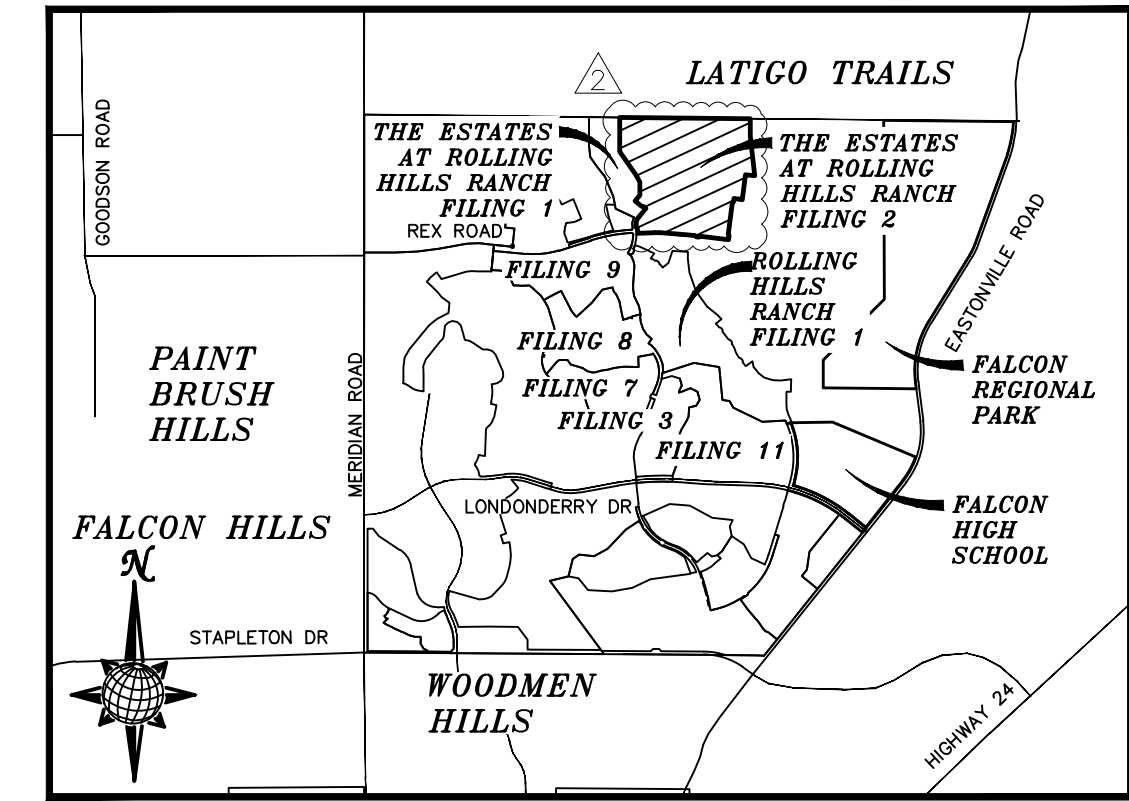


CONSTRUCTION DRAWINGS FOR THE ESTATES AT ROLLING HILLS RANCH FILING 2 IMPROVEMENT PLANS PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

A PARCEL OF LAND LOCATED IN A PORTION OF SECTION 20 AND 29
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,
EL PASO COUNTY, STATE OF COLORADO.



VICINITY MAP
N.T.S.

UTILITY CONTACTS:
 WATER - MERIDIAN SERVICE METROPOLITAN DISTRICT
 POC: KEVIN FACKERELL (719)-495-6567
 GAS - BLACK HILLS ENERGY (719)-393-6625
 SANITARY SEWER - MERIDIAN SERVICE METROPOLITAN DISTRICT
 POC: BRADEN McCORRY (719)-495-6567
 ELECTRIC - MOUNTAIN VIEW ELECTRIC ASSOC. (719)-495-2283
 DRAINAGE - EL PASO COUNTY PCD/INSPECTIONS (719)-520-6300
 GEOTECHNICAL ENGINEER - ENTECH ENGINEERING, INC. (719)-531-5599
 DRAINAGE - MERIDIAN SERVICE METROPOLITAN DISTRICT
 POC: TOM KERBY (719)-495-7444
 FALCON FIRE PROTECTION DISTRICT (719) 495-4050

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

LEGAL DESCRIPTION:

KNOW ALL MEN BY THESE PRESENTS: THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT AND MERIDIAN SERVICE METROPOLITAN DISTRICT BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACTS OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 19 AND 20, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEASTERN MOST CORNER OF TRACT B OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1, RECORDED WITH RECEPTION NO. 221714711 IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON THE NORTHEAST 1/4 OF SAID SECTION 19;

1. THENCE S89°18'07"E ALONG SAID SECTION 19 A DISTANCE OF 40.70 FEET TO THE NORTHWEST CORNER OF SAID SECTION 20;
2. THENCE S89°25'43"E, ALONG THE NORTHERN LINE OF SAID SECTION 20 A DISTANCE OF 2532.88 FEET;
3. THENCE S00°34'17"W A DISTANCE OF 340.00 FEET;
4. THENCE S06°47'53"E A DISTANCE OF 290.00 FEET;
5. THENCE S06°14'24"E A DISTANCE OF 495.03 FEET;
6. THENCE N82°33'58"W A DISTANCE OF 180.00 FEET;
7. THENCE S07°26'02"W A DISTANCE OF 495.00 FEET;
8. THENCE N82°33'58"W A DISTANCE OF 168.00 FEET;
9. THENCE S07°26'02"W A DISTANCE OF 60.00 FEET;
10. THENCE S52°26'02"W A DISTANCE OF 31.11 FEET;
11. THENCE S07°26'02"W A DISTANCE OF 636.00 FEET;
12. THENCE S37°33'58"E A DISTANCE OF 31.11 FEET;
13. THENCE S07°26'02"W A DISTANCE OF 80.00 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF ROLLING HILLS RANCH FILING NO. 3 AT MERIDIAN RANCH, RECORDED WITH RECEPTION NO. _____ IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING NINE (9) COURSES ARE ON SAID BOUNDARY LINE:

14. THENCE N82°33'58"W A DISTANCE OF 518.76 FEET TO A CURVE TO THE LEFT;
15. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 0°18'41", AN ARC LENGTH OF 40.44 FEET, WHOSE LONG CHORD BEARS N82°43'19"W A DISTANCE OF 40.44 FEET;
16. THENCE S51°52'47"W A DISTANCE OF 31.03 FEET;
17. THENCE N83°16'41"W A DISTANCE OF 60.00 FEET;
18. THENCE N38°26'09"W A DISTANCE OF 31.03 FEET TO A NON-TANGENT CURVE TO THE LEFT;
19. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 0°21'40", AN ARC LENGTH OF 290.08 FEET, WHOSE LONG CHORD BEARS N84°47'44"W A DISTANCE OF 290.06 FEET;
20. THENCE N85°54'45"W A DISTANCE OF 400.64 FEET TO A CURVE TO THE LEFT;
21. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 900.00 FEET, A DELTA ANGLE OF 06°09'39", AN ARC LENGTH OF 96.77 FEET, WHOSE LONG CHORD BEARS N88°59'34"W A DISTANCE OF 96.73 FEET;
22. THENCE S87°55'36"E A DISTANCE OF 348.00 FEET TO A POINT ON THE EASTERLY BOUNDARY OF SAID THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1;

THE FOLLOWING FOURTEEN (14) COURSES ARE ON SAID BOUNDARY LINE:

23. THENCE N02°04'24"W A DISTANCE OF 100.00 FEET;
24. THENCE N47°04'24"W A DISTANCE OF 31.11 FEET;
25. THENCE N02°04'24"W A DISTANCE OF 45.00 FEET TO A CURVE TO THE RIGHT;
26. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 220.00 FEET, A DELTA ANGLE OF 40°46'08", AN ARC LENGTH OF 156.54 FEET, WHOSE LONG CHORD BEARS N18°18'40"E A DISTANCE OF 153.26 FEET;
27. THENCE N38°41'44"E A DISTANCE OF 231.44 FEET;
28. THENCE N51°18'16"W A DISTANCE OF 60.00 FEET;
29. THENCE S83°41'44"W A DISTANCE OF 31.11 FEET;
30. THENCE N51°18'16"W A DISTANCE OF 170.23 FEET;
31. THENCE N38°41'44"E A DISTANCE OF 150.00 FEET;
32. THENCE N00°00'00"E A DISTANCE OF 254.85 FEET;
33. THENCE N30°02'34"W A DISTANCE OF 180.68 FEET;
34. THENCE N35°00'00"W A DISTANCE OF 540.00 FEET;
35. THENCE N00°00'00"E A DISTANCE OF 232.89 FEET;
36. THENCE N00°00'00"E A DISTANCE OF 108.00 FEET;
37. THENCE N00°00'00"E A DISTANCE OF 332.03 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 116.815 ACRES, MORE OR LESS.

SHEET NO	SHEET INDEX	SHEET NO	SHEET INDEX
△ 1	COVER SHEET	18	SS #1 & FUT. MORNING HILLS DR.
△ 2	INDEX SHEET	19	FUT. MORNING HILLS DR. & FUT. FOGGY MEADOWS DR.
3	NOTES SHEET	20	FUT. OVERLOOK BLUFF DR. & FUT. ROLLING RANCH DR.
4-5	DETAIL SHEET	21	FUT. CROOKED HILL DR. & FUT. CROOKED BLUFF DR.
△ 6	REX ROAD	22	FUT. CROOKED BLUFF DR. & SS #2
△ 7	REX ROAD & STORM #1	△ 23	SIGNAGE AND STRIPING
△ 8	ESTATE RIDGE DR.	△ 24-25	SIDEWALK PLAN
9	ESTATE RIDGE DR. & STORM #5	△ 26	OVERALL SANITARY SEWER
△ 10	CRESCENT CREEK DR. & WM #3	△ 27	OVERALL SS SERVICES
△ 11	CRESCENT CREEK DR. & SUNRISE RIDGE DR.	△ 28	OVERALL UNDERDRAIN
△ 12	SUNRISE RIDGE DR.	△ 29	UNDERDRAIN DETAILS
△ 13	CYPRESS MEADOW DR.	△ 30	OVERALL WATER
△ 14	HIGHLAND CREST DR.	△ 31	OVERALL WATER SERVICES
△ 15	HIGHLAND CREST DR. & SAGE MESA WAY	△ 32	OVERALL STORM DRAIN
△ 16	STORM #2 & STORM #3 & STORM #4	33	GRADING INDEX SHEET
△ 17	WM #1 & WM #2	△ 34-41	GRADING LAYOUT
		43-44	GRADING DETAIL SHEET

AS-BUILT
06/11/2024

DISTRICT ENGINEER:

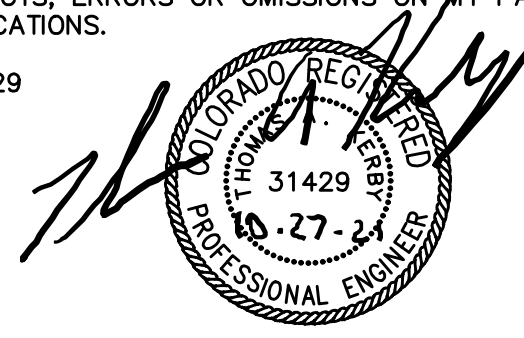
Thomas A. Kerby
 THOMAS A. KERBY, PE CO 31429
 MERIDIAN SERVICE METROPOLITAN DISTRICT
 DATE 10-27-21

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:
 I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.
Raul Guzman
 RAUL GUZMAN, VICE PRESIDENT
 GTL DEVELOPMENT, INC.
 DATE 12/1/2021

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.
 THOMAS A. KERBY, P.E. #31429



BASIS OF BEARING

BASIS OF BEARINGS FOR THIS DESCRIPTION IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 29, T12S, R64W OF THE 6TH P.M., WHICH IS ASSUMED TO BEAR S89°25'42"E FROM THE SOUTHWEST CORNER OF SECTION 29 (A STONE W/SCRIBED "X") TO THE SOUTH QUARTER CORNER OF SECTION 29 (3.25" ALUM. CAP LS 30087).

WATER AND SANITARY SEWER APPROVALS:

J. Nikkel
 JIM NIKKEL, GENERAL MANAGER
 MERIDIAN SERVICE METROPOLITAN DISTRICT
 DATE 12/1/21

BENCH MARK

- 1) MRRC1 - 3 1/4" ALUMINUM CAP ON NO.8 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGELES ROAD. LOCATED AT THE SE CORNER OF THE MERIDIAN RANCH RECREATIONAL CENTER SIGN. ELEVATION - 7098.40'
- 2) MRMS1 - 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED ON THE WEST SIDE OF RAINBOW BRIDGE DRIVE 1,150 FEET NORTH OF LONDONDERRY DRIVE. LOCATED NEAR THE BACK OF SIDE WALK AT THE NW CORNER OF RAINBOW BRIDGE DRIVE AND THE NORTHERLY ENTRANCE TO MERIDIAN RANCH ELEMENTARY SCHOOL (10480 RAINBOW BRIDGE DRIVE). ELEVATION - 7099.73'

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

OWNERS STATEMENT:

OWNERS STATEMENT:
 I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.
 RAUL GUZMAN, VICE PRESIDENT
 MERIDIAN RANCH INVESTMENTS, INC.
 DATE

EL PASO COUNTY:

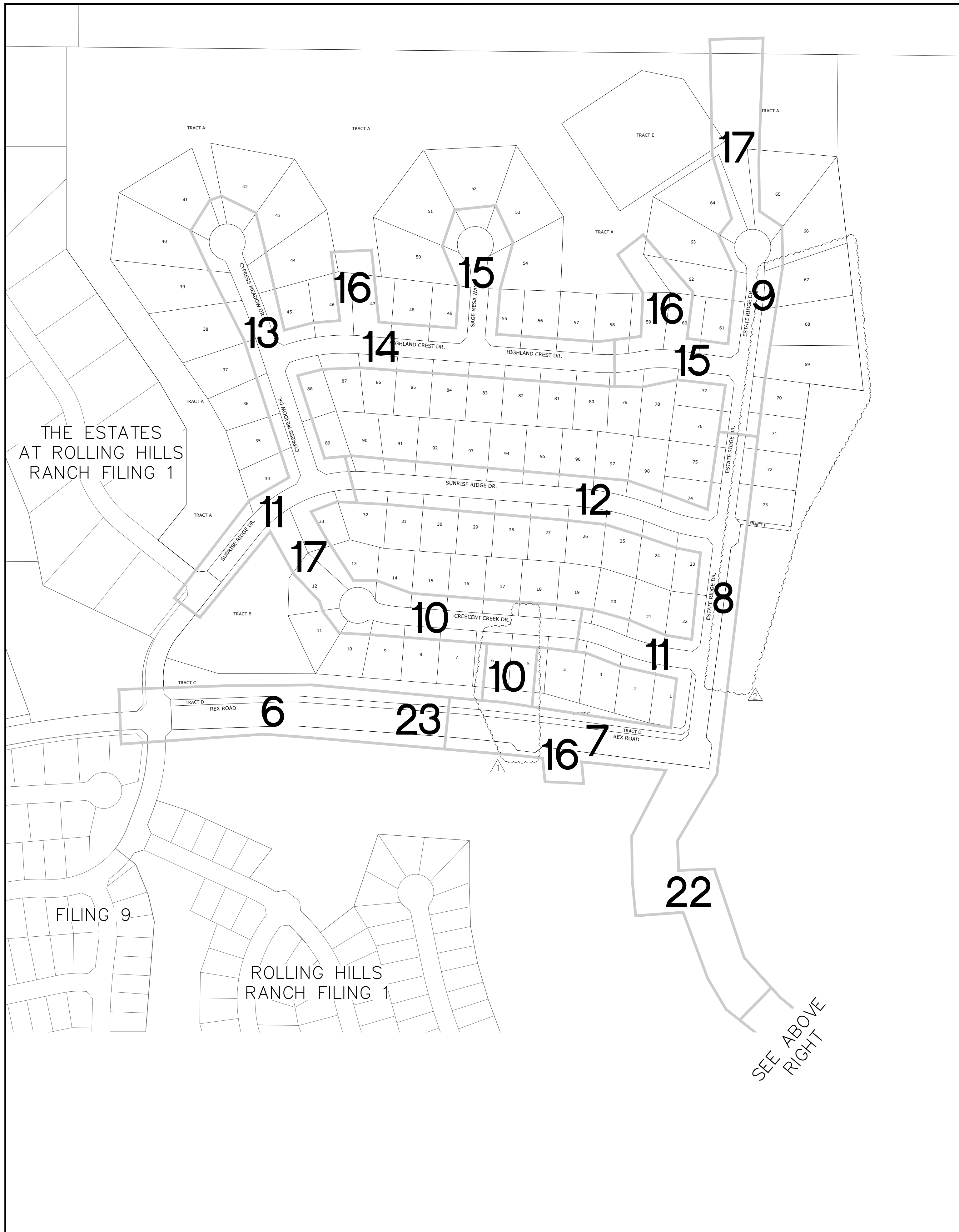
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

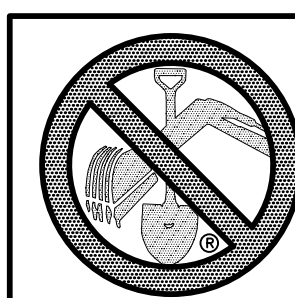
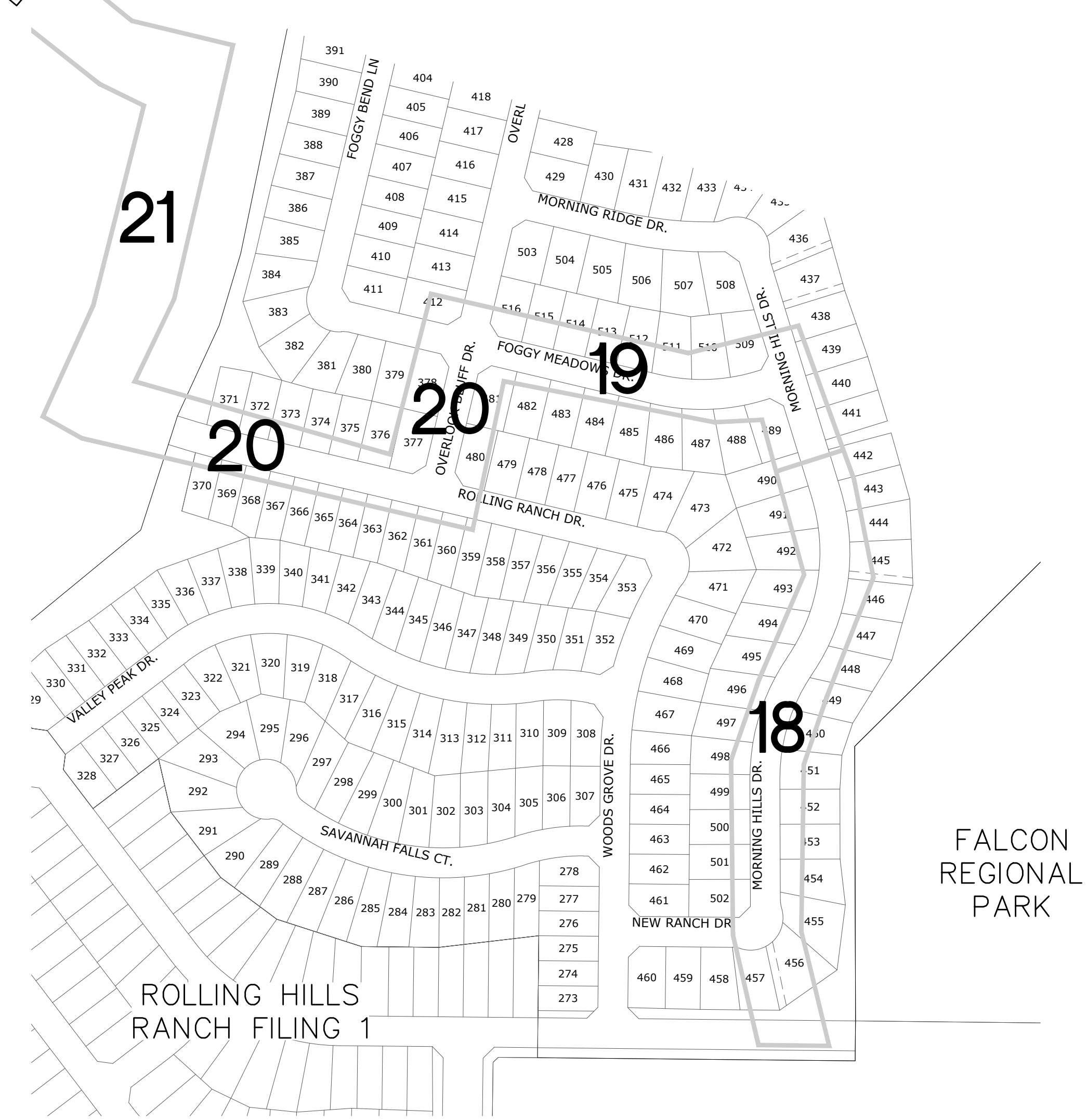
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT BEEN STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES ET THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

APPROVED
 Engineering Department
 12/08/2021 9:35:26 AM
Jennifer Irvine
 JENNIFER IRVINE, P.E.
 COUNTY ENGINEER / ECM ADMINISTRATOR
 EPC Planning & Community Development Department


Log	9/13/2021	Log	10/7/2021	Log	06/09/2022	Date	10/7/2021	Appr.	
Revisions									
No.	1	2	3	No.					
TECH CONTRACTORS DRIVE 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457									
MERIDIAN RANCH									
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS COVER SHEET									
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020				
Scale	AS SHOWN			1 of 44					



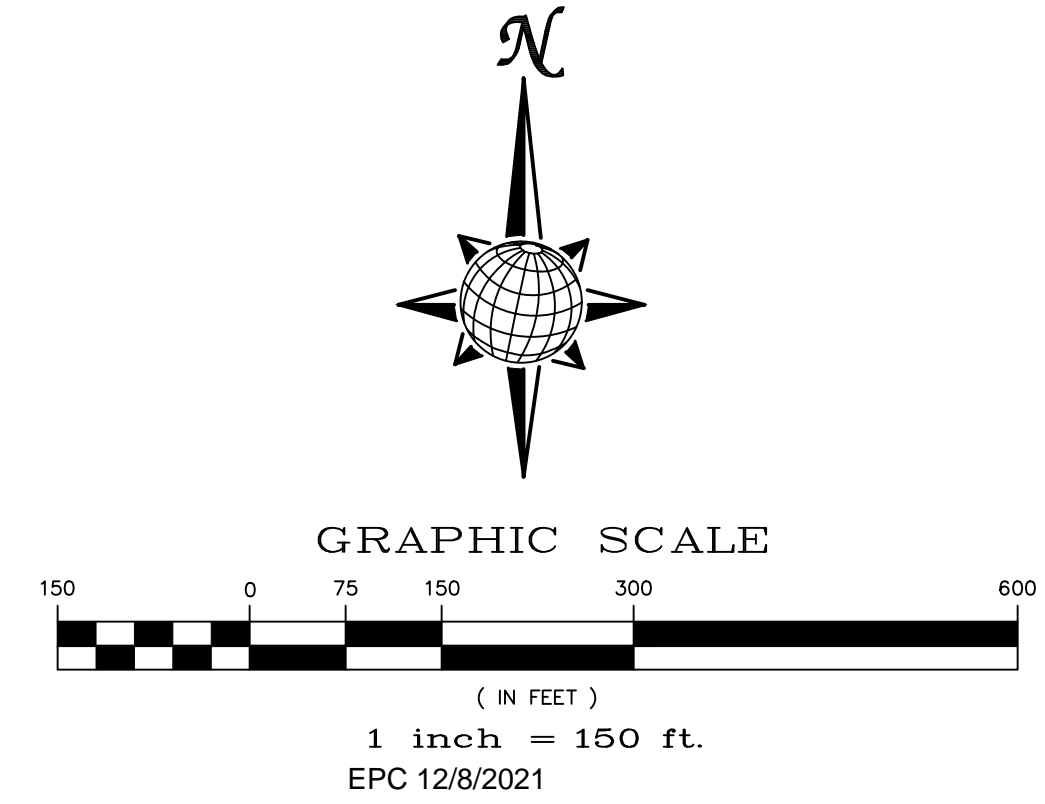
SEE BELOW
LEFT



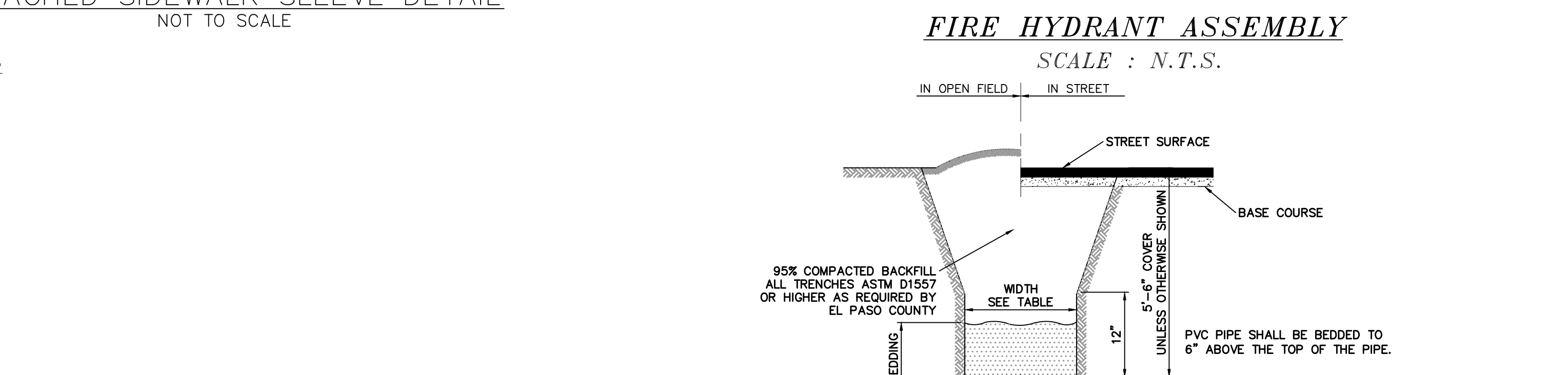
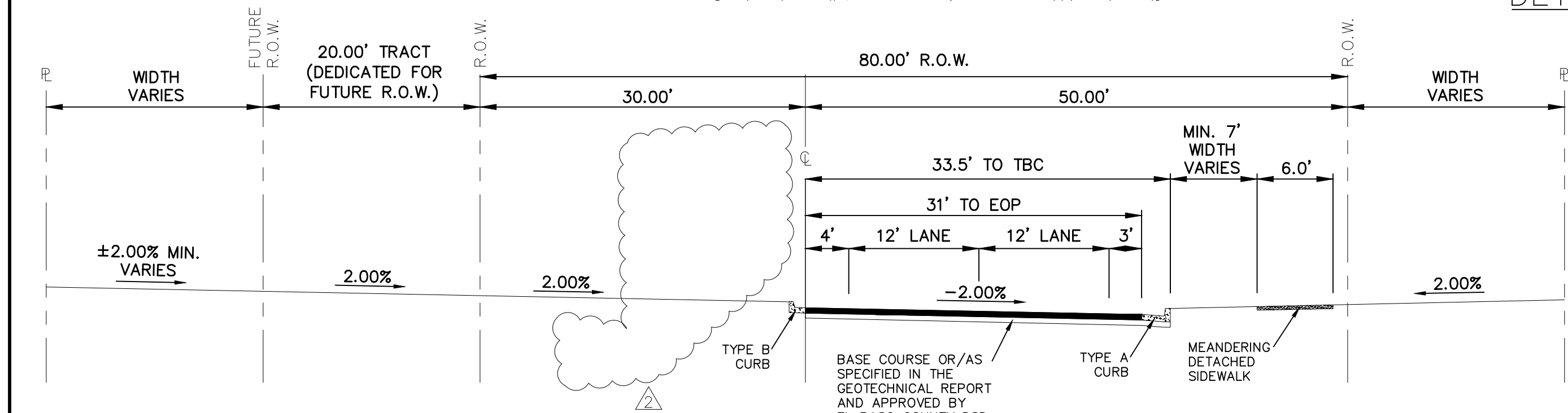
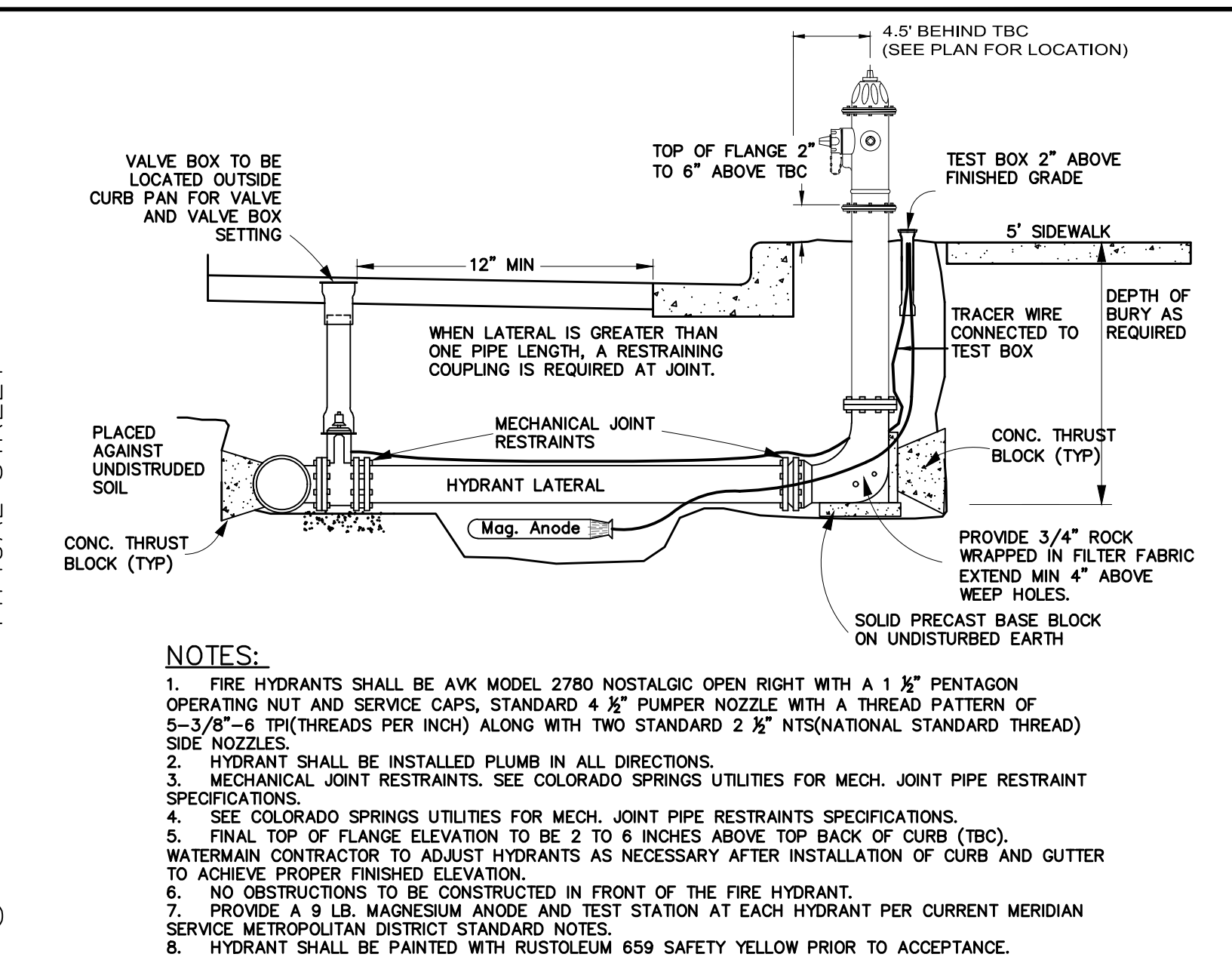
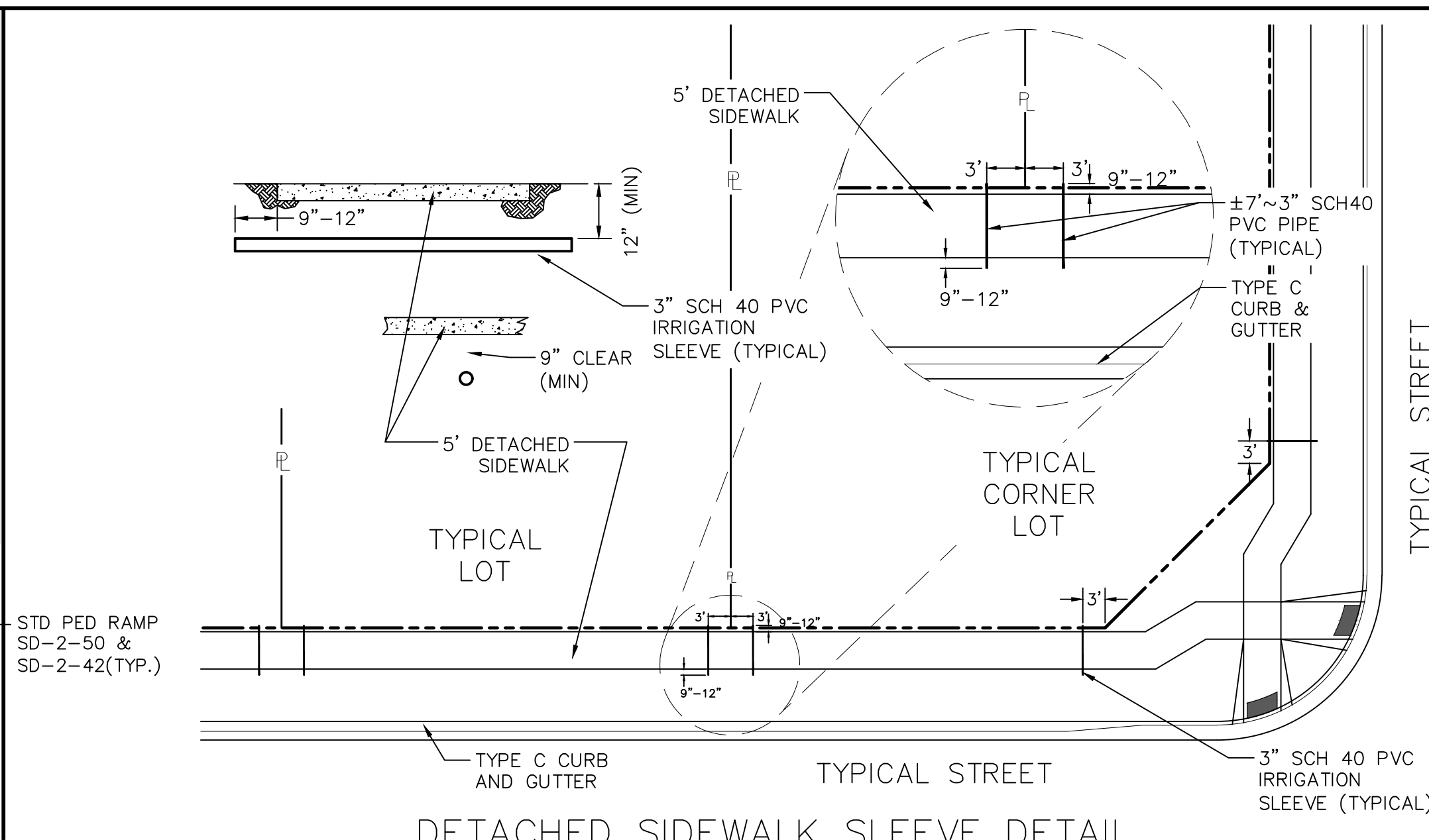
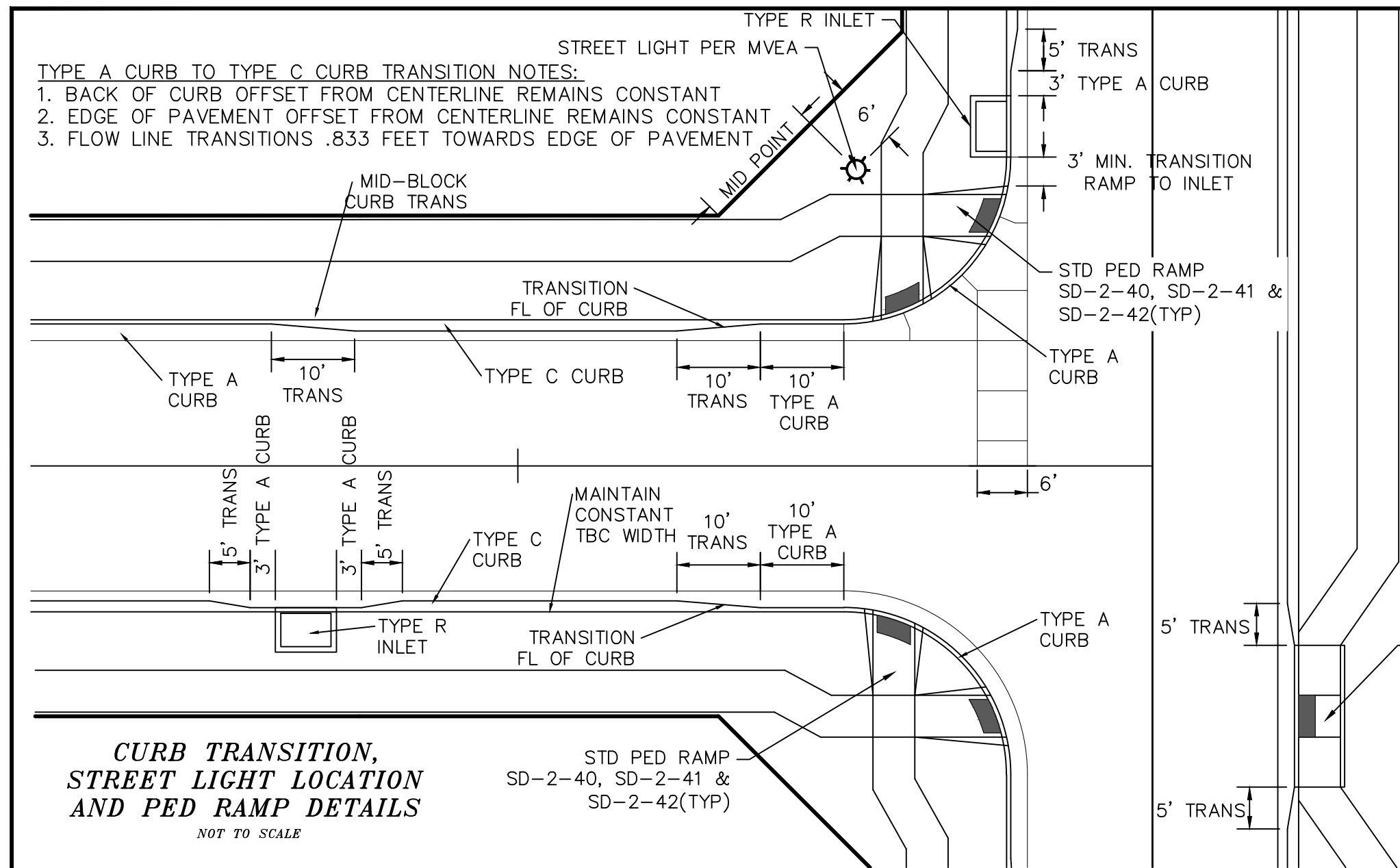
TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

Scale		AS SHOWN		2 of 44	
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS INDEX SHEET					
 MERIDIAN RANCH					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
No.		Revisions		Date	
1		2			
LIGHT POLES SS SEREVIES WATER SERVICES REX ROAD & 12' WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,35,36,38)		LOG		9/15/2021	
REUSE BOUNDARY LOT LINES FOR 6773 ADD TRACT F		LOG		10/7/2021	

AS-BUILT
06/11/2024

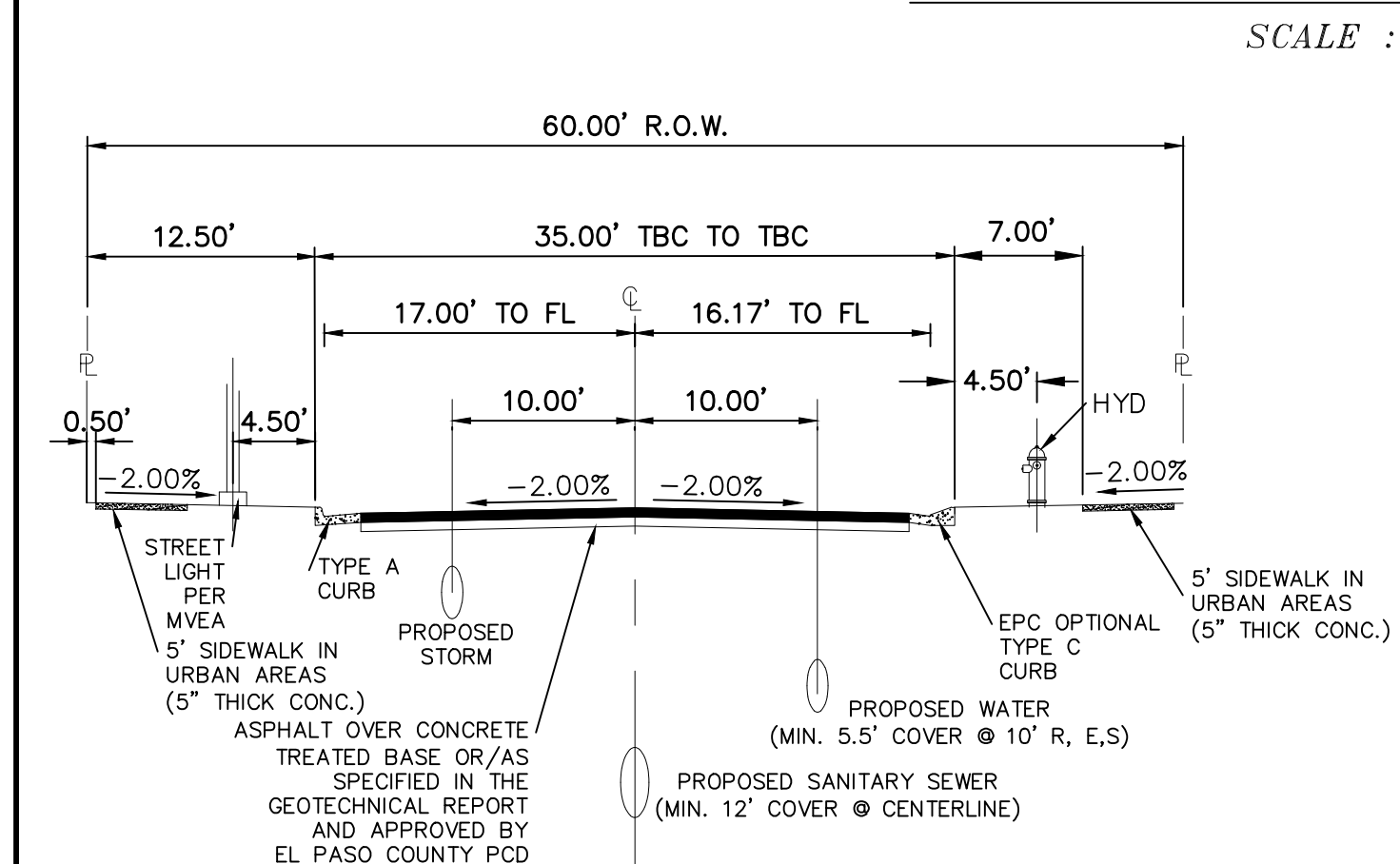


S:\OneDrive\Civil\p\g\Estates at Rolling Hills Filing 2\DWG\PLAN SHEETS\IMPROVEMENT PLANS\01-ERN2.dwg, 11/8/2021 7:41:11 AM



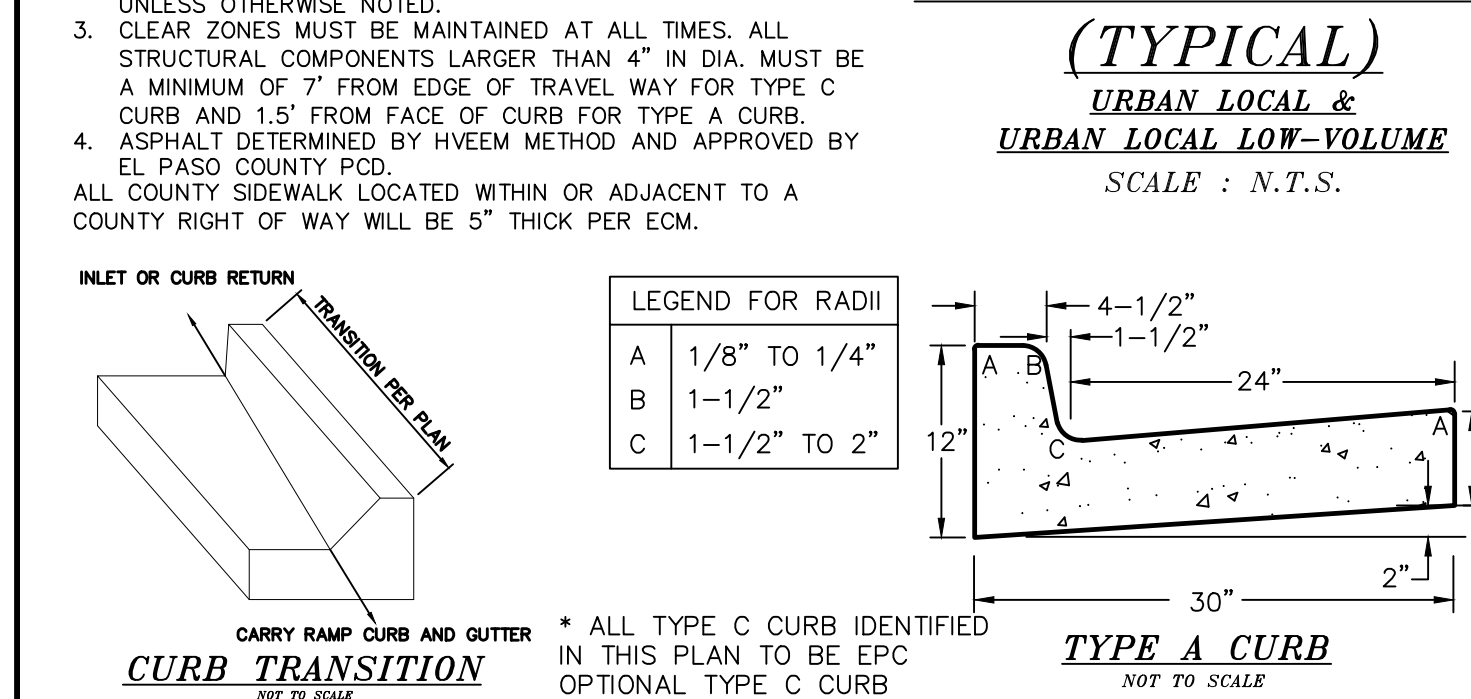
NOTES:
 1. ASPHALT DETERMINED BY HVEEM METHOD AND APPROVED BY EL PASO COUNTY PCD.

**REX ROAD
 TEMP. MINOR ARTERIAL**
 SCALE : N.T.S.



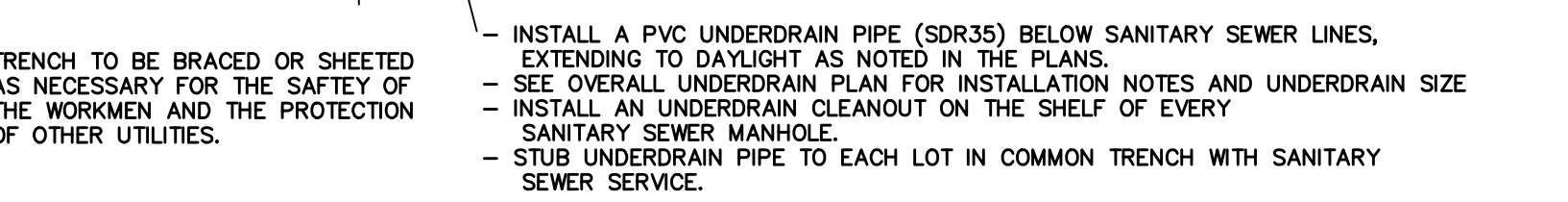
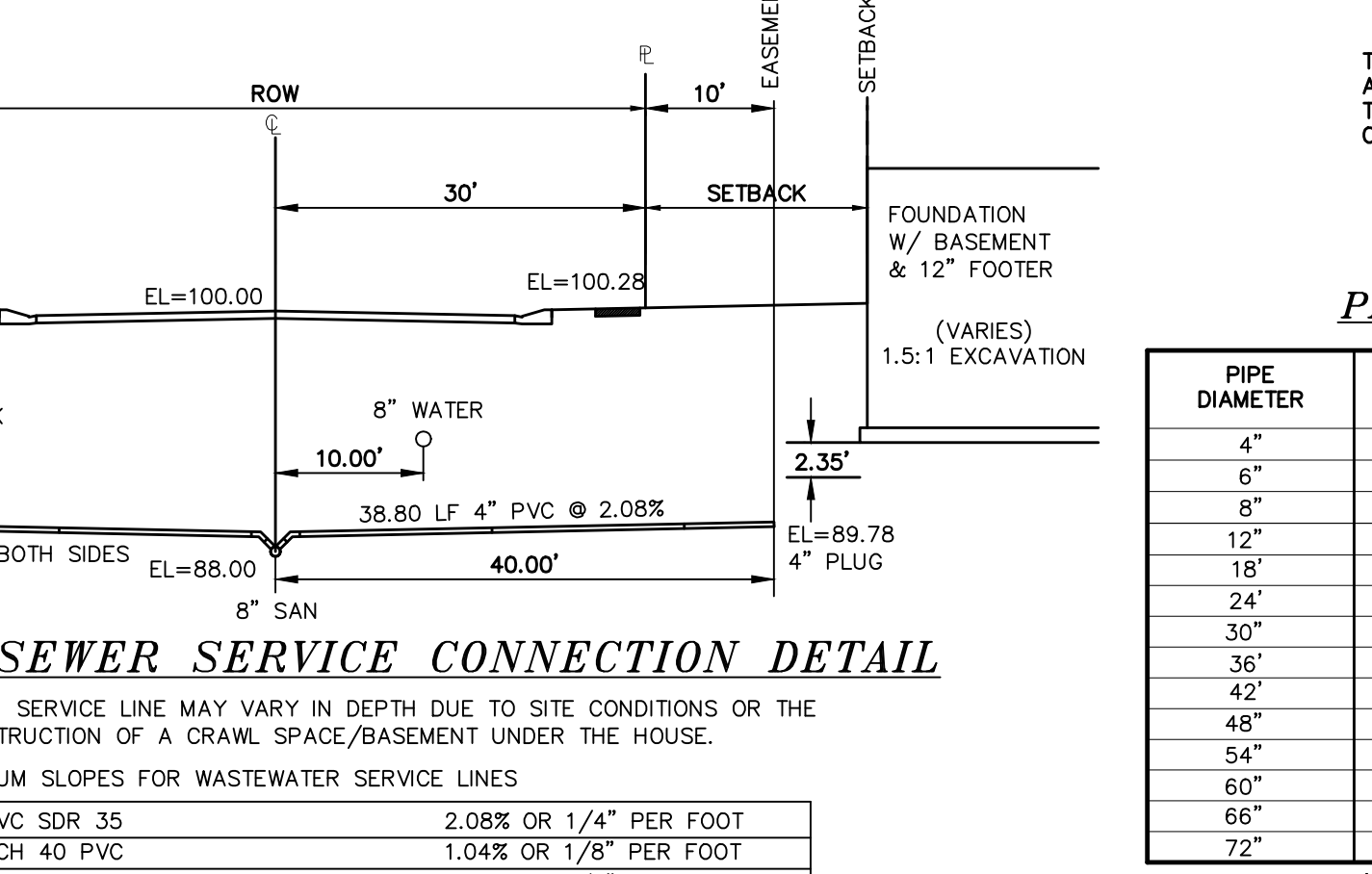
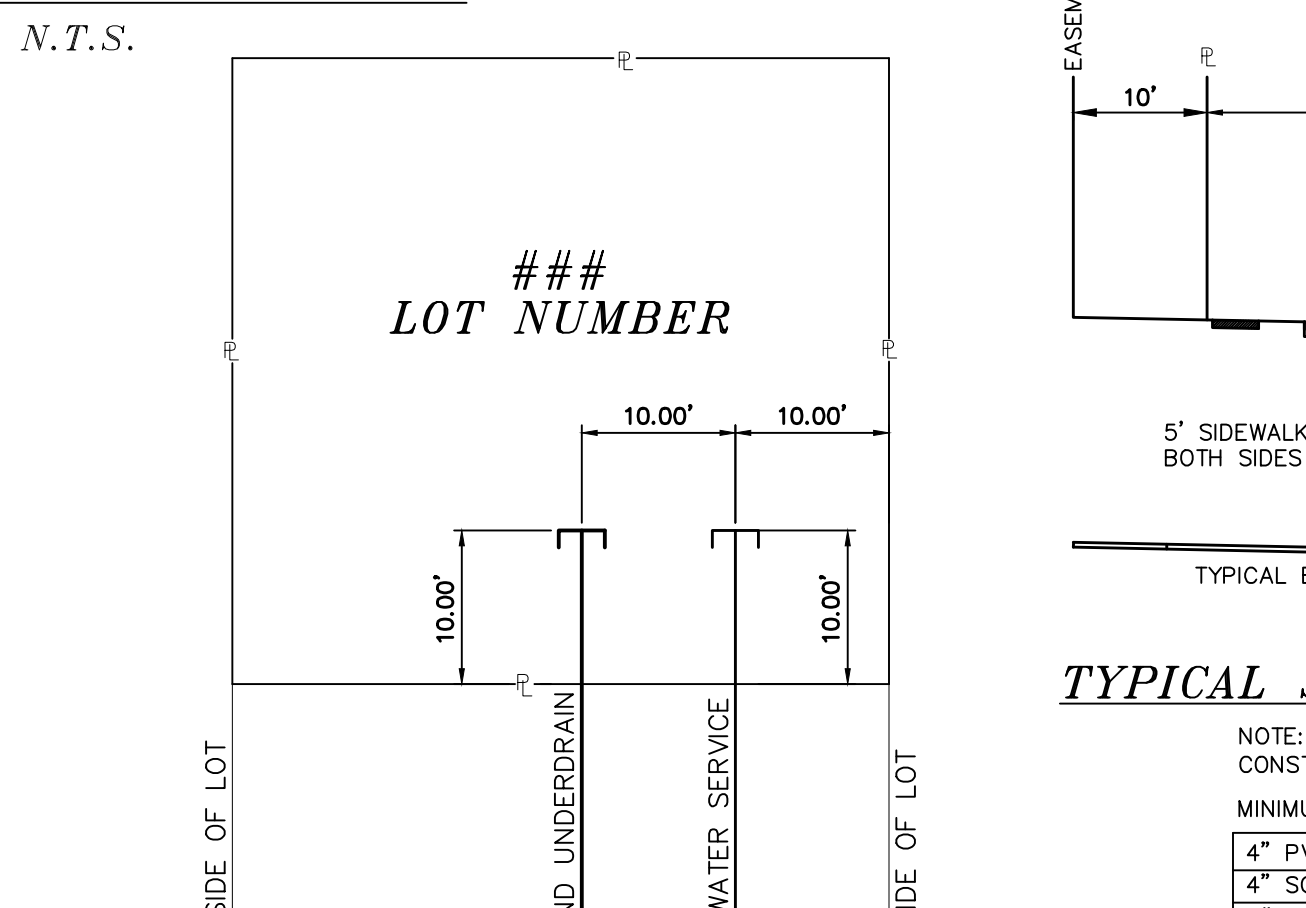
NOTES:
 1. NON-STANDARD STREET SECTION PER DEVIATION NO. DEV134 APPROVED BY EL PASO COUNTY PCD.
 2. OPTIONAL TYPE C CURB USED ON ALL RESIDENTIAL STREETS UNLESS OTHERWISE NOTED.
 3. CLEAR ZONES MUST BE MAINTAINED AT ALL TIMES. ALL STRUCTURAL COMPONENTS LARGER THAN 4" IN DIA. MUST BE A MINIMUM OF 7' FROM EDGE OF TRAVEL WAY FOR TYPE C CURB AND 1.5' FROM FACE OF CURB FOR TYPE A CURB.
 4. ASPHALT DETERMINED BY HVEEM METHOD AND APPROVED BY EL PASO COUNTY PCD.
 ALL COUNTY SIDEWALK LOCATED WITHIN OR ADJACENT TO A COUNTY RIGHT OF WAY WILL BE 5" THICK PER ECM.

**60' R.O.W.
 RESIDENTIAL ROAD
 (TYPICAL)
 URBAN LOCAL &
 URBAN LOCAL LOW-VOLUME**
 SCALE : N.T.S.



CURB TRANSITION
 NOT TO SCALE

* ALL TYPE C CURB IDENTIFIED IN THIS PLAN TO BE EPC OPTIONAL TYPE C CURB



PIPE CHART

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	4'-0"
6"	1'-6"	4'-0"
8"	1'-8"	4'-0"
12"	2'-0"	4'-0"
18"	3'-0"	4'-0"
24"	3'-6"	4'-0"
30"	4'-0"	6'-0"
36"	5'-0"	6'-0"
42"	6'-0"	8'-0"
48"	6'-0"	8'-0"
54"	8'-0"	8'-0"
60"	8'-0"	8'-0"
66"	8'-0"	10'-0"
72"	10'-0"	12'-0"

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]	WMH	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]		ANODE (CATHODIC PROTECTION)
[Symbol]	TS	TEST STATION
[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]	RI-1	STOP SIGN - RI-1, 30x30 UNLESS OTHERWISE NOTED
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')

**AS-BUILT
 06/11/2024**

TECH CONTRACTORS
 11886 STAPLETON DRIVE
 FALCON, CO 80831
 TELEPHONE: 719.495.7444
 FAX: 719.495.2457

MERIDIAN RANCH

**THE ESTATES AT ROLLING HILLS RANCH FILING 2
 STREET AND UTILITY PLANS
 DETAIL SHEET**

Scale AS SHOWN 4 of 44

Drawn by LOG Checked by TJK Date SEPT 2020

Log 9/15/2021 10/7/2021

Revisions

No. 1 2 3

Date

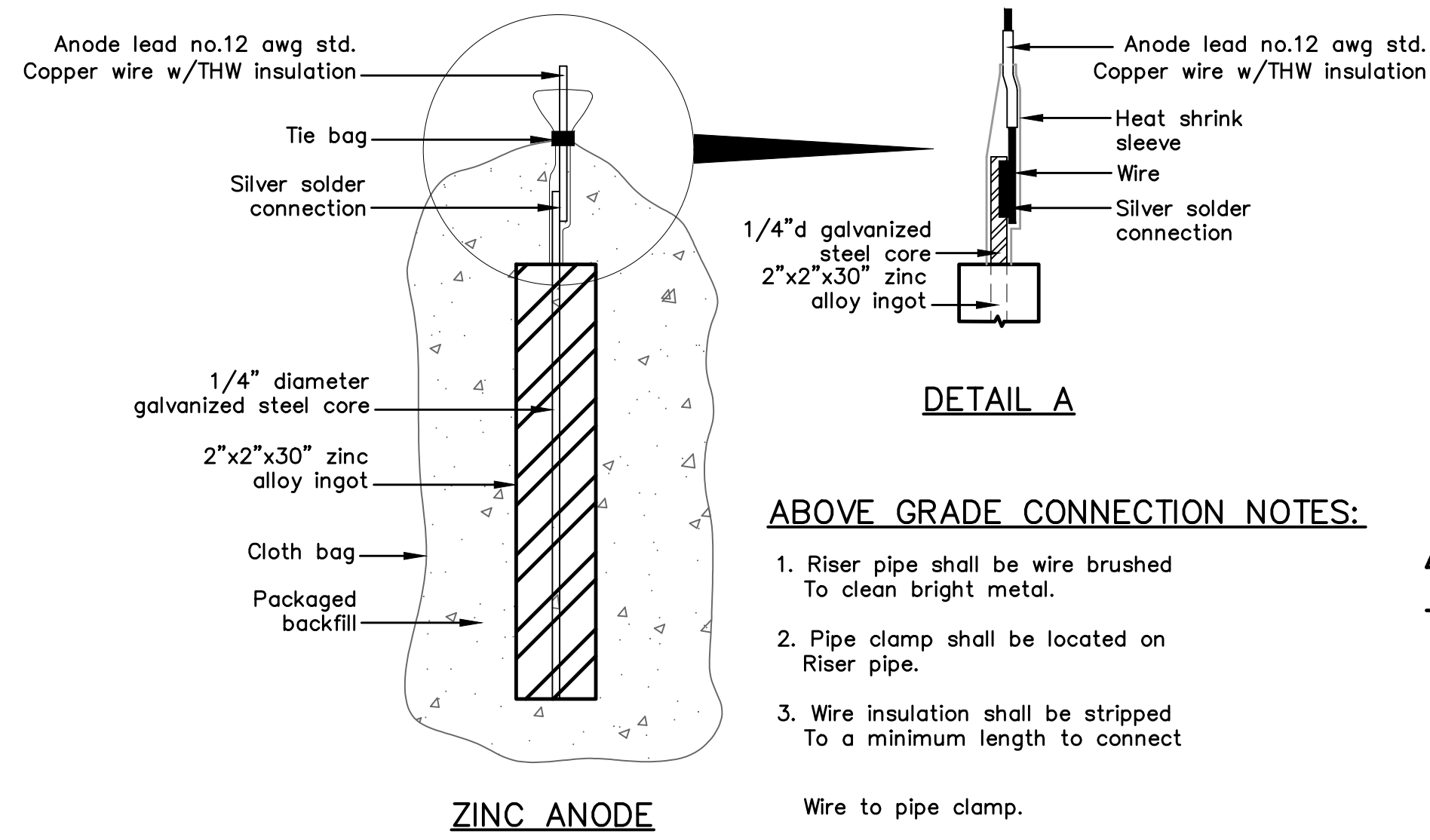
Appr.

Log

Professional Engineer

31429
 0-27-2021

PCD PROJECT NO. SF-20-018

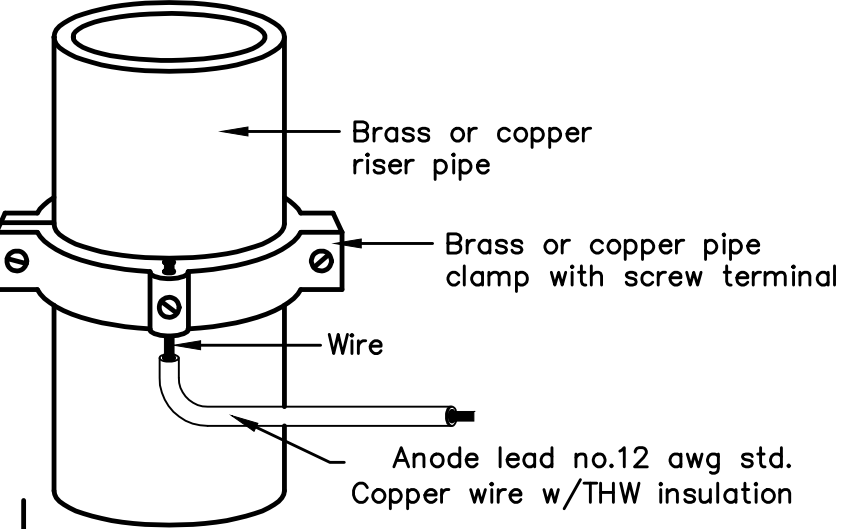


ZINC ANODE AND CONNECTORS FOR 1" AND 2" WATER SERVICE

PACKAGED BACKFILL COMPOSITION:

- 75% gypsum
- 20% bentonite
- 5% sodium sulfate

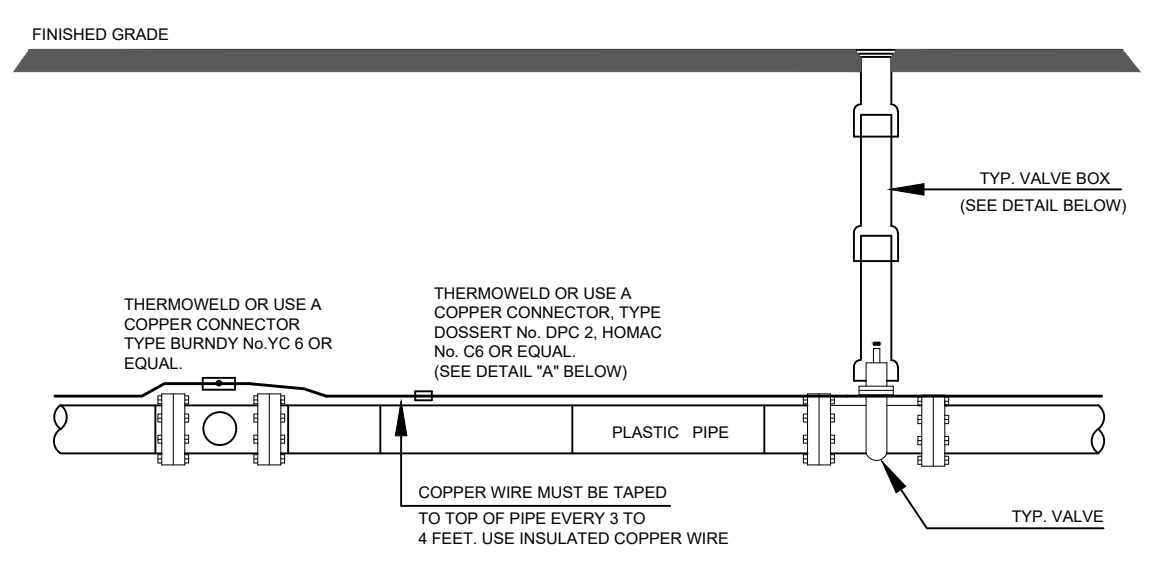
Ingot weight: 30 lbs.
Pkgd. Weight: 70 lbs. Approx.



ANODE LEAD ABOVE GRADE CONNECTION

ABOVE GRADE CONNECTION NOTES:

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



FIELD INSTALLATION OF POLYETHYLENE WRAP FOR DIP PIPE AND FITTINGS.

NOTE

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

STEP 1:

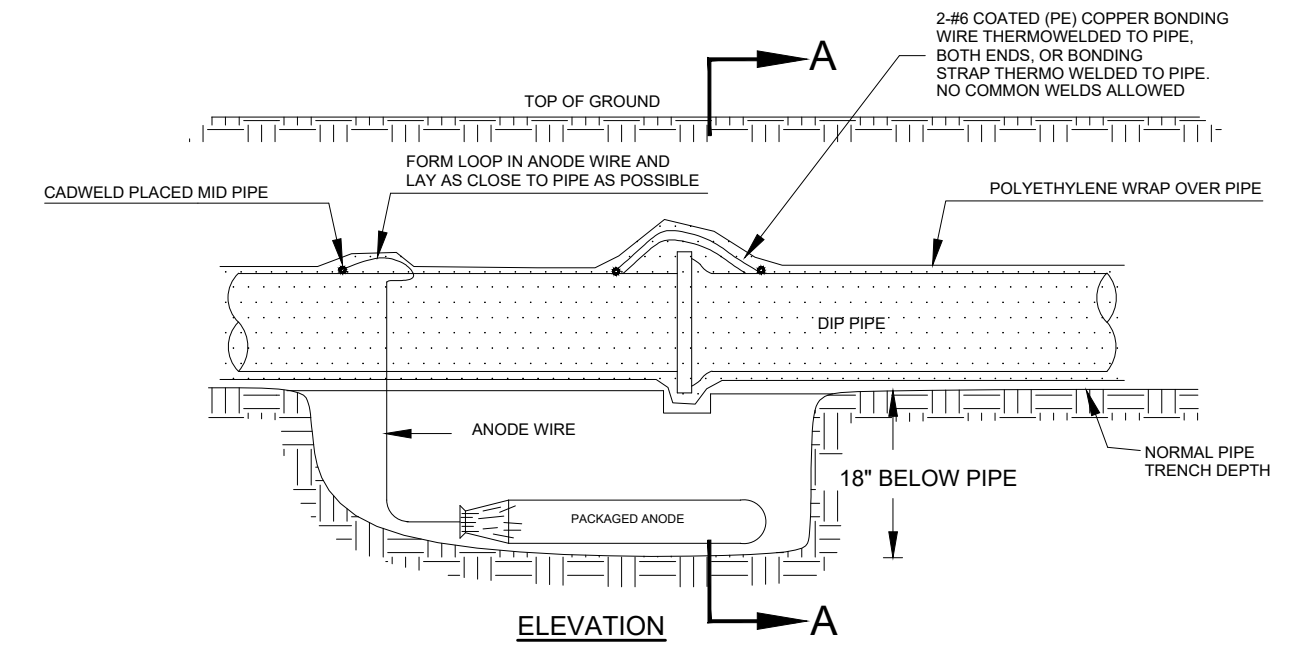
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. TAPE 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.



Anode Design

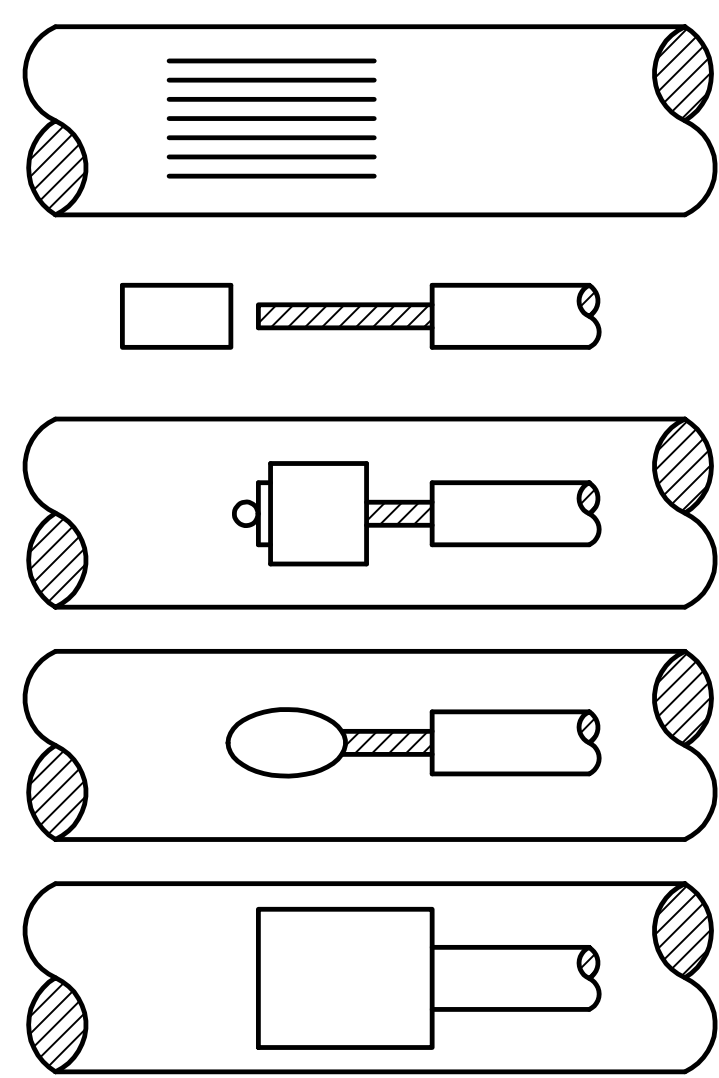
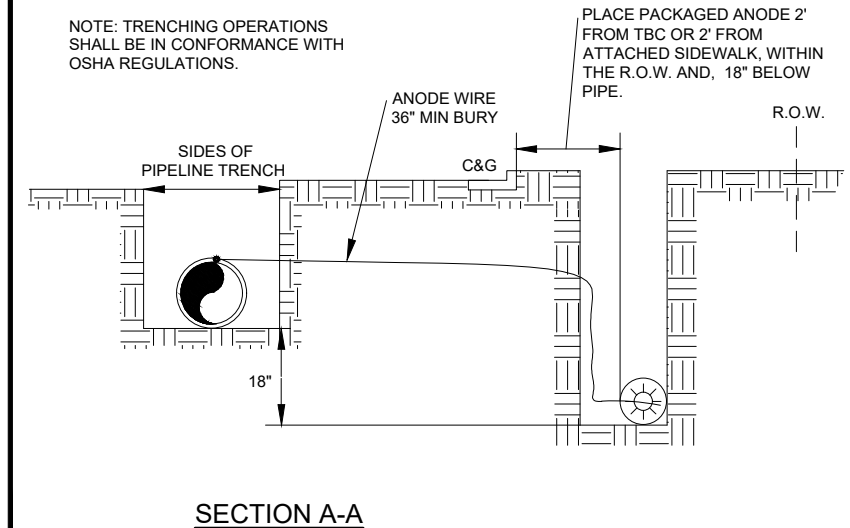
For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet (see note 2)	Anode Weight (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.

NOTES

- Cadweld connection to be primed and coated carefully. Packed anode should be covered with fine soil containing no rocks or dirt clumps, tamped.
- 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.
- Packaged anode to be wetted and covered with soil prior to backfilling.

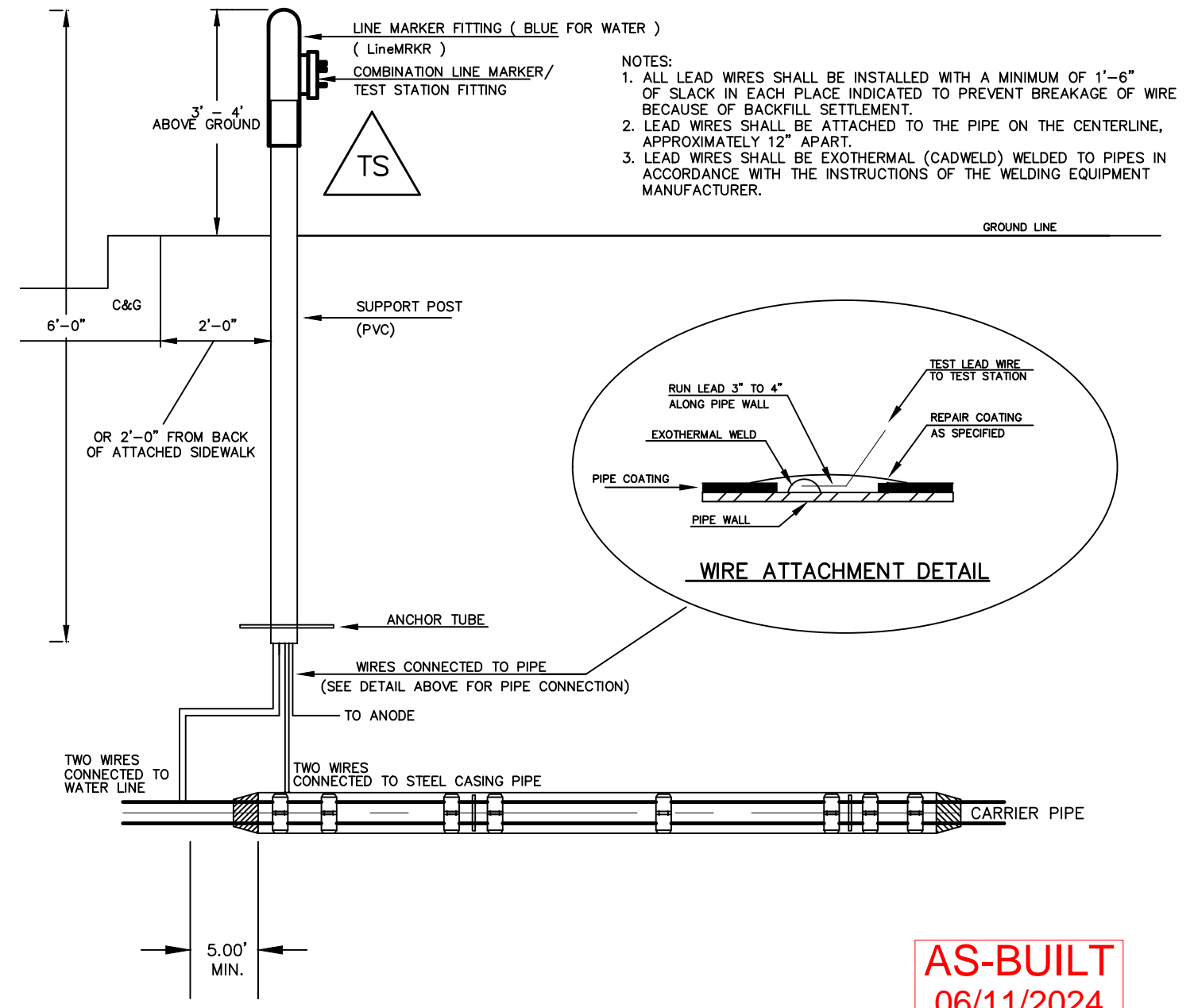


- STEP 1.** File structure connection area (3 in x 3 in) to bare shiny metal and clean.
- STEP 2.** Strip insulation from wire. Attach sleeve where required by manufacturer.
- STEP 3.** Hold mold firmly with opening away from operator and ignite with flint gun.
- STEP 4.** Remove slag from connection 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:

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

EXOTHERMIC WELD PROCESS



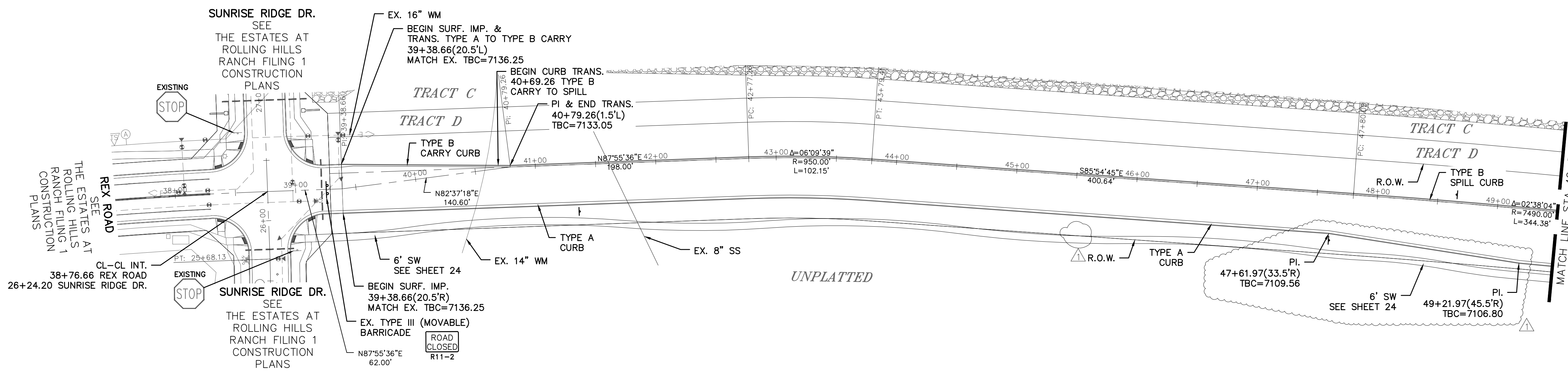
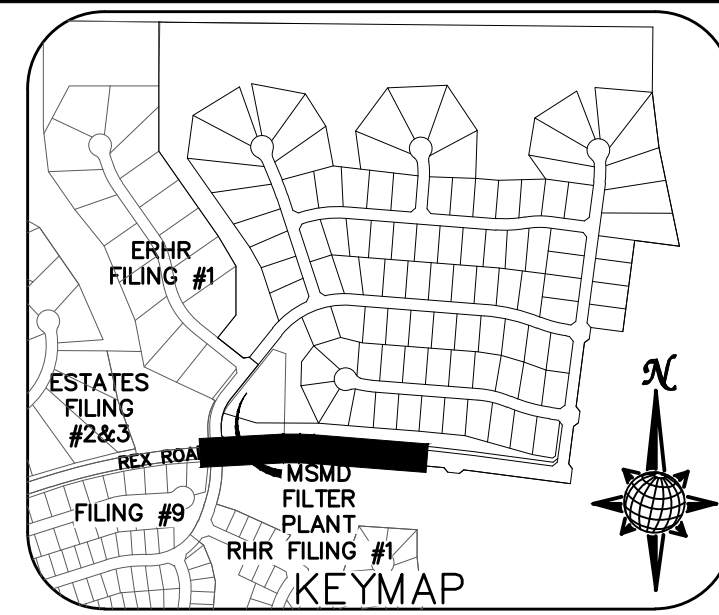
TYPICAL DETAIL FOR TEST STATION WITH STEEL SLEEVE INSTALLATION

NOTES:

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

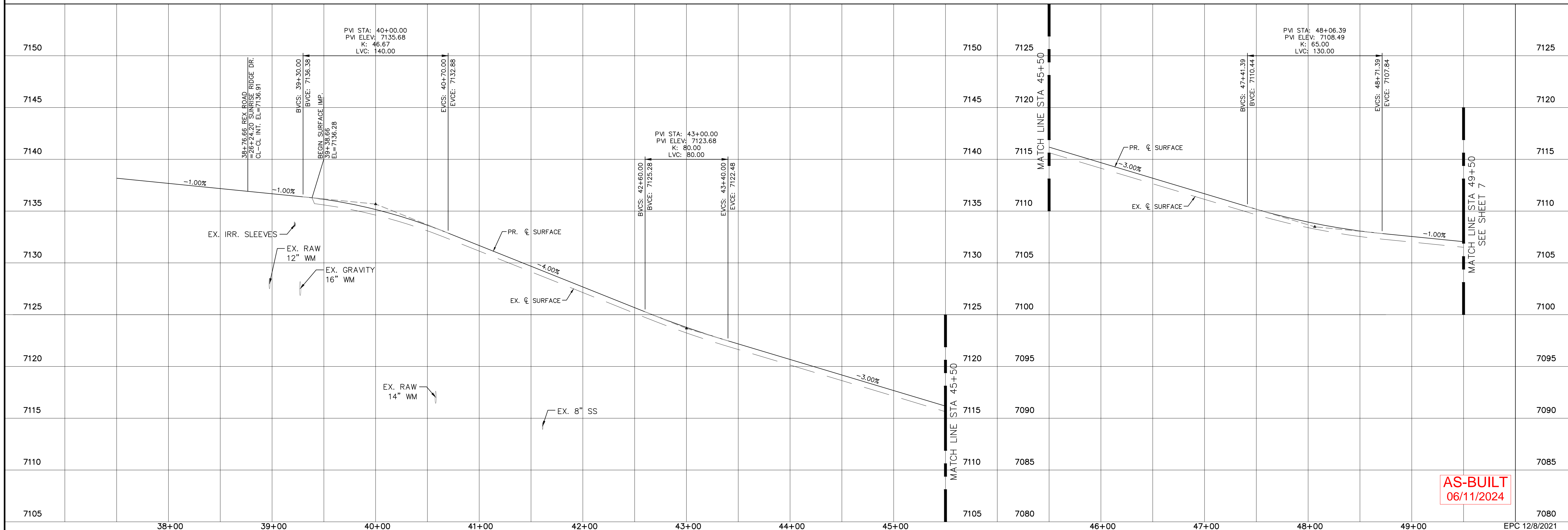
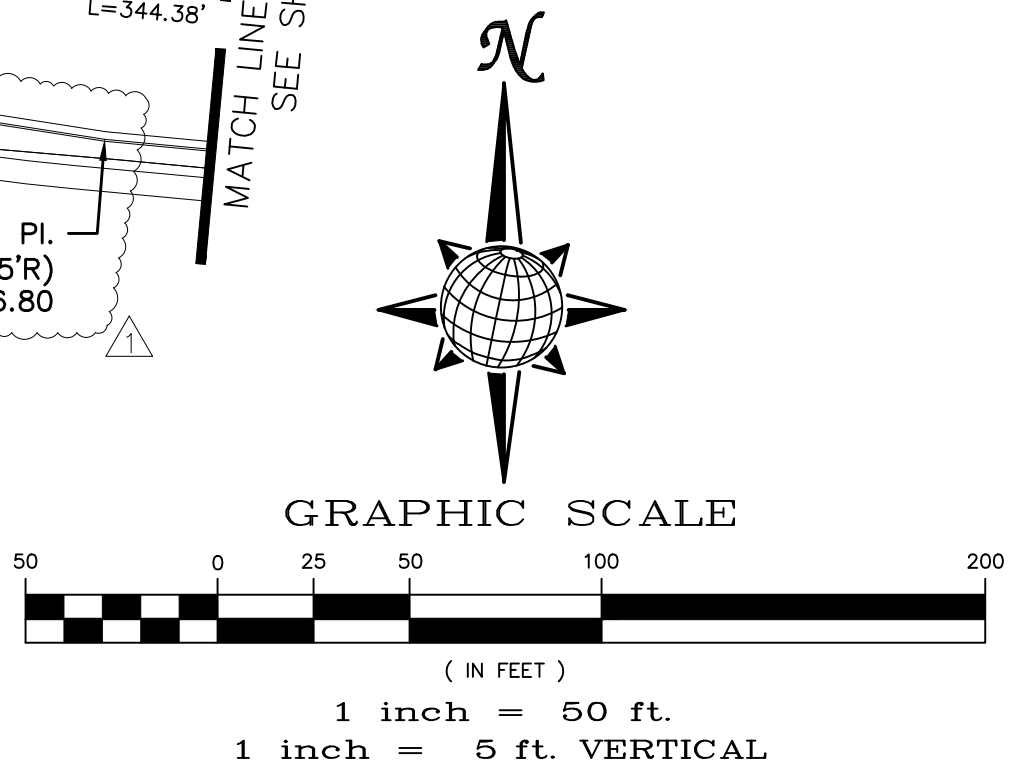
AS-BUILT
06/11/2024

Log	9/15/2021	10/7/2021		Date		Appr.	
	LIGHT POLES SS SEREVIES, WATER SERVICES, REX ROAD & 12 TH WIM (SH 1,2,6,7,8,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,36,38)						
	REUSE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F						
	1	2	3	No.		Revisions	
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p>MERIDIAN RANCH</p>							
<p>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS DETAIL SHEET</p>							
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020		
Scale	AS SHOWN	5	of	44			



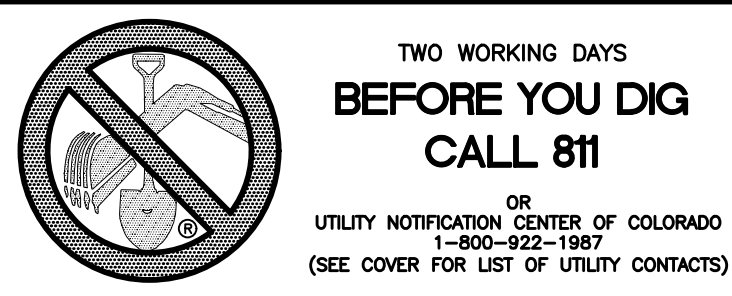
REX ROAD

TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

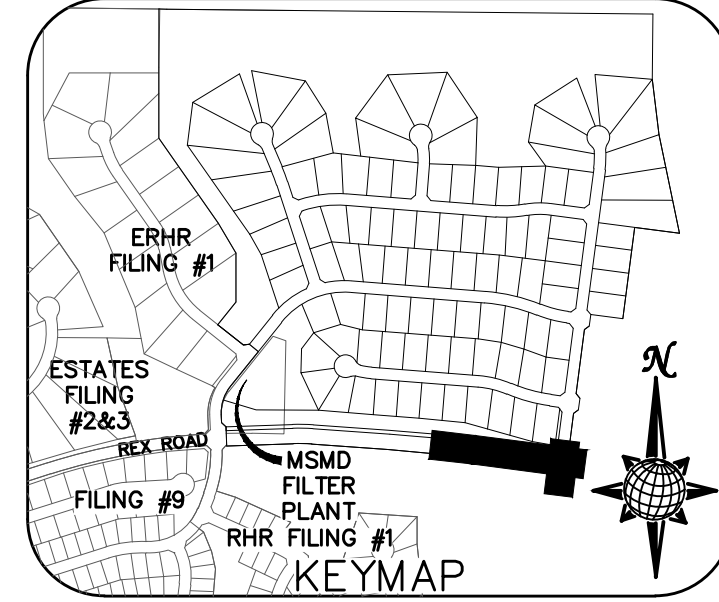


AS-BUILT
06/11/2024

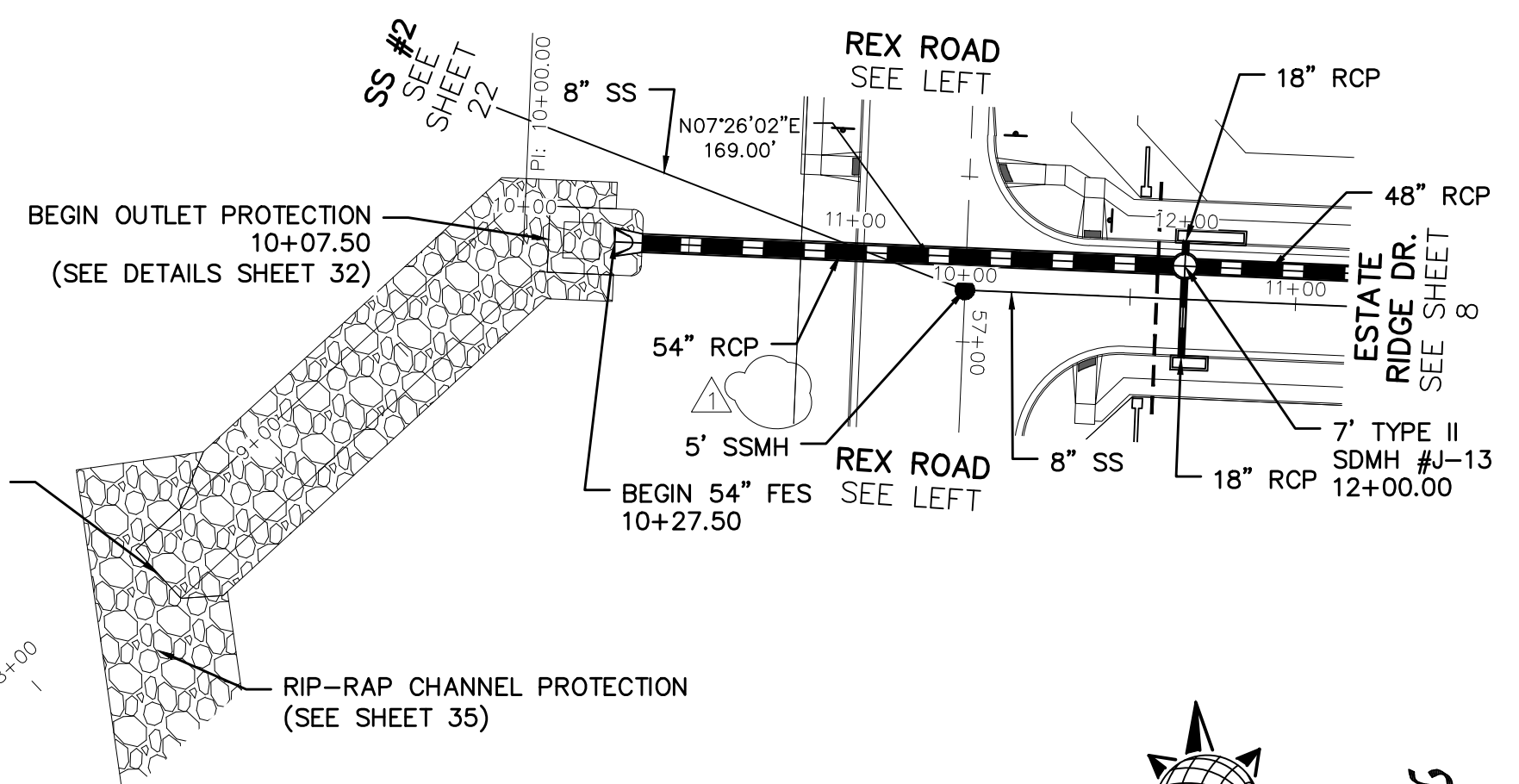
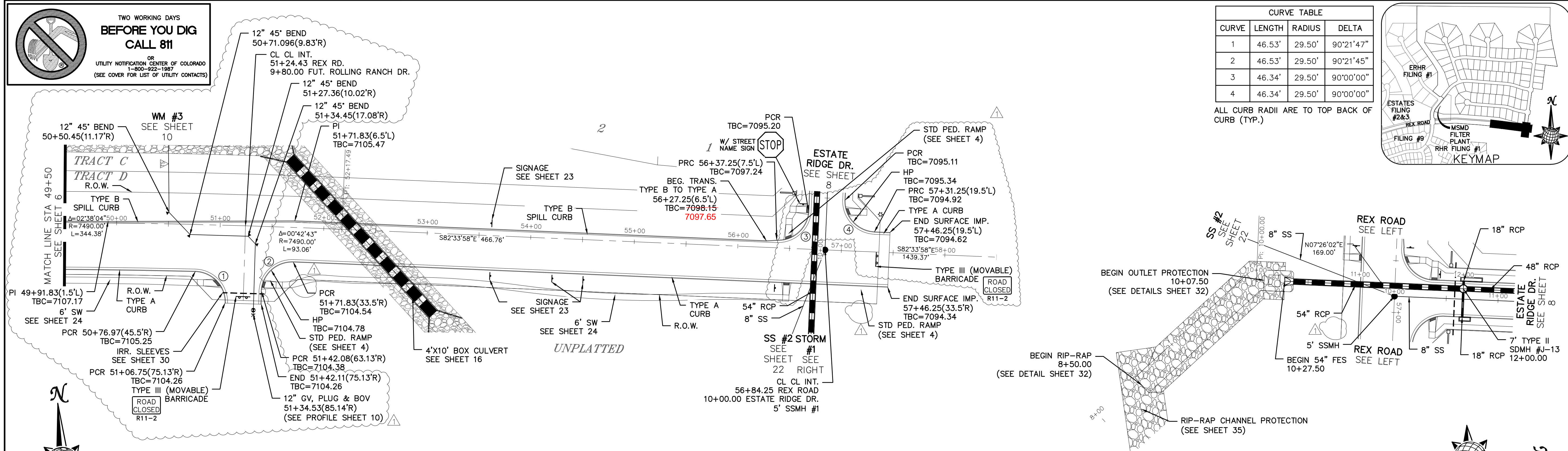
Log	9/15/2021	Light Poles SS Serenities Water Services REX ROAD & 12' WM (SH 1,2,6,7,8,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,35,38)
Log	10/7/2021	REUSE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F
Date		
Revisions		
No.		
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>		
<p>MERIDIAN RANCH</p>		
<p>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS REX ROAD</p>		
Drawn by	LOG	
Checked by	TAK	
Date		SEPT 2020
Scale	AS SHOWN	
	6	of 44



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
1	46.53'	29.50'	90°21'47"
2	46.53'	29.50'	90°21'45"
3	46.34'	29.50'	90°00'00"
4	46.34'	29.50'	90°00'00"

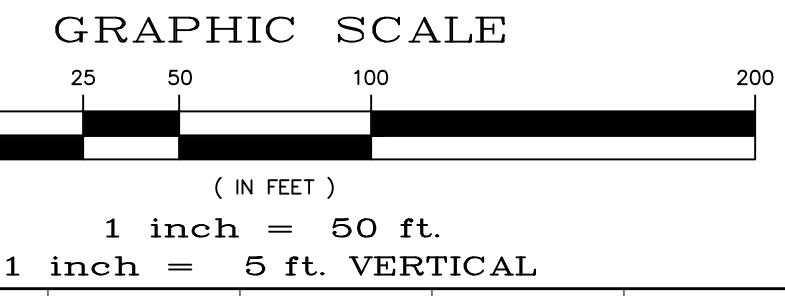


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

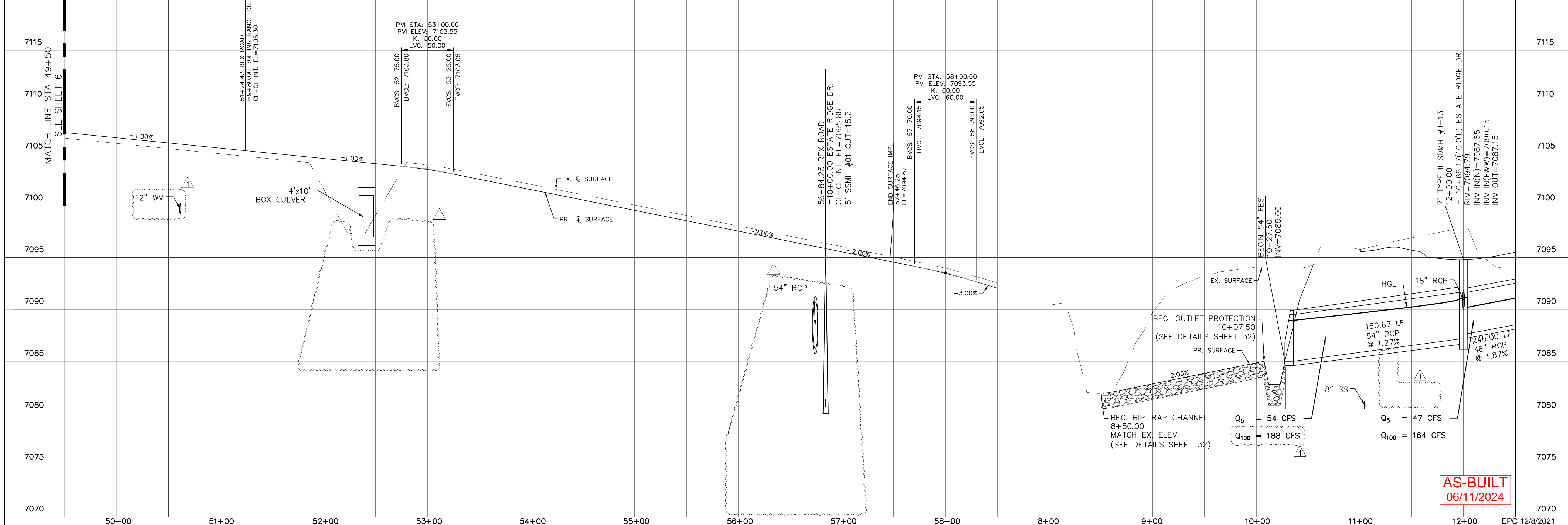


REX ROAD

TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

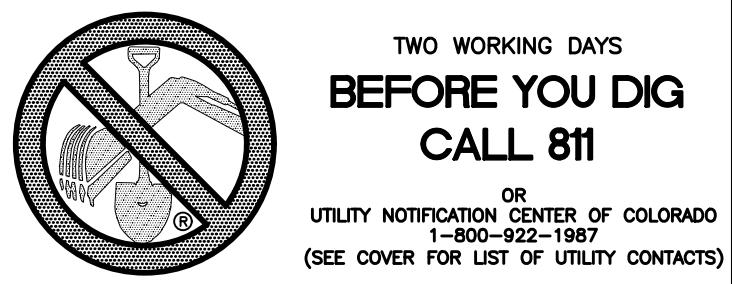


STORM #1



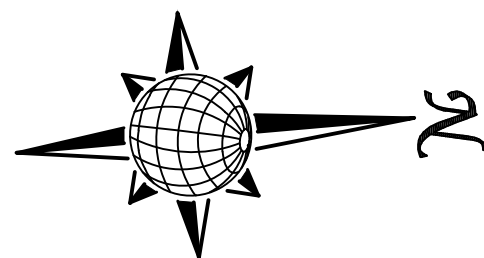
AS-BUILT
06/11/2024

Log	9/15/2021	Log	10/7/2021	Date		Appr.	
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS REX ROAD + STORM #1</p>							
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020		
Scale	AS SHOWN		7	of	44		

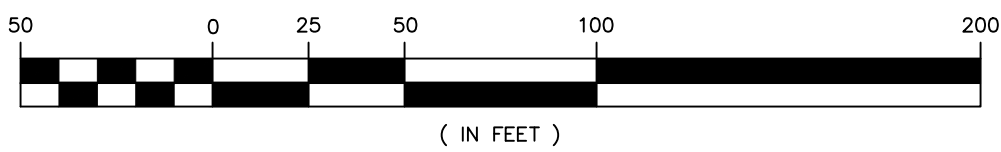


CURVE	LENGTH	RADIUS	DELTA
3	46.34'	29.50'	90°00'00"
4	46.34'	29.50'	90°00'00"
5	30.63'	19.50'	90°00'00"
8	30.63'	19.50'	90°00'00"
9	30.63'	19.50'	90°00'00"
10	30.63'	19.50'	90°00'00"
11	30.63'	19.50'	90°00'00"
12	30.63'	19.50'	90°00'00"

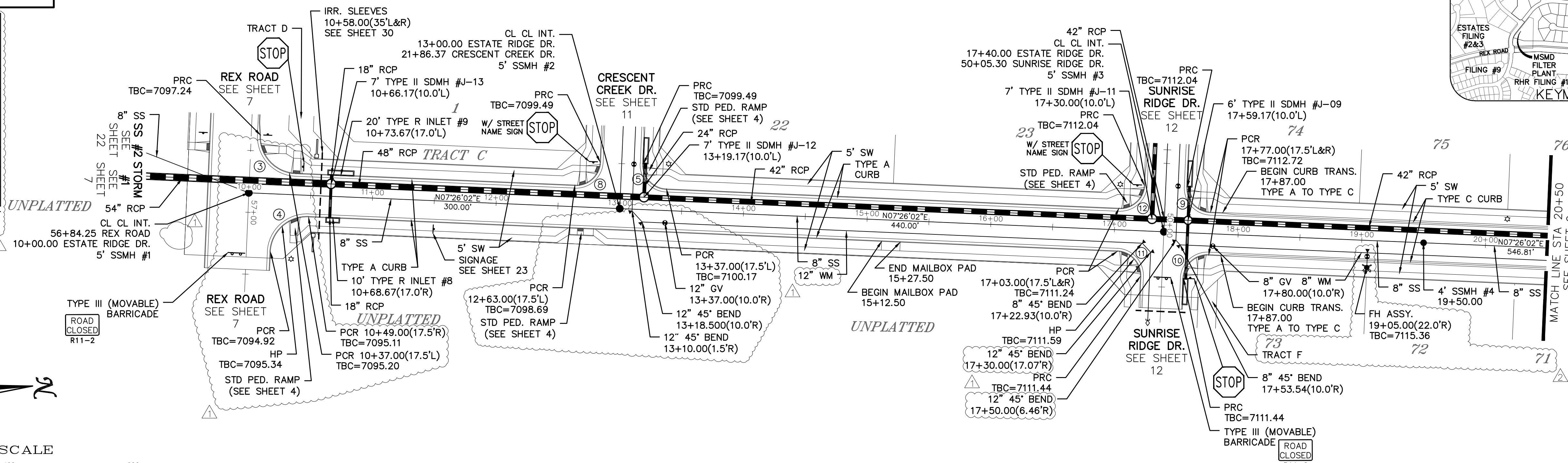
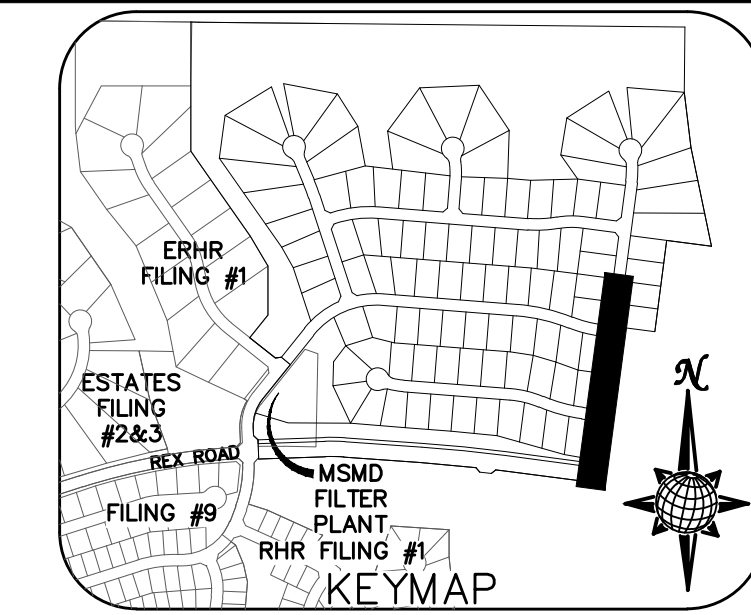
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



GRAPHIC SCALE

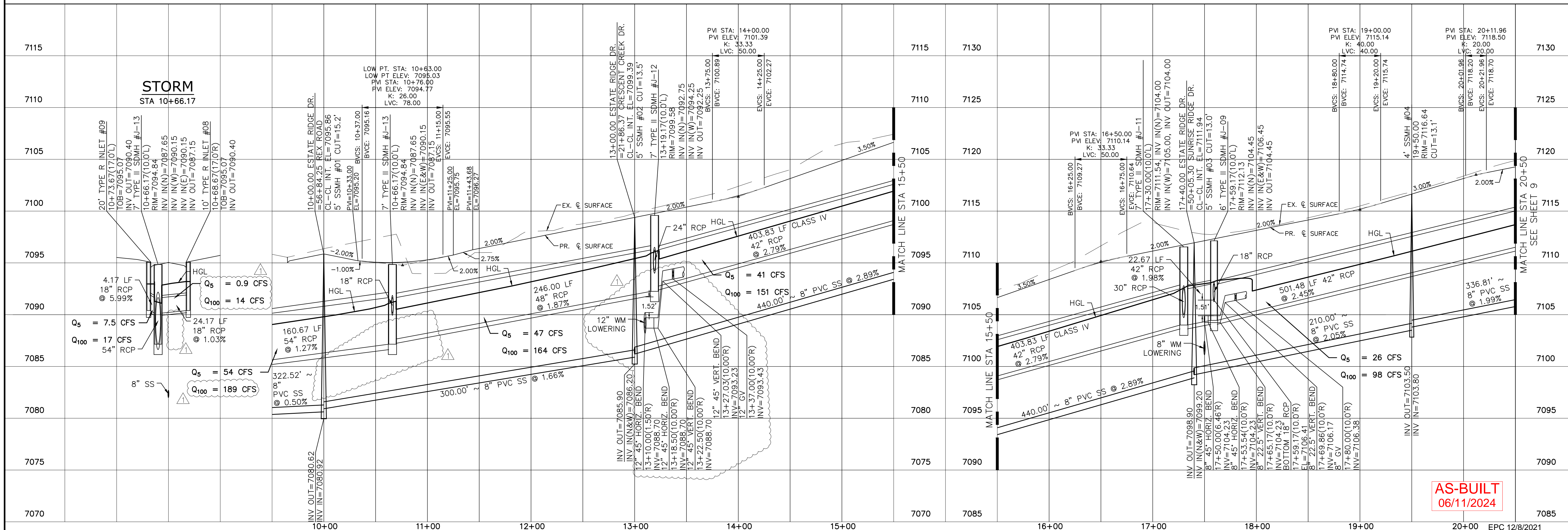


1 inch = 50 ft.
1 inch = 5 ft. VERTICAL



ESTATE RIDGE DR.

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



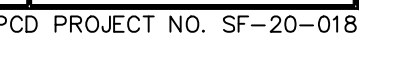
AS-BUILT
06/11/2024

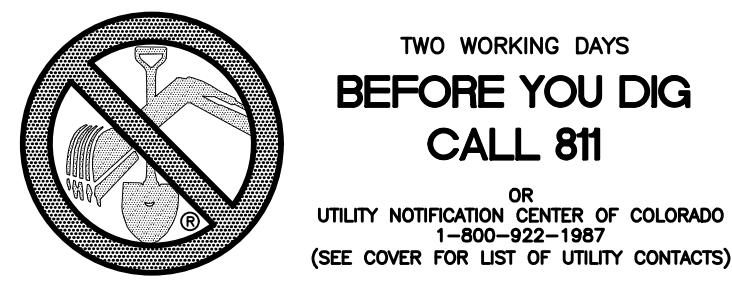
Log	Date	Appr.
9/15/2021		
10/7/2021		

TECH CONTRACTORS DRIVE
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

THE ESTATES AT ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
ESTATE RIDGE DR.

Scale: AS SHOWN
8 of 44
Drawn by: LOG
Checked by: TJK
Date: SEPT 2020



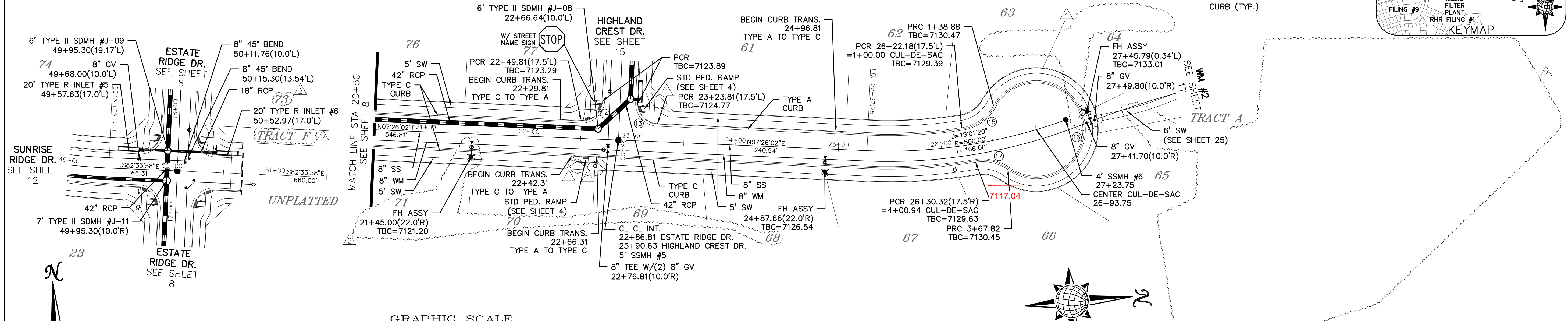
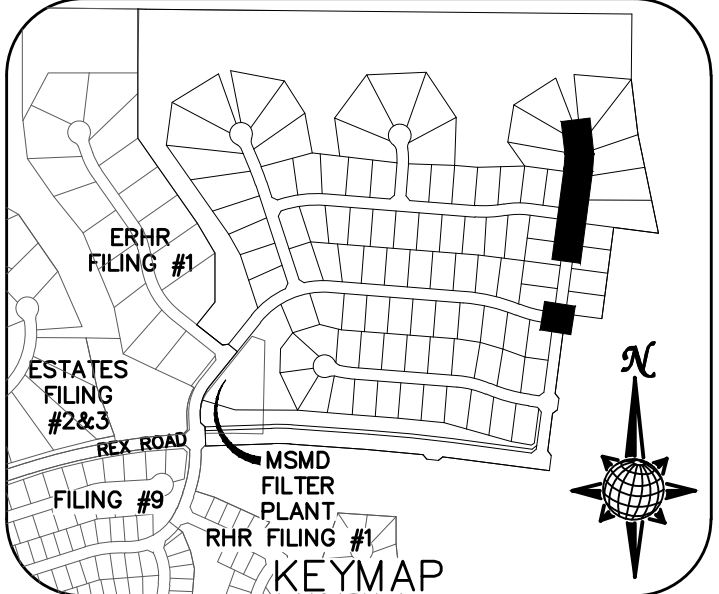


**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

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

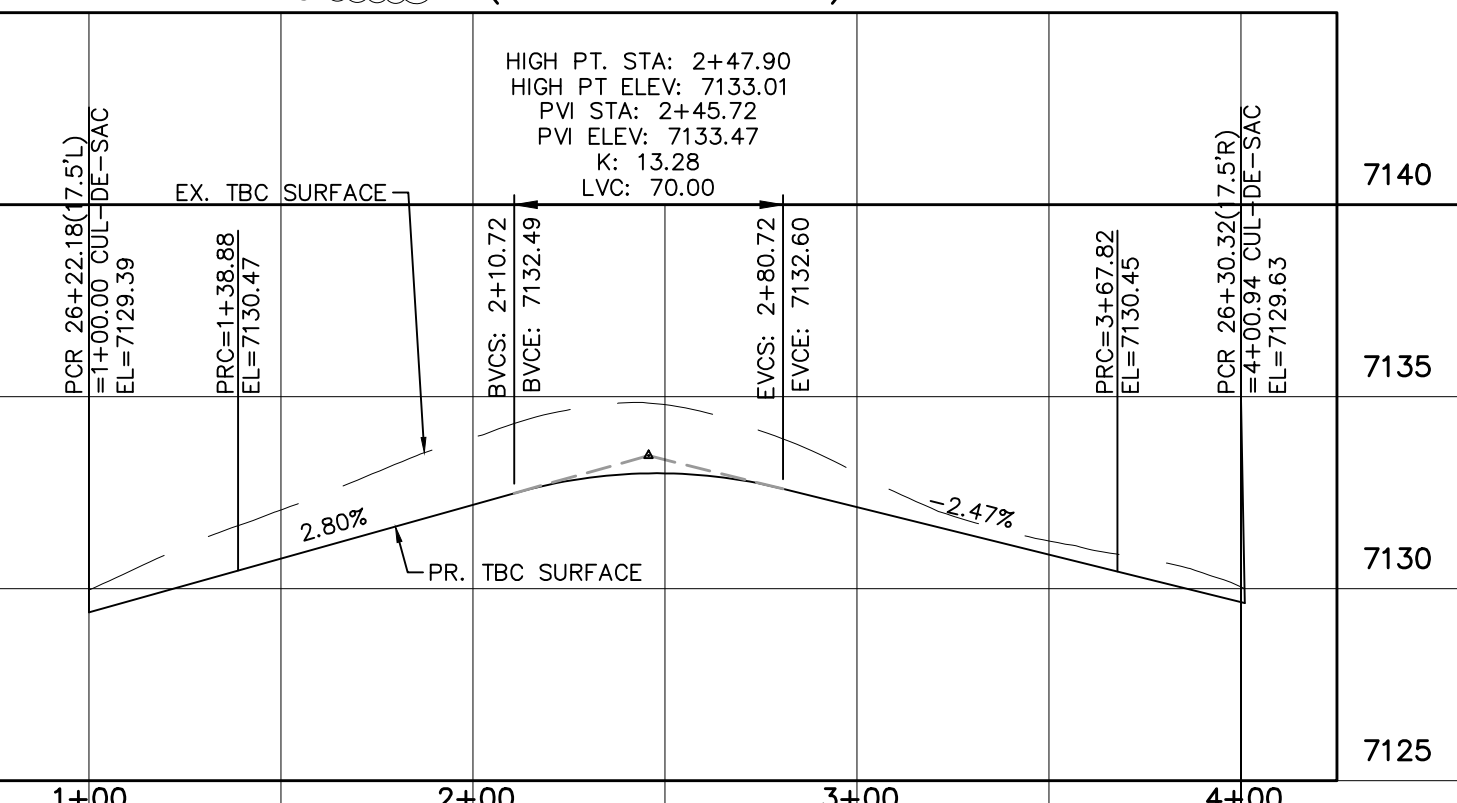
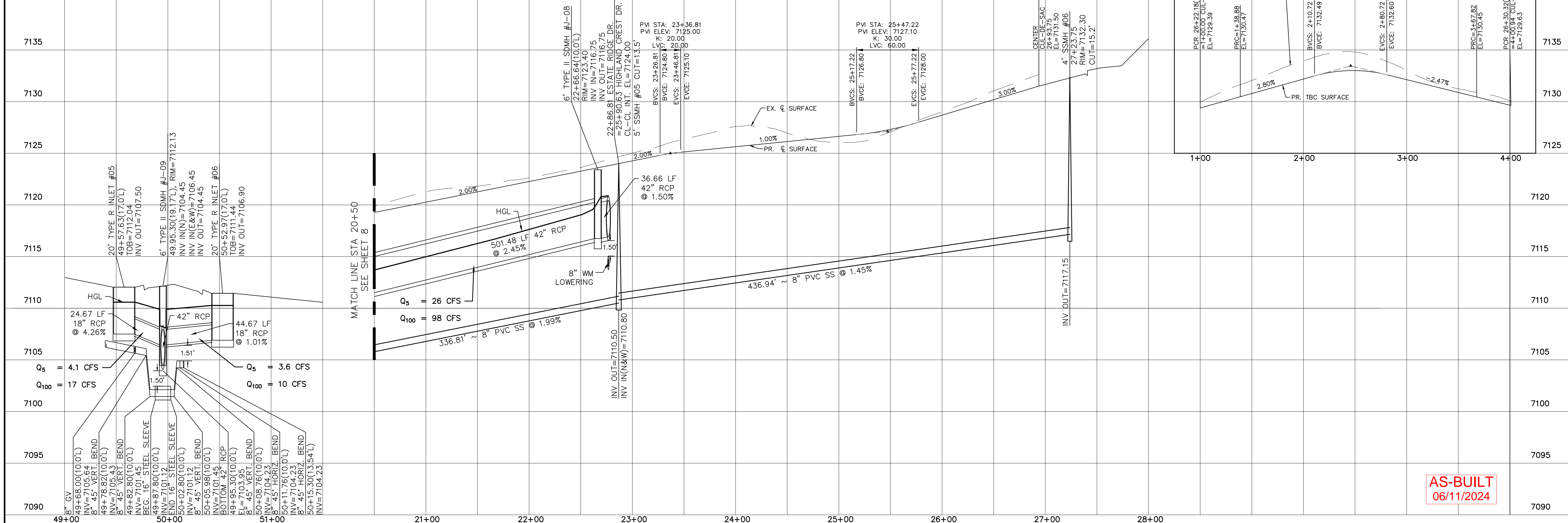
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"
15	38.88'	42.50'	52°25'17"
16	228.93'	47.50'	276°08'49"
17	33.13'	42.50'	44°39'30"

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



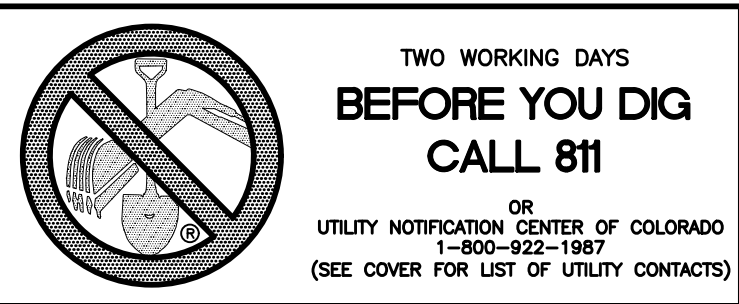
ESTATE RIDGE DR.

URBAN LOCAL TO STA 23+23.81
URBAN LOCAL LOW VOLUME AFTER STA 23+23.81
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

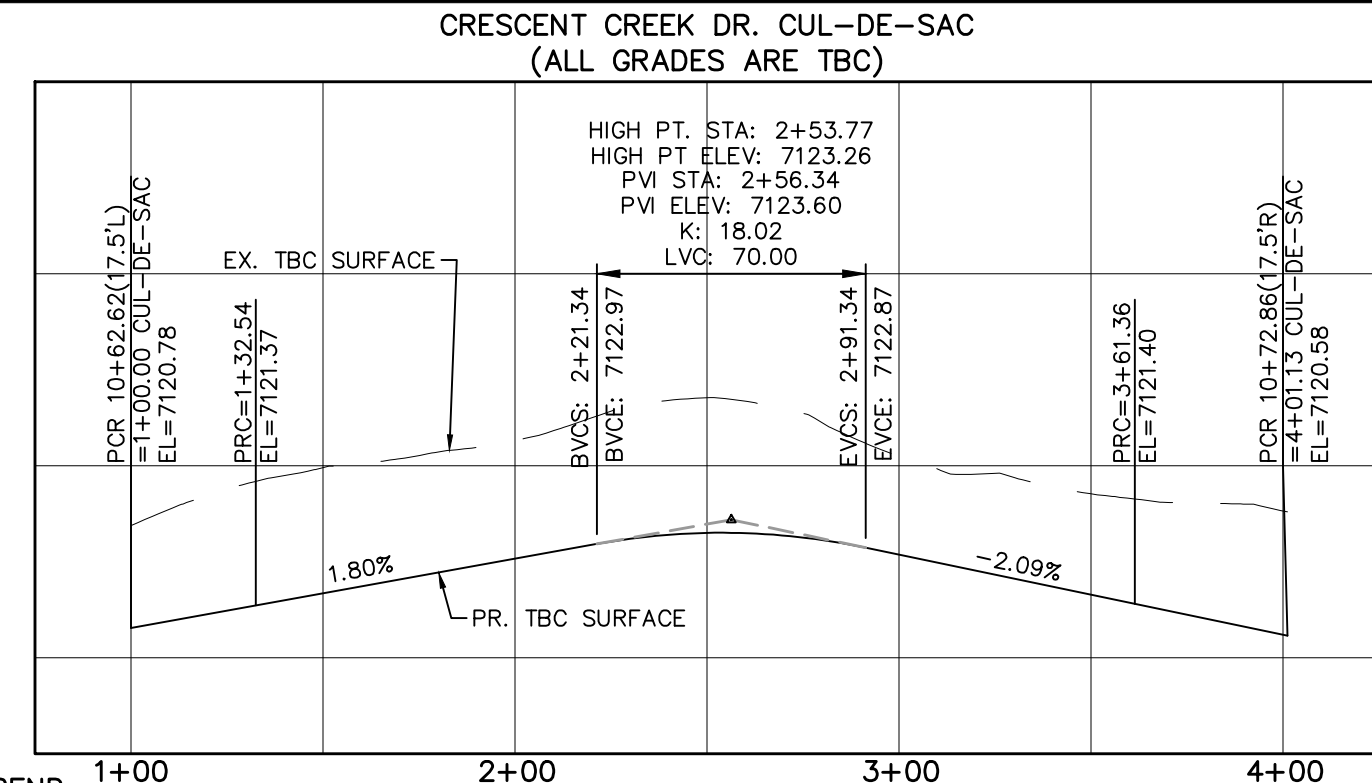
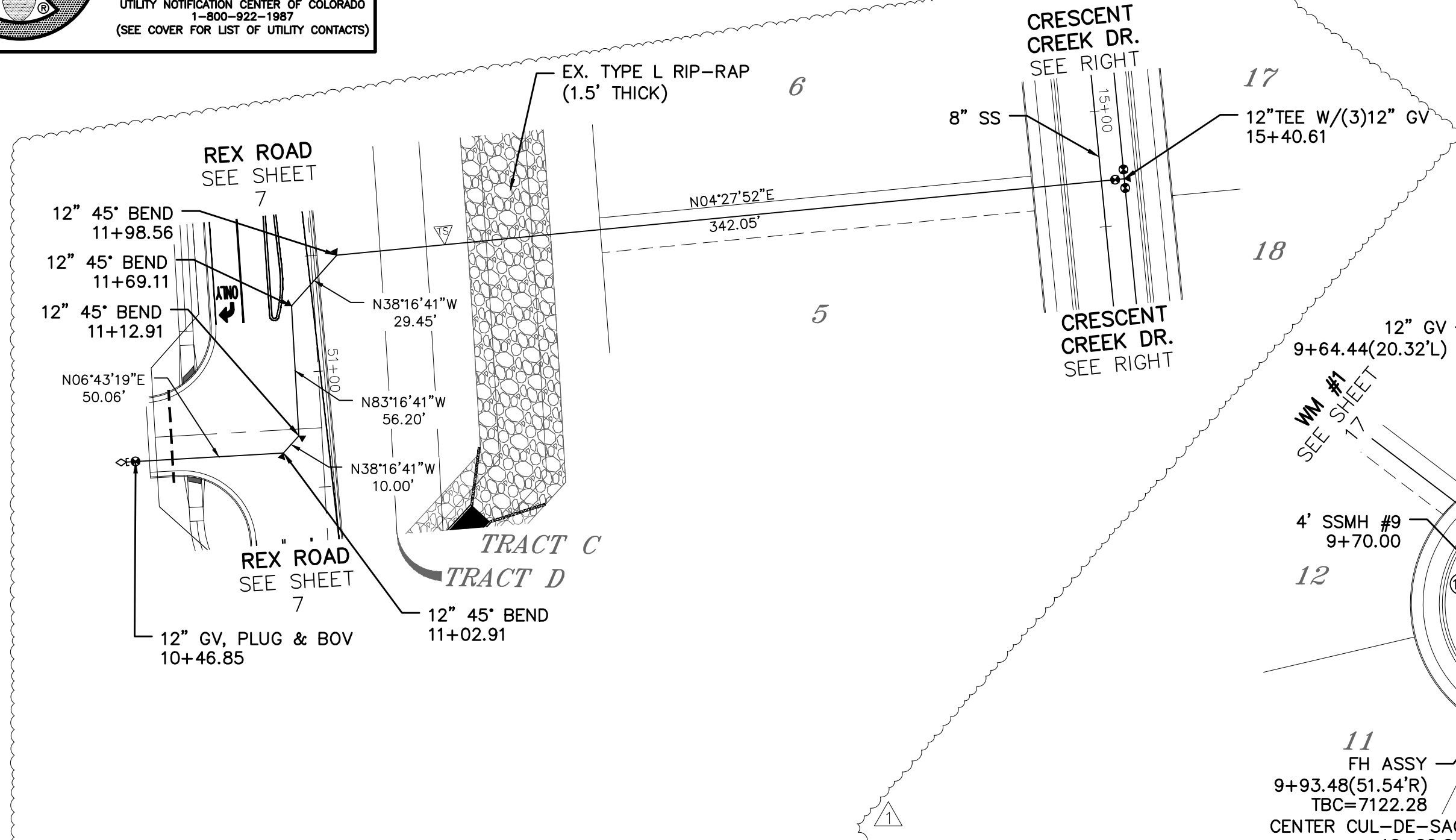


**AS-BUILT
06/11/2024**

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	Log	LOG	TKM	Date	Appr.
	9/15/2021	10/7/2021	06/09/2023		
	1	2	3	No.	Revisions
	Drawn by AS SHOWN		Checked by TKM	Date SEPT 2020	
	Scale AS SHOWN		of 44		

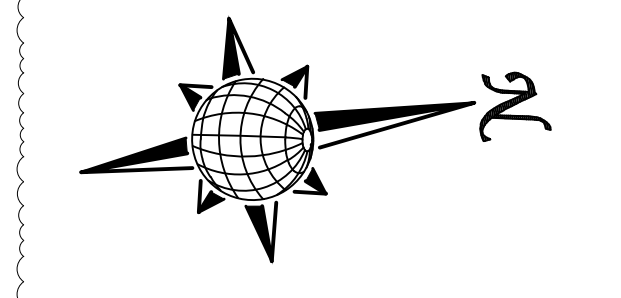
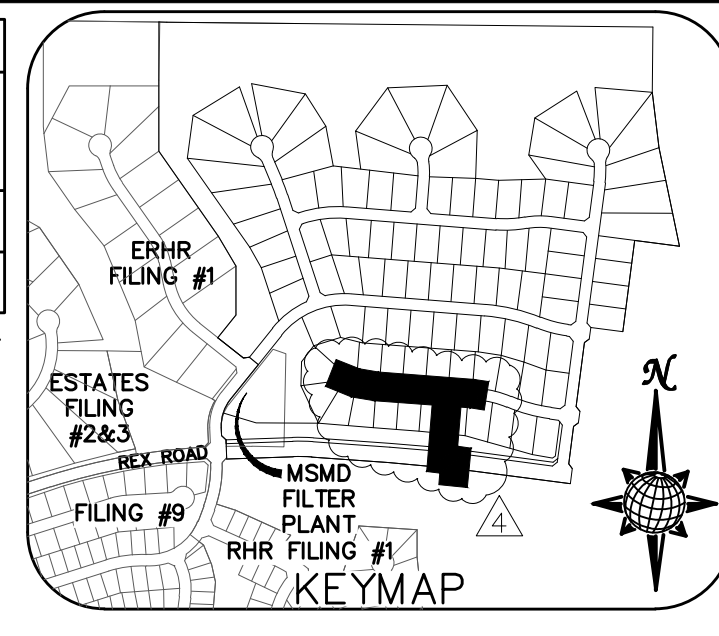


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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

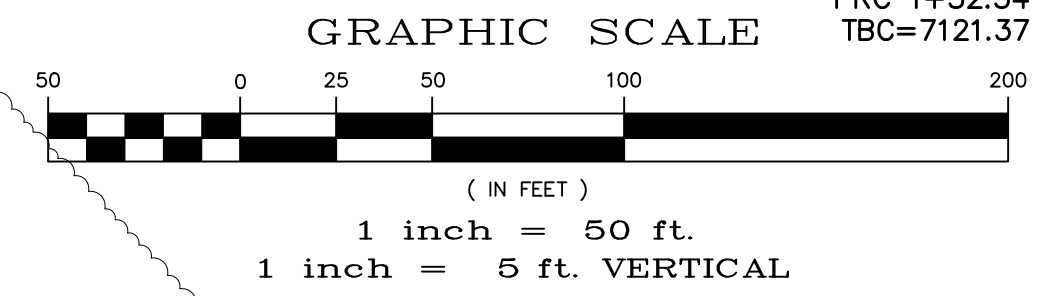


CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
18	32.54'	42.50'	43°51'42"
19	228.82'	47.50'	276°00'52"
20	39.77'	42.50'	53°37'12"

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

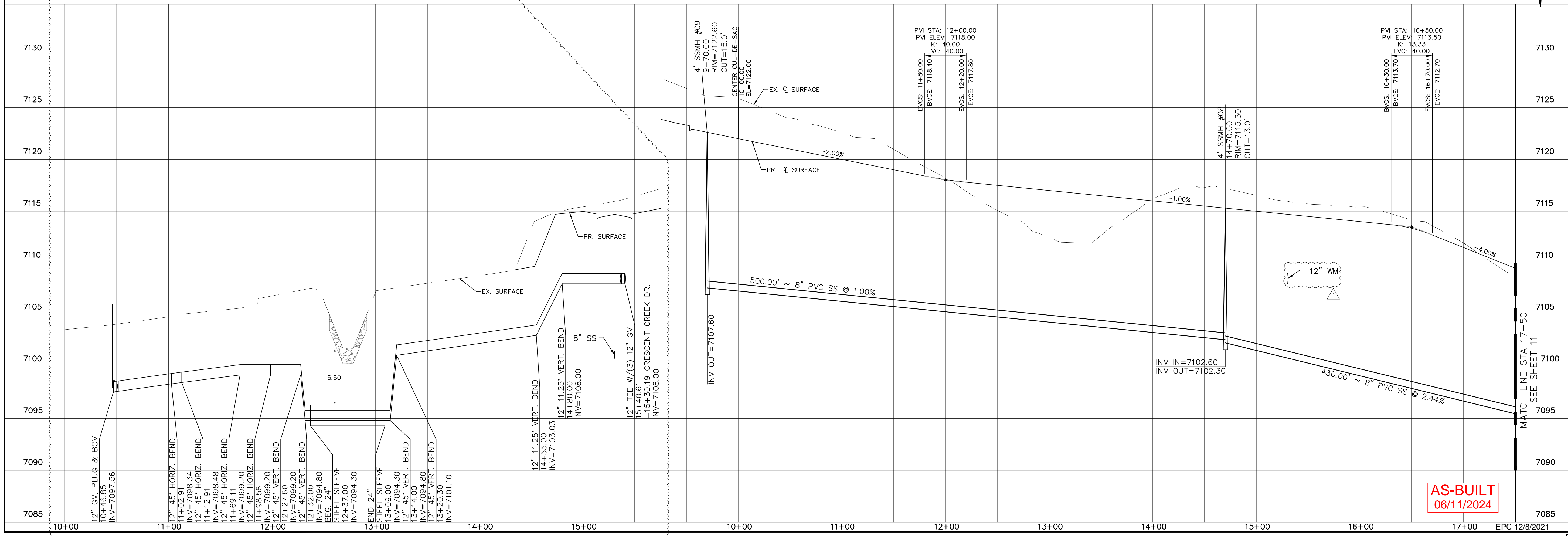
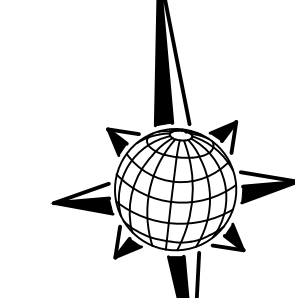


WM #3



CRESCENT CREEK DR.

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



**AS-BUILT
06/11/2024**

Log	9/15/2021	Date	9/15/2021
Log	10/7/2021	Date	10/7/2021
Revisions	No.	Date	Appr.
1			
2			
3			

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

THE ESTATES AT ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
CRESCENT CREEK DR. + WM #3

Drawn by LOG
Checked by TJK
Date SEPT 2020

Scale AS SHOWN
10 of 44

AS-BUILT
06/11/2024

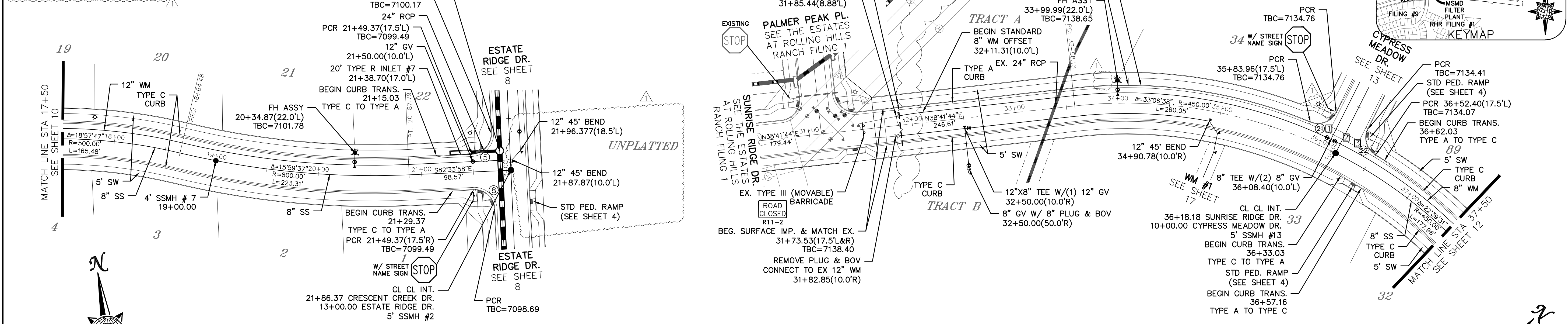
PROFESSIONAL ENGINEER
31429
06-27-2014

CURVE	LENGTH	RADIUS	DELTA
5	30.63'	19.50'	90°00'00"
8	30.63'	19.50'	90°00'00"
21	29.15'	19.50'	85°38'34"
22	29.15'	19.50'	85°38'34"

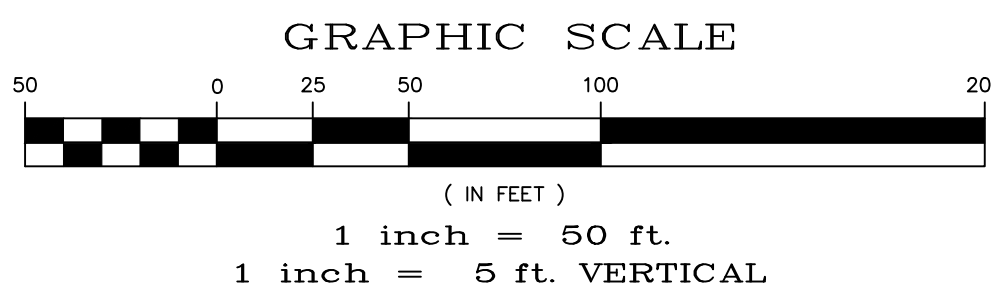
**TWO WORKING DAYS
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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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



CRESCENT CREEK DR.



SUNRISE RIDGE DR.

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

Station	Profile Description	Station	Profile Description
7115	PVI STA: 18+52.92 PVI ELEV: 7105.38 K: 30.00 LVC: 60.00	7115	7145
7110	BVC: 18+22.92 EVC: 18+82.92 SSMH #07 RIM=7104.44 CUT=12.9'	7110	7140
7105	EX. PRES. 12" WM	7105	7135
7100	PR. & EX. SURFACE	7100	7130
7095	EX. GRAVITY 20" WM	7095	7125
7090	EX. TREATED 12" WM	7090	7120
7085	EX. 24" RCP	7085	7115
7080	EX. 24" RCP	7080	7110
7075	EX. 24" RCP	7075	7105
7070	EX. 24" RCP	7070	7100

Log	9/15/2021	Date	9/15/2021
Log	10/7/2021	Date	10/7/2021
Revisions	No.	Date	Appr.
1			
2			
3			

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

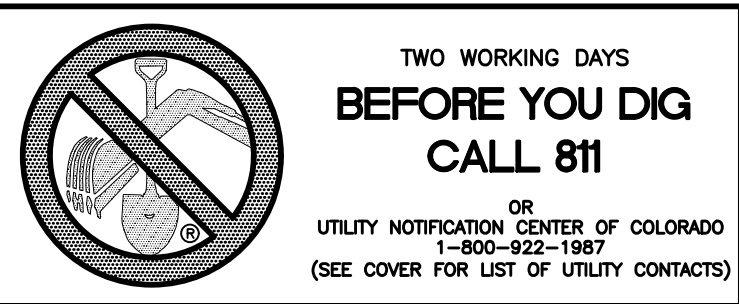
MERIDIAN RANCH

THE ESTATES AT ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
CRESCENT CREEK DR. +
SUNRISE RIDGE DR.

Scale: AS SHOWN 11 of 44

AS-BUILT 06/11/2024

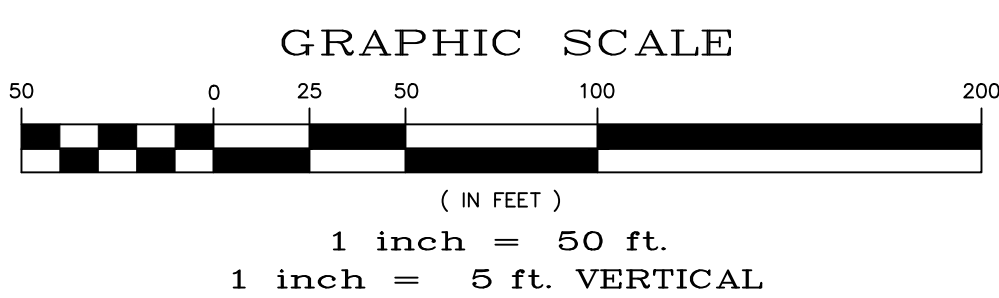
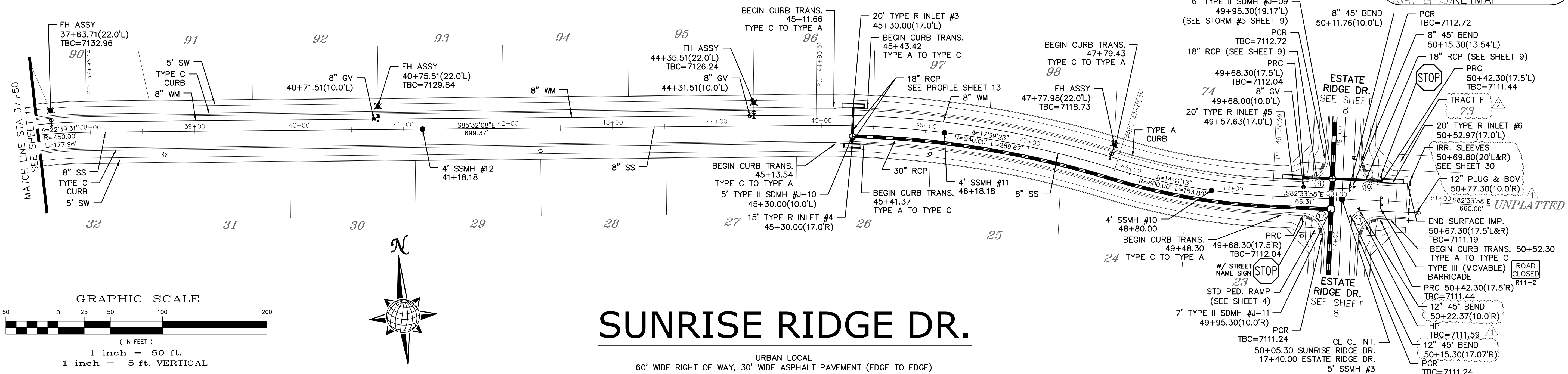
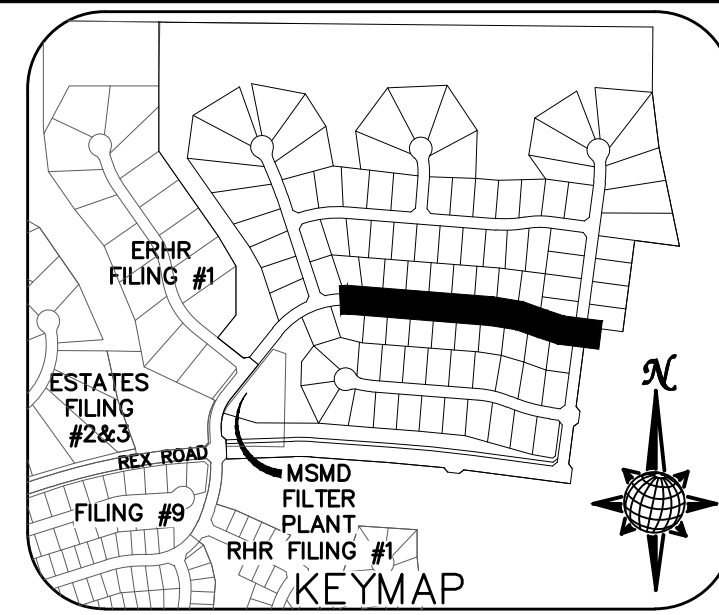
PROFESSIONAL ENGINEER



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

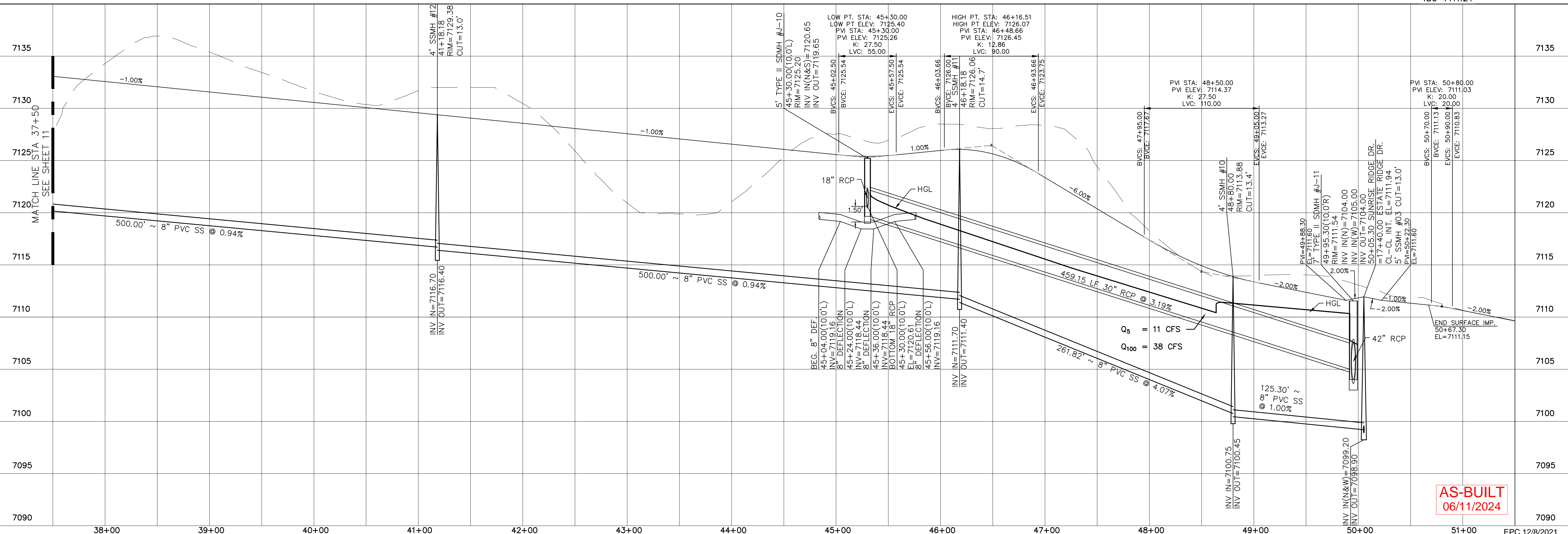
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
9	30.63'	19.50'	90°00'00"
10	30.63'	19.50'	90°00'00"
11	30.63'	19.50'	90°00'00"
12	30.63'	19.50'	90°00'00"

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



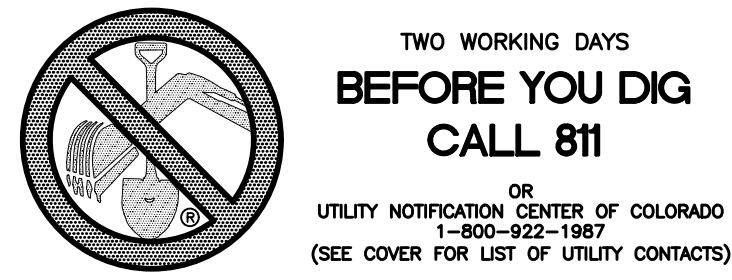
SUNRISE RIDGE DR.

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



AS-BUILT
06/11/2024

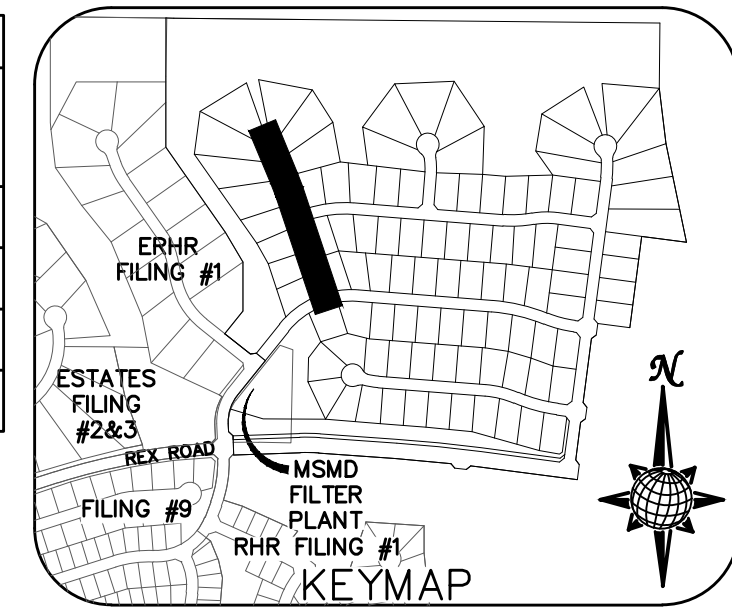
Log	9/15/2021	Date	9/15/2021
Log	10/7/2021	Date	10/7/2021
Revisions	No.	Date	Appr.
TECH CONTRACTORS DRIVE 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SUNRISE RIDGE DR.			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	SEPT 2020
	12	of	44



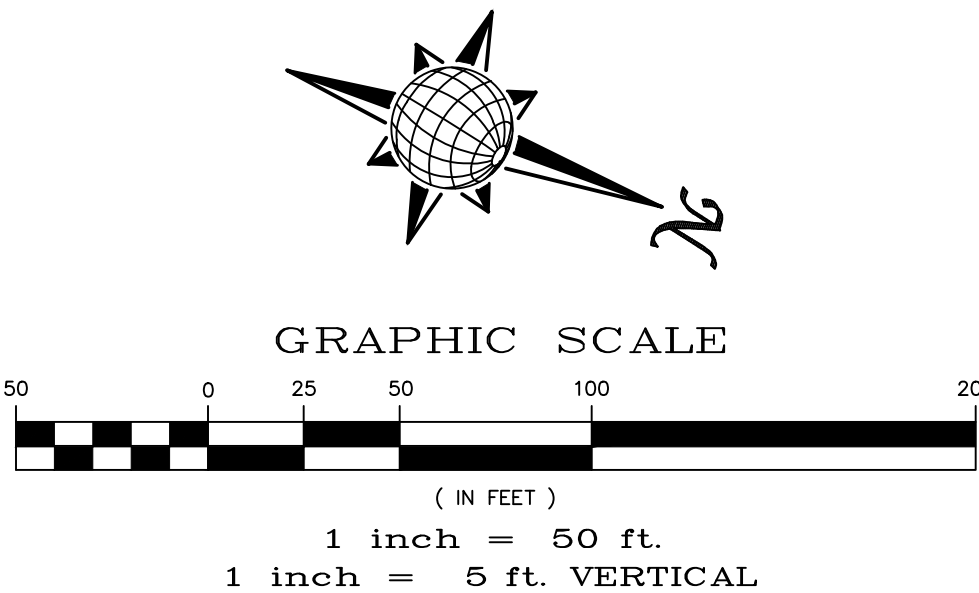
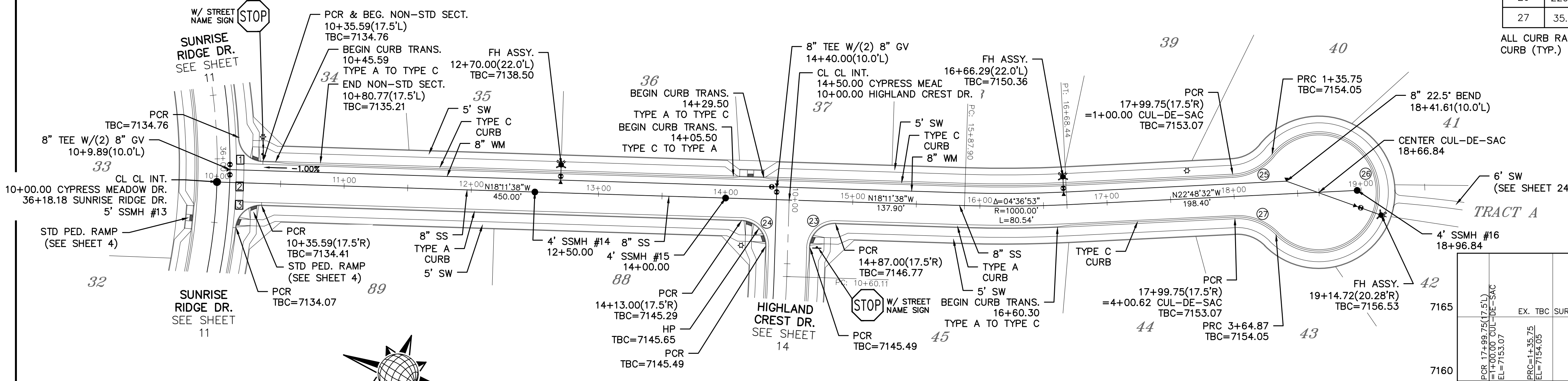
INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

1 = 7134.08
2 = 7133.91
3 = 7133.75

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
23	30.63'	19.50'	90°00'00"
24	30.63'	19.50'	90°00'00"
25	35.75'	42.50'	48°11'23"
26	229.13'	47.50'	276°22'46"
27	35.75'	42.50'	48°11'23"

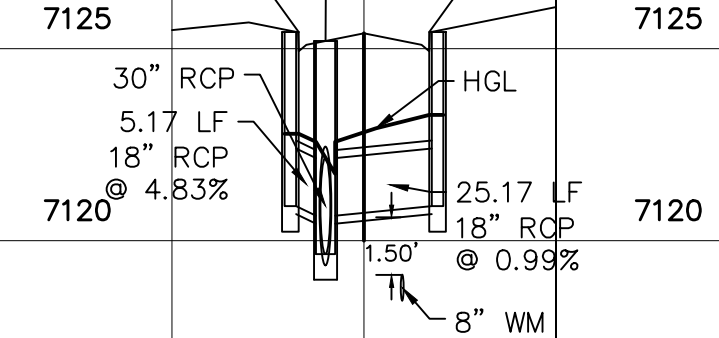
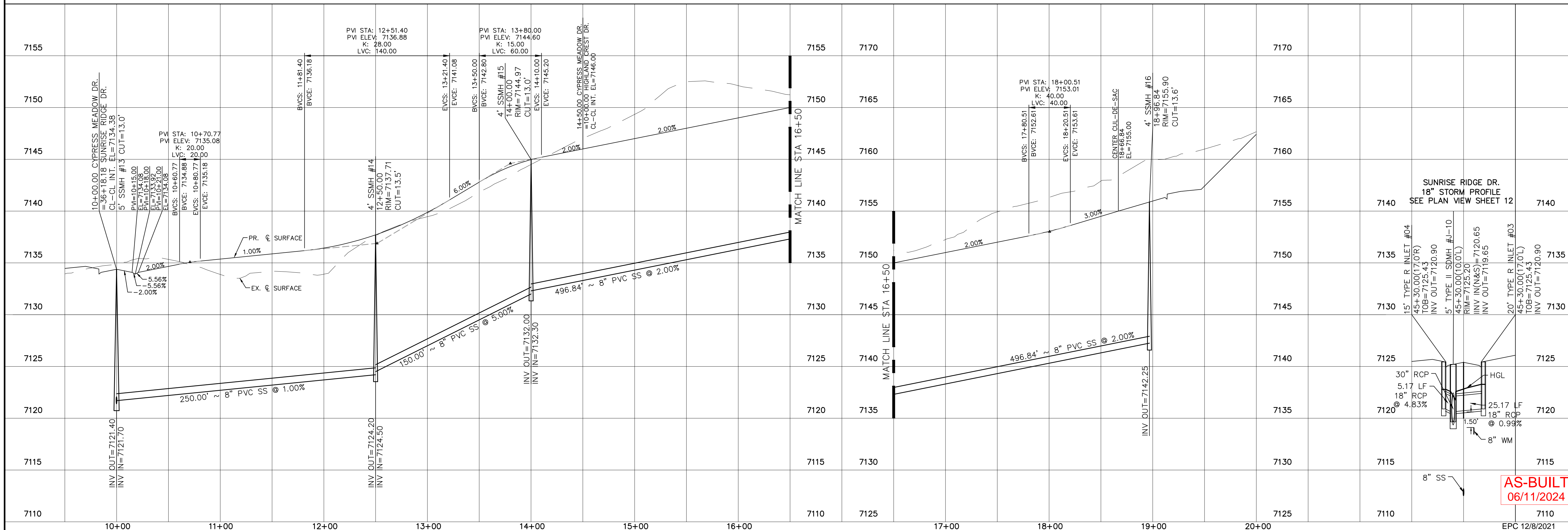
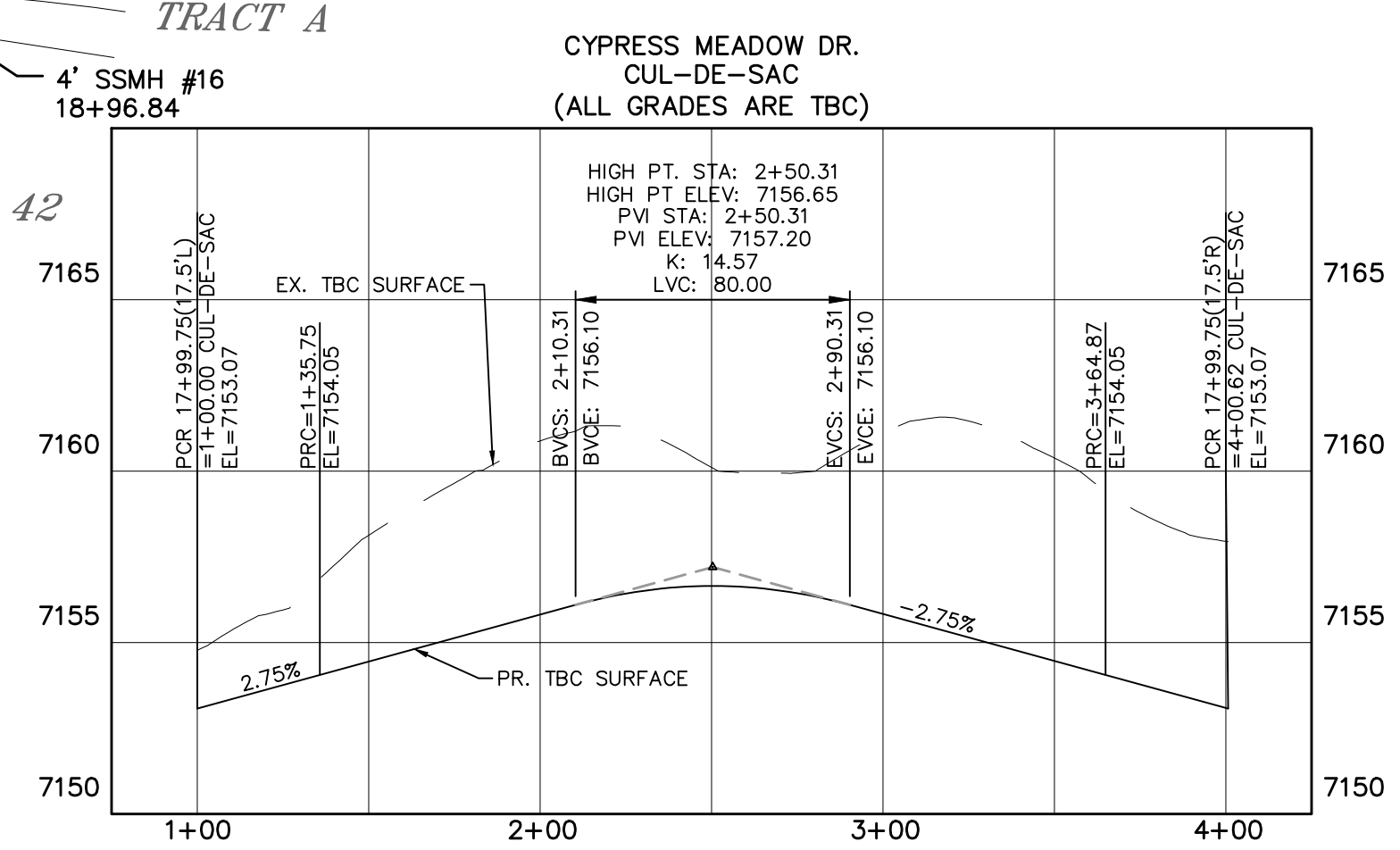


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



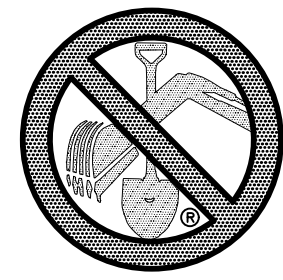
CYPRESS MEADOW DR.

URBAN LOCAL TO STA 14+87.00
URBAN LOCAL LOW VOLUME AFTER STA 14+87.00
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



AS-BUILT
06/11/2024

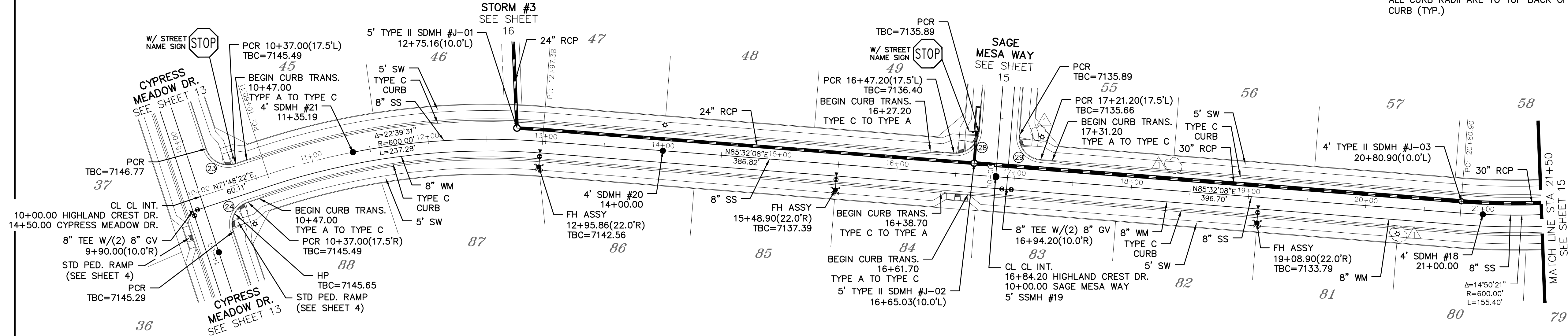
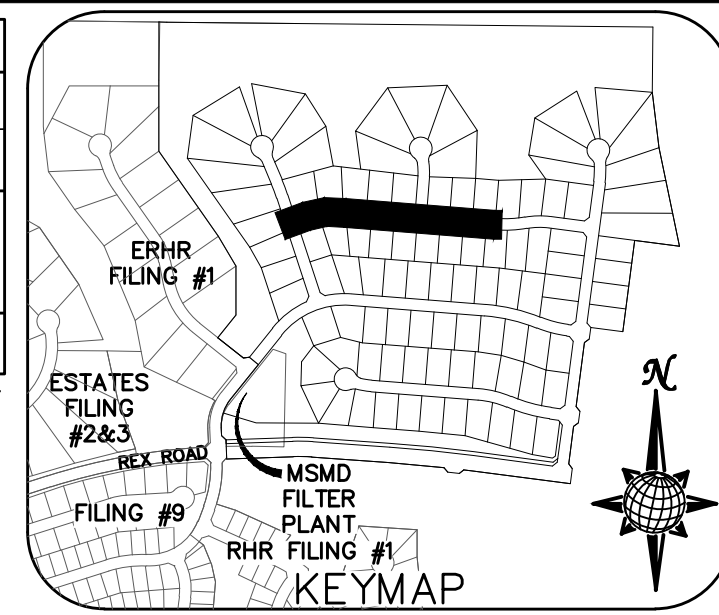
Log	9/15/2021	Log	10/7/2021	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS CYPRESS MEADOW DR.					
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020
Scale	AS SHOWN	13	of	44	



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

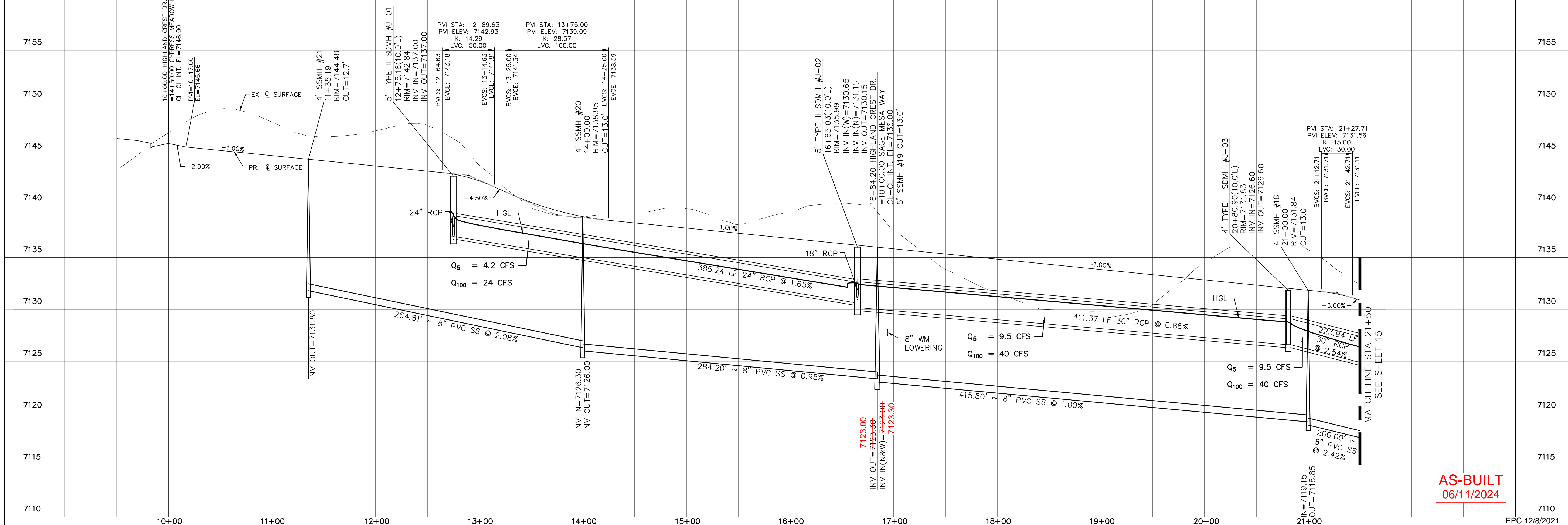
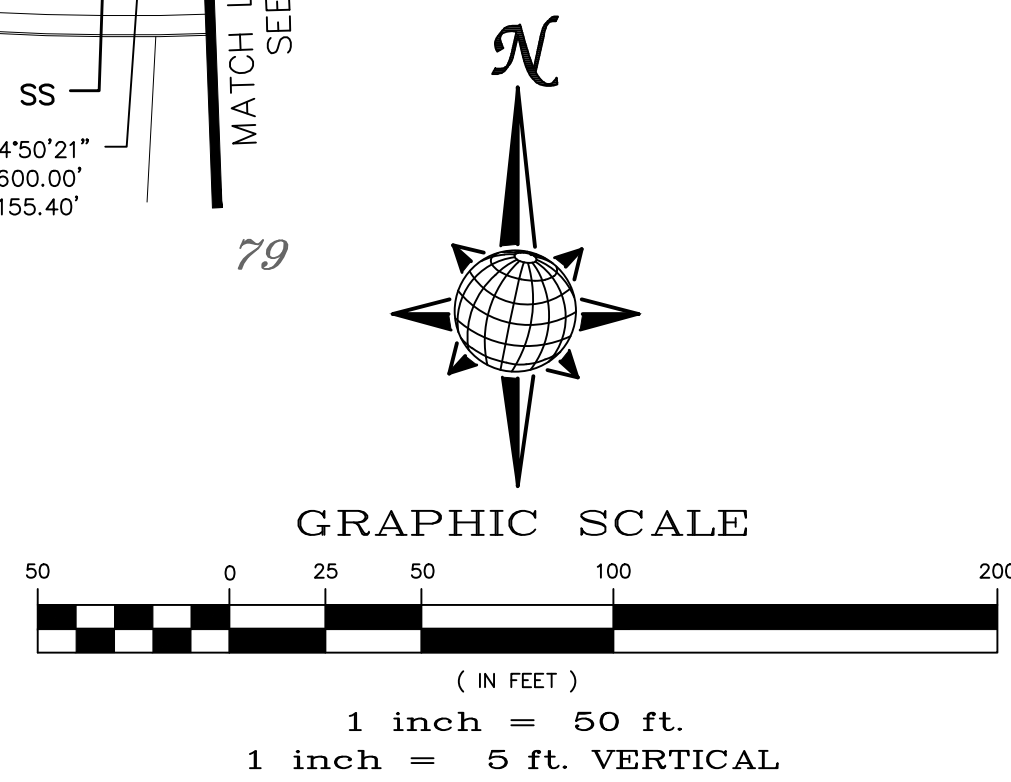
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
23	30.63'	19.50'	90°00'00"
24	30.63'	19.50'	90°00'00"
28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"

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



HIGHLAND CREST DR.

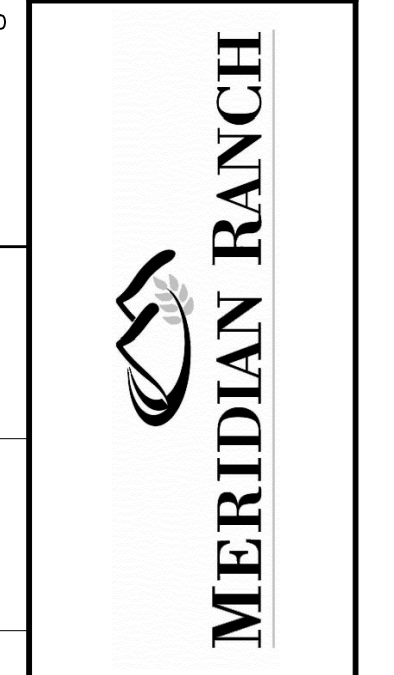
URBAN LOCAL
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



AS-BUILT
06/11/2024

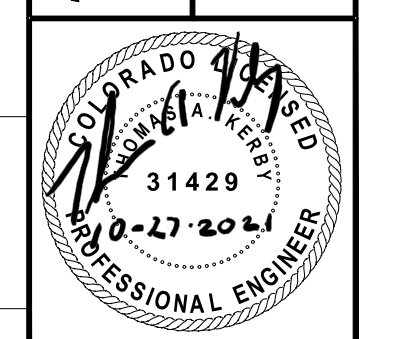
Log	Date	Appr.
9/15/2021		
10/7/2021		

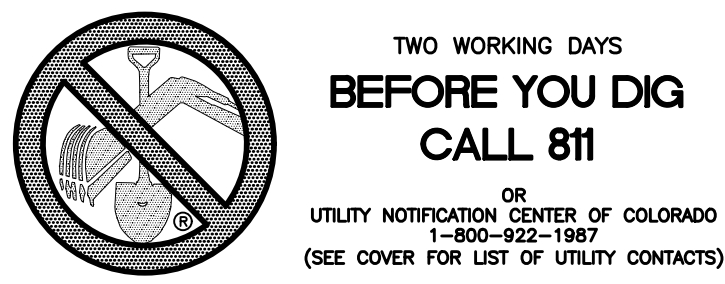
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
HIGHLAND CREST DR.

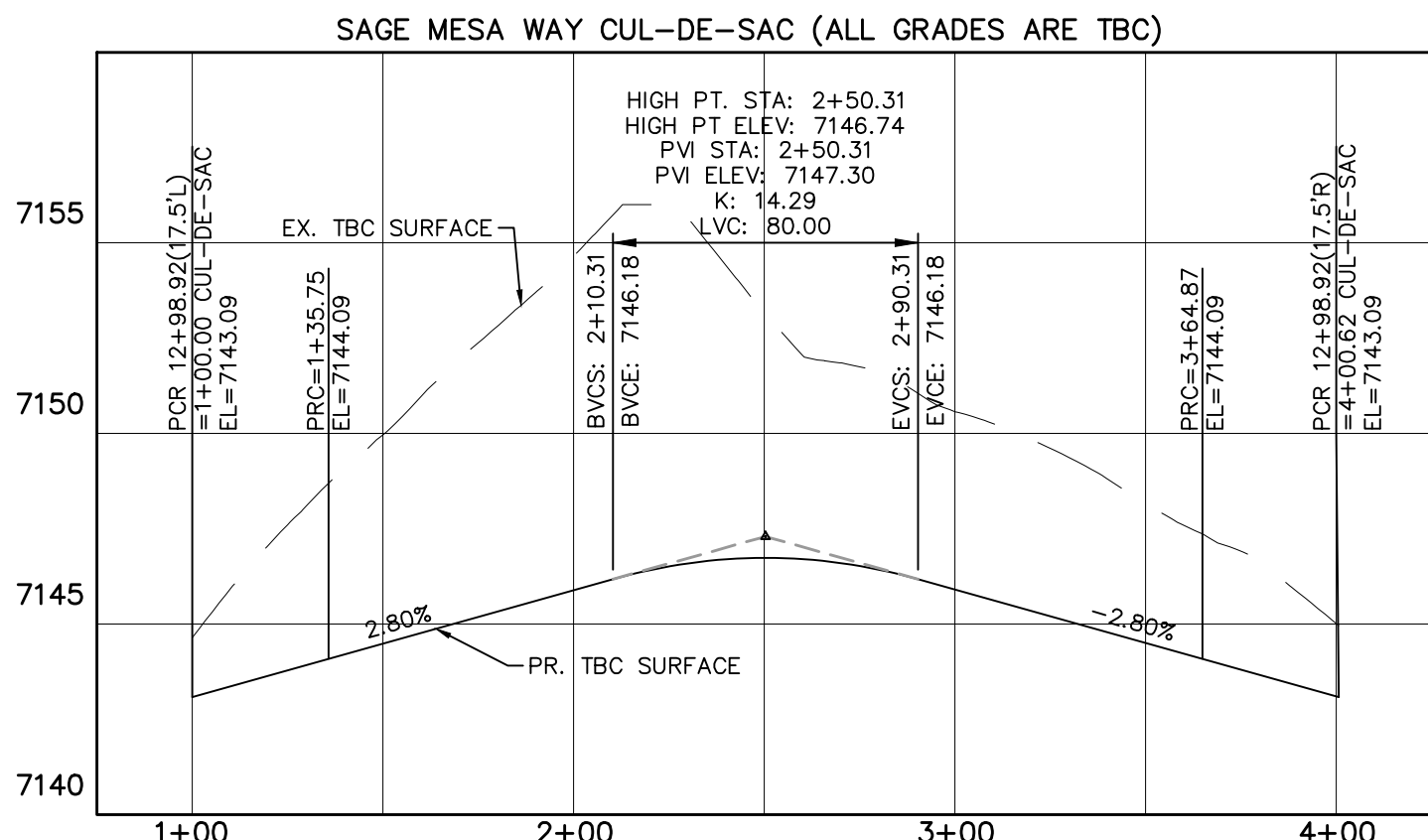
Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	SEPT 2020
14 of 44			





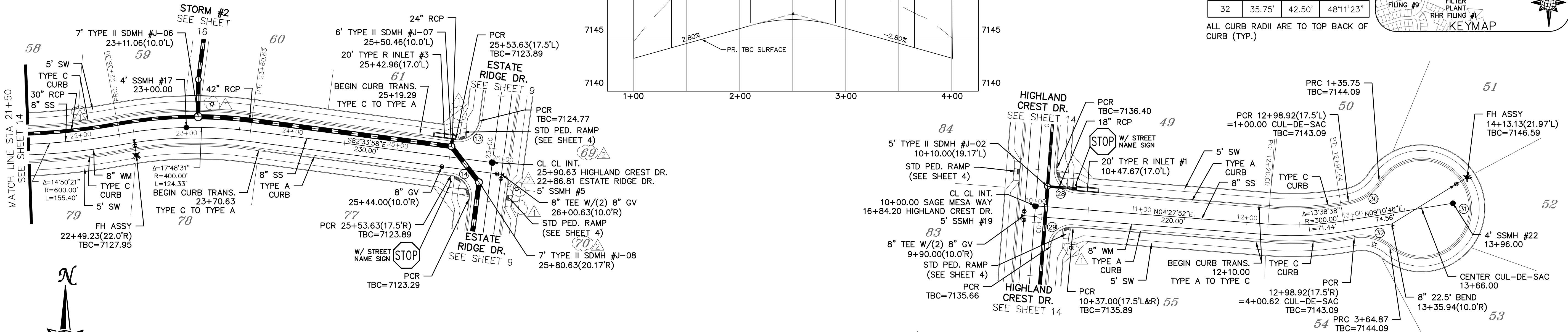
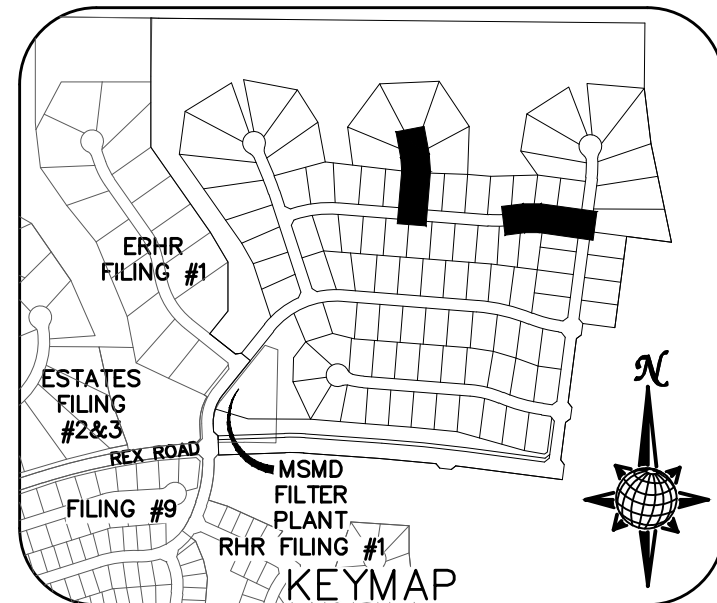
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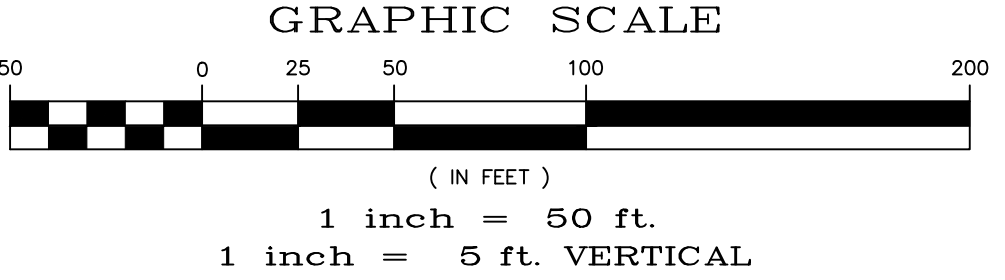
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"
28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	35.75'	42.50'	48°11'23"
31	229.13'	47.50'	276°22'46"
32	35.75'	42.50'	48°11'23"

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



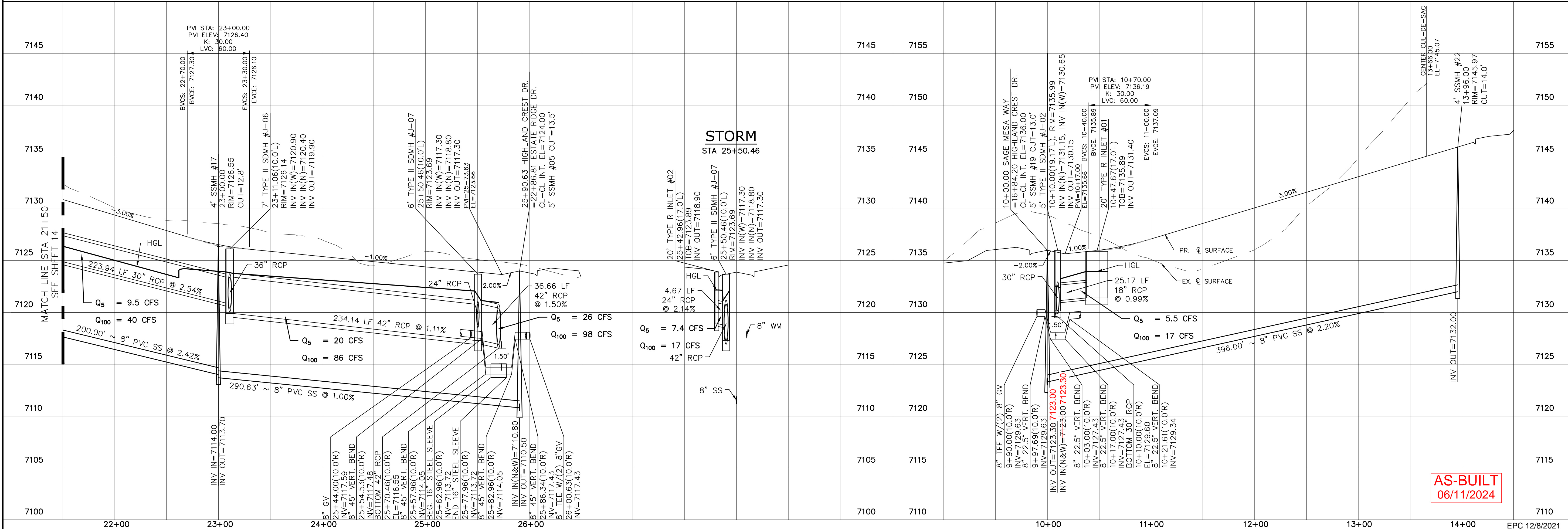
HIGHLAND CREST DR.

SAGE MESA WAY



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

URBAN LOCAL LOW VOLUME
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



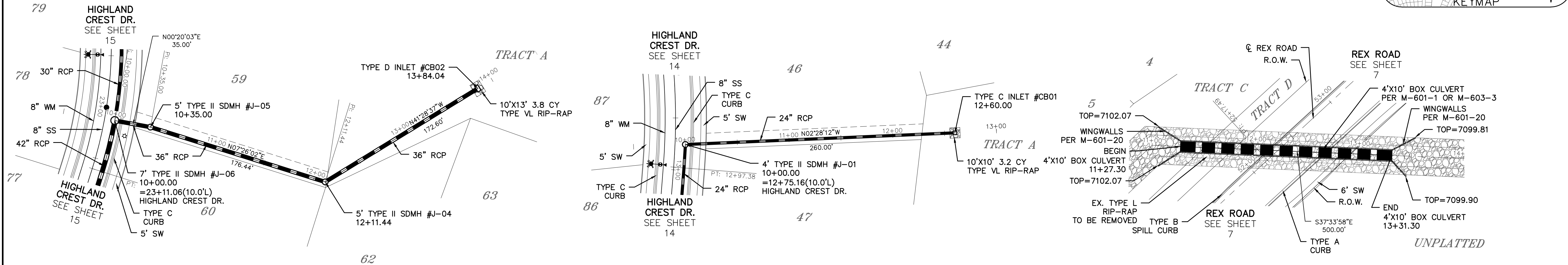
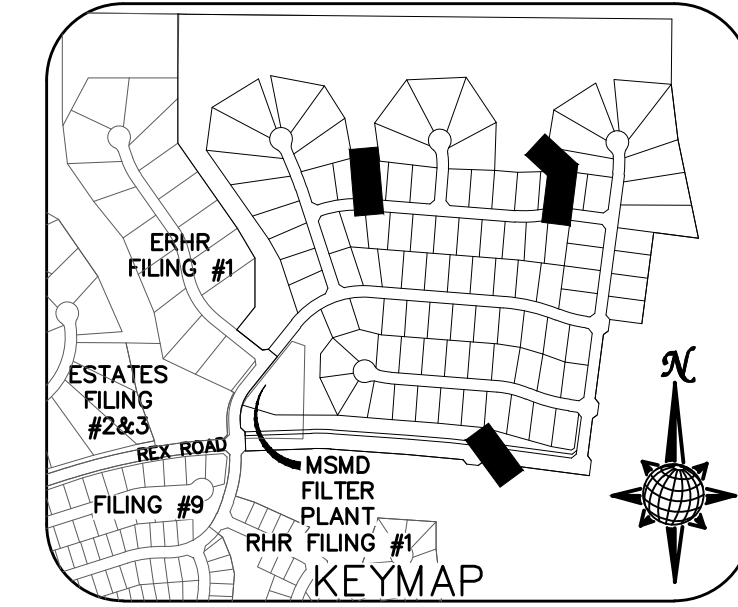
STORM
STA 25+50.46

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06/11/2024

Log	9/15/2021	10/7/2021	Date	Appr.
No.	1	2	3	Revisions
TECH CONTRACTORS DRIVE 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS HIGHLAND CREST DR. + SAGE MESA WAY				
Scale	AS SHOWN	15 of 44	Date	SEPT 2020
Drawn by	LOG	Checked by	TAK	



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STORM #2

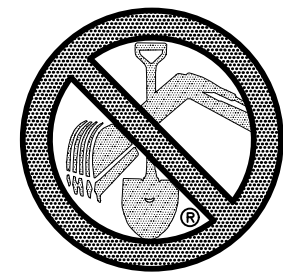
STORM #3

STORM #4

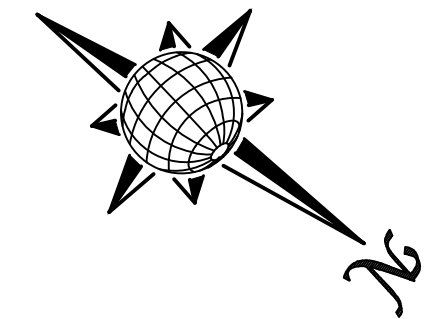
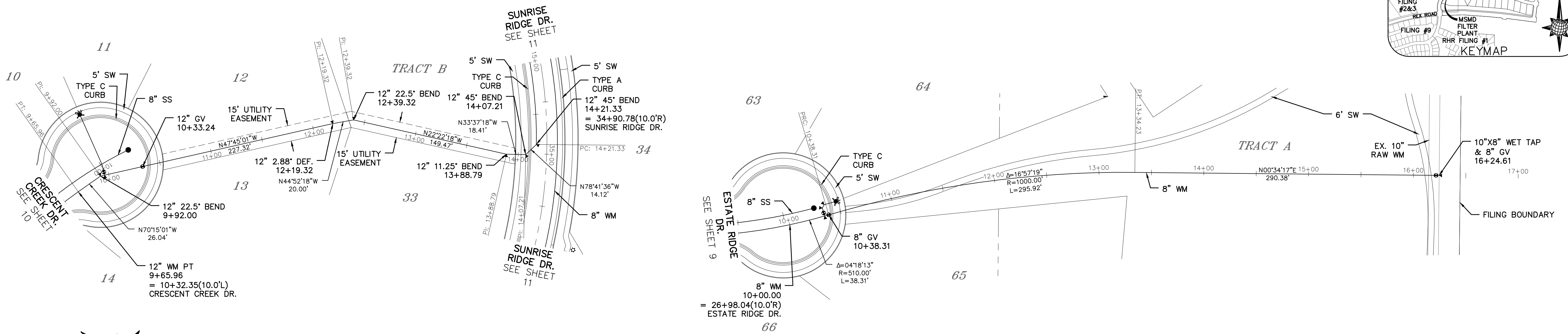
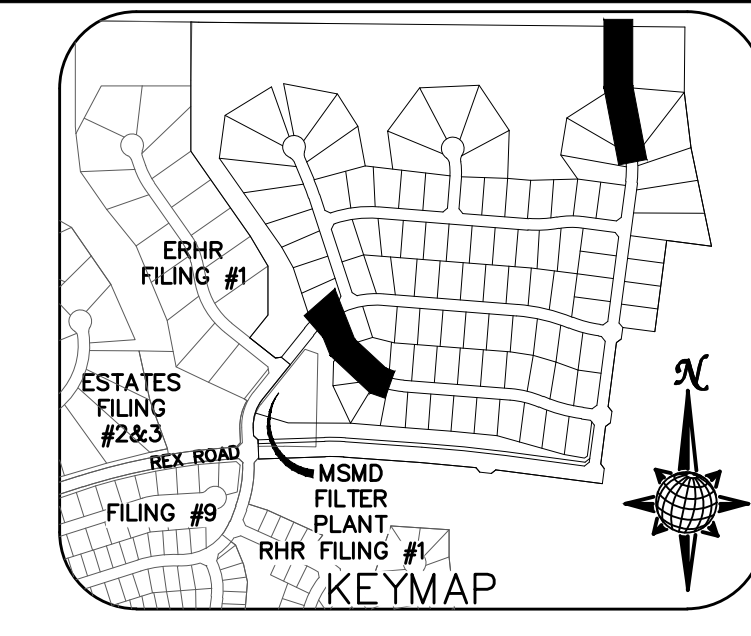
Station	Storm #2	Storm #3	Storm #4
7155			
7150			
7145			
7140			
7135			
7130			
7125			
7120			
7115			
7110			

Log	Date	Appr.
9/13/2021	10/7/2021	
1	2	3
No. Revisions		
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
MERIDIAN RANCH		
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS STORM #2, STORM #3 + STORM #4		
Drawn by LOG	Checked by TKM	Date SEPT 2020
Scale AS SHOWN	16 of 44	

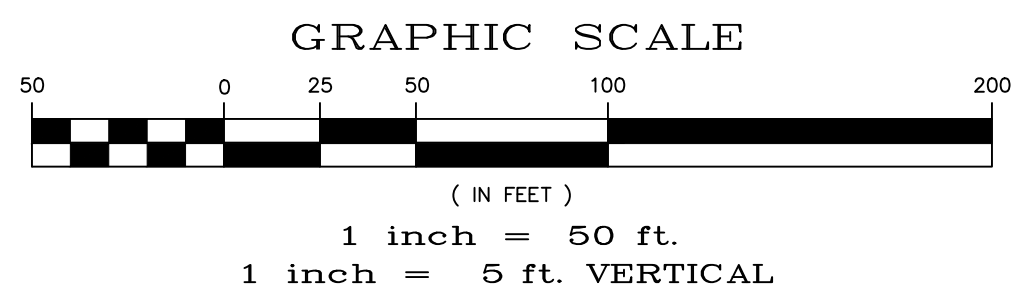
AS-BUILT
06/11/2024



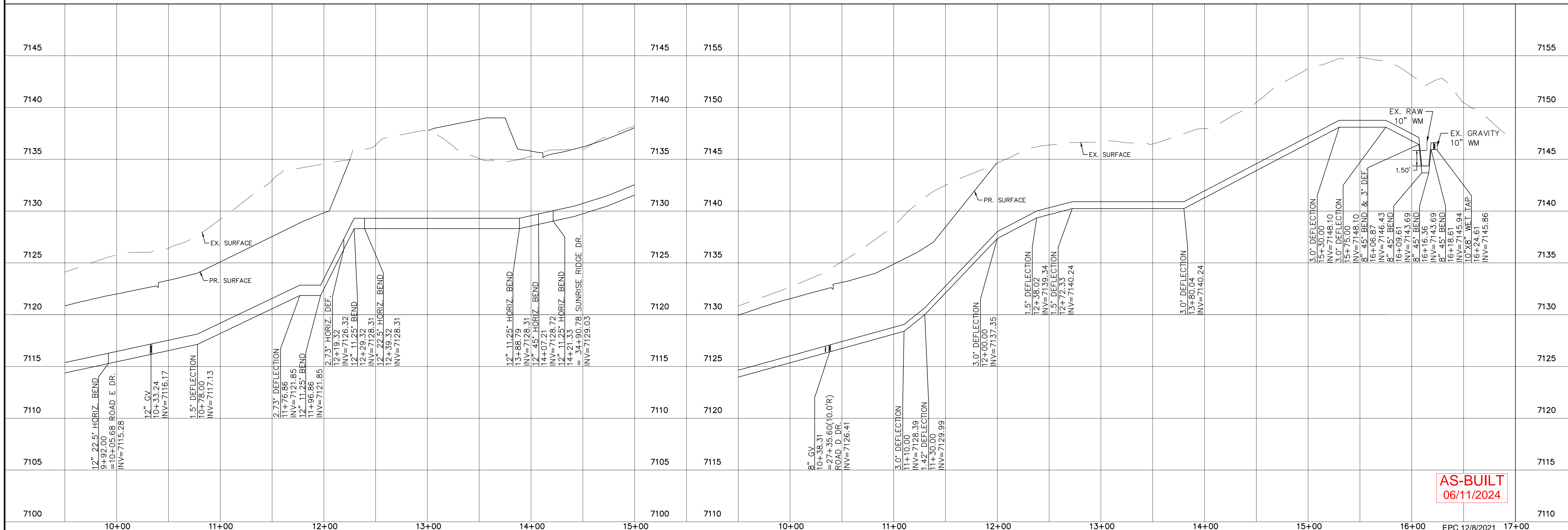
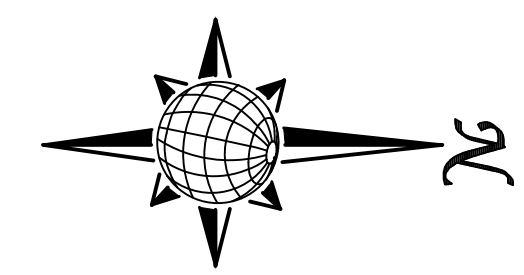
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WM #1

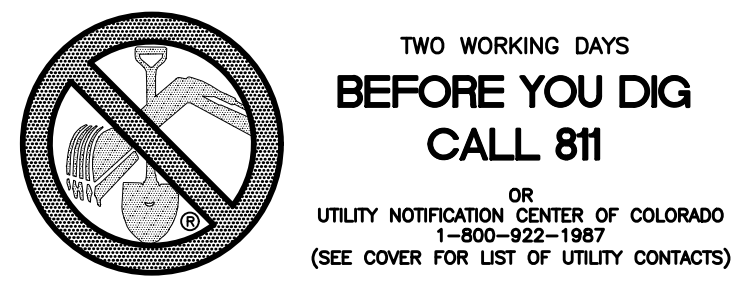


WM #2

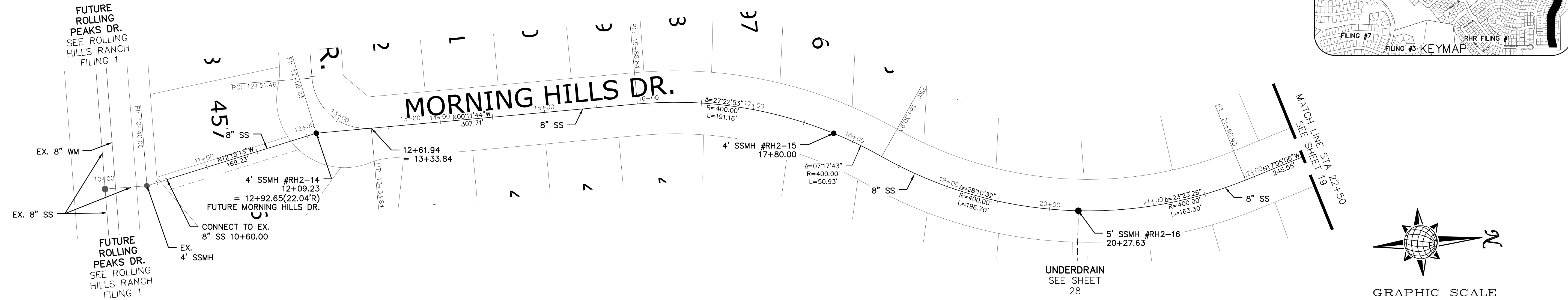
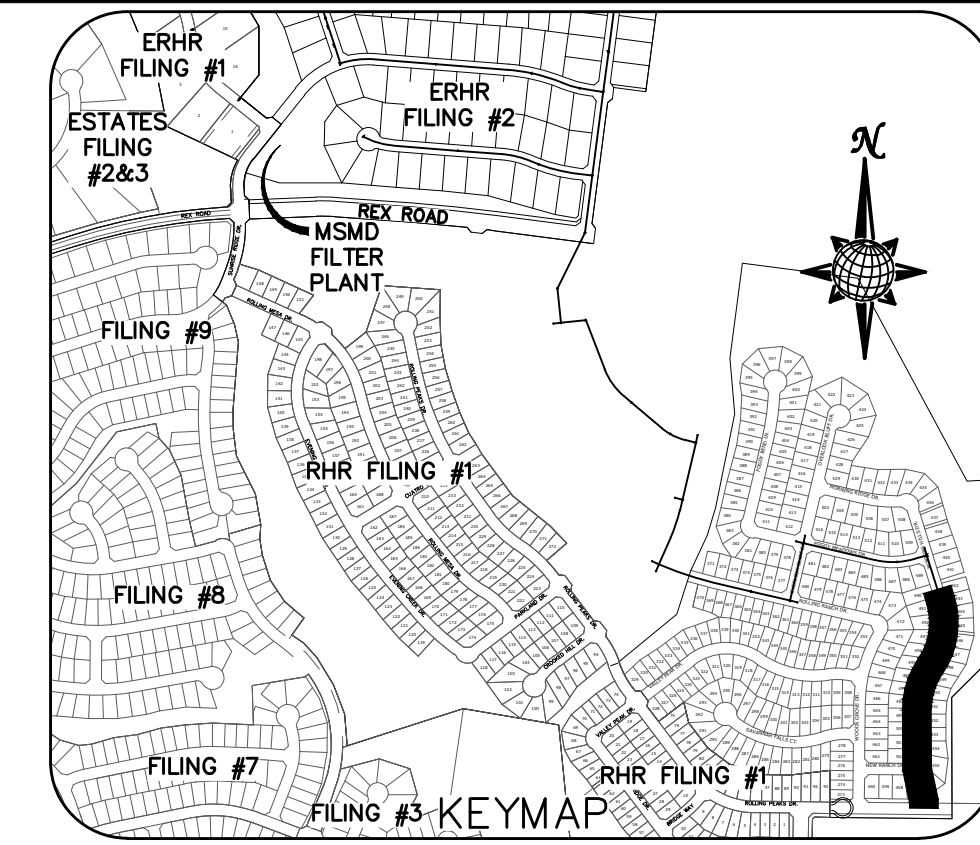


**AS-BUILT
06/11/2024**

<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>No.</th> <th>Date</th> <th>Revised</th> </tr> <tr> <td>1</td> <td>9/15/2021</td> <td>LOG</td> </tr> <tr> <td>2</td> <td>10/7/2021</td> <td>LOG</td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> </table>		No.	Date	Revised	1	9/15/2021	LOG	2	10/7/2021	LOG	3		
No.	Date	Revised													
1	9/15/2021	LOG													
2	10/7/2021	LOG													
3															
<p>MERIDIAN RANCH</p>		<p>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS WM #1 + WM #2</p>													
<p>Scale AS SHOWN</p>	<p>Drawn by LOG</p>	<p>Checked by TAK</p>	<p>Date SEPT 2020</p>												
<p>17 of 44</p>	<p>AS-BUILT 06/11/2024</p>														
<p>PROFESSIONAL ENGINEER 31429 0-27-2021</p>															

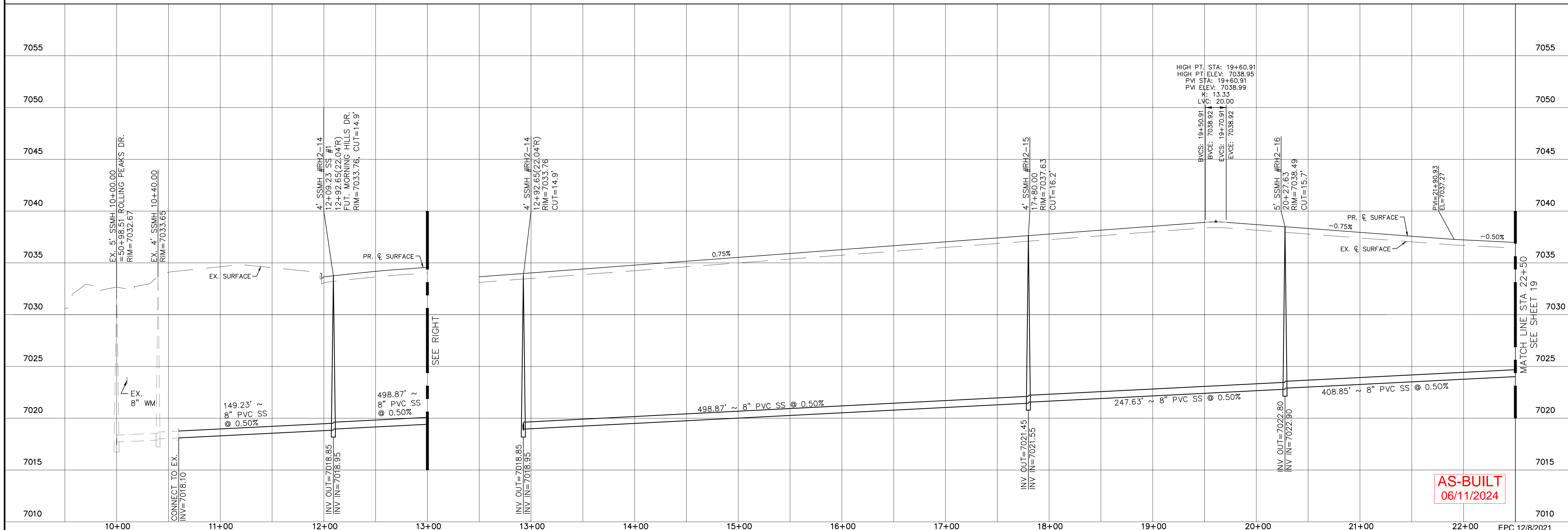
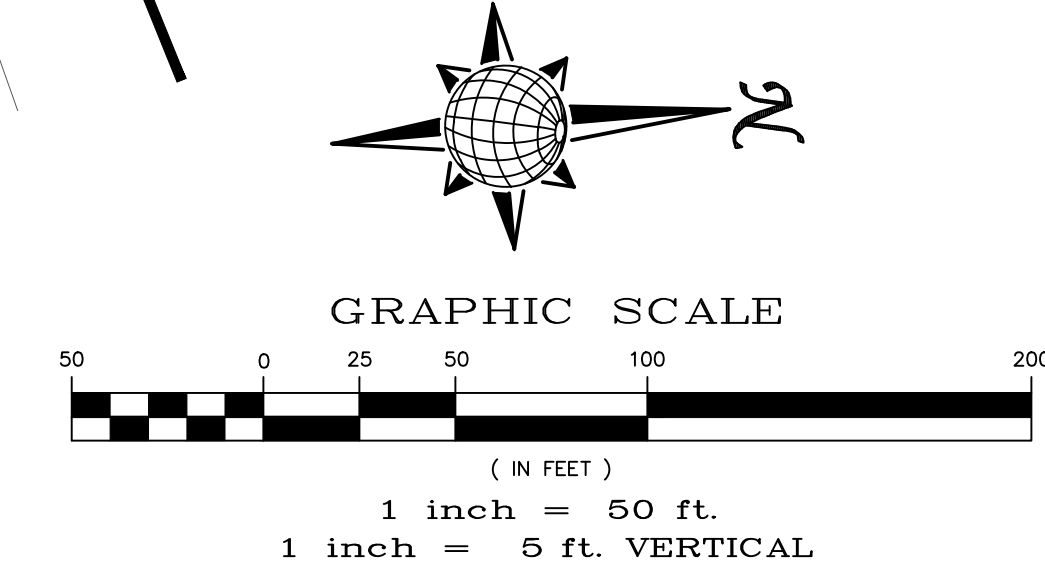


NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.



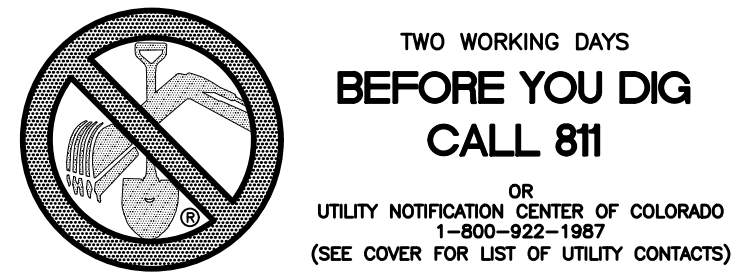
SS #1

FUT. MORNING HILLS DR.

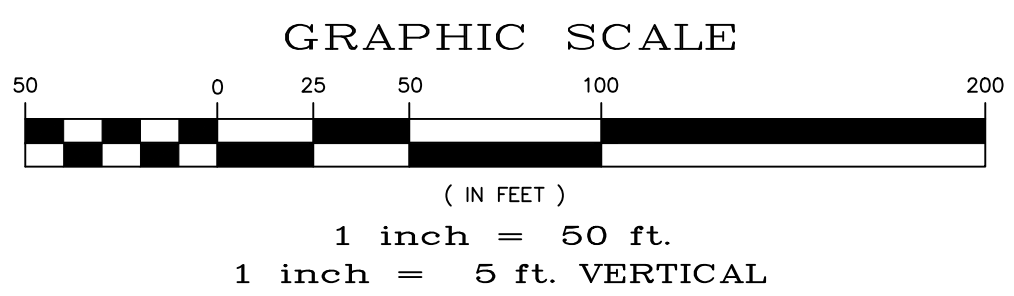
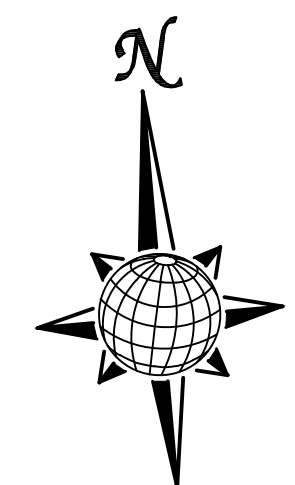
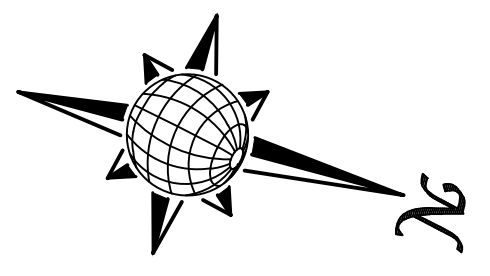
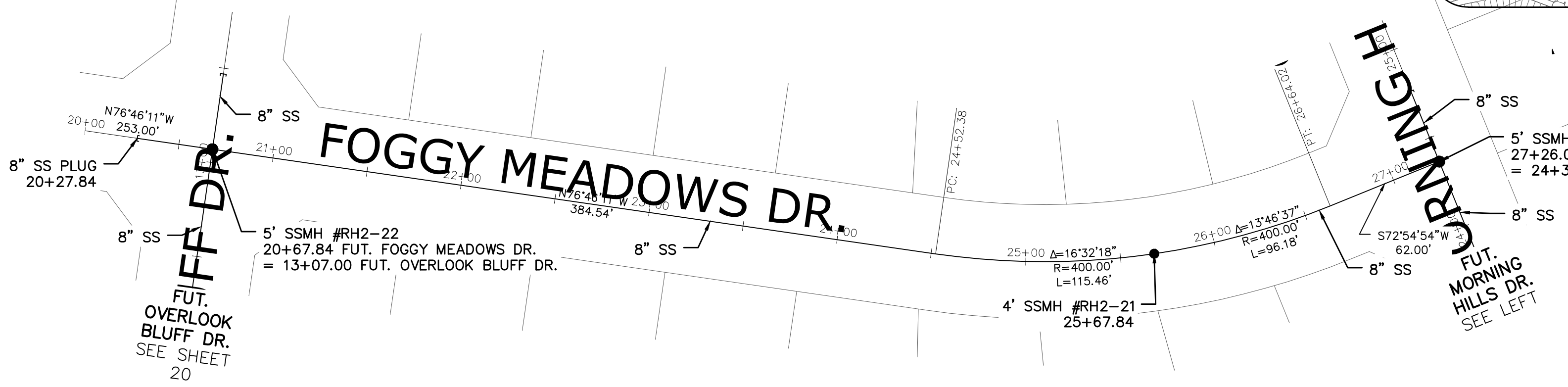
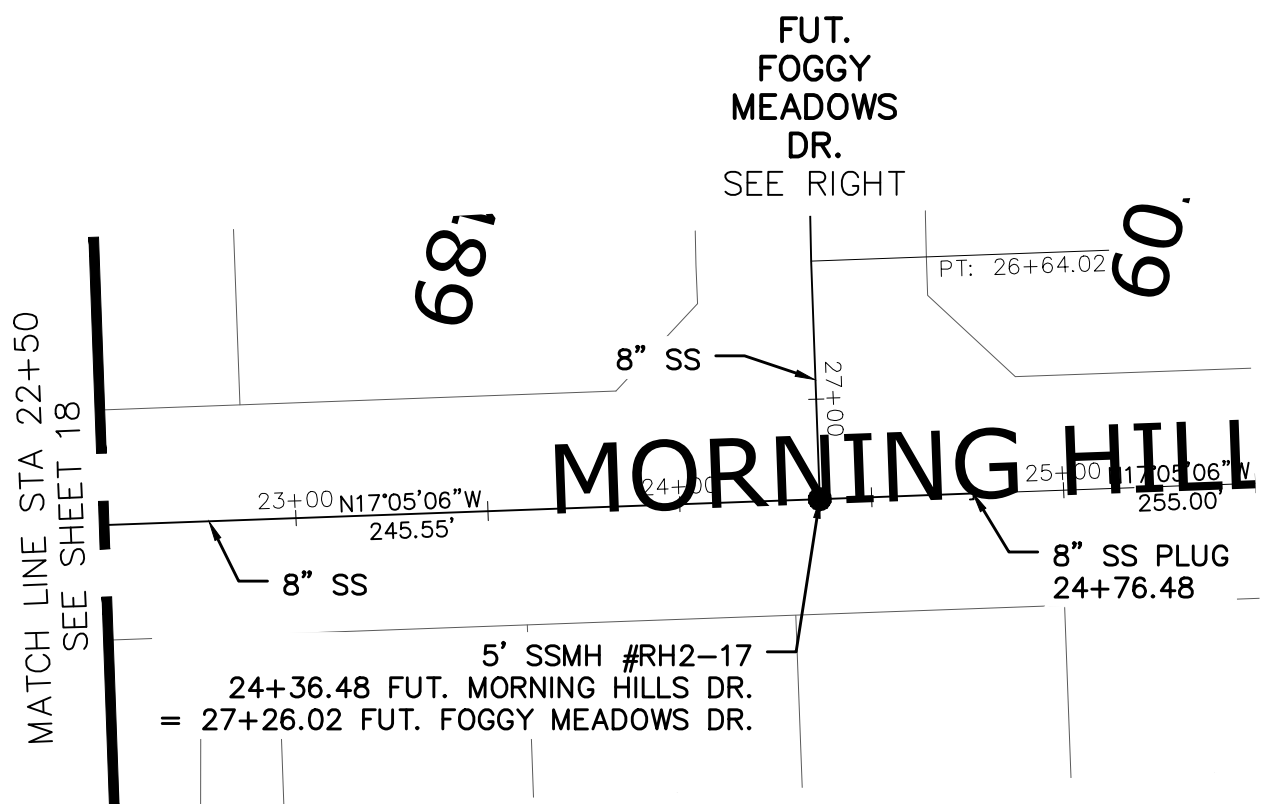
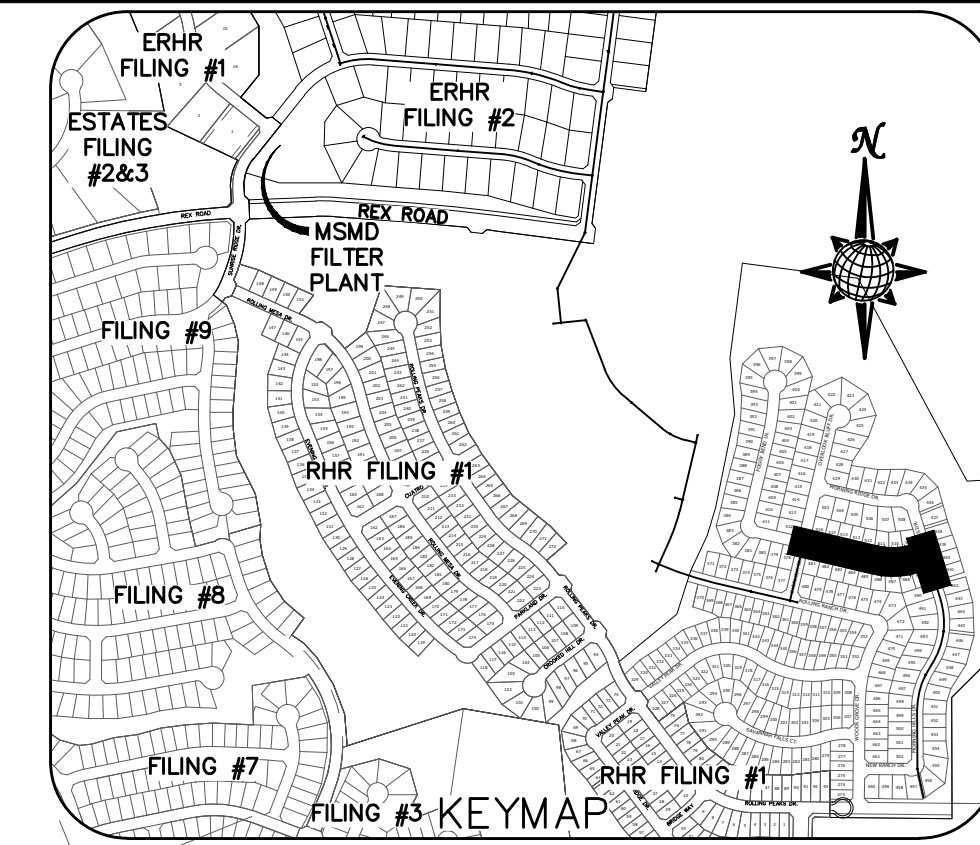


AS-BUILT
06/11/2024

Log		Date		Appr.	
1	9/15/2021	1	10/7/2021		
LIGHT POLES SS SERVENIES WATER SERVICES REX ROAD & 12 TH WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)					
REUSE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F					
Revisions					
No.	Description		Date	Appr.	
1	TECH CONTRACTORS				
2	11886 STAPLETON DRIVE				
3	FALCON, CO 80831				
	TELEPHONE: 719.495.7444				
	FAX: 719.495.2457				
MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SS #1 + FUT. MORNING HILLS DR.					
Scale	AS SHOWN	18	of	44	
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020

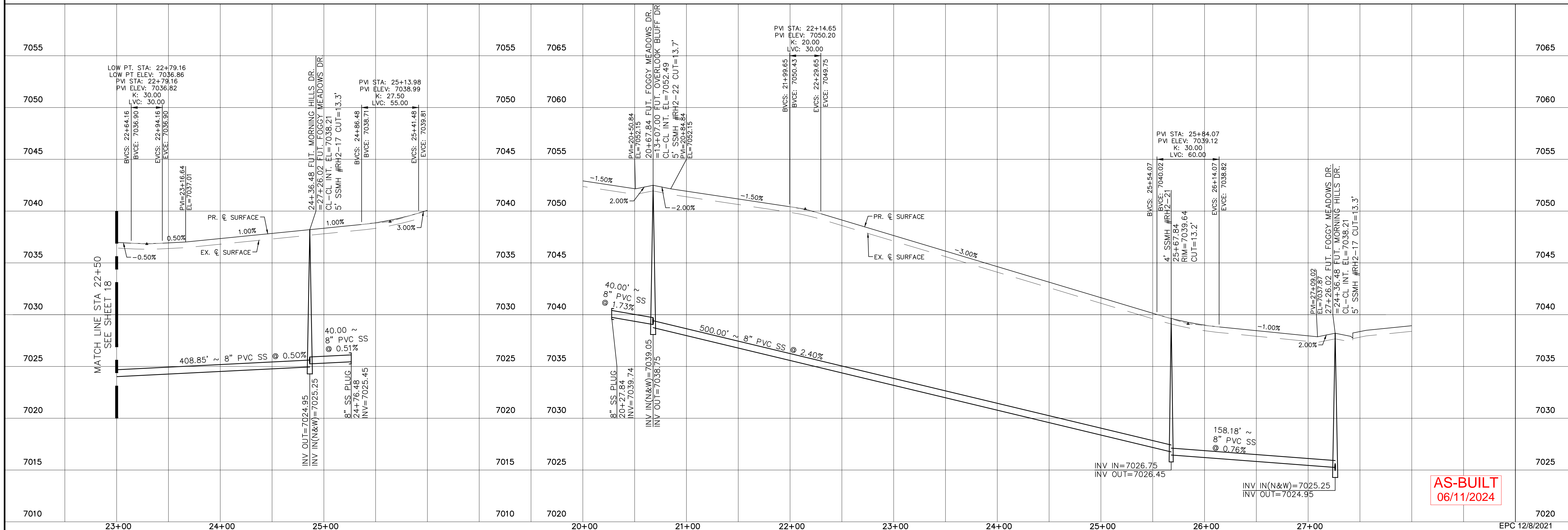


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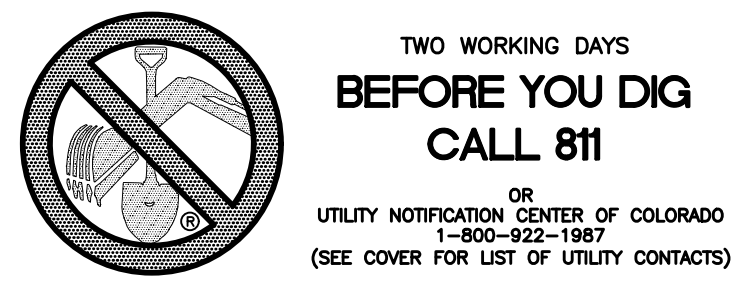
FUT. MORNING HILLS DR.

FUT. FOGGY MEADOWS DR.



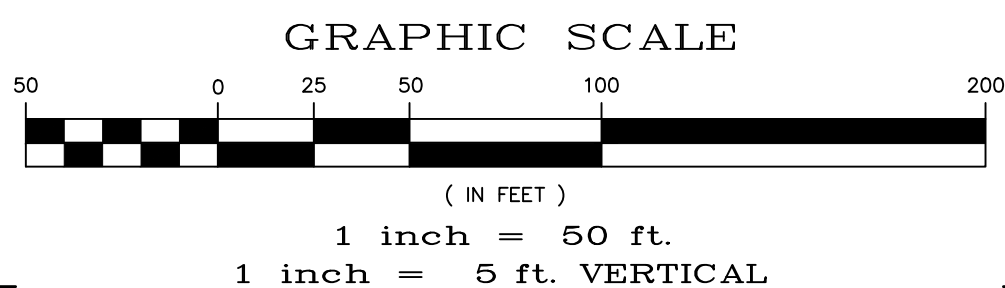
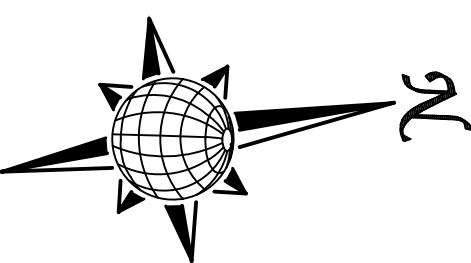
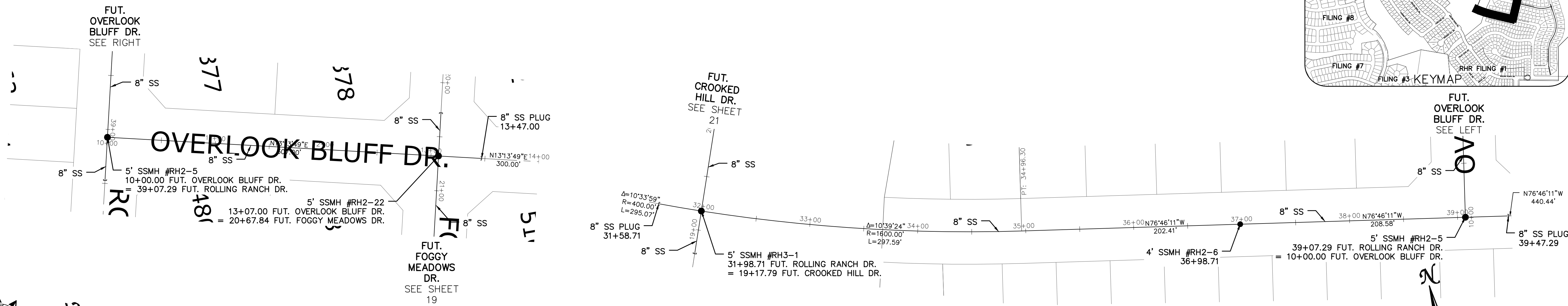
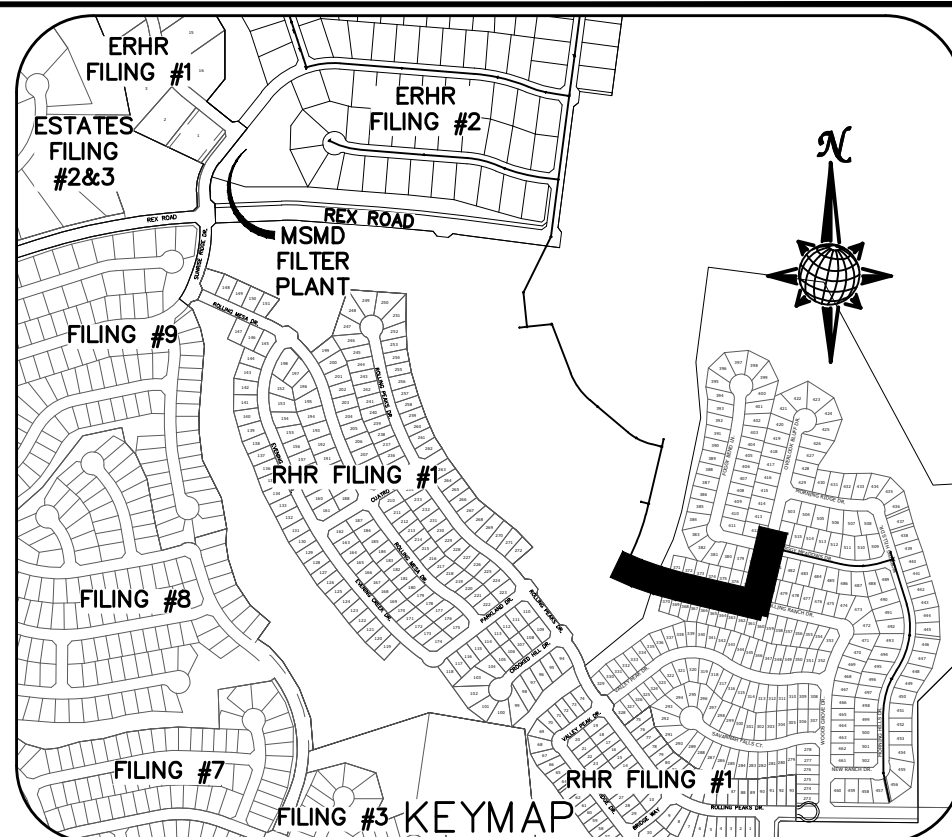
AS-BUILT
06/11/2024

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH	
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS FUT. MORNING HILLS DR.		Drawn by: LOG Checked by: TKM Date: SEPT 2020	
Scale: AS SHOWN 19 of 44		Date: 06/11/2024 31429 PROFESSIONAL ENGINEER	
LIGHT POLES SS SEREVIES WATER SERVICES REX ROAD & 12" VM (SH 1.2, 6.7, 8.9, 10.11, 12.14, 15.16, 22.23, 24.26, 27.28, 30.31, 34.35, 36.38)	REUSE BOUNDARY LOT LINES FOR 67'3" ADD TRACT F	Log 9/15/2021 10/7/2021	Date Invt. Appr. Date



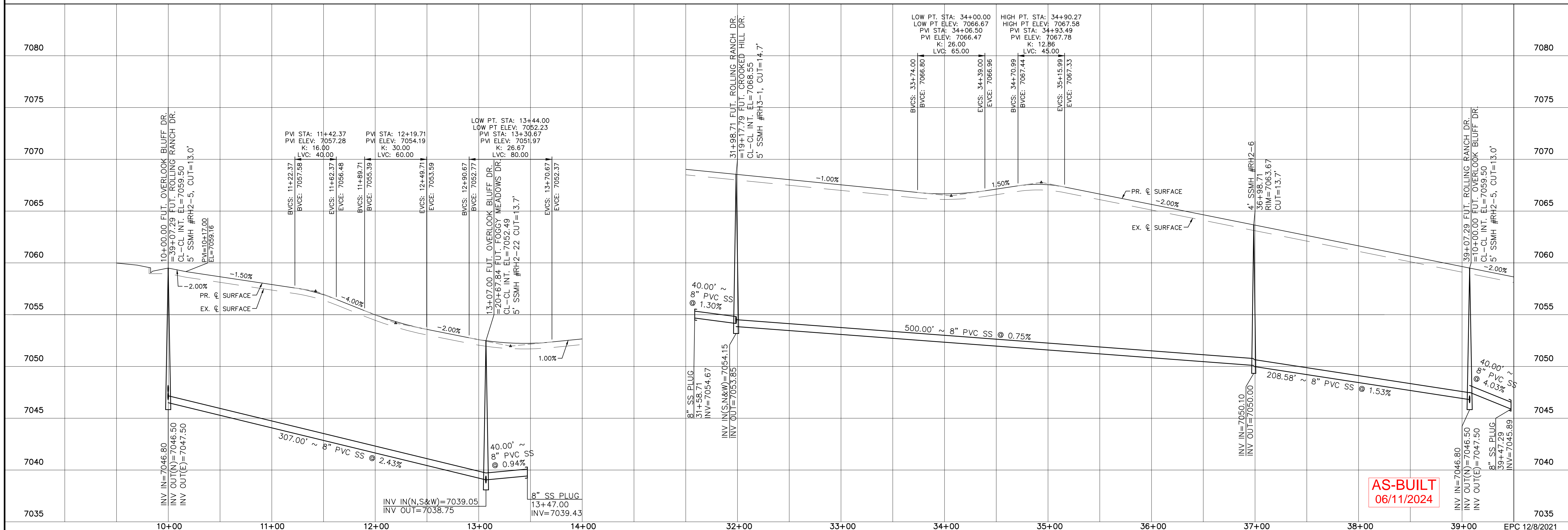
**TWO WORKING DAYS
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UTILITY NOTIFICATION CENTER OF COLORADO
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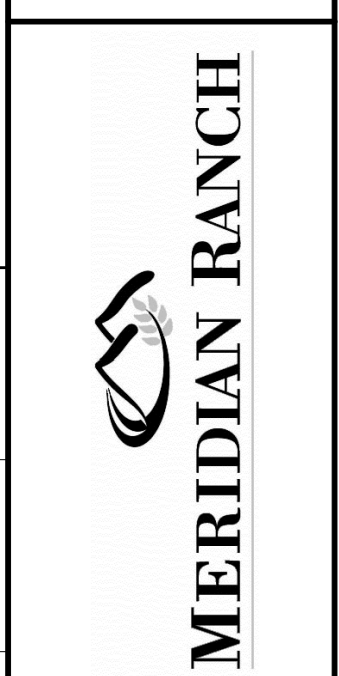
FUT. OVERLOOK BLUFF DR.

FUT. ROLLING RANCH DR.



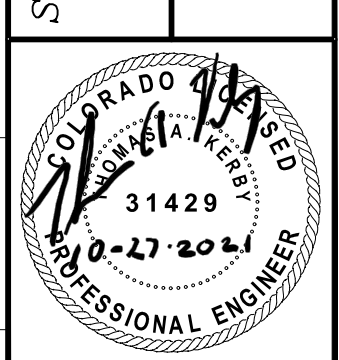
Log	Date	Revisions	No.
9/15/2021			1
10/7/2021			2
			3

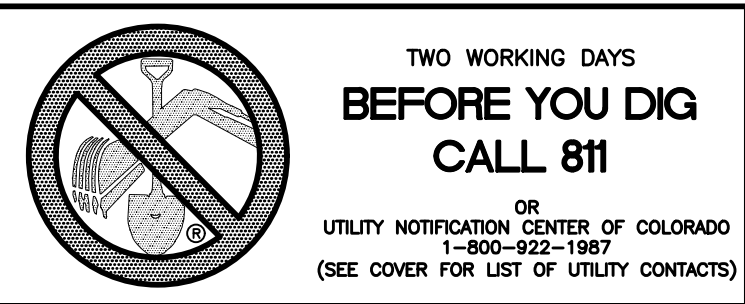
TECH CONTRACTORS DRIVE
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



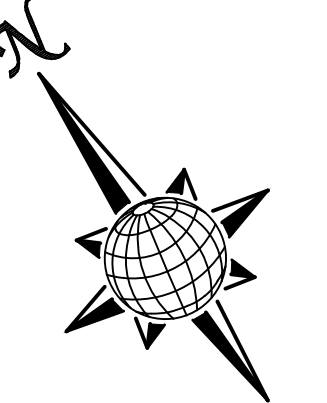
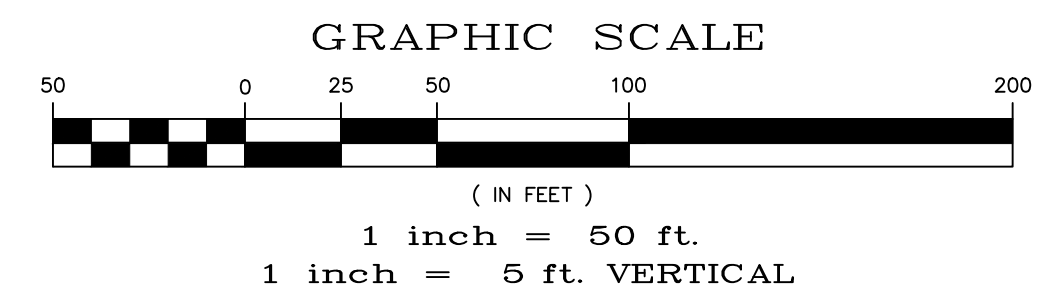
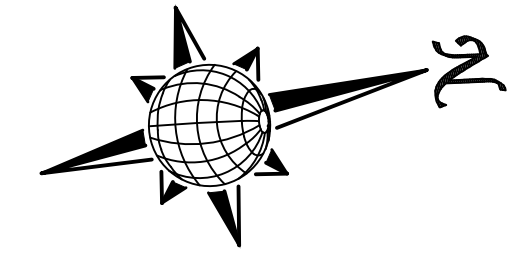
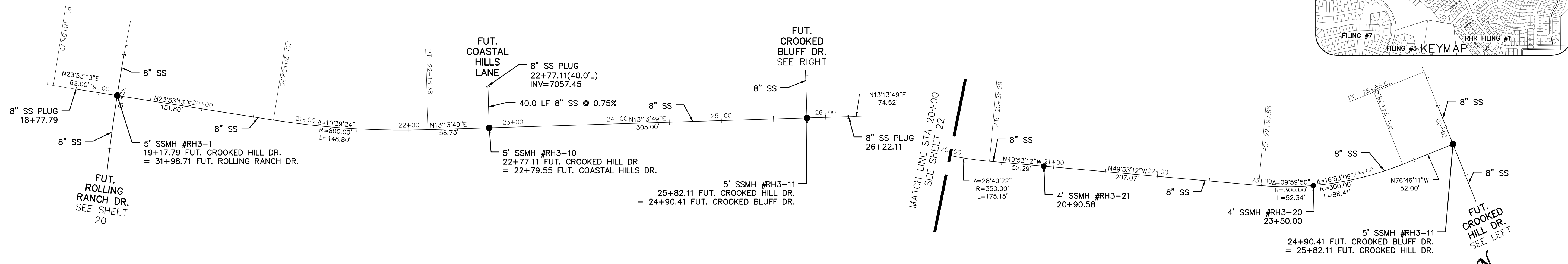
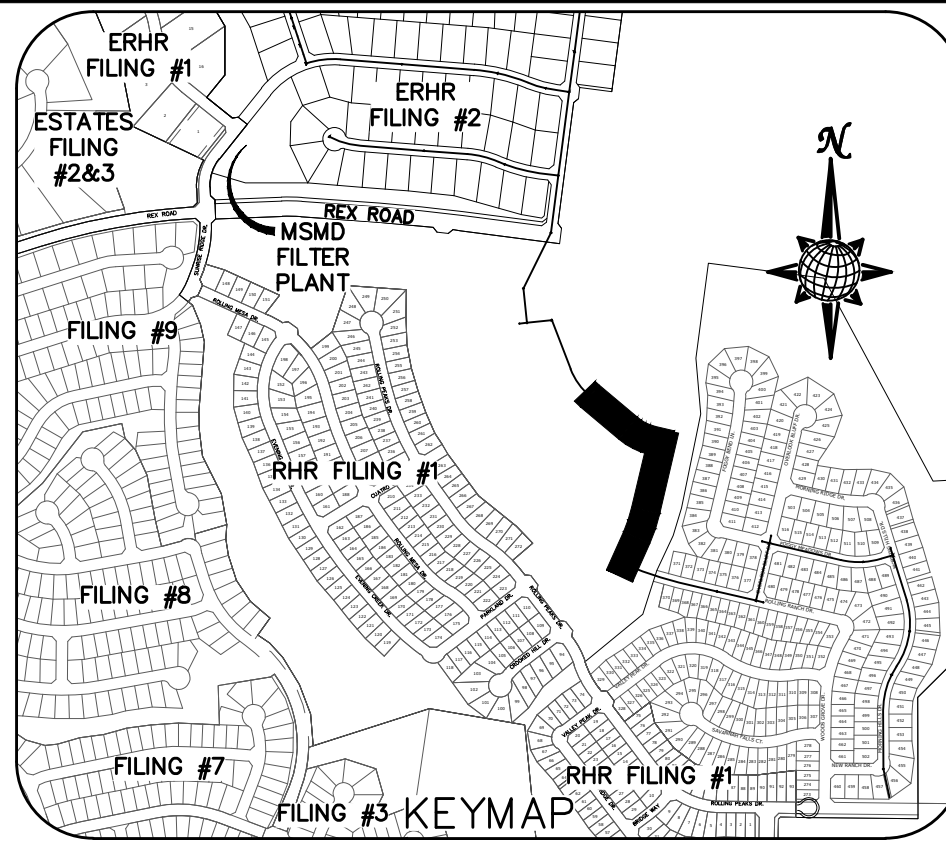
**THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
FUT. OVERLOOK BLUFF DR.
+ FUT. ROLLING RANCH DR.**

Scale	AS SHOWN
Drawn by	LOG
Checked by	TAK
Date	SEPT 2020
Page	20 of 44



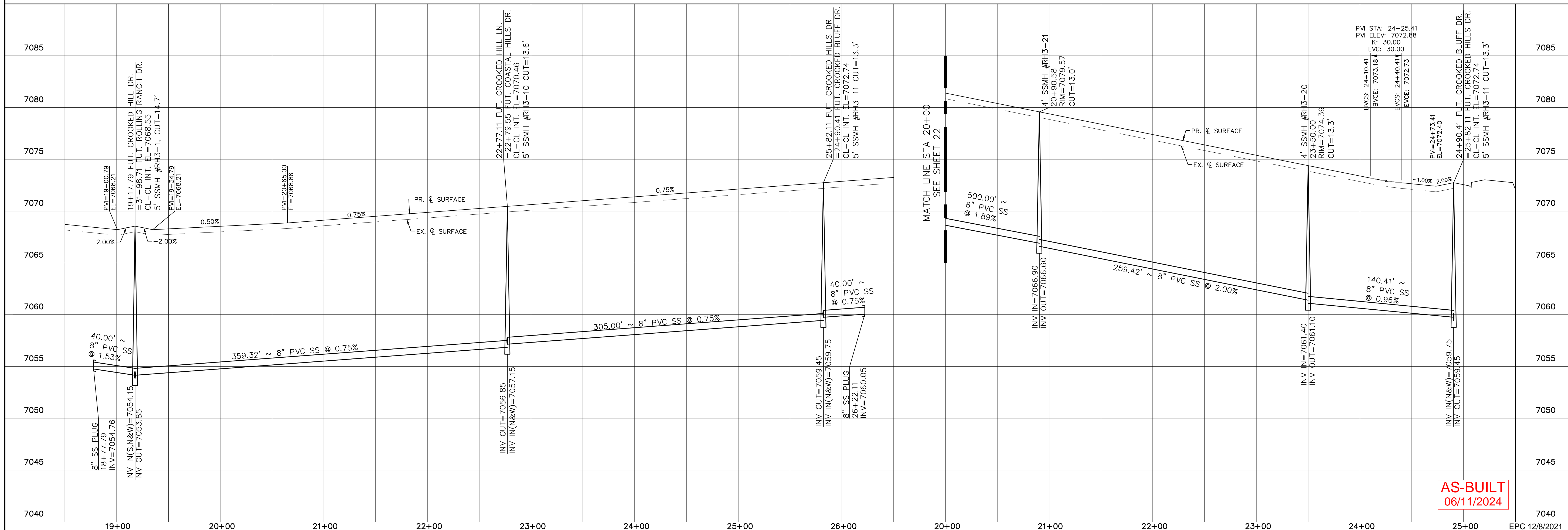


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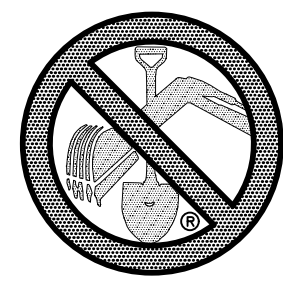
FUT. CROOKED HILL DR.

FUT. CROOKED BLUFF DR.



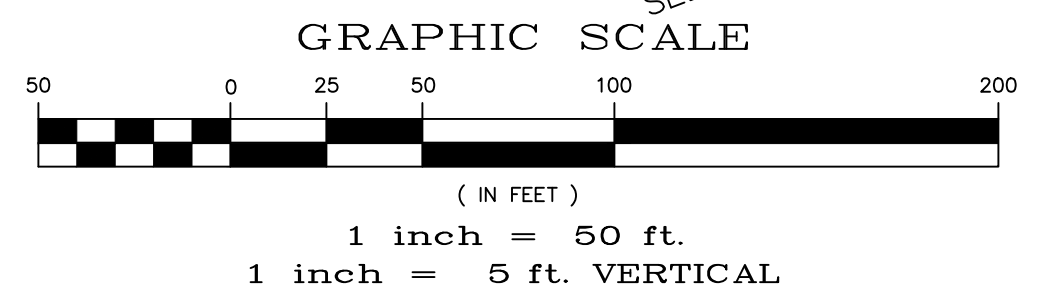
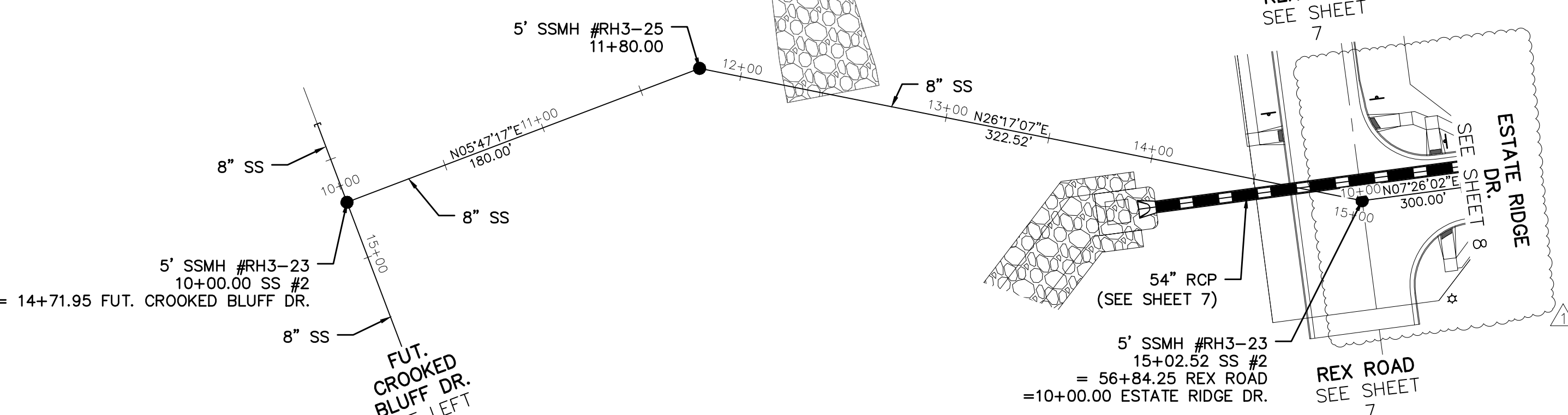
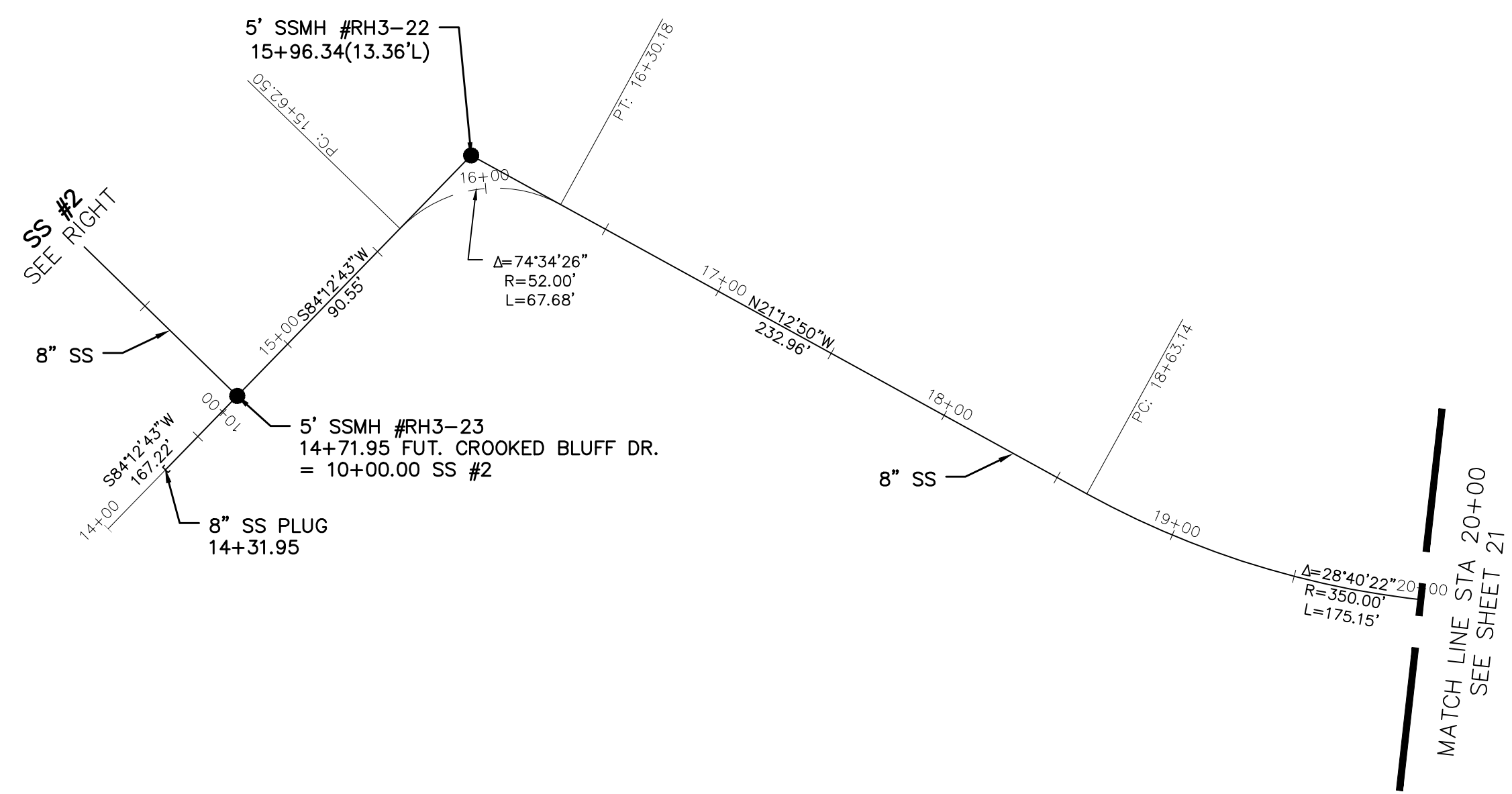
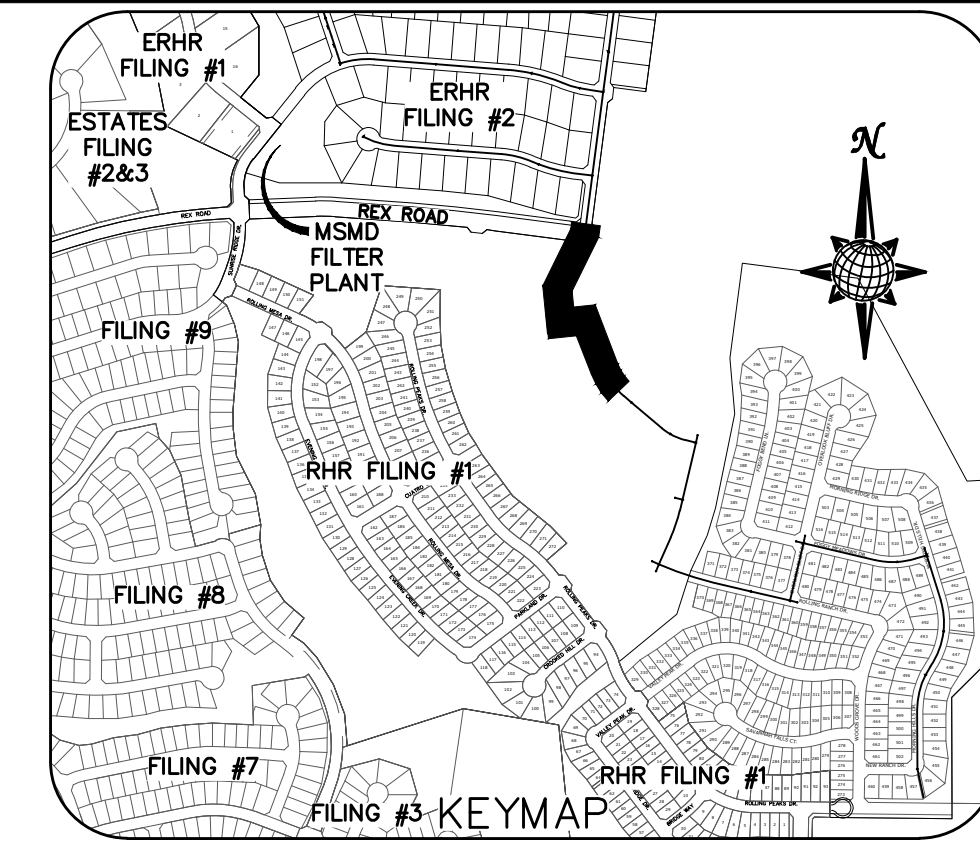
AS-BUILT
06/11/2024

Scale AS SHOWN	Drawn by LOG	Checked by TKM	Date SEPT 2020	No.	Revisions	Date	Appr.
			21 of 44			10/7/2021	
			0-27-2024				
<p>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS</p> <p>FUT. CROOKED HILL DR. + FUT. CROOKED BLUFF DR.</p>		<p>TECH CONTRACTORS DRIVE 11886 STAPLETON DRIVE FALCON, CO 80831</p> <p>TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>		<p>MERIDIAN RANCH</p>		Log	Date



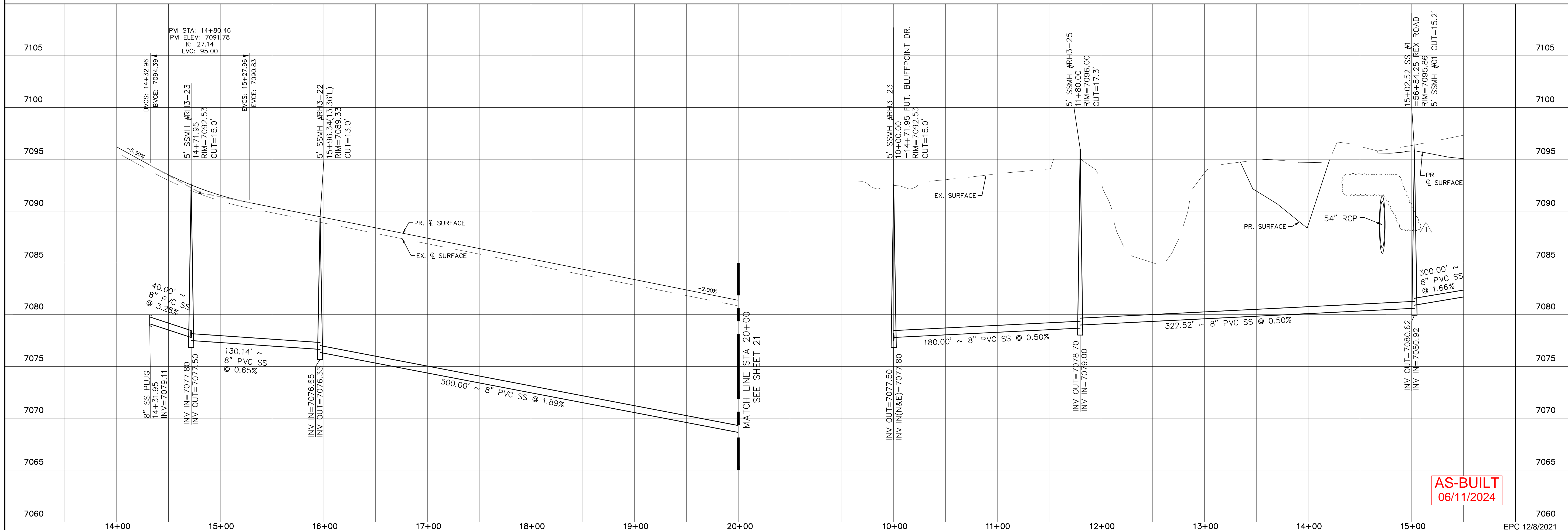
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APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.



FUT. CROOKED BLUFF DR.

SS #2



AS-BUILT
06/11/2024

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		REVISIONS No. Date Description	
1	9/15/2021	LOG	
2	10/7/2021	LOG	
3			

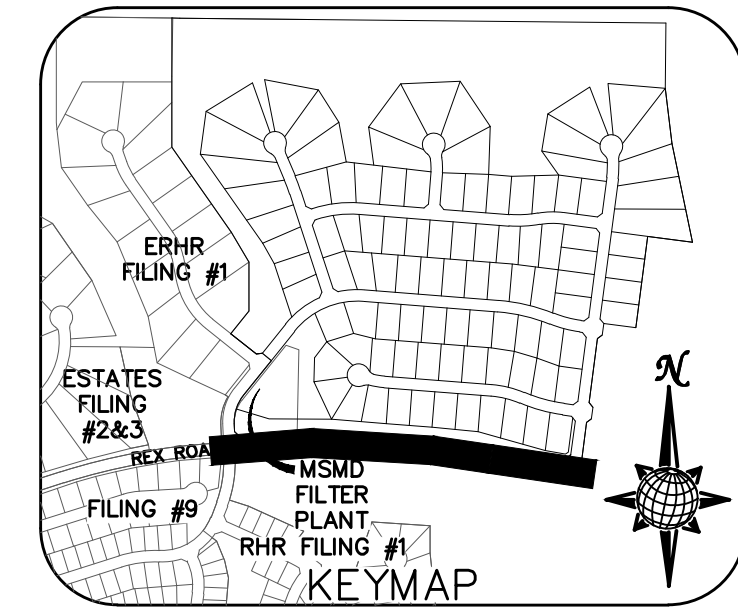
Scale AS SHOWN 22 of 44	Drawn by LOG	Checked by TJK	Date SEPT 2020
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THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS FUT. CROOKED BLUFF DR. + SS #2	 MERIDIAN RANCH
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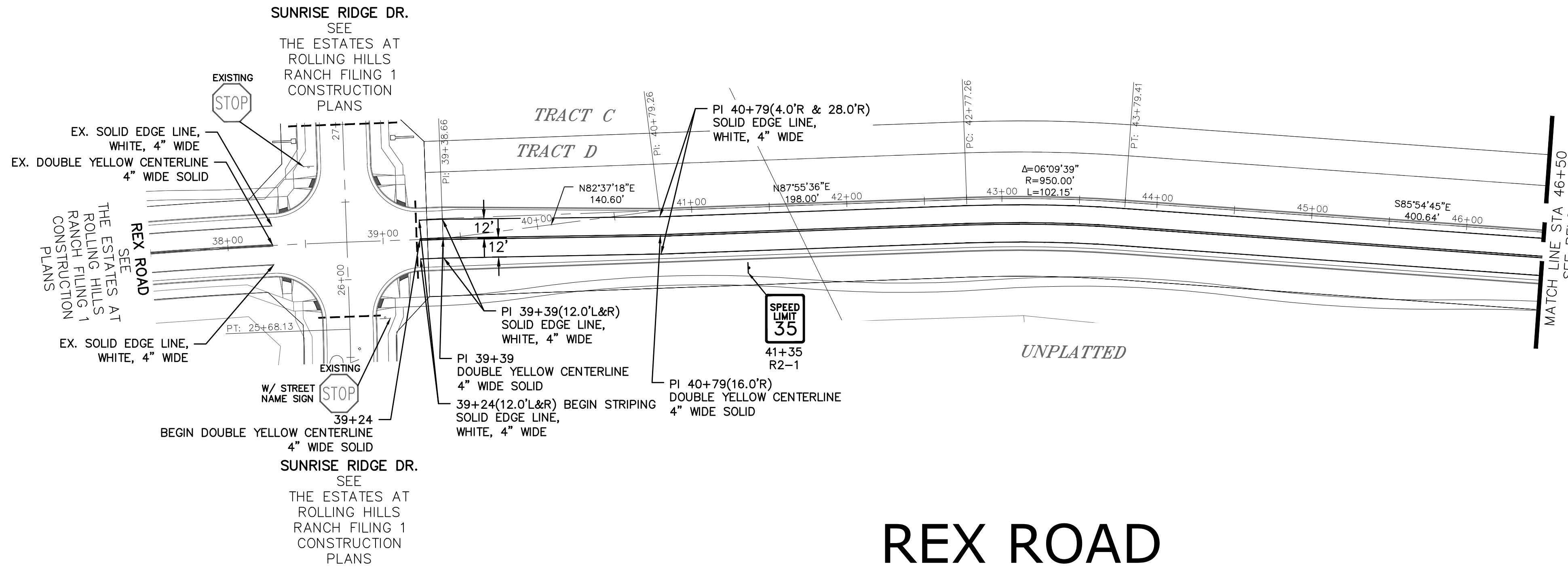
	EPC 12/8/2021
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NOTE:
DOTTED LINES TO BE
2' LONG WITH 4' SPACING
PER MUTCD STANDARD



Date	Appr.	Date	Revisions
9/15/2021	LOG		
10/7/2021	LOG		
06/09/2022	TAK		



REX ROAD

TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

SIGNING AND STRIPING NOTES:

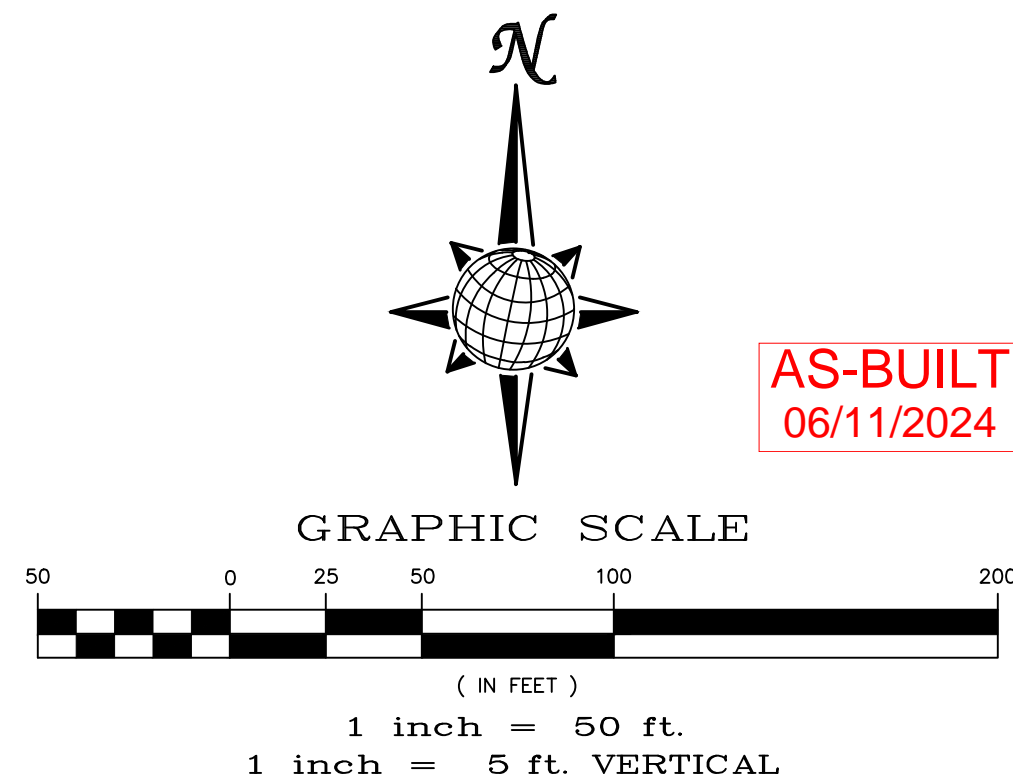
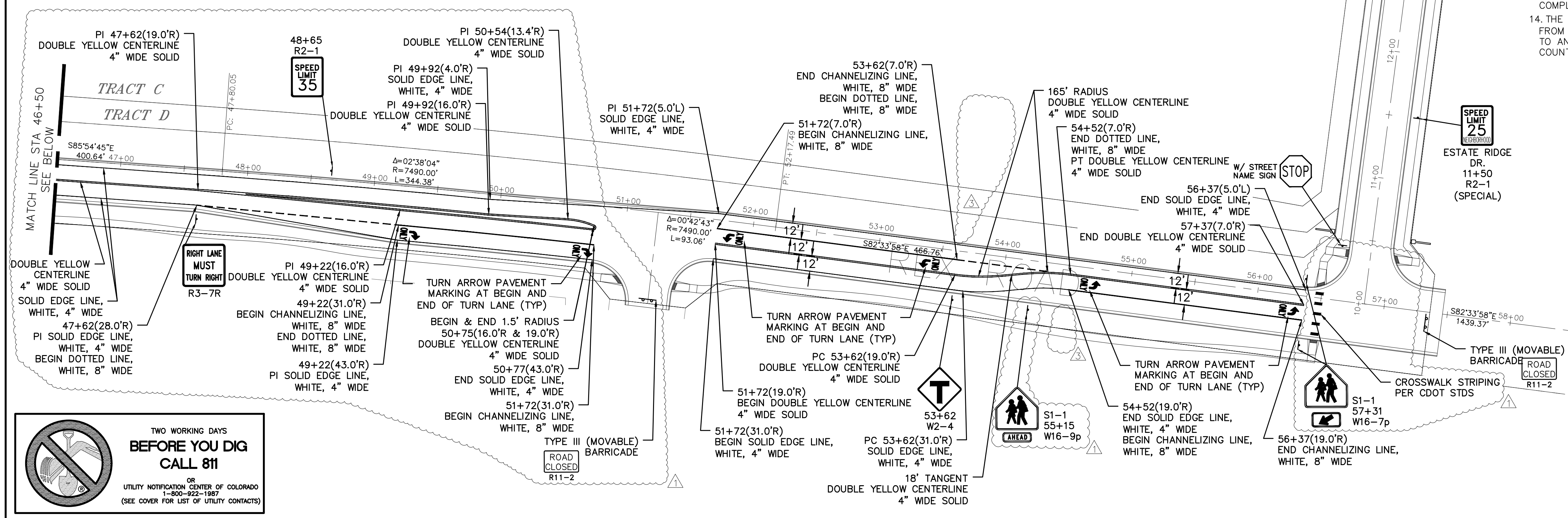
1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



THE ESTATES AT ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
SIGNAGE AND STRIPING

11/13/2019

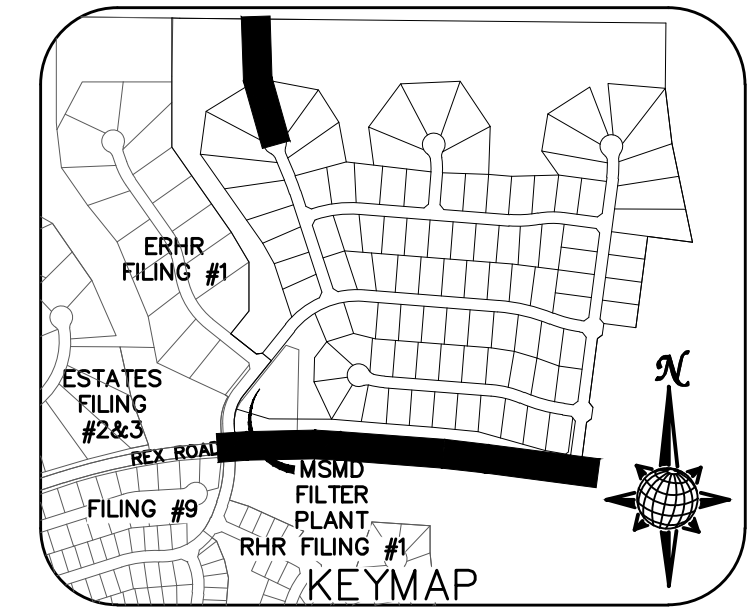
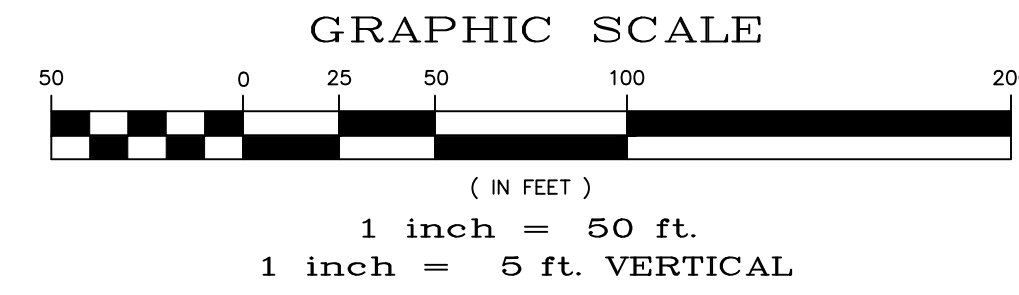


TWO WORKING DAYS BEFORE YOU DIG CALL 811
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	SEPT 2020
23 of 44			



6' SIDEWALK PLAN

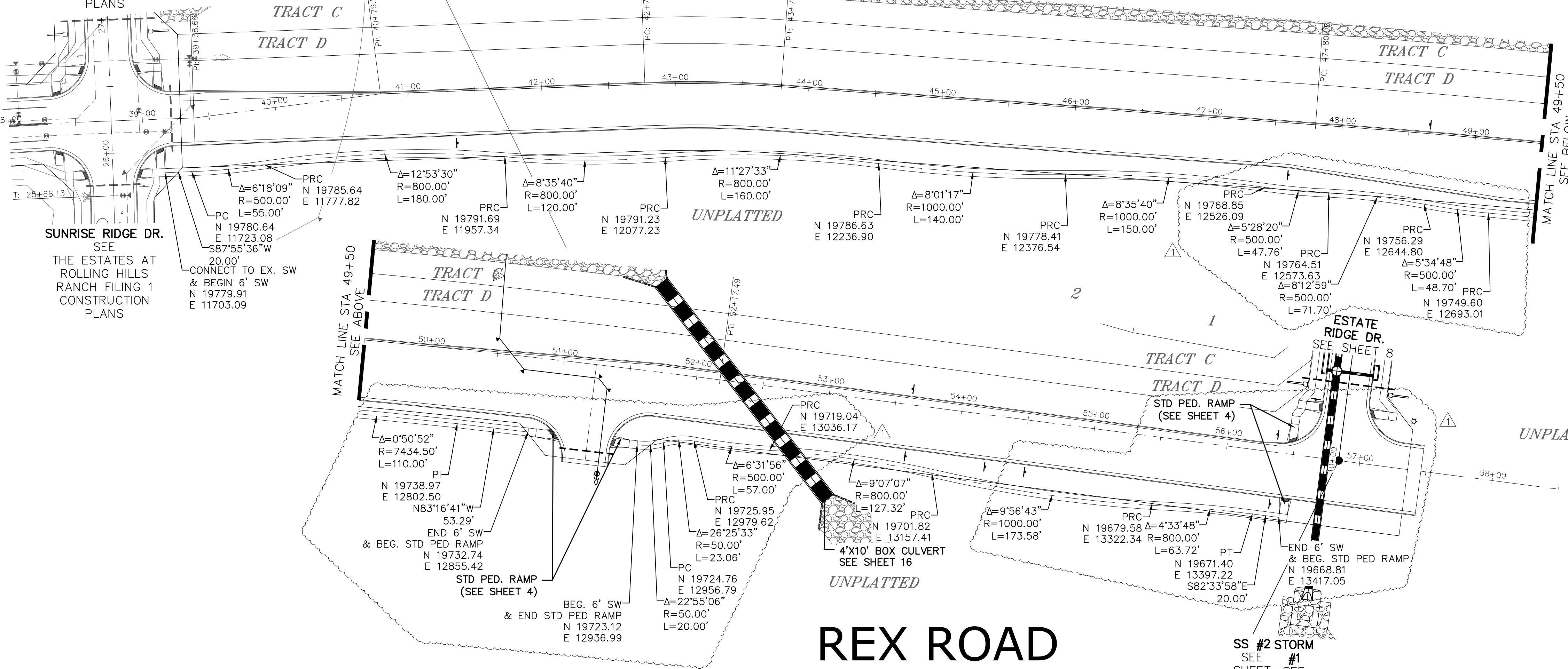


TWO WORKING DAYS
BEFORE YOU DIG CALL 811
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTACTS)

SUNRISE RIDGE DR.
SEE
THE ESTATES AT ROLLING HILLS RANCH FILING 1 CONSTRUCTION PLANS

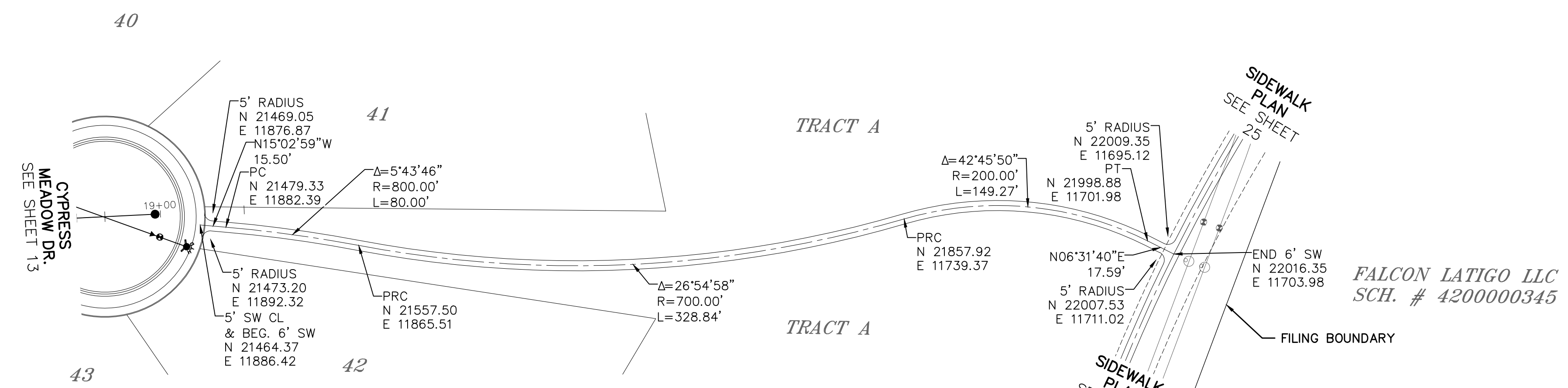
REX ROAD
SEE
THE ESTATES AT ROLLING HILLS RANCH FILING 1 CONSTRUCTION PLANS

SUNRISE RIDGE DR.
SEE
THE ESTATES AT ROLLING HILLS RANCH FILING 1 CONSTRUCTION PLANS



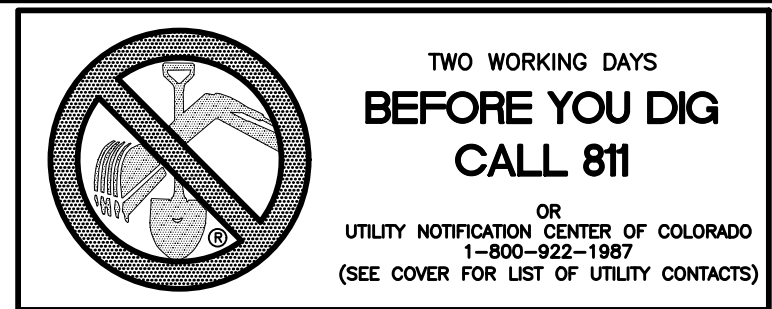
REX ROAD

TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

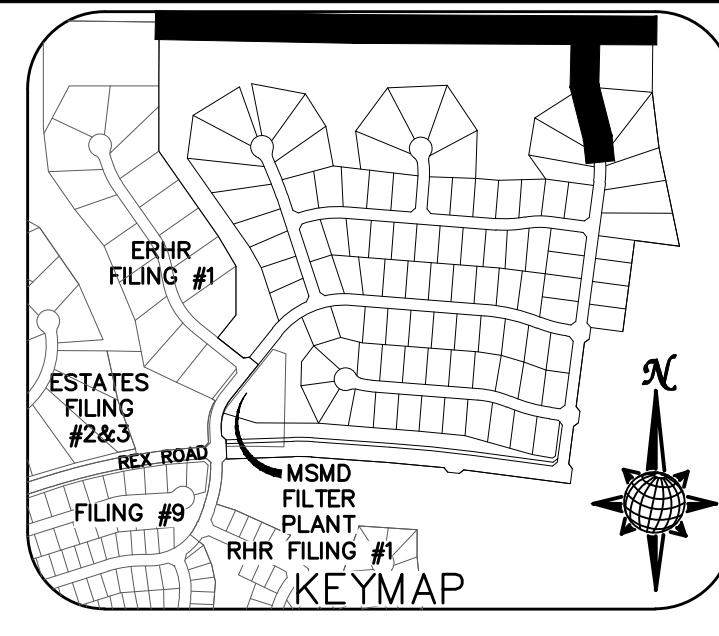
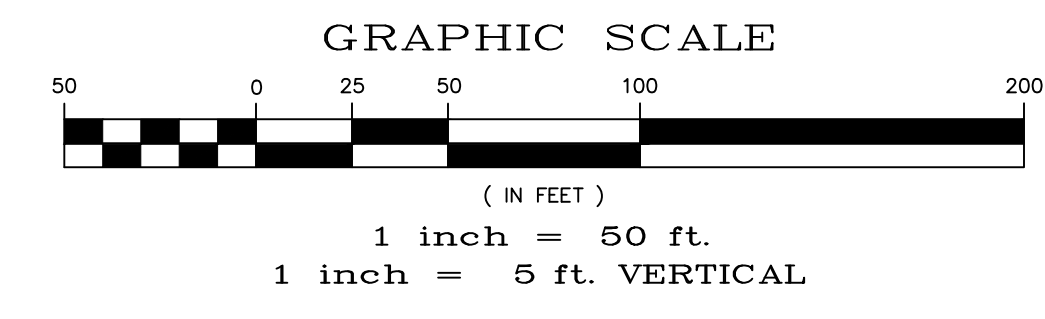


Log	9/15/2021	Date	
Log	10/7/2021	Date	
No.	1	Revisions	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		Date	
MERIDIAN RANCH		Date	
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SIDEWALK PLAN		Date	
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	SEPT 2020
	24	of	44
AS-BUILT 06/11/2024		DATE	
EPC 12/8/2021		DATE	
PROFESSIONAL ENGINEER		DATE	

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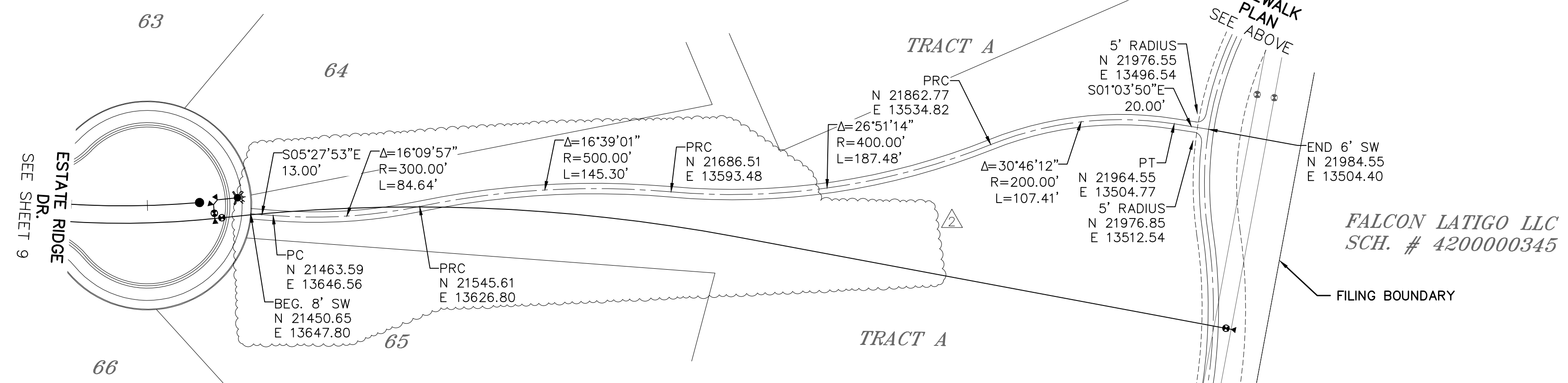
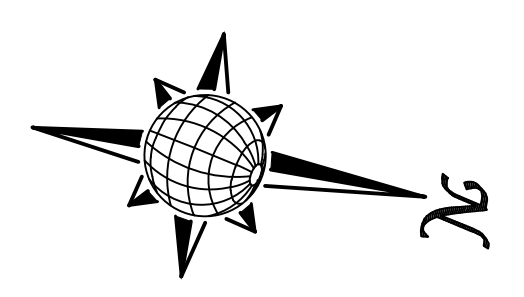
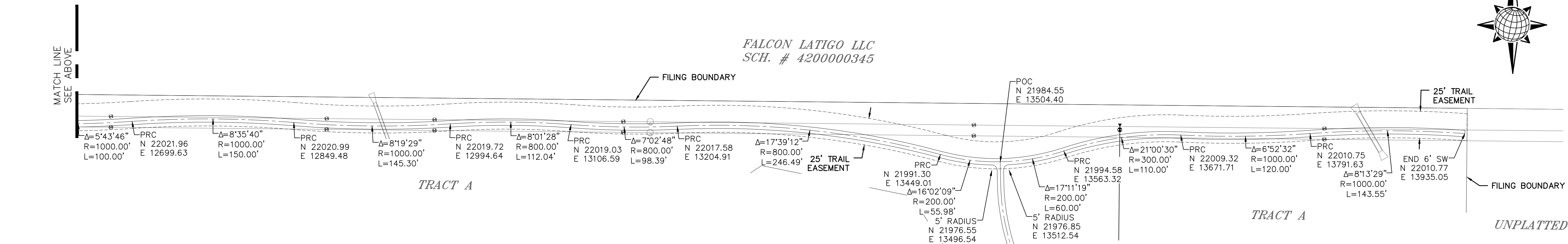
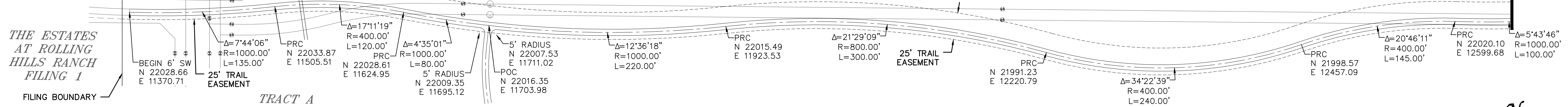


6' SIDEWALK PLAN



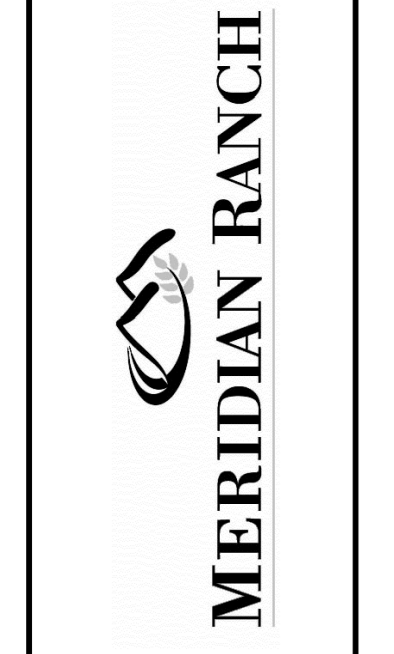
BOLAND FAMILY
REVOC. LIVING TRUST
SCH. # 4218000011

FALCON LATIGO LLC
SCH. # 4200000345



Log	Date	Appr.
9/15/2021		
10/7/2021		

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
SIDEWALK PLAN

Drawn by	Checked by	Date
LOG	TAK	SEPT 2020

Scale AS SHOWN 25 of 44

AS-BUILT
06/11/2024



EPC 12/8/2021



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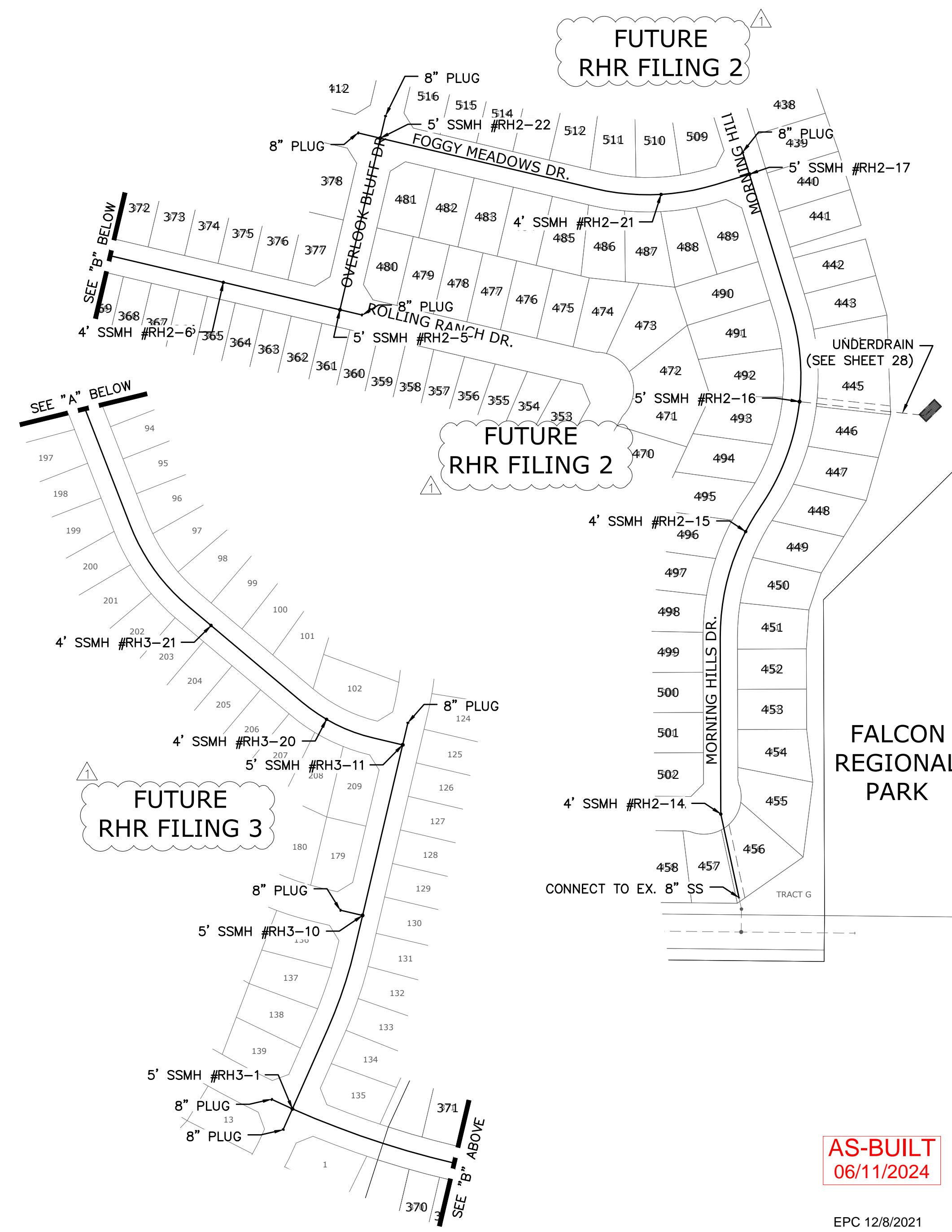
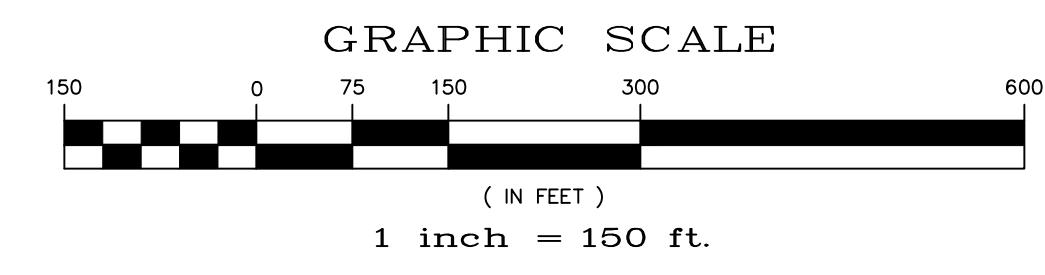
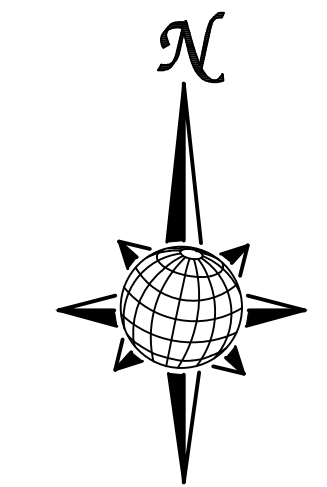
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NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1)ESTATES FILING 2 AT MERIDIAN RANCH
 2)ESTATES FILING 3 AT MERIDIAN RANCH
 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
 4)MERIDIAN RANCH FILING 9
 5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
 7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
 8)ROLLING HILLS RANCH FILING 1

NOTE:
 8" SS UNLESS OTHERWISE LABELED.

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)



THE ESTATES AT ROLLING HILLS RANCH FILING 1

FILING 9

ROLLING HILLS RANCH FILING 1

FUTURE RHR FILING 2

FUTURE RHR FILING 2

FUTURE RHR FILING 3

FALCON REGIONAL PARK

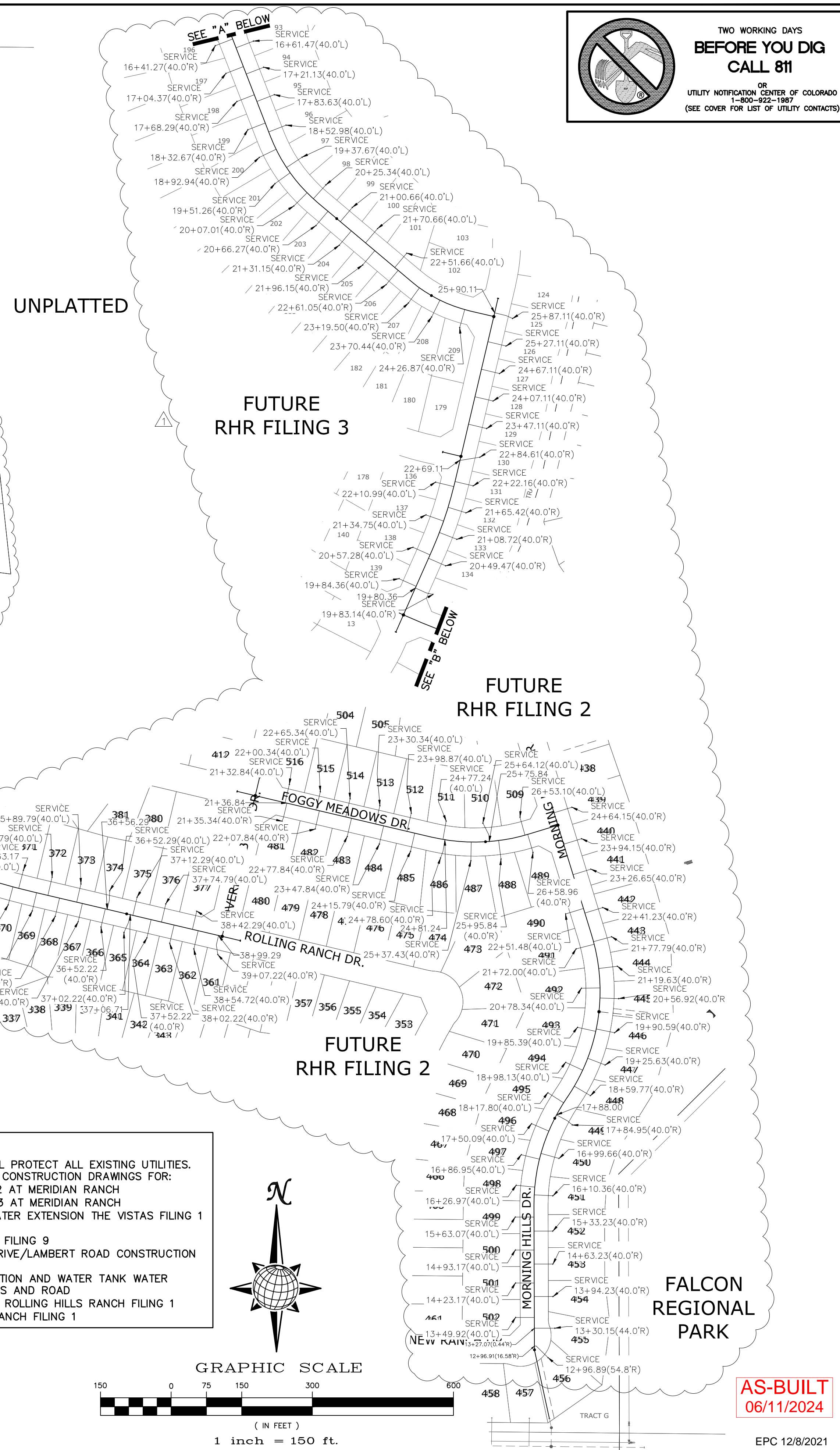
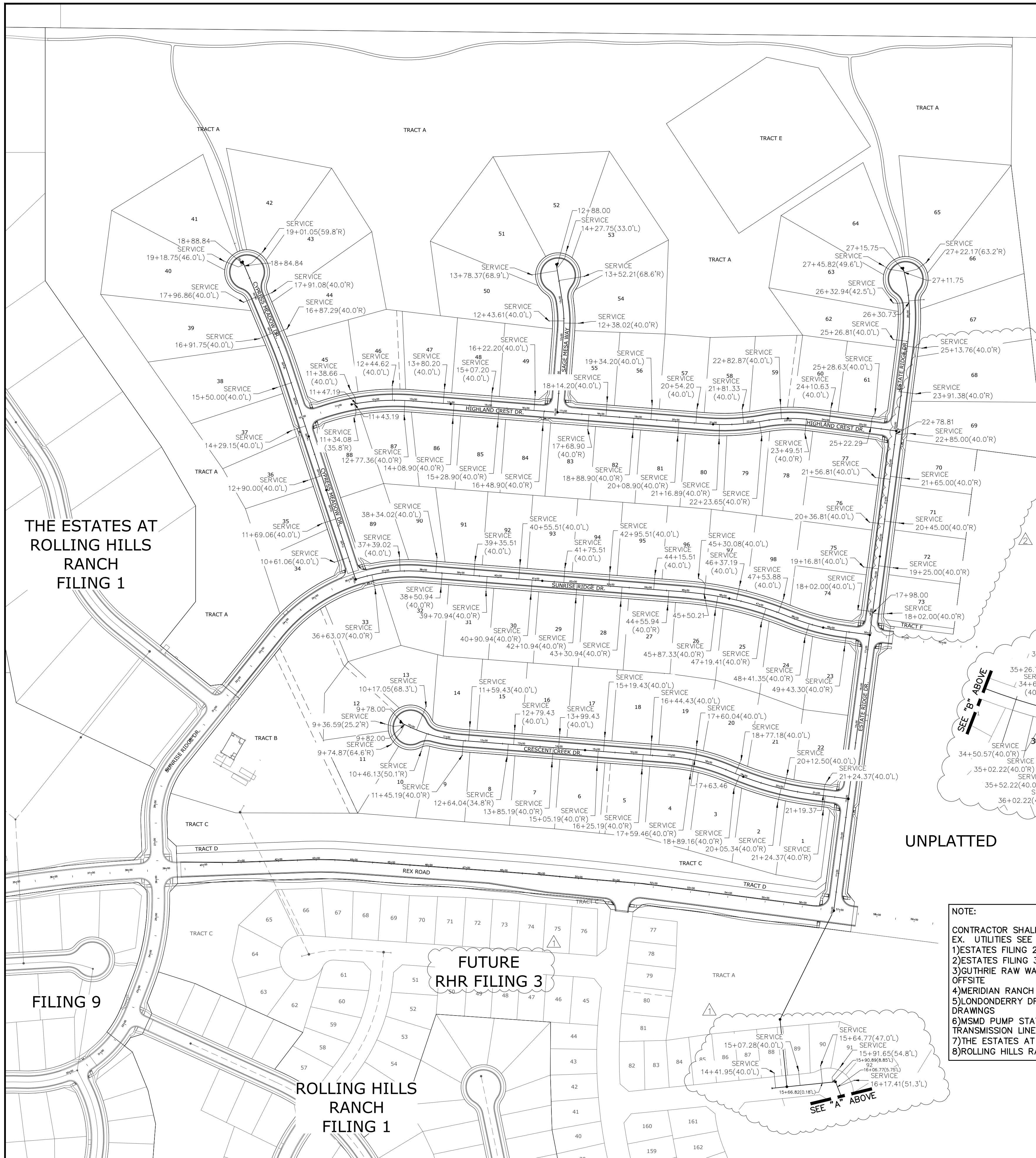
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9/15/2021		
10/7/2021		

No.	Revisions
1	
2	
3	

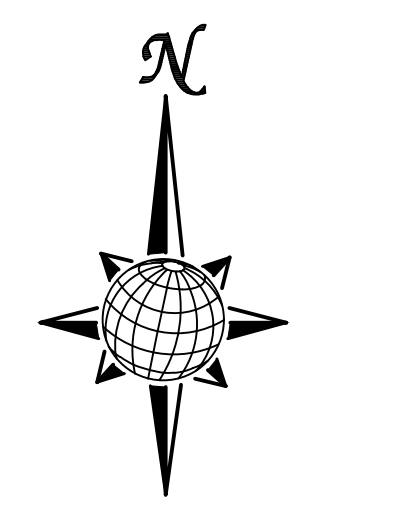
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457
MERIDIAN RANCH
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL SANITARY SEWER
Scale AS SHOWN
26 of 44
Drawn by LOG
Checked by TJK
Date SEPT 2020

AS-BUILT 06/11/2024
EPC 12/8/2021

PROFESSIONAL ENGINEER 31429 0-27-2021



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1)ESTATES FILING 2 AT MERIDIAN RANCH
 2)ESTATES FILING 3 AT MERIDIAN RANCH
 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
 4)MERIDIAN RANCH FILING 9
 5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
 7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
 8)ROLLING HILLS RANCH FILING 1



GRAPHIC SCALE
 1 inch = 150 ft.

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)

LOG		Date	Appr.
9/15/2021	LOG	10/27/2021	
LIGHT POLES SS SERVICES, WATER SERVICES, REX ROAD & 12' WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)			
REUSE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F			
1	2	3	No.
TECH CONTRACTORS		11886 STAPLETON DRIVE	
FALCON, CO 80831		TELEPHONE: 719.495.7444	
		FAX: 719.495.2457	
MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2		OVERALL SS SERVICES	
Drawn by	LOG	Checked by	TAK
AS SHOWN		Date	SEPT 2020
Scale	AS SHOWN	27	of 44
AS-BUILT 06/11/2024		PROFESSIONAL ENGINEER 31429 0-27-2024	
EPC 12/8/2021		PCD PROJECT NO. SF-20-018	



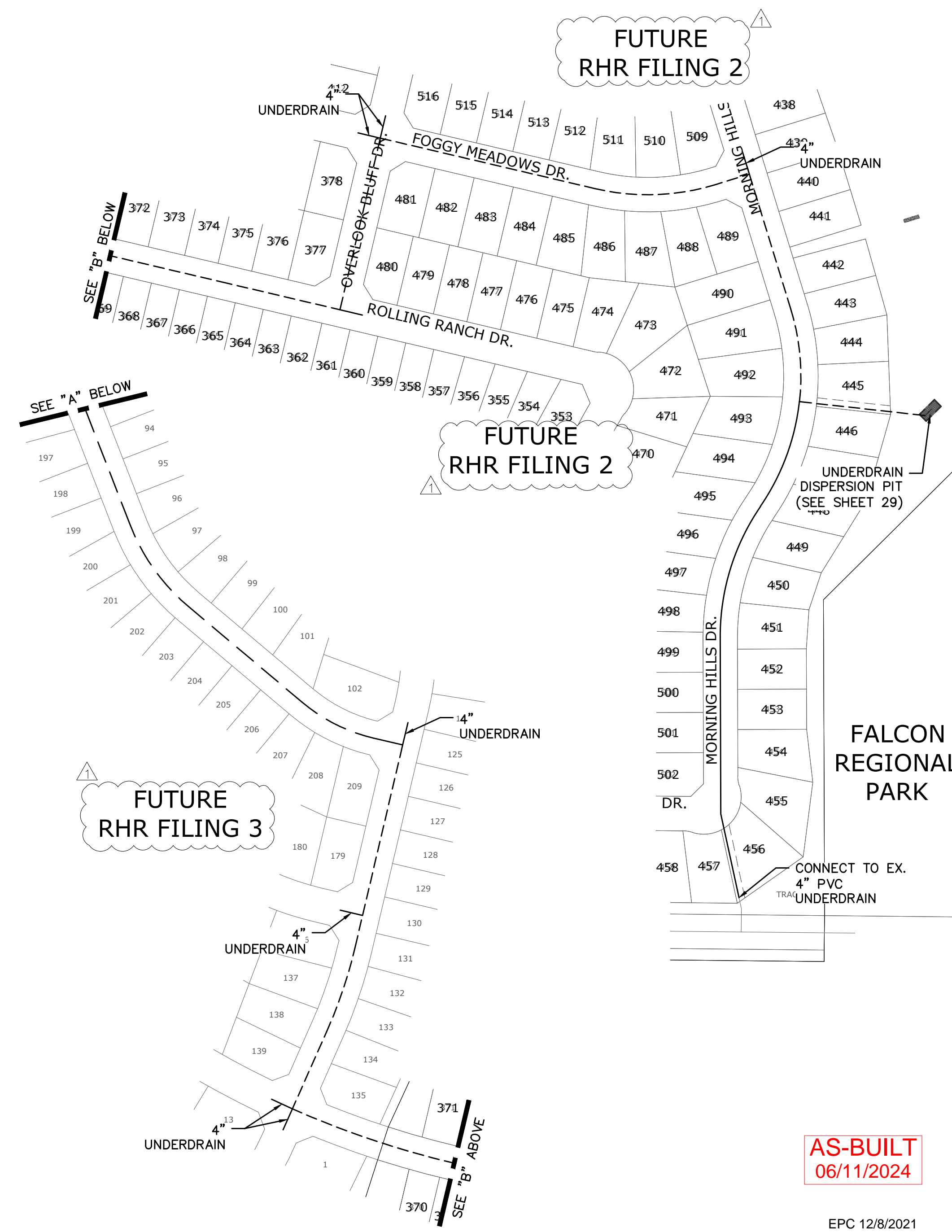
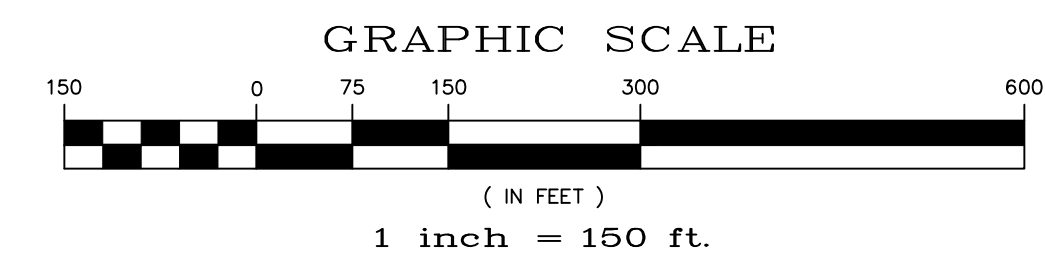
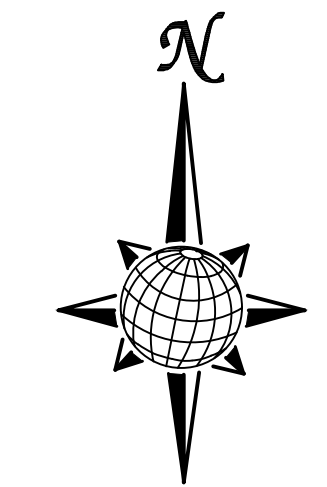
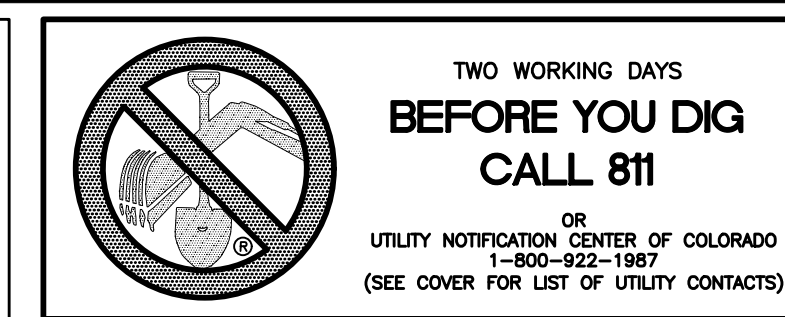
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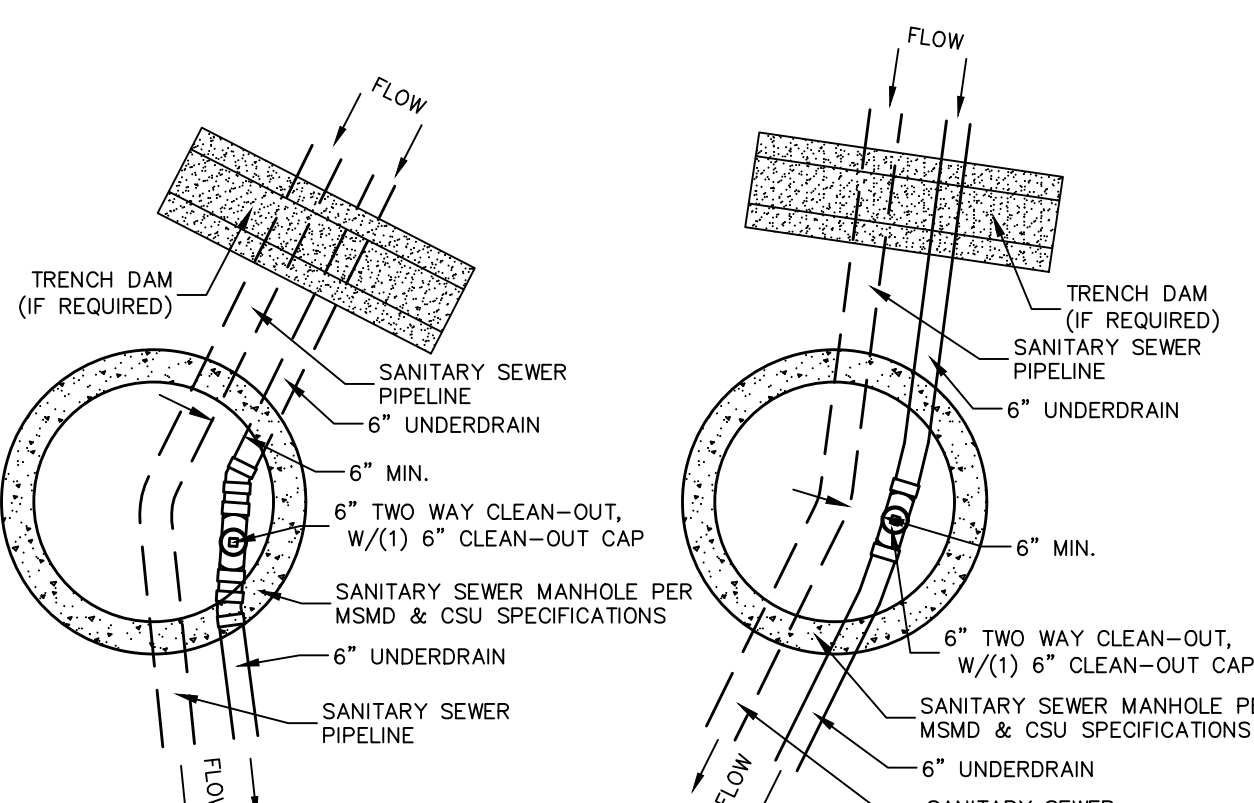
NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1)ESTATES FILING 2 AT MERIDIAN RANCH
 2)ESTATES FILING 3 AT MERIDIAN RANCH
 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
 4)MERIDIAN RANCH FILING 9
 5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 6)MSD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
 7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
 8)ROLLING HILLS RANCH FILING 1

LEGEND

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

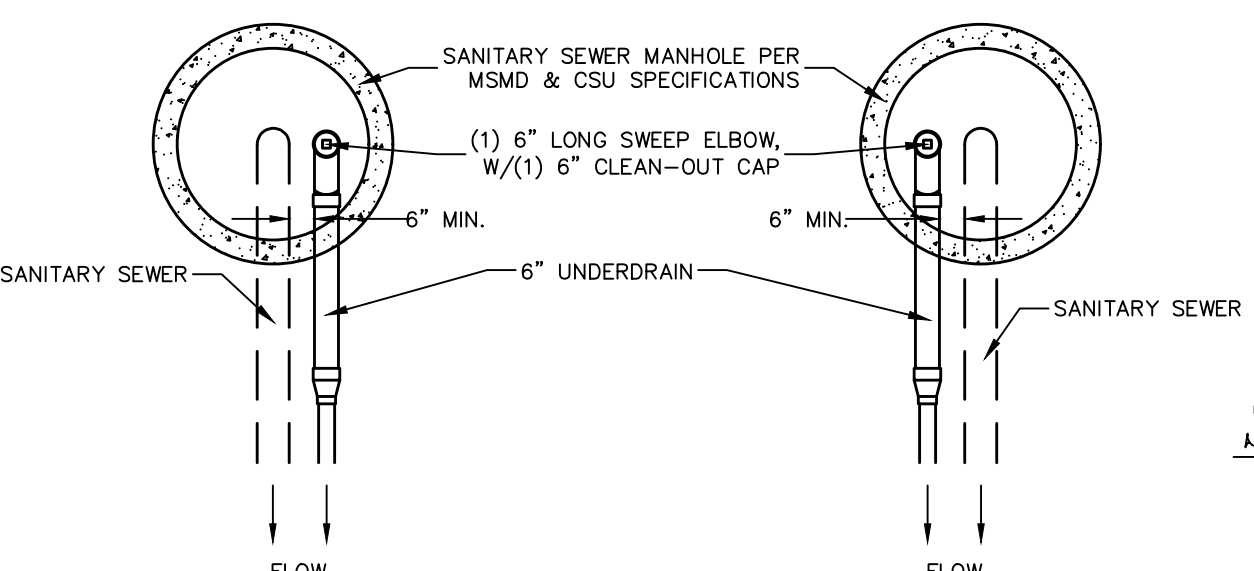


Log	9/15/2021	Log	10/7/2021	Date	9/15/2021	Appr.	
LIGHT POLES SS SERENITIES WATER SERVICES REX ROAD & 12" VM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)		REUSE BOUNDARY LOT LINES FOR 6773, ADD TRACT F					
TECH CONTRACTORS		11886 STAPLETON DRIVE		FALCON, CO 80831		719.495.7444	
TELEPHONE:		719.495.7444		719.495.2457			
FAX:							
MERIDIAN RANCH							
THE ESTATES AT ROLLING HILLS RANCH FILING 2				STREET AND UTILITY PLANS			
OVERALL UNDERDRAIN							
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020		
Scale	AS SHOWN	28	of	44			
AS-BUILT				06/11/2024			
EPC 12/8/2021				PROFESSIONAL ENGINEER			

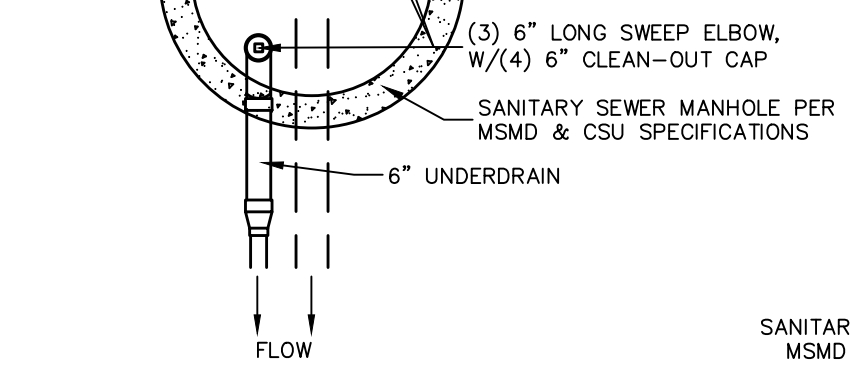


SSMH #RH3-25

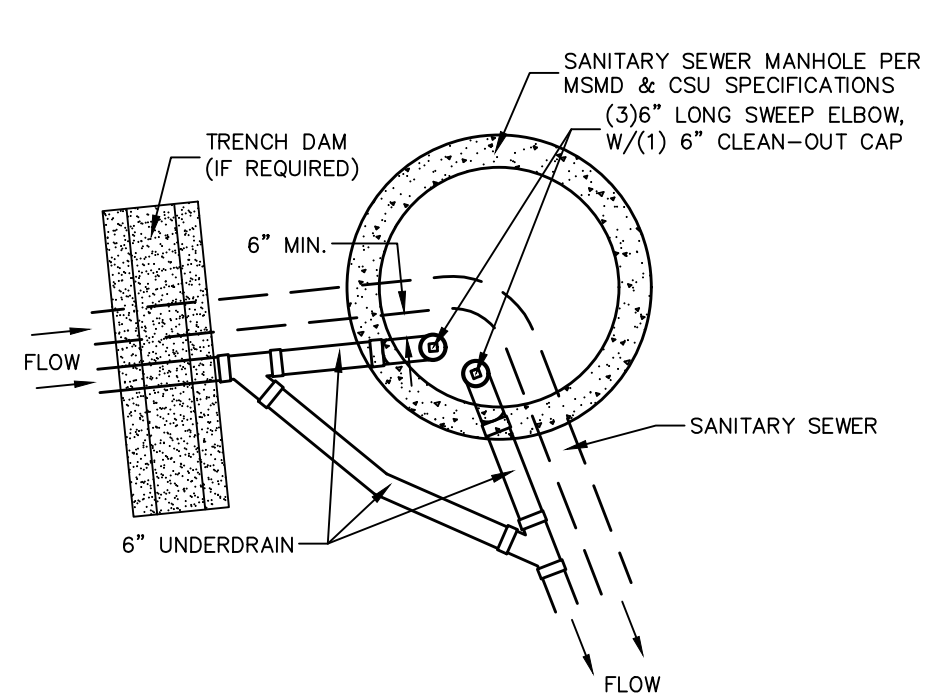
SSMH #1



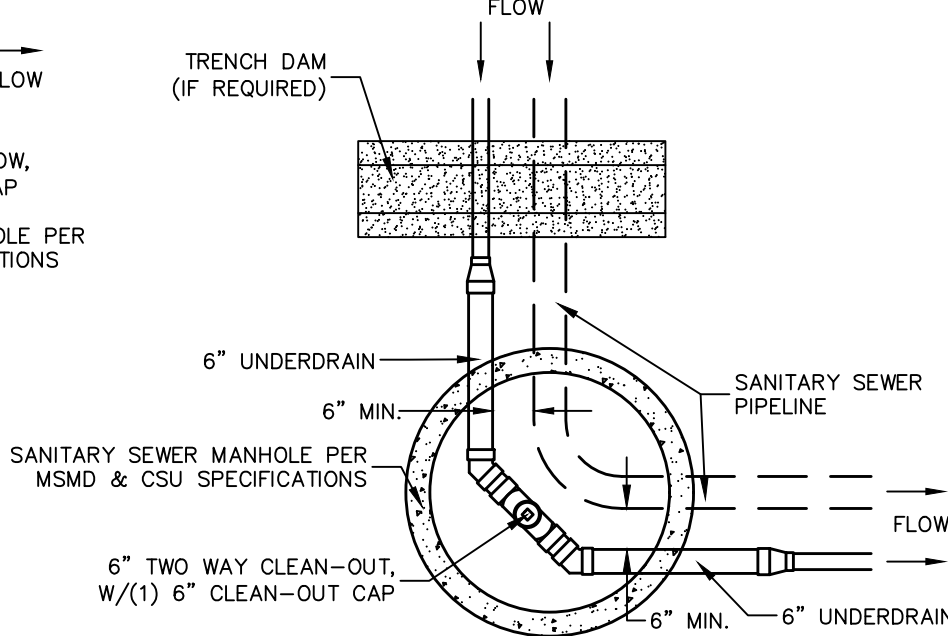
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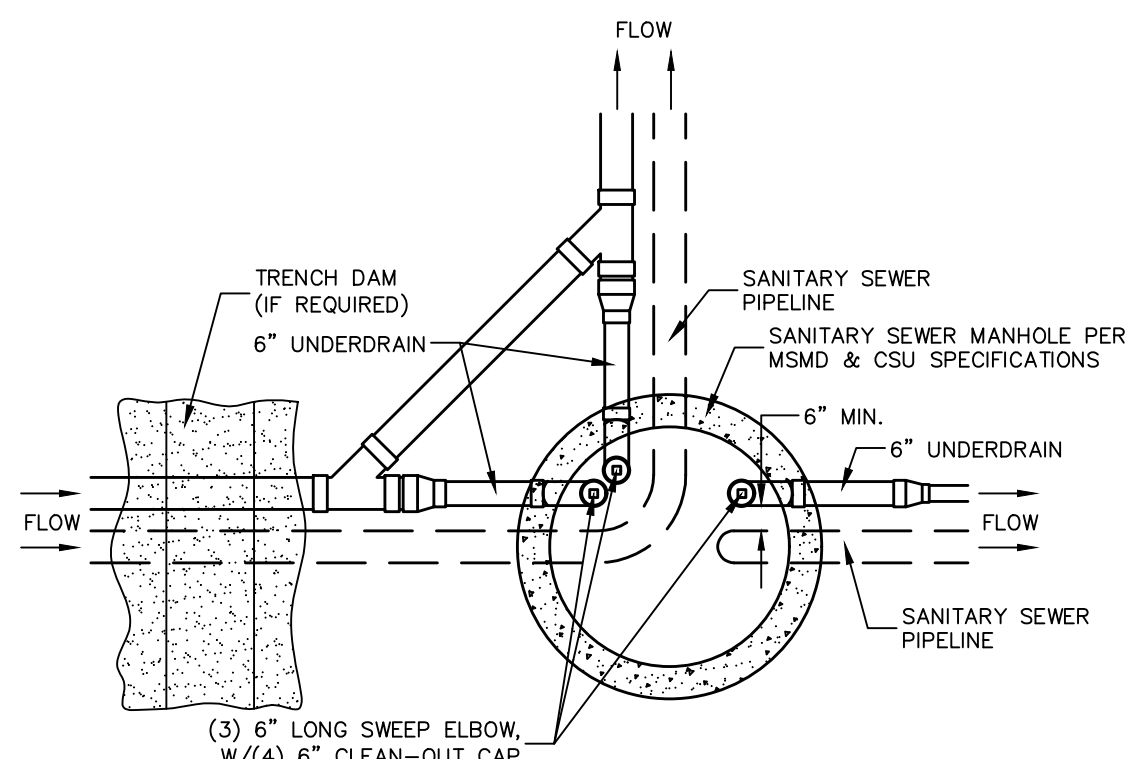
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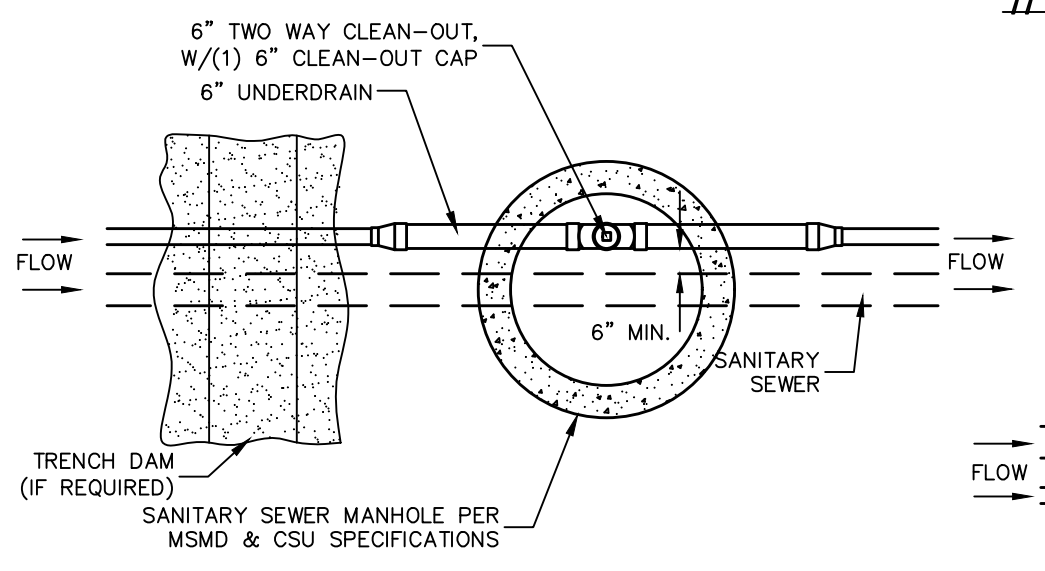
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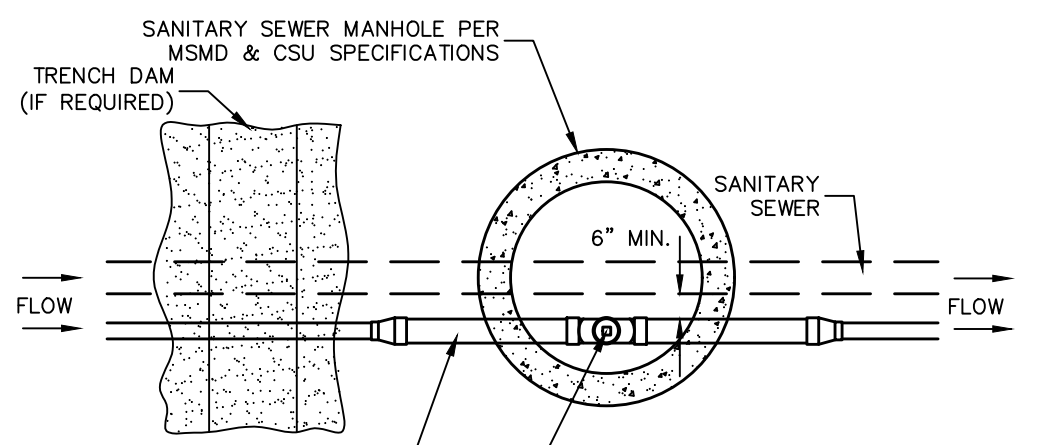
SSMH #13



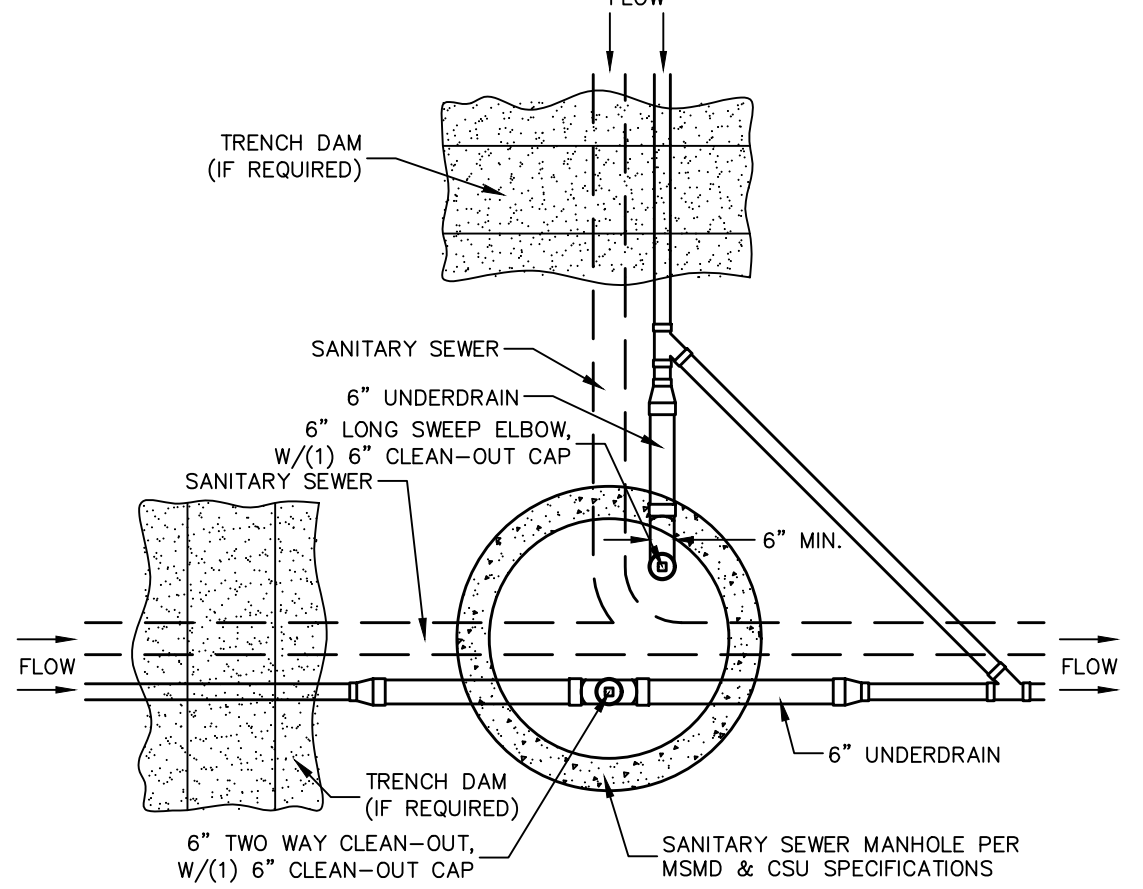
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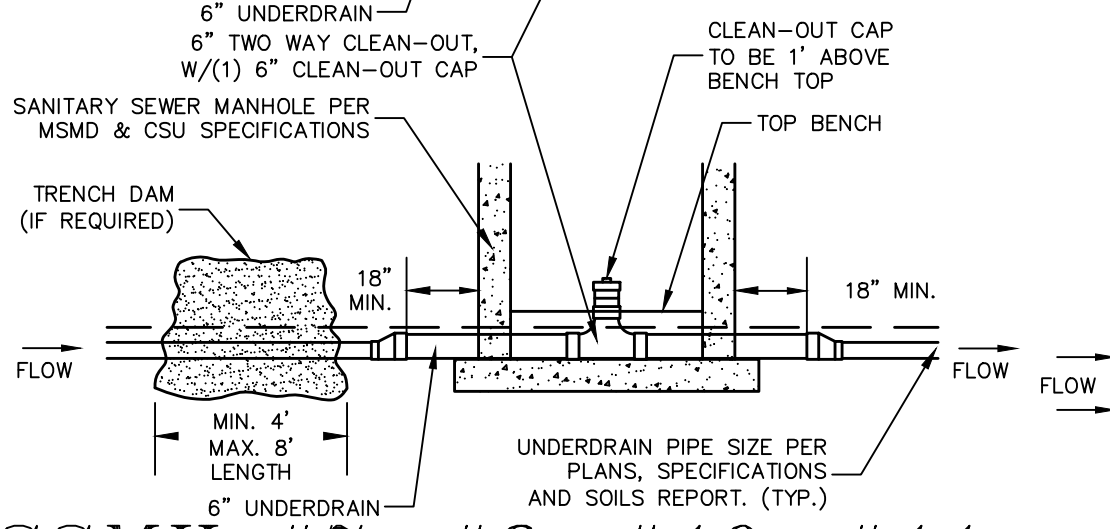
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SSMH #RH3-1

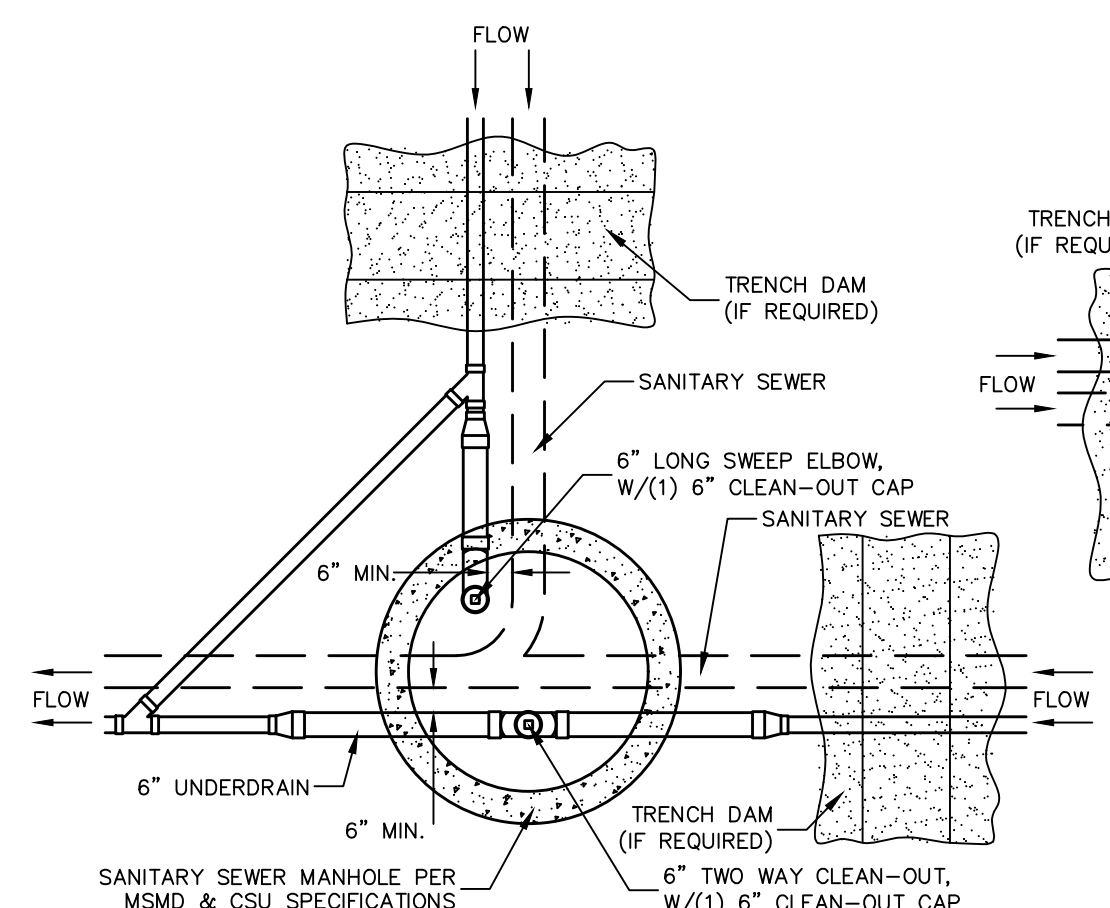


SSMH #19 & #RH3-23

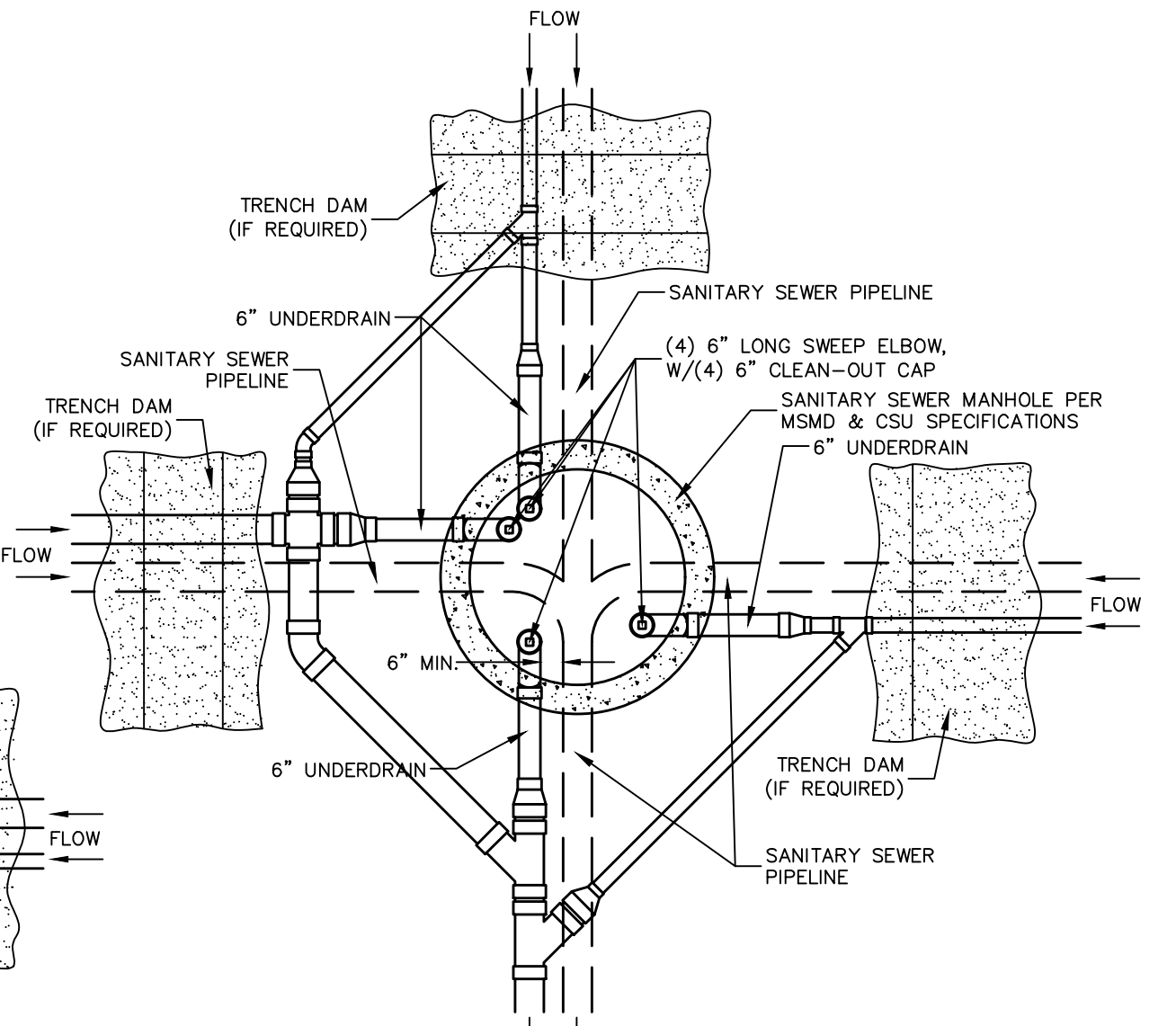


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CLEAN-OUT DETAILS SCALE : N.T.S.



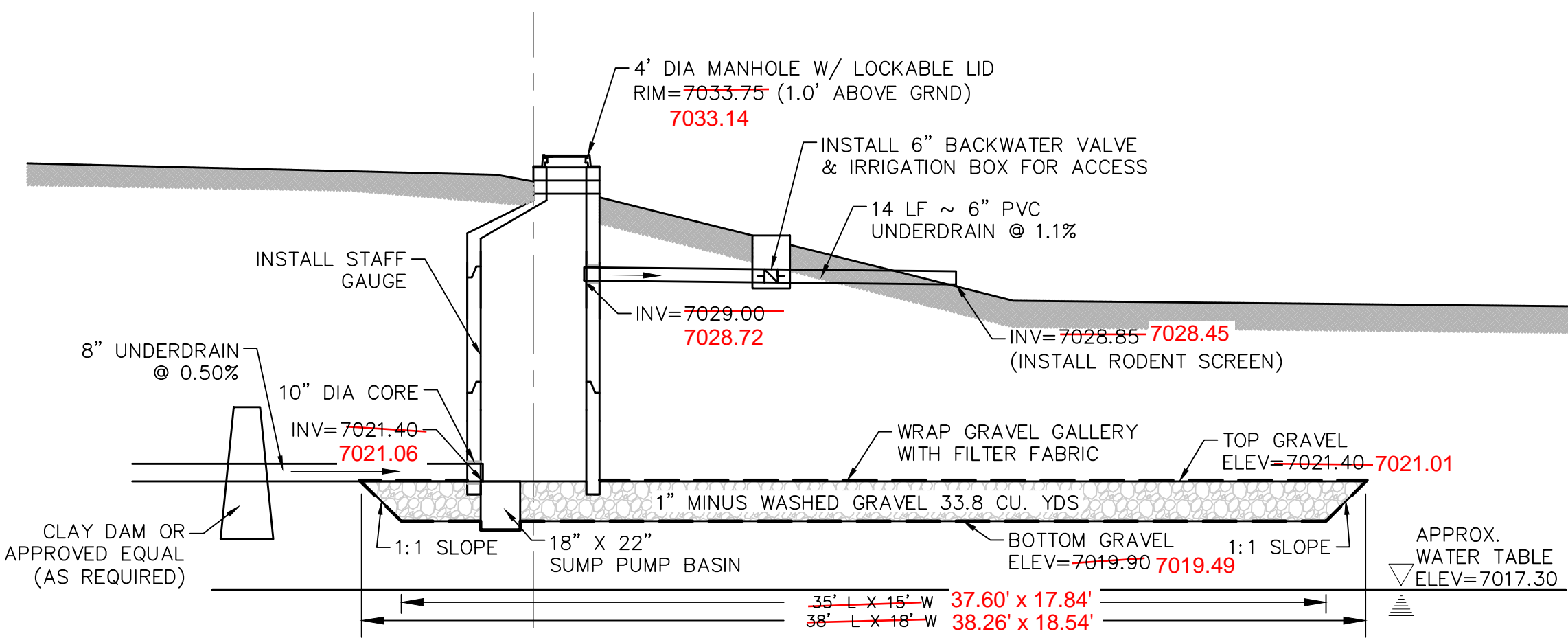
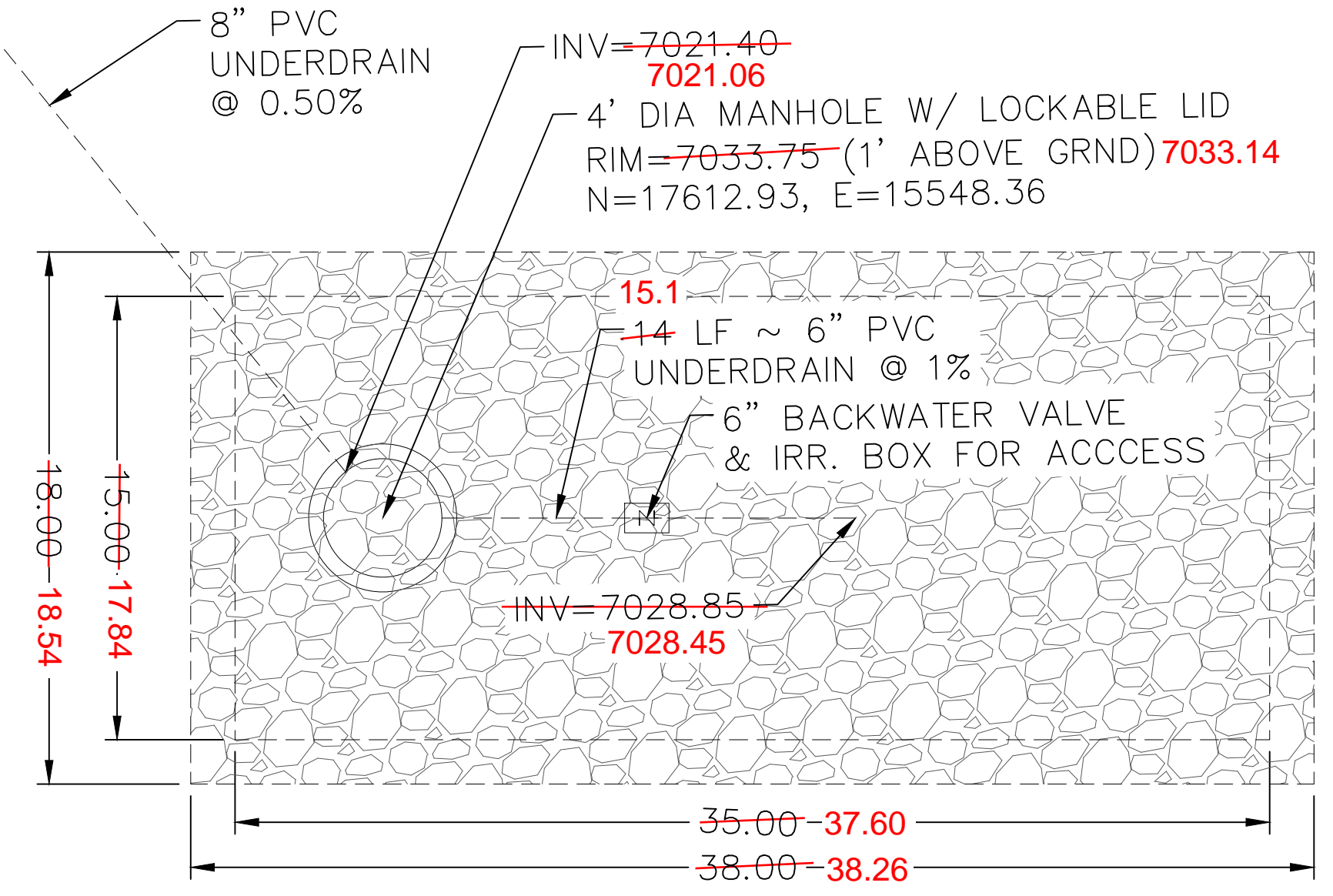
SSMH #2, #3, #5, #RH3-10, #RH3-11, #RH2-17



SSMH #RH2-22

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)

- NOTES:
- 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.
 - 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.
 - 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.
 - 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.
 - UNDERDRAINS WILL DAYLIGHT AT LOCATIONS SHOWN ON THE DRAWINGS.
 - 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.
 - 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.
 - TRENCH DAMS MAY BE CONSTRUCTED OF ON SITE MATERIALS IF APPROVED BY THE SOILS ENGINEER.
 - 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.
 - TRENCH DAMS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR AROUND THE SEWER AND UNDERDRAIN PIPELINES.
 - 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.



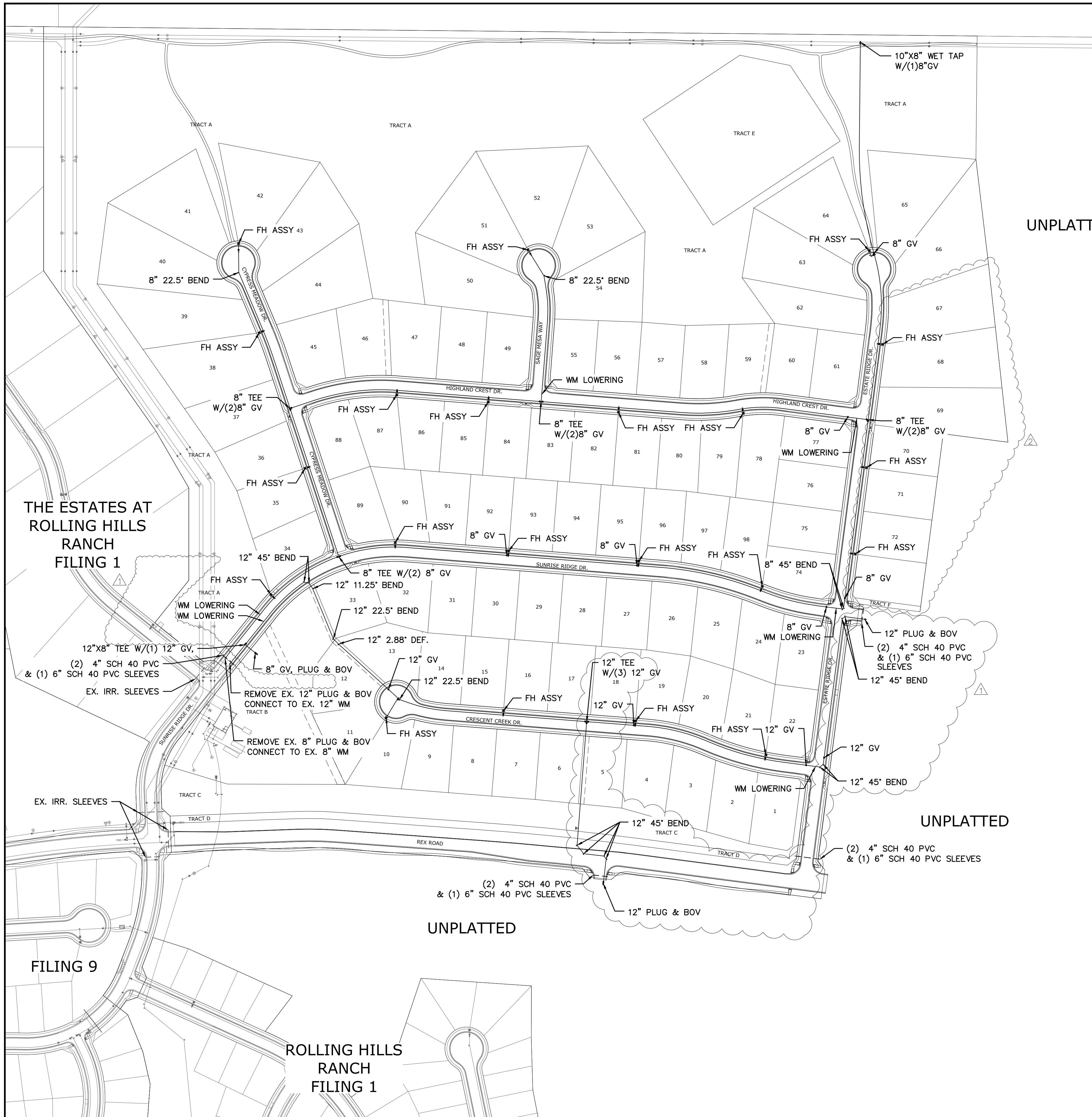
DISPERSION PIT DETAIL

AREA 10, TOTAL OF 350-400 RESIDENTIAL HOMES SCALE : N.T.S.

AS-BUILT 06/11/2024

EPC 12/8/2021

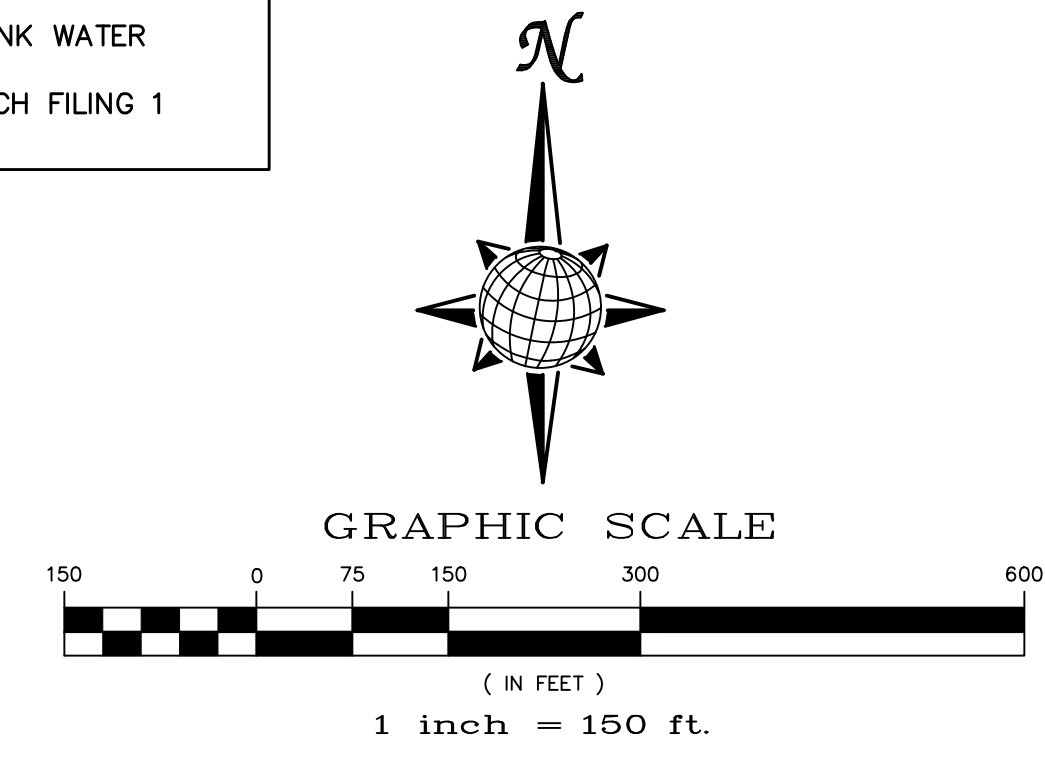
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Log	10/7/2021	REUSE BOUNDARY LOT LINES FOR 6773 ADD TRACT F				Date	
No.	1	TECH CONTRACTORS	11886 STAPLETON DRIVE	719.495.7444		Revisions	
No.	2	FALCON, CO 80831	TELEPHONE:	719.495.7444		No.	
No.	3		FAX:	719.495.2457			
Scale		AS SHOWN		29 of 44		Date	
Drawn by		LOG		Checked by		TAK	
Date		SEPT 2020		Date			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS		UNDERDRAIN DETAILS		MERIDIAN RANCH		APPROVED PROFESSIONAL ENGINEER	



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1)ESTATES FILING 2 AT MERIDIAN RANCH
 2)ESTATES FILING 3 AT MERIDIAN RANCH
 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
 4)MERIDIAN RANCH FILING 9
 5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
 7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
 8)ROLLING HILLS RANCH FILING 1

NOTE:
 8" WM UNLESS OTHERWISE LABELED.

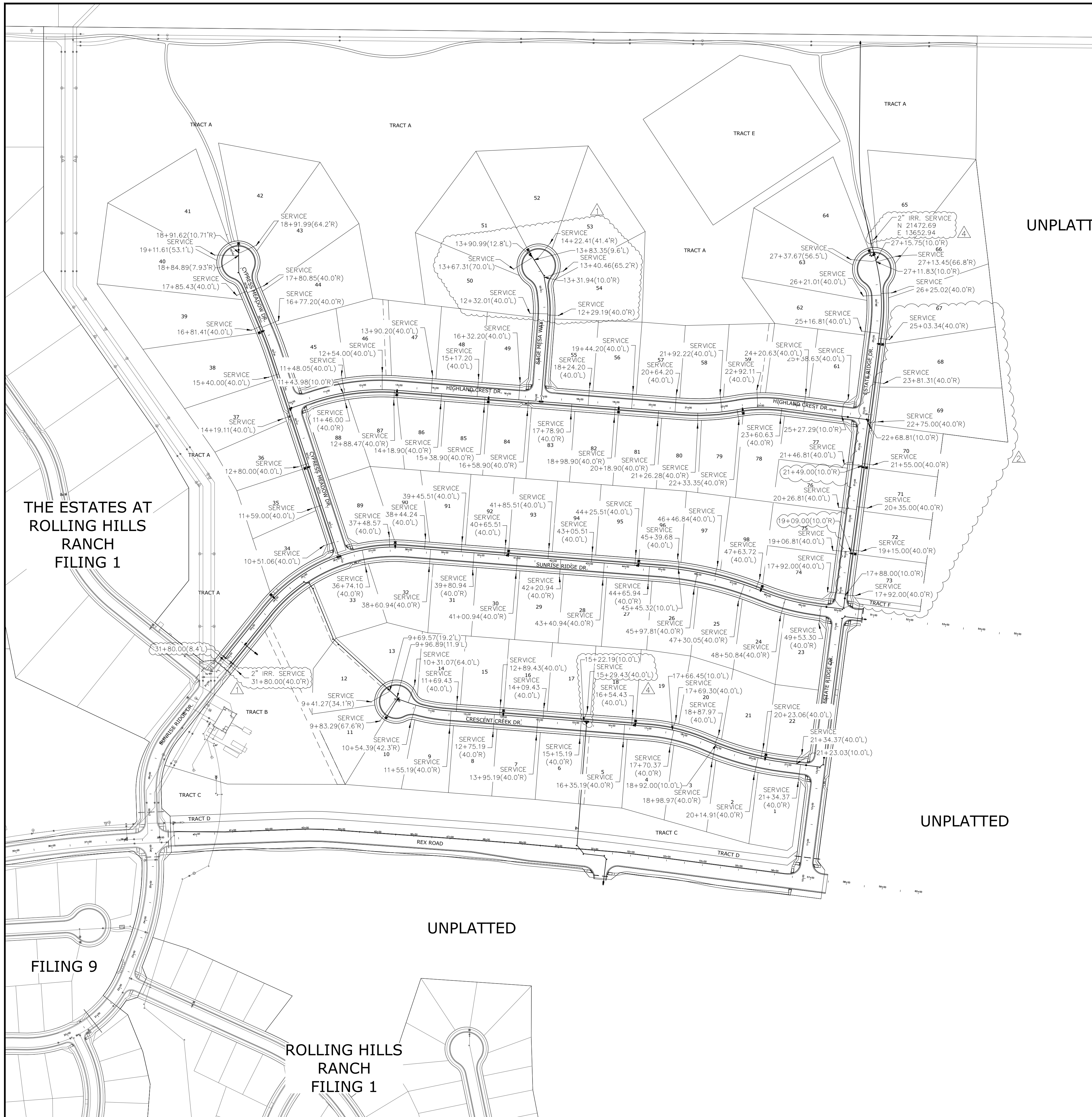
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 OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1987
 LIST OF UTILITIES CONTACTS
 (SEE COVER FOR LIST OF UTILITY CONTACTS)



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

Log	Log	Date	Appr.
9/15/2021	10/7/2021		
LIGHT POLES SS SEREVENES WATER SERVICES REX ROAD & 12" WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)			
REUSE BOUNDARY LOT LINES FOR 6773, ADD TRACT F			
Revisions			
No.	Date		
1			
2			
3			
TECH CONTRACTORS DRIVE 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL WATER			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	SEPT 2020
	30 of 44		
AS-BUILT 06/11/2024			
EPC 12/8/2021			

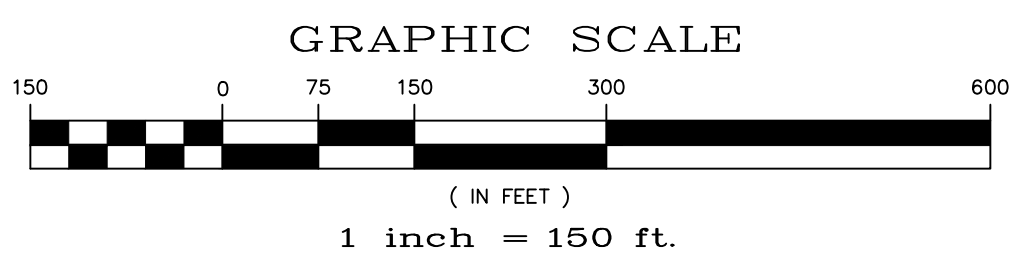
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NOTE:
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 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
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 6)MSD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
 7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
 8)ROLLING HILLS RANCH FILING 1

NOTE:
 1" WATER SERVICE UNLESS OTHERWISE LABELED.

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



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

THE ESTATES AT
 ROLLING HILLS
 RANCH
 FILING 1

FILING 9

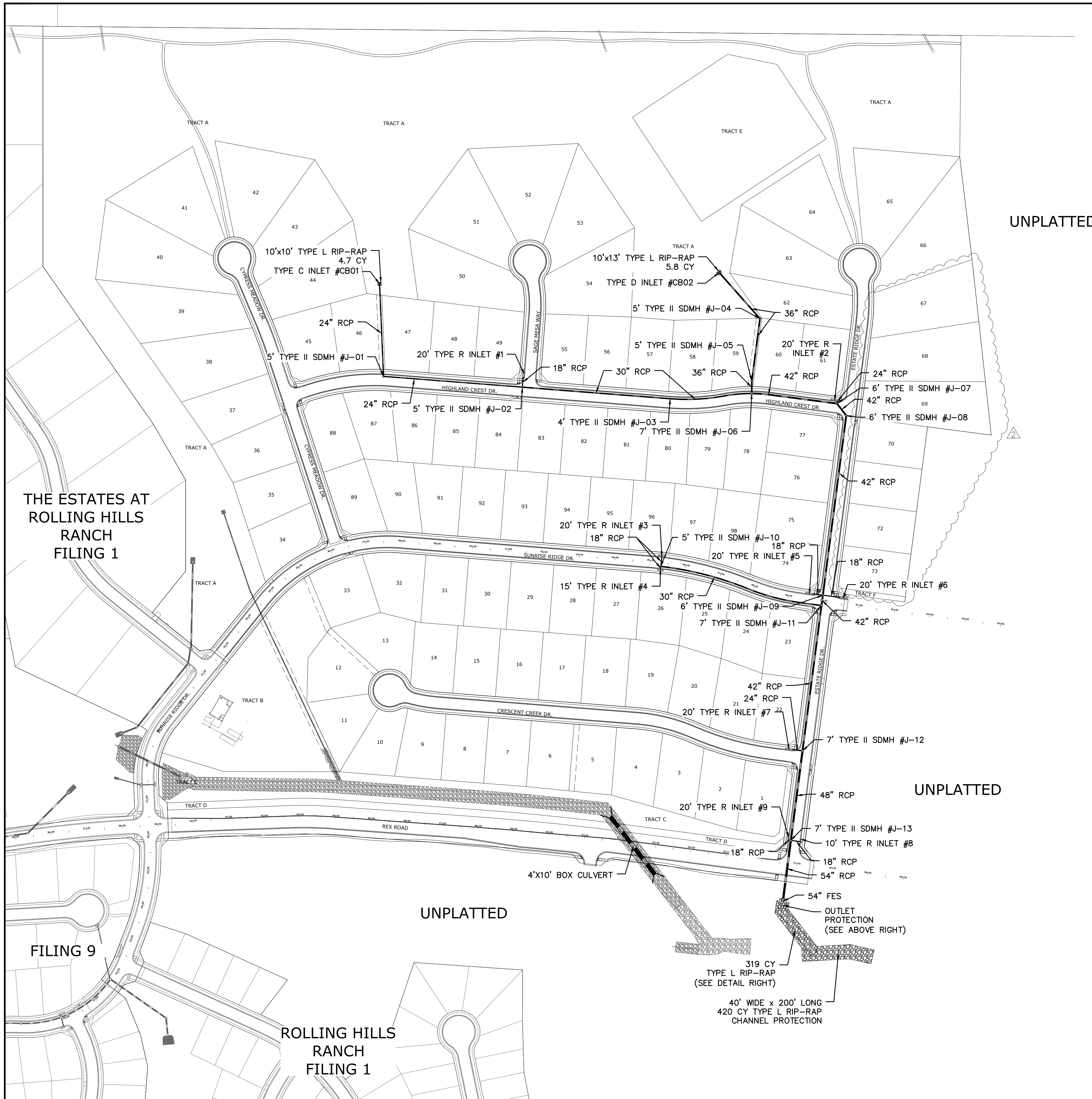
ROLLING HILLS
 RANCH
 FILING 1

Log	9/15/2021	Date	9/15/2021
Log	10/7/2021	Date	10/7/2021
Revisions	No.	Appr.	Date
1			
2			
3			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL WATER SERVICES			
Drawn by	LOG	Checked by	TAK
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	31	of	44
AS-BUILT 06/11/2024			

AS-BUILT
 06/11/2024

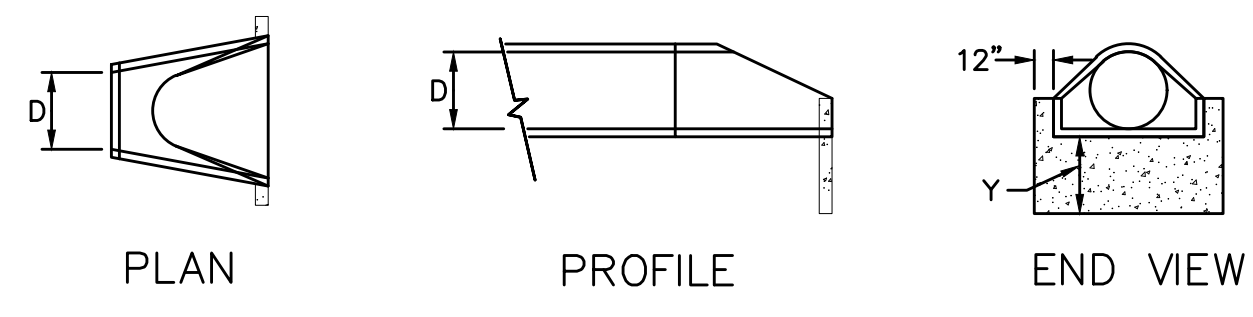
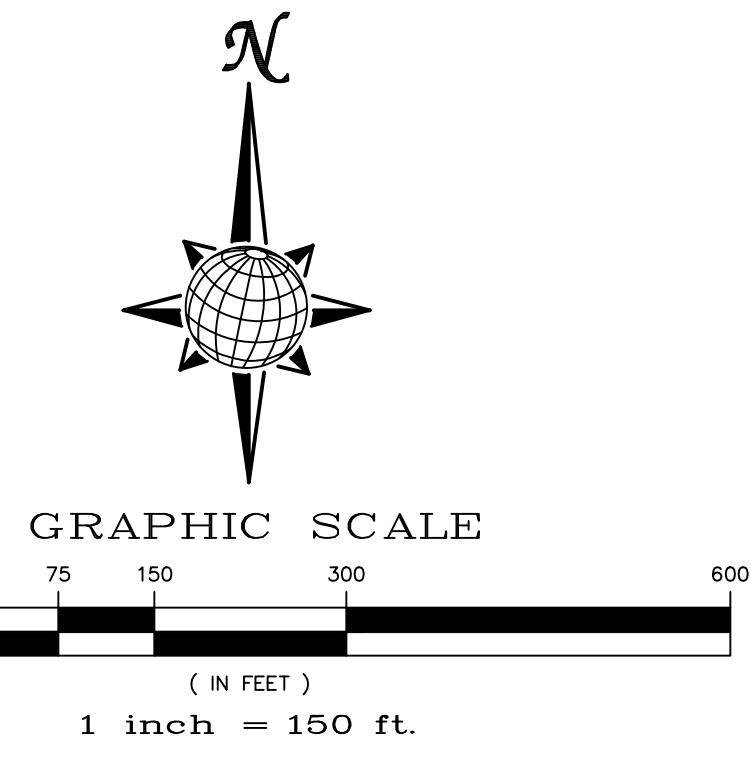
EPC 12/8/2021

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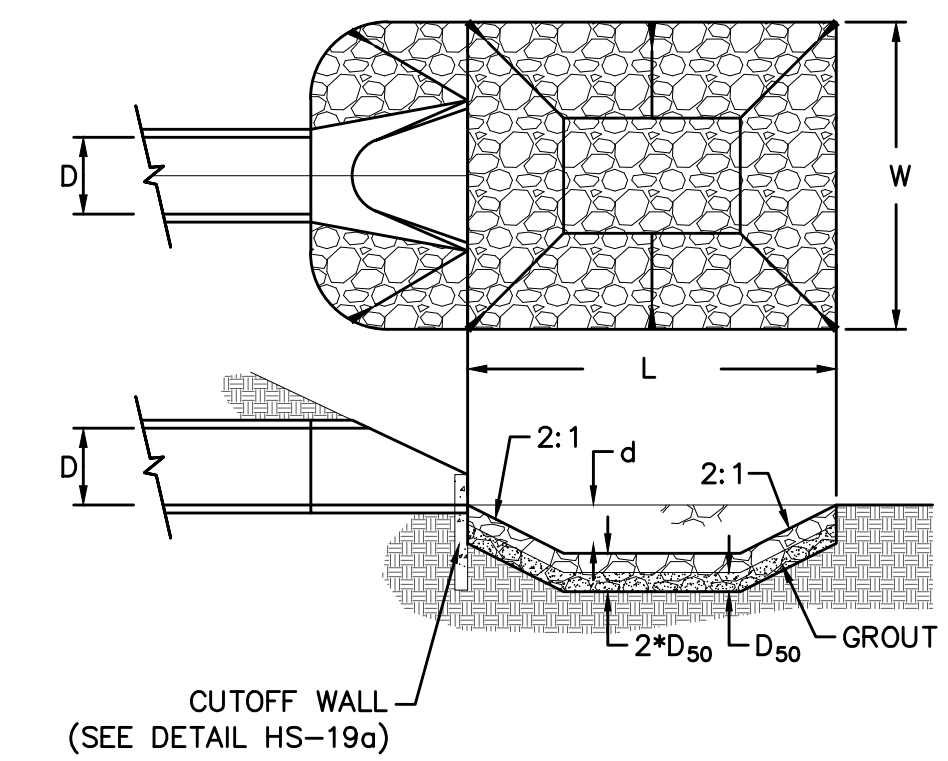


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 8)ROLLING HILLS RANCH FILING 1

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

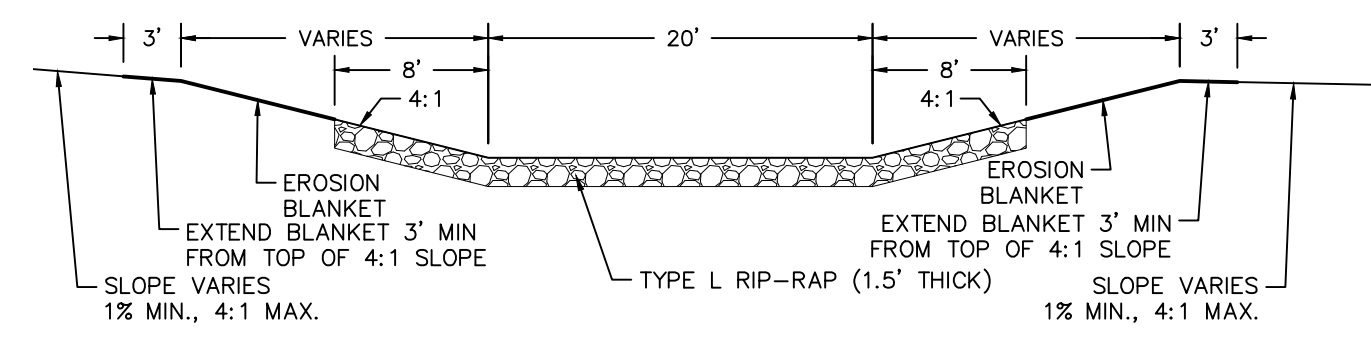


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED*)
 Figure HS-19. Culvert and Outlet Erosion Protection
 *RIP RAP RECTANGULAR POOL

- NOTES:**
1. Headwall with wingwalls or flared end section required at all culvert outlets.
 2. Provide joint fasteners for flared end sections.
 3. Grout the lower half of the rip-rap to a depth equal to D_{50} .

STORM #1
 OUTLET PROTECTION DETAIL
 NTS

PIPE OUTLET	L	W	d	TYPE	D ₅₀	CY	Y	NOTES
STORM #1 54"	20.0	20.0	2.25	M	1.0'	37.3	4.0'	SEE ABOVE



CHANNEL RIP-RAP
 CROSS SECTION
 NTS

AS-BUILT
 06/11/2024

Log	Log	Date	Appr.
9/15/2021	10/7/2021		
LIGHT POLES SS SEREVINES WATER SERVICES REX ROAD & 12' WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38) REUSE BOUNDARY LOT LINES FOR 6773, ADD TRACT F			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL STORM DRAIN			
Drawn by	Checked by	Date	
LOG	TAK	SEPT 2020	
Scale	32 of 44		
AS SHOWN			
EPC 12/8/2021 PCD PROJECT NO. SF-20-018			

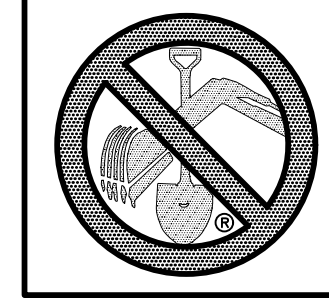
EL PASO COUNTY STANDARD NOTES:

- 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 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 LOOSENED 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 5, 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 REPORT FOR THIS SITE HAS 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

EARTHWORK QUANTITIES

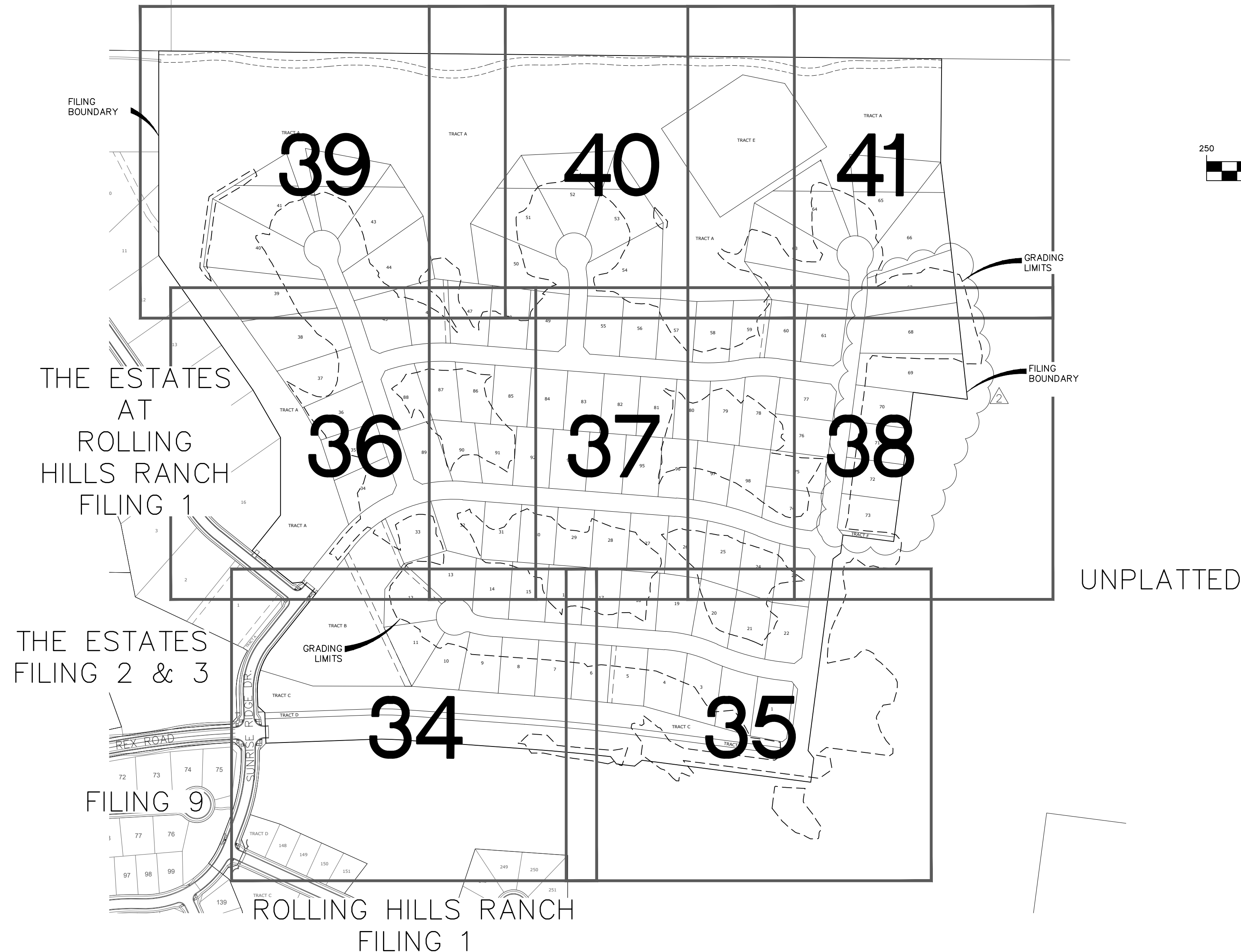
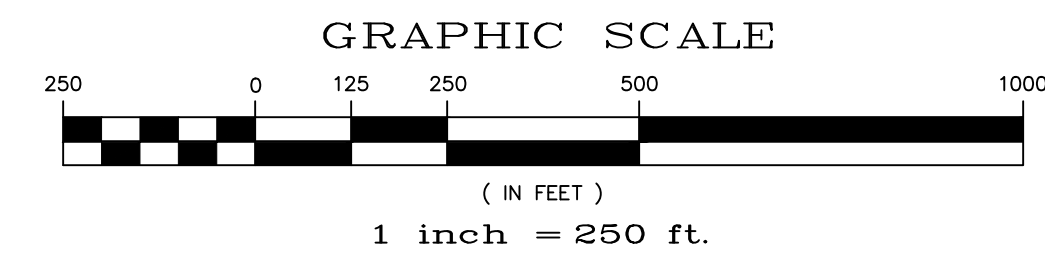
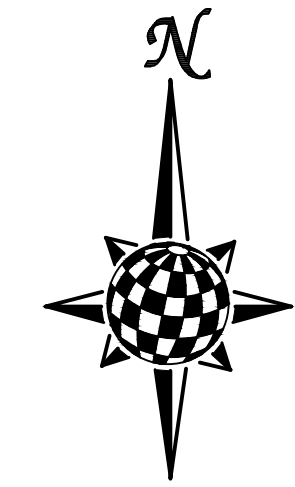
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	88,100 CY	88,100 CY
20% COMPACTION FACTOR		



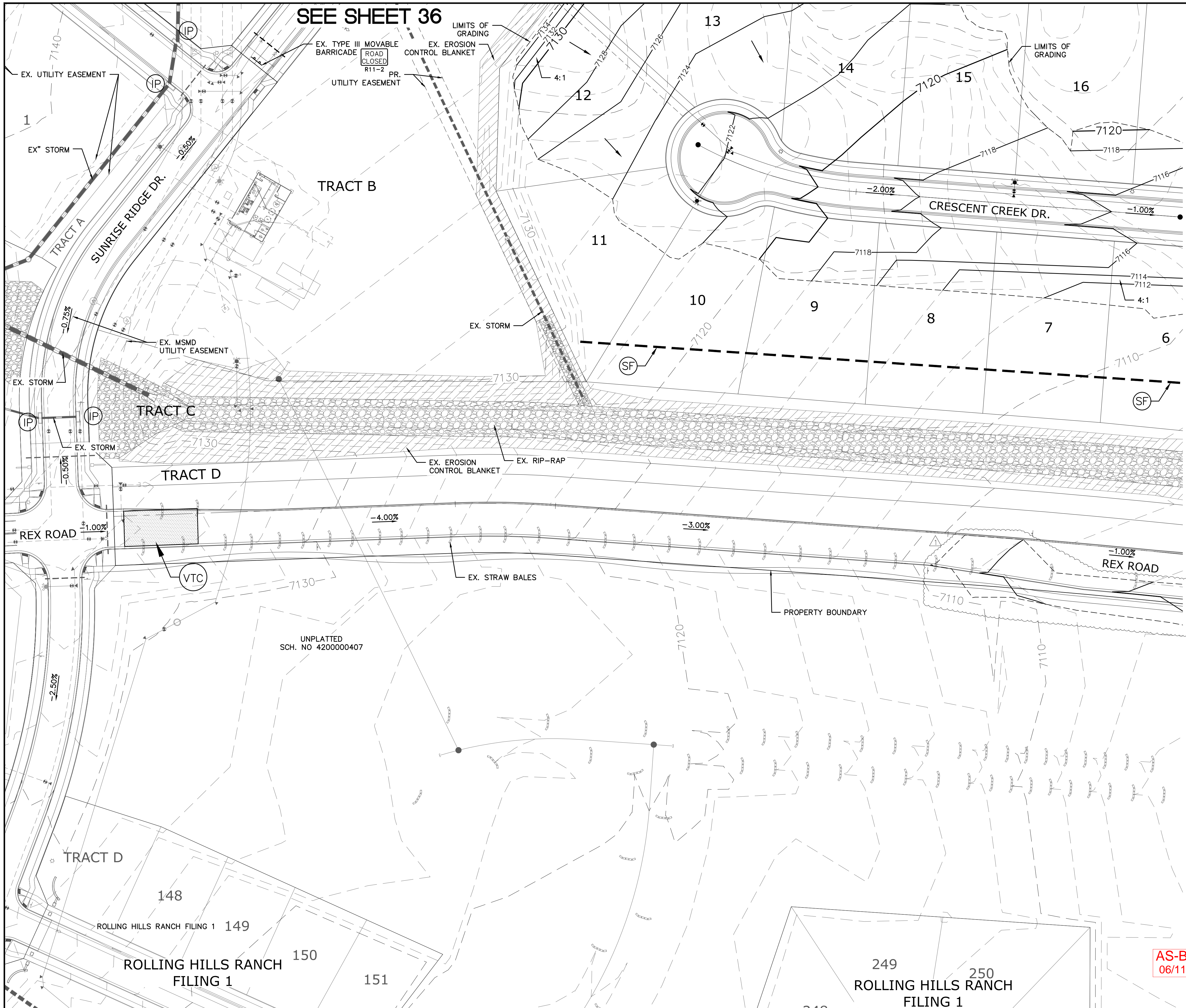
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

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-SEEDDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDDED WITH THE APPROVED COUNTY SEED MIX.
- MATERIAL STORAGE, TOPSOIL STOCKPILES(UDFCD: MM-2), STAGEING (UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY. IDENTIFICATION SHALL BE LOCATED IN THE SWMP AS WELL AS ANY DETAILS 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.

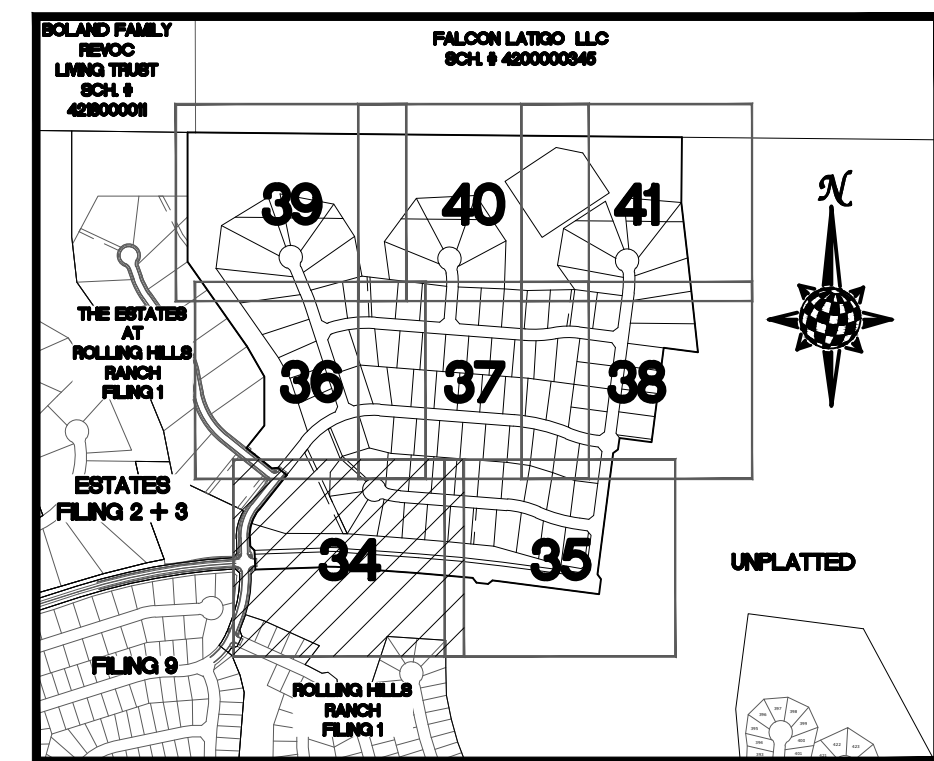


Log	LOG	Date	Appr.
9/15/2021			
10/7/2021			
LIGHT POLES SS SEREVINES WATER SERVICES REX ROAD & 127th (SH 1,2,6,7,8,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,35,36,38)		RE-USE BOUNDARY; LOT LINES FOR 67-73; ADD TRACT F	
No.	Revisions	Date	Appr.
1			
2			
3			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING INDEX SHEET			
Scale	AS SHOWN	33 of 44	
Drawn by	LOG	Checked by	TAK
		Date	SEPT 2020
<p>AS-BUILT 06/11/2024</p> <p>EPC 12/8/2021</p>			



SEE SHEET 36

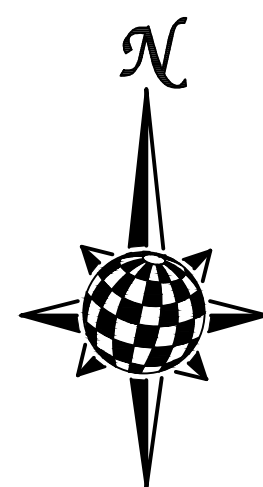
SEE SHEET 35



INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET 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 44
		PROPERTY BOUNDARY/CONSTRUCTION BOUNDARY
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
		LOT NUMBER



GRAPHIC SCALE

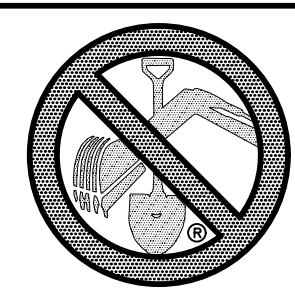


(IN FEET)
1 inch = 50 ft.

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 43.

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)ESTATES FILING 2 AT MERIDIAN RANCH
2)ESTATES FILING 3 AT MERIDIAN RANCH
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
4)MERIDIAN RANCH FILING 9
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

AS-BUILT
06/11/2024



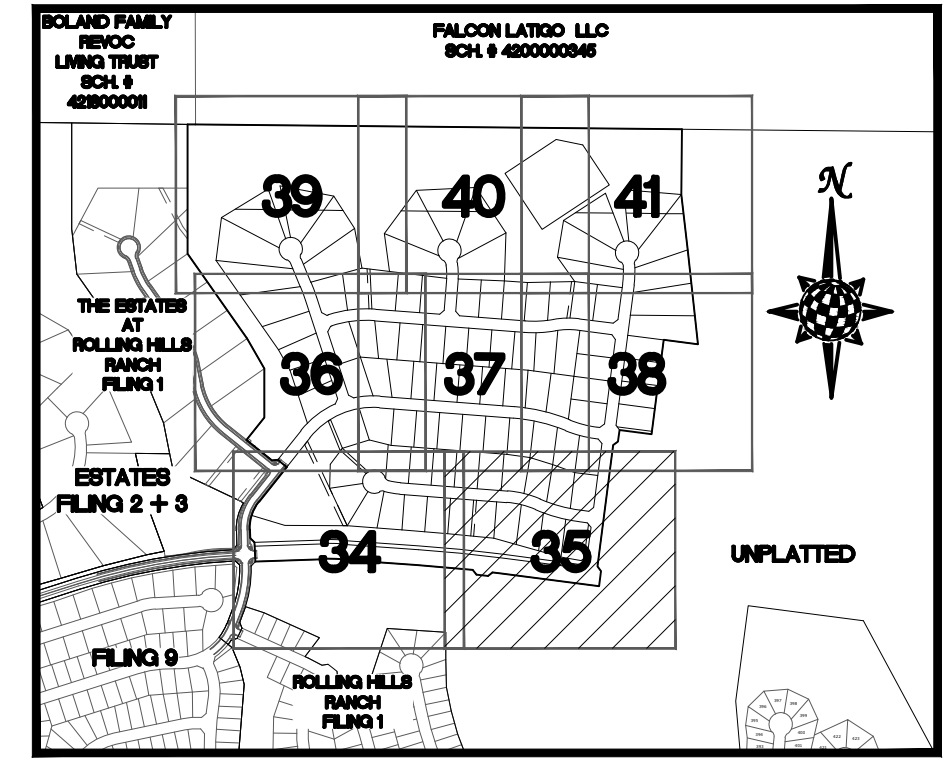
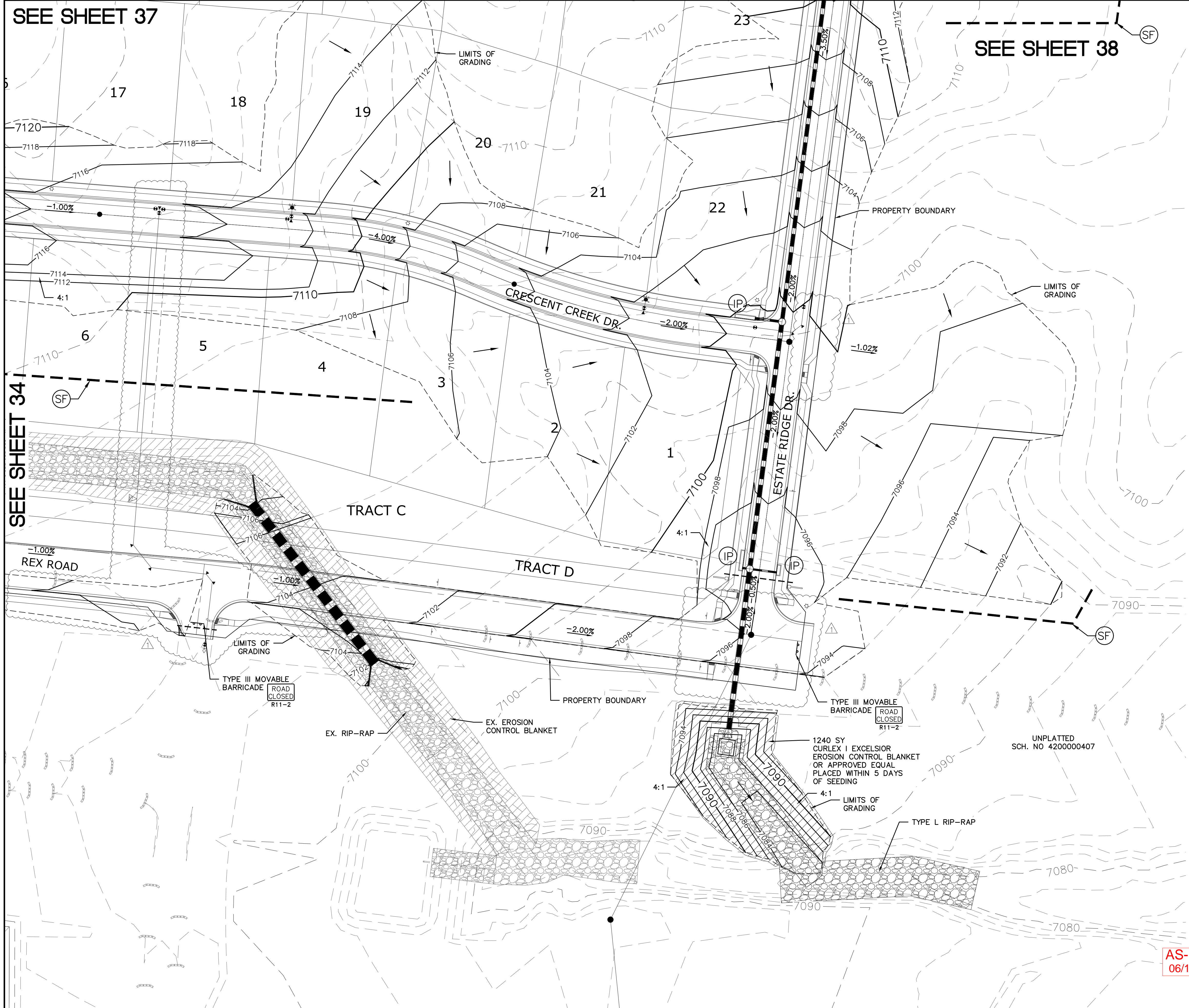
TWO WORKING DAYS
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OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

EPC
12/8/2021

Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	SEPT 2020
34 of 44			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
Log	Log	Date	Appr.
9/15/2021	10/7/2021		
LIGHT POLES SS SEREVITIES WATER SERVICES REX ROAD & 12' WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38) REUSE BOUNDARY, LOT LINES FOR 6773, ADD TRACT F			
No.	Revisions	Date	Appr.
1			

SEE SHEET 37

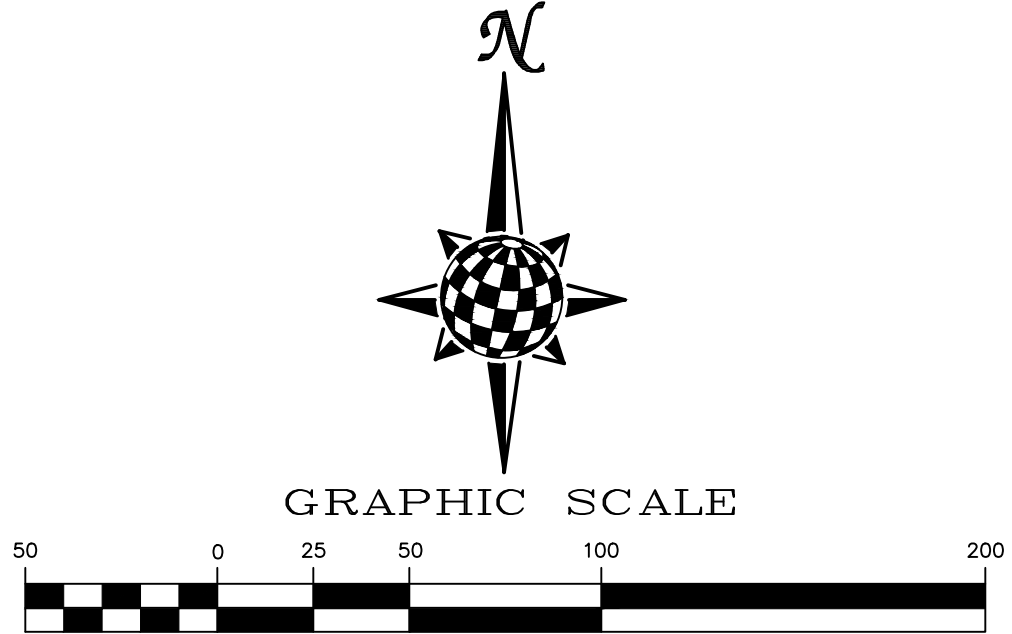
SEE SHEET 38



INDEX MAP N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION WATTLES PER DETAIL SHEET 44
[Symbol]		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
[Symbol]	RCP	REINFORCED CONCRETE PIPE
[Symbol]	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
[Symbol]	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
[Symbol]	IP	INLET PROTECTION PER DETAIL SHEET 44
[Symbol]		PROPERTY BOUNDARY/CONSTRUCTION BOUNDARY
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')
[Symbol]		PROPOSED CONTOUR (10')
[Symbol]		PROPOSED CONTOUR (2')
[Symbol]		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
[Symbol]		FLOW DIRECTION
[Symbol]		GRADE
[Symbol]		LOT NUMBER



NOTE:
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7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

AS-BUILT
06/11/2024

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

Log	Date	Instr.	Appr.	Date
9/15/2021				
10/7/2021				

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE:
719.495.7444
FAX:
719.495.2457



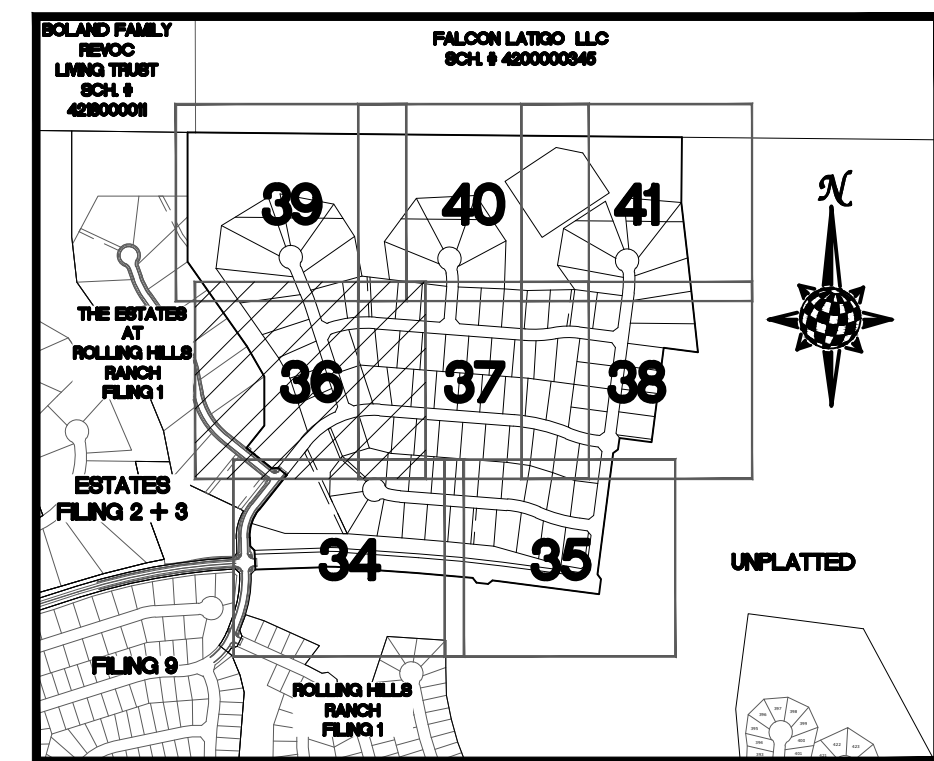
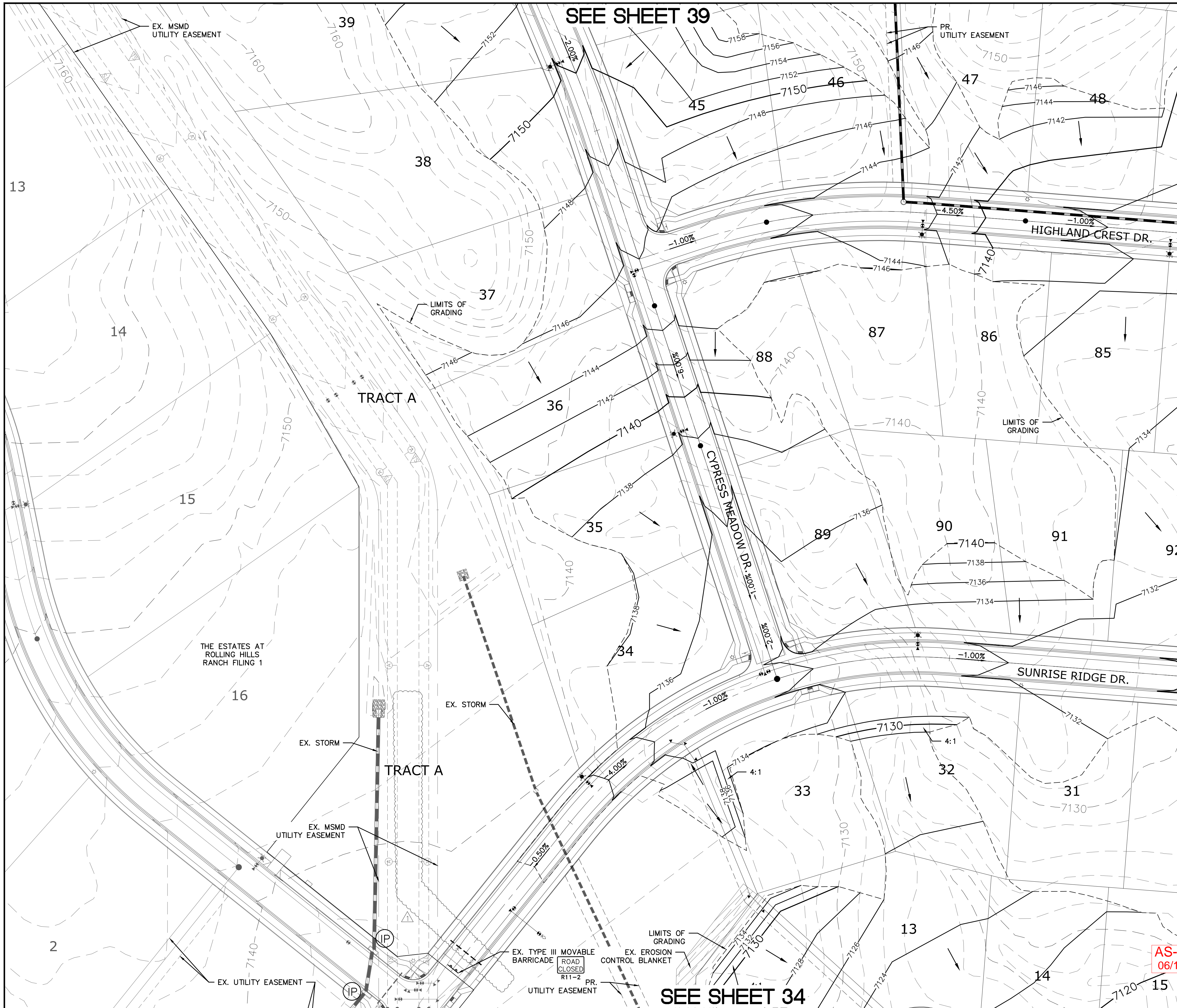
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT

Drawn by	LOG	Checked by	TKM	Date	SEPT 2020
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Scale
AS SHOWN
35 of 44



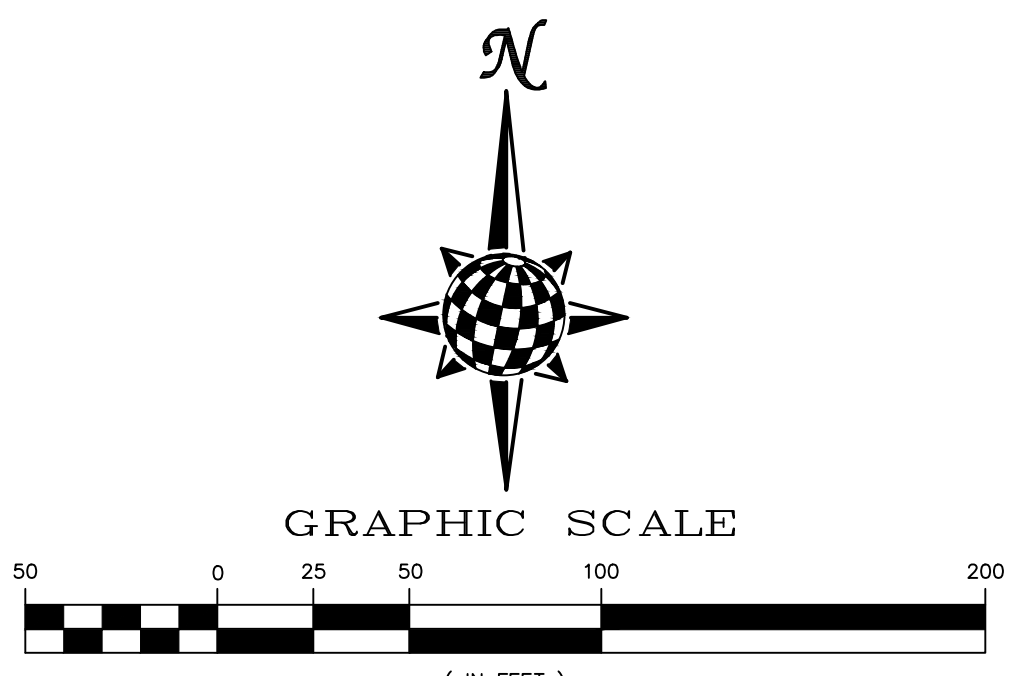
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INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 44
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		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
		LOT NUMBER



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7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

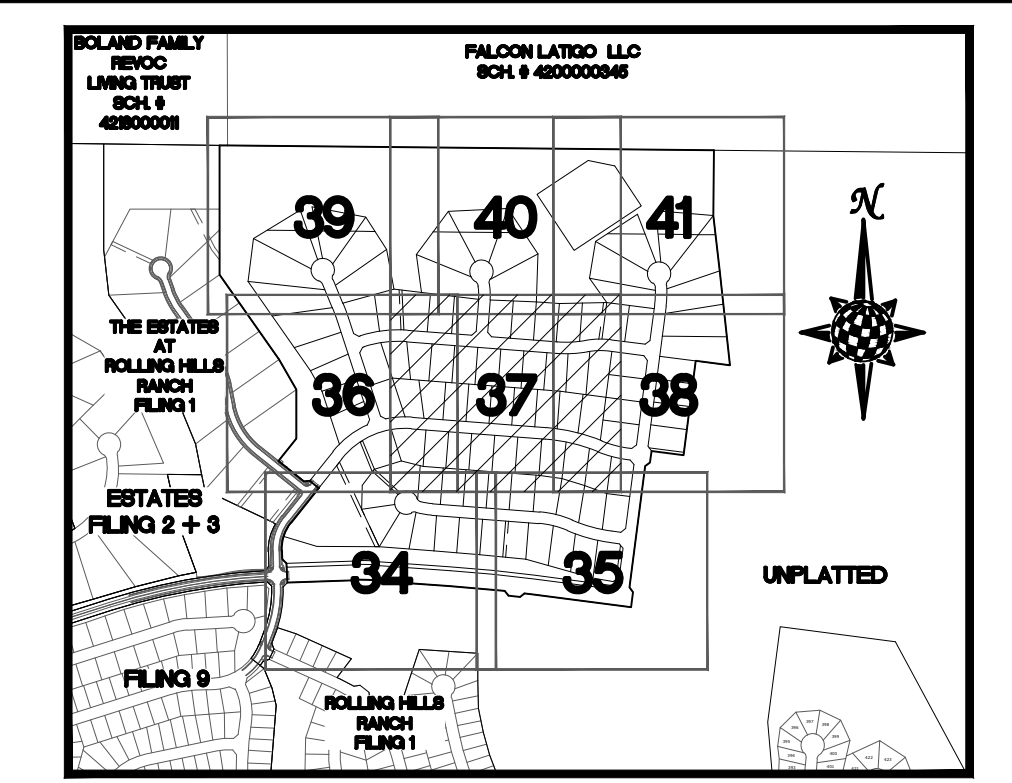
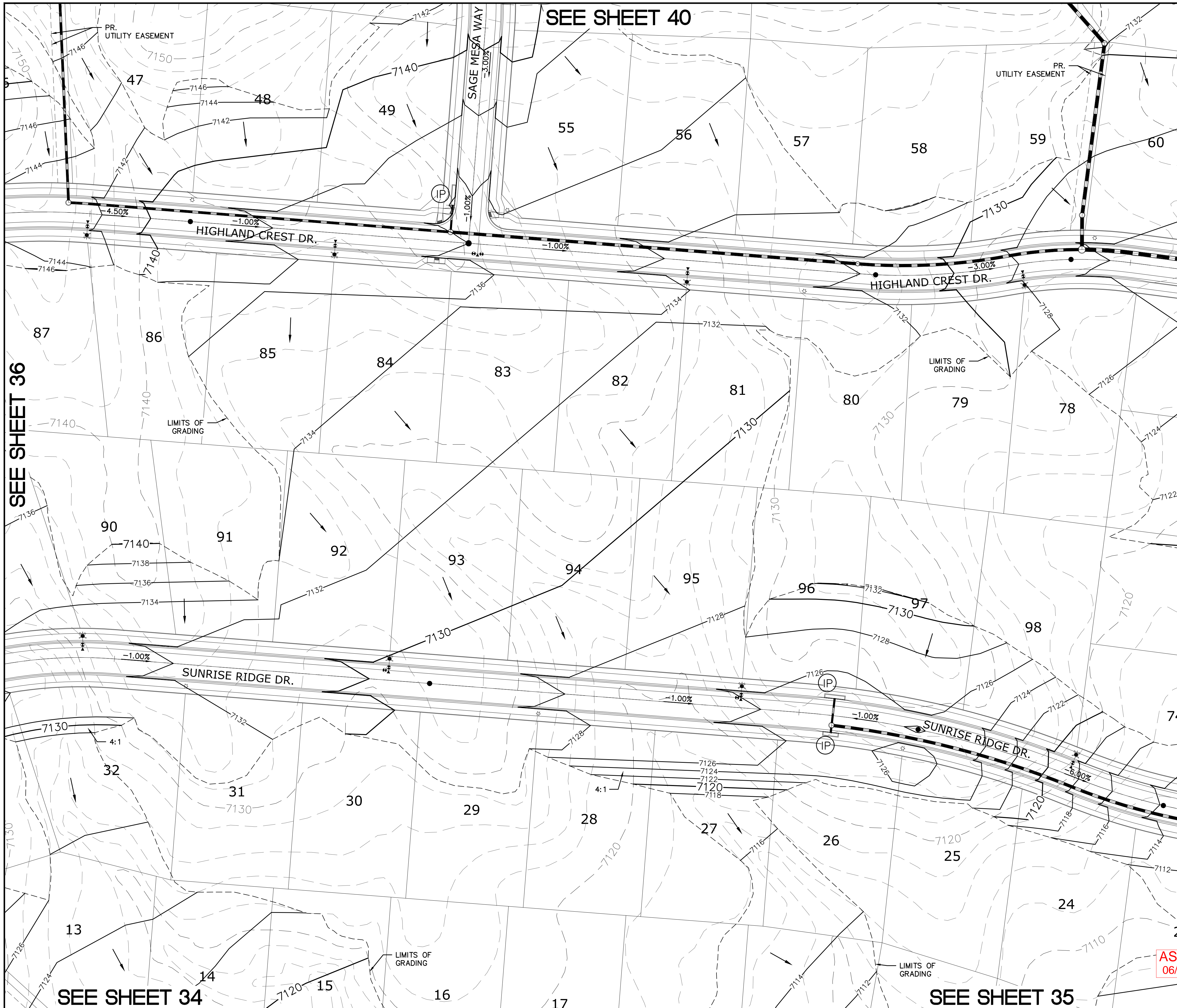
AS-BUILT
06/11/2024

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(SEE COVER FOR LIST OF UTILITY CONTACTS)

Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	SEPT 2020
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Log	Date	Revis.	Appr.
9/15/2021			
10/7/2021			

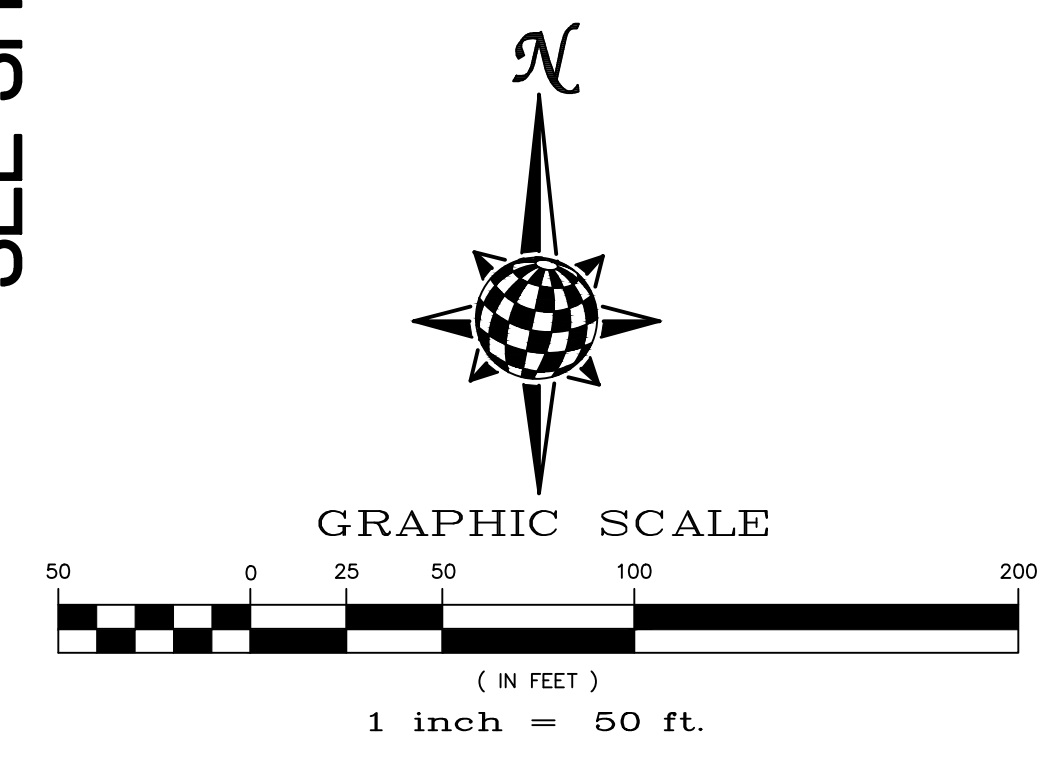
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457
MERIDIAN RANCH
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT



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LEGEND

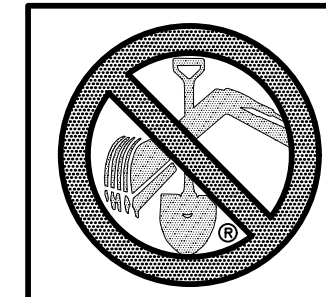
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DOM VOL. 2
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		FLOW DIRECTION
		GRADE
		LOT NUMBER



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8)ROLLING HILLS RANCH FILING 1

AS-BUILT
06/11/2024

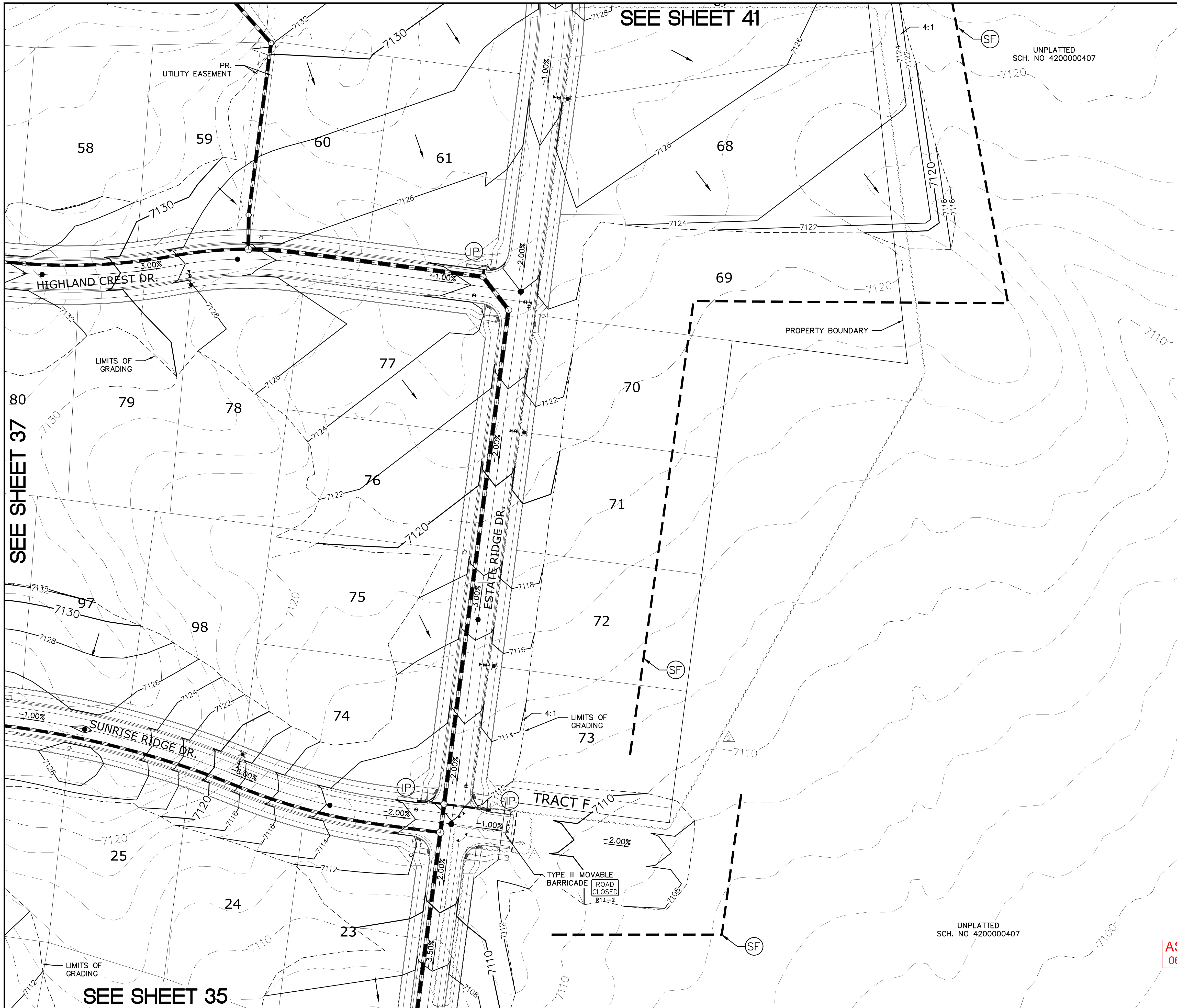


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(SEE COVER FOR LIST OF UTILITY CONTACTS)

EPC
12/8/2021

Scale		AS SHOWN		37 of 44	
Drawn by	LOG	Checked by	TAK	Date	SEPT 2020
TECH CONTRACTORS			11886 STAPLETON DRIVE		
FALCON, CO 80831			TELEPHONE: 719.495.7444		
FAX: 719.495.2457			Revisions		
No.		Date	Init.	Appr.	Date
1		9/15/2021			
2		10/7/2021			
3					

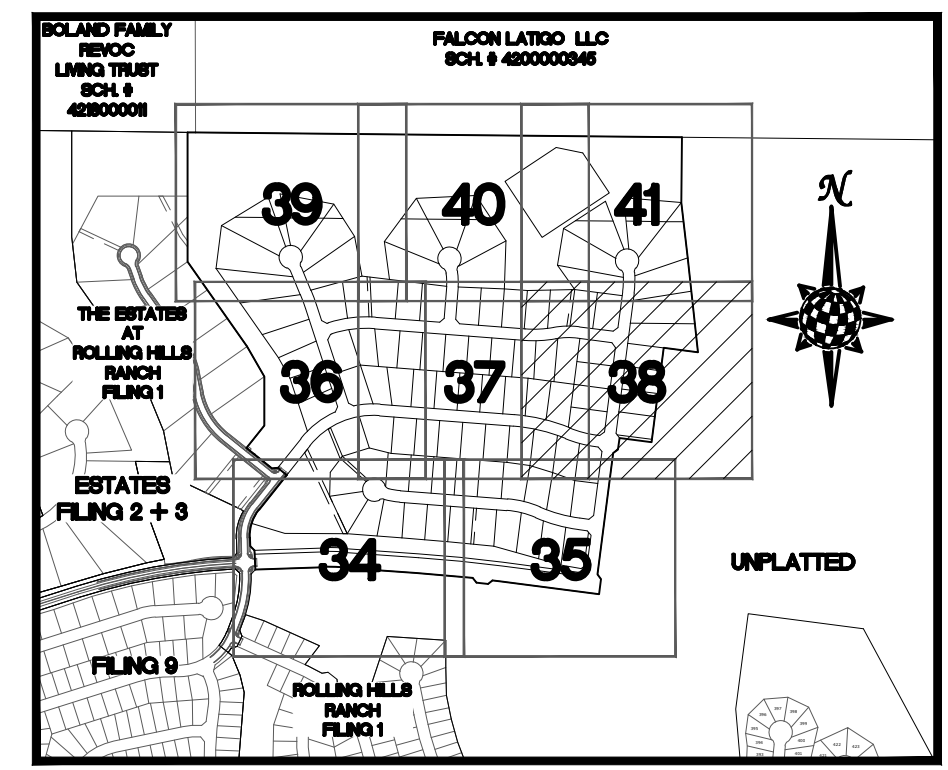




SEE SHEET 41

SEE SHEET 37

SEE SHEET 35



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N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	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 44
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		EXISTING CONTOUR (10')
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		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
		LOT NUMBER



GRAPHIC SCALE

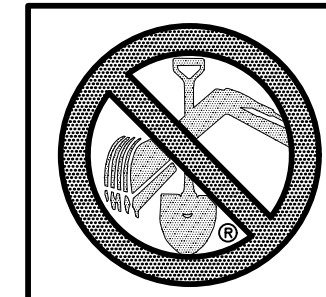


(IN FEET)
1 inch = 50 ft.

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7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

AS-BUILT
06/11/2024

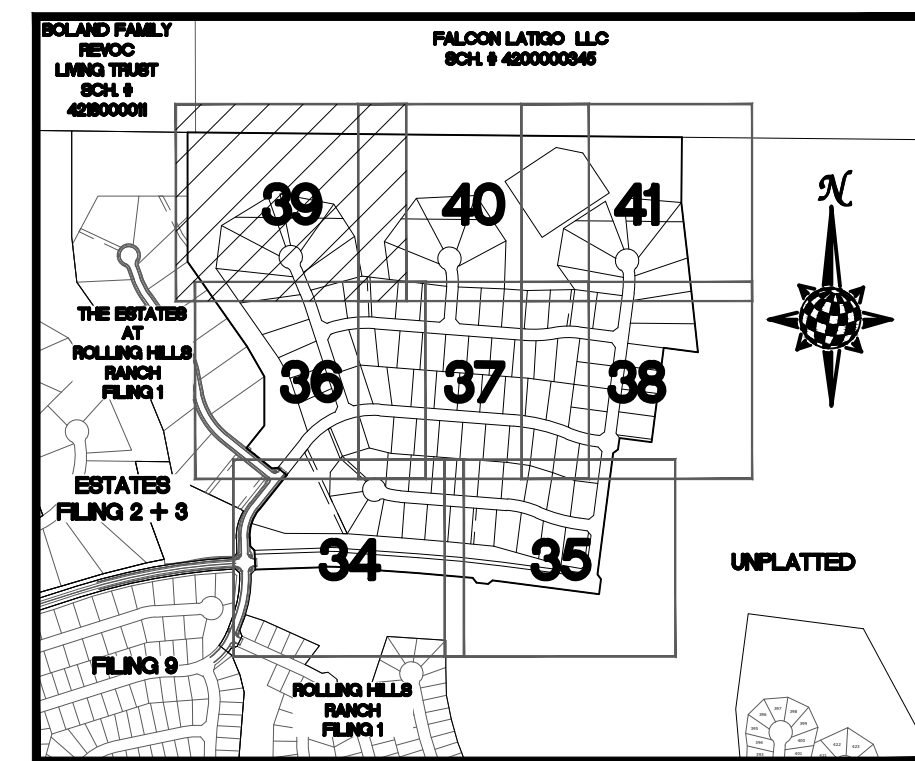
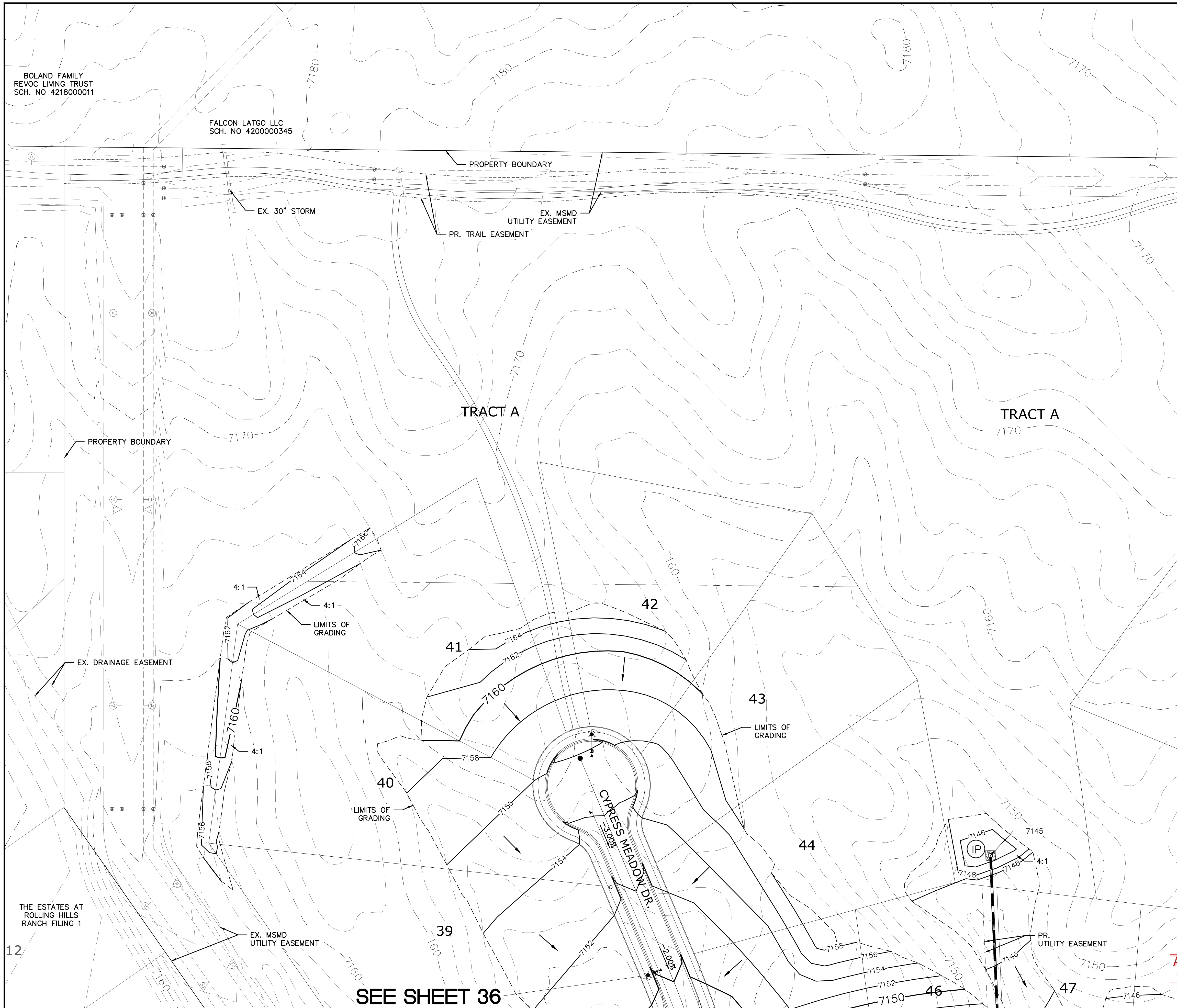


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12/8/2021

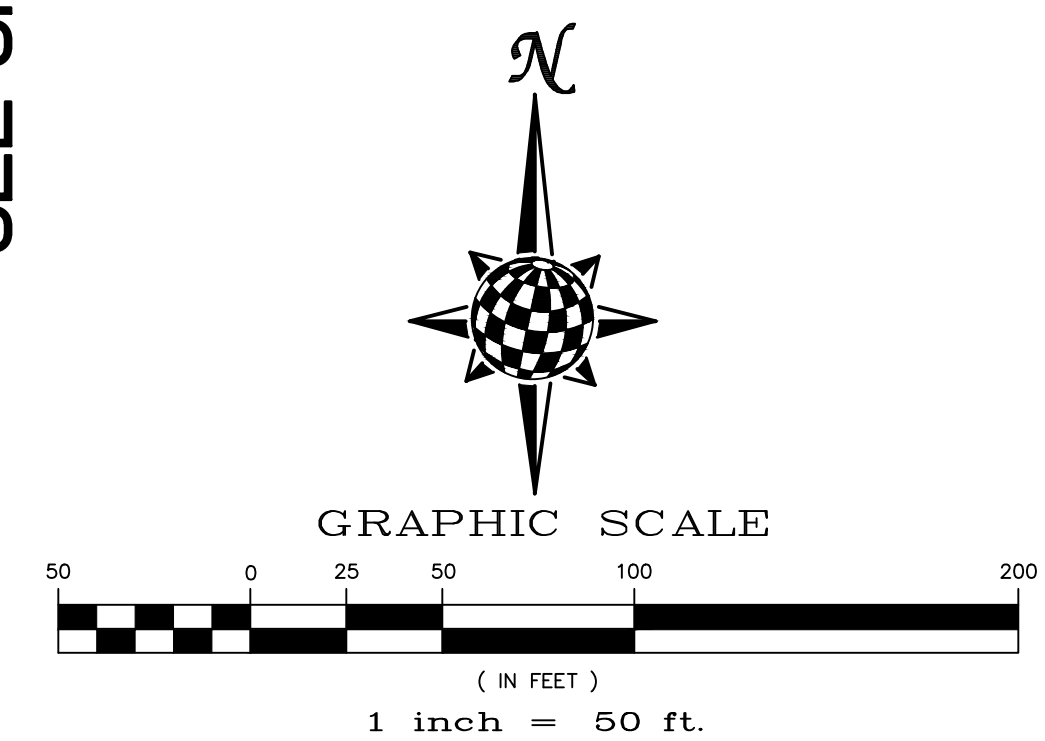
Log		Date	Appr.
9/15/2021	LOG	10/7/2021	
TECH CONTRACTORS		Revisions	
11886 STAPLETON DRIVE		No.	
FALCON, CO 80831			
TELEPHONE: 719.495.7444			
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THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT			
Drawn by	LOG	Checked by	TAK
AS SHOWN		Date	SEPT 2020
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LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	75	LOT NUMBER



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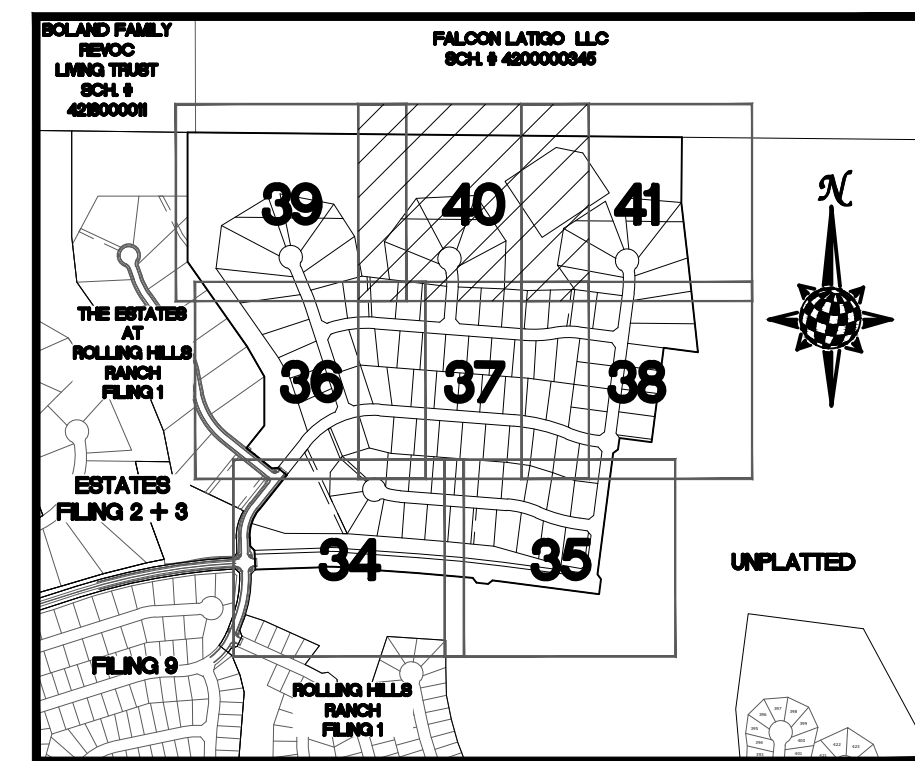
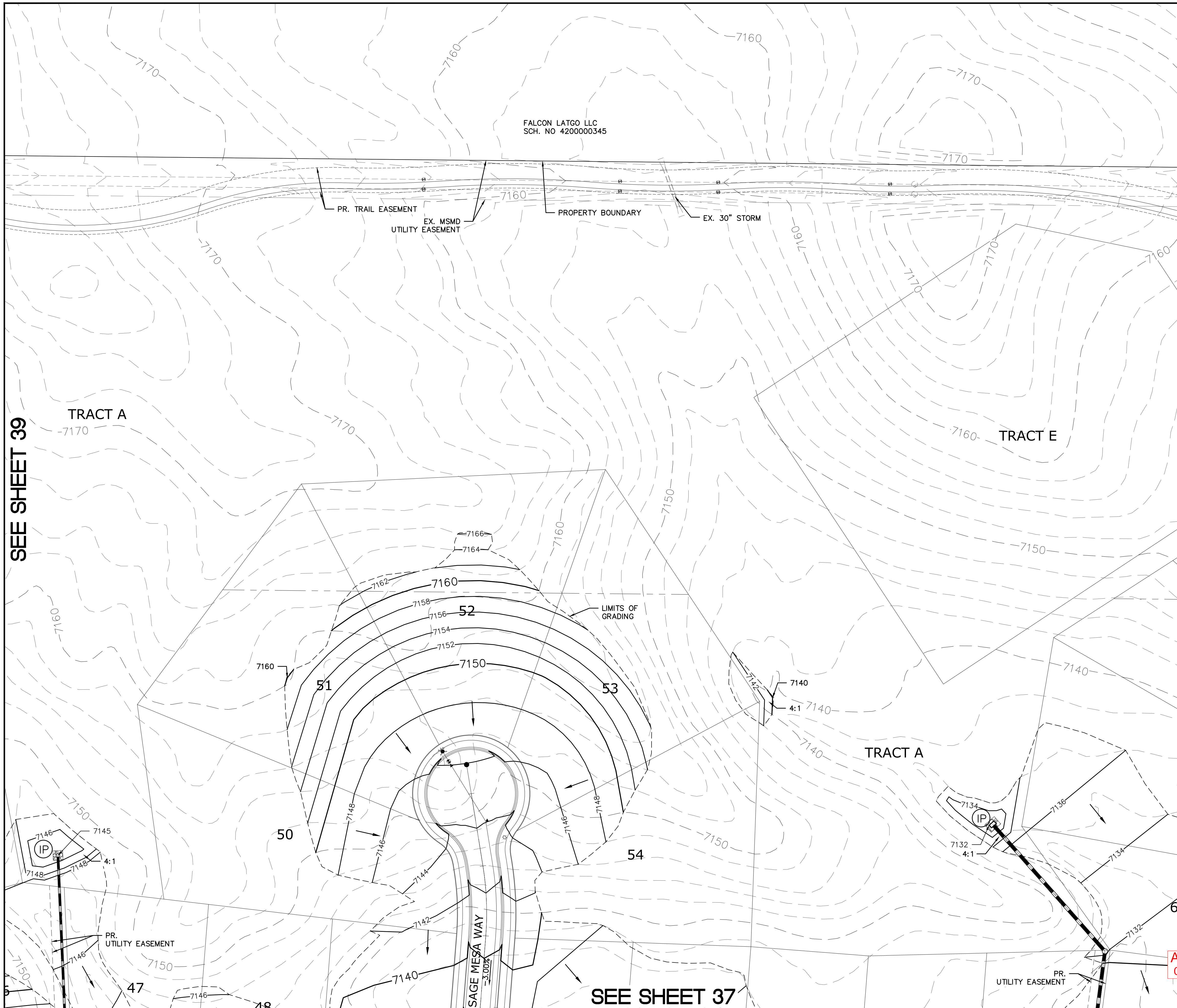
AS-BUILT
06/11/2024

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Log		Date	Appr.
9/15/2021	LOG	10/7/2021	
1		No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		Revisions	
MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	SEPT 2020
	39 of 44		
		EPC 12/8/2021	
		PCD PROJECT NO. SF-20-018	

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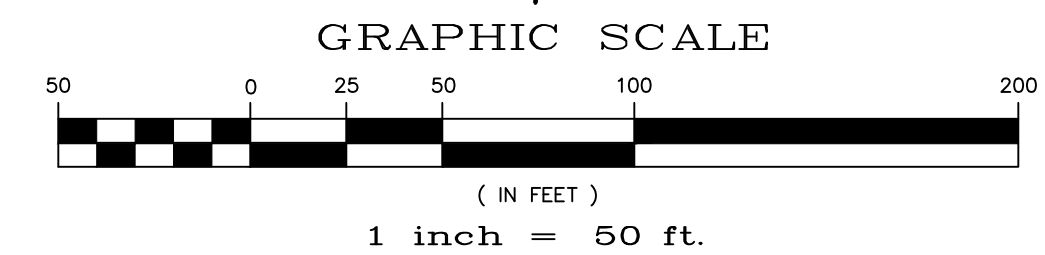
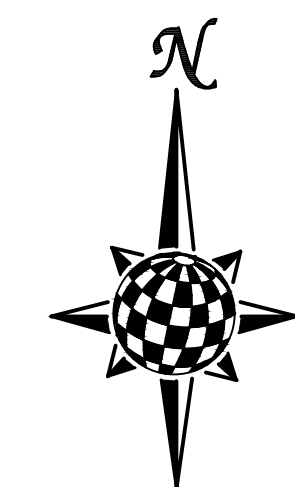
INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		EXISTING CONTOUR (2')
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		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	75	LOT NUMBER

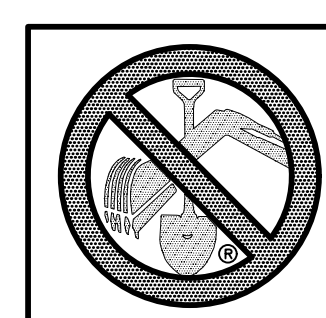
SEE SHEET 39

SEE SHEET 41



NOTE:
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1)ESTATES FILING 2 AT MERIDIAN RANCH
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3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
4)MERIDIAN RANCH FILING 9
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1



TWO WORKING DAYS
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OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTACTS)

AS-BUILT
06/11/2024

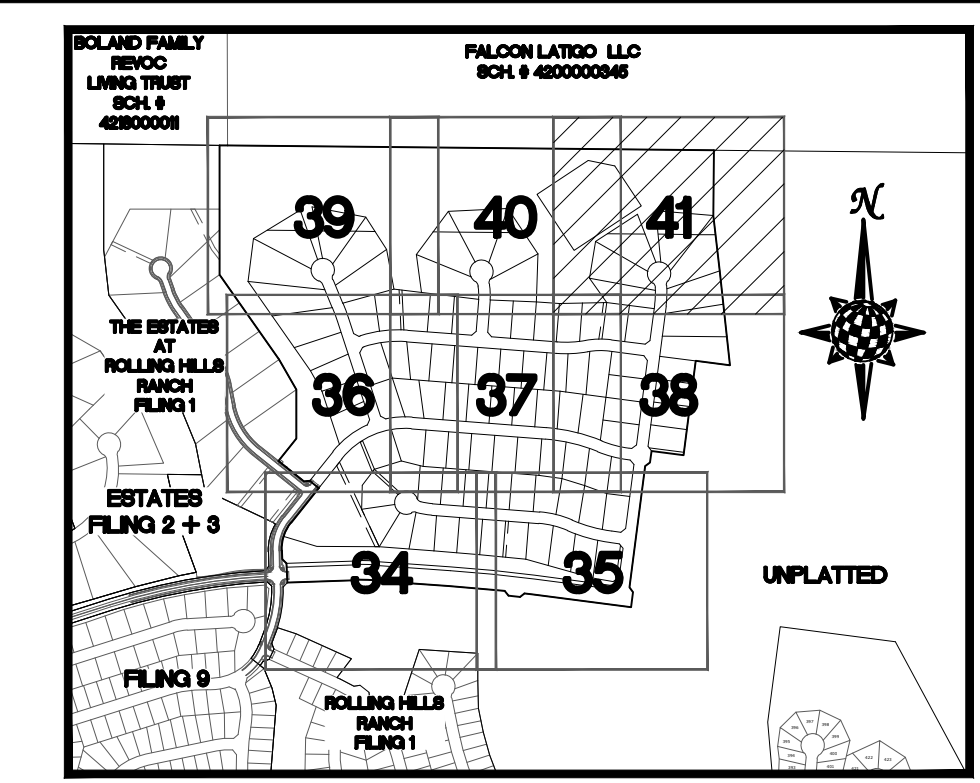
EPC
12/8/2021

Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				06/11/2024
Scale				40 of 44
GRADING LAYOUT				
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN				
MERIDIAN RANCH				
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
1		2	3	No.
9/15/2021		10/7/2021		Date
	LOG			Appr.
				Date

SEE SHEET 40



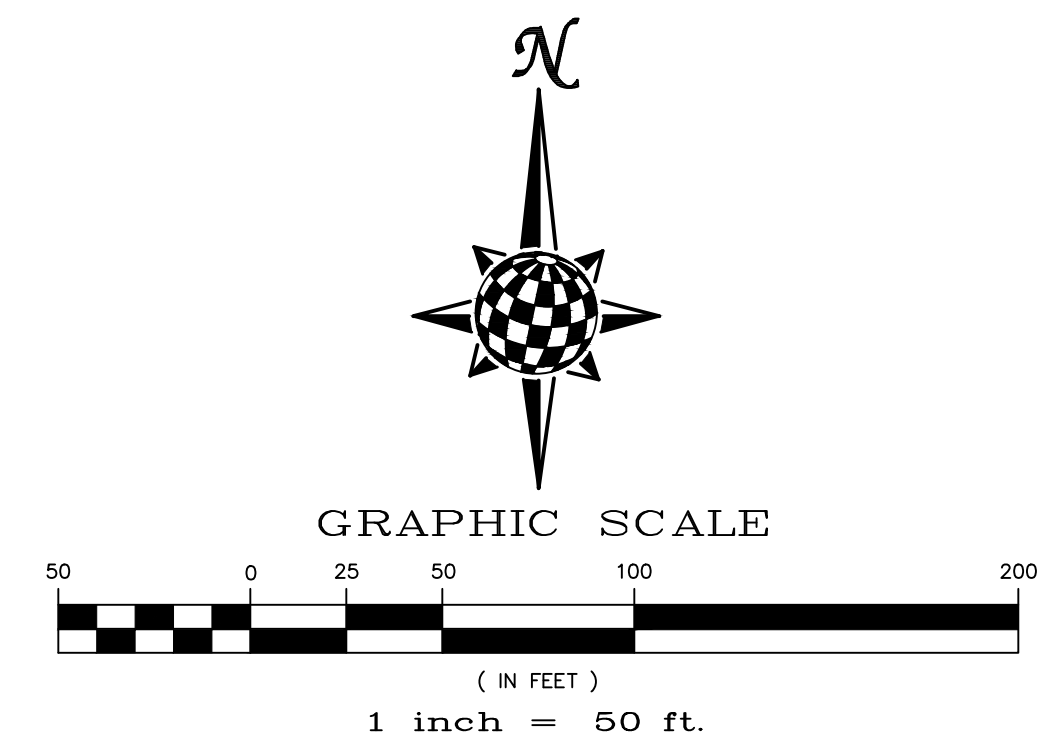
SEE SHEET 38



INDEX MAP N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET 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 44
		PROPERTY BOUNDARY/CONSTRUCTION BOUNDARY
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	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 43.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)ESTATES FILING 2 AT MERIDIAN RANCH
2)ESTATES FILING 3 AT MERIDIAN RANCH
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
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7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

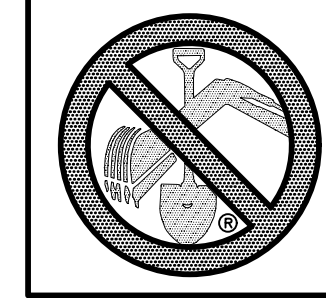
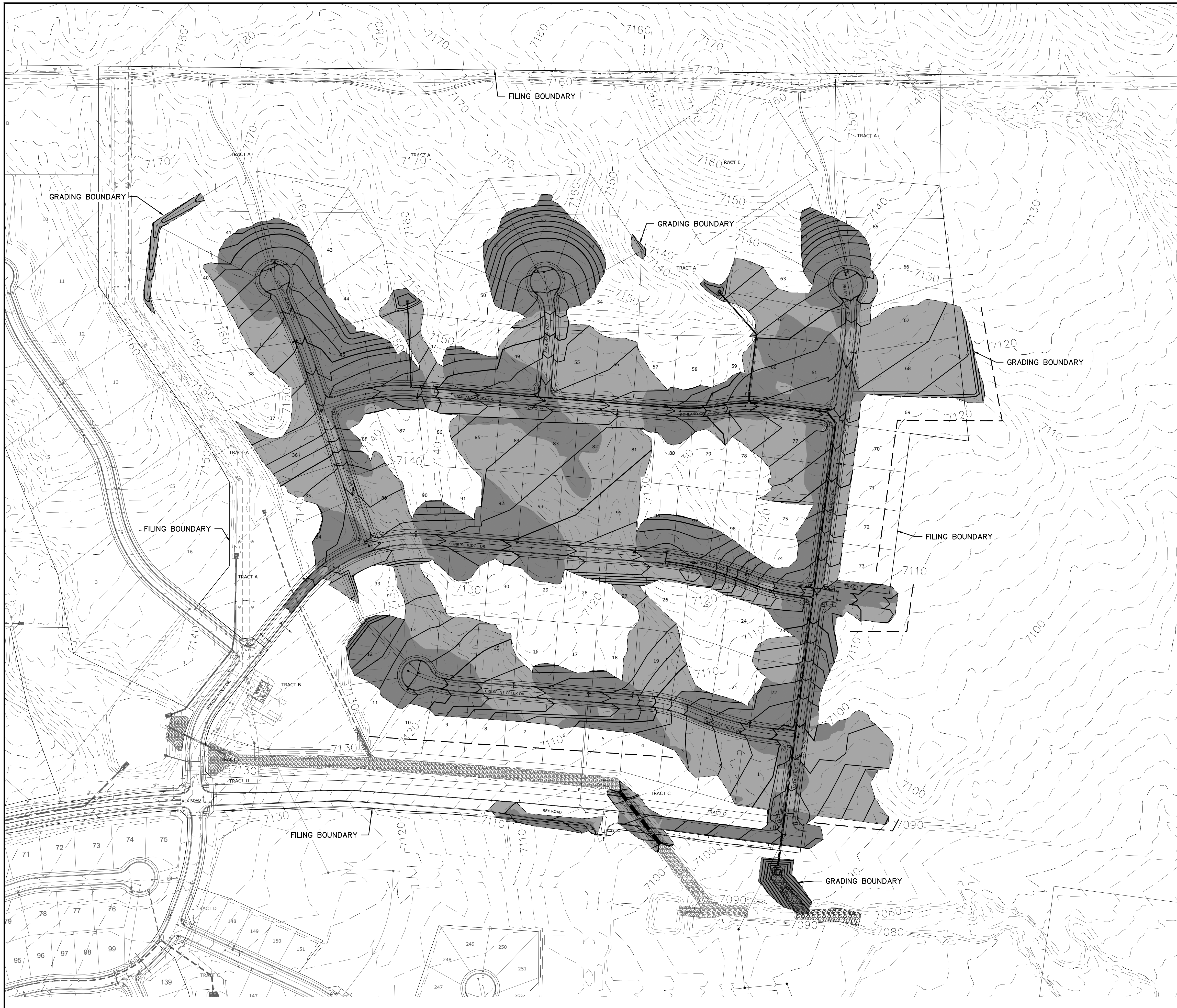
AS-BUILT
06/11/2024

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EPC
12/8/2021

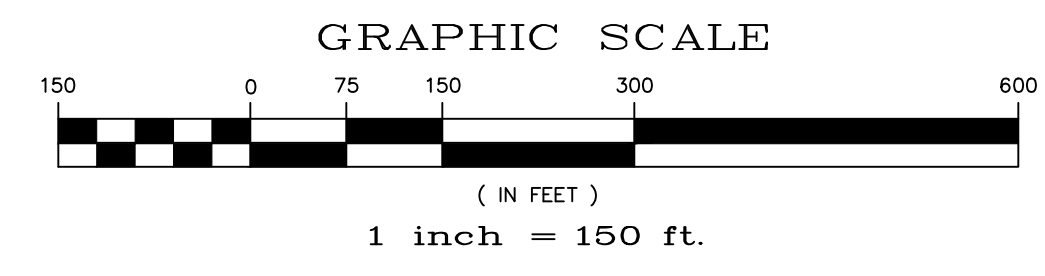
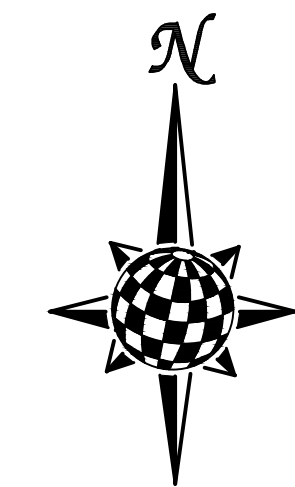
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REUSE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F			
1	2	3	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT			
Drawn by	LOG	Checked by	TAK
AS SHOWN		Date	SEPT 2020
Scale	41	of	44



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OR
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1-800-992-1987
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NOTE:
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
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8)ROLLING HILLS RANCH FILING 1



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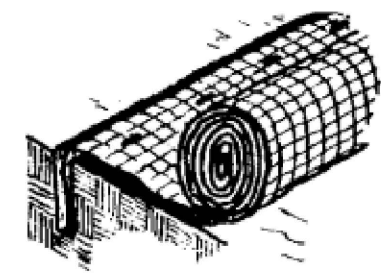
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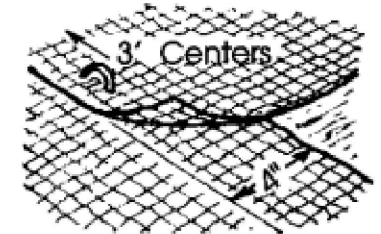
AS-BUILT
06/11/2024

Scale		AS SHOWN	# of 44
Drawn by	LOG	Checked by	TAK
Date	SEPT 2020		
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN #####			
MERIDIAN RANCH			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
Log	LOG	Date	Appr.
9/15/2021	LOG	10/7/2021	
LIGHT POLES SS SEREVIES WATER SERVICES REX ROAD & 12' WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,35,36,38)			
REUSE BOUNDARY LOT LINES FOR 6773 ADD TRACT F			
Revisions		No.	
		1	
		2	
		3	

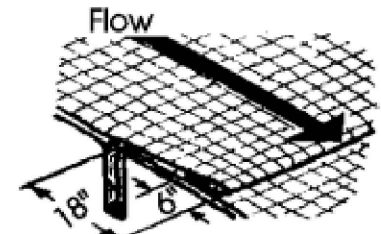
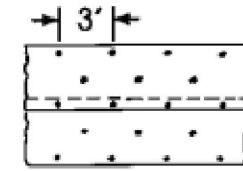
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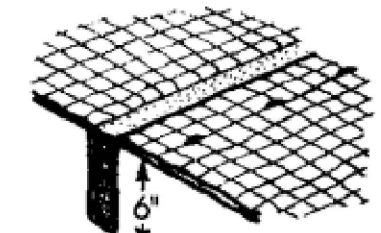
Anchor Slot: Bury the up-channel end of the net in a 6" deep trench. Tamp the soil firmly. Staple at 12" intervals across the net.



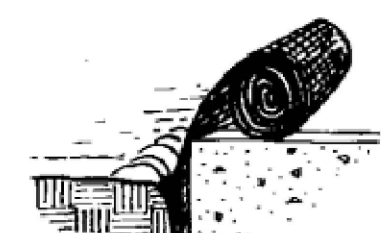
Overlap: Overlap edges of the strips at least 4". Staple every 3 feet down the center of the strip.



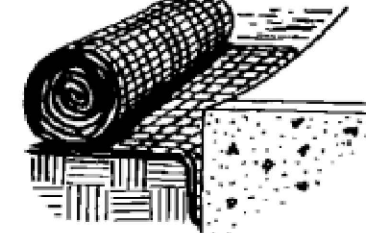
Joining Strips: Insert the new roll of net in a trench, as with the Anchor Slot. Overlap the up-channel end of the previous roll 18" and turn the end under 6". Staple the end of the previous roll just below the anchor slot and at the end at 12" intervals.



Check Slots: On erodible soils or steep slopes, check slots should be made every 15 feet. Insert a fold of the net into a 6" trench and tamp firmly. Staple at 12" intervals across the net. Lay the net smoothly on the surface of the soil - do not stretch the net, and do not allow wrinkles.

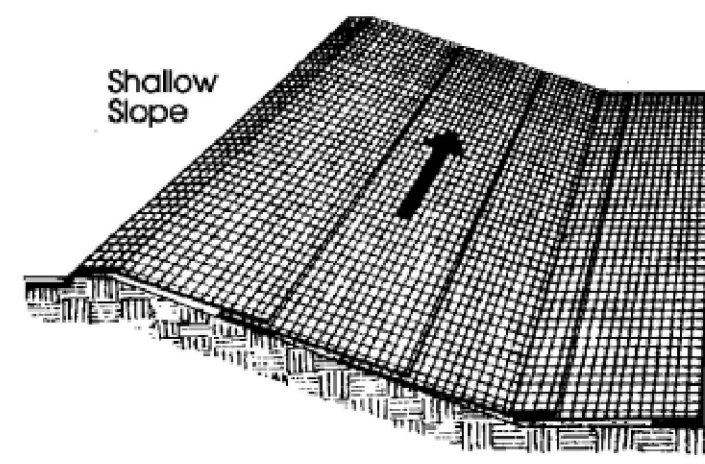


Anchoring Ends At Structures: Place the end of the net in a 6" slot on the up-channel side of the structure. Fill the trench and tamp firmly. Roll the net up the channel. Place staples at 12" intervals along the anchor end of the net.



City of Colorado Springs
Storm Water Quality

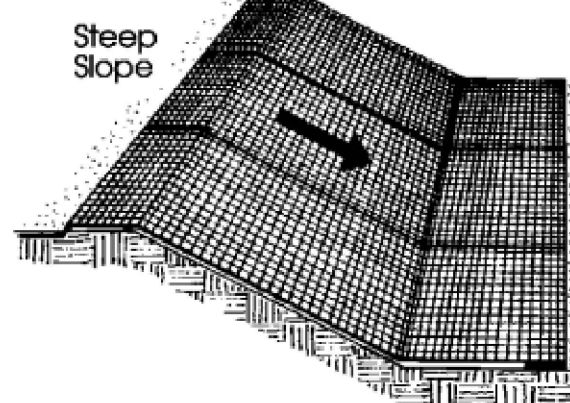
Figure ECB-2
Erosion Control Blanket
Installation Requirements



Shallow Slope

On shallow slopes, strips of netting may be applied across the slope.

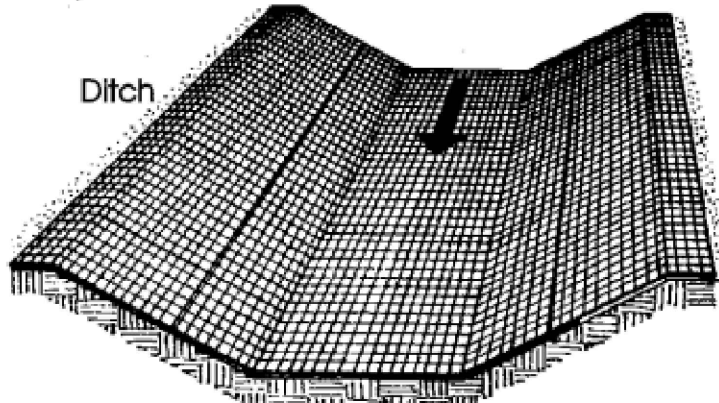
Where there is a berm at the top of the slope, bring the netting over the berm and anchor it behind the berm.



Steep Slope

On steep slopes, apply strips of netting parallel to the direction of flow and anchor securely.

Bring netting down to a level area before terminating the installation. Turn the end under 6" and staple at 12" intervals.

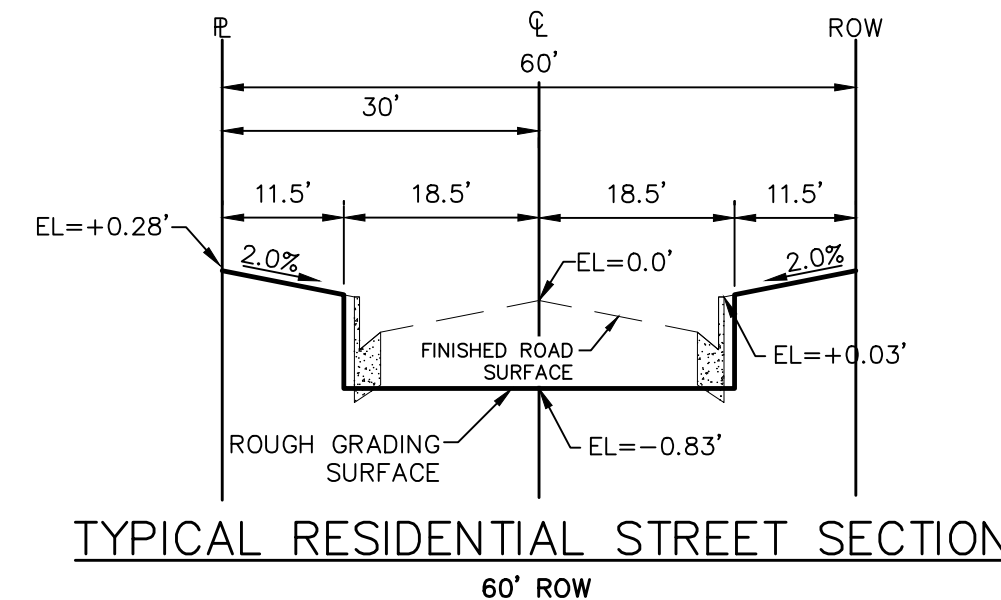
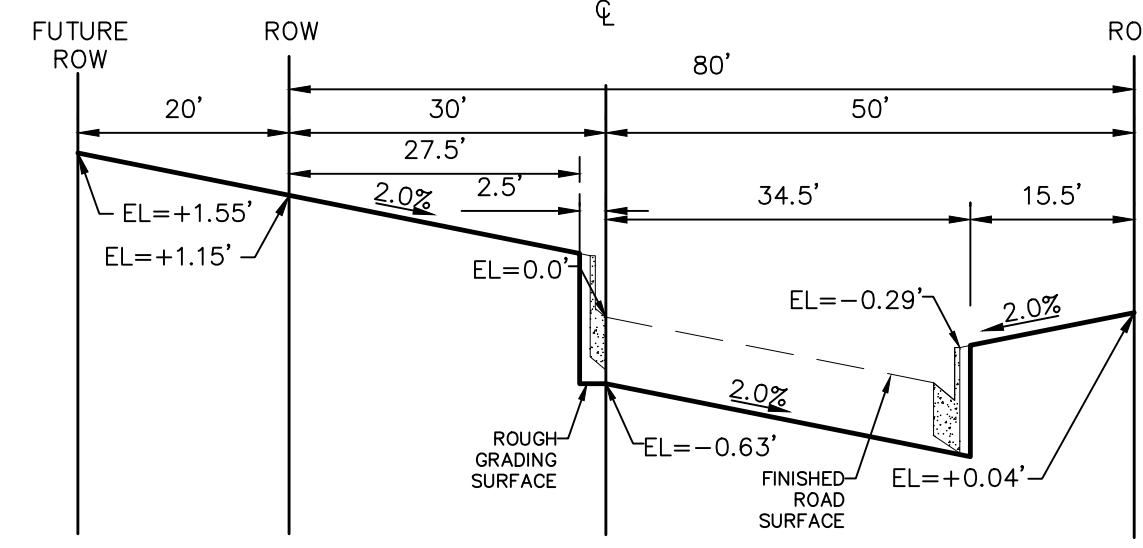


Ditch

In ditches, apply netting parallel to the direction of flow. Use check slots every 15 feet. Do not join strips in the center of the ditch.

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Figure ECB-1
Erosion Control Blanket
Application Examples



STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS DECEMBER 2020 WITH AN ANTICIPATED COMPLETION DATE OF OCTOBER 2022. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

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

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.

EROSION AND SEDIMENT CONTROL STAGE TABLE

Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Perimeter Control Temporary Sed. Basins Swale Checks as needed Surface Roughening	December 2020	March 2021
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	March 2021	June 2021
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	June 2021	
Final Stabilization	Permit Close	Final Stabilization Permanent Measures	October 2022	

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 FOR THIS 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 DOM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

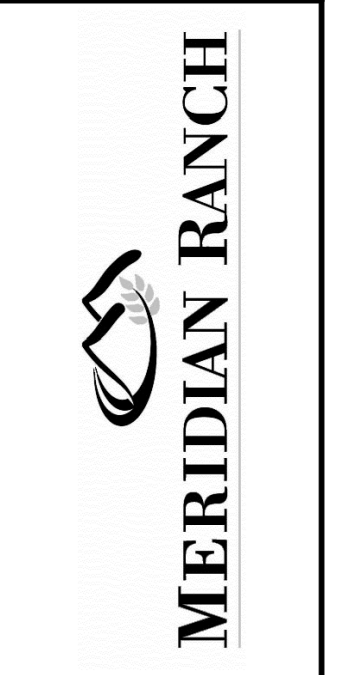
BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

GRASS	VARIETY	AMOUNT IN LBS. PER. ACRE
SIDE OATS 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

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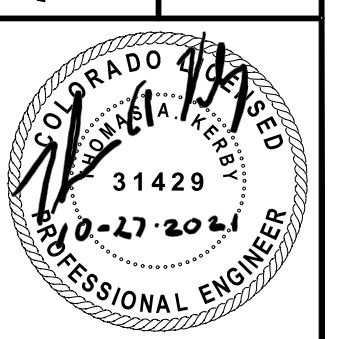
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FALCON, CO 80831
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FAX:
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THE ESTATES AT
ROLLING HILLS RANCH FILING 2
GRADING/EROSION CONTROL PLAN
GRADING DETAIL SHEET

Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	SEPT 2020
43 of 44			



RECOMMENDED ANNUAL GRASSES

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PLS/ACRE)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 16 - JUNE 30	10-15	1/2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDIFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

TABLE TS-1

TEMPORARY SEEDING NOTES

INSTALLATION REQUIREMENTS

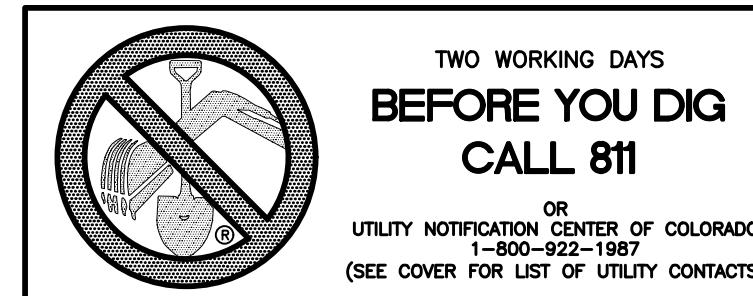
1. DISTURBED AREAS ARE TO BE SEEDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
3. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
4. SEEDED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
8. ALL SEEDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDED AREAS TO ENSURE GROWTH.
2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
3. SEEDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

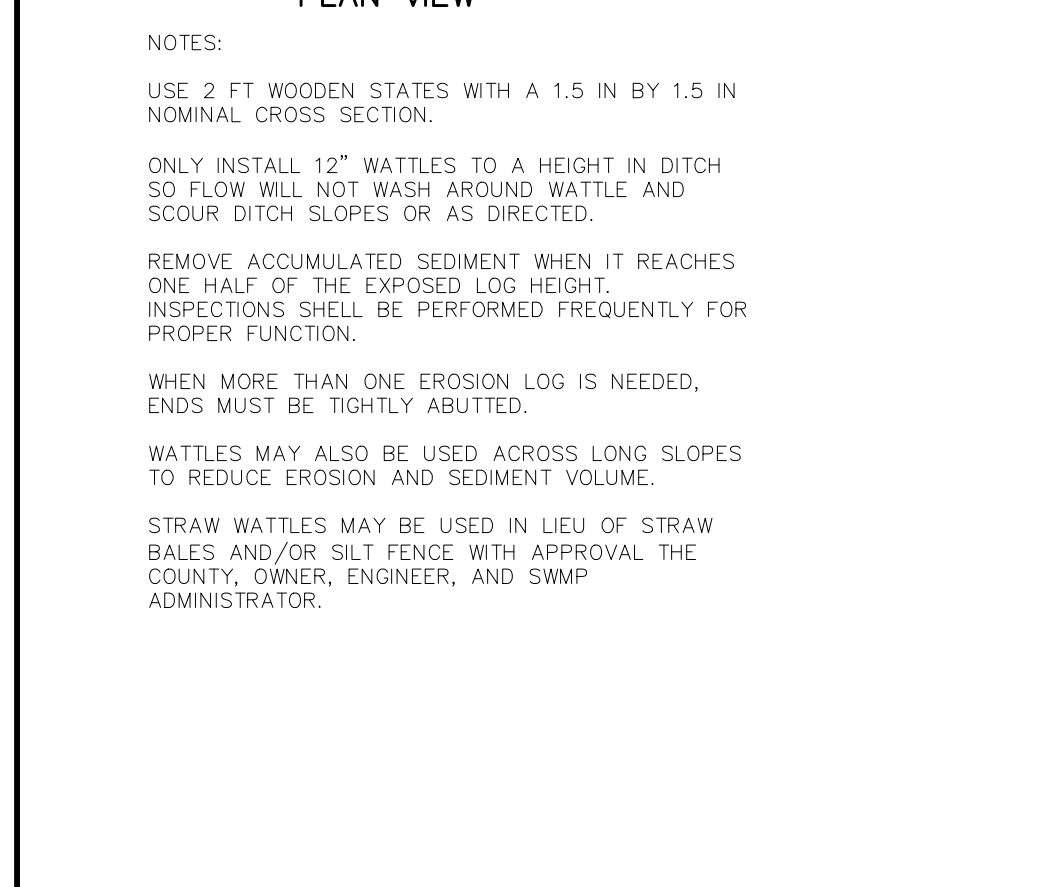
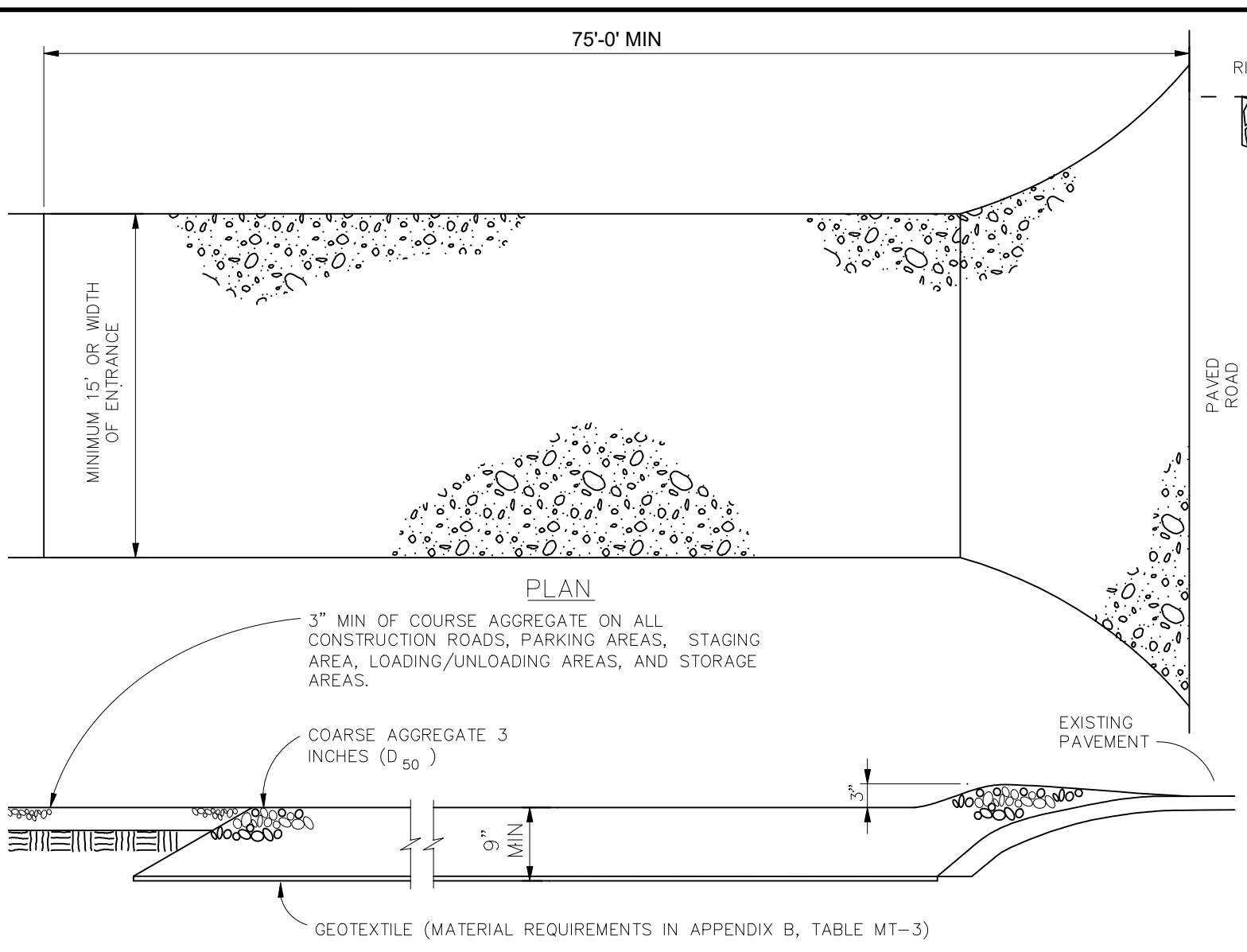
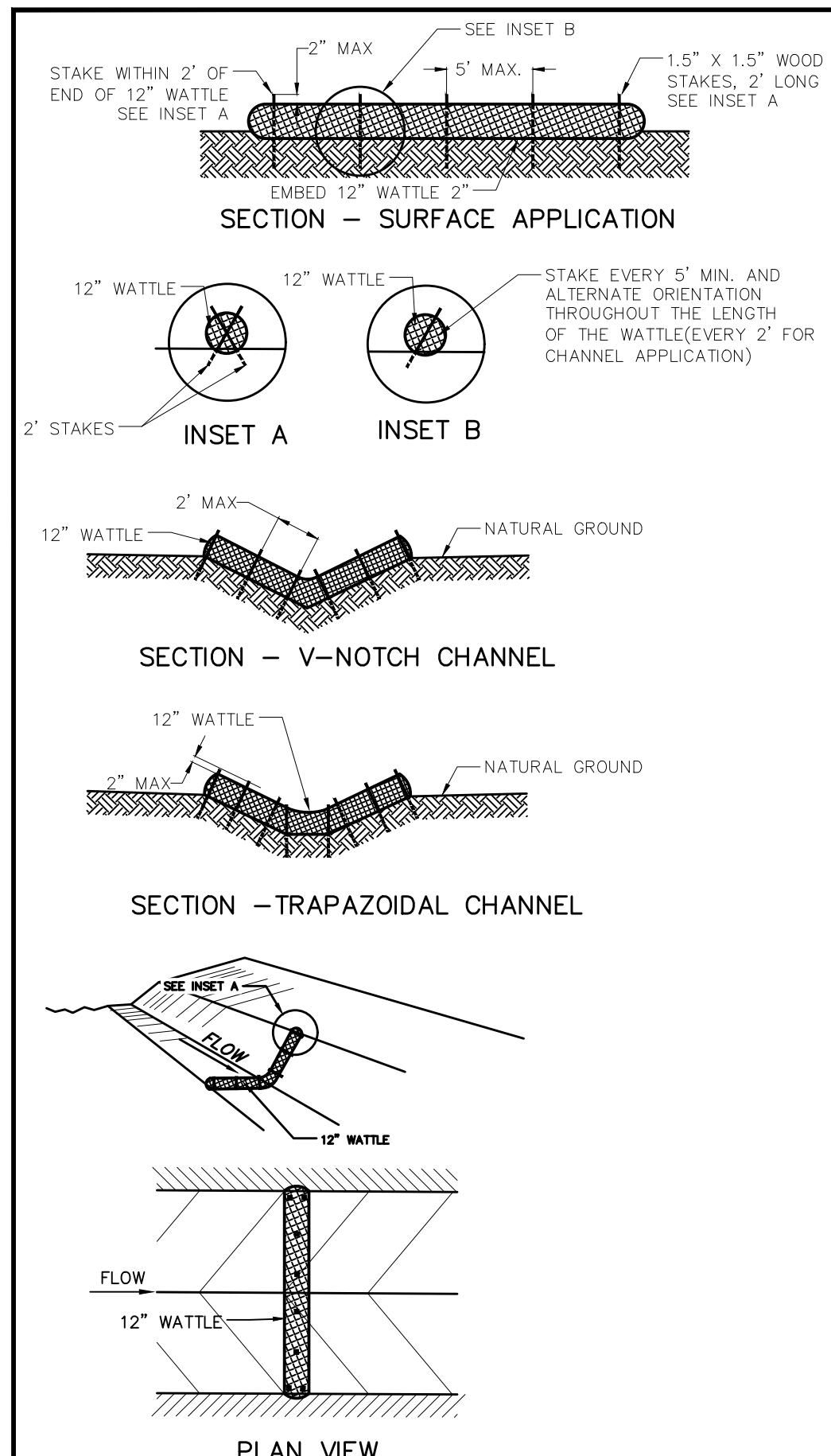
City of Colorado Springs
Stormwater Quality

Figure TS-1
Temporary Seeding
Construction Detail and Maintenance
Requirements



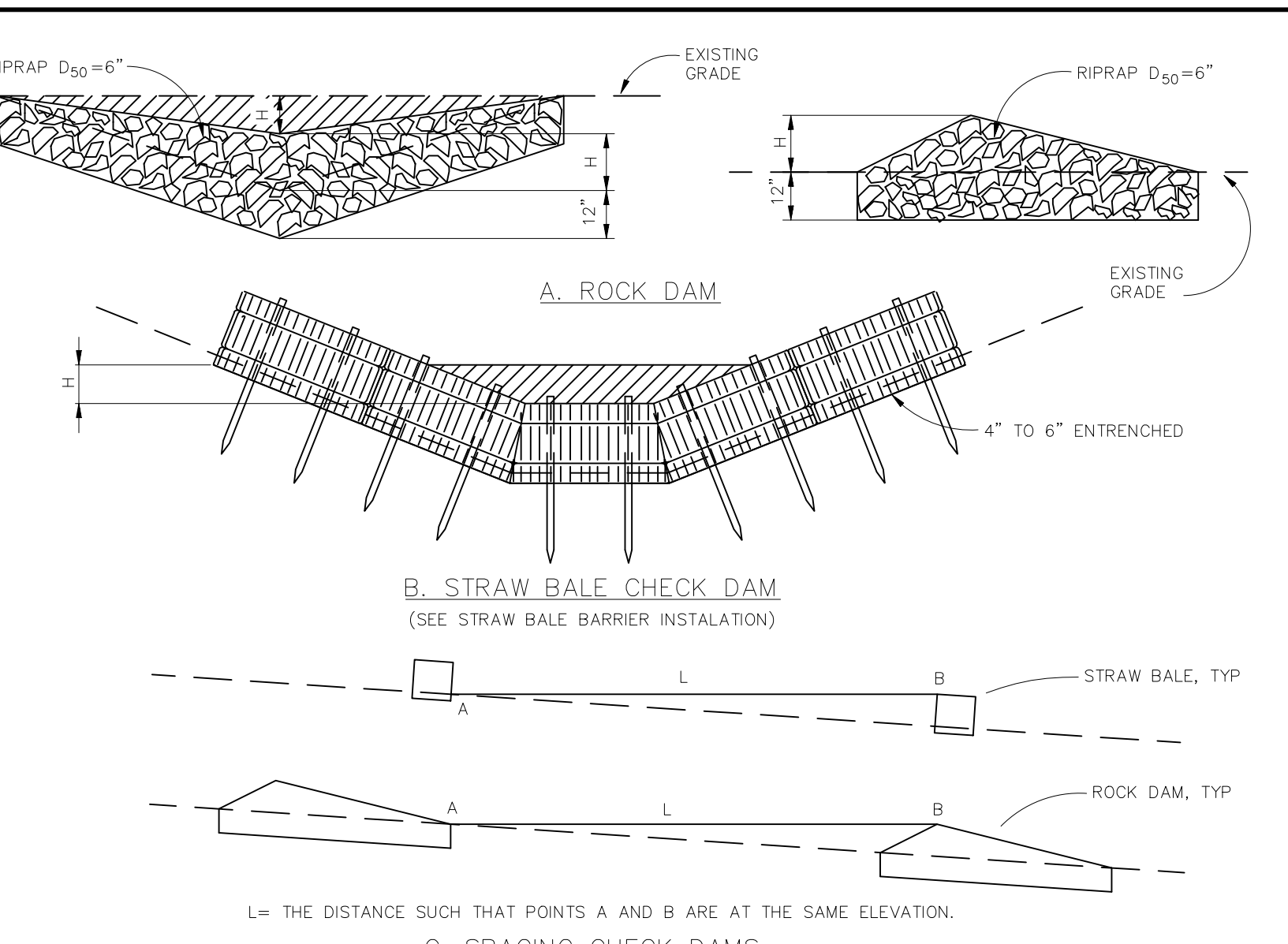
City of Colorado Springs
Stormwater Quality

Figure MU-1
Mulching
Construction Detail and Maintenance
Requirements



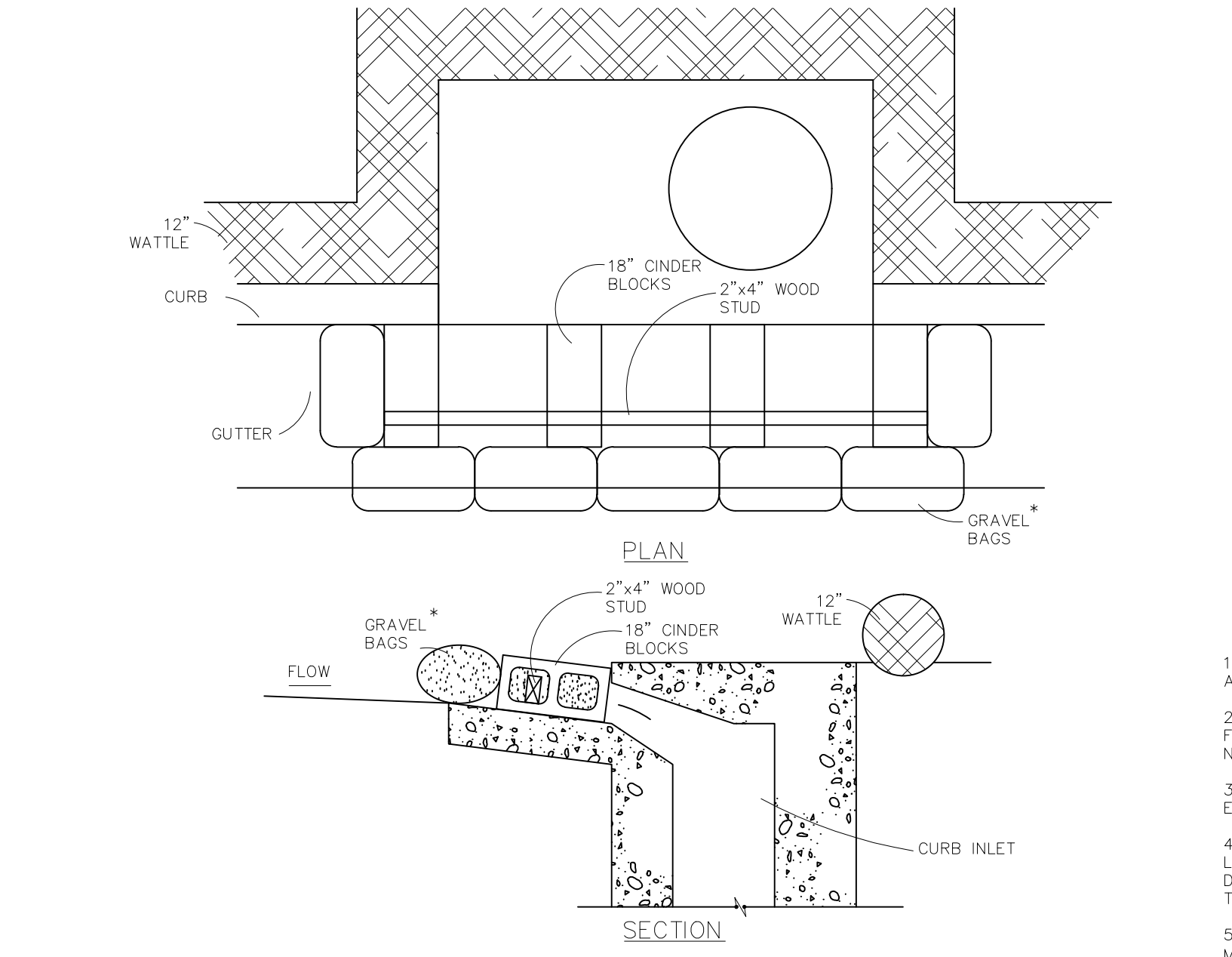
VEHICLE TRACKING NOTES

- INSTALLATION REQUIREMENTS**
1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
 2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
 3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
 4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
 5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.
- MAINTENANCE REQUIREMENTS**
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
 2. STONES ARE TO BE REPLACED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
 3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
 4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
 5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.



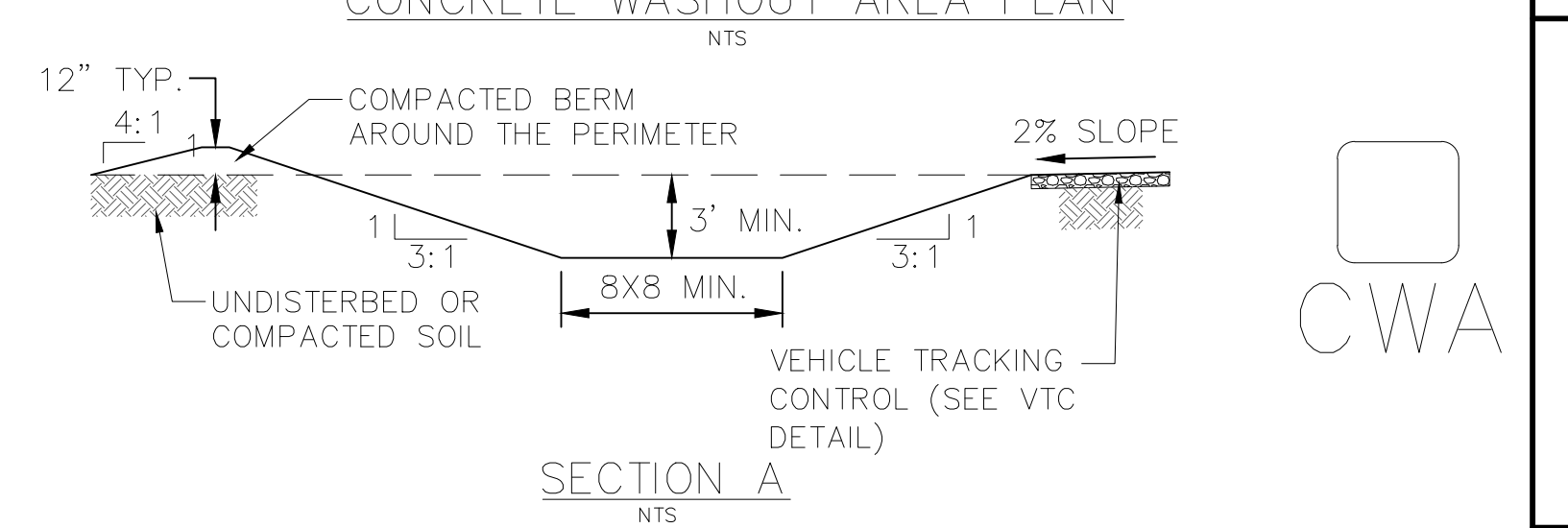
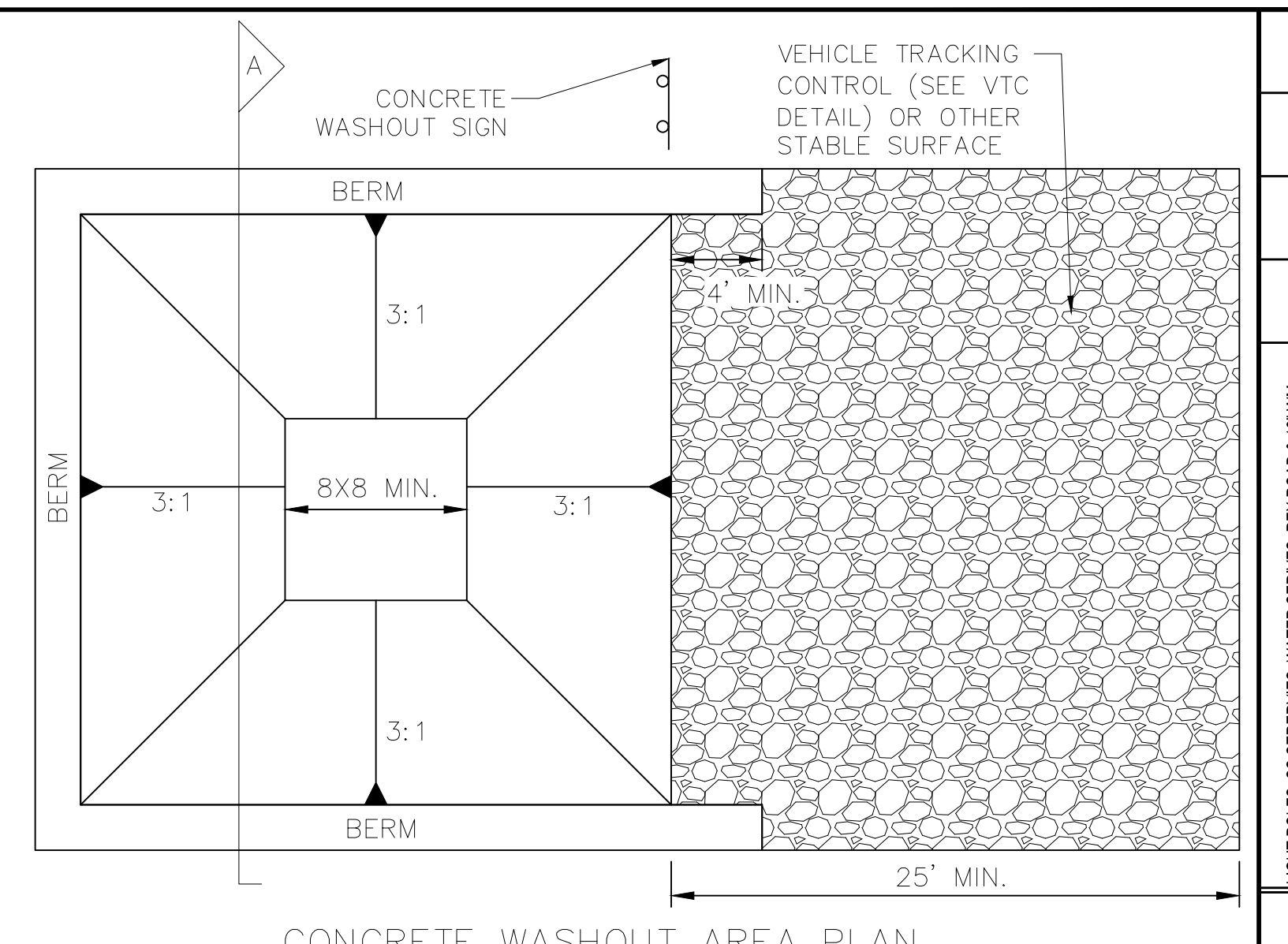
CHECK DAM NOTES

- INSTALLATION REQUIREMENTS**
1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
 2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.
- MAINTENANCE REQUIREMENTS**
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
 2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
 3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
 4. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
 5. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.



MODIFIED BLOCK AND GRAVEL BAG* CURB INLET PROTECTION NOTES

- INSTALLATION REQUIREMENTS**
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
 2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
 3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'.
 4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ADJUTING ONE ANOTHER SO THERE ARE NO GAPS.
 5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
 6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
 3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
 4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.



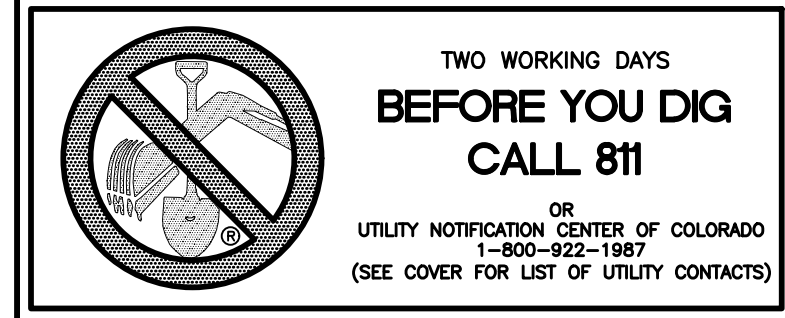
- CWA INSTALLATION NOTES:**
1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
 2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
 3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' X 8'. SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
 5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
 6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
 7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- CWA MAINTENANCE NOTES:**
1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION AND PERFORM NECESSARY MAINTENANCE.
 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
 5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

STRAW BALE BARRIER NOTES

- INSTALLATION REQUIREMENTS**
1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
 3. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
 4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
 5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
 6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
 7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
 8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 2. DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
 3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
 4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



Log	9/15/2021	11886 STAPLETON DRIVE FALCON, CO 80831	TECH CONTRACTORS
Log	10/7/2021	REUSE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F	11886 STAPLETON DRIVE FALCON, CO 80831
Revisions			TELEPHONE: 719.495.7444 FAX: 719.495.2457
No.	1		
Date			
Appr.			
MERIDIAN RANCH			
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING DETAIL SHEET			
Scale	AS SHOWN	44 of 44	
Drawn by	Log	Checked by	TAK
Date		Date	SEPT 2020



* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.