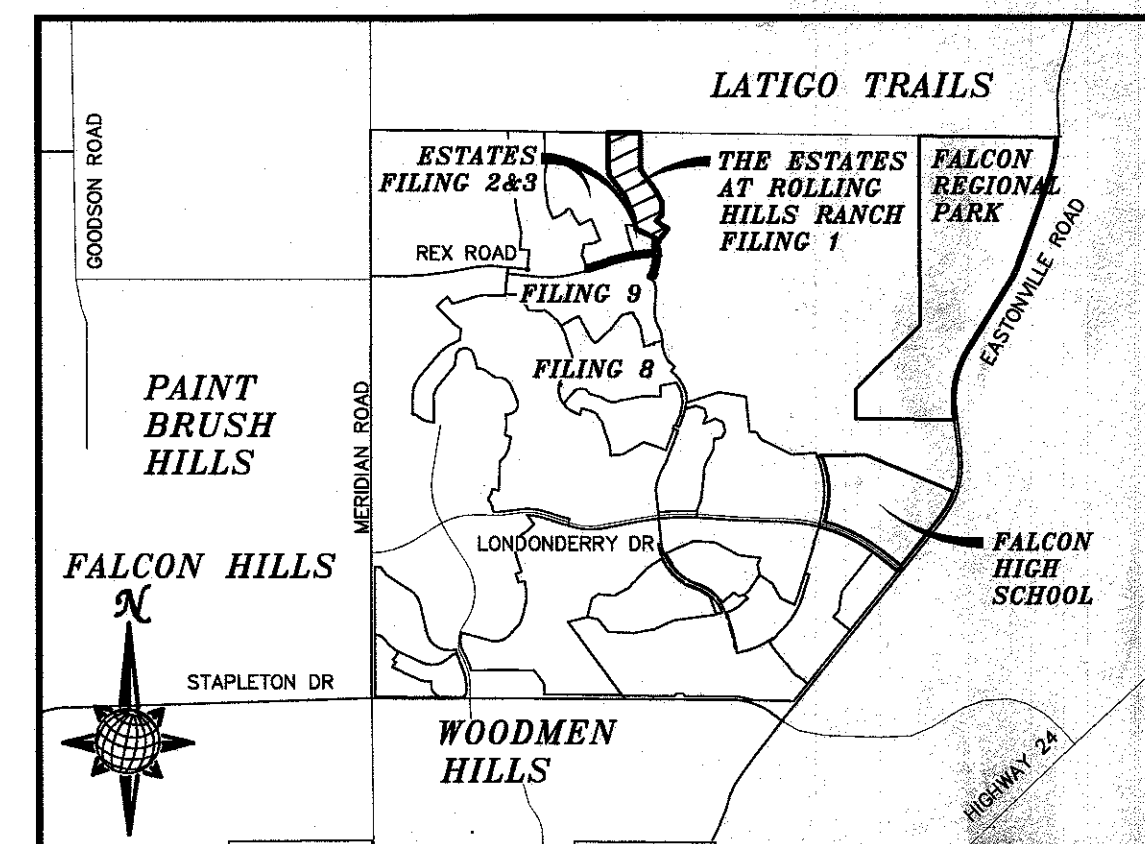


CONSTRUCTION DRAWINGS FOR THE ESTATES AT ROLLING HILLS RANCH FILING 1 IMPROVEMENT PLANS

A PARCEL OF LAND LOCATED IN A PORTION OF SECTION 19 AND 20
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,
EL PASO COUNTY, STATE OF COLORADO.



VICINITY MAP
N.T.S.

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 TRACT 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 SOUTHERN MOST CORNER OF TRACT C OF MERIDIAN RANCH ESTATES FILING NO. 2,
RECORDED WITH RECEPTION NO. 213713406 IN THE RECORDS OF EL PASO COUNTY;

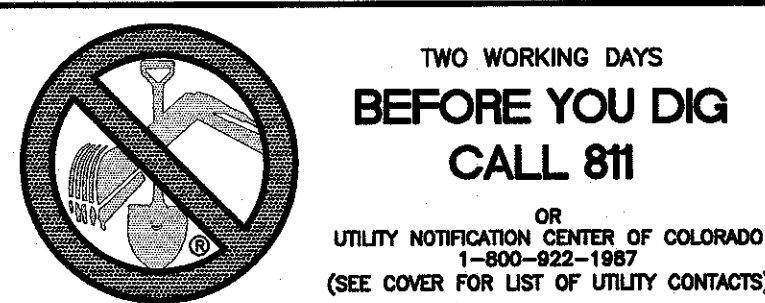
THE FOLLOWING EIGHT (8) COURSES ARE ALONG SAID LINE OF TRACT C AND BOUNDARY OF SAID MERIDIAN RANCH ESTATES FILING NO. 2:

1. THENCE N72°25'54"E A DISTANCE OF 442.10 FEET TO A CURVE TO THE RIGHT;
2. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 3300.00 FEET, A DELTA ANGLE OF 14°24'45", AN ARC LENGTH OF 830.10 FEET, WHOSE LONG CHORD BEARS N79°38'16"E A DISTANCE OF 827.92 FEET;
3. THENCE N42°55'36"E A DISTANCE OF 31.60 FEET;
4. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 280.00 FEET, A DELTA ANGLE OF 33°20'58", AN ARC LENGTH OF 151.33 FEET, WHOSE LONG CHORD BEARS N14°36'05"E A DISTANCE OF 149.21 FEET;
5. THENCE N57°09'47"W A DISTANCE OF 17.27 FEET;
6. THENCE N64°01'14"W A DISTANCE OF 392.46 FEET;
7. THENCE N11°02°28'W A DISTANCE OF 81.37 FEET TO A POINT ON THE SOUTHEAST CORNER OF THE MERIDIAN RANCH ESTATES, FILING NO. 3, RECORDED WITH RECEIPTION NO. 216713852 IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING SIX (6) COURSES ARE ALONG SAID TRACT A AND THE BOUNDARY OF SAID MERIDIAN RANCH ESTATES FILING NO. 3.

8. THENCE N11°10'28"W A DISTANCE OF 163.41 FEET;
9. THENCE N22°25'07"W A DISTANCE OF 421.43 FEET;
10. THENCE N39°04'57"W A DISTANCE OF 244.00 FEET;
11. THENCE N45°57'33"W A DISTANCE OF 239.34 FEET;
12. THENCE N06°29'52"W A DISTANCE OF 236.42 FEET;
13. THENCE N00°00'00"E A DISTANCE OF 552.46 FEET TO A POINT ON THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 19;
14. THENCE S89°18'07"E ON SAID NORTH SECTION LINE A DISTANCE OF 603.18 FEET;
15. THENCE S00°00'00"E A DISTANCE OF 672.92 FEET;
16. THENCE S35°00'00"E A DISTANCE OF 540.00 FEET;
17. THENCE S30°02'34"E A DISTANCE OF 180.68 FEET;
18. THENCE S00°00'00"E A DISTANCE OF 254.85 FEET;
19. THENCE S38°41'44"W A DISTANCE OF 150.00 FEET;
20. THENCE S51°18'16"E A DISTANCE OF 170.23 FEET;
21. THENCE N83°41'44"E A DISTANCE OF 31.11 FEET;
22. THENCE S51°18'16"E A DISTANCE OF 30.00 FEET;
23. THENCE S38°41'44"W A DISTANCE OF 231.44 FEET TO A POINT OR CURVE TO THE LEFT;
24. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 220.00 FEET, A DELTA ANGLE OF 140°46'08", AN ARC LENGTH OF 156.54 FEET, WHOSE LONG CHORD BEARS S18°18'40"W A DISTANCE OF 153.261 FEET;
25. THENCE S02°04'24"E A DISTANCE OF 45.00 FEET;
26. THENCE S47°04'24"E A DISTANCE OF 100.00 FEET;
27. THENCE S42°56'08"W A DISTANCE OF 31.12 FEET TO A NON-TANGENT POINT OF CURVE TO THE
28. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 630.00 FEET, A DELTA ANGLE OF 22°38'05", AN ARC LENGTH OF 248.88 FEET, WHOSE LONG CHORD BEARS S09°30'41"W A DISTANCE OF 247.27 FEET;
29. THENCE S20°49'43"E A DISTANCE OF 52.81 FEET;
30. THENCE S22°23'52"E A DISTANCE OF 32.06 FEET;

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).



1) MRRCL - 3 1/4" ALUMINUM CAP ON NO.6 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) MRMSI - 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'

DEVELOPERS STATEMENT:

I, THE DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE PLANS AND SPECIFICATIONS.


PAUL GUZMAN VICE PRESIDENT
GTL DEVELOPMENT, INC.

OWNERS STATEMENT:

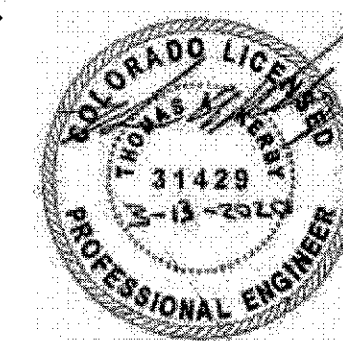
I, THE OWNER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE PLANS AND SPECIFICATIONS.


PAUL GUZMAN, VICE PRESIDENT
MERIDIAN RANCH INVESTMENTS, INC.

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 SUBMITTED TO THE BOARD OF SUPERVISORS WITH MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY AND NEGLIGENT ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

THOMAS A. KERBY, P.E. #31429



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 MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

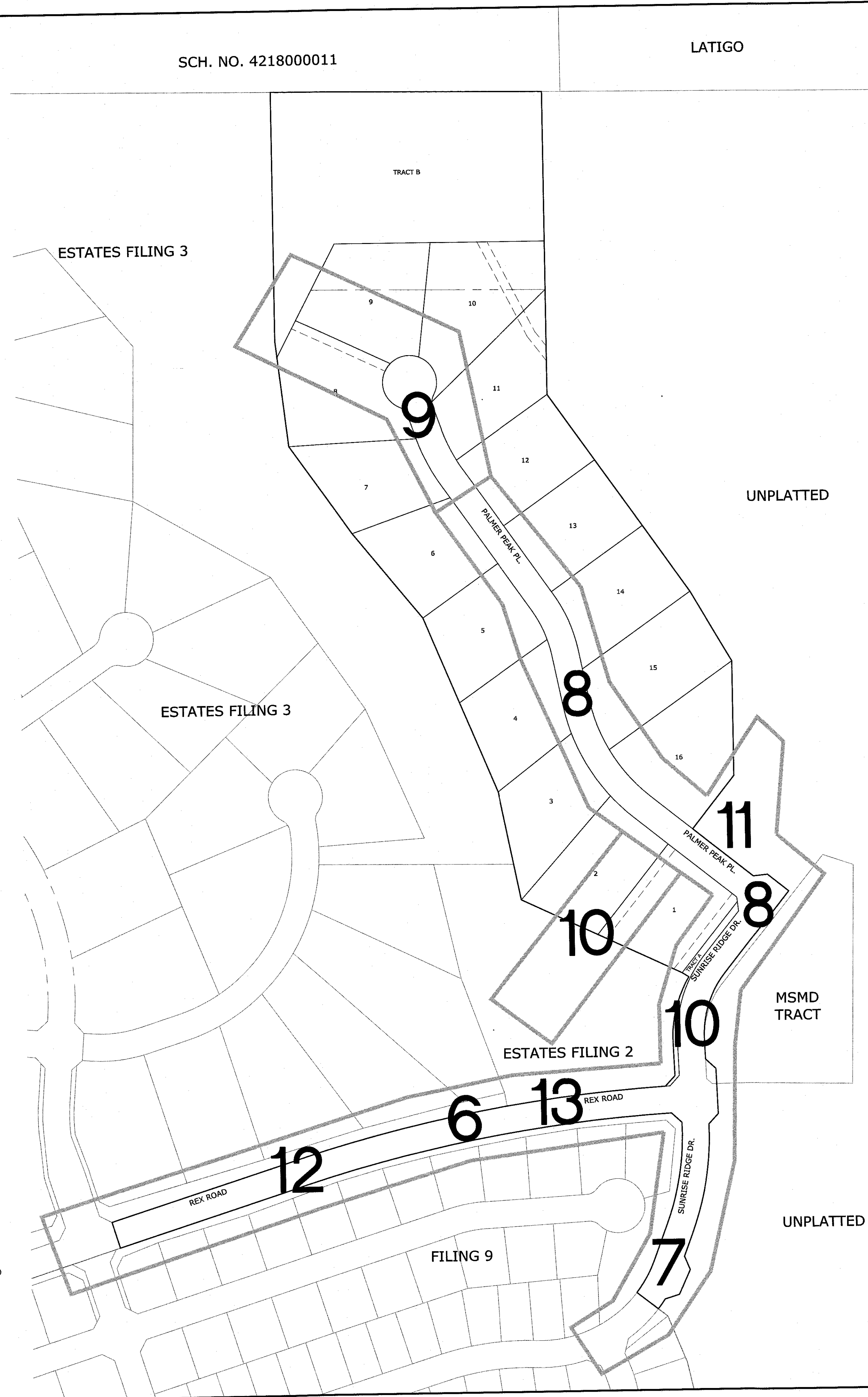
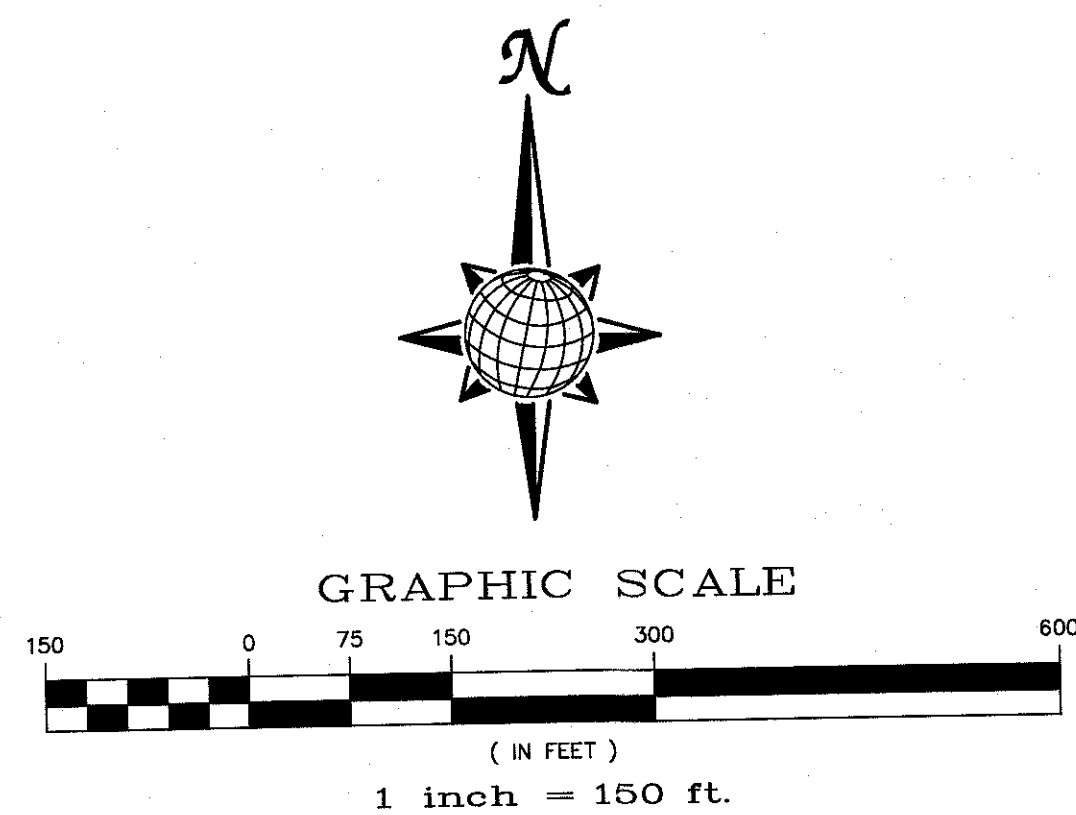
IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT BEEN STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT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


JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

SHEET NO	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3	NOTES SHEET
4-5	DETAIL SHEET
6	REX ROAD
7	SUNRISE RIDGE DR.
8	PALMER PEAK PL.
9	PALMER PEAK PL. & WM TAPS
10	ROLLING MESA DR., STORM #2 & SS #
11	STORM #1
12	SIGNAGE AND STRIPING
13	SIDEWALK PLAN
14	OVERALL SANITARY SEWER
15	OVERALL SANITARY SEWER SERVICES
16	OVERALL UNDERDRAIN
17	OVERALL WATER
18	OVERALL WATER SERVICES
19	OVERALL STORM DRAIN
20	INDEX SHEET
21-25	GRADING LAYOUT SHEETS
26	GRADING DETAIL SHEET

Scale	AS SHOWN	Drawn by	Loc	THE ESTATES AT ROLLING HILLS RANCH, PHASE I STREET AND 10TH COVER SHEET	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1				
		Checked by	TAK				2				
1 of 26	Date	FEB 2020					3				
							4				
				No.	Revisions	Date	Init.	Appr.	Date		

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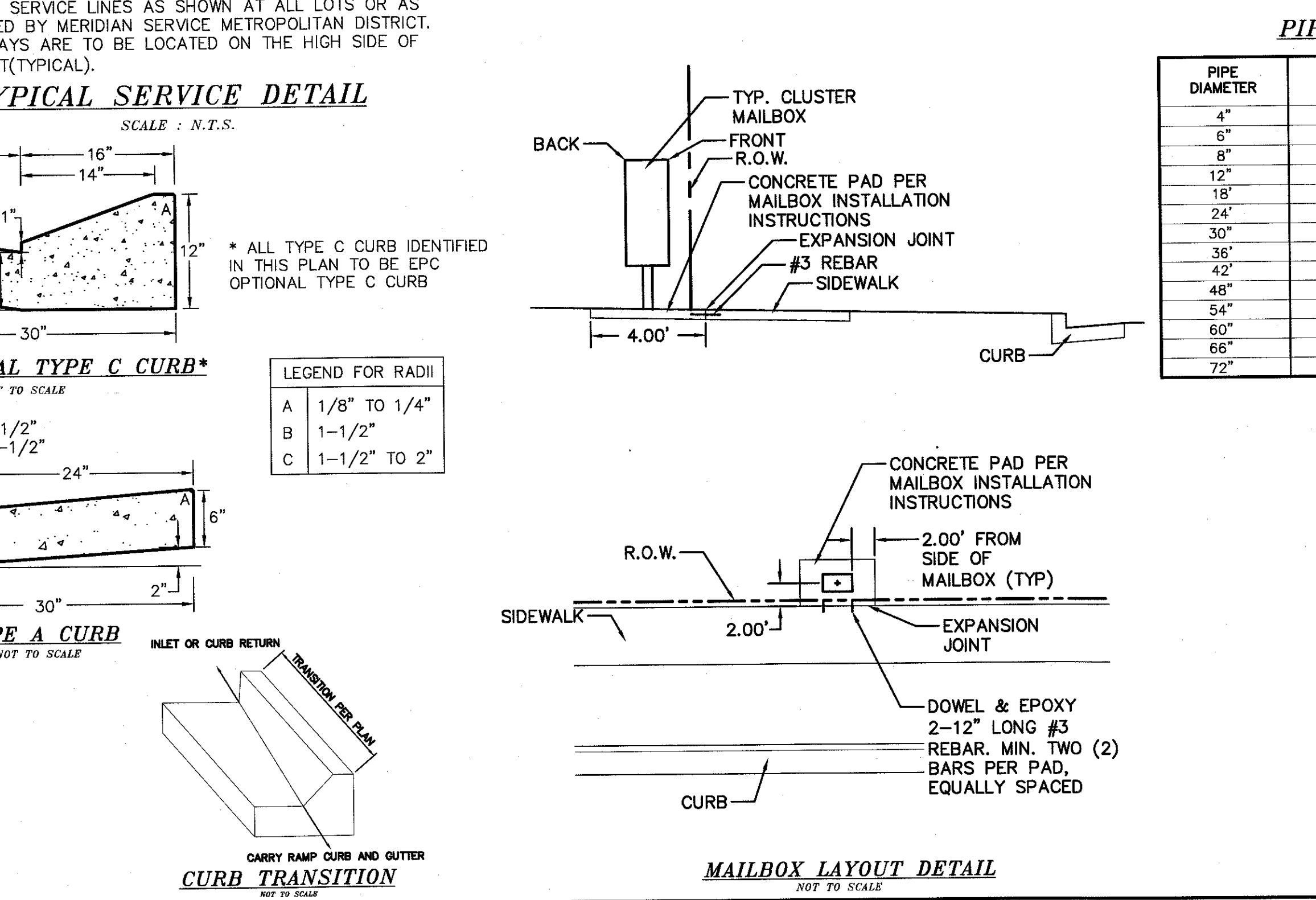
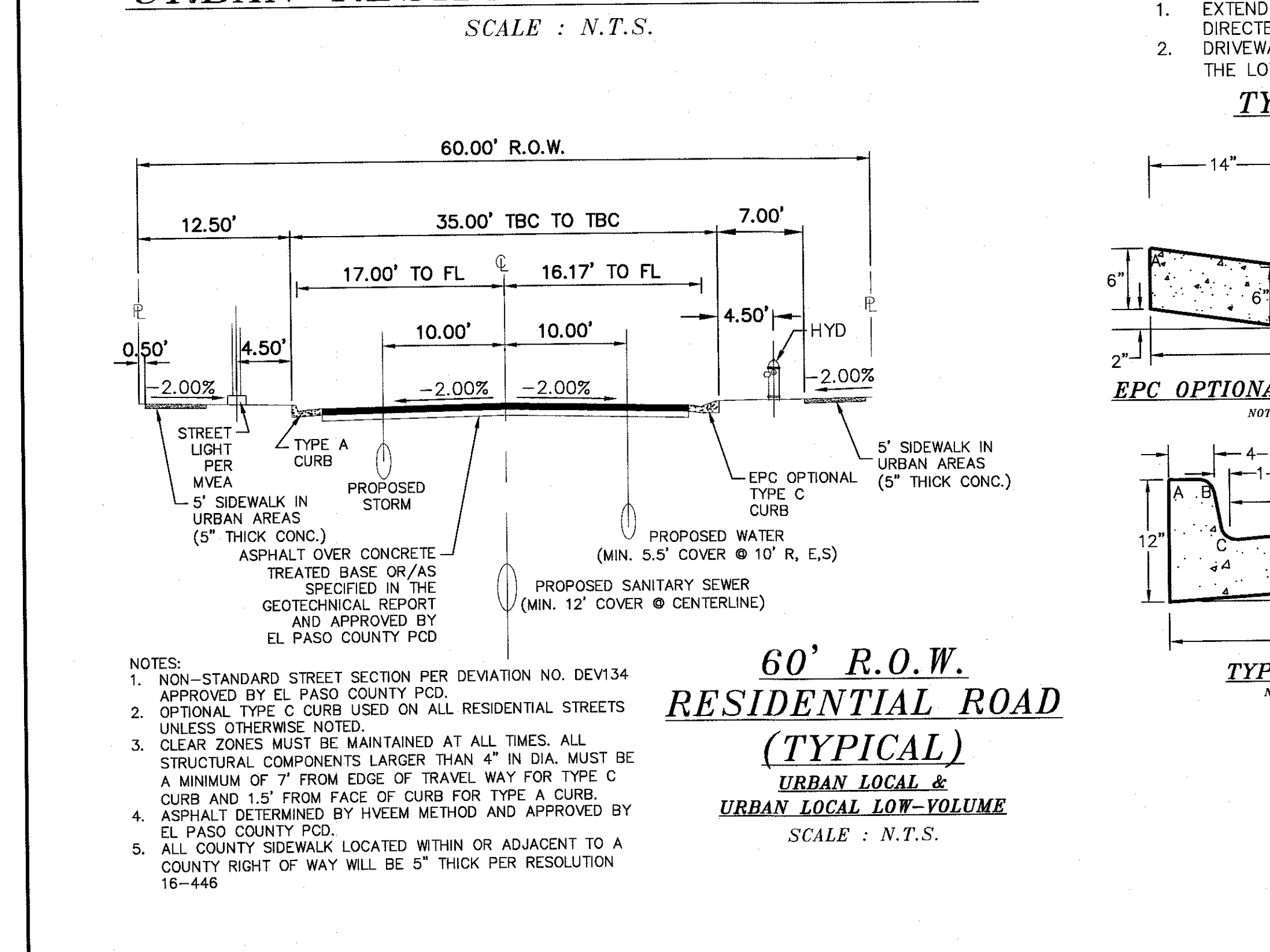
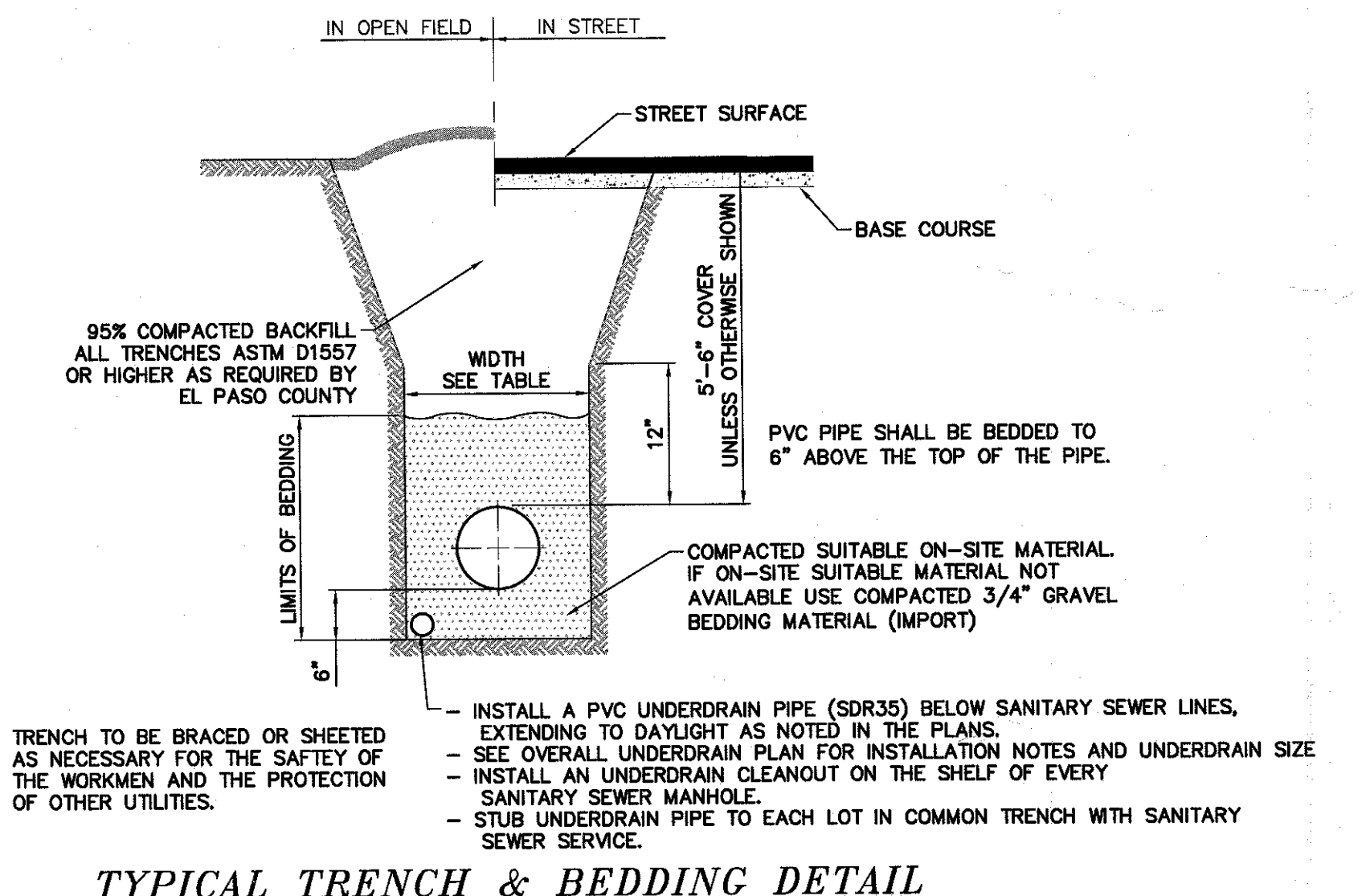
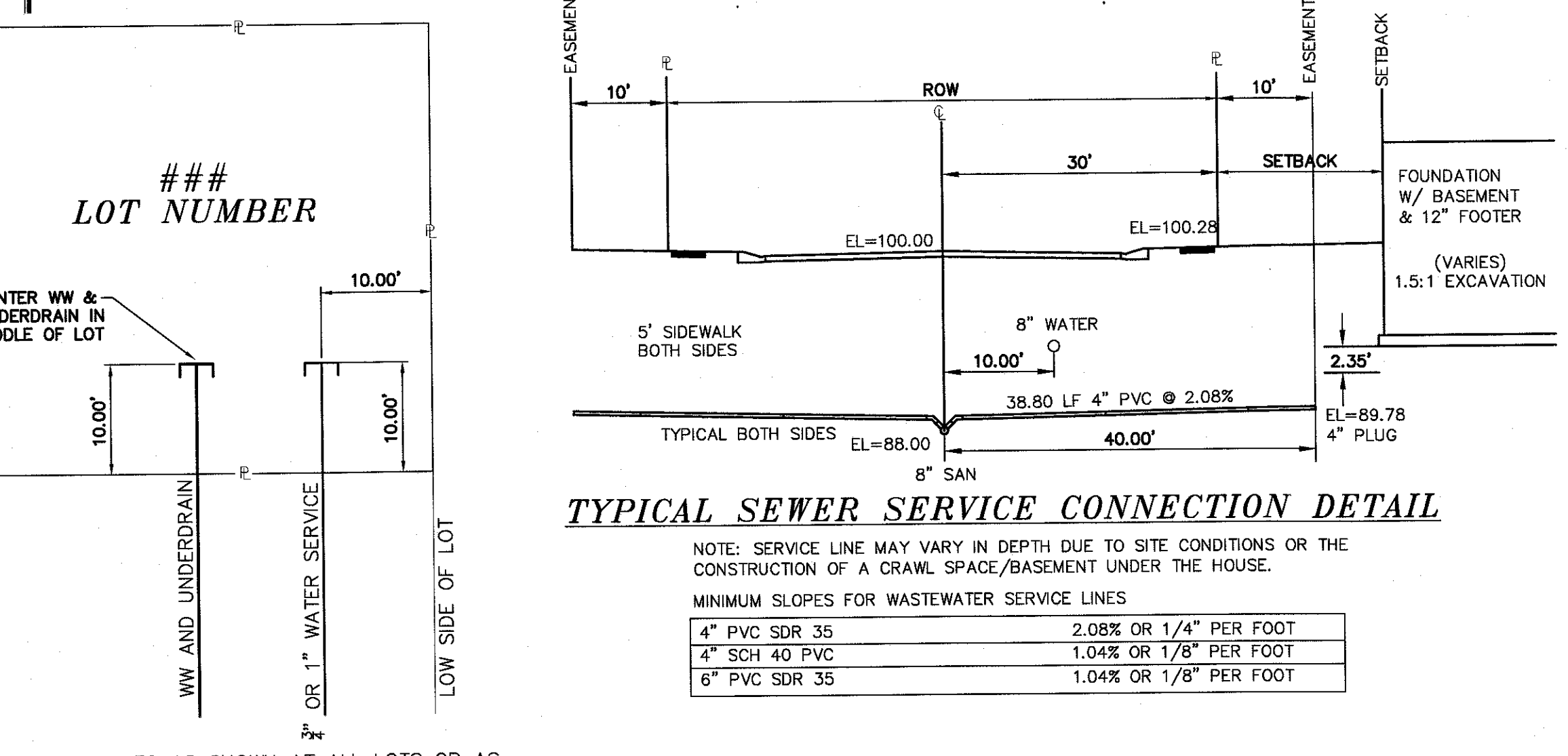
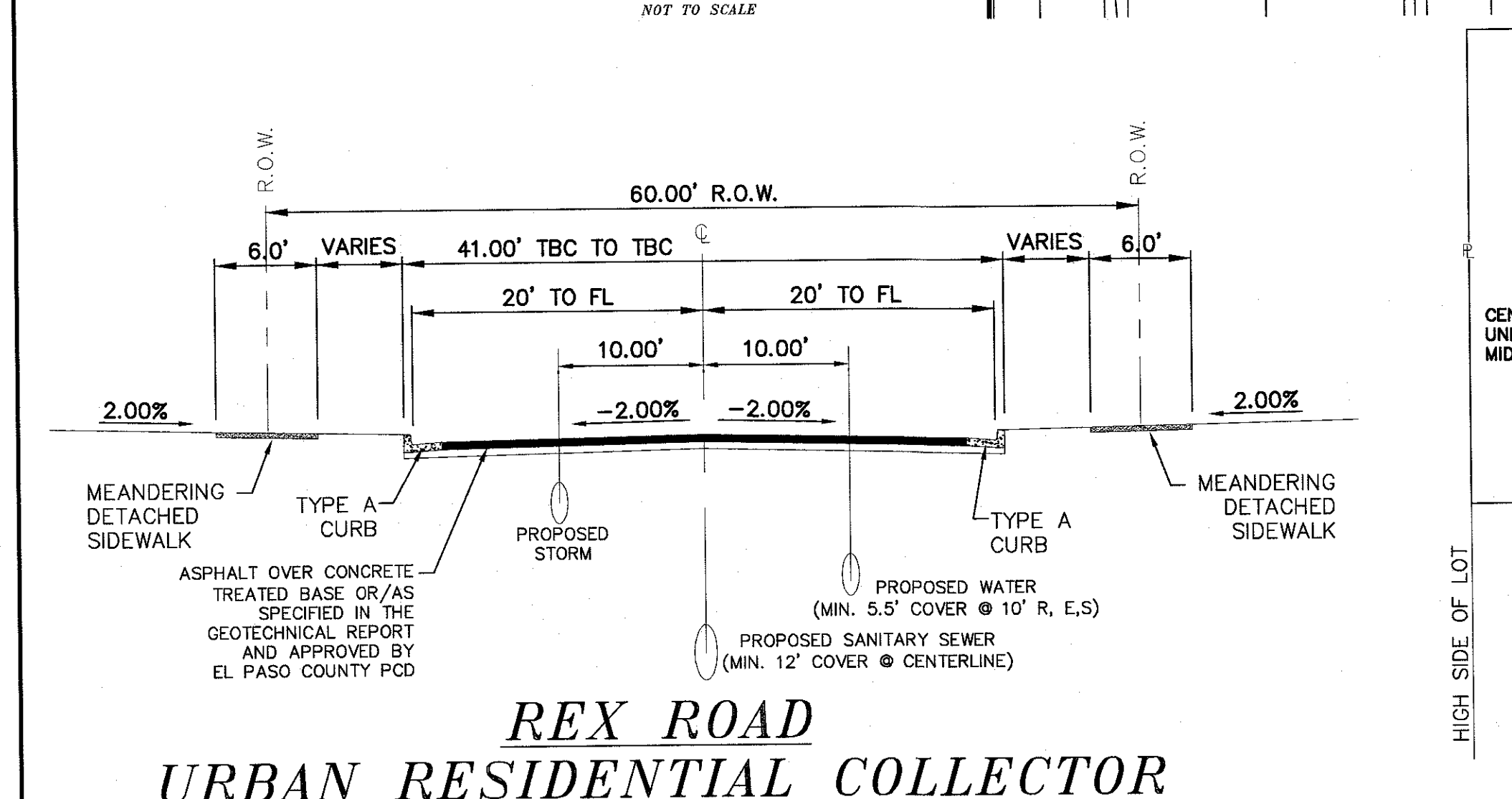
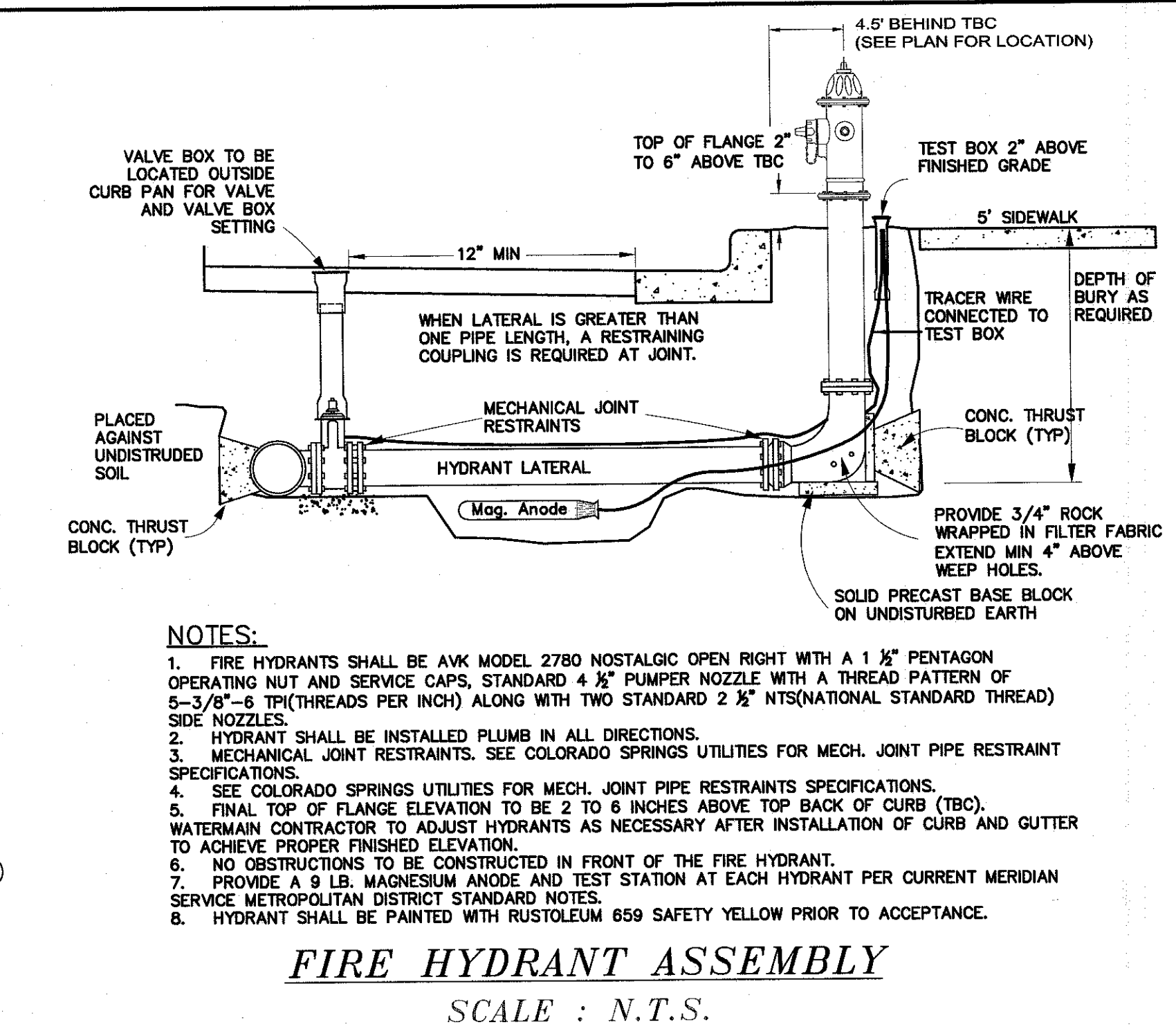
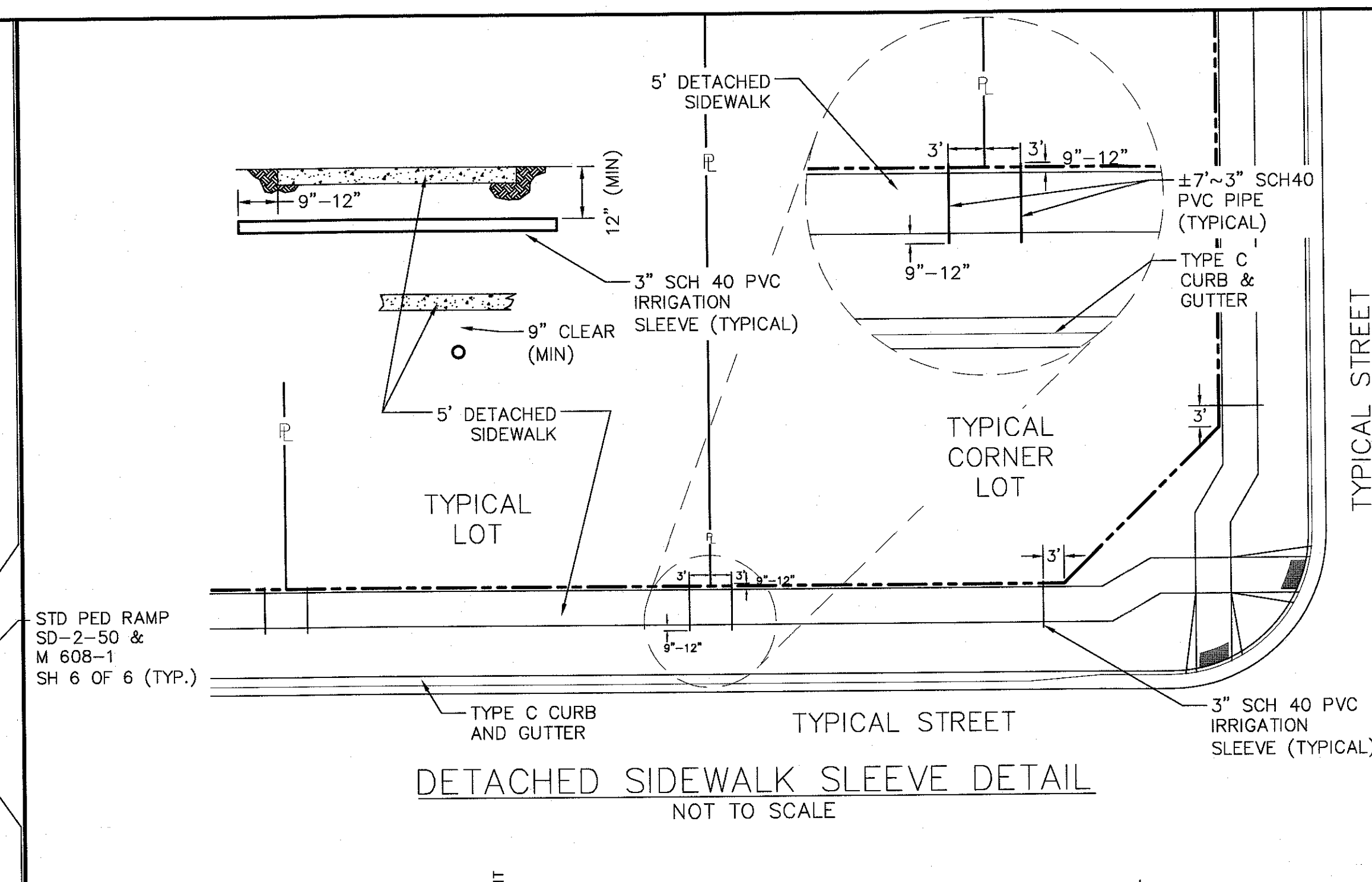
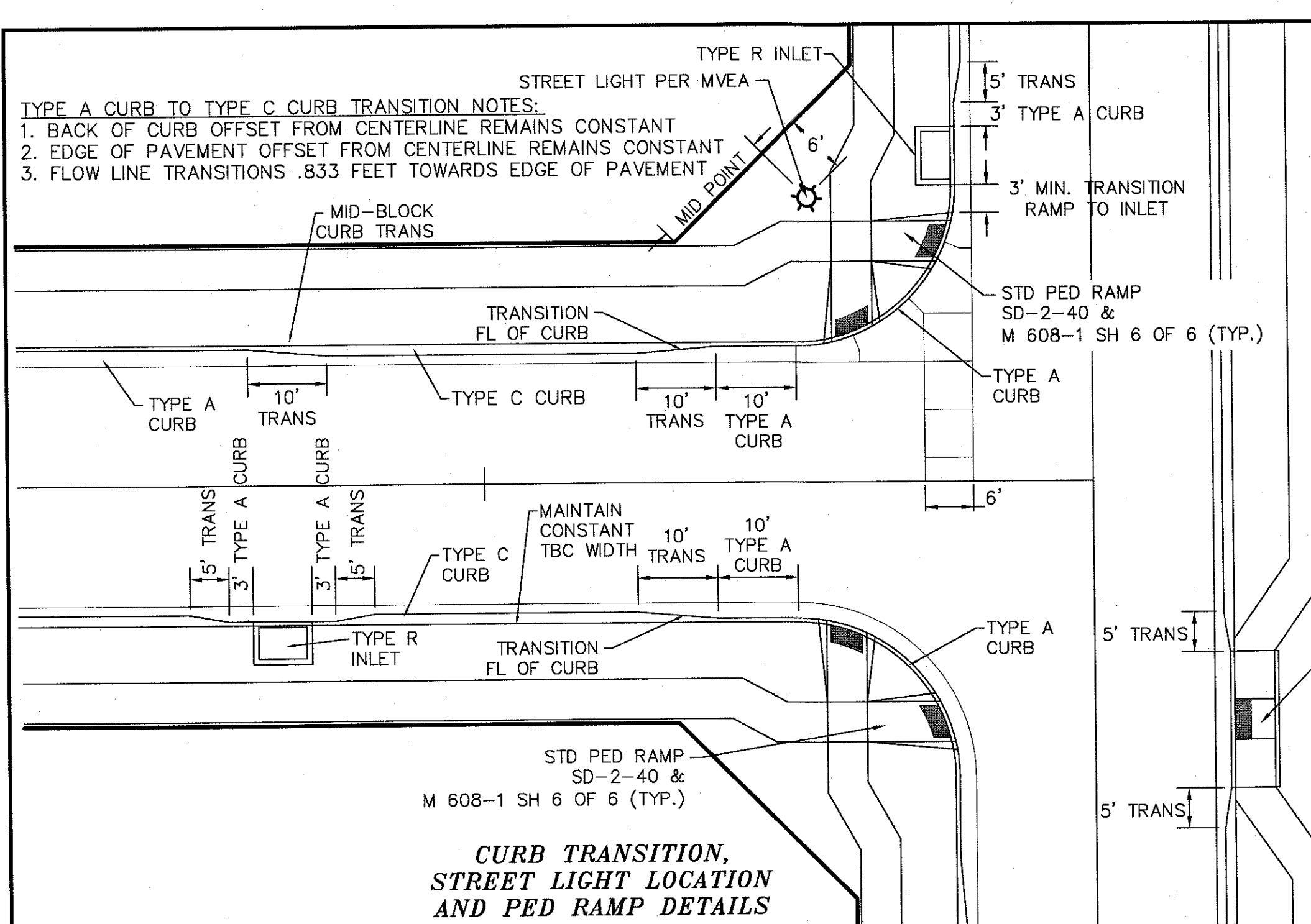


TWO WORKING DAYS
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OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTACTS)

EPC 6/22/2020

	Scale AS SHOWN	Drawn by LOG	Checked by TK	Date FEB 2020	THE ESTATES AT ROLLING HILLS RANCH FILING 1 STREET AND UTILITY PLANS INDEX SHEET				 MERIDIAN RANCH		TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		1 2 3 4 No.		Revisions		Date	Init.	Appr.	Date		



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"	10'-0"
66"	8'-0"	10'-0"
72"	10'-0"	12'-0"

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

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

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

MERIDIAN RANCH

THE ESTATES AT ROLLING HILLS RANCH FLING 1 STREET AND UTILITY PLANS

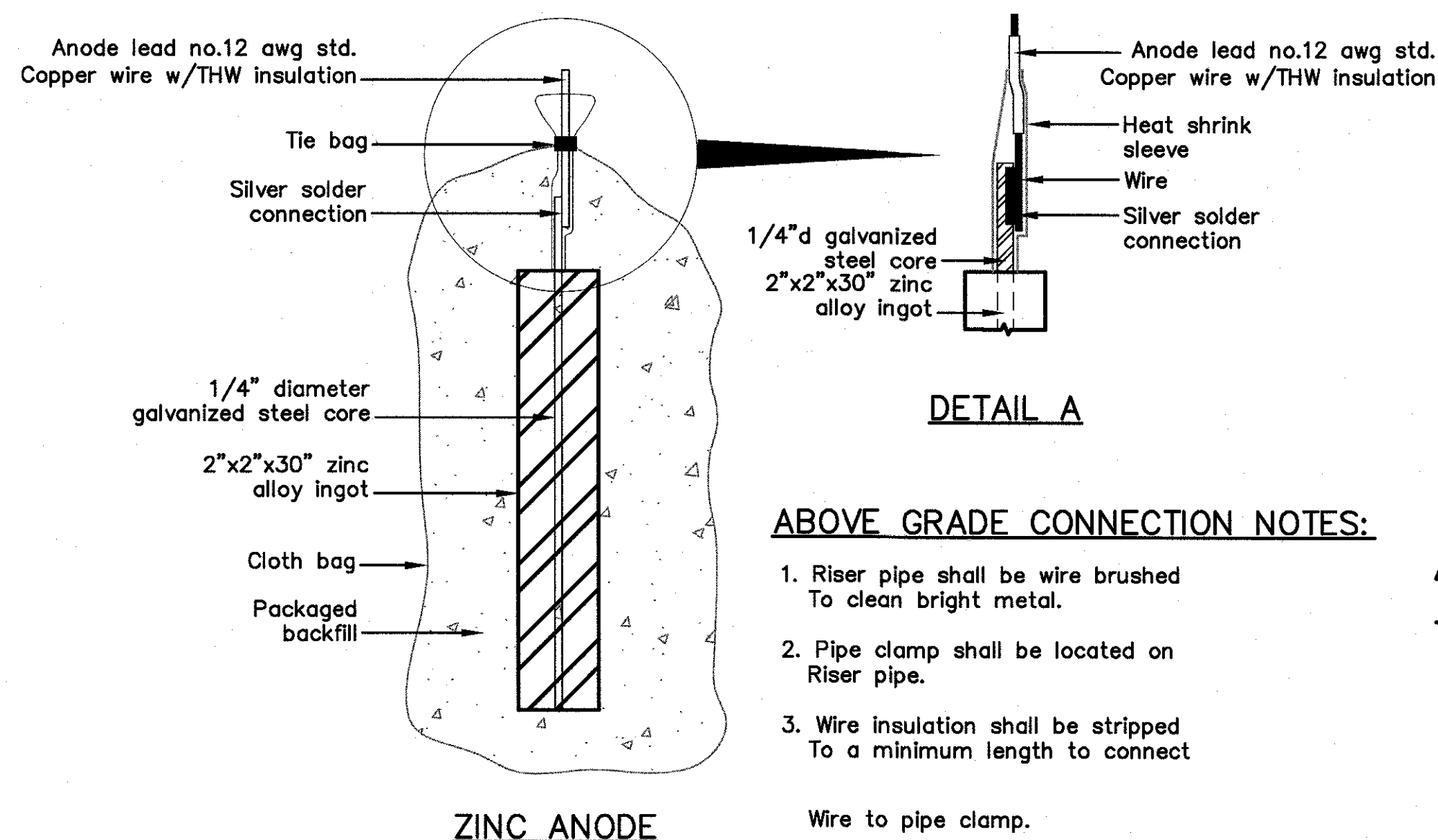
DETAIL SHEET

Drawn by: LGS
 Checked by: TKK
 Date: FEB 2020

Scale: AS SHOWN
 4 of 26

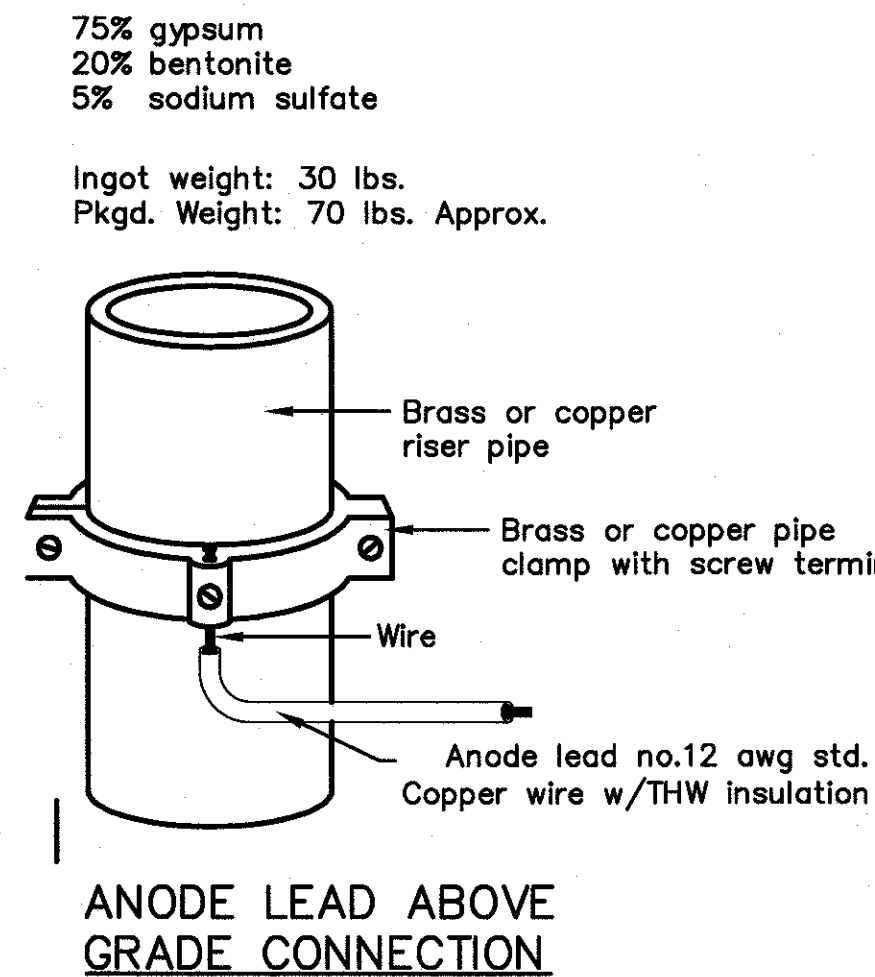
COLORADO LICENSED PROFESSIONAL ENGINEER
 31429
 2-13-2023

PCD PROJECT NO. SF-19-019



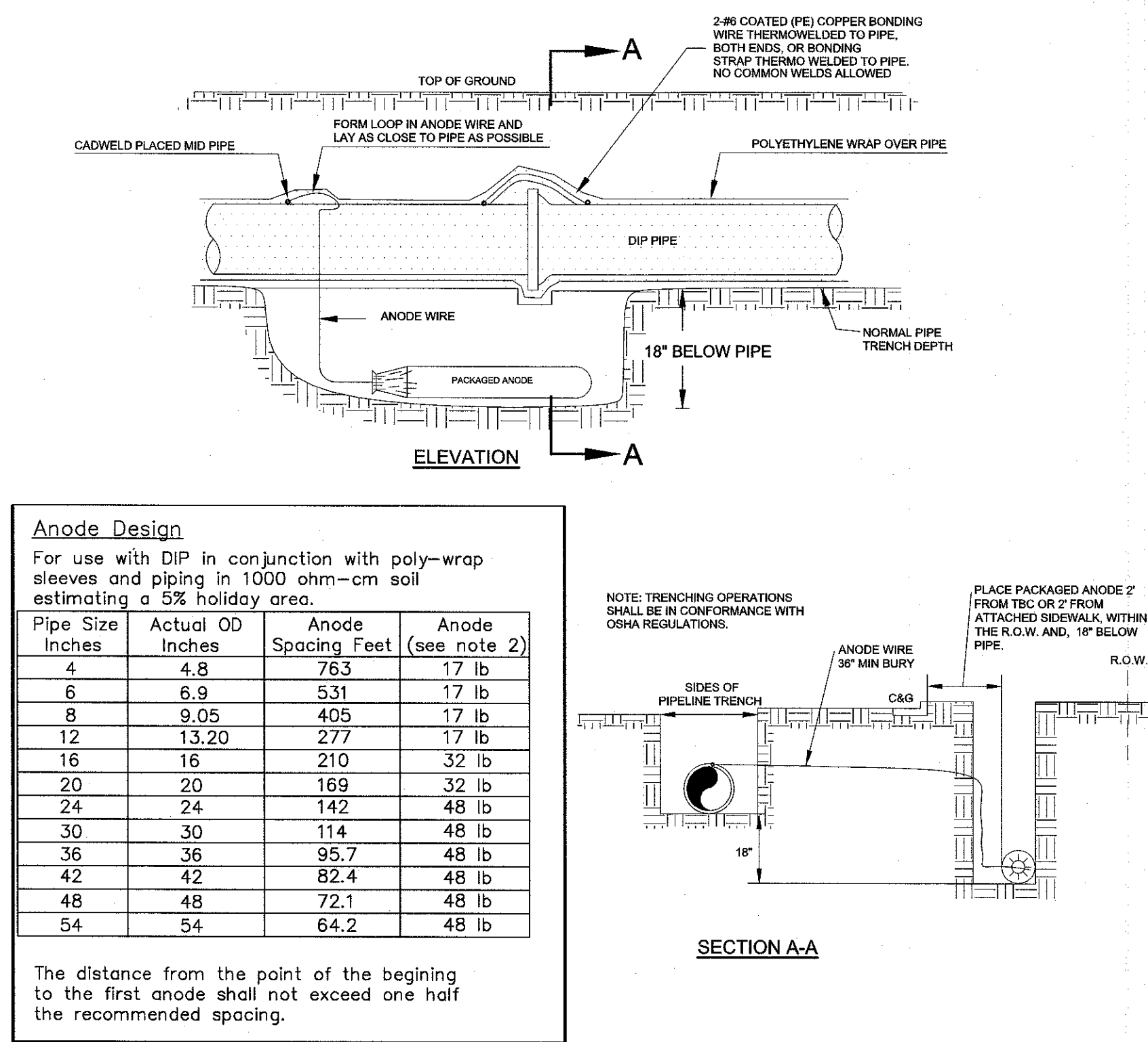
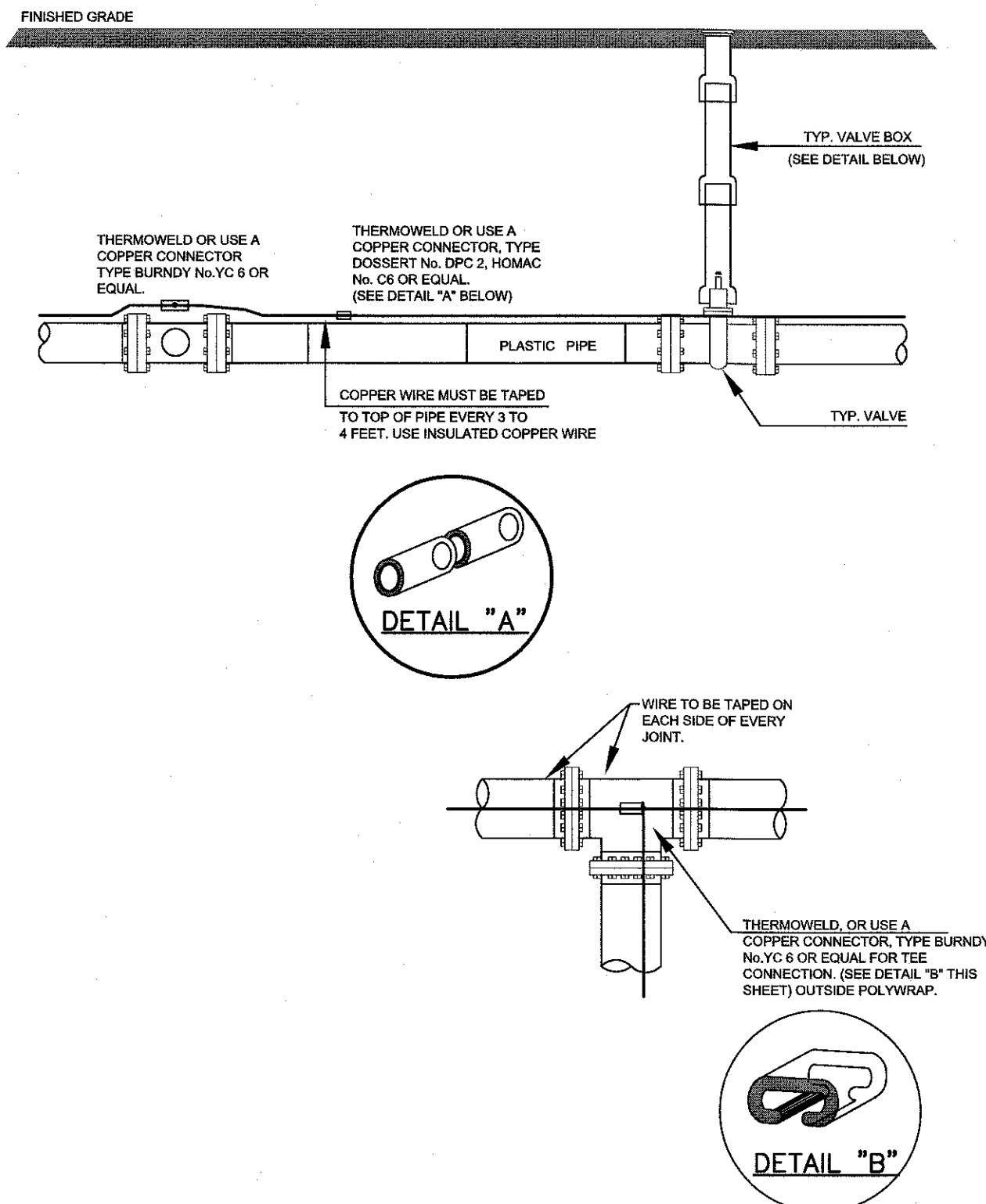
ZINC ANODE AND CONNECTORS
FOR 1" AND 2" WATER SERVICE

PACKAGED BACKFILL COMPOSITION:



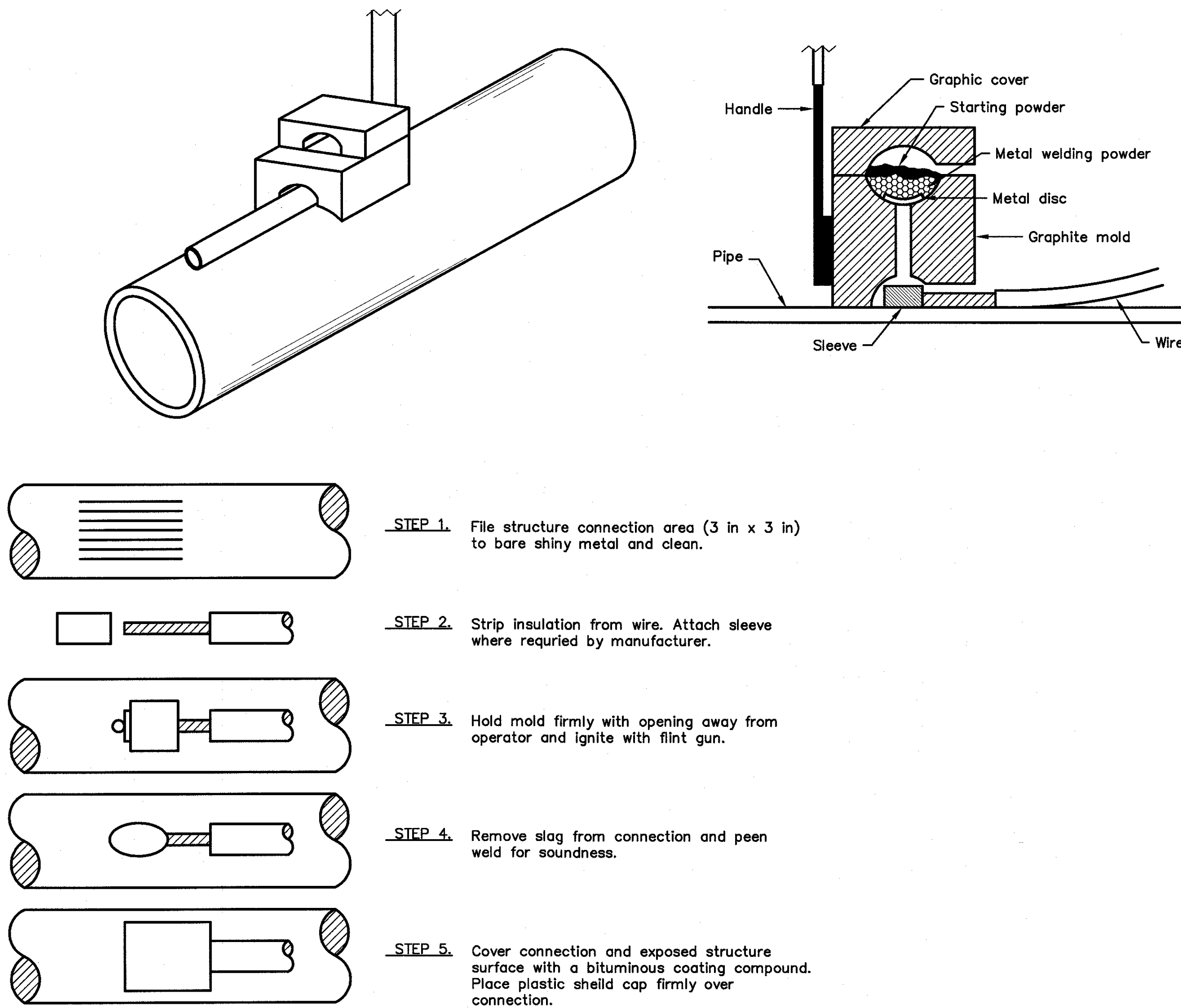
ABOVE GRADE CONNECTION NOTES:

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



NOTES

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



NOTES:

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

EXOTHERMIC WELD PROCESS

NOTE

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

FIELD INSTALLATION OF POLYETHYLENE WRAP
FOR DIP PIPE AND FITTINGS.

STEP 1:

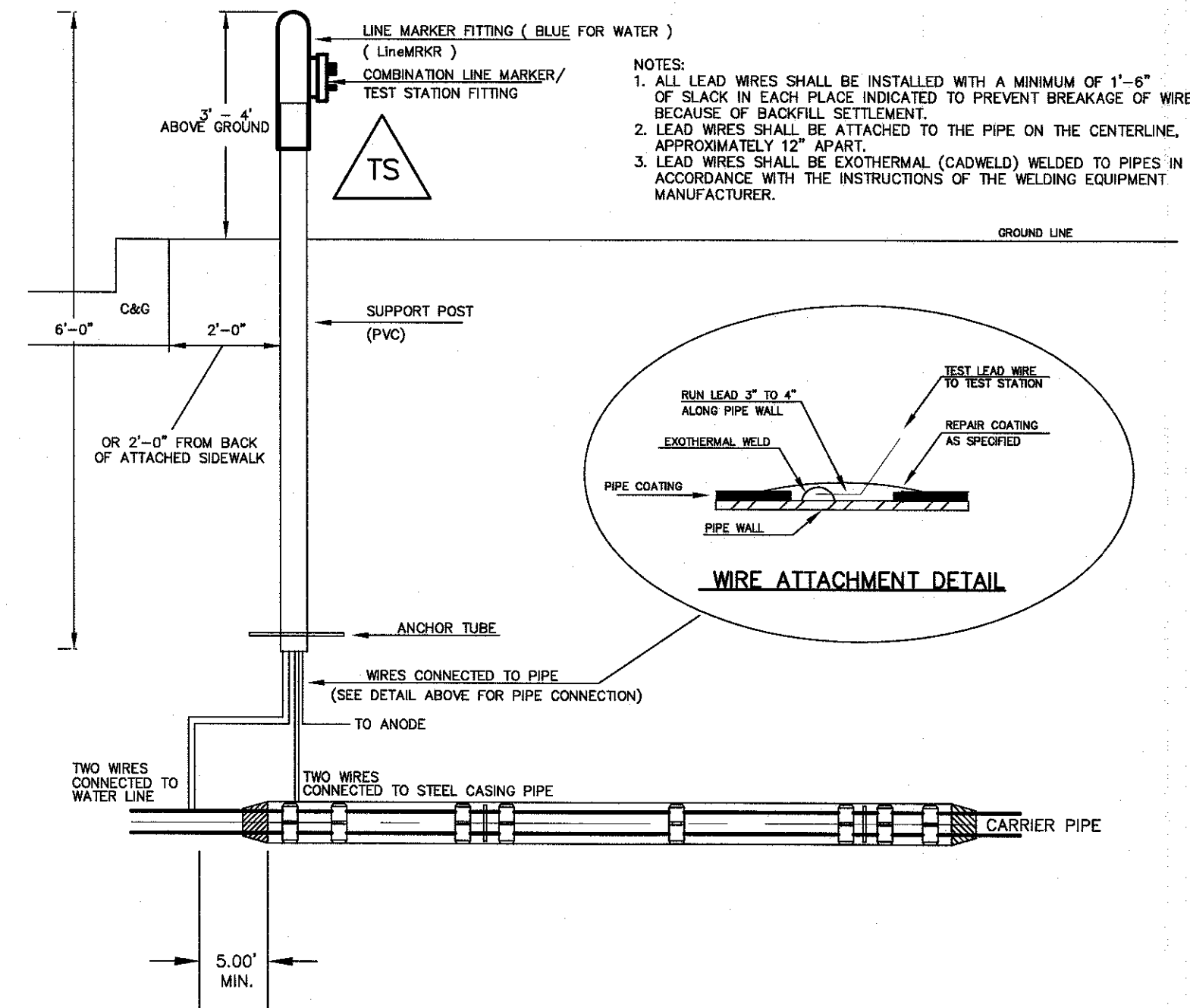
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. 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.



TYPICAL DETAIL FOR TEST STATION
WITH STEEL SLEEVE INSTALLATION

NOTES:

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

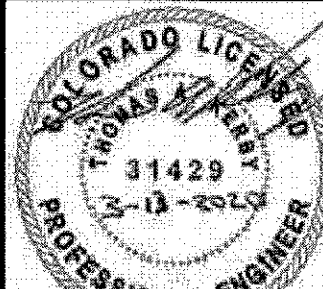
No.	Revisions	Date	Appr.	Date
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2				
3				
4				

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

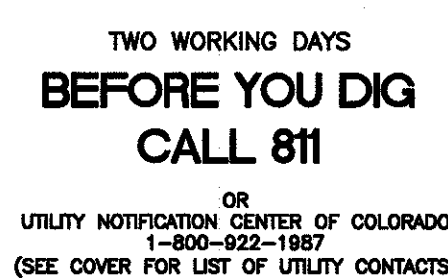
MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
DETAIL SHEET

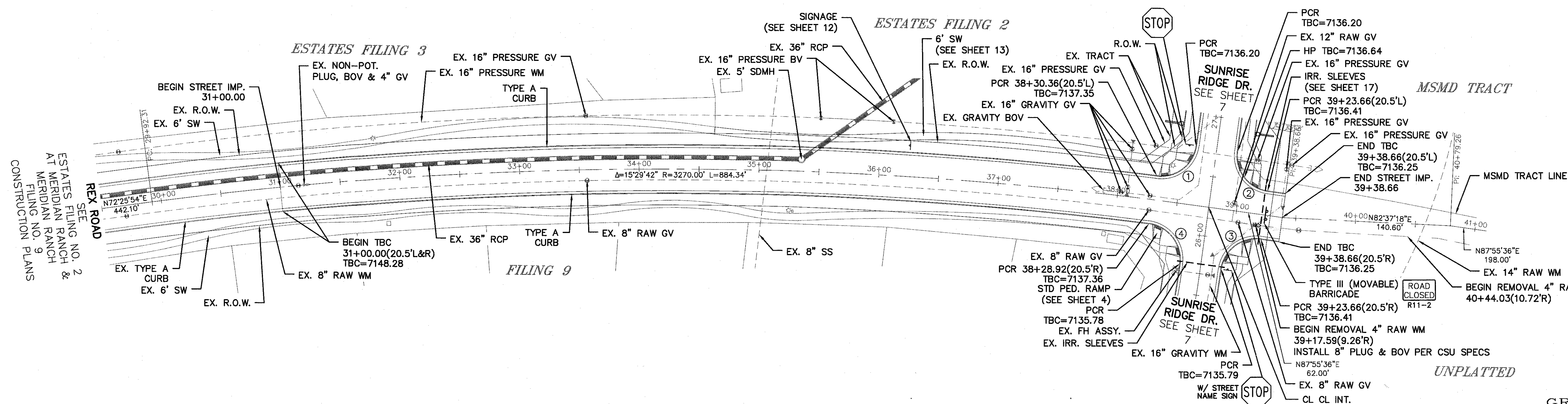
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Scale	AS SHOWN	5 of 26



EPC 6/22/2020

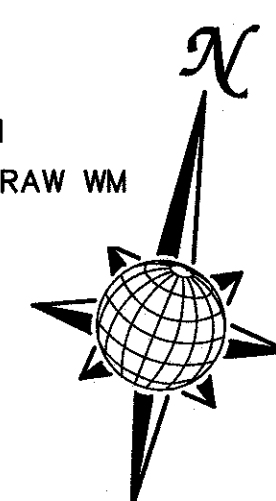


NOTE:
ALL EXISTING VALVES, MANHOLES,
HYDRANTS, ECT. TO BE ADJUSTED TO
FINISHED GRADE AS NECESSARY.

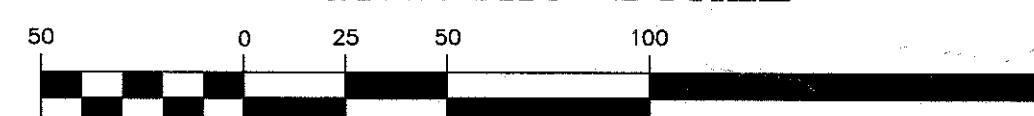


CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
1	45.92'	29.50'	89°11'20"
2	46.34'	29.50'	90°00'00"
3	46.34'	29.50'	90°00'00"
4	46.77'	29.50'	90°50'11"

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



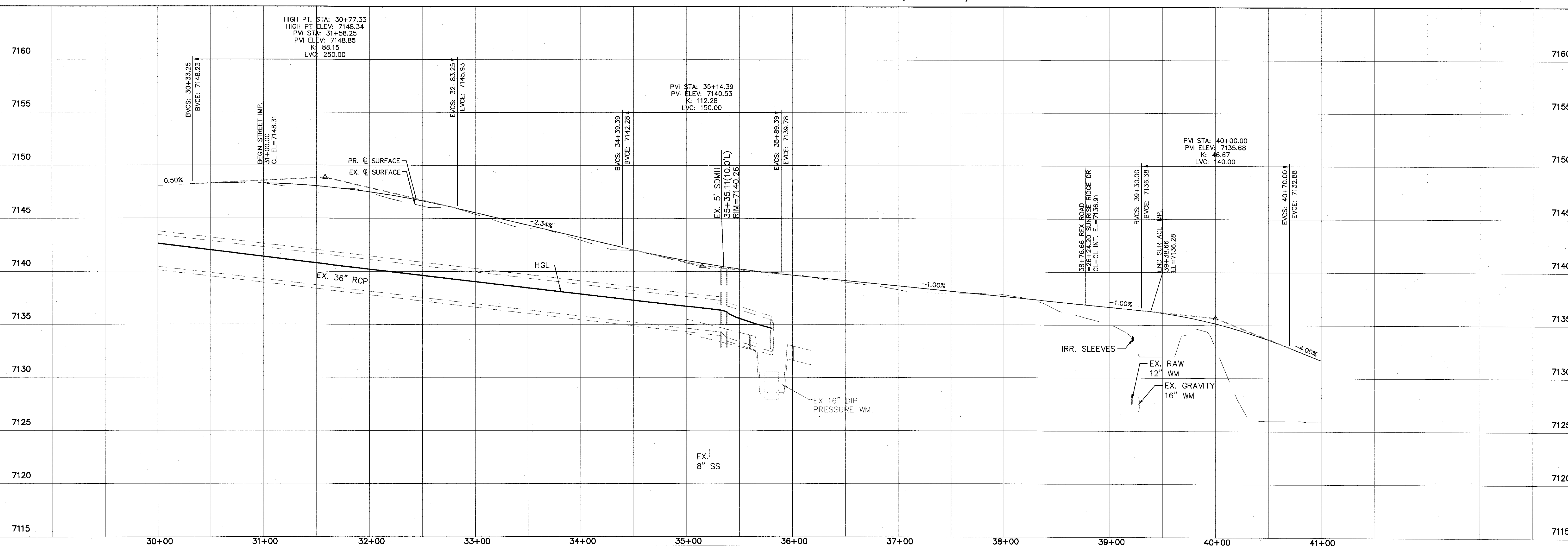
GRAPHIC SCALE



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

REX ROAD

URBAN RESIDENTIAL COLLECTOR
60' WIDE RIGHT OF WAY, 36' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



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

TECH CONTRACTORS
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FALCON, CO 80831
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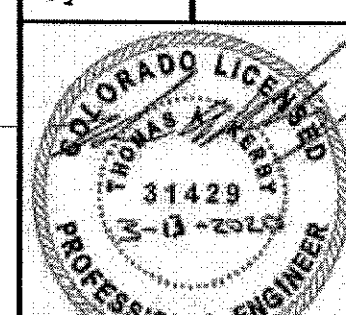


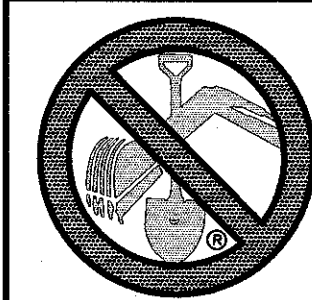
MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
REX ROAD

Drawn by LOQ	Checked by TAK	Date FEB 2020
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6	of 26

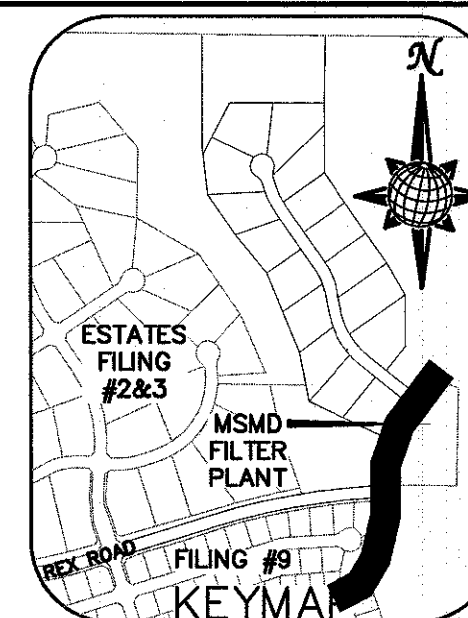
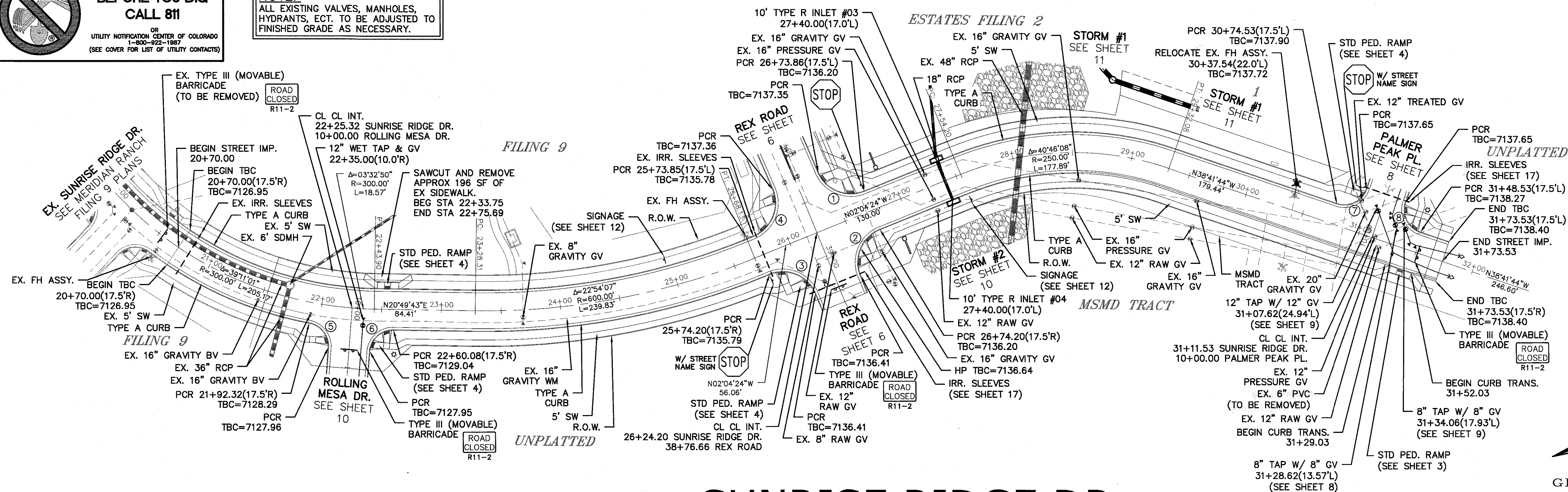




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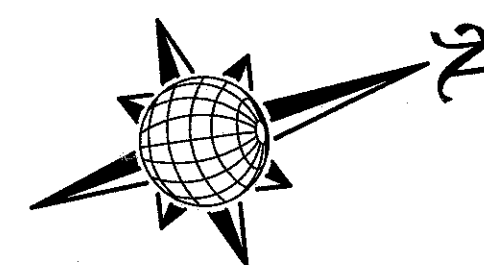
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTE:
ALL EXISTING VALVES, MANHOLES,
HYDRANTS, ECT. TO BE ADJUSTED TO
FINISHED GRADE AS NECESSARY.



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
1	45.92'	29.50'	89°11'20"
2	46.34'	29.50'	90°00'00"
3	46.34'	29.50'	90°00'00"
4	46.77'	29.50'	90°50'11"
5	28.49'	19.50'	83°41'48"
6	29.42'	19.50'	86°27'10"
7	30.63'	19.50'	90°00'00"
8	30.63'	19.50'	90°00'00"

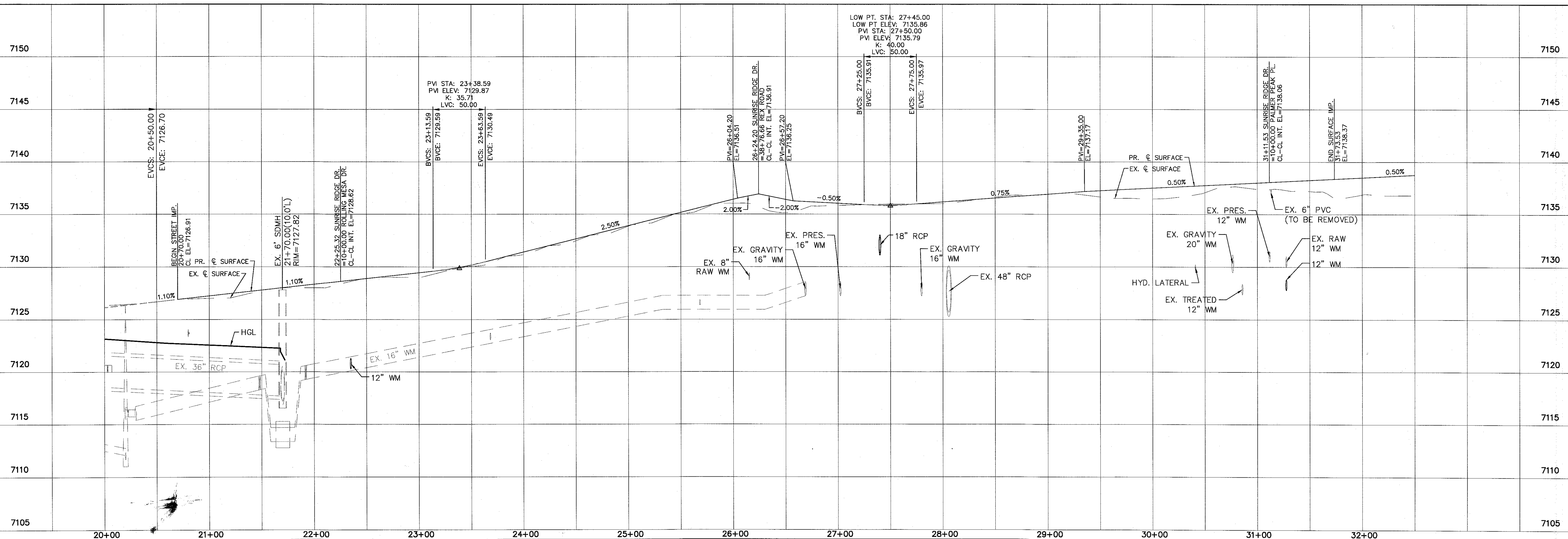
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.
1 inch = 5 ft. VERTICAL

SUNRISE RIDGE DR.

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

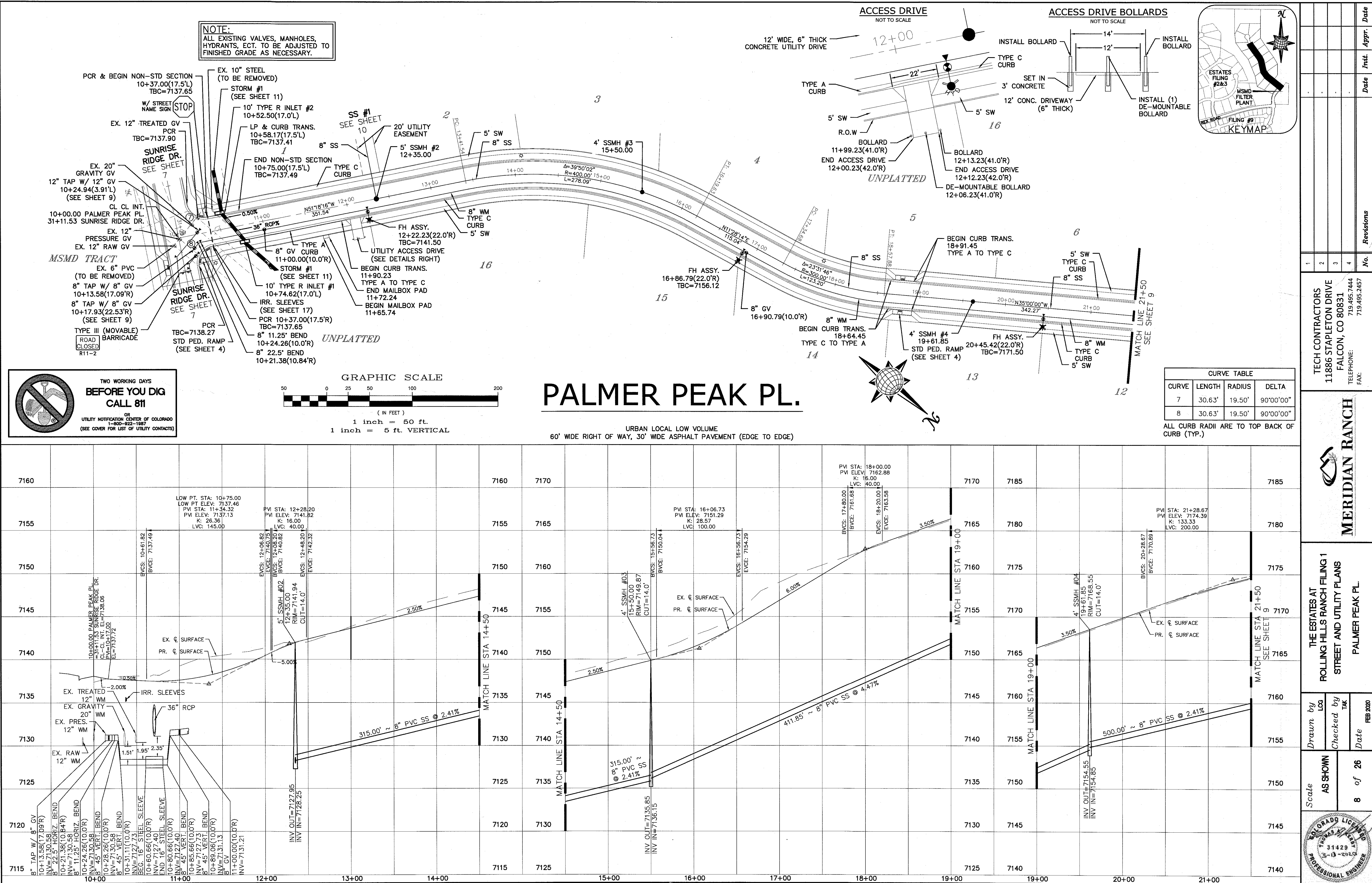


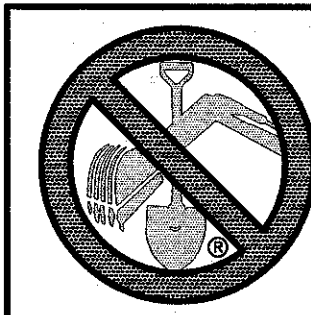
Drawn by	LOA	Checked by	TK	Date	FEB 2020
Scale	AS SHOWN	7 of 26			

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 1
STREET AND UTILITY PLANS
SUNRISE RIDGE DR.



 TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-222-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTE:
ALL EXISTING VALVES, MANHOLES,
HYDRANTS, ECT. TO BE ADJUSTED TO
FINISHED GRADE AS NECESSARY.

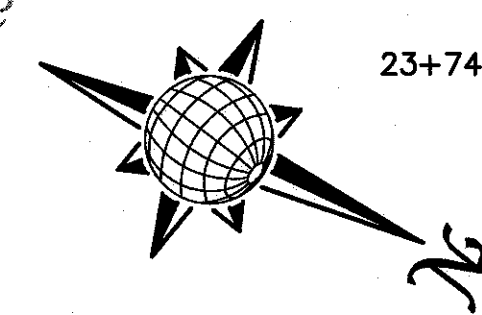
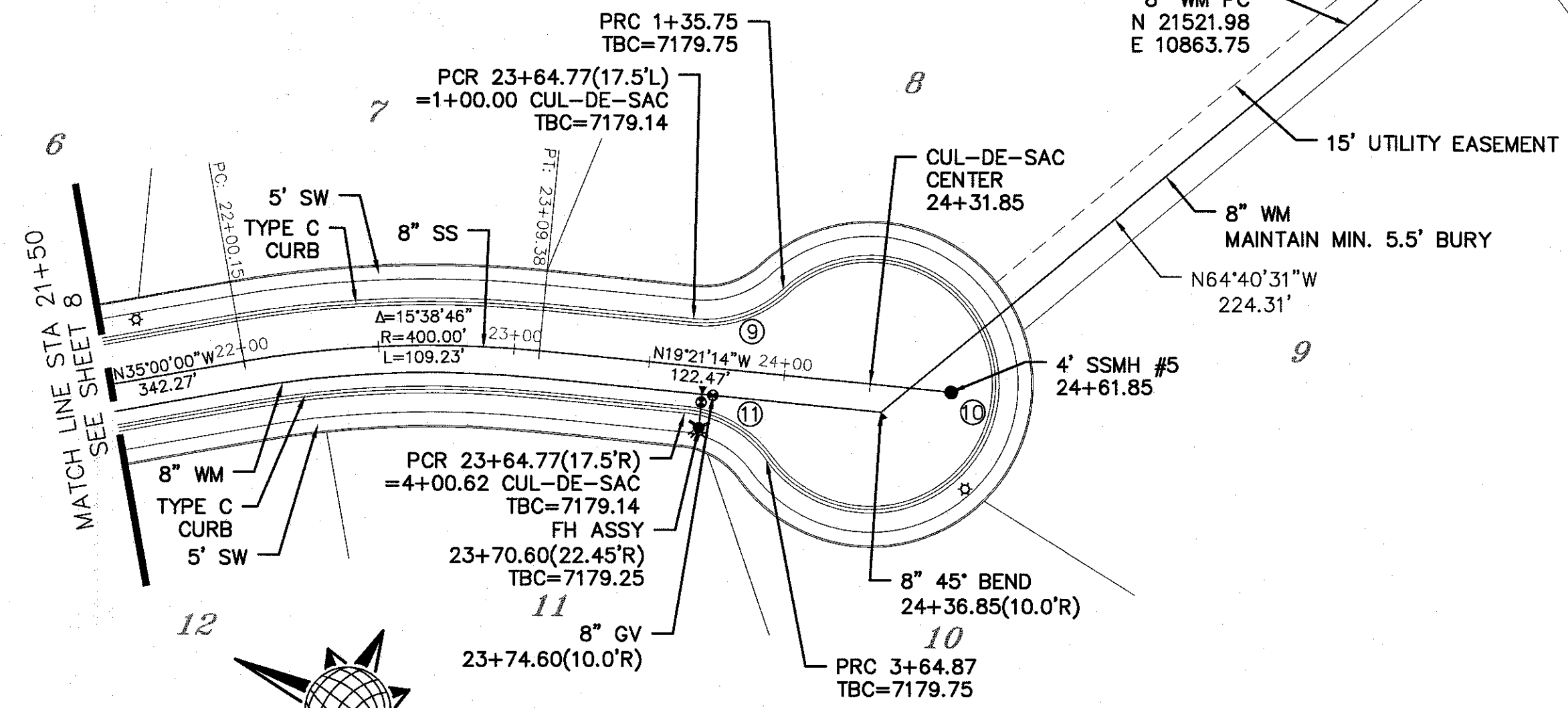
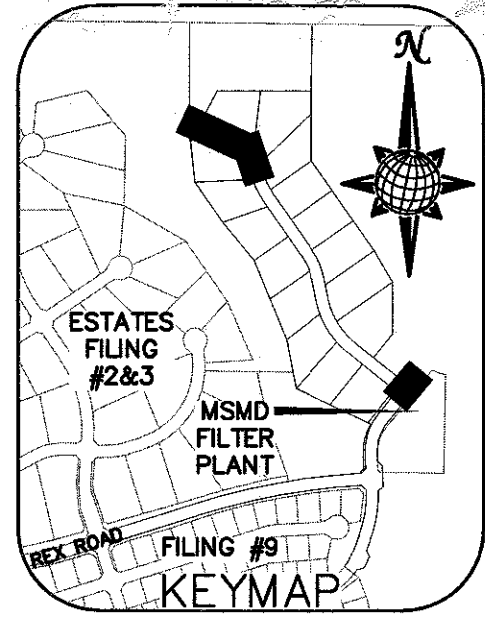
ESTATES FILING 3

TRACT B

PALMER PEAK PL.
CUL-DE-SAC
(ALL GRADES ARE TBC)

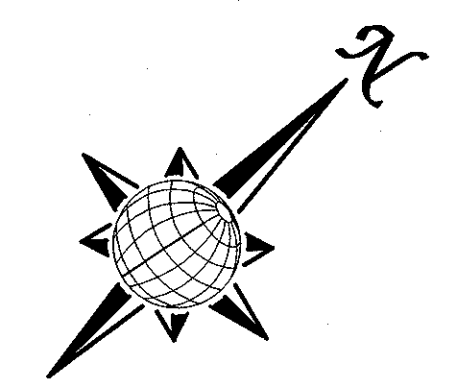
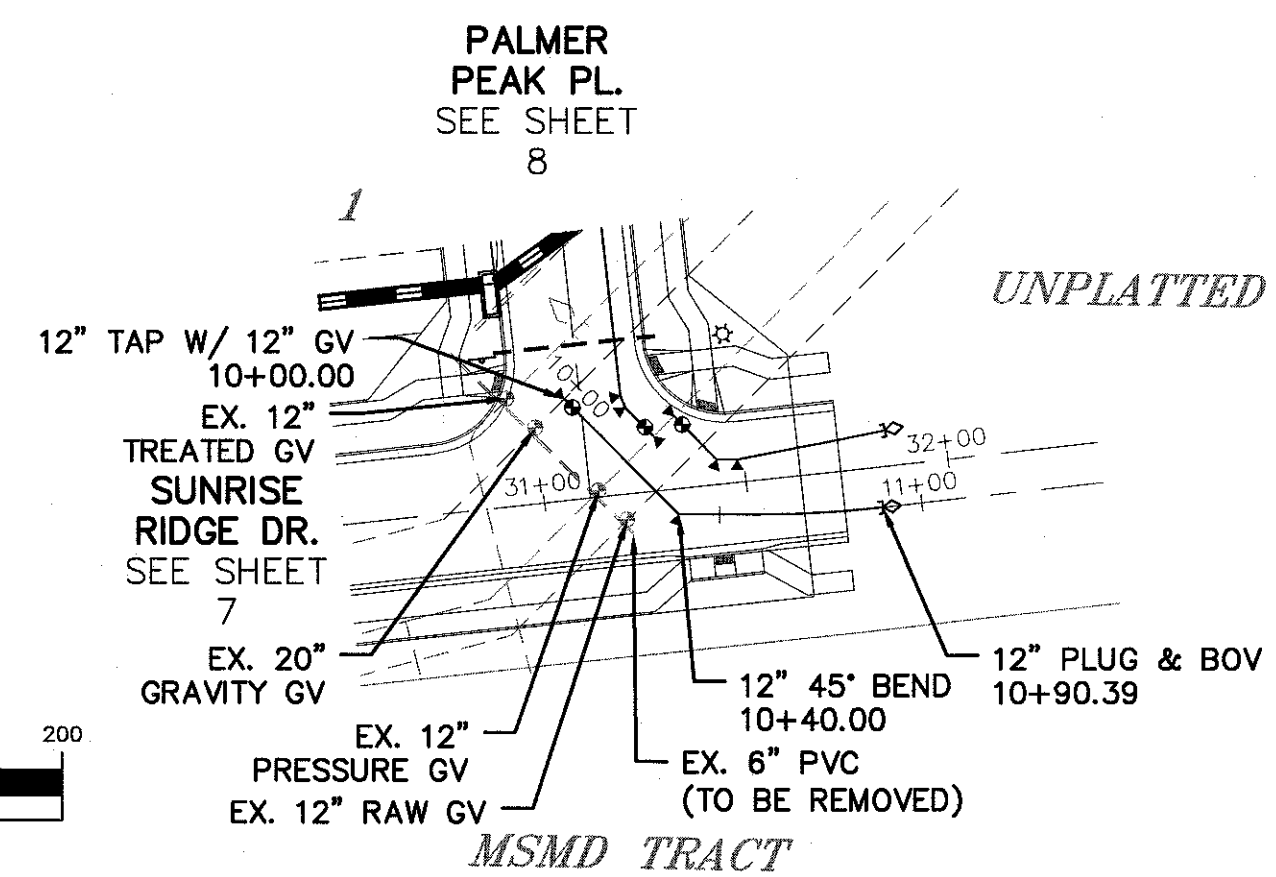
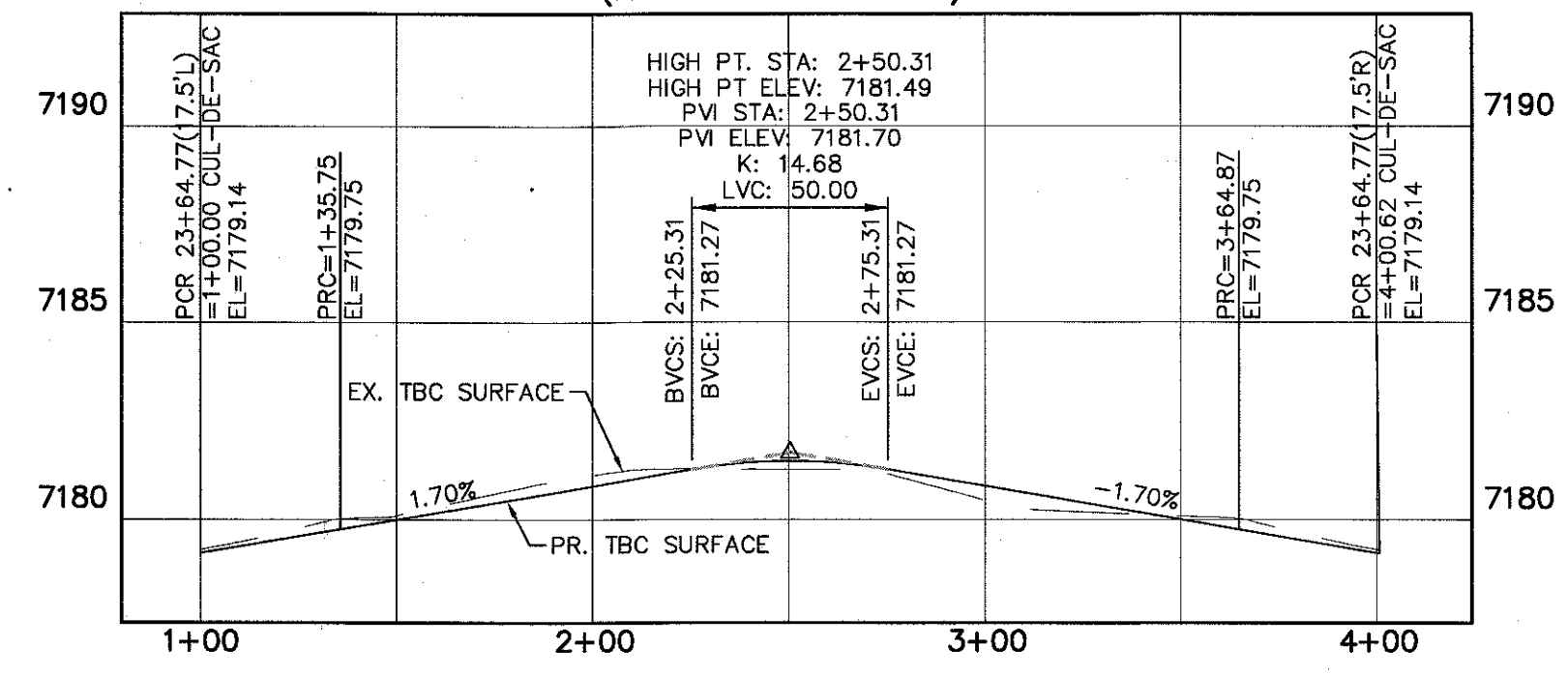
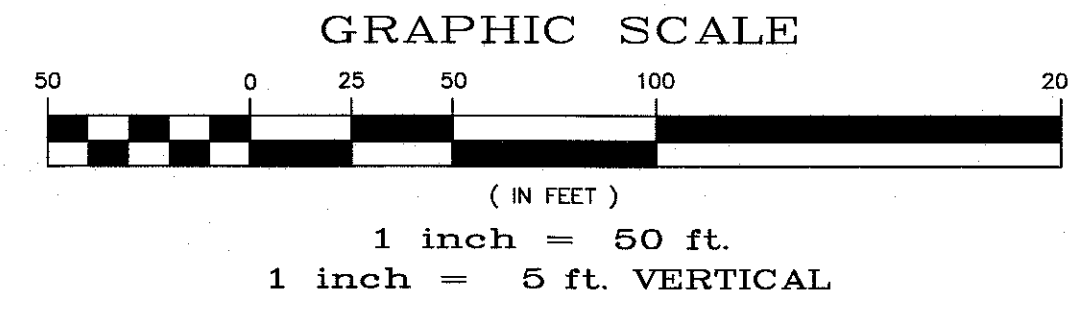
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
9	35.75'	42.50'	48°11'23"
10	229.13'	47.50'	276°22'46"
11	35.75'	42.50'	48°11'23"

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

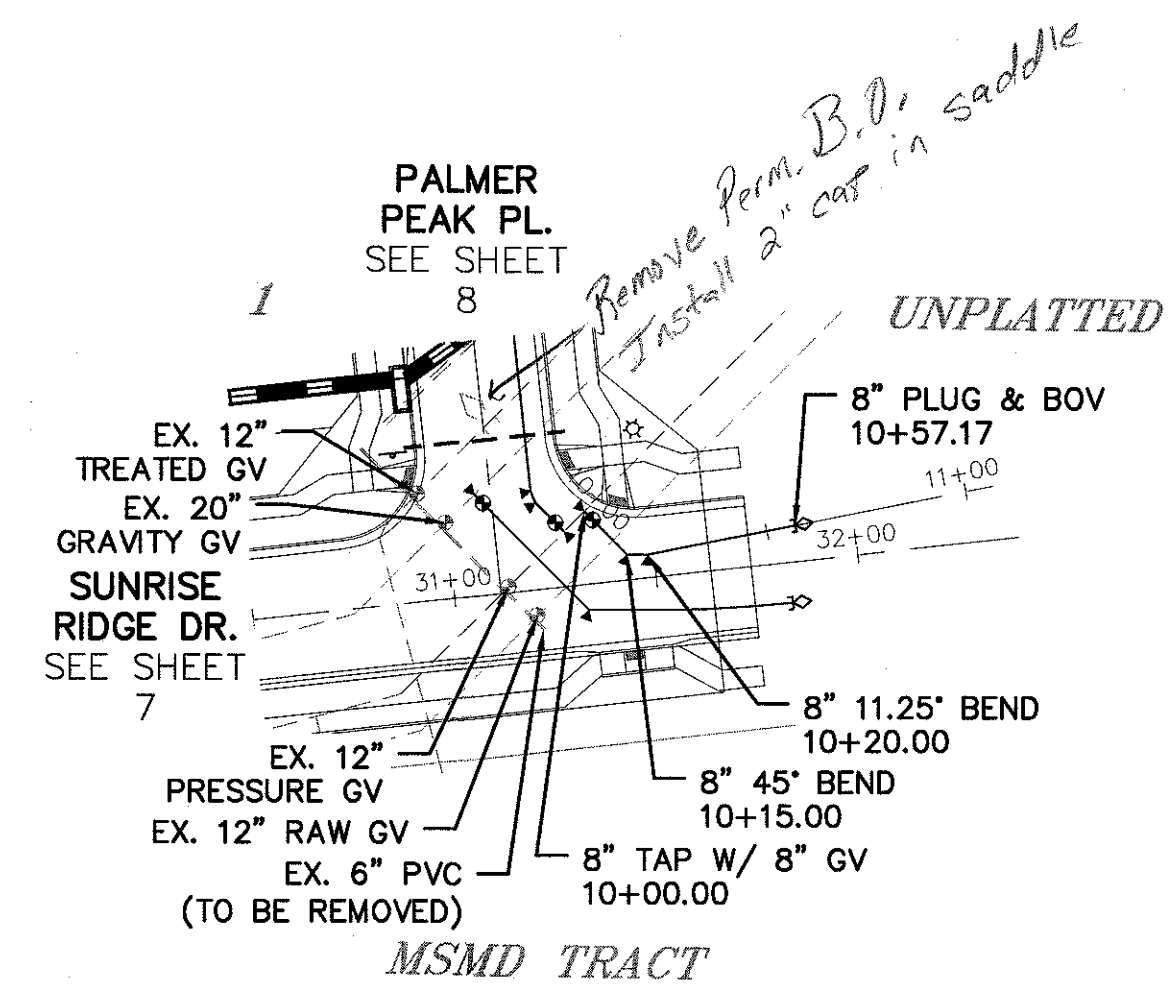


PALMER PEAK PL.

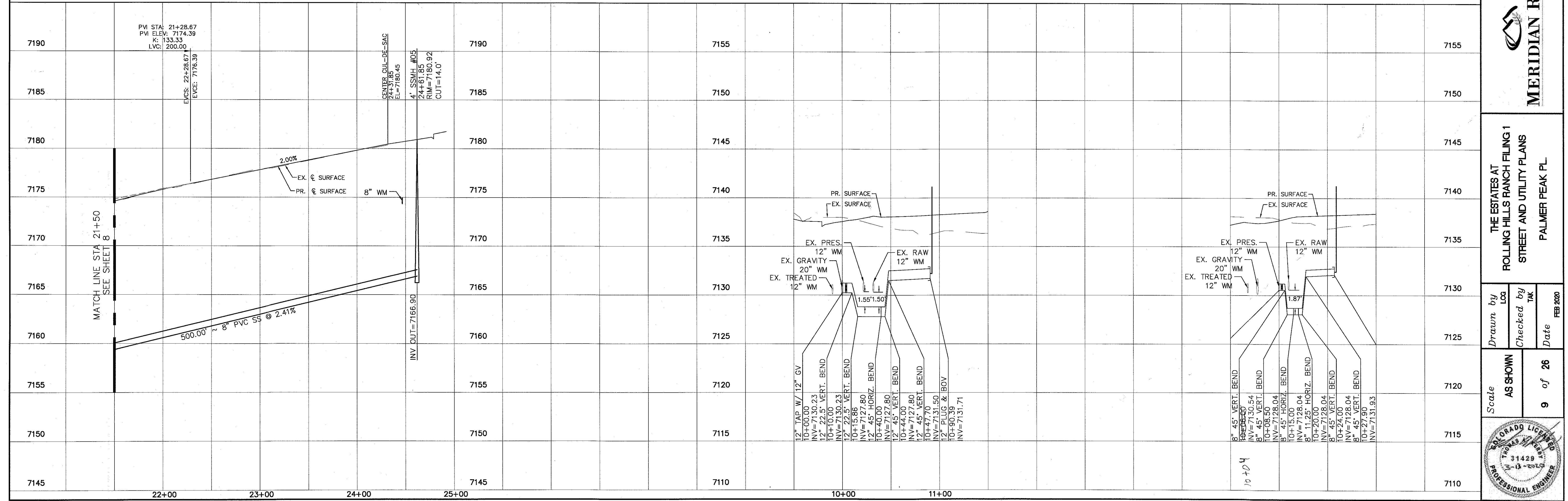
URBAN LOCAL LOW VOLUME
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



GRAVITY WM TAP



PRESSURE WM TAP



Revisions		No.	Date
1			
2			
3			
4			

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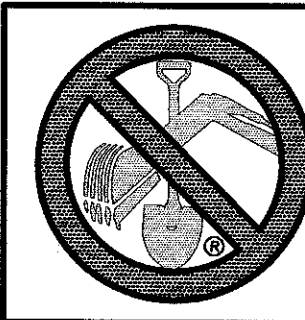
 **MERIDIAN RANCH**

THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
PALMER PEAK PL.

Drawn by	Log	Checked by	TAK	Date
AS SHOWN				FEB 2020

Scale
9 of 26

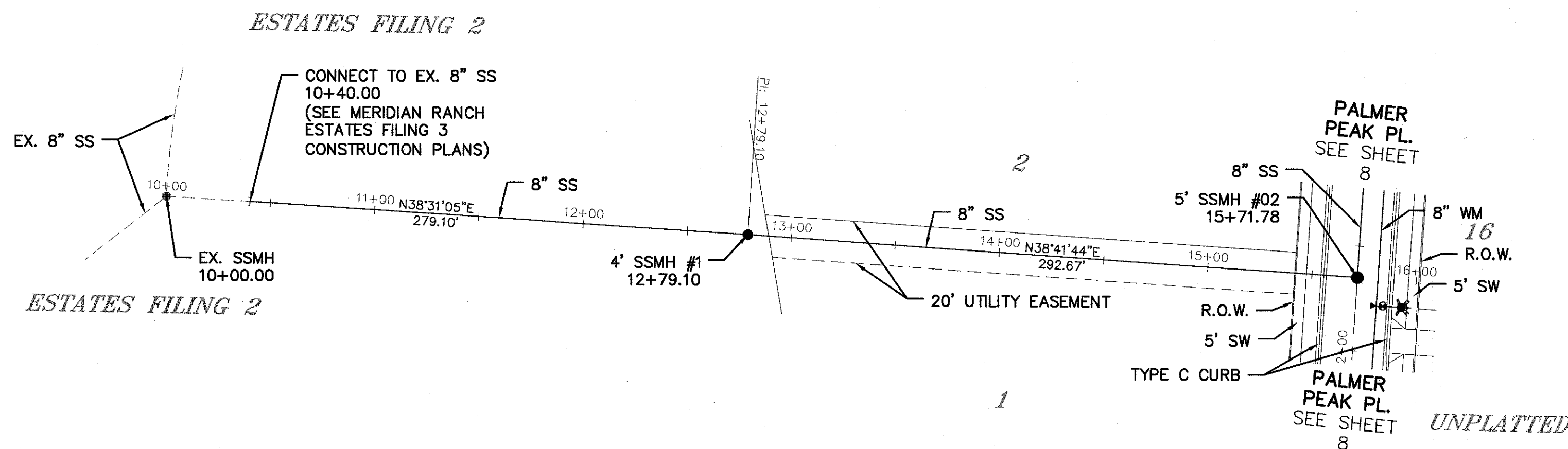
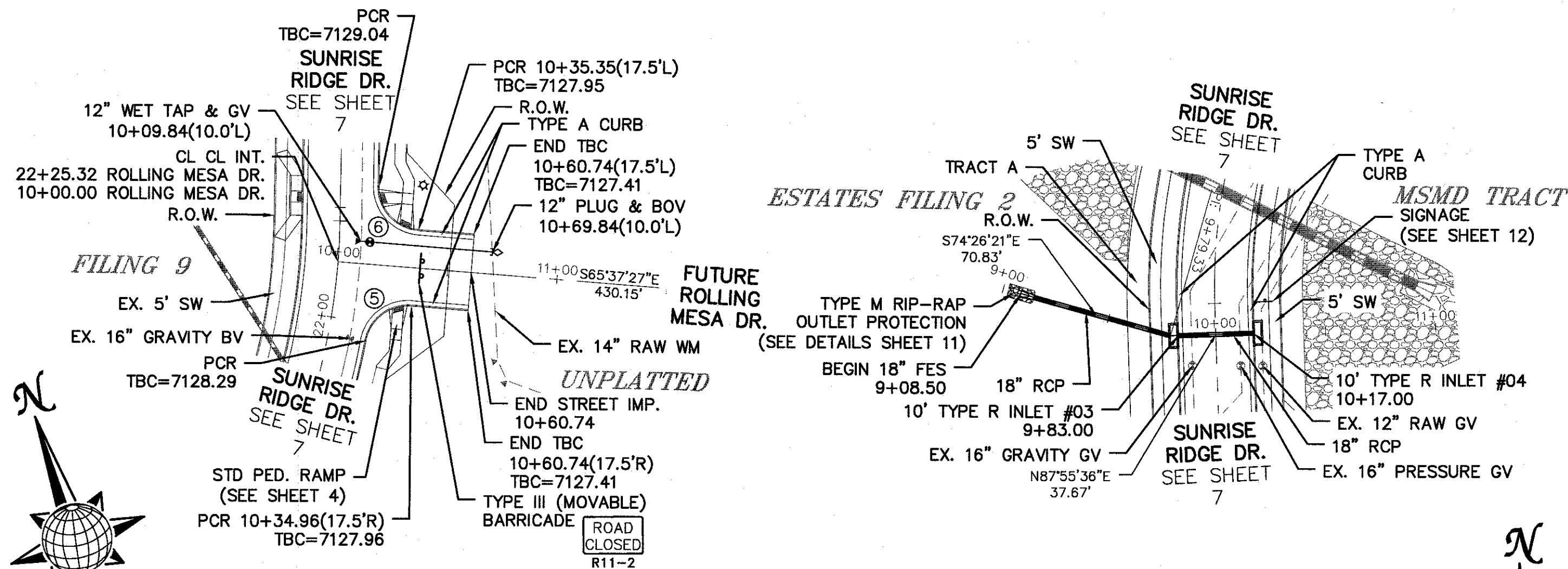
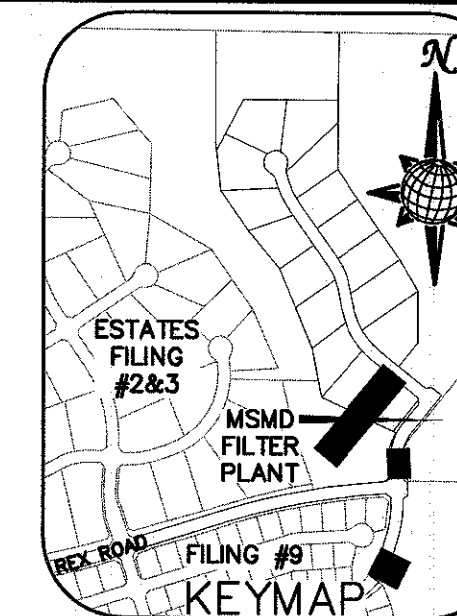


 TWO WORKING DAYS
**BEFORE YOU DIG
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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
5	28.49'	19.50'	83°41'48"
6	29.42'	19.50'	86°27'10"

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

NOTE:
ALL EXISTING VALVES, MANHOLES, HYDRANTS, ECT. TO BE ADJUSTED TO FINISHED GRADE AS NECESSARY.

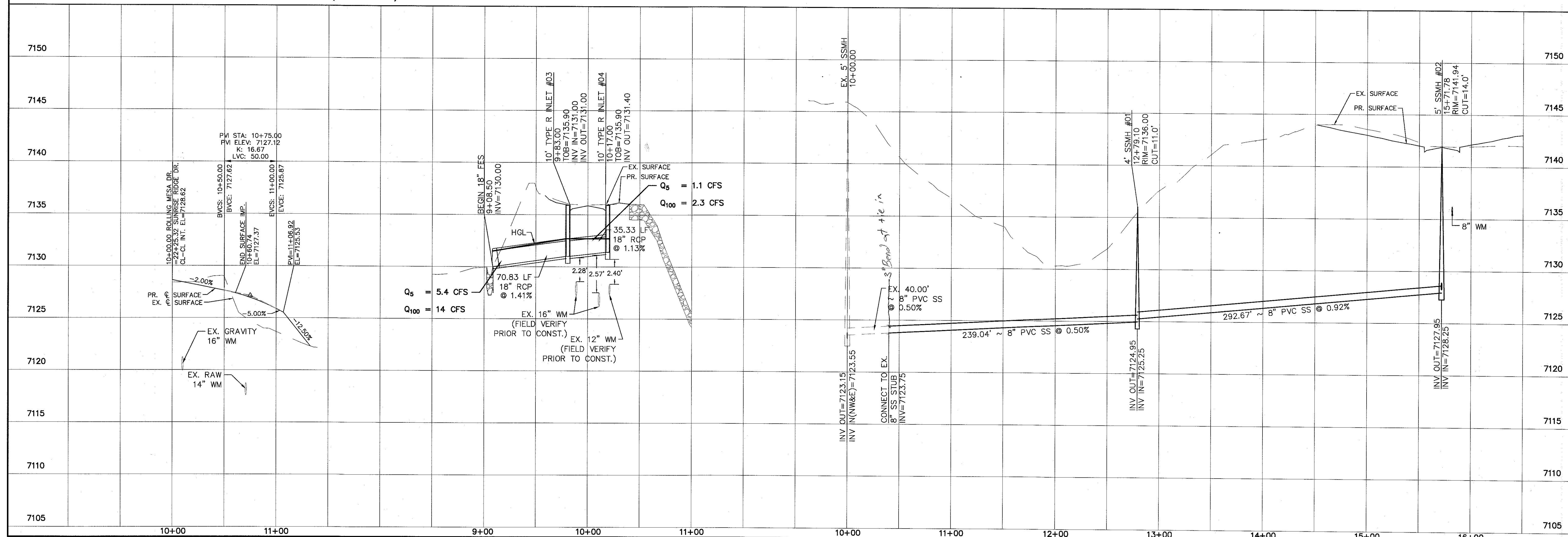
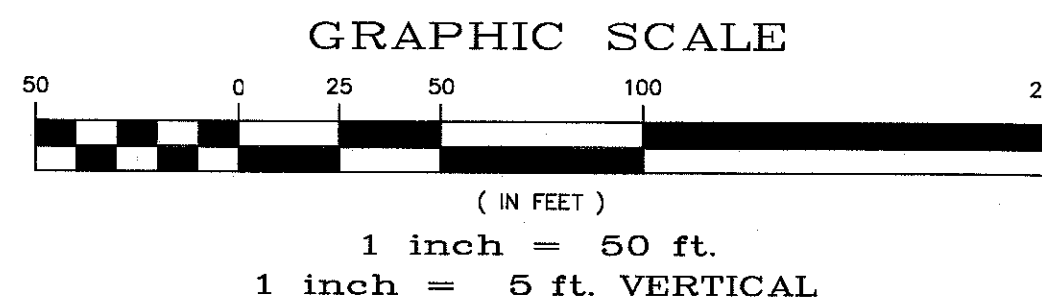


ROLLING MESA DR.

STORM #2

SS #1

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

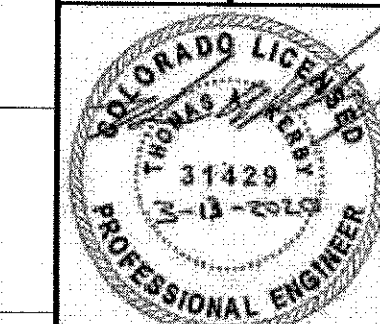


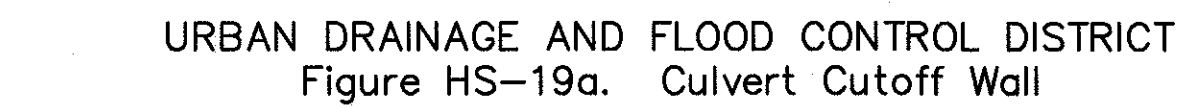
Scale		Drawn by	Log	Checked by	TAK	Date
AS SHOWN						FEB 2020
10 of 26						

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FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

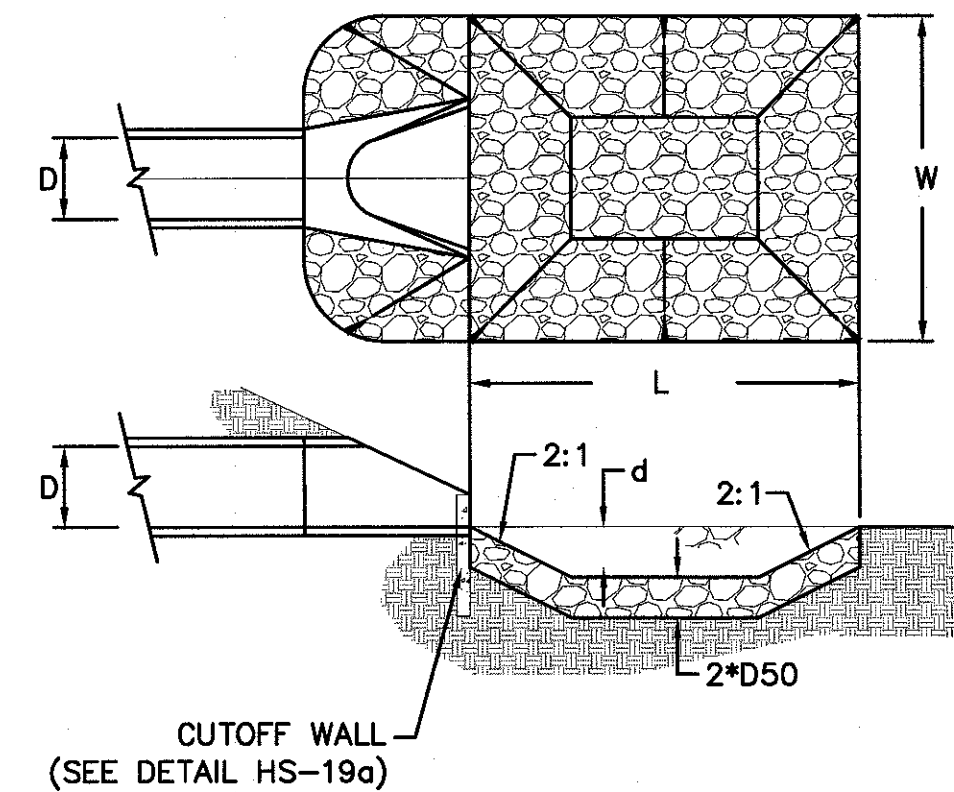
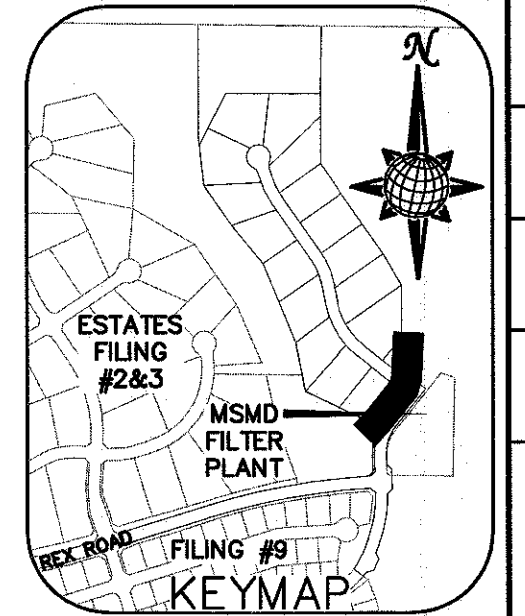
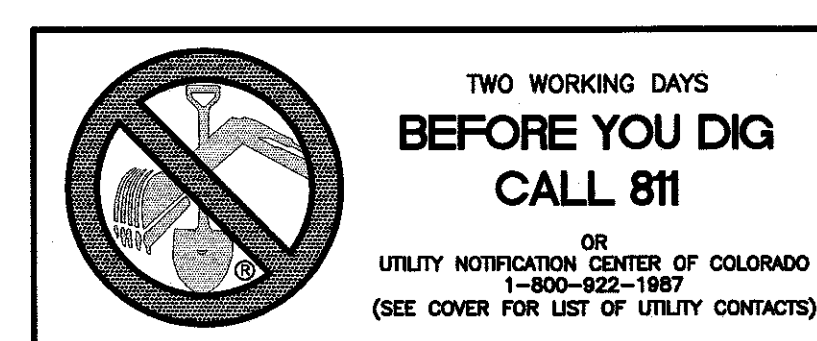
MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
ROLLING MESA DR.





NOTE:
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HYDRANTS, ECT. TO BE ADJUSTED TO
FINISHED GRADE AS NECESSARY.



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

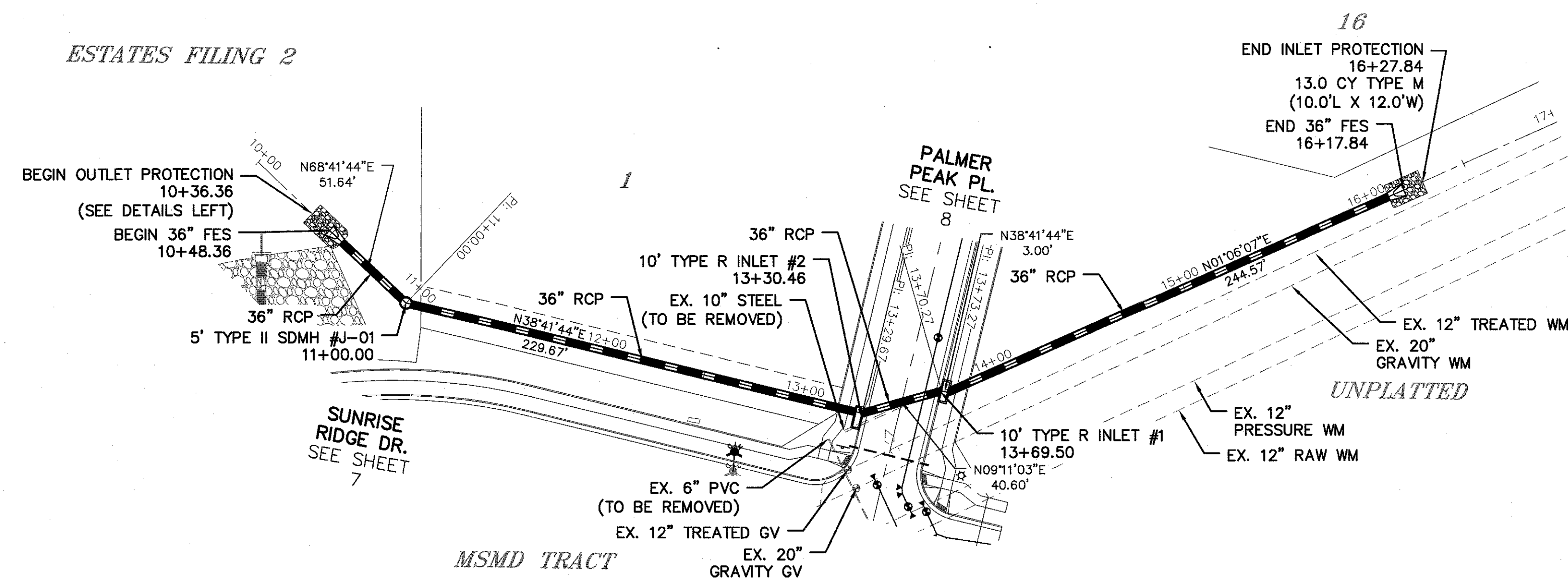
NOTES:

1. Headwall with wingwalls or flared end section required at all culvert outlets.
2. Provide joint fasteners for flared end sections.

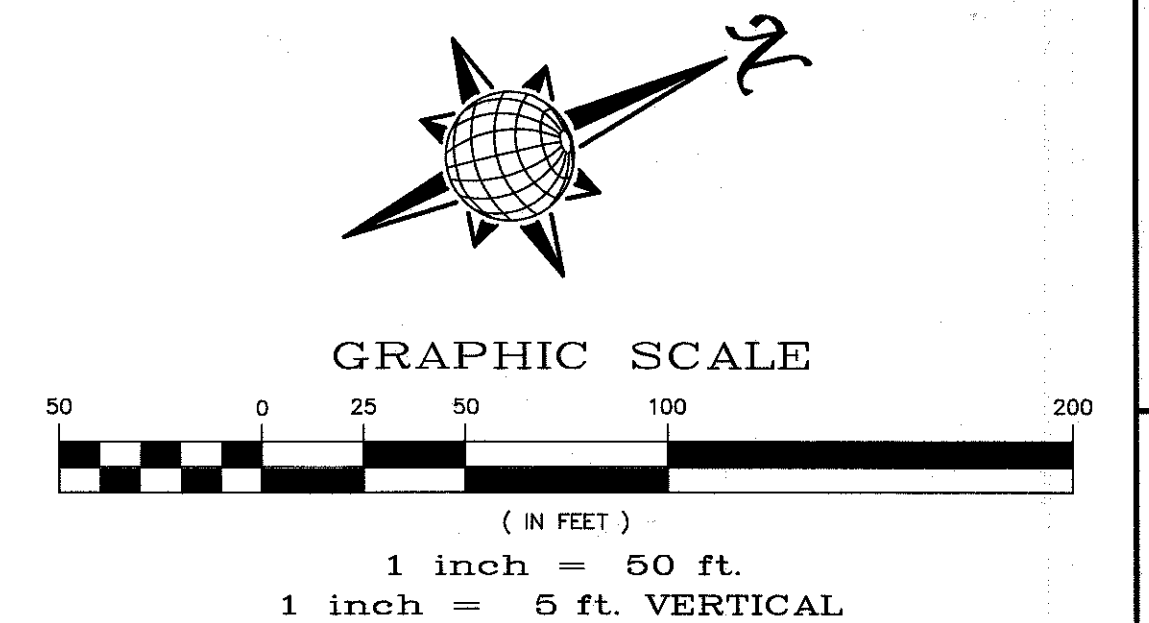
STORM #1 & 2

OUTLET PROTECTION DETAIL

		N/S								
		PIPE OUTLET	L	W	d	TYPE	D ₉₀	CY	Y	NOTES
STORM #1		36"	12.0	12.0	1.5	M	1.0'	14.5	3.0'	SEE ABOVE
STORM #2		18"	6.0	6.0	0.75	M	1.0'	4.2	2.5'	SEE ABOVE



STORM #1



Sanitary Sewerage Collection System Plan View

Stationing: 10+00 to 17+00

Key Features:

- Manhole #1-01:** 15' TYPE II SDMH #1-01, 10+00.00, INV IN=7128.50, INV OUT=7128.75
- Manhole #2:** 10' TYPE R INLET #02, 13+30.46, TOB=7137.41, INV IN=7131.10, INV OUT=7131.10
- Manhole #01:** 10' TYPE R INLET #01, 13+69.50, TOB=7137.49, INV IN=7131.50, INV OUT=7131.50
- Flow Data:**
 - Between Manhole #1-01 and #2: $Q_5 = 11$ CFS, $Q_{100} = 47$ CFS
 - Between Manhole #2 and #01: $Q_5 = 9$ CFS, $Q_{100} = 40$ CFS
 - Between Manhole #01 and END: $Q_5 = 5.3$ CFS, $Q_{100} = 32$ CFS
- Pipe Segments:**
 - 40.99 LF 36" RCP @ 1.53%
 - 224.17 LF 36" RCP @ 1.05%
 - 40.60 LF 36" RCP @ 0.98%
 - 236.42 LF 36" RCP @ 3.07%
- Other Notes:**
 - BEGN 36" FFS 10+48.36, INV=7128.00
 - END 36" FFS 16+17.84, INV=7139.00
 - EX. SURFACE, PR. SURFACE, HGL, 8" WM LOWERING

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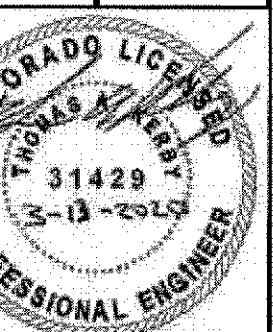


ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
STORM #1

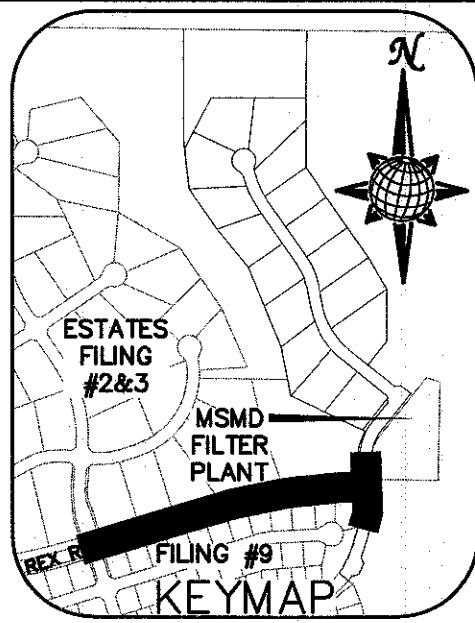
LOG	Checked by	TAK	FEB 2020
	Date		

AS SHOWN

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NOTE:
DOTTED LINES TO BE
2' LONG WITH 4' SPACING
PER MUTCD STANDARD



SIGNING AND STRIPING NOTES:

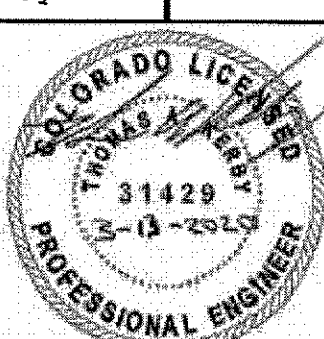
1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT 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.

11/13/2019

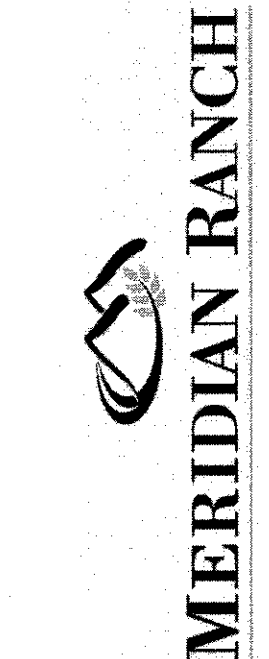
THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
SIGNAGE AND STRIPING

Drawn by
LOA
Checked by
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Date
FEB 2020

Scale
AS SHOWN
12 of 26

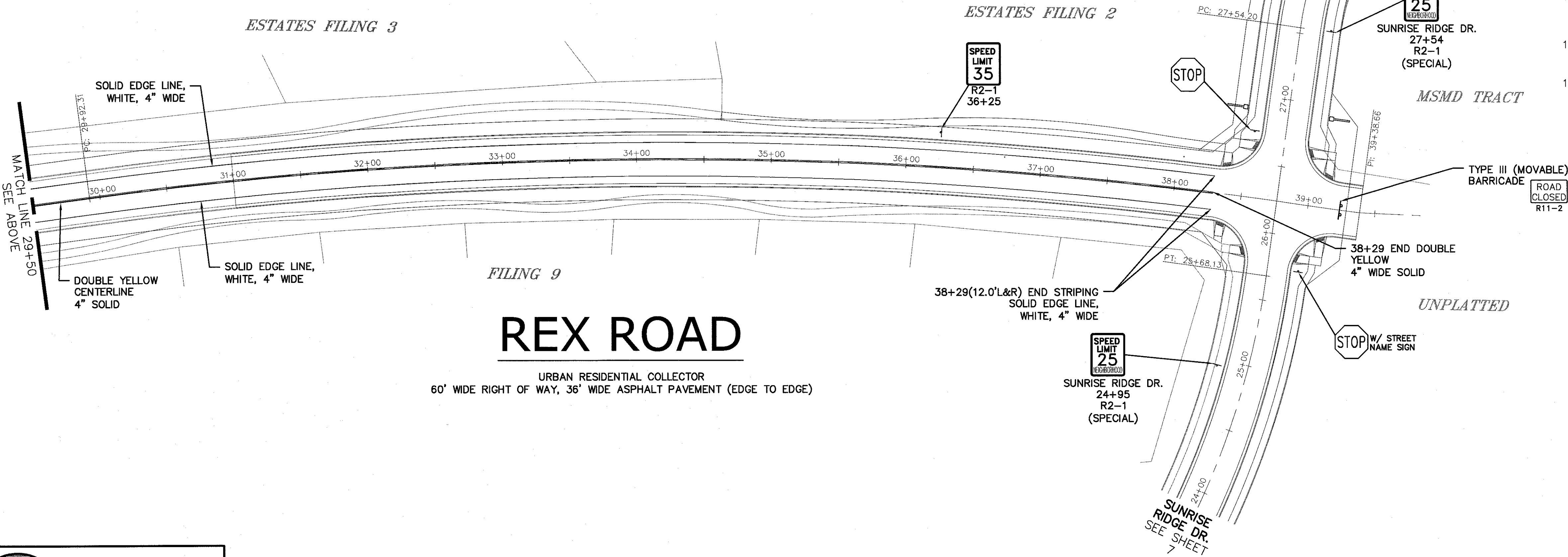
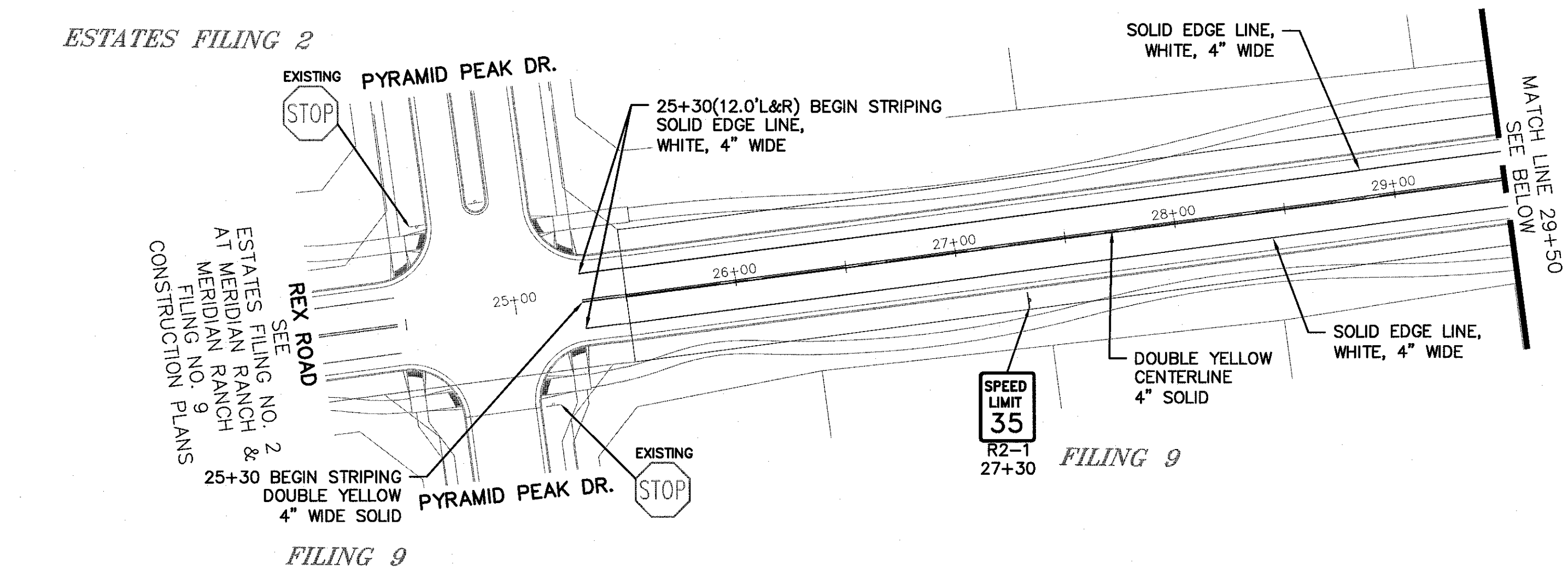


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ESTATES FILING 2

ESTATES FILING 3

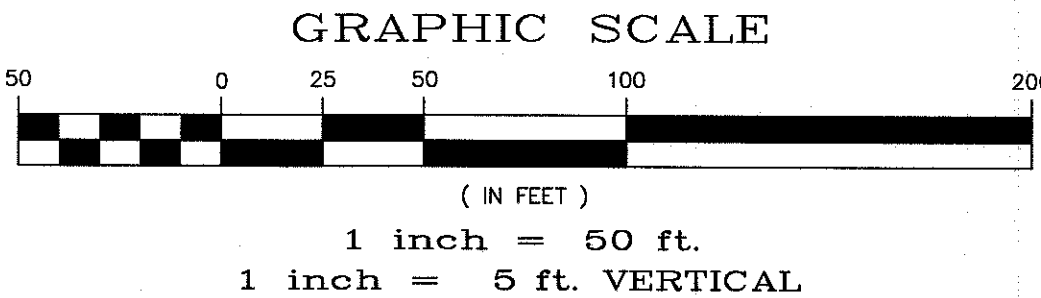
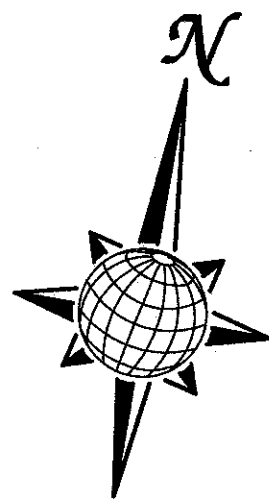


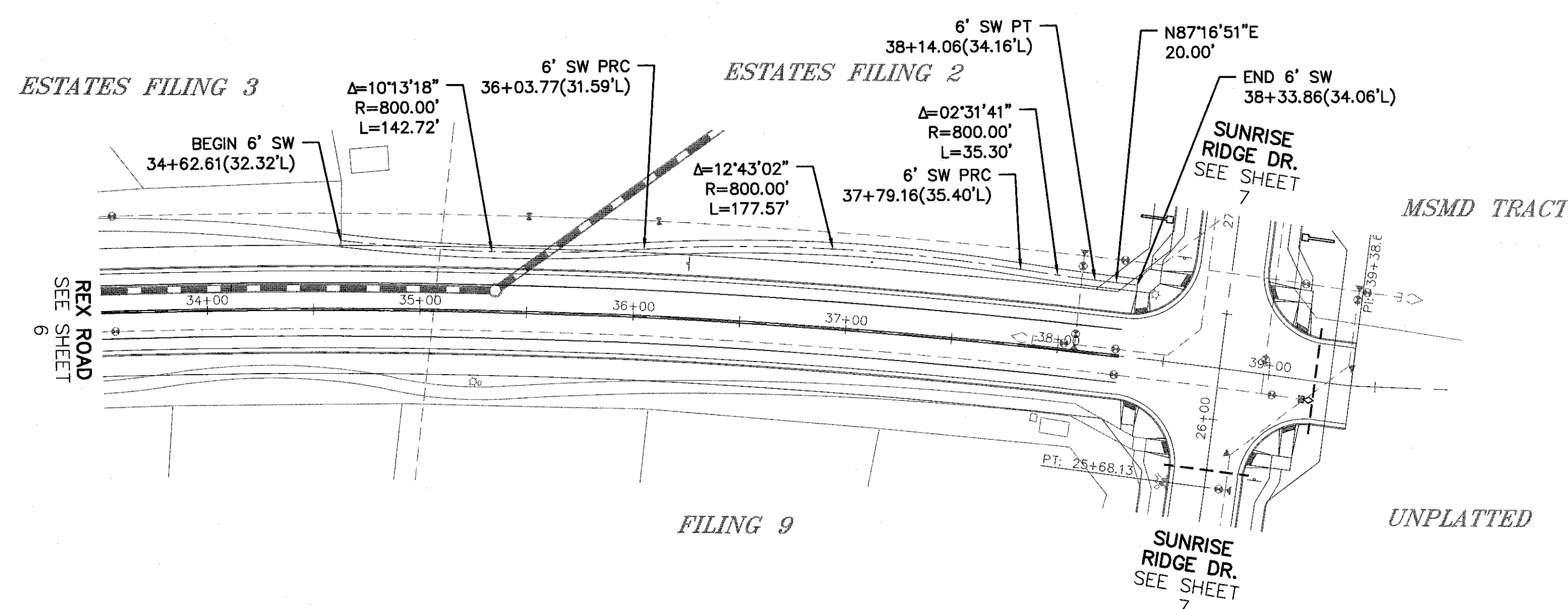
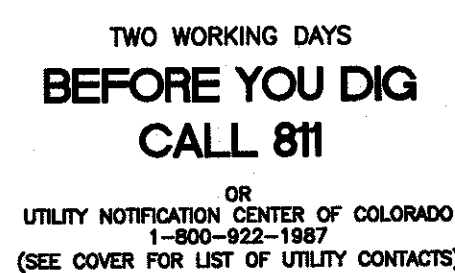
REX ROAD

URBAN RESIDENTIAL COLLECTOR
60' WIDE RIGHT OF WAY, 36' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

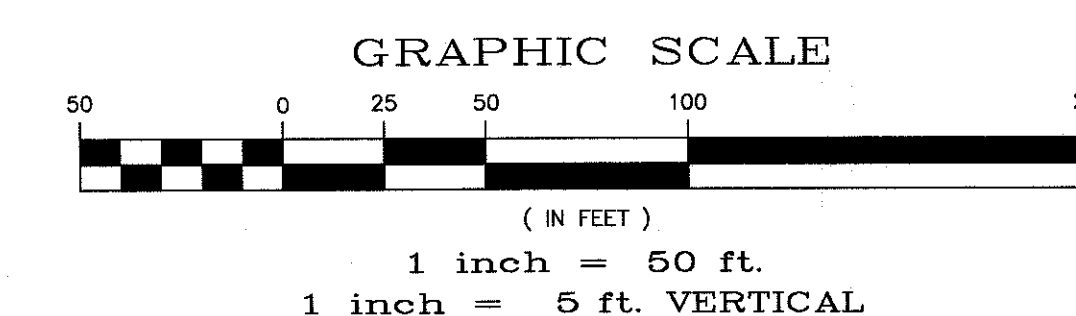




TWO WORKING DAYS
BEFORE YOU DIG
CALL 811
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTACTS)

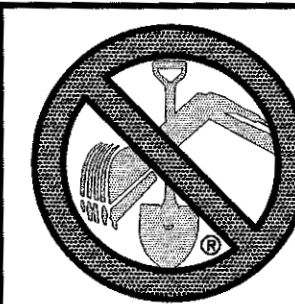




REX ROAD



	Scale AS SHOWN	Drawn by	LOO	THE ESTATES AT ROLLING HILLS RANCH FILING 1 STREET AND UTILITY PLANS SIDEWALK PLAN	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831		1										
		Checked by	TAK			TELEPHONE: 719.495.7444 FAX: 719.495.2457		2										
	13 of 26	Date									3							
													4					



TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-622-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

UNPLATTED

NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING
UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)MERIDIAN SERVICE METRO DISTRICT WATER
PLANT SITE PLAN & FLOOR PLAN
2)MERIDIAN RANCH FILING 9
3)THE ESTATES FILING 2 AT MERIDIAN RANCH
4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE

NOTE:
8" SS UNLESS OTHERWISE LABELED.

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

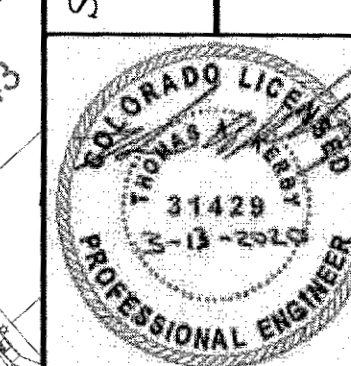
TECH CONTRACTORS
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FAX: 719.495.2457



THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
OVERALL SANITARY SEWER

Drawn by
LOG
Checked by
TK
Date
FEB 2020

Scale
AS SHOWN
14 of 26



GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.

UNPLATTED

ESTATES
FILING 2

ESTATES
FILING 3

ESTATES
FILING 9

MSMD
TRACT

TRACT B

TRACT A

4' SSMH #5

4' SSMH #4

5' SSMH #2

4' SSMH #3

4' SSMH #1

REMOVE PLUG
CONNECT TO EX. 8" SS

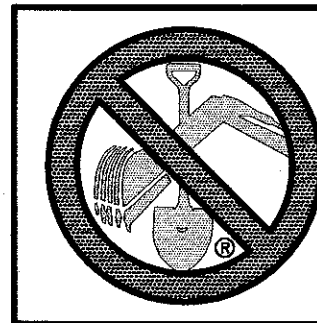
PALMER PEAK PL.

PALMER PEAK PL.

SUNRISE RIDGE DR.

SUNRISE RIDGE DR.

REX ROAD



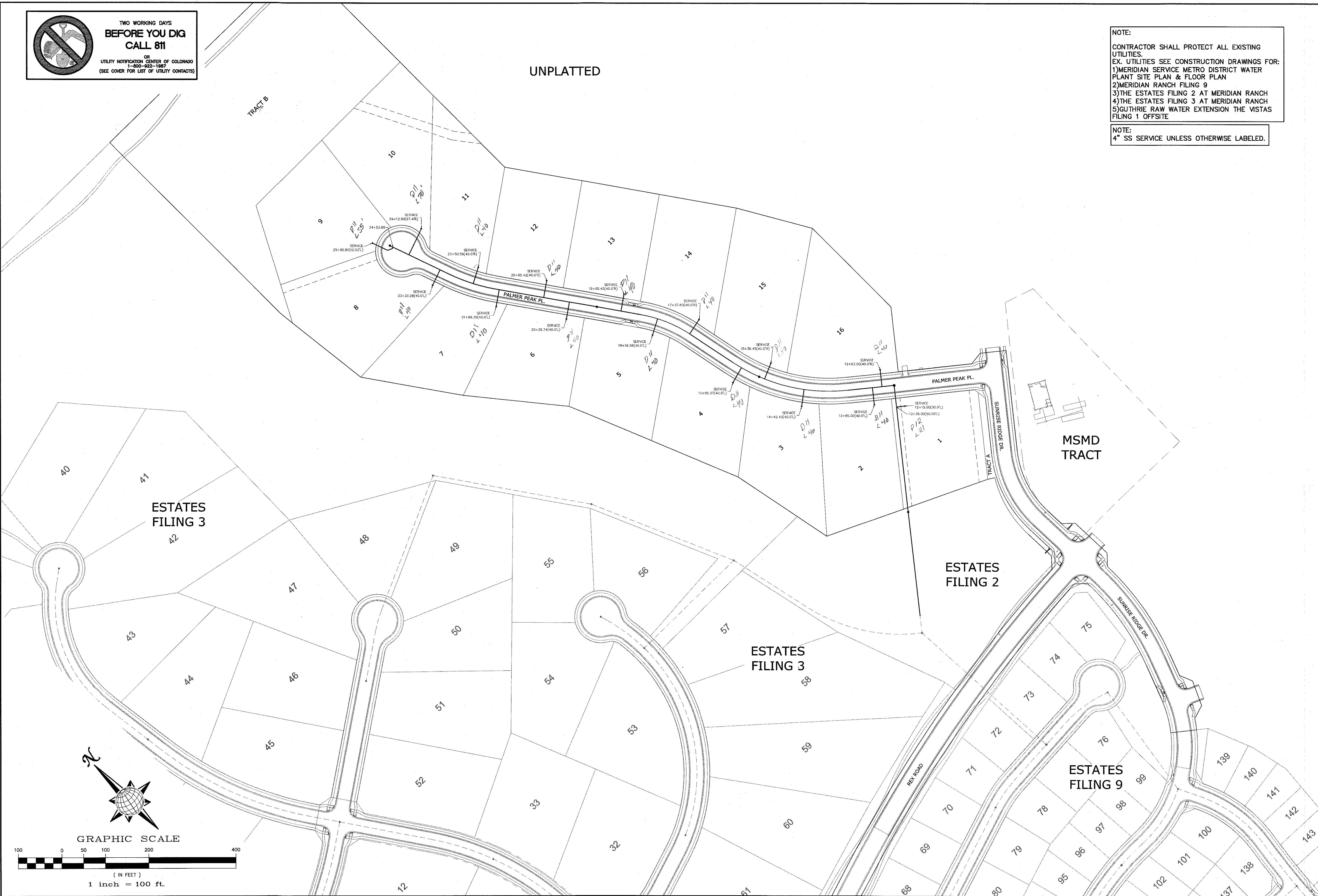
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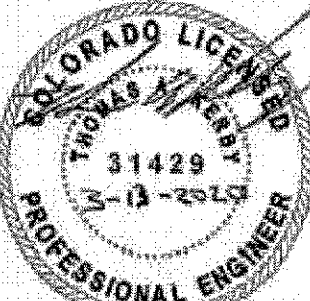
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1087
(SEE COVER FOR LIST OF UTILITY CONTACTS)

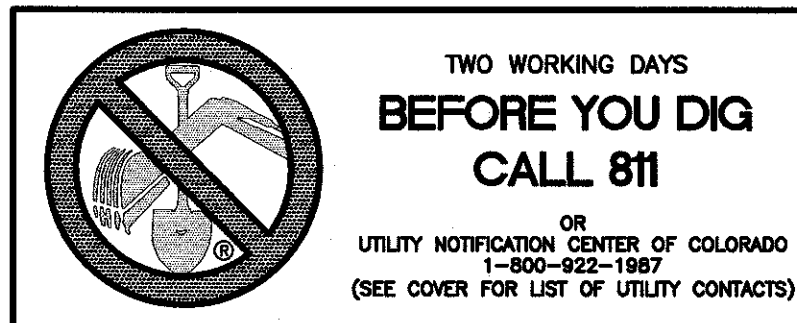
UNPLATTED

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)MERIDIAN SERVICE METRO DISTRICT WATER PLANT SITE PLAN & FLOOR PLAN
2)MERIDIAN RANCH FILING 9
3)THE ESTATES FILING 2 AT MERIDIAN RANCH
4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE

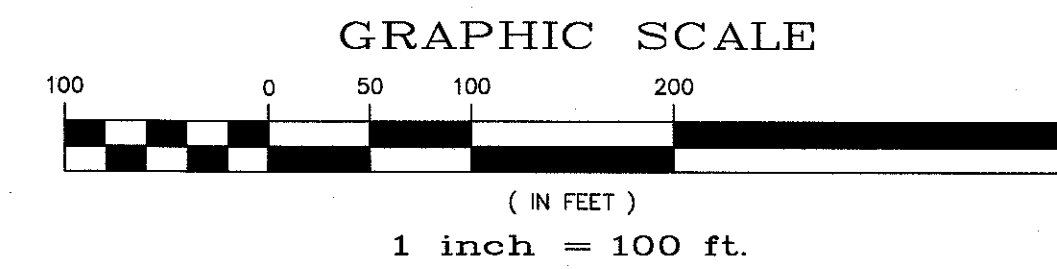
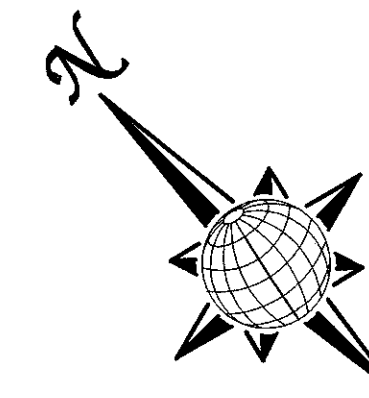
NOTE:
4" SS SERVICE UNLESS OTHERWISE LABELED.



1	2	3	4	No.	Revisions	Date	Instr.	Appr.	Date
<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 1 STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES</p>									
Scale	AS SHOWN	Drawn by LCS	Checked by TK	Date FEB 2020					
15 of 26									

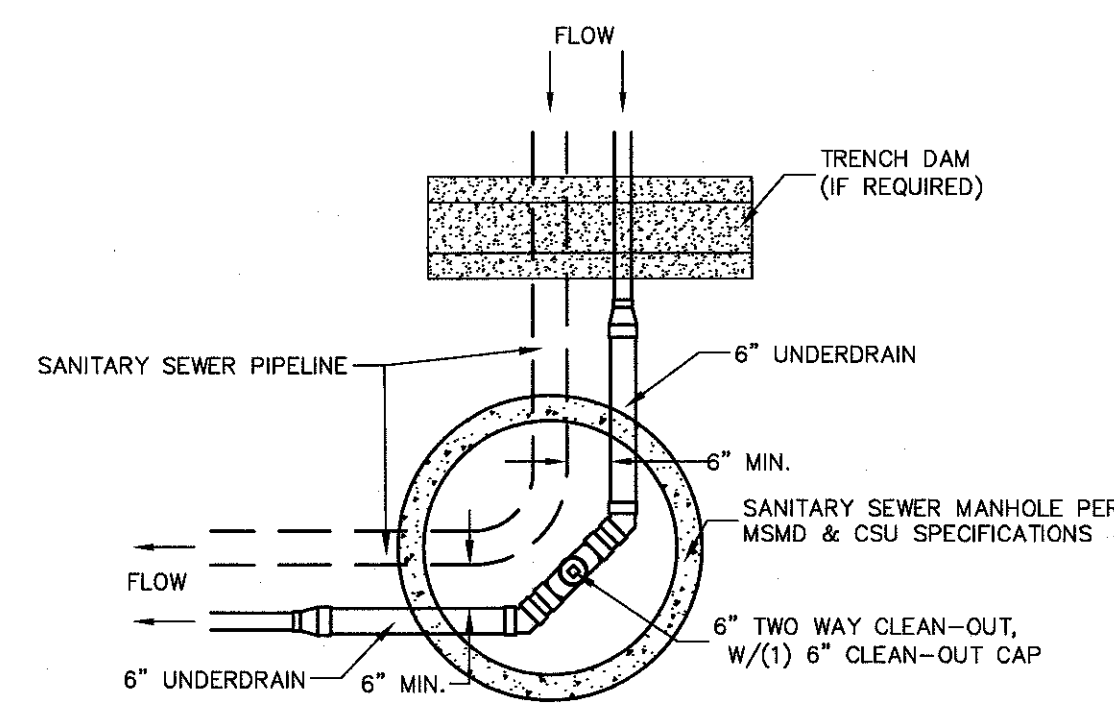


UNPLATTED



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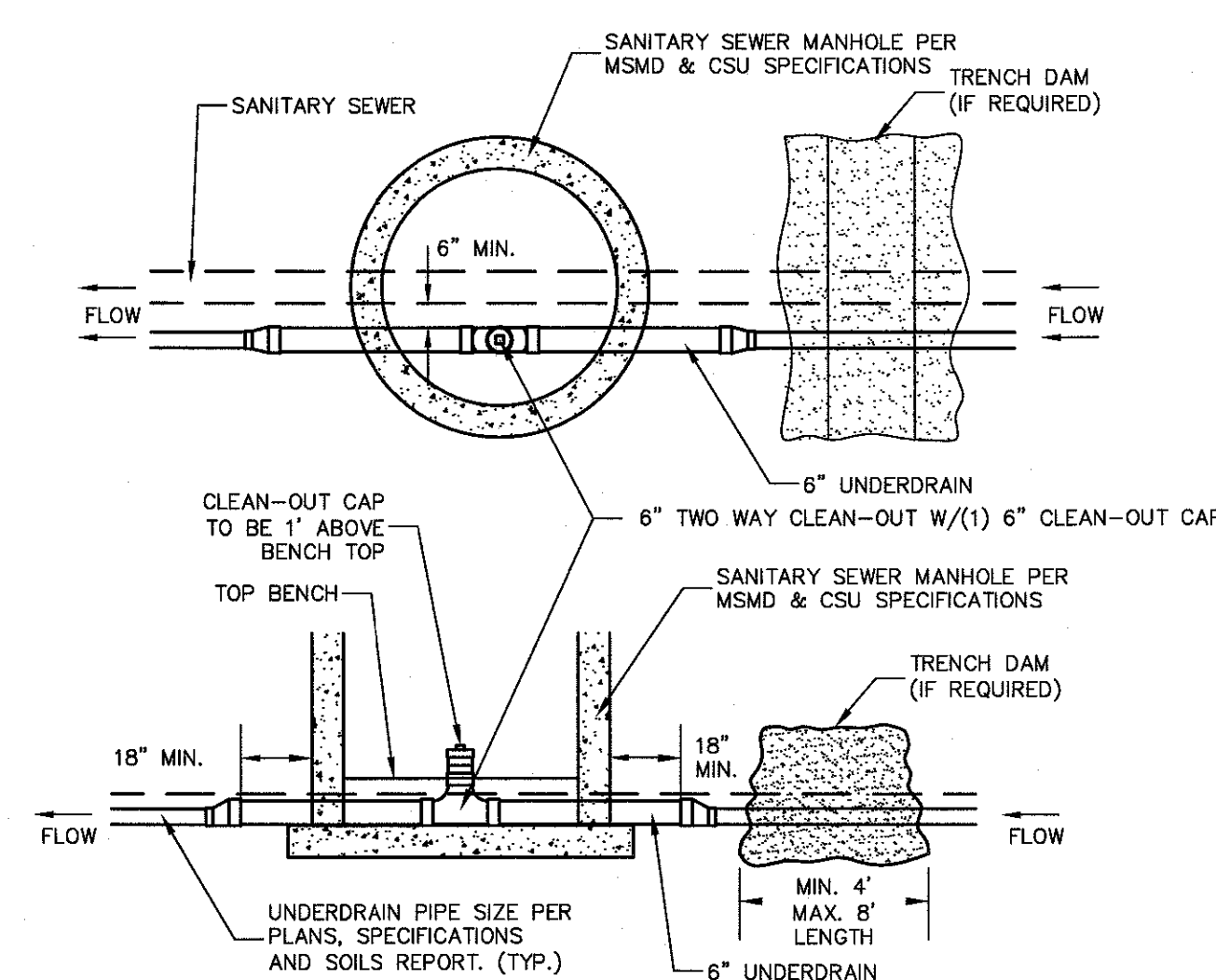
LEGEND	
---	EX. 4" UNDERDRAIN
---	EX. 6" UNDERDRAIN
---	EX. 8" UNDERDRAIN
---	4" UNDERDRAIN
---	6" UNDERDRAIN



SSMH #2

NOTES:

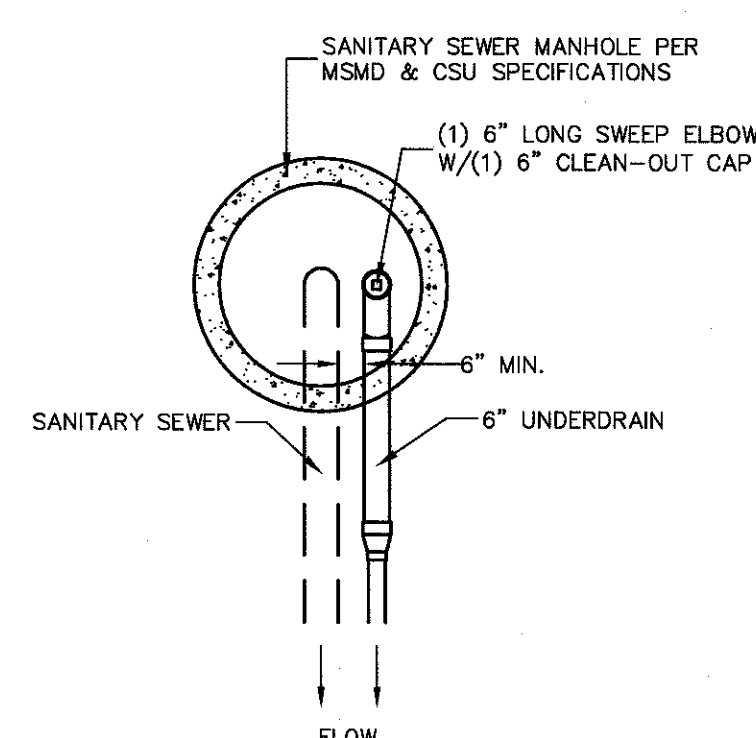
1. THE UNDERDRAIN SYSTEM SHALL BE PASSIVE, WATER TIGHT, NON- PERFORATED PIPE, WITH THE MAIN LINE SIZE DESIGNED BY THE ENGINEER. ALL UNDERDRAIN PIPES AND FITTINGS SHALL BE SDR 35 PVC, OR MSMD APPROVED EQUAL, INSTALLED PER THE SAME INSTALLATION STANDARDS AS OUTLINED BY CSUS FOR SANITARY SEWER SYSTEMS.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



SSMH #1, #3, #4

CLEAN-OUT DETAILS

SCALE : N.T.S.



SSMH #5

CONNECT TO EX. 4" UNDERDRAIN

ESTATES FILING 3


ESTATES FILING 2

MSMD TRACT

UNPLATTED

ESTATES FILING 9

Revisions		No.		Date		Appr.	
1		2		3		4	
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 1 STREET AND UTILITY PLANS OVERALL UNDERDRAIN							
Scale	AS SHOWN	Drawn by	LOA	Checked by	TAK	Date	FEB 2020
16 of 26							
31429 PROFESSIONAL ENGINEER							



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

NOTE:

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

1)MERIDIAN SERVICE METRO DISTRICT WATER PLANT SITE PLAN & FLOOR PLAN

2)MERIDIAN RANCH FILING 9

3)THE ESTATES FILING 2 AT MERIDIAN RANCH

4)THE ESTATES FILING 3 AT MERIDIAN RANCH

5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE

NOTE:

8" WM UNLESS OTHERWISE LABELED.

No.	Revisions	Date	Inst.	Appr.	Date
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2					
3					
4					

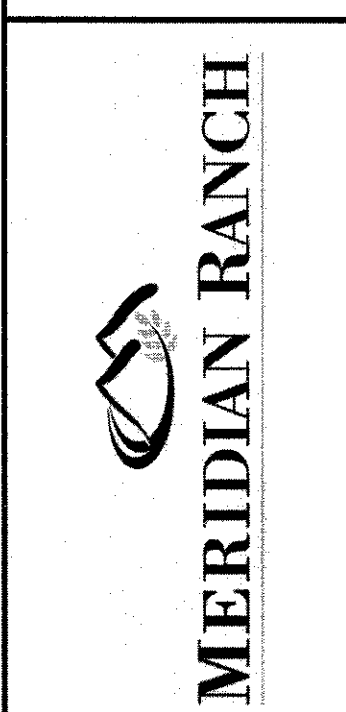
TECH CONTRACTORS

11886 STAPLETON DRIVE

FALCON, CO 80831

TELEPHONE: 719.495.7444

FAX: 719.495.2457



THE ESTATES AT

ROLLING HILLS RANCH FILING 1

STREET AND UTILITY PLANS

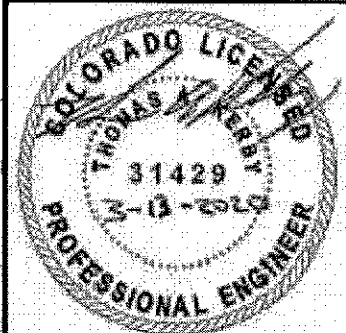
OVERALL WATER

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Checked by	TK
Date	FEB 2020

Scale

AS SHOWN

17 of 26



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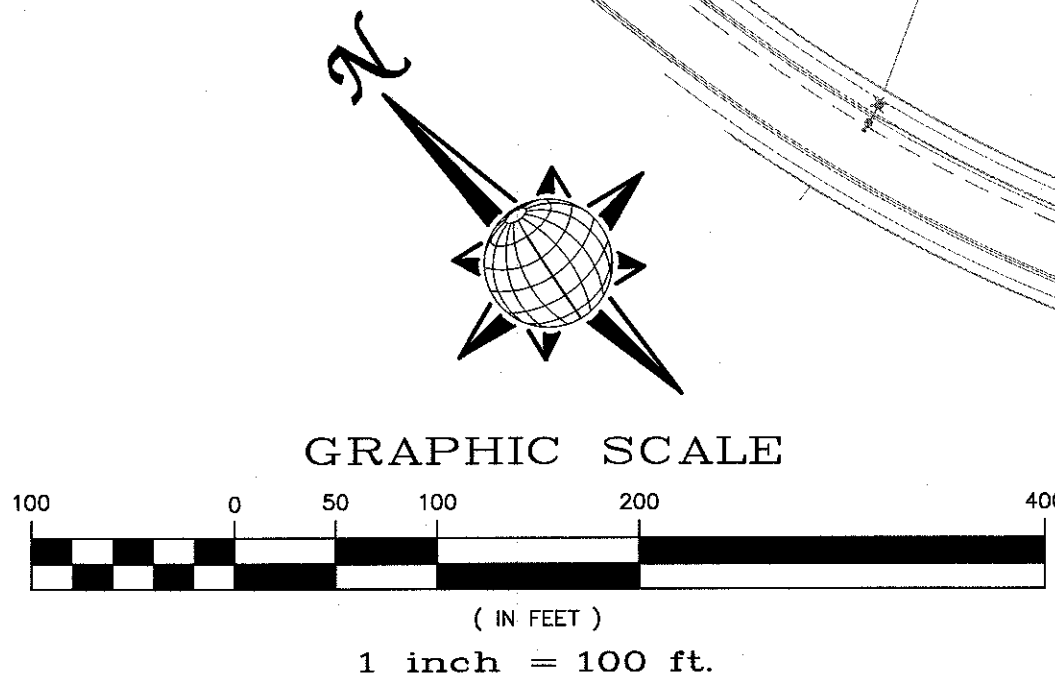
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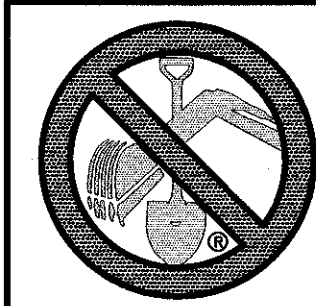
ESTATES FILING 2

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ESTATES FILING 3

ESTATES FILING 9





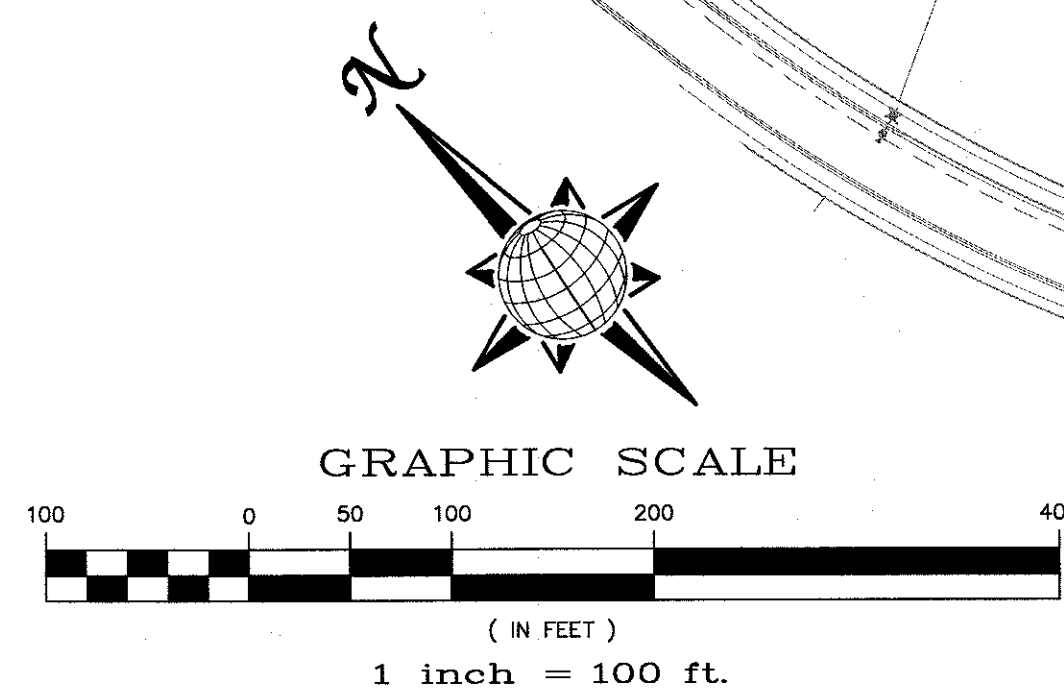
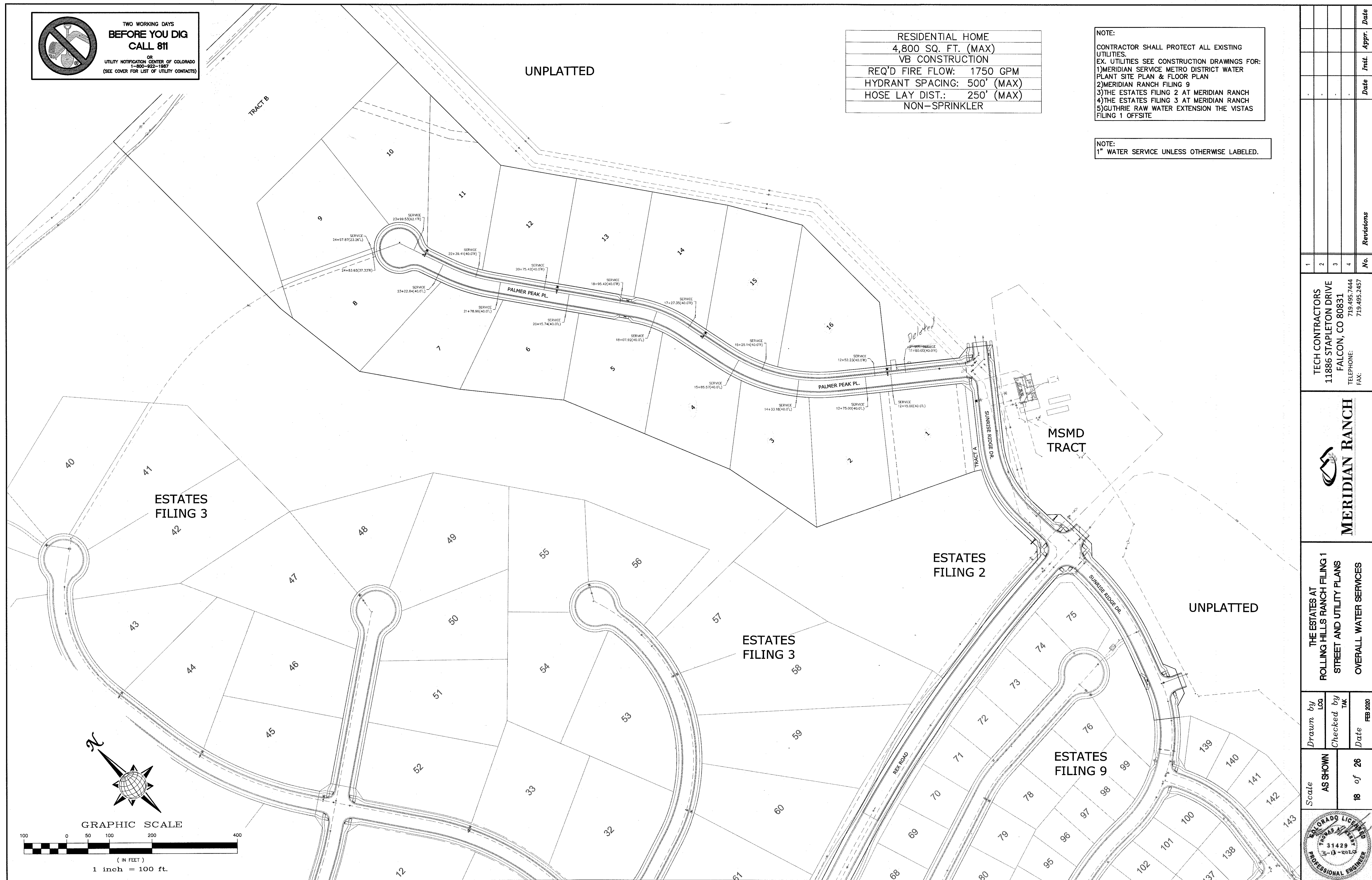
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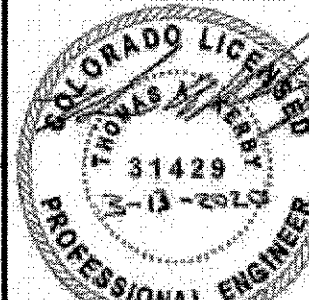
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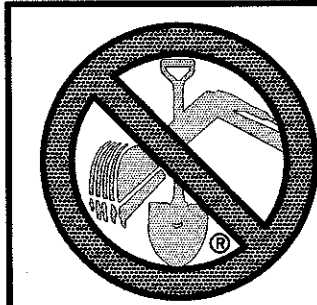
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3)THE ESTATES FILING 2 AT MERIDIAN RANCH
4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE

NOTE:
1" WATER SERVICE UNLESS OTHERWISE LABELED.



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<p> MERIDIAN RANCH</p>																			
<p>THE ESTATES AT ROLLING HILLS RANCH FILING 1 STREET AND UTILITY PLANS OVERALL WATER SERVICES</p>																			
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<p>18 of 26</p>																			
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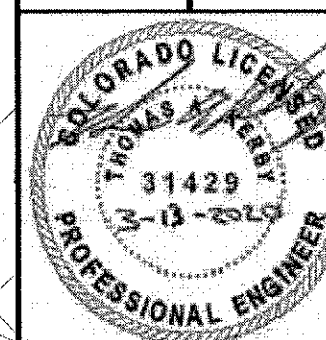
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THE ESTATES AT
ROLLING HILLS RANCH FILING 1
STREET AND UTILITY PLANS
OVERALL STORM DRAIN

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1. 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.
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROAD, 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. 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.
10. 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. 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.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. 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.
13. 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.
14. 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.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. 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.
17. 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.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. 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.
20. 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.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE 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.
22. 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 ON-SITE AND TO PREVENT ANY SUCH MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. 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.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. 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:

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

- ## EROSION AND SEDIMENT CONTROLS

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, FILTERX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTERX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERFLOW STRUCTURE. THE OUTLET STRUCTURE WILL ALSO BE PROTECTED WITH RIPRAP ON THE DOWNSTREAM SIDE.

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

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

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

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

FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

ONCE THE MAJOR ROADS ARE COMPLETED AND THE SUBSIDING DISTURBED AREAS ARE 70% ESTABLISHED WITH VEGETATION, THE SLOPES AROUND 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 FILTEREX CAN BE REMOVED. AFTER ALL GROUND DISTURBING CONSTRUCTION HAS BEEN COMPLETED AND ALL SLOPES ARE 70% ESTABLISHED WITH VEGETATION AND THE CHECK DAMS HAVE BEEN REMOVED, THE REMAINING DAMAGED AREAS WILL RECEIVE ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, REMAINING CHECK DAMS WILL BE ACCEPTED BY THE RRRA. ONLY ONE OF THE CHECK DAMS 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 PRUDENT 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 THE CHANNELS, SWALES, CHANNELS, AND SIDE SLOPES SHALL BE REPAIRED.
- * IF EROSION OF THE CHECK DAMS HAVE SLIPPED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEEDING 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 OUTFALLS.
- * IF THE DEPTH OF THE SILT IN THE REMOVED SEDIMENTATION TRAP EXCEEDS 1/2 OF THE ORIGINAL DEPTH, THE TRAP SHALL BE CLEARED OUT AND RESTORED TO ITS ORIGINAL DEPTH. THE OVERFLOW SPRAWAY SHALL BE CLEANED OR REPAIRED AS NECESSARY.

AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

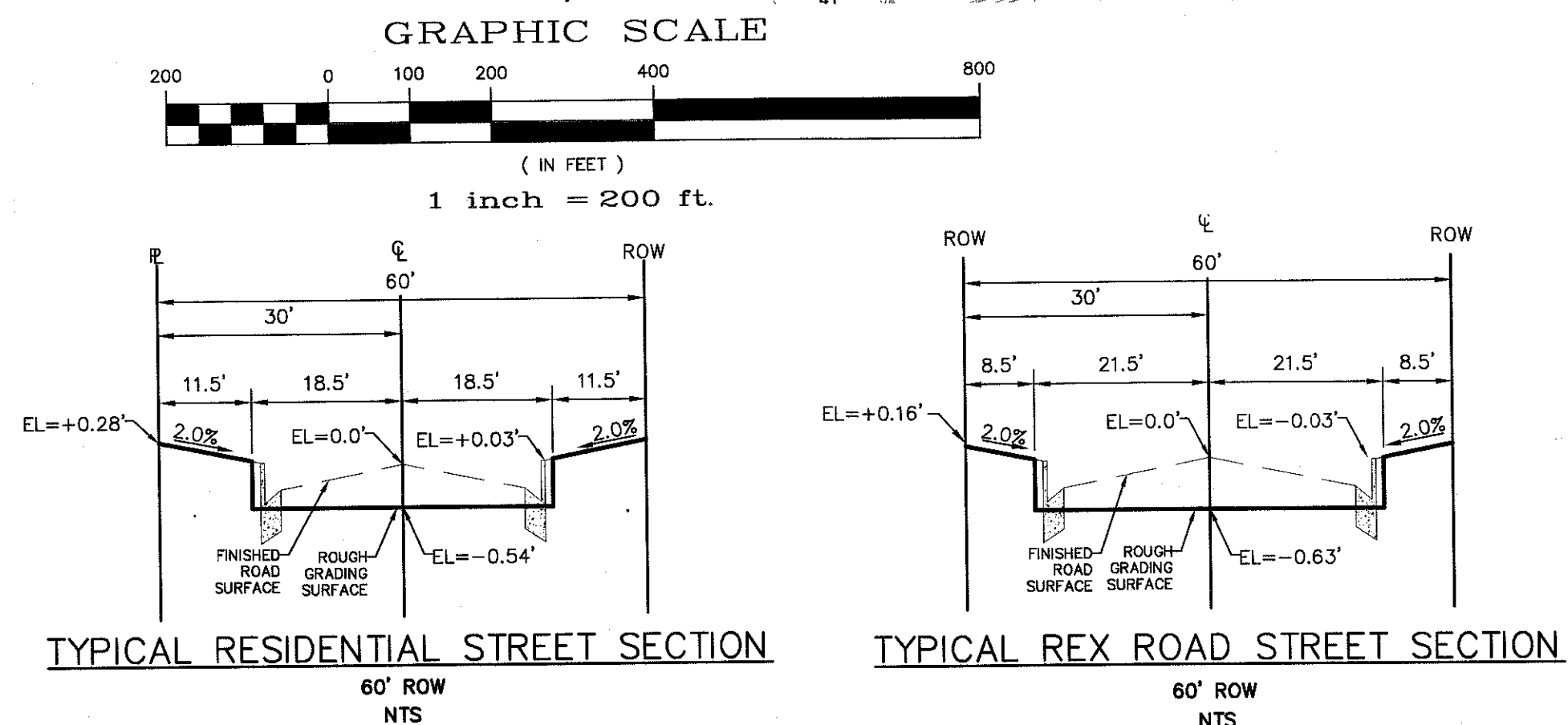
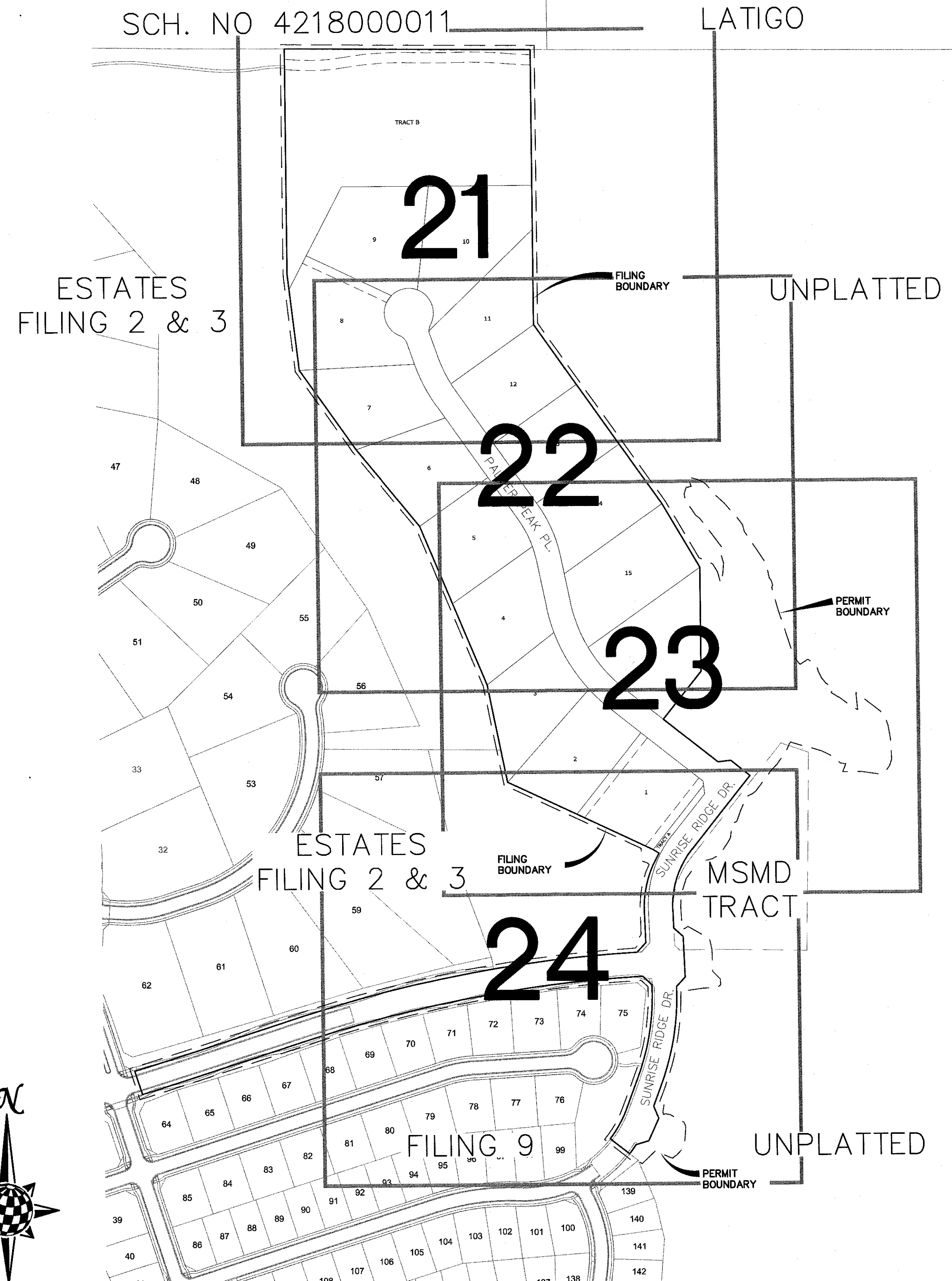
REVEGETATION AND SEEDING
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE COMPLETION OF THE GRADING. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING 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, THE FIRST OPERATION SHALL BE TO APPLY A SECOND OPERATION. UPON COMPLETION OF SEEDING OPERATION THE SITE SHOULD BE COVERED WITH A 2" DEEP FREE MULCH AT A RATE OF 4,000 LBS. PER ACRE. MULCH SHALL BE INSTALLED PER DCM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

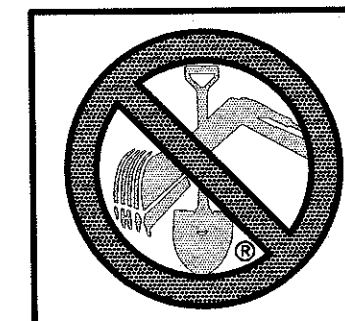
GRASS	VARIETY	AMOUNT IN PLS. LBS. PER ACRE
SIDEOATS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSDE	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

NOTE:
1) 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.

2) MATERIAL STORAGE, TOPSOIL STOCKPILES, STAGING, CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.





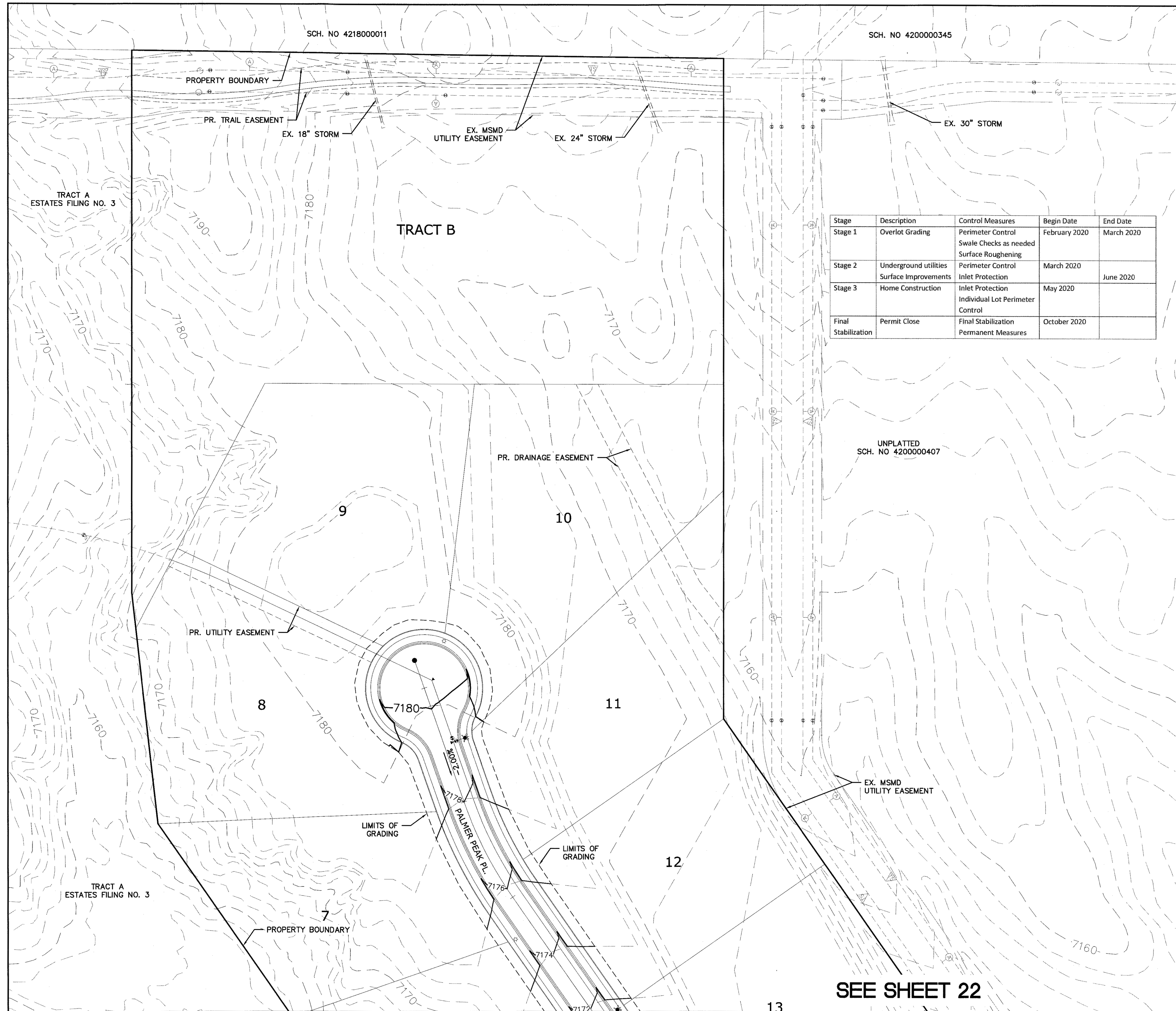
NET YARDS	BALANCE	
TOTAL STRIPPINGS	12.18 AC.	6,550 CY
	<u>CUT</u>	<u>FILL</u>
NET YARDS	10,873 CY	11,400 CY
20% COMPACTION FACTOR		



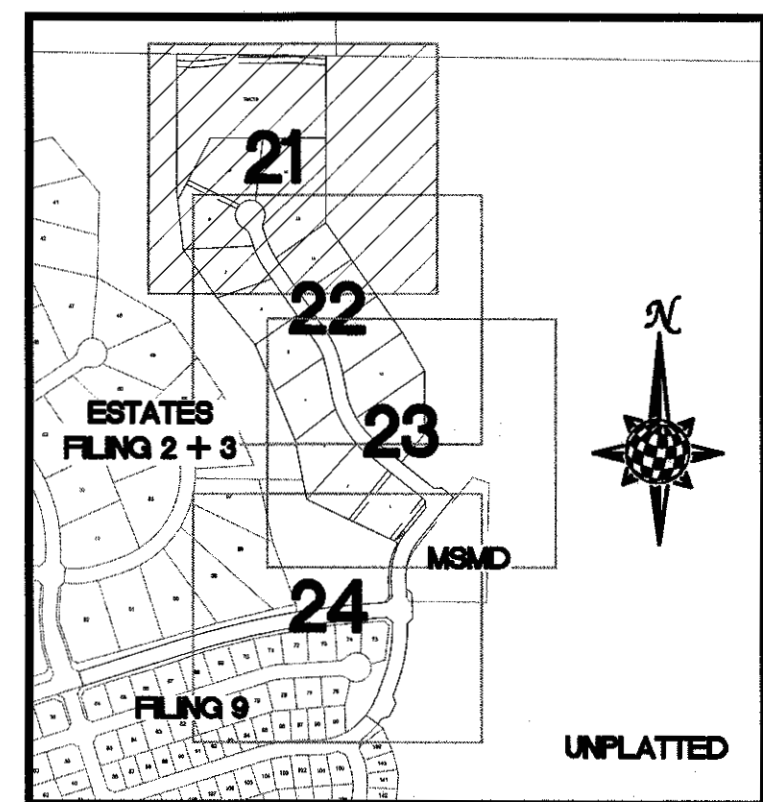
**TWO WORKING DAYS
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OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

	Scale	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 1 GRADING+EROSION CONTROL PLAN INDEX SHEET	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1							
	AS SHOWN	Checked by TAK				2							
		Date				3							
		20 of 26				4							
						No.	Revisions	Date	Init.	Appr.	Date		



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



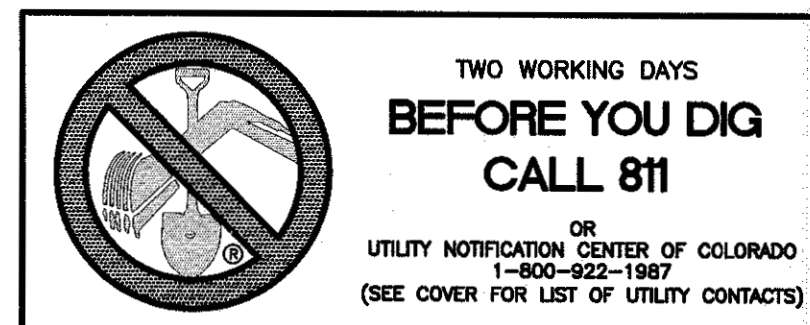
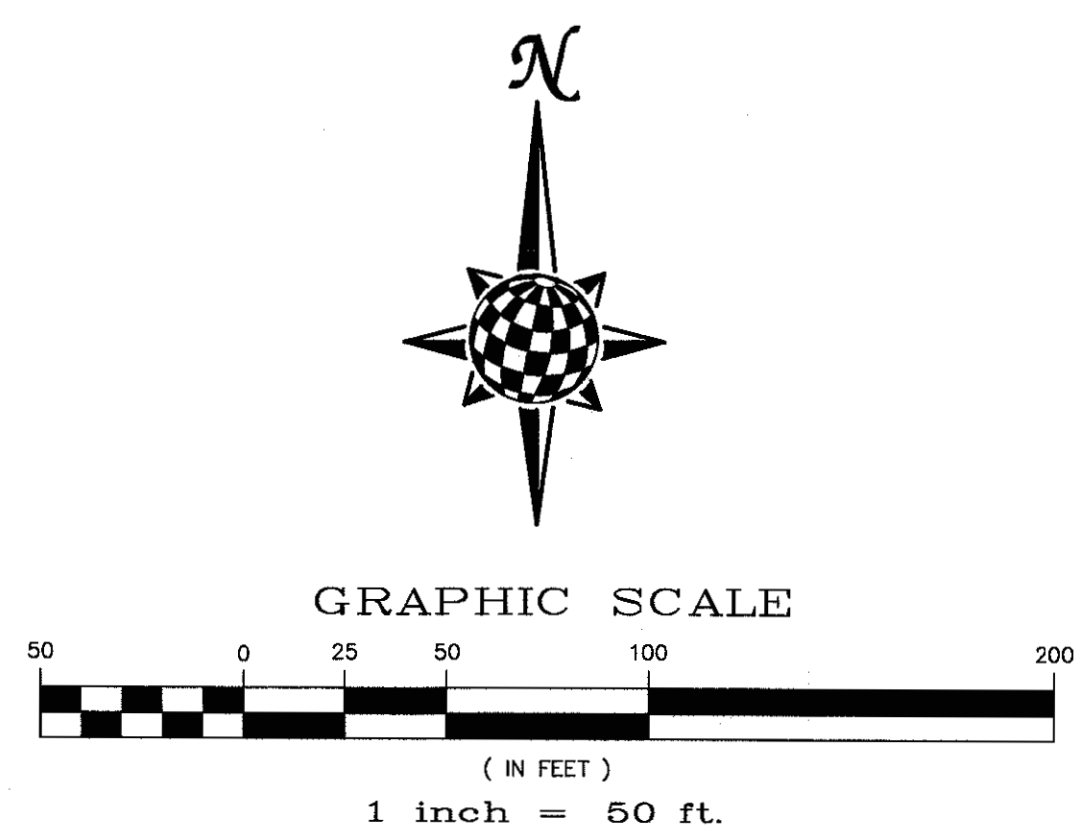
INDEX MAP N.T.S.

LEGEND

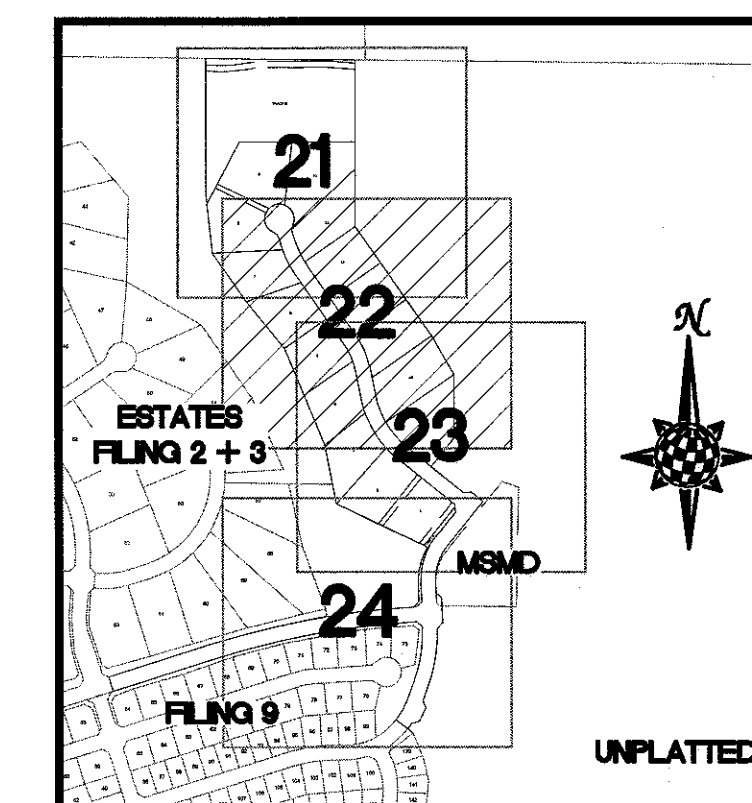
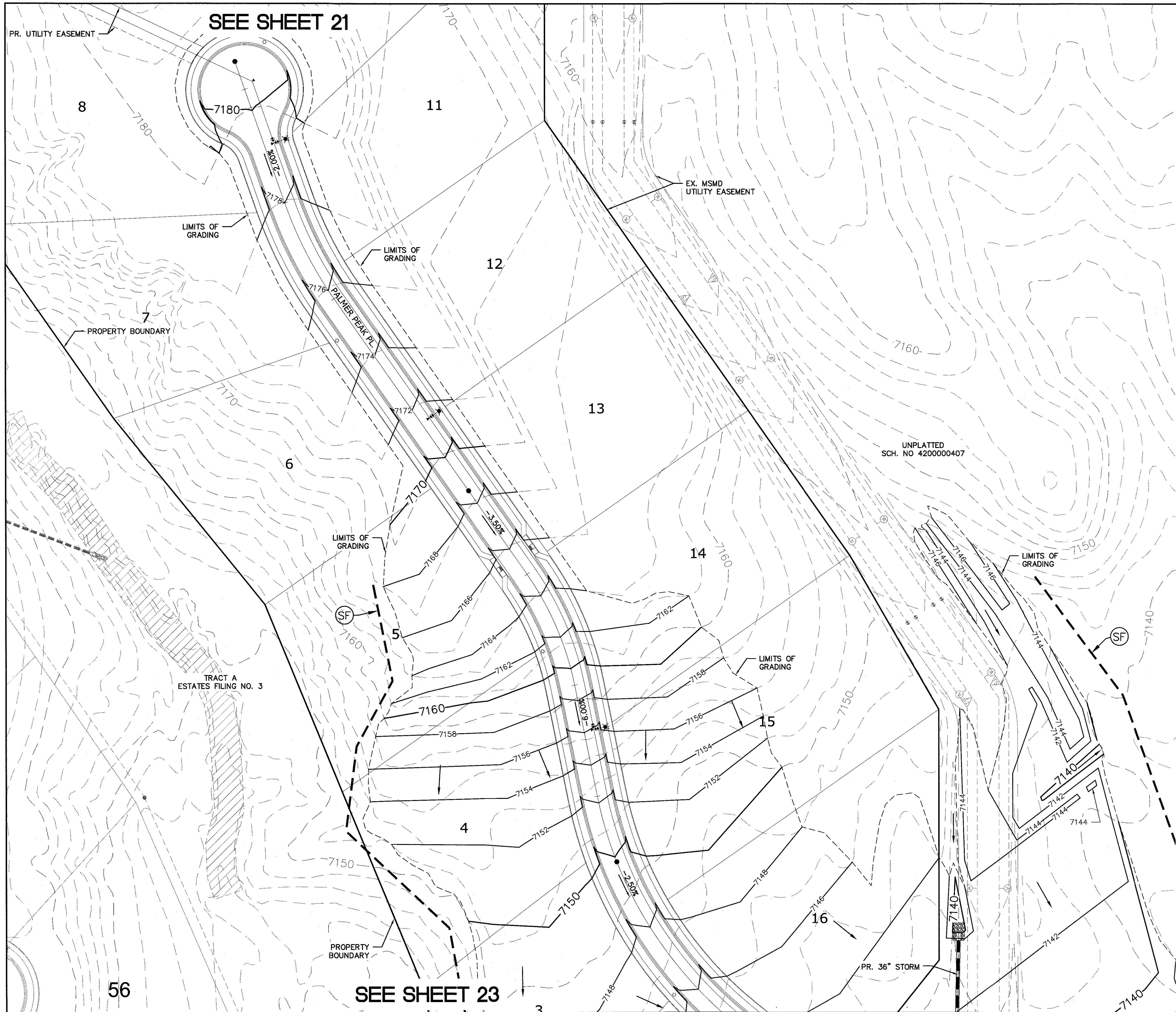
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 26
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	(IP)	INLET PROTECTION PER DETAIL SHEET 26
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE

NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET
ARE TO FINISHED SURFACE. ALL STREET
SECTIONS ARE TO BE GRADED TO ROUGH
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TYPICAL STREET SECTION SHOWN ON SHEET 20.

CONTRACTOR SHALL PROTECT ALL EXISTING
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)MERIDIAN SERVICE METRO DISTRICT WATER
PLANT SITE PLAN & FLOOR PLAN
2)MERIDIAN RANCH FILING 9
3)THE ESTATES FILING 2 AT MERIDIAN RANCH
4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE



1	2	3	4	No.	Revisions	Date	Inst.	Appr.	Date
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 1 GRADING-EROSION CONTROL PLAN LAYOUT									
Drawn by	Loc	Checked by	TAK	Date	FEB 2020				
Scale	AS SHOWN		21 of 26						
EPC 6/22/2020					PCD PROJECT NO: SF-19-019				



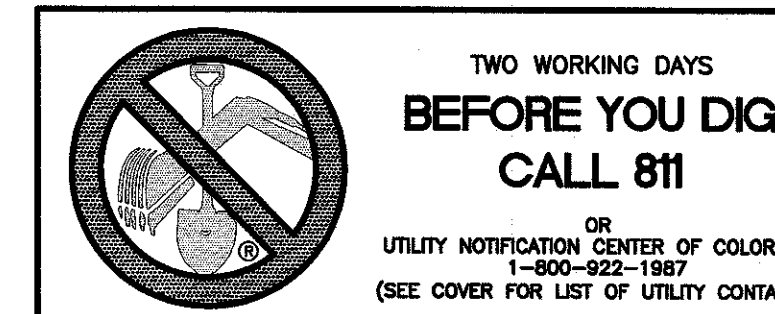
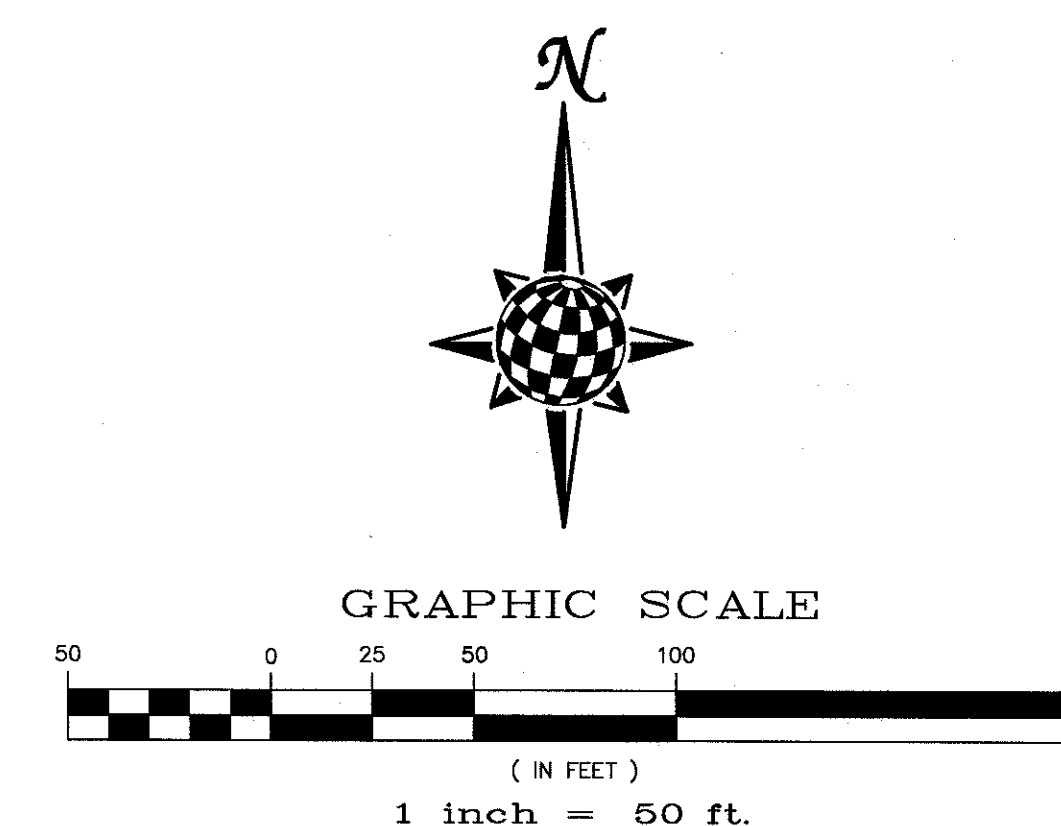
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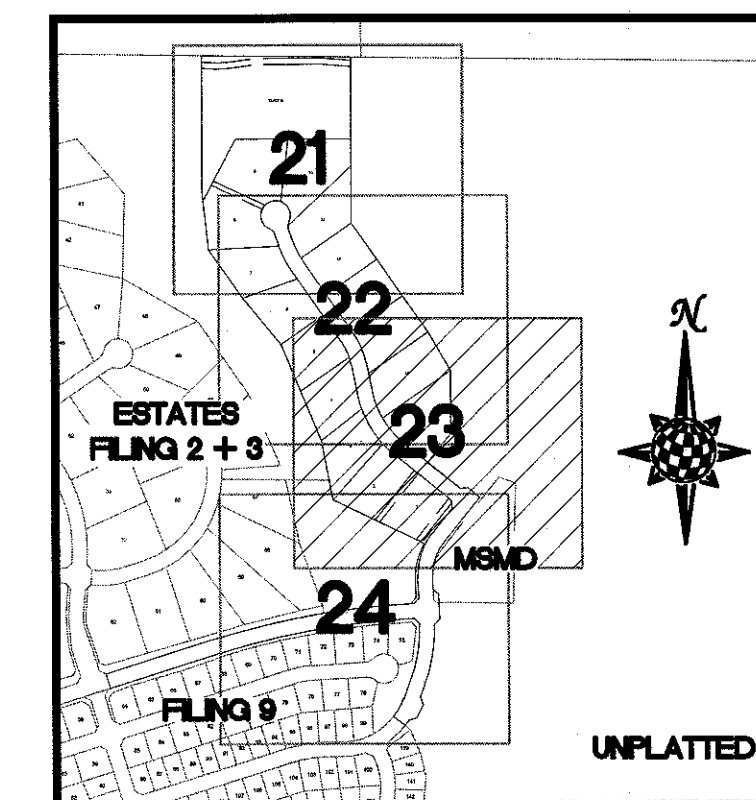
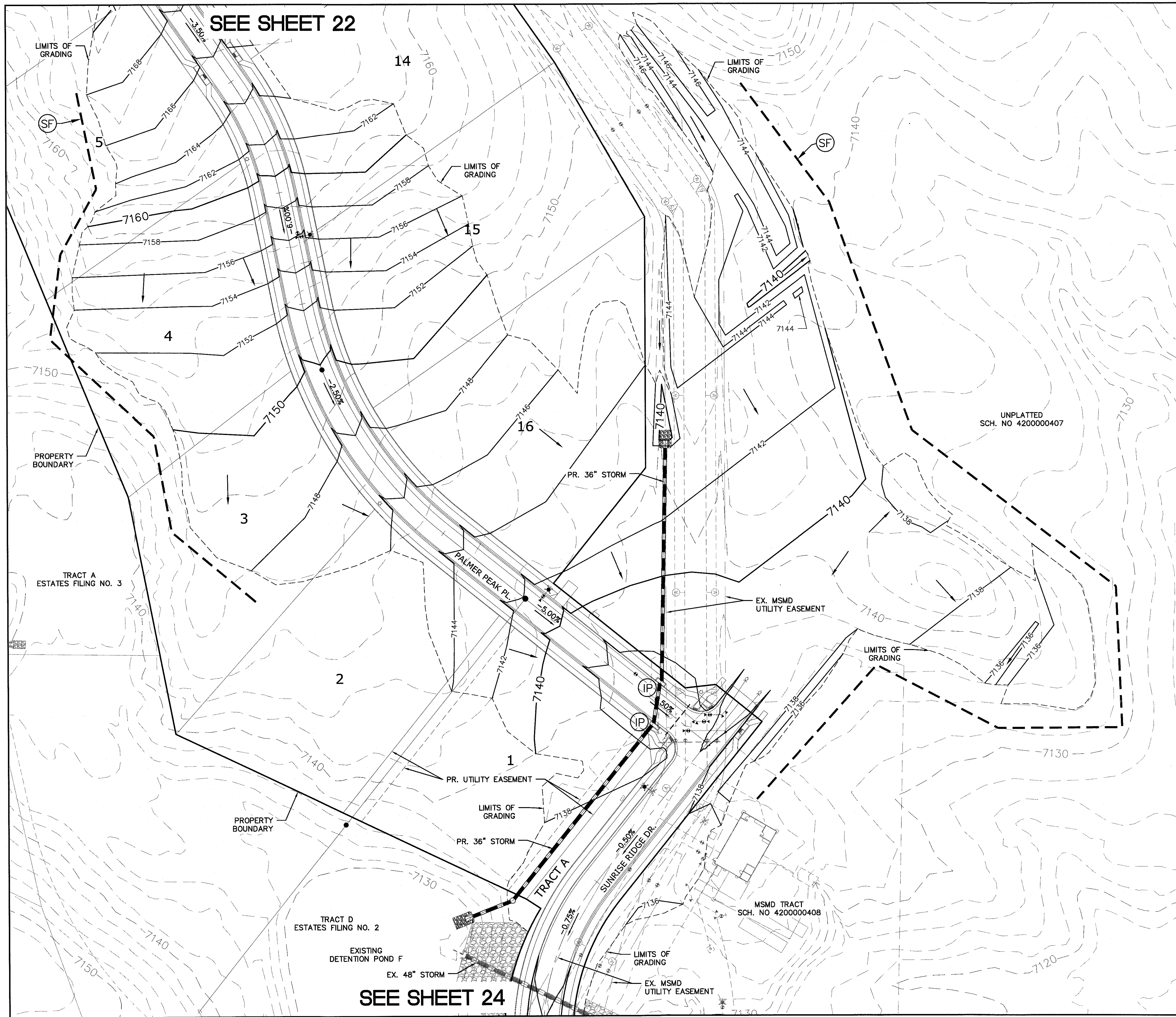
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4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE



	Scale AS SHOWN	Drawn by LOJ	THE ESTATES AT ROLLING HILLS RANCH FILING 1 GRADING+EROSION CONTROL PLAN LAYOUT	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457						
		Checked by TAK									
	Date										
	22 of 26										
						No.	Revisions	Date	Trmt	Appr	Date
						1					
						2					
						3					
						4					



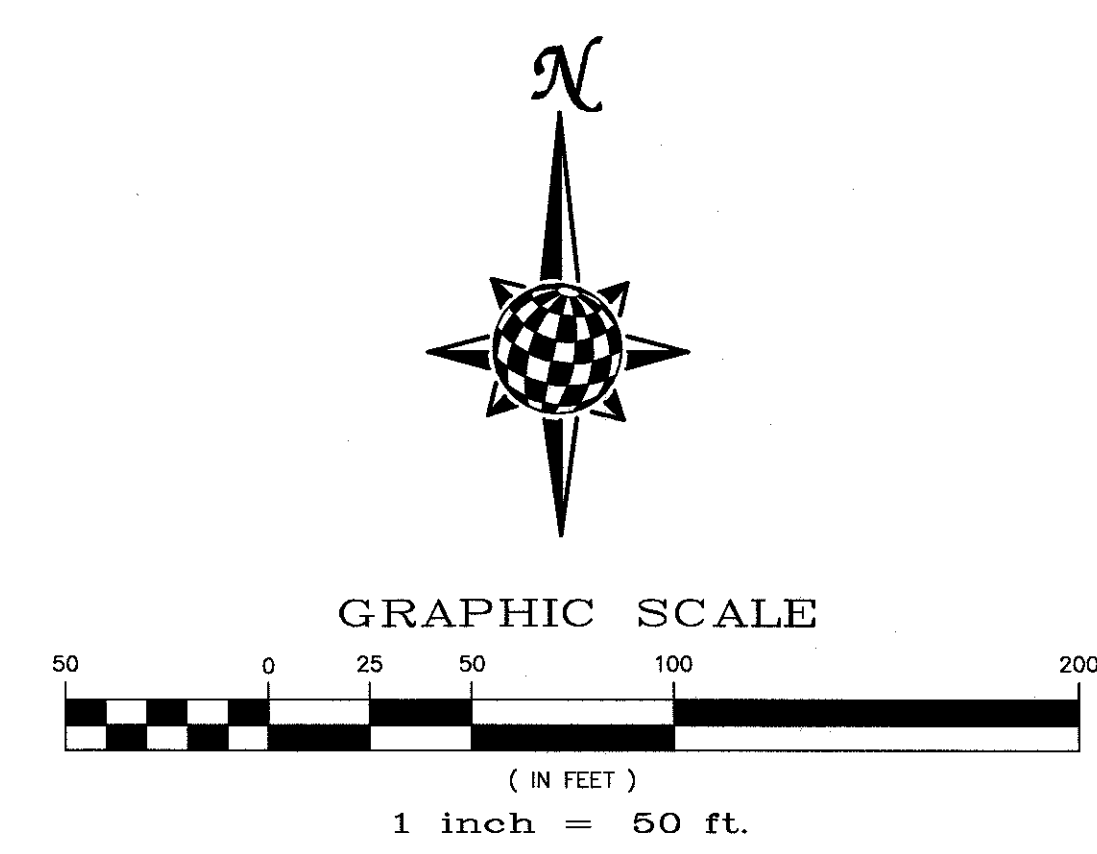
INDEX MAP N.T.S.

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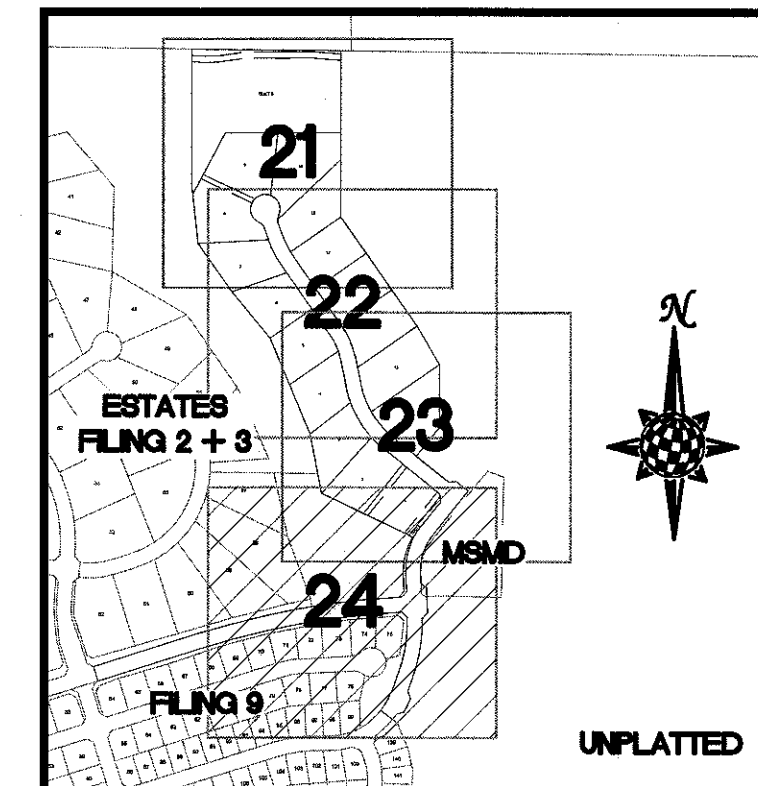
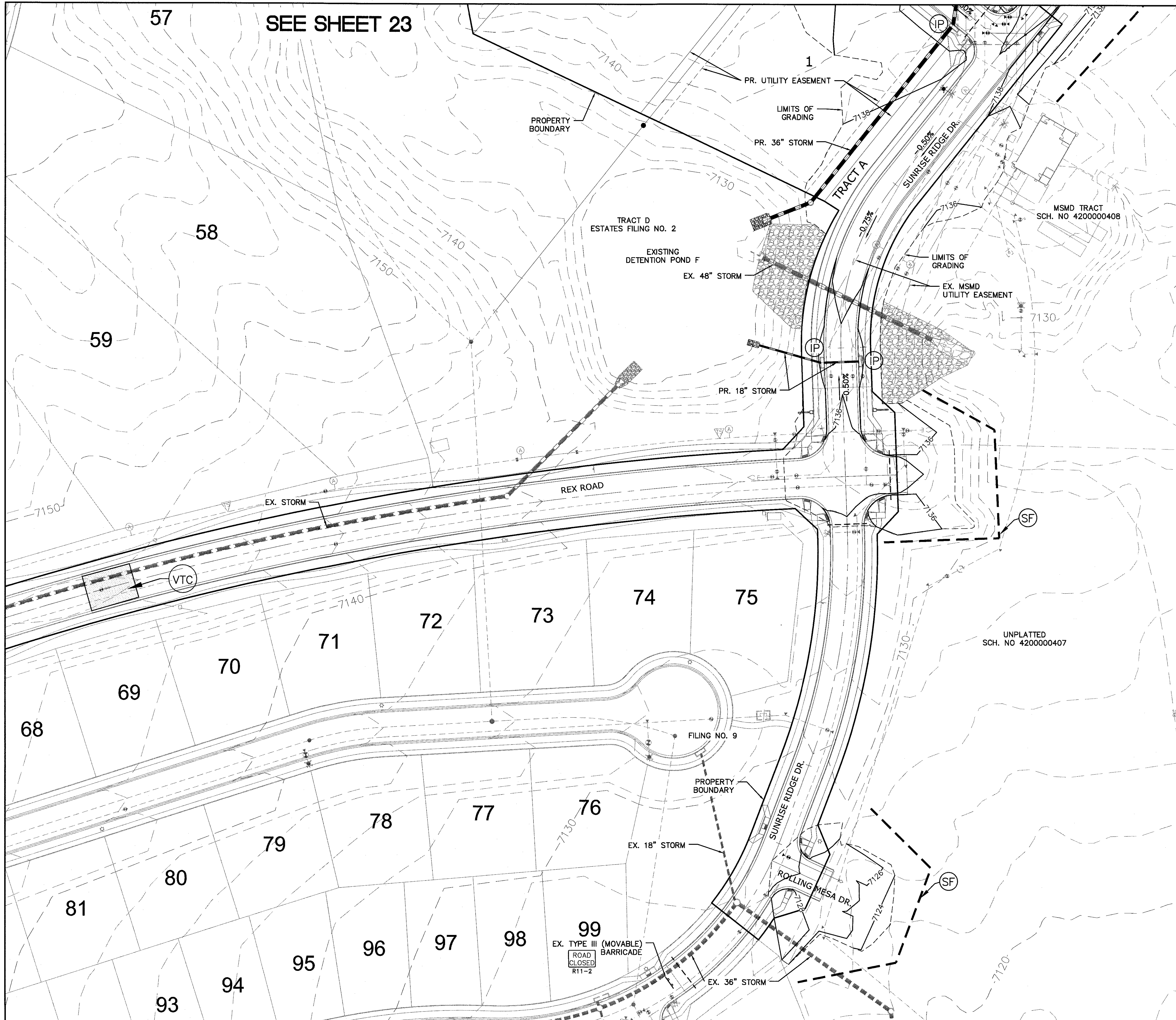
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<div>Scale</div> <div>AS SHOWN</div>	<div>Drawn by</div> <div>LOG</div> <div>Checked by</div> <div>TAK</div> <div>Date</div> <div>FEB 2020</div>	THE ESTATES AT		TECH CONTRACTORS		<div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>No.</div> <div>Revisions</div> <div>Date</div> <div>Init.</div> <div>Appr.</div> <div>Date</div>
		ROLLING HILLS RANCH FILING 1		11886 STAPLETON DRIVE		
		GRADING-EROSION CONTROL PLAN		FALCON, CO 80831		
		LAYOUT		TELEPHONE: 719.495.7444		
				FAX: 719.495.2457		
<div></div>		<div>MERIDIAN RANCH</div>				



INDEX MAP

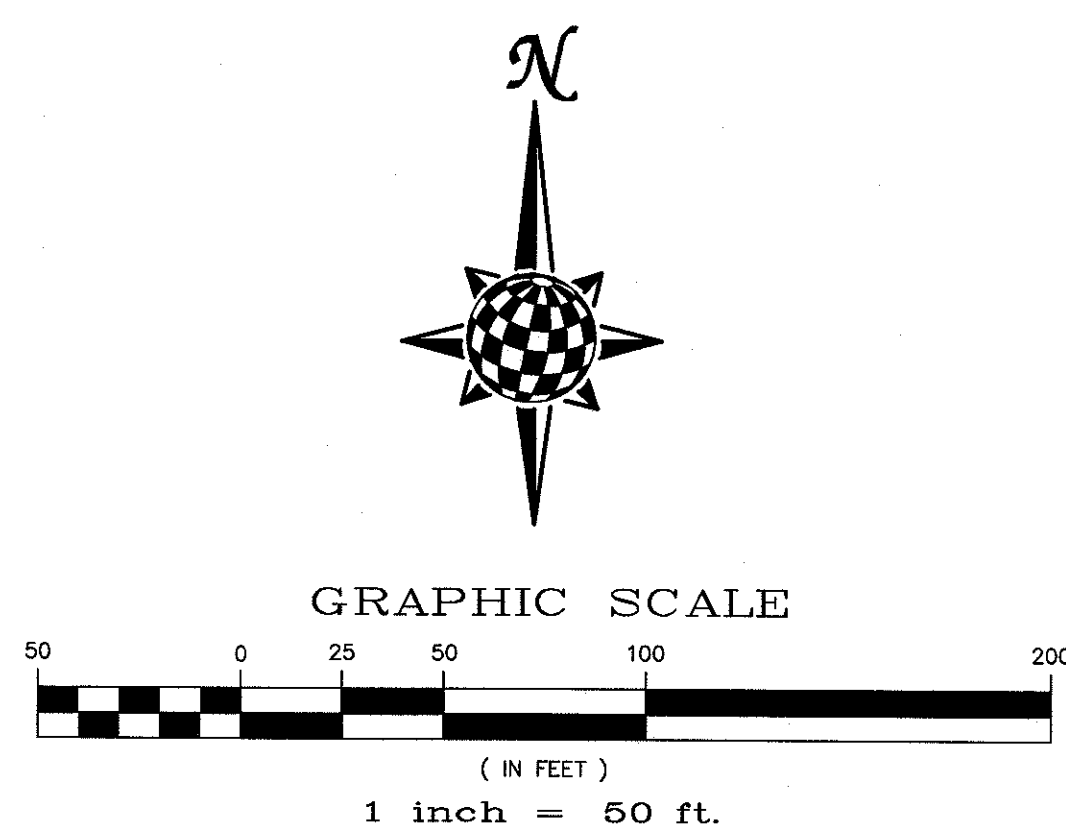
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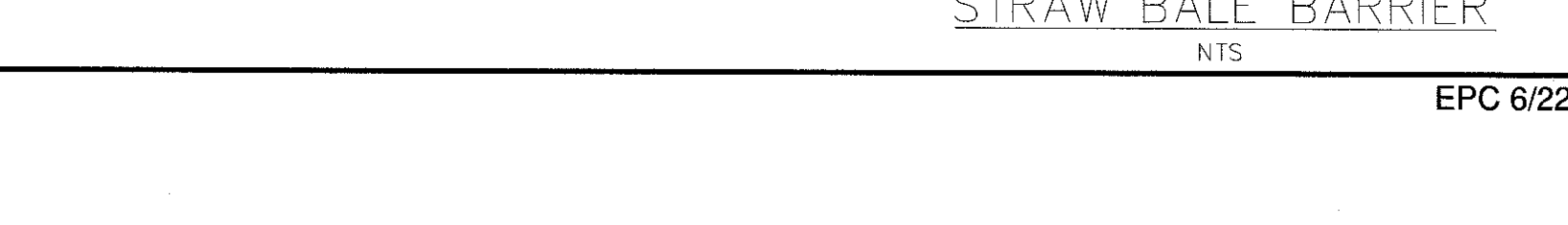
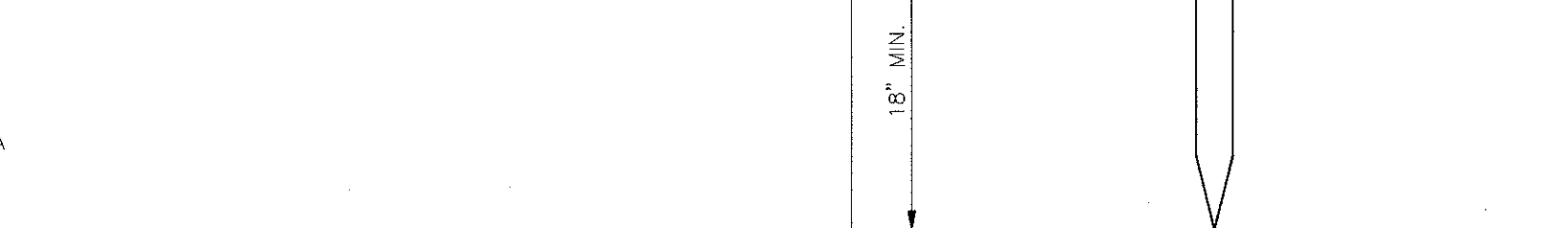
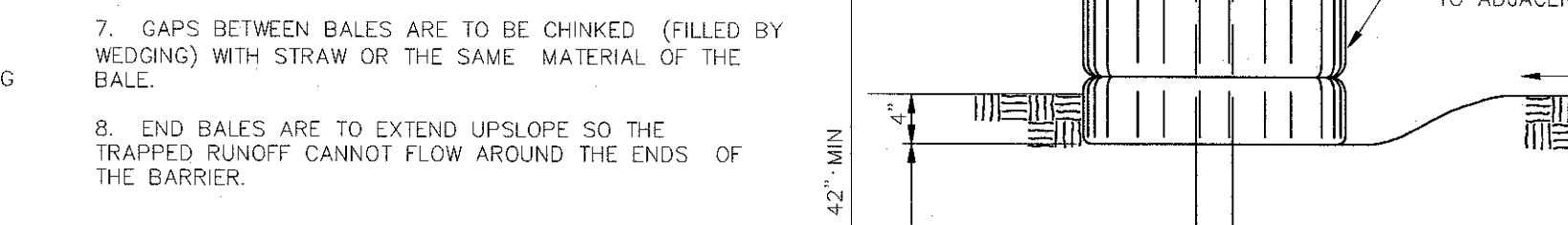
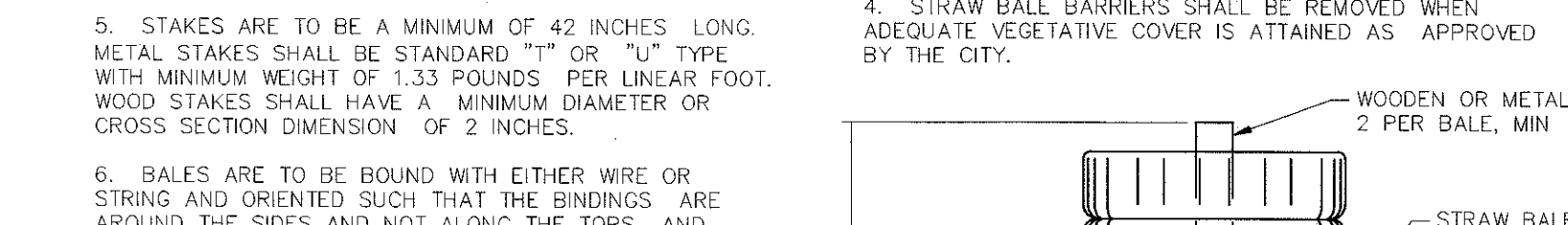
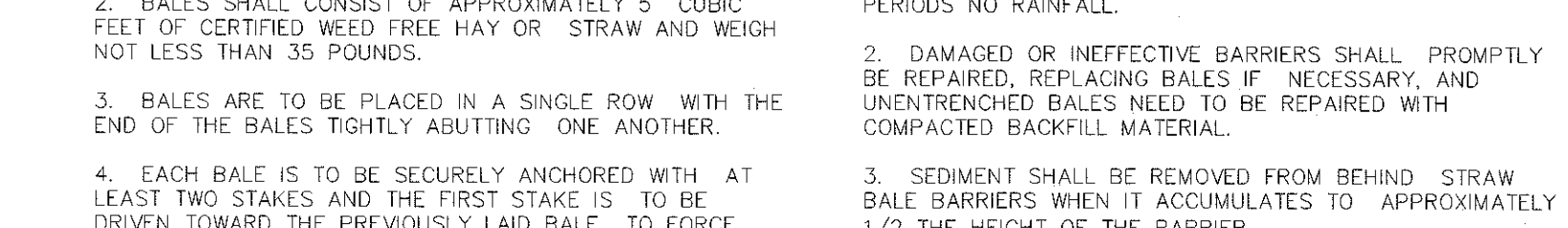
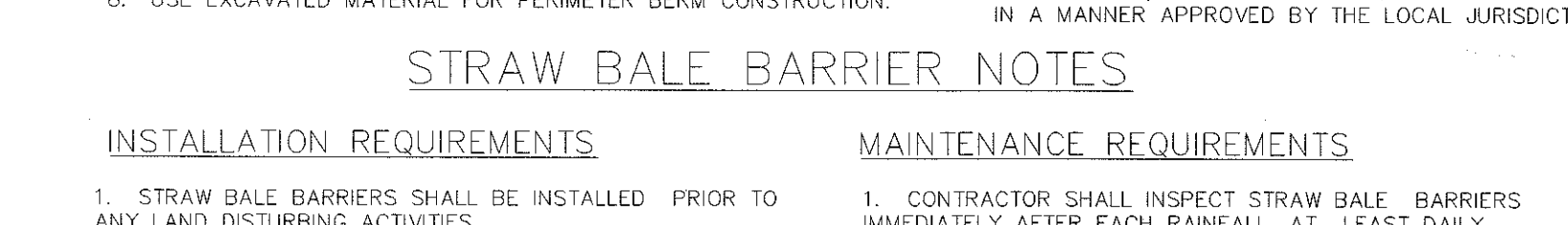
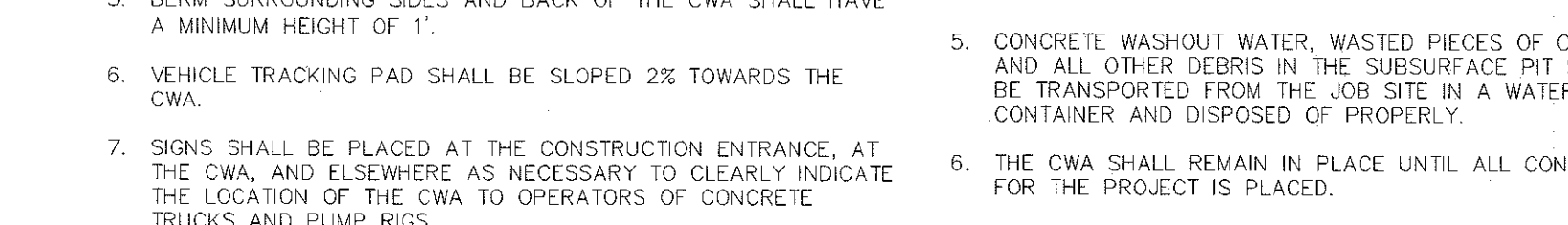
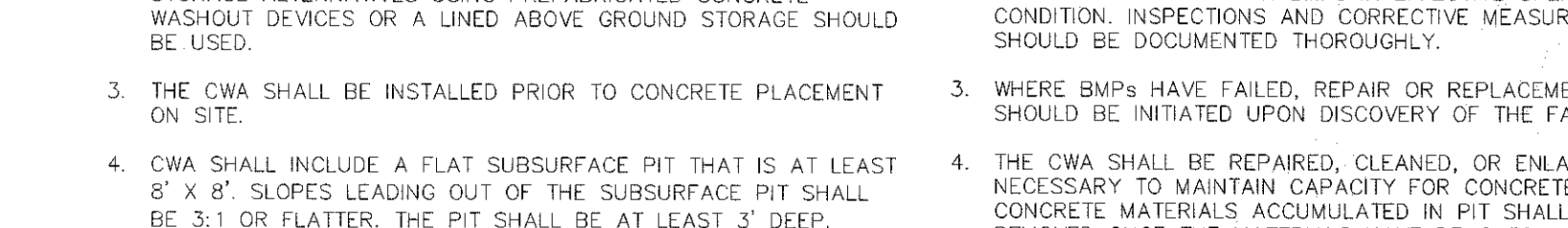
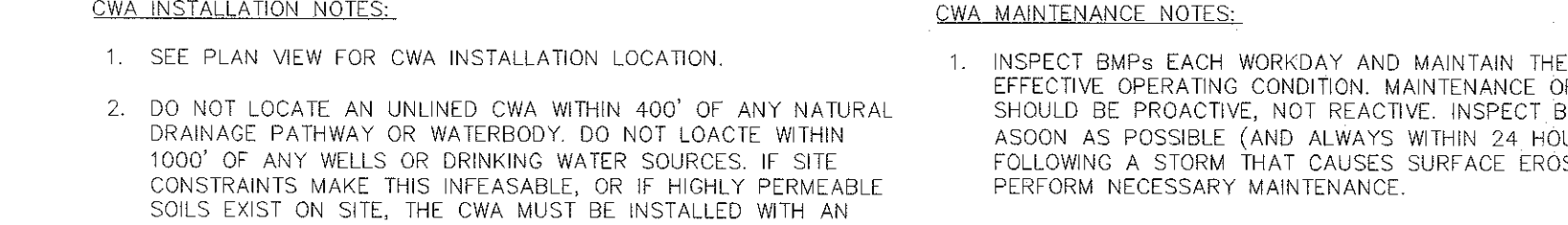
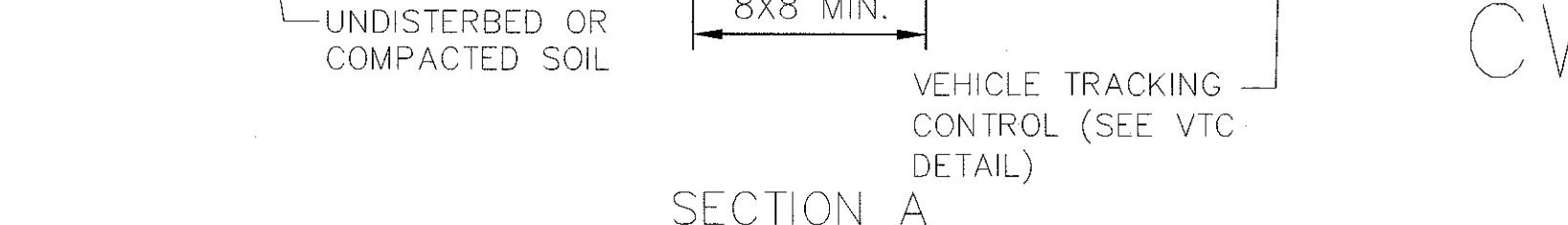
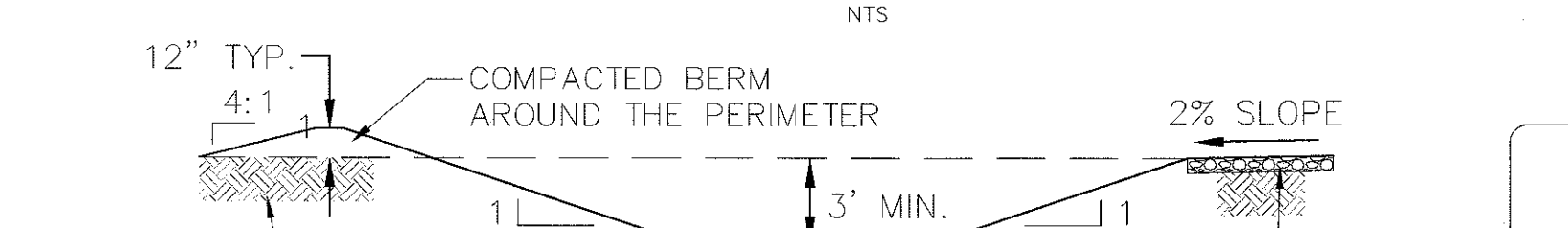
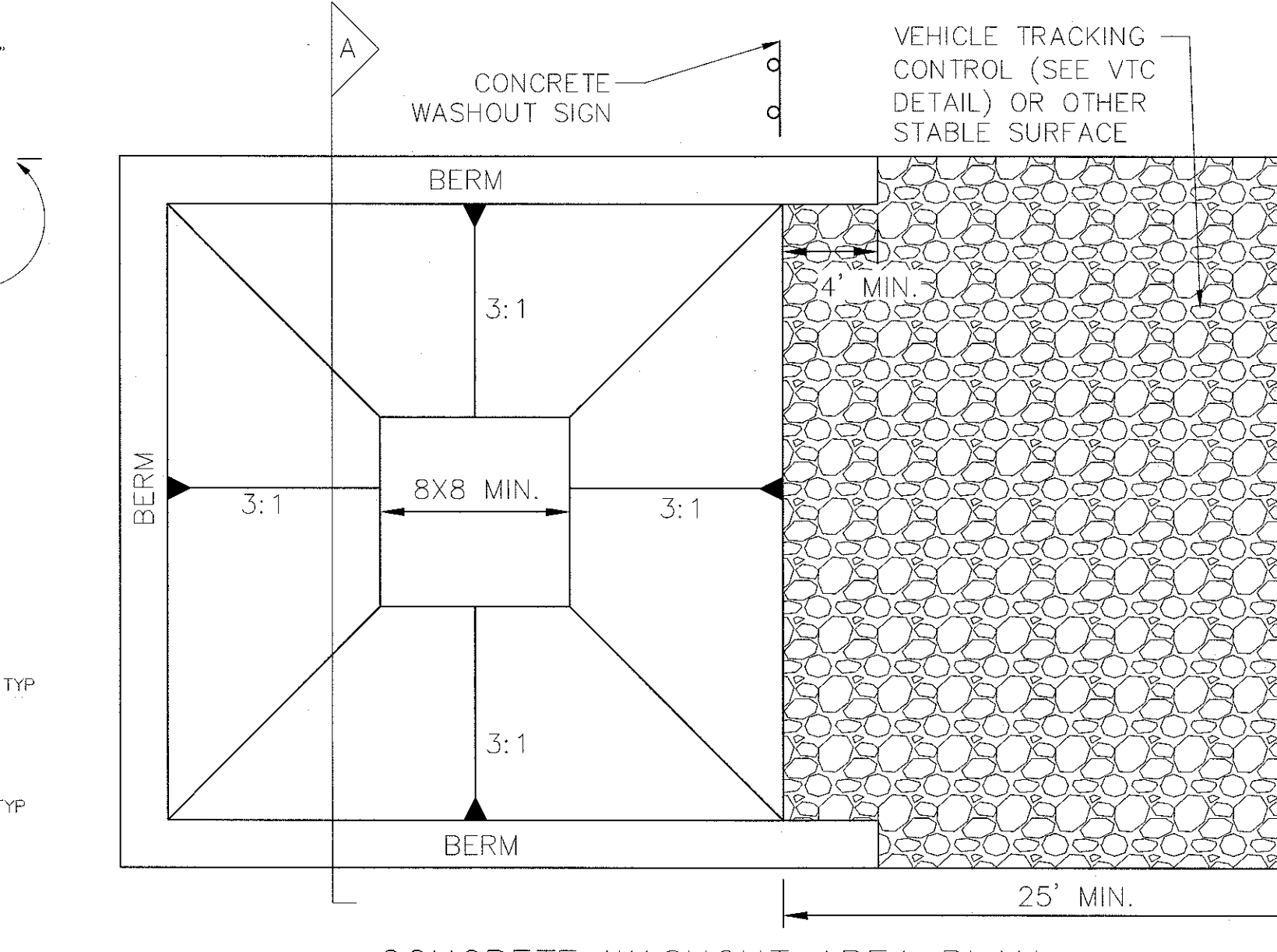
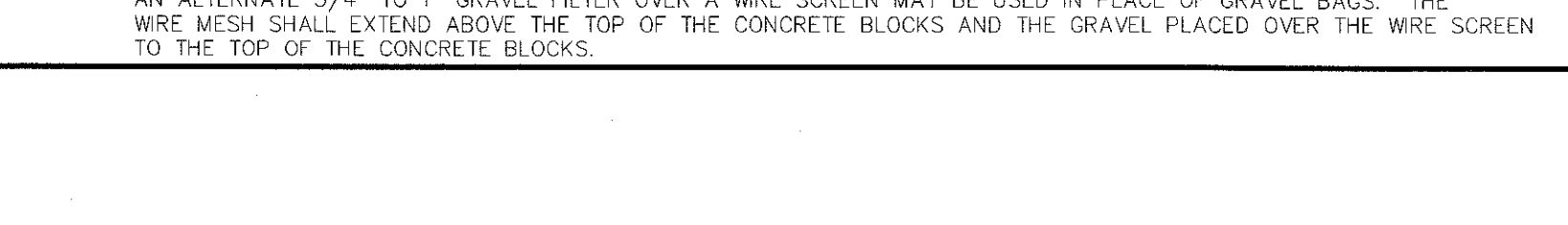
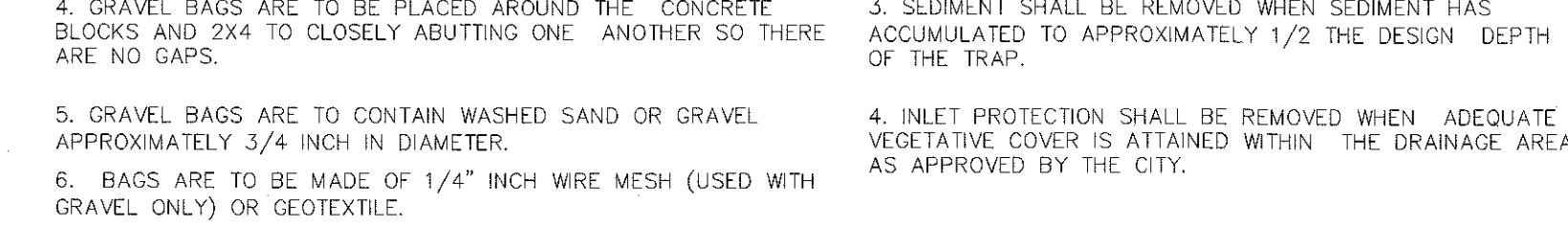
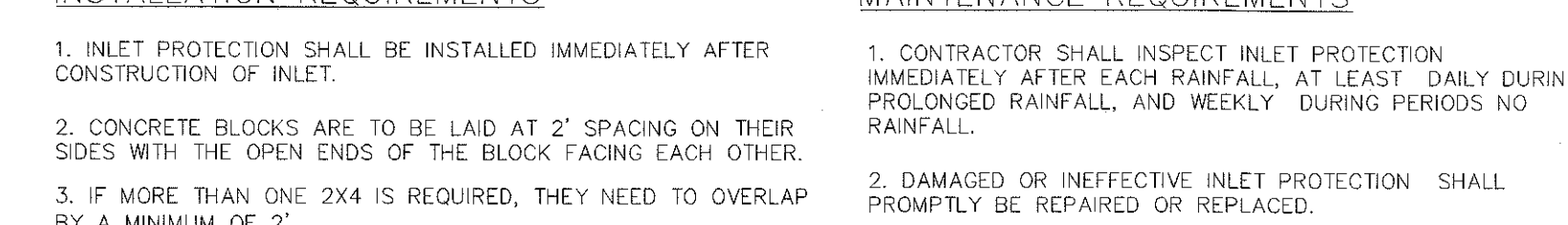
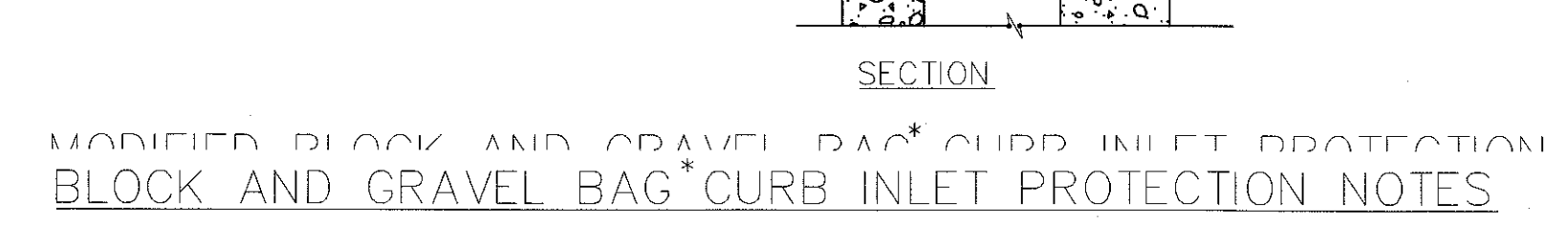
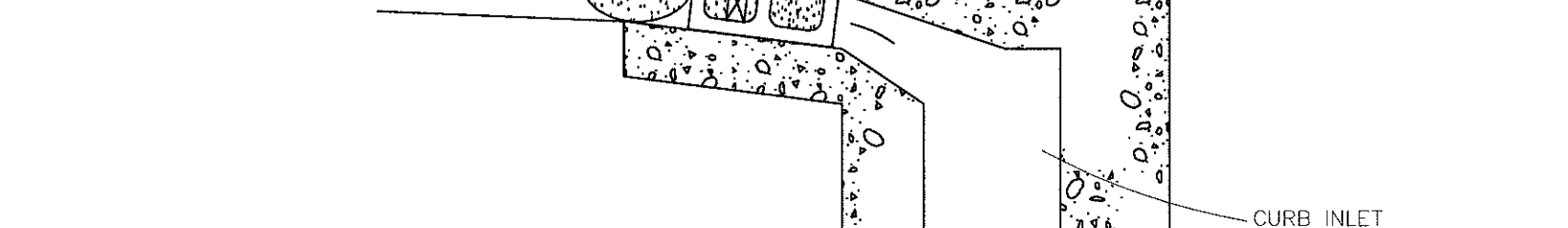
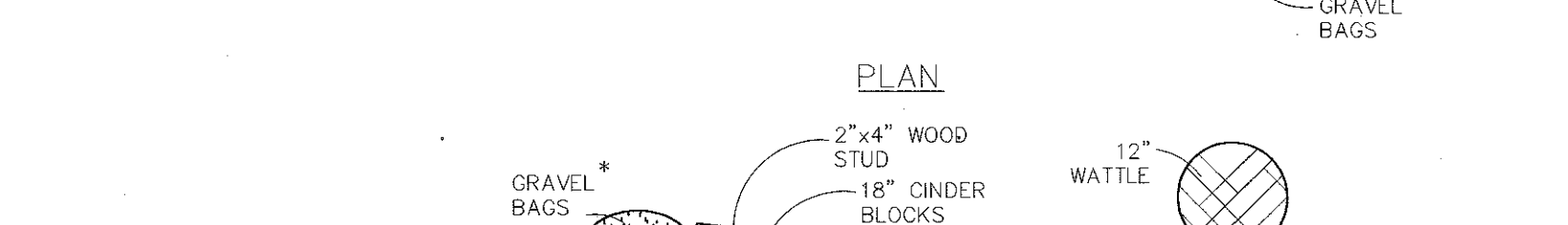
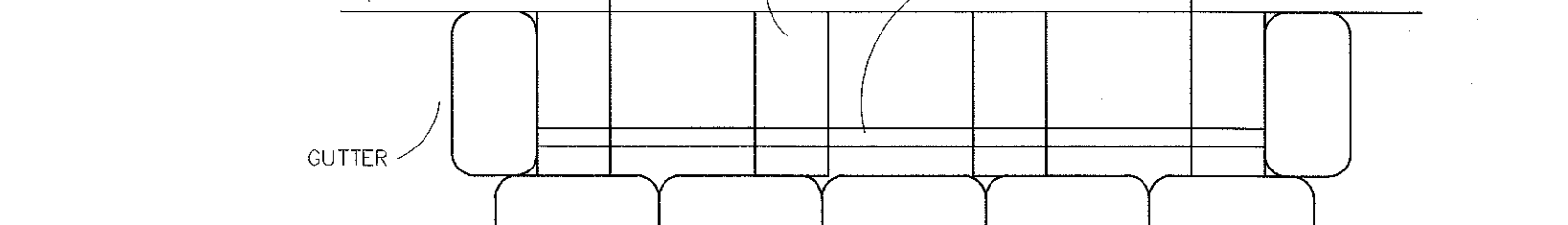
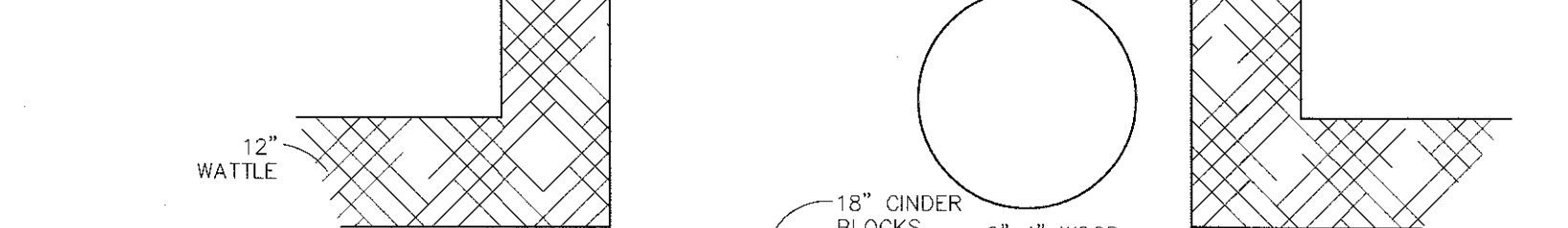
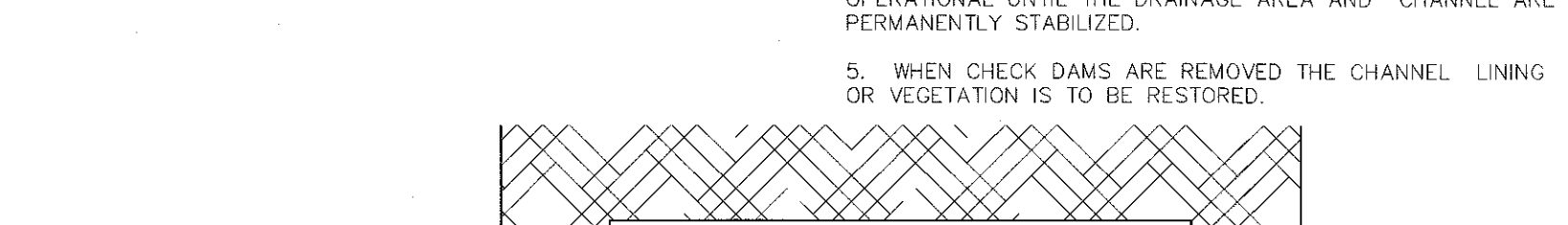
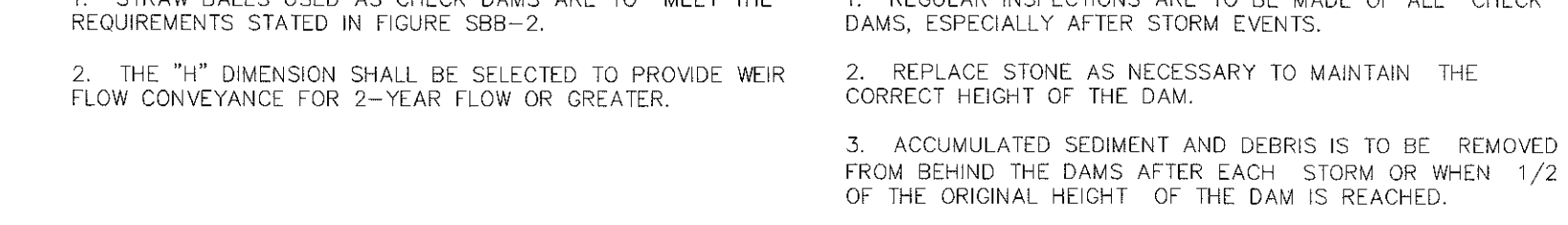
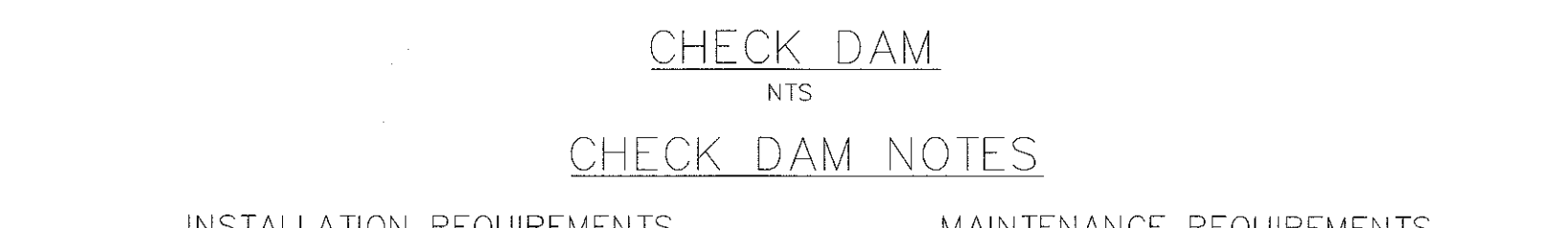
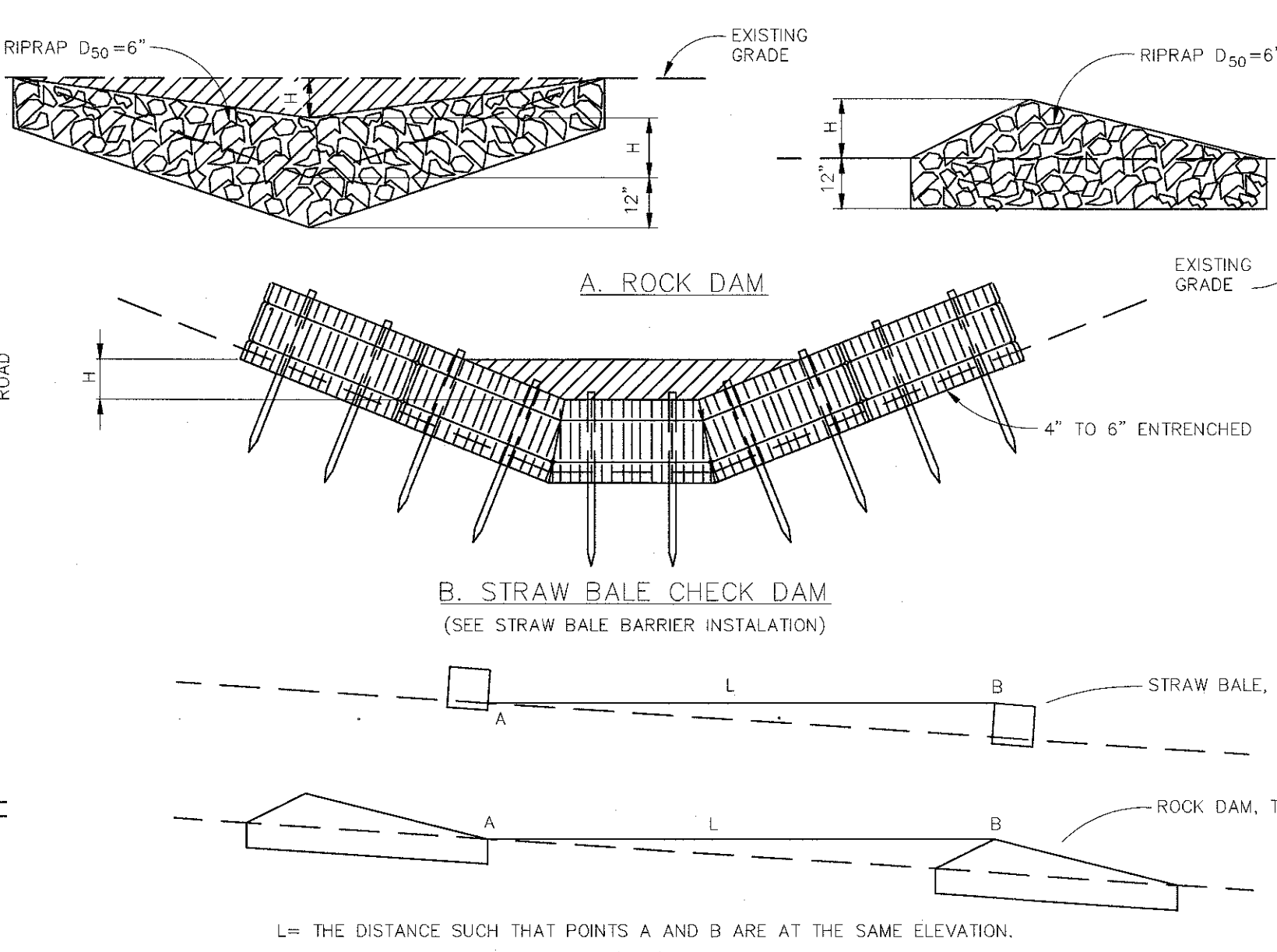
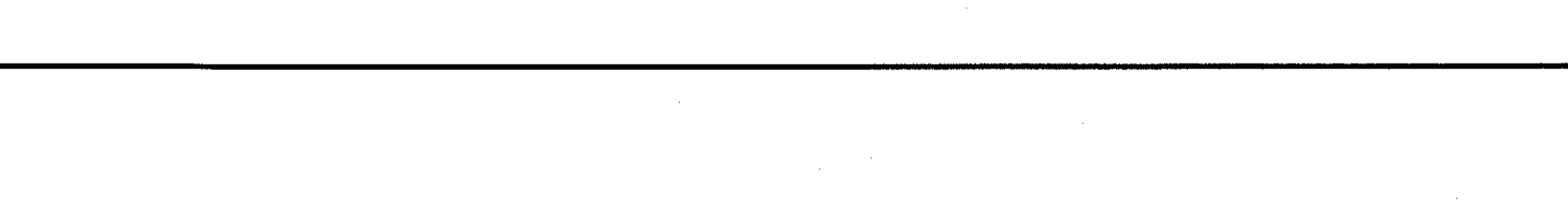
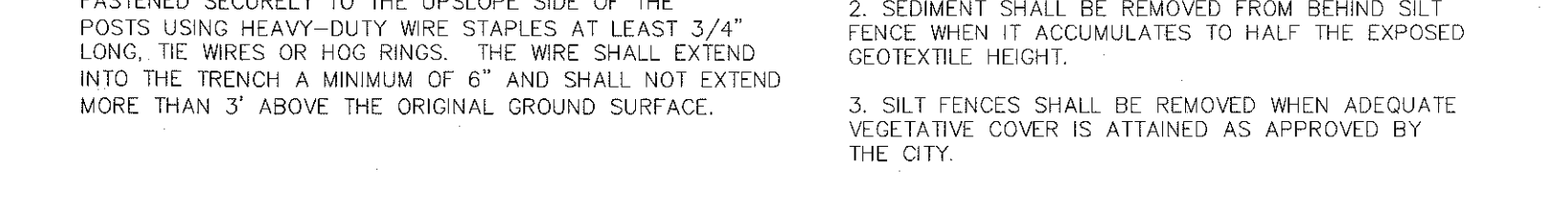
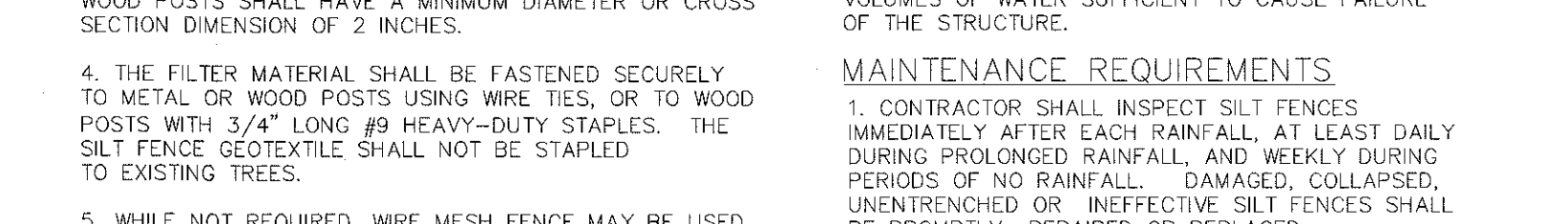
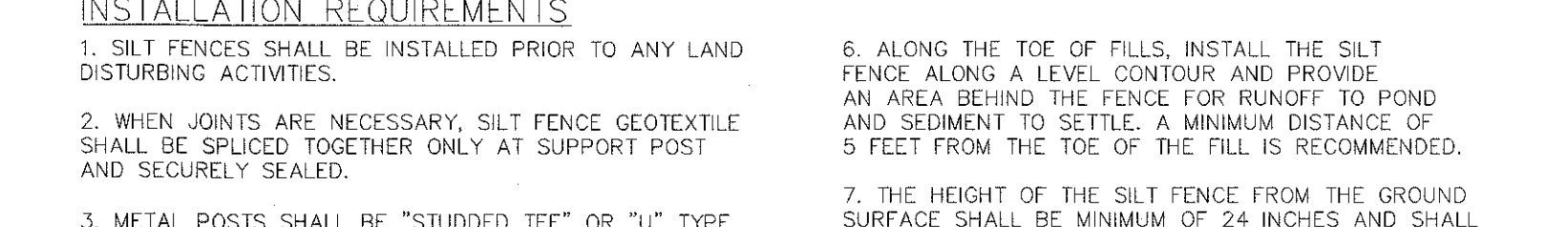
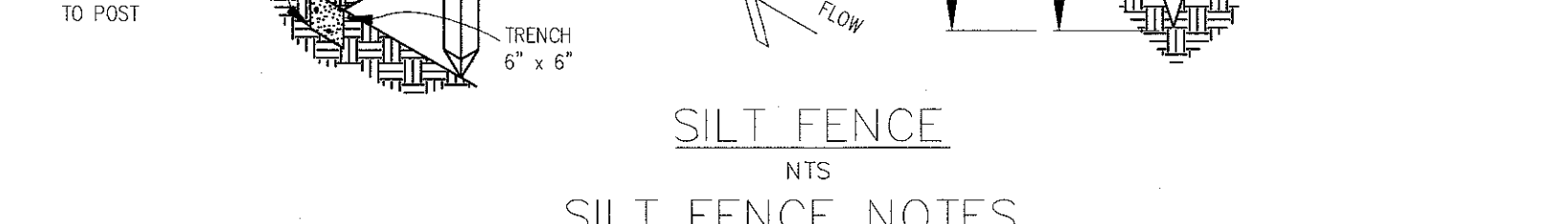
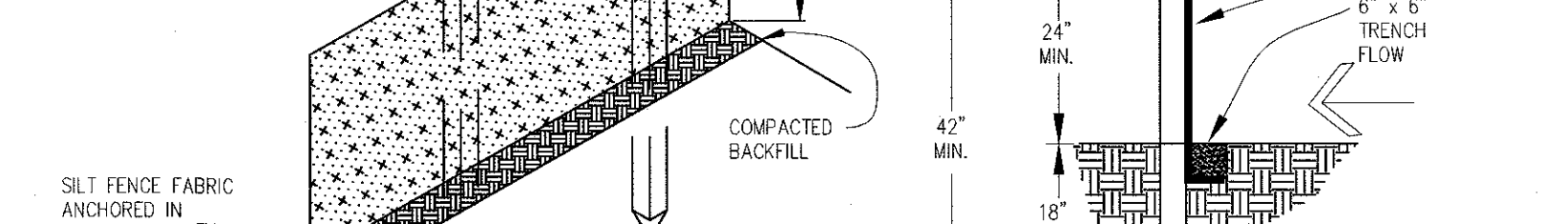
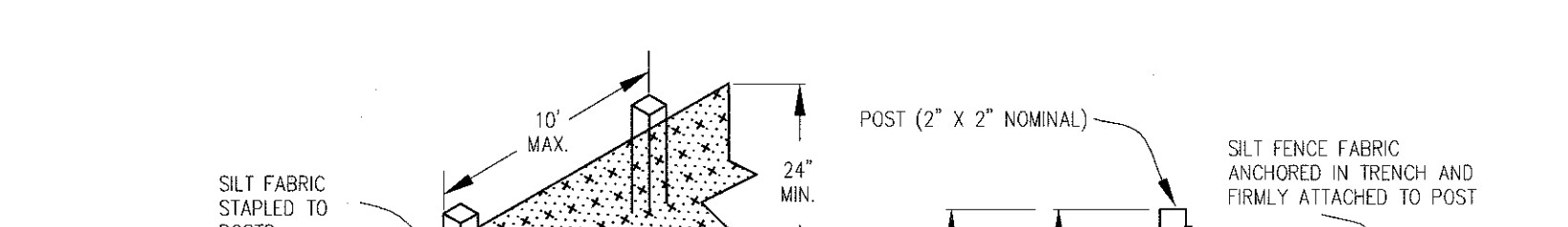
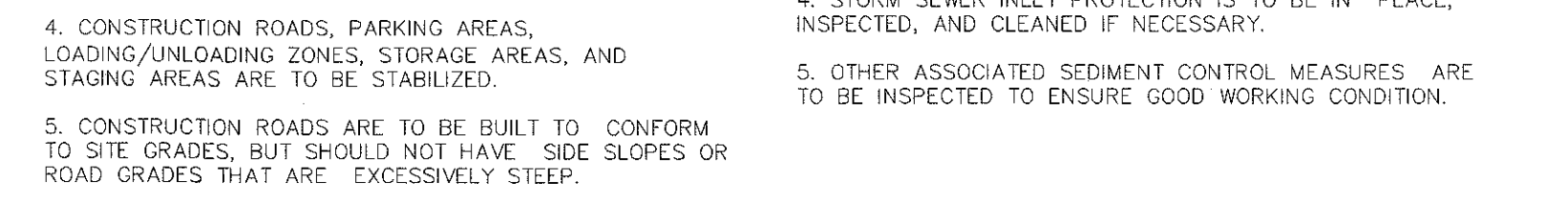
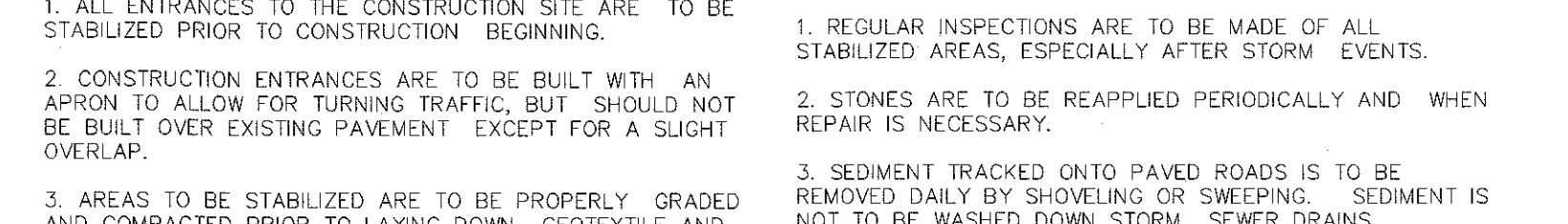
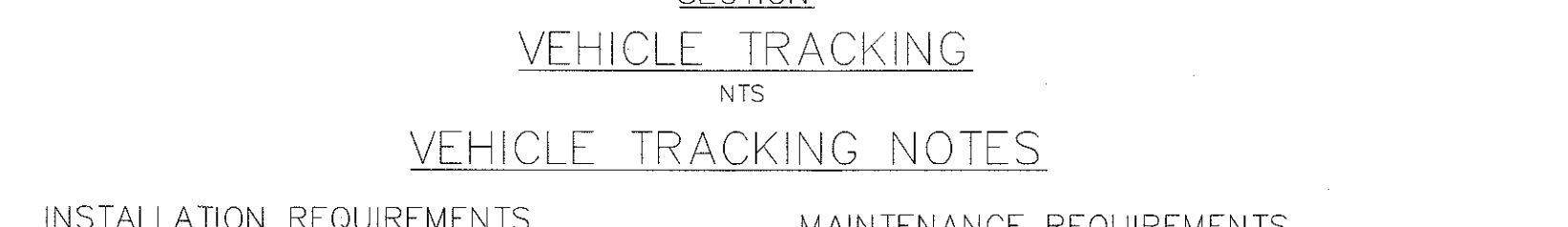
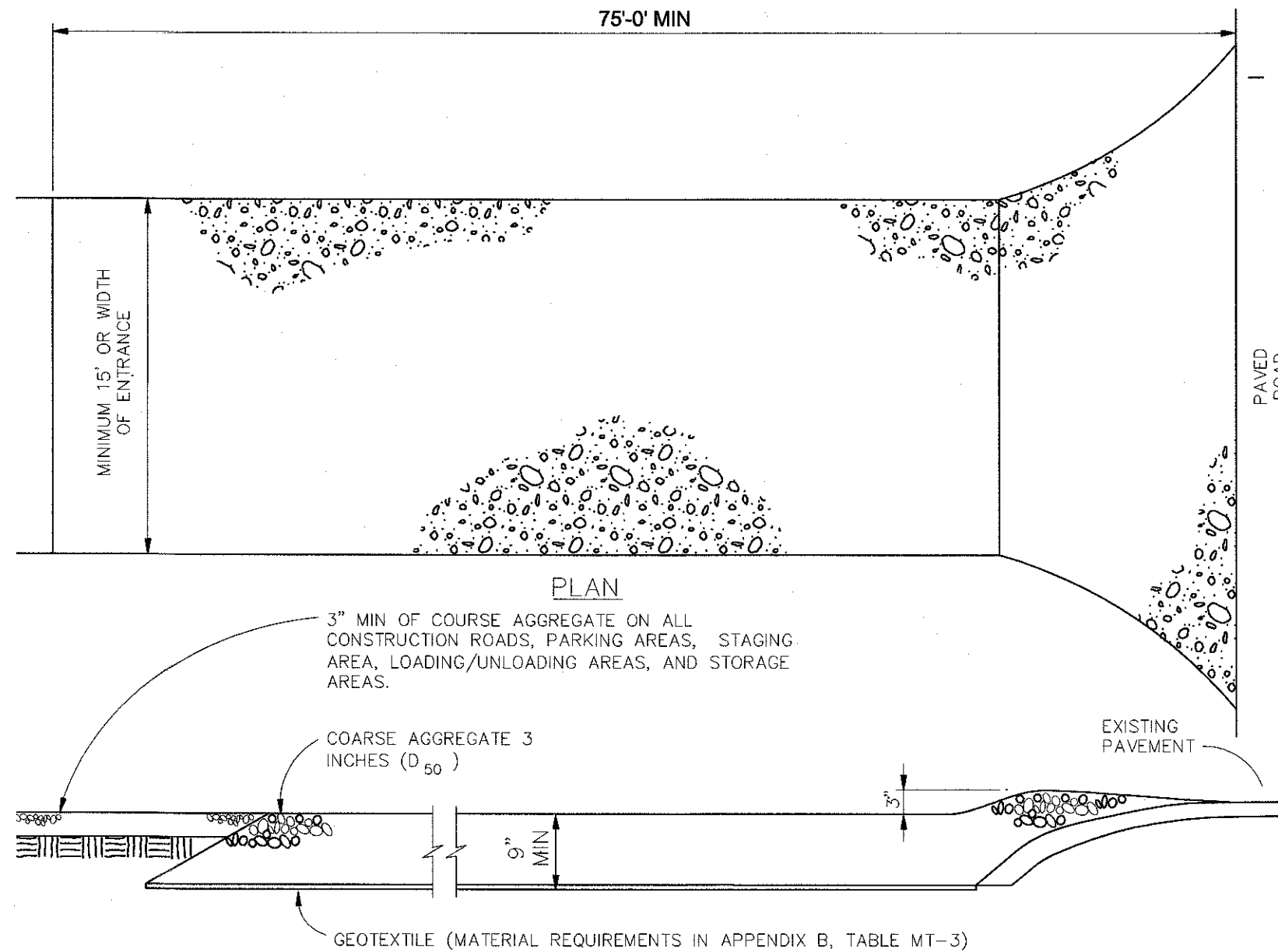
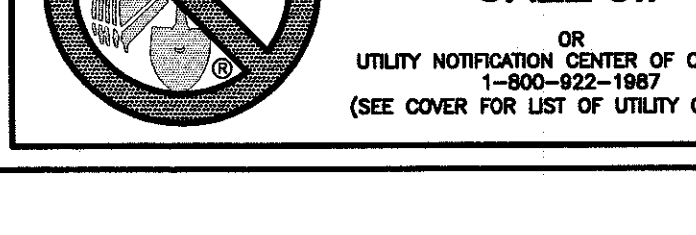
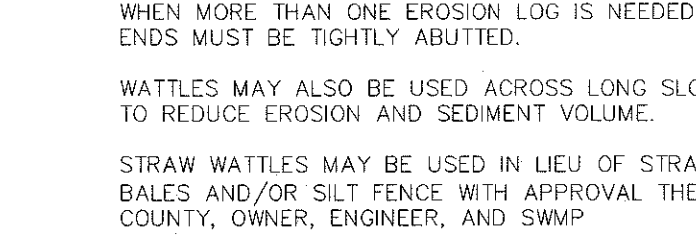
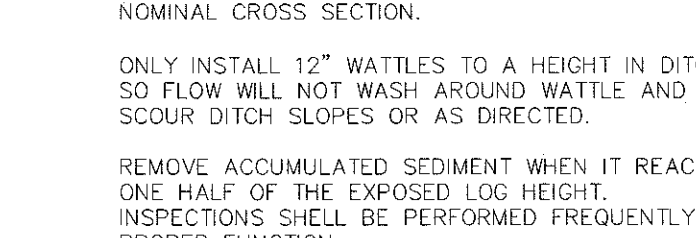
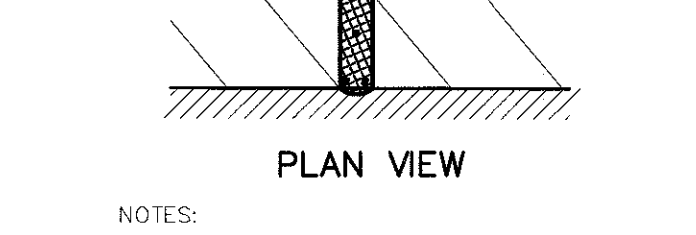
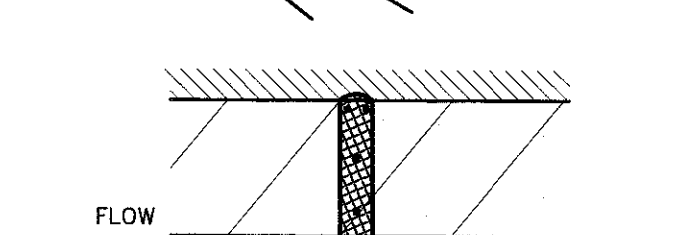
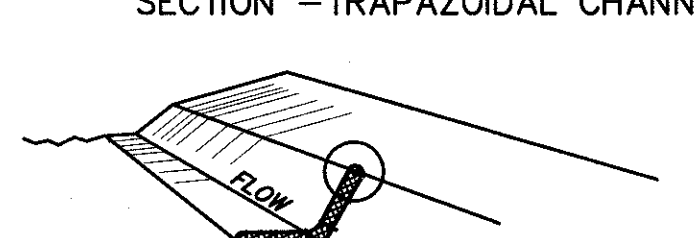
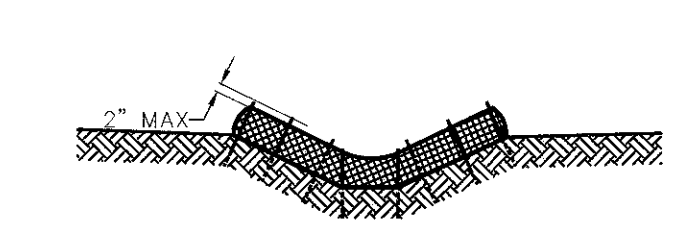
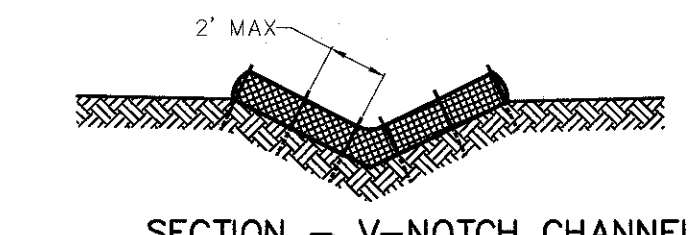
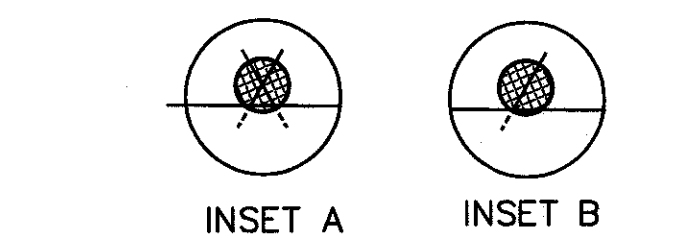
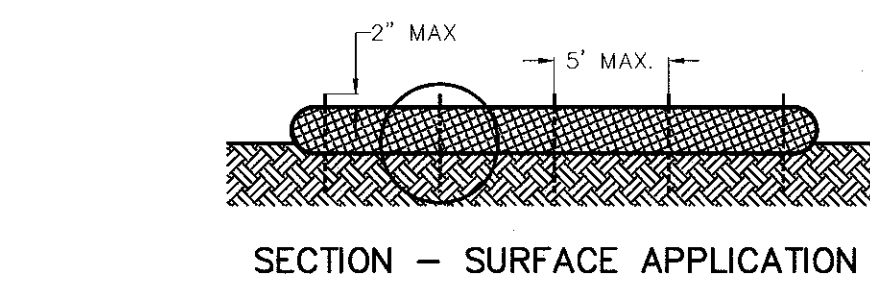
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)MERIDIAN SERVICE METRO DISTRICT WATER PLANT SITE PLAN & FLOOR PLAN
2)MERIDIAN RANCH FILING 9
3)THE ESTATES FILING 2 AT MERIDIAN RANCH
4)THE ESTATES FILING 3 AT MERIDIAN RANCH
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE





TWO WORKING DAYS
BEFORE YOU DIG CALL 811
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-222-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

1		2		3		4		No.	
Date		Date		Date		Date		Date	
Init.		Init.		Init.		Init.		Init.	
Appr.		Appr.		Appr.		Appr.		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 1 GRADING-EROSION CONTROL PLAN LAYOUT									
Drawn by	LOJ	Checked by	TAK	Date	FEB 2020				
Scale	AS SHOWN			24 of 26					
									

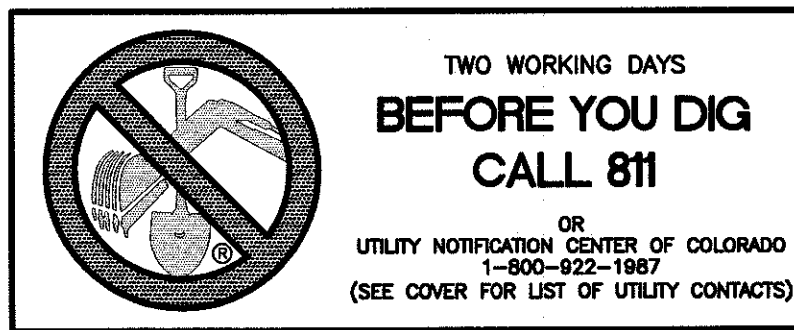


No.	Revisions	Date	Inst.	Appr.	Date
1					
2					
3					
4					

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

THE ESTATES AT	ROLLING HILLS RANCH FILING 1	GRADING+EROSION CONTROL PLAN	DETAIL SHEET
Drawn by	Loc	Checked by	TAK
Scale	AS SHOWN	Date	26 of 26

31429	3-13-2024
PROFESSIONAL ENGINEER	



*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.