

**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]	STMH	STORM SEWER MANHOLE
[Symbol]	ST	STORM SEWER LINE
[Symbol]	SS	SANITARY SEWER MAIN
[Symbol]	SSMH	SANITARY SEWER MANHOLE
[Symbol]	WM	WATER MAIN (ALL PIPES PVC, UNLESS OTHERWISE NOTED)
[Symbol]	GV	WATER GATE VALVE
[Symbol]	BV	WATER BUTTERFLY VALVE
[Symbol]	BOV	WATER BLOW-OFF VALVE
[Symbol]	HYD ASSY	FIRE HYDRANT ASSEMBLY
[Symbol]	TEE W/GV	WATER TEE W/ GATE VALVES
[Symbol]	ATT SW	ATTACHED SIDEWALK
[Symbol]		STANDARD PEDESTRIAN RAMP PER SD-2-40 & M-608-1 (SH 6 OF 6)
[Symbol]		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]	PI	POINT OF INTERSECTION
[Symbol]	BT	BEGINNING OF TRANSITION
[Symbol]	ET	END OF TRANSITION
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')

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

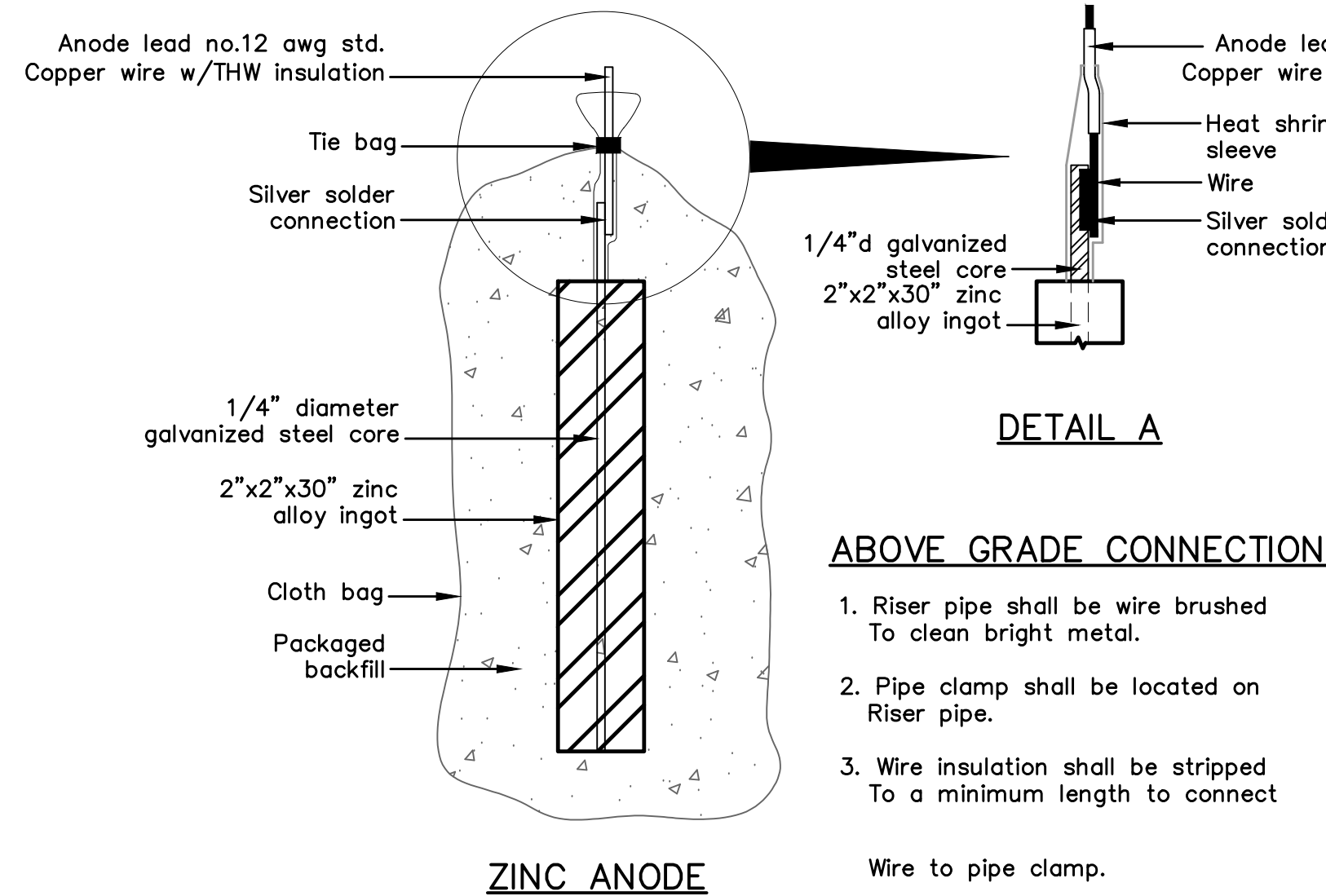
**MERIDIAN RANCH**

WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS  
 DETAIL SHEET

Drawn by: [ ]  
 Checked by: [ ]  
 Date: JUN 2018

Scale: AS SHOWN 3 of 55

Revisions: [ ]  
 No. [ ]  
 Date [ ]  
 Appr. [ ]

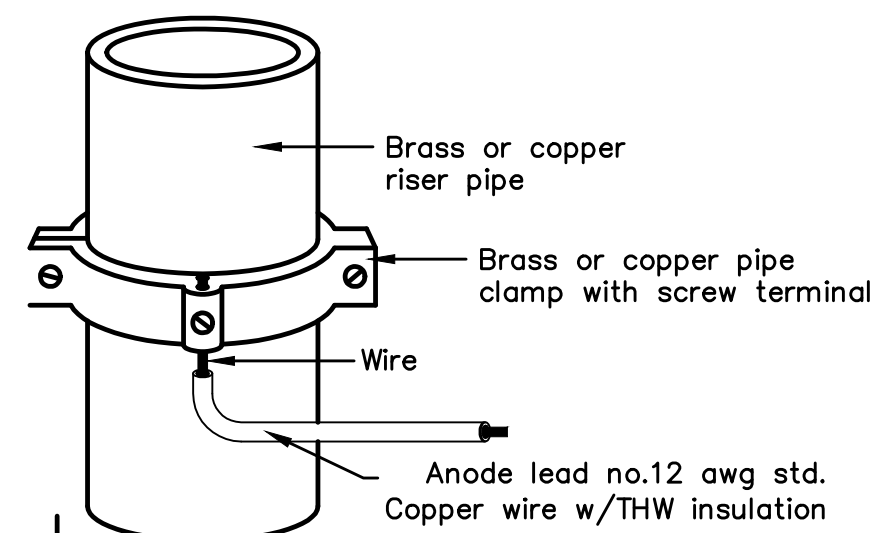


**ZINC ANODE AND CONNECTORS FOR 1" AND 2" WATER SERVICE**

**PACKAGED BACKFILL COMPOSITION:**

75% gypsum  
20% bentonite  
5% sodium sulfate

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

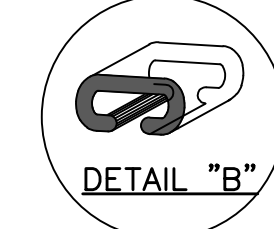
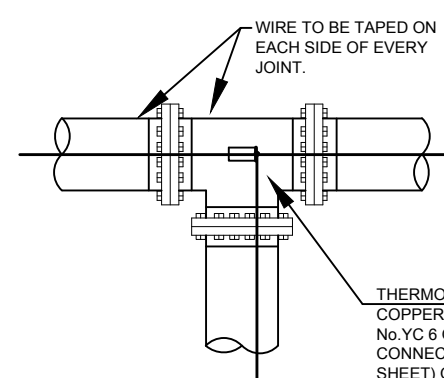
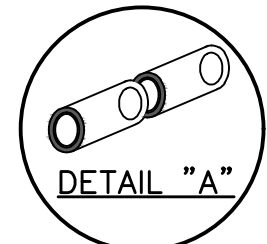
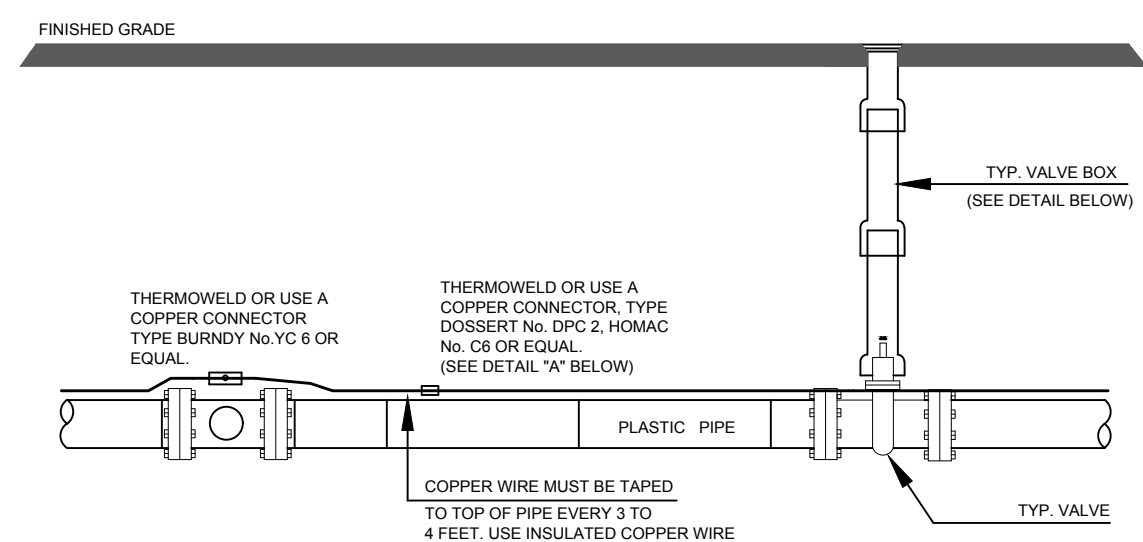


**ANODE LEAD ABOVE GRADE CONNECTION**

**ABOVE GRADE CONNECTION NOTES:**

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.



**Anode Design**

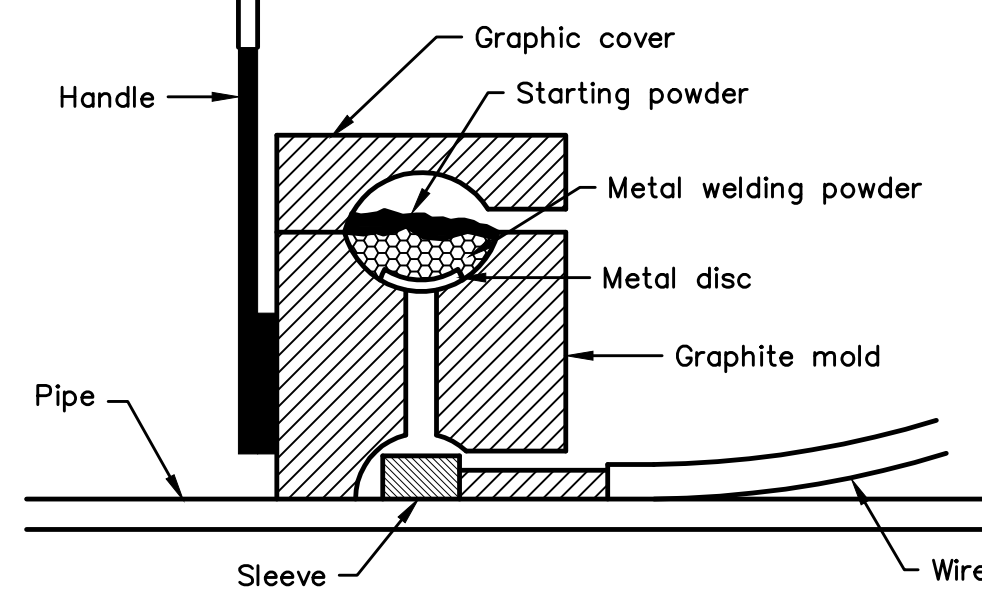
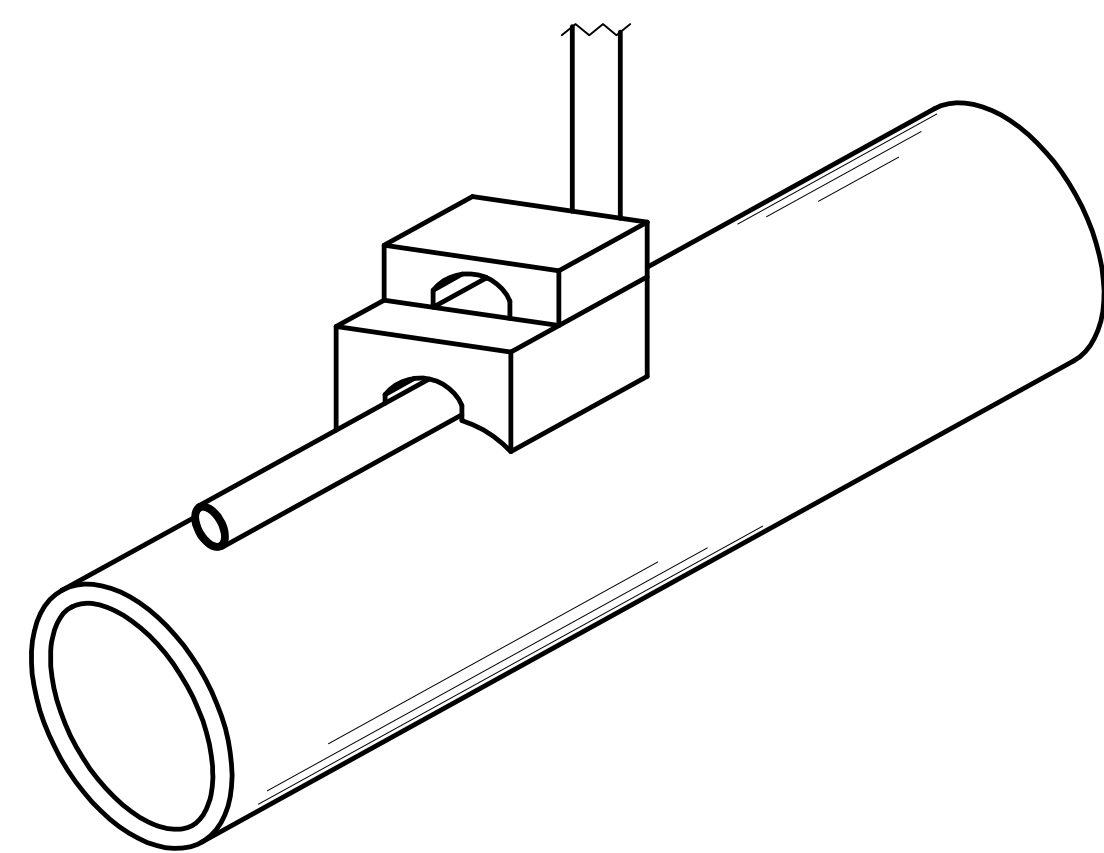
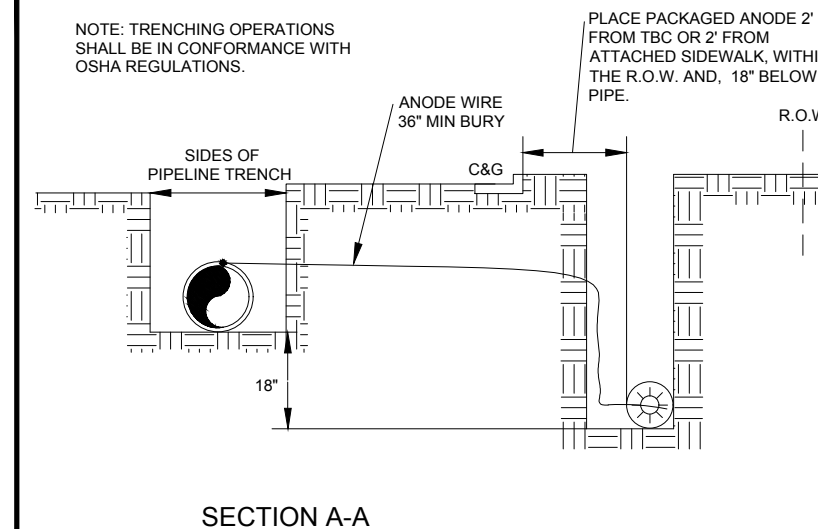
For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet	Anode (see note 2)
4	4.8	76.3	17 lb
6	6.9	53.1	17 lb
8	9.05	40.5	17 lb
12	13.20	27.7	17 lb
16	16	21.0	32 lb
20	20	16.9	32 lb
24	24	14.2	48 lb
30	30	11.4	48 lb
36	36	9.57	48 lb
42	42	8.24	48 lb
48	48	7.21	48 lb
54	54	6.42	48 lb

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

**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.



**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:**

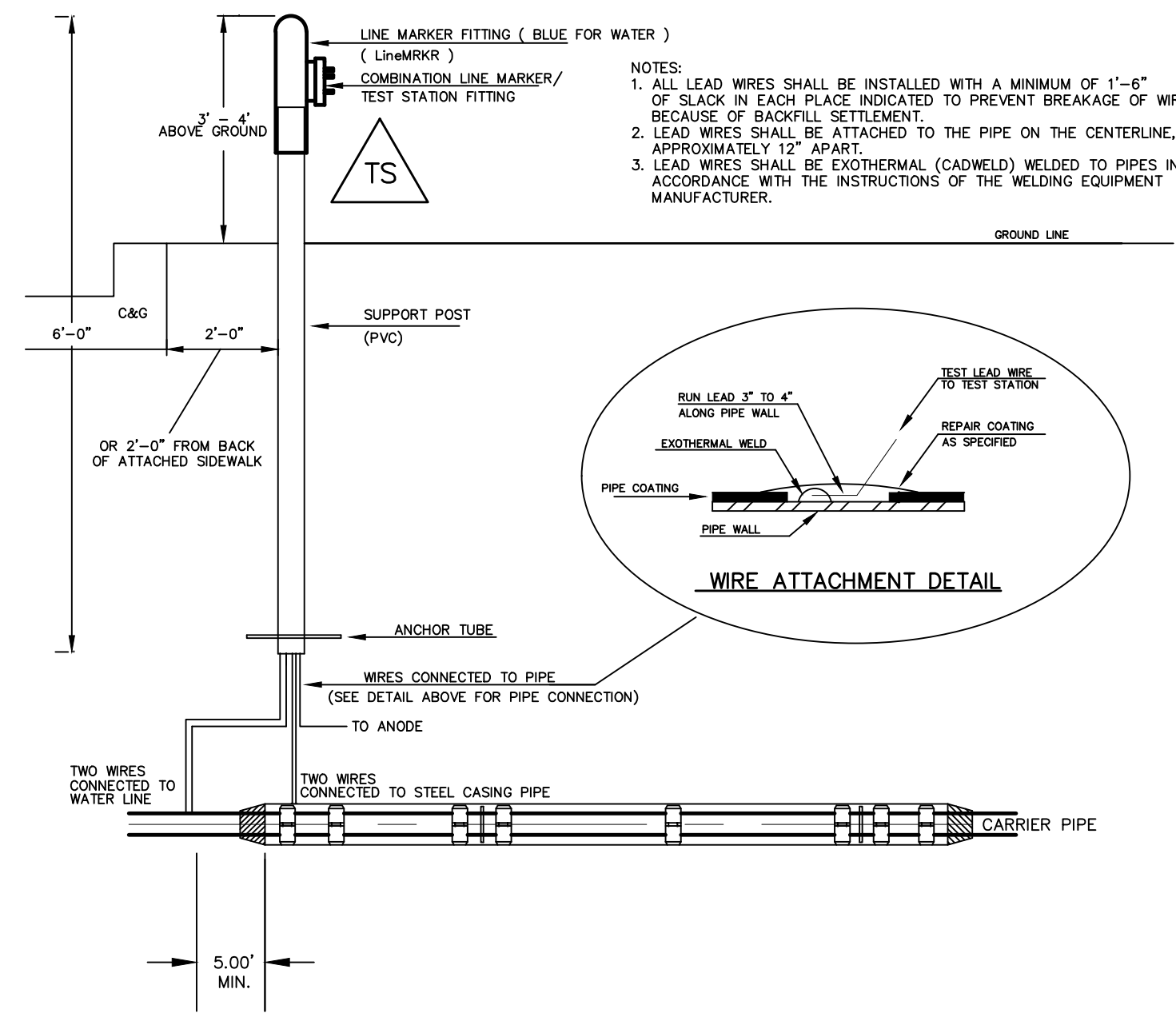
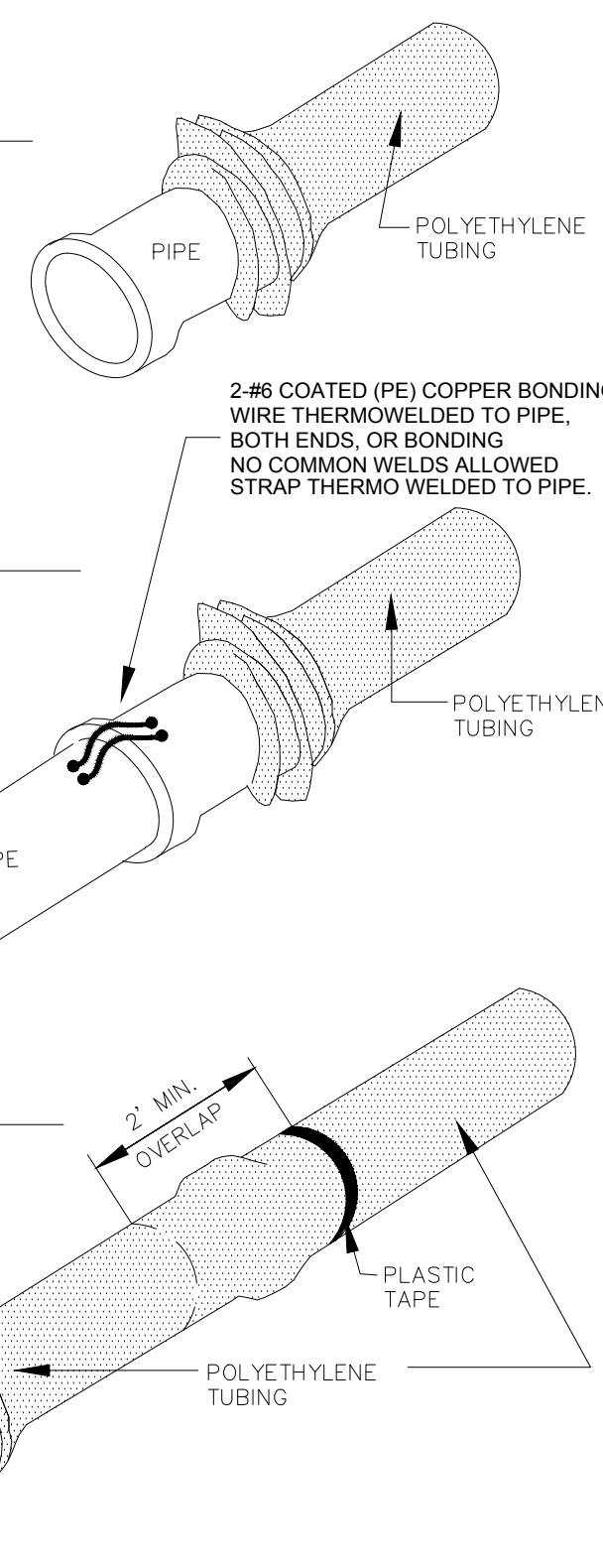
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

**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:**

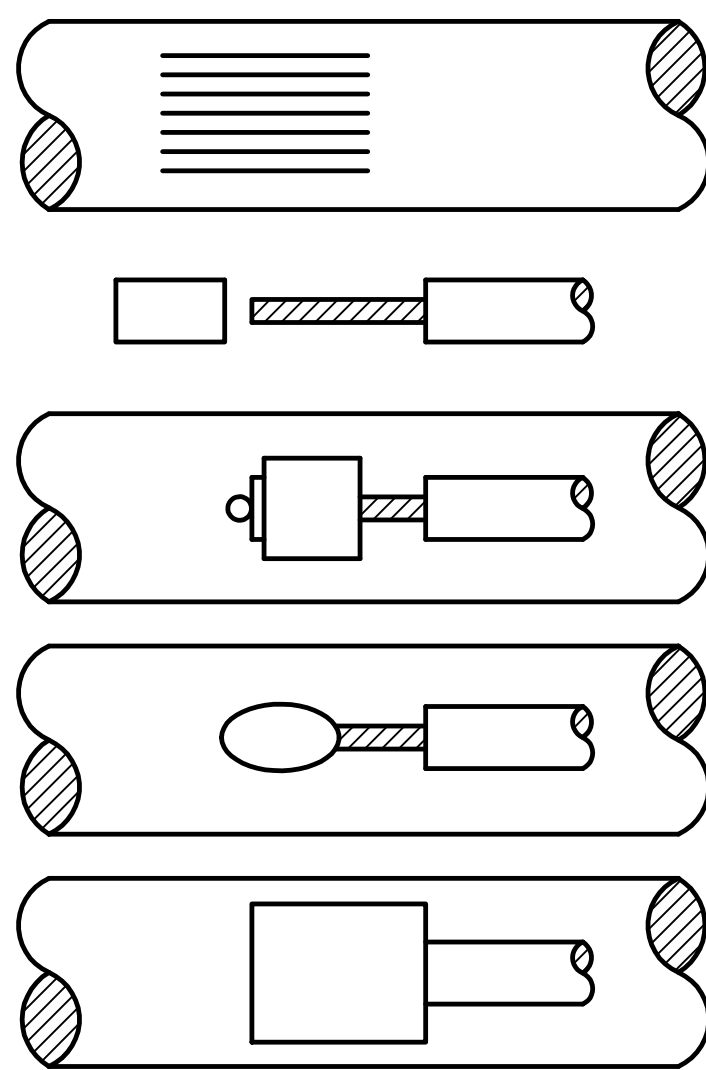
OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.



**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.



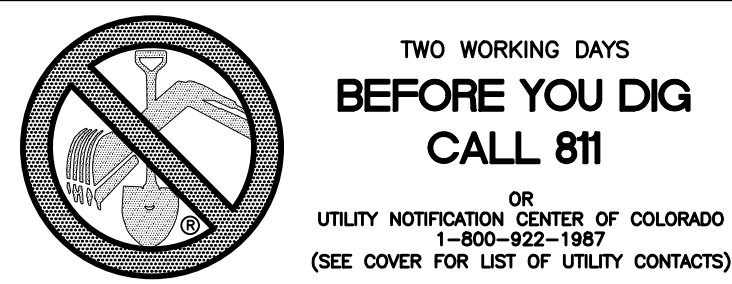
- STEP 1.** File structure connection area (3 in x 3 in) to bare shiny metal and clean.
- STEP 2.** Strip insulation from wire. Attach sleeve where required by manufacturer.
- STEP 3.** Hold mold firmly with opening away from operator and ignite with flint gun.
- STEP 4.** Remove slag from connection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

**NOTES:**

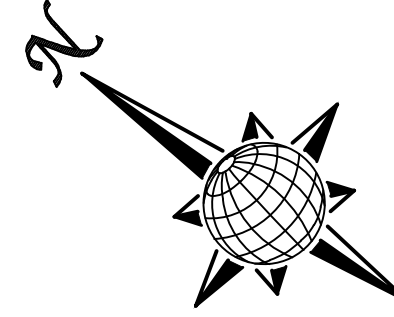
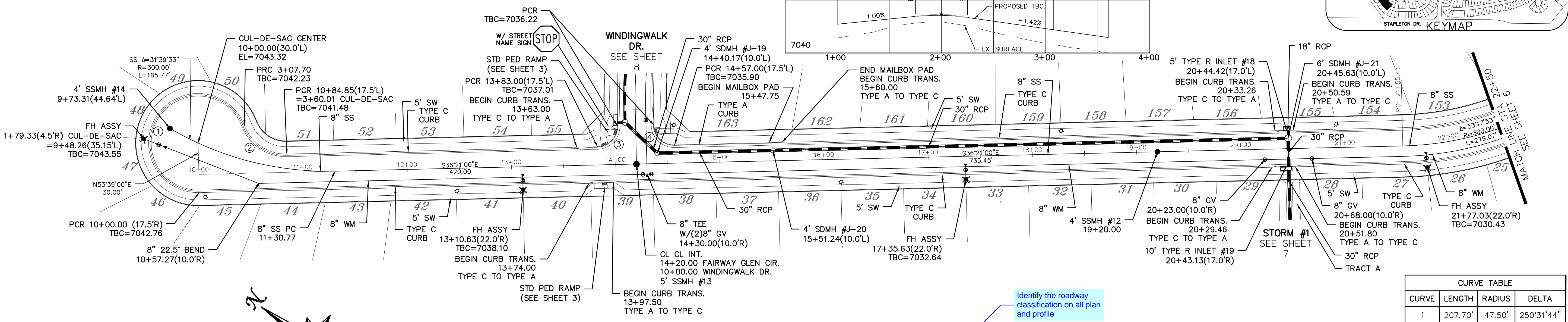
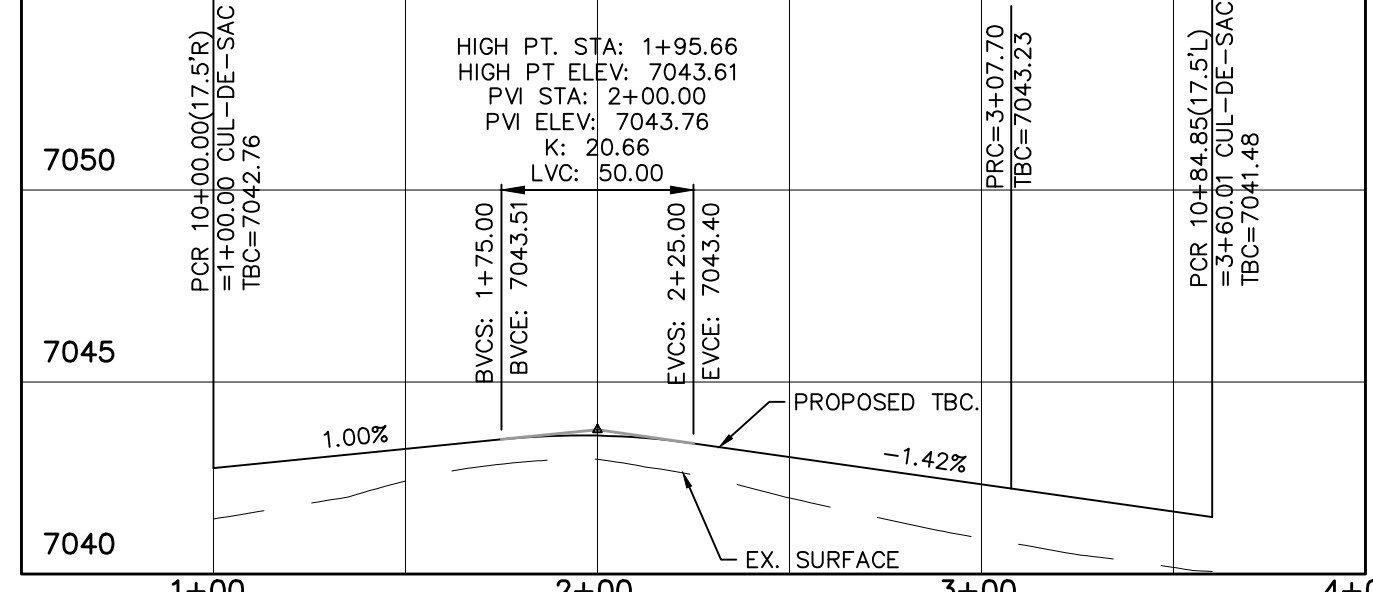
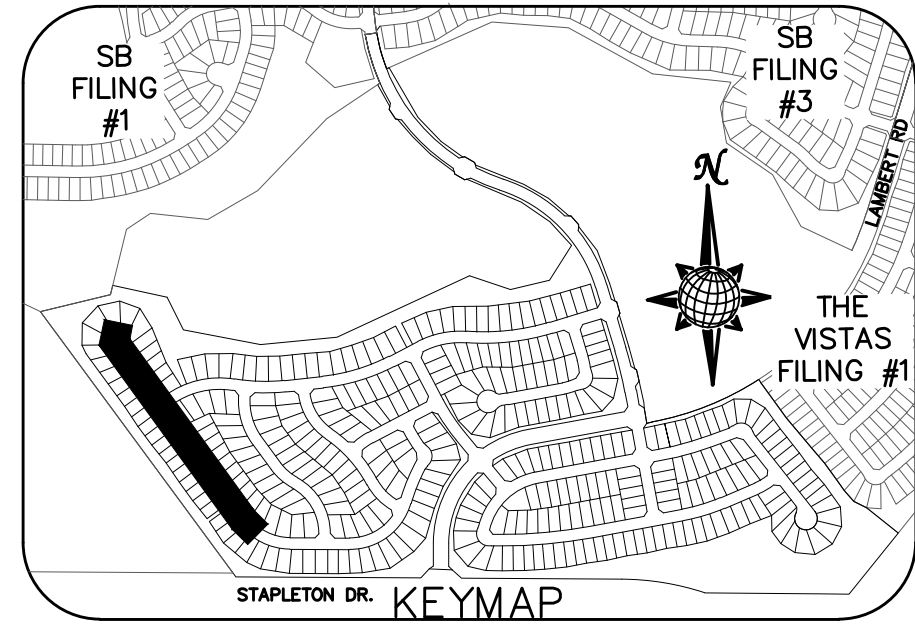
1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

**EXOTHERMIC WELD PROCESS**

Drawn by	LOG	Checked by	TAK	Date	JAN 2018
Scale	AS SHOWN	4 of	55		
<b>WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS</b>					
<b>DETAIL SHEET</b>					
<b>MERIDIAN RANCH</b>					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
No.	Revisions	Date	Appr.	Date	

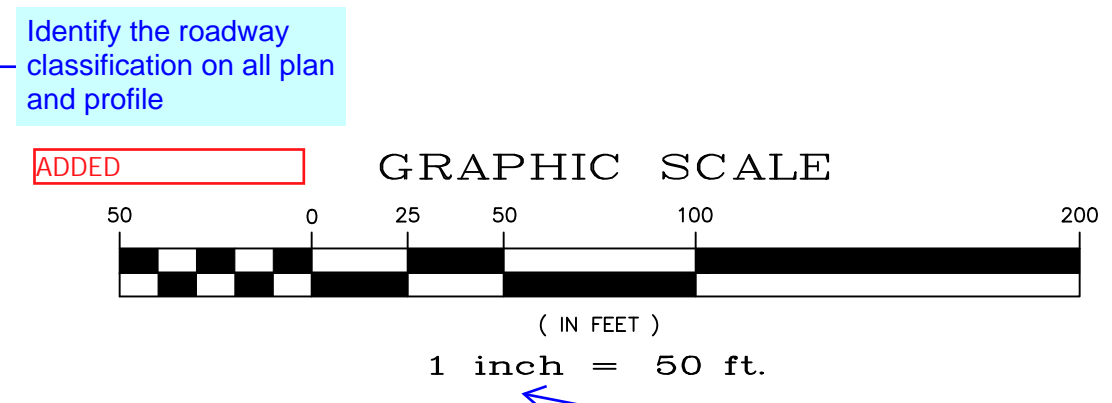


FAIRWAY GLEN CIR.  
CUL-DE-SAC  
(ALL GRADES ARE TBC)



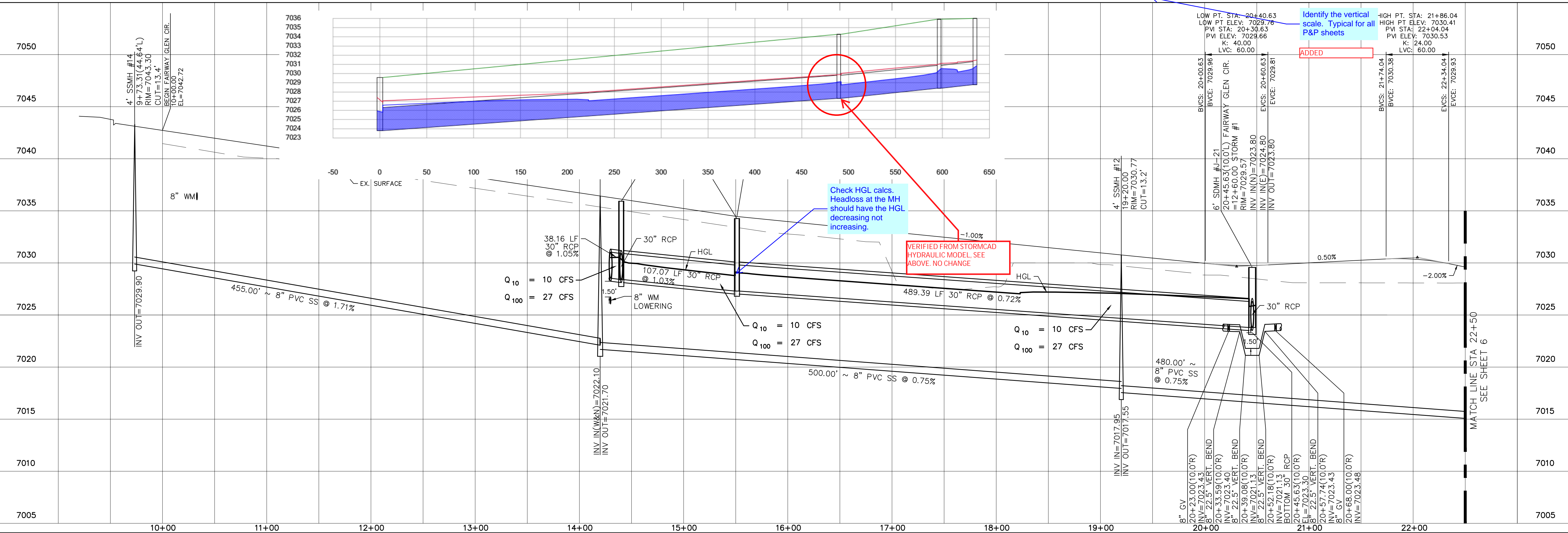
# FAIRWAY GLEN CIR.

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



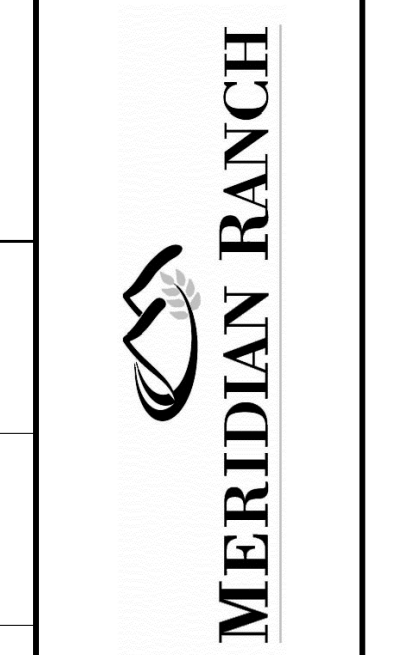
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1	207.70'	47.50'	250°31'44"
2	52.32'	42.50'	70°31'44"
3	30.63'	19.50'	90°00'00"
4	30.63'	19.50'	90°00'00"

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



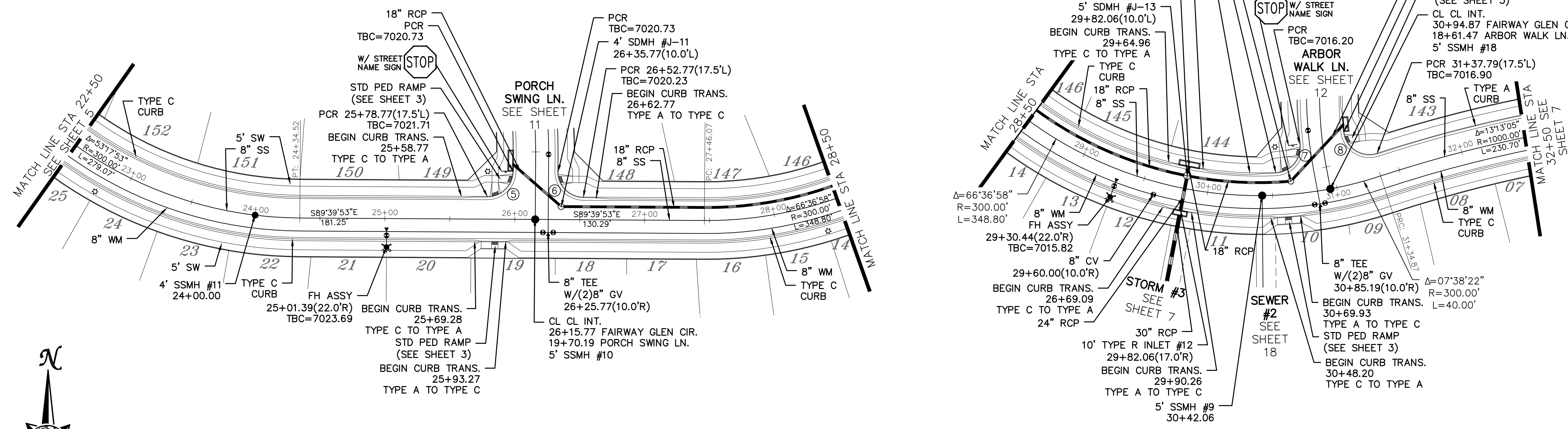
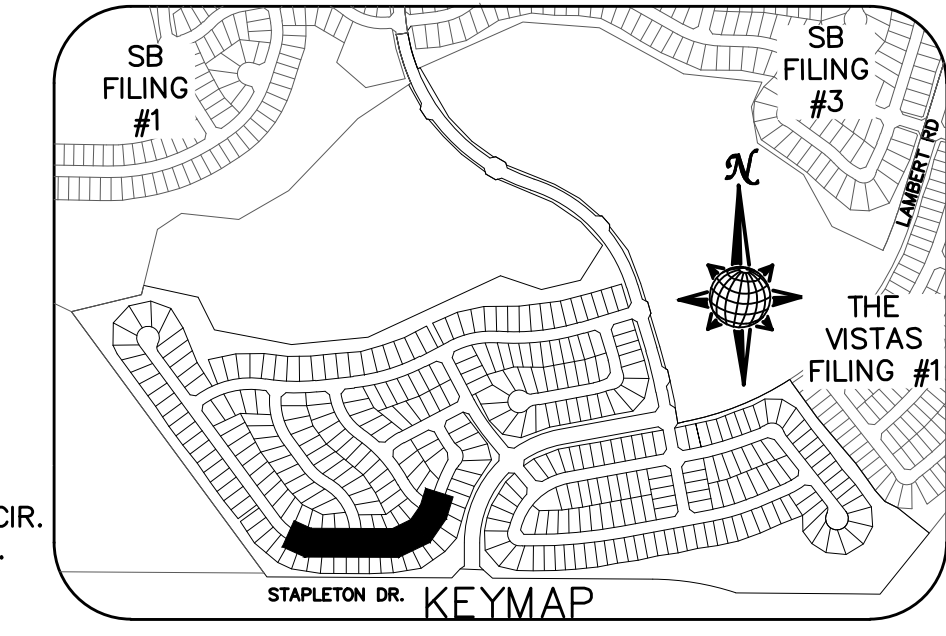
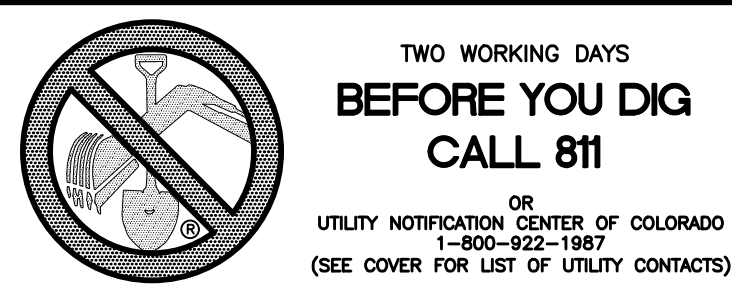
No.	Revisions	Date	Appr.	Date

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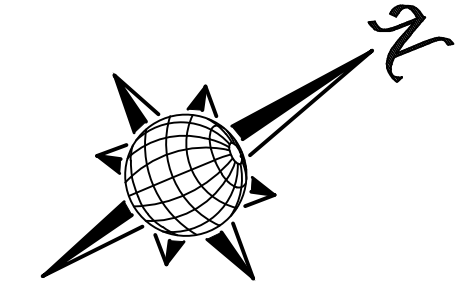
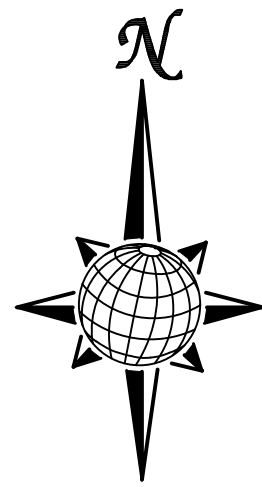
WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
FAIRWAY GLEN CIR.

Scale	AS SHOWN	5 of 55
Drawn by	LOG	
Checked by	TAK	
Date	JUN 2018	



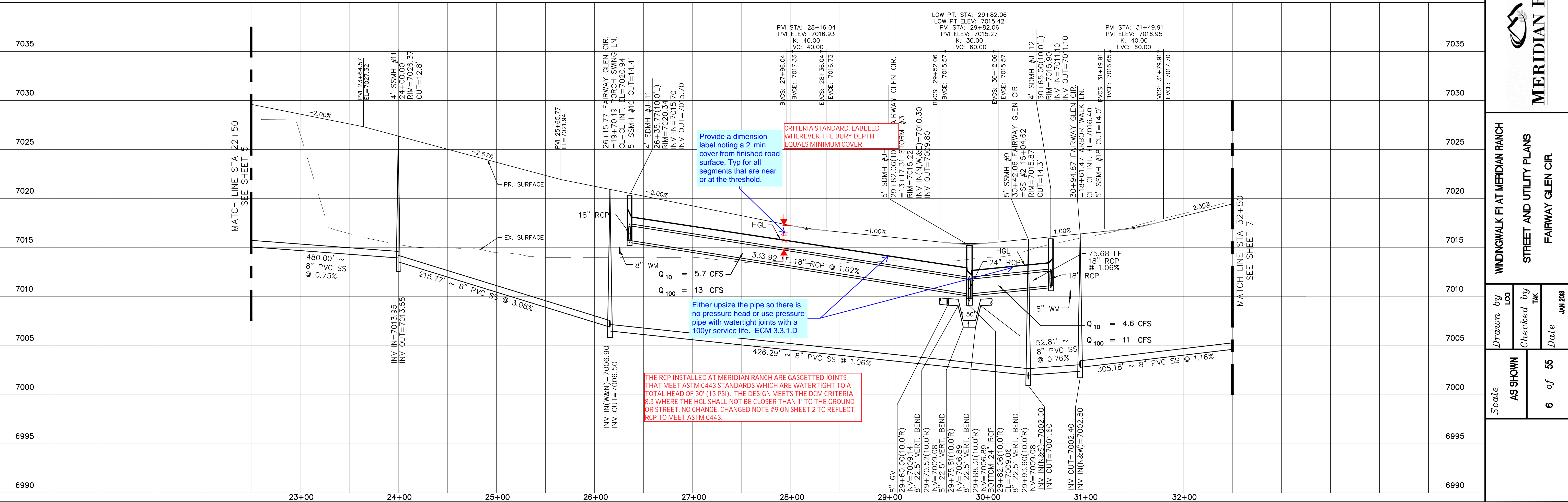
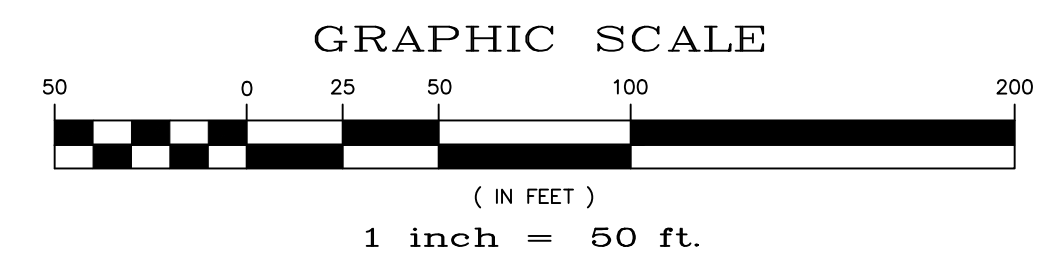
CURVE	LENGTH	RADIUS	DELTA
5	30.63'	19.50'	90°00'00"
6	30.63'	19.50'	90°00'00"
7	32.04'	19.50'	94°08'36"
8	34.84'	19.50'	102°22'10"

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# FAIRWAY GLEN CIR.

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



Date	Appr.	Date	Instr.	No.	Revisions

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WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
FAIRWAY GLEN CIR.

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Date  
JUN 2018

Scale  
AS SHOWN  
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INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

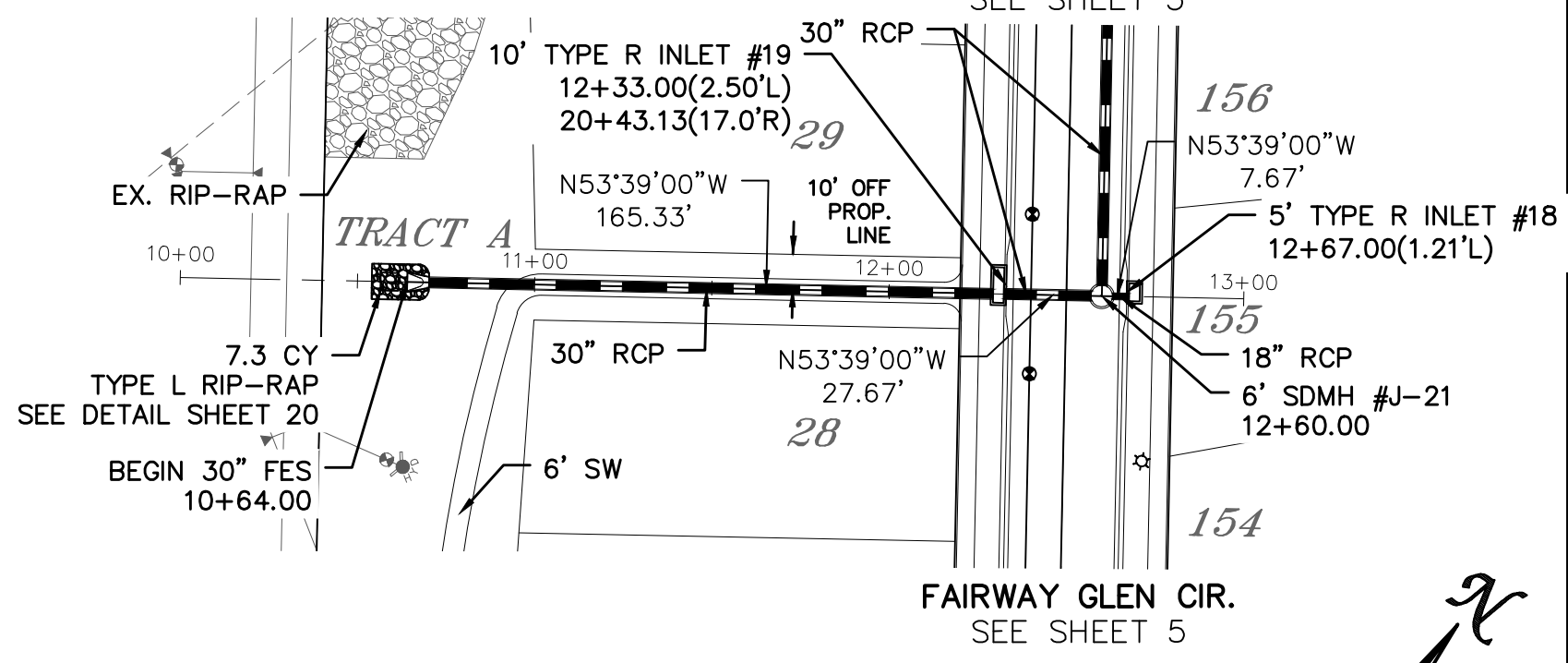
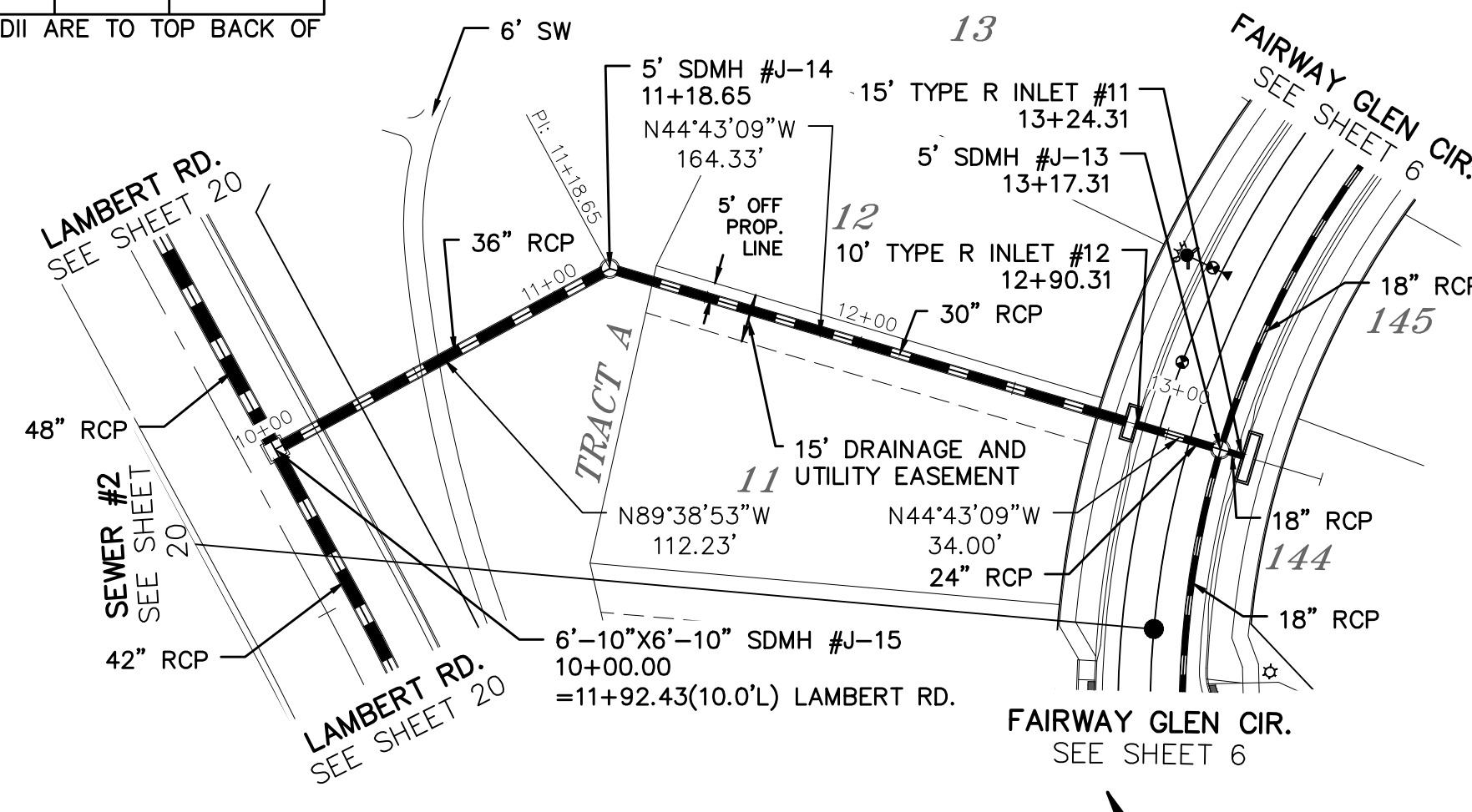
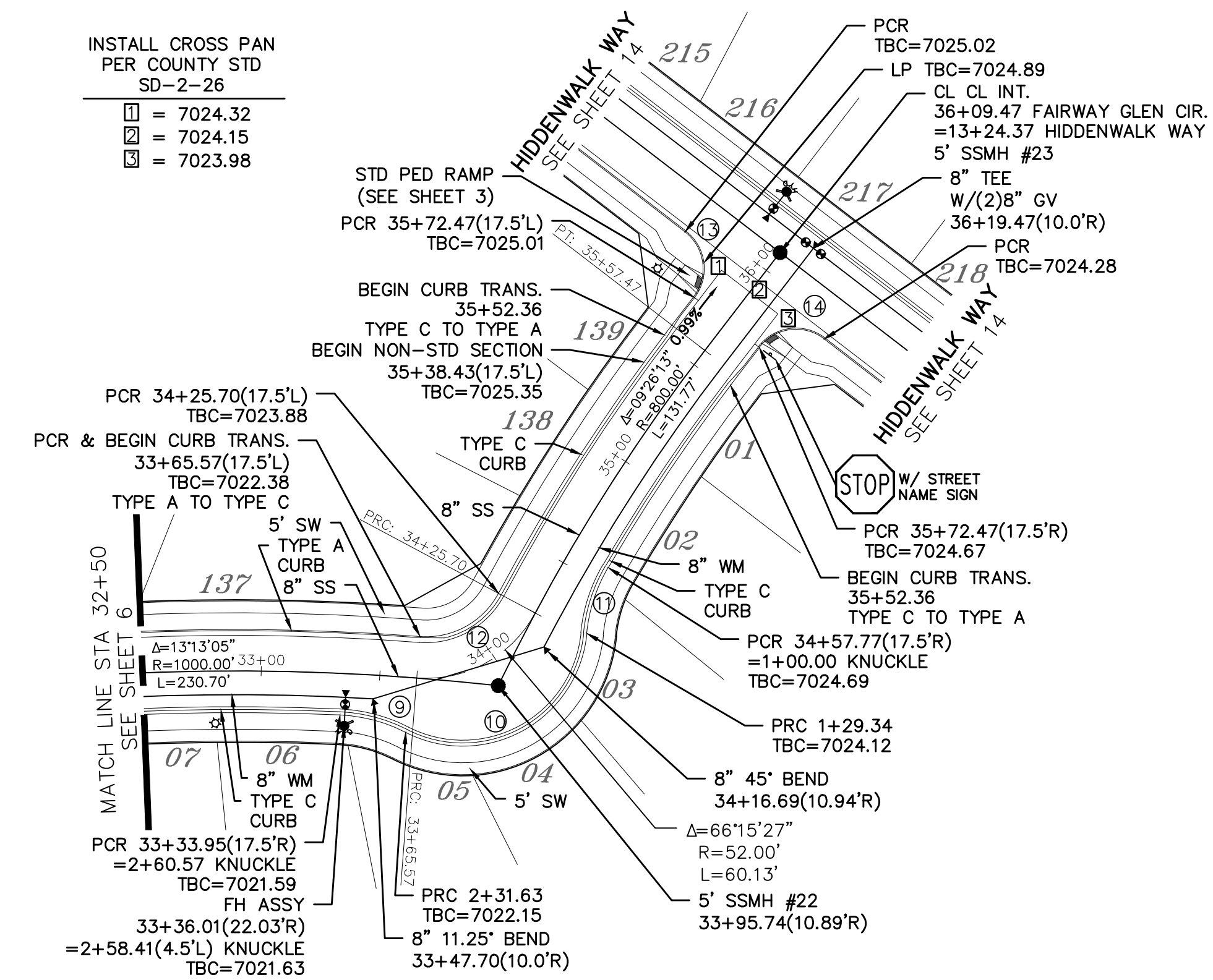
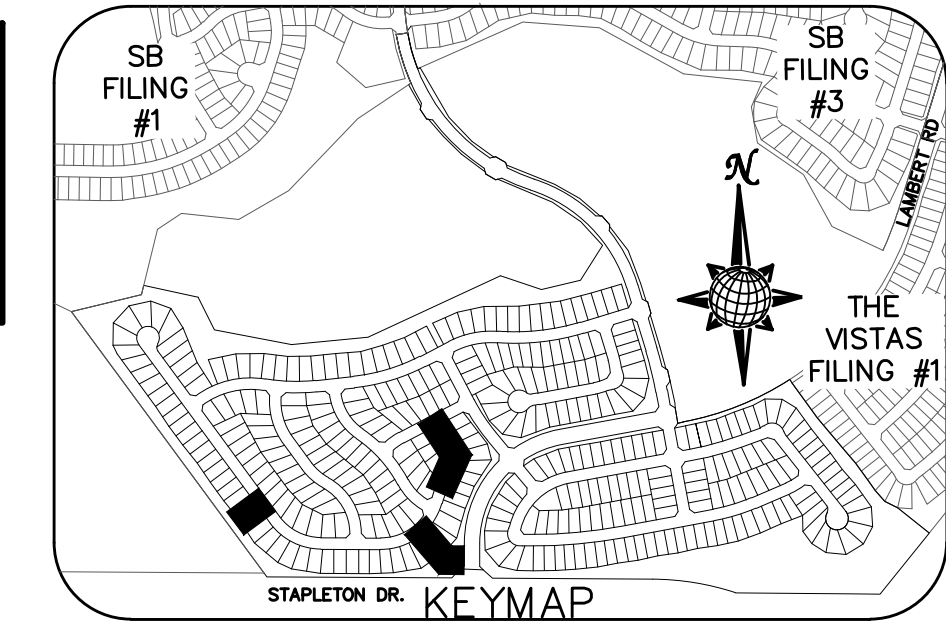
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□ = 7024.15  
□ = 7023.98

CURVE	LENGTH	RADIUS	DELTA
9	28.94'	67.50'	24°34'04"
10	102.28'	52.50'	111°37'30"
11	29.34'	67.50'	24°54'28"
12	39.90'	34.50'	66°15'27"
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"

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

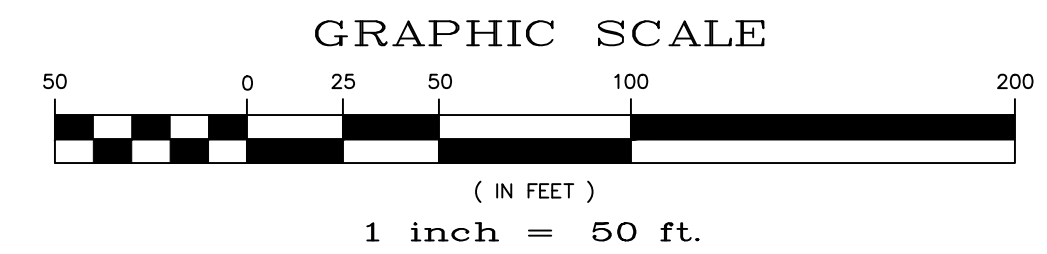
**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

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

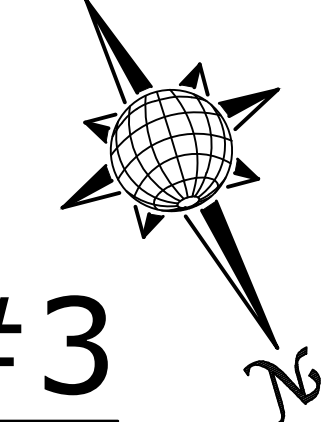


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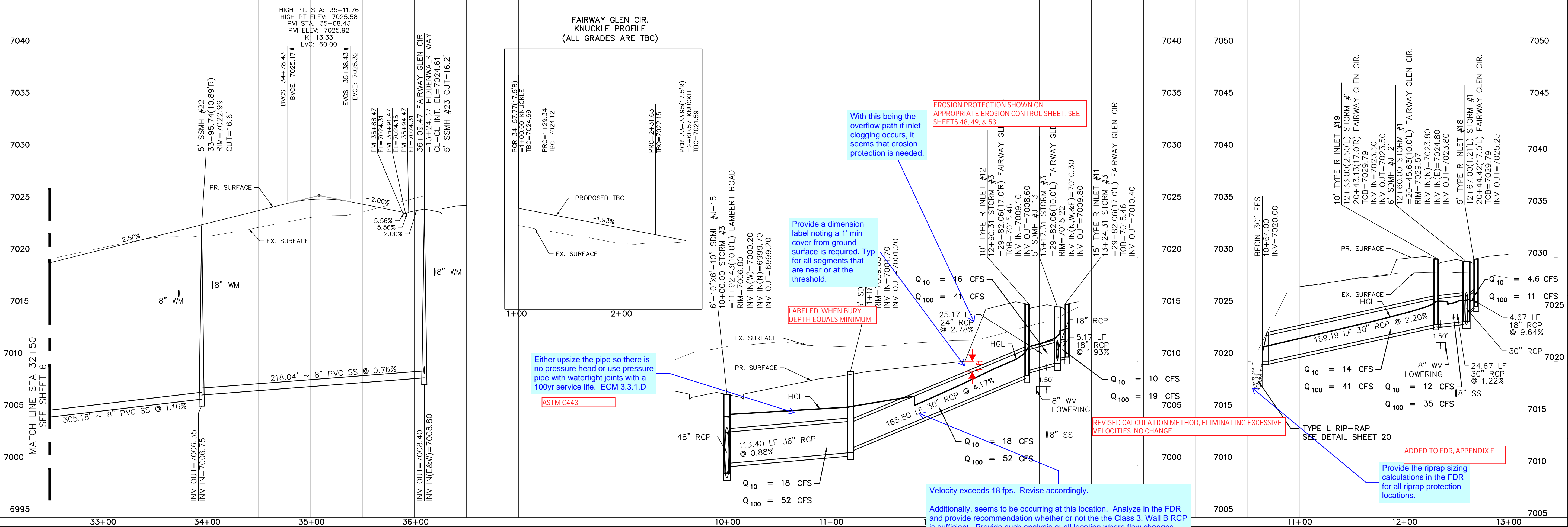
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



# STORM #3



# STORM #1



FAIRWAY GLEN CIR.  
KNUCKLE PROFILE  
(ALL GRADES ARE TBC)

With this being the overflow path if inlet clogging occurs, it seems that erosion protection is needed.

EROSION PROTECTION SHOWN ON APPROPRIATE EROSION CONTROL SHEET. SEE SHEETS 48, 49, & 53

Provide a dimension label noting a 1' min cover from ground surface is required. Typ for all segments that are near or at the threshold.

LABELLED WHEN BURY DEPTH EQUALS MINIMUM

Either upsize the pipe so there is no pressure head or use pressure pipe with watertight joints with a 100yr service life. ECM 3.3.1.D  
ASTM C443

Velocity exceeds 18 fps. Revise accordingly.

Additionally, seems to be occurring at this location. Analyze in the FDR and provide recommendation whether or not the Class 3, Wall B RCP is sufficient. Provide such analysis at all location where flow changes from supercritical to subcritical.

REVISED CALCULATION METHOD, ELIMINATING EXCESSIVE VELOCITIES. NO CHANGE.

Provide the riprap sizing calculations in the FDR for all riprap protection locations.

Date	Appr.	Date	Revisions	No.

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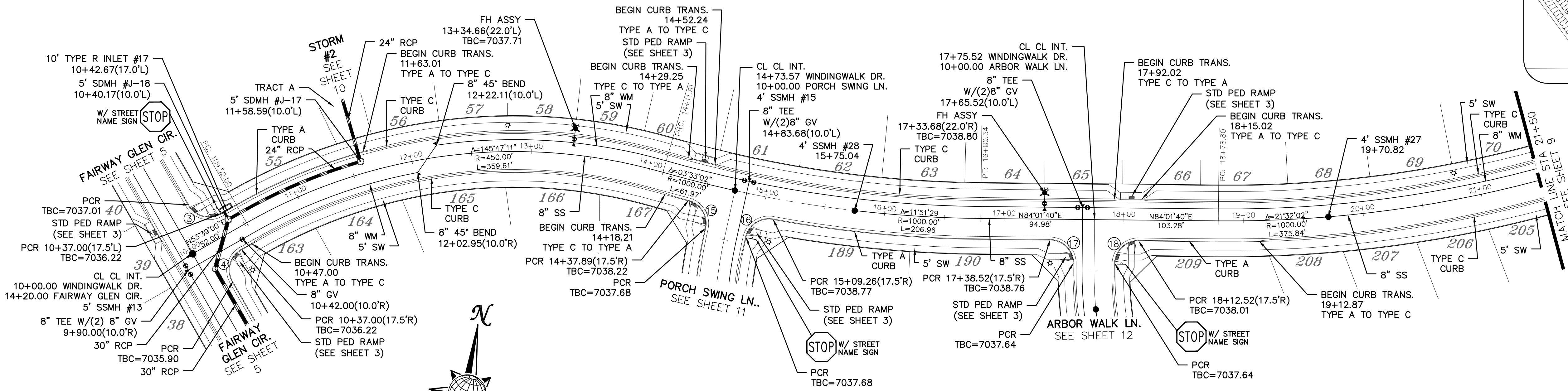
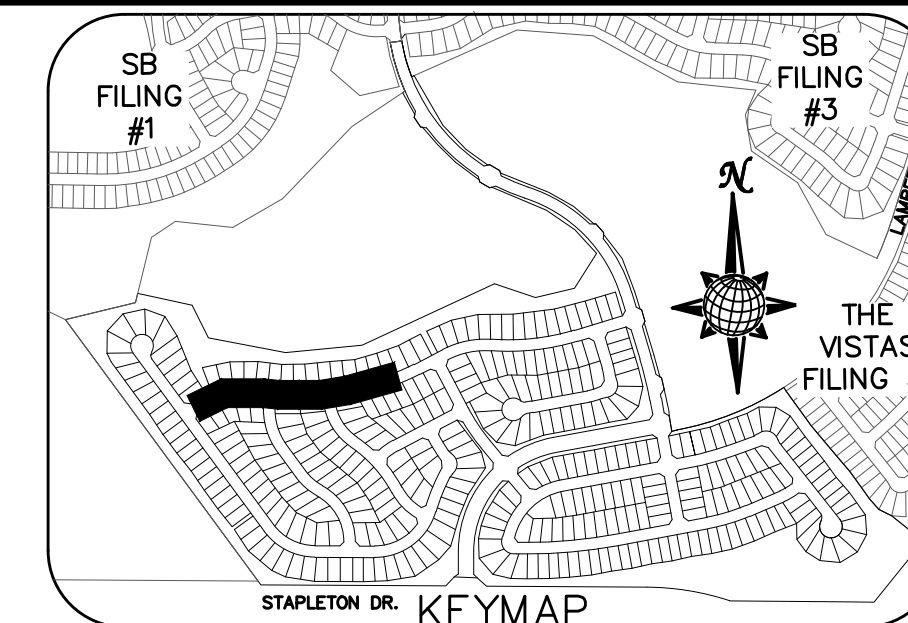
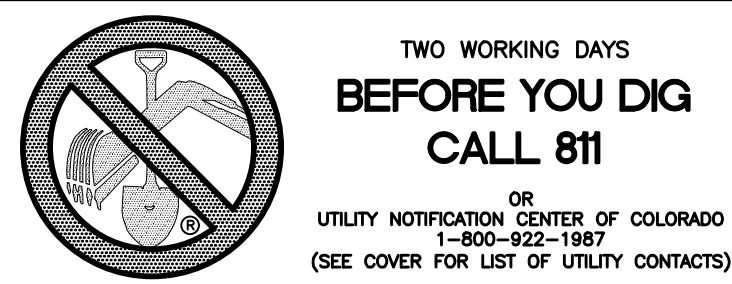
MERIDIAN RANCH

WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
FAIRWAY GLEN CIR.  
+ STORM #1 + STORM #3

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Date

Scale  
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JAN 2018



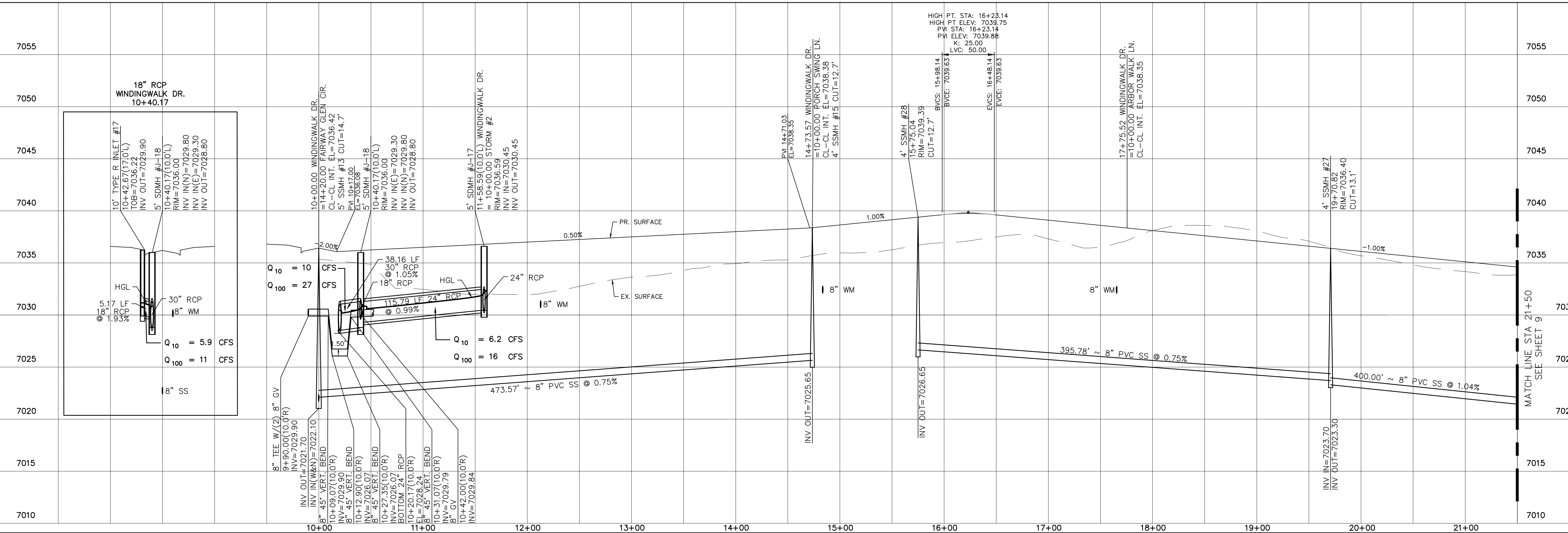
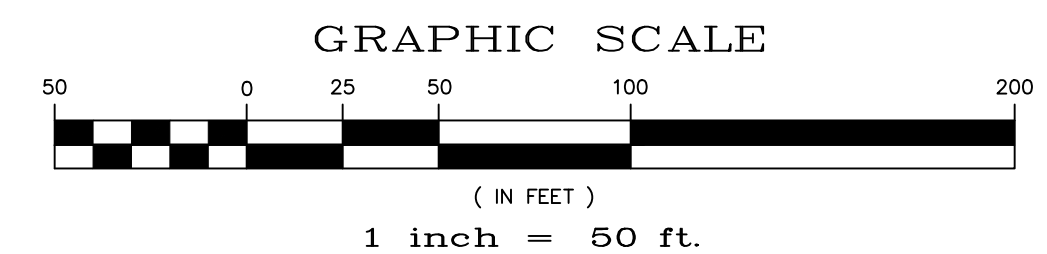
CURVE TABLE			
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4	30.63'	19.50'	90°00'00"
15	29.93'	19.50'	87°57'19"
16	29.93'	19.50'	87°57'19"
17	30.63'	19.50'	90°00'00"
18	30.63'	19.50'	90°00'00"

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



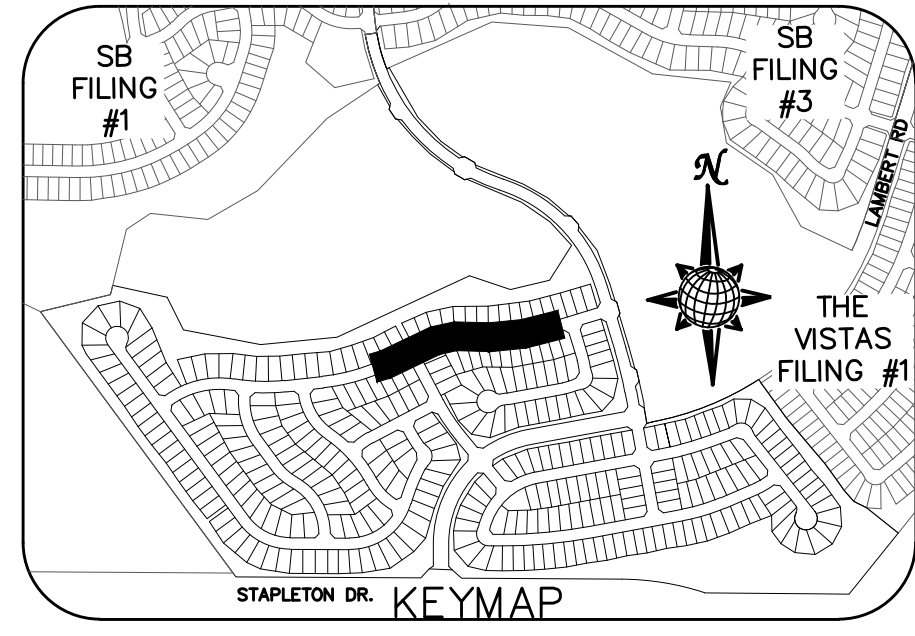
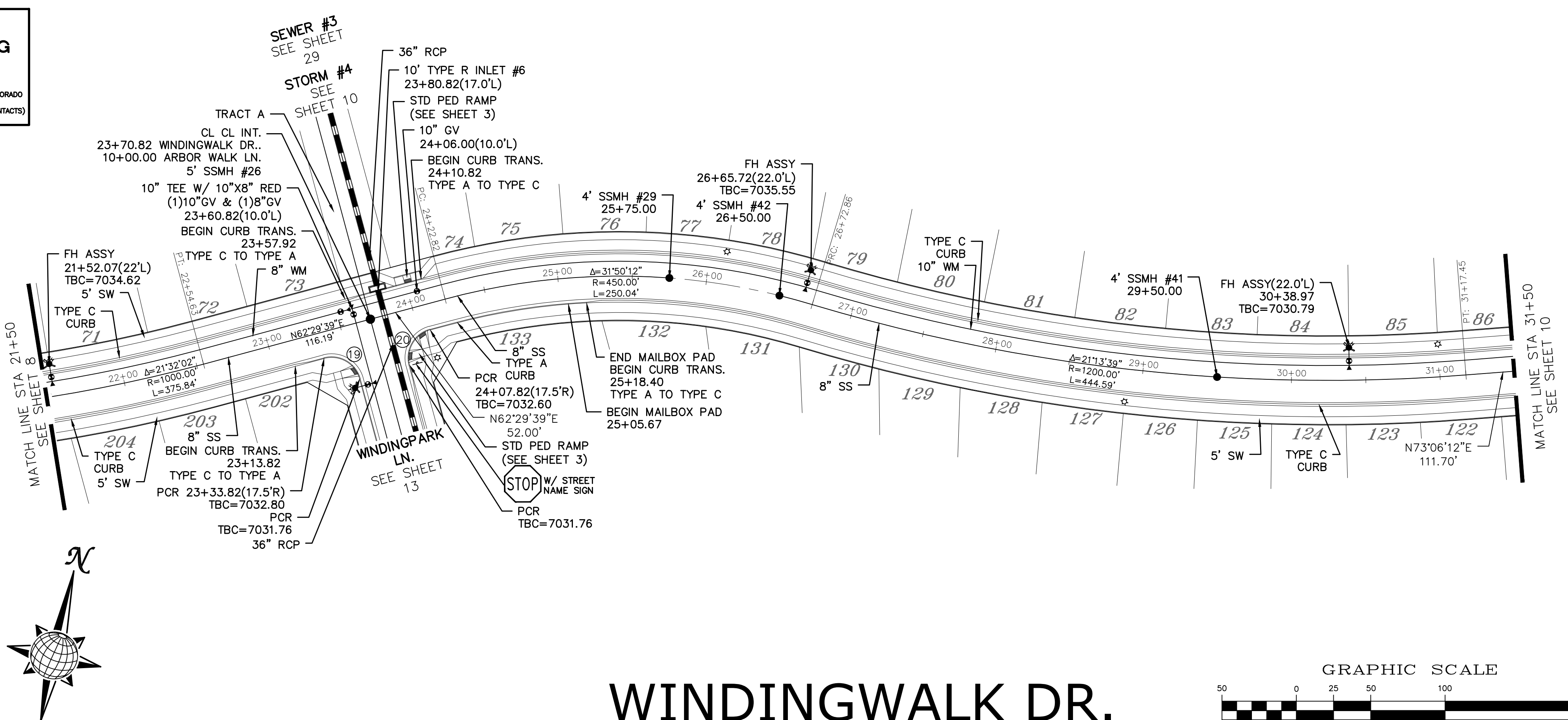
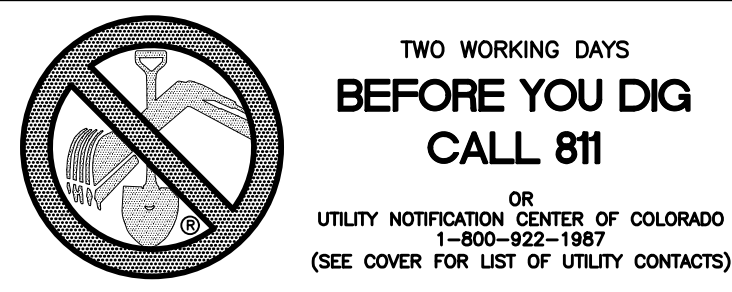
# WINDINGWALK DR.

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



				Date
				Appr.
				Date
				Revisions
			No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS WINDINGWALK DR.				
Scale	AS SHOWN	Drawn by	LCG	Checked by
				TAK
				Date
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**CURVE TABLE**

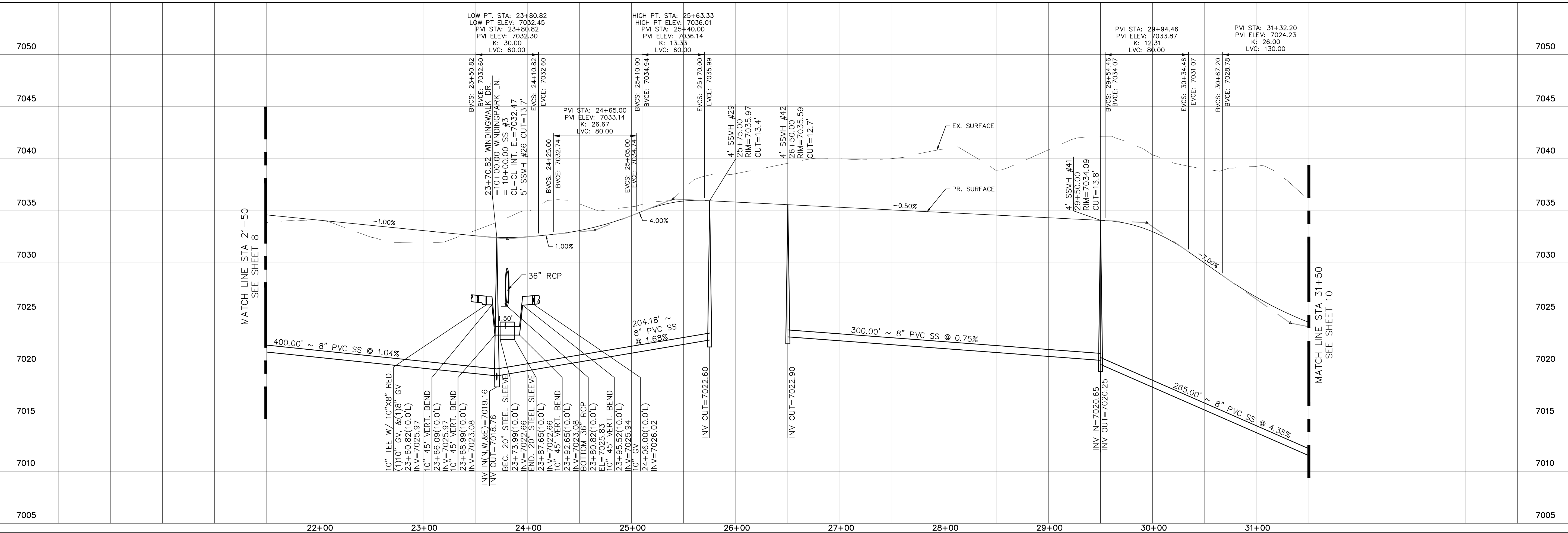
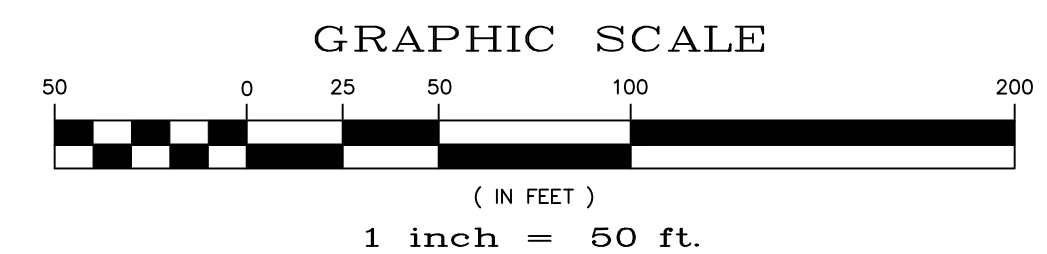
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20	30.63'	19.50'	90°00'00"

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# WINDINGWALK DR.

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



No.	Revisions	Date	Invt.	Appr.	Date


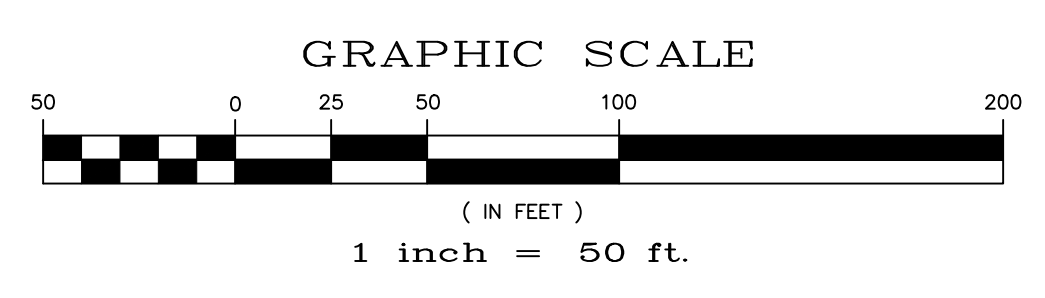
TECH CONTRACTORS	
11886 STAPLETON DRIVE	
FALCON, CO 80831	
TELEPHONE:	719.495.7444
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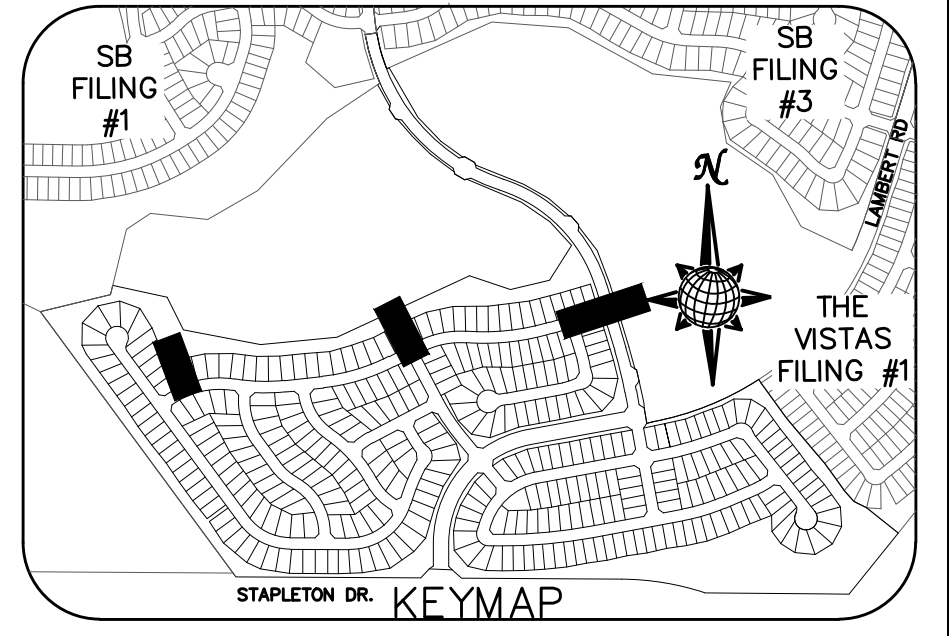
 <b>MERIDIAN RANCH</b>		
		WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS WINDINGWALK DR.
Drawn by LCA	Checked by TAK	Date JUN 2018
Scale AS SHOWN	9 of 55	9 of 55

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

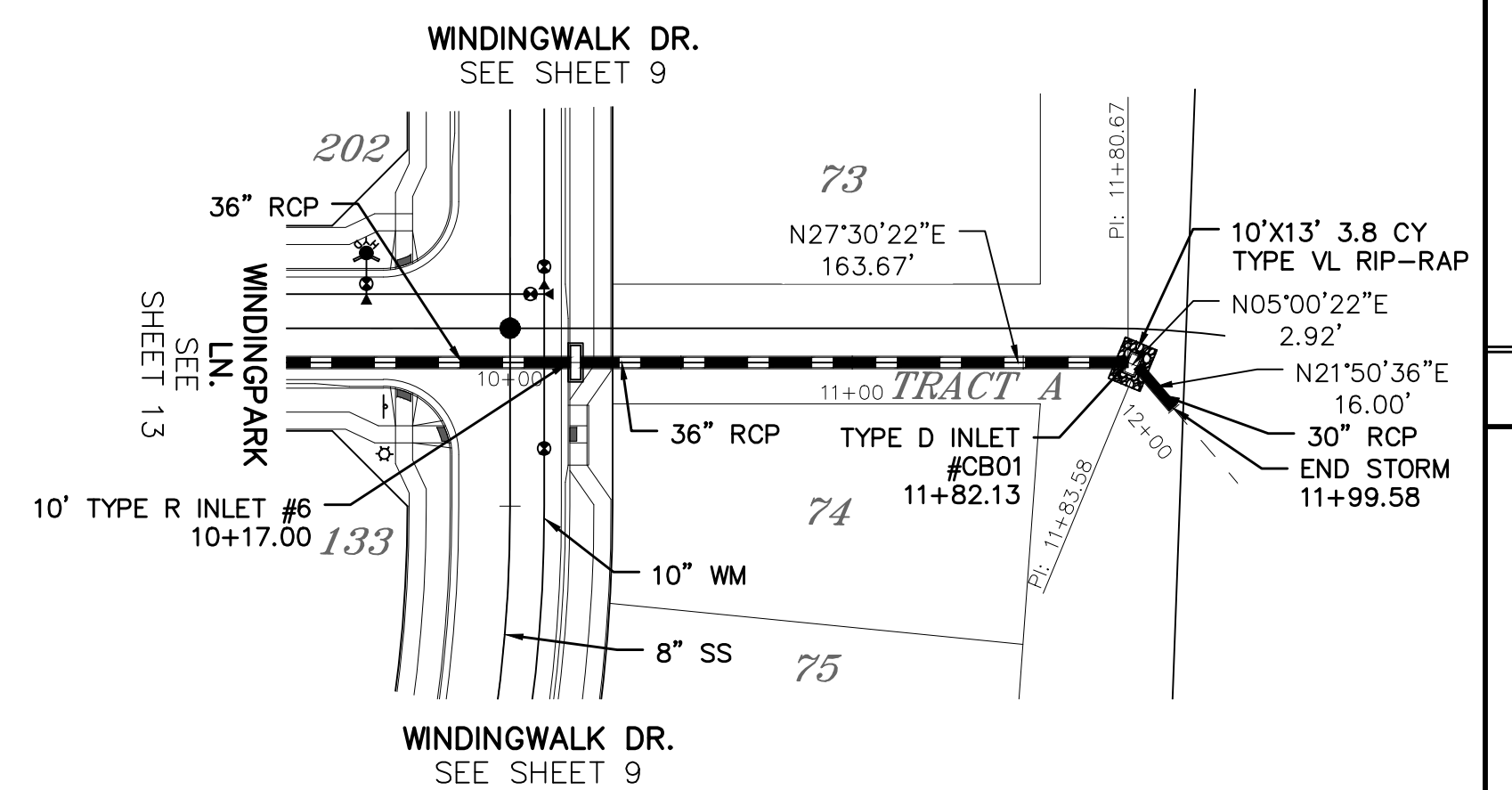
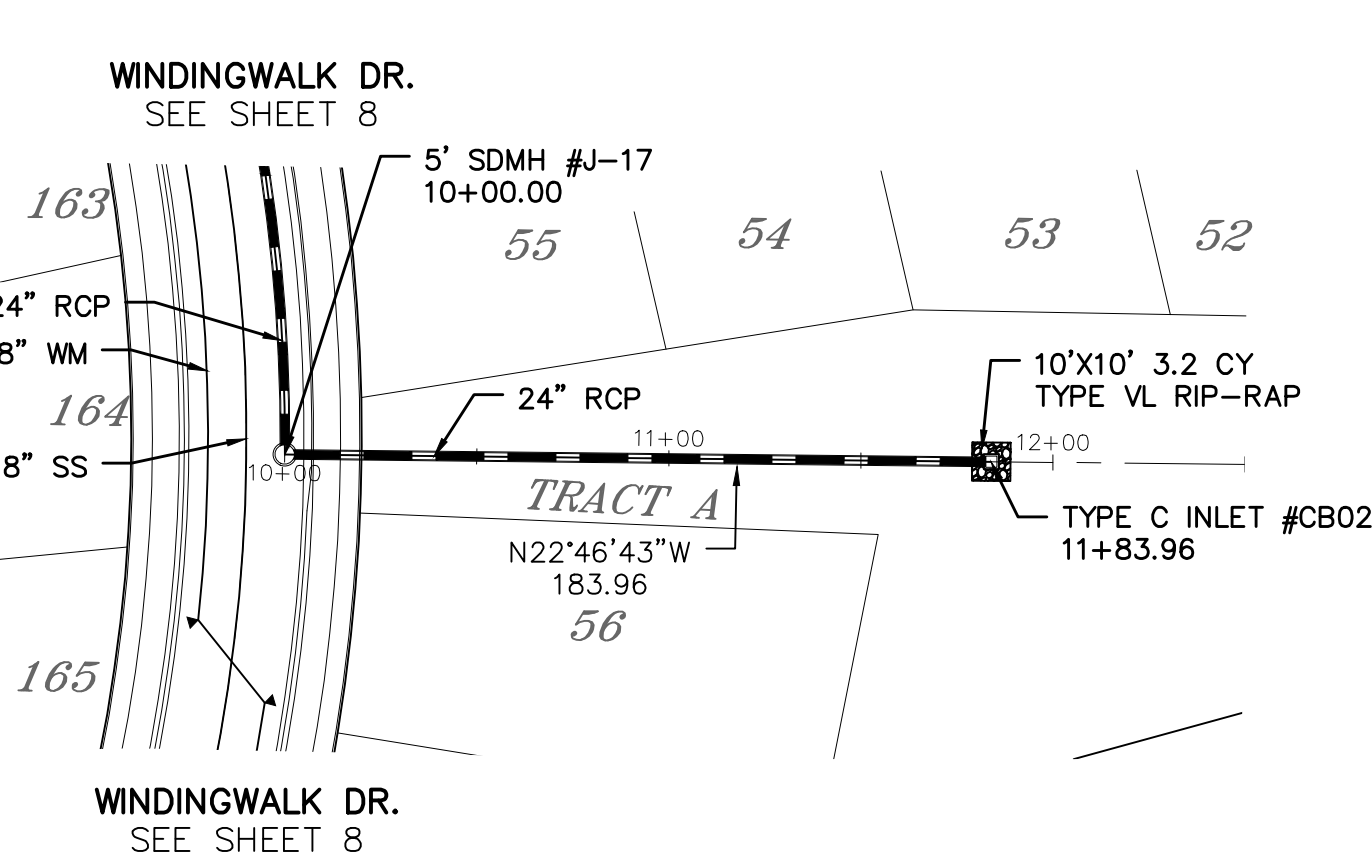
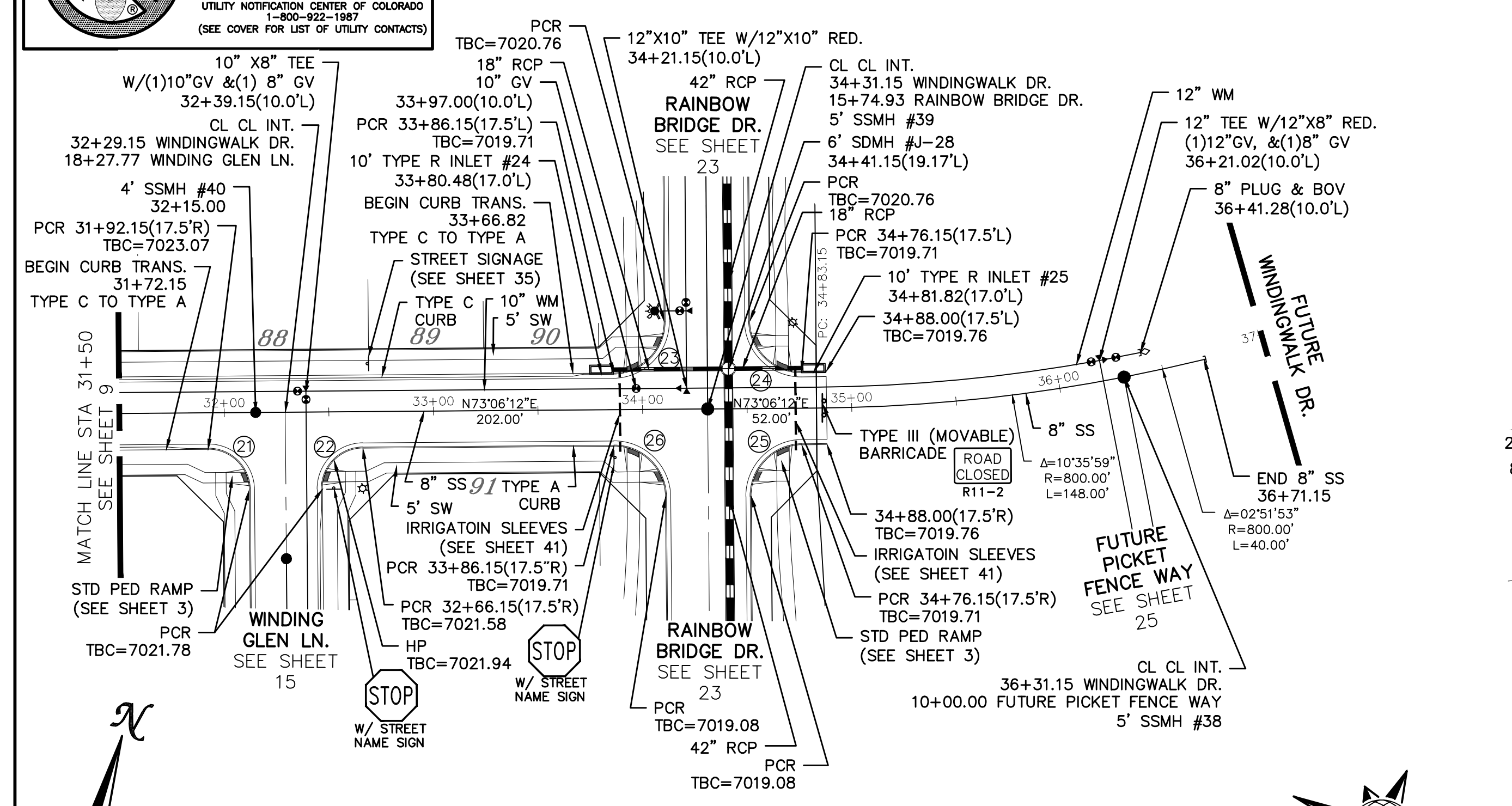
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
21	30.63'	19.50'	90°00'00"
22	30.63'	19.50'	90°00'00"
23	38.48'	24.50'	90°00'00"
24	38.48'	24.50'	90°00'00"
25	38.48'	24.50'	90°00'00"
26	38.48'	24.50'	90°00'00"



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

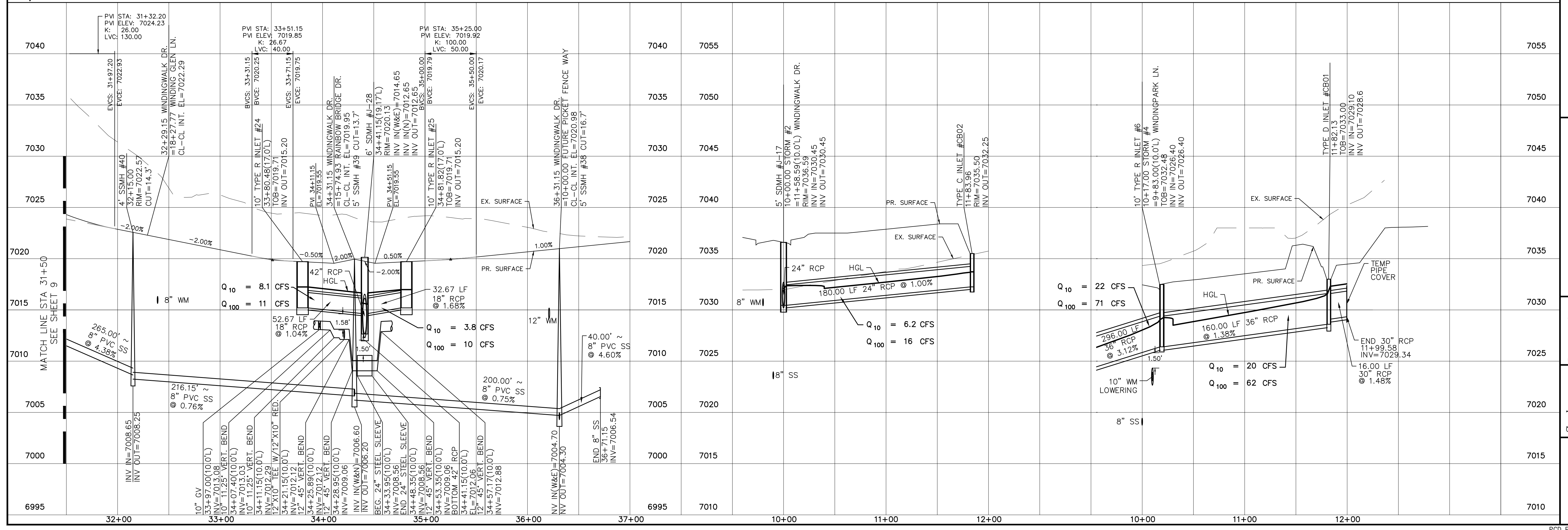


**WINDINGWALK DR.**

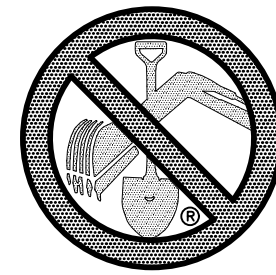
**STORM #2**

**STORM #4**

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

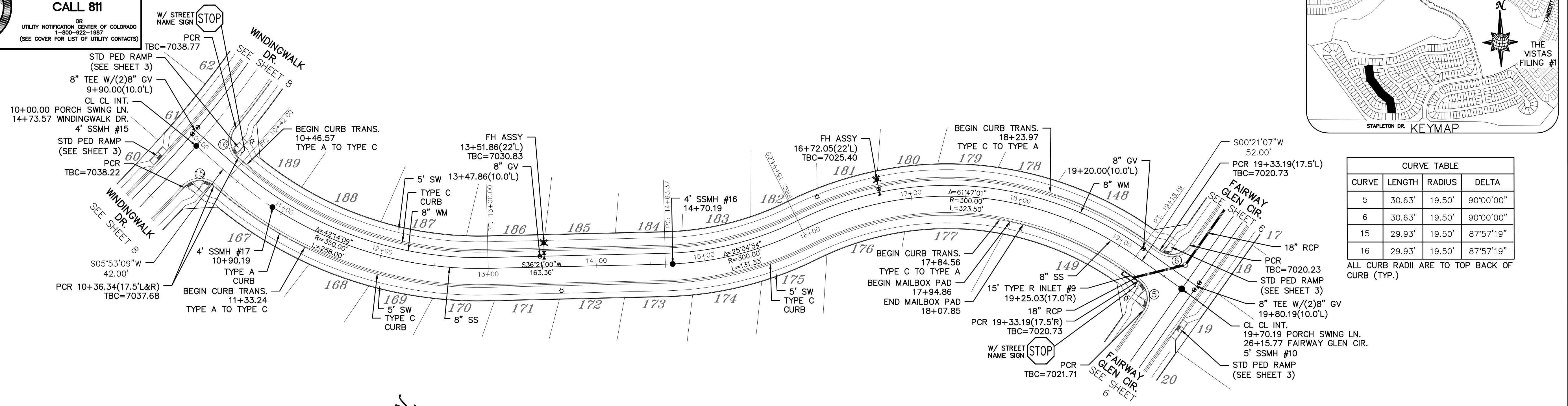


Date	
Appr.	
Date	
Rev.	
No.	
Revisions	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	
<b>MERIDIAN RANCH</b>	
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS WINDINGWALK DR. + STORM #2 + STORM#4	
Drawn by	LOG
Checked by	TAK
Date	JAN 2018
Scale	AS SHOWN
10 of	55



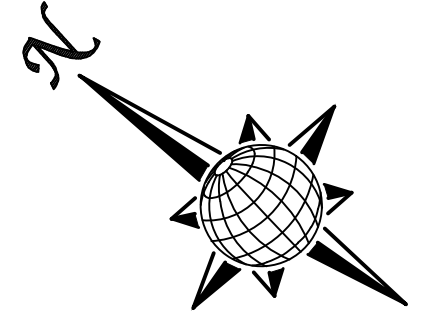
**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

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



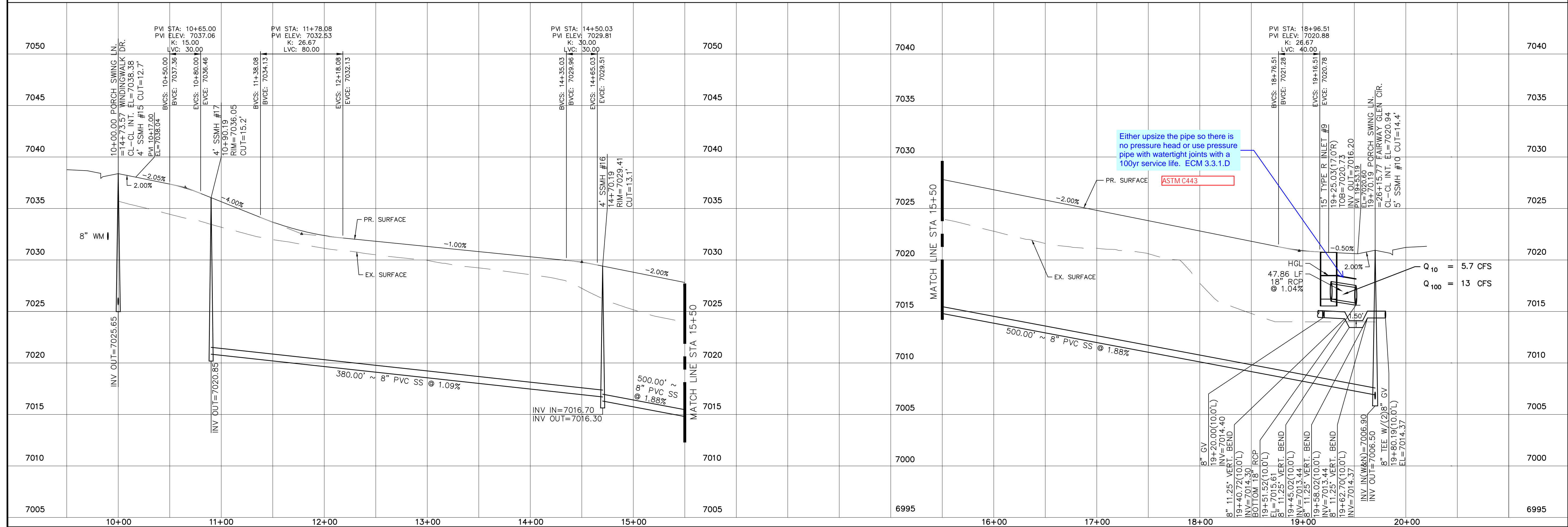
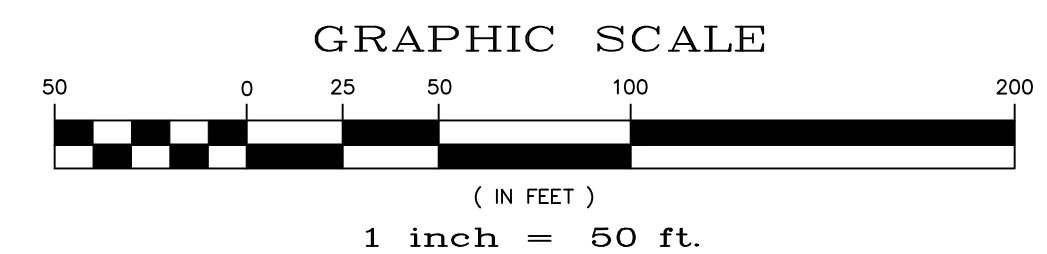
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
5	30.63'	19.50'	90°00'00"
6	30.63'	19.50'	90°00'00"
15	29.93'	19.50'	87°57'19"
16	29.93'	19.50'	87°57'19"

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



# PORCH SWING LN.

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



Date	Appr.	Date	Inrd.

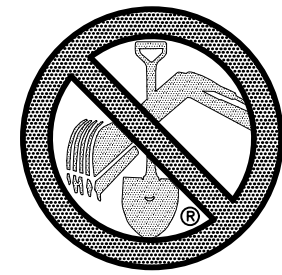
No.	Revisions

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

**MERIDIAN RANCH**  
WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
PORCH SWING LN.

Scale: AS SHOWN  
Drawn by: LCA  
Checked by: TAK  
Date: JAN 2018  
11 of 55

PCD PROJECT NO. XX-XX-XXX

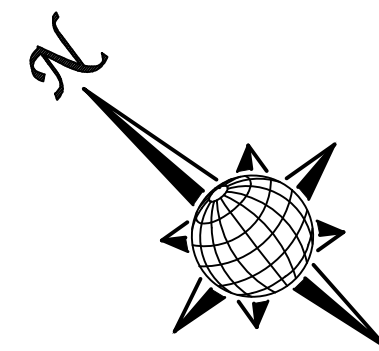
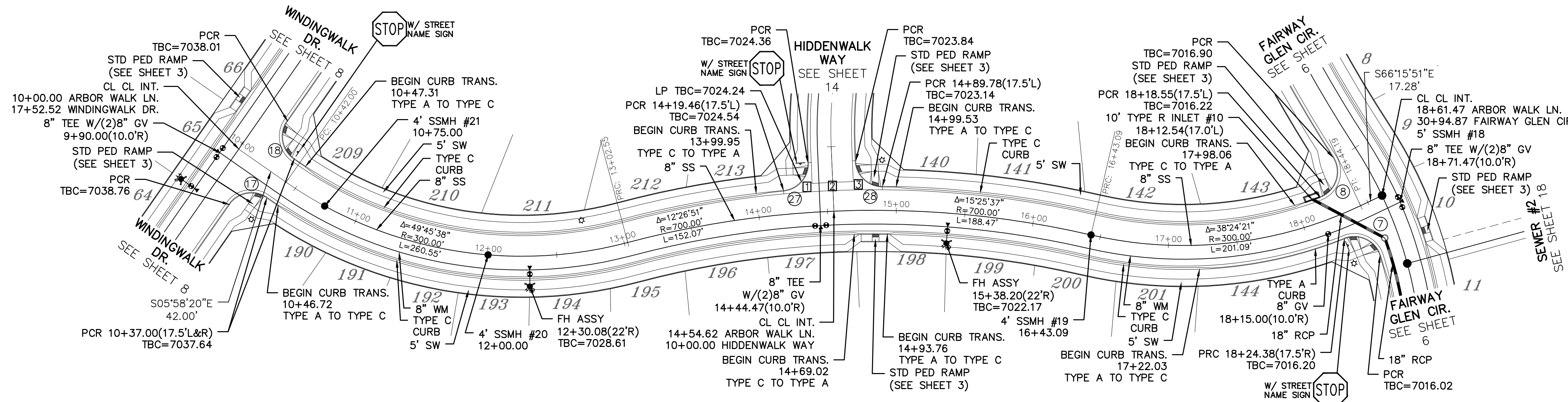
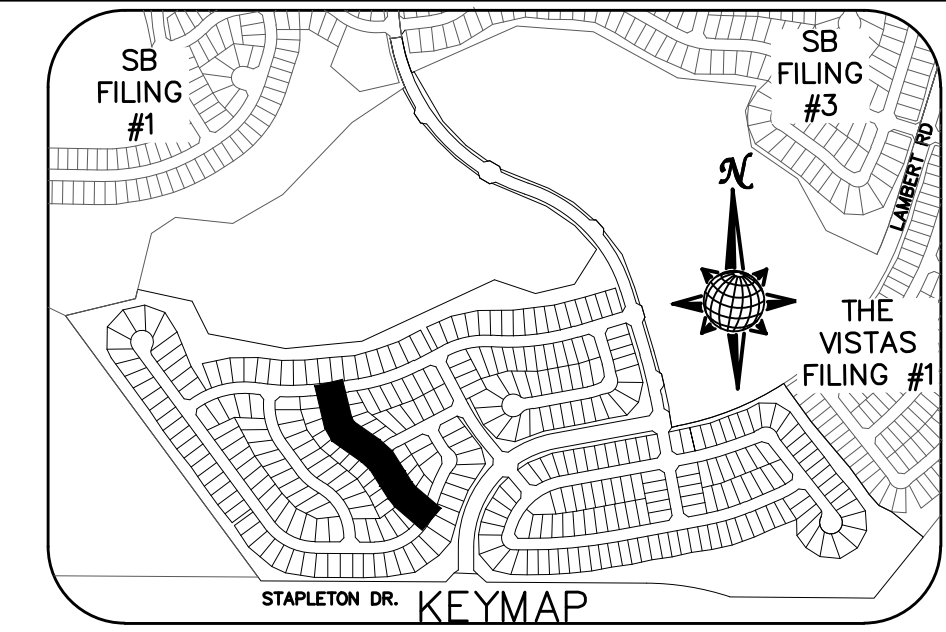


TWO WORKING DAYS  
**BEFORE YOU DIG  
CALL 811**

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

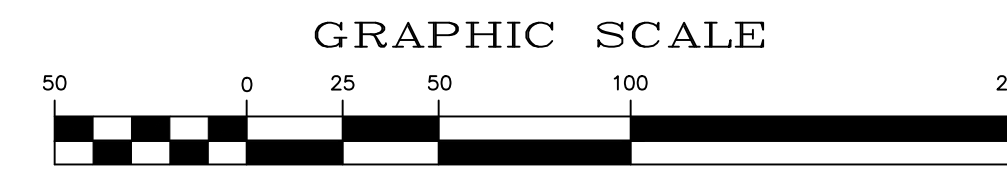
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

- = 7023.67
- = 7023.34
- = 7023.00



# ARBOR WALK LN.

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



1 inch = 50 ft.

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
7	32.04'	19.50'	94°08'36"
8	34.84'	19.50'	102°22'10"
17	30.63'	19.50'	90°00'00"
18	30.63'	19.50'	90°00'00"
27	29.65'	19.50'	87°07'20"
28	29.65'	19.50'	87°07'20"

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

No.	Revisions	Date	Instr.	Appr.	Date

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

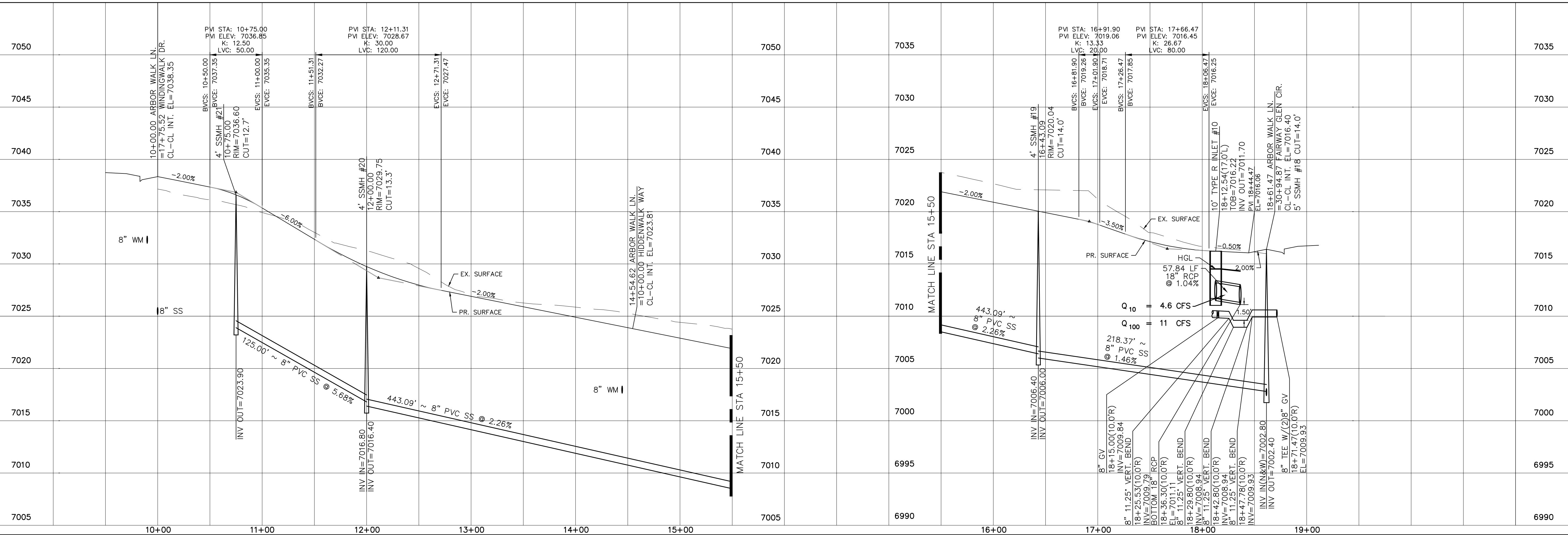


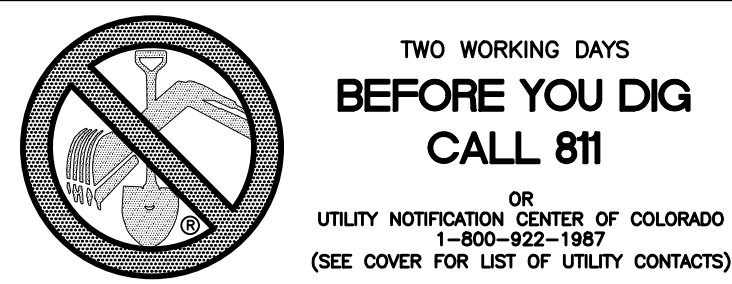
WINDINGWALK FL AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
ARBOR WALK LN.

Drawn by  
Checked by  
Date

Scale  
AS SHOWN  
12 of 55

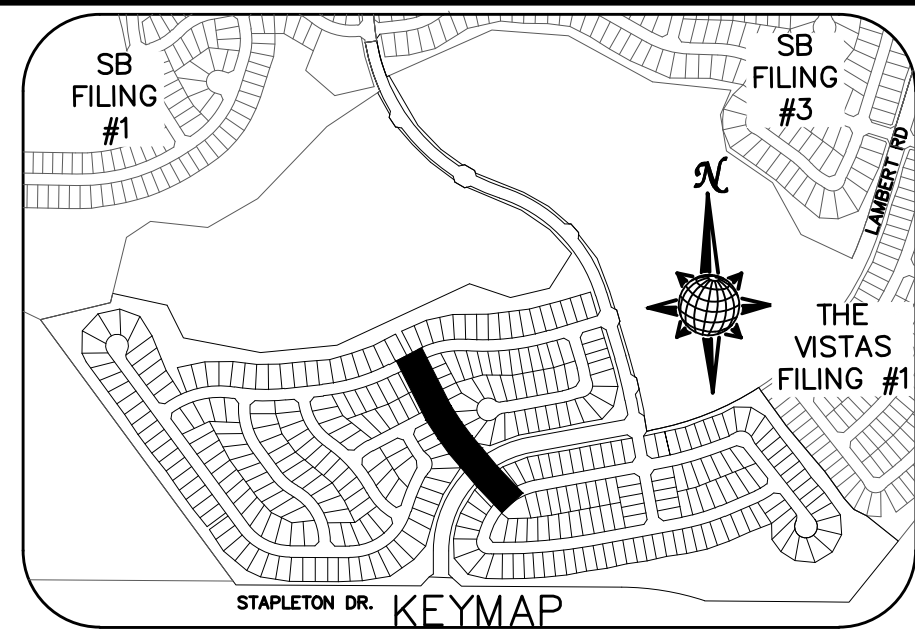
JAN 2018





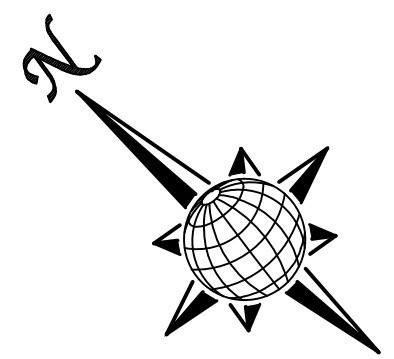
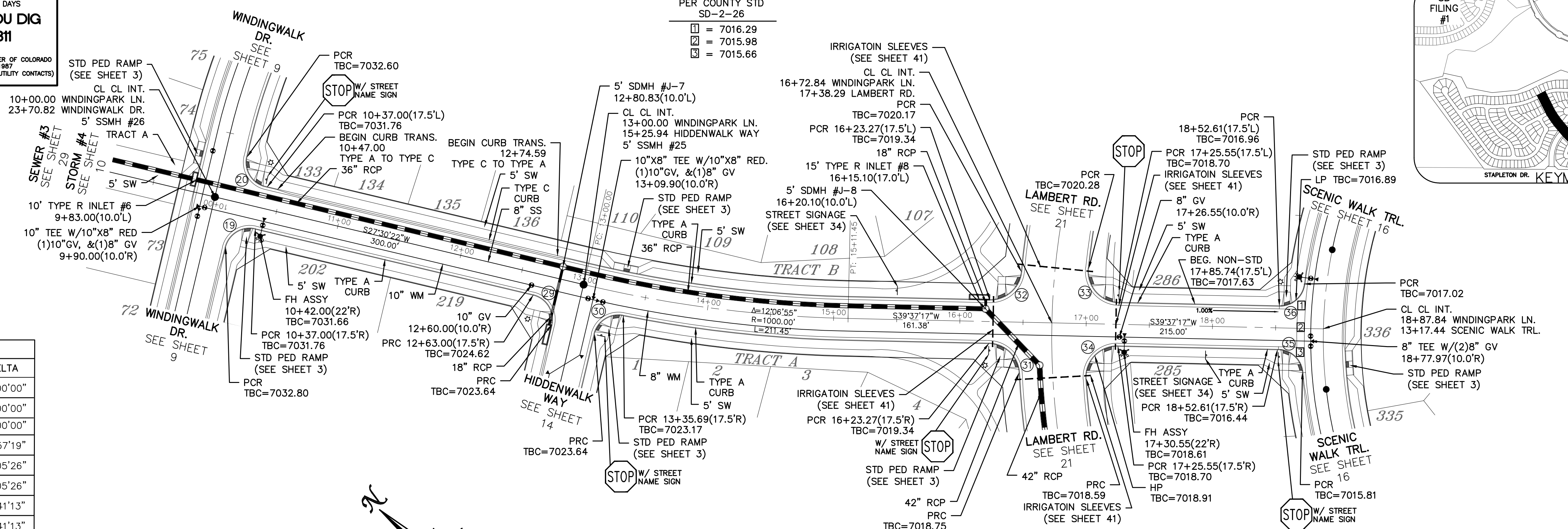
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

- 1 = 7016.29
- 2 = 7015.98
- 3 = 7015.66



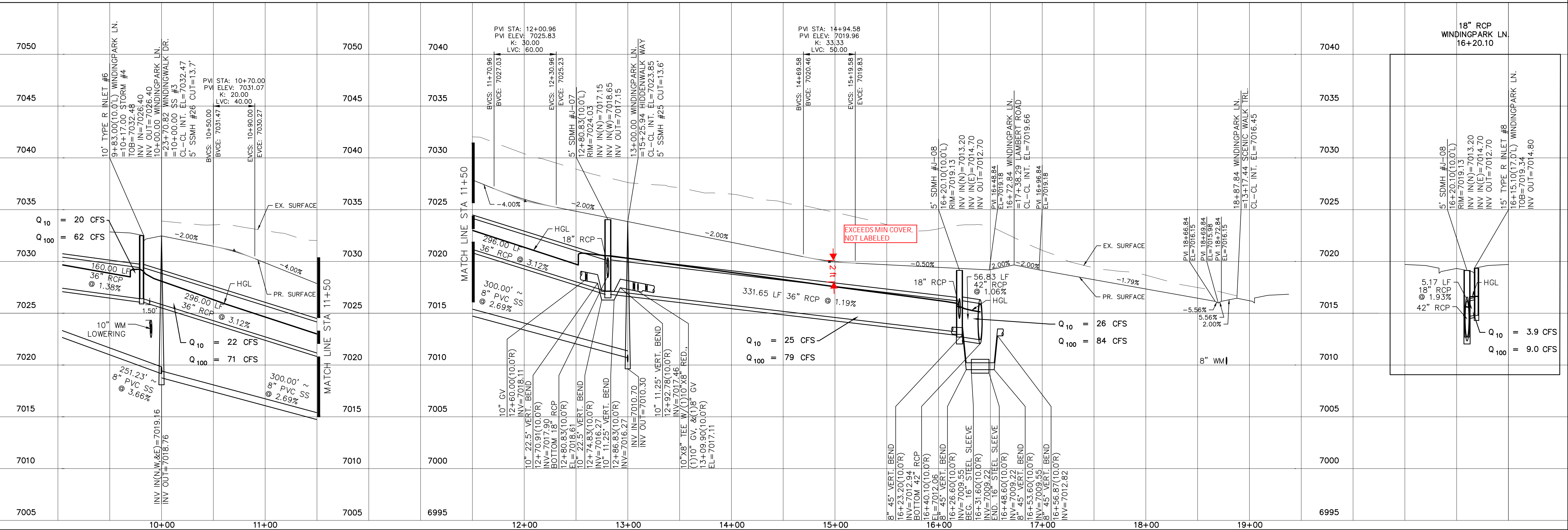
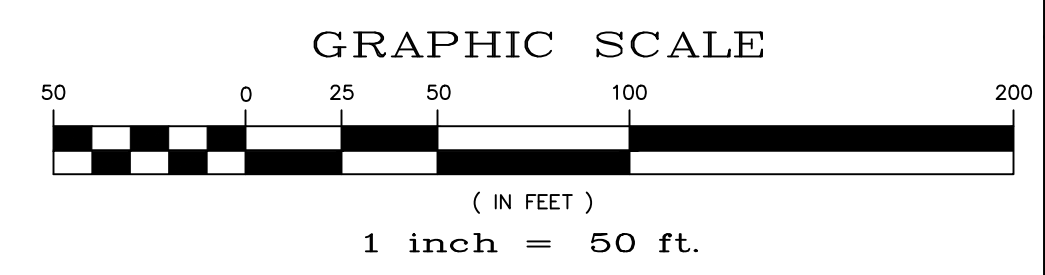
CURVE	LENGTH	RADIUS	DELTA
19	30.63'	19.50'	90°00'00"
20	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	29.93'	19.50'	87°57'19"
31	36.81'	24.50'	86°05'26"
32	36.81'	24.50'	86°05'26"
33	40.49'	24.50'	94°41'13"
34	40.49'	24.50'	94°41'13"
35	28.76'	19.50'	84°30'49"
36	28.76'	19.50'	84°30'49"

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



# WINDINGPARK LN.

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



No.	Revisions	Date	Appr.	Date

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



WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
WINDINGPARK LN.

Drawn by  
LGA

Checked by  
TKR

Date  
JAN 2018

Scale  
AS SHOWN

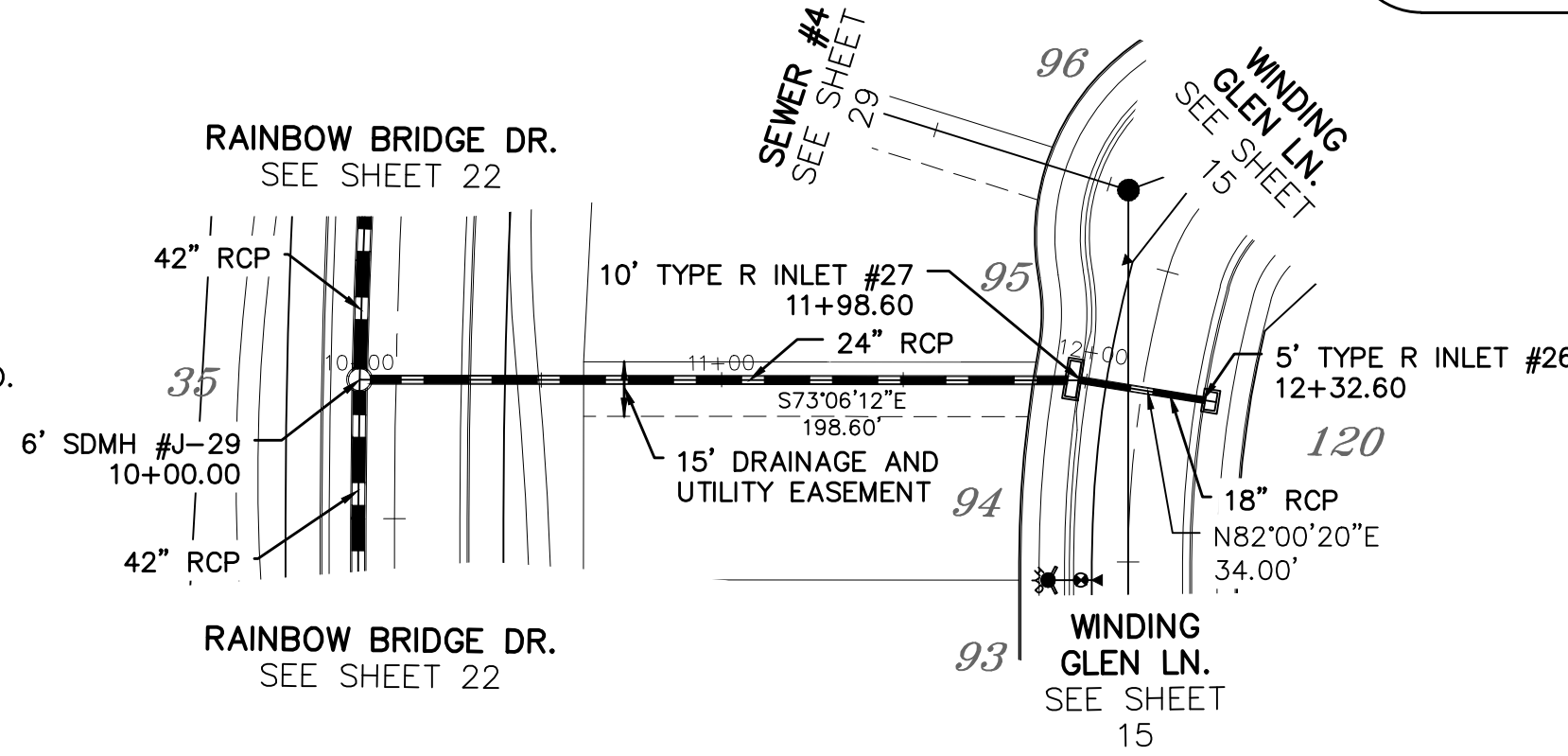
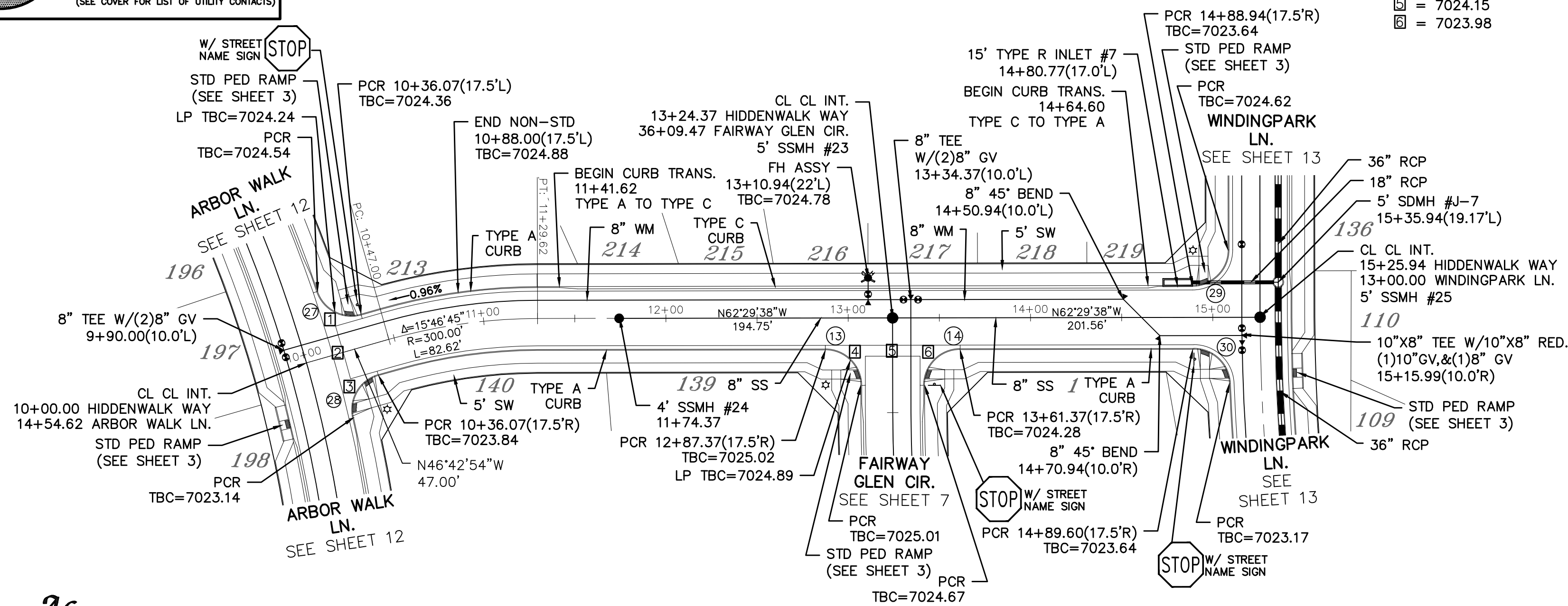
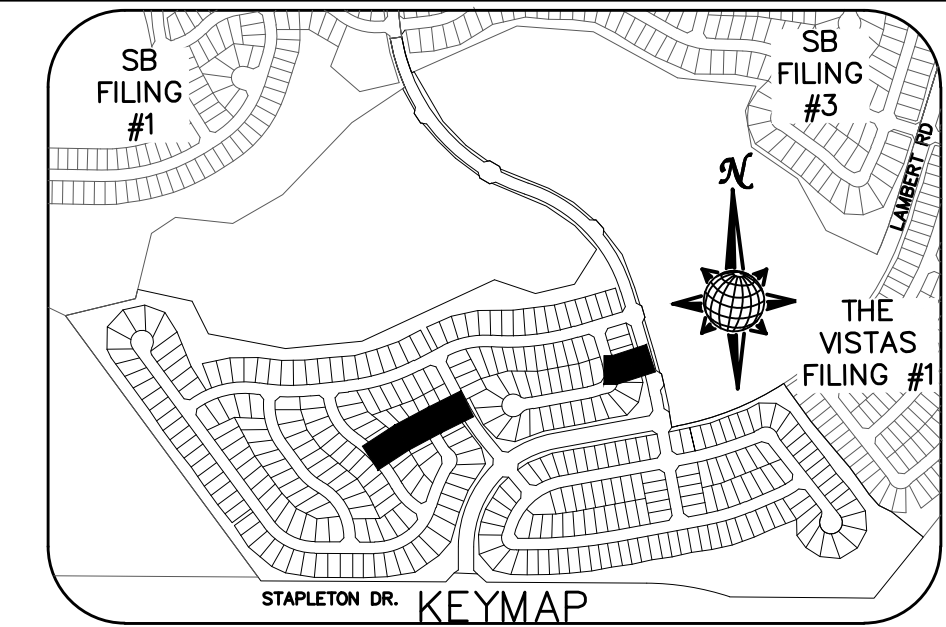
13 of 55

PCD PROJECT NO. XX-XX-XXX

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

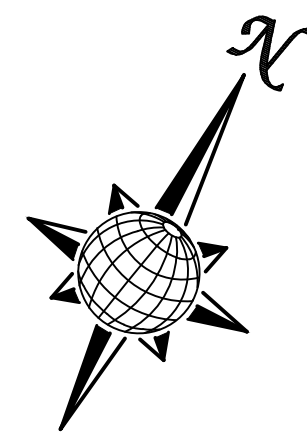
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

- INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26
- 1 = 7023.67
  - 2 = 7023.34
  - 3 = 7023.00
  - 4 = 7024.32
  - 5 = 7024.15
  - 6 = 7023.98



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"
27	29.65'	19.50'	87°07'20"
28	29.65'	19.50'	87°07'20"
29	30.63'	19.50'	90°00'00"
30	29.93'	19.50'	87°57'19"

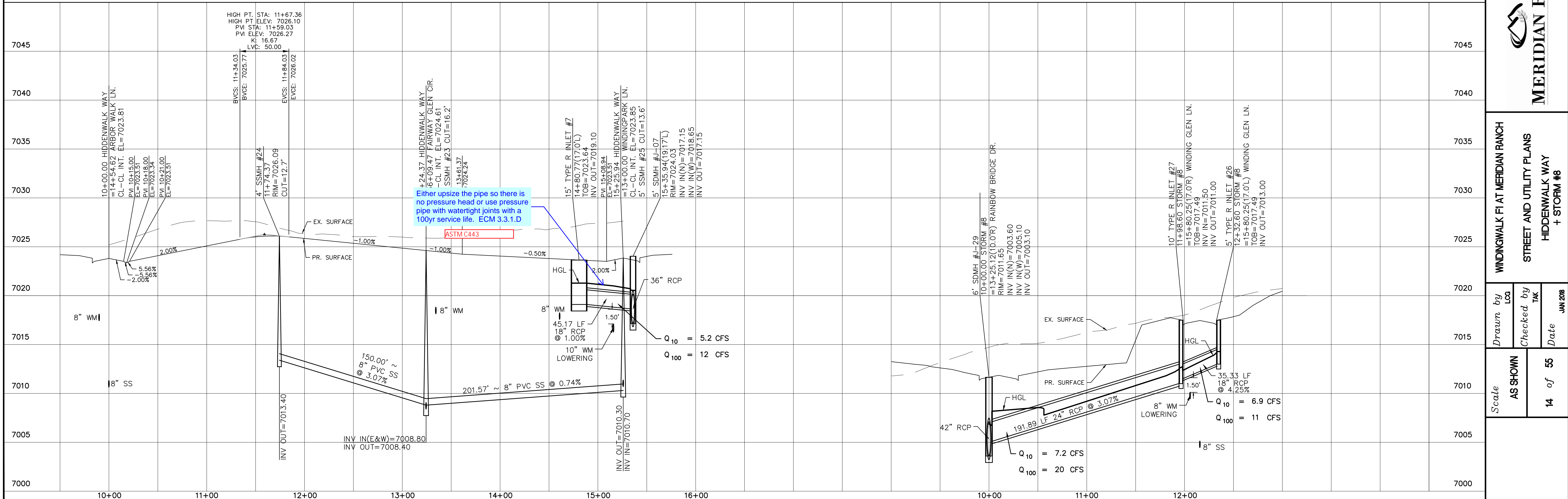
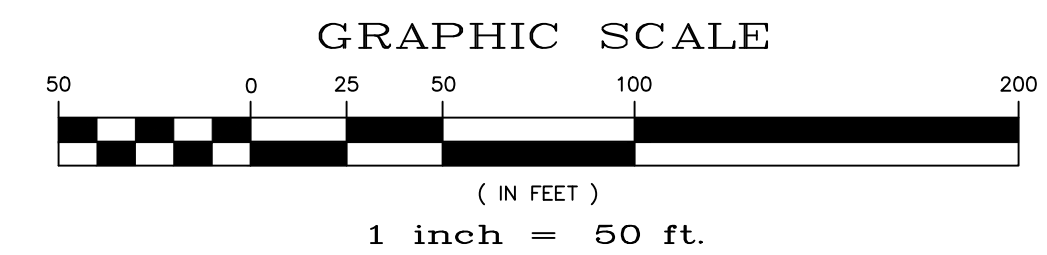
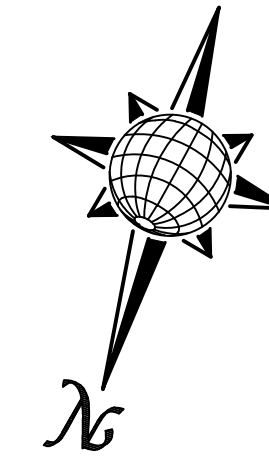
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



# HIDDENWALK WAY

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

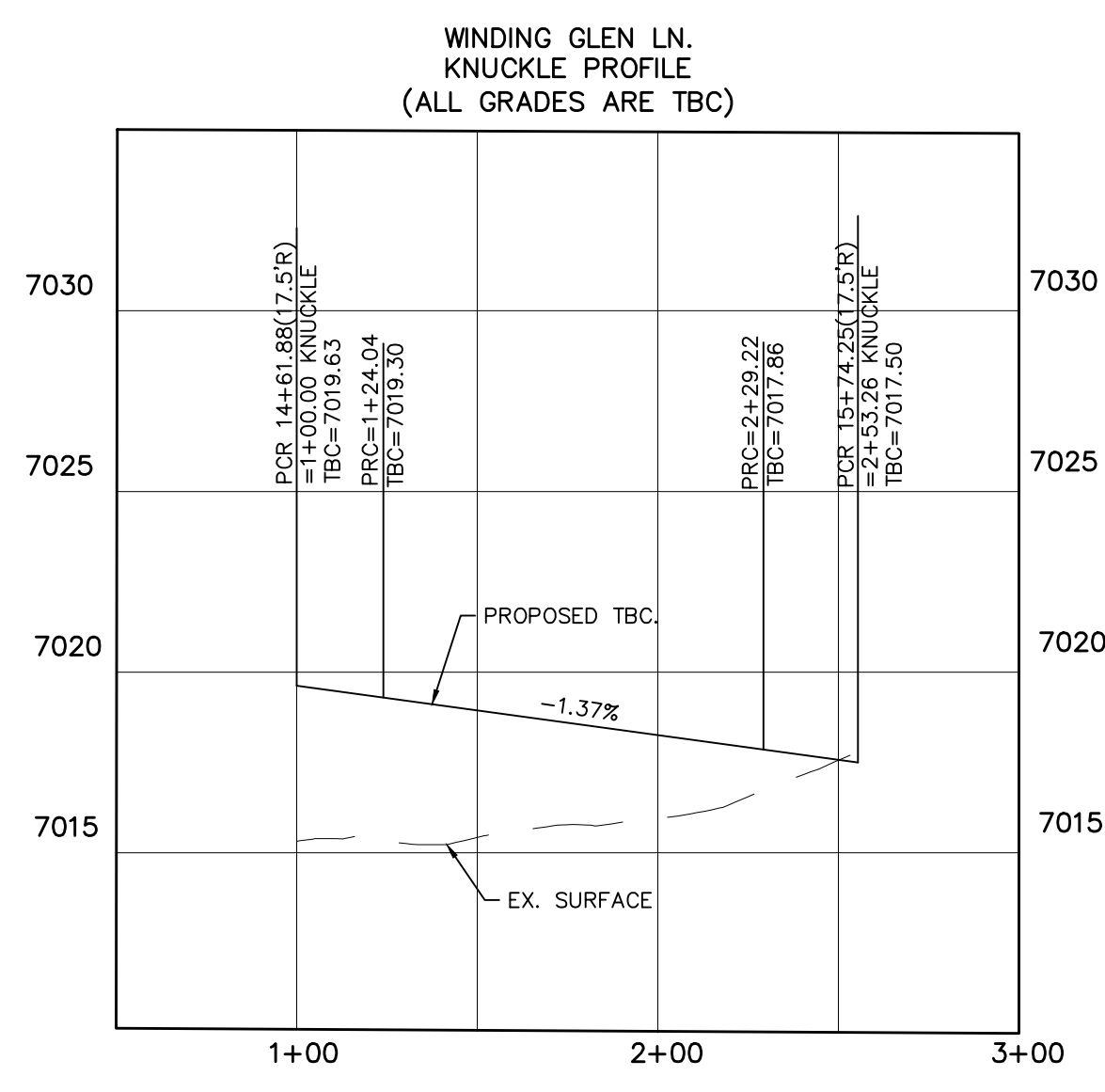
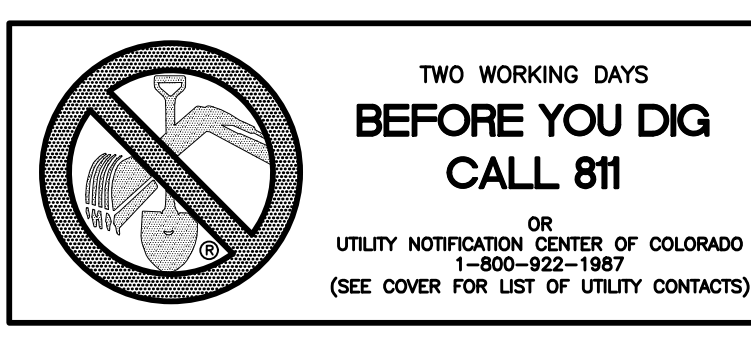
# STORM #8



Either upsized the pipe so there is no pressure head or use pressure pipe with watertight joints with a 100yr service life. ECM 3.3.1.D

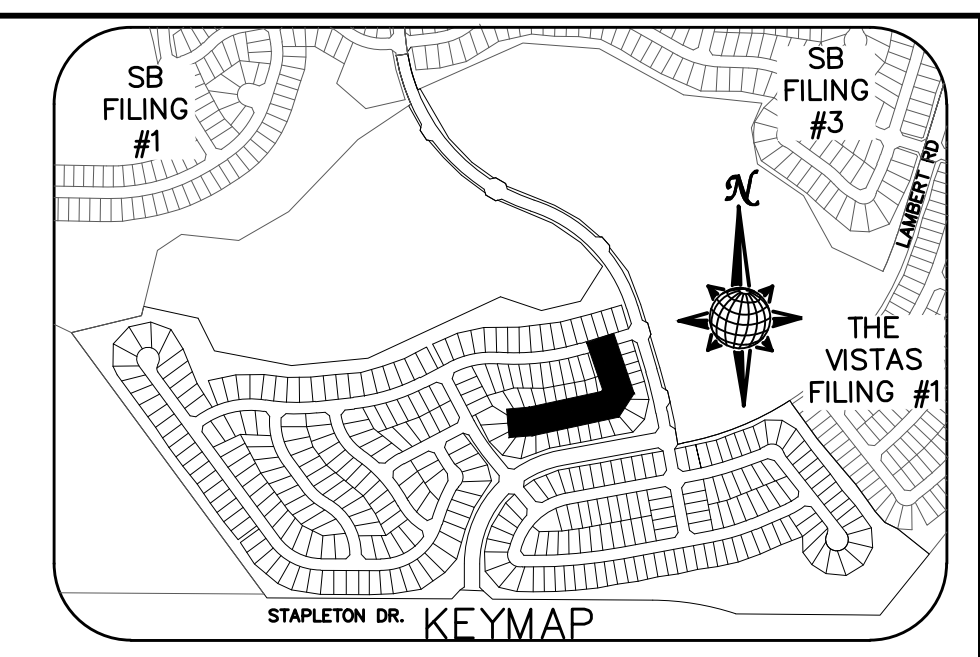
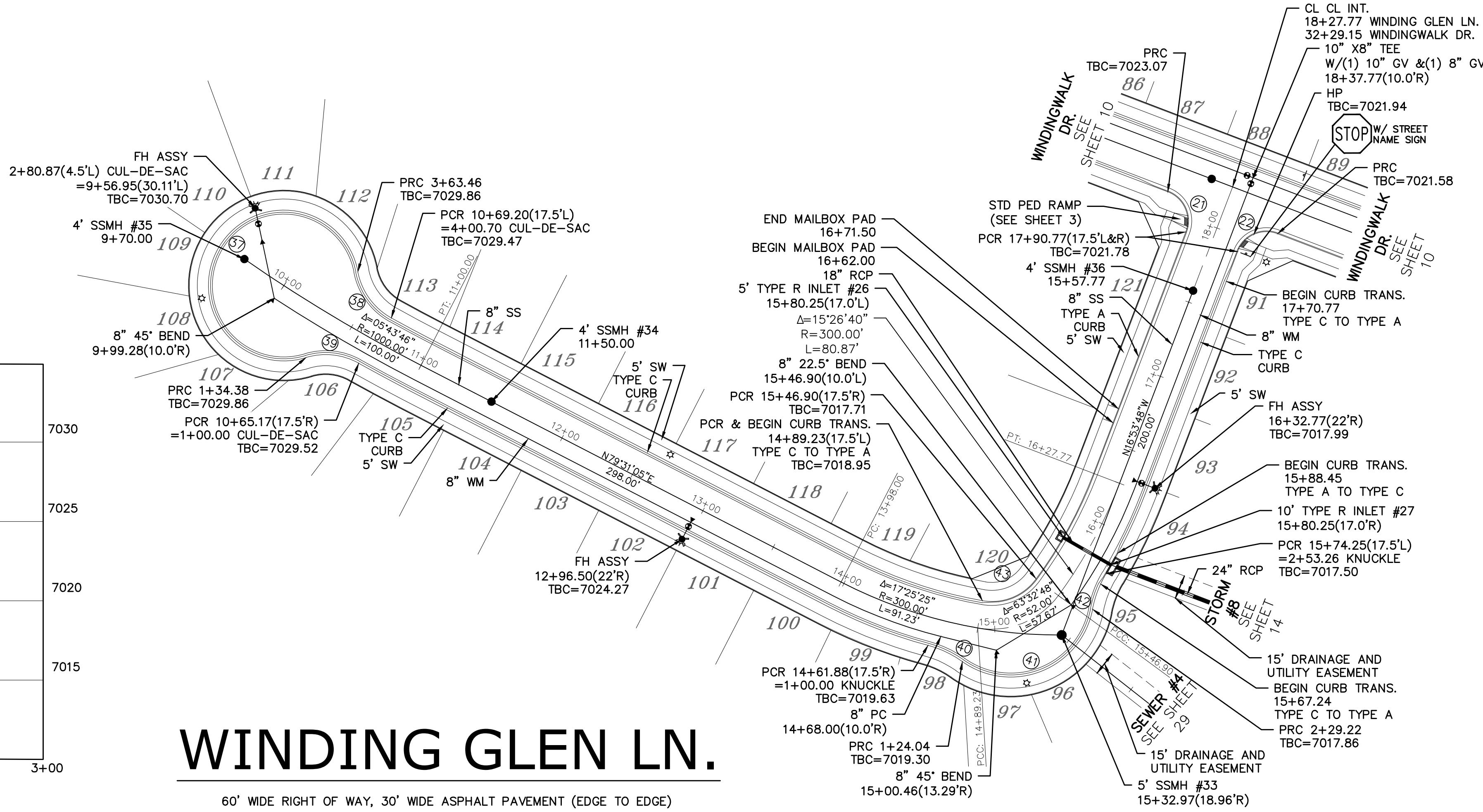
ASTM C443

Date	
Appr.	
Invt.	
Date	
Revisions	
No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	
<b>MERIDIAN RANCH</b>	
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS HIDDENWALK WAY + STORM #8	
Drawn by	LOG
Checked by	TAK
Date	JUN 2018
Scale	AS SHOWN
	14 of 55



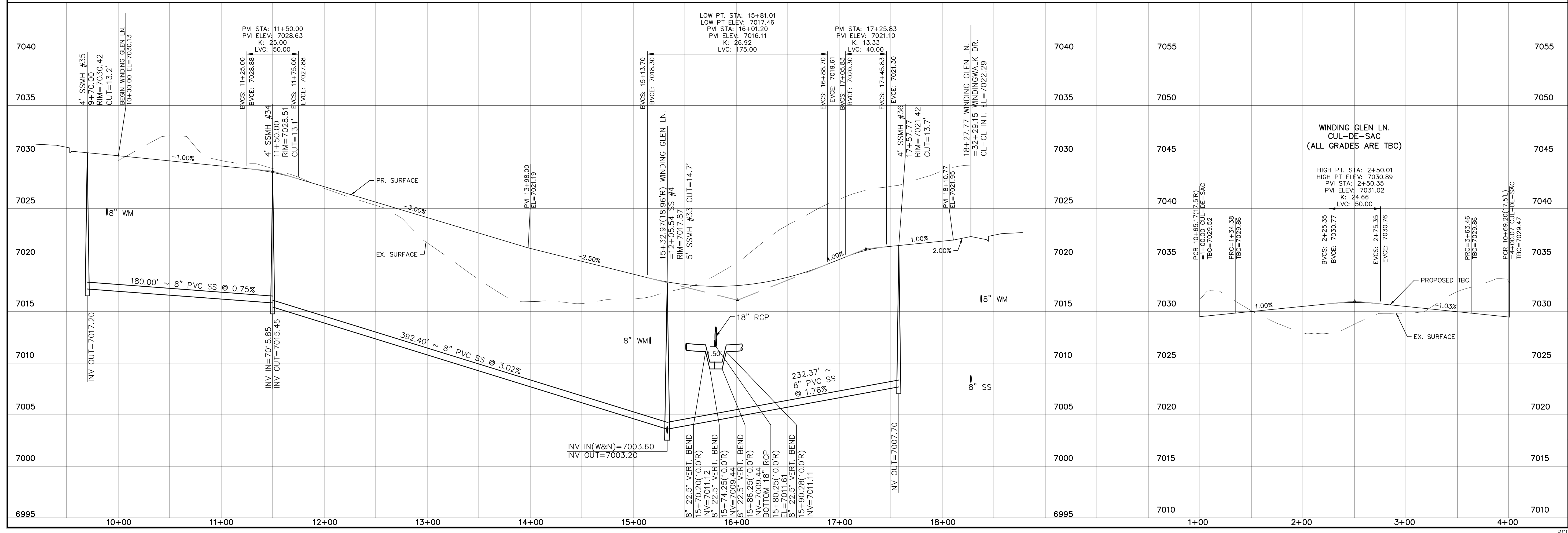
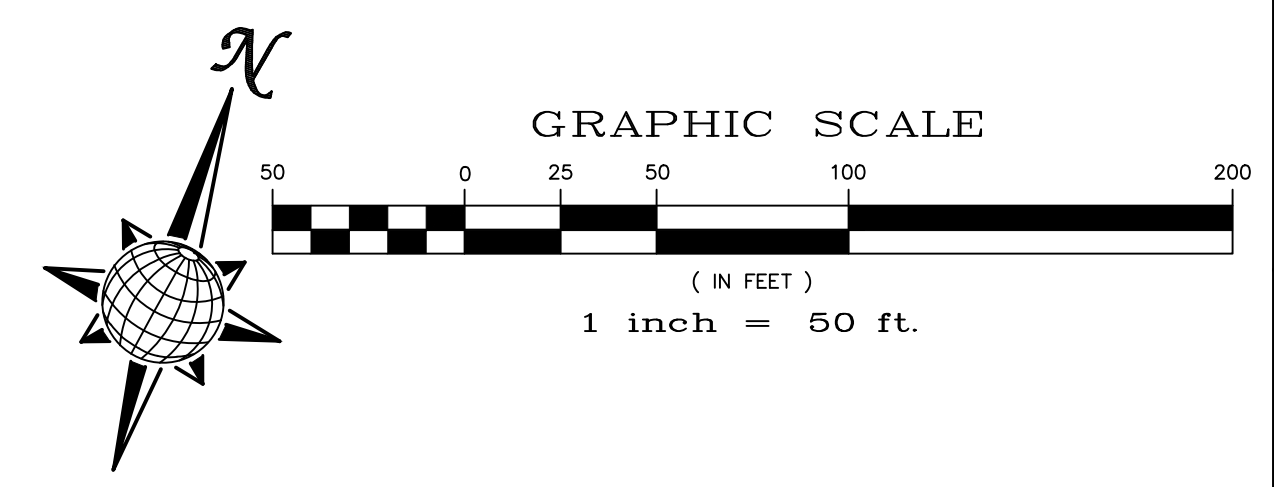
# WINDING GLEN LN.

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



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
21	30.63'	19.50'	90°00'00"
22	30.63'	19.50'	90°00'00"
37	229.08'	47.50'	276°19'18"
38	37.24'	42.50'	50°12'10"
39	34.38'	42.50'	46°21'00"
40	24.04'	67.50'	20°24'08"
41	105.19'	52.50'	114°47'50"
42	24.04'	67.50'	20°24'08"
43	38.26'	34.50'	63°32'48"

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

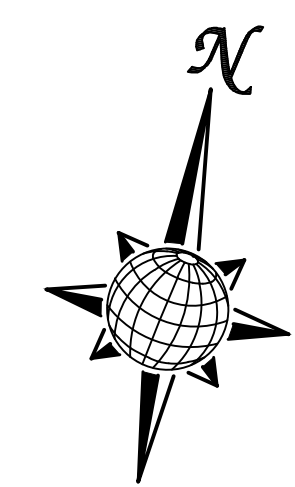
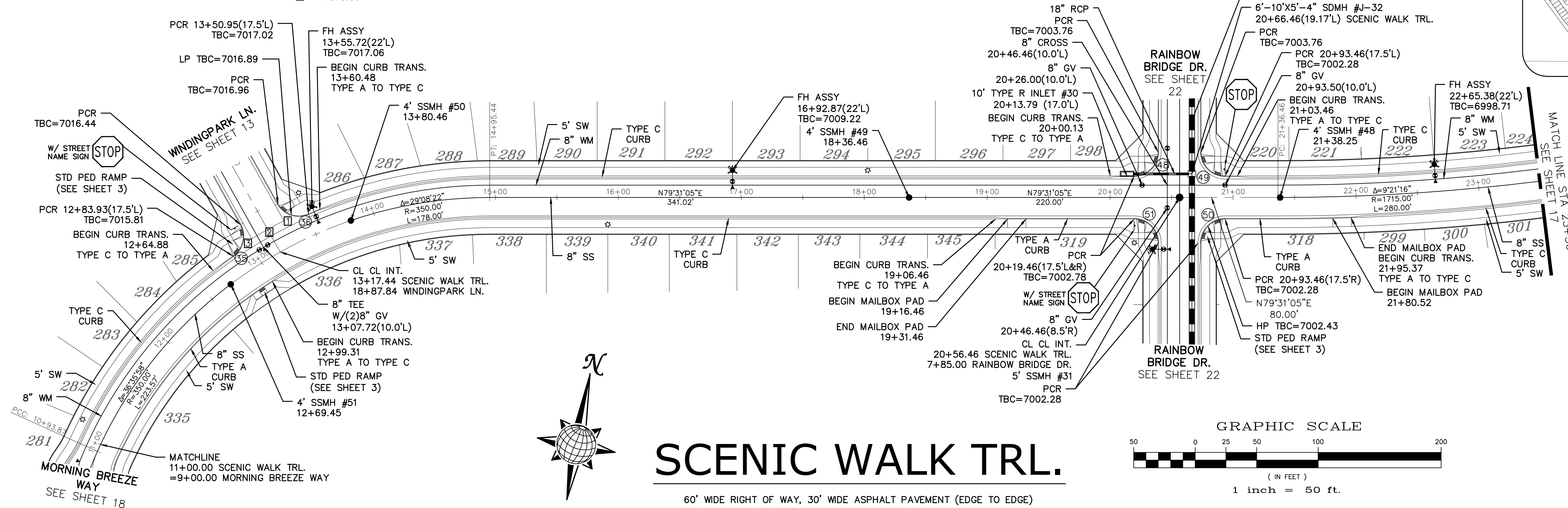
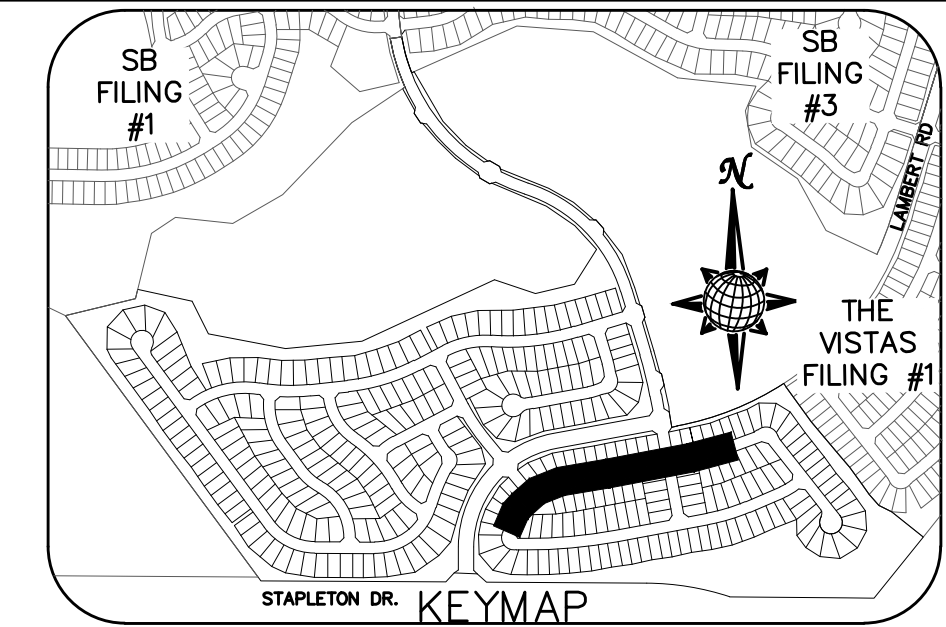


TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		Revisions	Date	Appr.	Date
 <b>MERIDIAN RANCH</b> WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS WINDING GLEN LN.		No.			
		Scale	AS SHOWN	15 of	55
		Drawn by	LCG	Checked by	TAK



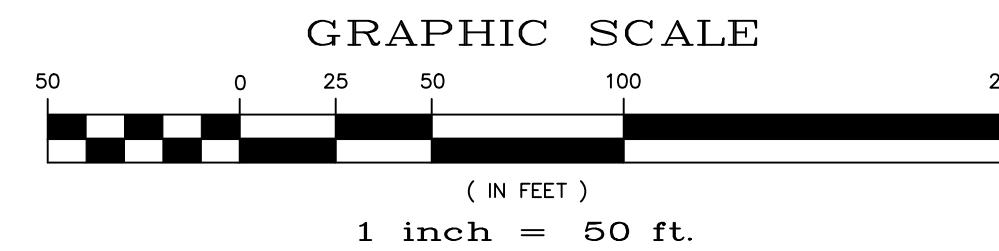
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

1 = 7016.29  
2 = 7015.98  
3 = 7015.66



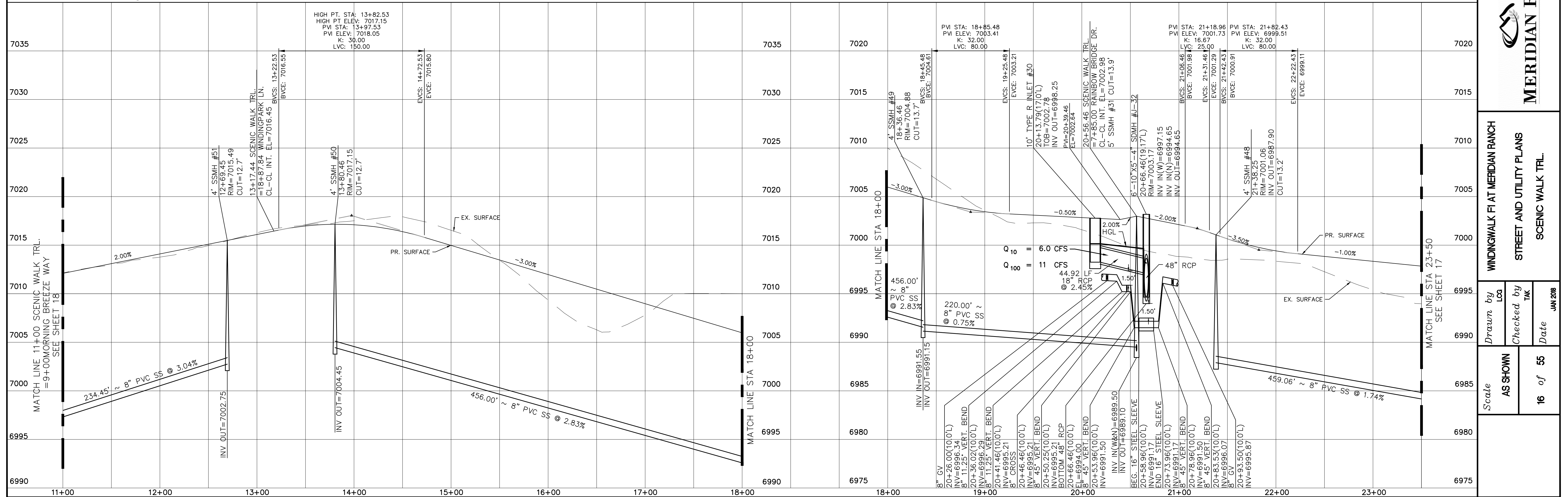
# SCENIC WALK TRL.

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



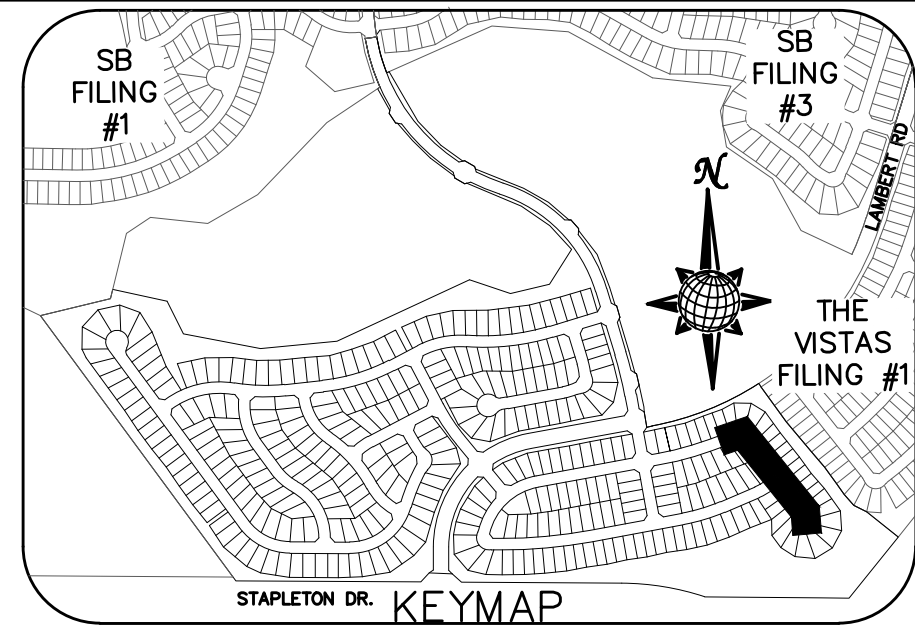
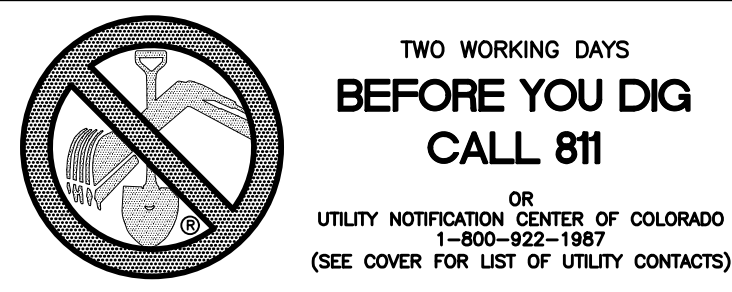
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
35	28.76'	19.50'	84°30'49"
36	28.76'	19.50'	84°30'49"
48	30.63'	19.50'	90°00'00"
49	30.63'	19.50'	90°00'00"
50	30.63'	19.50'	90°00'00"
51	30.63'	19.50'	90°00'00"

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

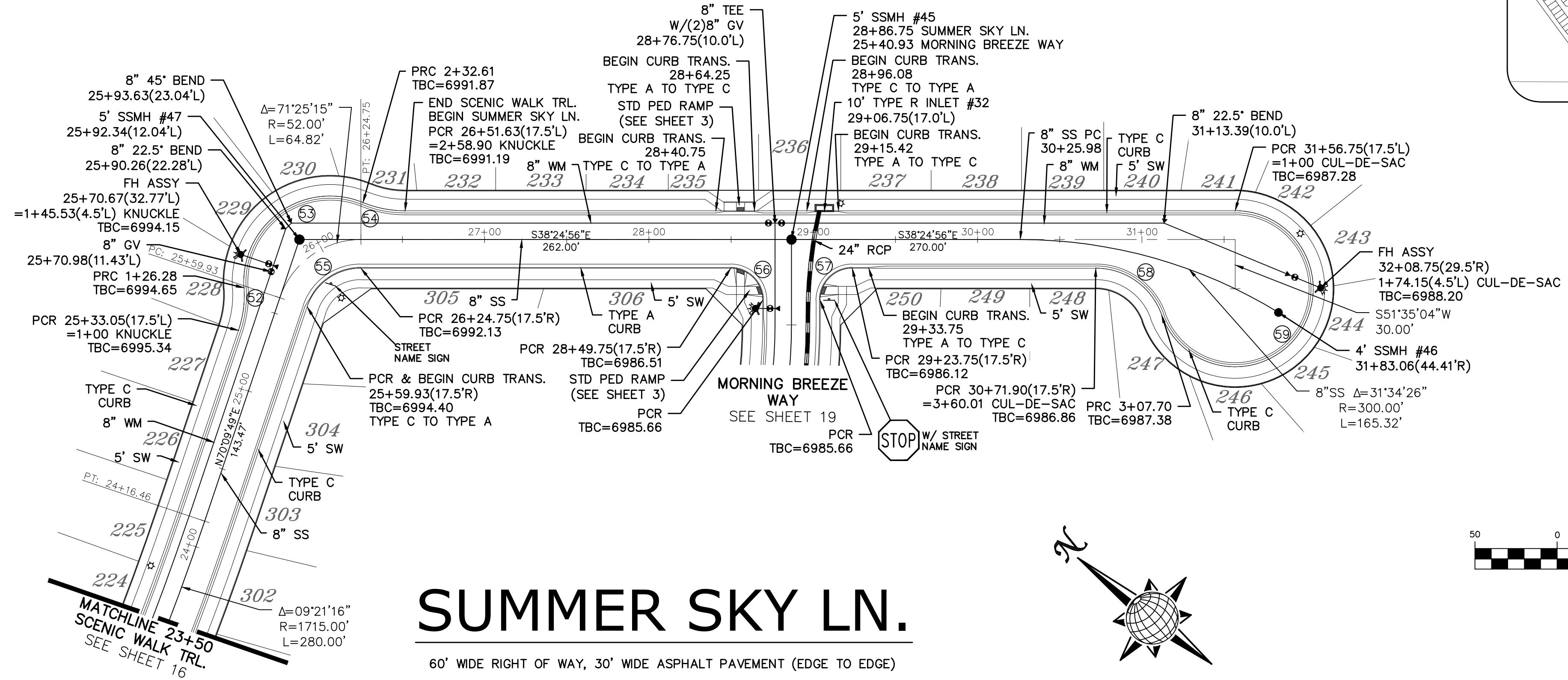
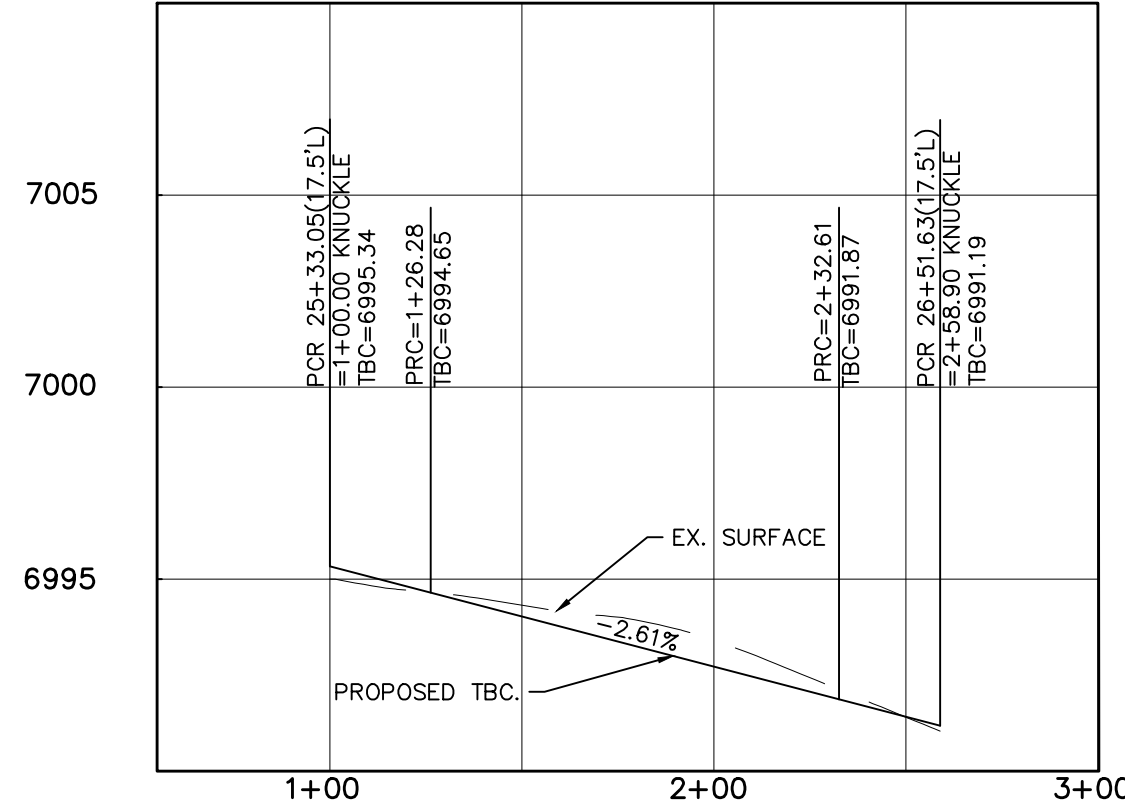


TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	Revisions	No.	Date	Appr.	Date
 <b>MERIDIAN RANCH</b>	WINDINGWALK FLAT MERIDIAN RANCH		STREET AND UTILITY PLANS		
	SCENIC WALK TRL.				
Scale AS SHOWN	Drawn by LCA	Checked by TAK	Date JUN 2018	16 of 55	



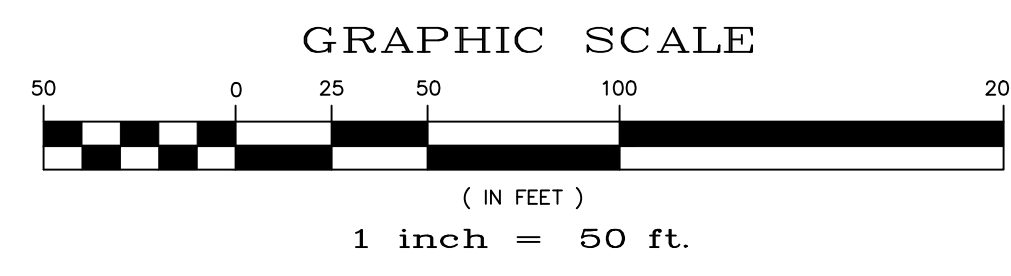


SCENIC WALK TRL. KNUCKLE PROFILE (ALL GRADES ARE TBC)



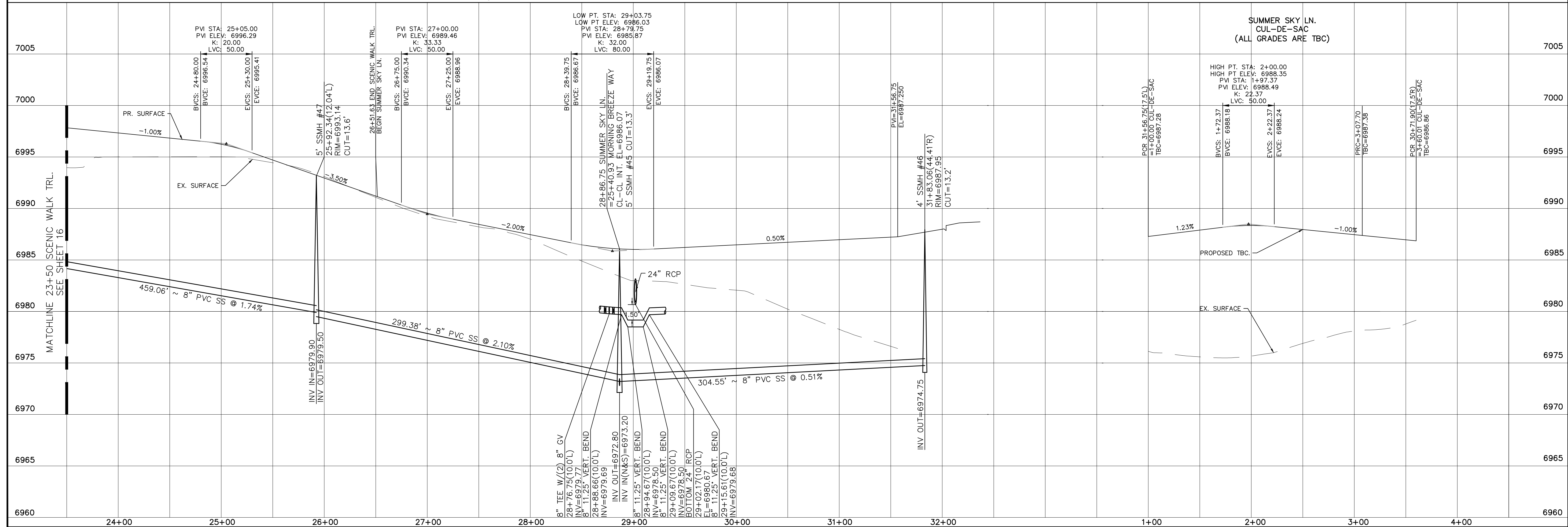
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
52	26.28'	67.50'	22°18'38"
53	106.33'	52.50'	116°02'31"
54	26.28'	67.50'	22°18'38"
55	43.01'	34.50'	71°25'15"
56	30.63'	19.50'	90°00'00"
57	30.63'	19.50'	90°00'00"
58	52.32'	42.50'	70°31'44"
59	207.70'	47.50'	250°31'44"

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



# SUMMER SKY LN.

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



No.	Revisions	Date	Instr.	Appr.	Date

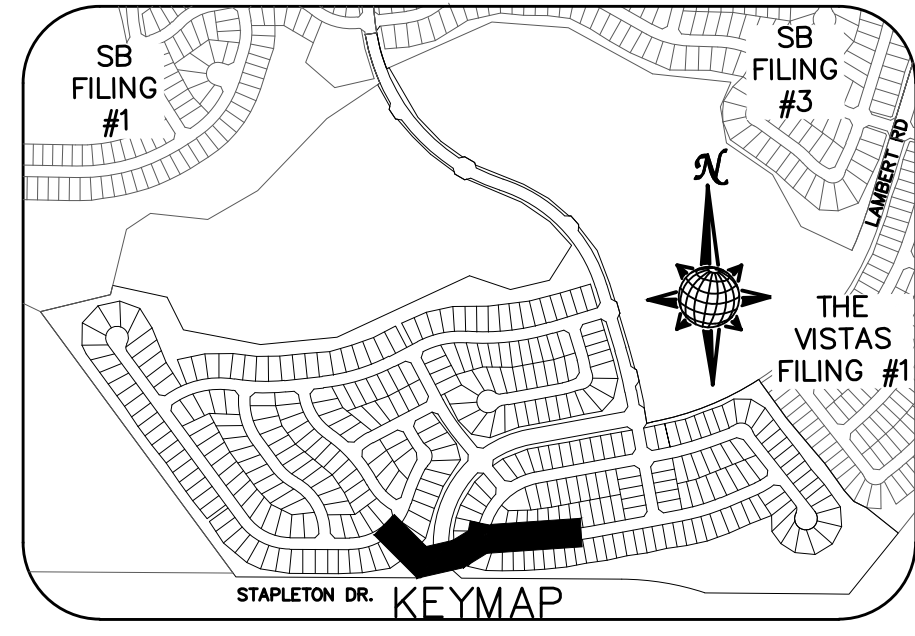
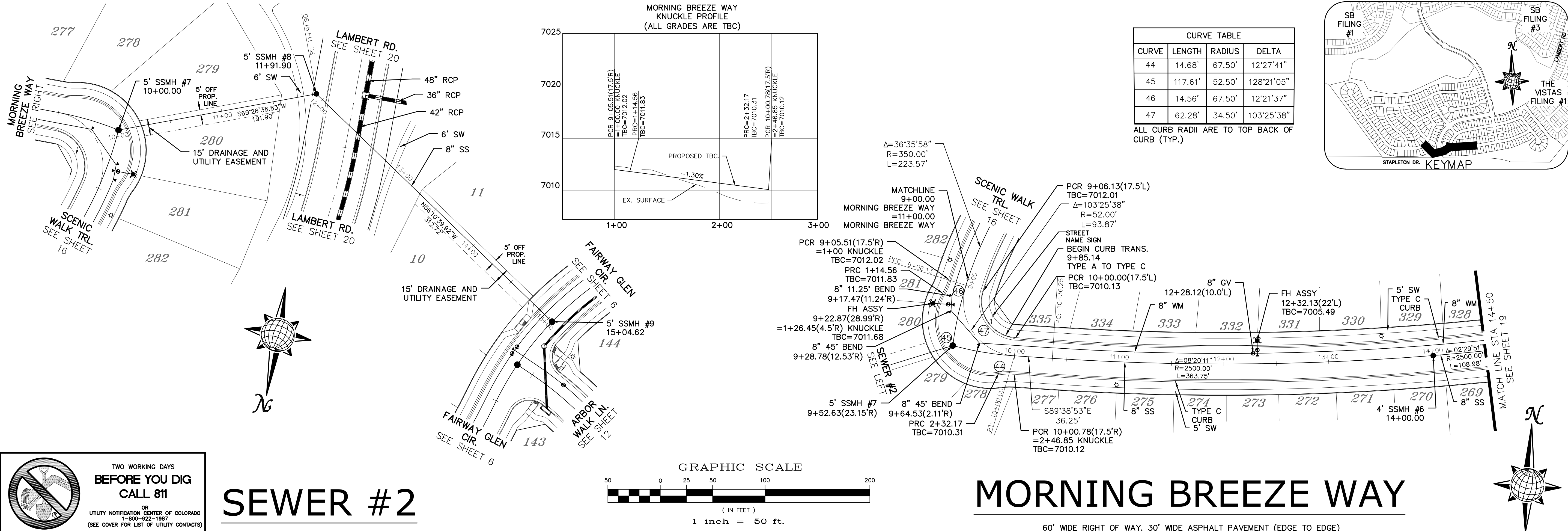
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457



WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
SUMMER SKY LN.

Scale AS SHOWN  
Drawn by LCA  
Checked by TAK  
Date JAN 2018  
17 of 55

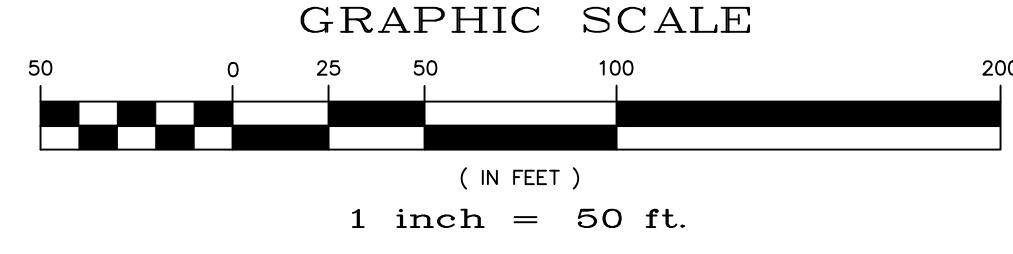
PCD PROJECT NO. XX-XX-XXX



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

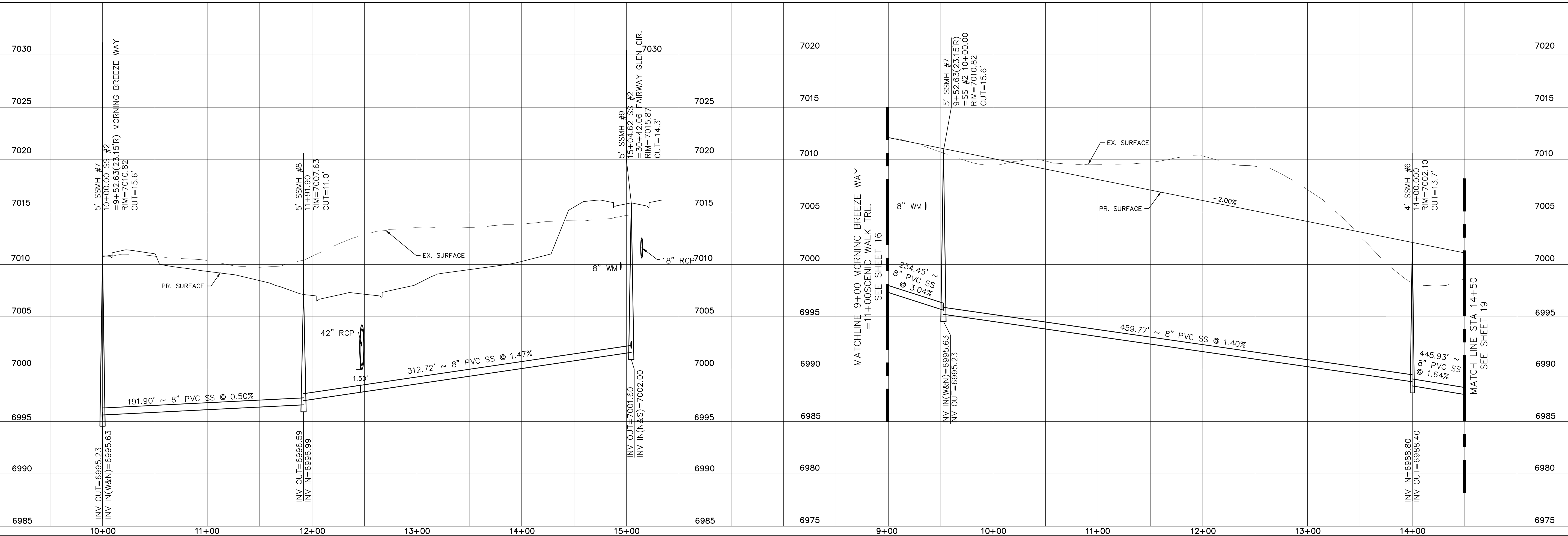
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

# SEWER #2

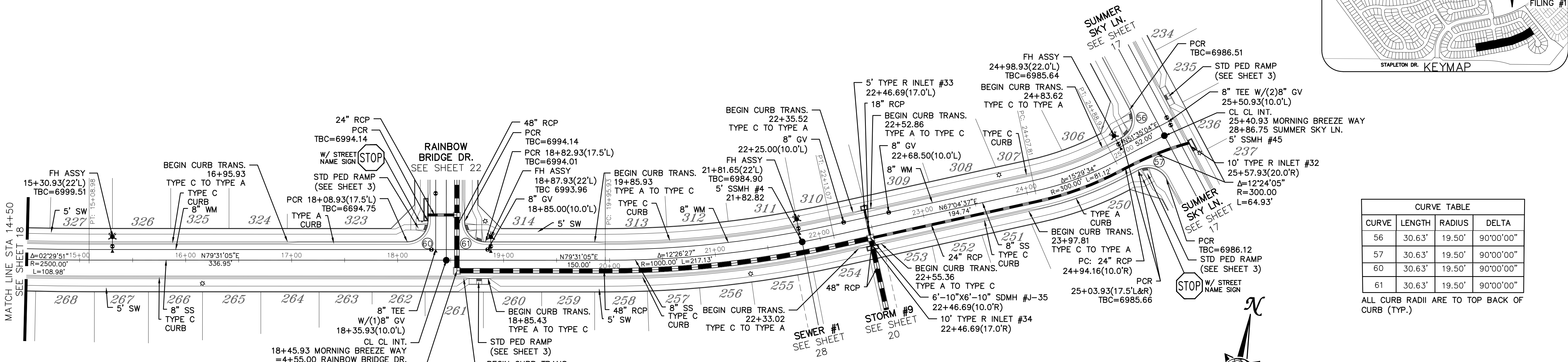
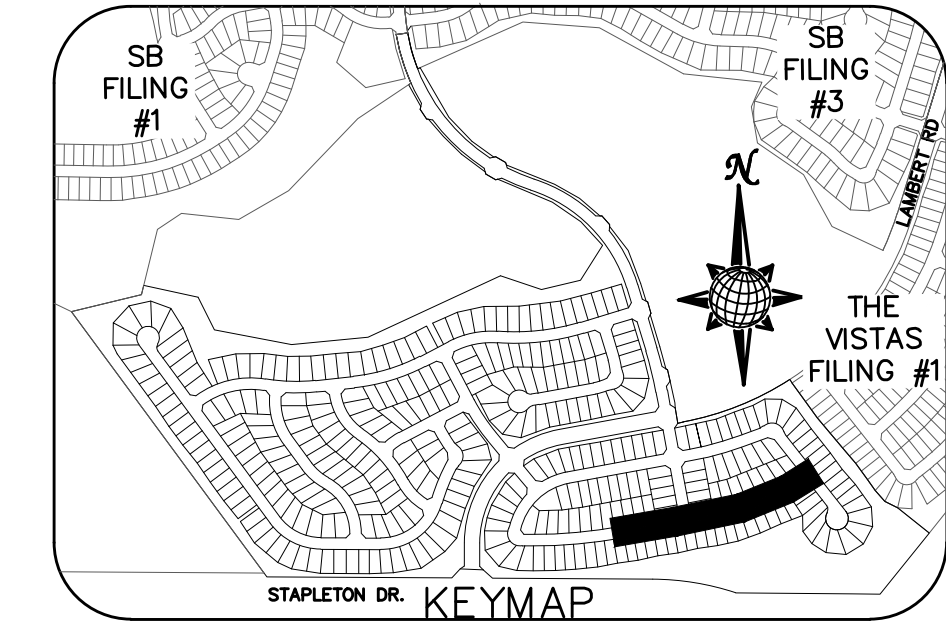
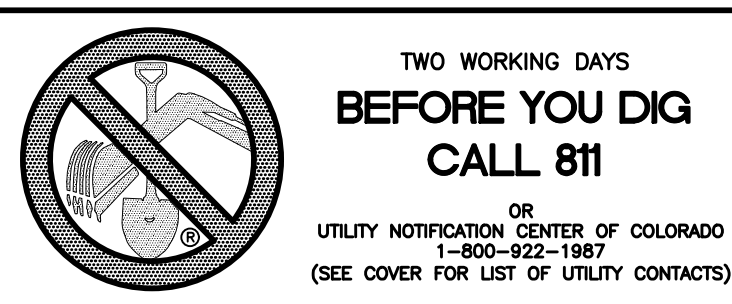


# MORNING BREEZE WAY

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

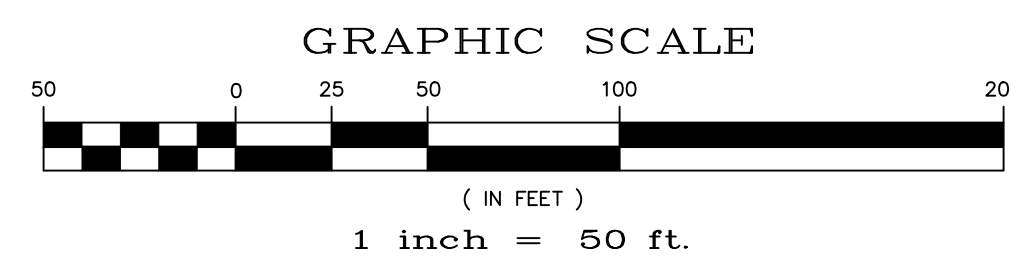


TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	
<b>MERIDIAN RANCH</b>	
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS MORNING BREEZE WAY + SEWER #2	
Scale AS SHOWN	Drawn by LCA
18 of 55	Checked by TAK
	Date JUN 2018
Revisions	
No.	Date
	Appr.
	Date



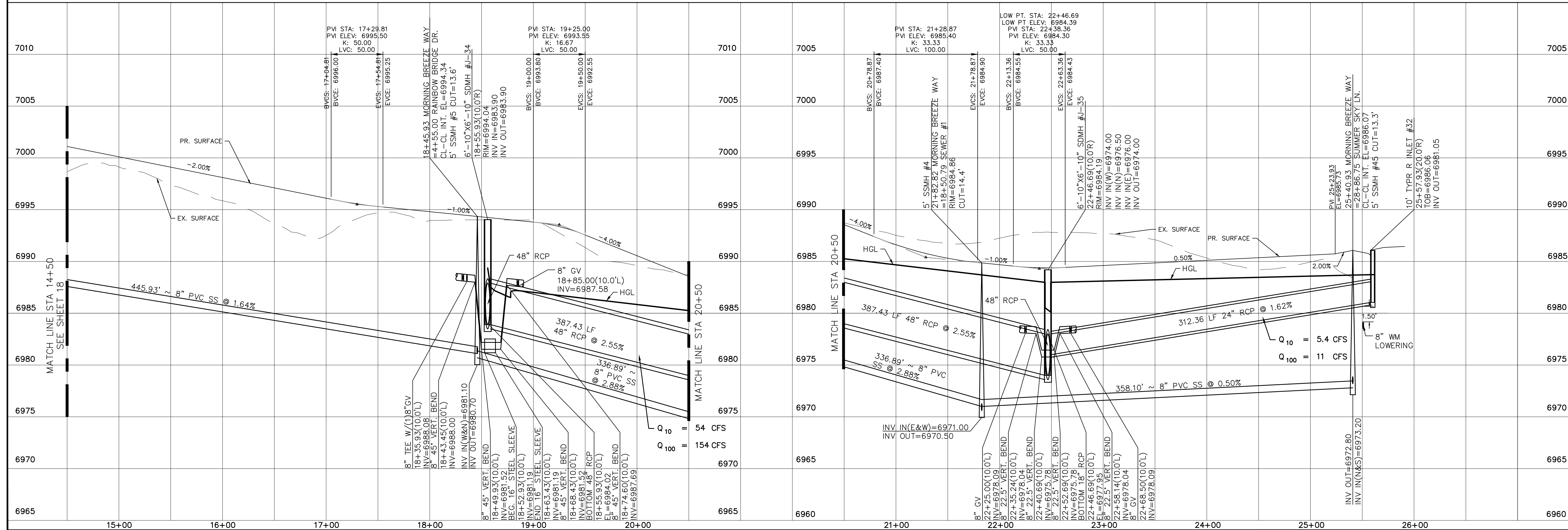
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
56	30.63'	19.50'	90°00'00"
57	30.63'	19.50'	90°00'00"
60	30.63'	19.50'	90°00'00"
61	30.63'	19.50'	90°00'00"

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

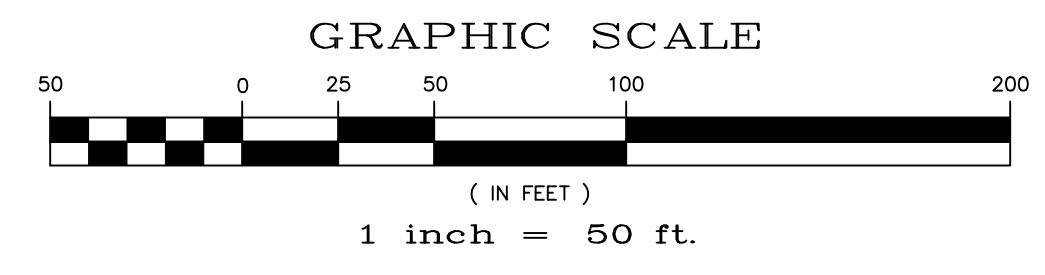
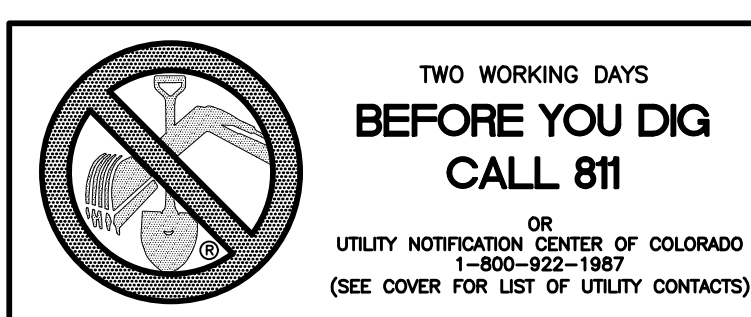


# MORNING BREEZE WAY

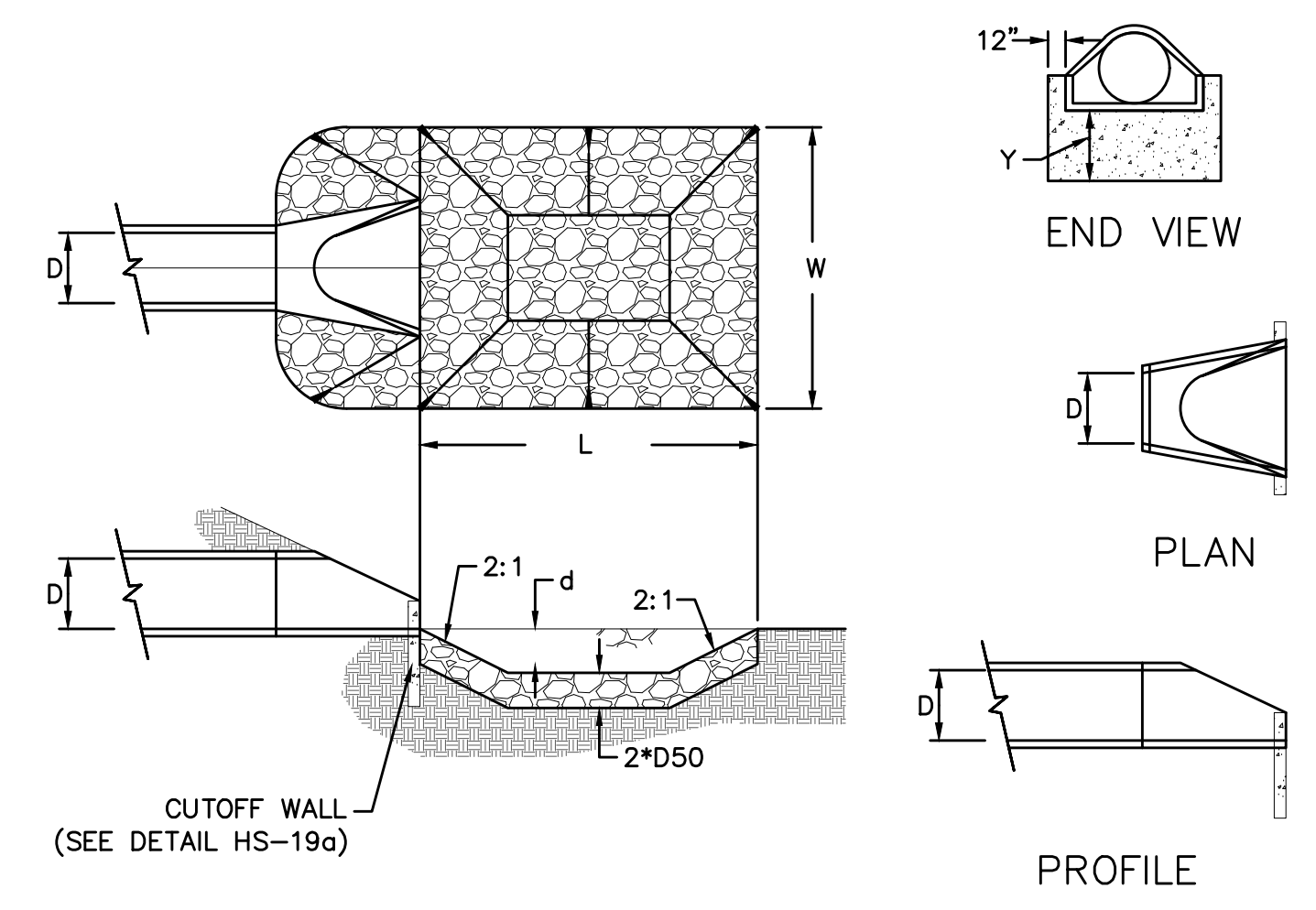
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



SB FILING #1	SB FILING #3	THE VISTAS FILING #1
STAPLETON DR.	KEYMAP	
TECH CONTRACTORS	11886 STAPLETON DRIVE	TELEPHONE: 719.495.7444
	FALCON, CO 80831	FAX: 719.495.2457
		WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS MORNING BREEZE WAY
Scale	AS SHOWN	19 of 55
Drawn by	LOG	Checked by
		TAK
		Date
		JAN 2018
		No.
		Revisions
		Date
		Appr.
		Date

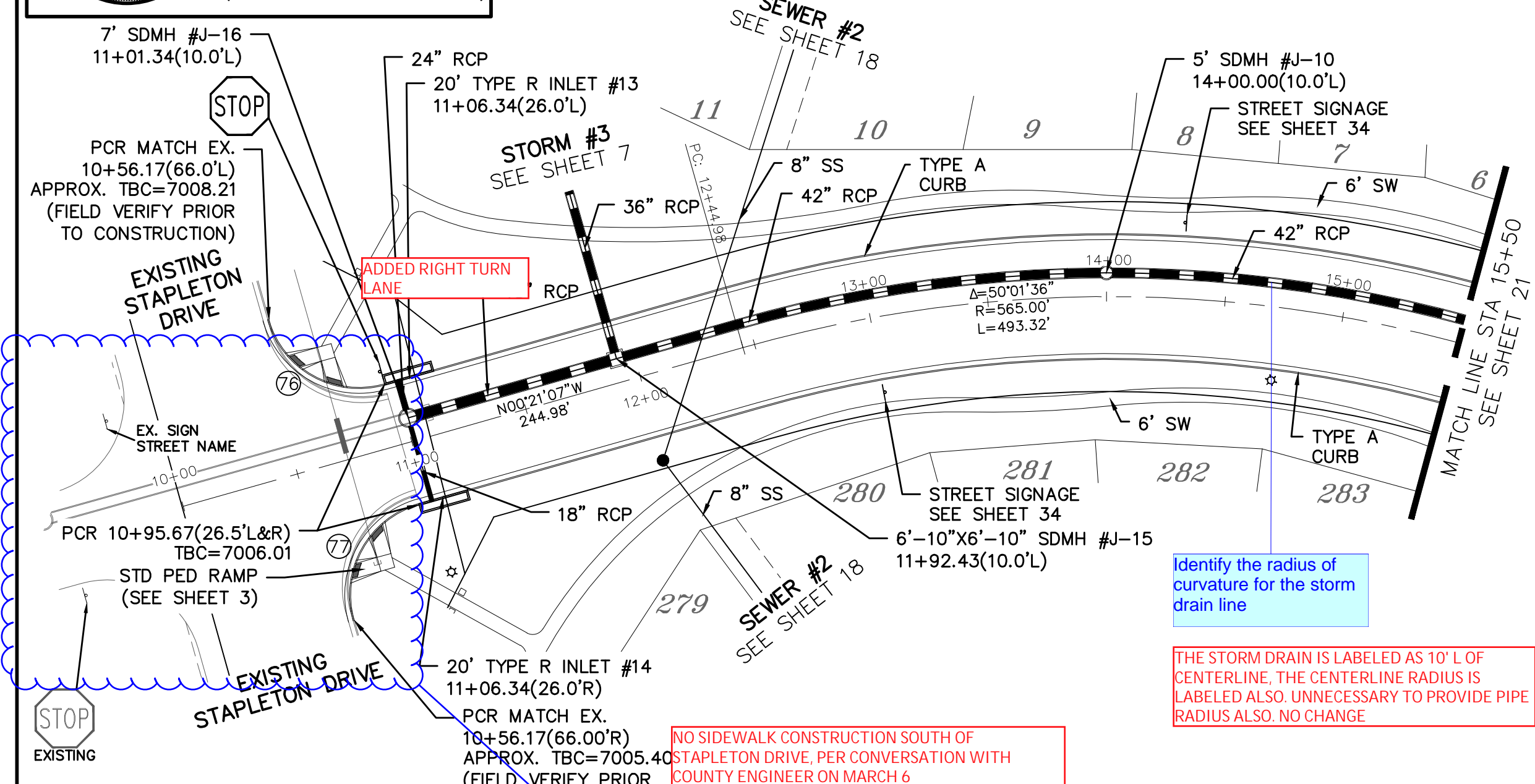
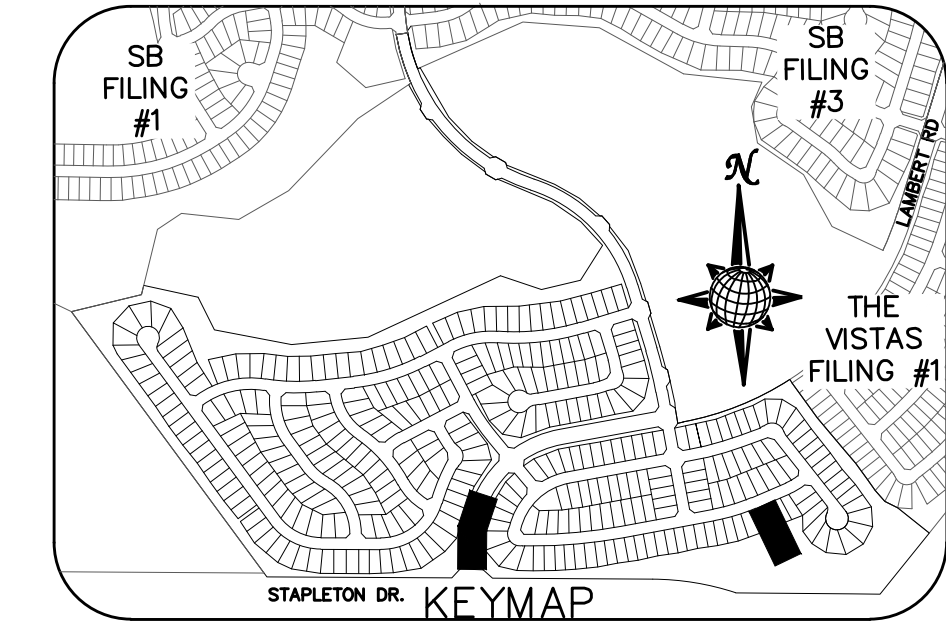


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
Figure HS-19a.  
Culvert Cutoff Wall



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
76	62.05'	39.50'	90°00'00"
77	62.05'	39.50'	90°00'00"

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

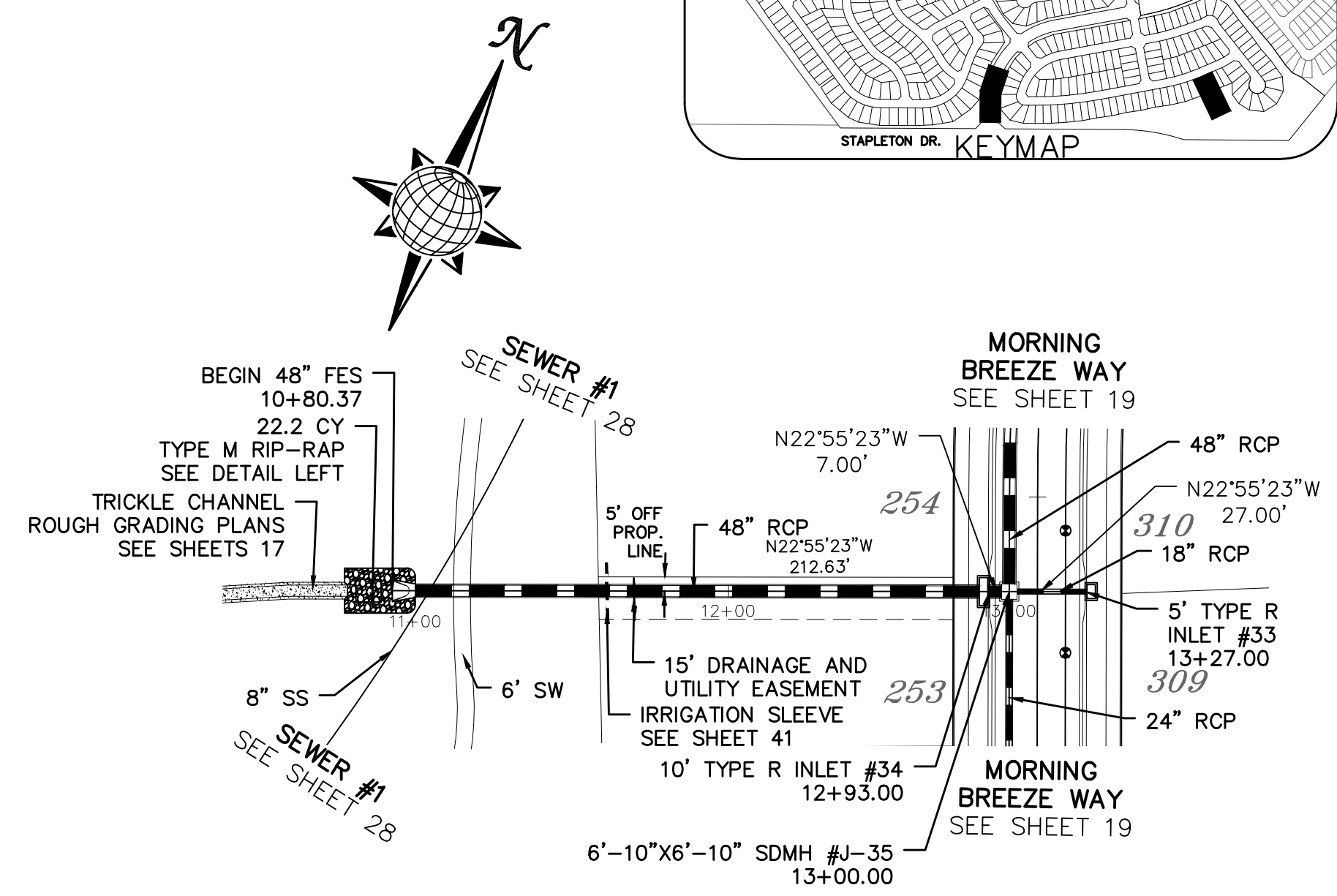


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

- NOTES:
- Headwall with wingwalls or flared end section required at all culvert outlets.
  - Provide joint fasteners for flared end sections.

POND H  
OUTLET PROTECTION DETAIL  
NTS

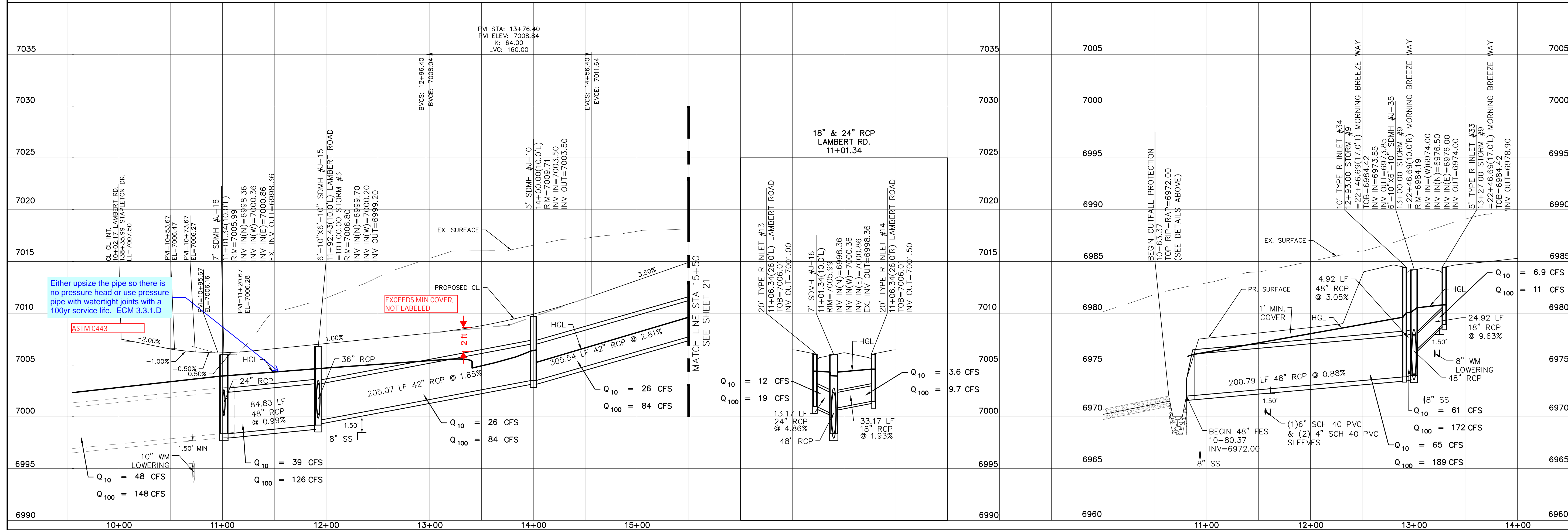
PIPE OUTLET	L	W	d	TYPE	D <sub>50</sub>	CY	Y	NOTES
30"	10.0	10.0	1.5	L	0.75'	7.3	2.6'	SEE SHEET 7
48"	17.0	16.0	2.0	M	1.0'	22.2	3.8'	SEE RIGHT



# STORM #9

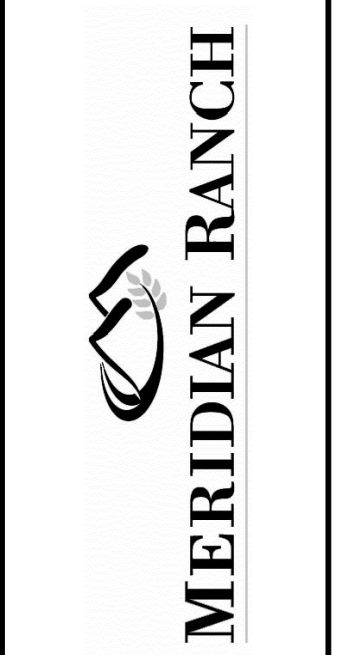
# LAMBERT RD.

80' WIDE RIGHT OF WAY, 48' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



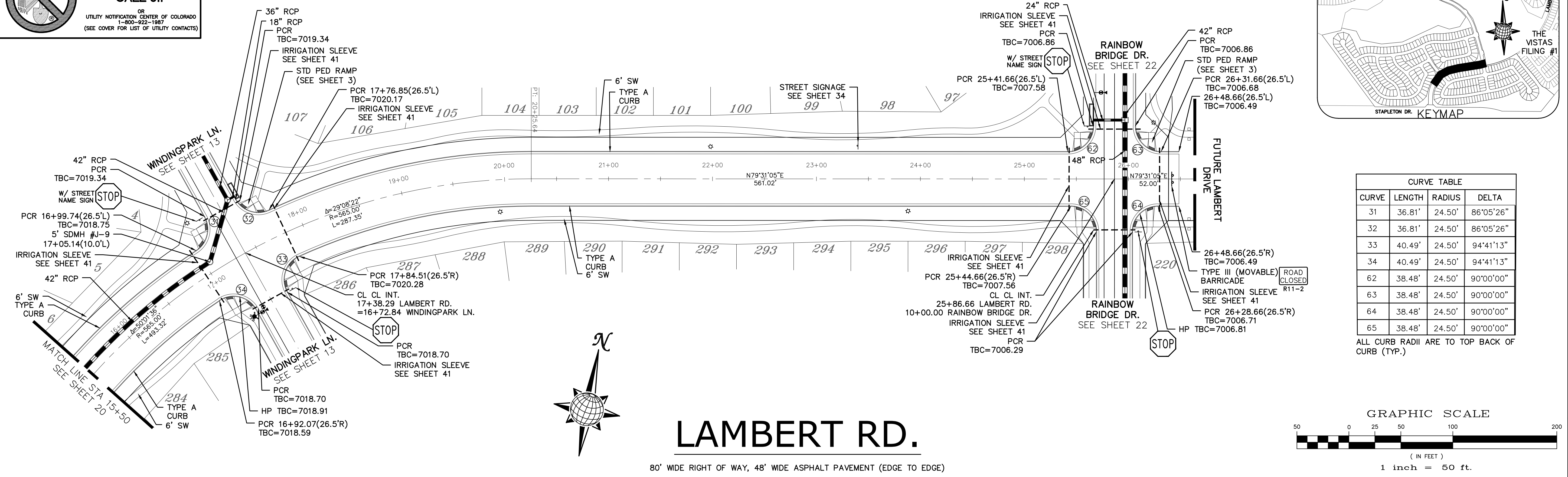
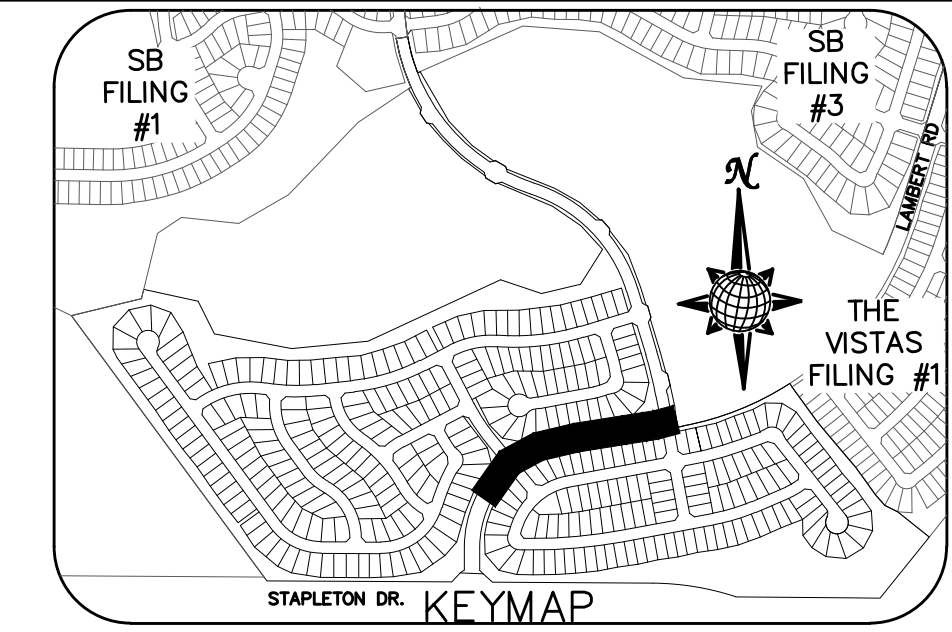
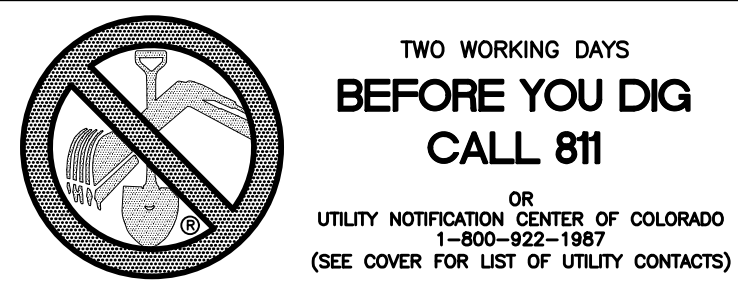
No.	Revisions	Date	Appr.	Date

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



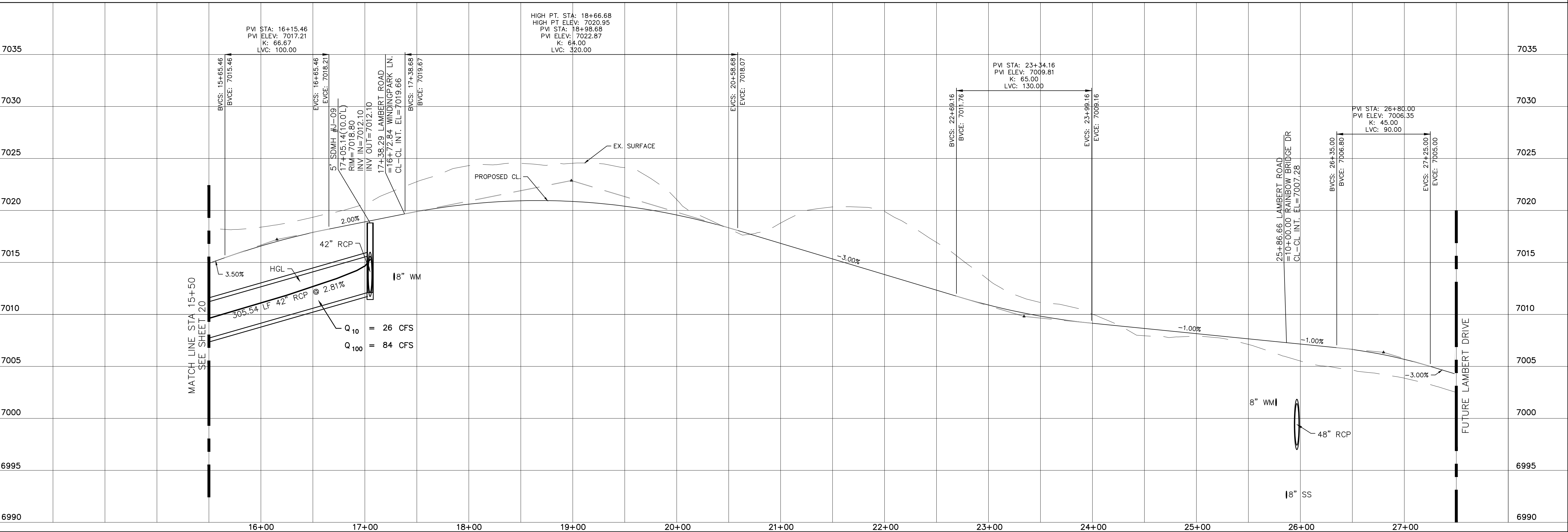
WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
LAMBERT RD.  
+ STORM #9

Scale	AS SHOWN
Drawn by	LOG
Checked by	TAK
Date	JAN 2018
20 of	55



# LAMBERT RD.

80' WIDE RIGHT OF WAY, 48' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



Date	Appr.	Invt.	Date	No.	Revisions

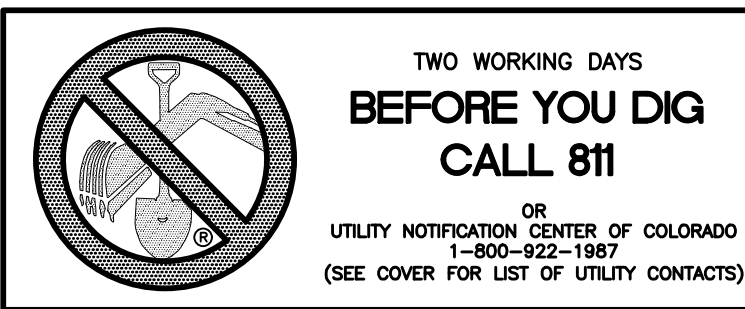
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

MERIDIAN RANCH

WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
LAMBERT RD.

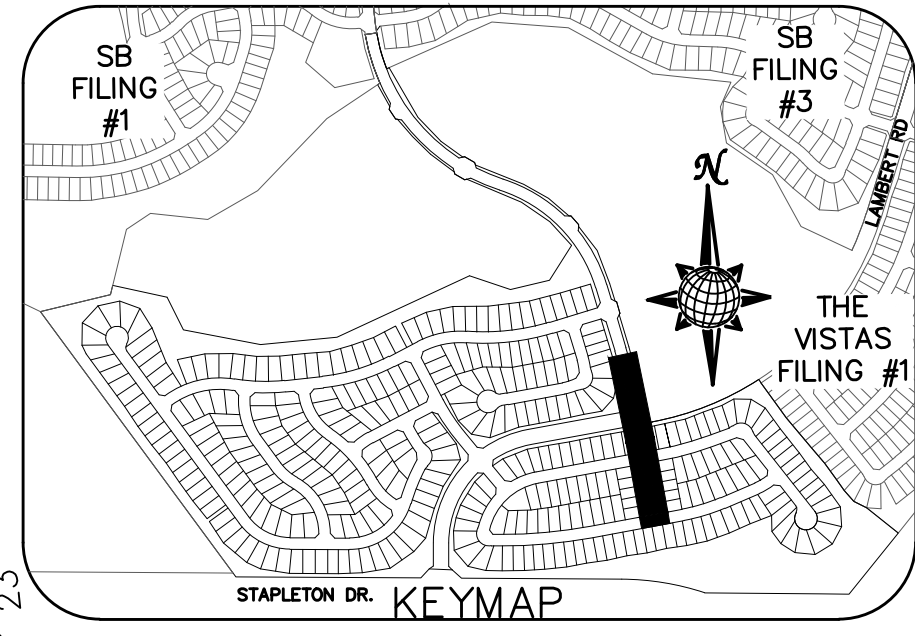
Drawn by: LCA  
Checked by: TAK  
Date: JAN 2018

Scale: AS SHOWN  
21 of 55



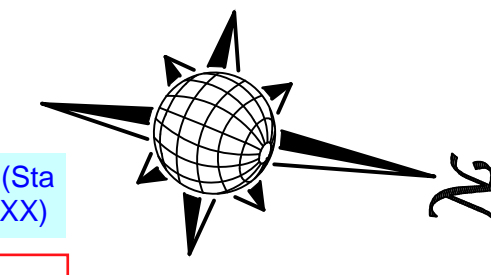
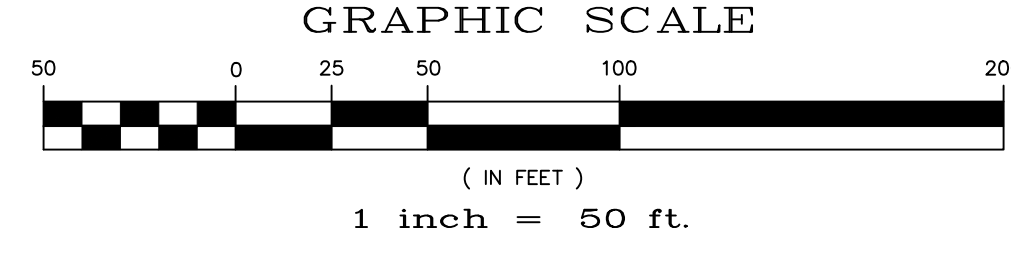
**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

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



CURVE	LENGTH	RADIUS	DELTA
48	30.63'	19.50'	90°00'00"
49	30.63'	19.50'	90°00'00"
50	30.63'	19.50'	90°00'00"
51	30.63'	19.50'	90°00'00"
60	30.63'	19.50'	90°00'00"
61	30.63'	19.50'	90°00'00"
62	38.48'	24.50'	90°00'00"
63	38.48'	24.50'	90°00'00"
64	38.48'	24.50'	90°00'00"
65	38.48'	24.50'	90°00'00"
66	37.98'	24.50'	88°49'23"
67	37.98'	24.50'	88°49'23"

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



# RAINBOW BRIDGE DR.

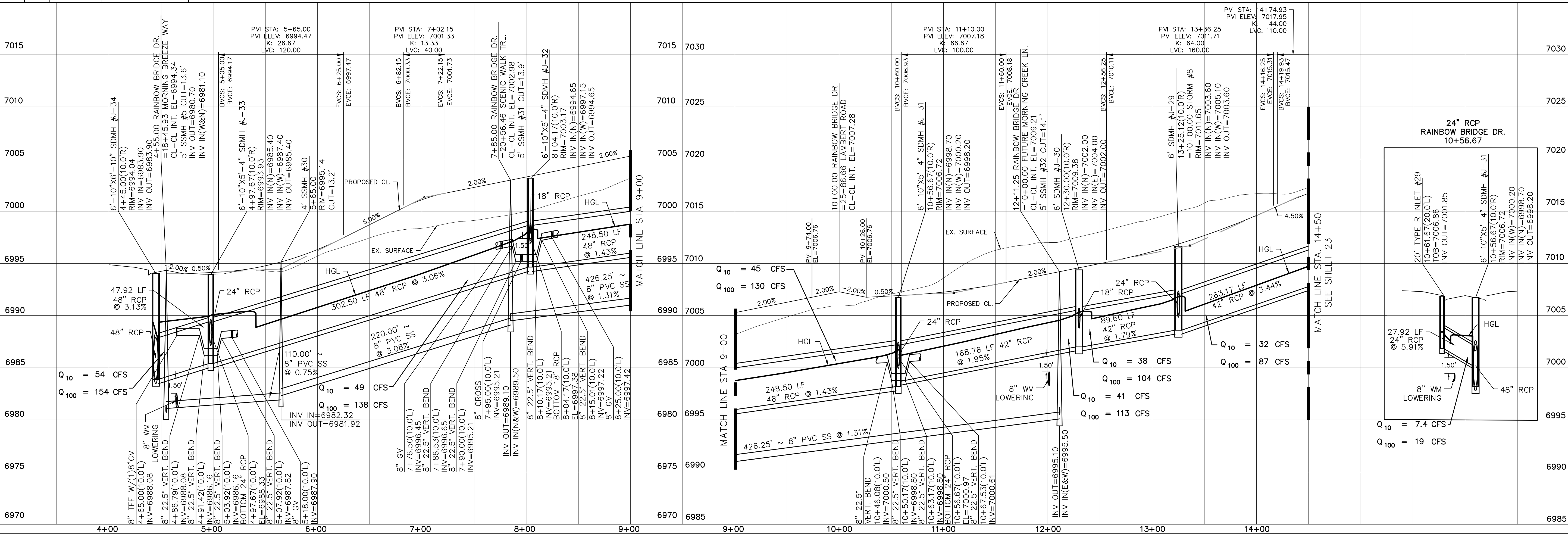
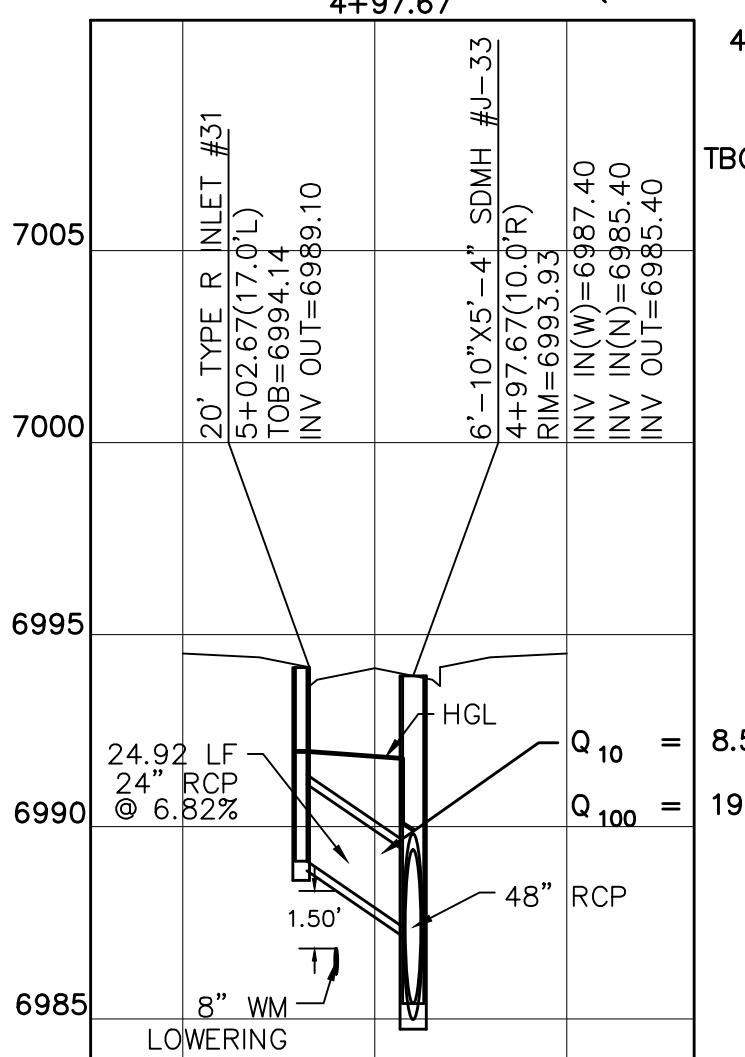
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE SOUTH OF LAMBERT DR.)  
60' WIDE RIGHT OF WAY, 36' WIDE ASPHALT PAVEMENT (EDGE TO EDGE NORTH OF LAMBERT DR.)

Per earlier comment identify the roadway classification especially in this case where it changes.

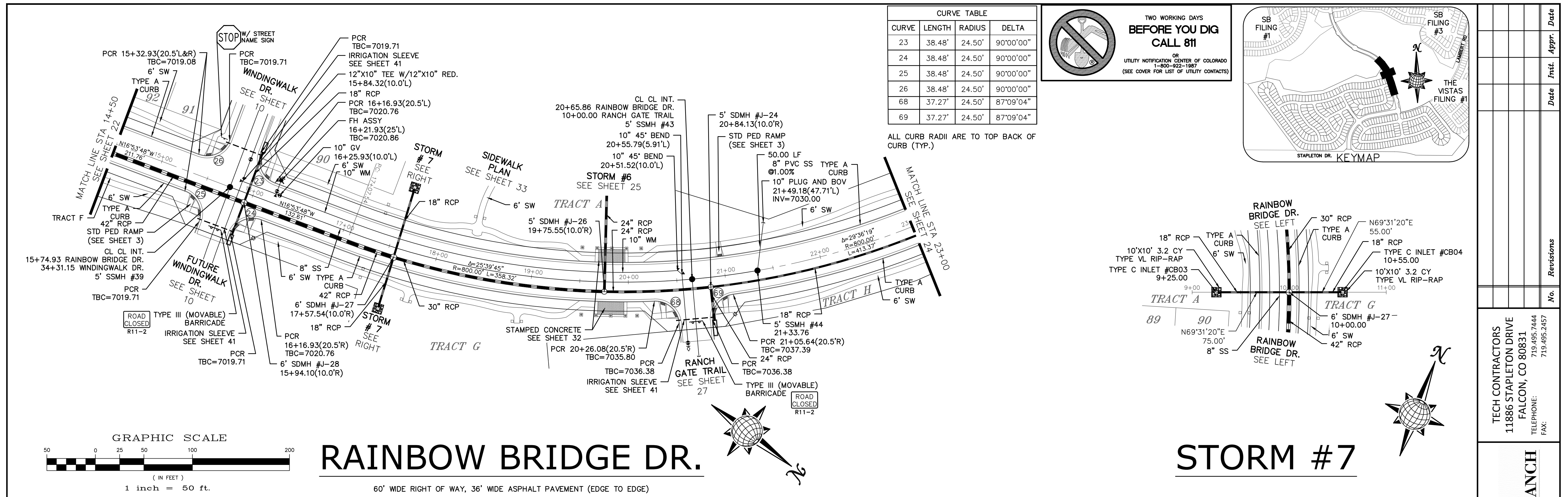
Note the extent (Sta X+XX to Sta X+XX)

ADDRESSED

ADDRESSED



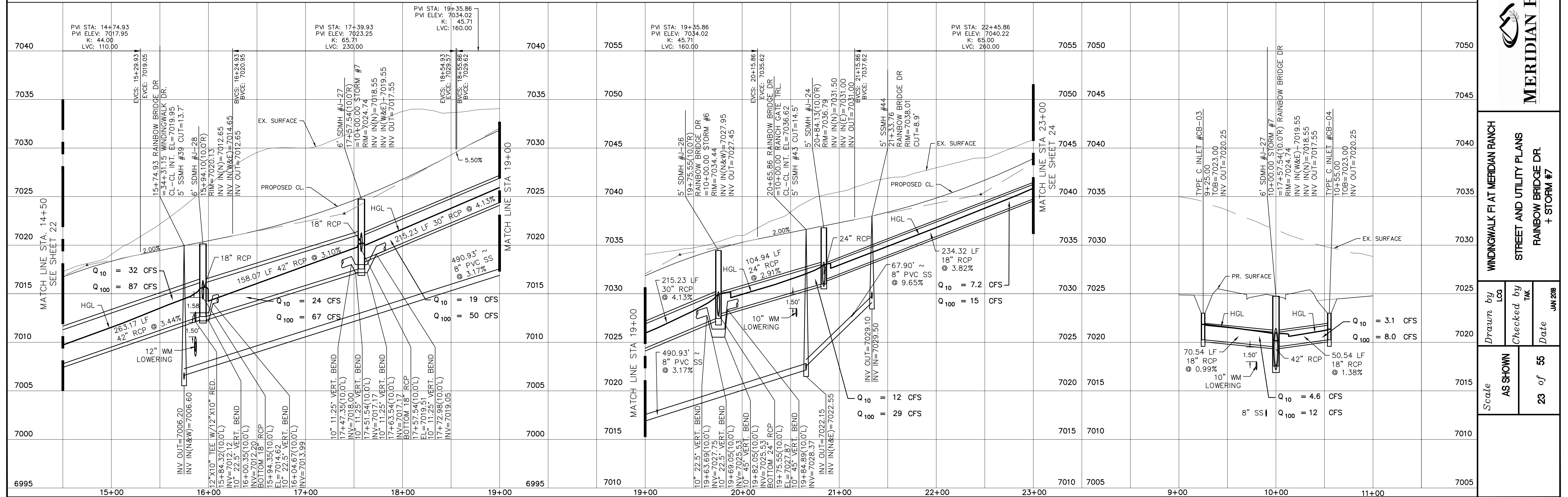
Date		Appr.	
Date		Trdt.	
Revisions	No.		
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
<b>MERIDIAN RANCH</b>			
WINDINGWALK FL AT MERIDIAN RANCH STREET AND UTILITY PLANS RAINBOW BRIDGE DR.			
Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	JAN 2018
22 of 55			




# RAINBOW BRIDGE DR.

# STORM #7

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



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


**MERIDIAN RANCH**

WINDINGWALK FLAT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 RAINBOW BRIDGE DR.  
 + STORM #7

Drawn by: LGA  
 Checked by: TAK  
 Date: JUN 2018

Scale: AS SHOWN  
 23 of 55

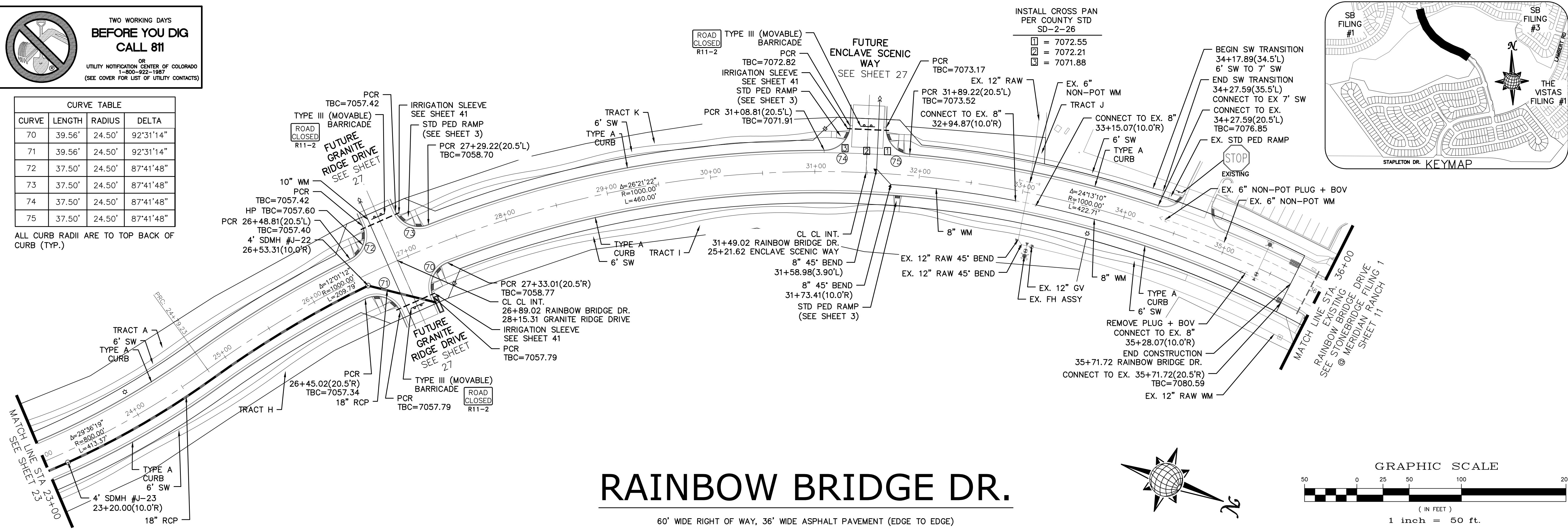
S:\CADD\Projects\Rainbow Bridge\Drawings\PLAN\STORM\STORM#7.Plan.dwg, 1/20/18 8:51:36 AM

**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)

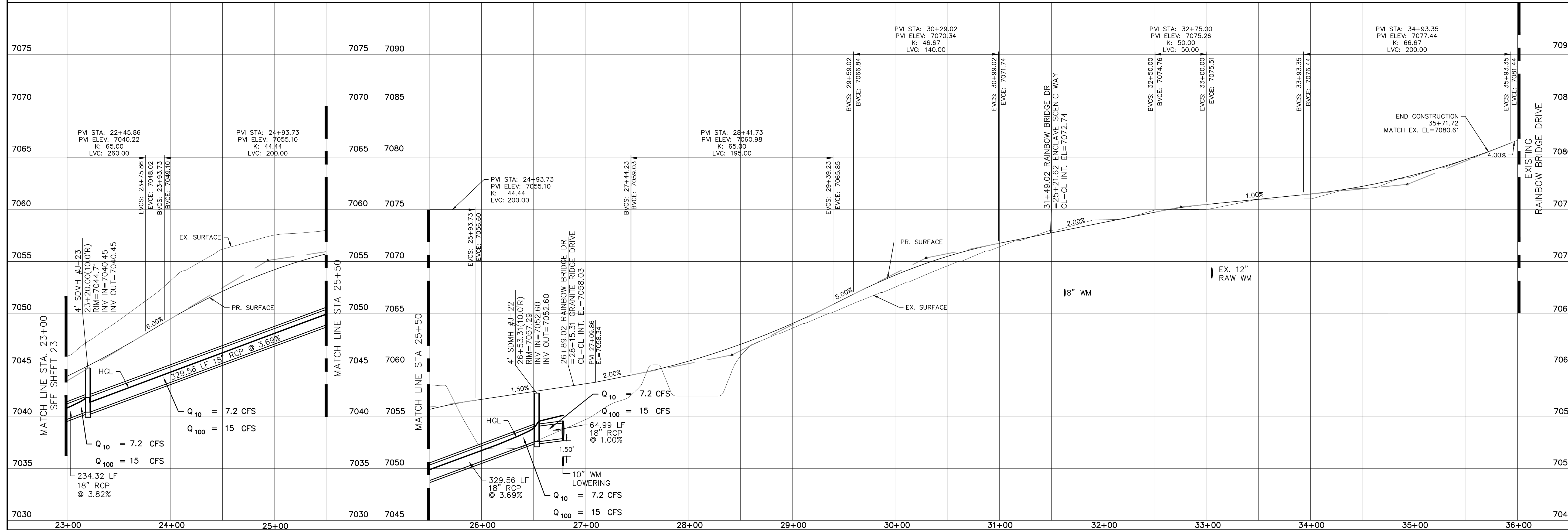
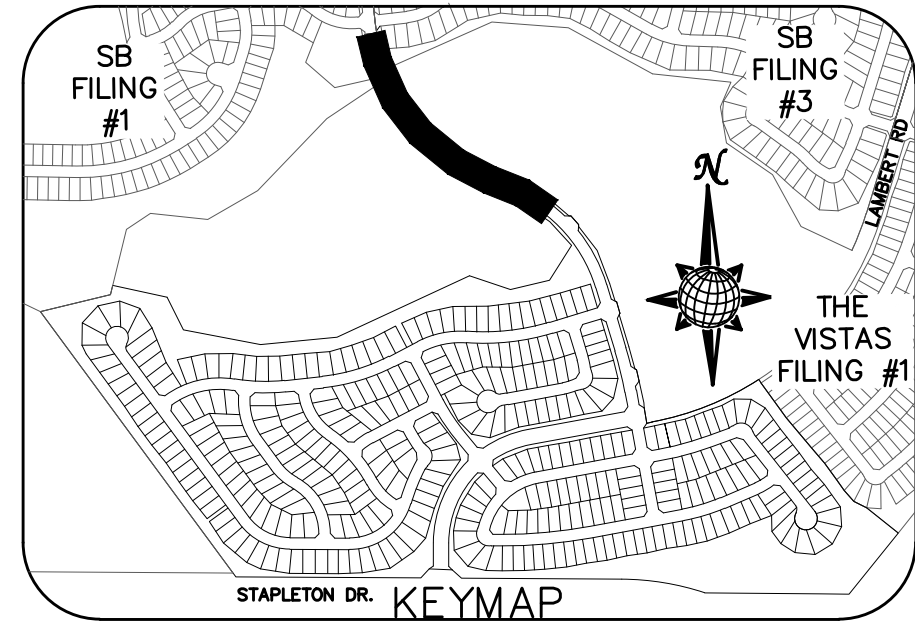
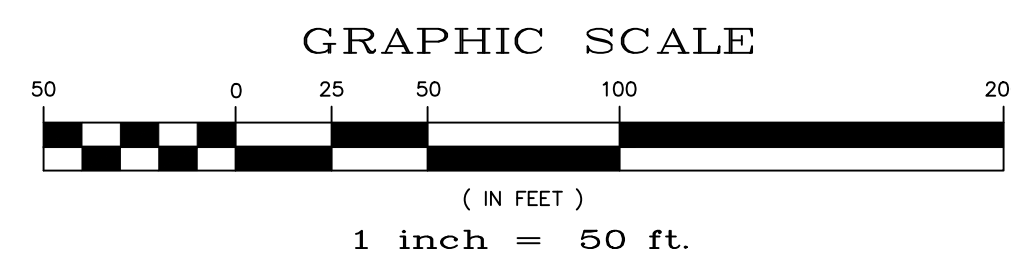
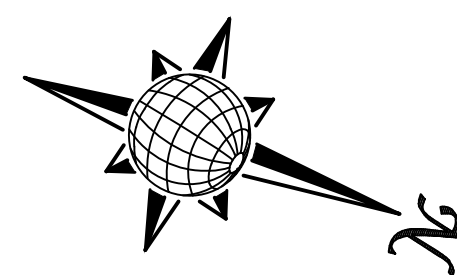
CURVE	LENGTH	RADIUS	DELTA
70	39.56'	24.50'	92°31'14"
71	39.56'	24.50'	92°31'14"
72	37.50'	24.50'	87°41'48"
73	37.50'	24.50'	87°41'48"
74	37.50'	24.50'	87°41'48"
75	37.50'	24.50'	87°41'48"

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



# RAINBOW BRIDGE DR.

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



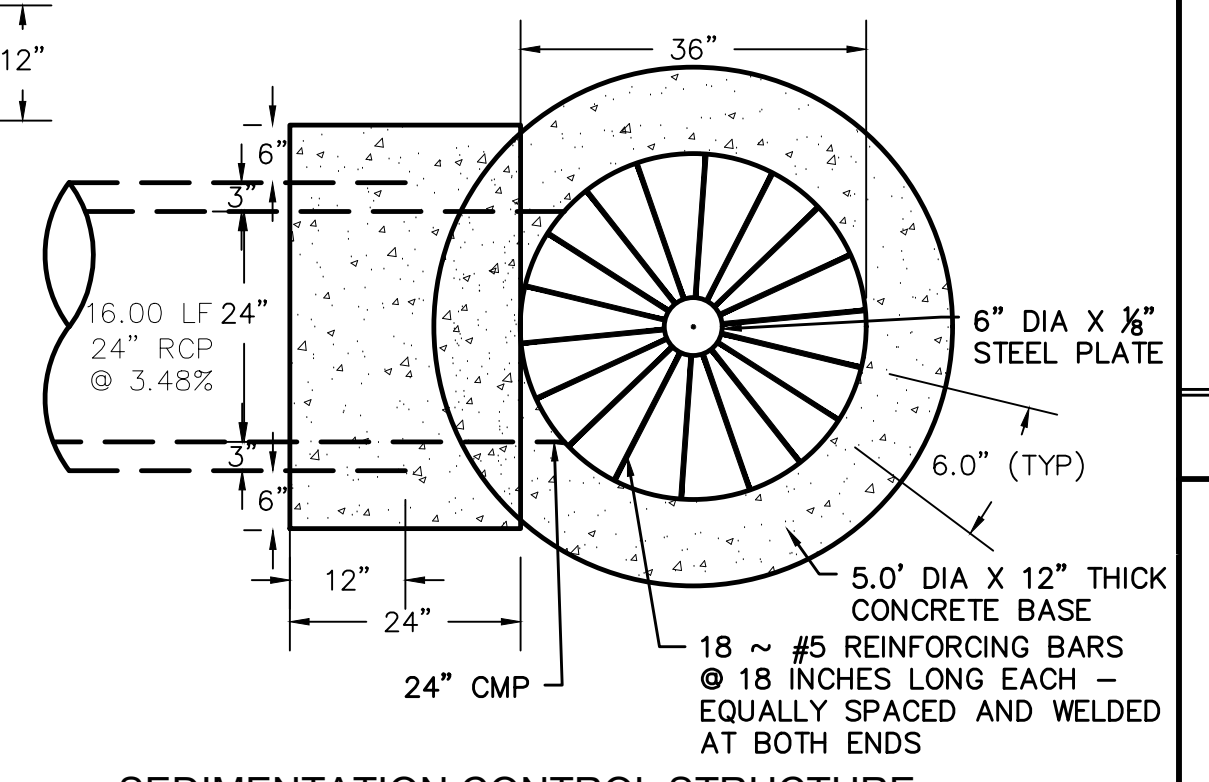
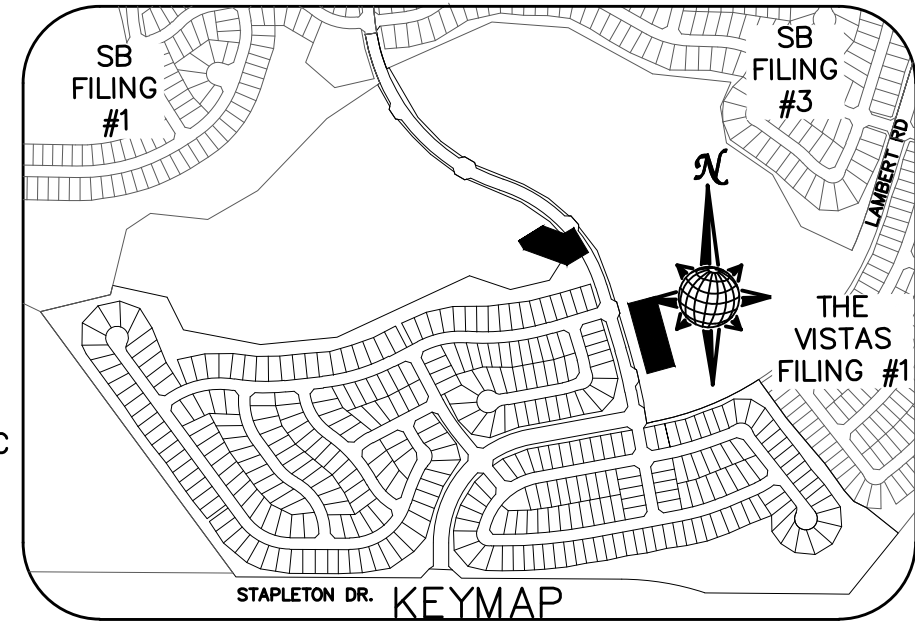
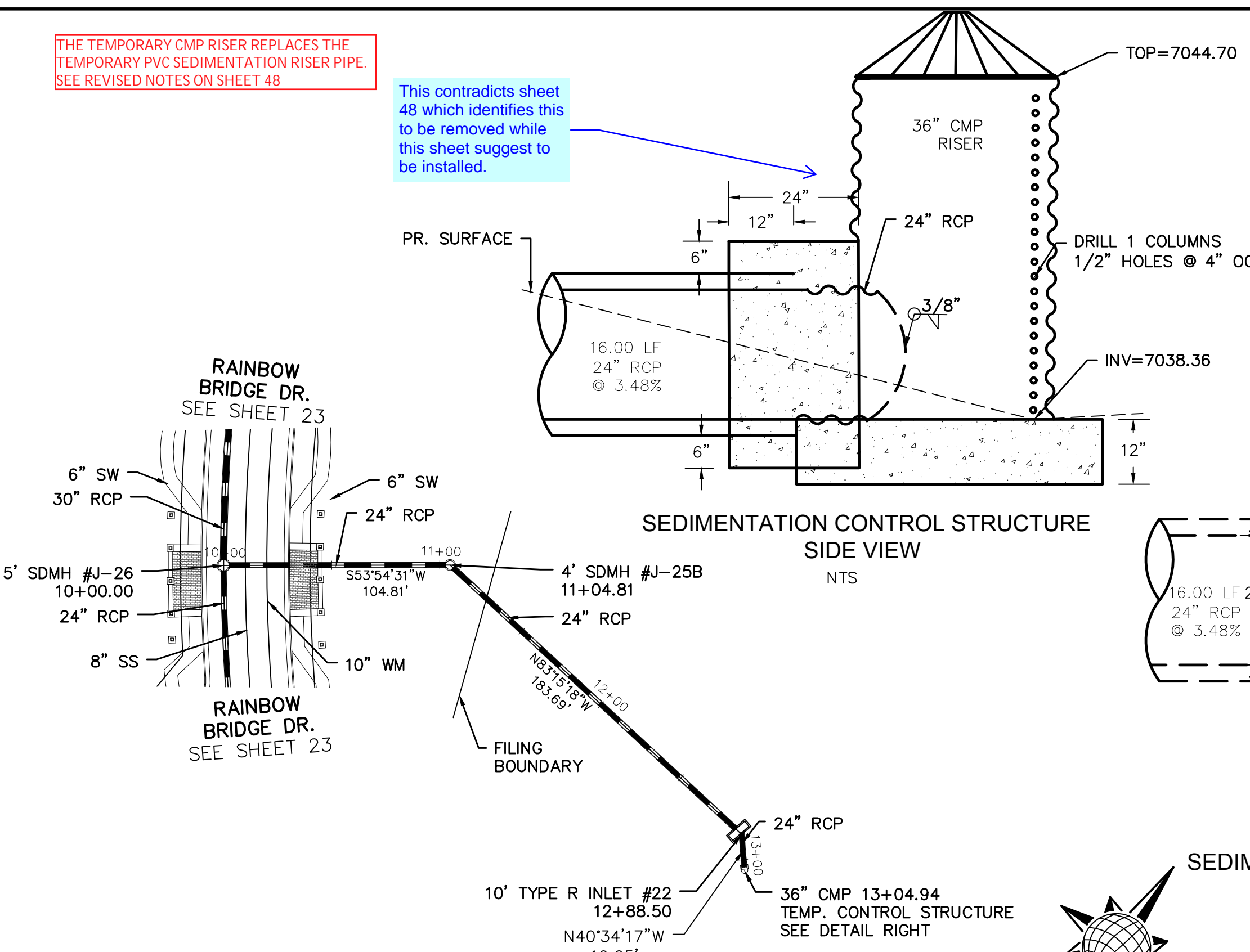
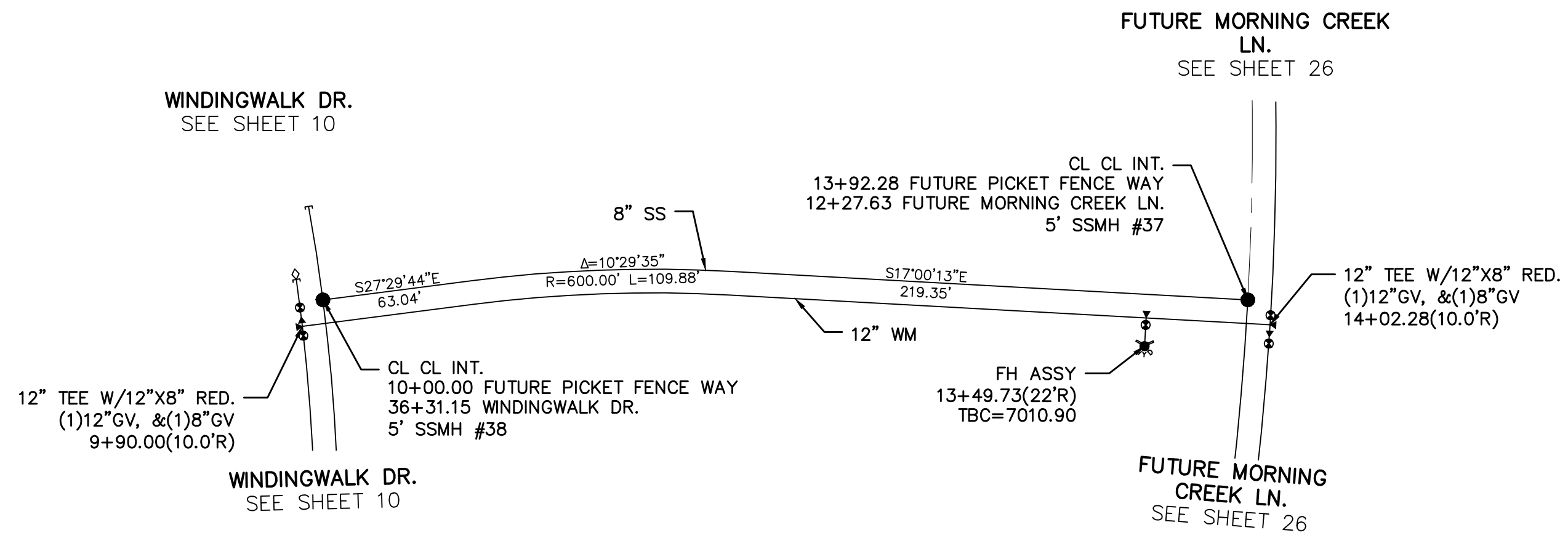
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	Revisions	No.	Date	Appr.	Date
 <b>MERIDIAN RANCH</b>	Drawn by	Checked by	Date		
	AS SHOWN	TAK	JAN 2018		
Scale	24 of 55				
PCD PROJECT NO. XX-XX-XXX					



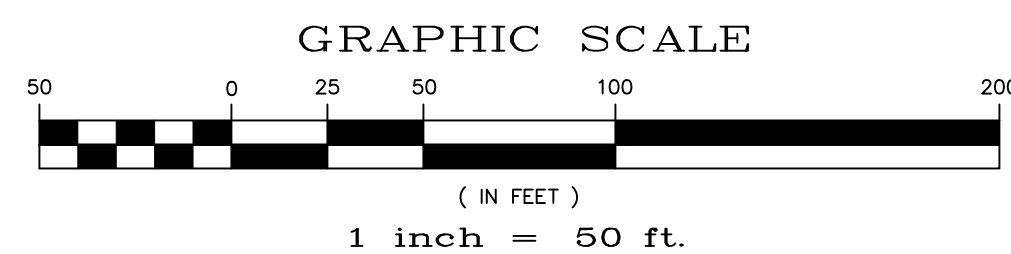
**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

THE TEMPORARY CMP RISER REPLACES THE  
TEMPORARY PVC SEDIMENTATION RISER PIPE.  
SEE REVISED NOTES ON SHEET 48

This contradicts sheet  
48 which identifies this  
to be removed while  
this sheet suggest to  
be installed.



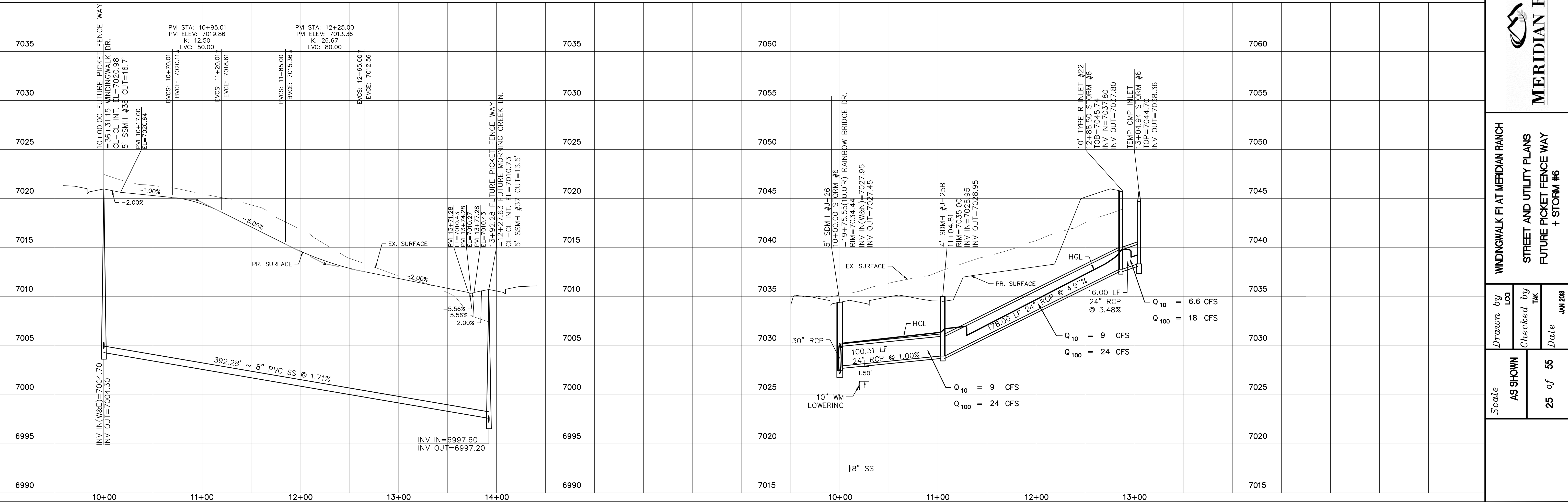
SEDDIMENTATION CONTROL STRUCTURE  
PLAN VIEW  
NTS



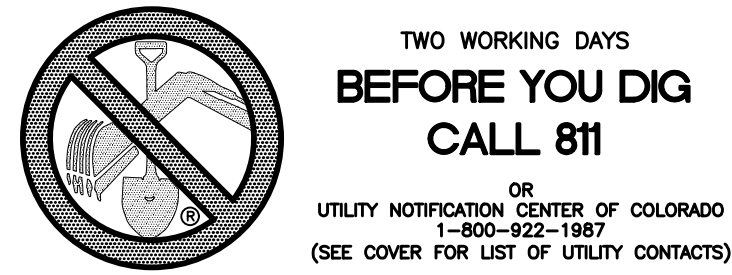
# FUTURE PICKET FENCE WAY

# STORM #6

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

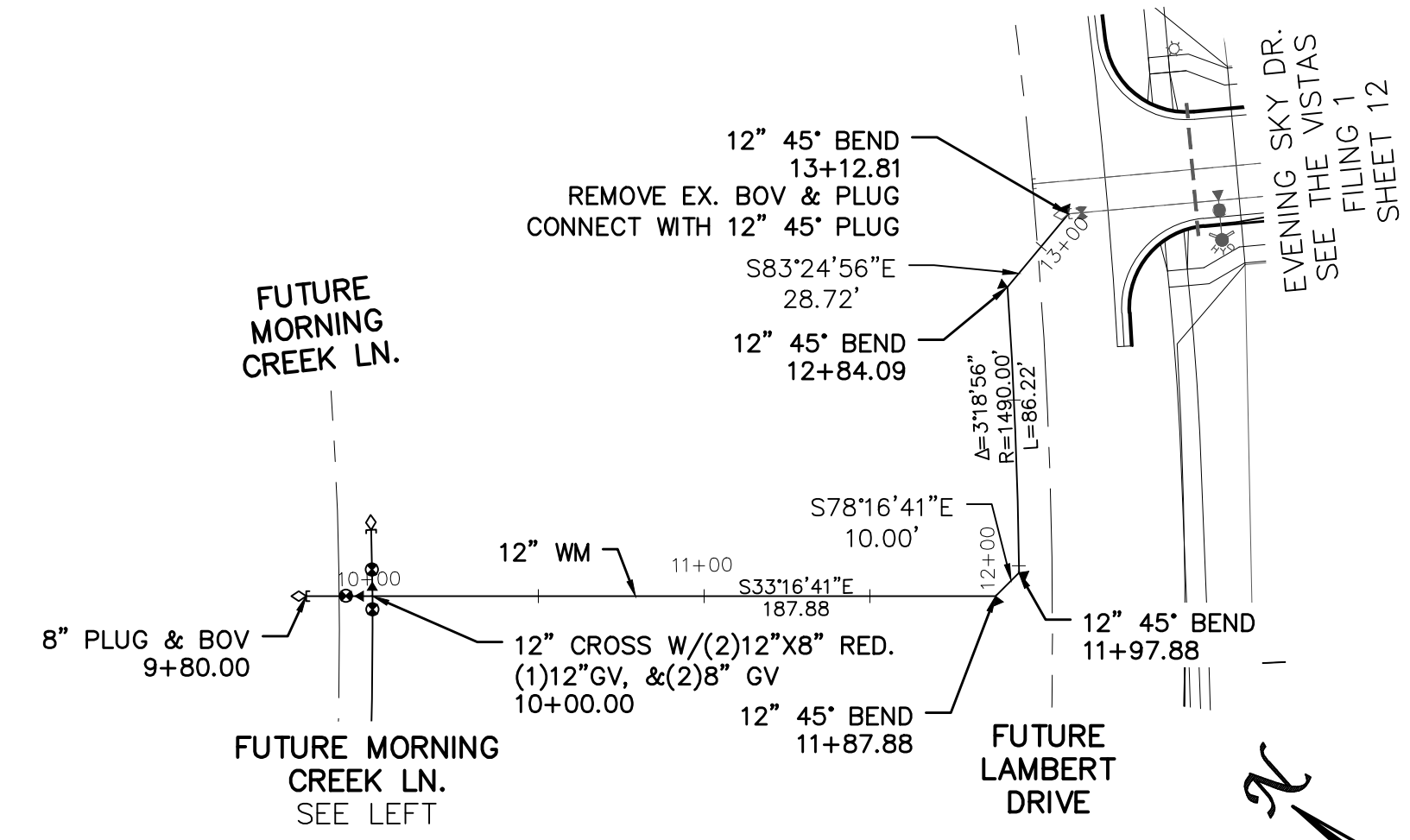
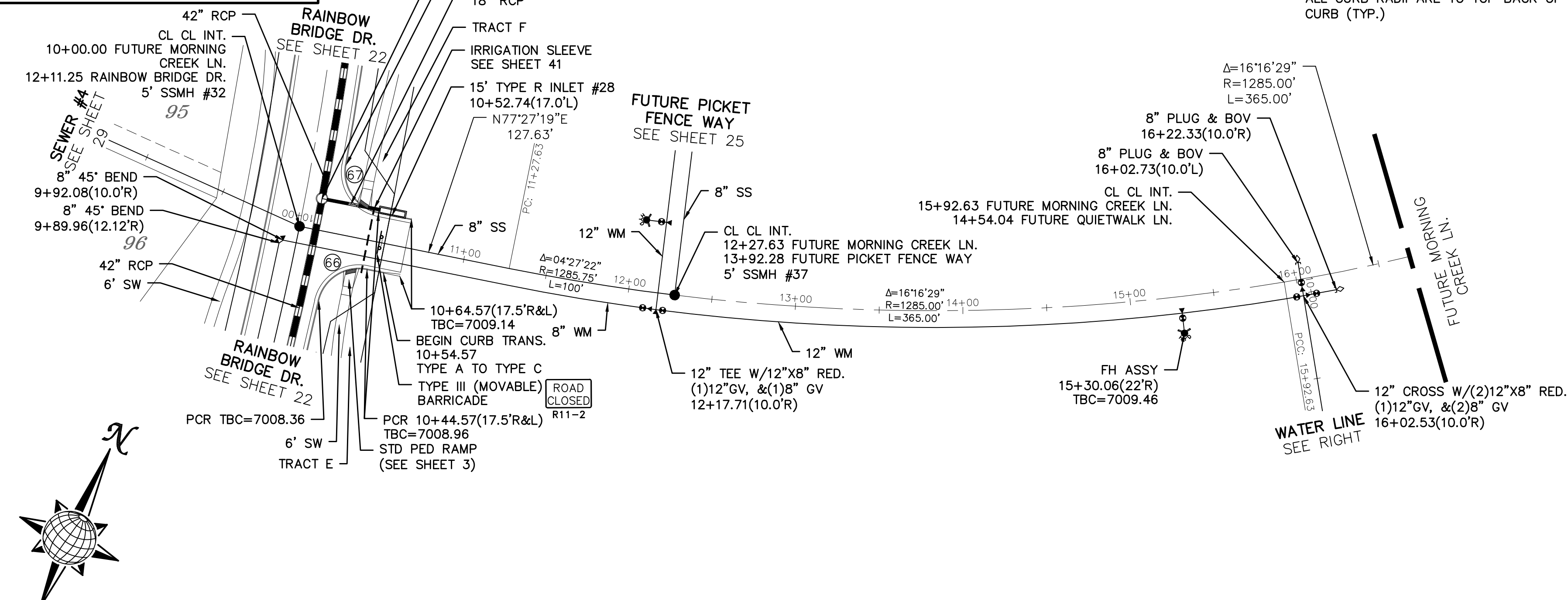
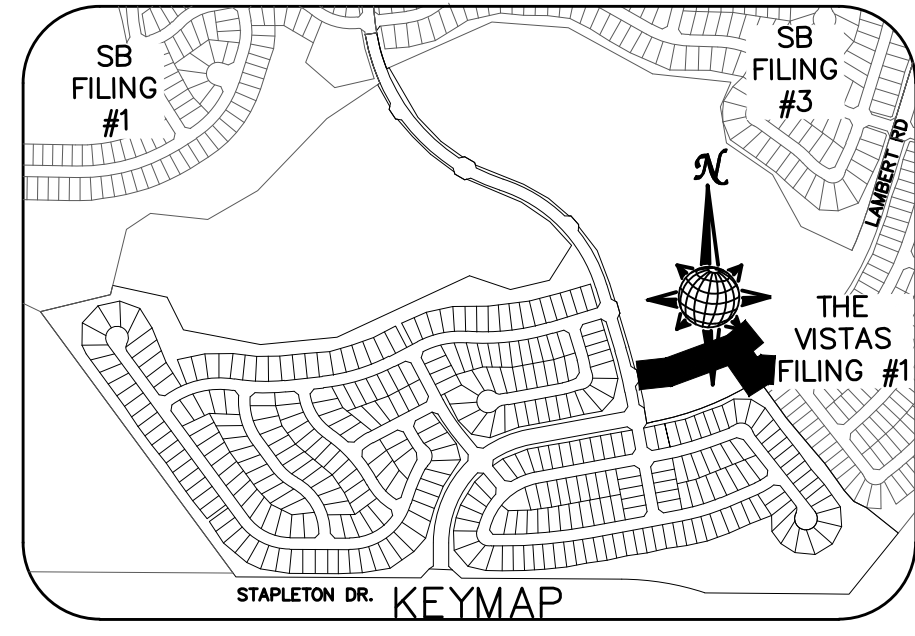
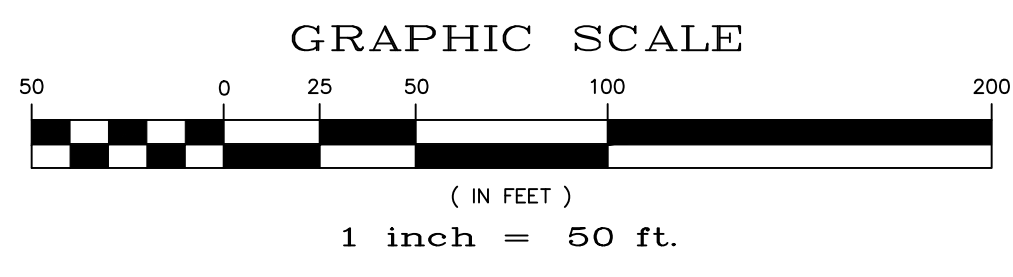


TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	SB FILING #1	SB FILING #3	THE VISTAS FILING #1
<b>MERIDIAN RANCH</b>	DATE	DATE	DATE
WINDINGWALK FLAT MERIDIAN RANCH	NO.	NO.	NO.
STREET AND UTILITY PLANS FUTURE PICKET FENCE WAY + STORM #6	DATE	DATE	DATE
Scale AS SHOWN	25 of 55	55	55
Drawn by LCA	Checked by TAK	Date JUN 2008	DATE



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
66	37.98'	24.50'	88°49'23"
67	37.98'	24.50'	88°49'23"

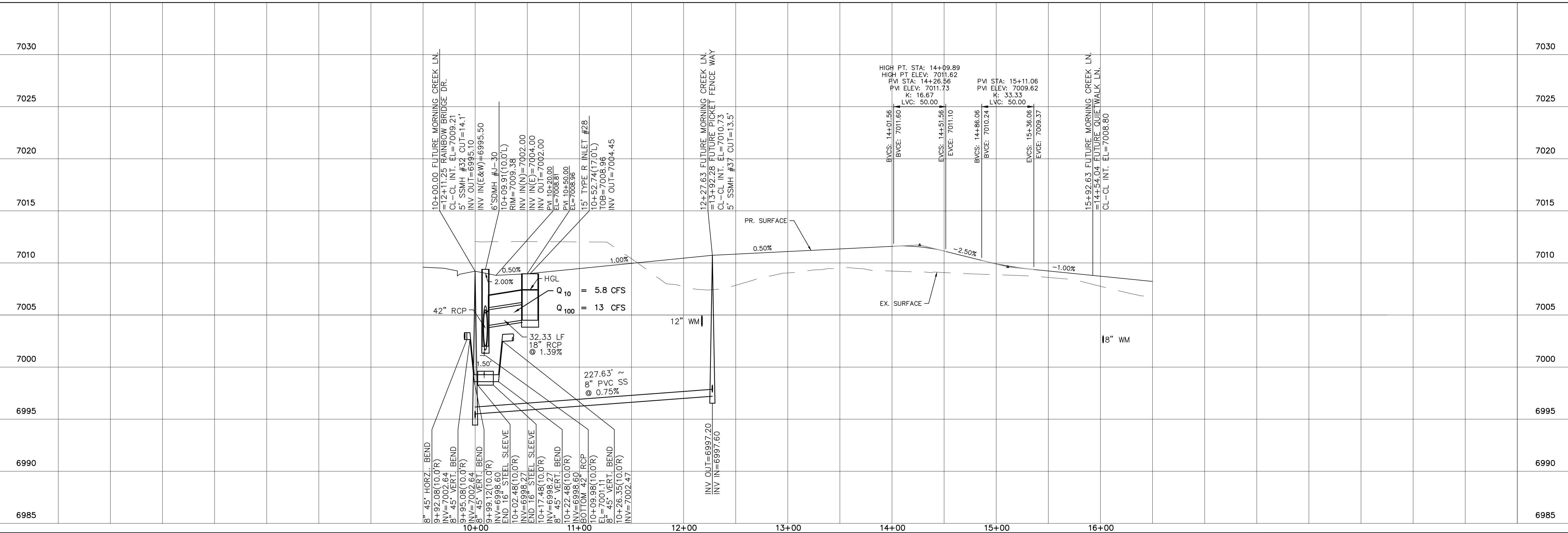
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



# FUTURE MORNING CREEK LN.

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

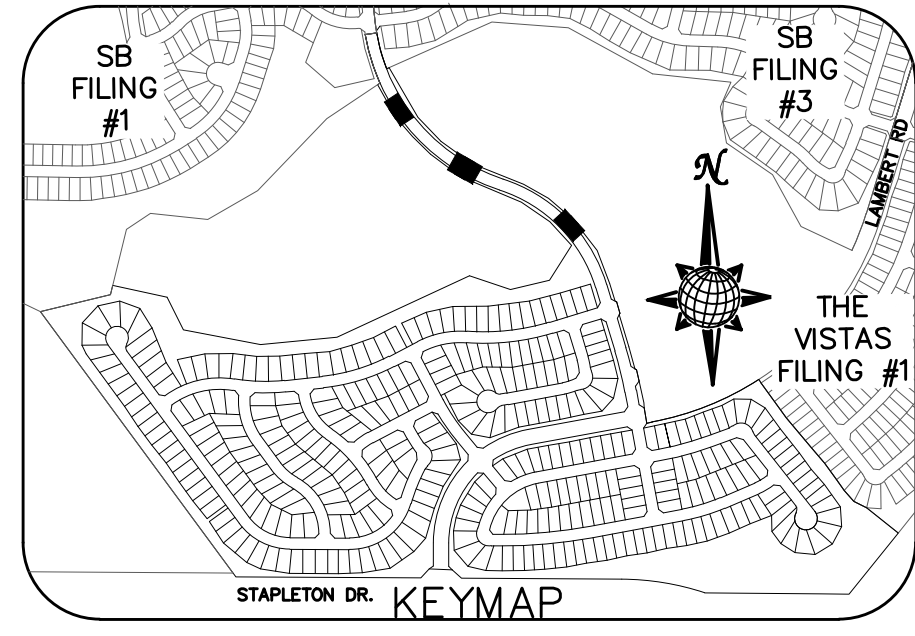
# 12" WATER MAIN



Scale	AS SHOWN	26 of 55	
Drawn by	LOG	Checked by	TAK
Date	JUN 2018		
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS FUTURE MORNING CREEK LN. + 12" WATER MAIN			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
No.	Revisions	Date	Appr.

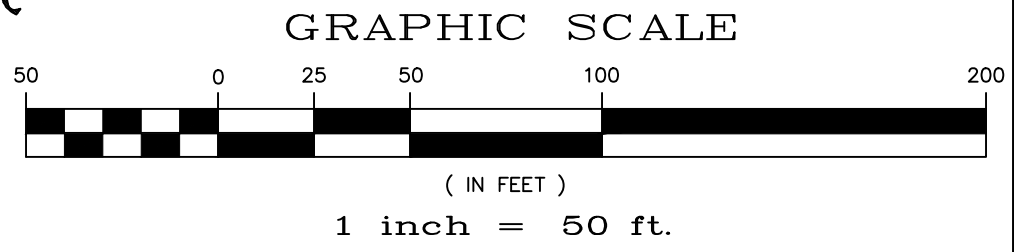
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

= 7072.55  
 = 7072.21  
 = 7071.88



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
68	37.27'	24.50'	87°09'04"
69	37.27'	24.50'	87°09'04"
70	39.56'	24.50'	92°31'14"
71	39.56'	24.50'	92°31'14"
72	37.50'	24.50'	87°41'48"
73	37.50'	24.50'	87°41'48"
74	37.50'	24.50'	87°41'48"
75	37.50'	24.50'	87°41'48"

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



**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)

# ENCLAVE SCENIC WAY

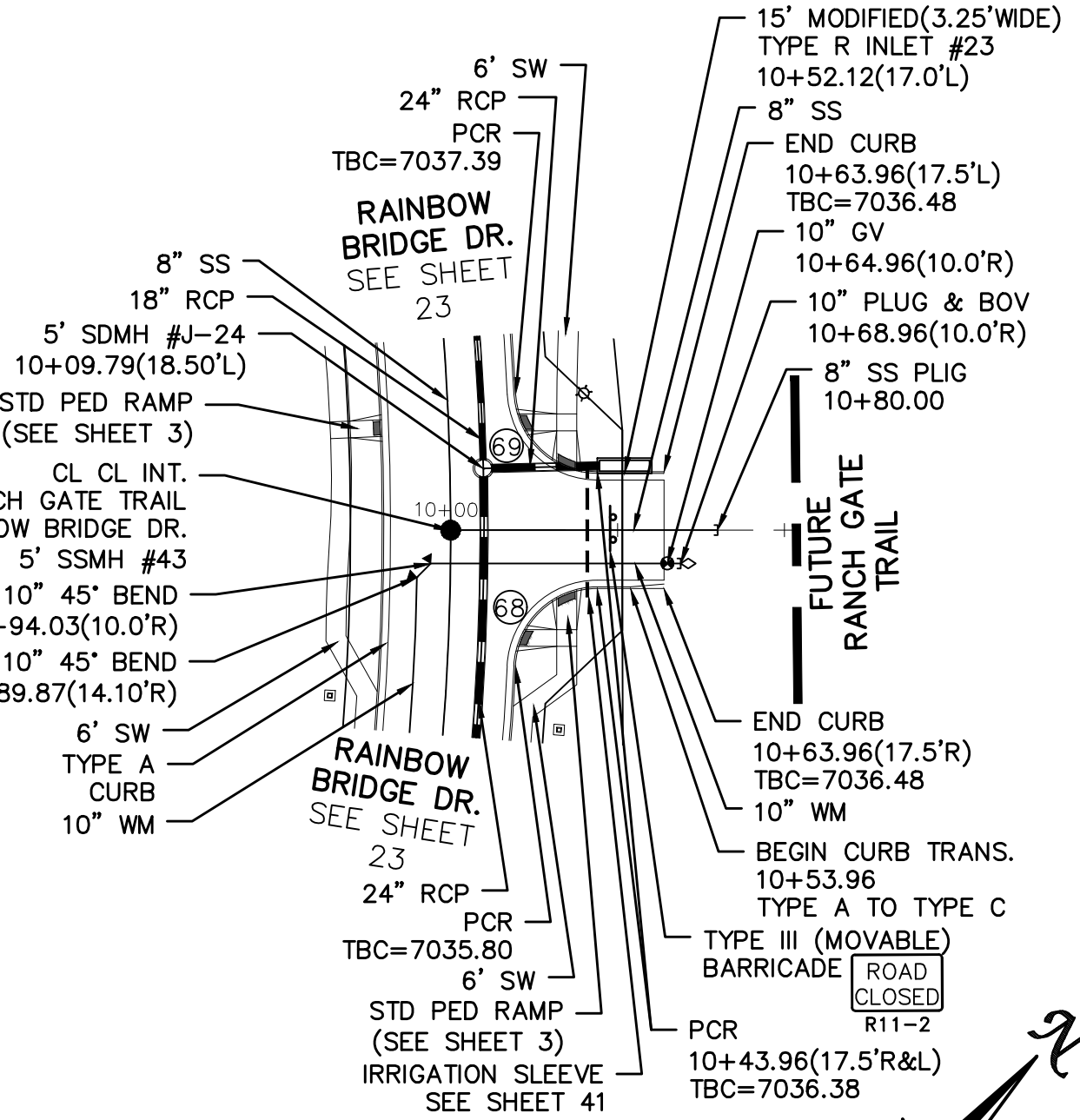
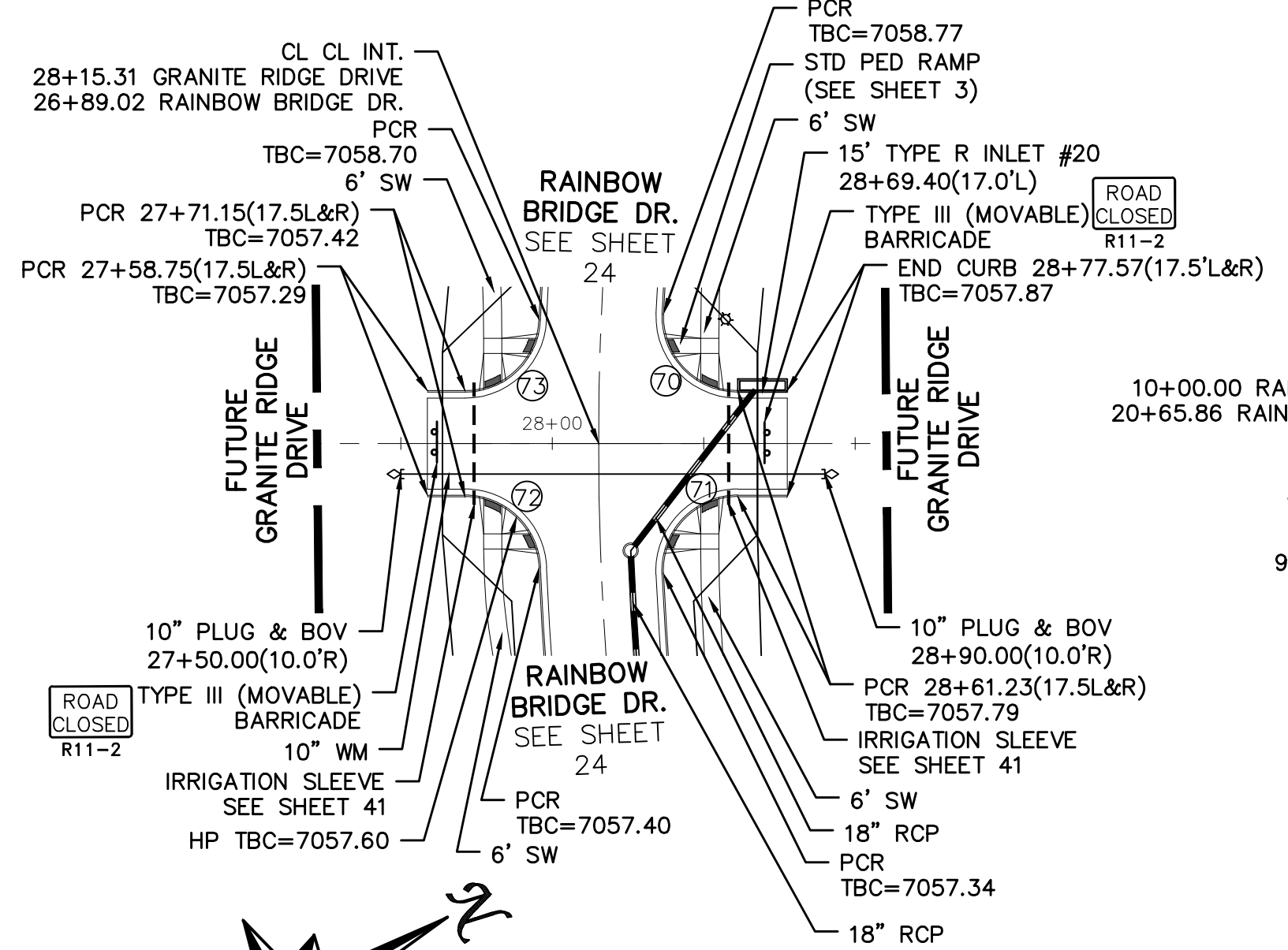
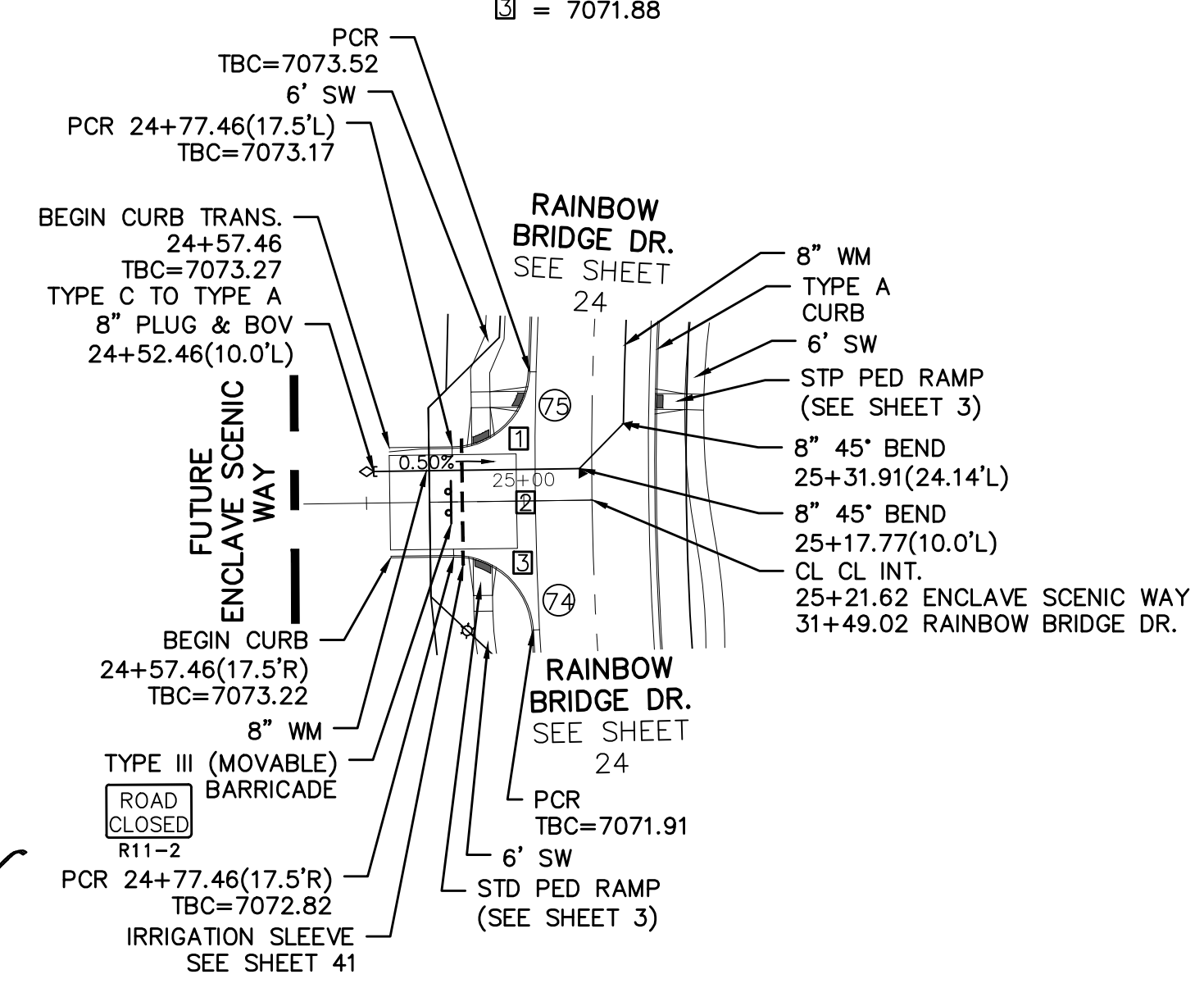
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

# GRANITE RIDGE DR.

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

# RANCH GATE TRL.

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



No.	Revisions	Date	Appr.	Date

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

**MERIDIAN RANCH**

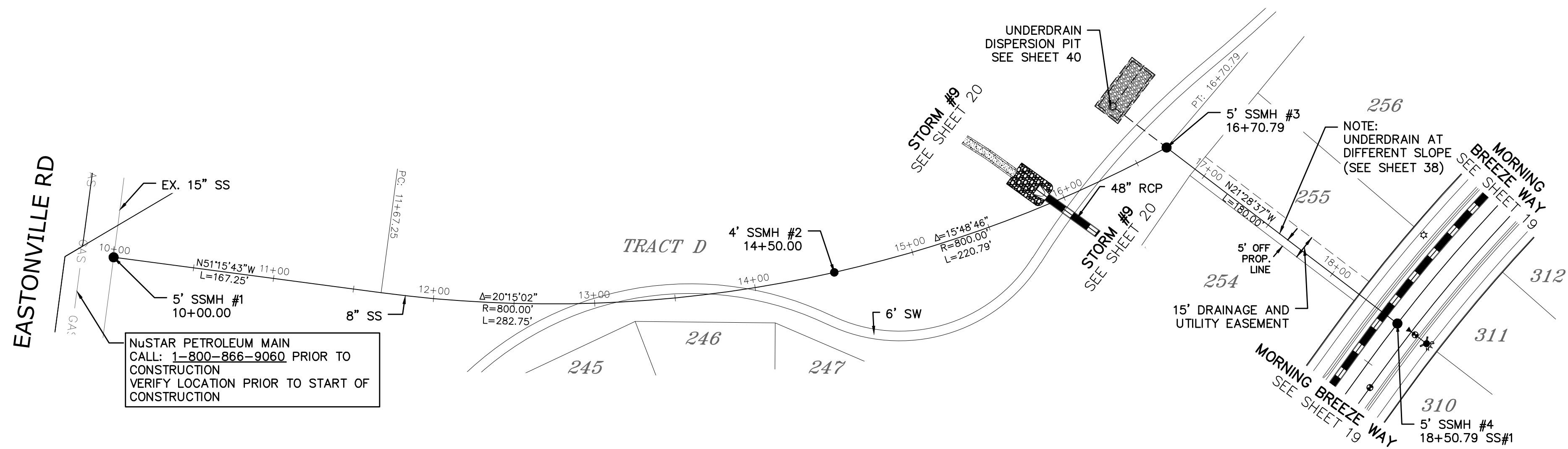
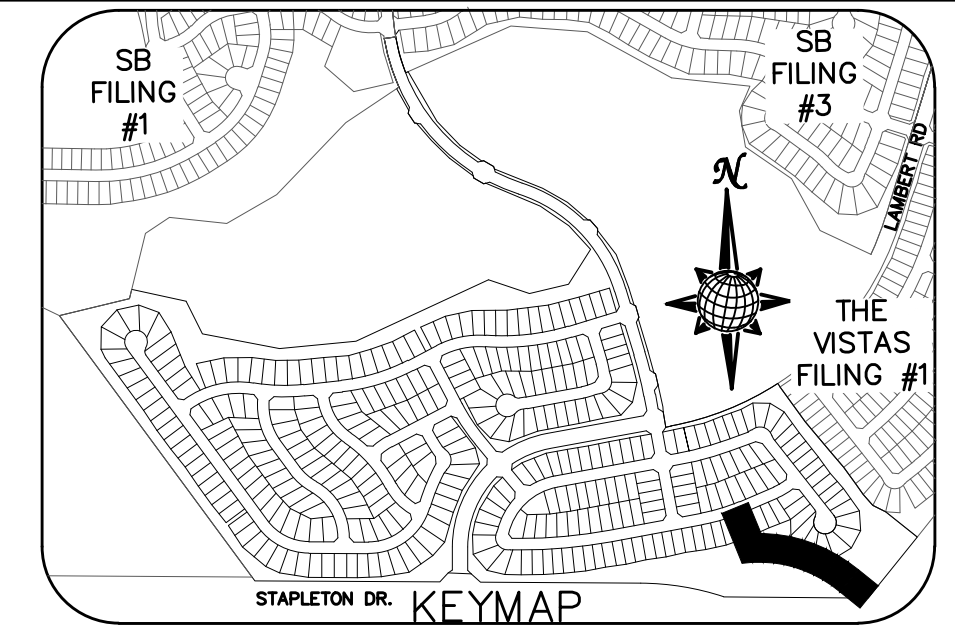
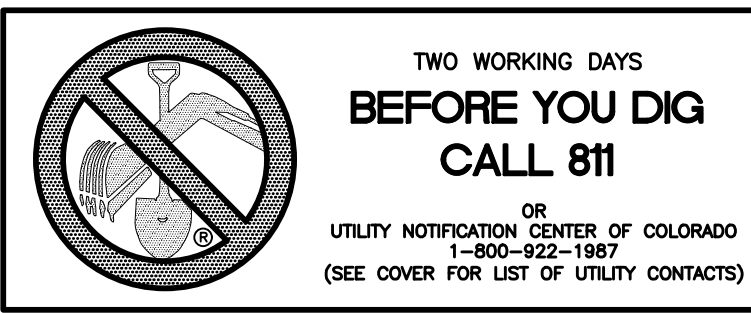
WINDINGWALK FLAT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
RAINBOW BRIDGE INTERSECTIONS

Drawn by  
Checked by  
Date

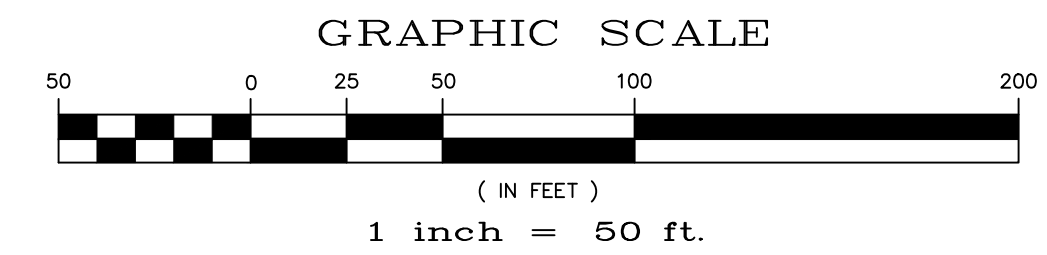
Scale  
AS SHOWN  
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JAN 2018

7100	7100	7075	7075	7055	7055
7095	7095	7070	7070	7050	7050
7090	7090	7065	7065	7045	7045
7085	7085	7060	7060	7040	7040
7080	7080	7055	7055	7035	7035
7075	7075	7050	7050	7030	7030
7070	7070	7045	7045	7025	7025
7065	7065	7040	7040	7020	7020
7060	7060	7035	7035	7015	7015
7055	7055	7030	7030	7010	7010



# SEWER #1

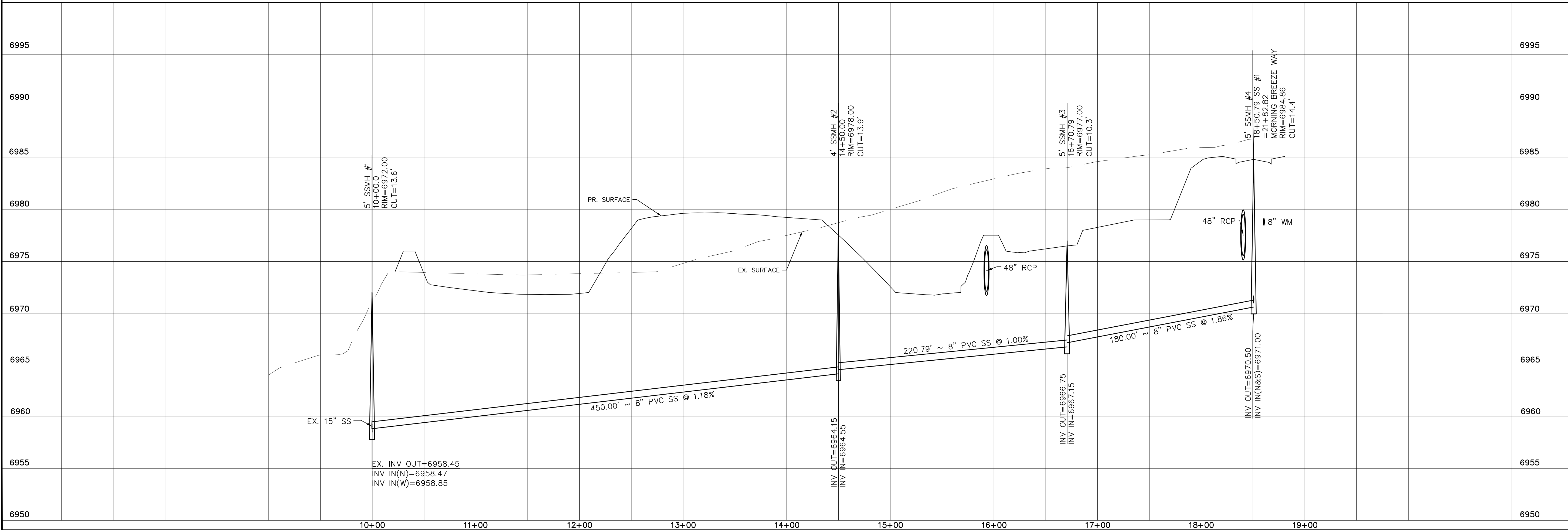


No.	Revisions	Date	Appr.	Date

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

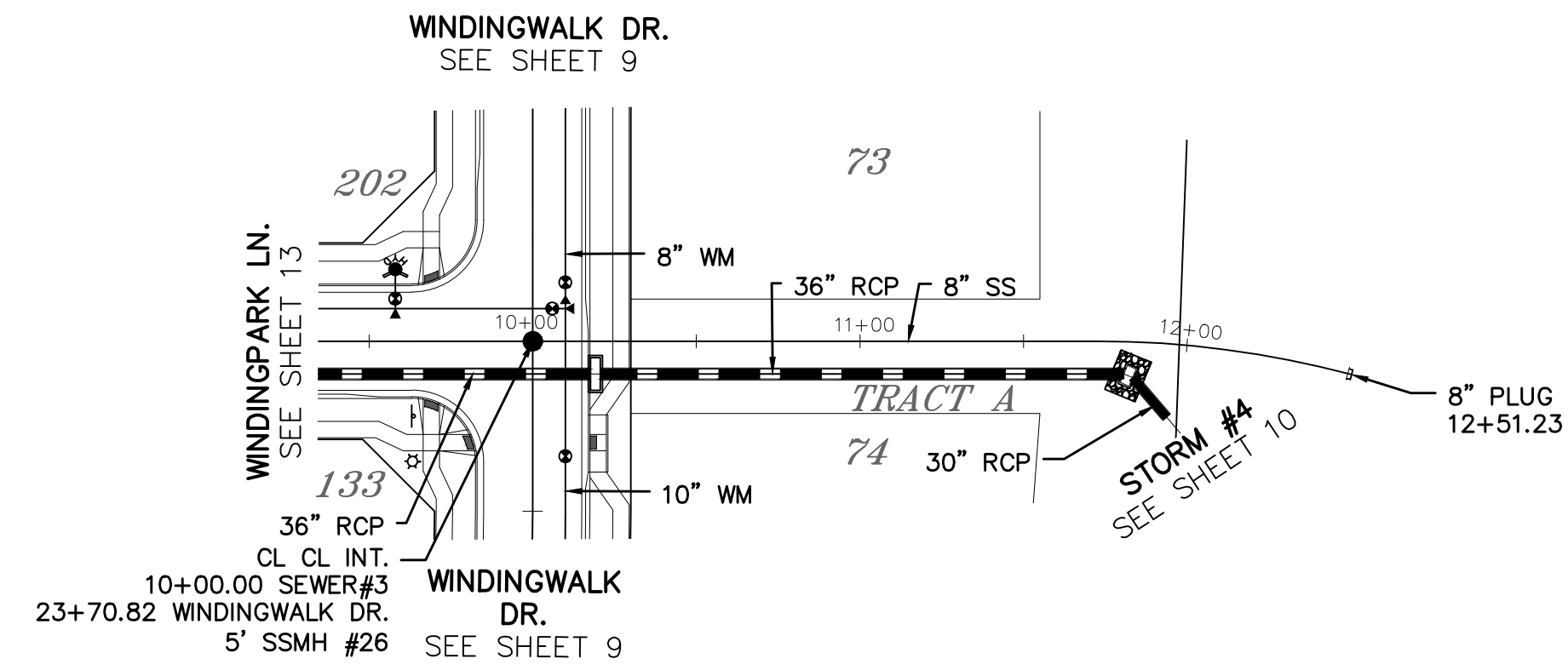
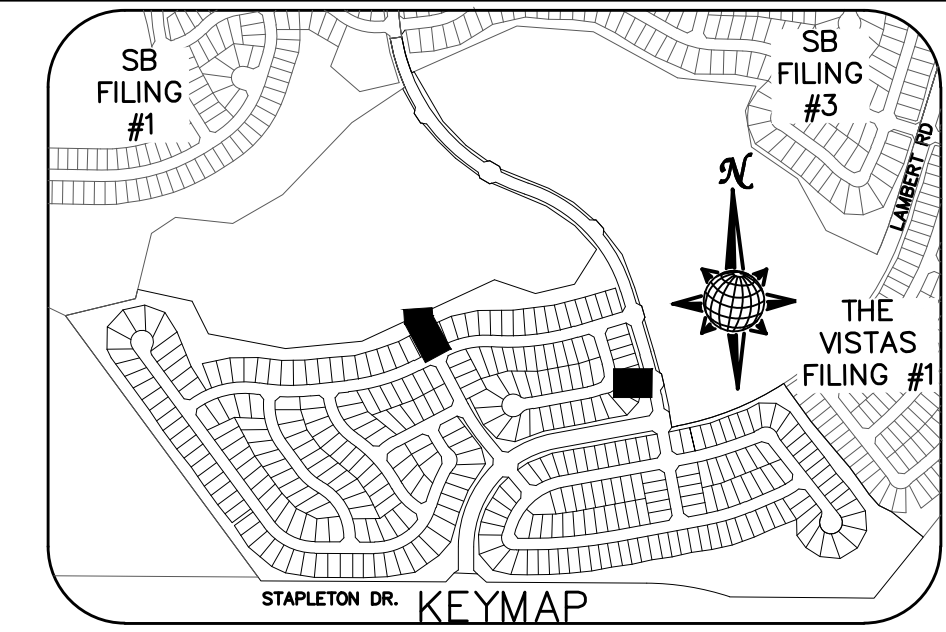
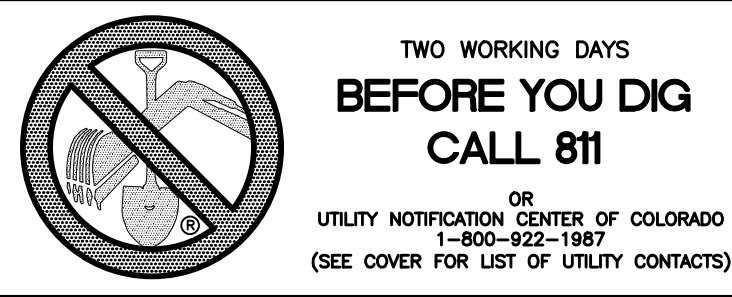


WINDINGWALK FLAT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 SEWER #1

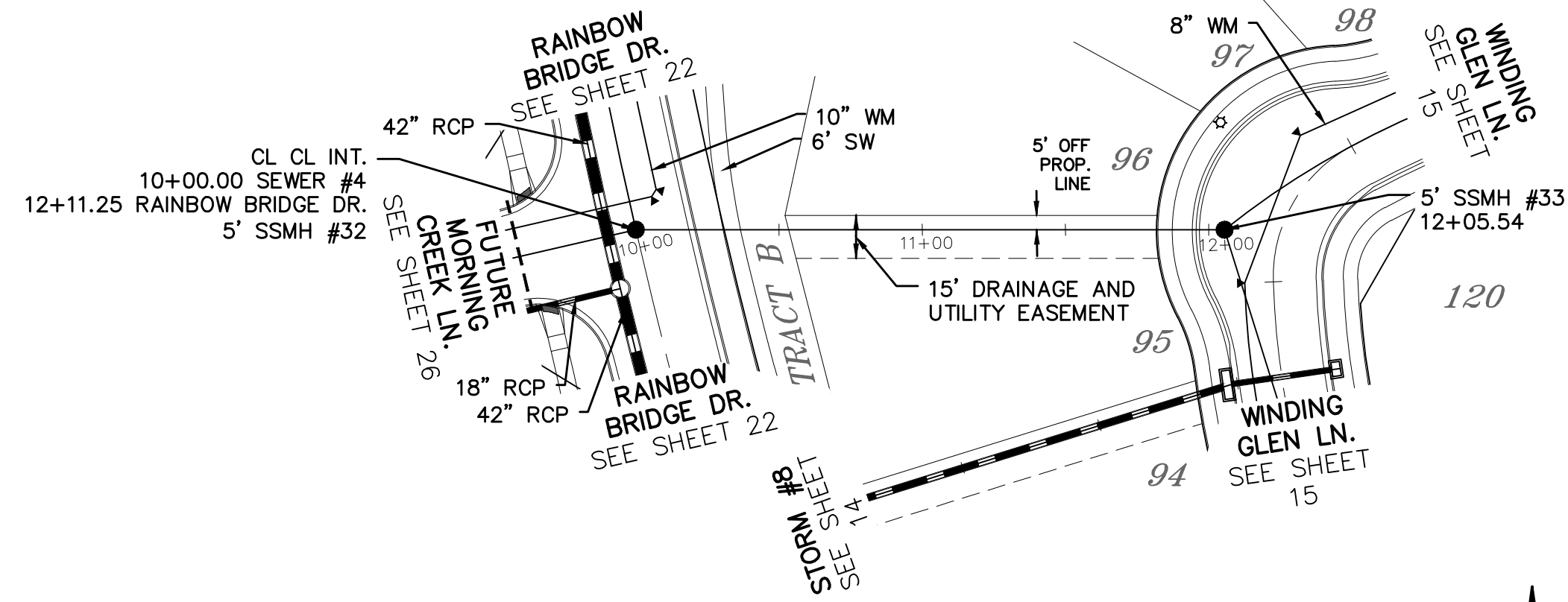


Drawn by  
 LG  
 Checked by  
 TAK  
 Date  
 JUN 2018

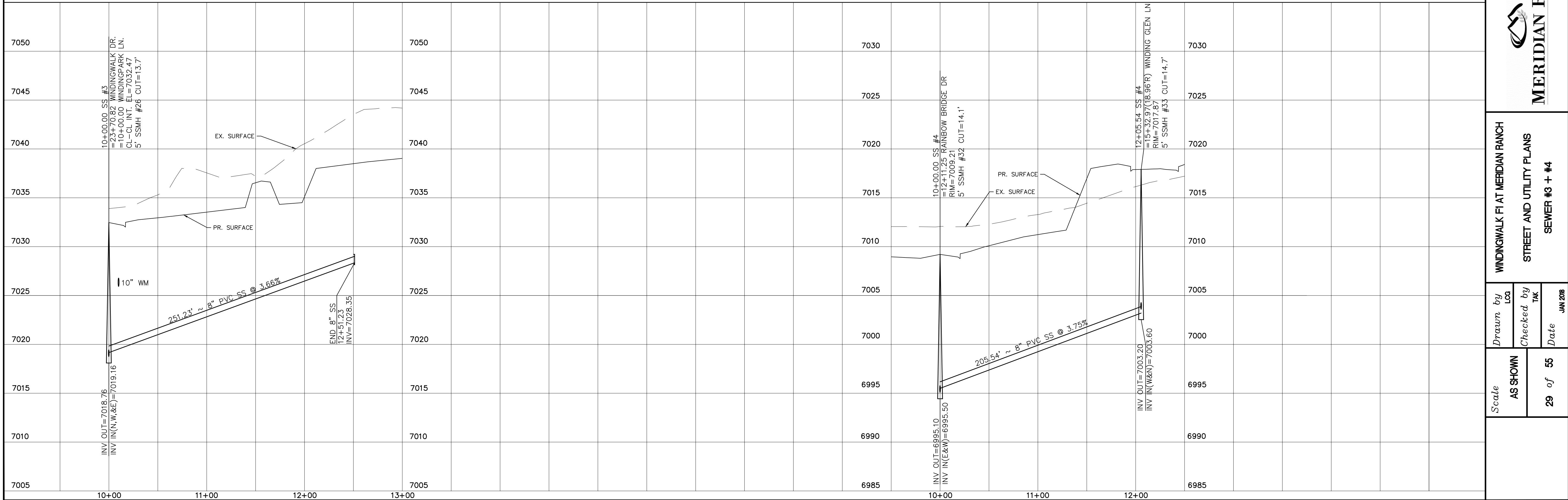
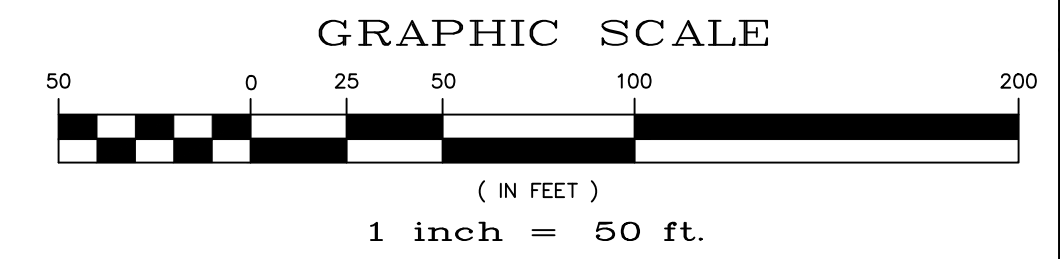
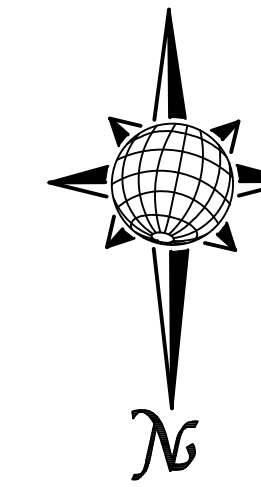
Scale  
 AS SHOWN  
 28 of 55



# SEWER #3

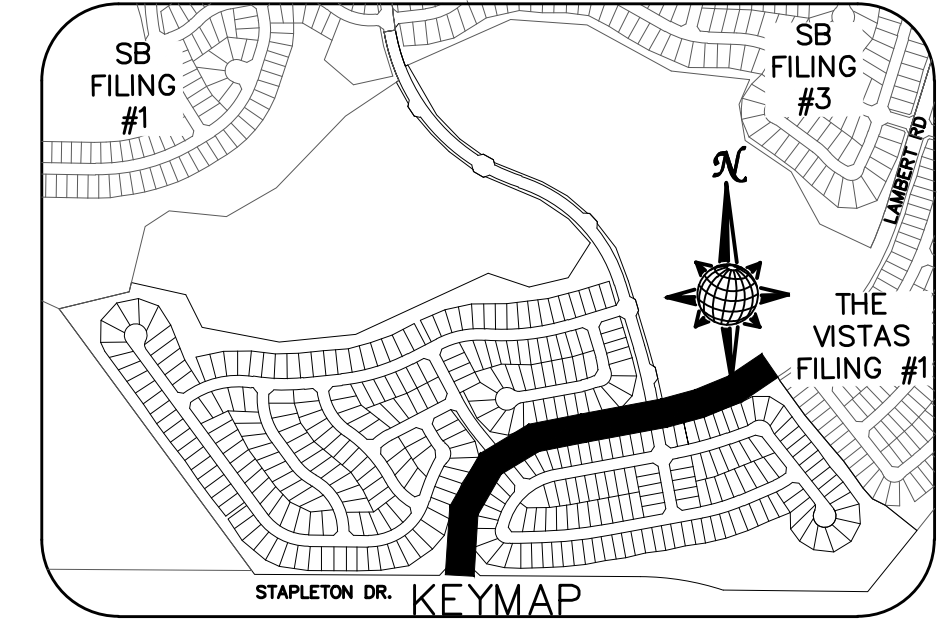
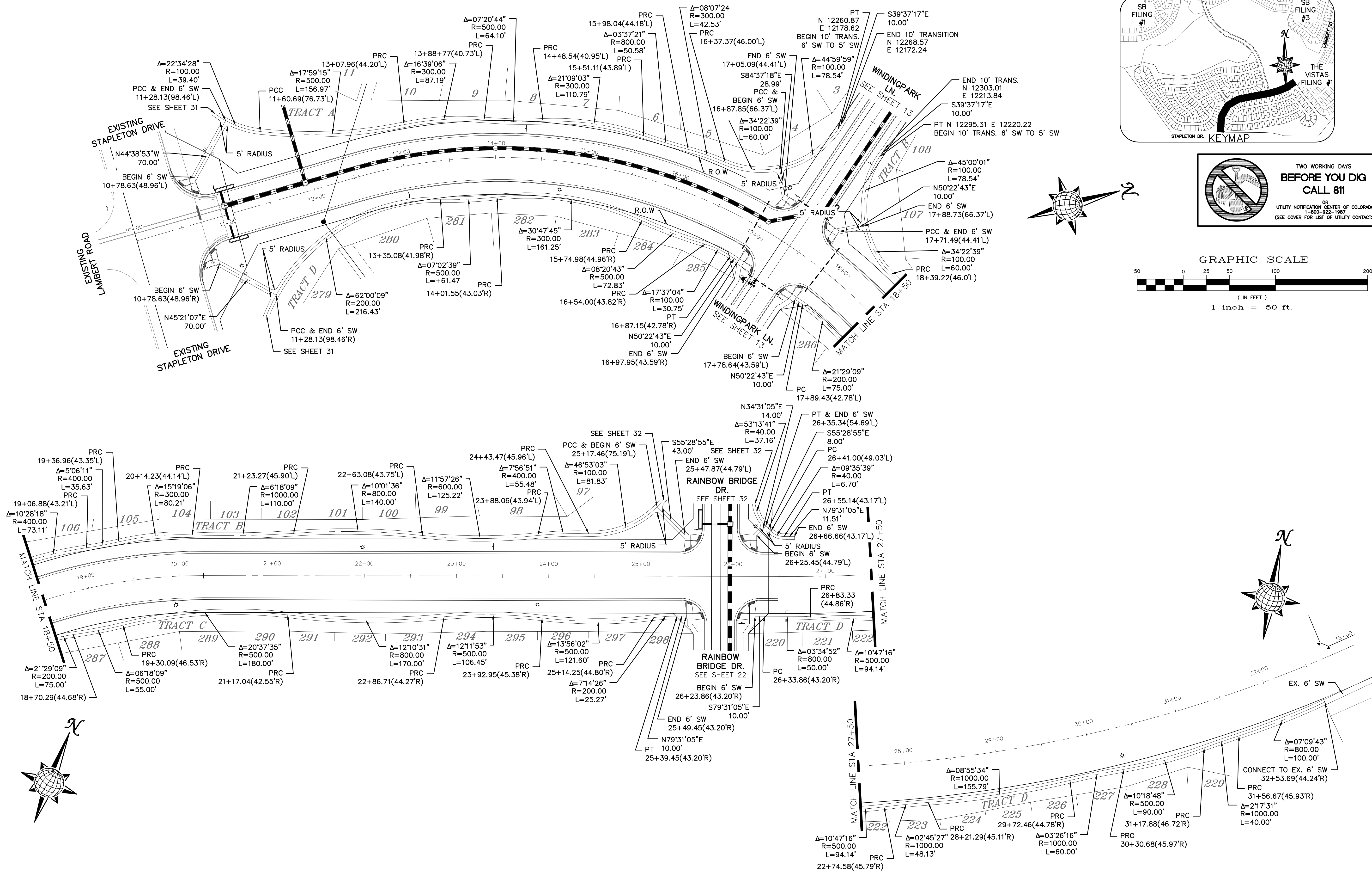


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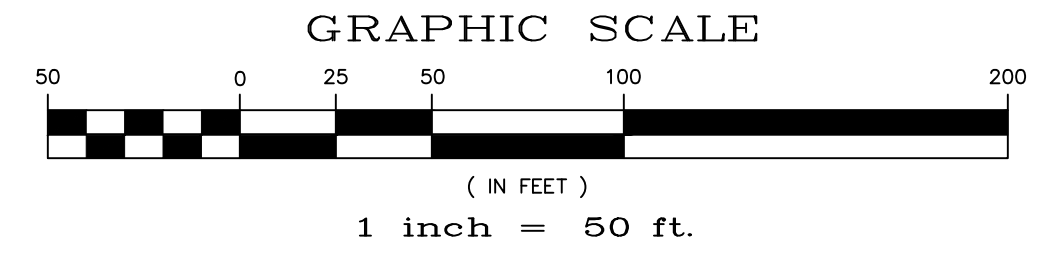


Scale	AS SHOWN	29 of 55	Date	JAN 2018
Drawn by	LOG	Checked by	TAK	
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS SEWER #3 + #4				
<b>MERIDIAN RANCH</b>				
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
No.	Revisions	Date	Instr.	Appr.

# LAMBERT RD. 6' SIDEWALK PLAN

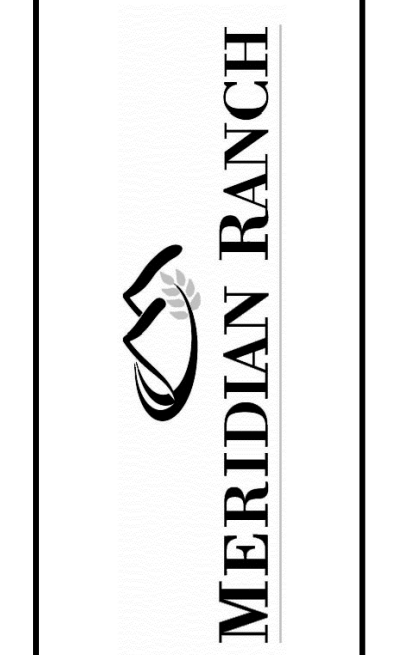


TWO WORKING DAYS  
**BEFORE YOU DIG CALL 811**  
 OR  
 UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-922-1987  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)



No.	Revisions	Date	Invt.	Appr.	Date

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

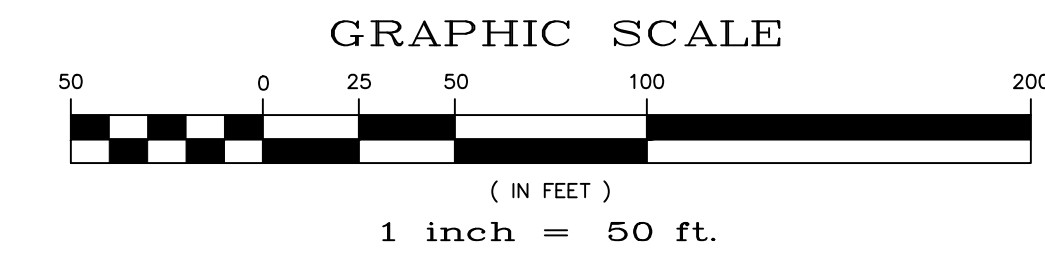
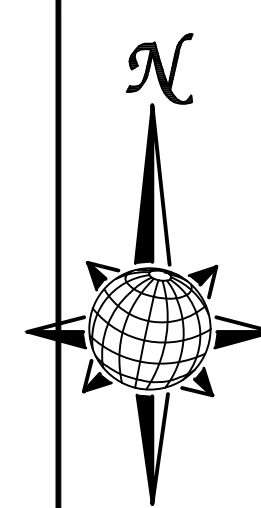
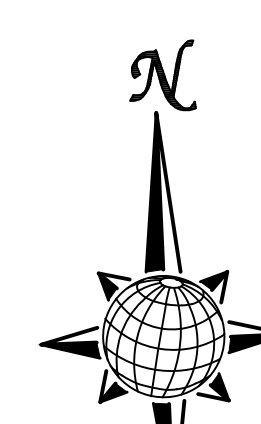
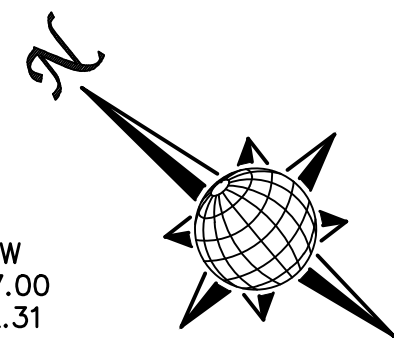
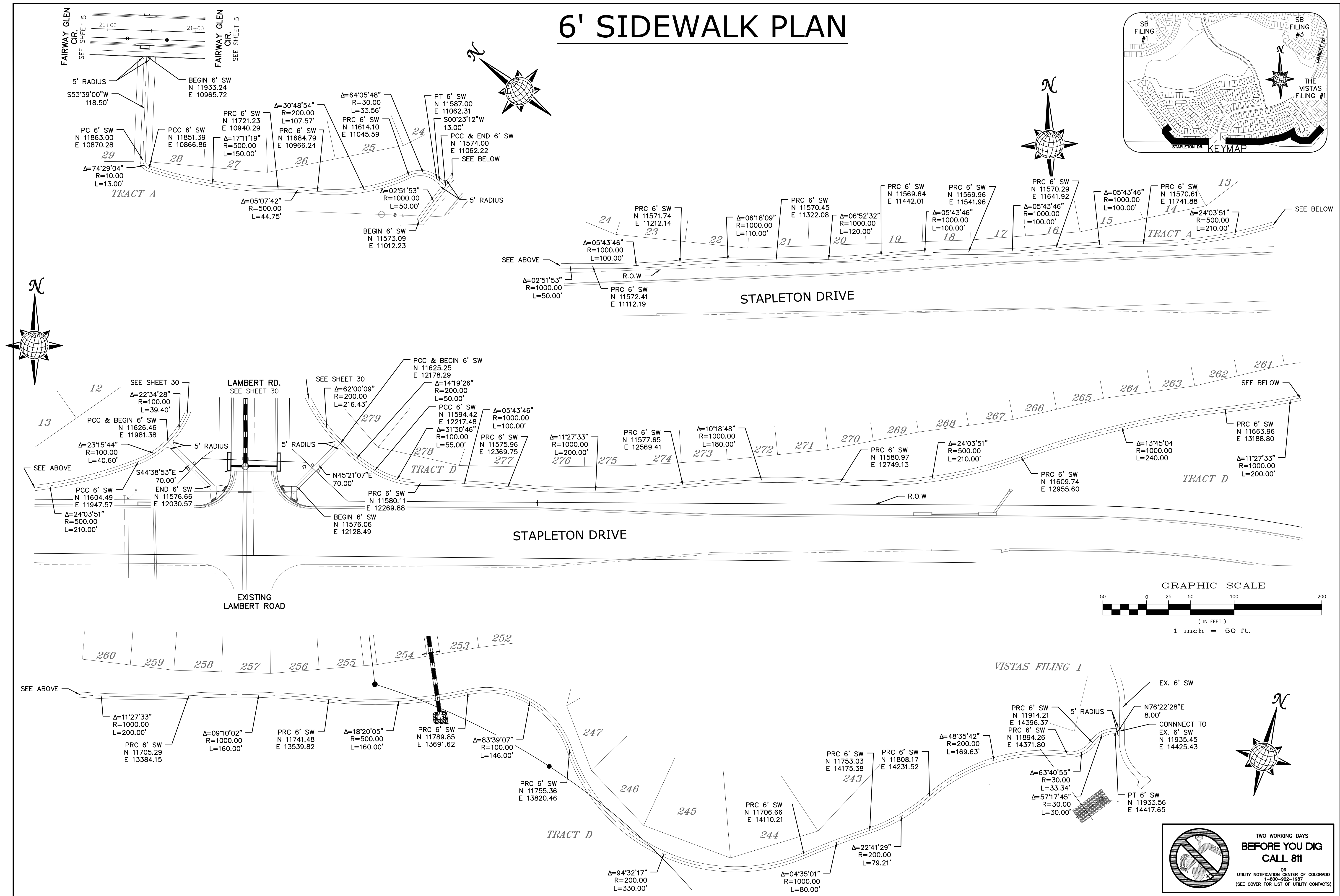
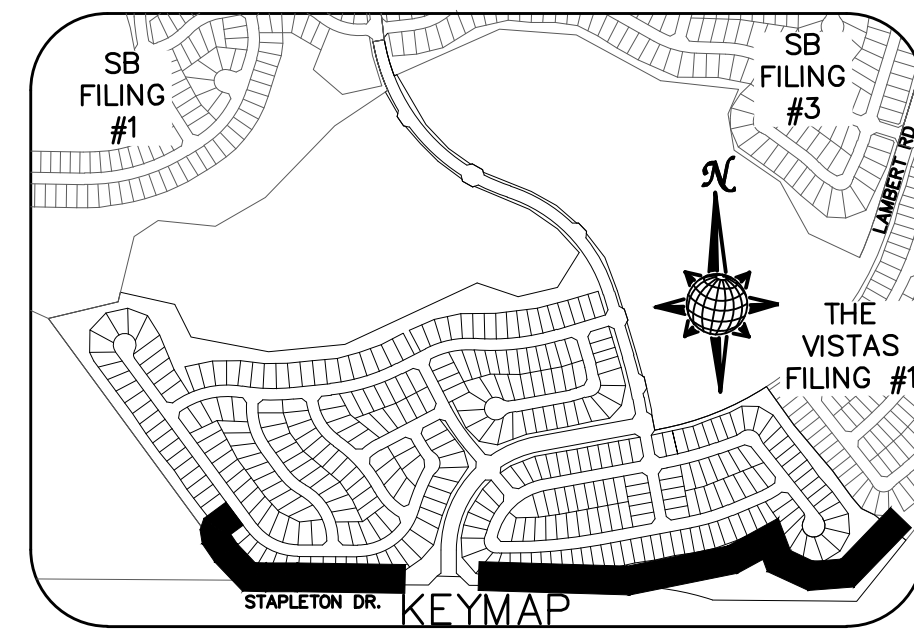


WINDINGWALK FL AT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 SIDEWALK PLAN

Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2008

Scale 30 of 55

# 6' SIDEWALK PLAN



No.	Revisions	Date	Appr.	Date

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



WINDINGWALK FLAT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 SIDEWALK PLAN

Drawn by	LOG	Checked by	TAK	Date	JAN 2018
Scale	AS SHOWN	Sheet	55	of	55

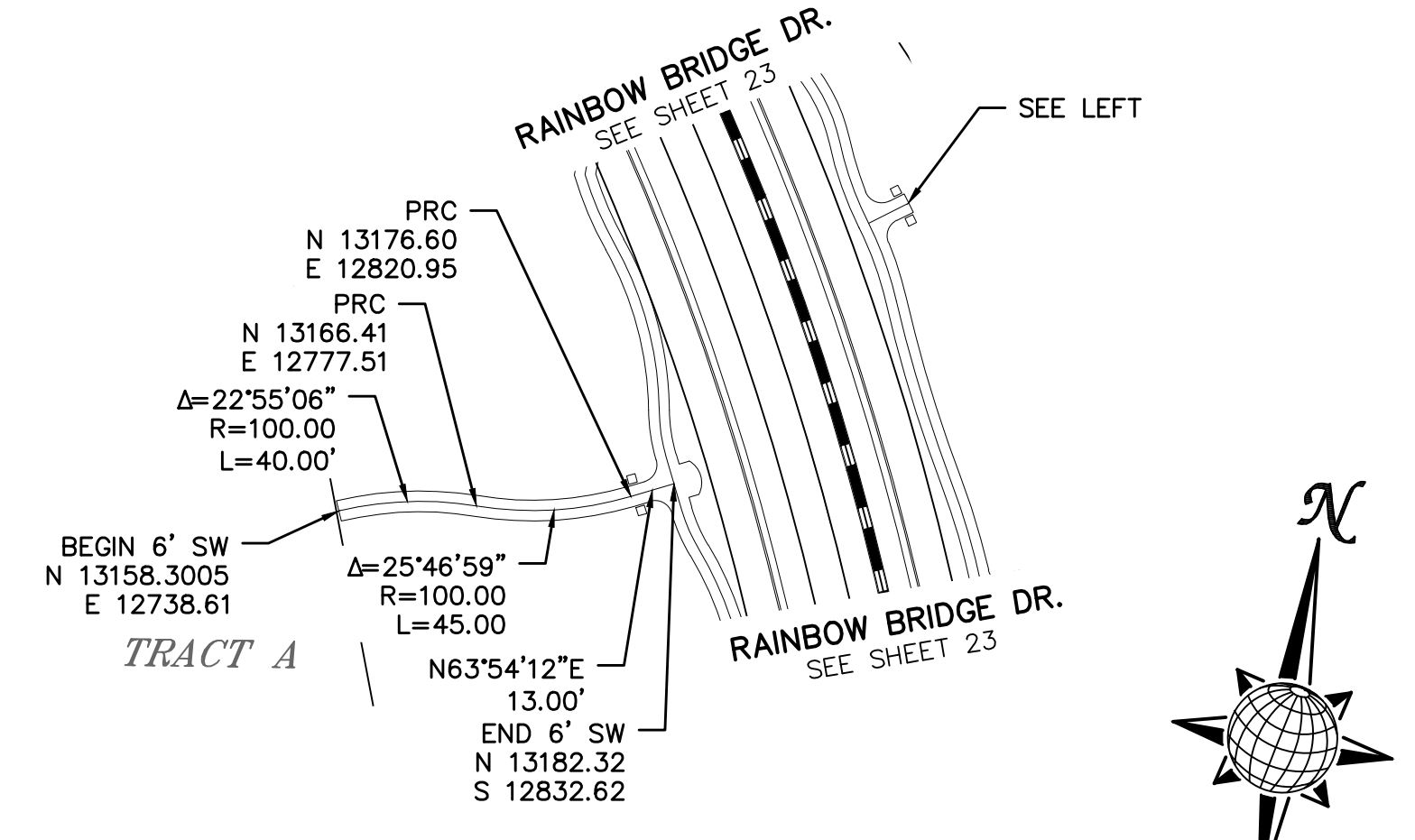
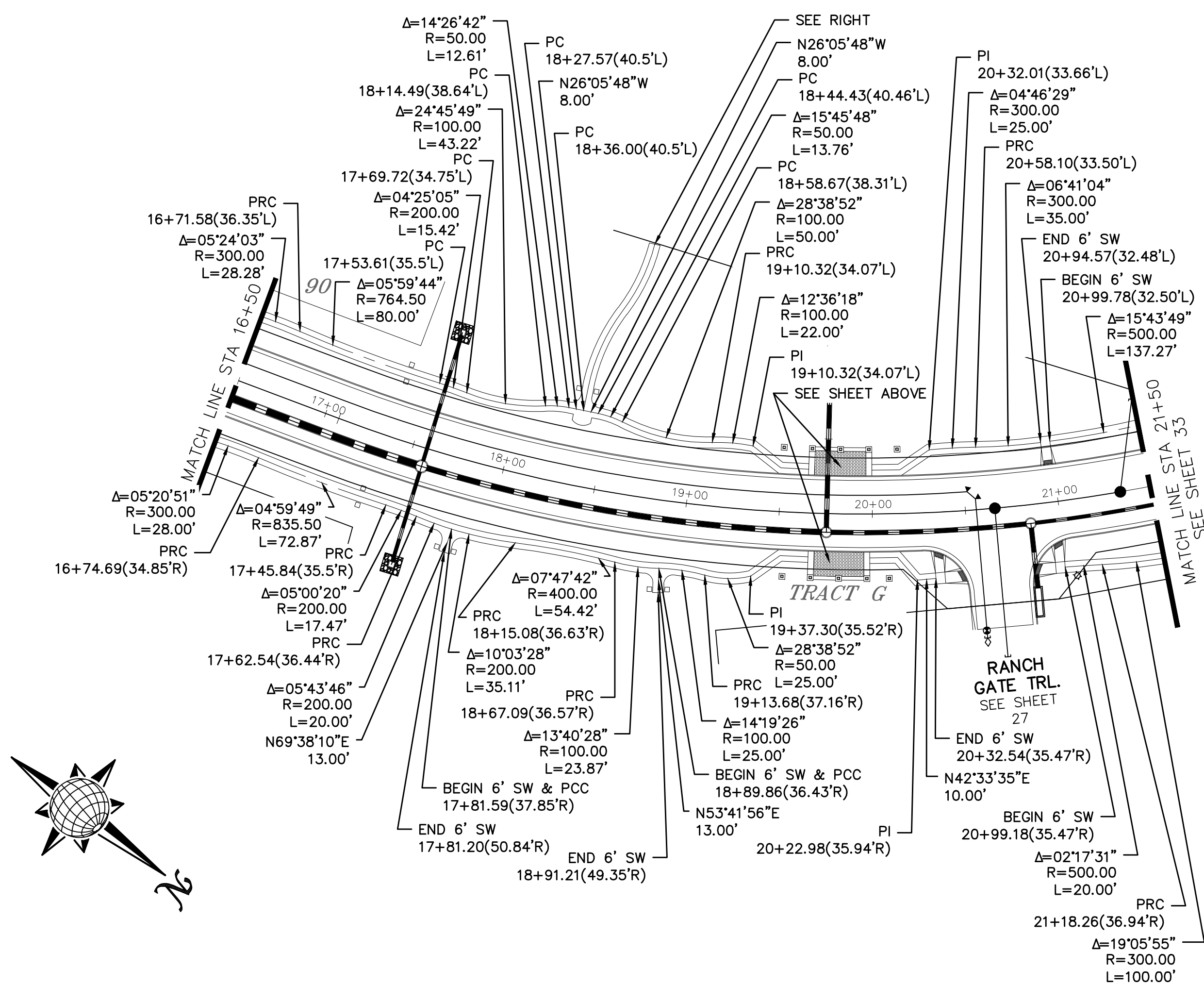
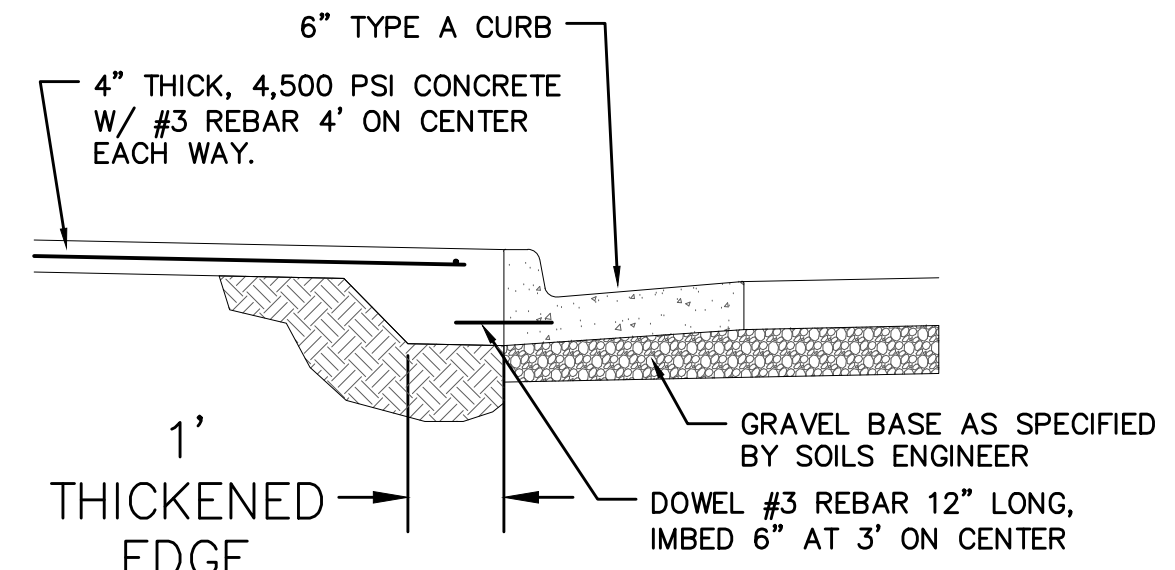
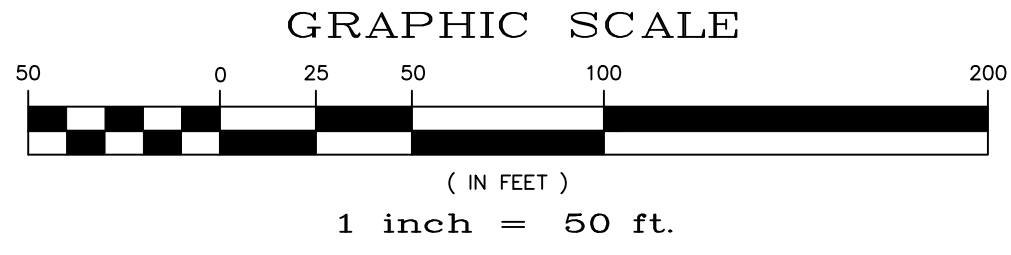
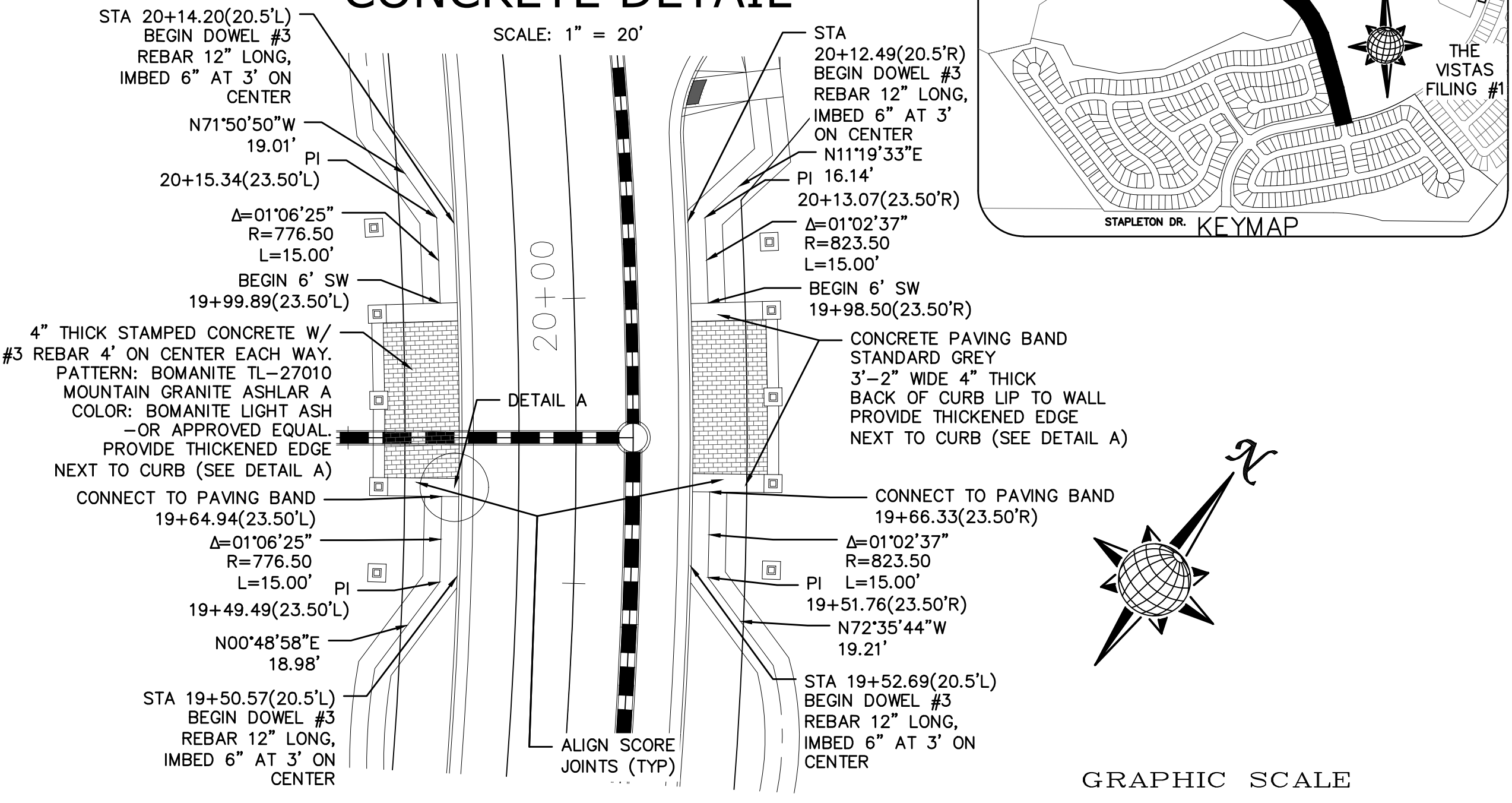
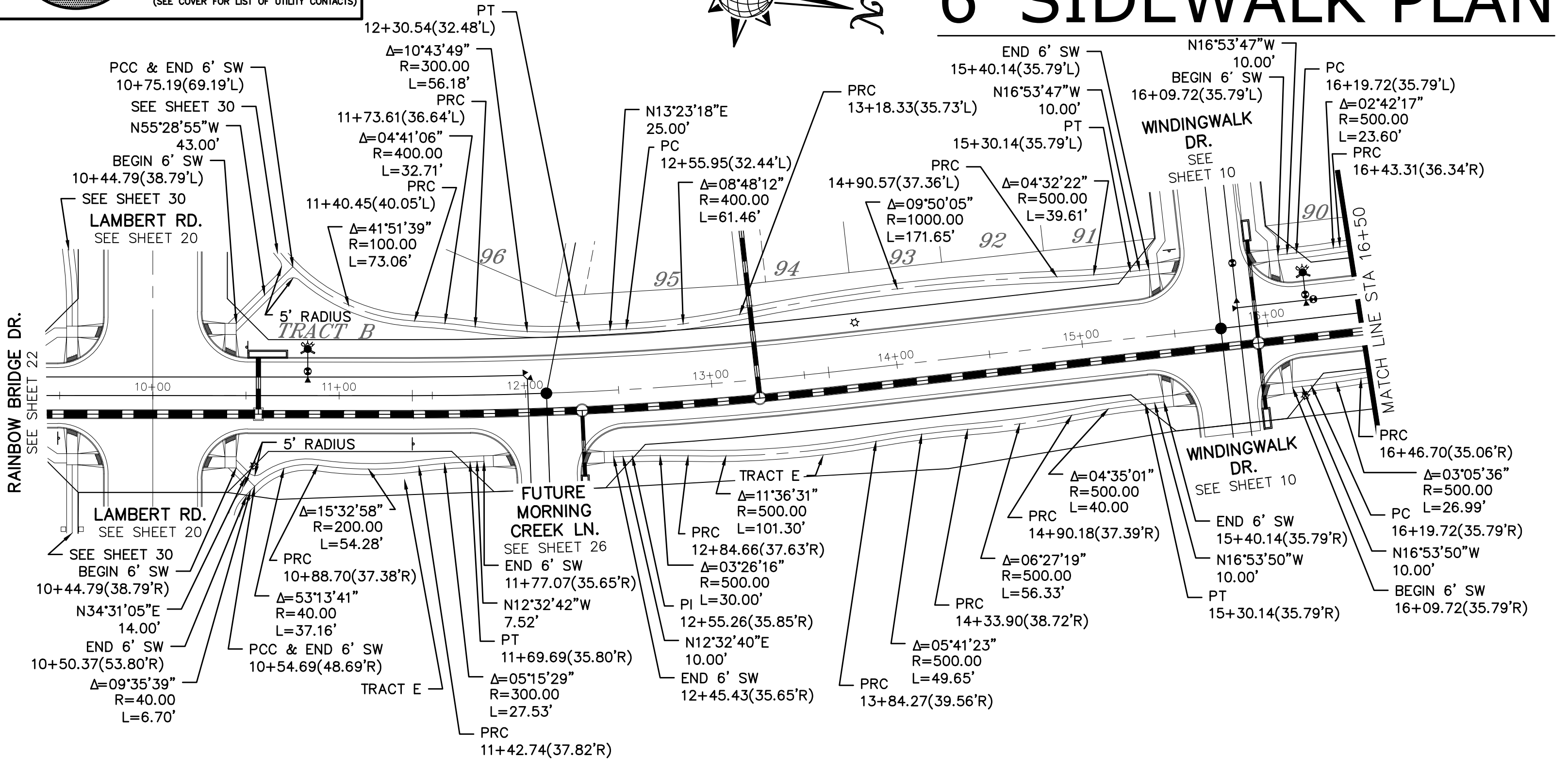
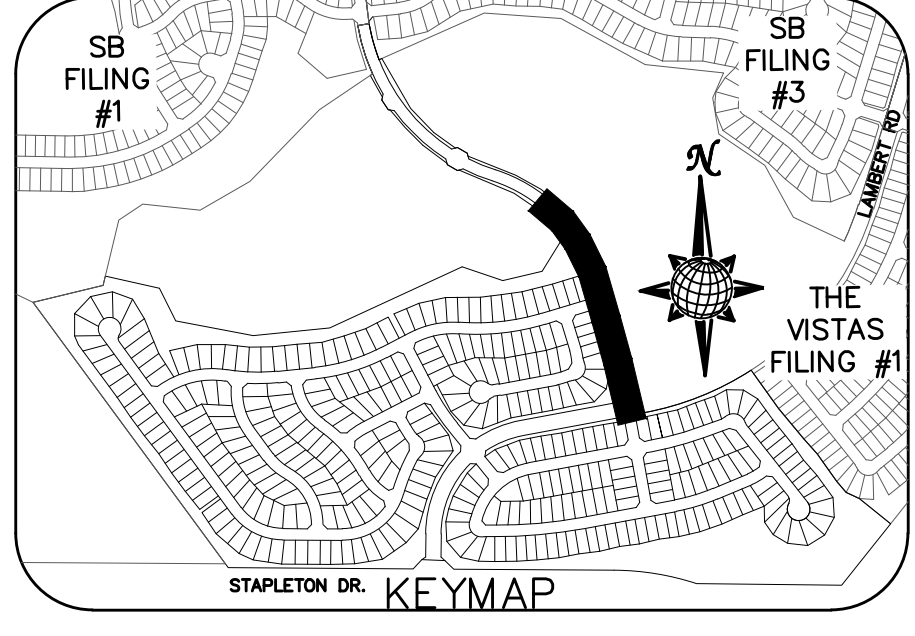
**TWO WORKING DAYS  
 BEFORE YOU DIG  
 CALL 811**

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

**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)

# RAINBOW BRIDGE DR. 6' SIDEWALK PLAN

## STAMPED CONCRETE DETAIL



No.	Revisions	Date	Appr.	Date

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



WINDINGWALK FLAT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 SIDEWALK PLAN

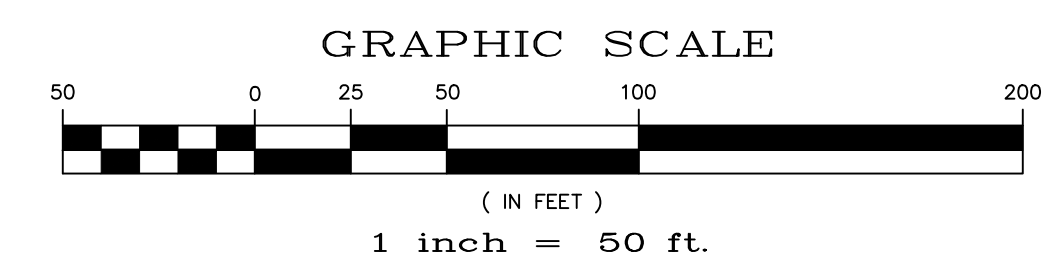
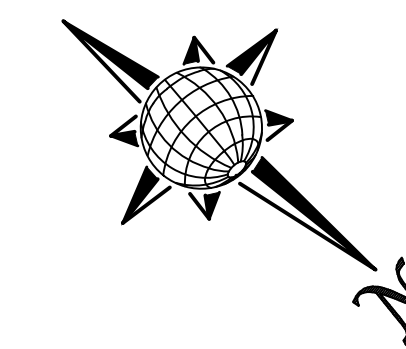
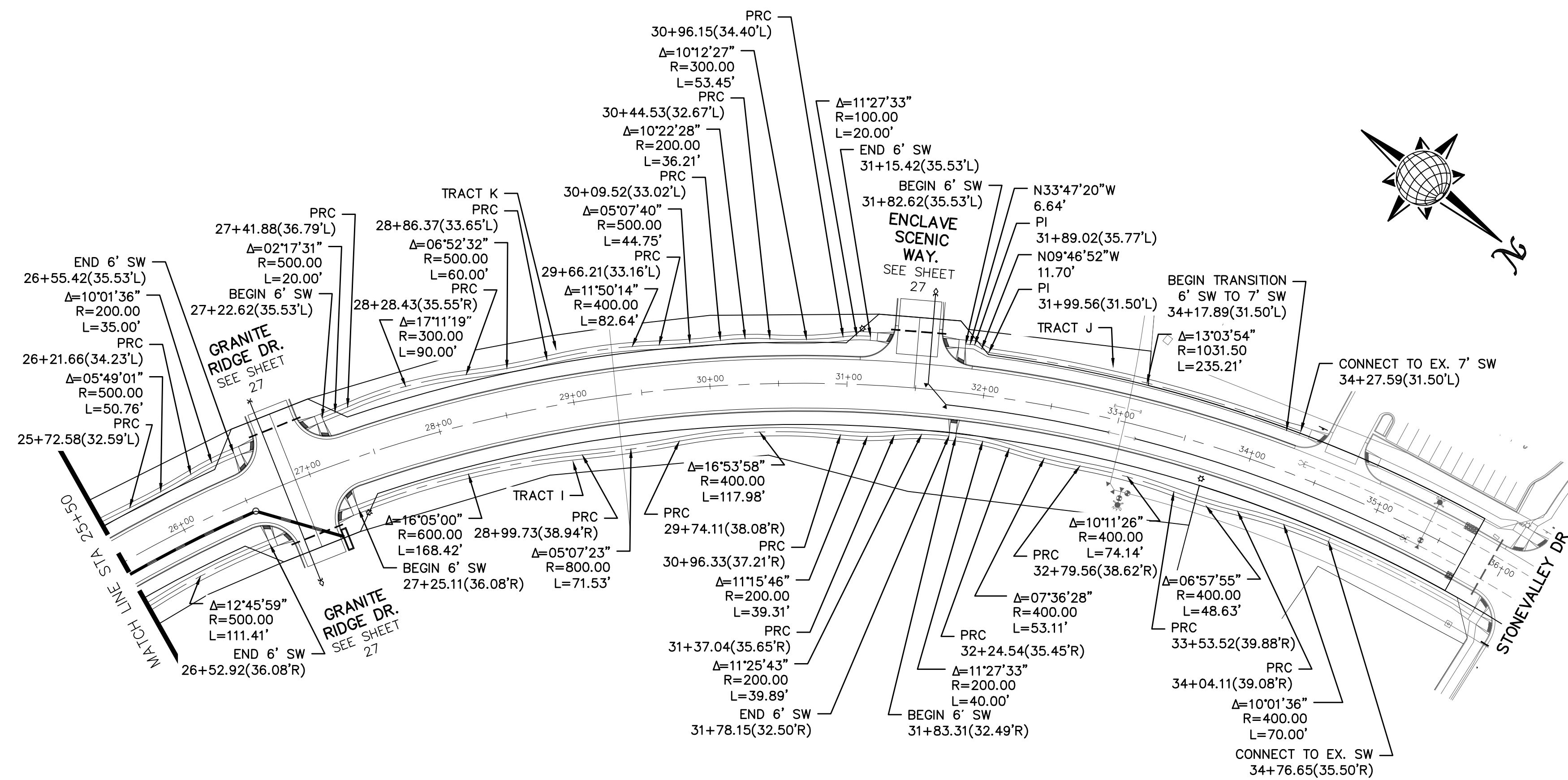
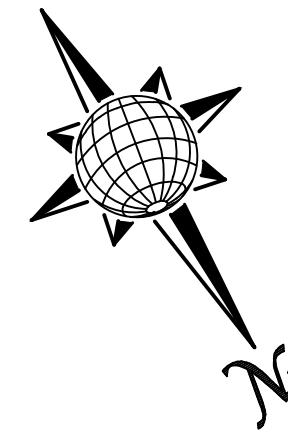
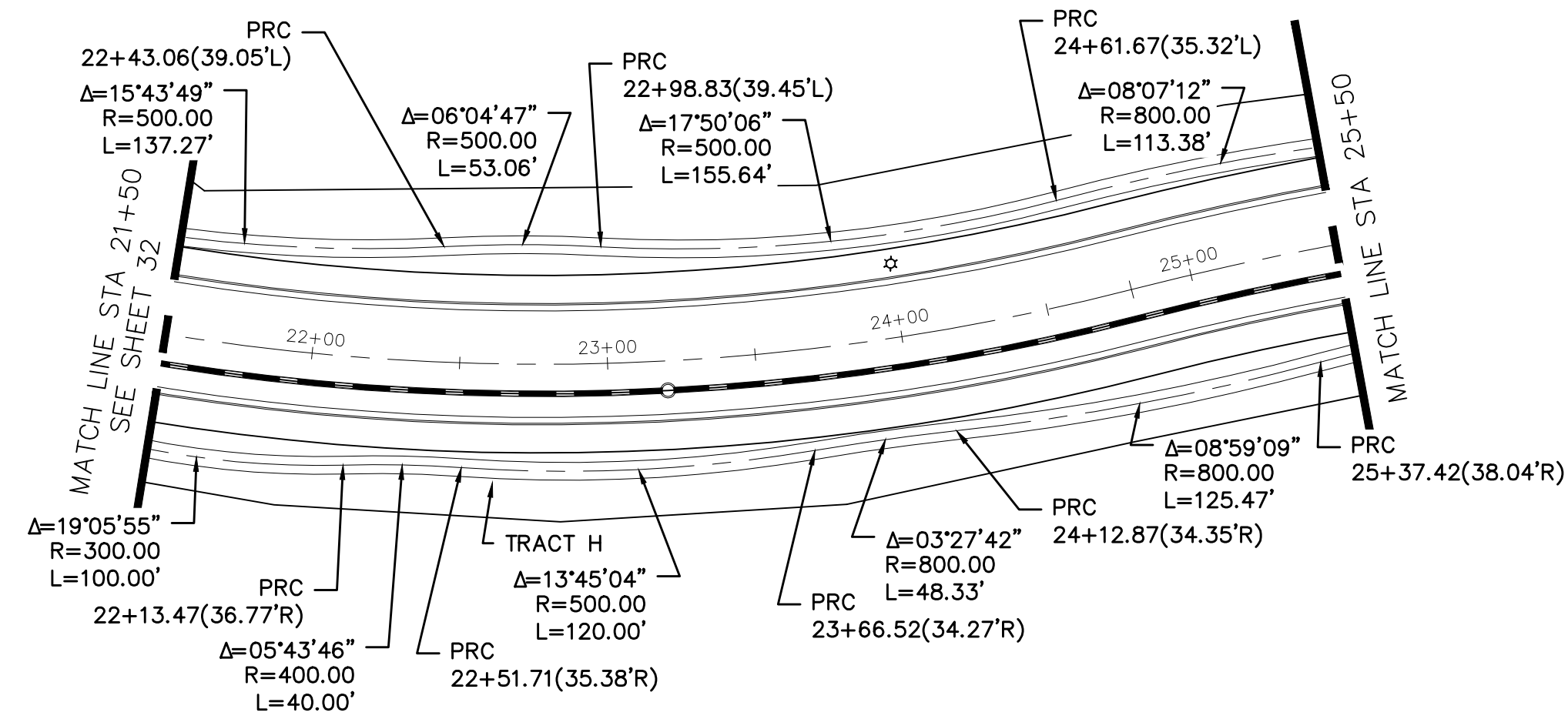
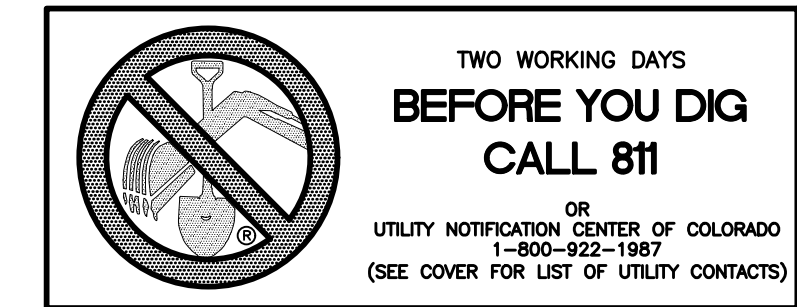
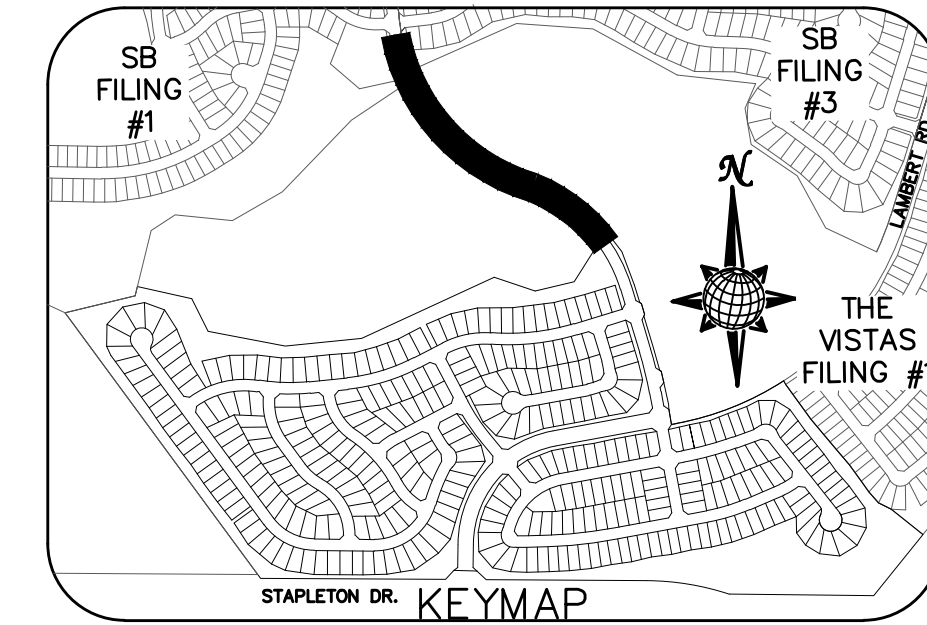
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 Checked by  
 Date

Scale  
 AS SHOWN  
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JAN 2018



# RAINBOW BRIDGE DR. 6' SIDEWALK PLAN



Drawn by	LOG	Checked by	TAK	Date	JAN 2018
Scale	AS SHOWN	33	of	55	
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS SIDEWALK PLAN					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
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)					
No.	Revisions	Date	Instr.	Appr.	Date

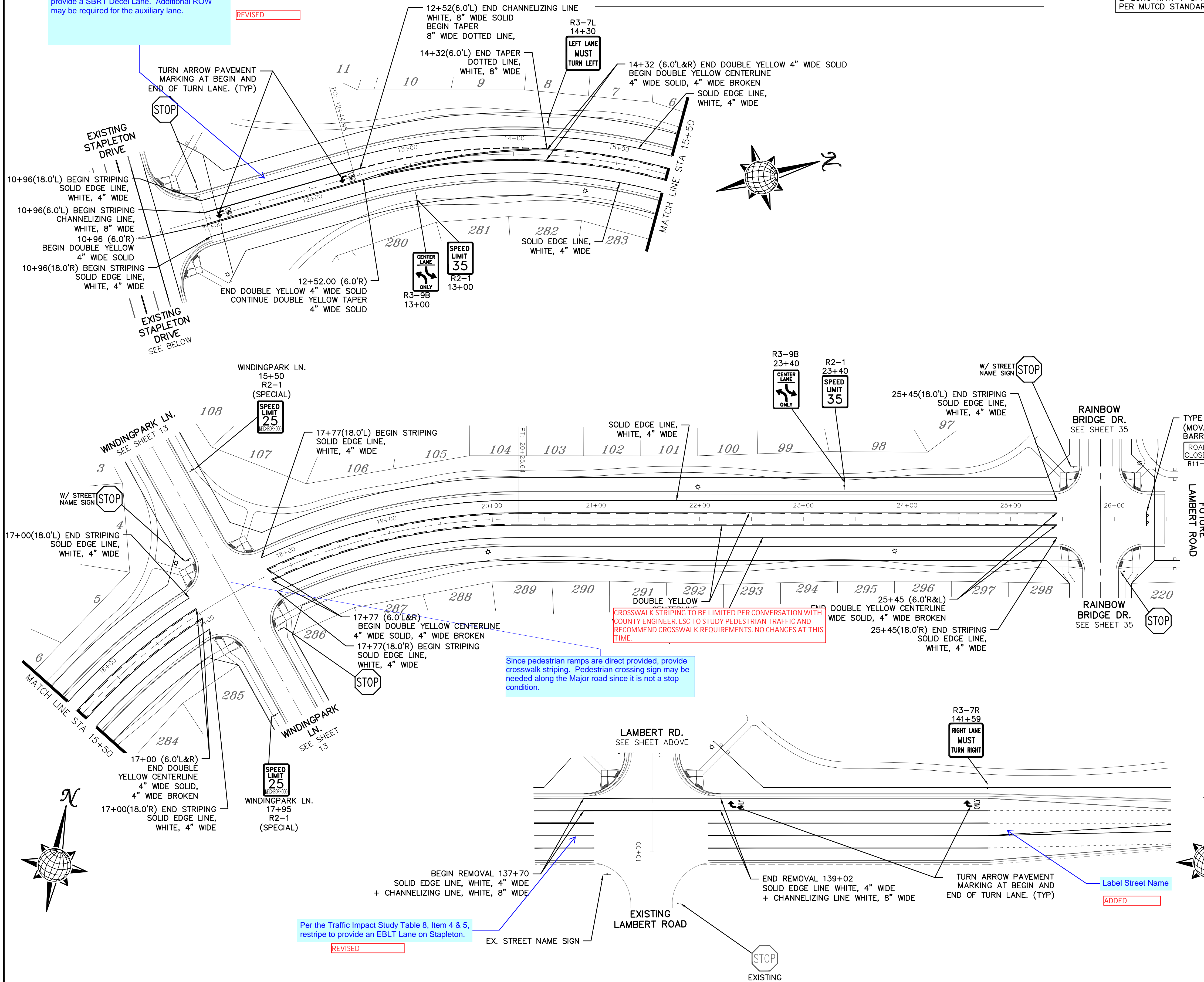
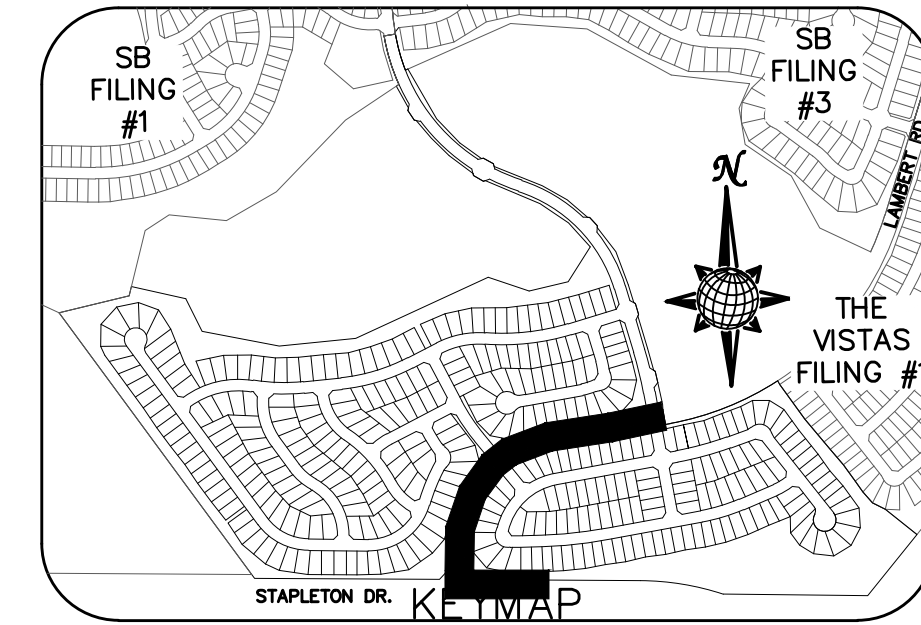
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# SIGNAGE AND STRIPING

Per the Traffic Impact Study Table 8, Item 3, provide a SBRT Decel Lane. Additional ROW may be required for the auxiliary lane.

REVISED

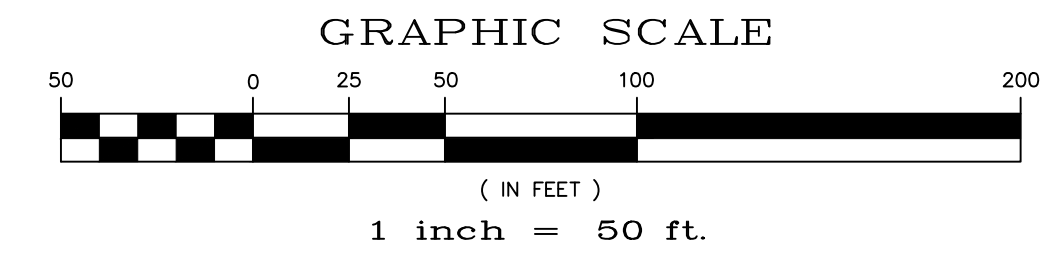
NOTE:  
DOTTED LINES TO BE  
2' LONG WITH 4' SPACING  
PER MUTCD STANDARD



### 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 DEVELOPMENT SERVICES (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 PUBLIC SERVICE DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

5/1/2013



**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)

CROSSWALK STRIPING TO BE LIMITED PER CONVERSATION WITH COUNTY ENGINEER, LSC TO STUDY PEDESTRIAN TRAFFIC AND RECOMMEND CROSSWALK REQUIREMENTS. NO CHANGES AT THIS TIME.

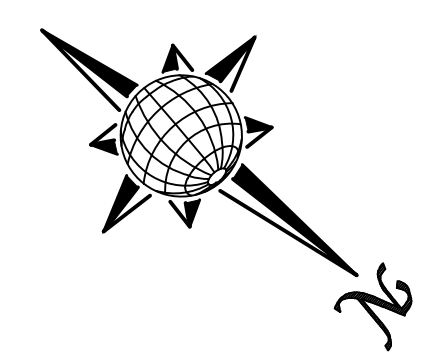
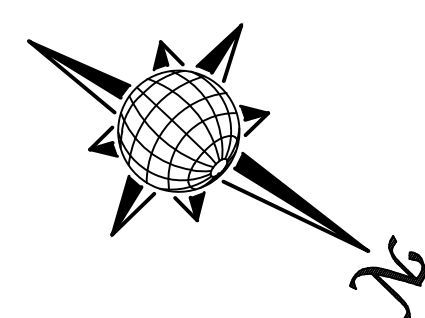
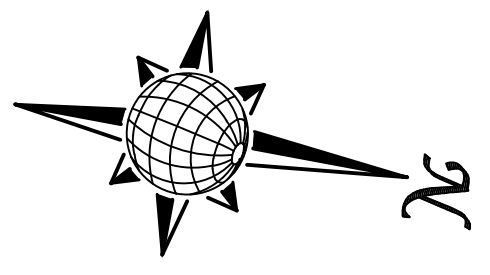
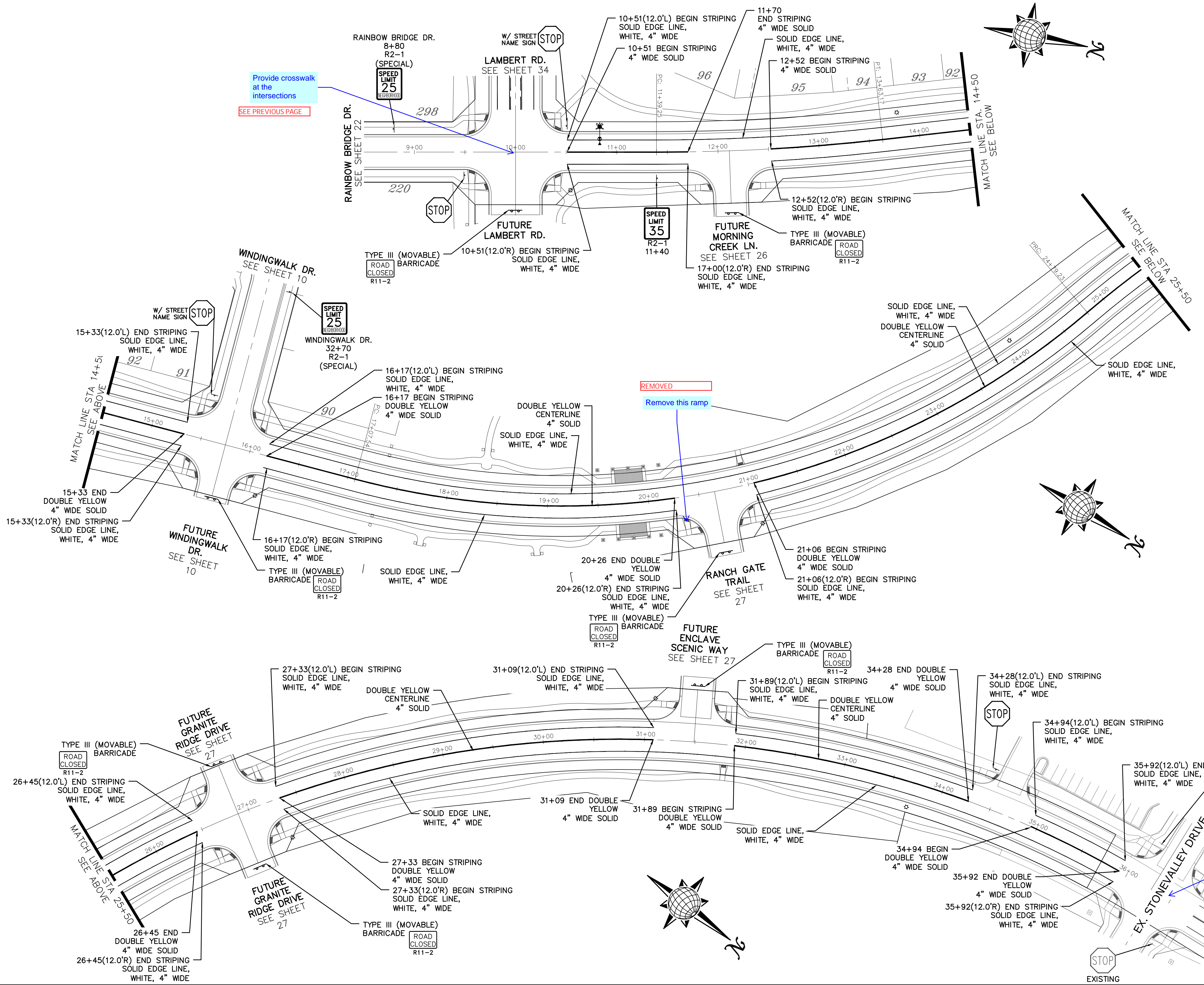
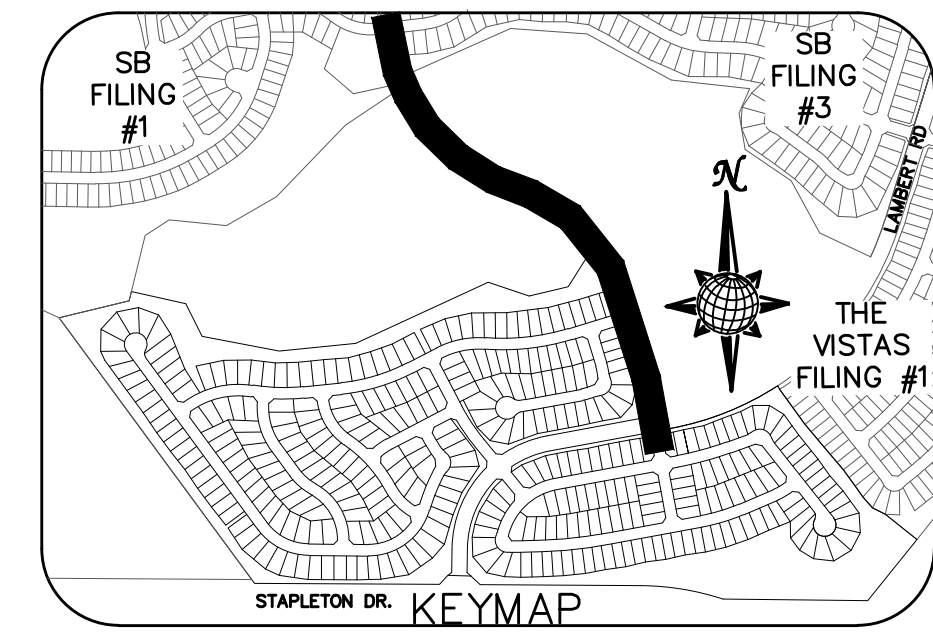
Since pedestrian ramps are direct provided, provide crosswalk striping. Pedestrian crossing sign may be needed along the Major road since it is not a stop condition.

Per the Traffic Impact Study Table 8, Item 4 & 5, restripe to provide an EBLT Lane on Stapleton.

REVISED

Scale	AS SHOWN	34 of 55			
Drawn by	LOG	Checked by	TAK	Date	JUN 2018
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS SIGNAGE AND STRIPING					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
No.	Revisions	Date	Instr.	Appr.	Date

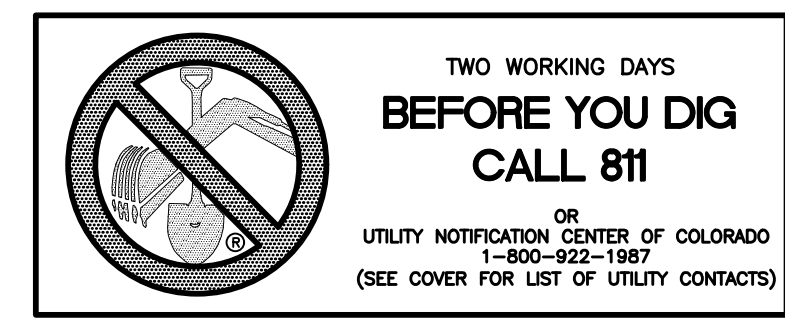
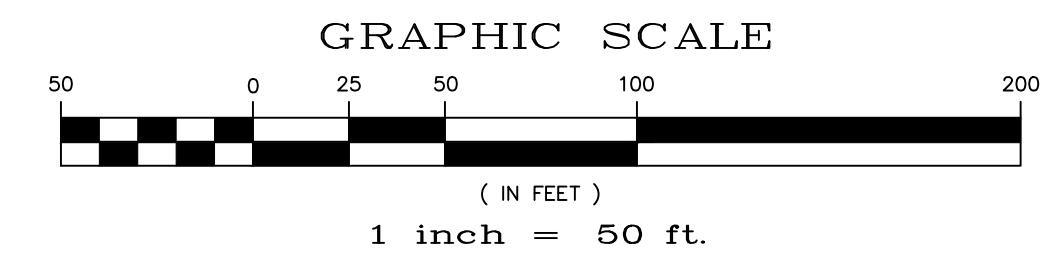
# SIGNAGE AND STRIPING



Provide crosswalk at the intersections  
SEE PREVIOUS PAGE

REMOVED  
Remove this ramp

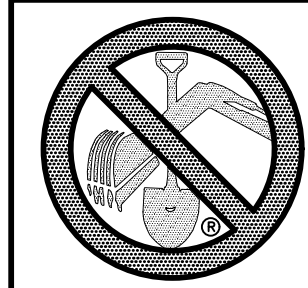
NOTE: DOTTED LINES TO BE 2' LONG WITH 4' SPACING PER MUTCD STANDARD



Per the Traffic Impact Study Table 8, Item 10, convert to an all-way stop. Provide crosswalk striping.

AT LONDONDERRY-RAINBOW BRIDGE INTERSECTION, ADDED TO THE PLAN

Scale	AS SHOWN	55 of 35			
Drawn by	LOG	Checked by	TAK	Date	JAN 2018
WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS SIGNAGE AND STRIPING					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
No.	Revisions	Date	Appr.	Date	



TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1967  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

STONEBRIDGE  
FILING 1 & 2

STONEBRIDGE  
FILING 3

NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)VISTAS FILING 1 AT MERIDIAN RANCH

NOTE:  
8" SS UNLESS OTHERWISE LABELED.

5' SSMH #44  
8" STUB & PLUG  
5' SSMH #43  
8" STUB & PLUG  
5' SSMH #39  
8" STUB & PLUG  
5' SSMH #38

8" STUB & PLUG  
4' SSMH #29  
4' SSMH #42  
4' SSMH #41  
4' SSMH #36  
4' SSMH #40  
4' SSMH #35  
4' SSMH #34  
5' SSMH #32  
5' SSMH #37  
5' SSMH #26,32  
5' SSMH #23  
5' SSMH #25  
5' SSMH #33



THE VISTAS  
FILING 1

WINDINGWALK FI AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
OVERALL SANITARY SEWER

Drawn by  
Checked by  
Date

Scale  
AS SHOWN  
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Revisions  
No.  
Date  
Invt.  
Appr.  
Date

PCD PROJECT NO. XX-XX-XXX



GRAPHIC SCALE



( IN FEET )  
1 inch = 150 ft.

WARNING  
NUSTAR PETROLEUM MAIN  
CALL: 1-800-866-9060 PRIOR TO CONSTRUCTION  
VERIFY LOCATION PRIOR TO START OF CONSTRUCTION

5' SSMH #1

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

MERIDIAN RANCH



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

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1967  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

**STONEBRIDGE  
FILING 1 & 2**

**STONEBRIDGE  
FILING 3**

**NOTE:**

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD  
CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS  
FILING 1 OFFSITE  
6)VISTAS FILING 1 AT MERIDIAN RANCH

**NOTE:**  
4" SS SERVICE UNLESS OTHERWISE LABELED.



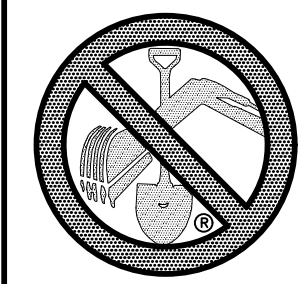
**GRAPHIC SCALE**



( IN FEET )  
1 inch = 150 ft.

**WARNING**  
NUSTAR PETROLEUM MAIN  
CALL: 1-800-866-9060 PRIOR TO CONSTRUCTION  
VERIFY LOCATION PRIOR TO START OF CONSTRUCTION

Scale	AS SHOWN	37 of 55	Date	JAN 2018
Drawn by	LCB	Checked by	TAK	
WINDINGWALK FI AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES				
No.	Revisions	Date	Instr.	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				



TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1867  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)VISTAS FILING 1 AT MERIDIAN RANCH

STONEBRIDGE  
FILING 1 & 2

STONEBRIDGE  
FILING 3

LEGEND

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

No.	Revisions	Date	Instr.	Appr.	Date

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



WINDINGWALK FI AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
OVERALL UNDERDRAIN

Drawn by  
LCA

Checked by  
TKK

Date  
JUN 2018

Scale  
AS SHOWN

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GRAPHIC SCALE



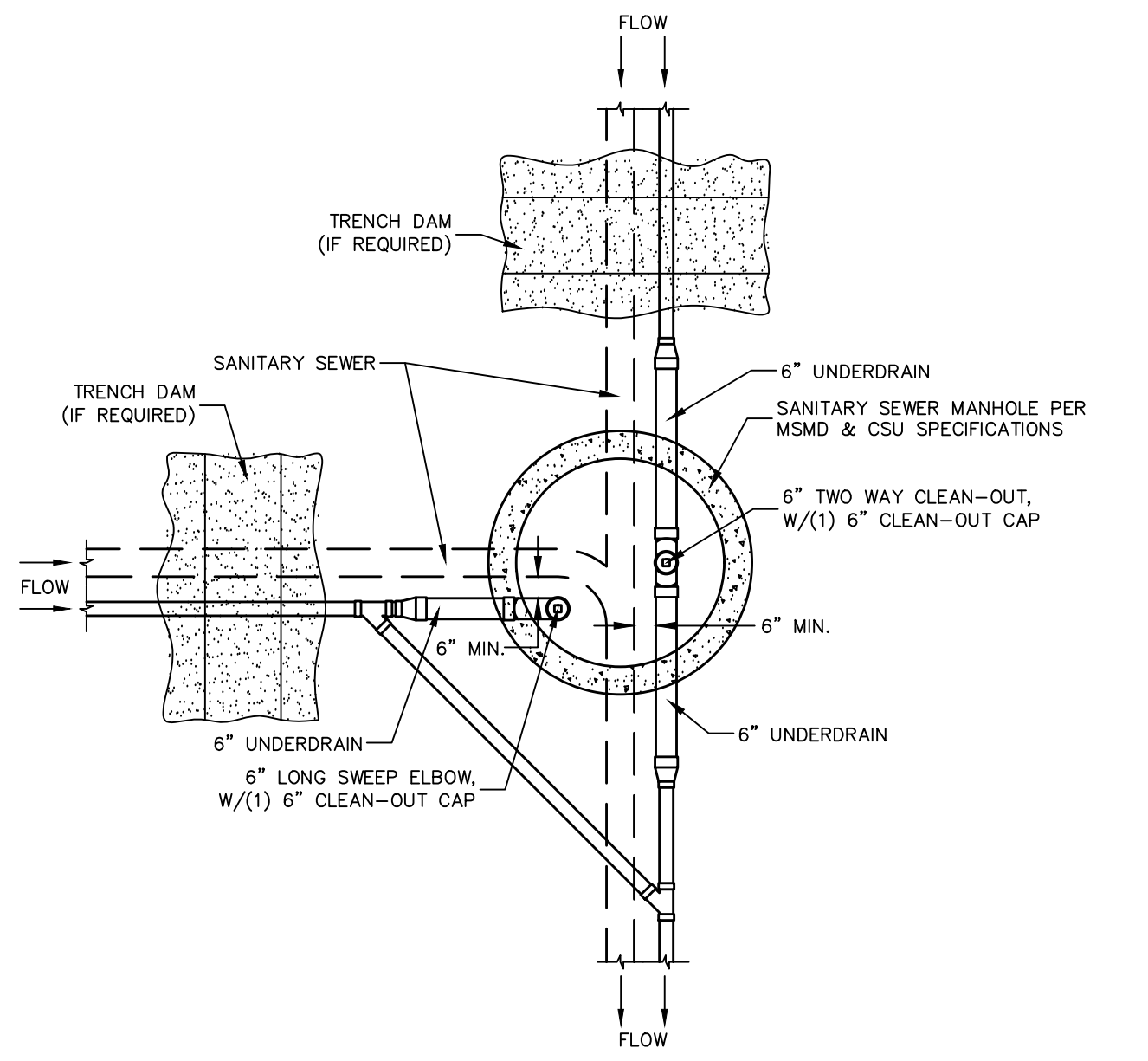
( IN FEET )  
1 inch = 150 ft.



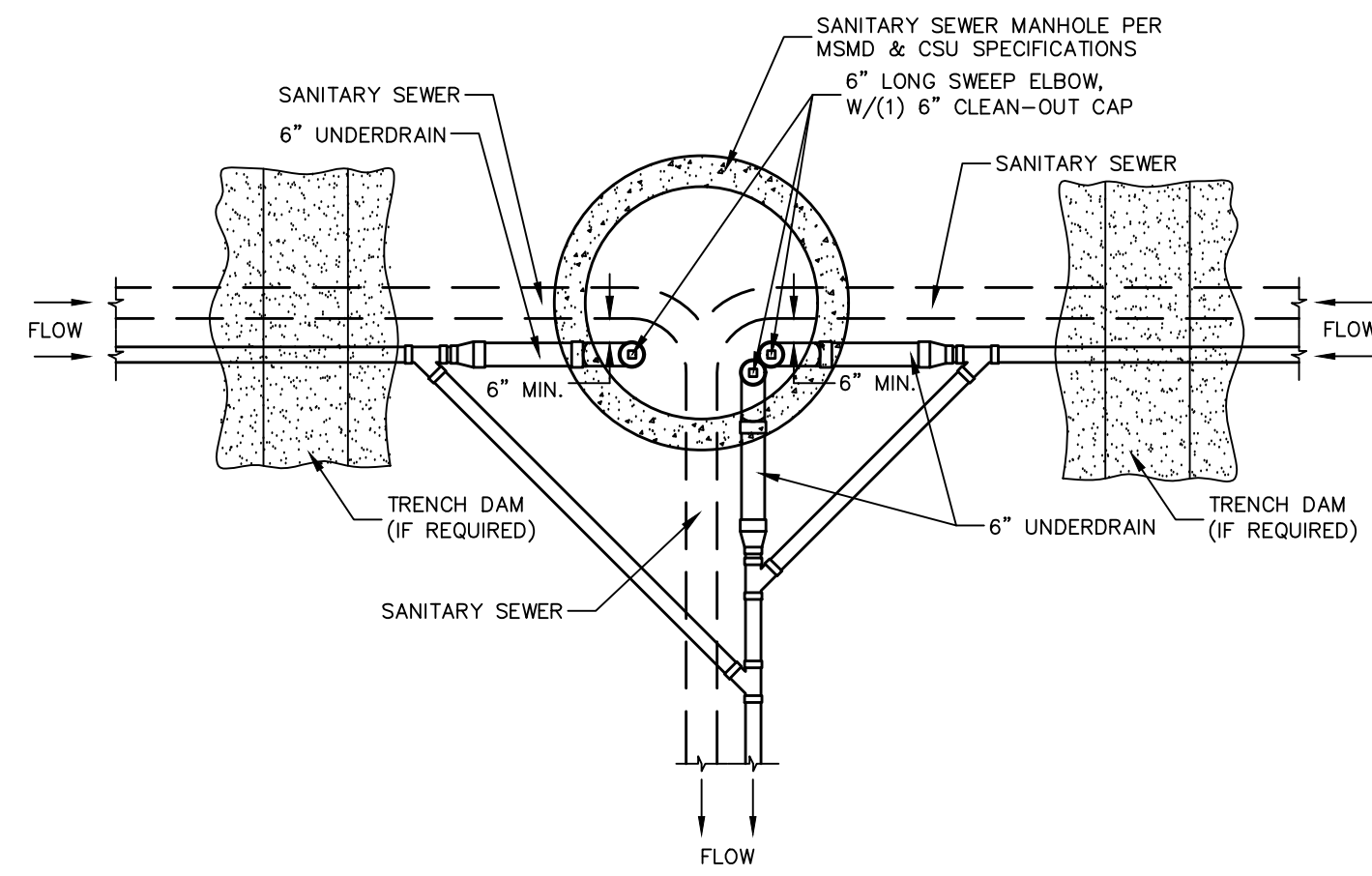
# CLEAN-OUT DETAILS

SCALE : N.T.S.

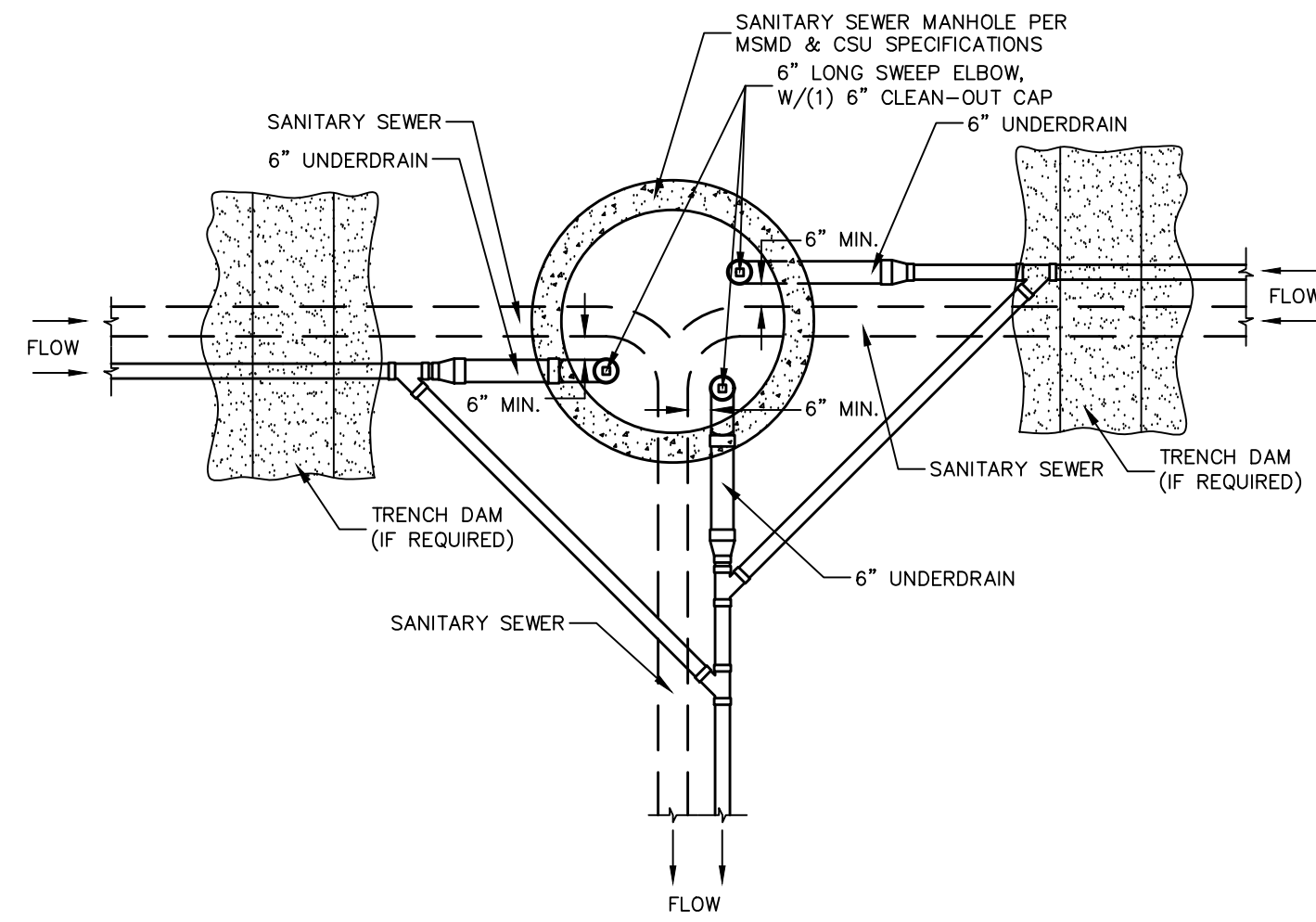
NOTE:  
SSMH #1, #2, & #3 DO NOT HAVE UNDERDRAIN.



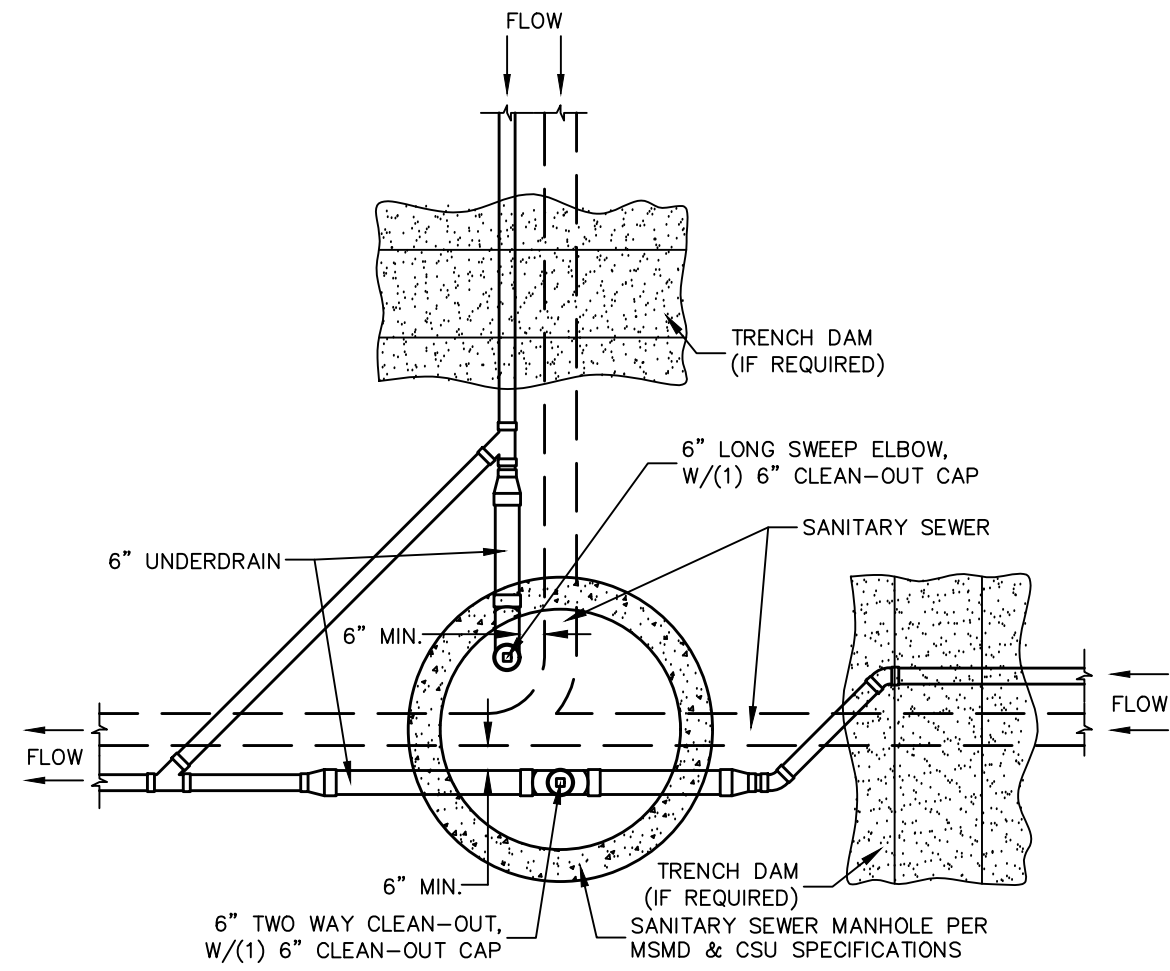
**SSMH #31**



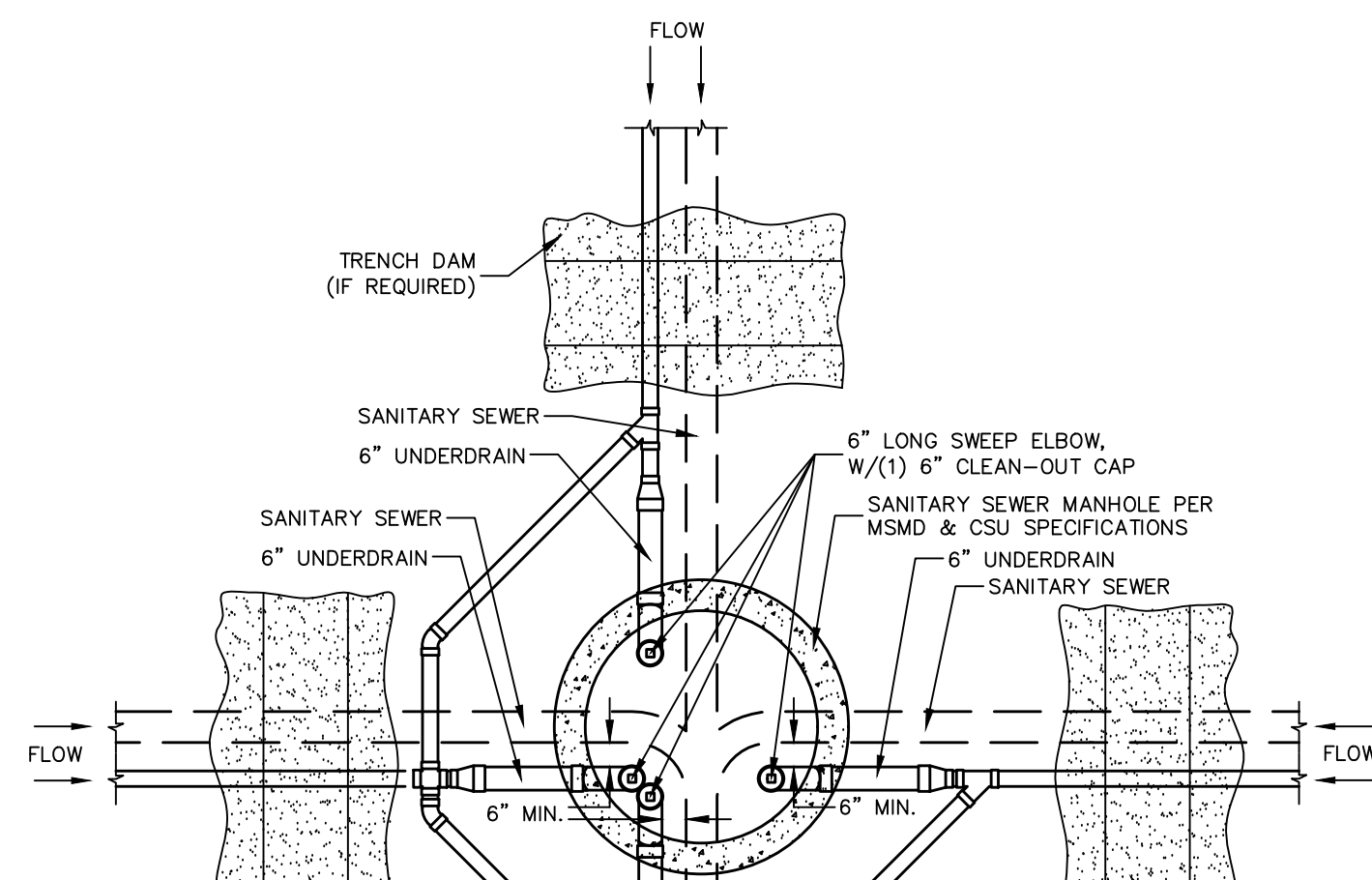
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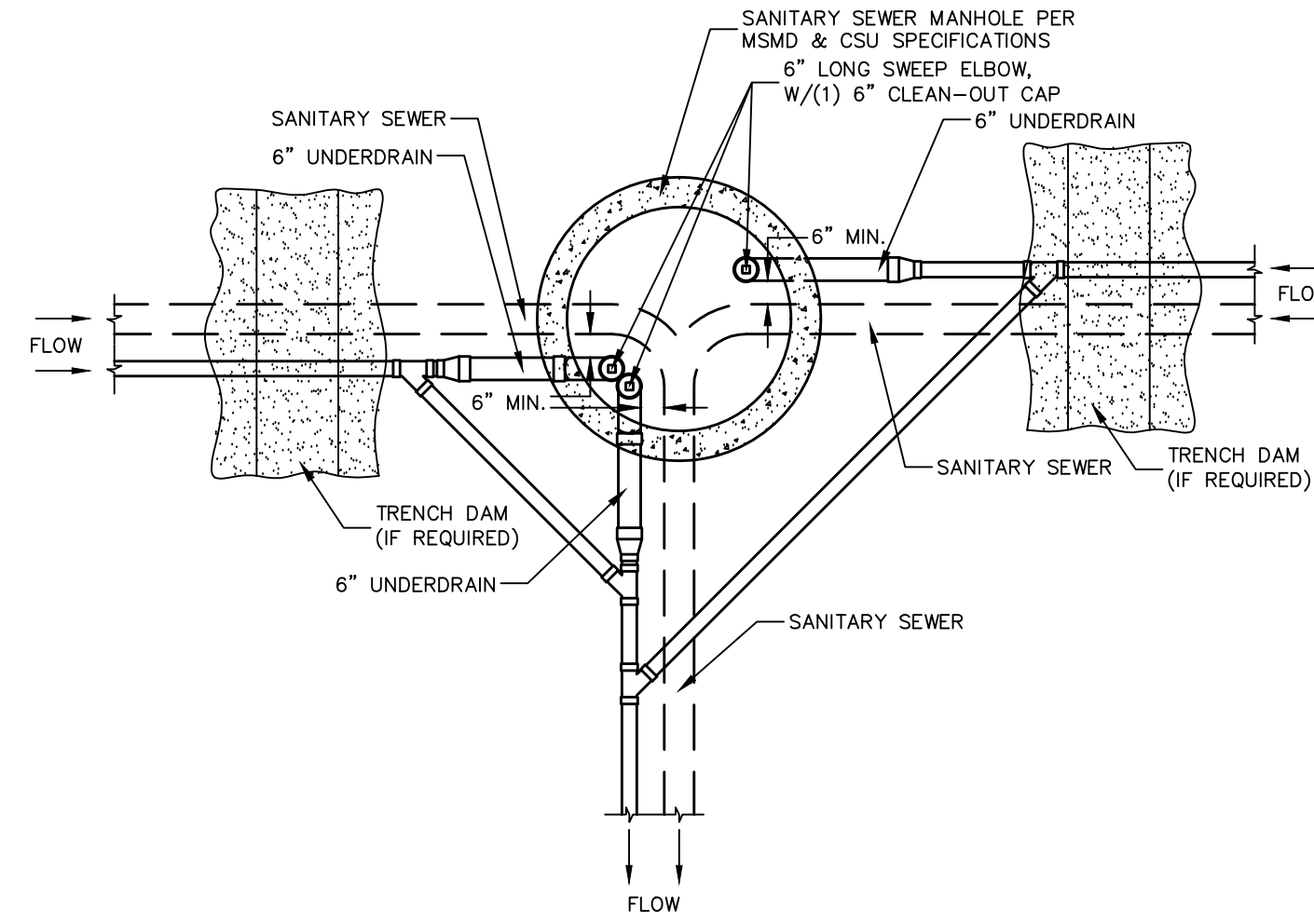
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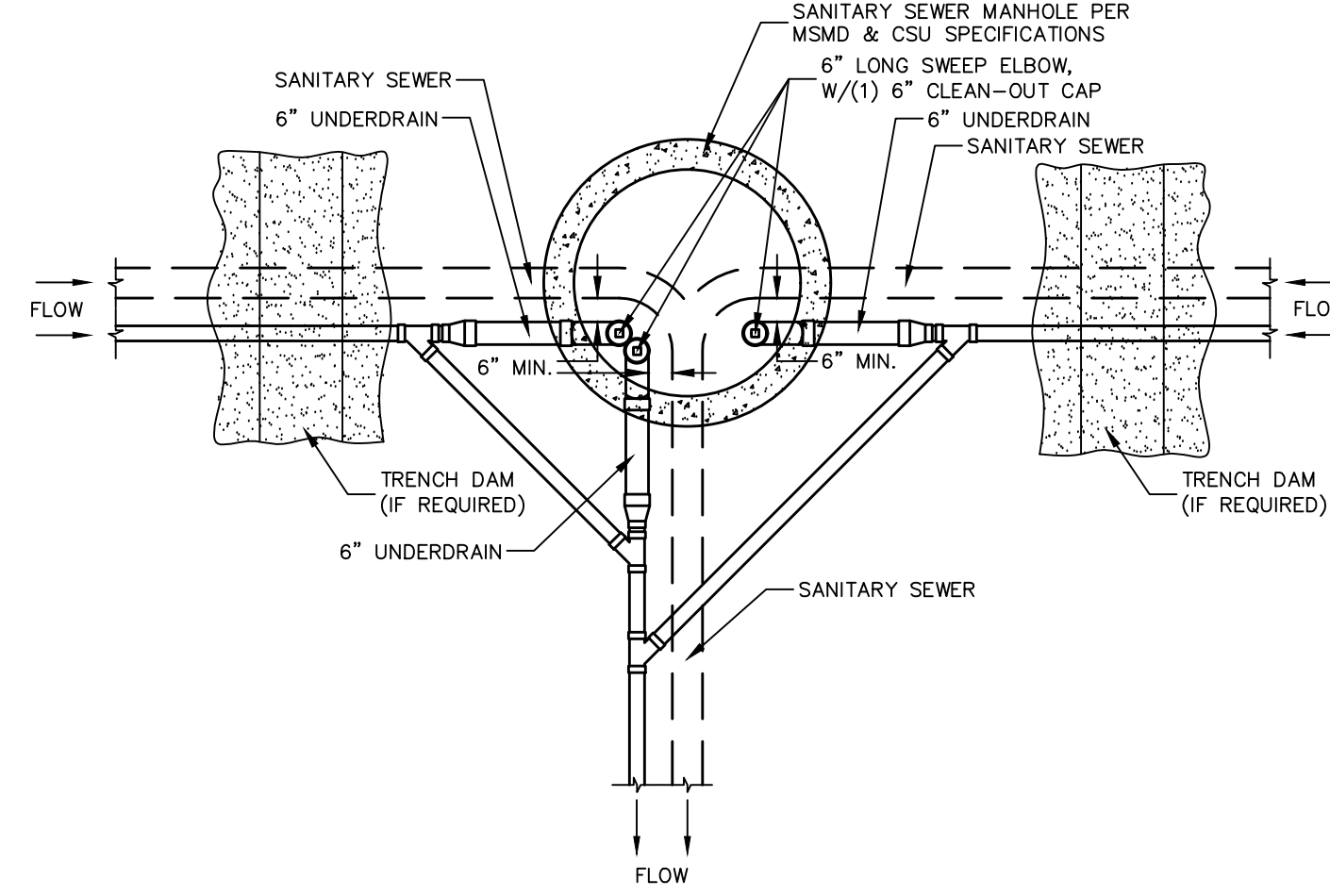
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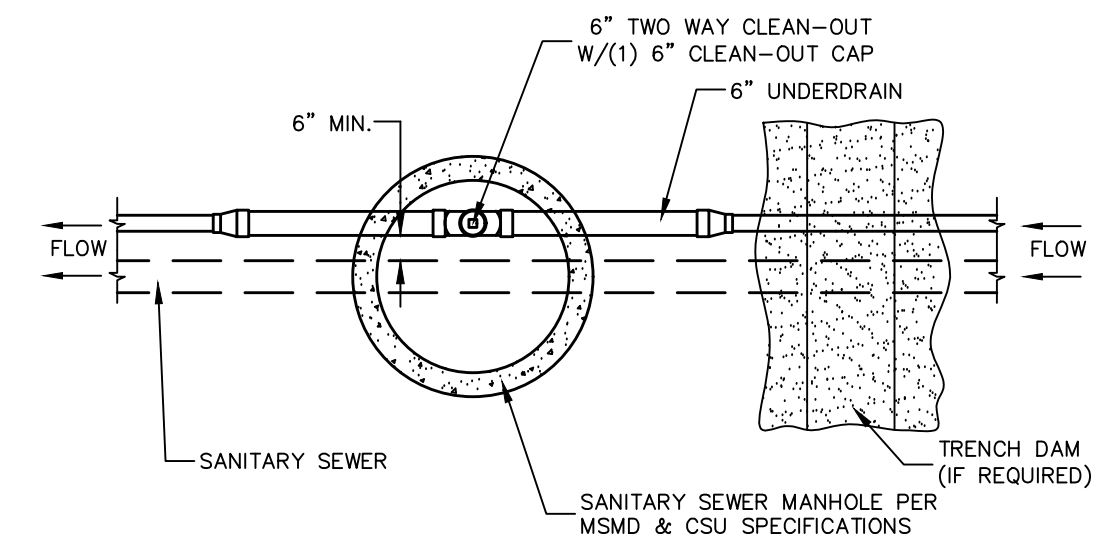
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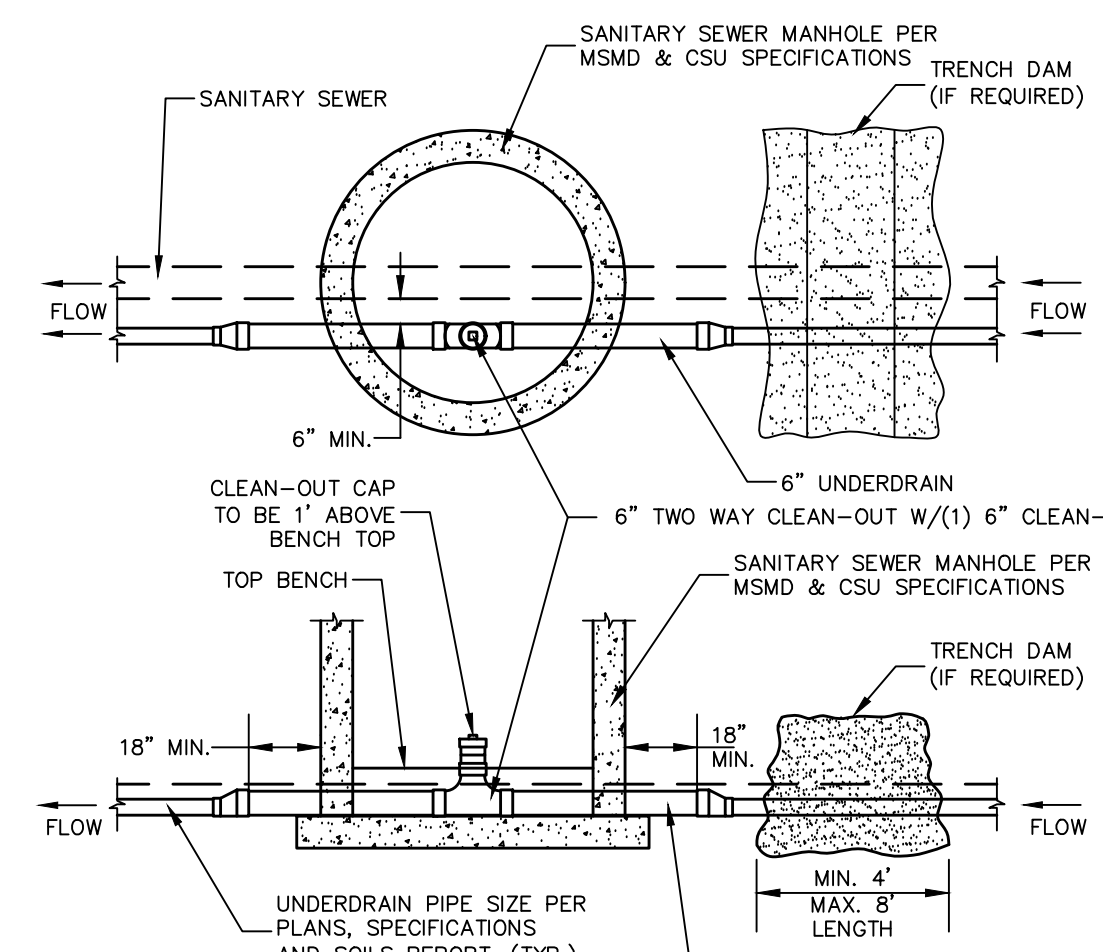
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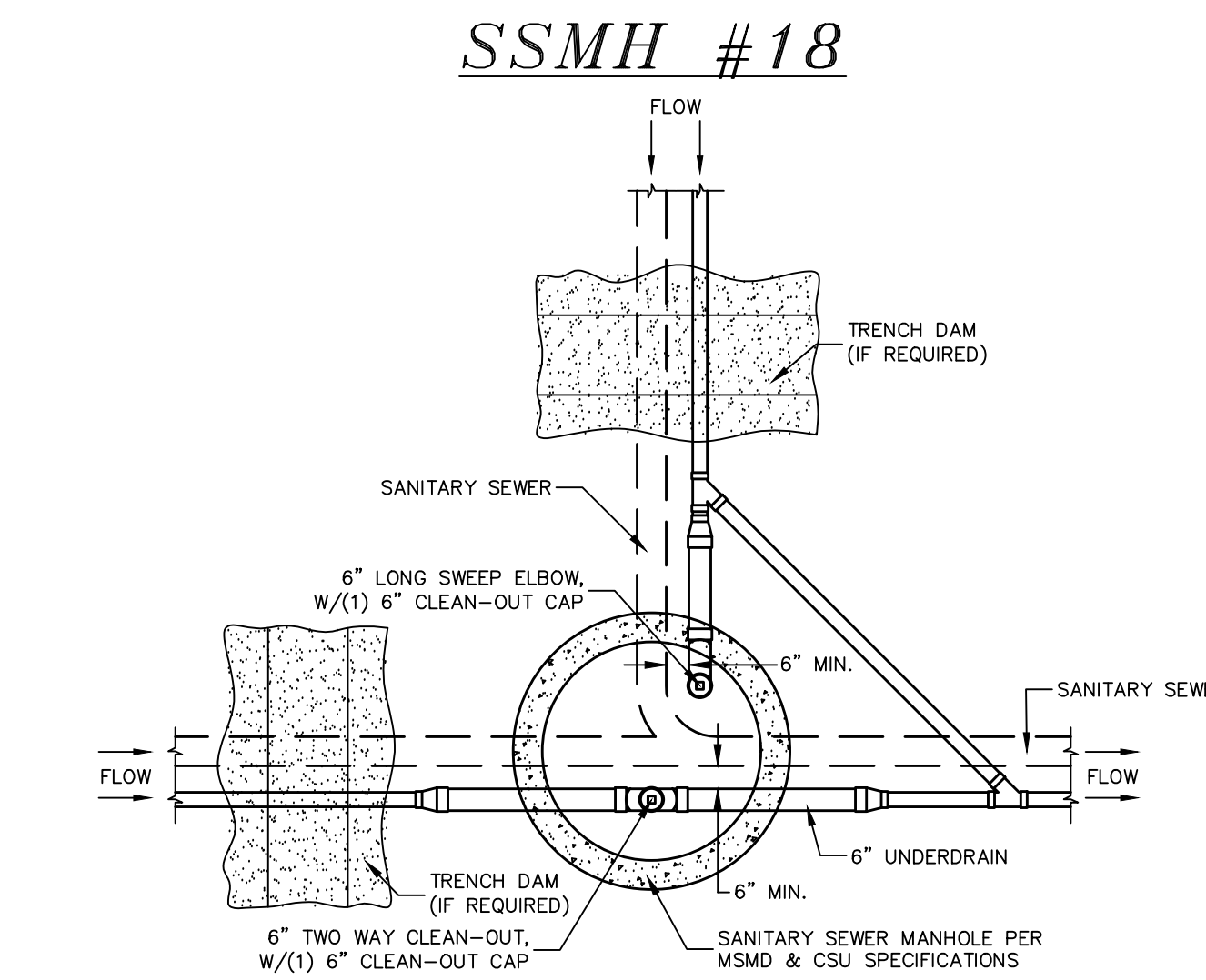
**SSMH #4, #9, #38**



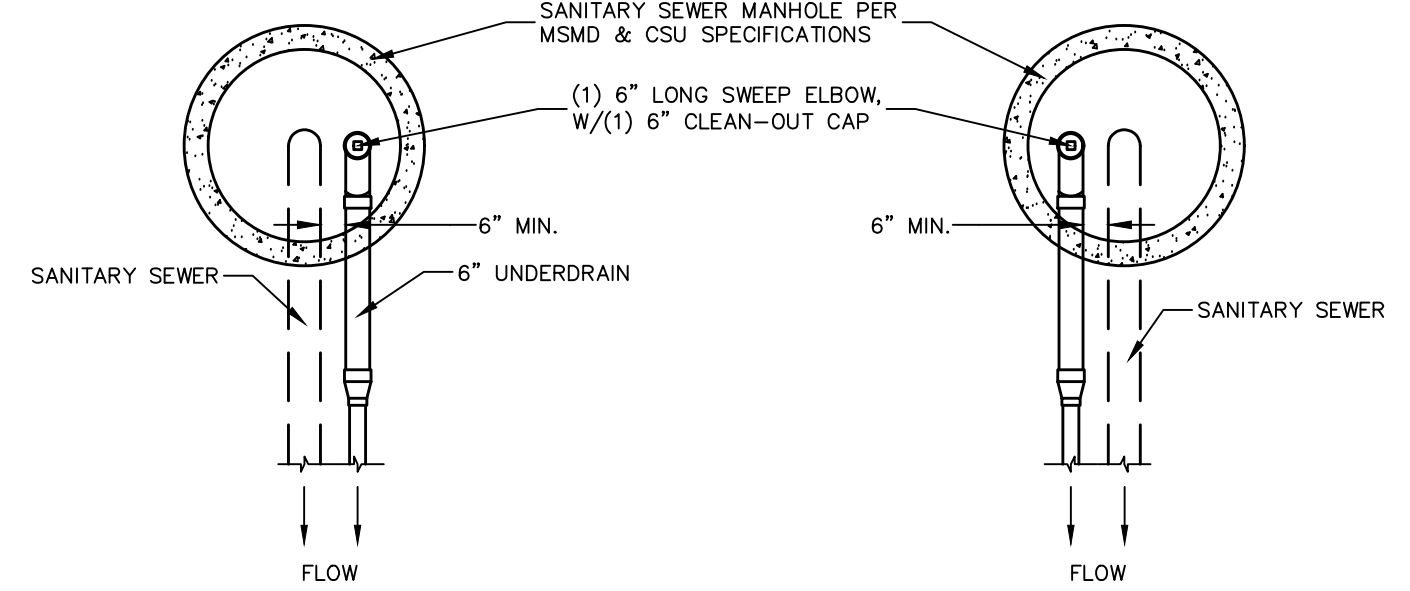
**SSMH #6, #11, #12, #19, #20, #27, #30, #34, #40, #41, #49**



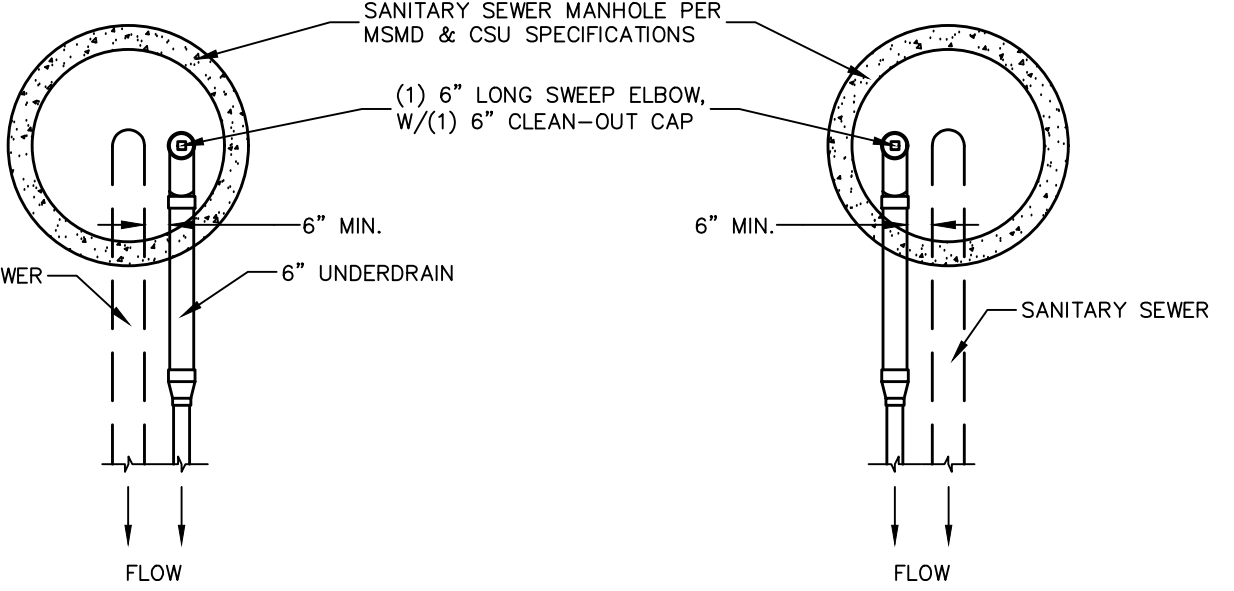
**SSMH #16**



**SSMH #5, #10, #13, #43**



**SSMH #15, #17, #29, #36, #46, & #51**



**SSMH #14, #21, #24, #28, #35, #42, #48, & #50**

**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" LONG SWEEP ELBOW, W/(1) 6" CLEAN-OUT 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. UNDERDRAIN 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.

No.	Revisions	Date	Appr.	Date

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



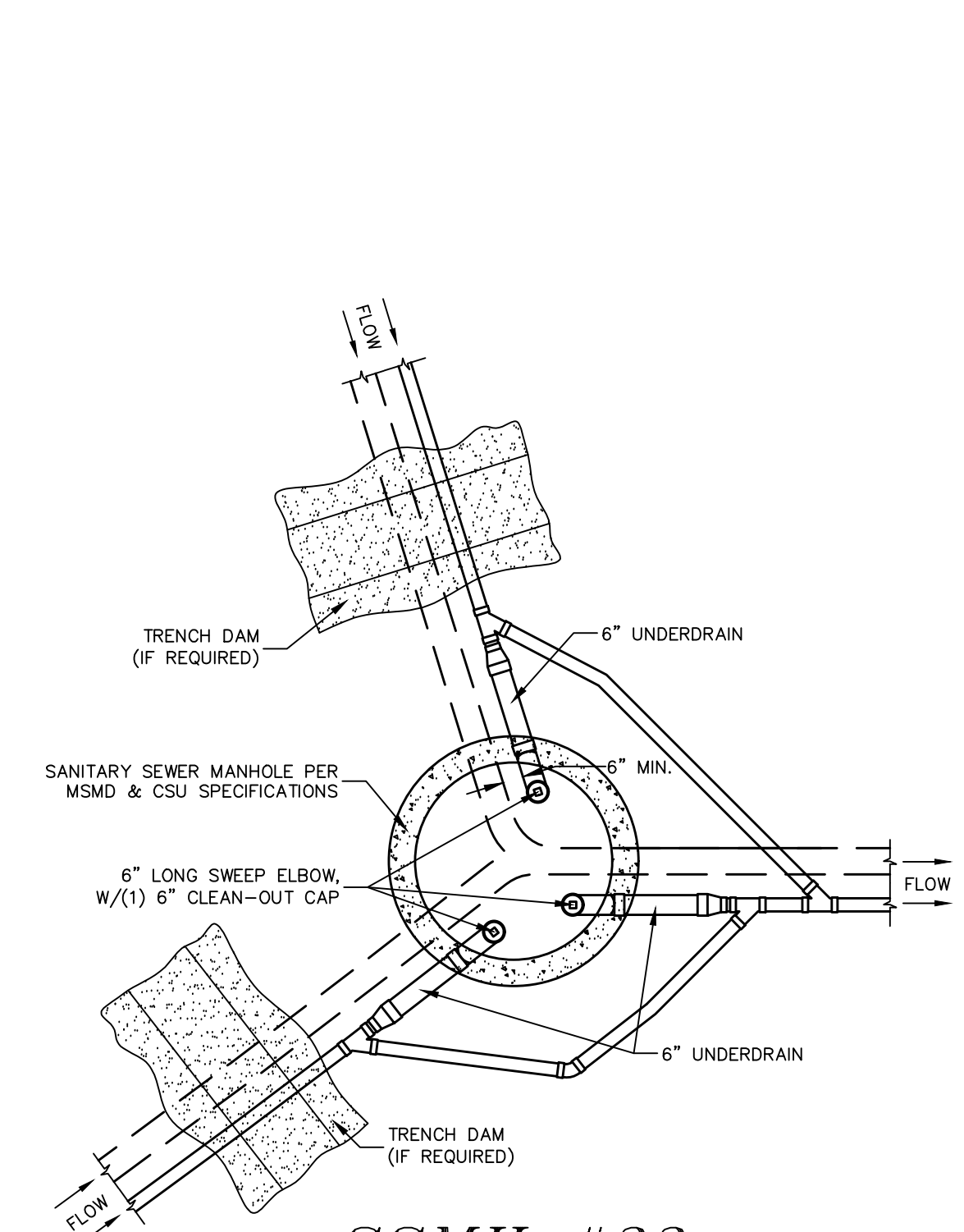
WINDINGWALK FL AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
UNDERDRAIN DETAILS

Drawn by: LGA  
Checked by: TAK  
Date: JAN 2018

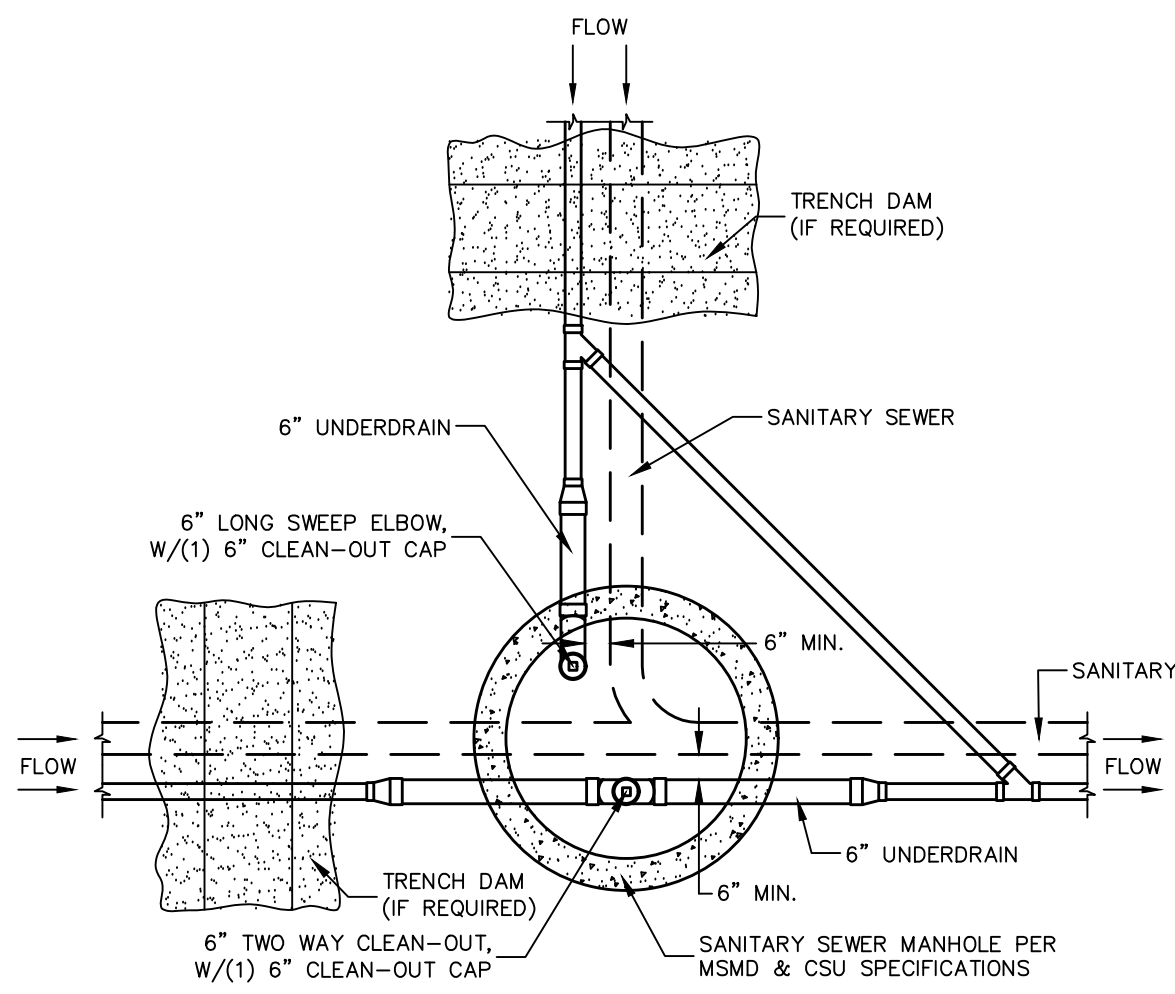
Scale: AS SHOWN  
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TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1887  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

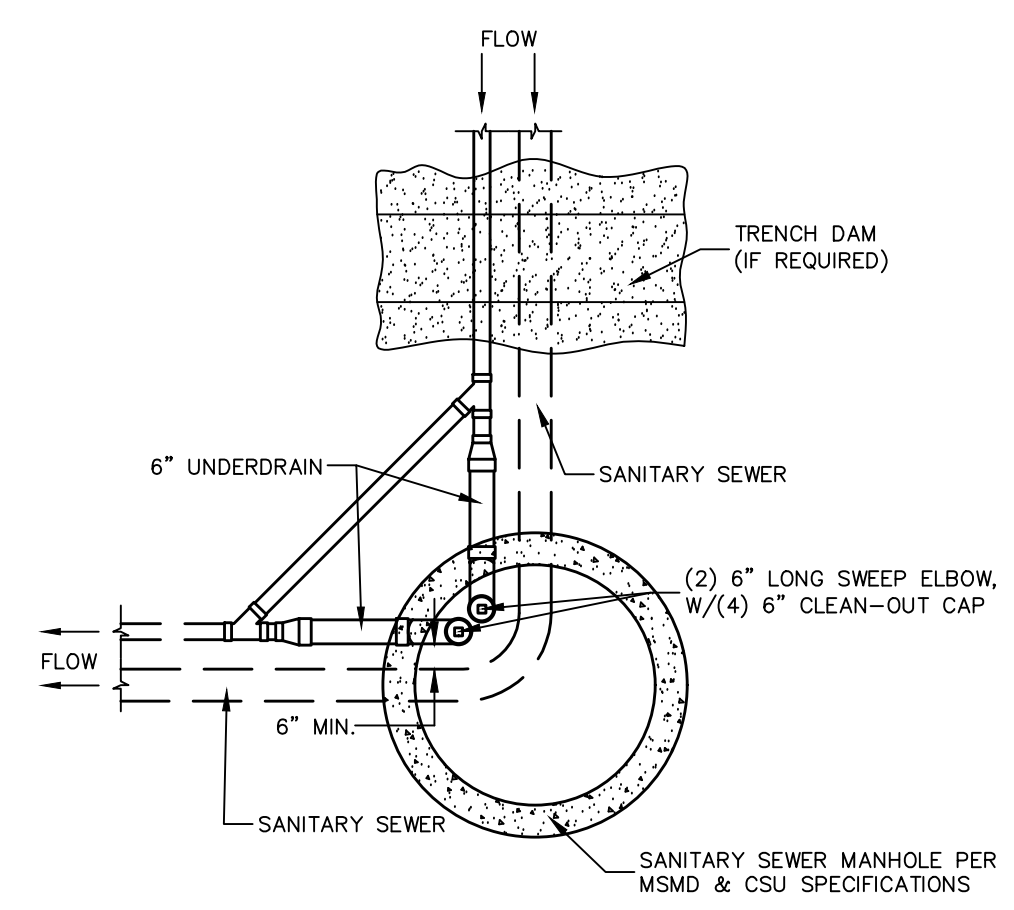


**SSMH #33**

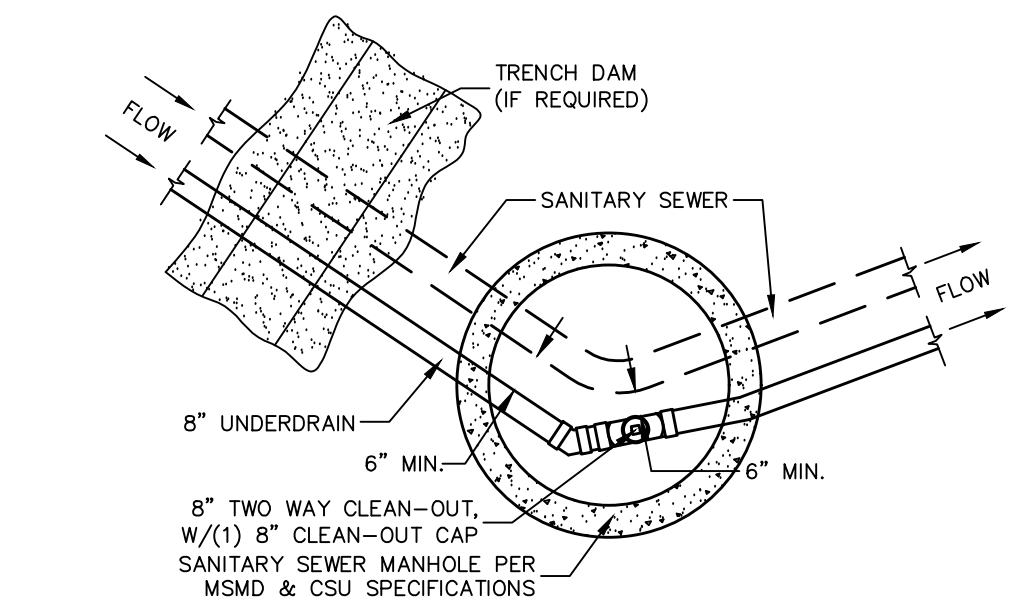


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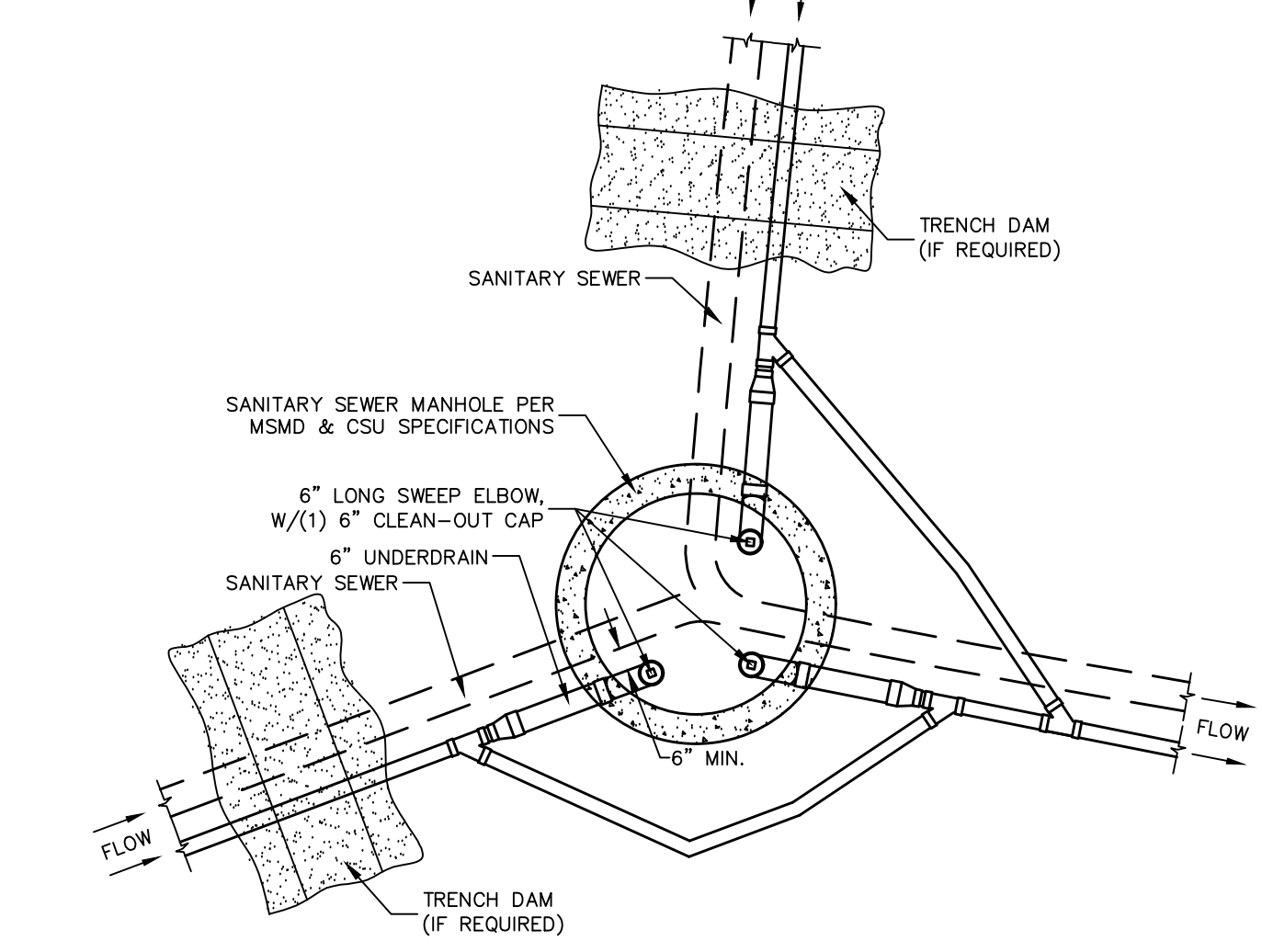
**CLEAN-OUT DETAILS**  
SCALE : N.T.S.



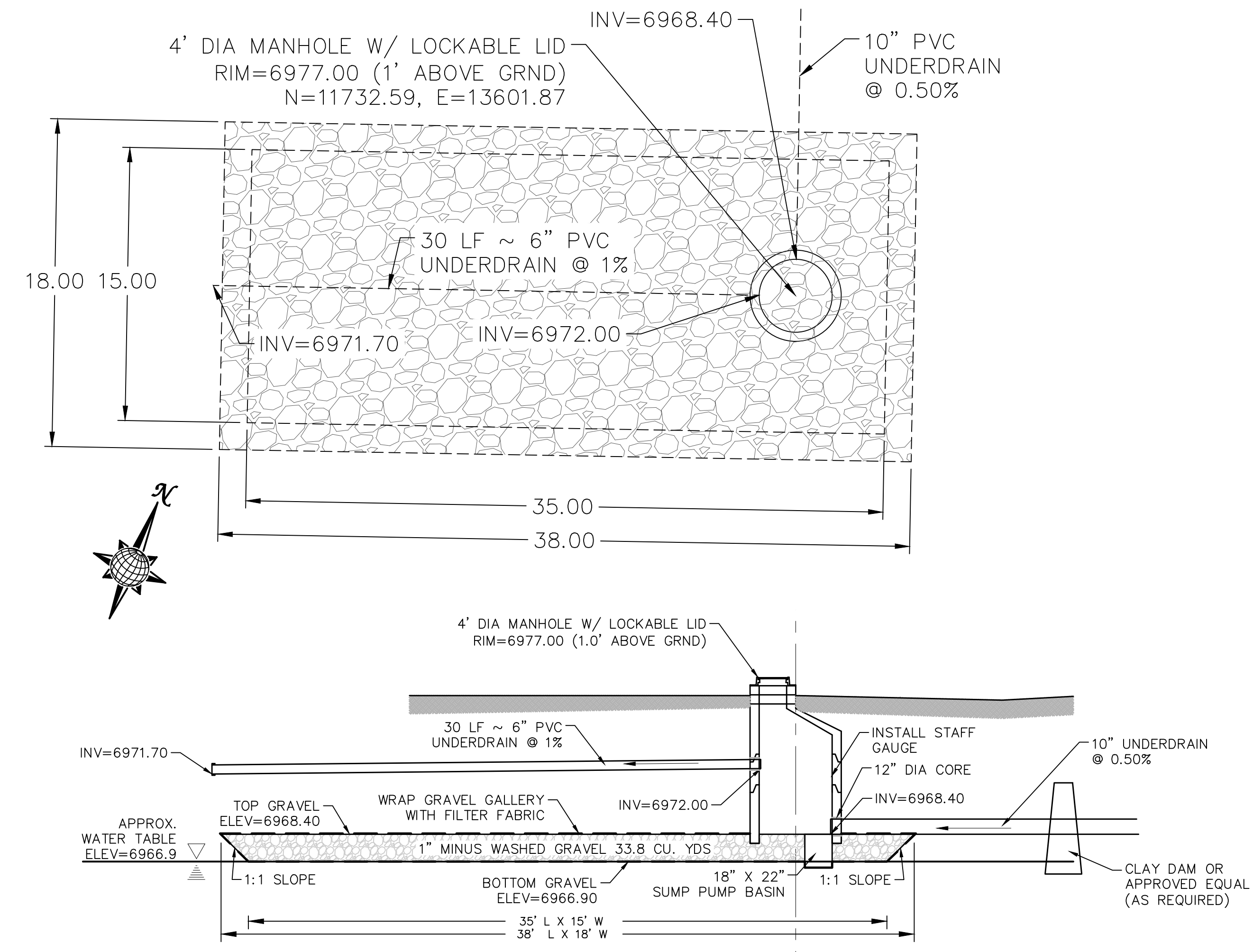
**SSMH #22, #25,  
#37, #44, #47**



**SSMH #8**



**SSMH #7**



**DISPERSION PIT DETAIL**  
AREA 8, TOTAL OF 500-600 RESIDENTIAL HOMES  
SCALE : N.T.S.

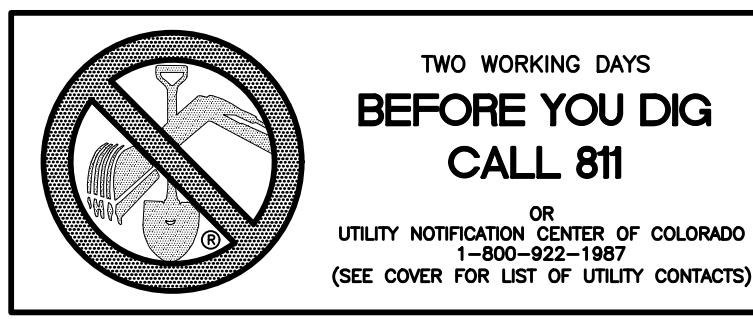
**UNDERDRAIN DISPERSION PIT NOTES/SPECIFICATIONS**

1. UNDERDRAIN SHALL BE PVC SCHEDULE 35, PASSIVE AND DAYLIGHT AS SHOWN.
2. TRACER WIRE TO BE PLACED WITH SUBDRAIN INSTALLATION. USE 14 GA. UF.
3. GROUT ALL PIPE PENETRATIONS.
4. INSTALL A CLAY DAM UPSTREAM OF THE DISPERSION PIT AS DIRECTED BY THE SOILS ENGINEER.
5. GRAVEL SHALL BE 1" MINUS WASHED GRAVEL WRAPPED ON ALL SIDES WITH MIRAFI N-SERIES NONWOVEN FILTER FABRIC OR APPROVED EQUAL.
6. IF GROUNDWATER IS ENCOUNTERED IN DISPERSION PIT STOP INSTALLATION AND CONTACT DISTRICT ENGINEER FOR POSSIBLE ALTERNATE DESIGN.
7. INSTALL 10' STAFF GAUGE INSIDE MANHOLE, WITH ZERO AT TOP OF GRAVEL. STAFF GAUGE 'C', USA BLUEBOOK NOS. 27607, 27608, & 27609, OR APPROVED EQUAL. ATTACH TO SIDE OF MANHOLE PER MANUFACTURER'S SPECIFICATIONS.

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		WINDINGWALK FLAT MERIDIAN RANCH STREET AND UTILITY PLANS UNDERDRAIN DETAILS	
Scale	AS SHOWN	Drawn by	LOG
		Checked by	TAK
	40 of 55	Date	JAN 2018
		Revisions	No.
		Date	Instr.
		Date	Appr.
		Date	Date







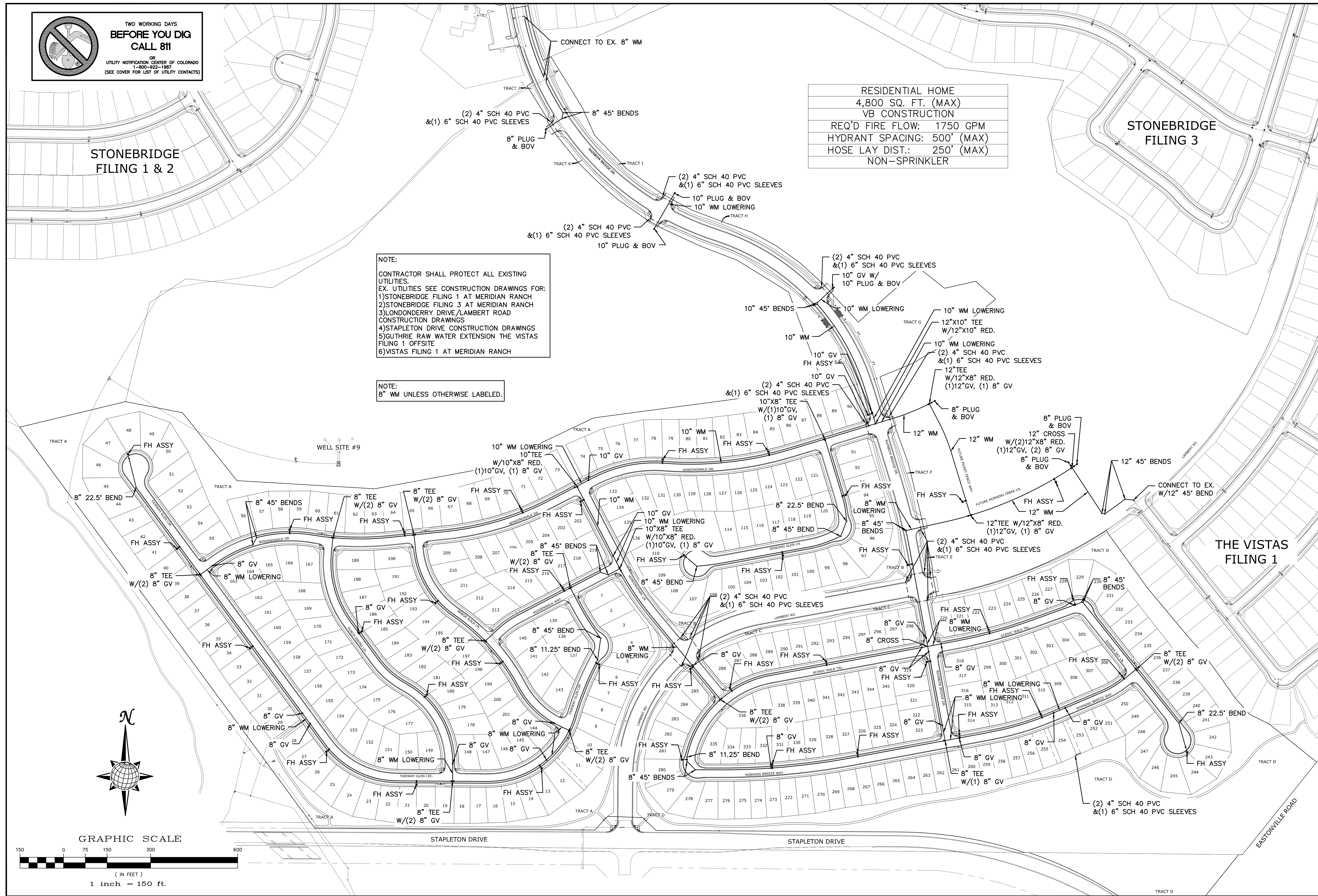
STONEBRIDGE  
FILING 1 & 2

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

STONEBRIDGE  
FILING 3

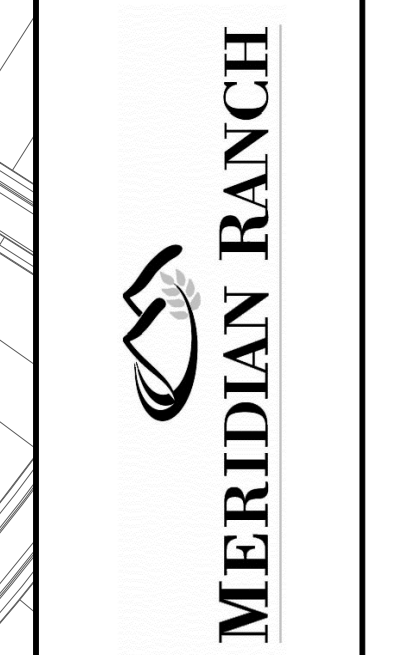
NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)VISTAS FILING 1 AT MERIDIAN RANCH

NOTE:  
8" WM UNLESS OTHERWISE LABELED.



No.	Revisions	Date	Instr.	Appr.	Date

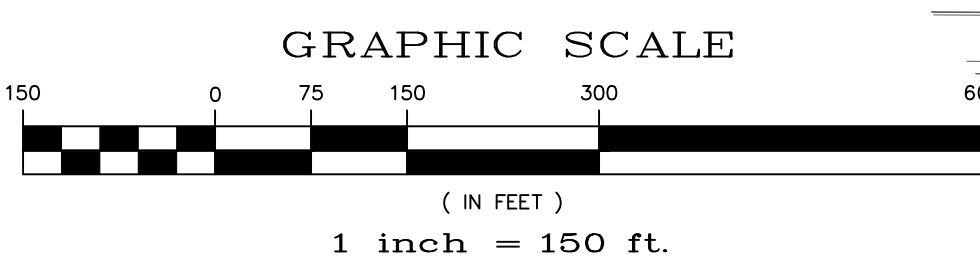
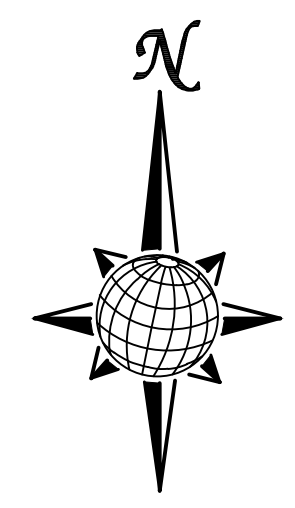
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

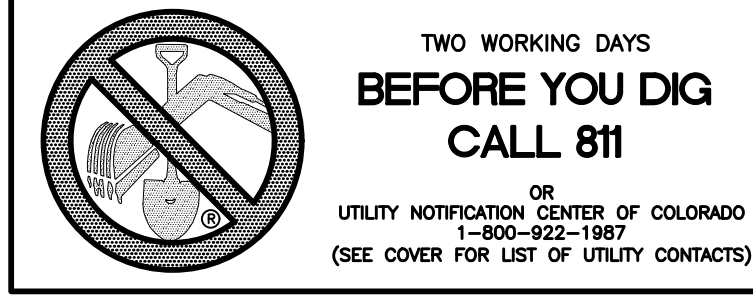


WINDINGWALK FL AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
OVERALL WATER

Drawn by LCA  
Checked by TAK  
Date JUN 2018

Scale AS SHOWN  
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STONEBRIDGE FILING 1 & 2

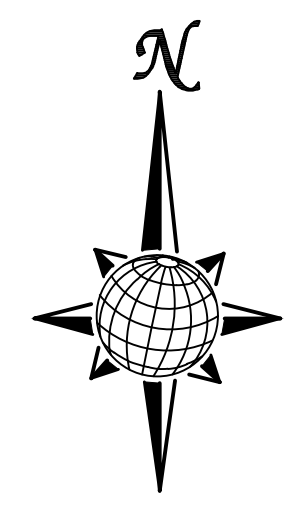
STONEBRIDGE FILING 3

NOTE:  
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
 1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
 2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
 3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
 4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
 5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
 6)VISTAS FILING 1 AT MERIDIAN RANCH

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

WELL SITE #9

THE VISTAS FILING 1



GRAPHIC SCALE



( IN FEET )  
 1 inch = 150 ft.

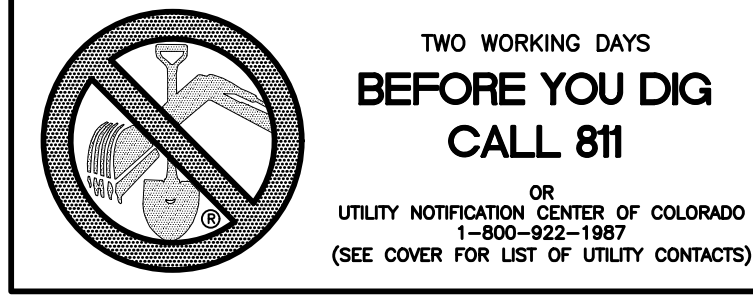
No.	Revisions	Date	Instr.	Appr.	Date

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 FALCON, CO 80831  
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 FAX: 719.495.2457



WINDINGWALK FI AT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 OVERALL WATER SERVICES

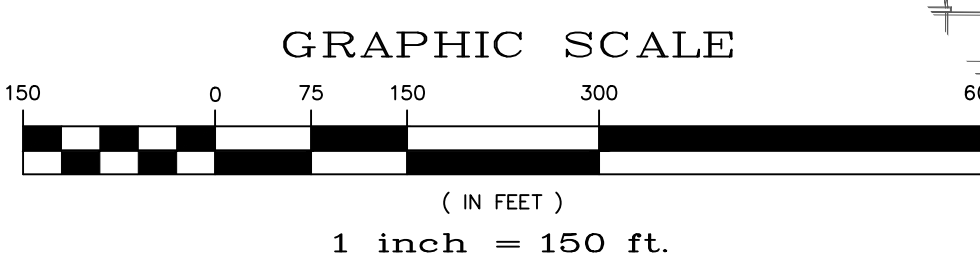
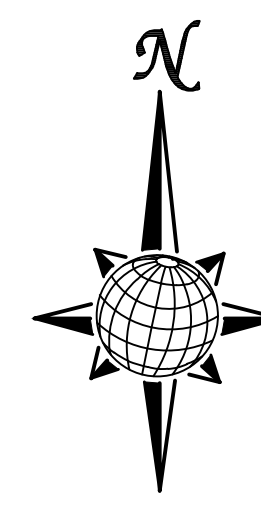
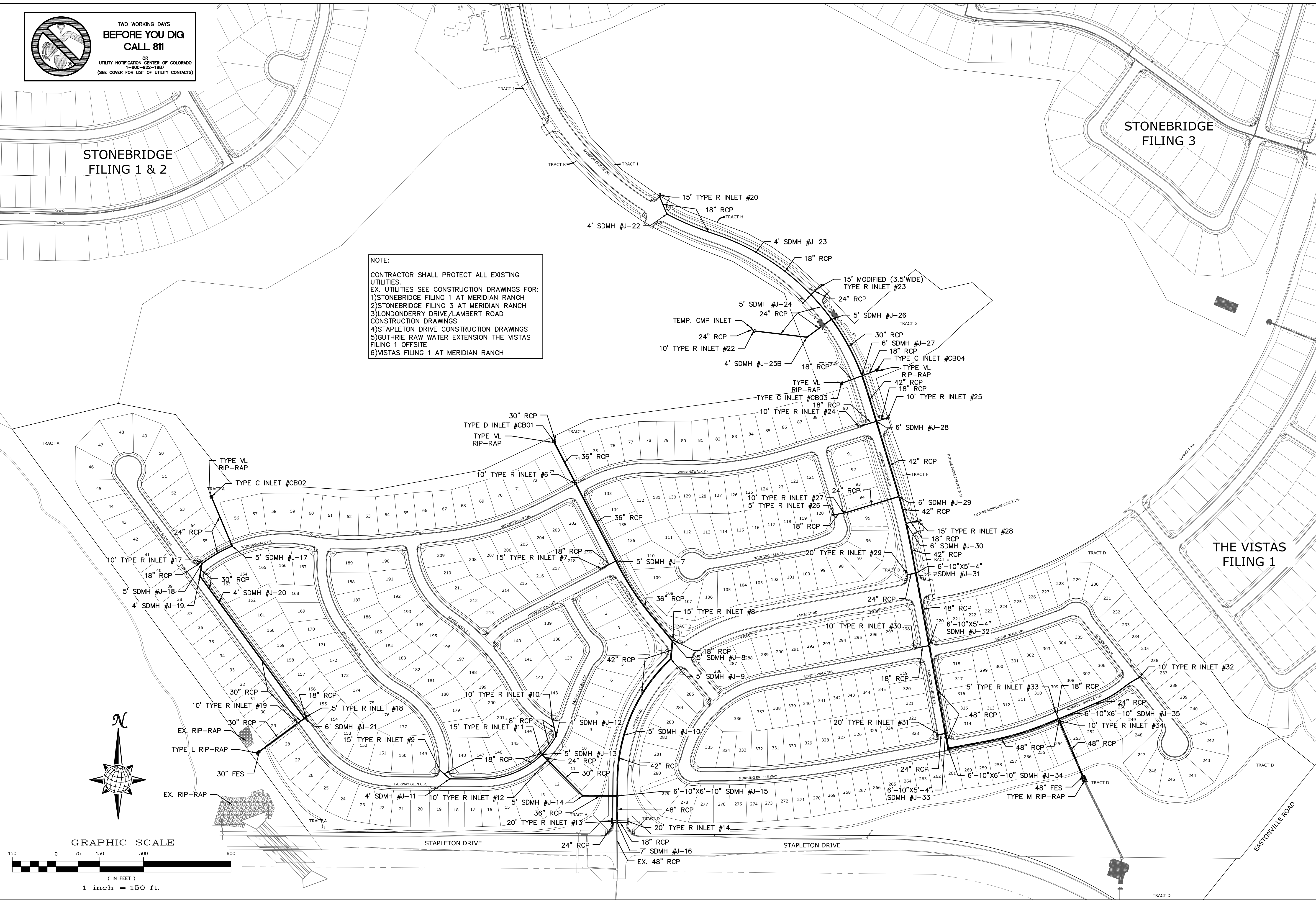
Scale	AS SHOWN
Drawn by	LCB
Checked by	TAK
Date	JUN 2018
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STONEBRIDGE FILING 1 & 2

STONEBRIDGE FILING 3

NOTE:  
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
 1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
 2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
 3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
 4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
 5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
 6)VISTAS FILING 1 AT MERIDIAN RANCH



No.	Revisions	Date	Instr.	Appr.	Date

TECH CONTRACTORS  
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 FALCON, CO 80831  
 TELEPHONE: 719.495.7444  
 FAX: 719.495.2457



WINDINGWALK FLAT MERIDIAN RANCH  
 STREET AND UTILITY PLANS  
 OVERALL STORM DRAIN

Drawn by LGA  
 Checked by TAK  
 Date JUN 2018

Scale AS SHOWN  
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**GENERAL NOTES:**

1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS.
2. 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.
3. 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.
4. 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE DEC. 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 PCD INSPECTIONS STAFF.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 90 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMPs MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEMAED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
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. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
18. 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.
19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
22. INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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

Fill in.

JANUARY 25, 2018



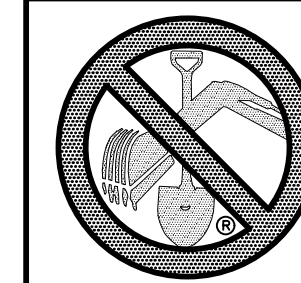
GRAPHIC SCALE



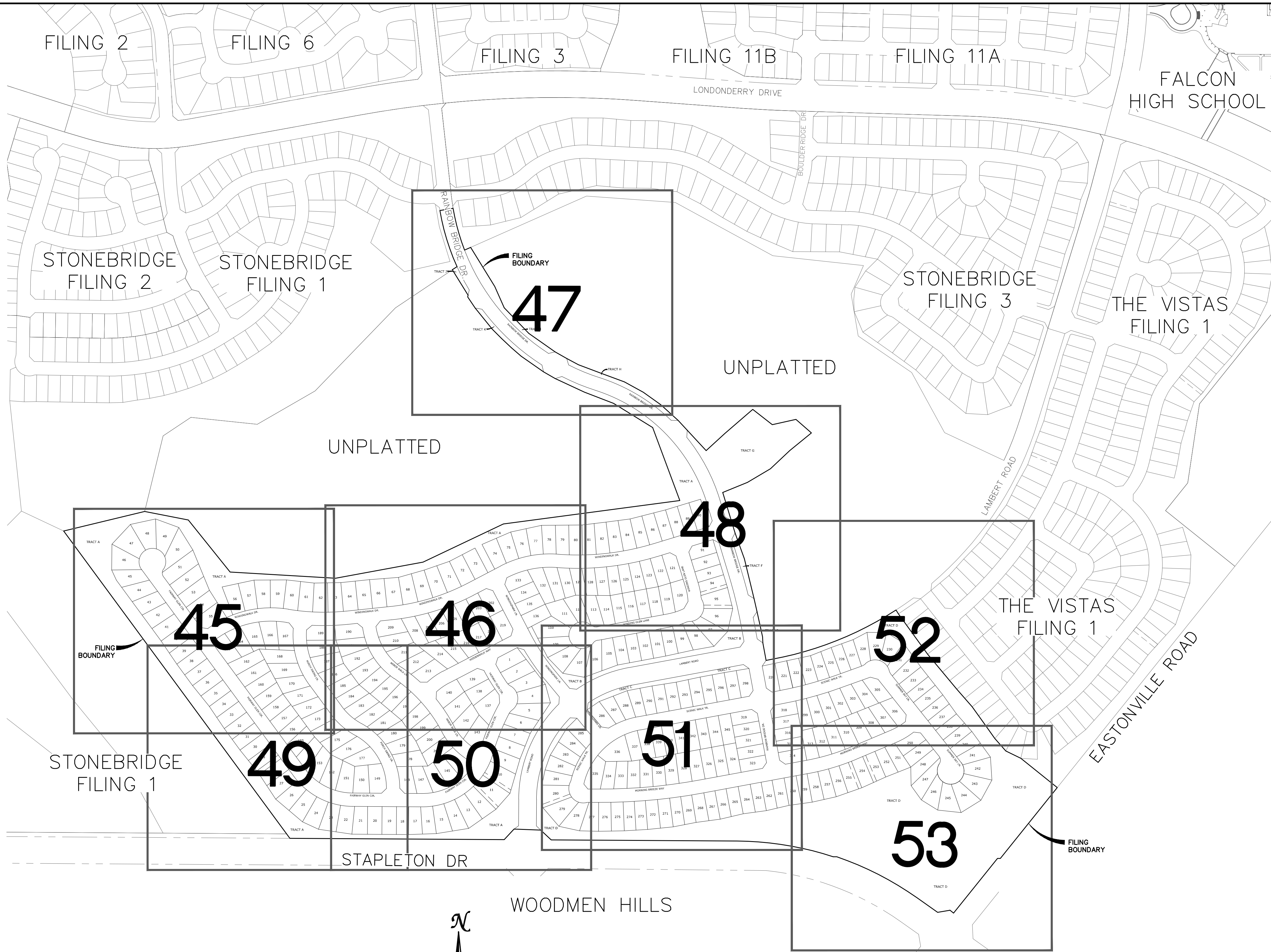
( IN FEET )  
 1 inch = 250 ft.

**EARTHWORK QUANTITIES**

NET YARDS	BALANCE	
TOTAL STRIPPINGS	0.45 AC.	241 CY
NET YARDS	CUT	FILL
	2,815 CY	2,815 CY
20% COMPACTION FACTOR		



TWO WORKING DAYS  
**BEFORE YOU DIG  
 CALL 811**  
 OR  
 UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-422-1887  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)



No.	Revisions	Date	Appr.	Date

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

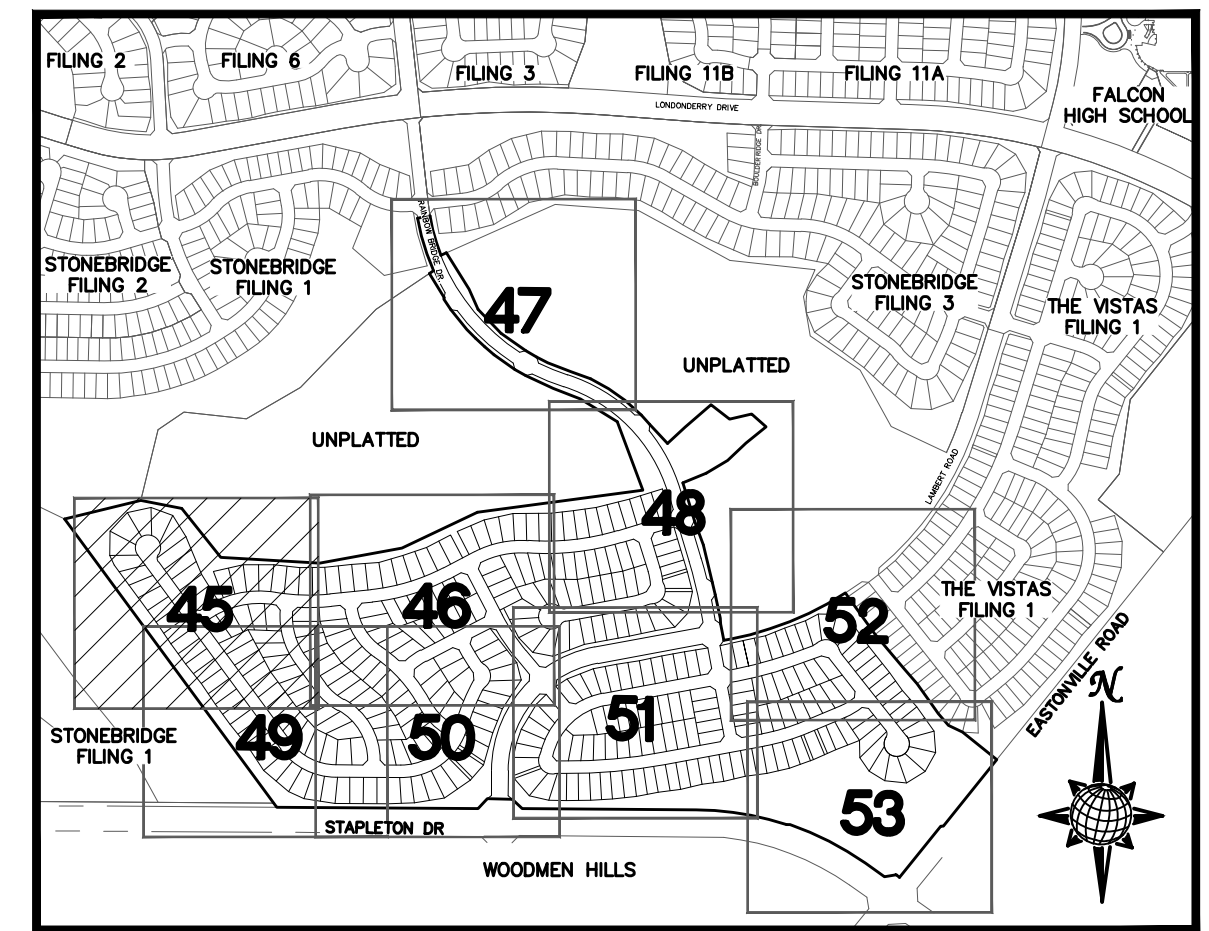
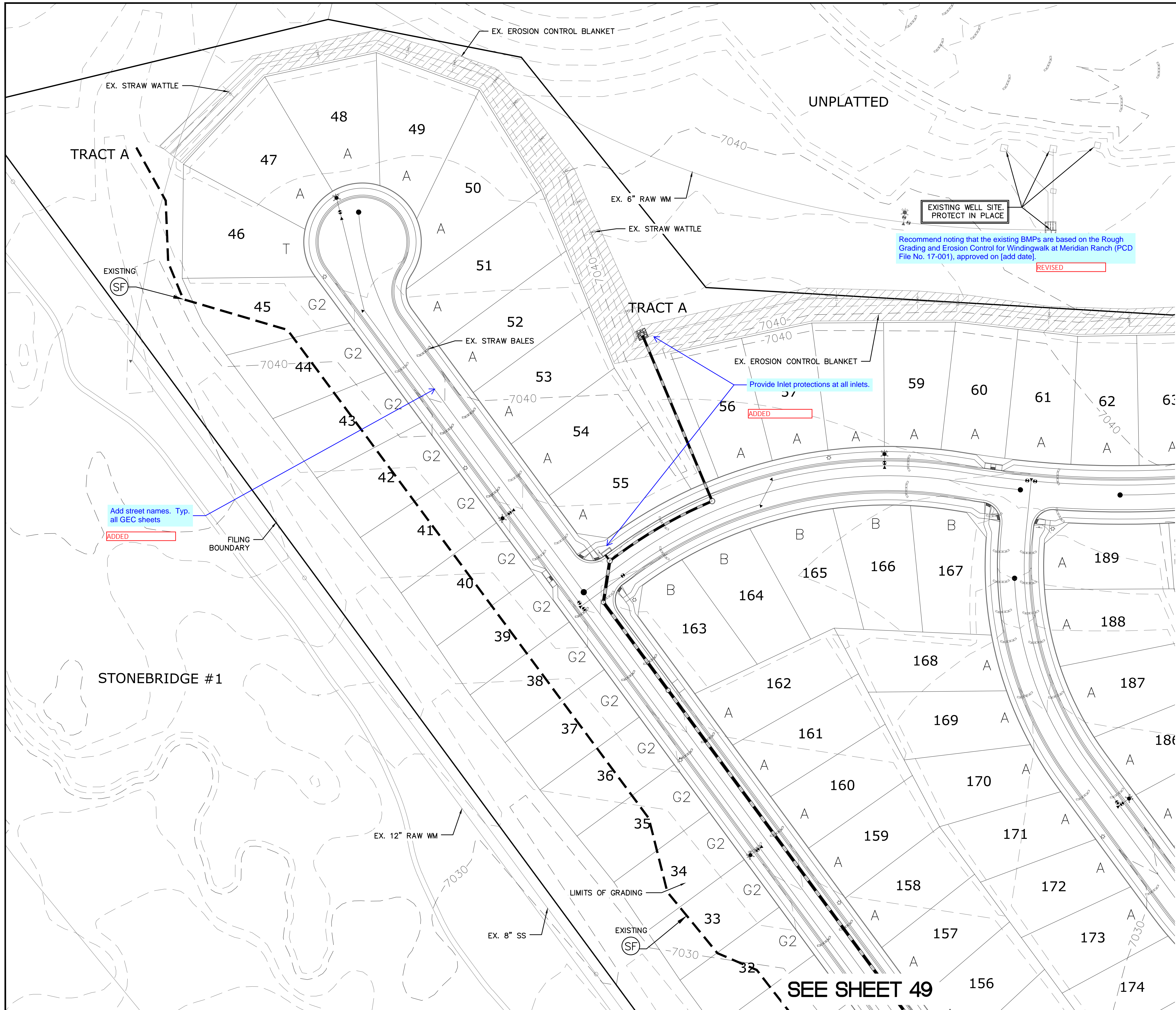


WINDINGWALK FLAT MERIDIAN RANCH  
 GRADING-EROSION CONTROL PLAN  
 GRADING INDEX SHEET

Drawn by	LOG
Checked by	TAK
Date	JAN 2018

Scale  
 AS SHOWN  
 44 of 55

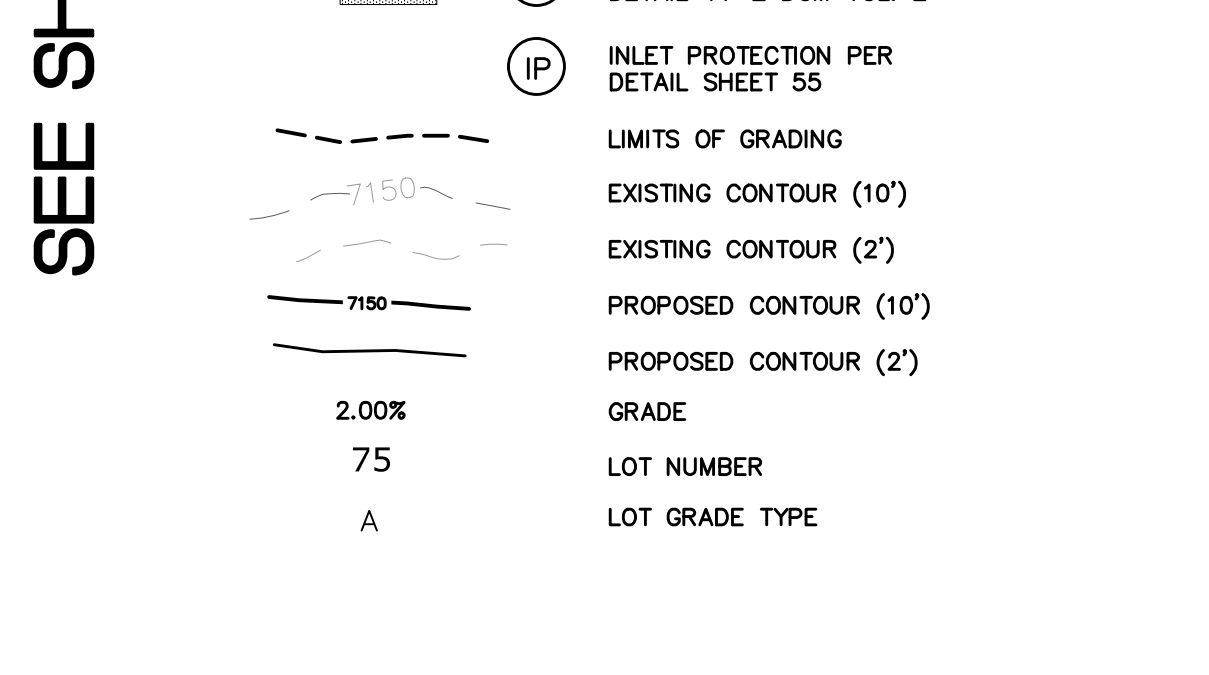
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LEGEND

SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION WATTLES PER DETAIL SHEET 55
[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 55
[Symbol]		LIMITS OF GRADING
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')
[Symbol]		PROPOSED CONTOUR (10')
[Symbol]		PROPOSED CONTOUR (2')
[Symbol]		GRADE
[Symbol]		2.00%
[Symbol]		75
[Symbol]		A
[Symbol]		LOT NUMBER
[Symbol]		LOT GRADE TYPE

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



WINDINGWALK FL AT MERIDIAN RANCH  
GRADING+EROSION CONTROL PLAN  
PLAN SHEET

Drawn by	LOG	Checked by	TAK	Date	JAN 2018
Scale	AS SHOWN	45 of	55		

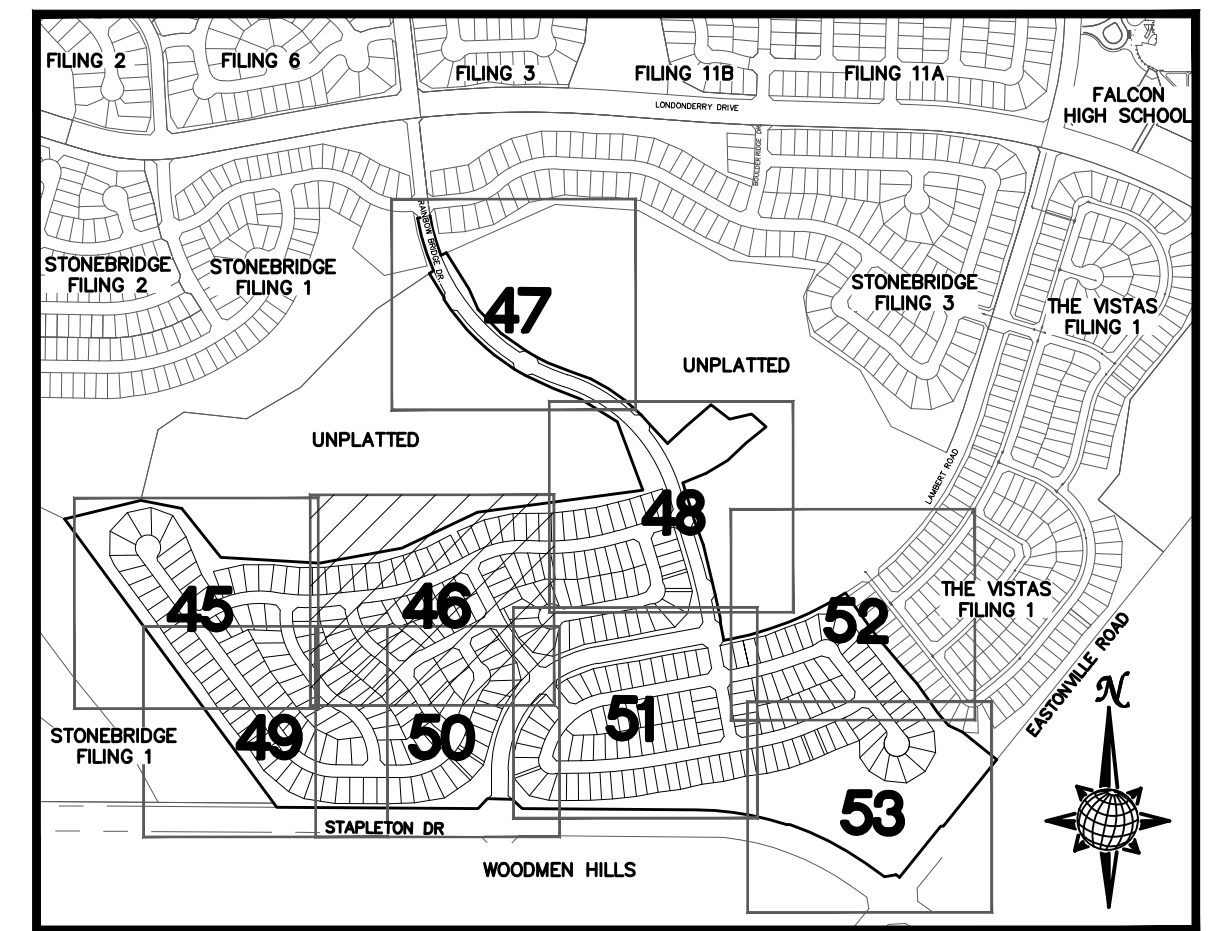
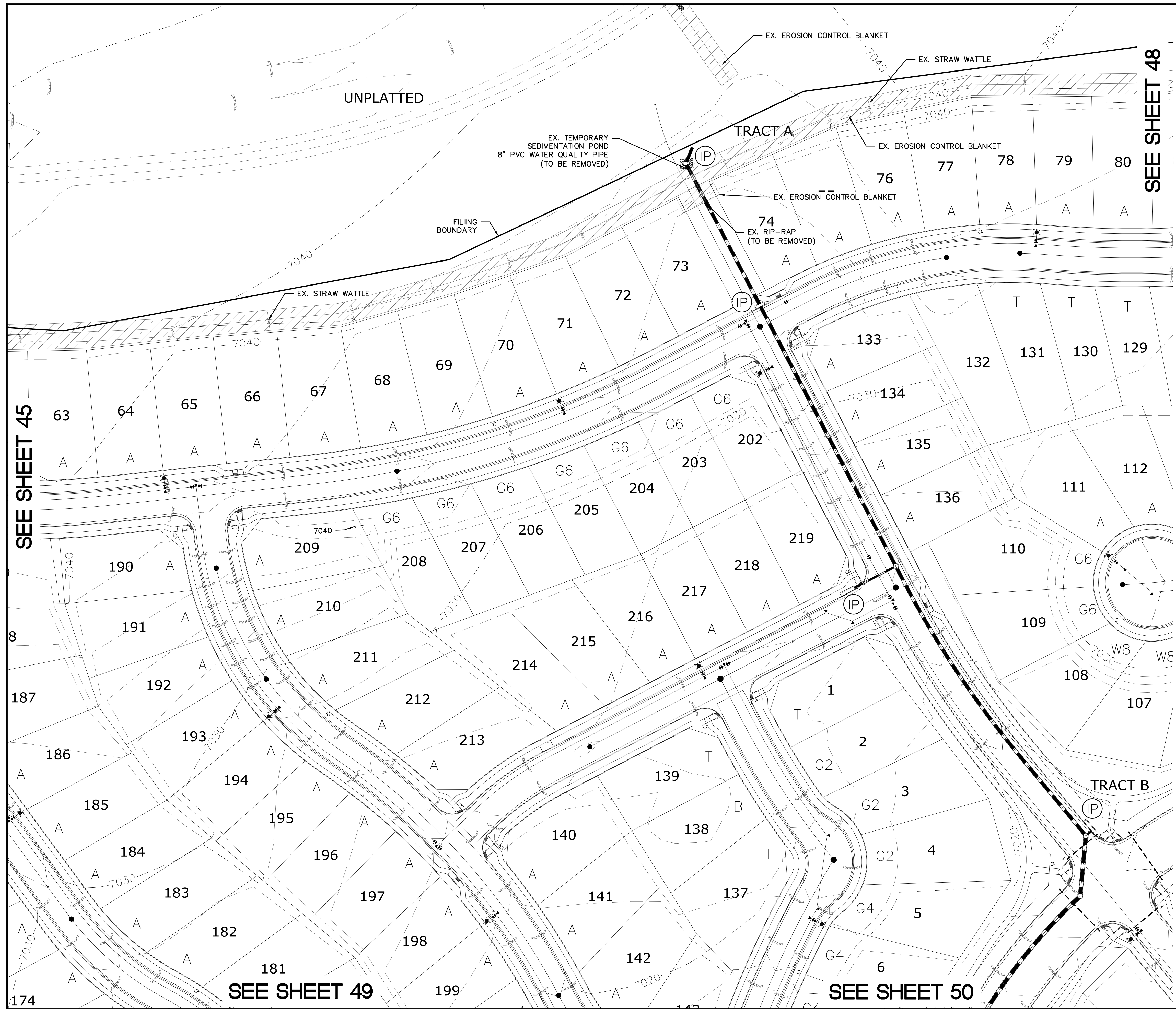
NOTE:  
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 54.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)MERIDIAN RANCH FILING 11  
7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

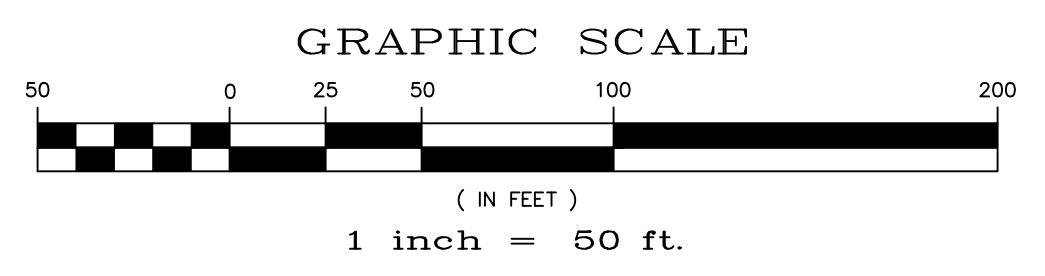
No.	Revisions	Date	Instr.	Appr.	Date



INDEX MAP  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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 55
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A



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 54.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
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2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)MERIDIAN RANCH FILING 11  
7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

SEE SHEET 45

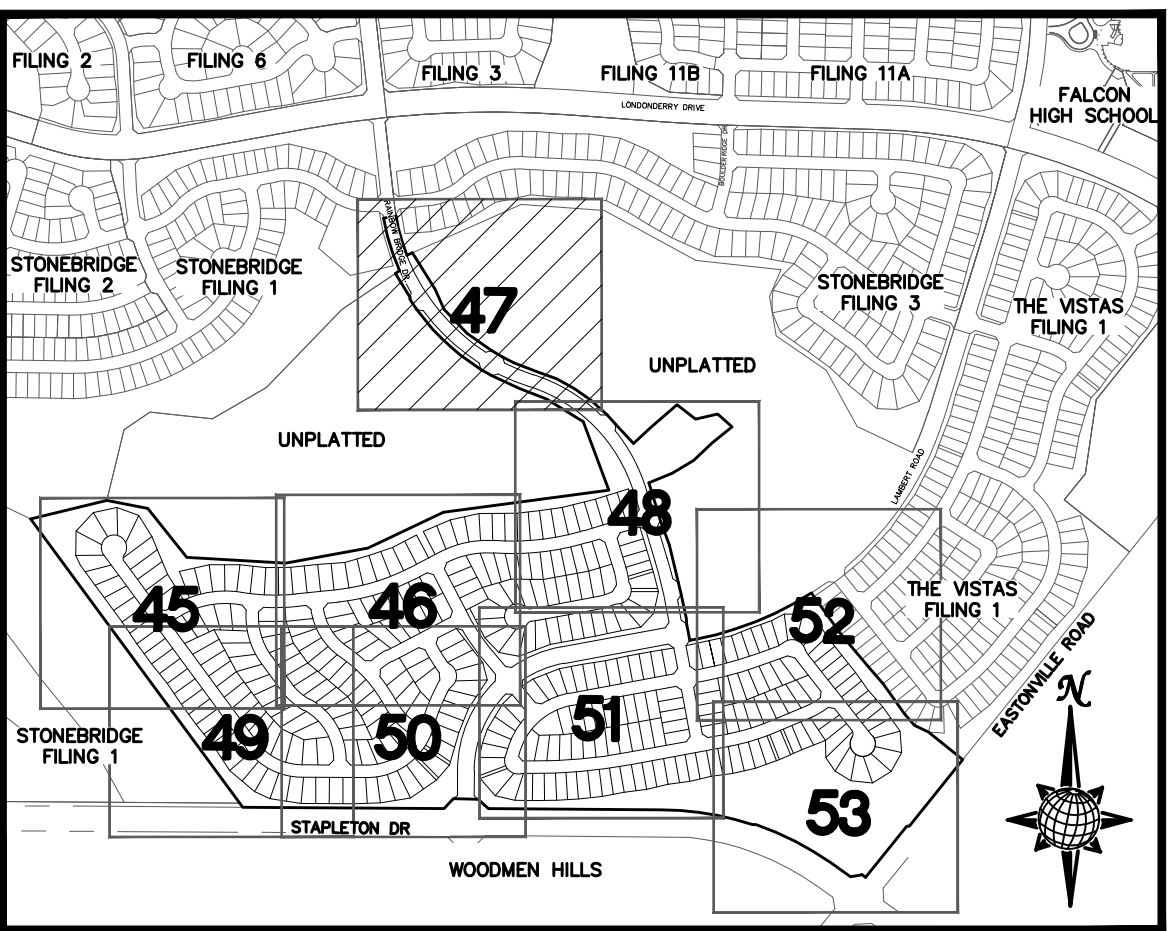
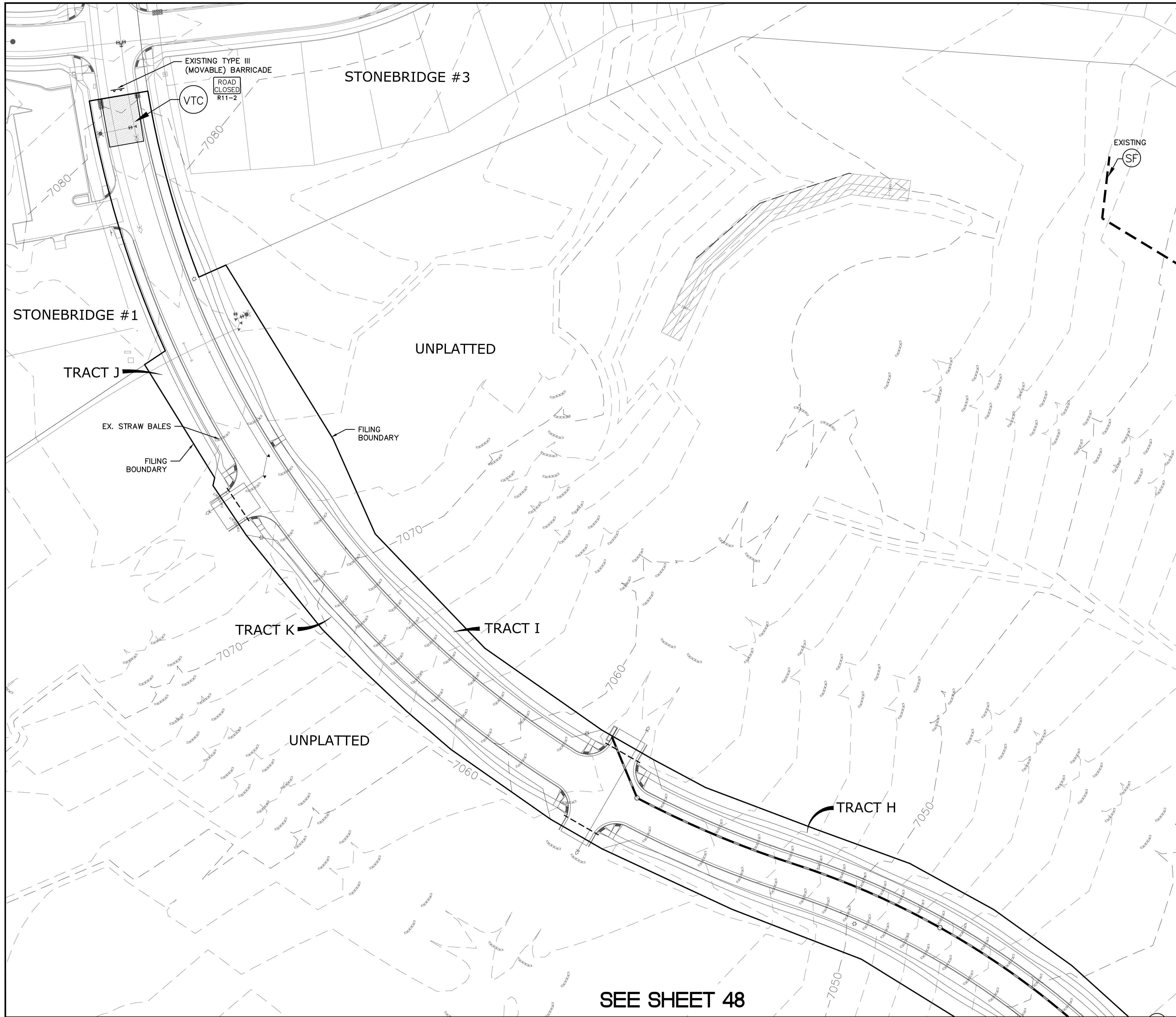
SEE SHEET 48

SEE SHEET 51

SEE SHEET 49

SEE SHEET 50

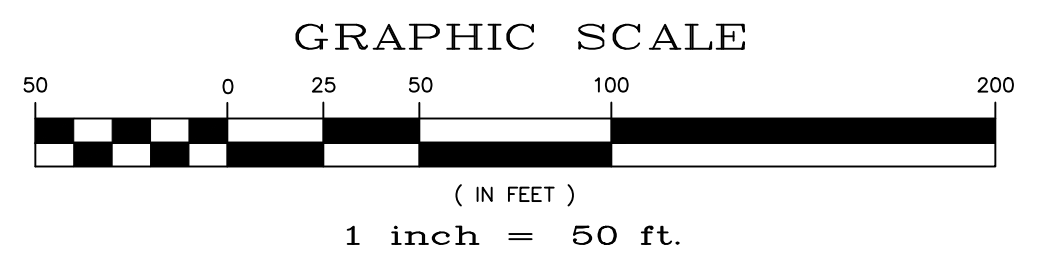
No.	Revisions	Date	Appr.	Date
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.2444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				
WINDINGWALK FLAT MERIDIAN RANCH		GRADING/EROSION CONTROL PLAN		PLAN SHEET
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2018
Scale	46 of 55			



INDEX MAP  
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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 55
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE 2.00%
		LOT NUMBER 75
		LOT GRADE TYPE A



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 54.

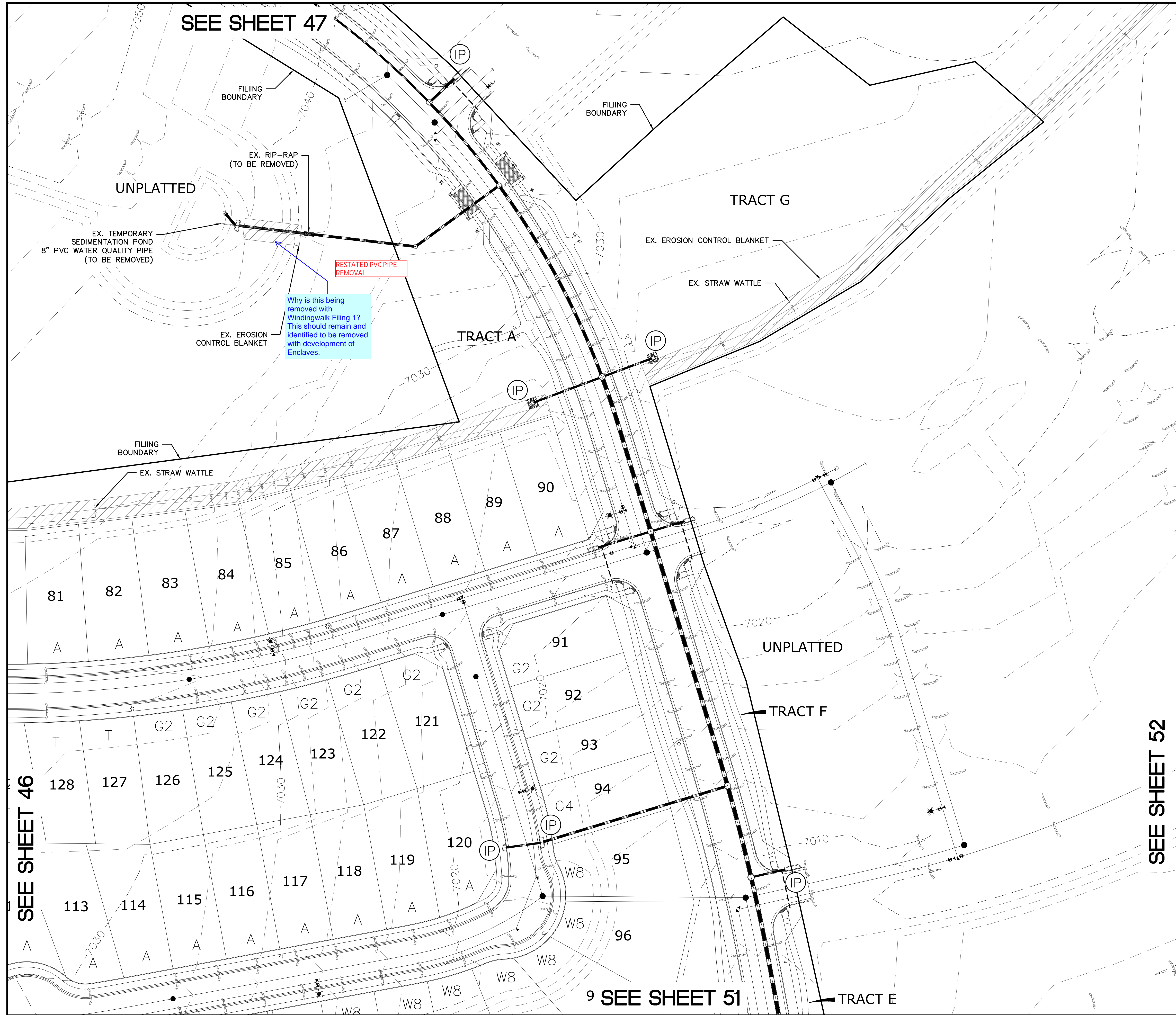
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)MERIDIAN RANCH FILING 11  
7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

SEE SHEET 48

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	
WINDINGWALK FL AT MERIDIAN RANCH	PLAN SHEET
GRADING+EROSION CONTROL PLAN	
Drawn by LOG	Checked by TKR
Scale AS SHOWN	Date JAN 2018
9 of 55	
REVISIONS	
No.	Date
Appr.	Date

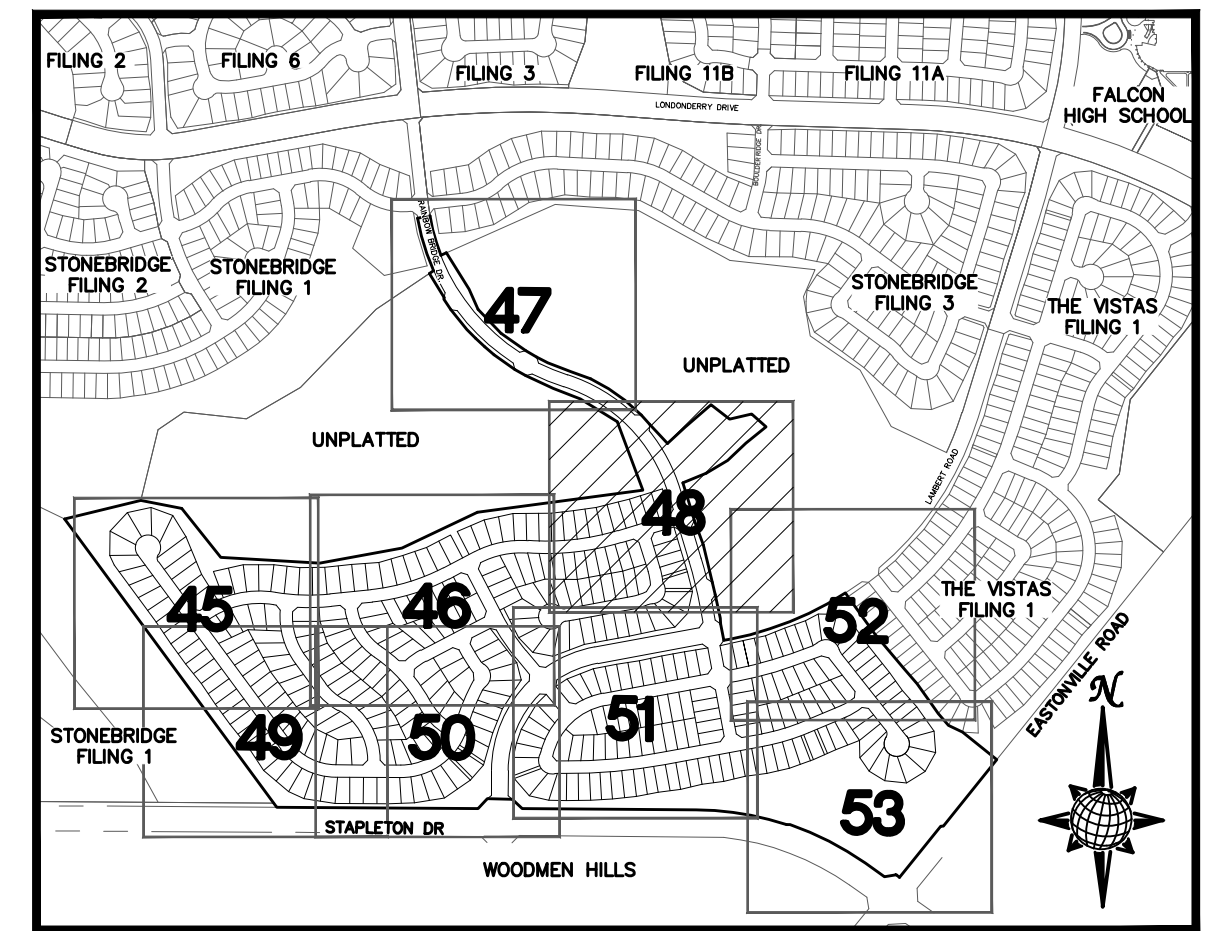


SEE SHEET 47

SEE SHEET 46

SEE SHEET 52

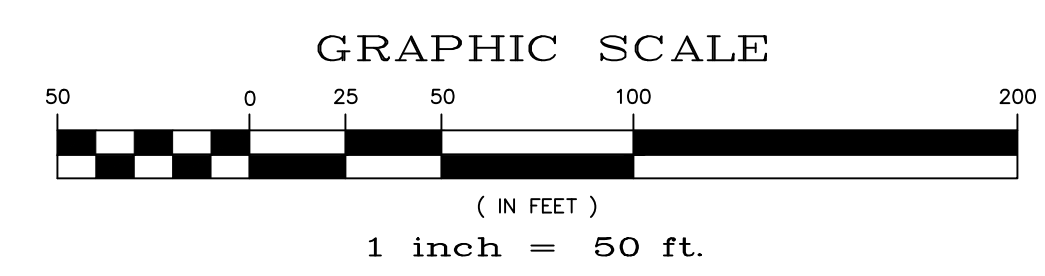
SEE SHEET 51



INDEX MAP  
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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
	VT	VEHICLE TRACKING CONTROL PER DETAIL SHEET 55
	IP	INLET PROTECTION PER DETAIL SHEET 55
		LIMITS OF GRADING
		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 SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 54.

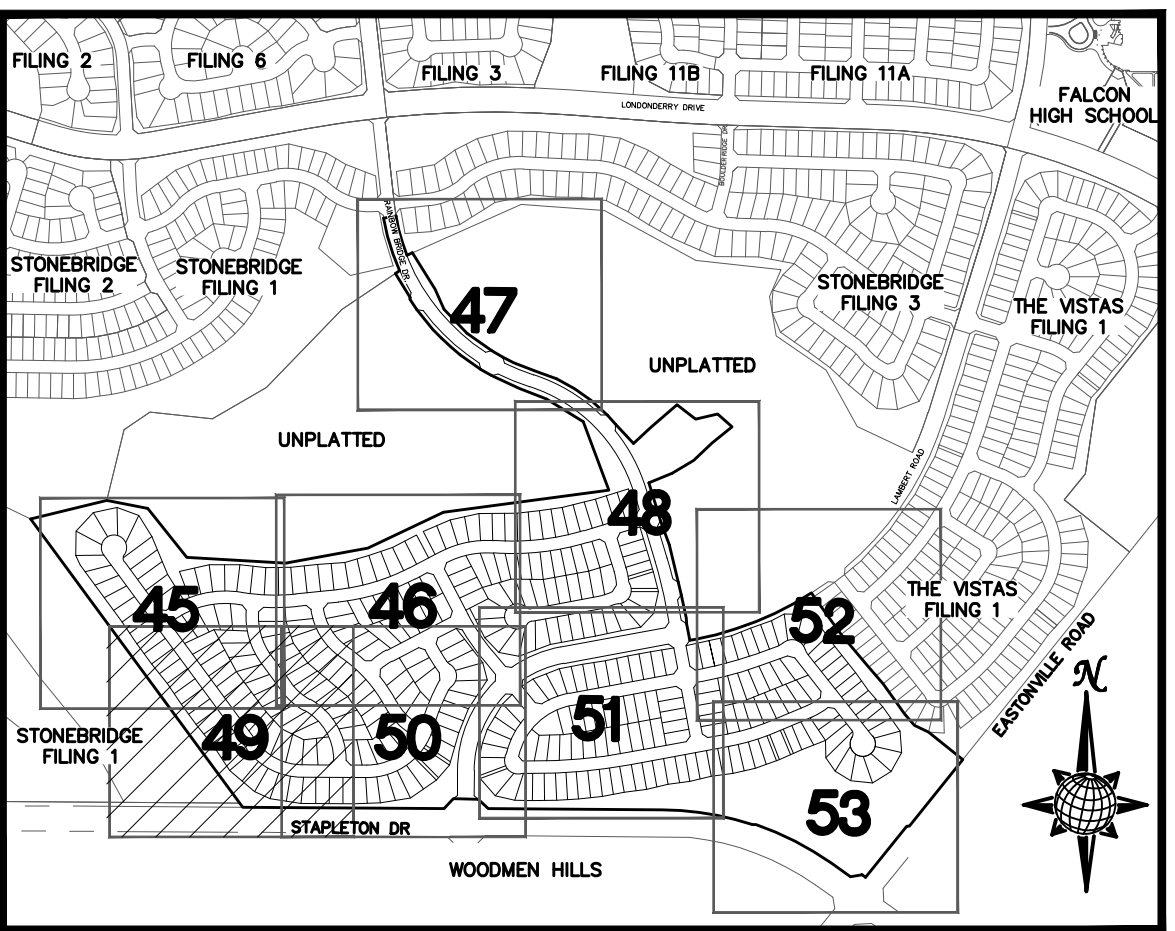
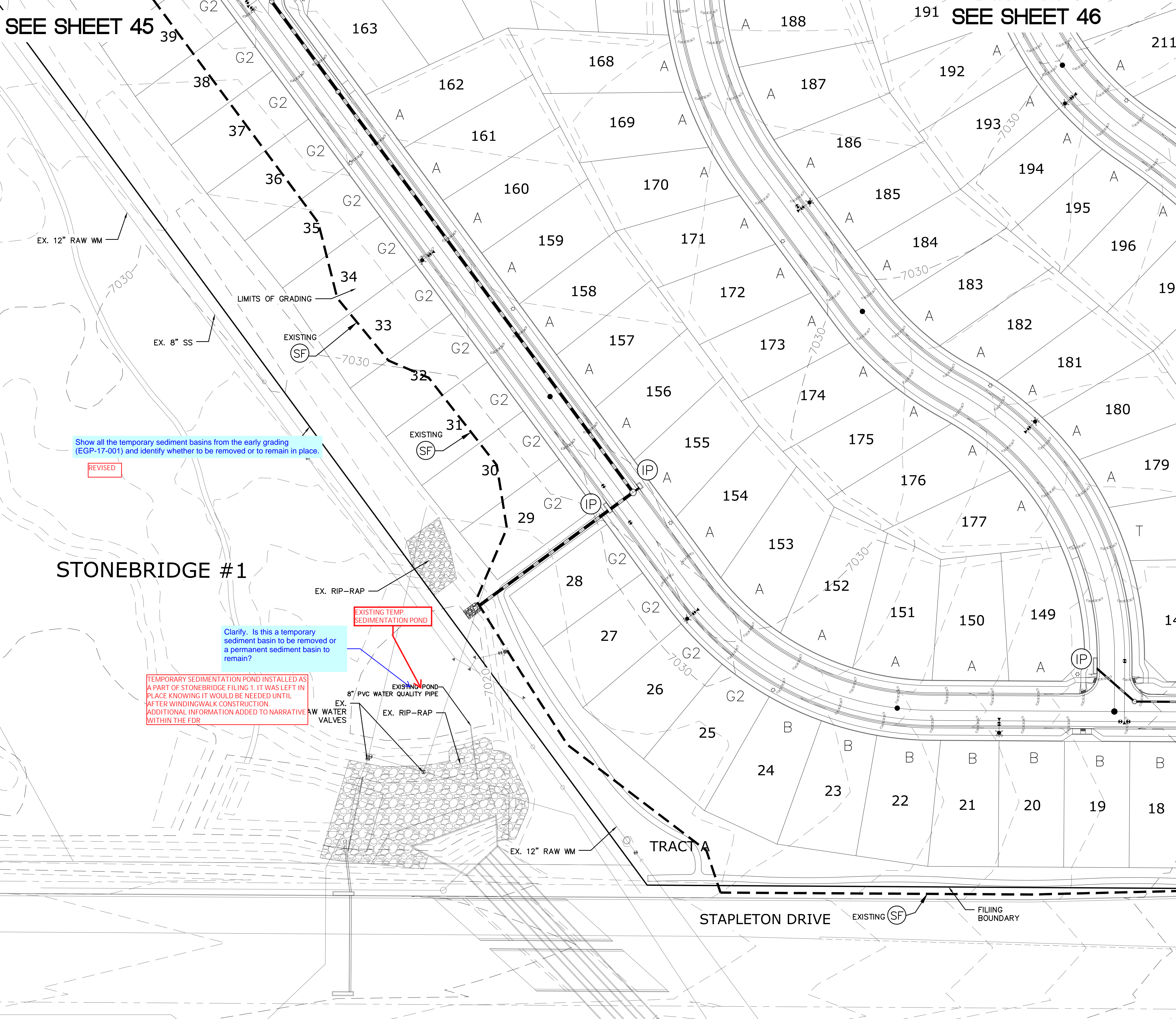
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)MERIDIAN RANCH FILING 11  
7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

		Date
		Appr.
		Date
		Revisions
No.		
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
<b>MERIDIAN RANCH</b>		
WINDINGWALK FL AT MERIDIAN RANCH	GRADING+EROSION CONTROL PLAN	PLAN SHEET
Drawn by LGA	Checked by TAK	Date JUN 2018
Scale AS SHOWN	48 of 55	



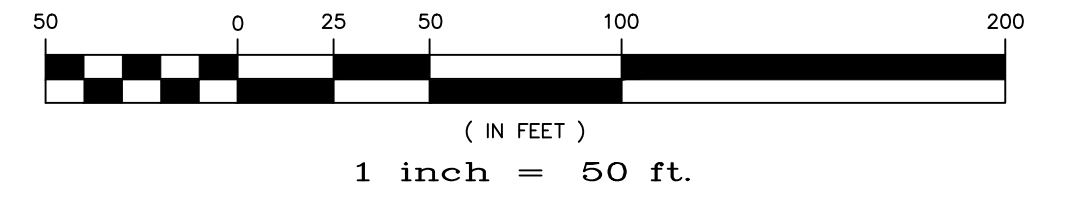


**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 55
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE

**GRAPHIC SCALE**



NOTE:  
ALL CONTOURS SHOWN IN 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 54.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
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4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
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7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

Show all the temporary sediment basins from the early grading (EGP-17-001) and identify whether to be removed or to remain in place.

REVISED

Clarify. Is this a temporary sediment basin to be removed or a permanent sediment basin to remain?

TEMPORARY SEDIMENTATION POND INSTALLED AS A PART OF STONEBRIDGE FILING 1. IT WAS LEFT IN PLACE KNOWING IT WOULD BE NEEDED UNTIL AFTER WINDINGWALK CONSTRUCTION. ADDITIONAL INFORMATION ADDED TO NARRATIVE WITHIN THE FDR

No.	Revisions	Date	Appr.	Date

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

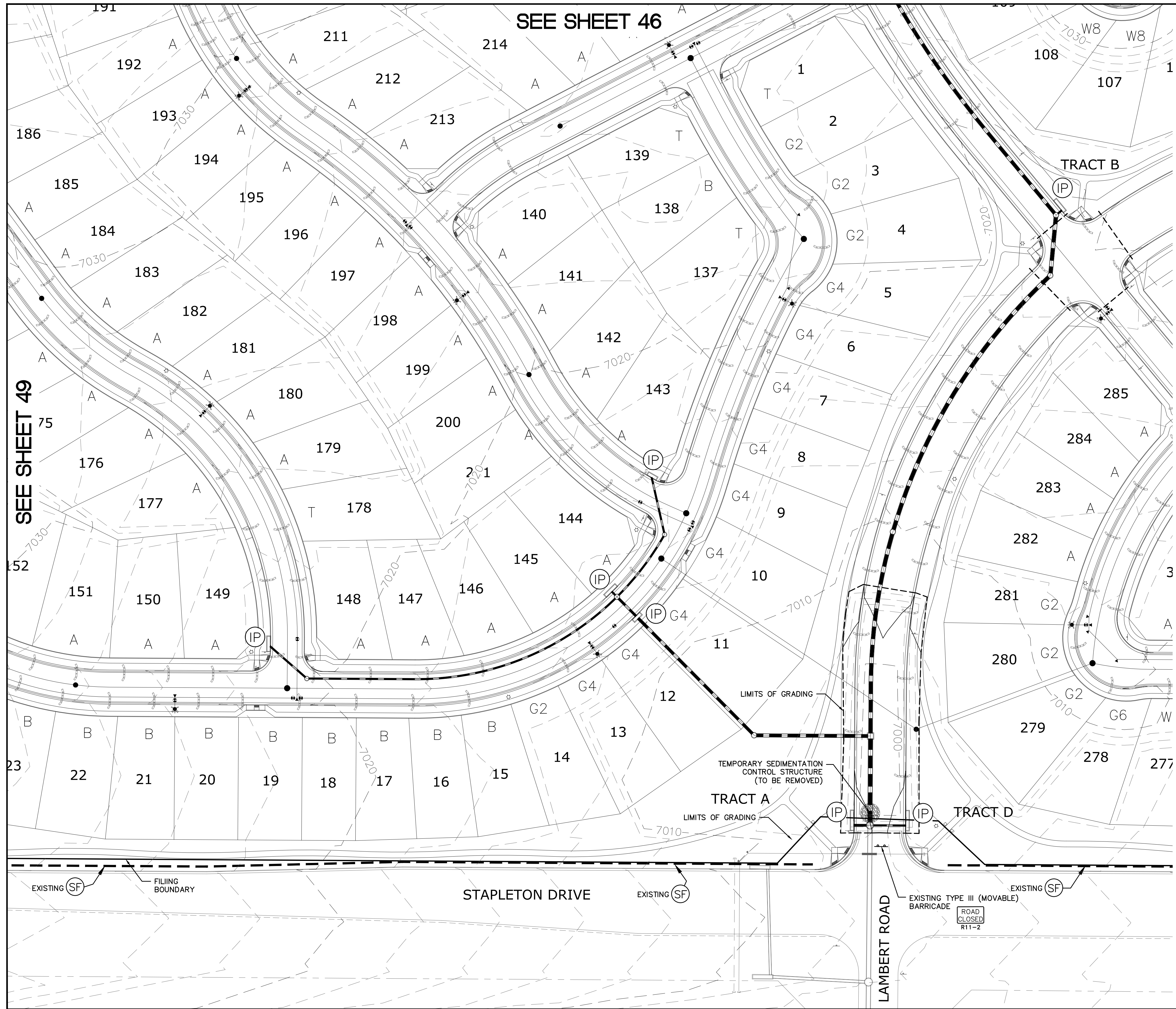


WINDINGWALK FL AT MERIDIAN RANCH  
GRADING+EROSION CONTROL PLAN  
PLAN SHEET

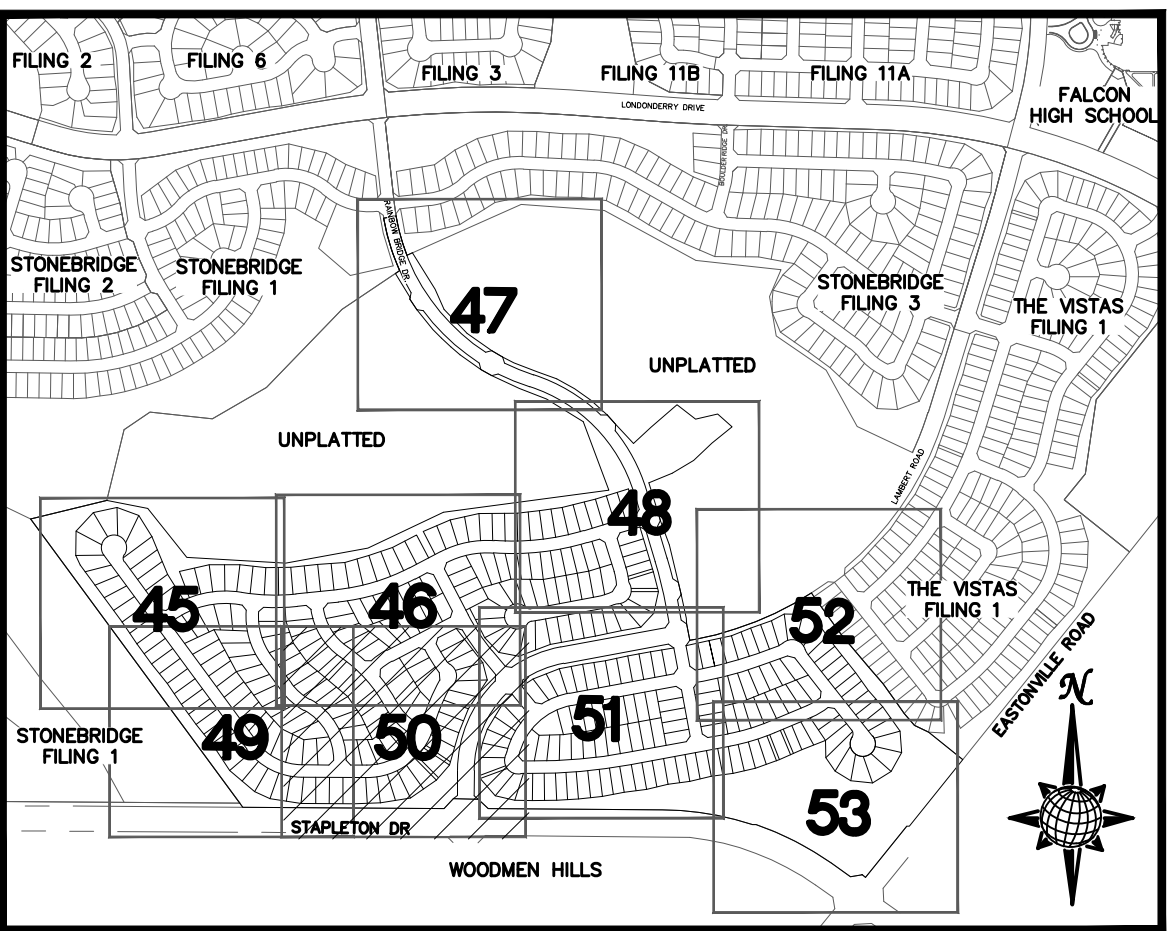
Drawn by LCA  
Checked by TAK  
Date JAN 2018

Scale AS SHOWN  
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Scale AS SHOWN  
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SEE SHEET 46

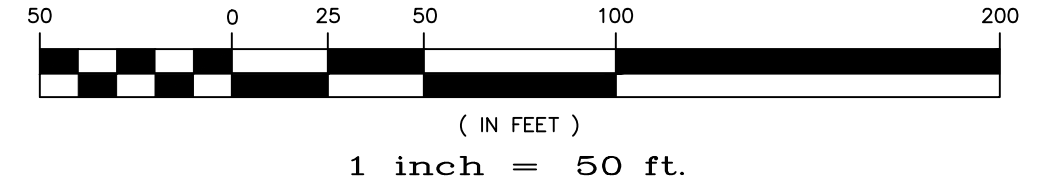


INDEX MAP  
N.T.S.

LEGEND

- | SYMBOL | ACRONYM | DESCRIPTION   |
|--------|---------|---|
|        |         | STRAW BALES   |
|        |         | EROSION WATTLES PER DETAIL SHEET 55                         |
|        |         | 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          |
|        | UTC     | VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2         |
|        | IP      | INLET PROTECTION PER DETAIL SHEET 55                        |
|        |         | LIMITS OF GRADING   |
|        |         | EXISTING CONTOUR (10')                                      |
|        |         | EXISTING CONTOUR (2')                                       |
|        |         | PROPOSED CONTOUR (10')                                      |
|        |         | PROPOSED CONTOUR (2')                                       |
|        |         | GRADE   |
|        |         | LOT NUMBER  |
|        |         | LOT GRADE TYPE  |

GRAPHIC SCALE



NOTE:  
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4) STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5) GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6) MERIDIAN RANCH FILING 11  
7) VISTAS FILING 1 AT MERIDIAN RANCH

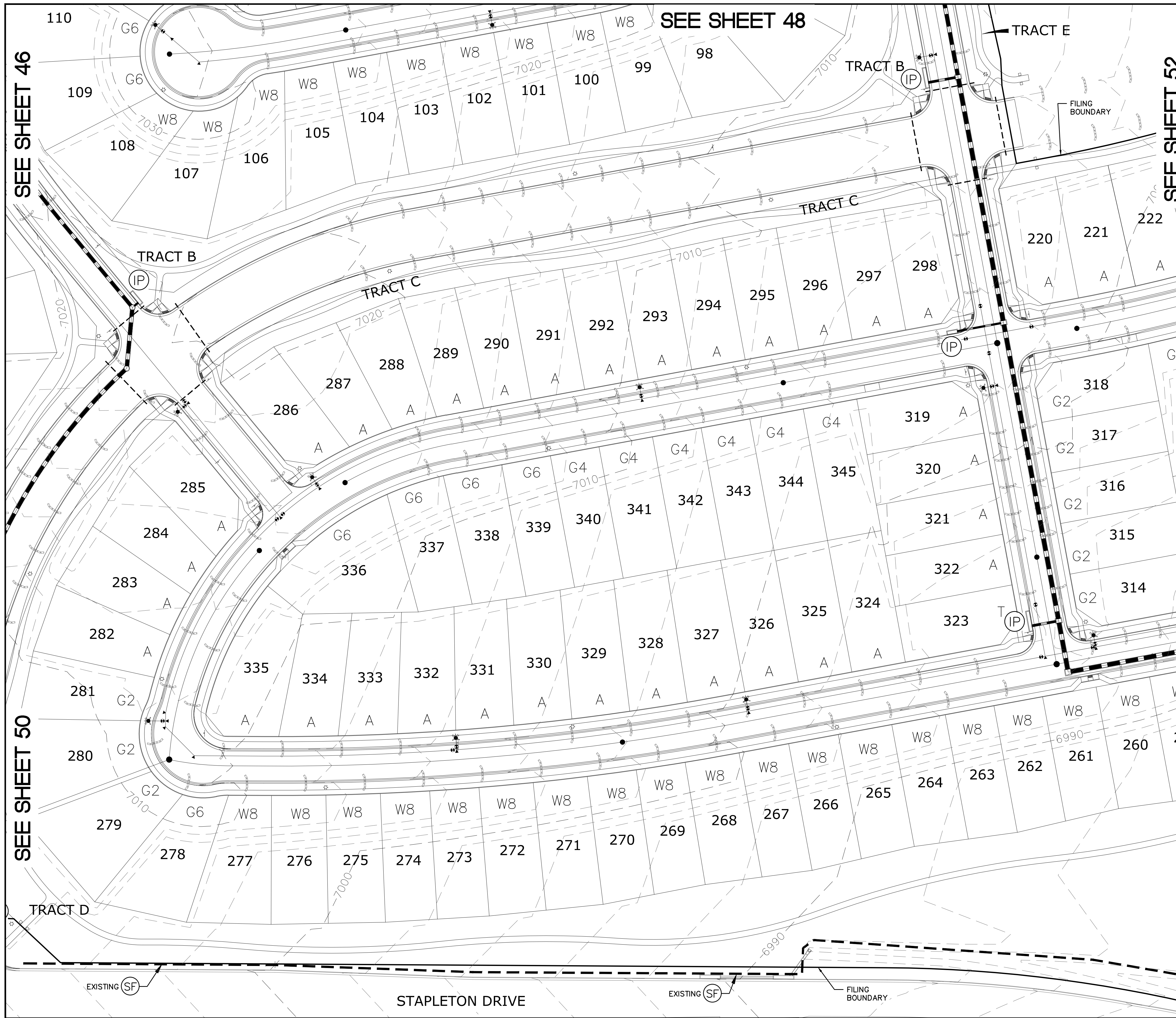
TWO WORKING DAYS  
**BEFORE YOU DIG CALL 811**

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

SEE SHEET 49

SEE SHEET 51

		Date
		Appr.
		Date
		Revisions
		No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
 <b>MERIDIAN RANCH</b>		
WINDINGWALK FL AT MERIDIAN RANCH	GRADING-EROSION CONTROL PLAN	PLAN SHEET
Drawn by LGA	Checked by TKK	Date JAN 2018
Scale AS SHOWN	50 of 55	



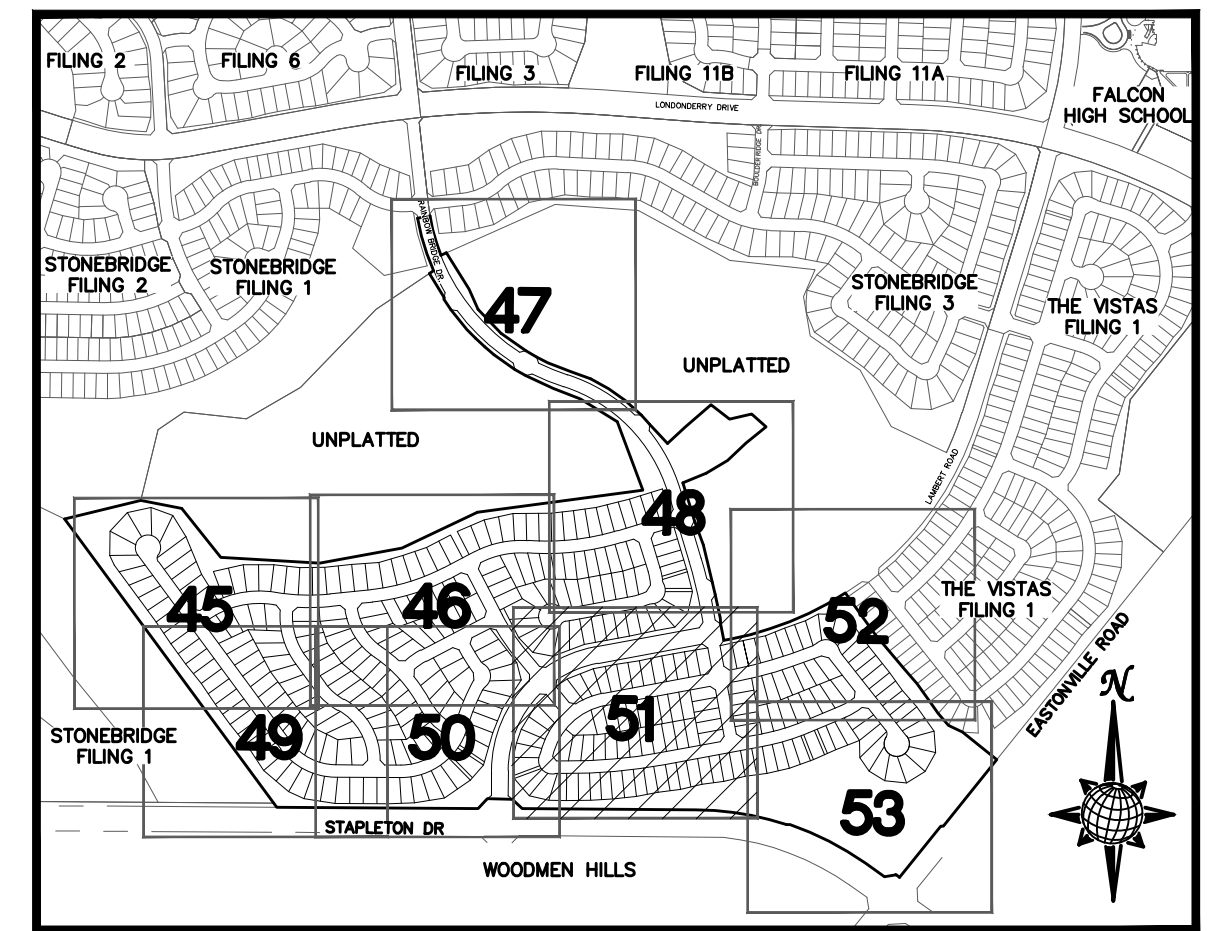
SEE SHEET 48

SEE SHEET 46

SEE SHEET 52

SEE SHEET 50

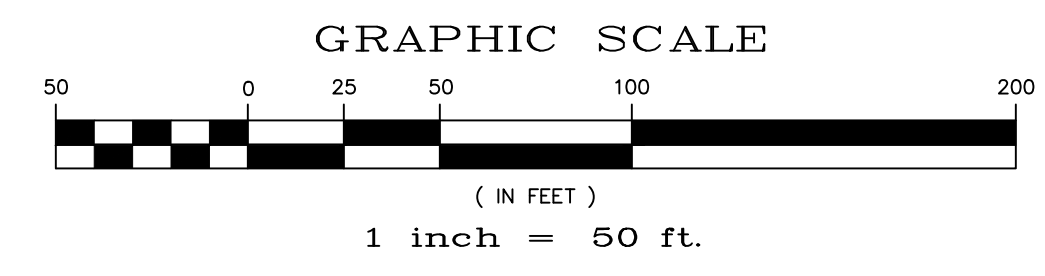
SEE SHEET 53



INDEX MAP  
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 55
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE



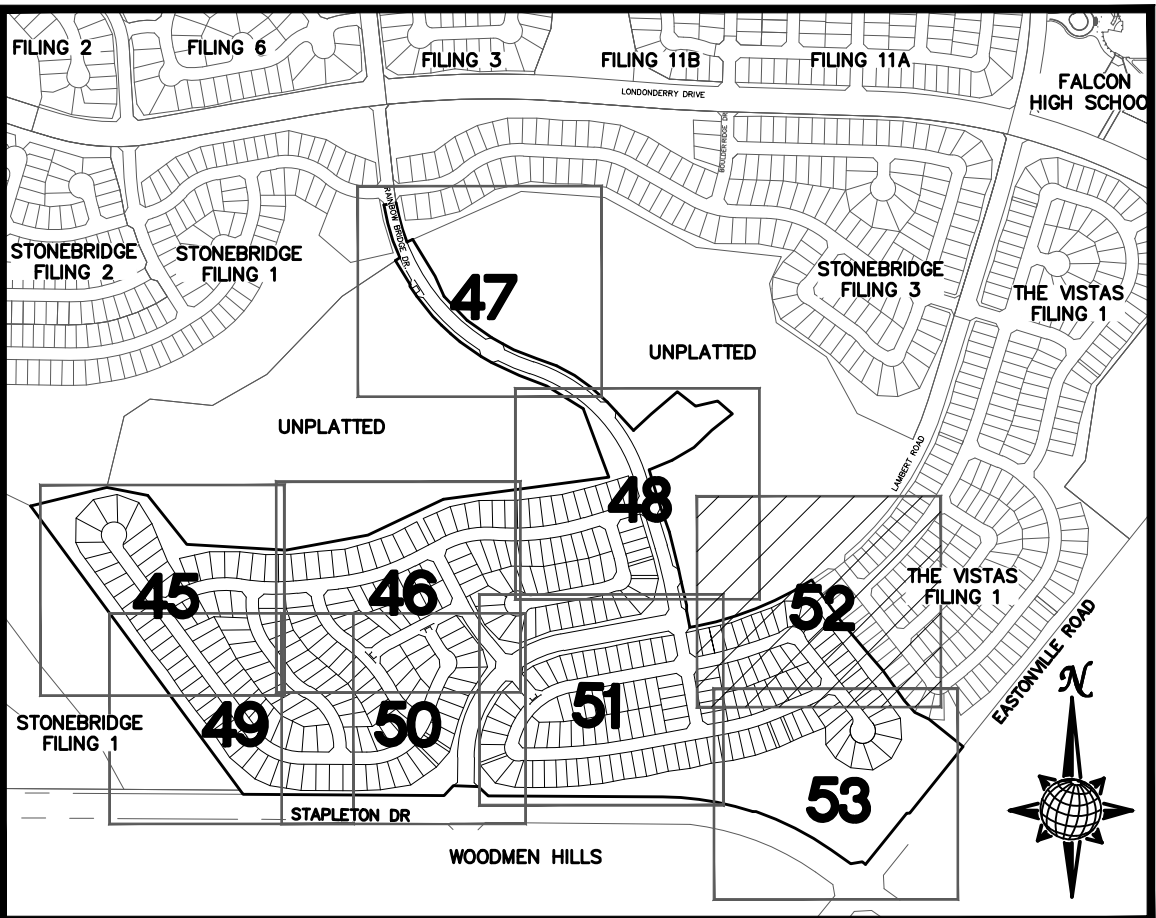
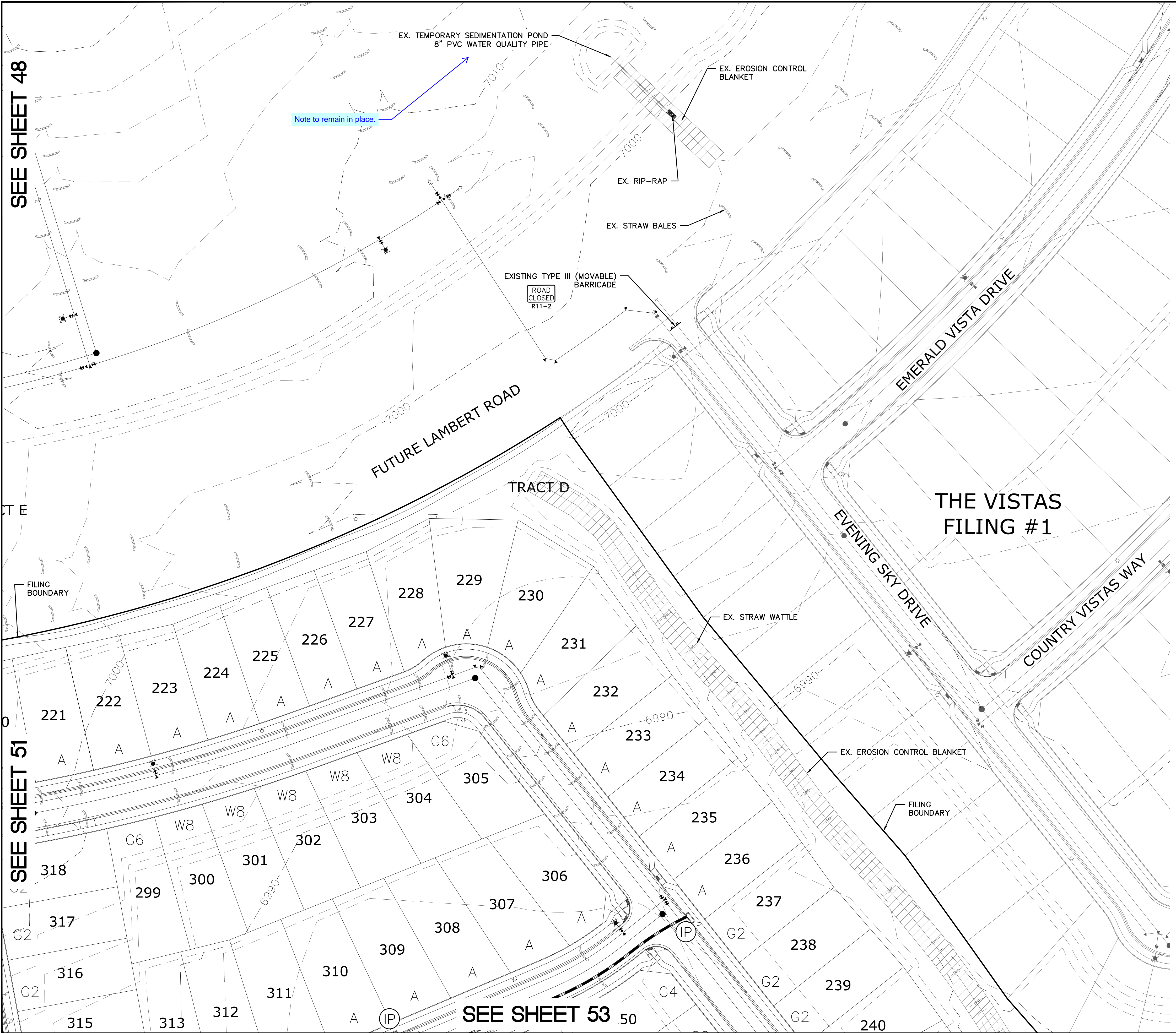
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1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS  
5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
6)MERIDIAN RANCH FILING 11  
7)VISTAS FILING 1 AT MERIDIAN RANCH

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

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

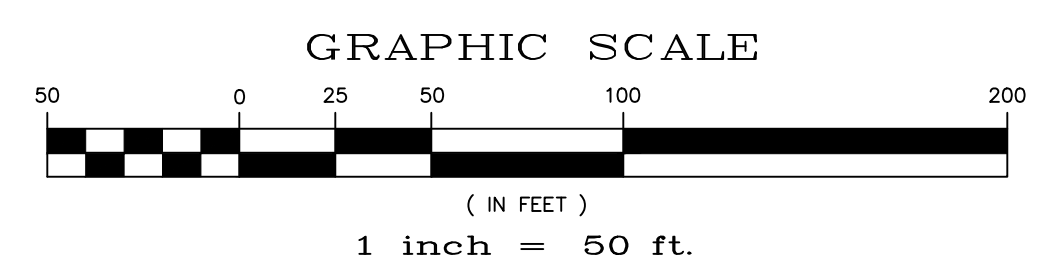
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		WINDINGWALK FL AT MERIDIAN RANCH		GRADING/EROSION CONTROL PLAN		PLAN SHEET	
Drawn by	LOG	Checked by	TAK	Date	JUN 2018	Scale	AS SHOWN	51	of 55
Revisions	No.	Date	Appr.	Date					



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

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 55
		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 55
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		2.00% GRADE
		75 LOT NUMBER
		A LOT GRADE TYPE



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 54.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH  
2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH  
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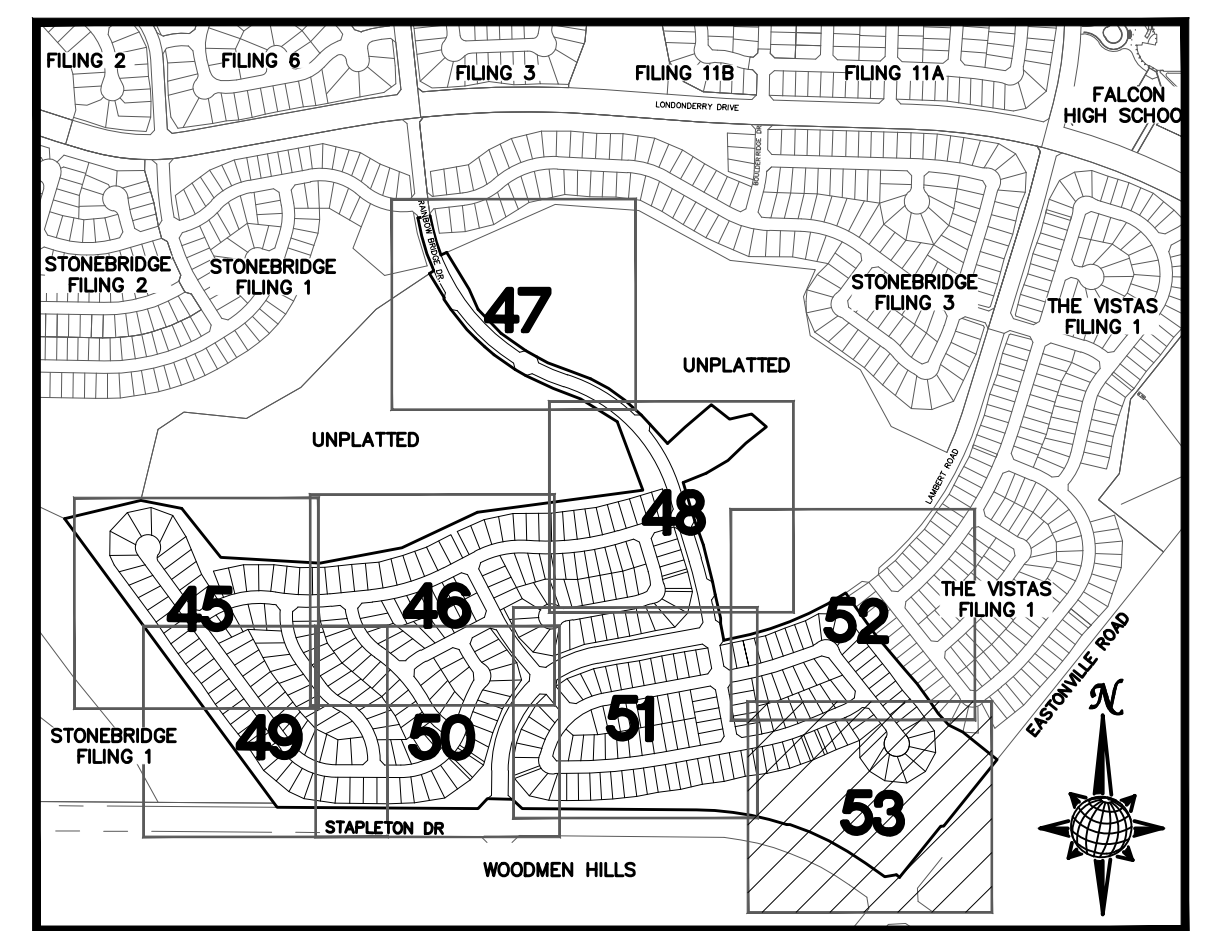
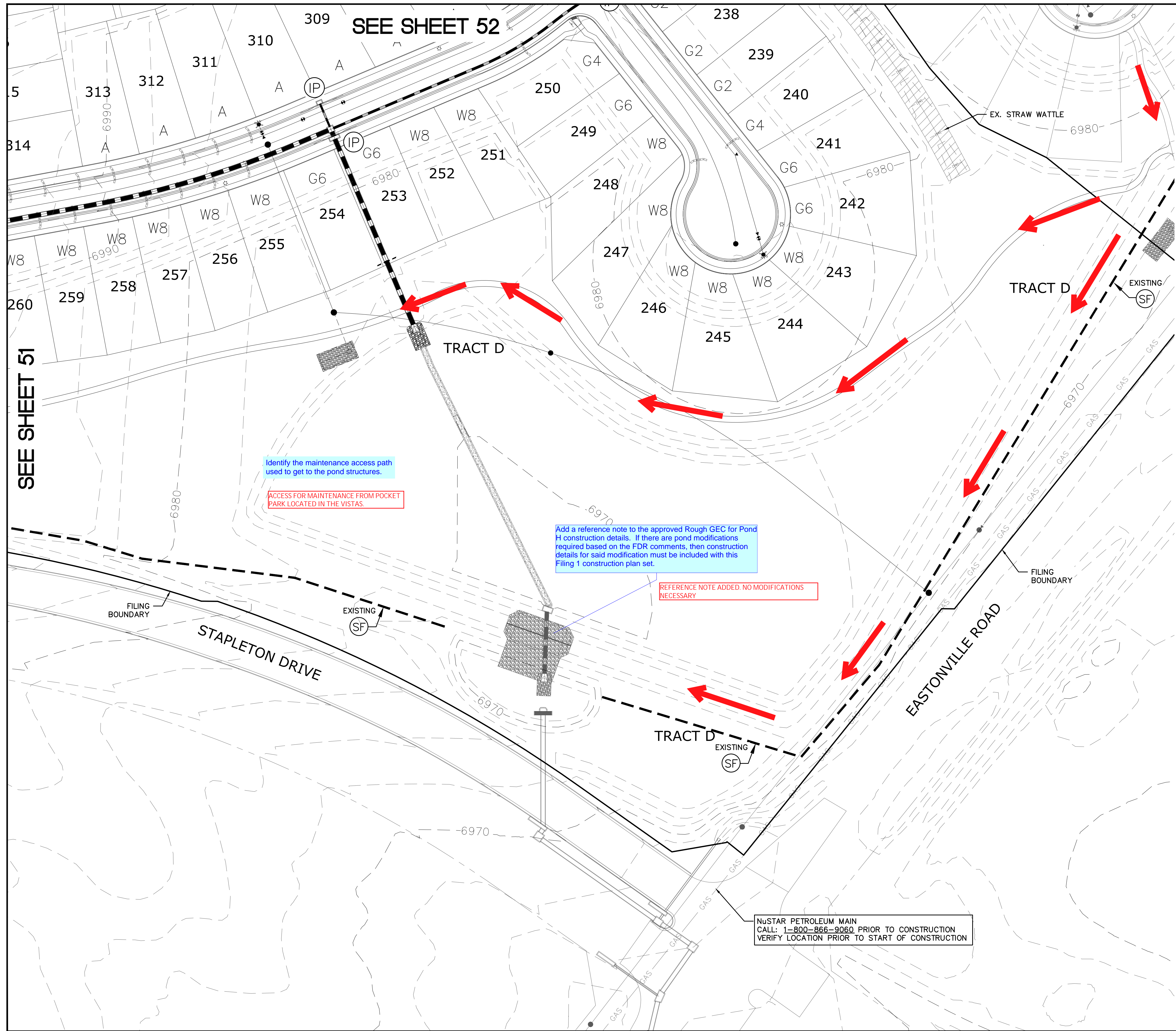


SEE SHEET 48

SEE SHEET 51

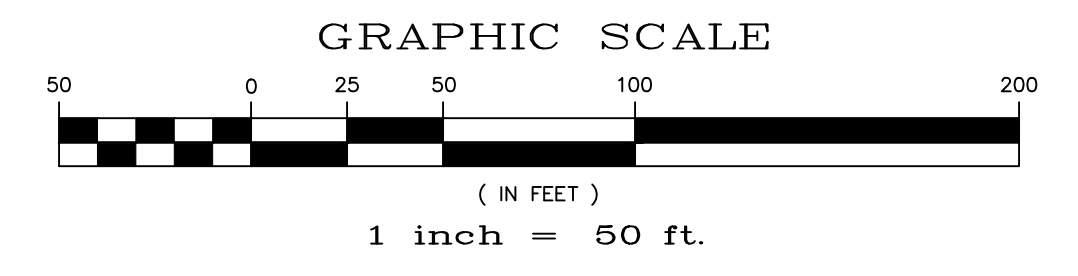
SEE SHEET 53

				Date
				Appr.
				Date
				Revisions
				No.
		TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
		<b>MERIDIAN RANCH</b>		
		WINDINGWALK FL AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN		
		PLAN SHEET		
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JUN 2018
Scale		52 of	55	



**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION WATTLES PER DETAIL SHEET 55
[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 55
[Symbol]		LIMITS OF GRADING
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')
[Symbol]		PROPOSED CONTOUR (10')
[Symbol]		PROPOSED CONTOUR (2')
[Symbol]		2.00% GRADE
[Symbol]	75	LOT NUMBER
[Symbol]	A	LOT GRADE TYPE

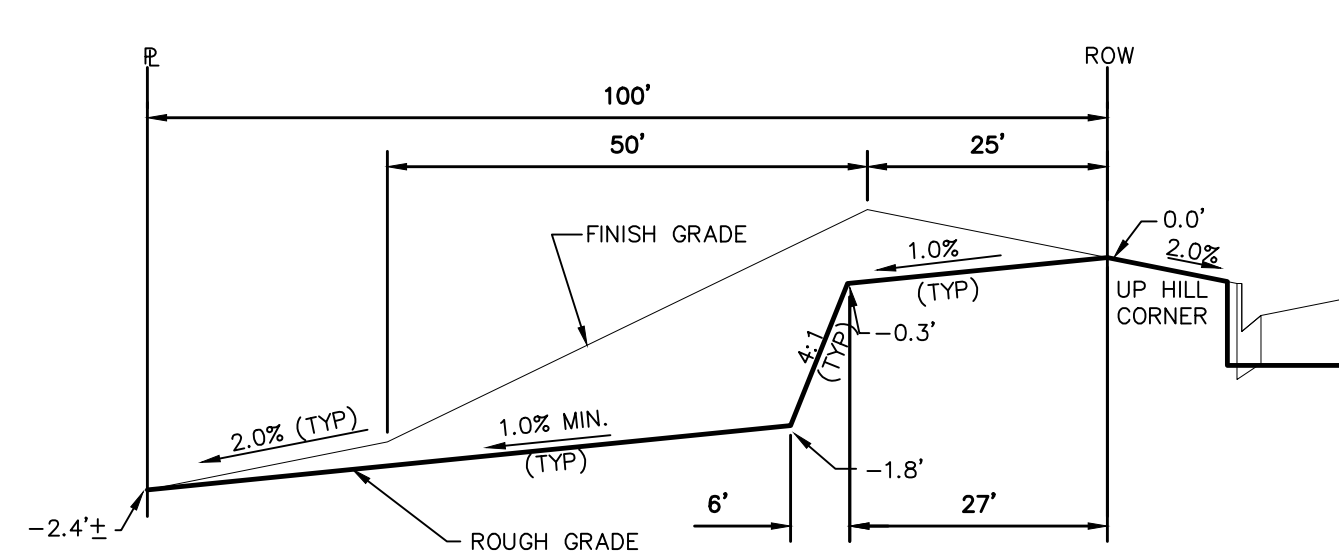


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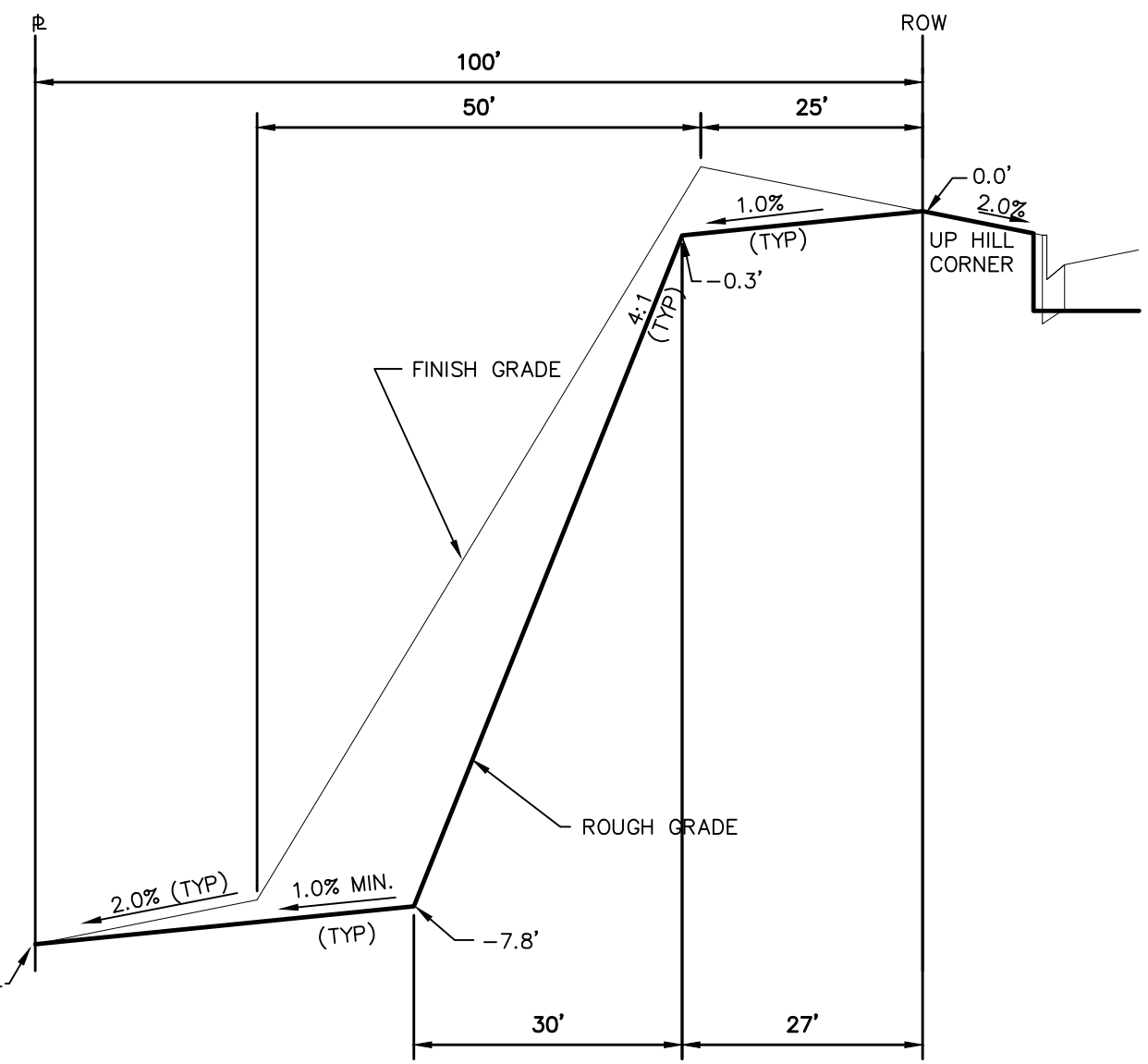
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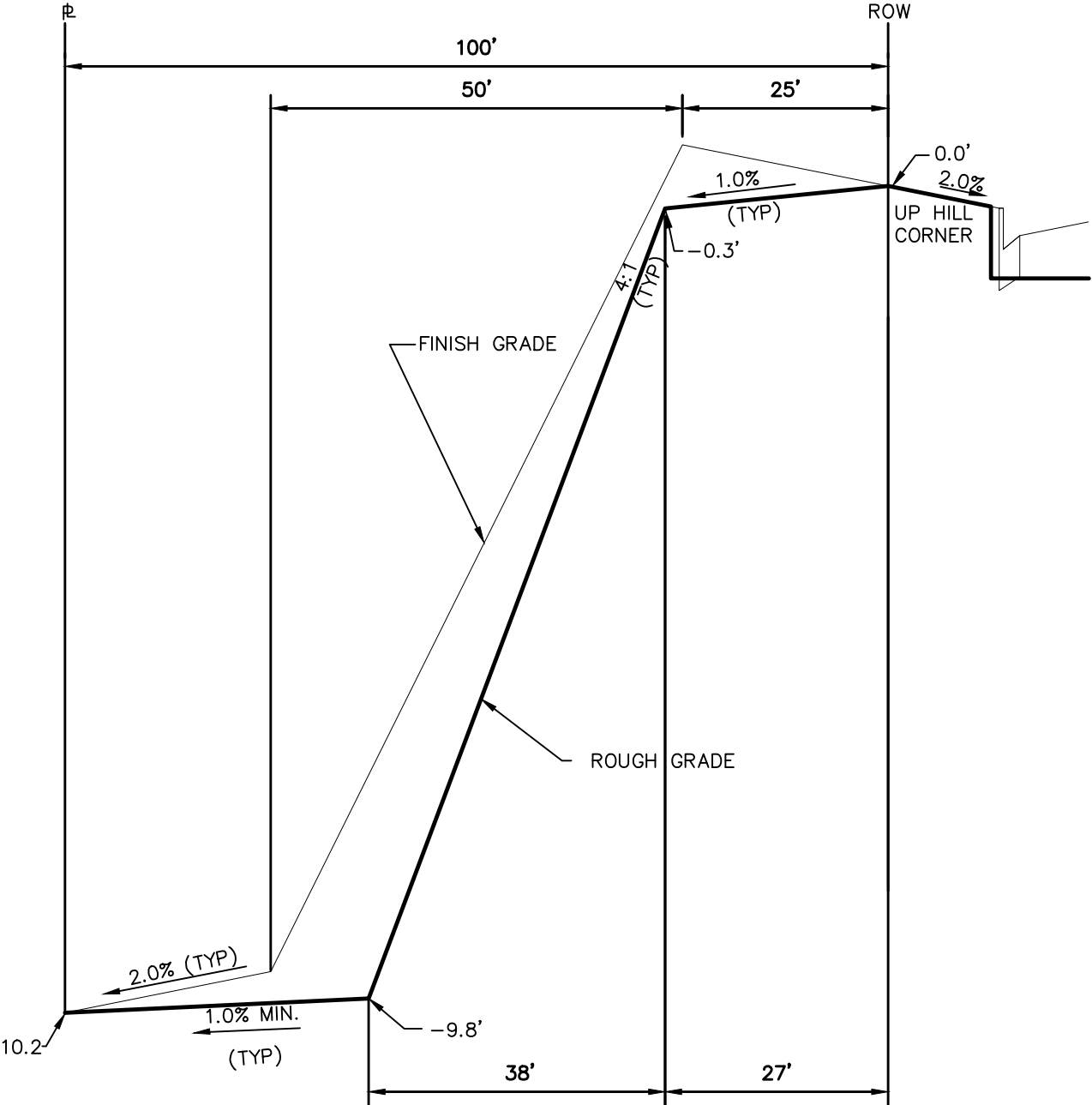
Scale	AS SHOWN	53 of 55			
Drawn by	LOG	Checked by	TAK	Date	JAN 2018
WINDINGWALK FL AT MERIDIAN RANCH		GRADING+EROSION CONTROL PLAN		PLAN SHEET	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		No.	Revisions
Date	Appr.	Date	Instr.	Date	Appr.



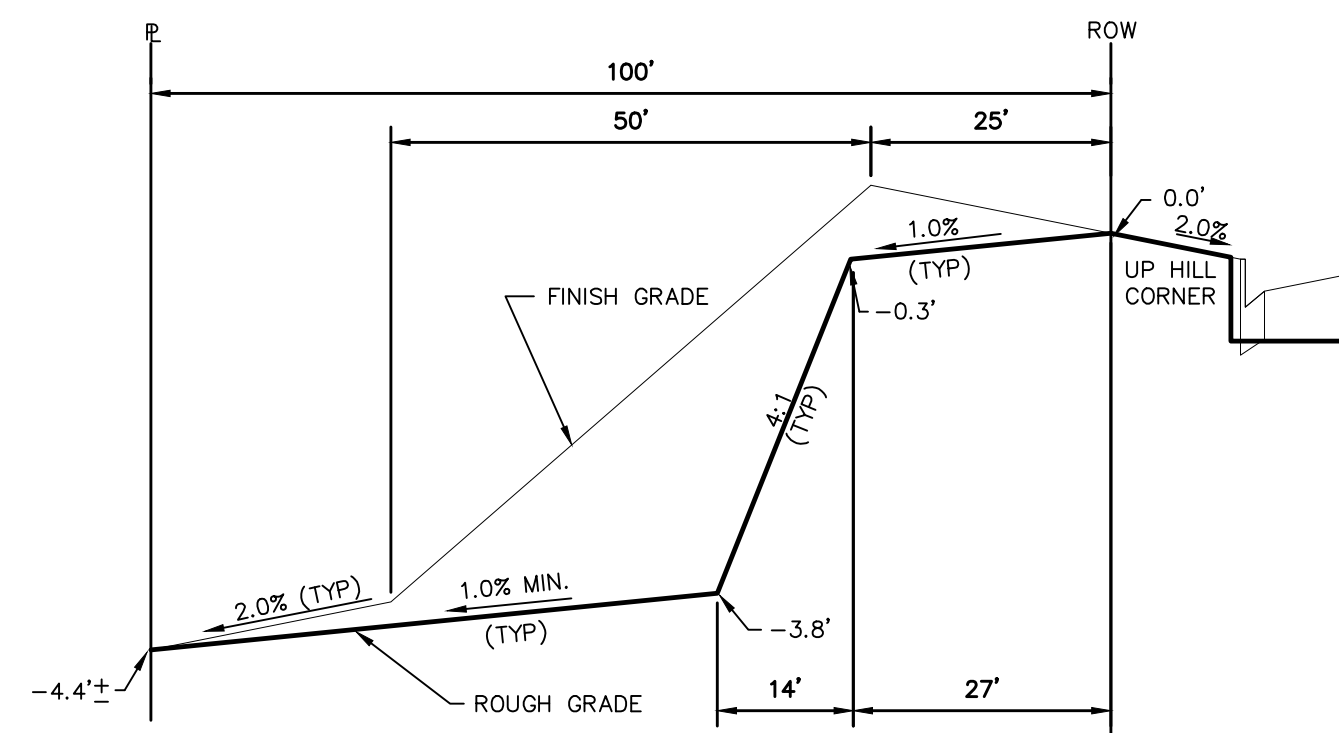
TYPICAL LOT "G2" TEMPLATES



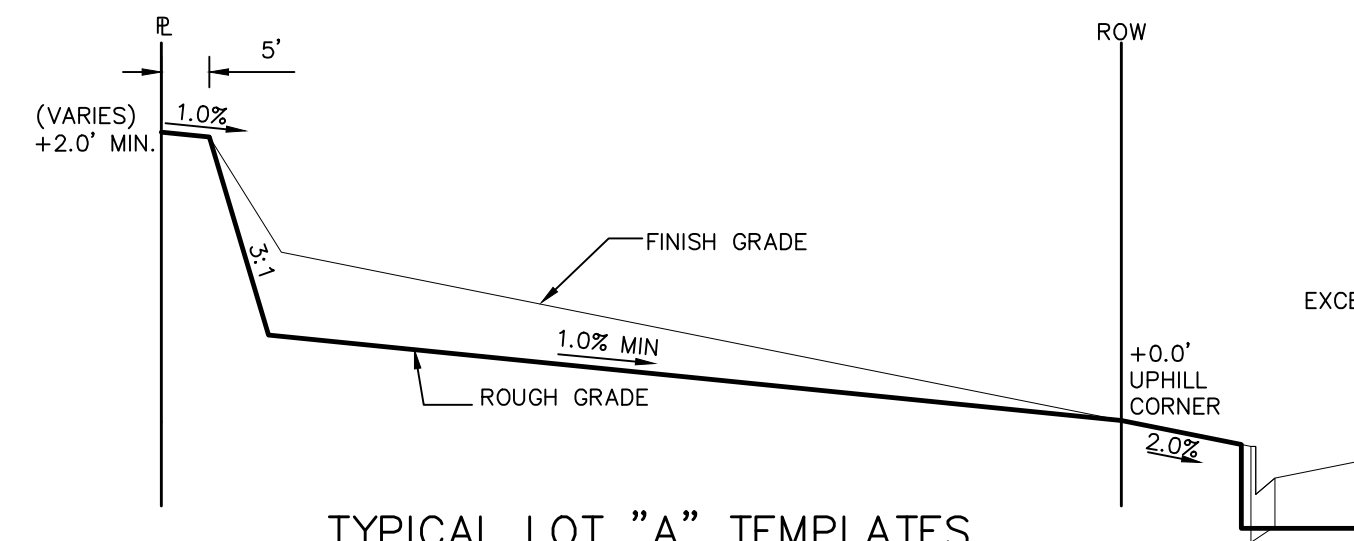
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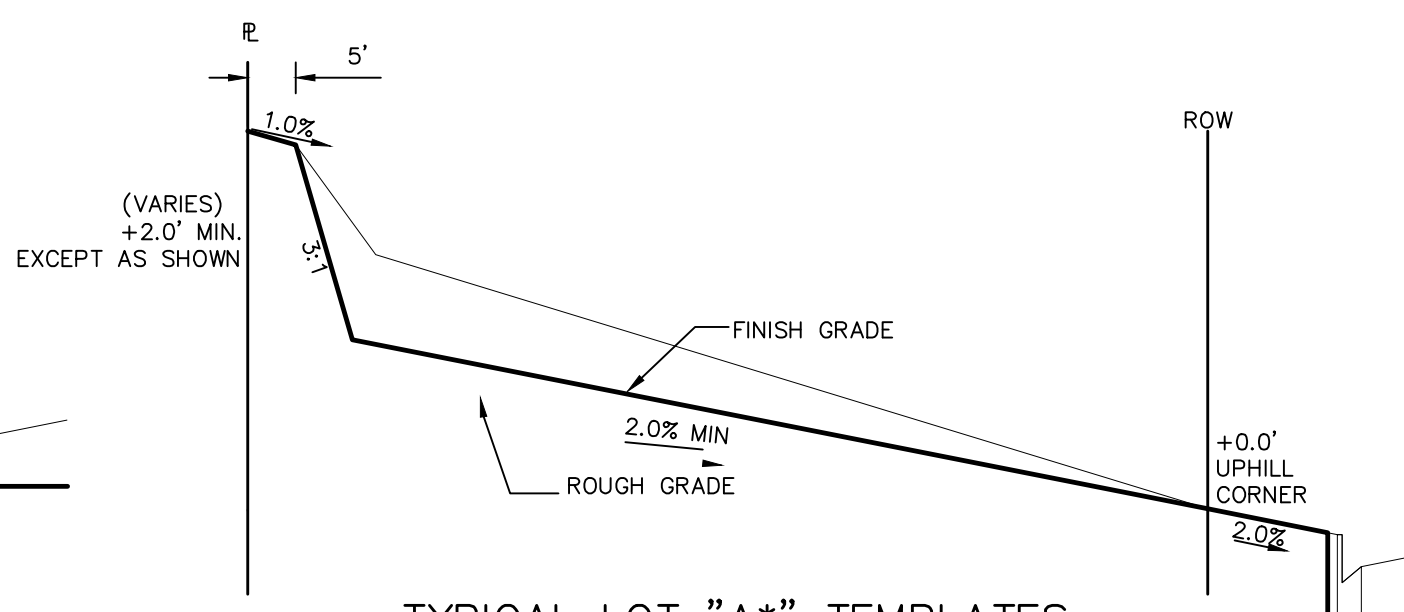
TYPICAL LOT "W10" TEMPLATES



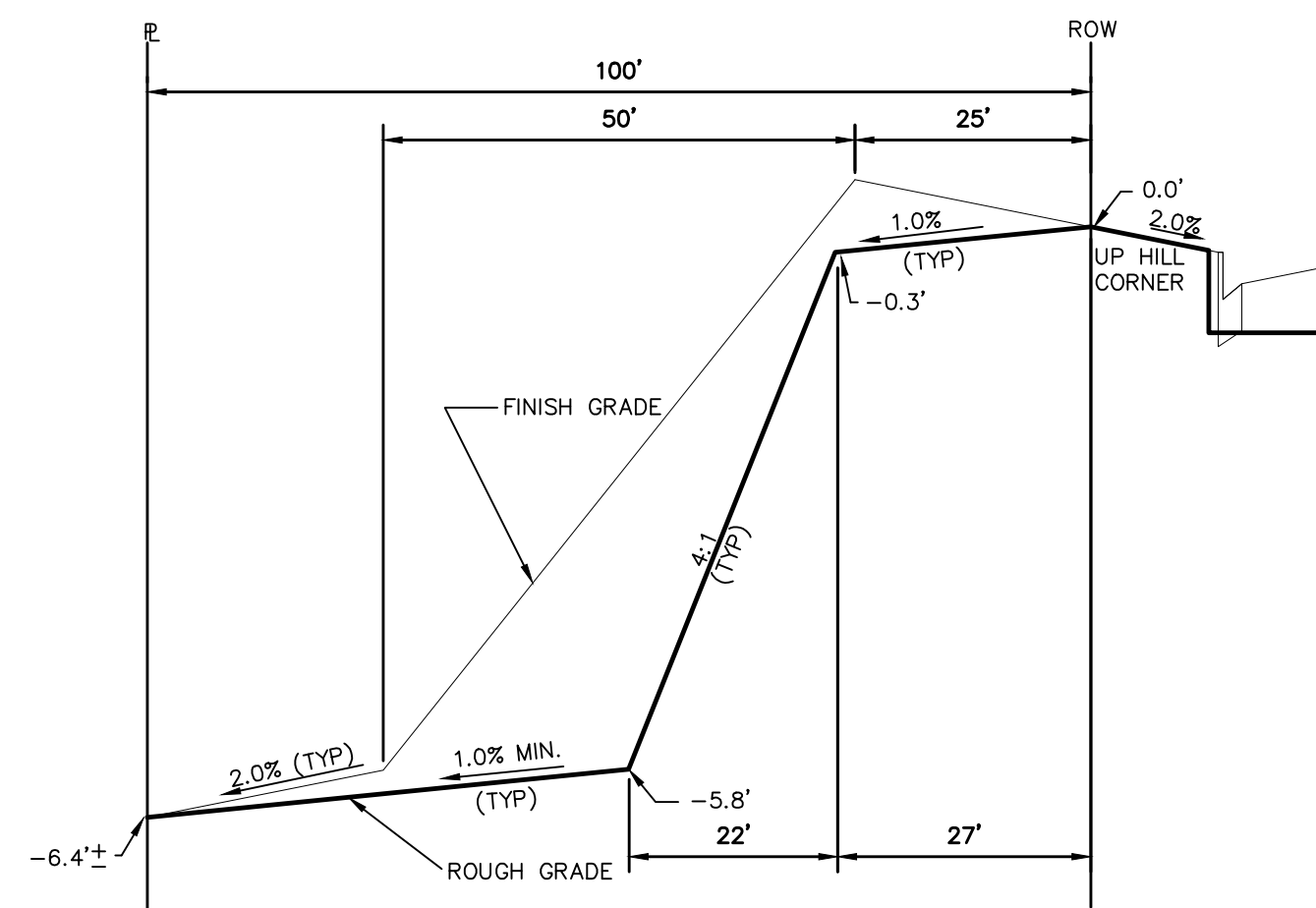
TYPICAL LOT "G4" TEMPLATES



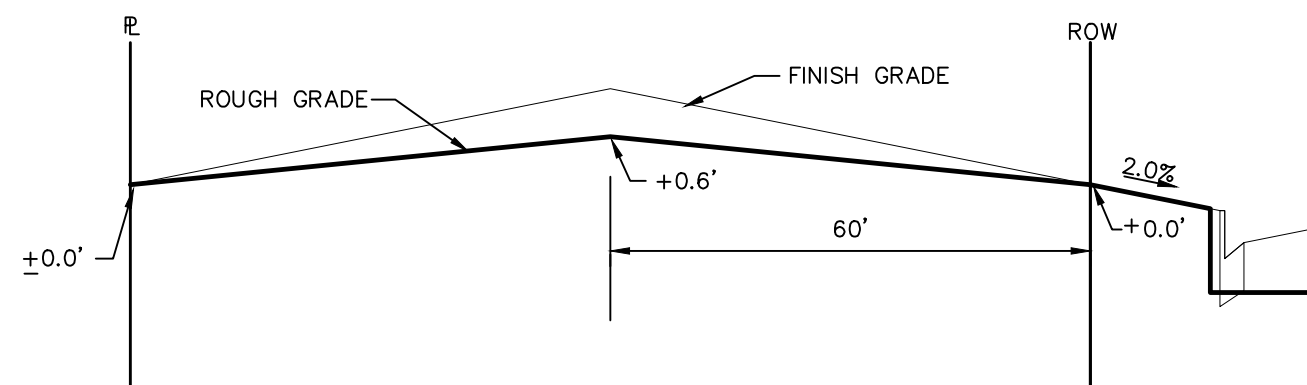
TYPICAL LOT "A" TEMPLATES



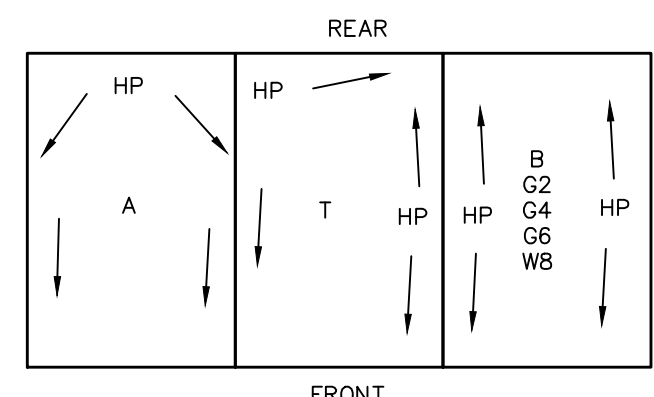
TYPICAL LOT "A\*" TEMPLATES



TYPICAL LOT "G6" TEMPLATES



TYPICAL LOT "B" TEMPLATES



TYPICAL DRAINAGE PATTERN

**STEPS FOR CONSTRUCTION**

THE ANTICIPATED START FOR THIS PROJECT IS MARCH 2018 WITH AN ANTICIPATED COMPLETION DATE OF MAY 2019. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

- \* INSTALL INITIAL BMP'S
- \* CONSTRUCTION OF DITCHES AND EROSION CONTROL STRUCTURES
- \* ROUGH GRADING OF LOTS AND ROADS
- \* SANITARY SEWER
- \* WATER
- \* STORM SEWER AND CULVERTS
- \* ELECTRIC
- \* GAS
- \* PHONE & CABLE TV
- \* FINISHED ROAD GRADING AND PAVING

**EROSION AND SEDIMENT CONTROLS**

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

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

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

**MATERIAL HANDLING AND SPILL PREVENTION**

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

**FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT**

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

**OTHER CONTROLS**

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

**INSPECTION AND MAINTENANCE**

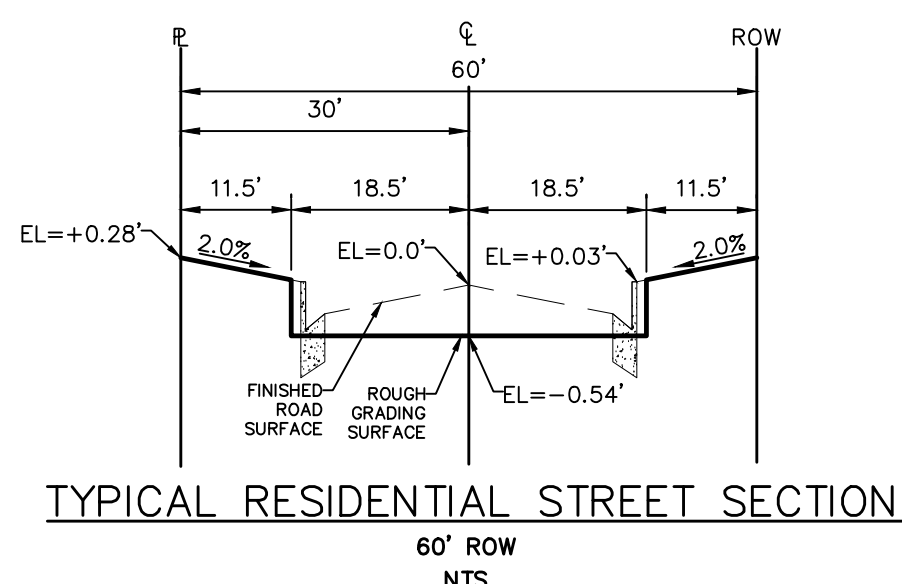
- A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:
- \* EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
  - \* WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT,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

**REVEGETATION AND SEEDING**

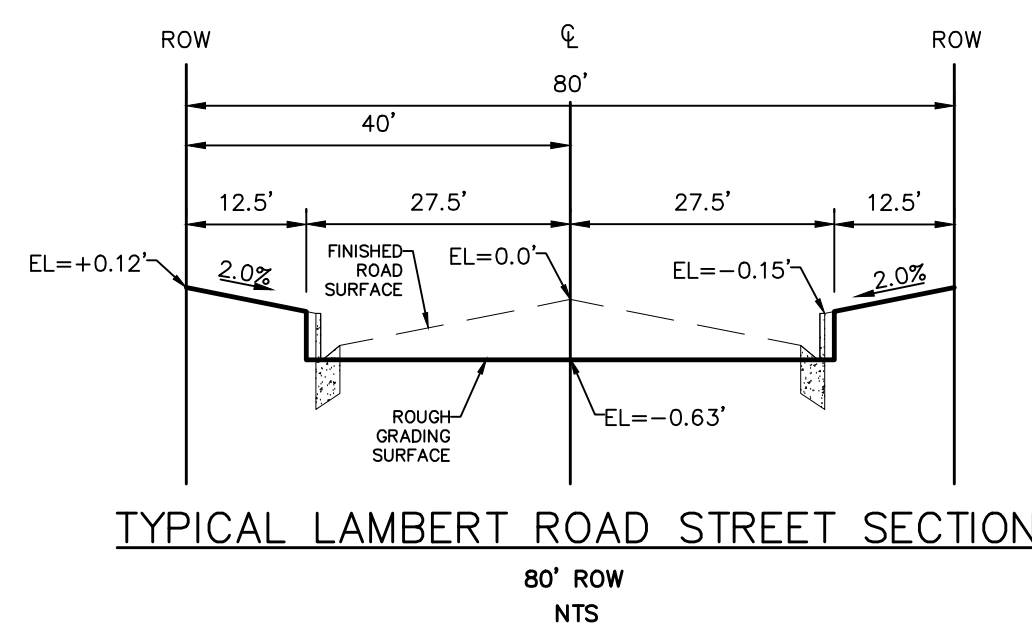
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING.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

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

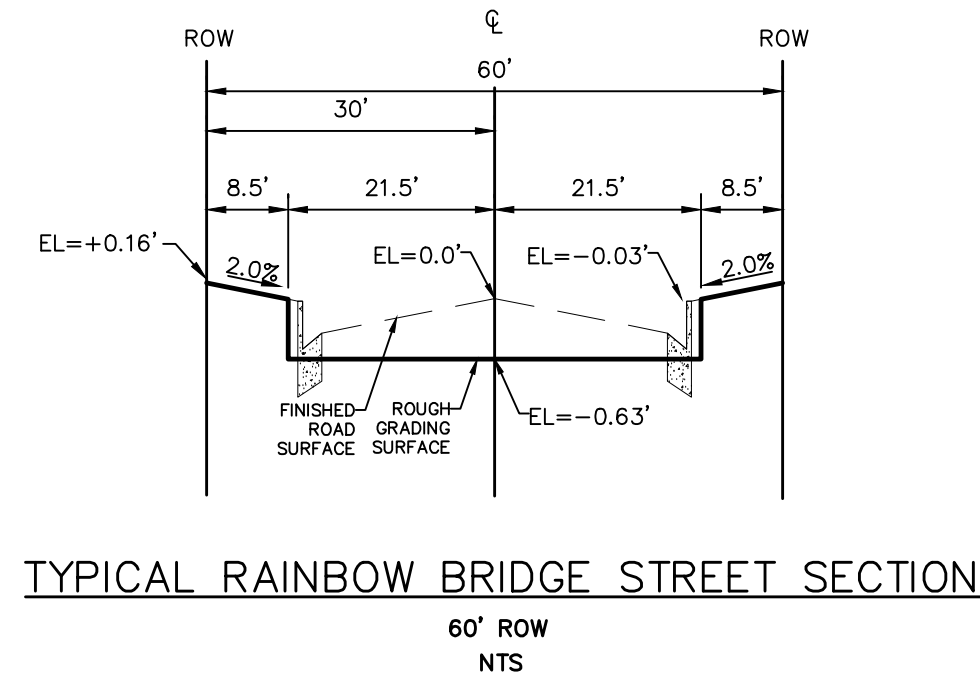
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOTS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0



TYPICAL RESIDENTIAL STREET SECTION



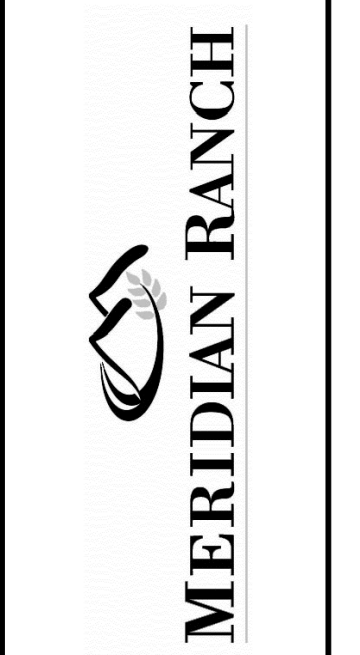
TYPICAL LAMBERT ROAD STREET SECTION



TYPICAL RAINBOW BRIDGE STREET SECTION

Date	Appr.	Date	Revisions

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



WINDINGWALK FLAT MERIDIAN RANCH  
GRADING+EROSION CONTROL PLAN  
DETAIL SHEET

Drawn by	Checked by	Date
LOG <td>TAK <td>JUN 2018</td> </td>	TAK <td>JUN 2018</td>	JUN 2018

Scale AS SHOWN  
54 of 55

TWO WORKING DAYS  
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OR  
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1-800-922-1987  
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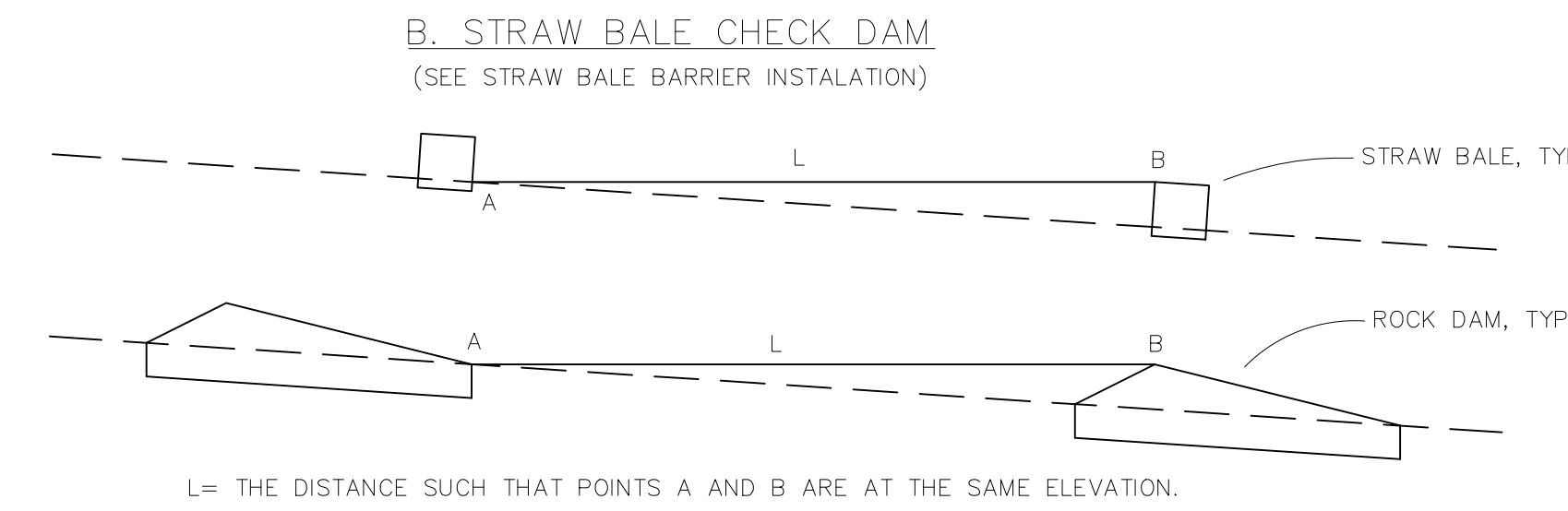
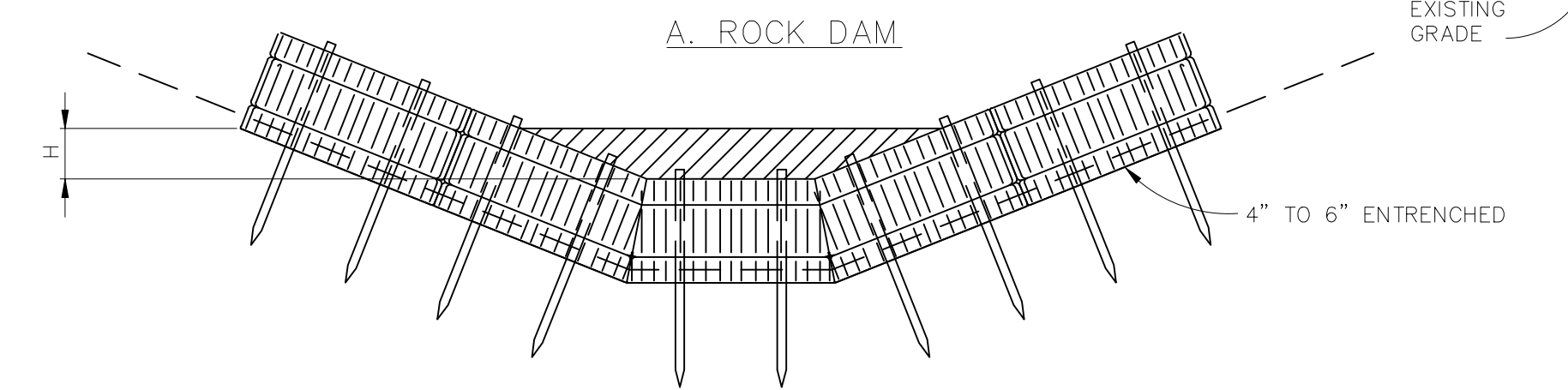
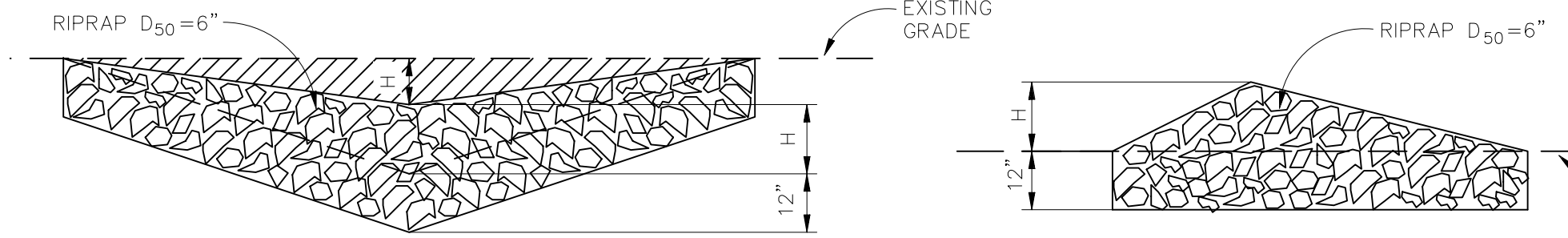
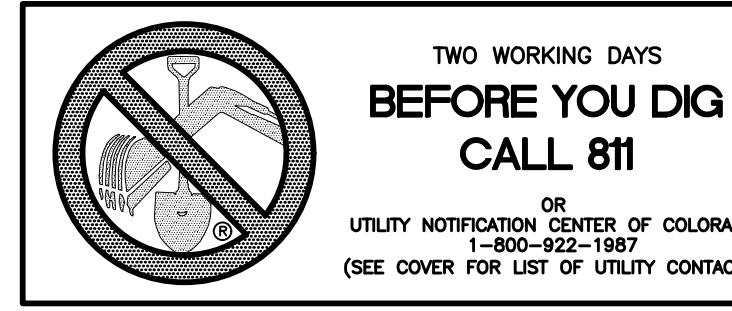
## STRAW BALE BARRIER NOTES

### INSTALLATION REQUIREMENTS

- STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
- BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
- 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.
- 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.
- 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.
- GAPS BETWEEN BALES ARE TO BE CHINKED ( FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
- END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

### MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
- SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
- STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



L = THE DISTANCE SUCH THAT POINTS A AND B ARE AT THE SAME ELEVATION.

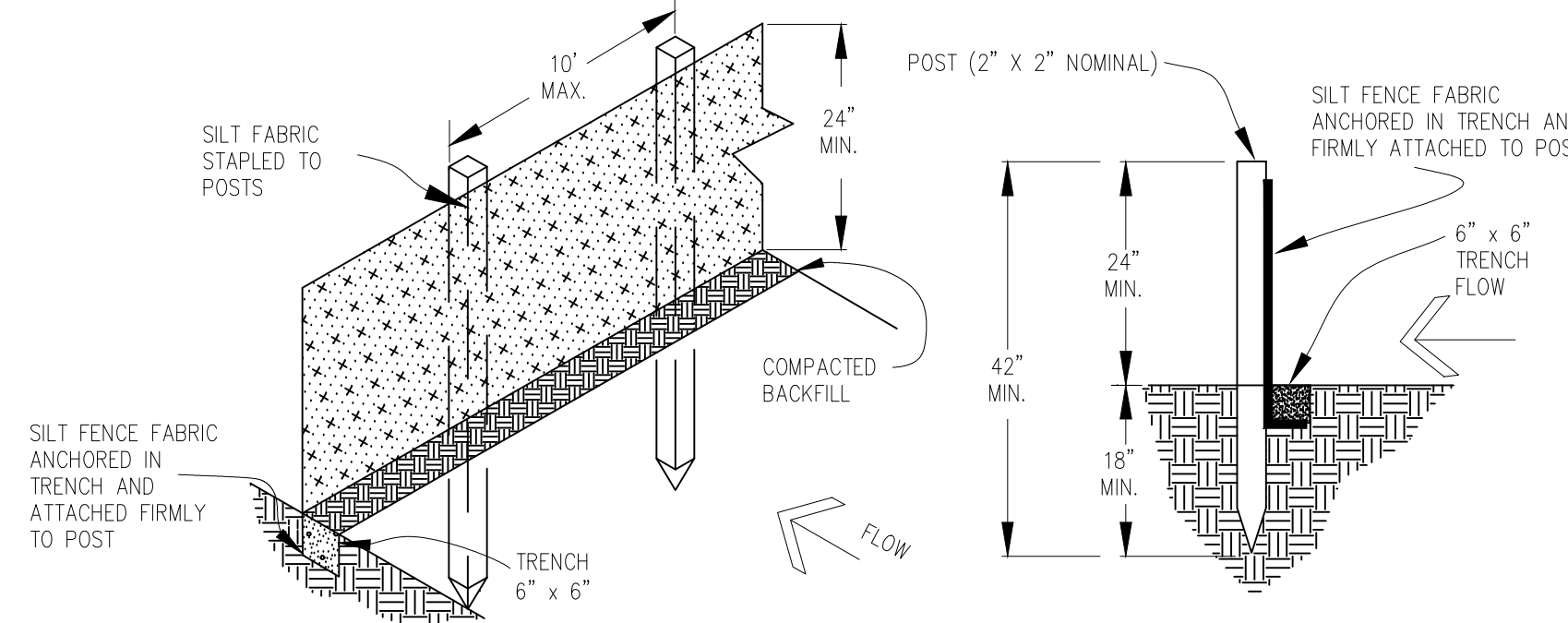
### CHECK DAM NOTES

#### INSTALLATION REQUIREMENTS

- STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
- THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

#### MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
- REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
- 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.
- CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
- WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

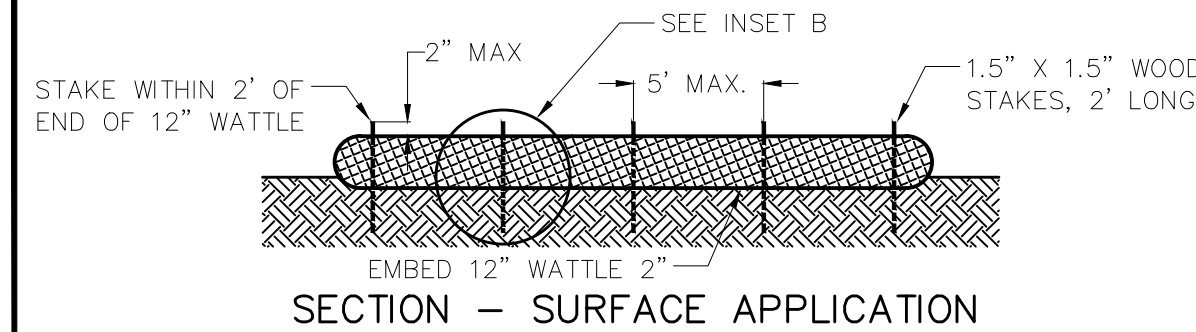


### SILT FENCE NOTES

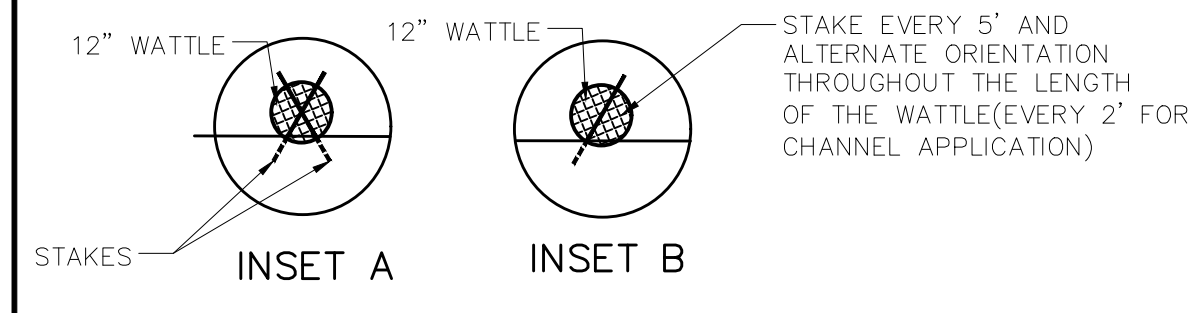
#### INSTALLATION REQUIREMENTS

- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3" ABOVE THE ORIGINAL GROUND SURFACE.

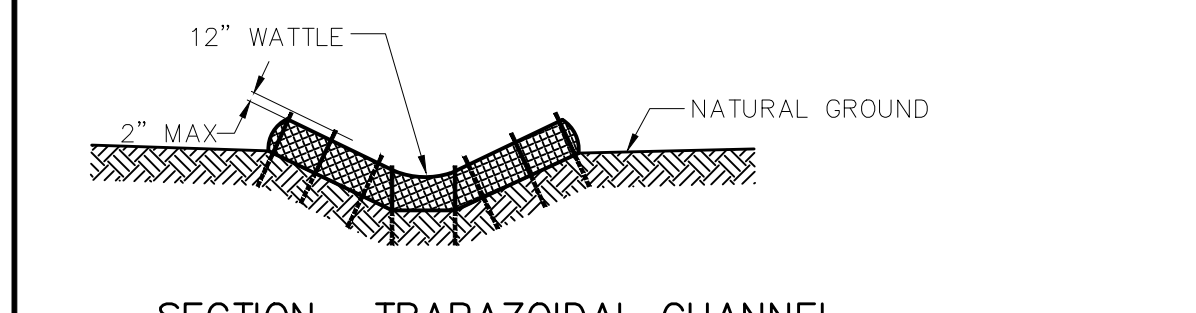
- ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
- THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INFOLD VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



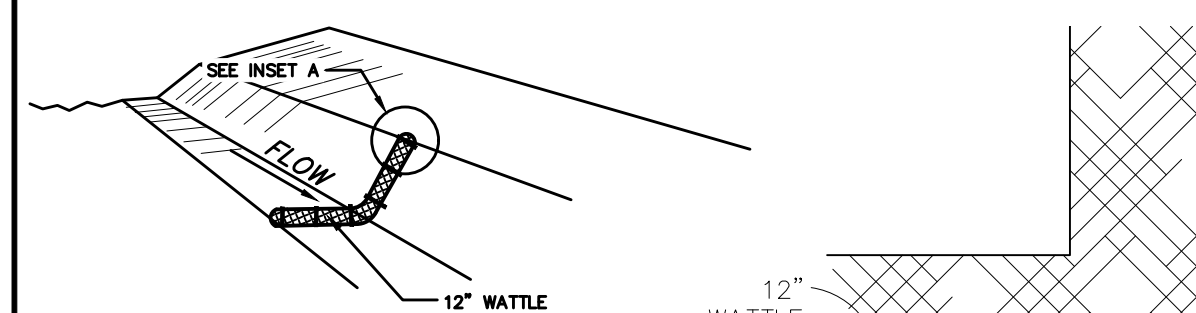
### SECTION - SURFACE APPLICATION



### SECTION - V-NOTCH CHANNEL



### SECTION - TRAPAZOIDAL CHANNEL



### PLAN VIEW

#### NOTES:

- USE 2 FT WOODEN STATES WITH A 1.5 IN BY 1.5 IN NOMINAL CROSS SECTION.
- ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE HALF OF THE EXPOSED LOG HEIGHT. INSPECTIONS SHALL BE PERFORMED FREQUENTLY FOR PROPER FUNCTION.
- WHEN MORE THAN ONE EROSION LOG IS NEEDED, ENDS MUST BE TIGHTLY ABUTTED.
- WATTLES MAY ALSO BE USED ACROSS LONG SLOPES TO REDUCE EROSION AND SEDIMENT VOLUME.
- STRAW WATTLES MAY BE USED IN LIEU OF STRAW BALES AND/OR SILT FENCE WITH APPROVAL THE COUNTY, OWNER, ENGINEER, AND SWMP ADMINISTRATOR.

## IED BLOCK AND GRAVEL BAG\* CURB INLET PROTECTI

### BLOCK AND GRAVEL BAG\* CURB INLET PROTECTION NOTES

#### INSTALLATION REQUIREMENTS

- INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
- CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
- IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'
- GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
- GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
- BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

#### MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
- SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
- INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

\* 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.

### STRAW BALE BARRIER

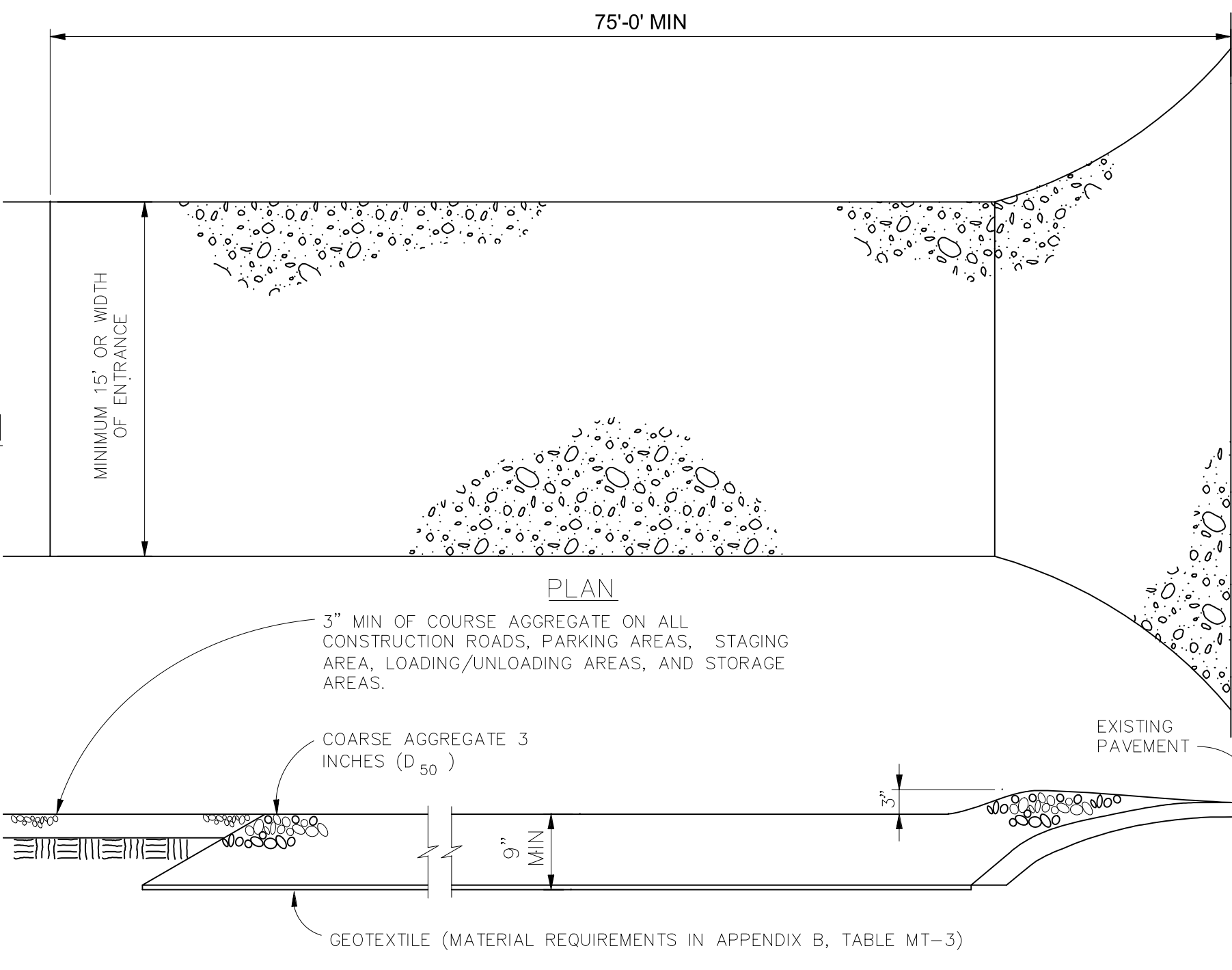
#### VEHICLE TRACKING NOTES

#### INSTALLATION REQUIREMENTS

- ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
- 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.
- AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
- CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
- 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

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
- STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
- STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
- OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.



### SECTION

#### VEHICLE TRACKING

NTS

Date	Appr.	Date	Revisions	No.

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**MERIDIAN RANCH**

WINDINGWALK FL AT MERIDIAN RANCH  
GRADING/EROSION CONTROL PLAN  
DETAIL SHEET

Drawn by	Checked by	Date
LOG <td>TAK <td>JUN 2018</td> </td>	TAK <td>JUN 2018</td>	JUN 2018

Scale	55 of
AS SHOWN	55