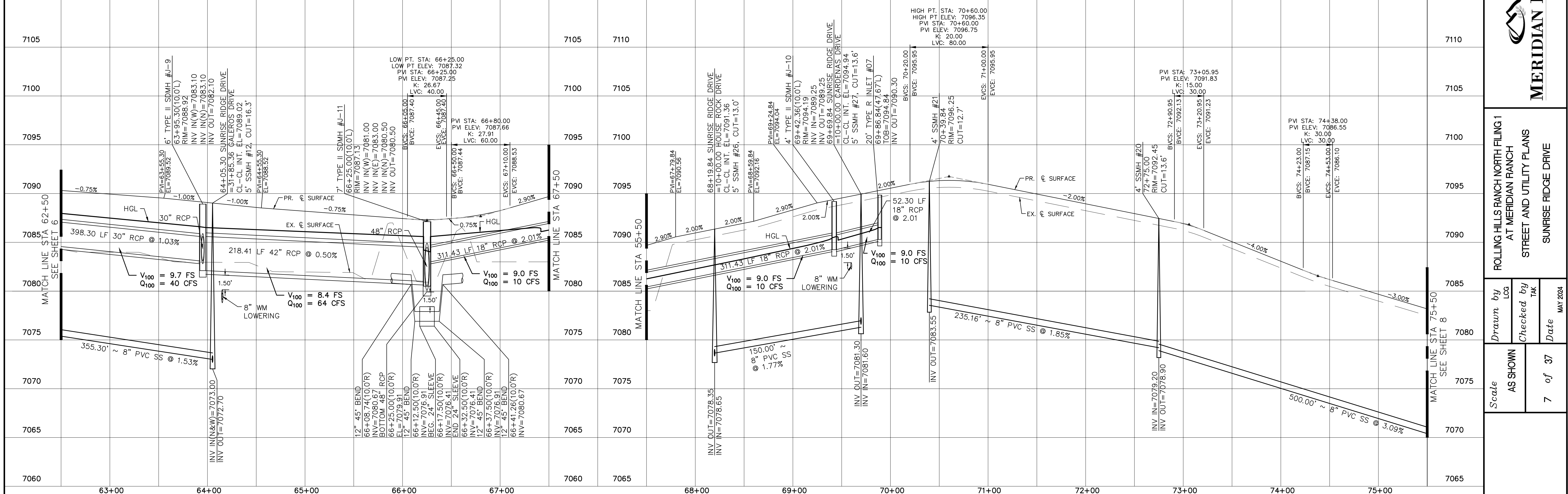
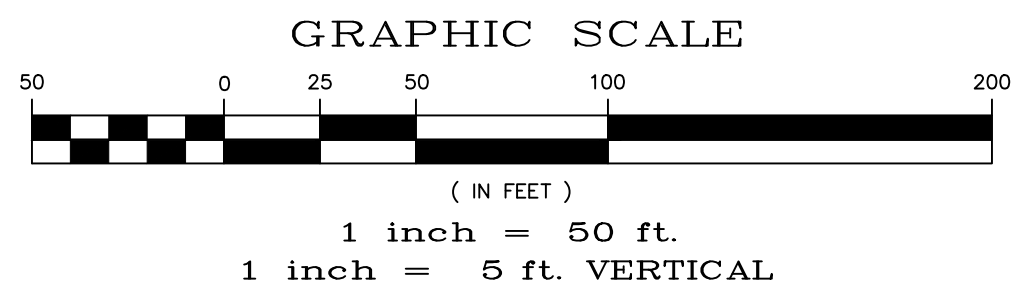
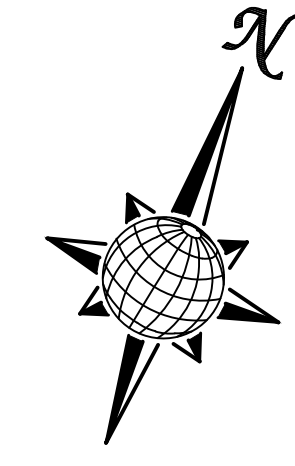


**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

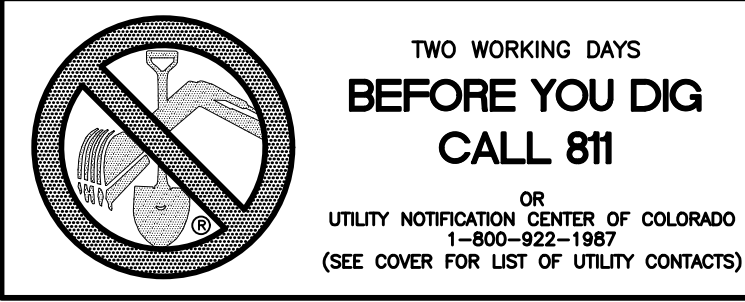
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

# SUNRISE RIDGE DRIVE

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

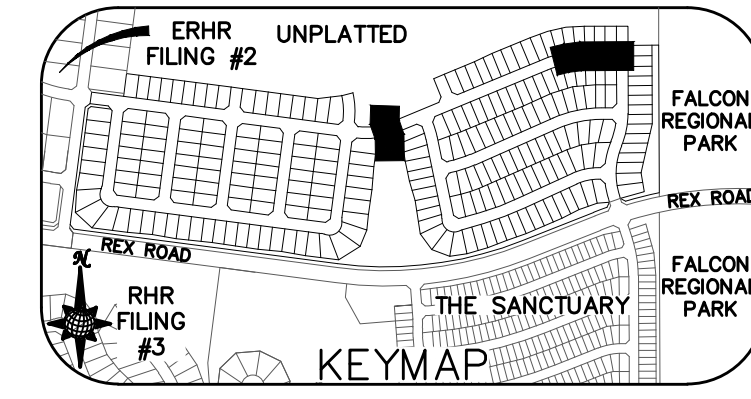
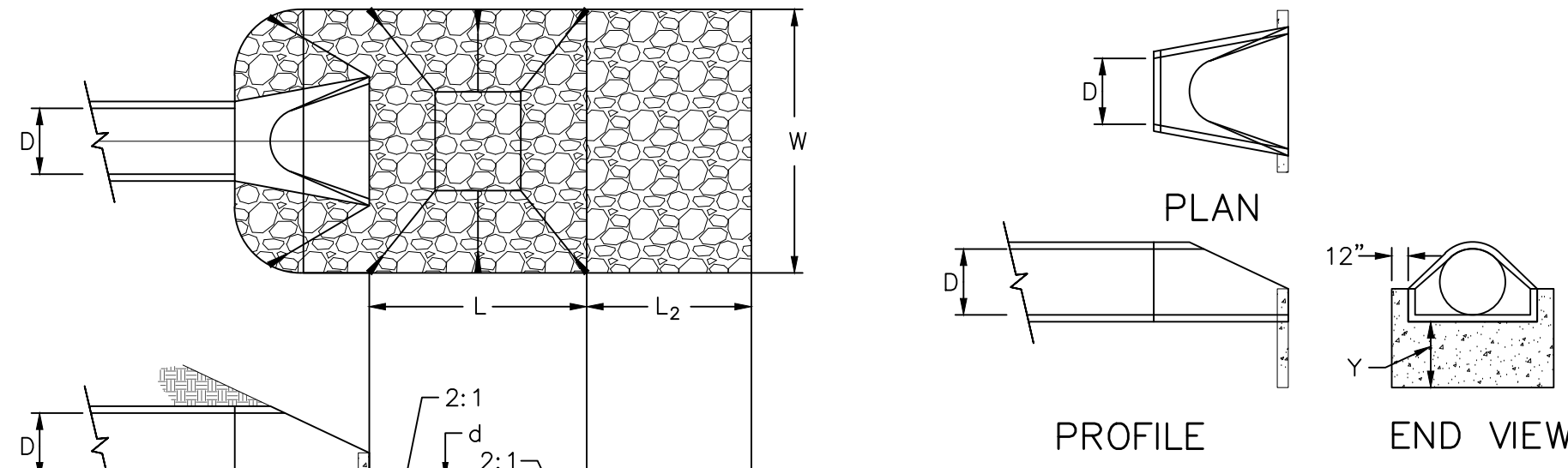


Date	Appr.	
	Revis.	
	No.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
<b>MERIDIAN RANCH</b>		
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SUNRISE RIDGE DRIVE		
Scale	AS SHOWN	7 of 37
Drawn by	LOG	
Checked by	TAK	
Date		MAY 2024



Curve Table			
CURVE	LENGTH	RADIUS	Delta
19	30.63'	19.50'	90°00'00"
20	30.63'	19.50'	90°00'00"

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



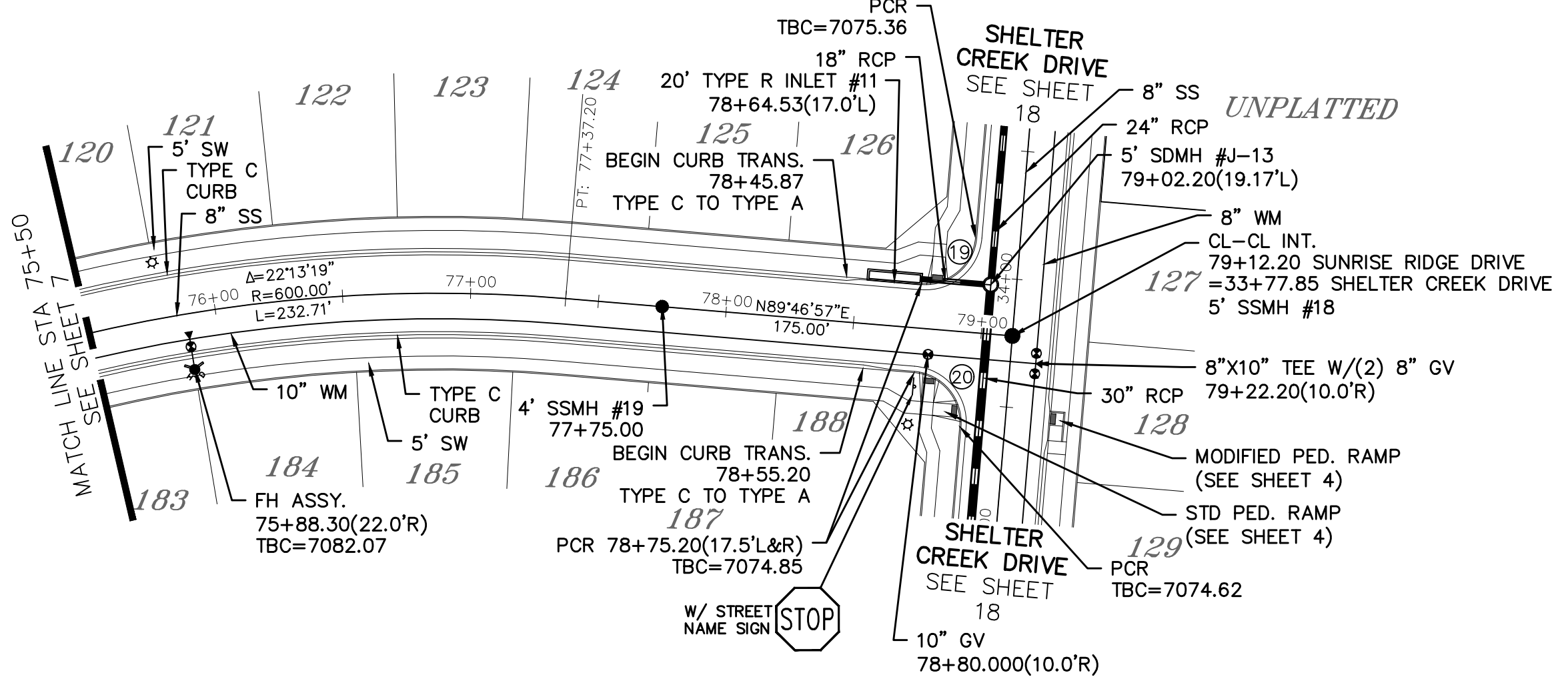
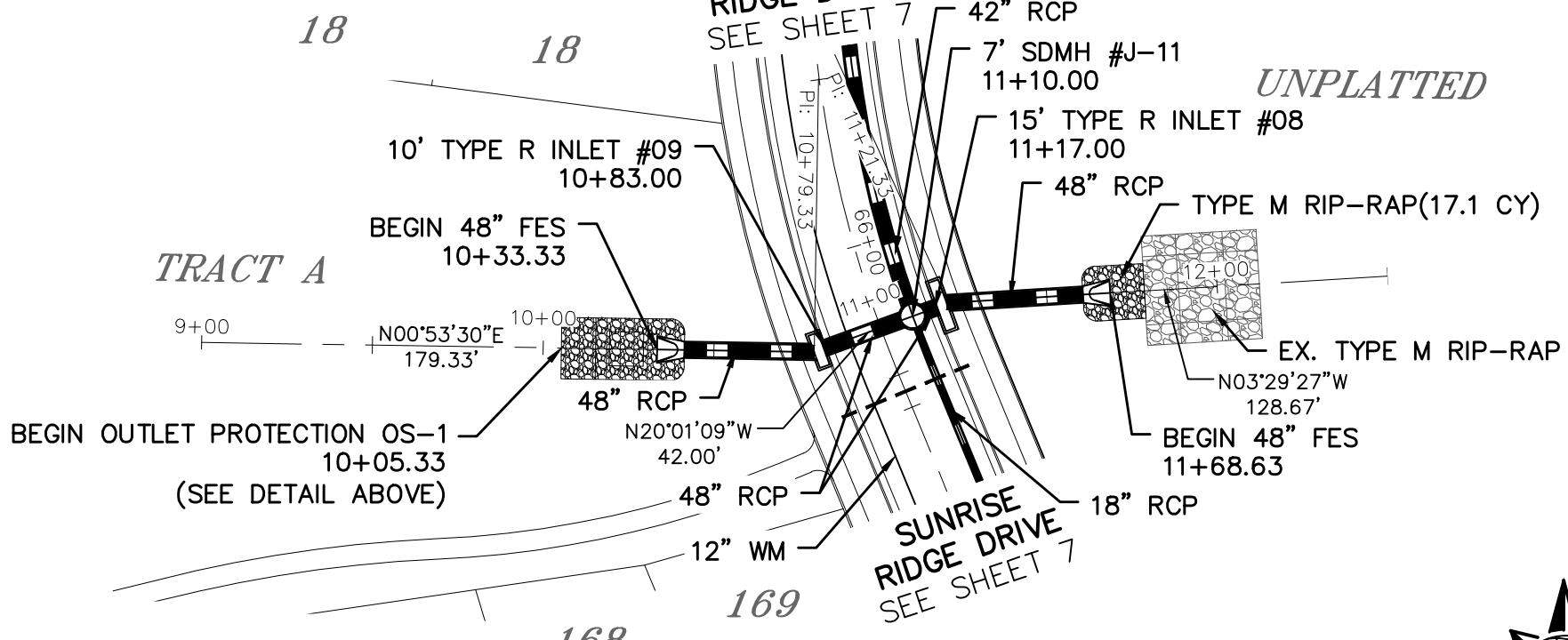
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
Figure HS-19a. Culvert Cutoff Wall

PIPE OUTLET	L	W	L <sub>2</sub>	d	Y	TYPE	D <sub>90</sub>	CY	NOTES
OS-1 48"	18	18	10	2.0	4.0	M	1.00'	43.7	SEE LEFT
OS-2 30"	11	10	20	1.25	3.0	M	1.00'	25.9	SEE LEFT

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

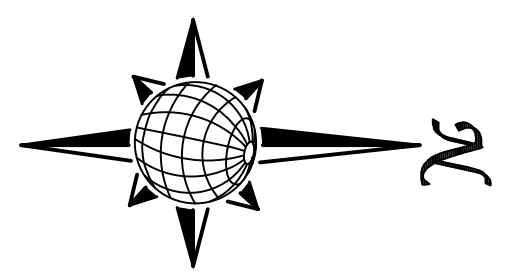
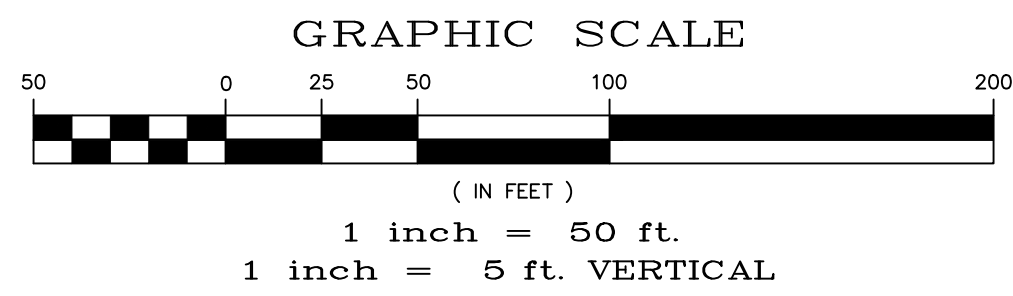
- NOTES:  
1. Flared end section required at RCP outlets.  
2. Provide joint fasteners for flared end sections.

OUTLET PROTECTION DETAIL  
NTS



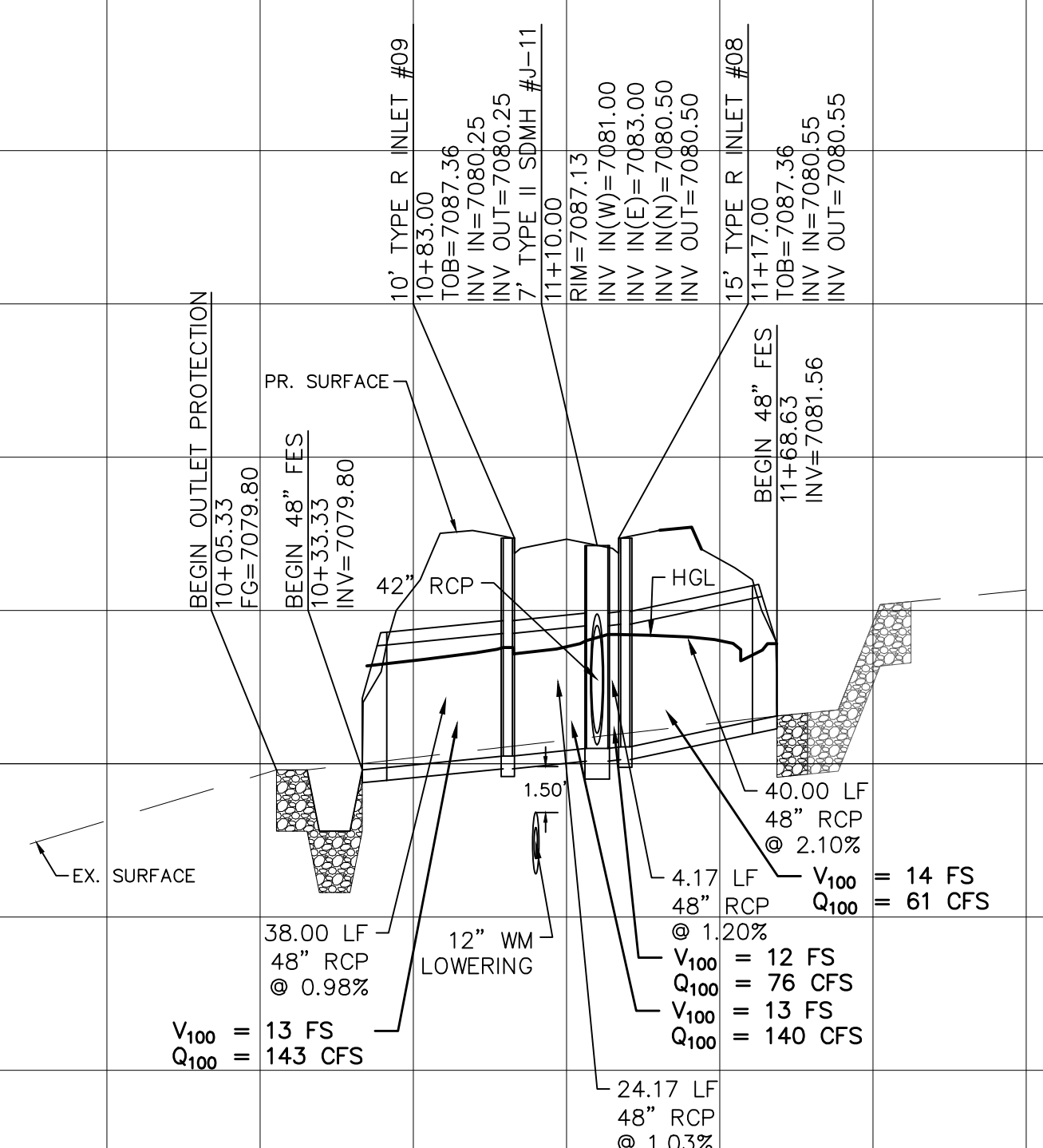
# SUNRISE RIDGE DRIVE

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



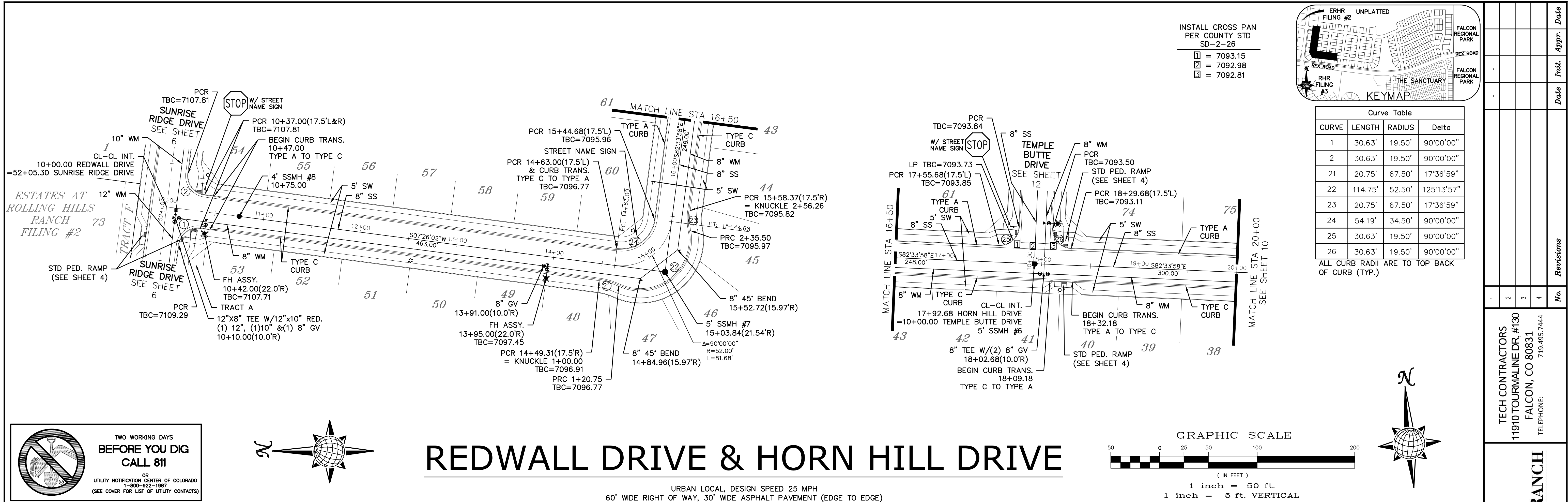
# STORM #1

Station	Profile	Notes	Station	Profile	Notes
7090		PVI STA: 78+06.00 PVI ELEV: 7075.51 K: 30.00 LVC: 60.00	7090	7105	
7085			7085	7100	
7080			7080	7095	
7075			7075	7090	
7070			7070	7085	
7065			7065	7080	
7060			7060	7075	
7055			7055	7070	
7050			7050	7065	
7045			7045	7060	



Date	Appr.	Date	Reit.
No.	TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
<b>MERIDIAN RANCH</b>			
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SUNRISE RIDGE DRIVE AND STORM #1			
Scale	AS SHOWN	8 of 37	Date
Drawn by	LOG	Checked by	TAK
			MAY 2024



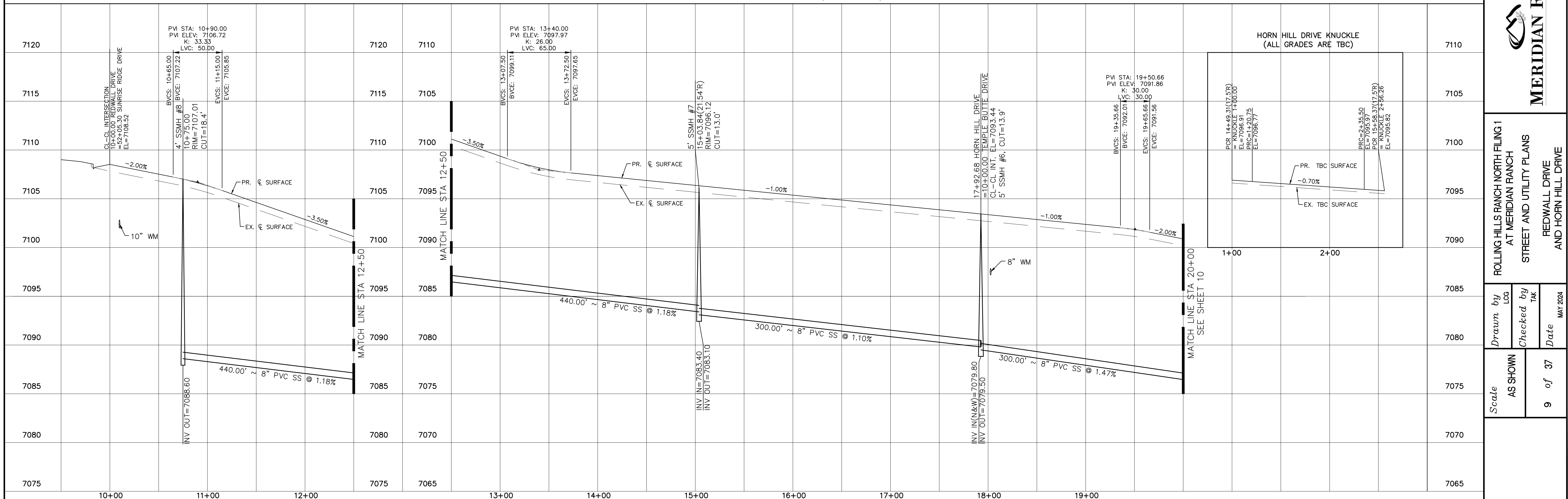


**TWO WORKING DAYS BEFORE YOU DIG CALL 811**

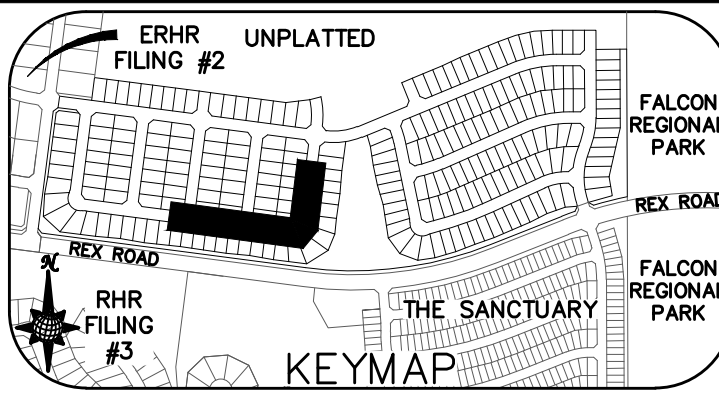
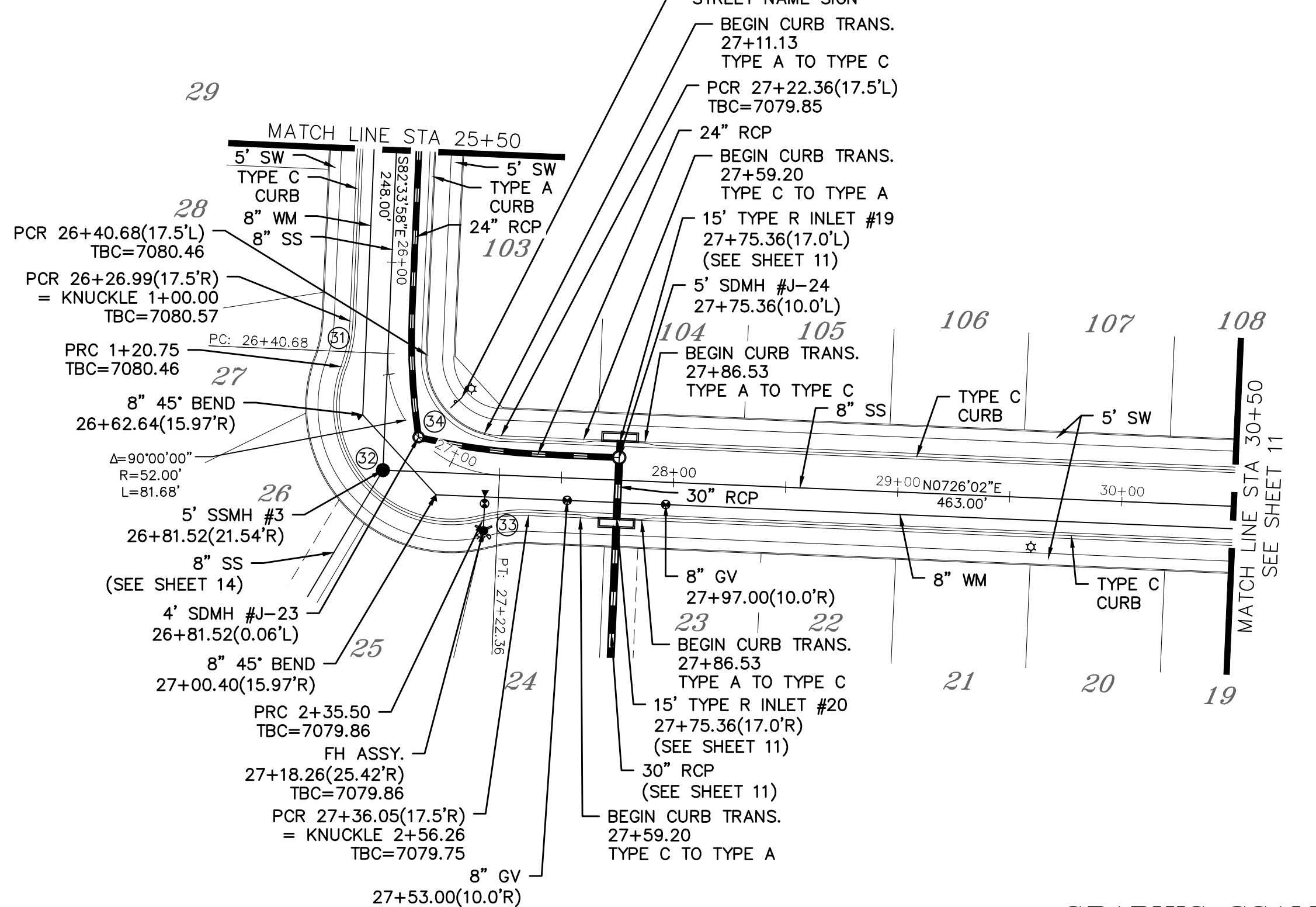
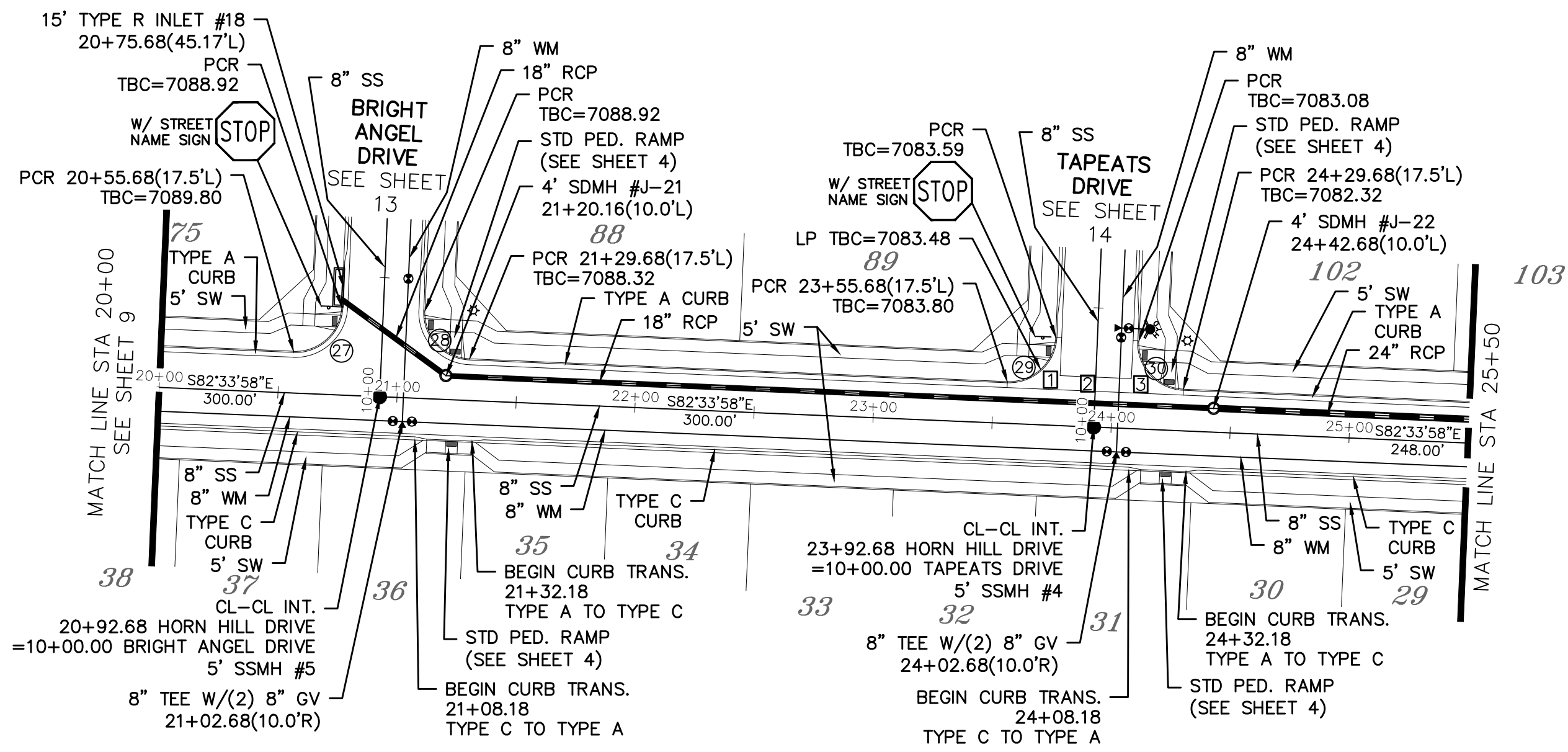
OR  
 UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-922-1987  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

# REDWALL DRIVE & HORN HILL DRIVE

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



1	2	3	4	No.	Revisions
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
<b>MERIDIAN RANCH</b> 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	Drawn by LOG	Checked by TAK	Date MAY 2024



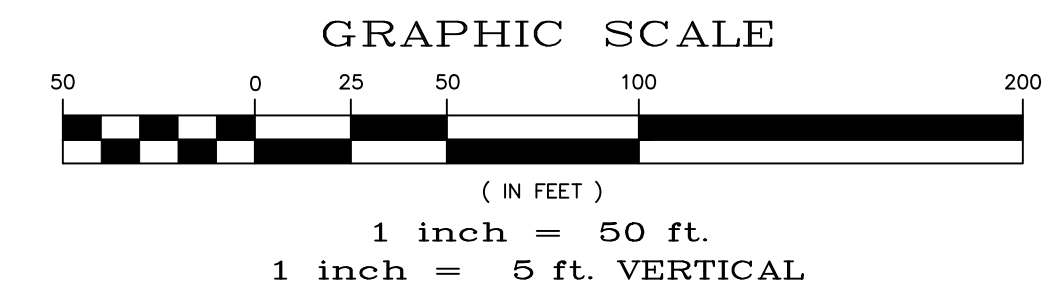
CURVE	LENGTH	RADIUS	Delta
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28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	30.63'	19.50'	90°00'00"
31	20.75'	67.50'	17°36'59"
32	114.75'	52.50'	125°13'57"
33	20.75'	67.50'	17°36'59"
34	54.19'	34.50'	90°00'00"

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

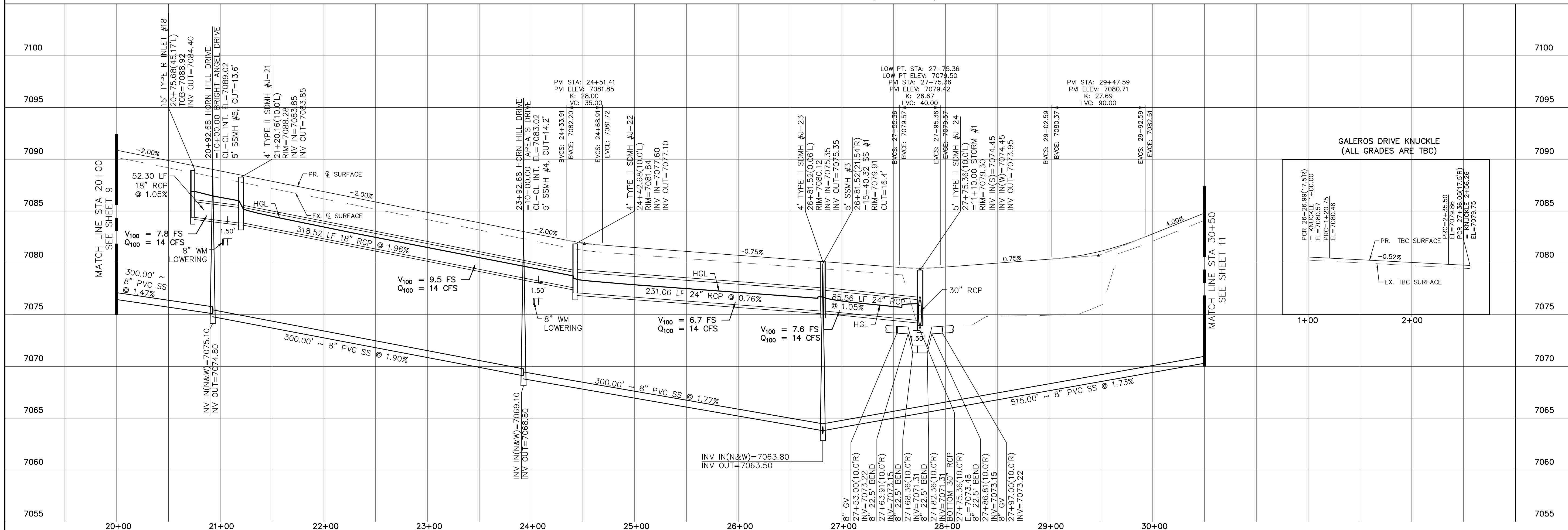
# HORN HILL DRIVE & GALEROS DRIVE

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



**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  
HORN HILL DRIVE  
AND GALEROS DRIVE

Drawn by: LOG  
Checked by: TAK  
Date: MAY 2024

Scale: AS SHOWN  
10 of 37

PCD PROJECT NO. SF2411









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

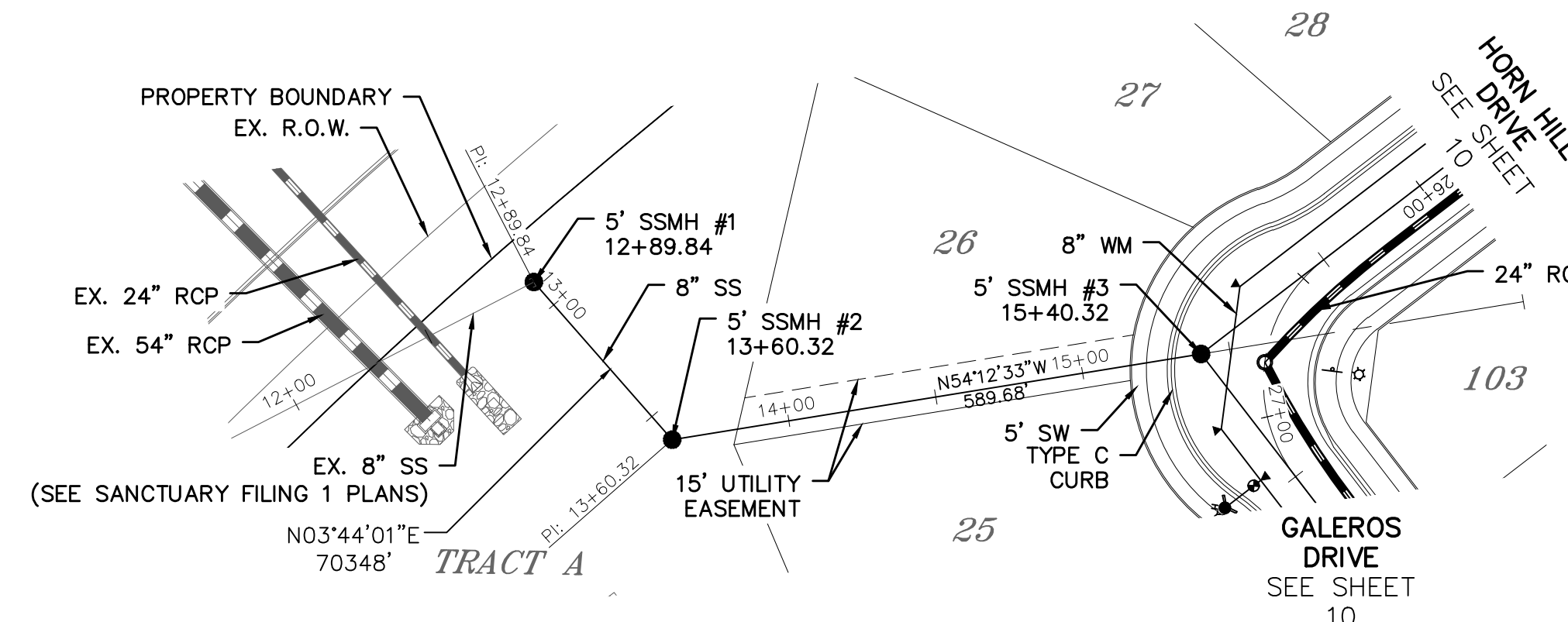
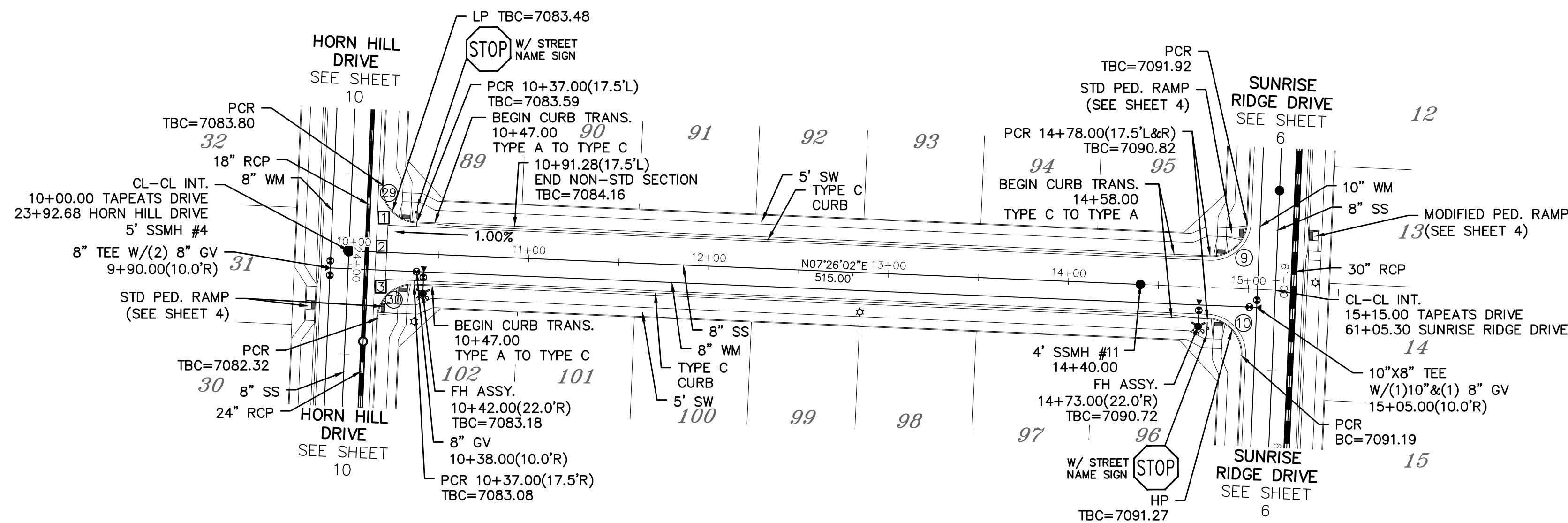
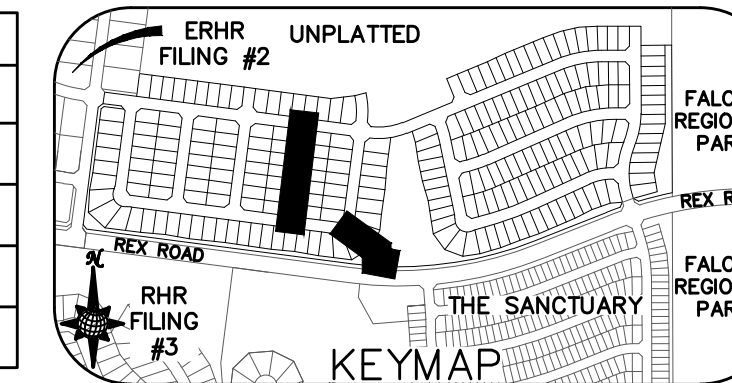
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

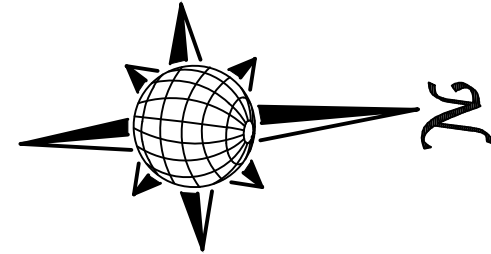
- ☐ = 7082.90
- ☑ = 7082.56
- ☒ = 7082.22

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"

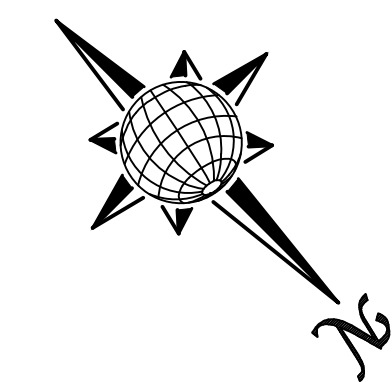
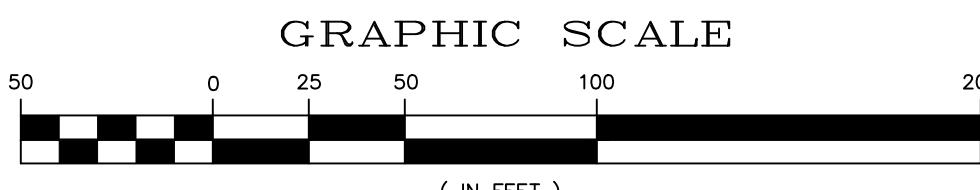
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



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



# TAPEATS DRIVE



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

Station	Profile	Vertical Curve Data	Utility Details	Notes
7100	7110	PVI STA: 11+01.28 PVI ELEV: 7084.33 K: 20.00 LVC: 28.00 BVCS: 10+91.28 BVCE: 7084.13 EVCS: 11+11.28 EVCE: 7084.43		
7095	7105	PVI STA: 14+44.30 PVI ELEV: 7090.11 K: 20.00 LVC: 20.00 BVCS: 14+34.30 BVCE: 7089.81 EVCS: 14+54.30 EVCE: 7090.31		
7090	7100	PVI STA: 13+26.86 PVI ELEV: 7086.59 K: 30.00 LVC: 60.00 BVCS: 12+96.86 BVCE: 7086.29 EVCS: 13+56.86 EVCE: 7087.49		
7085	7095	PVI STA: 14+40.00 PVI ELEV: 7089.97 K: 20.00 LVC: 20.00 BVCS: 14+30.00 BVCE: 7089.81 EVCS: 14+50.00 EVCE: 7090.11		
7080	7090			
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><b>MERIDIAN RANCH</b></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		Date	
Drawn by		LOG		Checked by		TAK	
						MAY 2024	

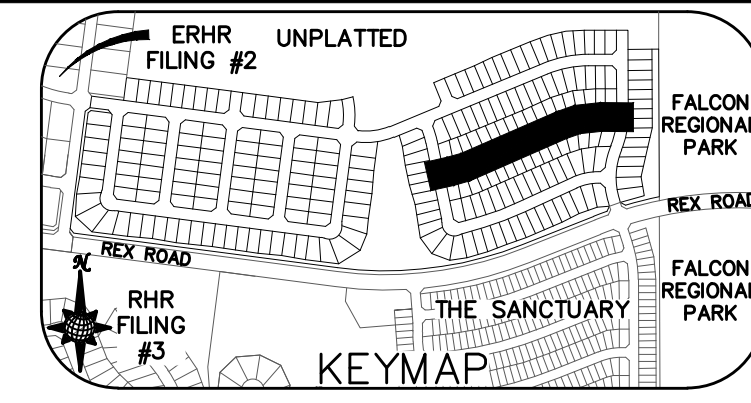






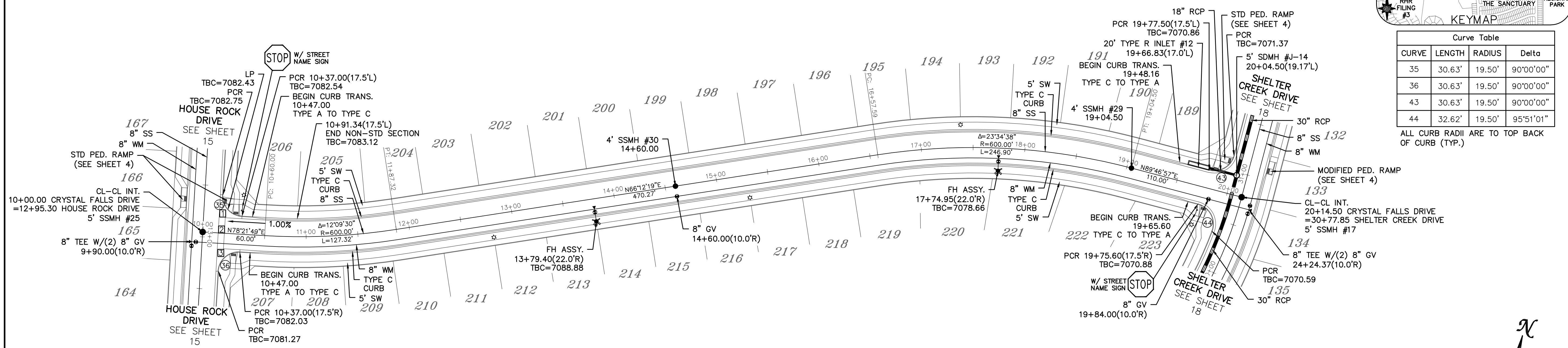
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

1 = 7081.85  
2 = 7081.51  
3 = 7081.17



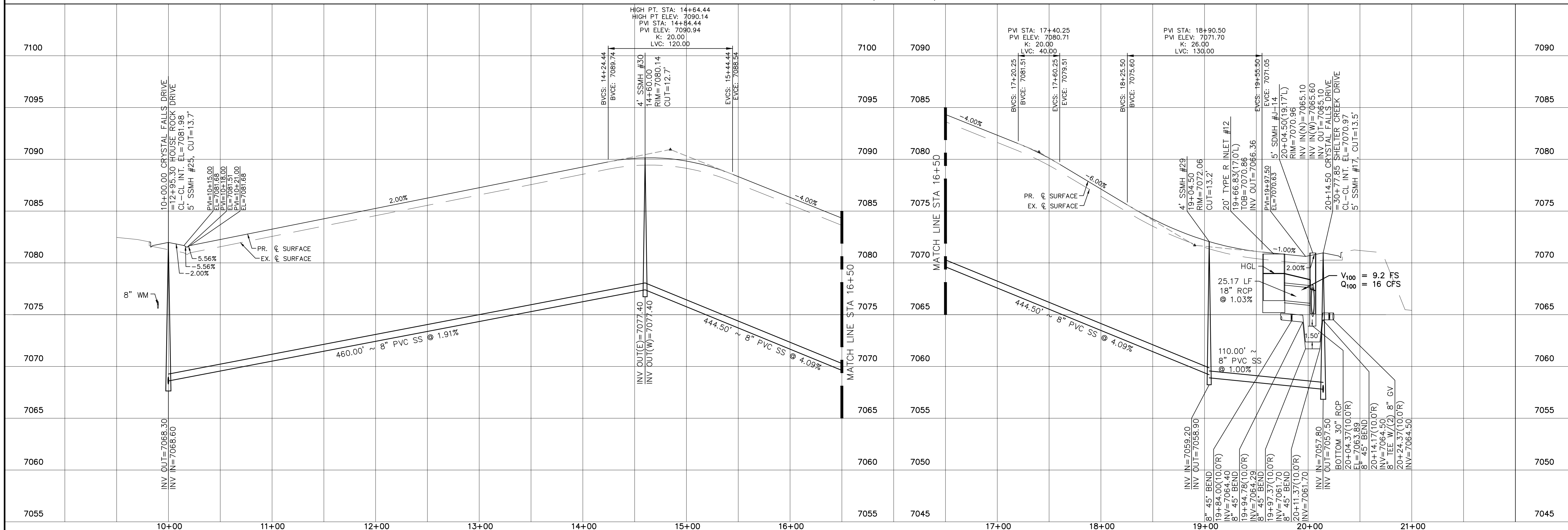
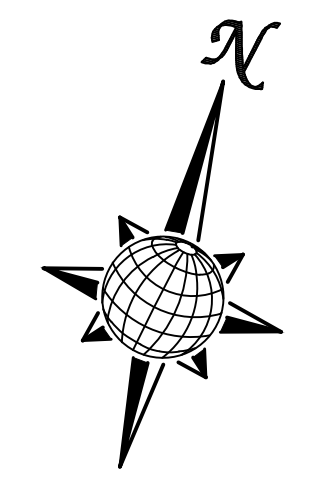
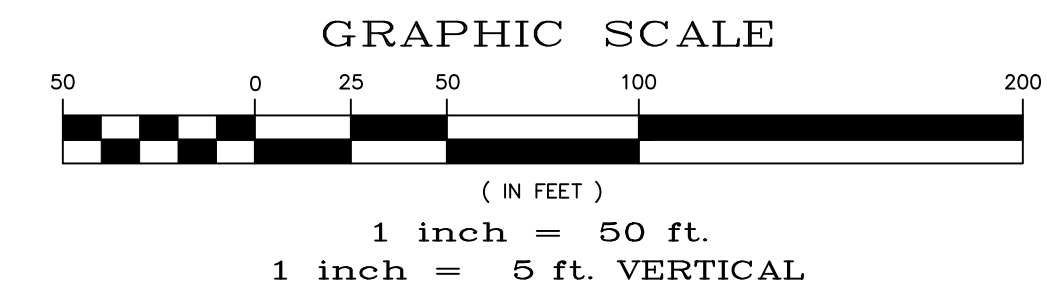
Curve Table			
CURVE	LENGTH	RADIUS	Delta
35	30.63'	19.50'	90°00'00"
36	30.63'	19.50'	90°00'00"
43	30.63'	19.50'	90°00'00"
44	32.62'	19.50'	95°51'01"

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

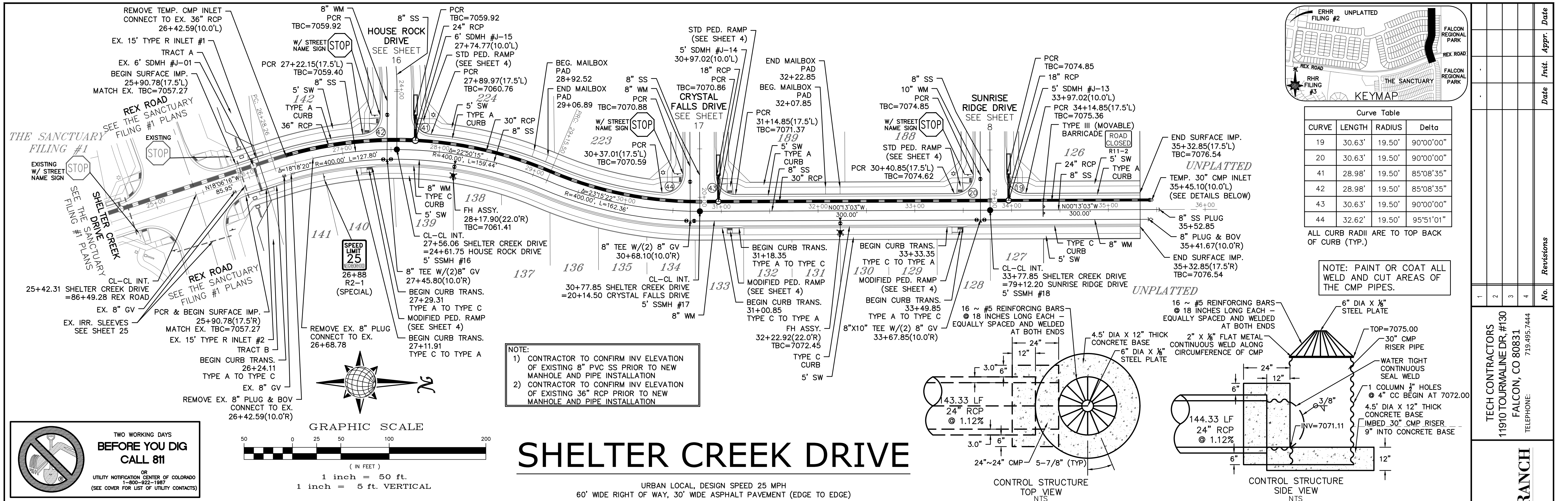


# CRYSTAL FALLS DRIVE

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

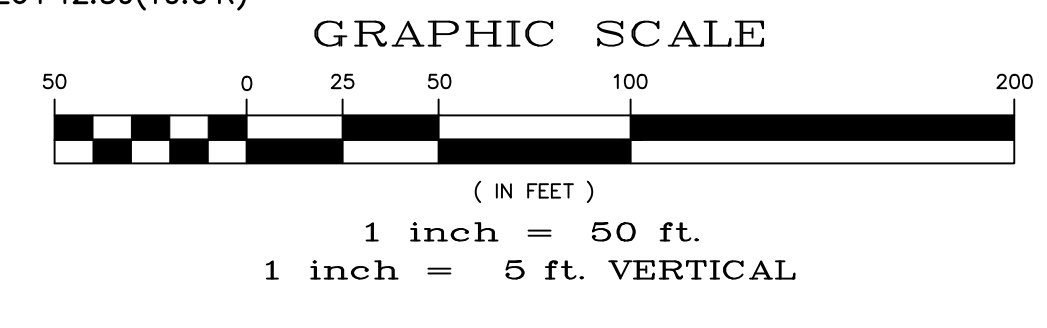


Date	Appr.	Date	Invt.
No.	Revisions		
1			
2			
3			
4			
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444			
<b>MERIDIAN RANCH</b>			
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS CRYSTAL FALLS DRIVE			
Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	MAY 2024
17 of 37			



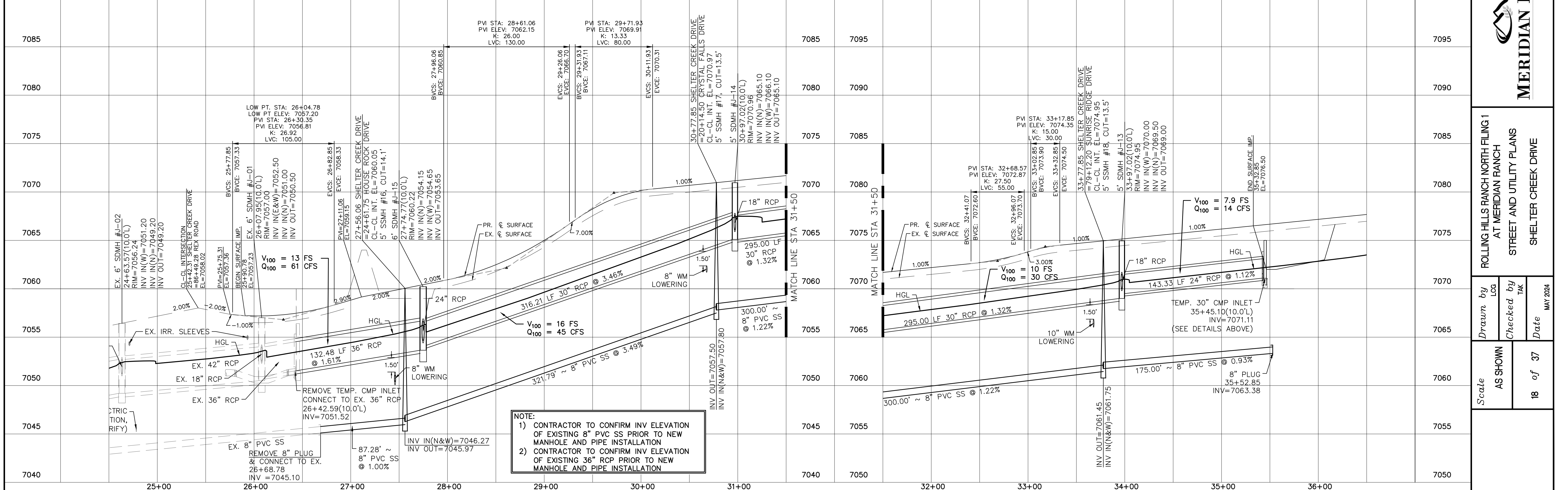
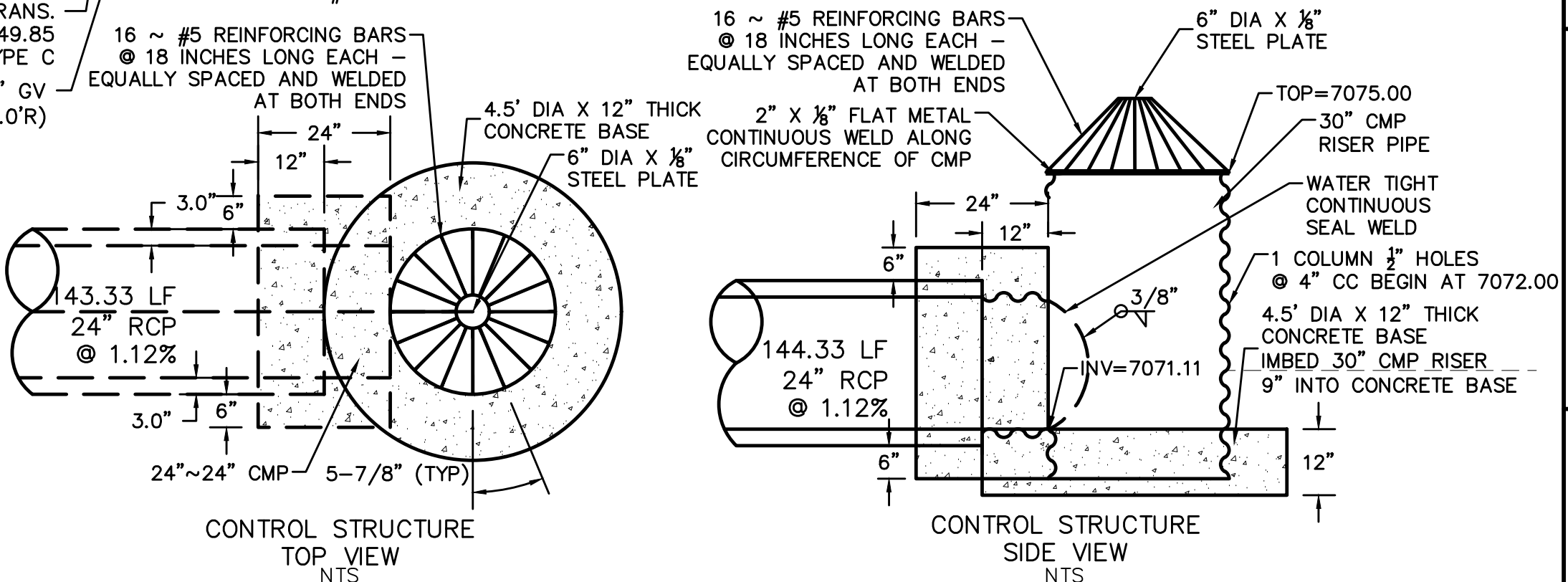
**BEFORE YOU DIG CALL 811**

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



# SHELTER CREEK DRIVE

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



No.	Revisions	Date	Appr.	Date
1				
2				
3				
4				

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

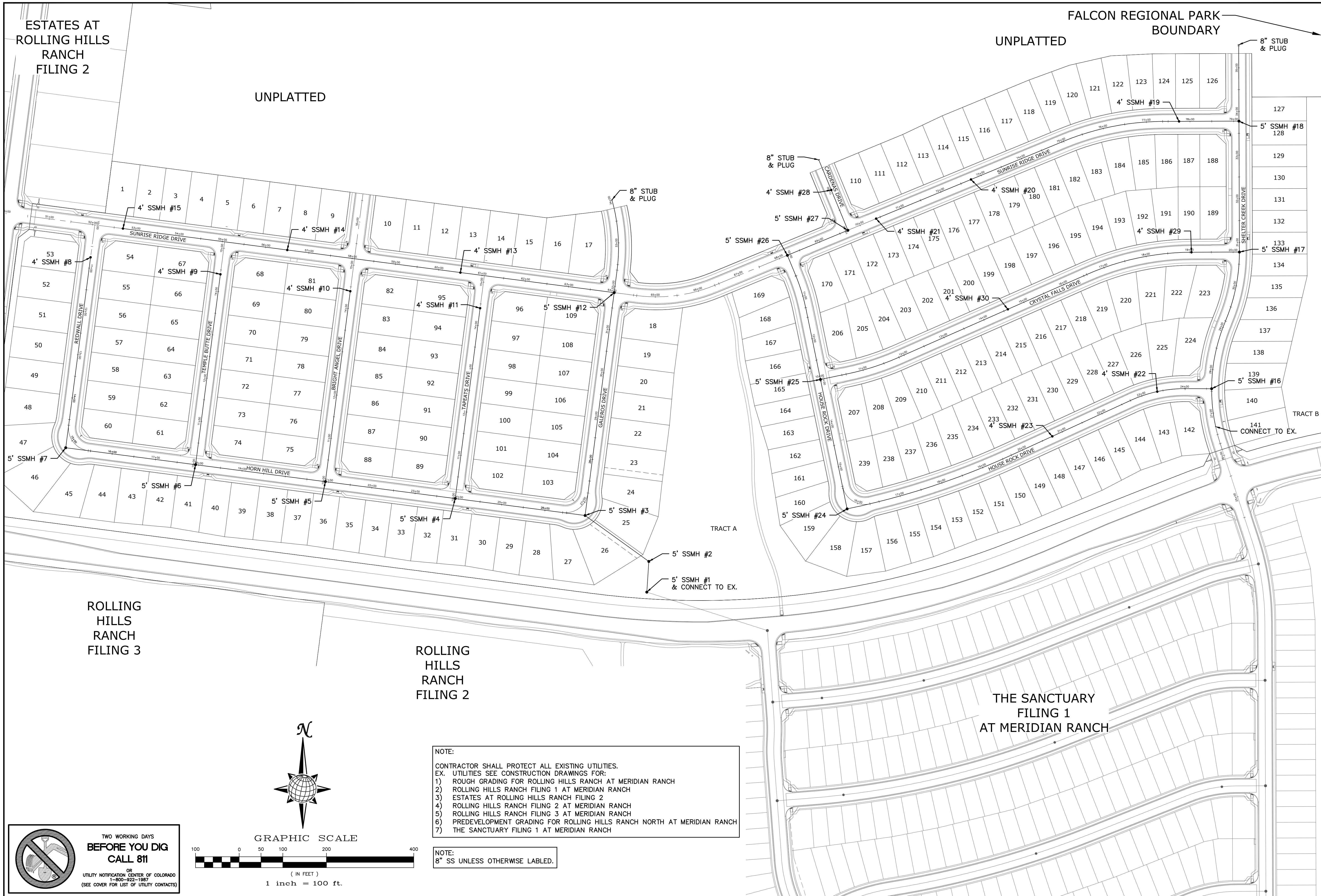
**MERIDIAN RANCH**

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

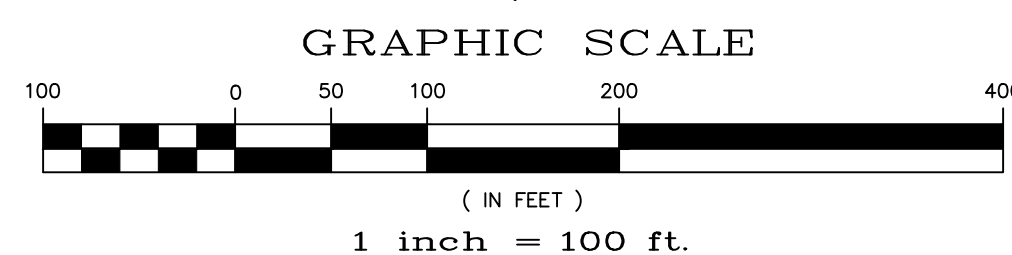
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 Drawn by: LOG  
 Checked by: TJK  
 Date: MAY 2024  
 18 of 37

PCD PROJECT NO. SF2411





**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)



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

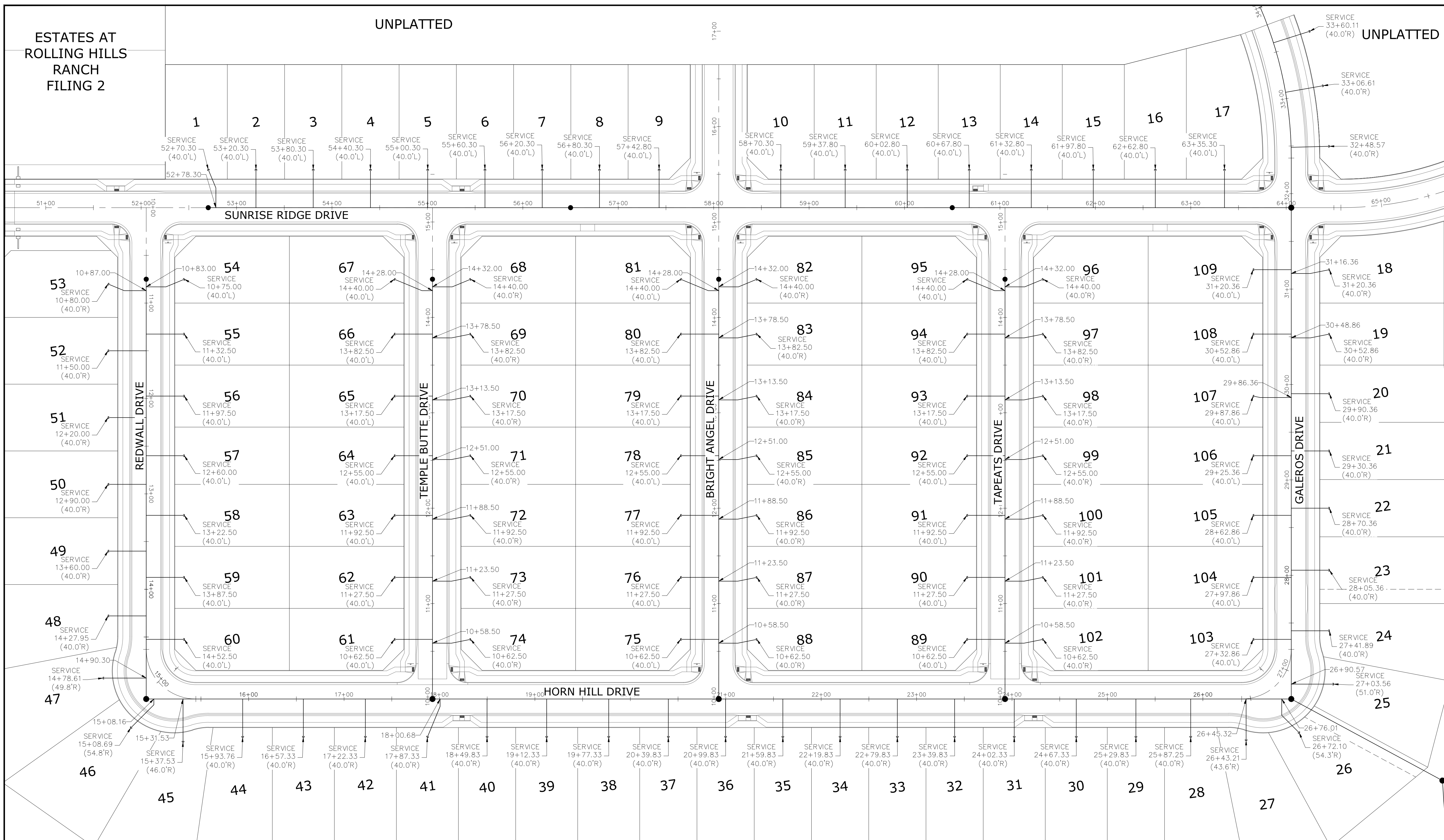
NOTE:  
 8" SS UNLESS OTHERWISE LABELED.

1		2		3		4	
No.		No.		No.		No.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444							
<b>MERIDIAN RANCH</b>							
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER							
Drawn by	LOG	Checked by	TAK	Date	MAY 2024		
Scale	AS SHOWN			20	of 37		
Date		Revisions		Appr.		Date	

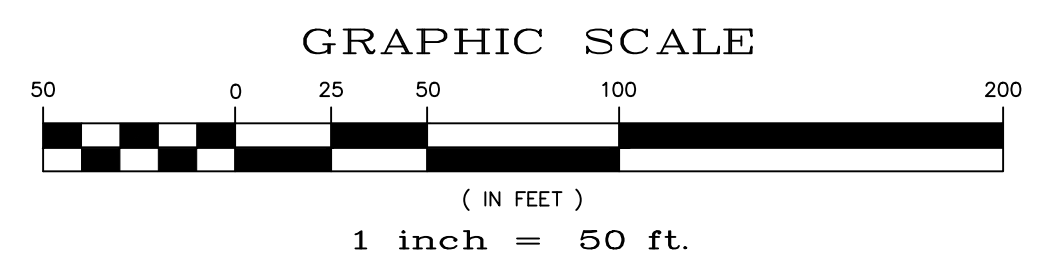
ESTATES AT  
ROLLING HILLS  
RANCH  
FILING 2

UNPLATTED

UNPLATTED



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

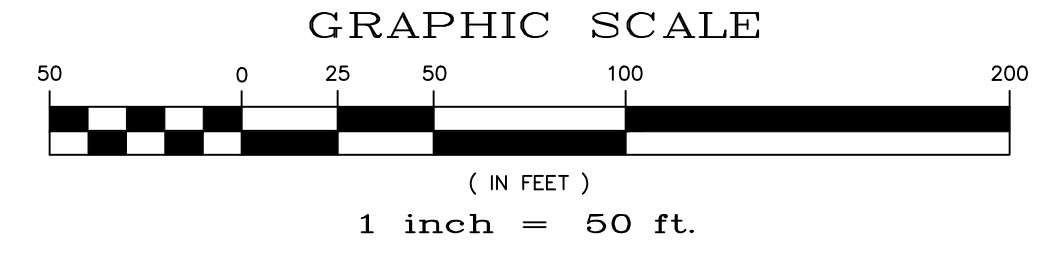
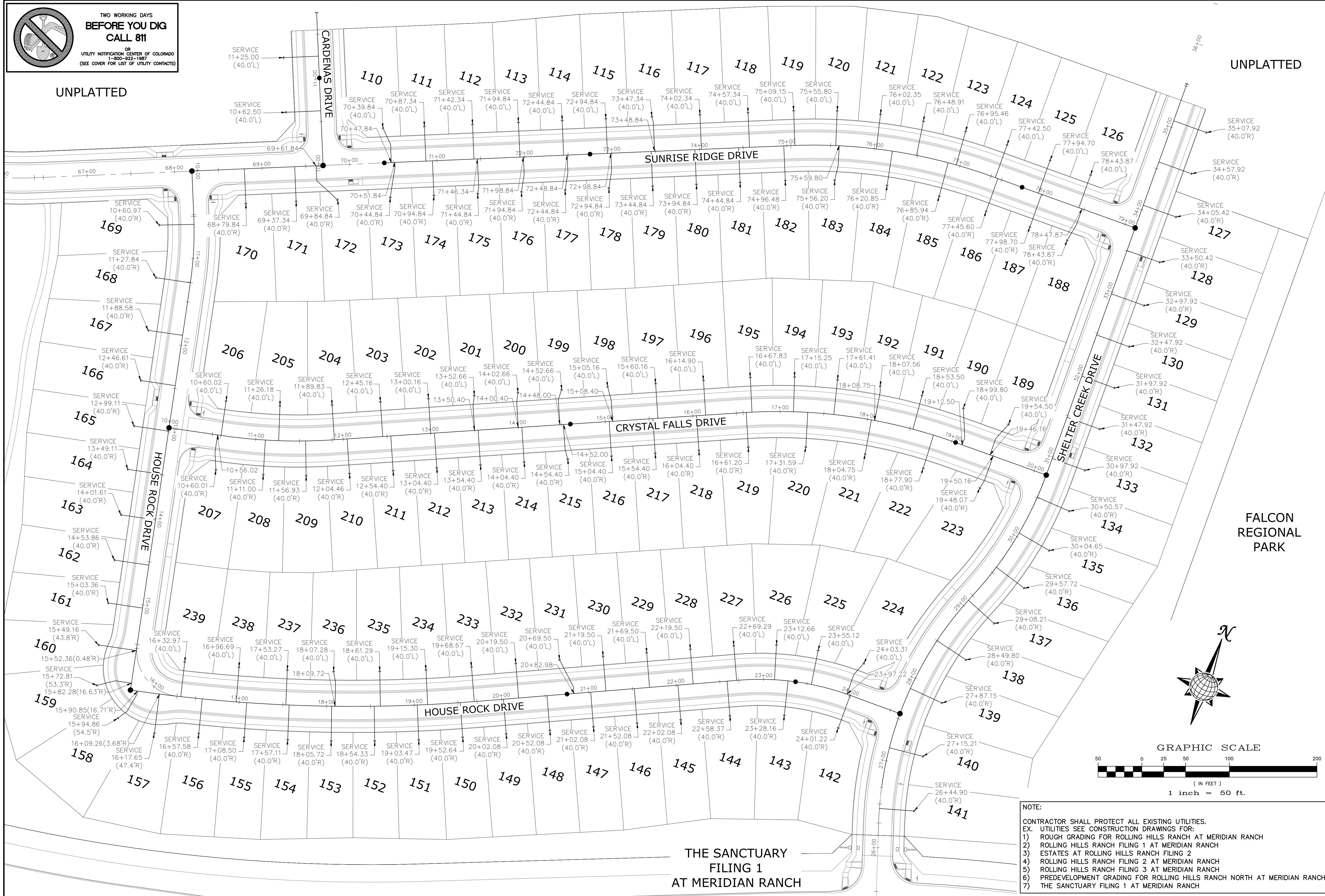


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5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH  
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH  
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

Scale	AS SHOWN	21 of 37		
Drawn by	Log	Checked by		
		TAK		
Date		MAY 2024		
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES				
<p><b>MERIDIAN RANCH</b></p>				
<p>TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>				
No.	1	2	3	4
Revisions				
Date				
Appr.				



**TWO WORKING DAYS  
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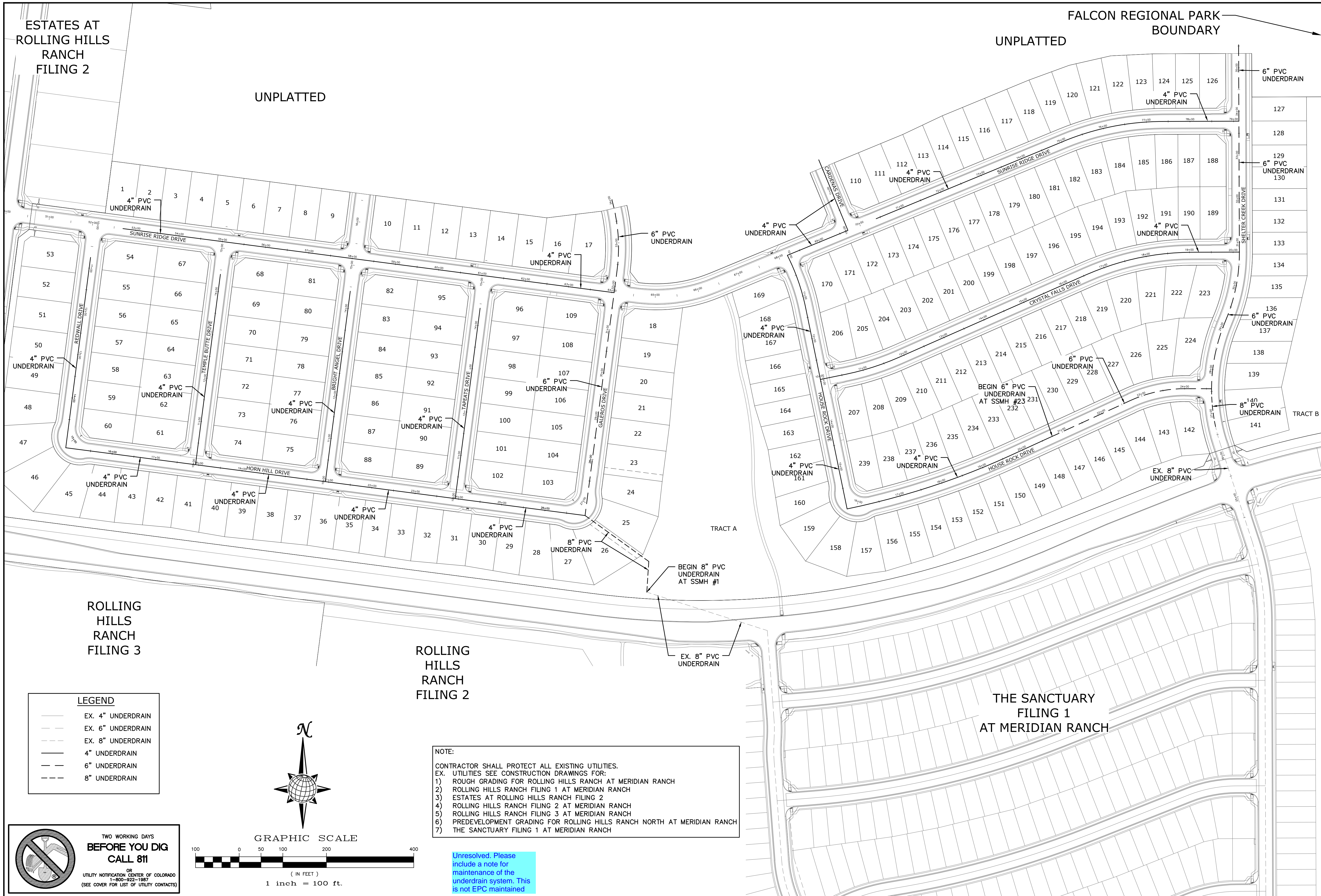
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5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH  
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH  
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

Scale	AS SHOWN	22 of 37	Date	MAY 2024
Drawn by	LOG	Checked by	TAK	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES				
<b>MERIDIAN RANCH</b>				
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



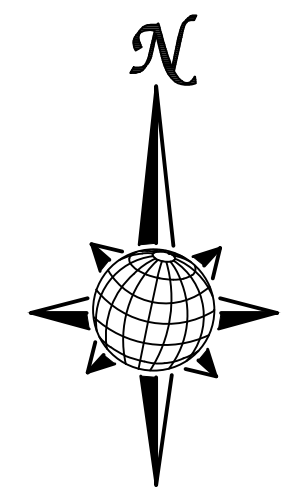
ROLLING HILLS RANCH FILING 3

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

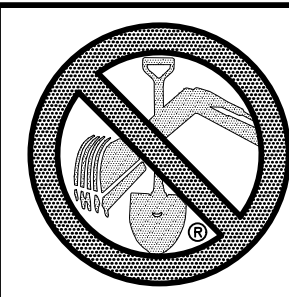


( IN FEET )  
1 inch = 100 ft.

**NOTE:**

- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
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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

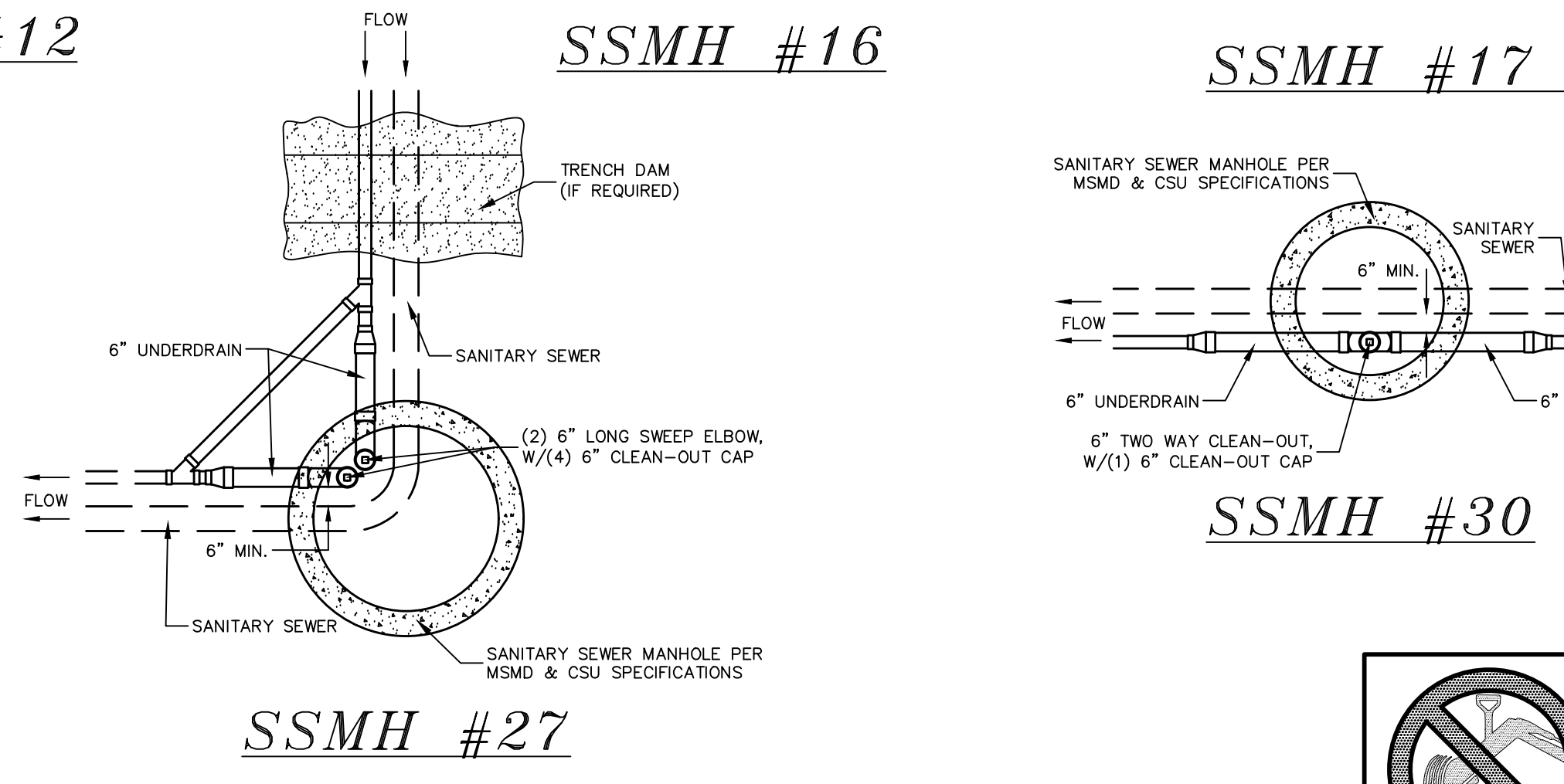
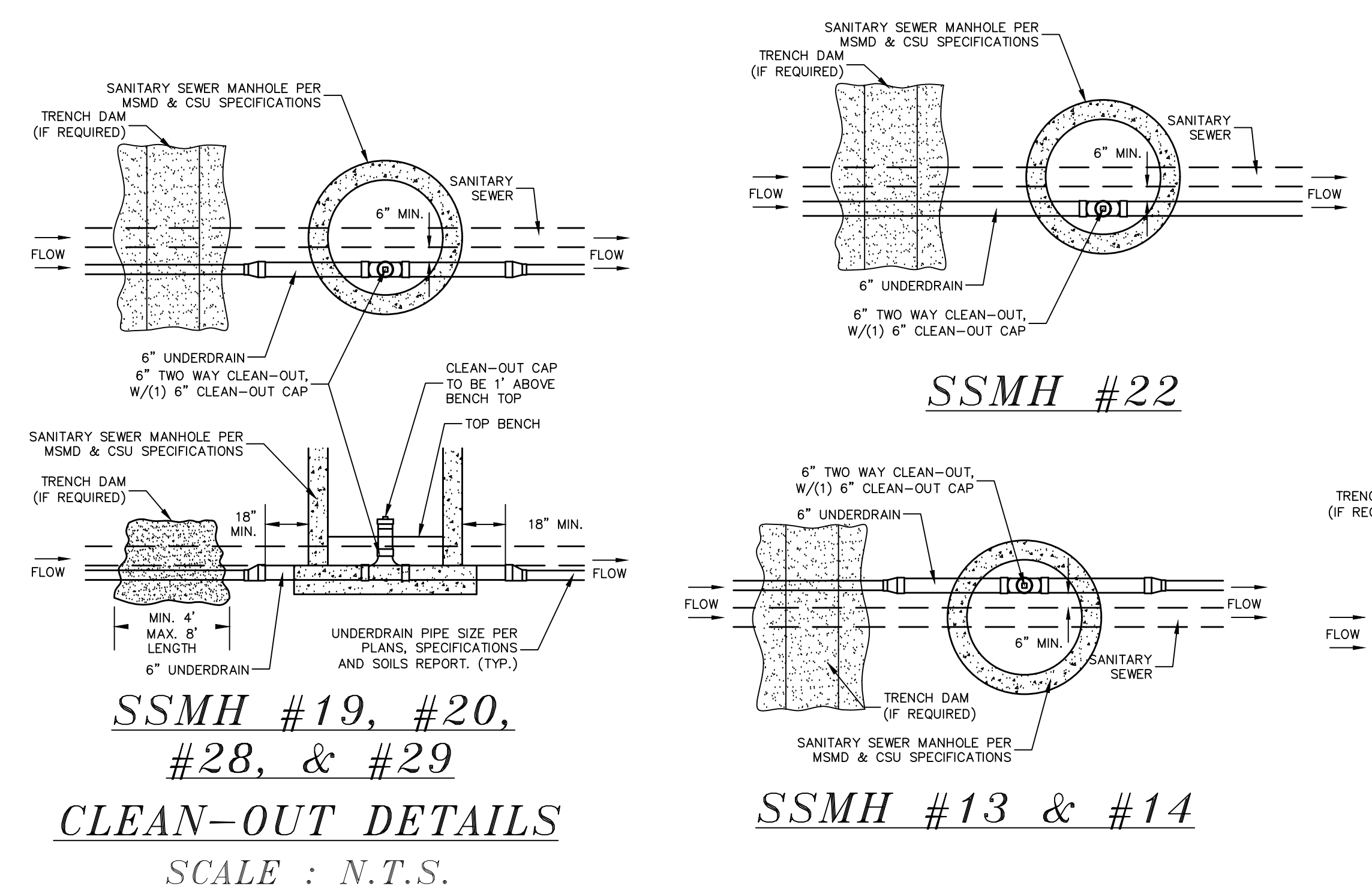
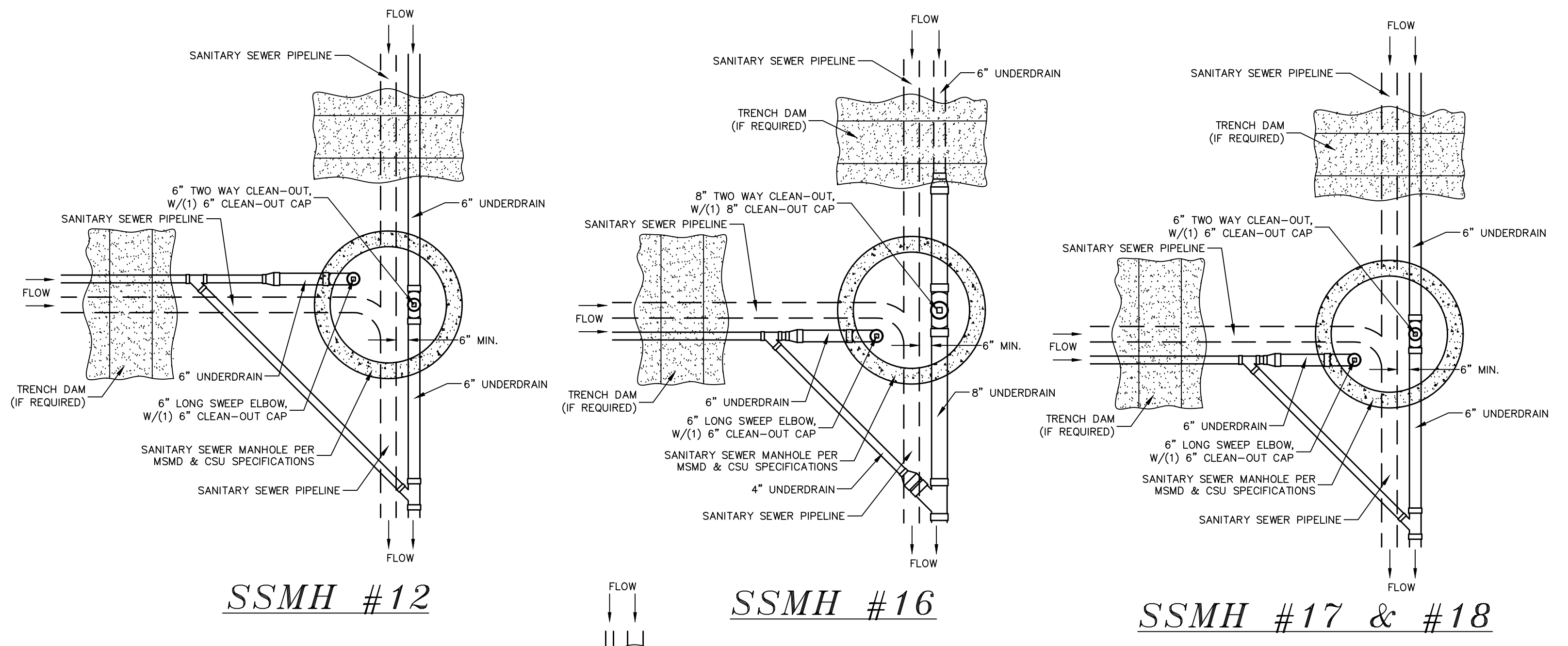
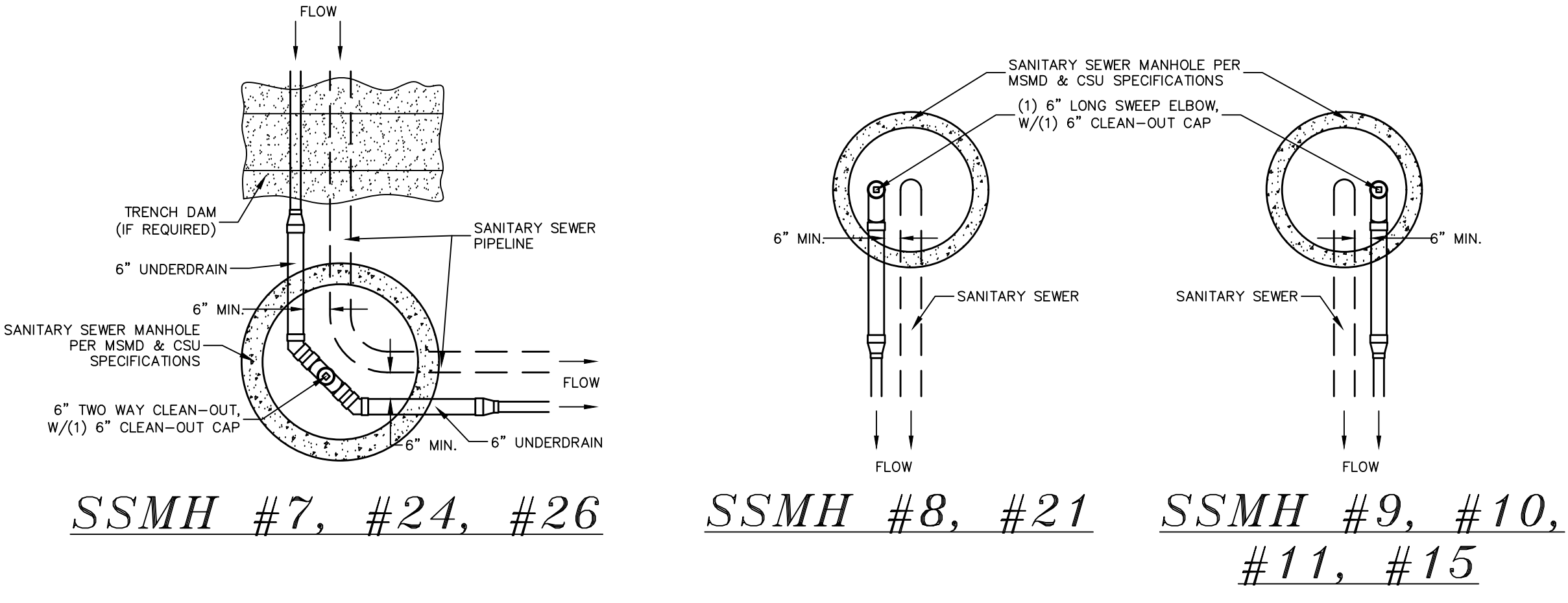
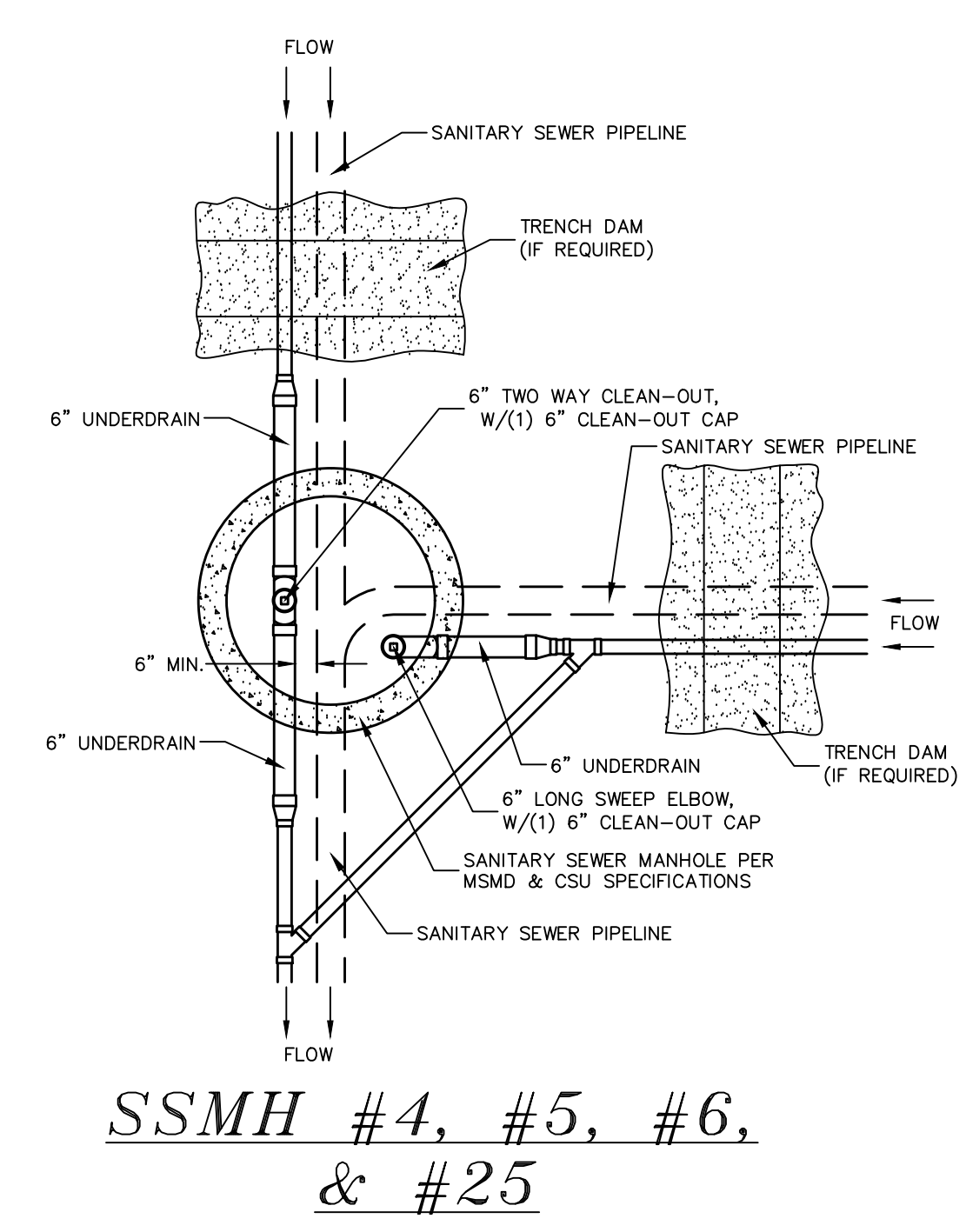
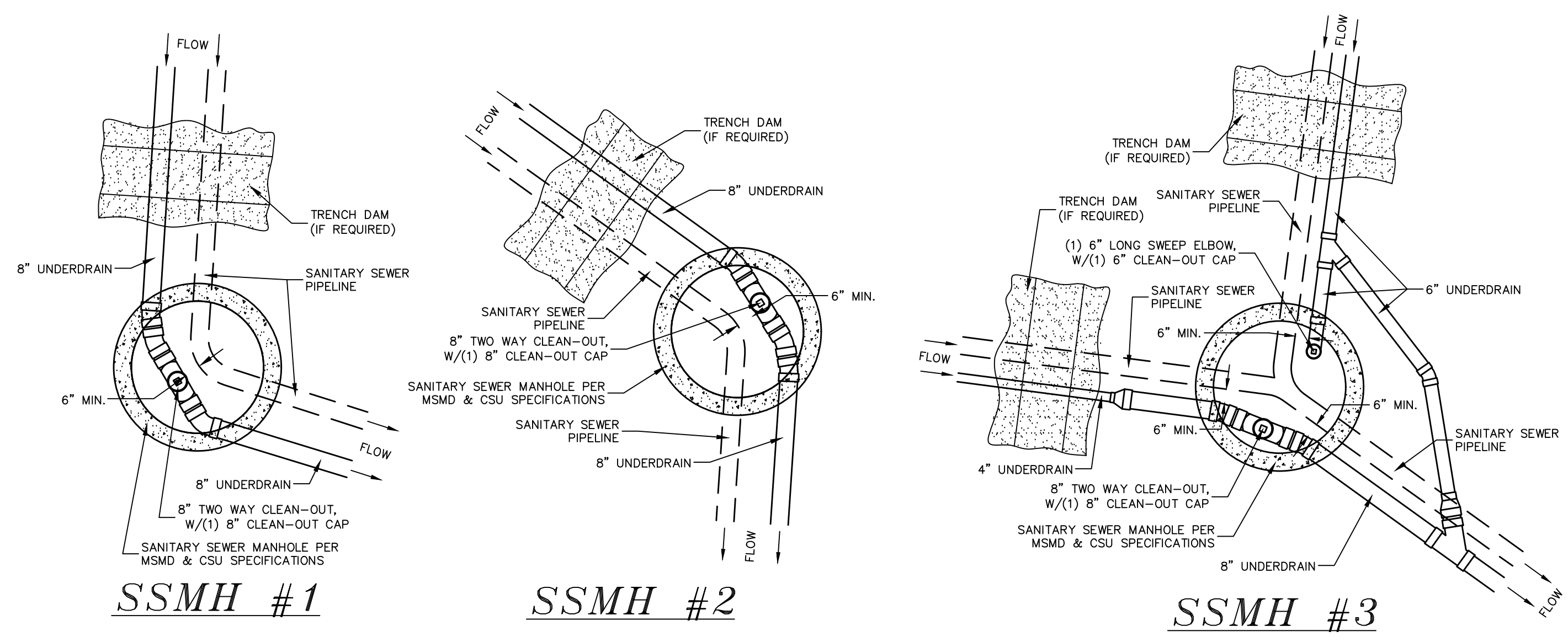
Unresolved. Please include a note for maintenance of the underdrain system. This is not EPC maintained



TWO WORKING DAYS BEFORE YOU DIG CALL 811

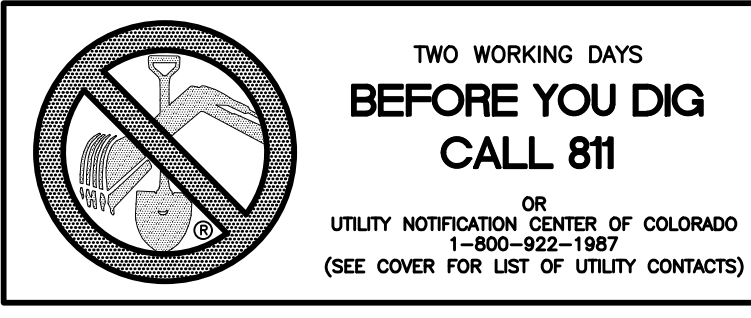
OR UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 (SEE COVER FOR LIST OF UTILITY CONTACTS)

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	
No.		Revisions		Date	Appr.
1	2	3	4		
Scale AS SHOWN		23 of 37		Date MAY 2024	
PCD PROJECT NO. SF2411					



- 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							
<b>MERIDIAN RANCH</b>							
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	MAY 2024
	24 of 37						

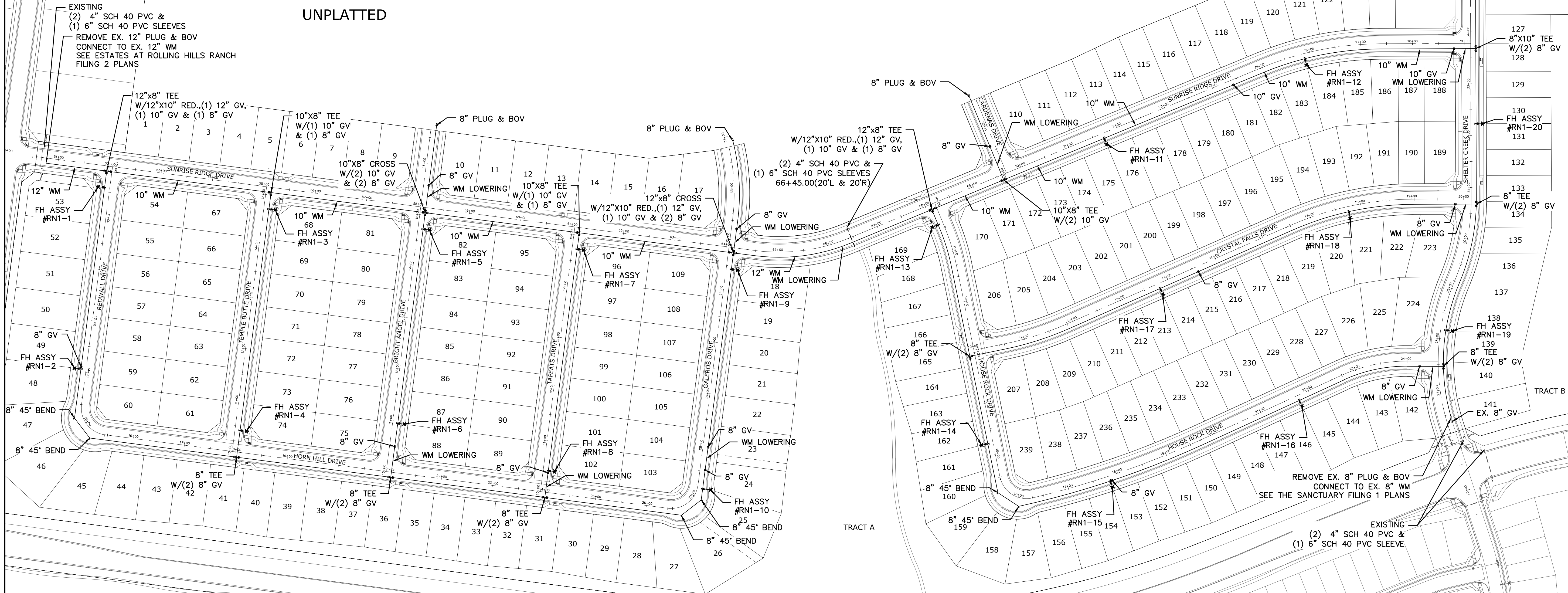




ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

FALCON REGIONAL PARK UNPLATTED BOUNDARY

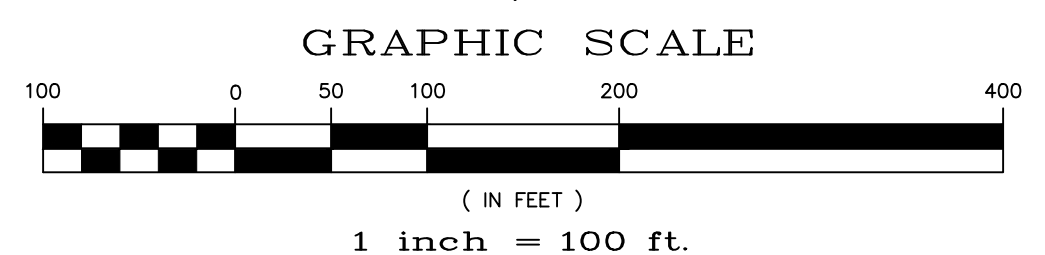
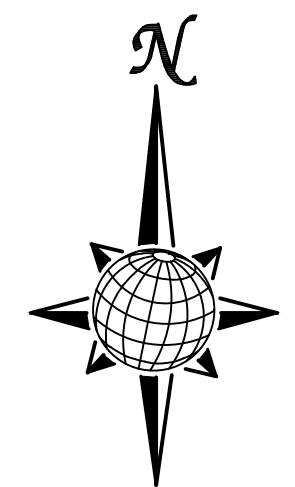


ROLLING HILLS RANCH FILING 3

ROLLING HILLS RANCH FILING 2

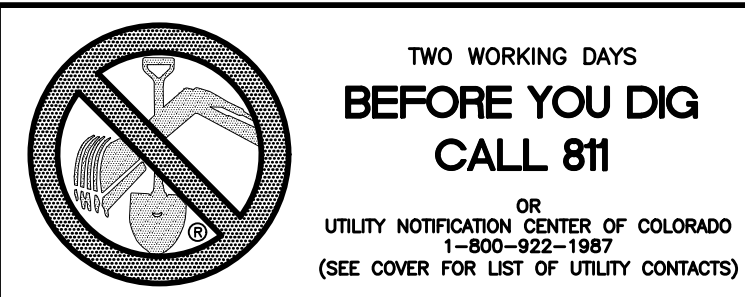
THE SANCTUARY FILING 1 AT MERIDIAN RANCH

RESIDENTIAL HOME  
4,800 SQ. FT. (MAX)  
VB CONSTRUCTION  
REQ'D FIRE FLOW: 1750 GPM  
HYDRANT SPACING: 500' (MAX)  
HOSE LAY DIST.: 250' (MAX)  
NON-SPRINKLER



NOTE:  
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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" WM UNLESS OTHERWISE LABELED.

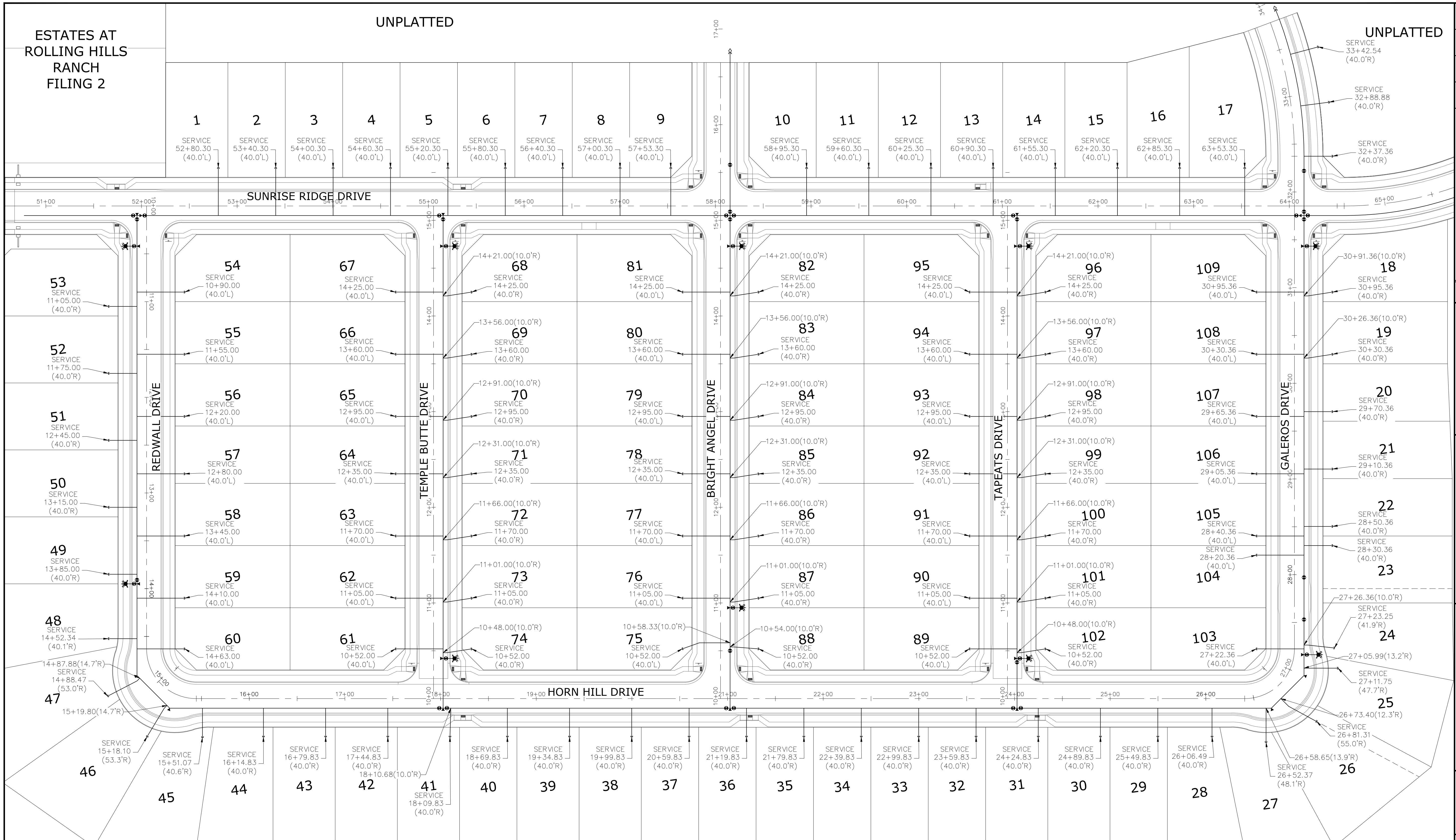


1	2	3	4	No.	Revisions	Date	Appr.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				MERIDIAN RANCH				OVERALL WATER
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS				Scale AS SHOWN				25 of 37
Drawn by LOG		Checked by TJK		Date MAY 2024				

ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

UNPLATTED



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

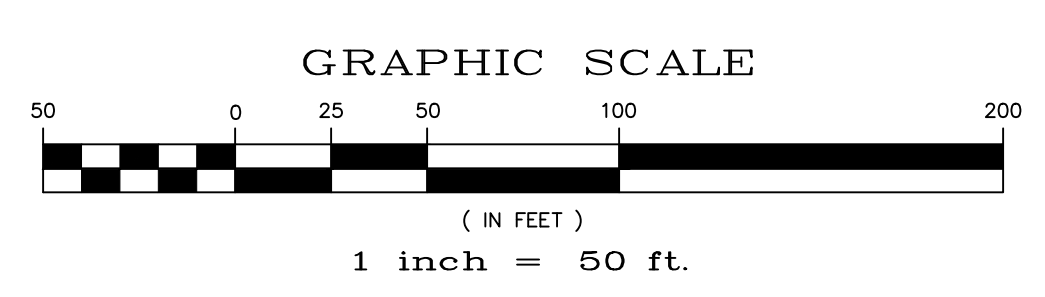
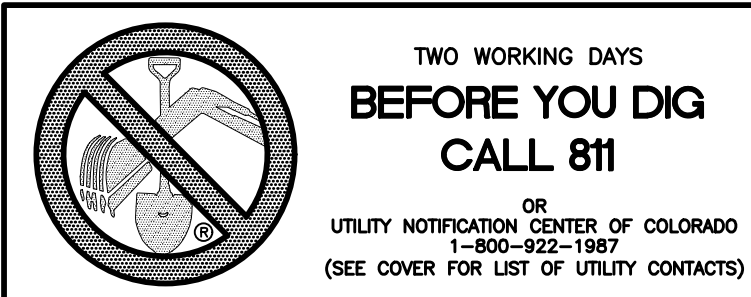
TECH CONTRACTORS  
11910 TOURMALINE DR. #130  
FALCON, CO 80831  
TELEPHONE: 719.495.7444



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

Drawn by	Log	Checked by	Date
AS SHOWN		TAK	MAY 2024

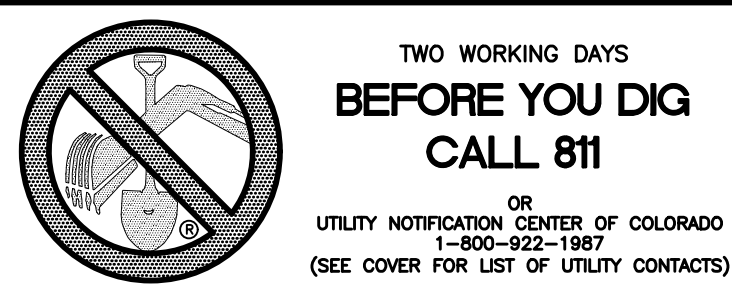
Scale  
26 of 37



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7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

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

RESIDENTIAL HOME
4,800 SQ. FT. (MAX)
VB CONSTRUCTION
REQ'D FIRE FLOW: 1750 GPM
HYDRANT SPACING: 500' (MAX)
HOSE LAY DIST.: 250' (MAX)
NON-SPRINKLER

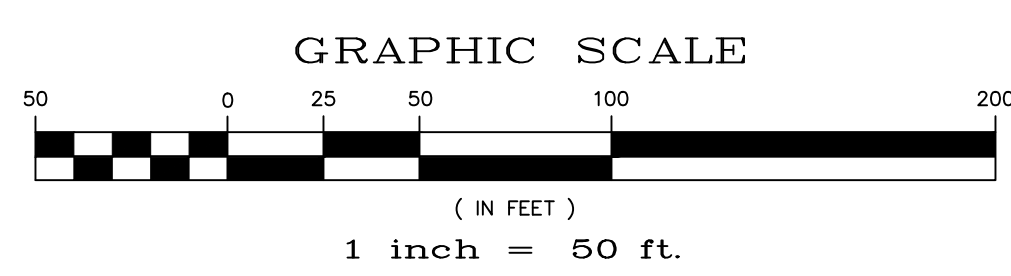
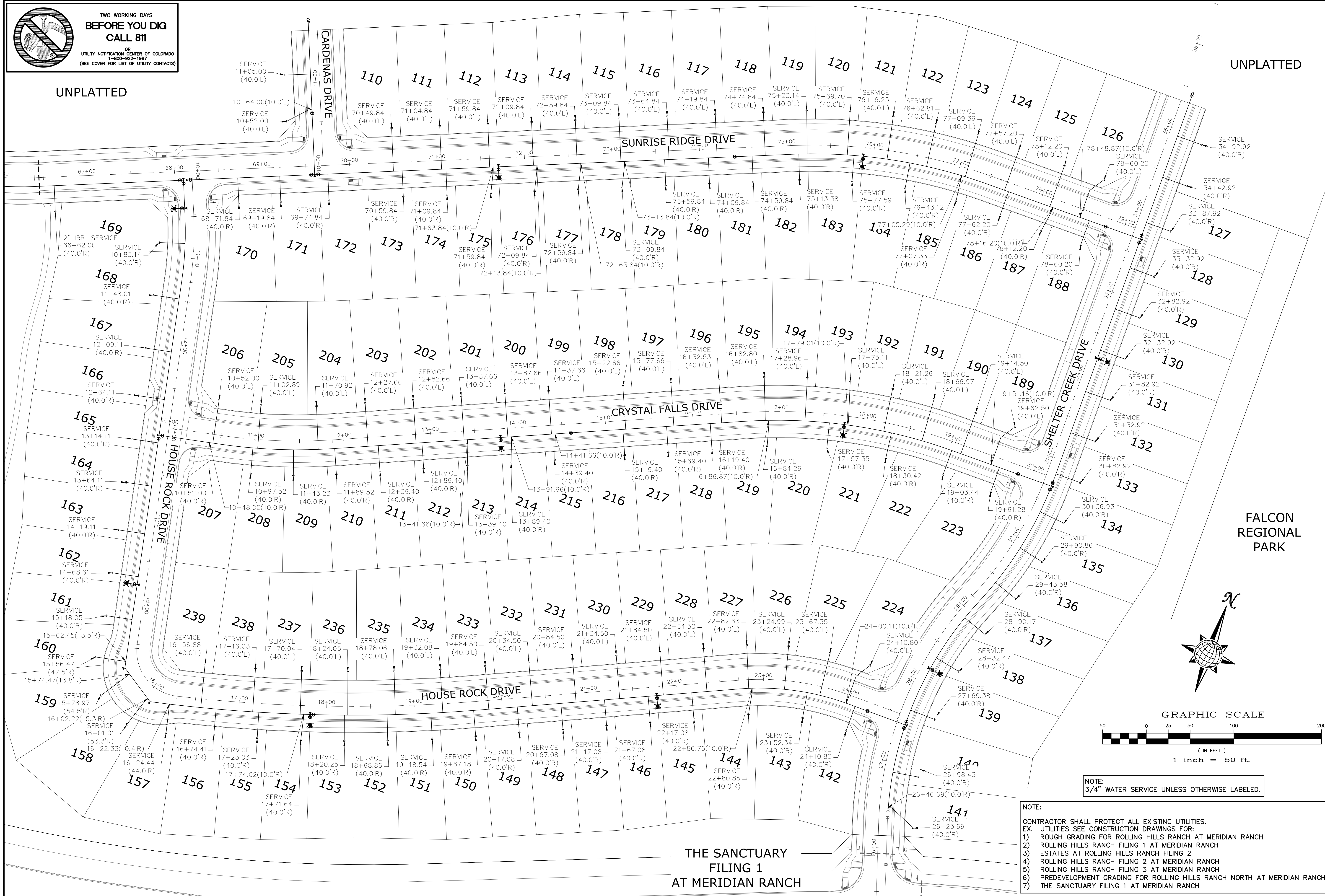


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1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

UNPLATTED

UNPLATTED



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

NOTE:  
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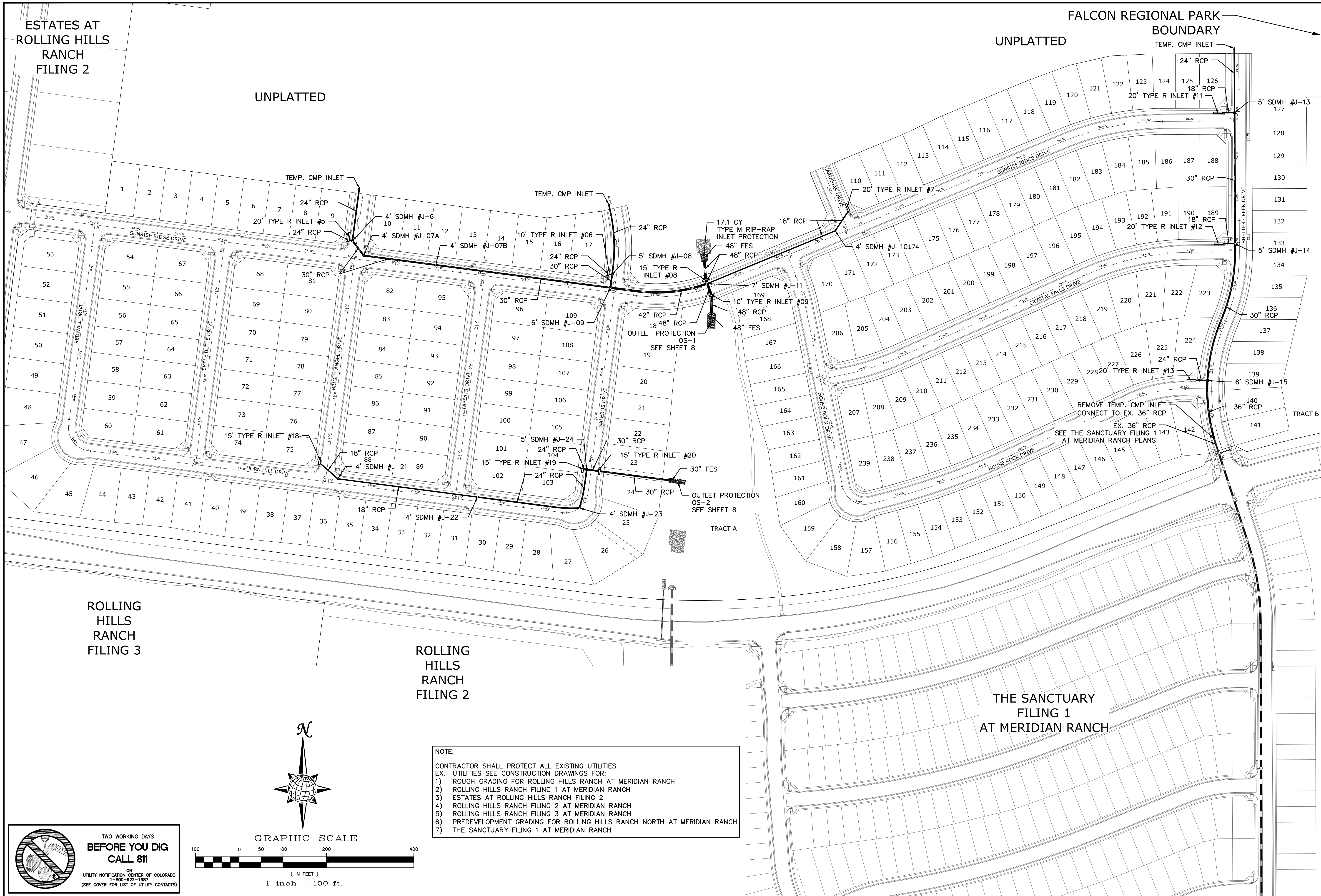
**THE SANCTUARY  
FILING 1  
AT MERIDIAN RANCH**

Scale	AS SHOWN	27 of 37
Drawn by	LOG	Checked by
		TAK
Date		MAY 2024
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL WATER SERVICES		
<p><b>MERIDIAN RANCH</b></p>		
<p>TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>		
No.	Revisions	Date
1		
2		
3		
4		
		Appr.
		Date

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

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

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

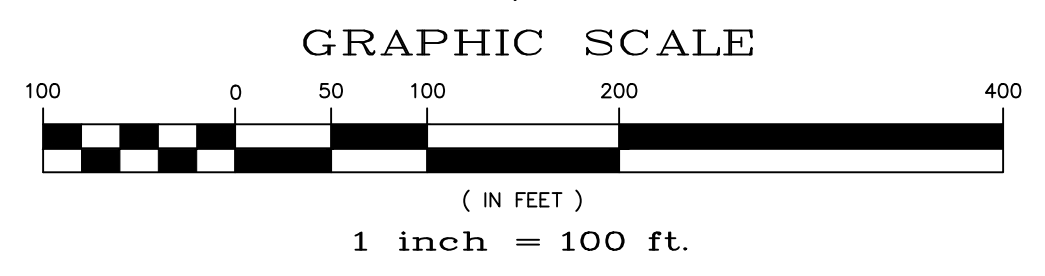
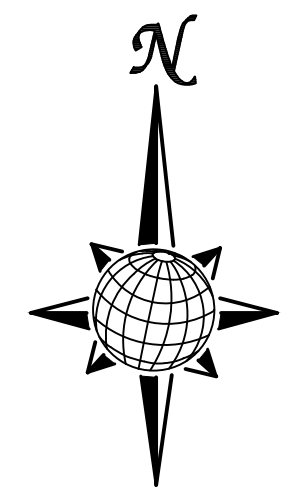


ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL STORM DRAIN

Drawn by	LOG
Checked by	TAK
Date	MAY 2024

Scale AS SHOWN 28 of 37

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

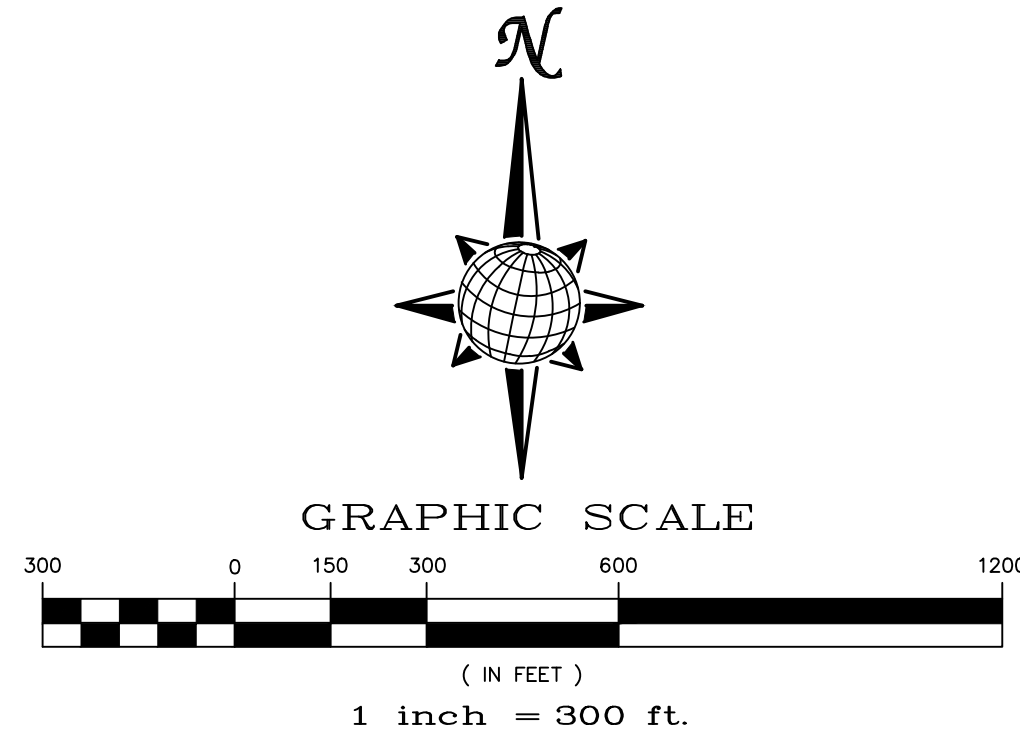


**TWO WORKING DAYS BEFORE YOU DIG CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-822-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

**EL PASO COUNTY STANDARD NOTES:**

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORTS FOR THIS SITE ARE ROLLING HILLS RANCH NORTH FILING 1 & 2 DATED APRIL 20, 2022 AND ROLLING HILLS RANCH DATED JULY 15, 2019 BOTH HAVE BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
 WATER QUALITY CONTROL DIVISION  
 WOOD - PERMITS  
 4300 CHERRY CREEK DRIVE SOUTH  
 DENVER, CO 80246-1530  
 ATTN: PERMITS UNIT

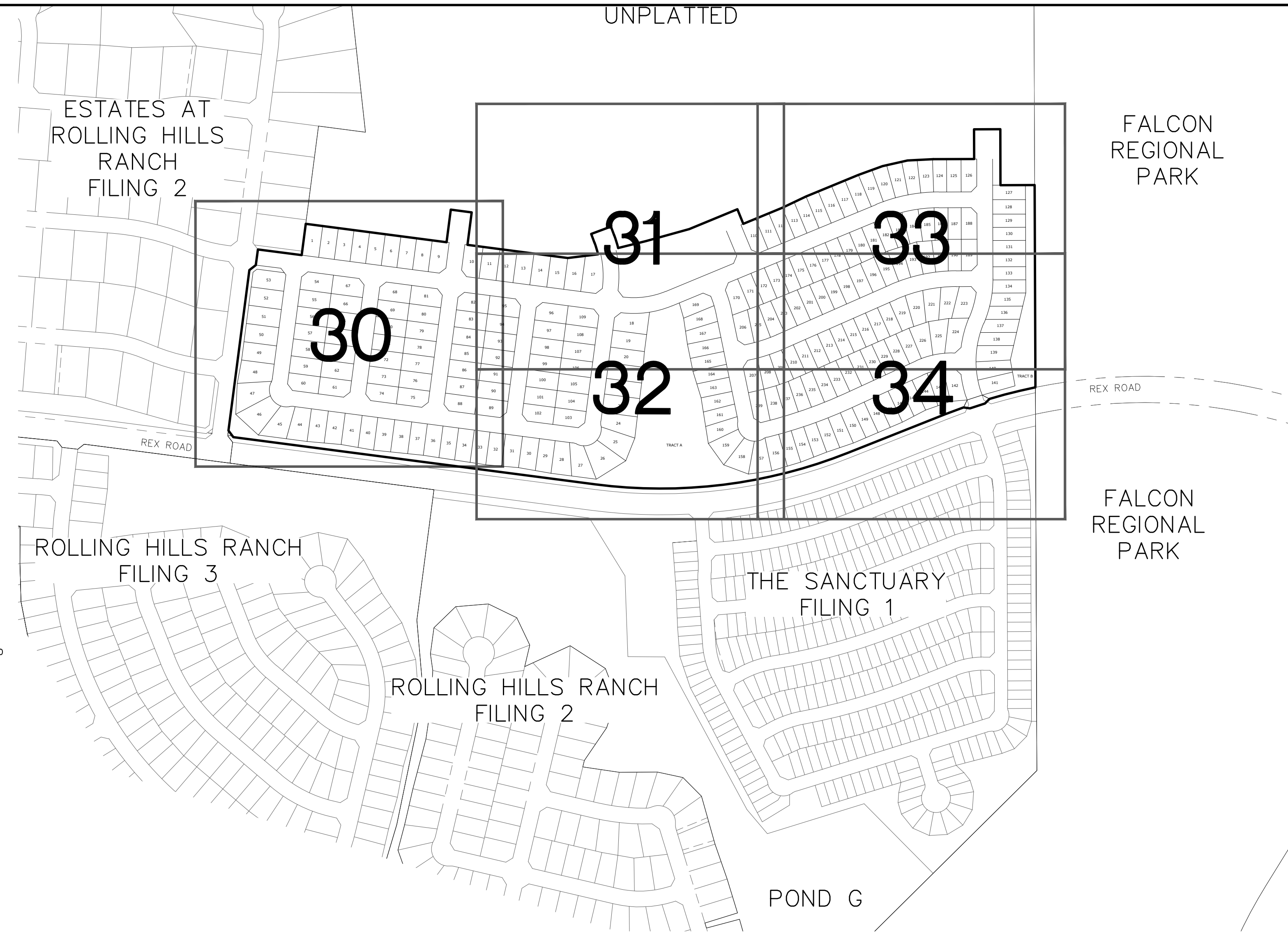


Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Silt fence & VTC Temporary Sed. Basins Swale Checks as needed Surface Roughening	June 2022	August 2022
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	June 2024	August 2025
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	August 2025	November 2026
Final Stabilization	Permit Close	Final Stabilization Permanent Seeding Permanent Measures	November 2026	

**EARTHWORK QUANTITIES**

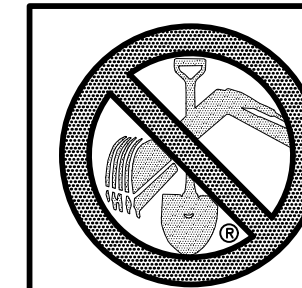
NET YARDS	BALANCE	
TOTAL STRIPPINGS	0.11 AC.	60 CY
NET YARDS	<b>CUT</b>	<b>FILL</b>
	2,590 CY	8,182 CY
20% COMPACTION FACTOR		

NOTE: FILL WILL BE GENERATED FROM UTILITY INSTALLATION.



**NOTE:**

- EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDING OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDING WITH THE APPROVED COUNTY SEED MIX.
- MATERIAL STORAGE, TOPSOIL STOCKPILES(EDFCD: MM-2), STAGING(UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.
- THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.
- NO SLOPES GREATER THAN 3:1 ARE EXPECTED ON THIS SITE. SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
- MIRIFI FABRIC TO BE PLACED BELOW ALL RIP-RAP.



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

No.	Revisions	Date	Appr.
1			
2			
3			
4			

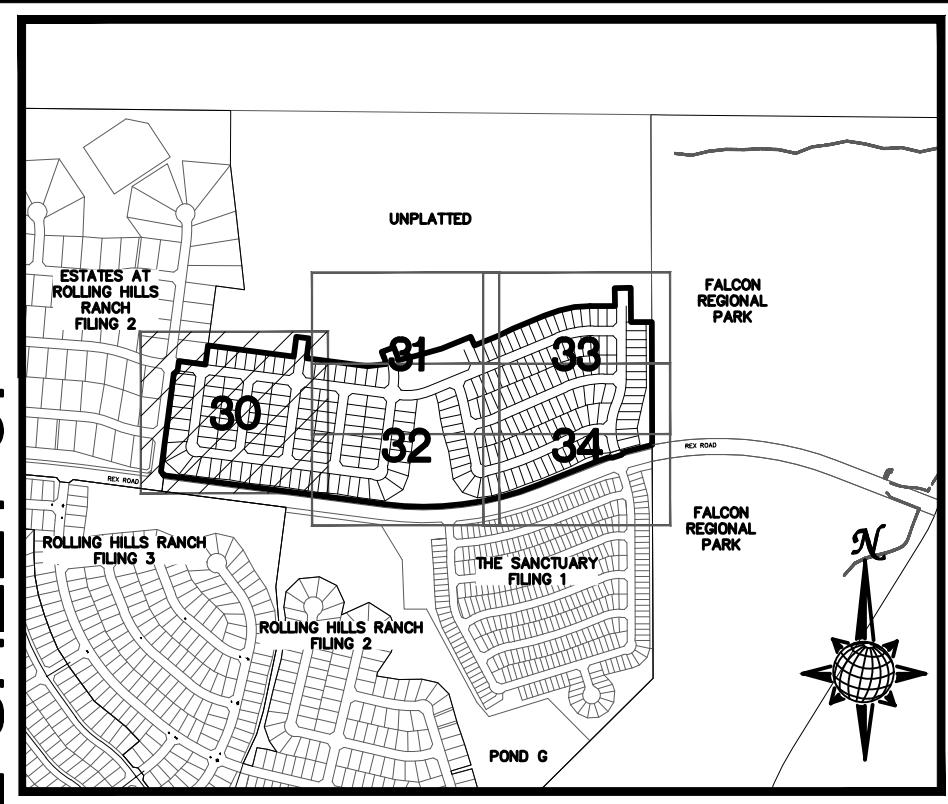
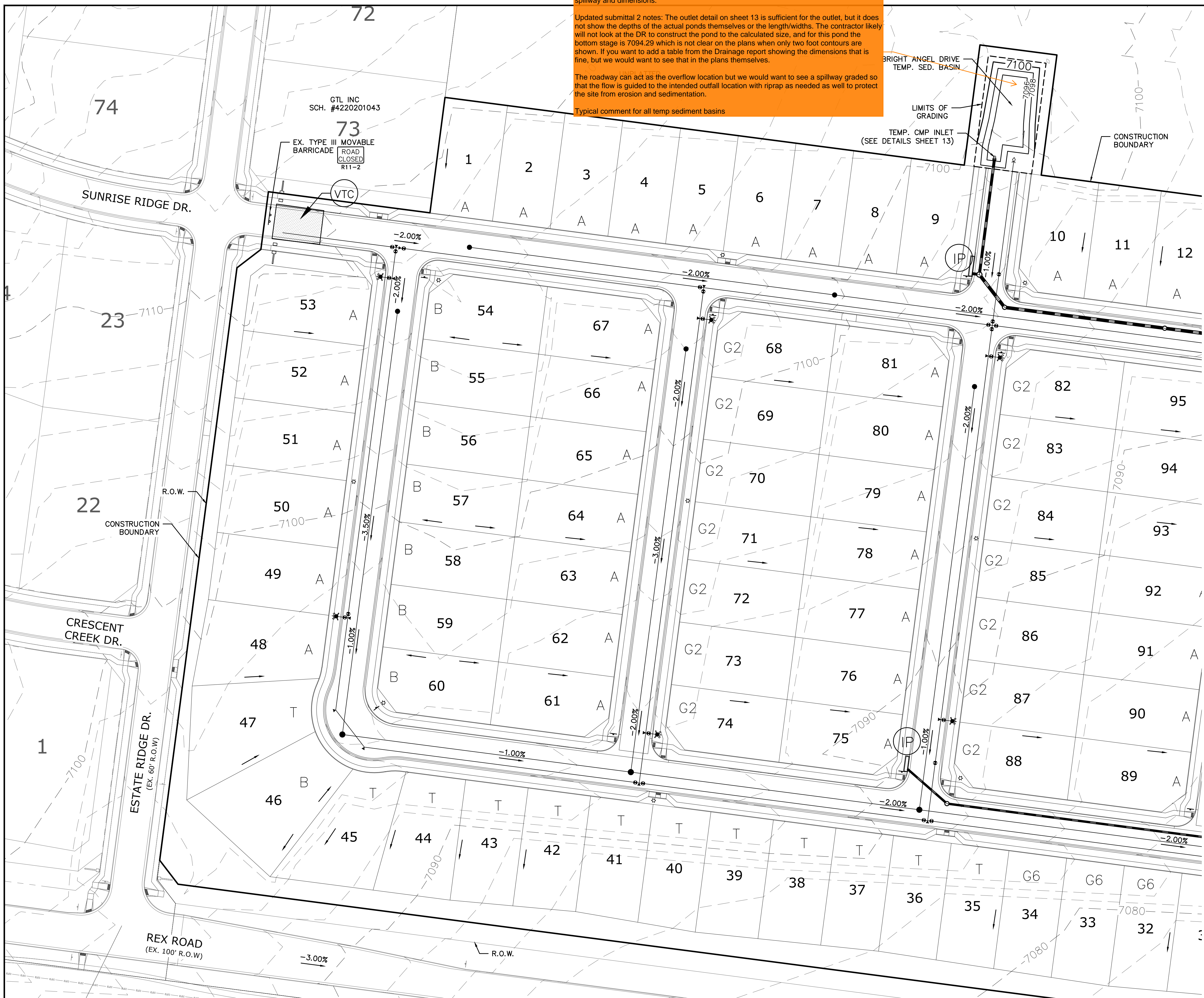
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	
<b>MERIDIAN RANCH</b>	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN	GRADING INDEX SHEET
Scale AS SHOWN	29 of 37
Drawn by LOG	Checked by TJK
Date MAY 2024	

Unresolved from Submittal 1: Please provide dimensions and minimum depth. Provide spillway and dimensions.

Updated submittal 2 notes: The outlet detail on sheet 13 is sufficient for the outlet, but it does not show the depths of the actual ponds themselves or the length/widths. The contractor likely will not look at the DR to construct the pond to the calculated size, and for this pond the bottom stage is 7094.29 which is not clear on the plans when only two foot contours are shown. If you want to add a table from the Drainage report showing the dimensions that is fine, but we would want to see that in the plans themselves.

The roadway can act as the overflow location but we would want to see a spillway graded so that the flow is guided to the intended outfall location with riprap as needed as well to protect the site from erosion and sedimentation.

Typical comment for all temp sediment basins



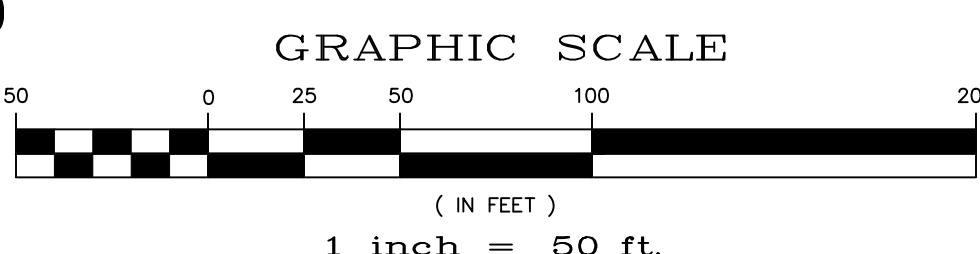
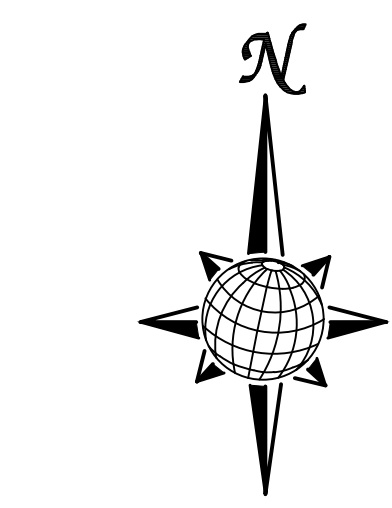
### INDEX MAP N.T.S.

#### 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
	VTC	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.

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  - PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
  - THE SANCTUARY FILING 1 AT MERIDIAN RANCH



SEE SHEET 31

SEE SHEET 32

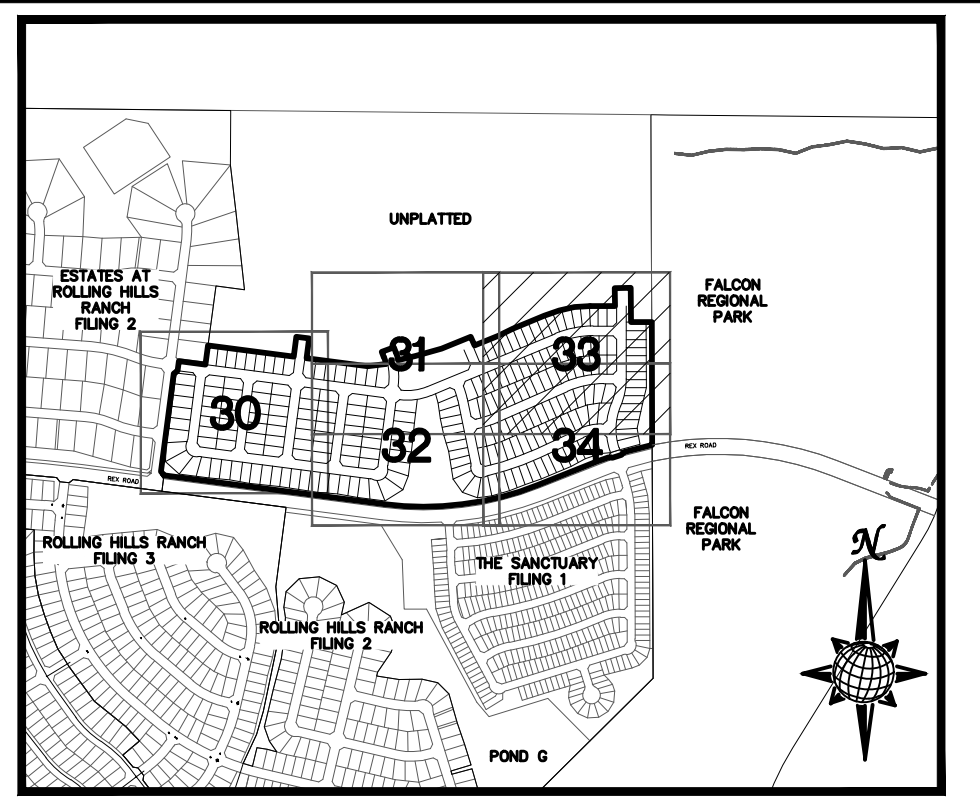
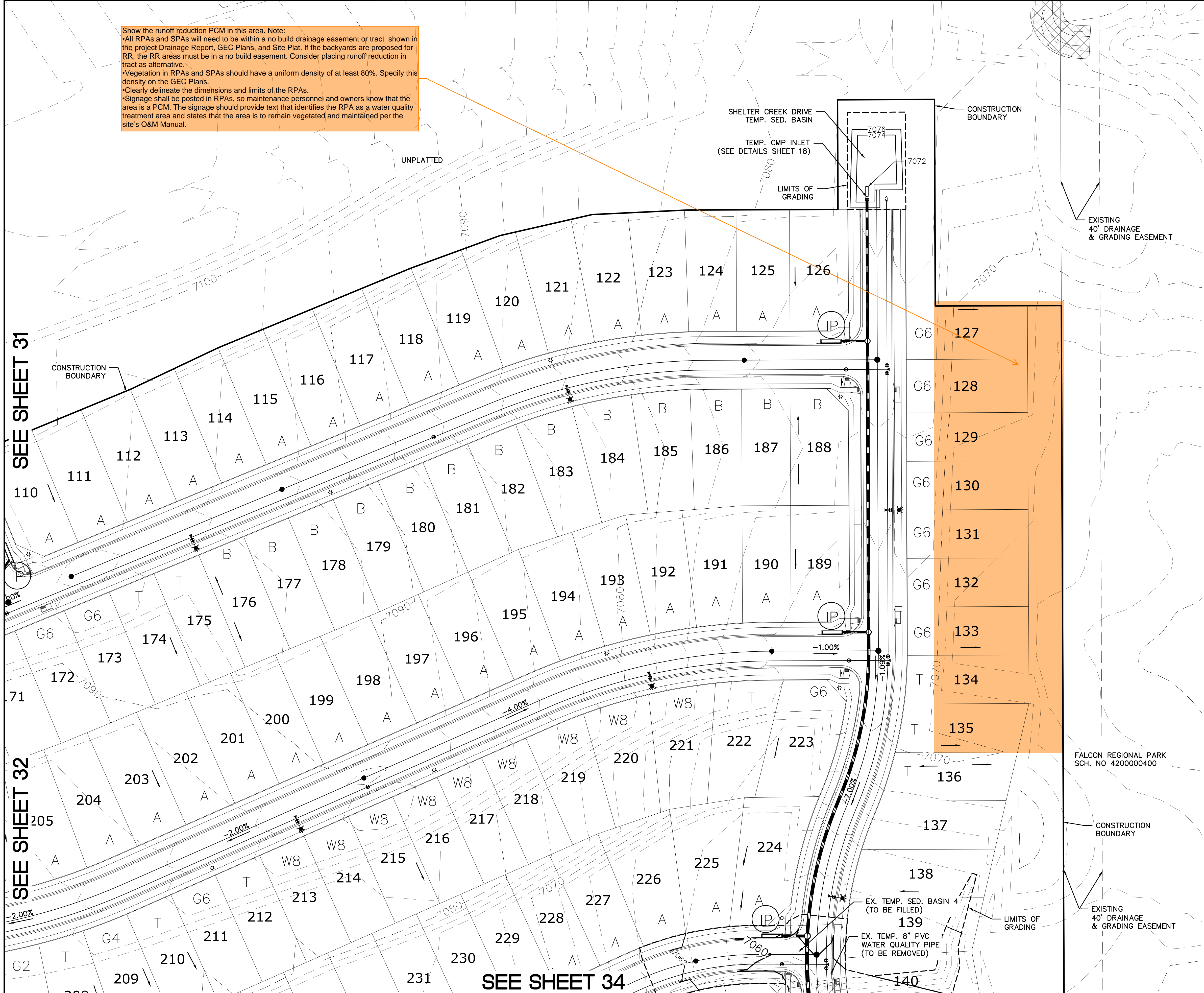
1	2	3	4	No.	Revisions	Date	Appr.
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN							
Scale	AS SHOWN	30	of	37			
Drawn by	LOG	Checked by	TAK	Date	MAY 2024		
TWO WORKING DAYS <b>BEFORE YOU DIG CALL 811</b> OR UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 (SEE COVER FOR LIST OF UTILITY CONTACTS)							
PCD PROJECT NO. SF2411							







Show the runoff reduction PCM in this area. Note:  
 \*All RPAs and SPAs will need to be within a no build drainage easement or tract shown in the project Drainage Report, GEC Plans, and Site Plat. If the backyards are proposed for RR, the RR areas must be in a no build easement. Consider placing runoff reduction in tract as alternative.  
 \*Vegetation in RPAs and SPAs should have a uniform density of at least 80%. Specify this density on the GEC Plans.  
 \*Clearly delineate the dimensions and limits of the RPAs.  
 \*Signage shall be posted in RPAs, so maintenance personnel and owners know that the area is a PCM. The signage should provide text that identifies the RPA as a water quality treatment area and states that the area is to remain vegetated and maintained per the site's O&M Manual.



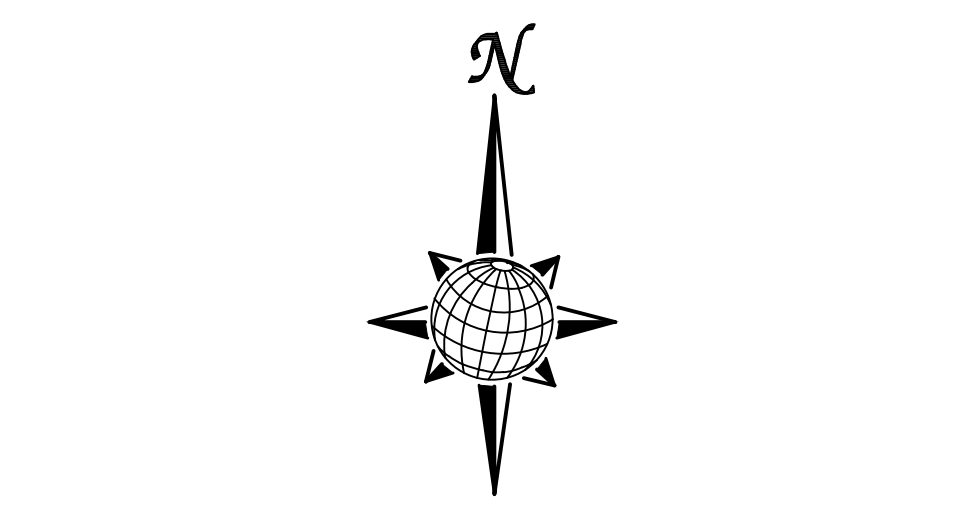
**INDEX MAP**  
N.T.S.

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**Scale AS SHOWN**  
33 of 37

**Drawn by** LOG  
**Checked by** TAK  
**Date** MAY 2024

**Graphic Scale**  
1 inch = 50 ft.

**NO DIGGING**  
TWO WORKING DAYS  
**BEFORE YOU DIG CALL 811**  
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

Revisions		Date	Appr.
No.	Description		
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 GRADING/EROSION CONTROL PLAN

**PLAN SHEET**





**LEGEND:**

AREAS OF CUT

AREAS OF FILL

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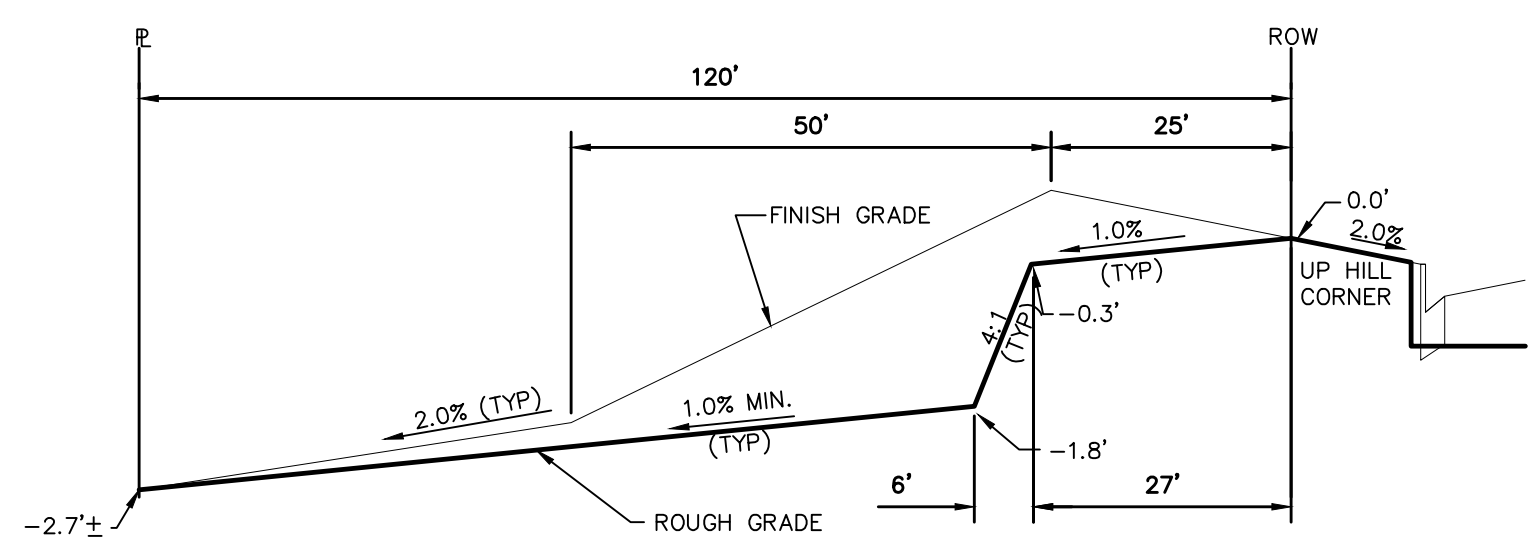
**GRAPHIC SCALE**  
 (IN FEET)  
 1 inch = 100 ft.

**Scale**  
 AS SHOWN  
 35 of 37

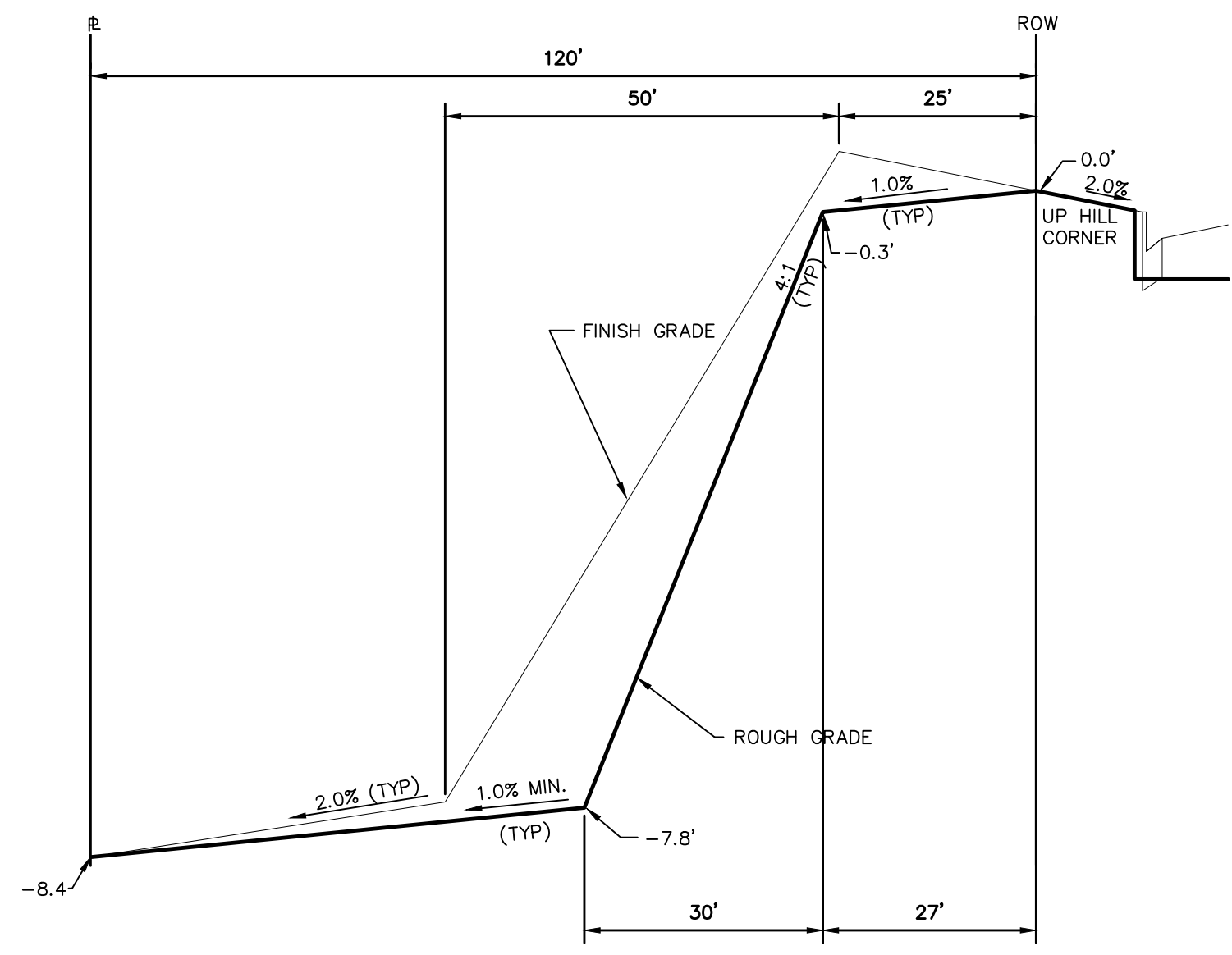
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 35 of 37

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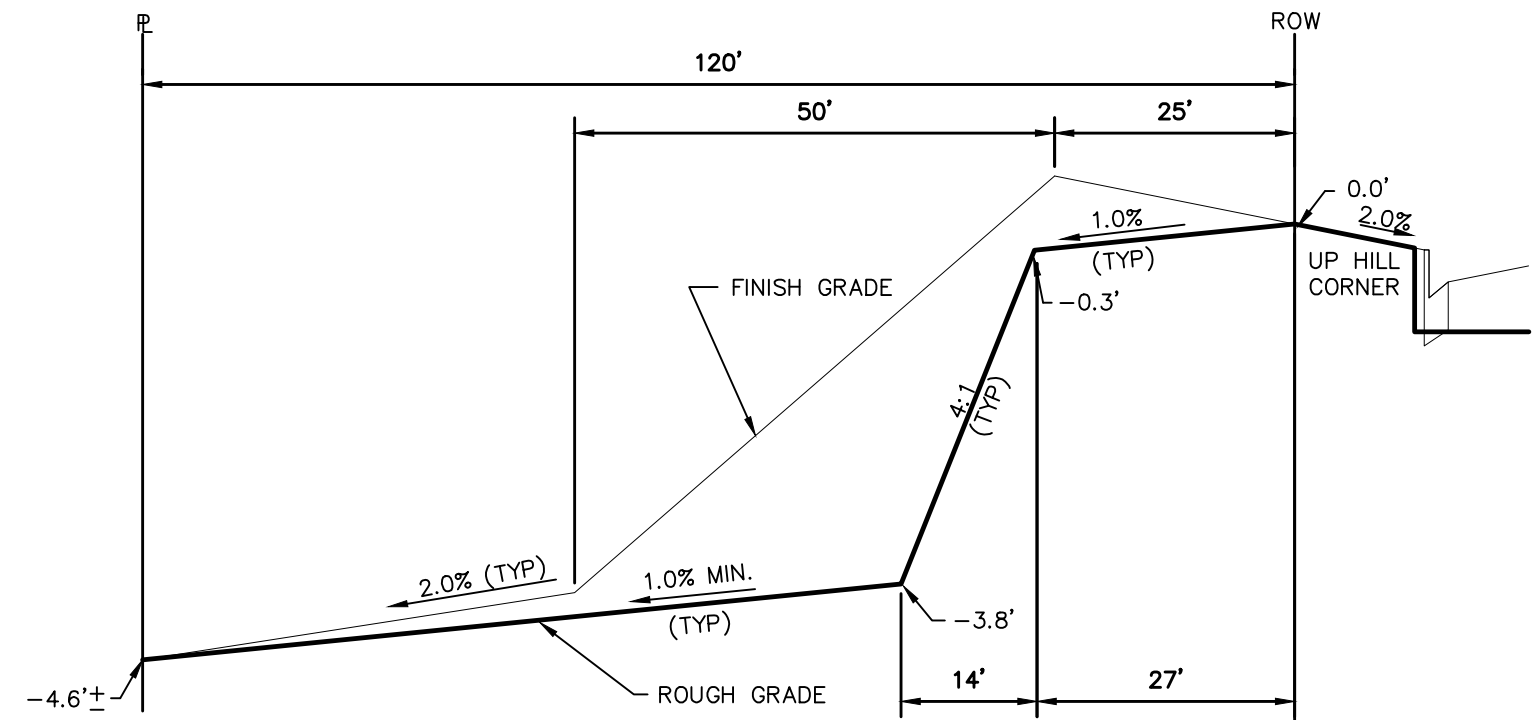
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TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444									
 <b>MERIDIAN RANCH</b>									
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING-EROSION CONTROL PLAN CUT-FILL SHEET									
Drawn by	LOG	Checked by	TAK	Date	MAY 2024				



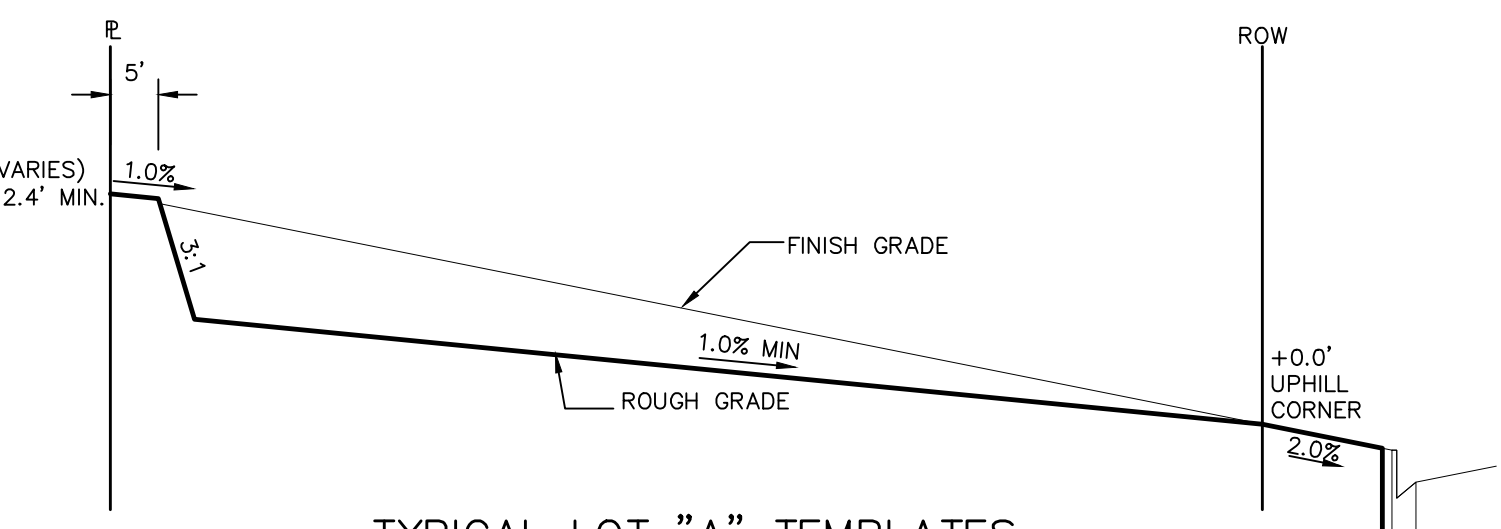
TYPICAL LOT "G2" TEMPLATES  
NTS



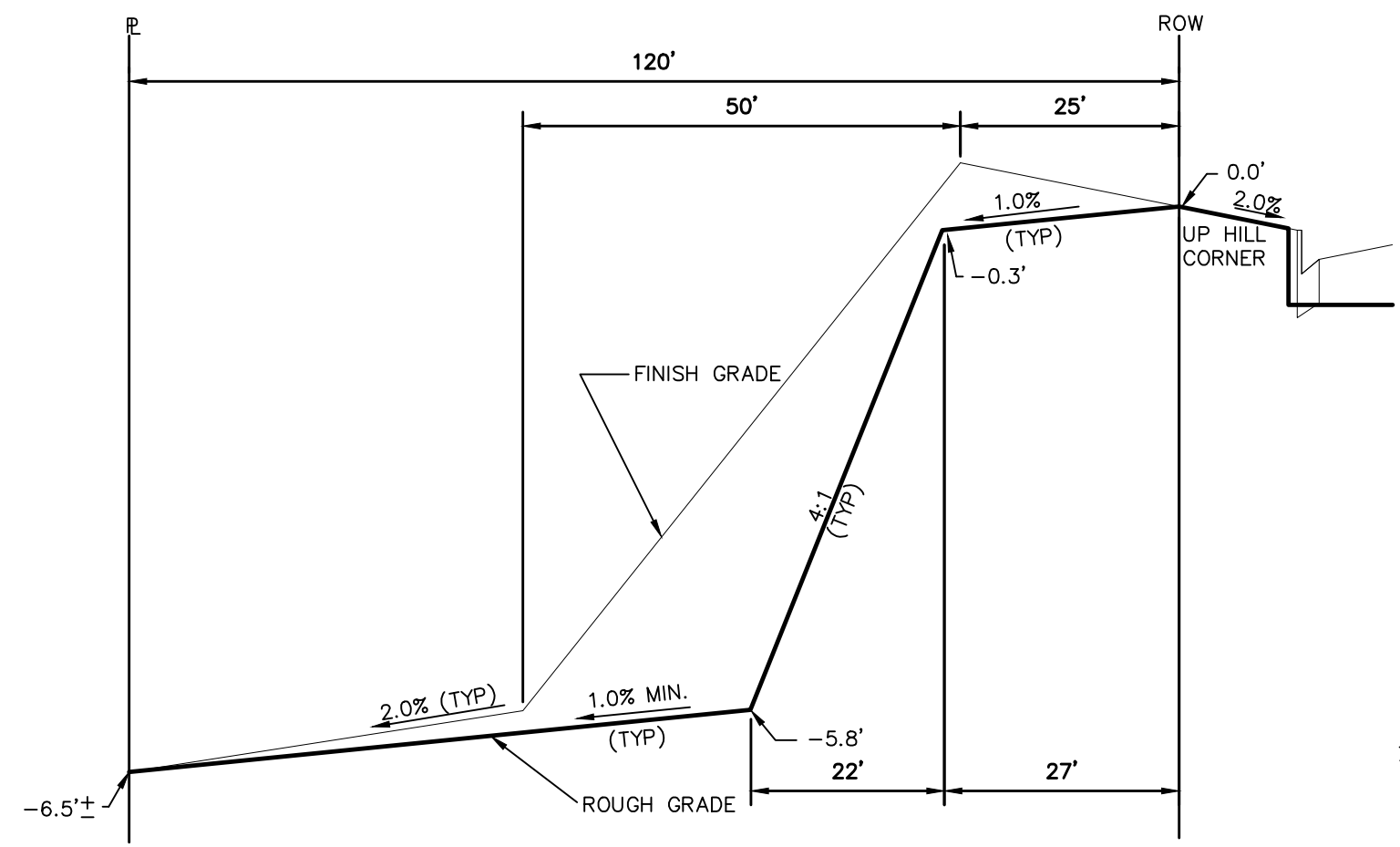
TYPICAL LOT "W8" TEMPLATES  
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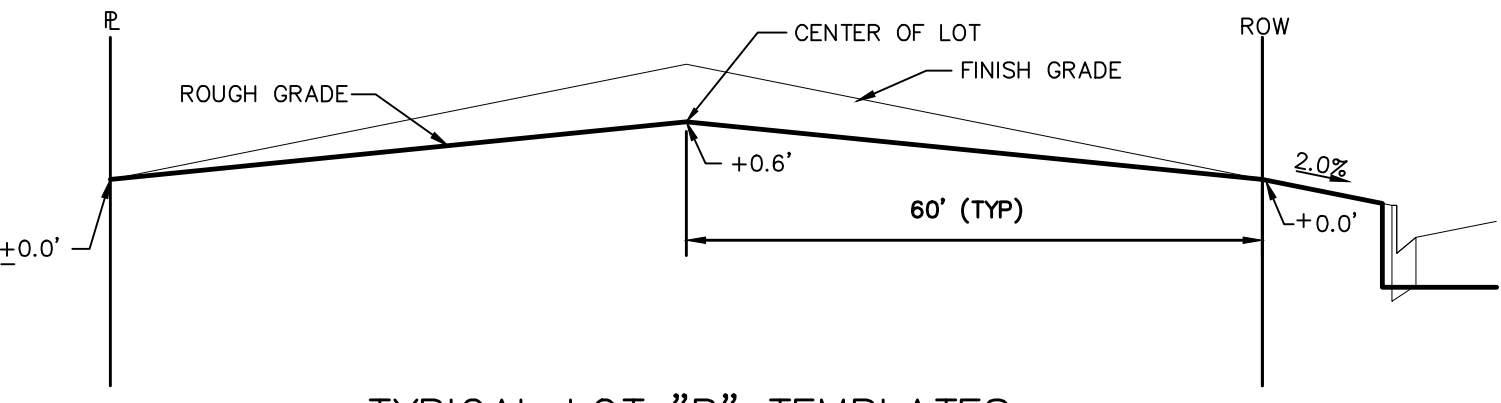
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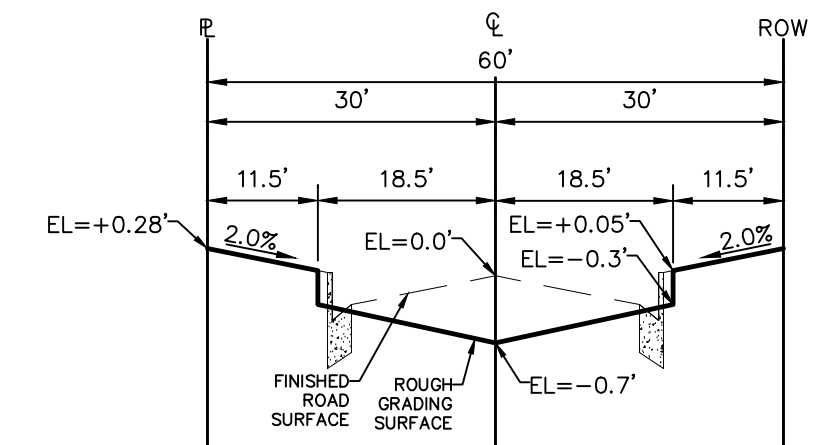
TYPICAL LOT "A" TEMPLATES  
NTS



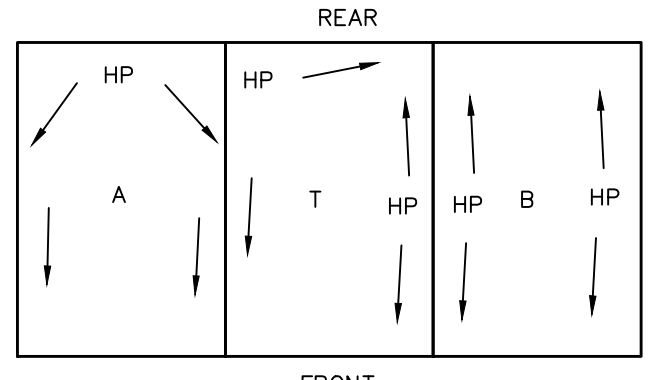
TYPICAL LOT "G6" TEMPLATES  
NTS



TYPICAL LOT "B" TEMPLATES  
NTS



TYPICAL RESIDENTIAL STREET SECTION  
60' ROW  
NTS



TYPICAL DRAINAGE PATTERN  
NTS

NOTE: "T" IS A TRANSITION BETWEEN LOT TEMPLATES

**STEPS FOR CONSTRUCTION**

THE ANTICIPATED START FOR THIS PROJECT IS OCTOBER 2024 WITH AN ANTICIPATED COMPLETION DATE OF AUGUST 2025. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

- \* INSTALL INITIAL BMP'S
- \* SANITARY SEWER
- \* WATER
- \* STORM SEWER AND CULVERTS
- \* ELECTRIC
- \* GAS
- \* PHONE & CABLE TV
- \* FINISHED ROAD GRADING AND PAVING

**EROSION AND SEDIMENT CONTROLS**

SILT FENCES AND STRAW BALE CHECK DAMS (OR APPROVED EQUAL) WILL BE INSTALLED PRIOR TO ANY EXCAVATION FOR THE MAJOR ROADS. STRAW BALE CHECK DAMS, FILTREX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTREX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERFLOW STRUCTURE. THE OUTLET STRUCTURE WILL ALSO BE PROTECTED WITH RIPRAP ON THE DOWNSTREAM SIDE.

NON-STRUCTURE PRACTICES TO CONTROL EROSION AND SEDIMENTATION WILL INCLUDE RESEEDING OF GROUND COVER IN DISTURBED AREAS ACCORDING TO THE EROSION CONTROL PLAN. TEMPORARY SEEDING OF THE DETENTION POND AND MULCHING ALONG STEEP EMBANKMENTS WILL BE PERFORMED AS REQUIRED.

SILT FENCE IS REQUIRED TO BE IN PLACE PRIOR TO ANY MOVEMENT OF DIRT.

**MATERIAL HANDLING AND SPILL PREVENTION**

THE MOST PROBABLE SOURCE OF NON-STORMWATER POLLUTION IS REFUELING AND DAILY MAINTENANCE OPERATIONS. IF MOBILE FUEL TRUCKS ARE USED TO SERVICE EQUIPMENT, ABSORBENT MATERIALS AND CONTAINERS FOR THE STORAGE OF USED ABSORBENT MATERIAL WILL BE CLOSE BY. IF A FUEL TANK IS LEFT ON SITE, BERMS WILL BE BUILT AROUND THE TANK TO CAPTURE ANY SPILLED FUEL. AGAIN, ABSORBENT MATERIALS AND THEIR CONTAINERS WILL BE ON HAND.

THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS PLANNED ON SITE.

**FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT**

ONCE THE MAJOR ROADS ARE PAVED AND THE SURROUNDING DISTURBED AREAS ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, THE CHECK DAMS AND THE SILT FENCES AROUND THE STREETS CAN BE REMOVED. AFTER COMPLETION OF THE STORM SEWER SYSTEM, THE STRAW BALES AND/OR FILTREX CAN BE REMOVED. AFTER ALL GROUND DISTURBING CONSTRUCTION HAS BEEN COMPLETED AND ALL SLOPES ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, REMAINING CHECK DAMS AND SILT FENCES CAN BE REMOVED. THE RIPRAP ON ANY OF THE OUTLETS WILL REMAIN AFTER CONSTRUCTION TO REDUCE EROSION OF THE CHANNELS. ALL PERMANENT SWALES WILL BE LINED WITH LANDSCAPING TO SLOW RUNOFF AND FILTER SEDIMENTS.

**OTHER CONTROLS**

- THERE ARE SEVERAL BEST MANAGEMENT PRACTICES THAT CAN BE EMPLOYED TO PREVENT OR MITIGATE THE SOURCE OF POLLUTANTS AND CONTAMINATION OF STORMWATER RUNOFF. SOME OF THESE ARE:
- \* ALL REFUSE DUMPSTERS AND RECEPTACLES SHALL BE EQUIPPED WITH FUNCTIONAL LIDS TO PREVENT RAIN AND SNOW FROM ENTERING.
- \* STORAGE CONTAINERS, DRUMS AND BAGS SHALL BE STORED AWAY FROM DIRECT TRAFFIC ROUTES TO PREVENT ACCIDENTAL SPILLS.
- \* EMPTY DRUMS SHALL BE COVERED TO PREVENT COLLECTION OF PRECIPITATION.
- \* CONTAINERS SHALL BE STORED ON PALLETS OR OTHER DUNNAGE TO PREVENT CORROSION OF CONTAINERS, WHICH CAN RESULT WHEN CONTAINERS COME IN CONTACT WITH MOISTURE ON THE GROUND.
- \* REGULARLY SCHEDULED REMOVAL OF CONSTRUCTION TRASH AND DEBRIS.
- THE CONTRACTOR IS CERTAINLY NOT LIMITED TO THESE GOOD HOUSEKEEPING MEASURES, AND MAY IMPLEMENT FURTHER CONTROLS AS PRUDENCE AND GOOD JUDGEMENT DEEM NECESSARY.

**INSPECTION AND MAINTENANCE**

- A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:
- \* EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
- \* WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEEDED IF NECESSARY. ANY CHECK DAMS THAT HAVE SHIFTED OR DECAYED SHALL BE REPAIRED OR REPLACED.
- \* SILT FENCES SHALL BE CLEANED WHENEVER SEDIMENT HAS REACHED A DEPTH OF 6" AT THE FENCE, AND BROKEN WOODEN PARTS OR TORN FABRIC SHALL BE REPAIRED OR REPLACED.
- \* ANY ACCUMULATED TRASH OR DEBRIS SHALL BE REMOVED FROM OUTLETS.
- \* IF THE DEPTH OF THE SILT IN THE TEMPORARY SEDIMENTATION TRAP EXCEEDS 1/2 OF THE ORIGINAL DEPTH, THE TRAP SHALL BE CLEANED OUT AND RESTORED TO ITS ORIGINAL DEPTH. THE OVERFLOW SPILLWAY SHALL BE CLEANED OR REPAIRED AS NECESSARY.
- AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

**REVEGETATION AND SEEDING**

ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. IF SEEDING BY THE BROADCAST METHOD IS SELECTED THE APPLICATION RATE SHOULD BE DOUBLED. IF HYDROMULCHING IS SELECTED TWO OPERATIONS SHOULD BE CONSIDERED, APPLYING THE SEED FIRST AND THE MULCH IN A SECOND OPERATION. UPON COMPLETION OF THE SEEDING OPERATION THE SITE SHOULD BE COVERED WITH WEED FREE MULCH AT A RATE OF 4,000 LBS. PER ACRE. MULCH SHALL BE INSTALLED PER DCM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOTS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

**NOTE:**

"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS. CONTOURS SHOWN ON THESE PLANS ARE ROUGH GRADES AND WILL CHANGE WITH EVERY HOME CONSTRUCTION. FIELD VERIFY ALL GRADES PRIOR DESIGN OF INDIVIDUAL HOME PLOT PLANS.

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 GRADING DETAIL SHEET
Drawn by	LOG	Checked by	TAK					
Scale	AS SHOWN		36 of 37					

