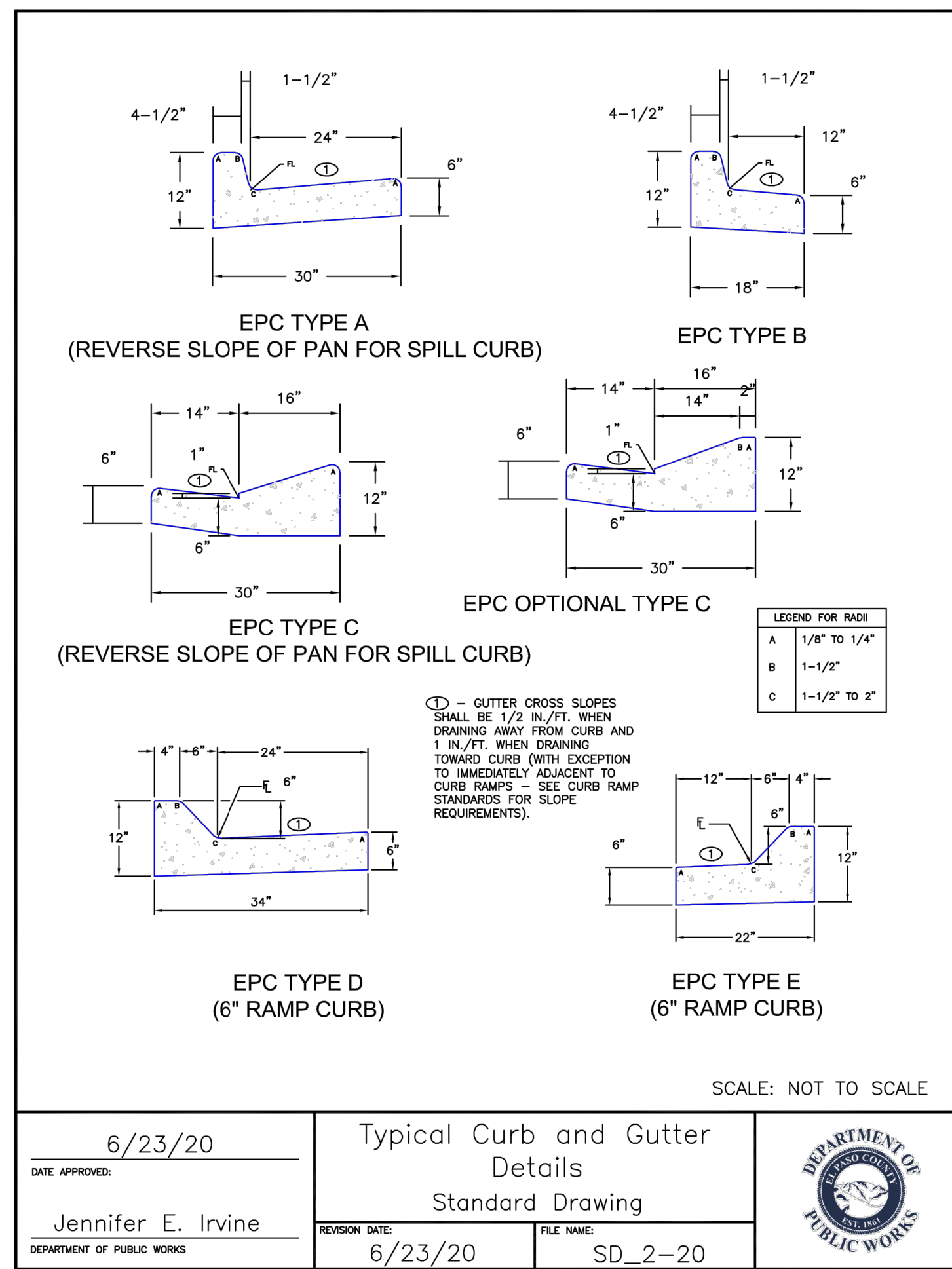
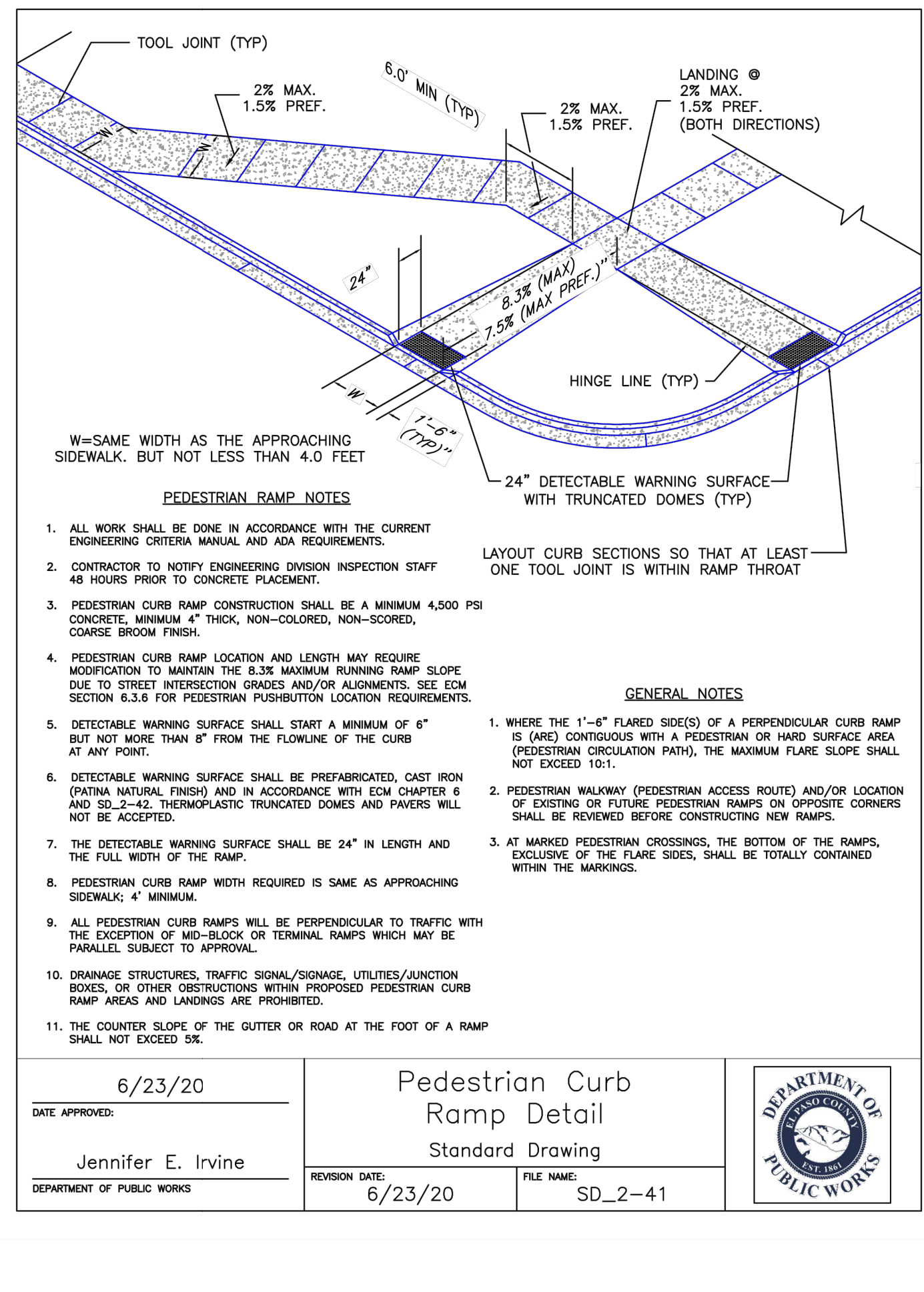


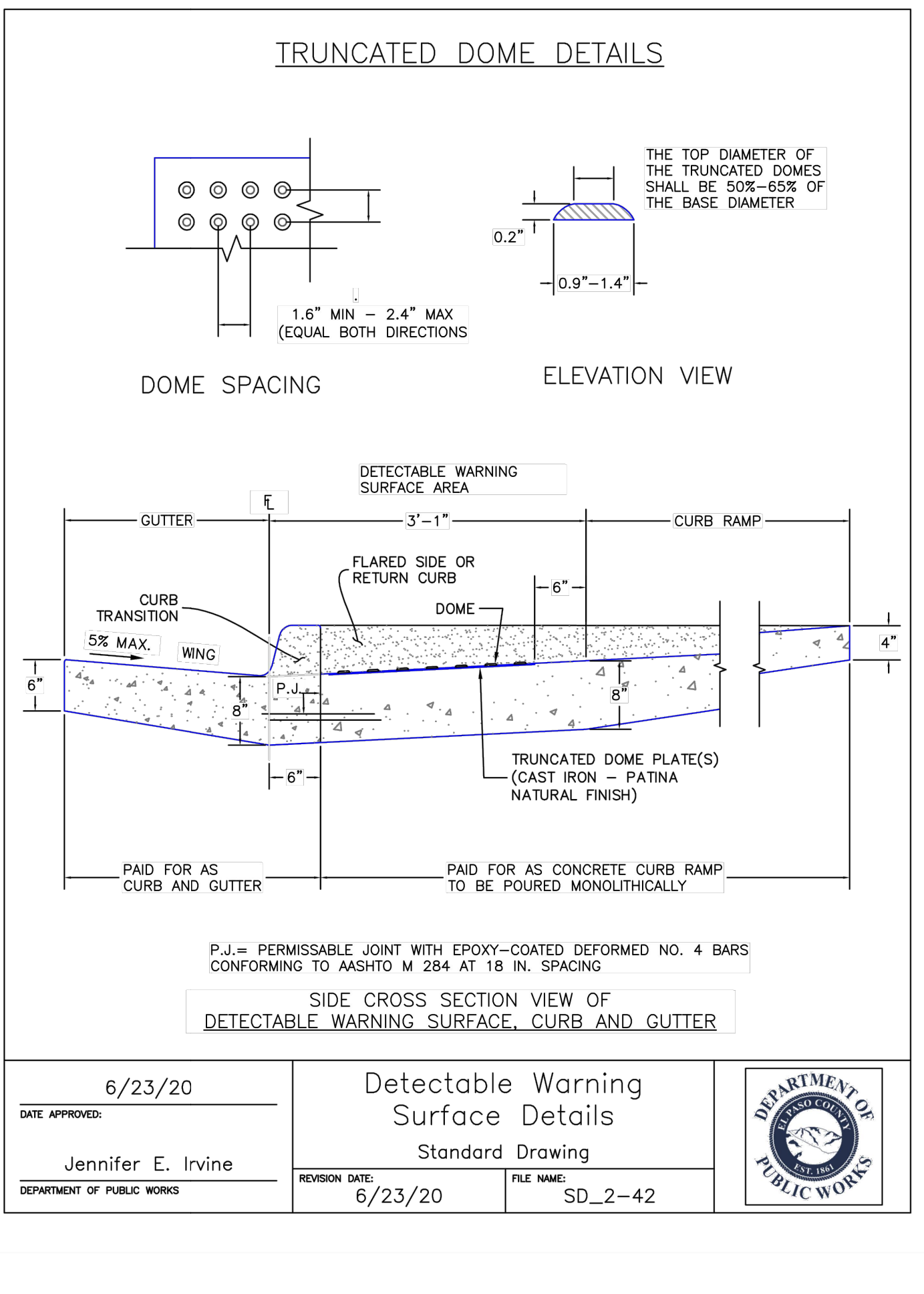
DATE APPROVED: 6/23/20	Parallel Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-50	



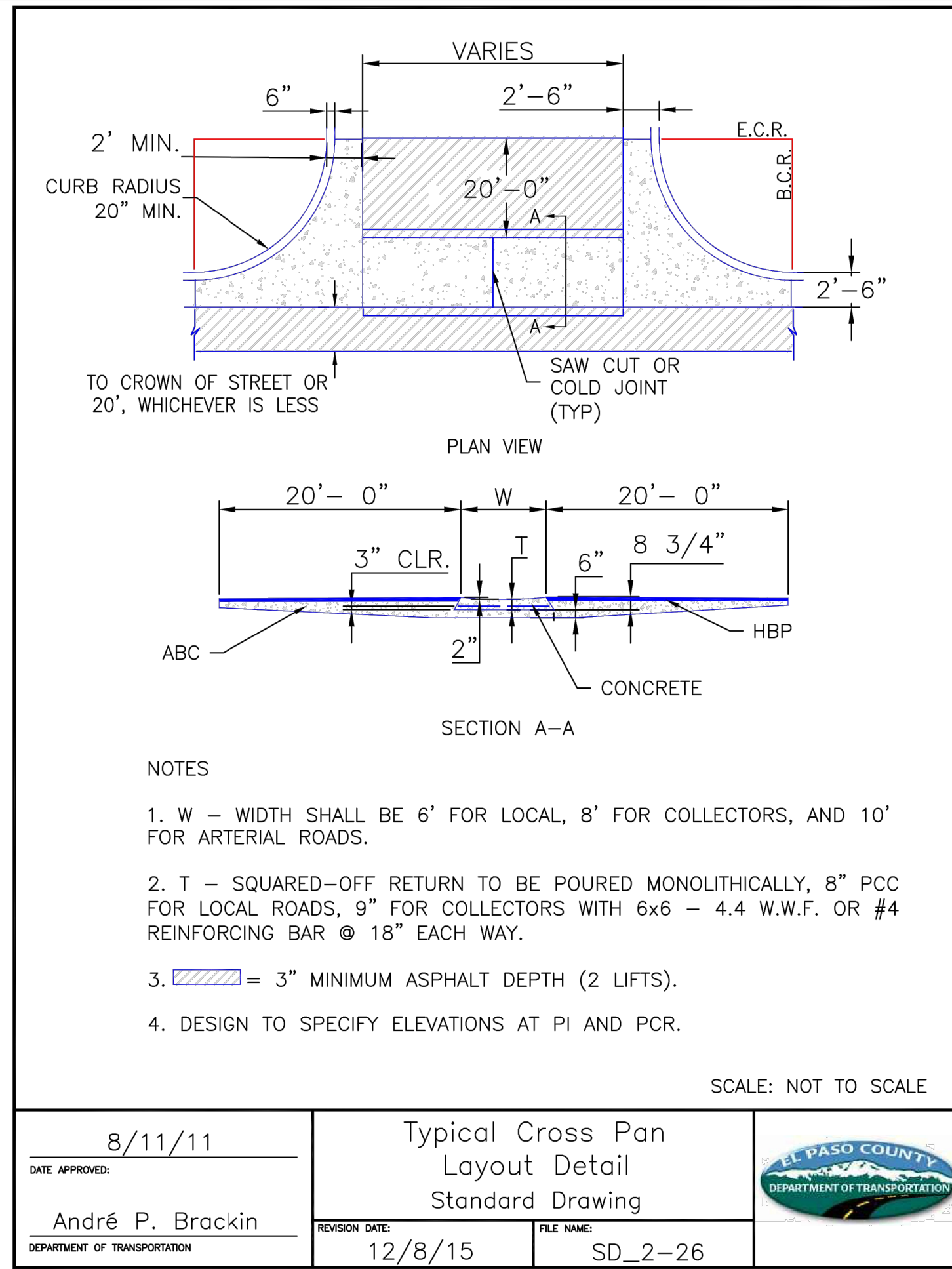
DATE APPROVED: 6/23/20	Typical Curb and Gutter Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-20	



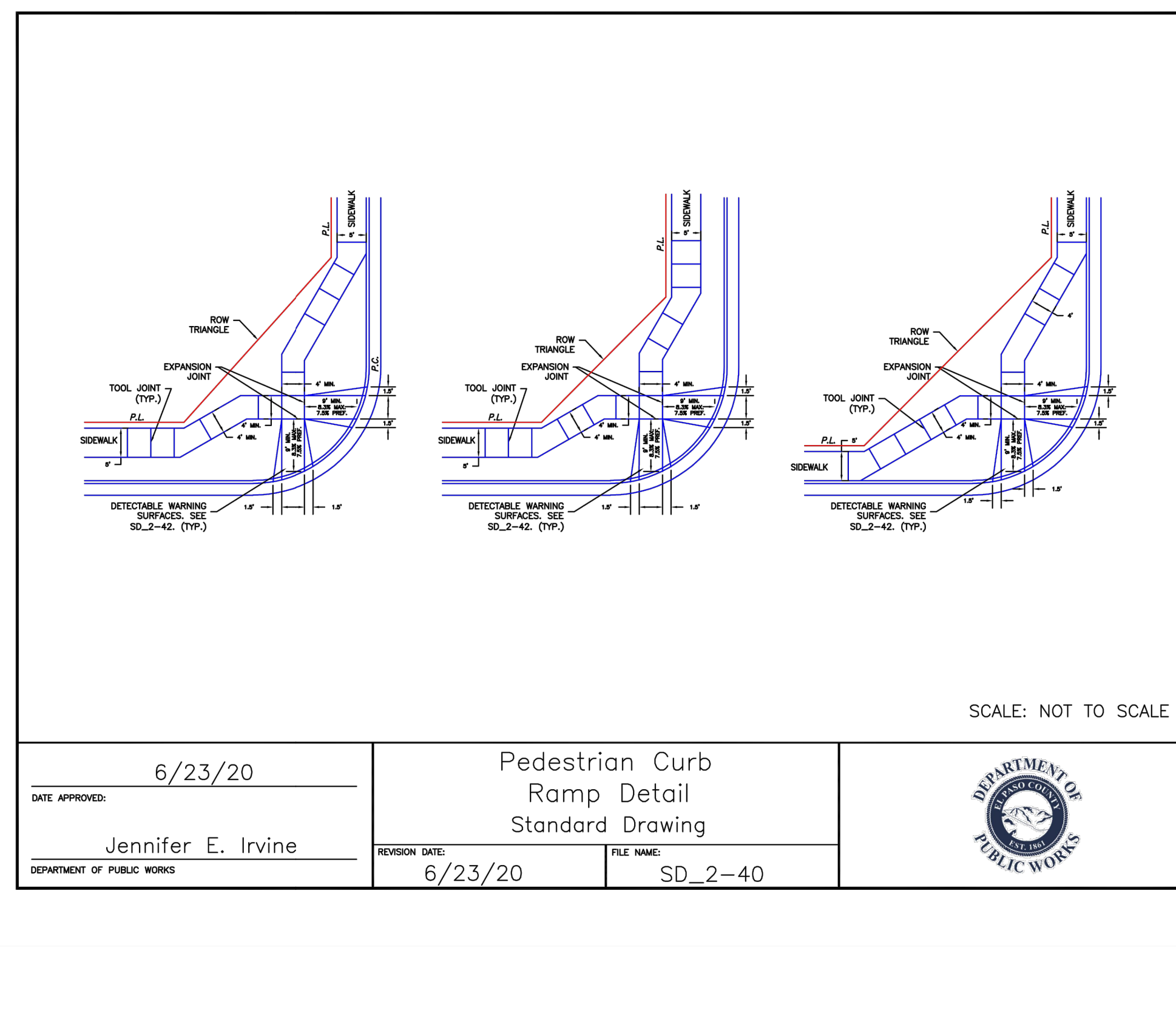
DATE APPROVED: 6/23/20	Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-41	



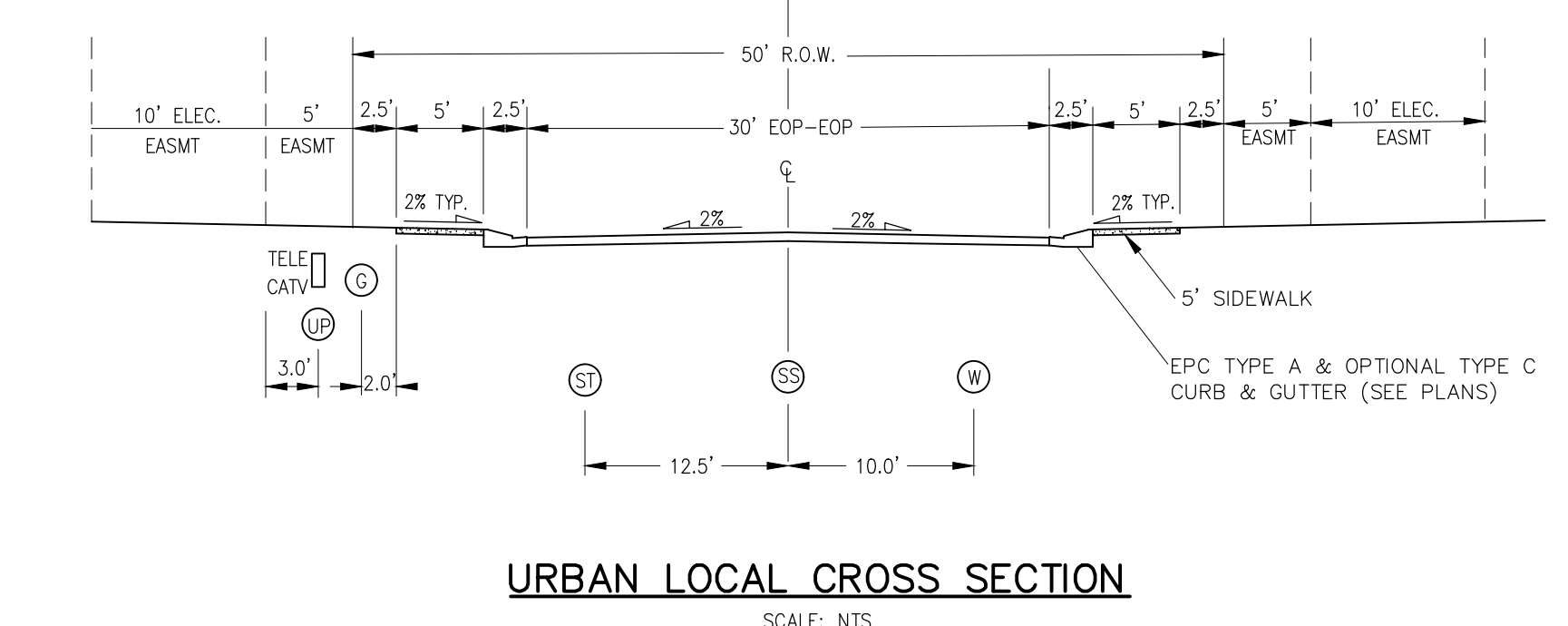
DATE APPROVED: 6/23/20	Detectable Warning Surface Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-42	



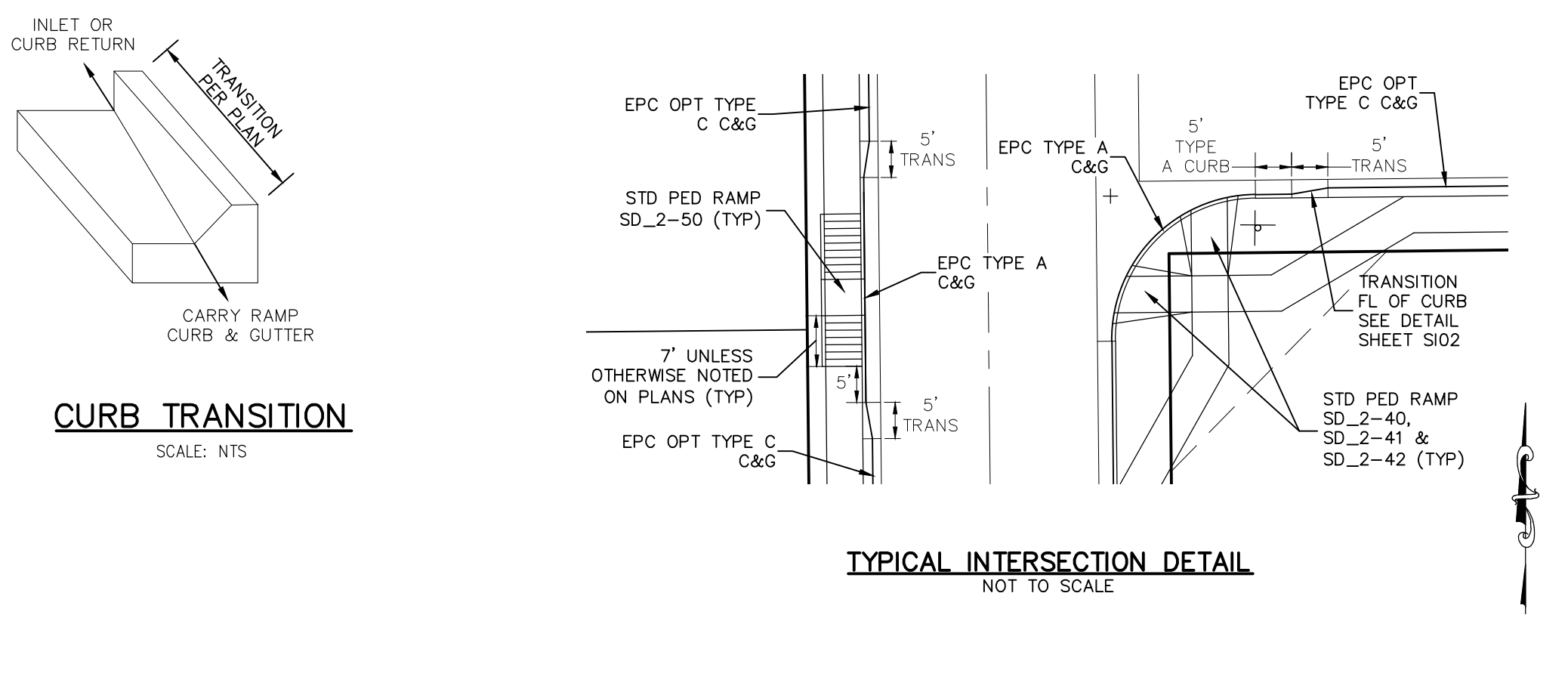
DATE APPROVED: 8/11/11	Typical Cross Pan Layout Detail Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
André P. Brackin	REVISION DATE: 12/8/15 FILE NAME: SD_2-26	



DATE APPROVED: 6/23/20	Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-40	



URBAN LOCAL CROSS SECTION SCALE: NTS



DATE APPROVED: 6/23/20	Typical Intersection Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-43	

STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____

DESIGN DATA:
SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
LOCATION: Attached to _____ AC Surface _____
Detached to _____ AB Base _____
CURB TYPE: A or B AGG. BASE THICKNESS: _____
CURB TYPE: C or D Class 6 _____
ROW WIDTH: 50' EOP-EOP 30' Class 5 _____
STREET TYPE: URBAN LOCAL HVEEM Class 2 _____
DESIGN SPEED: 25 MPH

PAINT BRUSH HILLS FILING NO. 14

STREET SECTION AND DETAILS

PROJECT NO. 10-014 DATE: 03/19/2021
SCALE: N/A HORIZONTAL: N/A VERTICAL: N/A
DESIGNED BY: JWP
DRAWN BY: JWP
CHECKED BY: GW

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MIRCIU A. SANCHEZ, COLORADO P.E. NO. 37160

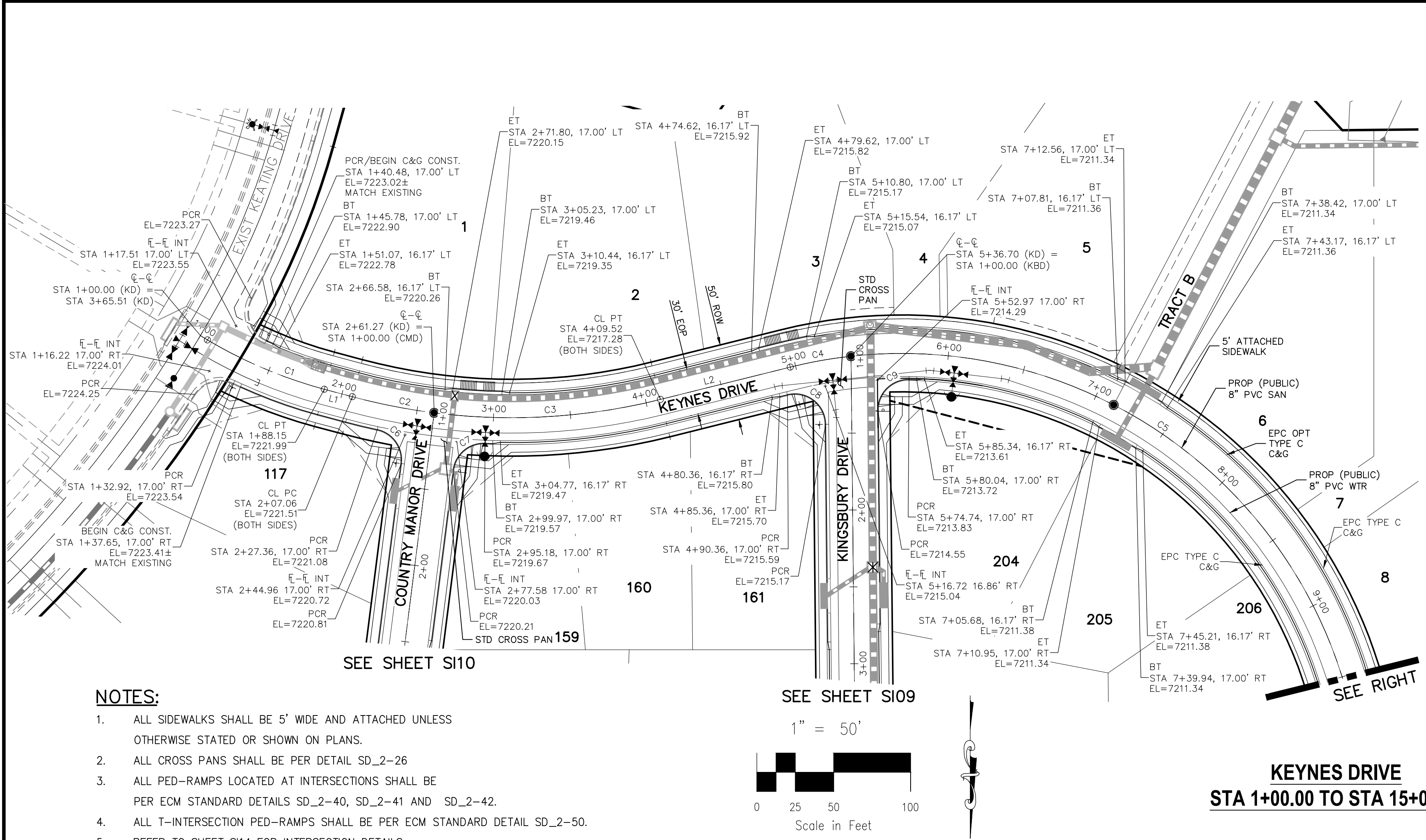
PROFESSIONAL ENGINEER
3-22-21

REVISIONS:

NO.	DATE	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



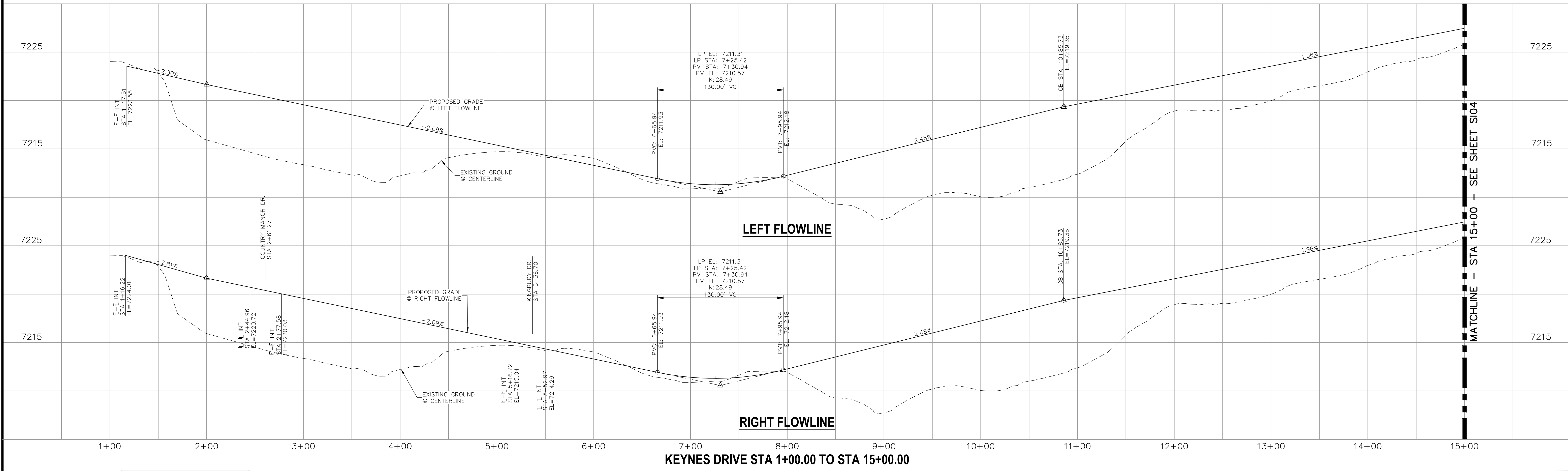
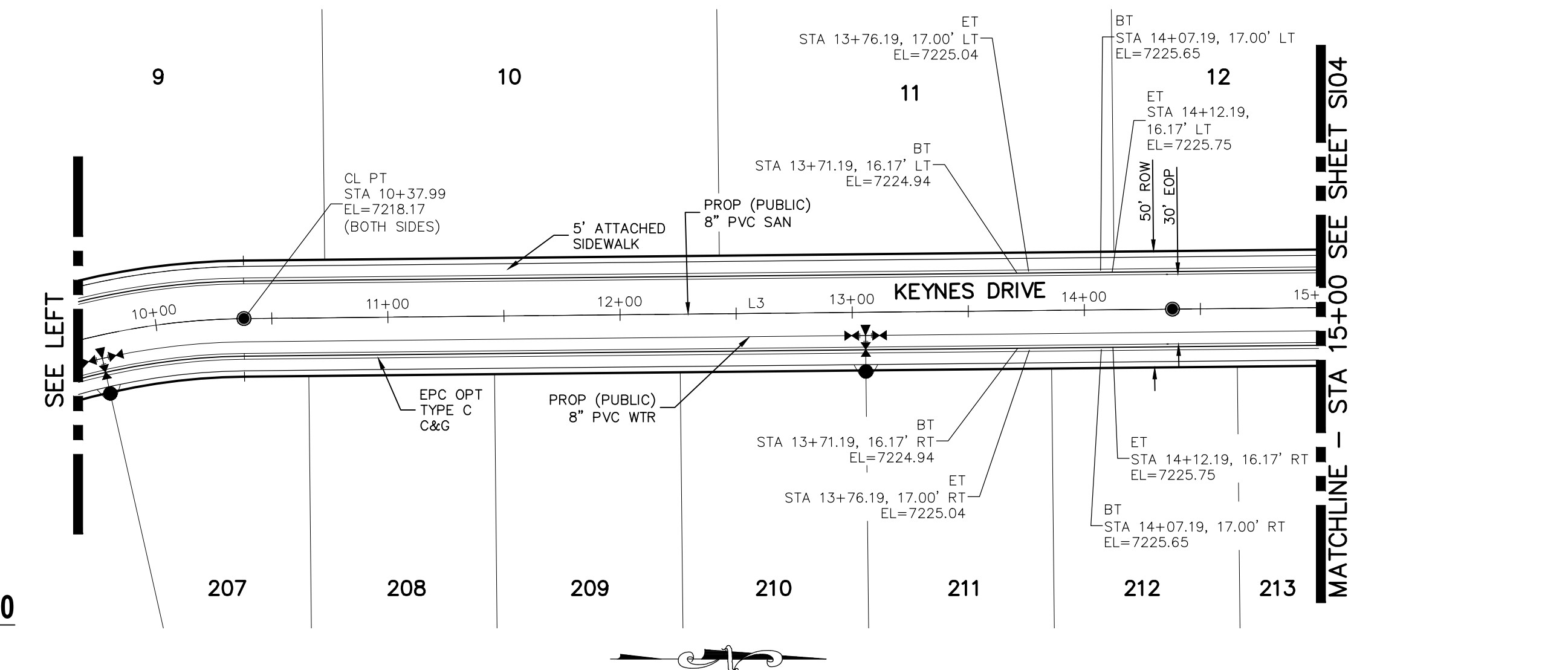
- NOTES:**
- ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
 - ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
 - ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEET S114 FOR INTERSECTION DETAILS.

CENTERLINE CURVE TABLE				CENTERLINE LINE TABLE		
CURVE	RADIUS	LENGTH	DELTA	LINE	LENGTH	DIRECTION
C1	300.00'	82.73'	15°48'00"	L1	18.91'	N75°00'00"W
C2	400.00'	54.21'	7°45'52"	L2	86.98'	S76°00'00"W
C3	400.00'	148.25'	21°14'08"	L3	1422.70'	N0°35'00"W
C4	300.00'	40.20'	7°40'39"			
C5	300.00'	501.29'	95°44'21"			

PCR CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C6	20.00'	29.72'	85.14
C7	20.00'	29.72'	85.14
C8	20.00'	36.10'	103.42
C9	20.00'	31.95'	91.53

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURVE RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNUCKLE	R/W	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		



<p>STATEMENT:</p> <p>THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.</p>	<p>FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES</p> <p>FOR BURIED UTILITY INFORMATION CALL 1-800-922-1987</p>	<p>STREET DESIGN:</p> <p>TRAFFIC ENGINEERING: _____ DATE: _____</p> <p>CURB & GUTTER: _____ DATE: _____</p> <p>FINAL REVIEW: _____ DATE: _____</p>	<p>DESIGN DATA:</p> <p>SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____</p> <p>LOCATION: Attached <input checked="" type="checkbox"/> AC Surface _____</p> <p>Detached <input type="checkbox"/> CENTERED-IN-5'-EASEMENT AB Base _____</p> <p>CURB TYPE A <input checked="" type="checkbox"/> AGG. BASE THICKNESS: _____</p> <p>CURB TYPE C <input type="checkbox"/> Class 6 _____</p> <p>ROW WIDTH 50' EOP-EOP 30' Class 5 _____</p> <p>STREET TYPE RESIDENTIAL HVEEM _____ Class 2 _____</p> <p>DESIGN SPEED 25 MPH _____</p>				
		<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION		
NO.	DATE	DESCRIPTION					

PAIN T BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DRAWN BY: JWP SHEET 3 OF 30

CHECKED BY: GW

212 N. WARSATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

File: C:\Users\jlopez\Documents\100144-PBH 14\Draw\Corral Draw\STREET\S103.dwg Plotstamp: 3/22/2021 9:00 AM

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	TBC	TOP BACK OF CURB
ET	END TRANSITION	XPN	CROSSSPAN
PC	POINT OF CURVE	STD	STANDARD
PCC	POINT OF COMPOUND CURVE	SHT	SHEET
PCR	POINT OF CURB RETURN	P&P	PLAN AND PROFILE
PRC	POINT OF REVERSE CURVE	C&G	CURB AND GUTTER
PT	POINT OF TANGENT	W	WEST
EL	ELEVATION	E	EAST
CDS	CUL-DE-SAC	ROW	RIGHT OF WAY
KN	KNUCKLE	EOP	EDGE OF PAVEMENT
LP	LOOP	WTR	WATER
N	NORTH	SAN	SANITARY SEWER
S	SOUTH	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L1	1422.70'	N0°35'00"W
L2	100.43'	N0°35'00"W
L3	5.02'	S5°43'41"W

CDS CURVE TABLE

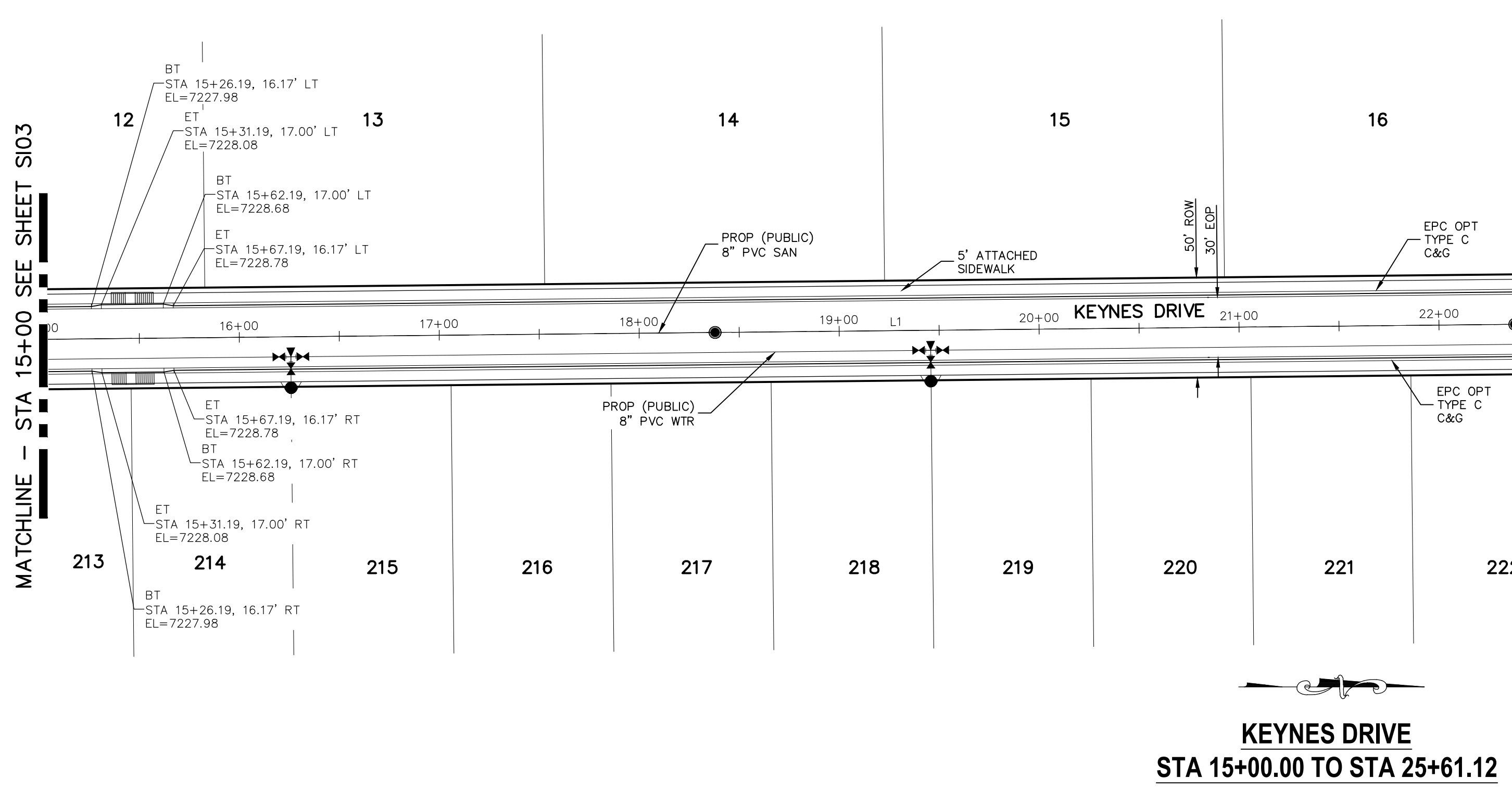
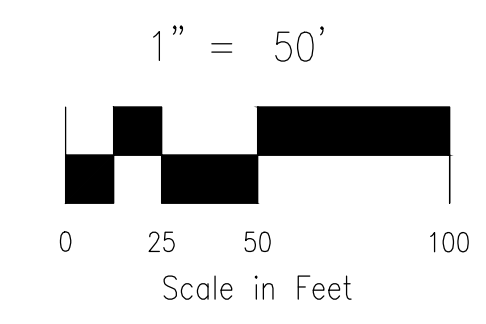
CURVE	RADIUS	LENGTH	DELTA
C2	45.00'	113.94'	145.08'
C5	45.00'	63.13'	80.38'
C6	45.83'	28.93'	36.17'

CENTERLINE CURVE TABLE

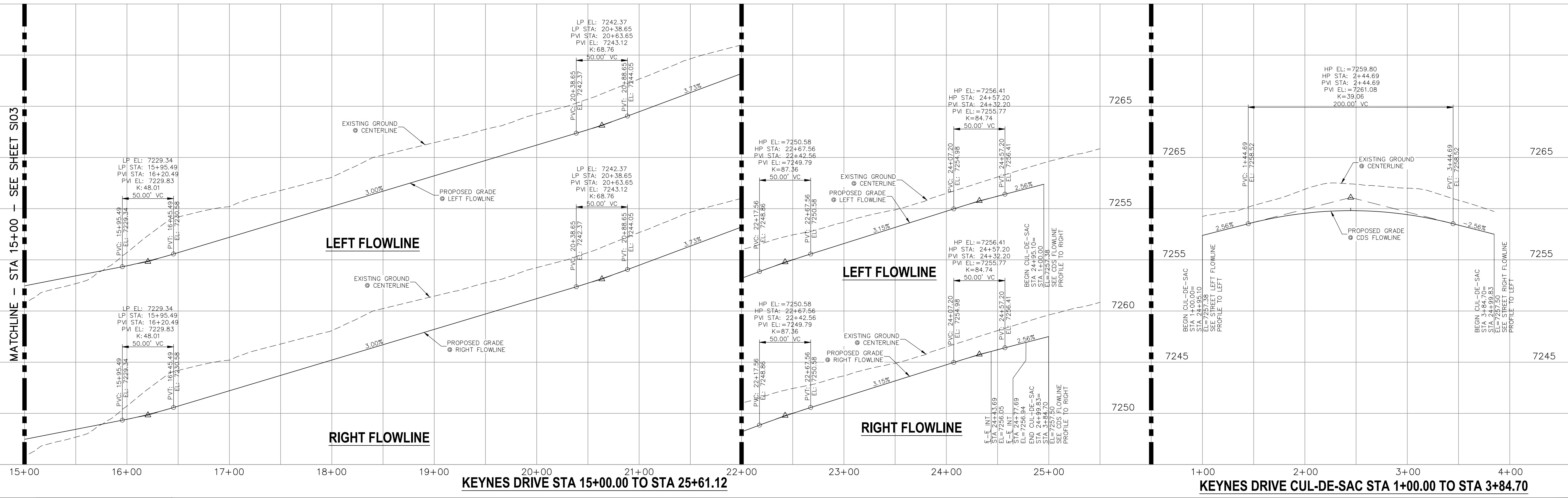
CURVE	RADIUS	LENGTH	DELTA
C1	45.00'	37.06'	47°10'57"
C3	45.00'	22.14'	28°11'11"
C4	44.17'	5.00'	6°29'09"

PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C7	20.00'	31.42'	90.00'
C8	20.00'	33.56'	96.14'



- NOTES:**
1. ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
 2. ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
 3. ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 4. ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 5. REFER TO SHEET SI14 FOR INTERSECTION DETAILS.



<p>STATEMENT:</p> <p>THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.</p>	<p>FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987</p>	<p>STREET DESIGN:</p> <p>TRAFFIC ENGINEERING: _____ DATE: _____</p> <p>CURB & GUTTER: _____ DATE: _____</p> <p>FINAL REVIEW: _____ DATE: _____</p> <p>DRAINAGE DESIGN:</p> <p>DRAINAGE REVIEW: _____ DATE: _____</p> <p>FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.</p>	<p>DESIGN DATA:</p> <p>SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____</p> <p>LOCATION: Attached <input checked="" type="checkbox"/> AC Surface _____</p> <p>Detached <input type="checkbox"/> CENTERED IN 5' EASEMENT AB Base _____</p> <p>CURB TYPE: A <input checked="" type="checkbox"/> AGG. BASE THICKNESS: _____</p> <p>CURB TYPE: C <input type="checkbox"/> Class 6 _____</p> <p>ROW WIDTH: 50' EOP-EOP 30' Class 5 _____</p> <p>STREET TYPE: RESIDENTIAL HVEEM Class 2 _____</p> <p>DESIGN SPEED: 25 MPH _____</p>					
				<p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE:</th> <th>BY:</th> <th>DESCRIPTION:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE:	BY:	DESCRIPTION:
NO.	DATE:	BY:	DESCRIPTION:					

PAINT BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

PROJECT NO. 10-014 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: GW

212 N. WASHCATCH AVE., STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

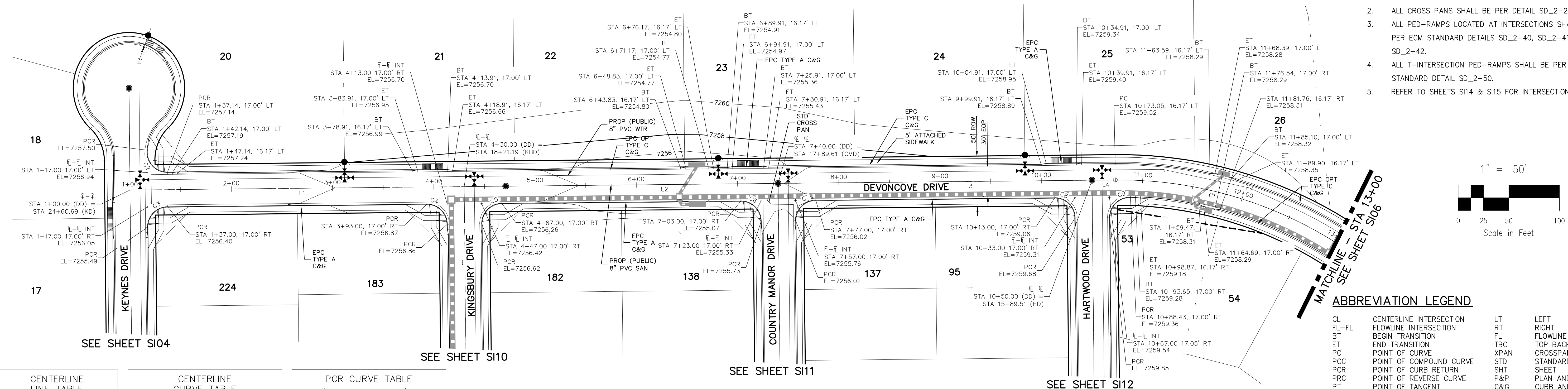
Virgil A. Sanchez, Colorado P.E. No. 37160

NO. DATE: _____ BY: _____ DESCRIPTION: _____

CAUTION

File: C:\Users\joprice\Documents\100144-PBH 14\Draw\Corral Draw\STREET\SI04.dwg PlotStamp: 3/19/2021 10:14 AM

- NOTES:**
- ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
 - ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
 - ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEETS S114 & S115 FOR INTERSECTION DETAILS.



LINE	LENGTH	DIRECTION
L1	330.00'	N89°25'00"E
L2	310.00'	N89°25'00"E
L3	310.00'	N89°25'00"E
L4	23.05'	N89°25'00"E

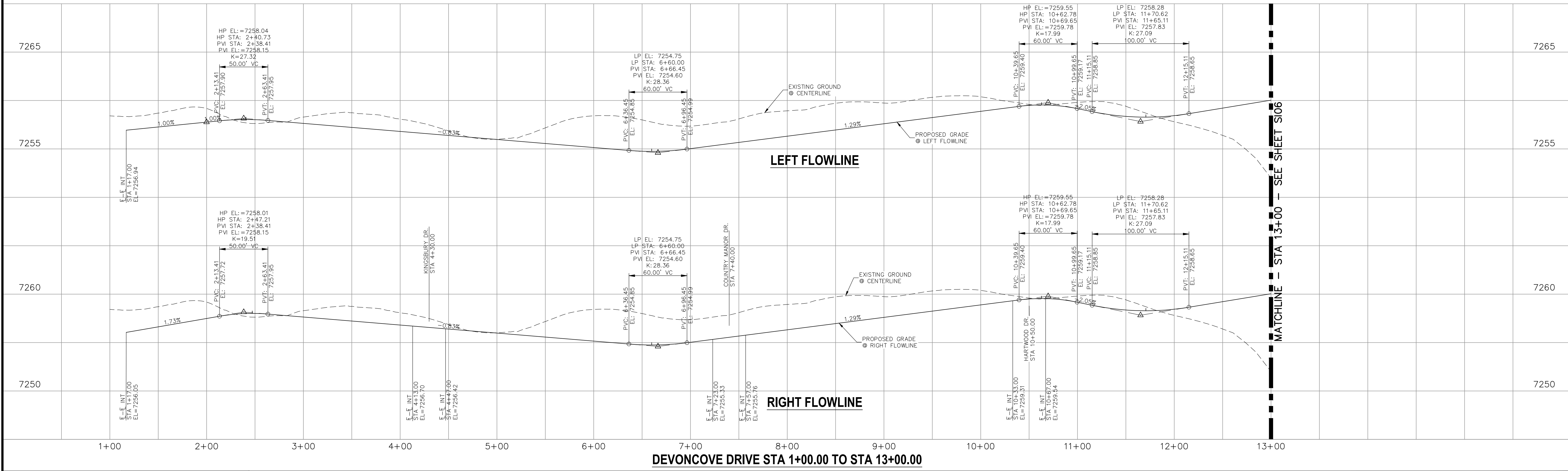
CURVE	RADIUS	LENGTH	DELTA
C1	400.00'	328.70'	47°05'00"

CURVE	RADIUS	LENGTH	DELTA
C2	20.00	33.56	96.14
C3	20.00	31.42	90.00
C4	20.00	31.42	90.00
C5	20.00	31.42	90.00
C6	20.00	31.42	90.00
C7	20.00	31.42	90.00
C8	20.00	31.42	90.00
C9	20.00	32.18	92.20

**DEVONCOVE DRIVE
 STA 1+00.00 TO STA 13+00.00**

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	TBC	TOP BACK OF CURB
ET	END TRANSITION	XPAN	CROSSSPAN
PC	POINT OF CURVE	STD	STANDARD SHEET
PCC	POINT OF COMPOUND CURVE	SHT	PLAN AND PROFILE
PCR	POINT OF CURB RETURN	P&P	CURB AND GUTTER
PRC	POINT OF REVERSE CURVE	C&G	C&G WEST
PT	POINT OF TANGENT	W	WEST
EL	ELEVATION	E	EAST
CDS	CUL-DE-SAC	ROW	RIGHT OF WAY
KN	KNUCKLE	EOP	EDGE OF PAVEMENT
LP	LOOP	WTR	WATER
N	NORTH	SAN	SANITARY SEWER
S	SOUTH	PROP	PROPOSED
KD	KEYNES DRIVE	COLL	COLLECTOR
HD	HARTWOOD DRIVE	LFT	LOW POINT
GMD	GRACE MANOR DRIVE	RES	RESIDENTIAL
CMD	COUNTRY MANOR DRIVE		
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		



DEVONCOVE DRIVE STA 1+00.00 TO STA 13+00.00

STATEMENT:
 THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:	DESIGN DATA:
TRAFFIC ENGINEERING: _____ DATE: _____	SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
CURB & GUTTER: _____ DATE: _____	LOCATION: Attached <input checked="" type="checkbox"/> AC Surface _____
FINAL REVIEW: _____ DATE: _____	Detached <input type="checkbox"/> CENTERED IN 5' EASEMENT AB Base _____
DRAINAGE DESIGN:	CURB TYPE A <input checked="" type="checkbox"/> Class 6 AGG. BASE THICKNESS: _____
DRAINAGE REVIEW: _____ DATE: _____	CURB TYPE C <input type="checkbox"/> Class 5 _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.	ROW WIDTH 50' EOP-EOP 30' Class 5 _____
	STREET TYPE RESIDENTIAL HVECM Class 2 _____
	DESIGN SPEED 25 MPH _____

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
 VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

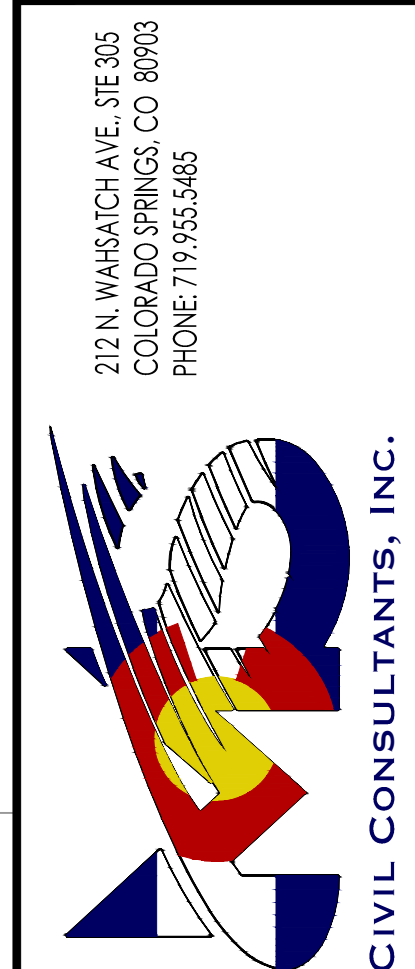
REVISIONS:	NO.	DATE:	BY:	DESCRIPTION:

THE DESIGNER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

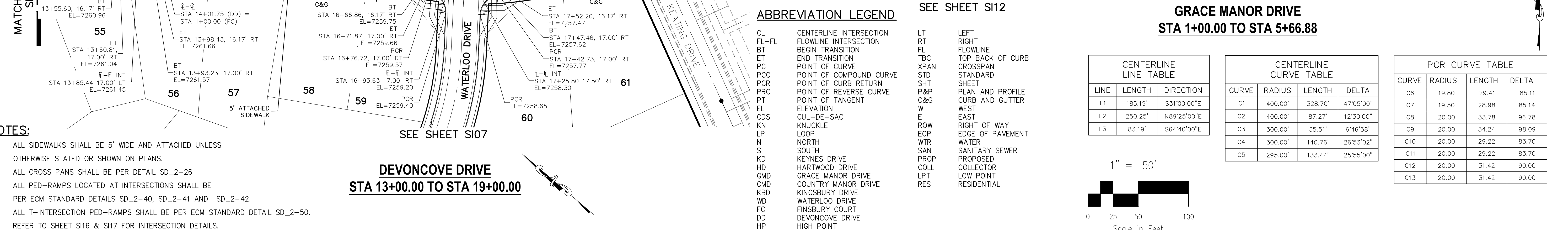
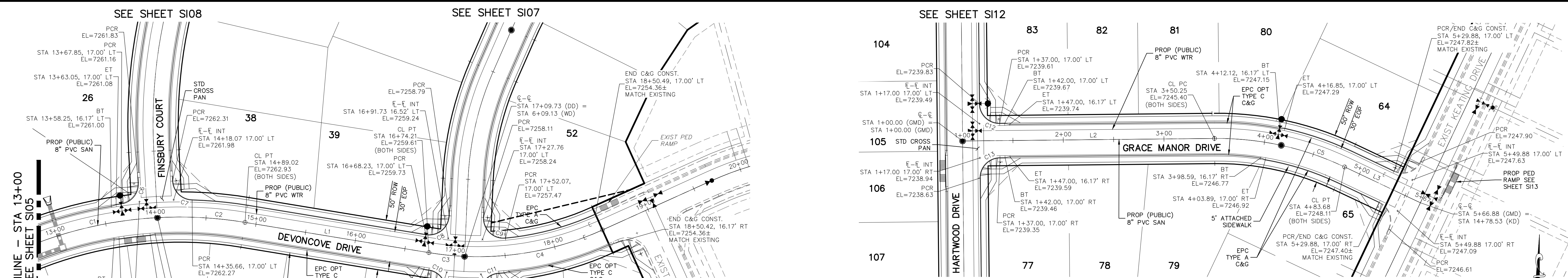
212 N. WAHATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.



FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
 MARGIE A. SANCHEZ, COLORADO P.E. NO. 37160
 REGISTERED PROFESSIONAL ENGINEER
 37160
 3-22-21

NO.	DATE	BY	DESCRIPTION



ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPCAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNUCKLE	R/W	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
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GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

CENTERLINE LINE TABLE

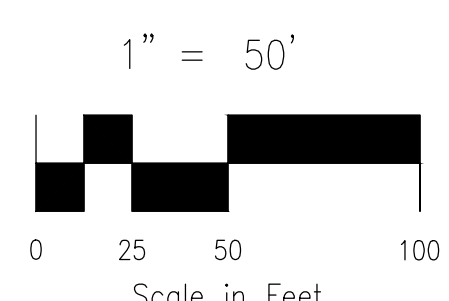
LINE	LENGTH	DIRECTION
L1	185.19'	S31°00'00"E
L2	250.25'	N89°25'00"E
L3	83.19'	S64°40'00"E

CENTERLINE CURVE TABLE

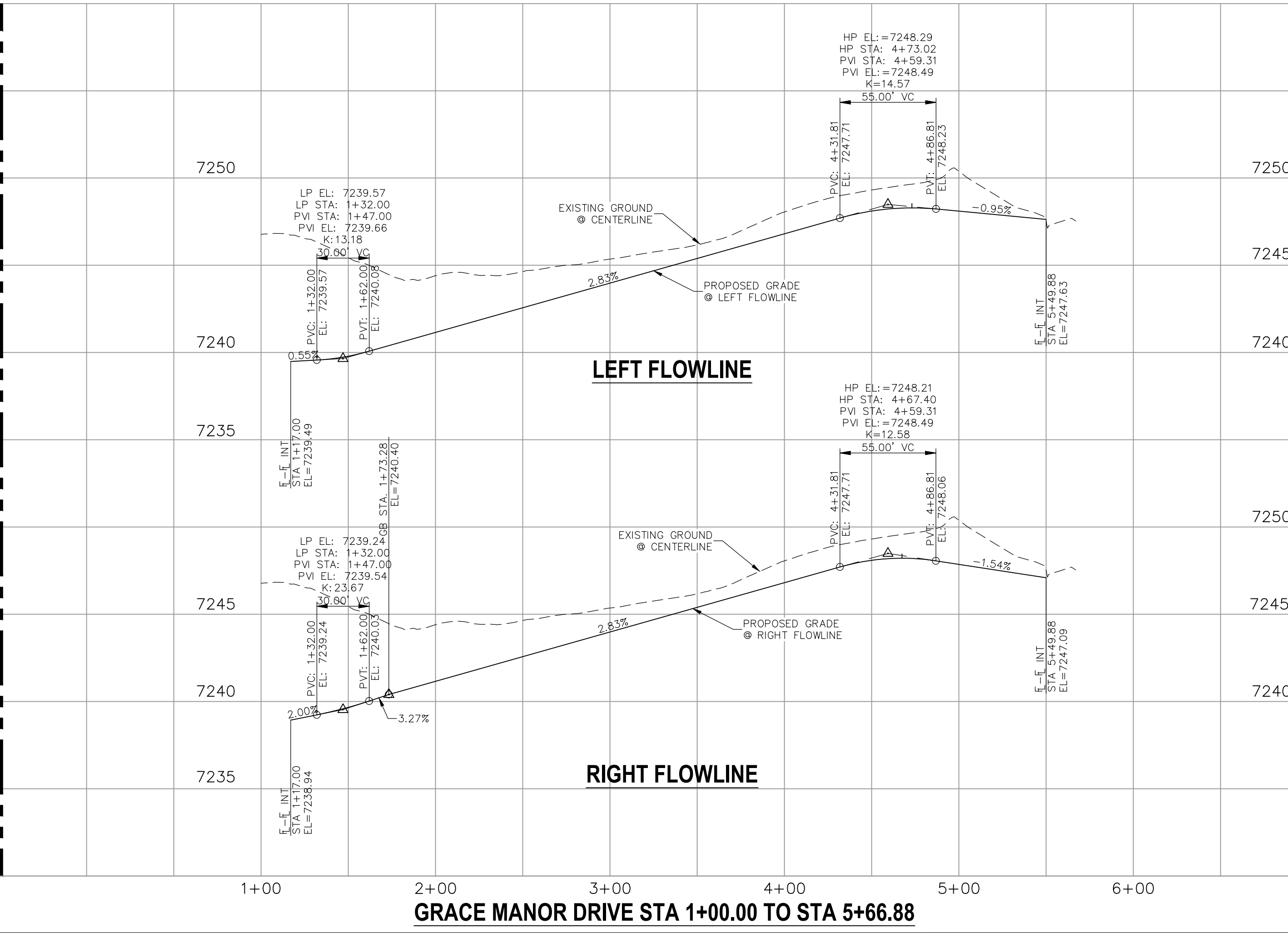
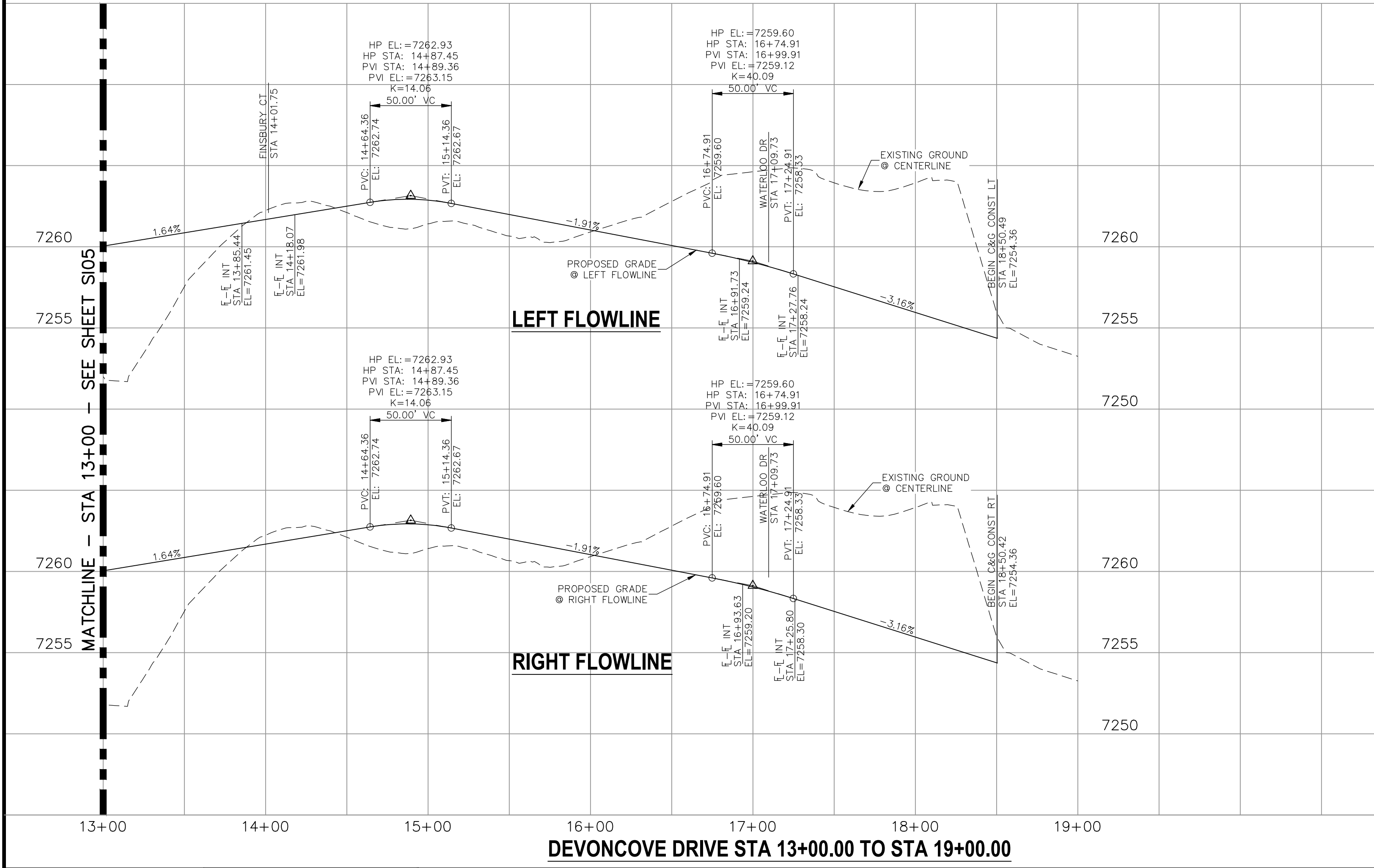
CURVE	RADIUS	LENGTH	DELTA
C1	400.00'	328.70'	47°05'00"
C2	400.00'	87.27'	12°30'00"
C3	300.00'	35.51'	6°46'58"
C4	300.00'	140.76'	26°53'02"
C5	295.00'	133.44'	25°55'00"

PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C6	19.80	29.41	85.11
C7	19.50	28.98	85.14
C8	20.00	33.78	96.78
C9	20.00	34.24	98.09
C10	20.00	29.22	83.70
C11	20.00	29.22	83.70
C12	20.00	31.42	90.00
C13	20.00	31.42	90.00



- NOTES:**
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 - ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
 - ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEET S116 & S117 FOR INTERSECTION DETAILS.



STATEMENT:
 THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:

REVIEW:

TRAFFIC ENGINEERING: _____ DATE: _____

CURB & GUTTER: _____ DATE: _____

FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN:

DRAINAGE REVIEW: _____ DATE: _____

FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:

SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____

LOCATION: Attached AC Surface _____

Detached CENTERED IN 5' EASEMENT AB Base _____

CURB TYPE A AGG. BASE THICKNESS: _____

CURB TYPE C Class 6 _____

ROW WIDTH 50' EOP-EOP 30' Class 5 _____

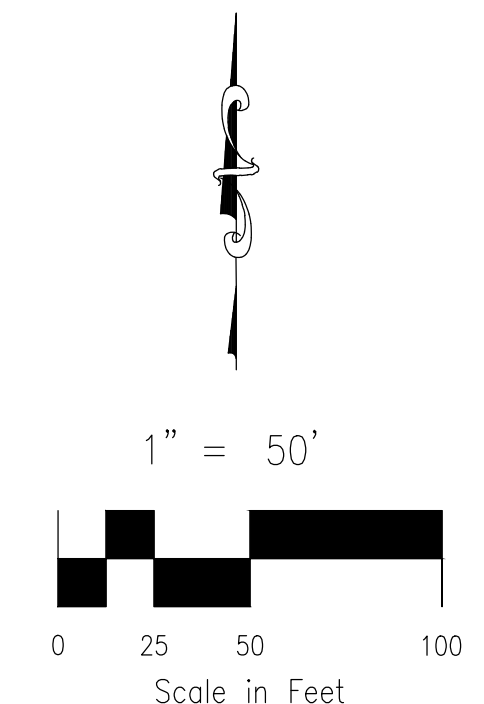
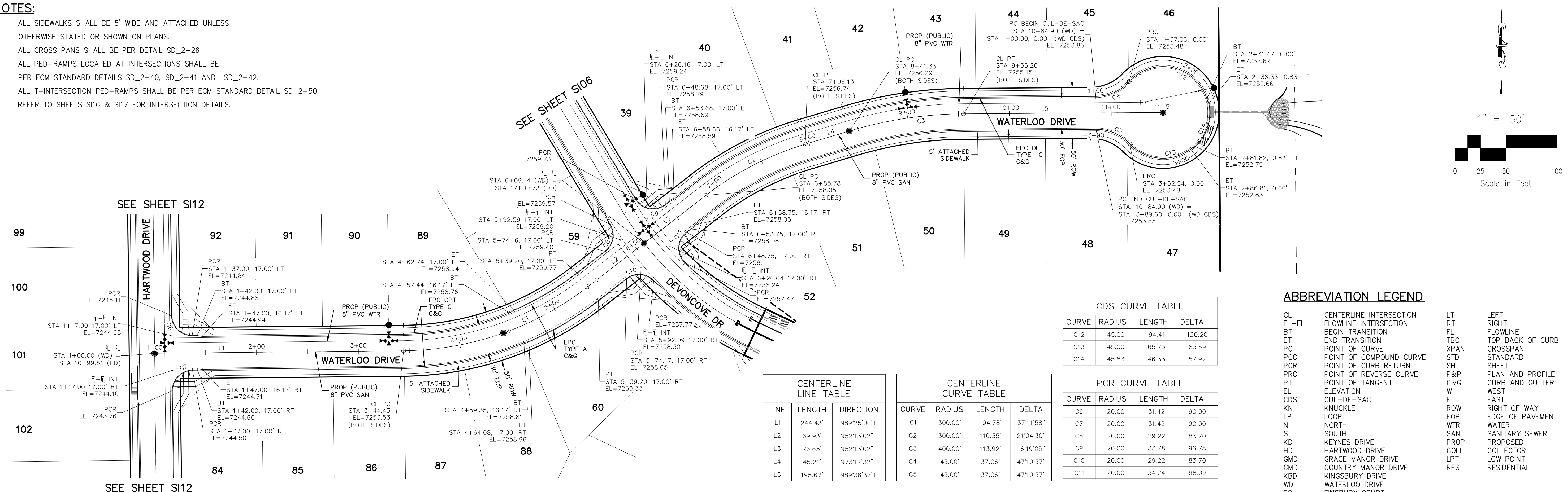
STREET TYPE RESIDENTIAL HVEEM Class 2 _____

DESIGN SPEED 25 MPH _____

CAUTION

NOTES:

1. ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
2. ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
3. ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
4. ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
5. REFER TO SHEETS SI16 & SI17 FOR INTERSECTION DETAILS.



CDS CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C12	45.00	94.41	120.20
C13	45.00	65.73	83.69
C14	45.83	46.33	57.92

CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L1	244.43'	N89°25'00"E
L2	69.93'	N52°13'02"E
L3	76.65'	N52°13'02"E
L4	45.21'	N73°17'32"E
L5	195.67'	N89°36'37"E

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	300.00'	194.78'	37°11'58"
C2	300.00'	110.35'	21°04'30"
C3	400.00'	113.92'	16°19'05"
C4	45.00'	37.06'	47°10'57"
C5	45.00'	37.06'	47°10'57"

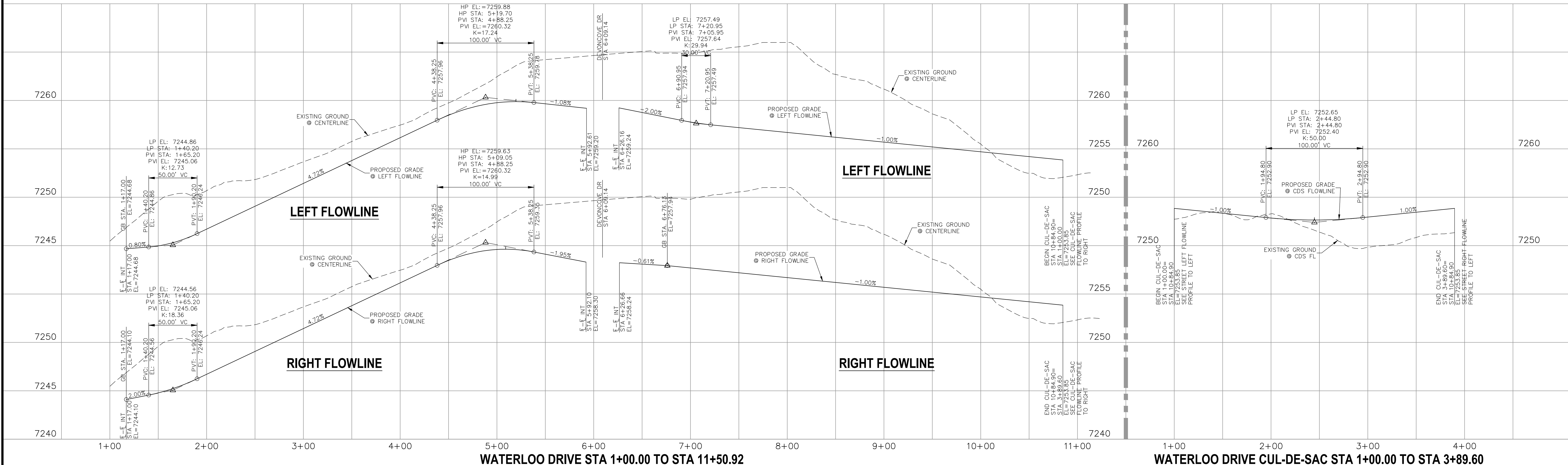
PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C6	20.00'	31.42'	90.00
C7	20.00'	31.42'	90.00
C8	20.00'	29.22'	83.70
C9	20.00'	33.78'	96.78
C10	20.00'	29.22'	83.70
C11	20.00'	34.24'	98.09

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNUCKLE	ROW	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

**WATERLOO DRIVE
STA 1+00.00 TO STA 11+50.92**



STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN:
DRAINAGE REVIEW: _____ DATE: _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:
SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
LOCATION: Attached AC Surface _____
Detached CENTERED IN 5' EASEMENT AB Base _____
CURB TYPE: A AGG. BASE THICKNESS: _____
CURB TYPE: C Class 6 _____
ROW WIDTH: 50' EOP-EOP 30' Class 5 _____
STREET TYPE: RESIDENTIAL HVEEM Class 2 _____
DESIGN SPEED: 25 MPH

PAINT BRUSH HILLS FILING NO. 14
STREET IMPROVEMENT PLANS
PROJECT NO. 10-014
DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: JWP
DRAWN BY: JWP
CHECKED BY: GW

212 N. WAHATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 3-22-21

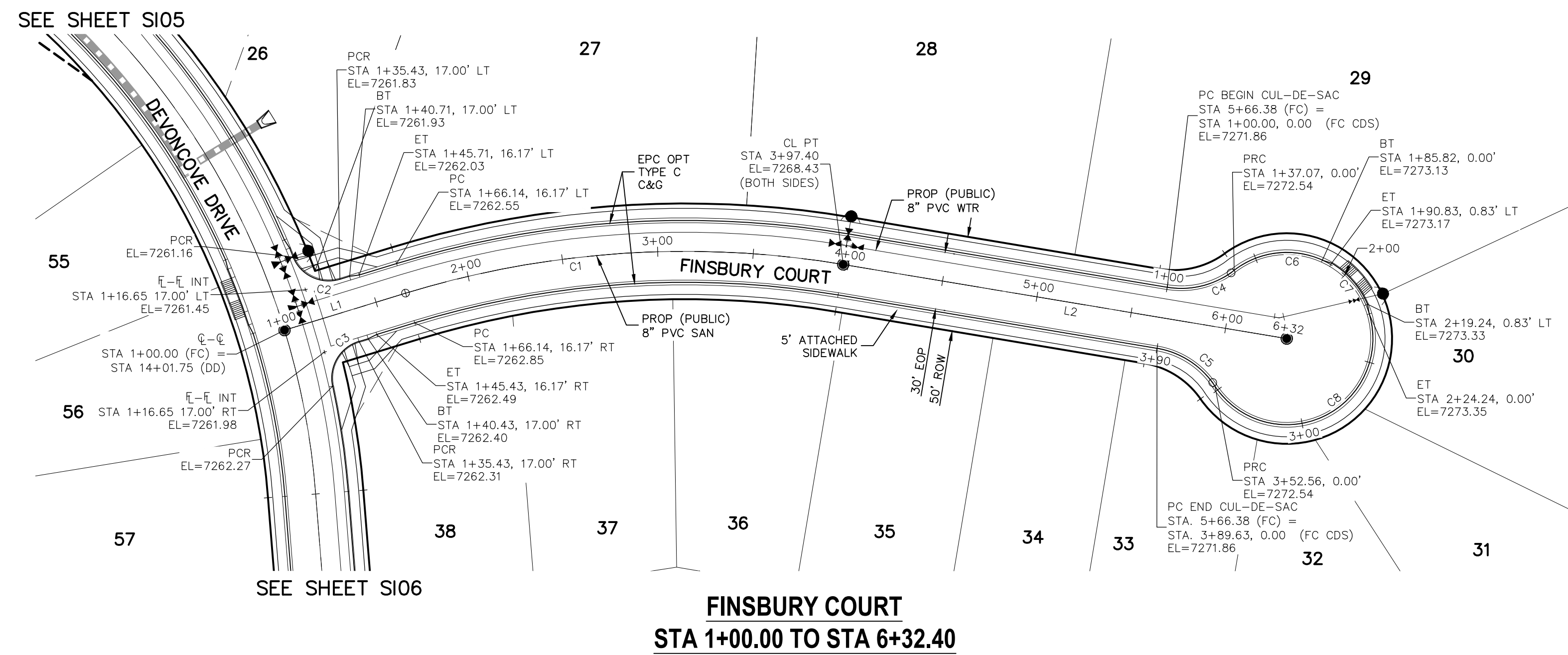
REVISIONS:
NO. DATE BY DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

NOTES:

1. ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
2. ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
3. ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
4. ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
5. REFER TO SHEET SI17 FOR INTERSECTION DETAILS.



ABBREVIATION LEGEND

CL-FL	CENTERLINE INTERSECTION FLOWLINE INTERSECTION	LT	LEFT
BT	BEGIN TRANSITION	RT	RIGHT
ET	END TRANSITION	FL	FLOWLINE
PC	POINT OF CURVE	TBC	TOP BACK OF CURB
PCC	POINT OF COMPOUND CURVE	XPAN	CROSSSPAN
PCR	POINT OF CURB RETURN	STD	STANDARD
PRC	POINT OF REVERSE CURVE	SHT	SHEET
PT	POINT OF TANGENT	P&P	PLAN AND PROFILE
EL	ELEVATION	C&G	CURB AND GUTTER
CDS	CUL-DE-SAC	W	WEST
KN	KNUCKLE	E	EAST
LP	LOOP	R	RIGHT OF WAY
N	NORTH	EOP	EDGE OF PAVEMENT
S	SOUTH	WTR	WATER
KD	KEYNES DRIVE	SAN	SANITARY SEWER
HD	HARTWOOD DRIVE	PROP	PROPOSED
GMD	GRACE MANOR DRIVE	COLL	COLLECTOR
CMD	COUNTRY MANOR DRIVE	LPT	LOW POINT
KBD	KINGSBURY DRIVE	RES	RESIDENTIAL
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOKE DRIVE		
HP	HIGH POINT		

PAINT BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

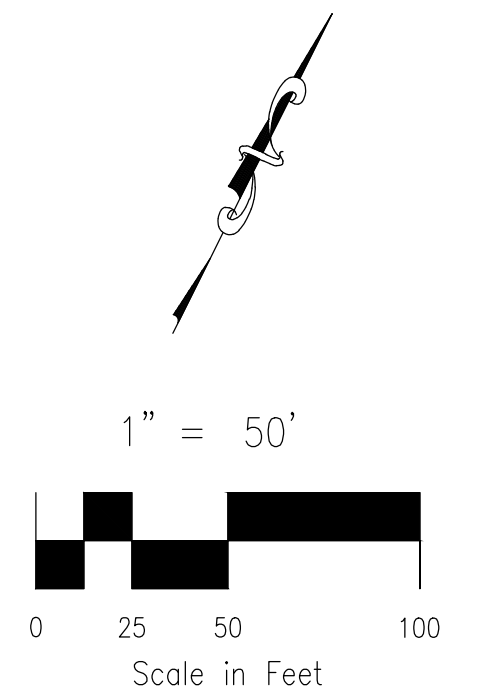
PROJECT NO. 10-014
 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

DESIGNED BY: JWP
 DRAWN BY: JWP
 CHECKED BY: GW

SHEET 8 OF 30
 S108

212 N. WASHATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.



CENTERLINE LINE TABLE

LINE	LENGTH	DIRECTION
L1	66.14'	N46°30'00"E
L2	235.00'	N73°00'00"E

CENTERLINE CURVE TABLE

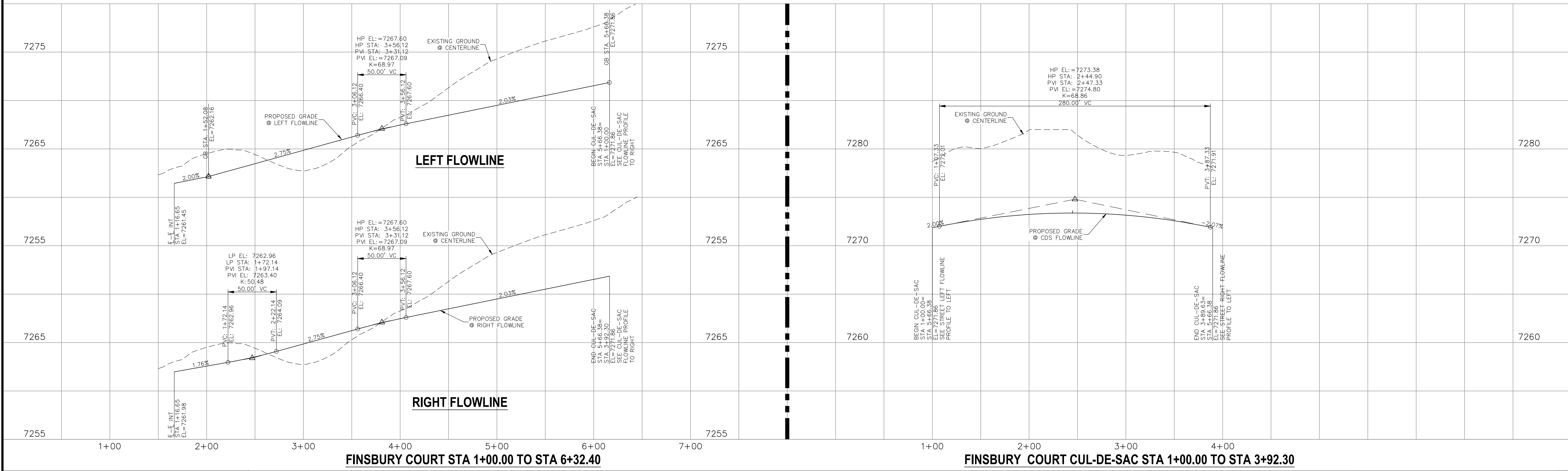
CURVE	RADIUS	LENGTH	DELTA
C1	500.00'	231.26'	26°30'00"

PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C2	20.00	29.72	85.14
C3	20.00	29.72	85.14
C4	45.00	37.06	47.18
C5	46.17	38.02	47.18

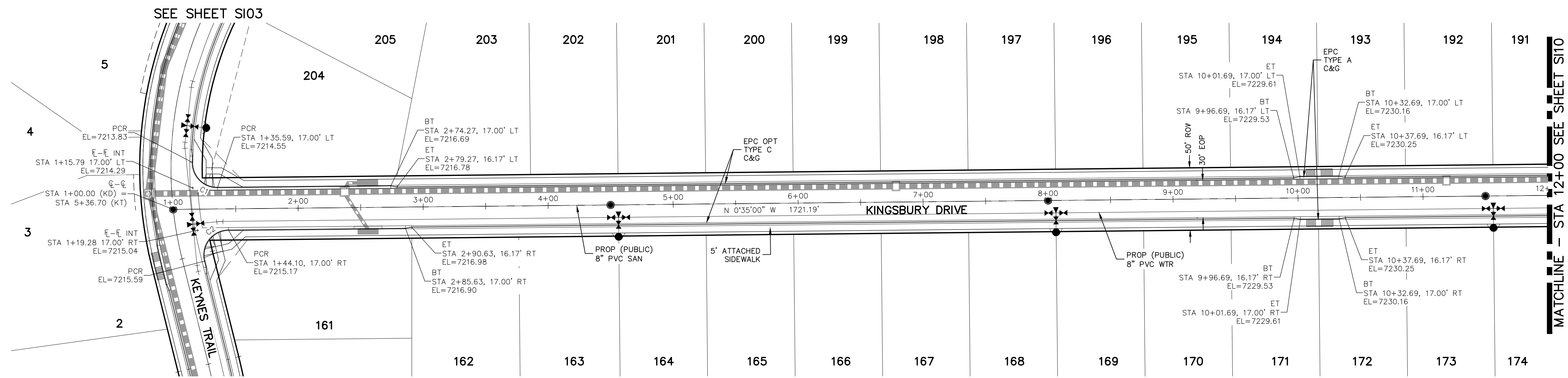
CDS CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C6	45.00	48.75	62.07
C7	45.83	28.93	36.17
C8	45.00	128.32	163.38



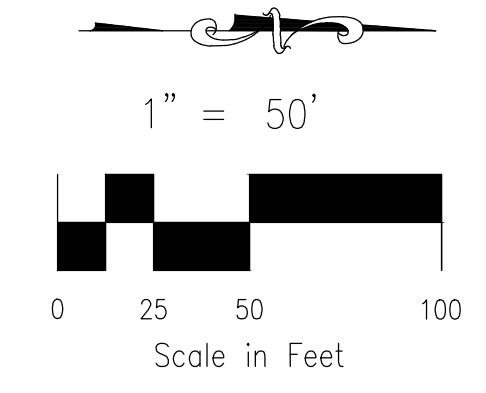
<p>STATEMENT:</p> <p>THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.</p>	<p>FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES</p> <p>FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987</p>	<p>STREET DESIGN:</p> <p>TRAFFIC ENGINEERING: _____ DATE: _____</p> <p>CURB & GUTTER: _____ DATE: _____</p> <p>FINAL REVIEW: _____ DATE: _____</p>	<p>DESIGN DATA:</p> <p>SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____</p> <p>LOCATION: Attached <input checked="" type="checkbox"/> CENTERED IN 5' EASEMENT AC Surface _____</p> <p>Detached <input type="checkbox"/> AB Base _____</p> <p>CURB TYPE: A <input checked="" type="checkbox"/> B _____ AGG. BASE THICKNESS: _____</p> <p>CURB TYPE: C <input type="checkbox"/> B _____ Class 6 _____</p> <p>ROW WIDTH: 50' EOP-EOP 30' Class 5 _____</p> <p>STREET TYPE: RESIDENTIAL HVEEM _____ Class 2 _____</p> <p>DESIGN SPEED: 25 MPH _____</p>						
		<p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE:</th> <th>BY:</th> <th>DESCRIPTION:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE:	BY:	DESCRIPTION:			
NO.	DATE:	BY:	DESCRIPTION:						

CAUTION



PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	20.00	31.95	91.53
C2	20.00	36.10	103.42



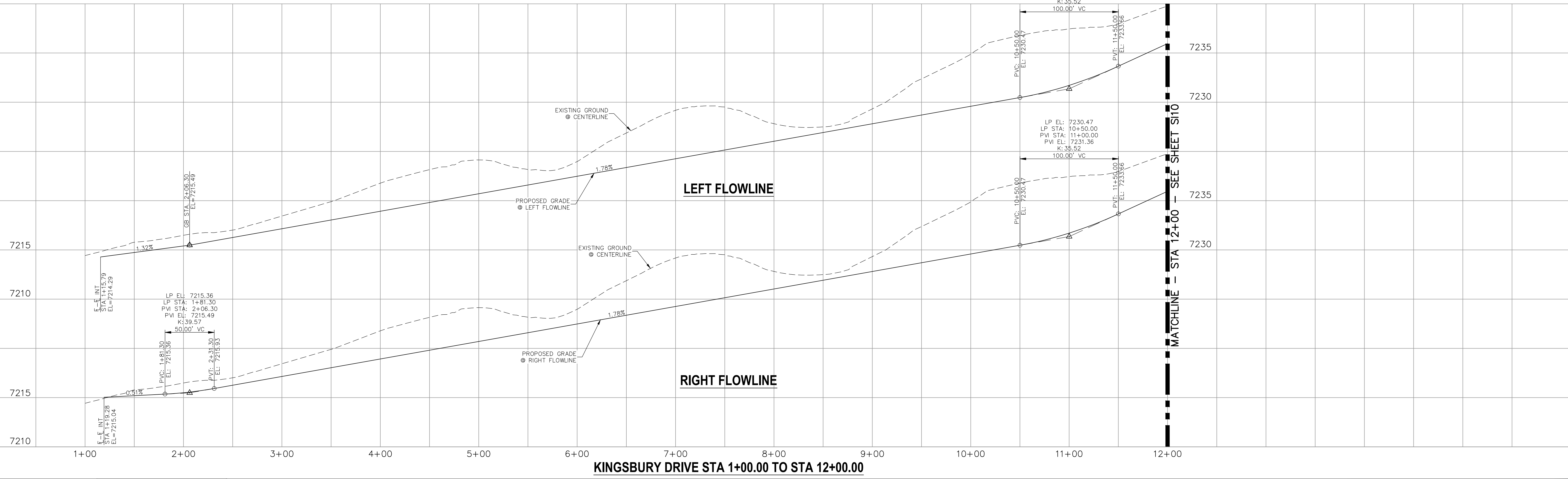
**KINGSBURY DRIVE
STA 1+00.00 TO STA 12+00.00**

NOTES:

- ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
- ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
- ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
- ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
- REFER TO SHEET SI14 FOR INTERSECTION DETAILS.

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNUCKLE	ROW	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		



KINGSBURY DRIVE STA 1+00.00 TO STA 12+00.00

STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION CALL 1-800-922-1987

STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN:
DRAINAGE REVIEW: _____ DATE: _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:
SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
LOCATION: Attached Detached CENTERED IN 5' EASEMENT AC Surface _____ AB Base _____
CURB TYPE A B AGG. BASE THICKNESS: _____
CURB TYPE C Class 6 _____
ROW WIDTH 50' EOP-EOP 30' Class 5 _____
STREET TYPE RESIDENTIAL HVEEM Class 2 _____
DESIGN SPEED 25 MPH

PAINT BRUSH HILLS FILING NO. 14
STREET IMPROVEMENT PLANS
PROJECT NO. 10-014 DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: JWP
SHEET 9 OF 30 S109

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

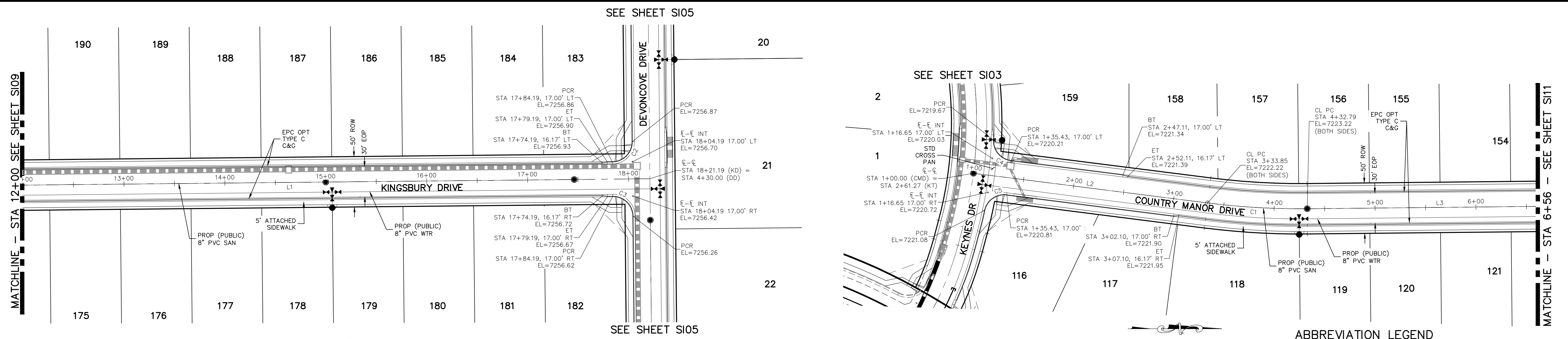
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

NO. DATE: BY: DESCRIPTION: APPROVED BY: DATE: REVISIONS:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



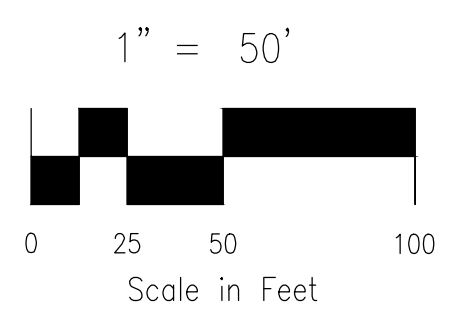
**KINGSBURY DRIVE
STA 12+00.00 TO STA 18+21.19**

**COUNTRY MANOR DRIVE
STA 1+00.00 TO STA 6+56.00**

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
ELEVATION	ELEVATION	W	WEST
CUL-DE-SAC	CUL-DE-SAC	E	EAST
KN	KNUCKLE	ROW	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

- NOTES:**
- ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
 - ALL CROSS PANS SHALL BE PER DETAIL SD_2-26
 - ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEETS S14-S15 FOR INTERSECTION DETAILS.



CENTERLINE LINE TABLE

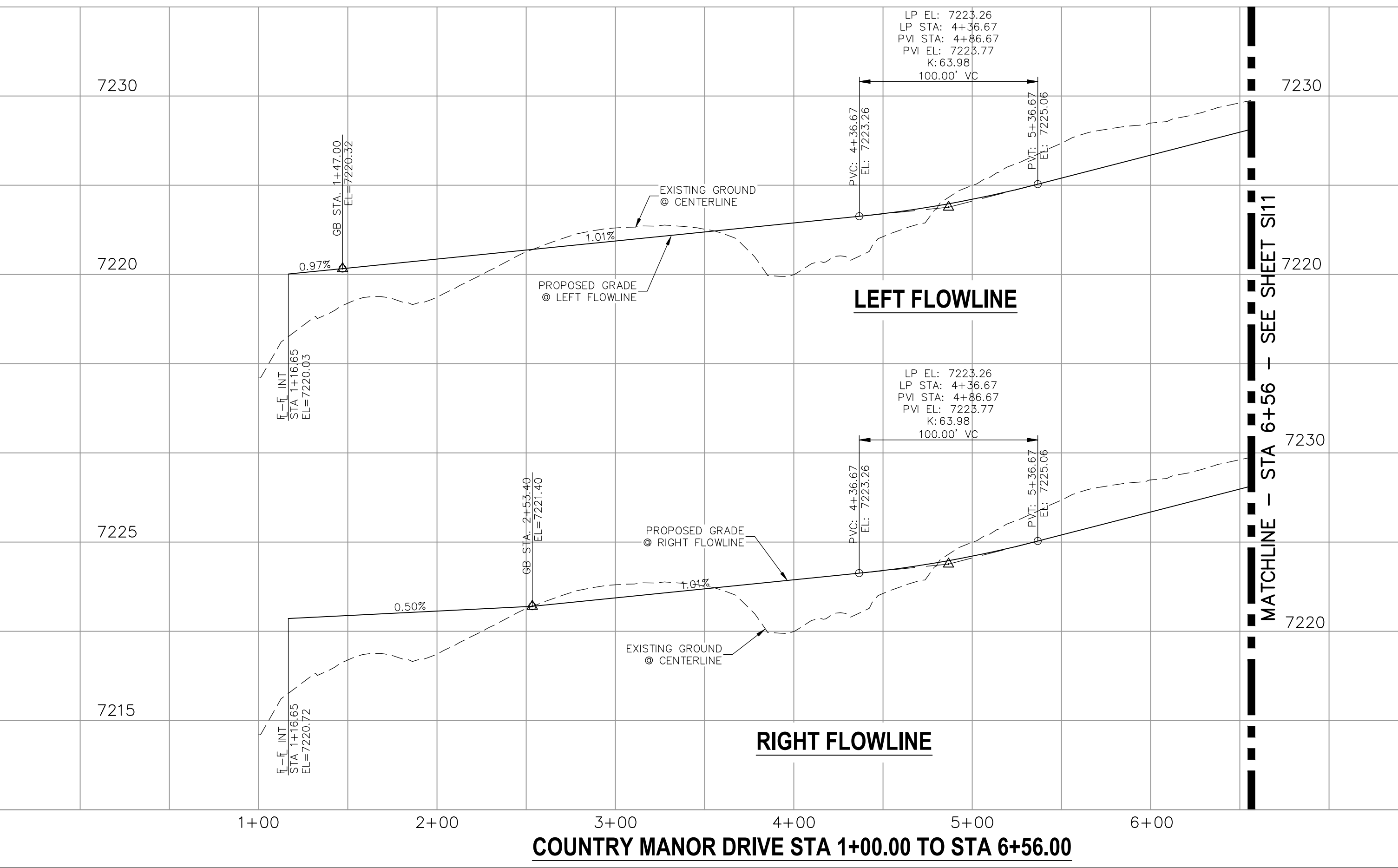
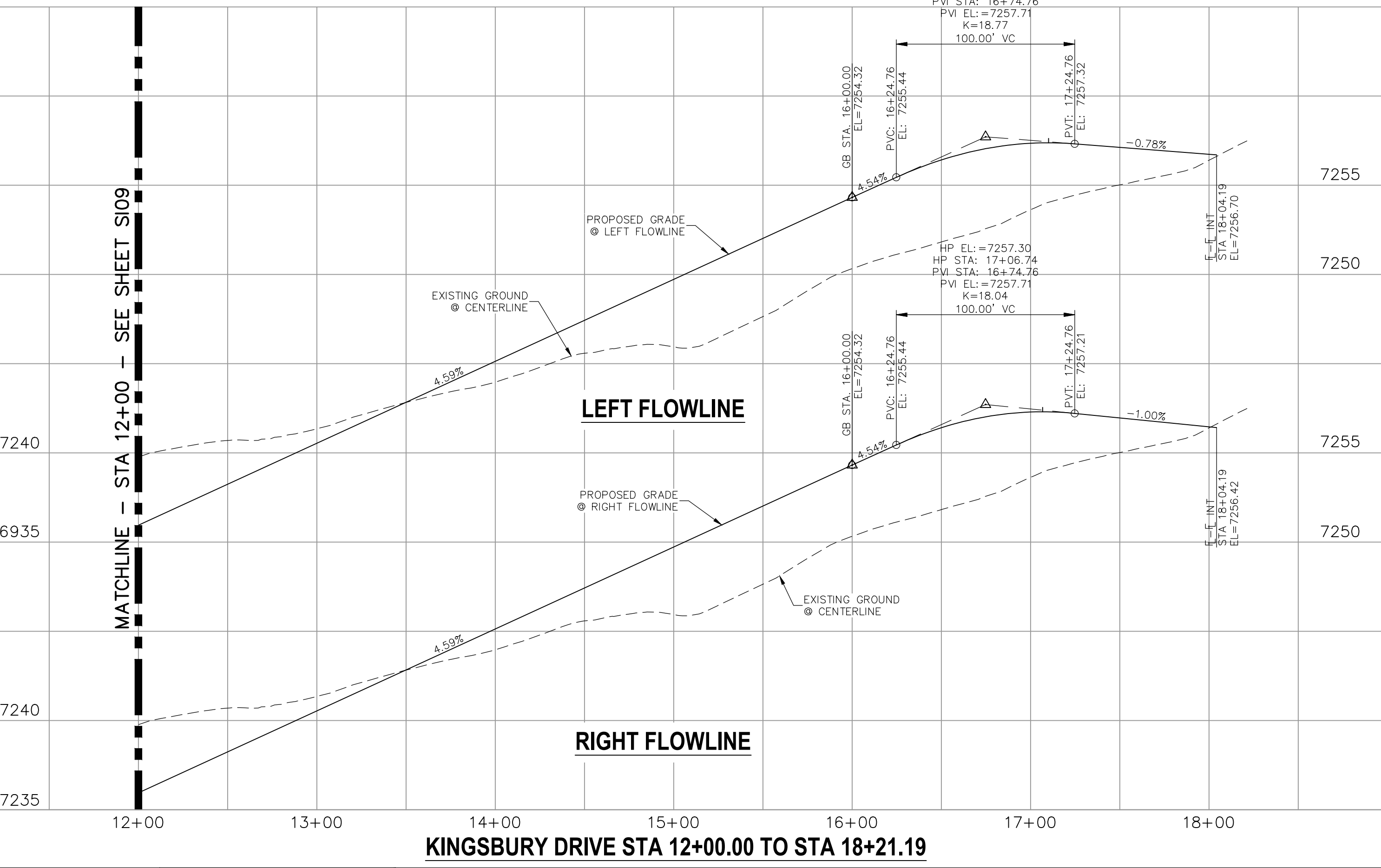
LINE	LENGTH	DIRECTION
L1	1721.19'	N0°35'00"W
L2	233.85'	N71°4'09"E
L3	1356.82'	N0°35'00"W

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	725.00'	98.94'	7°49'08"

PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C2	20.00'	31.42'	90.00°
C3	20.00'	31.42'	90.00°
C4	20.00'	29.72'	85.14°
C5	20.00'	29.72'	85.14°



STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN:
DRAINAGE REVIEW: _____ DATE: _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:

SIDEWALKS: WIDTH 5'	ASPHALT THICKNESS: _____
LOCATION: Attached <input checked="" type="checkbox"/>	AC Surface _____
Detached <input type="checkbox"/>	AB Base _____
CURB TYPE: A <input checked="" type="checkbox"/>	AGG. BASE THICKNESS: _____
CURB TYPE: C <input type="checkbox"/>	Class 6 _____
ROW WIDTH: 50'	EOP-EOP 30'
STREET TYPE: RESIDENTIAL	HVEM _____
DESIGN SPEED: 25 MPH	Class 2 _____

212 N. WARSATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

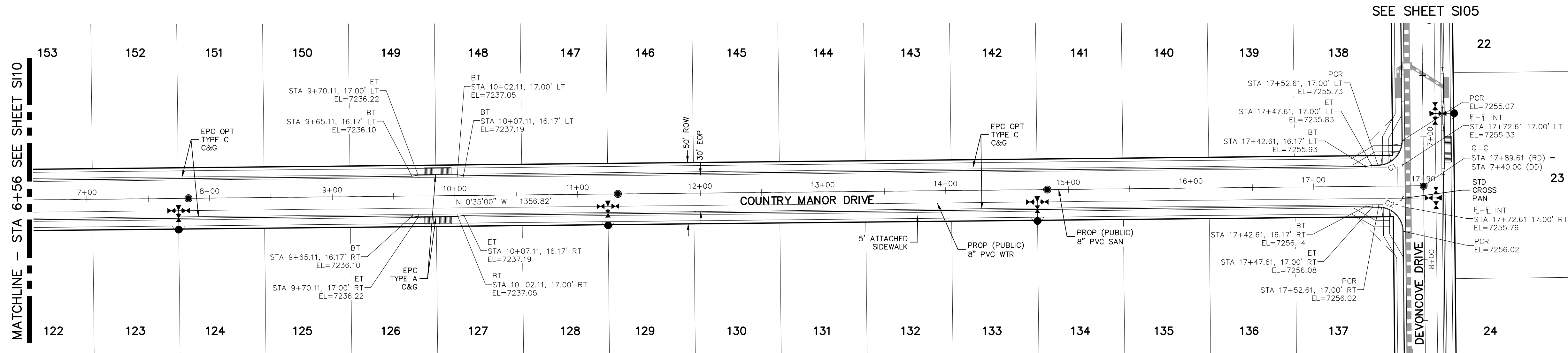
REVISIONS:

NO.	DATE	BY	DESCRIPTION

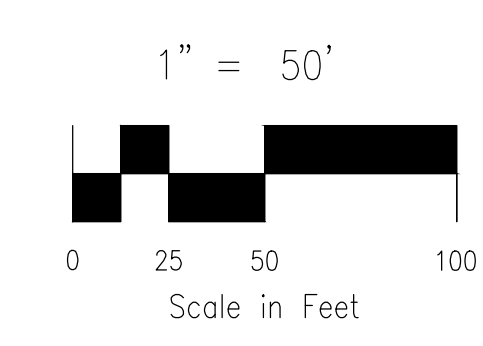
APPROVED BY: _____ DATE: _____

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CAUTION



PCR CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C1	20.00	31.42	90.00
C2	20.00	31.42	90.00

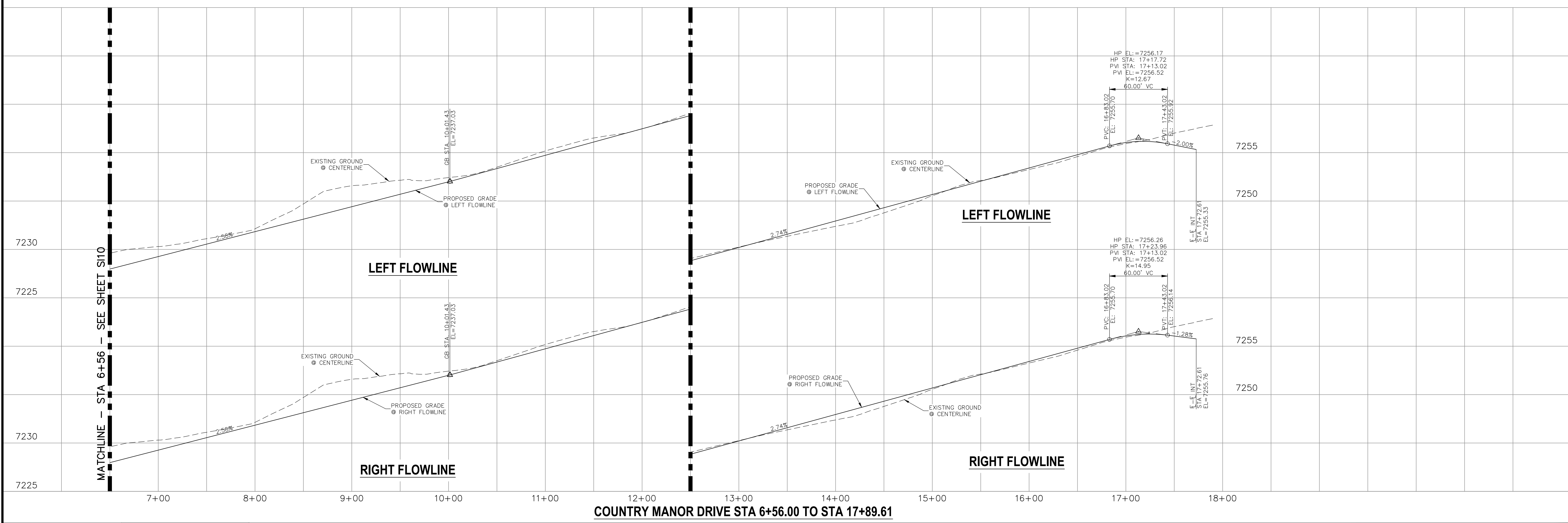


ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNUCKLE	ROW	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
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KBD	KINGSBURY DRIVE		
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DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

- NOTES:**
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 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEET S115 FOR INTERSECTION DETAILS.

**COUNTRY MANOR DRIVE
STA 6+56.00 TO STA 17+89.61**



STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:		DESIGN DATA:	
TRAFFIC ENGINEERING:	DATE:	SIDEWALKS: WIDTH 5'	ASPHALT THICKNESS:
CURB & GUTTER:	DATE:	LOCATION: Attached	AC Surface
FINAL REVIEW:	DATE:	Detached <input type="checkbox"/> CENTERED IN 5' EASEMENT	AB Base
DRAINAGE DESIGN:		CURB TYPE A	AGG. BASE THICKNESS:
DRAINAGE REVIEW:	DATE:	CURB TYPE C	Class 6
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.		ROW WIDTH 50'	Class 5
		STREET TYPE RESIDENTIAL	Class 2
		DESIGN SPEED 25 MPH	

PAINT BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DRAWN BY: JWP SHEET 11 OF 30

CHECKED BY: GW S111

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

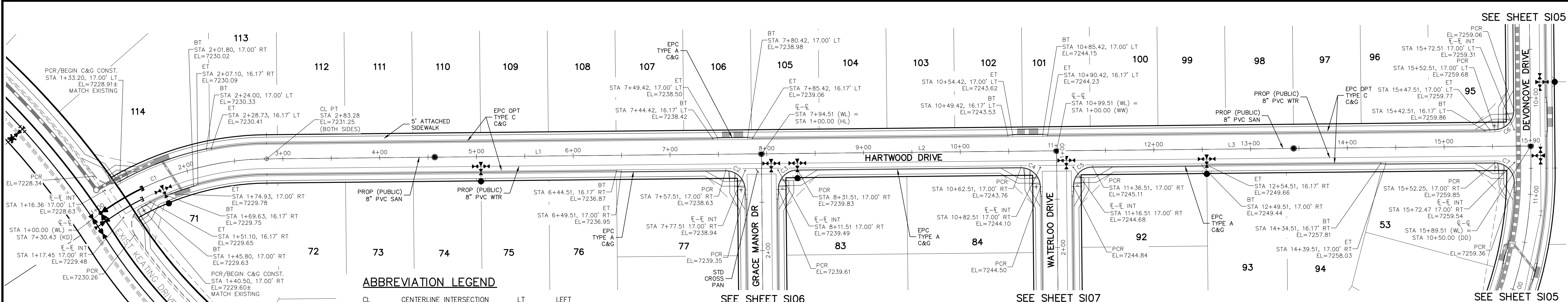
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MIRCEL A. SANCHEZ, COLORADO P.E. NO. 37160

NO. DATE: BY: DESCRIPTION: APPROVED BY: DATE:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



- NOTES:**
- ALL SIDEWALKS SHALL BE 5' WIDE AND ATTACHED UNLESS OTHERWISE STATED OR SHOWN ON PLANS.
 - ALL CROSS SHALL BE PER DETAIL SD_2-26
 - ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
 - ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
 - REFER TO SHEET S115 & S116 FOR INTERSECTION DETAILS.

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPCAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
E	ELEVATION	W	WEST
CDS	CUL-DE-SAC	E	EAST
KN	KNICKLE	ROW	RIGHT OF WAY
LP	LOOP	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
KD	KEYNES DRIVE	PROP	PROPOSED
HD	HARTWOOD DRIVE	COLL	COLLECTOR
GMD	GRACE MANOR DRIVE	LPT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

**HARTWOOD DRIVE
STA 1+00.00 TO STA 15+89.51**

CENTERLINE LINE TABLE

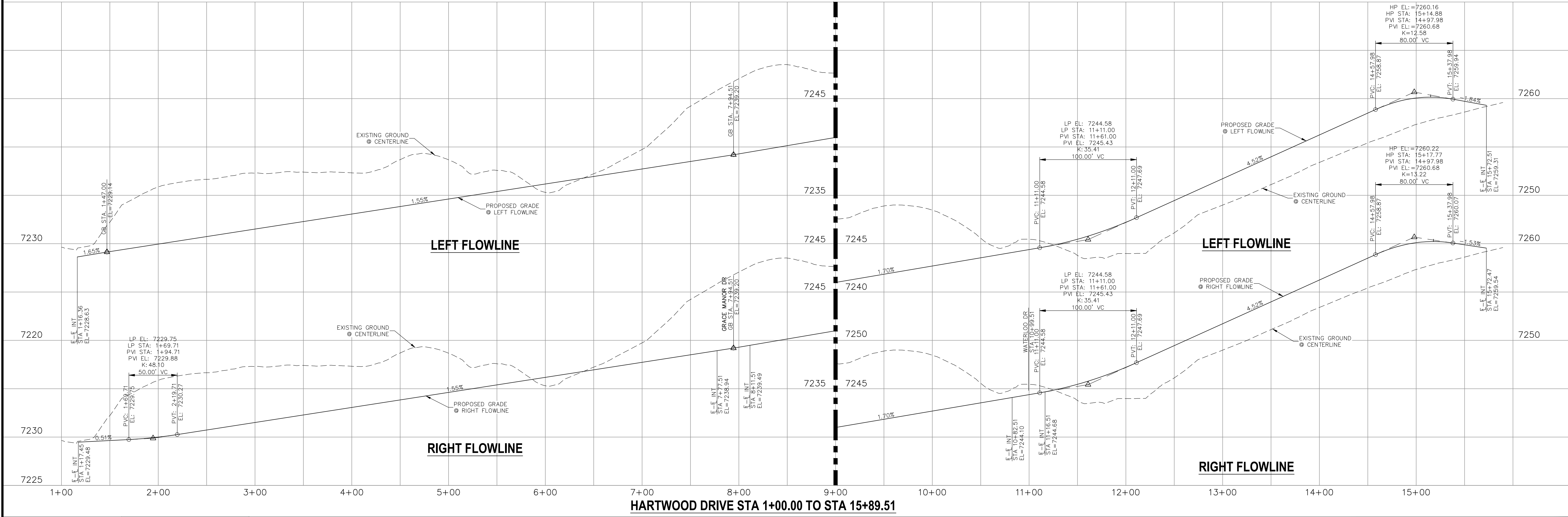
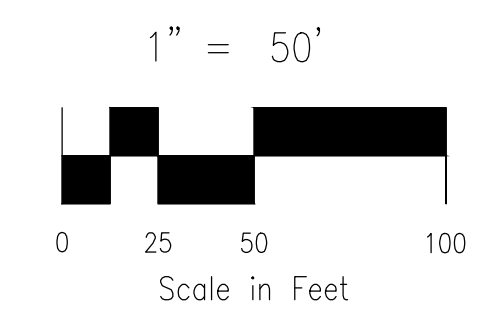
LINE	LENGTH	DIRECTION
L1	511.23'	N0°35'00"W
L2	305.00'	N0°35'00"W
L3	490.00'	N0°35'00"W

CENTERLINE CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C1	300.00'	183.28'	35°00'16"

PCR CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C2	20.00'	31.42'	90.00'
C3	20.00'	31.42'	90.00'
C4	20.00'	31.42'	90.00'
C5	20.00'	31.42'	90.00'
C6	20.00'	31.42'	90.00'
C7	20.00'	32.18'	92.20'



<p>STATEMENT:</p> <p>THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.</p>	<p>FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES</p> <p>FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987</p>	<p>STREET DESIGN:</p> <p>TRAFFIC ENGINEERING: _____ DATE: _____</p> <p>CURB & GUTTER: _____ DATE: _____</p> <p>FINAL REVIEW: _____ DATE: _____</p> <p>DRAINAGE DESIGN:</p> <p>DRAINAGE REVIEW: _____ DATE: _____</p> <p>FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.</p>	<p>DESIGN DATA:</p> <p>SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____</p> <p>LOCATION: Attached <input checked="" type="checkbox"/> AC Surface _____</p> <p>Detached <input type="checkbox"/> CENTERED IN 5' EASEMENT AB Base _____</p> <p>CURB TYPE A <input checked="" type="checkbox"/> AGG. BASE THICKNESS: _____</p> <p>CURB TYPE C <input type="checkbox"/> Class 6 _____</p> <p>ROW WIDTH 50' EOP-EOP 30' Class 5 _____</p> <p>STREET TYPE RESIDENTIAL HVEEM Class 2 _____</p> <p>DESIGN SPEED 25 MPH _____</p>				
				<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION
NO.	DATE	DESCRIPTION					

PAINT BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: GW

SHEET 12 OF 30 S112

212 N. WASHCATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

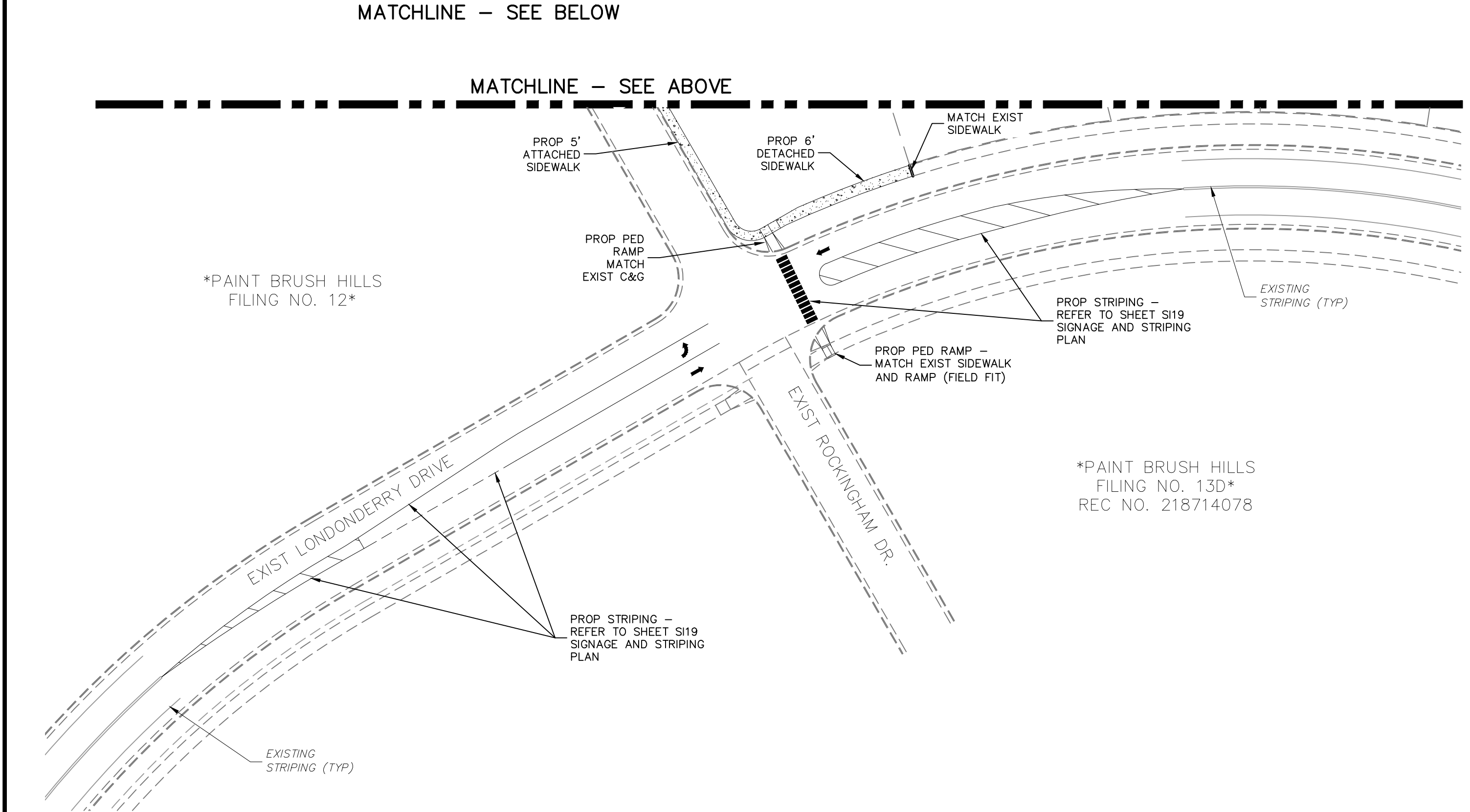
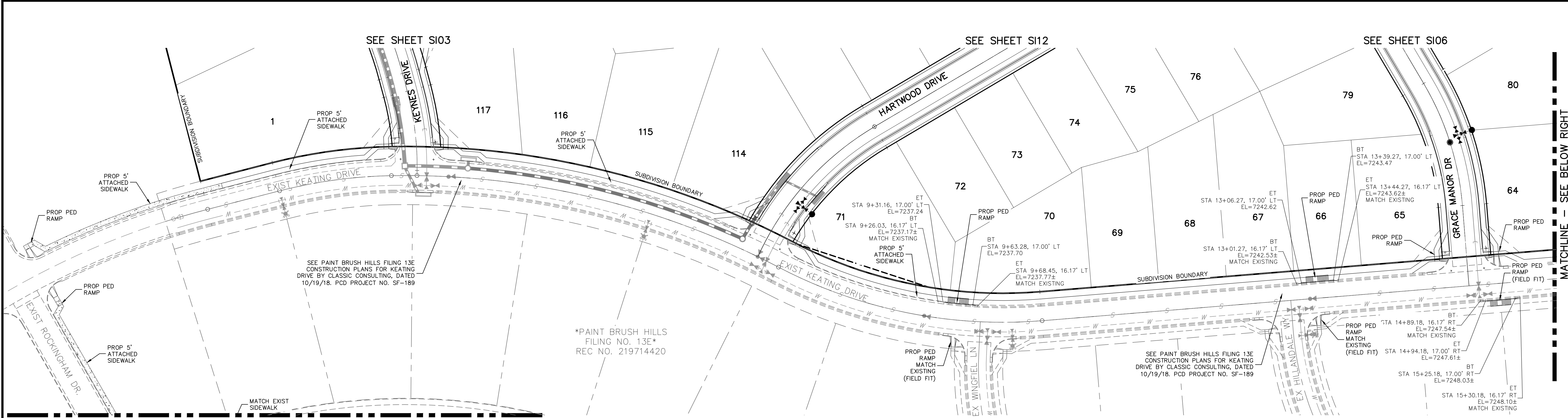
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

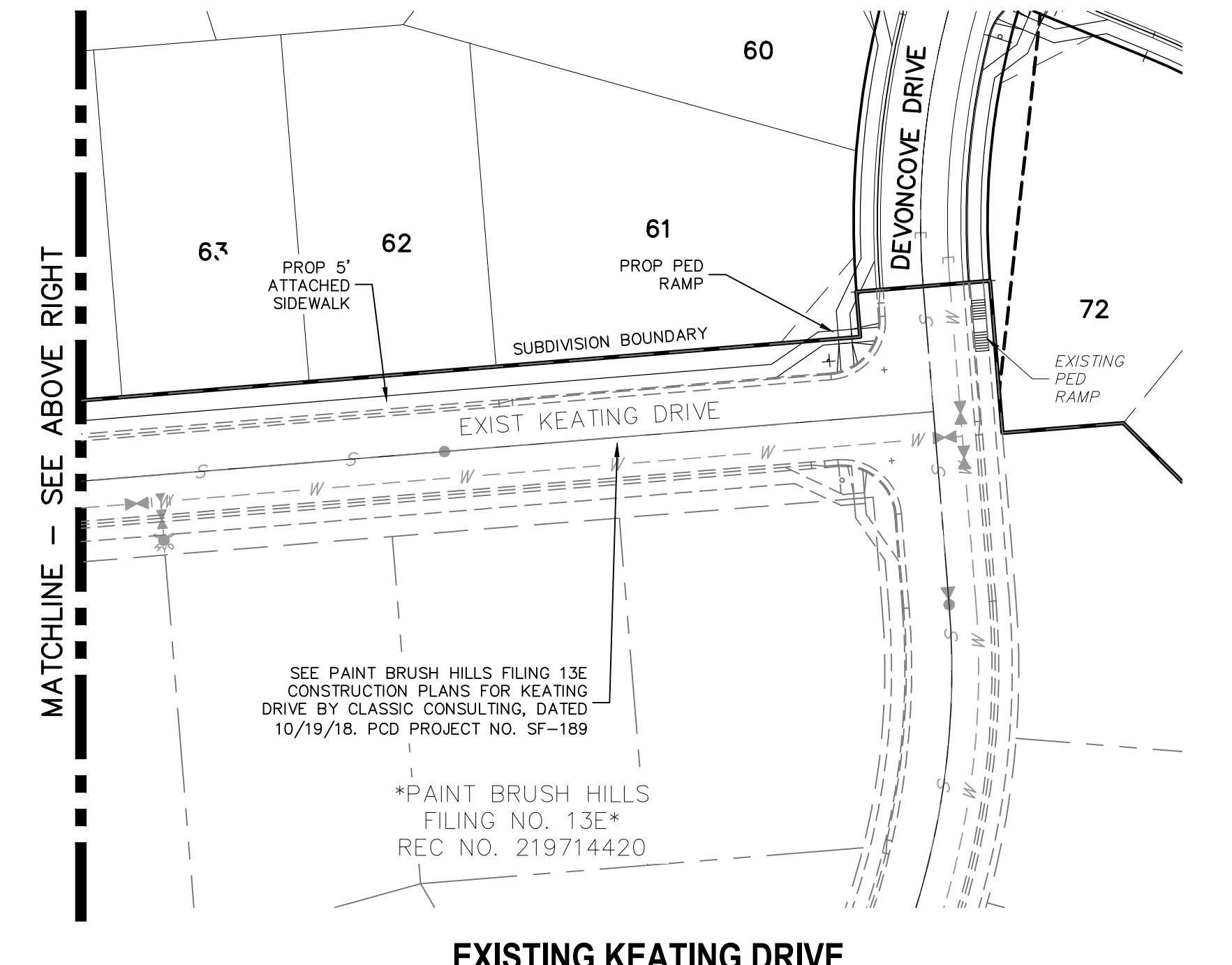
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EXISTING KEATING DRIVE

ABBREVIATION LEGEND

CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	FL	TOP BACK OF CURB
ET	END TRANSITION	TBC	CROSSSPAN
PC	POINT OF CURVE	XPAN	STANDARD SHEET
PCC	POINT OF COMPOUND CURVE	STD	PLAN AND PROFILE
PCR	POINT OF CURB RETURN	SHT	CURB AND GUTTER
PRC	POINT OF REVERSE CURVE	P&P	C&G
PT	POINT OF TANGENT	W	WEST
EL	ELEVATION	E	EAST
CDS	CUL-DE-SAC	ROW	RIGHT OF WAY
KN	KNUCKLE	EOP	EDGE OF PAVEMENT
LP	LOOP	WTR	WATER
N	NORTH	SAN	SANITARY SEWER
S	SOUTH	PROP	PROPOSED
KD	KEYNES DRIVE	COLL	COLLECTOR
HD	HARTWOOD DRIVE	LPT	LOW POINT
GMD	GRACE MANOR DRIVE	RES	RESIDENTIAL
CMD	COUNTRY MANOR DRIVE		
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

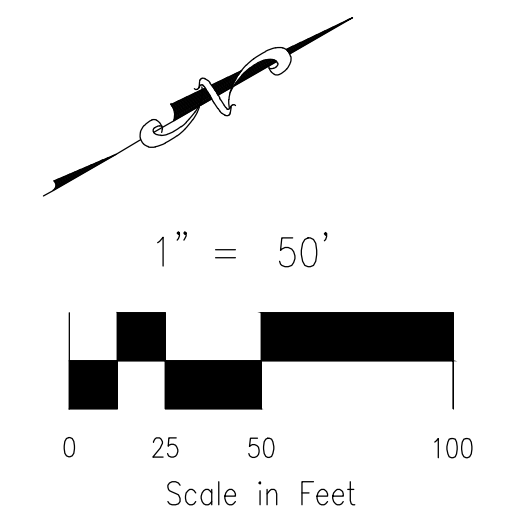


EXISTING KEATING DRIVE

**OFFSITE IMPROVEMENTS
EXISTING LONDONDERRY DRIVE**

NOTES:

- INSTALL 5' WIDE ATTACHED SIDEWALK AND PEDESTRIAN RAMPS ALONG EXISTING KEATING DRIVE, ROCKINGHAM DRIVE AND LONDONDERRY DRIVE ONLY WHERE SHOWN ON THESE PLANS.
- ALL PED-RAMPS LOCATED AT INTERSECTIONS SHALL BE PER ECM STANDARD DETAILS SD_2-40, SD_2-41 AND SD_2-42.
- ALL T-INTERSECTION PED-RAMPS SHALL BE PER ECM STANDARD DETAIL SD_2-50.
- REFER TO SHEETS SI14, SI16 & SI17 FOR INTERSECTION DETAILS.



STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.



STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____
DRAINAGE DESIGN:
DRAINAGE REVIEW: _____ DATE: _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:
SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
LOCATION: Attached AC Surface _____
Detached CENTERED IN 5' EASEMENT AB Base _____
CURB TYPE A AGG. BASE THICKNESS: _____
CURB TYPE C Class 6 _____
ROW WIDTH 50' EOP-EOP 30' Class 5 _____
STREET TYPE RESIDENTIAL HVEEM Class 2 _____
DESIGN SPEED 25 MPH

PAINT BRUSH HILLS FILING NO. 14
STREET IMPROVEMENT PLANS
PROJECT NO. 10-014 DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: JWP
SHEET 13 OF 30
S13

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

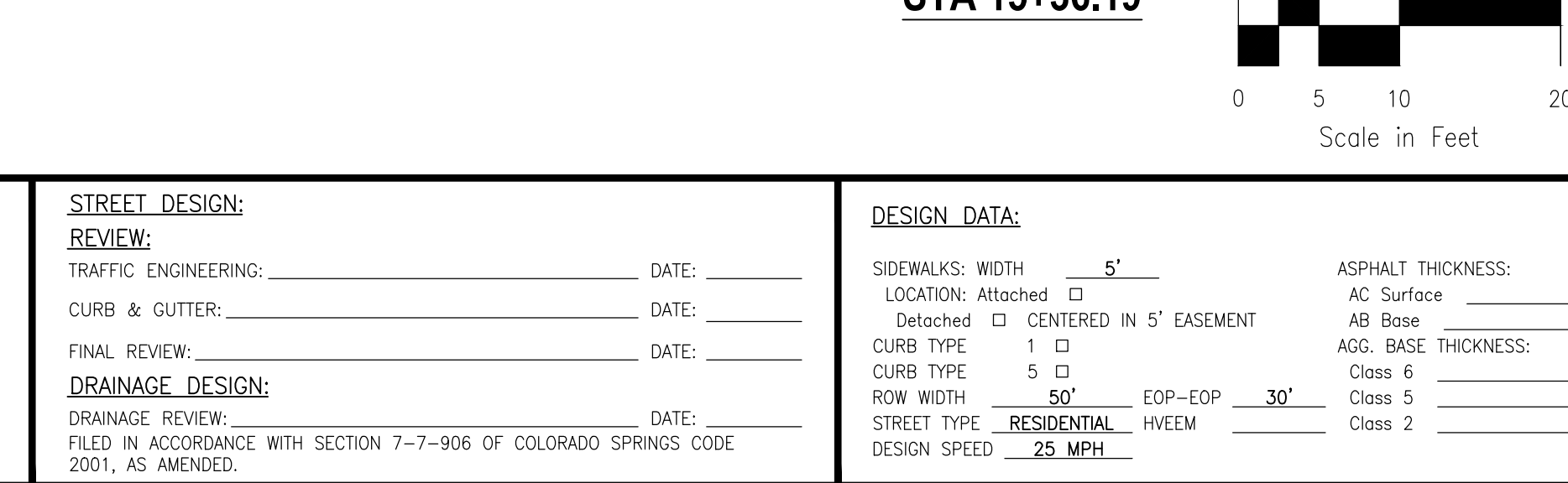
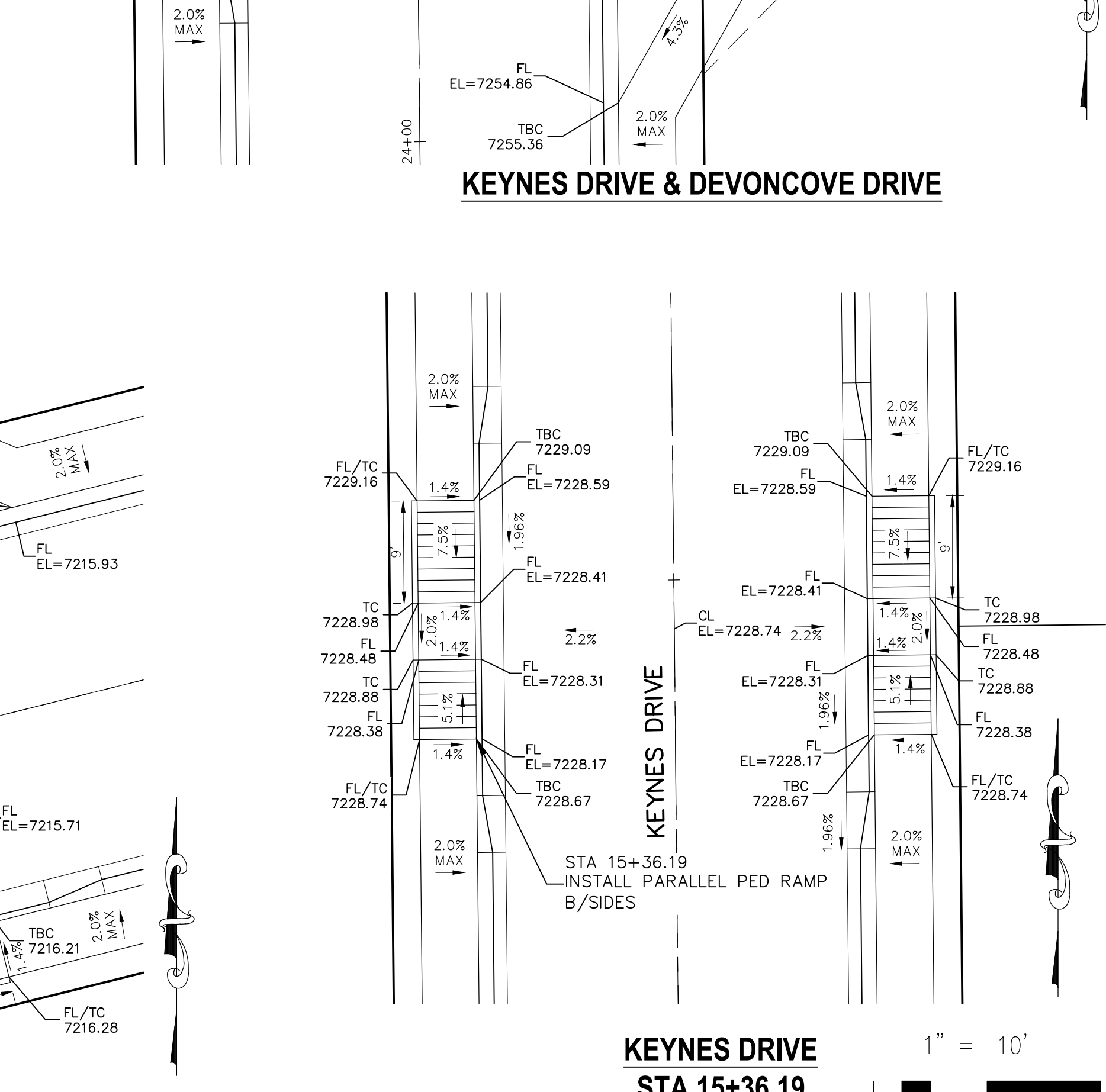
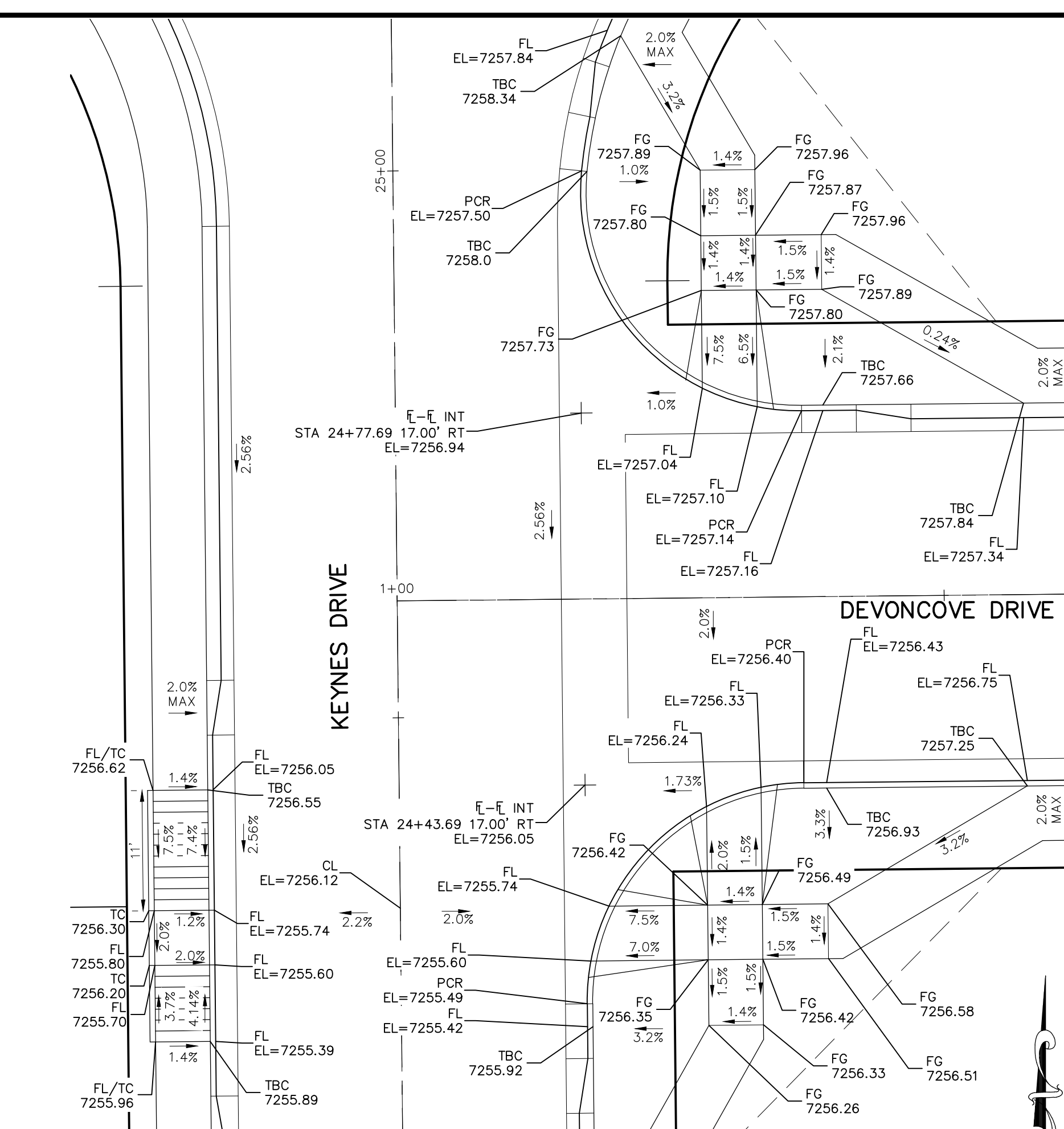
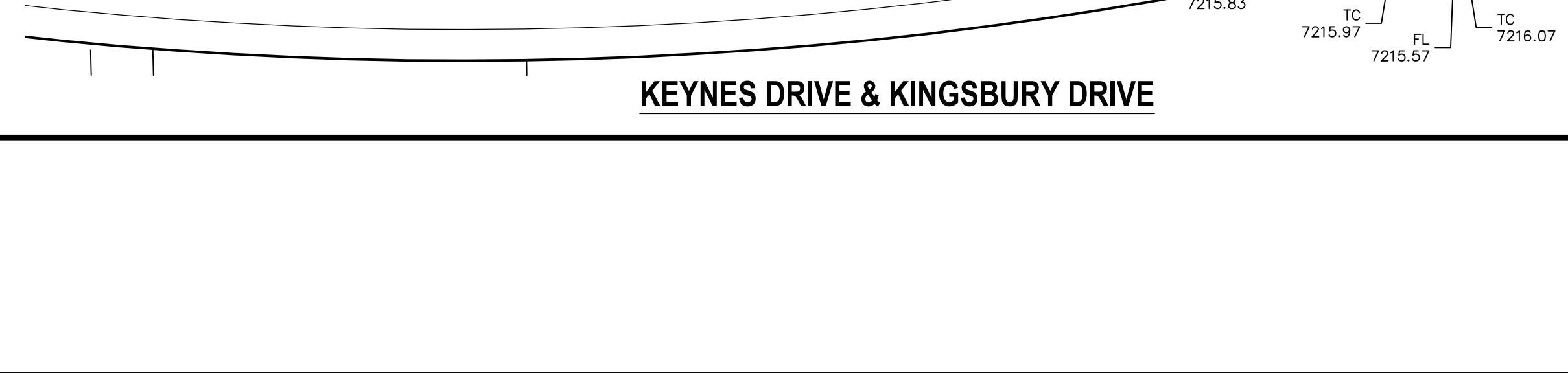
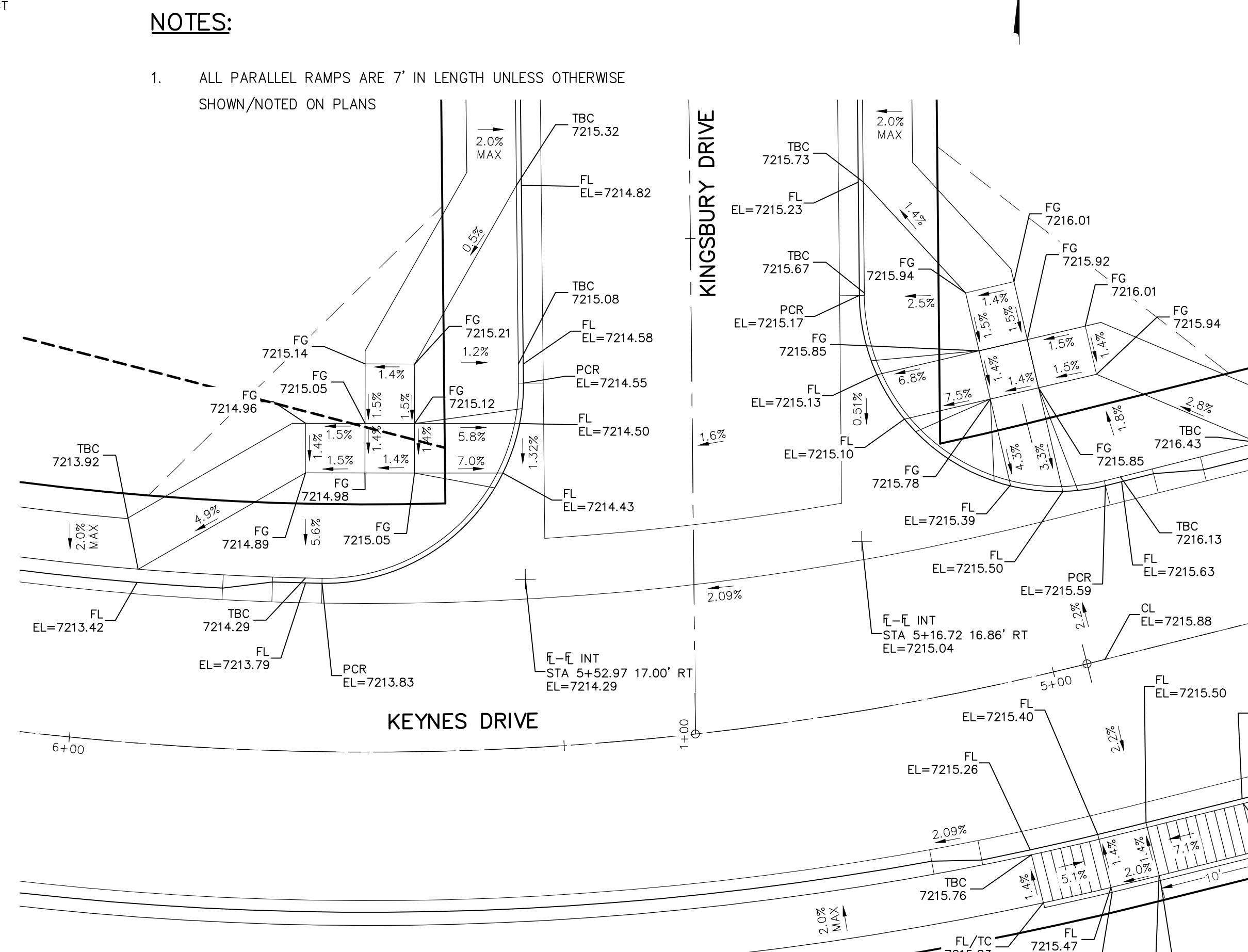
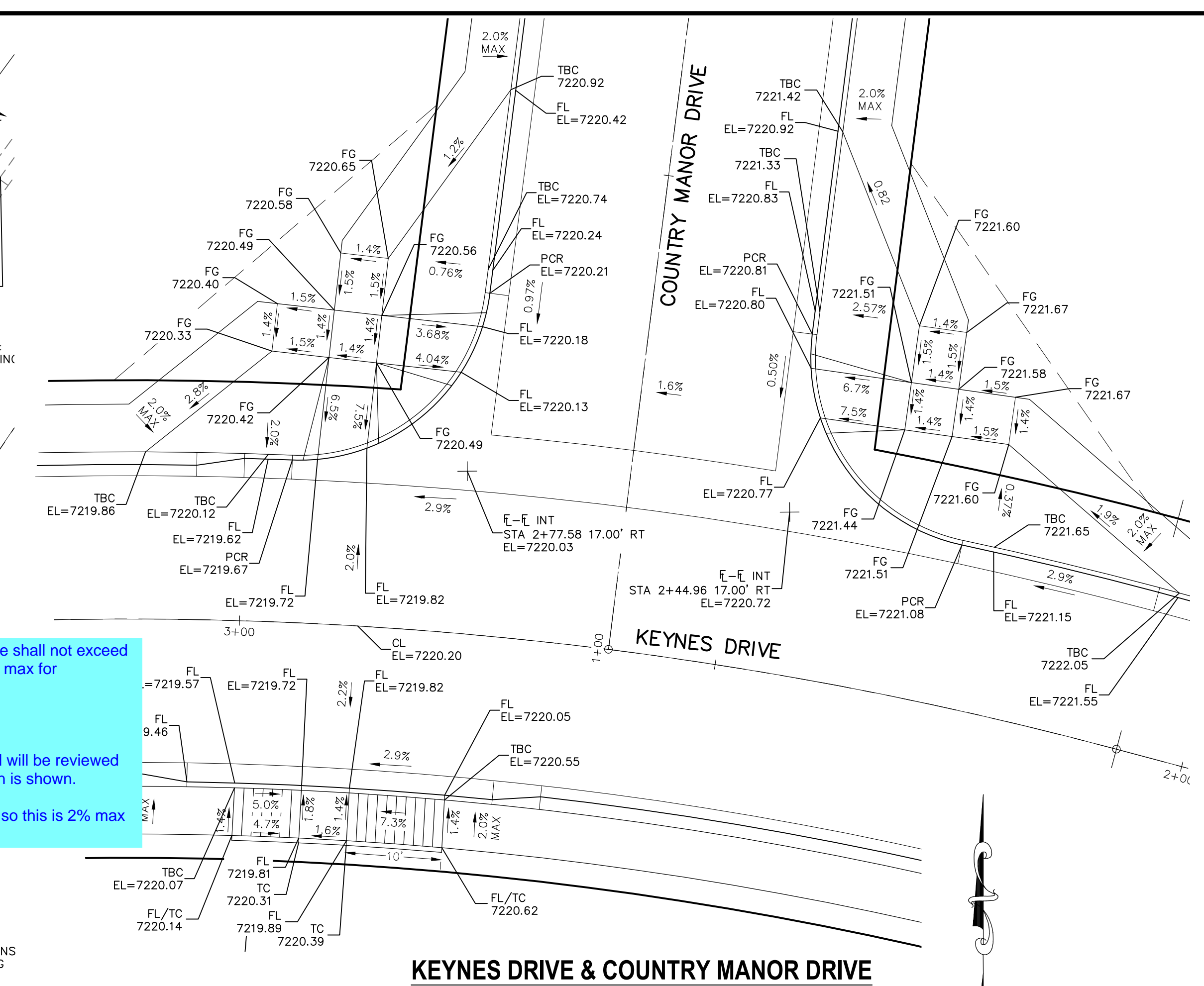
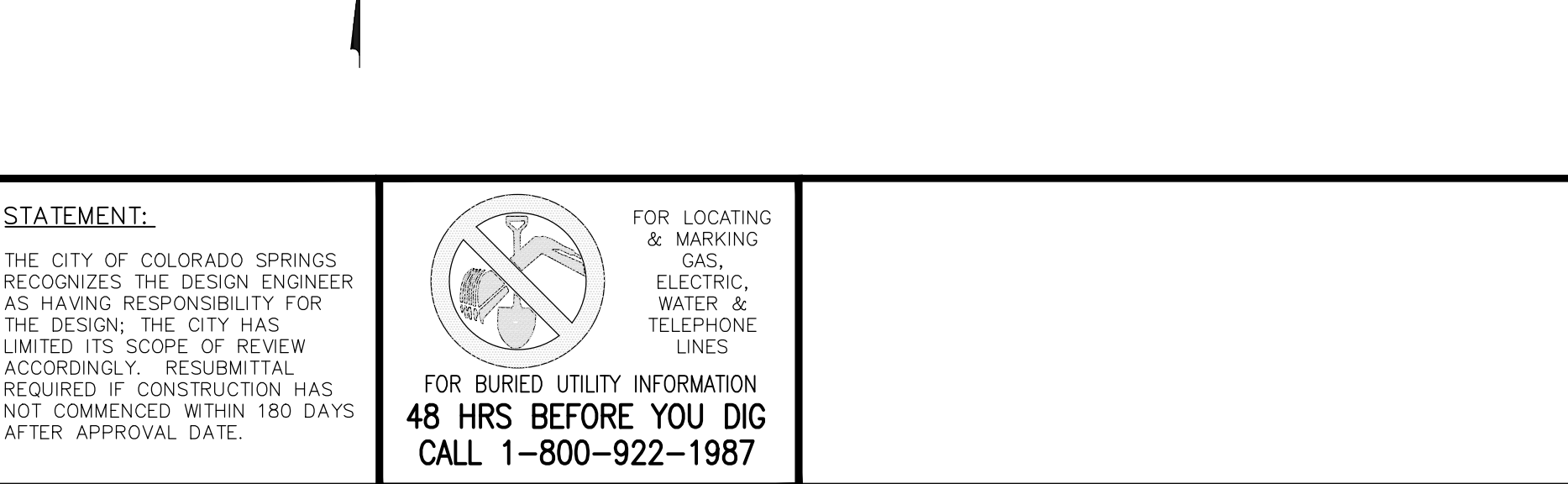
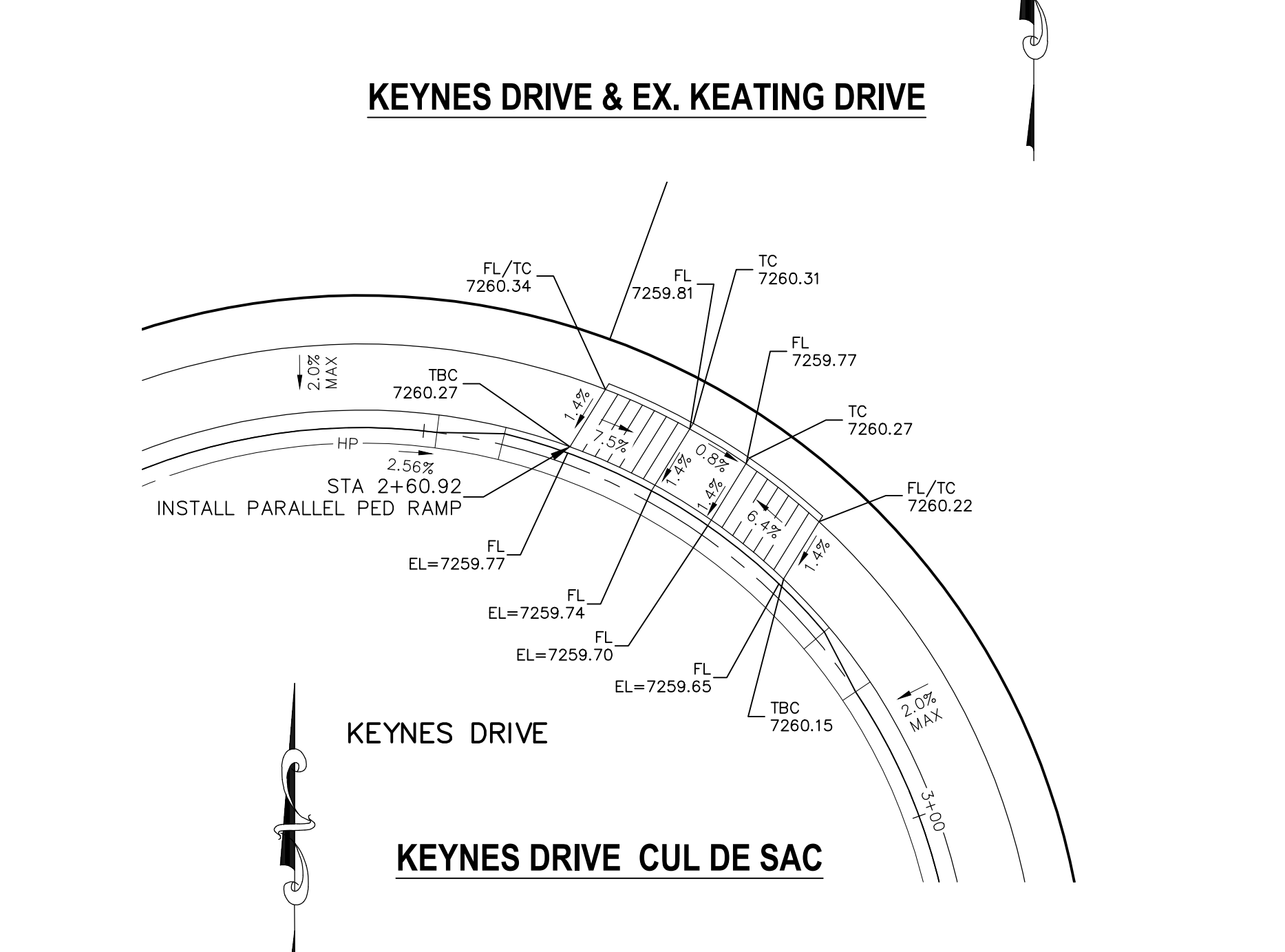
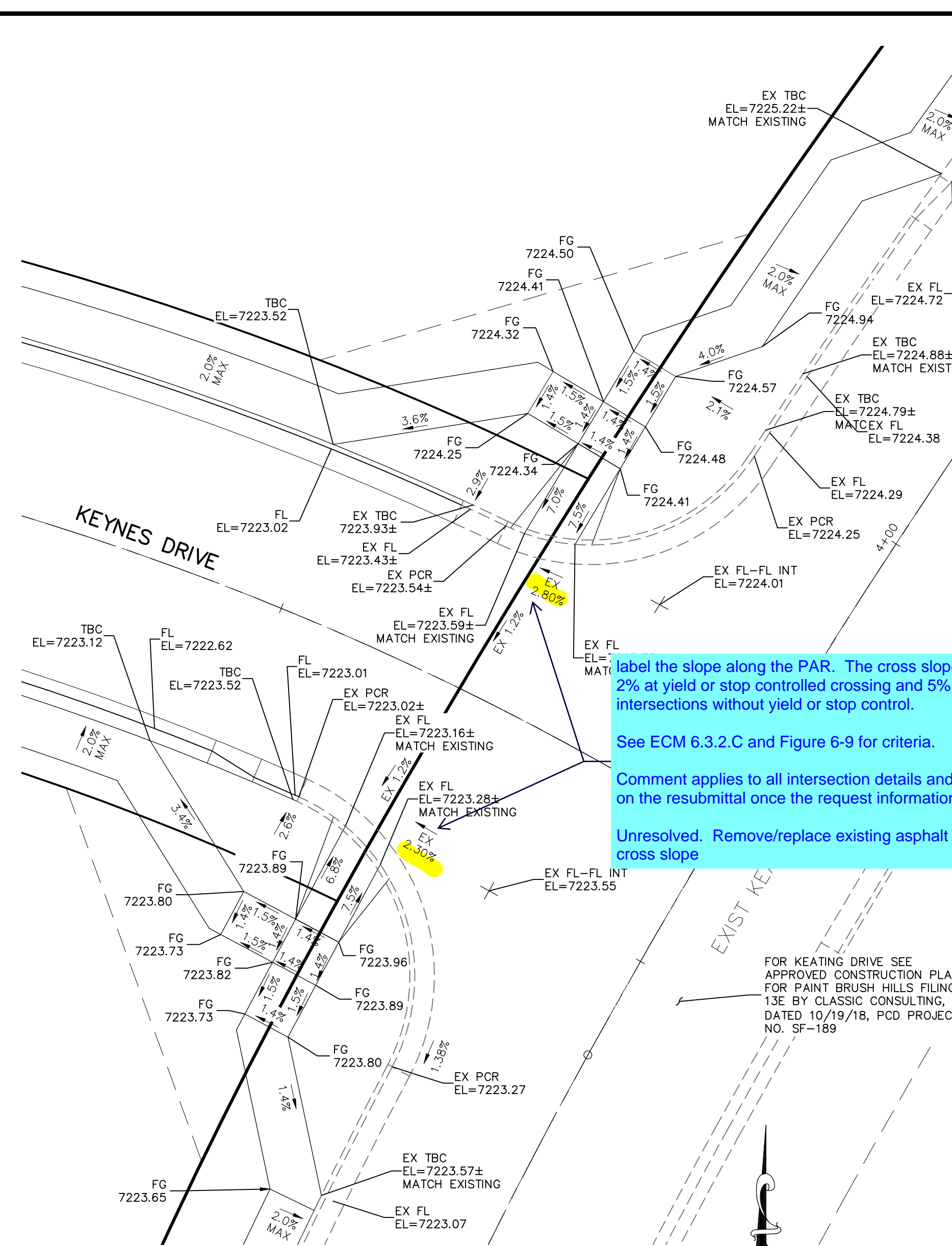
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
REGISTERED PROFESSIONAL ENGINEER
3-22-21

NO. DATE: BY: DESCRIPTION: REVISIONS:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

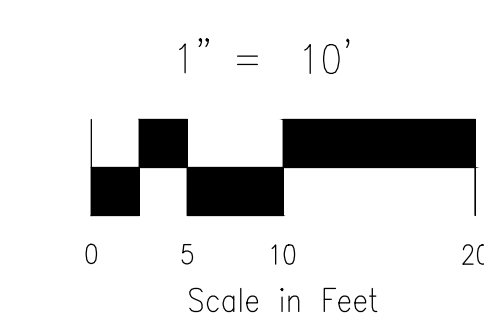
CAUTION

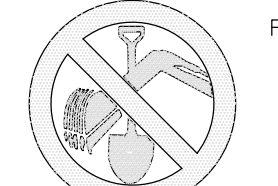
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Label the slope along the PAR. The cross slope shall not exceed 2% at yield or stop controlled crossing and 5% max for intersections without yield or stop control.
See ECM 6.3.2.C and Figure 6-9 for criteria.
Comment applies to all intersection details and will be reviewed on the resubmittal once the request information is shown.
Unresolved. Remove/replace existing asphalt so this is 2% max cross slope

NOTES:
1. ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS




<p>STATEMENT: THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.</p>	 <p>FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987</p>	<p>STREET DESIGN: TRAFFIC ENGINEERING: _____ DATE: _____ CURB & GUTTER: _____ DATE: _____ FINAL REVIEW: _____ DATE: _____</p> <p>DRAINAGE DESIGN: DRAINAGE REVIEW: _____ DATE: _____ FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.</p>	<p>DESIGN DATA: SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____ LOCATION: Attached <input type="checkbox"/> AC Surface _____ CURB TYPE 5 <input type="checkbox"/> Class 6 _____ ROW WIDTH 50' EOP-EOP 30' Class 5 _____ STREET TYPE RESIDENTIAL HVEEM Class 2 _____ DESIGN SPEED 25 MPH</p>
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PAINT BRUSH HILLS FILING NO. 14

INTERSECTION DETAILS


PROJECT NO. 10-014 DATE: 03/19/2021
DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DRAWN BY: JWP SHEET 14 OF 30
CHECKED BY: GW

212 N. WABASH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485



M&S CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.



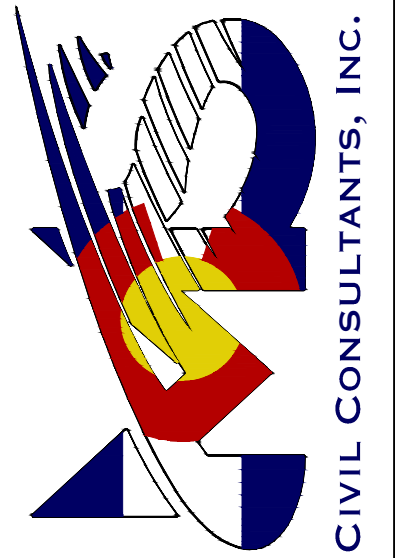
APPROVED BY: _____ DATE: _____

REVISIONS:

NO.	DATE	DESCRIPTION

THE DESIGNER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

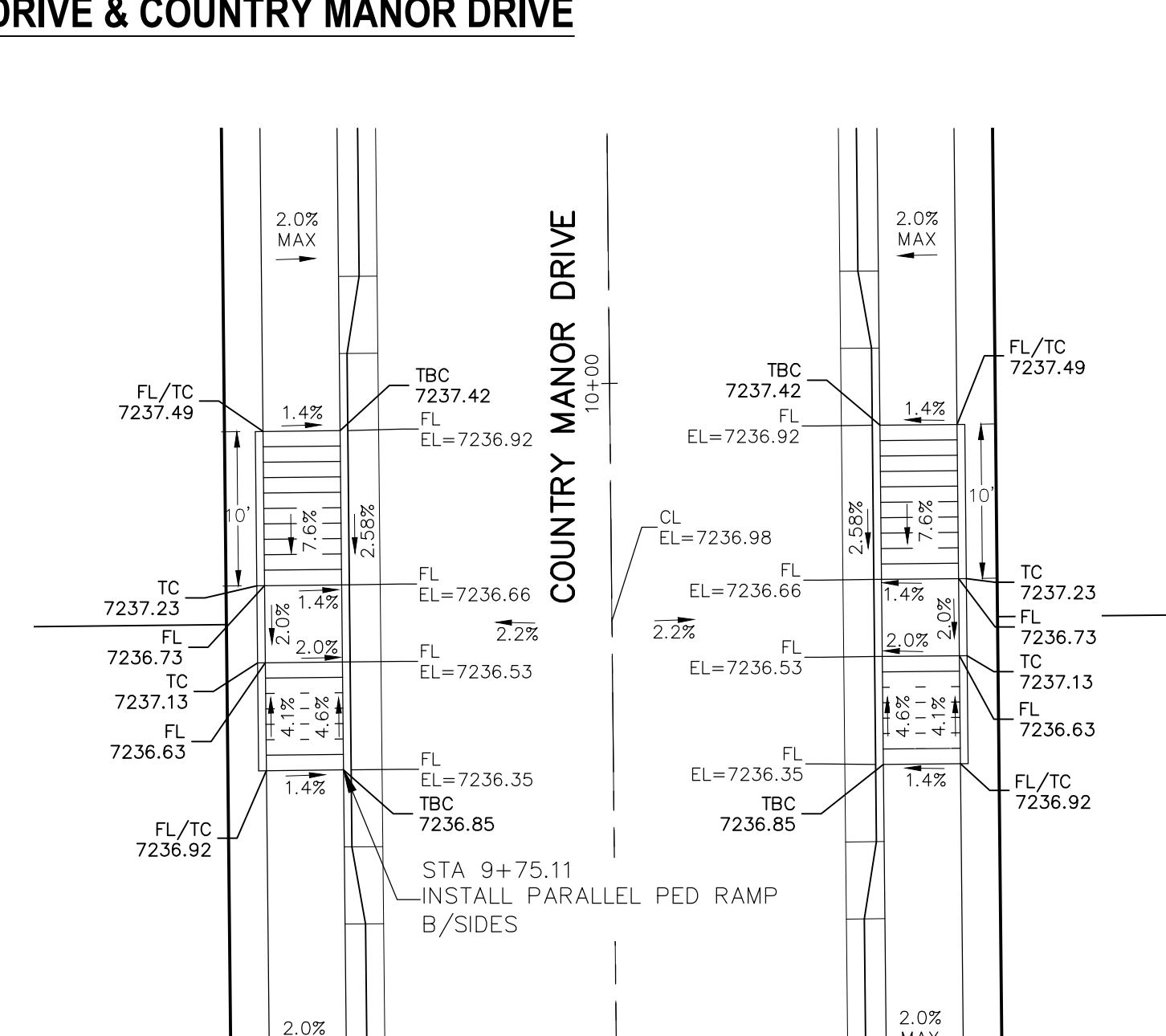
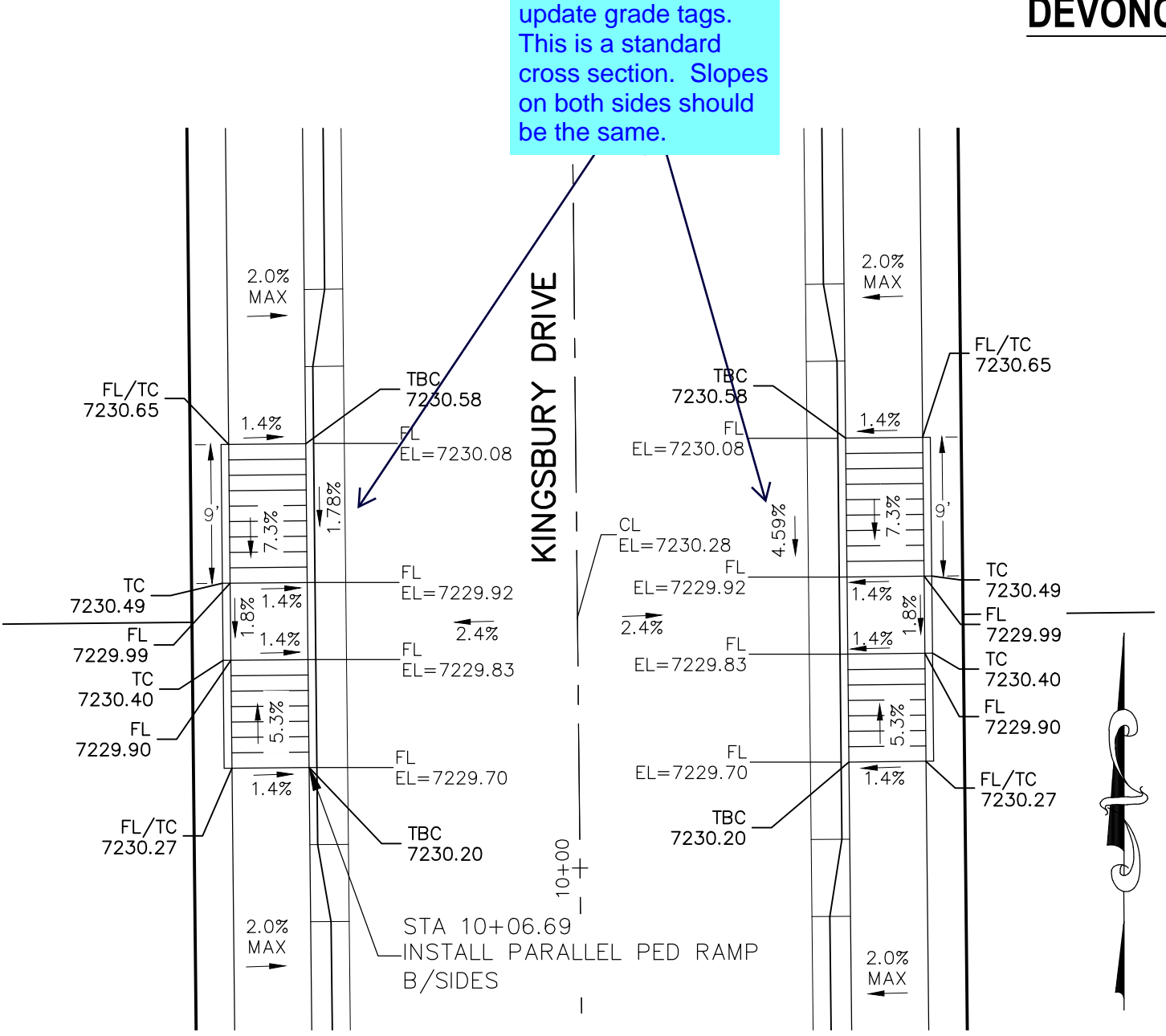
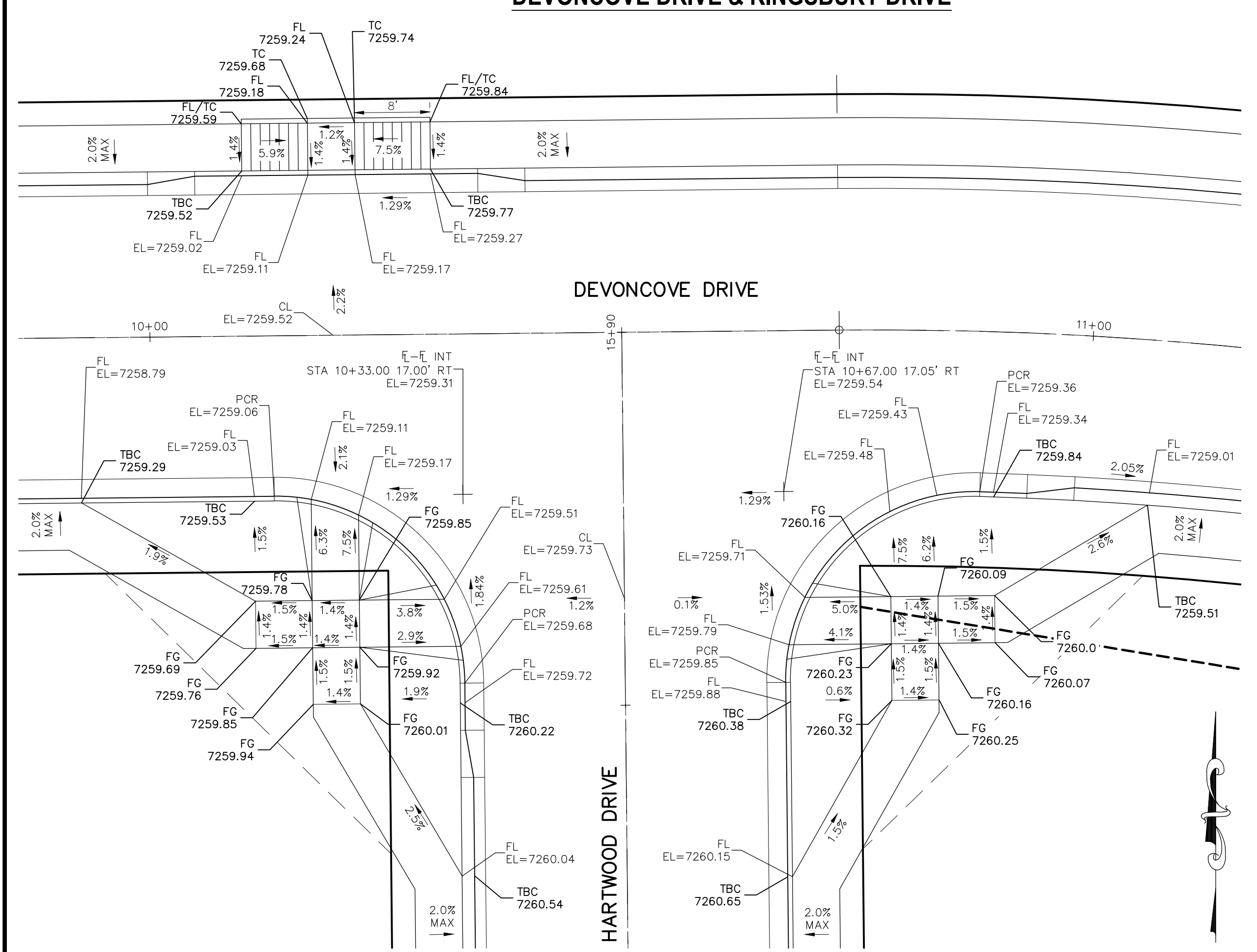
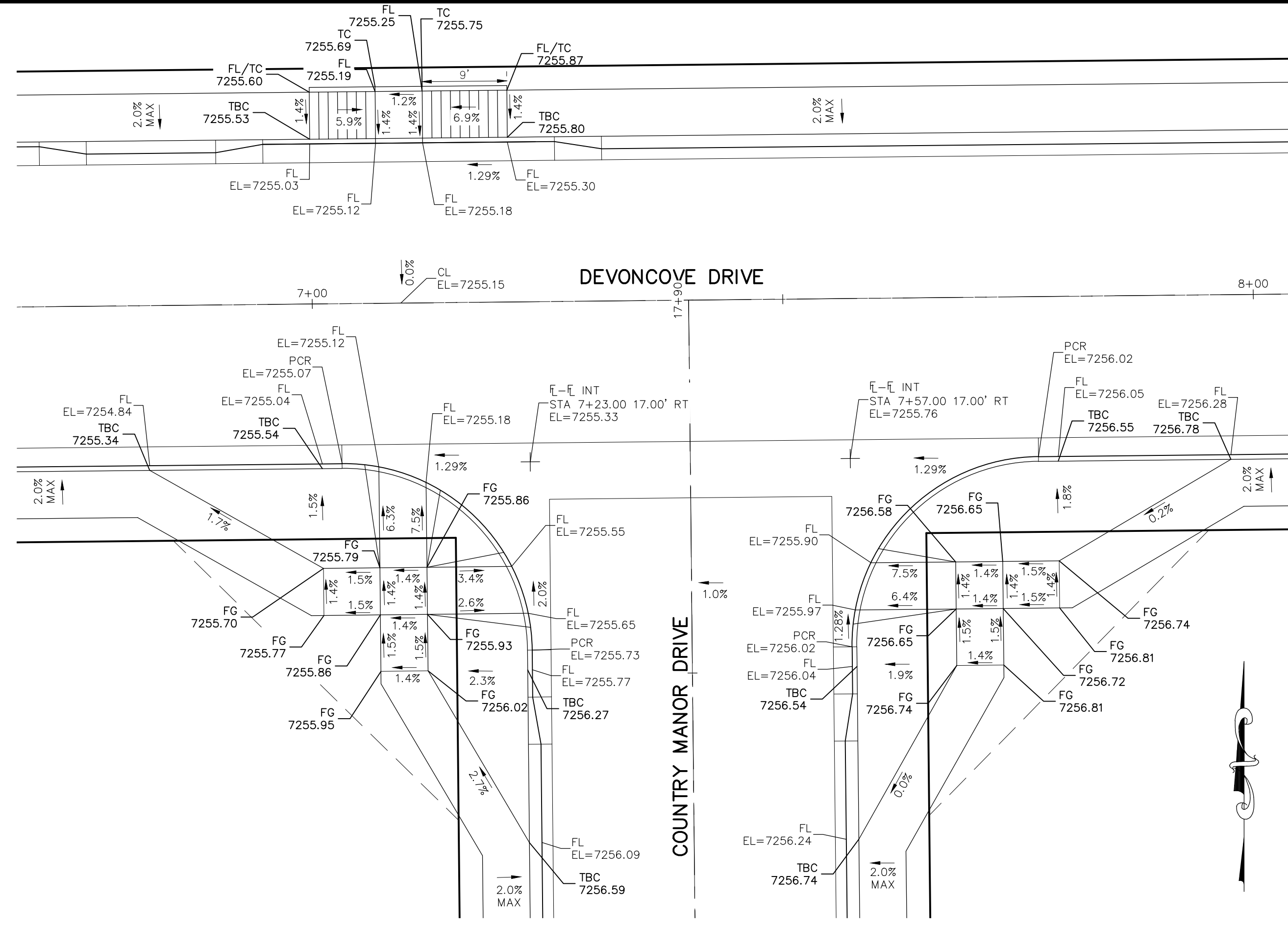
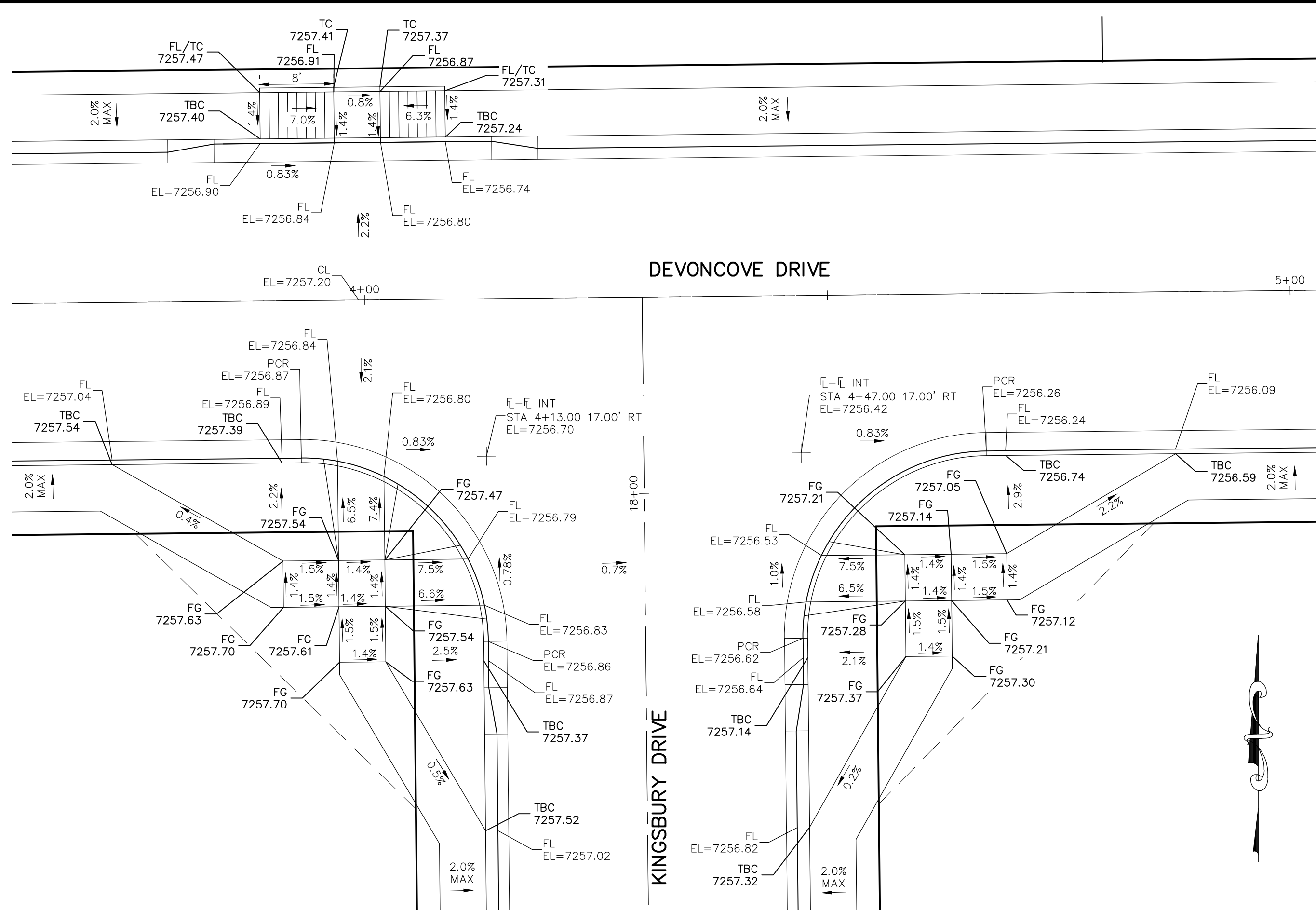
CAUTION



NO.	DATE:	BY:	DESCRIPTION:

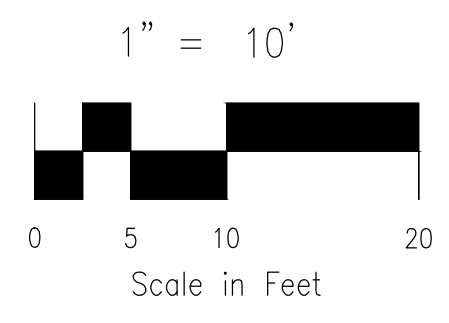
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



update grade tags.
 This is a standard cross section.
 Slopes on both sides should be the same.

- NOTES:**
- ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS



STATEMENT:
 THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

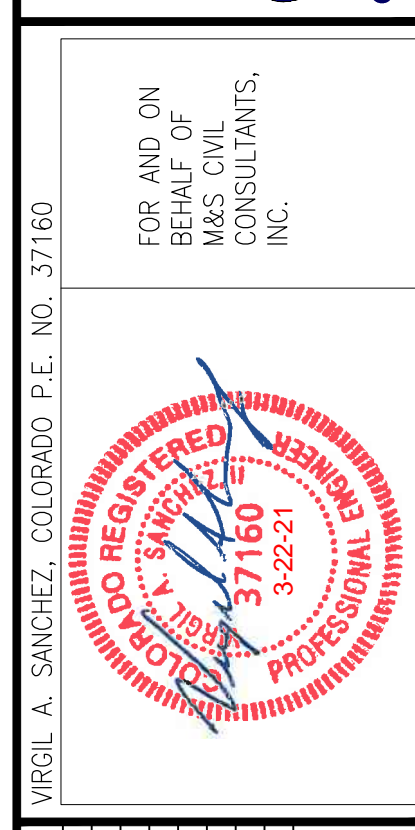
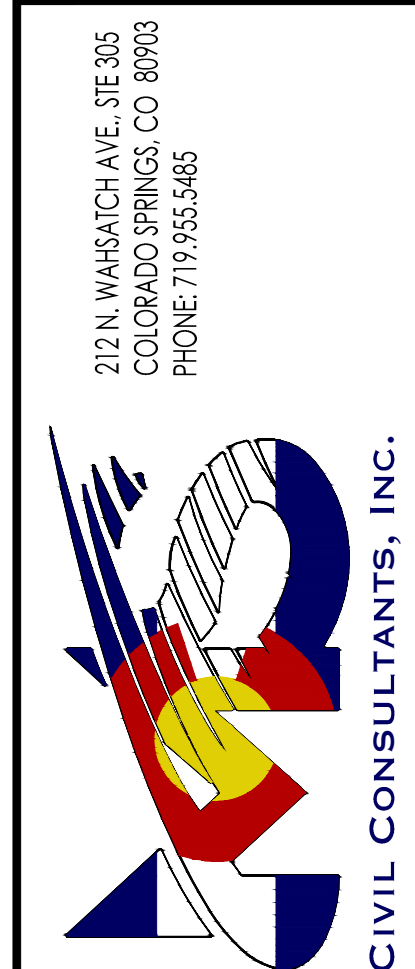
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

STREET DESIGN:
 REVIEW: _____ DATE: _____
 TRAFFIC ENGINEERING: _____ DATE: _____
 CURB & GUTTER: _____ DATE: _____
 FINAL REVIEW: _____ DATE: _____

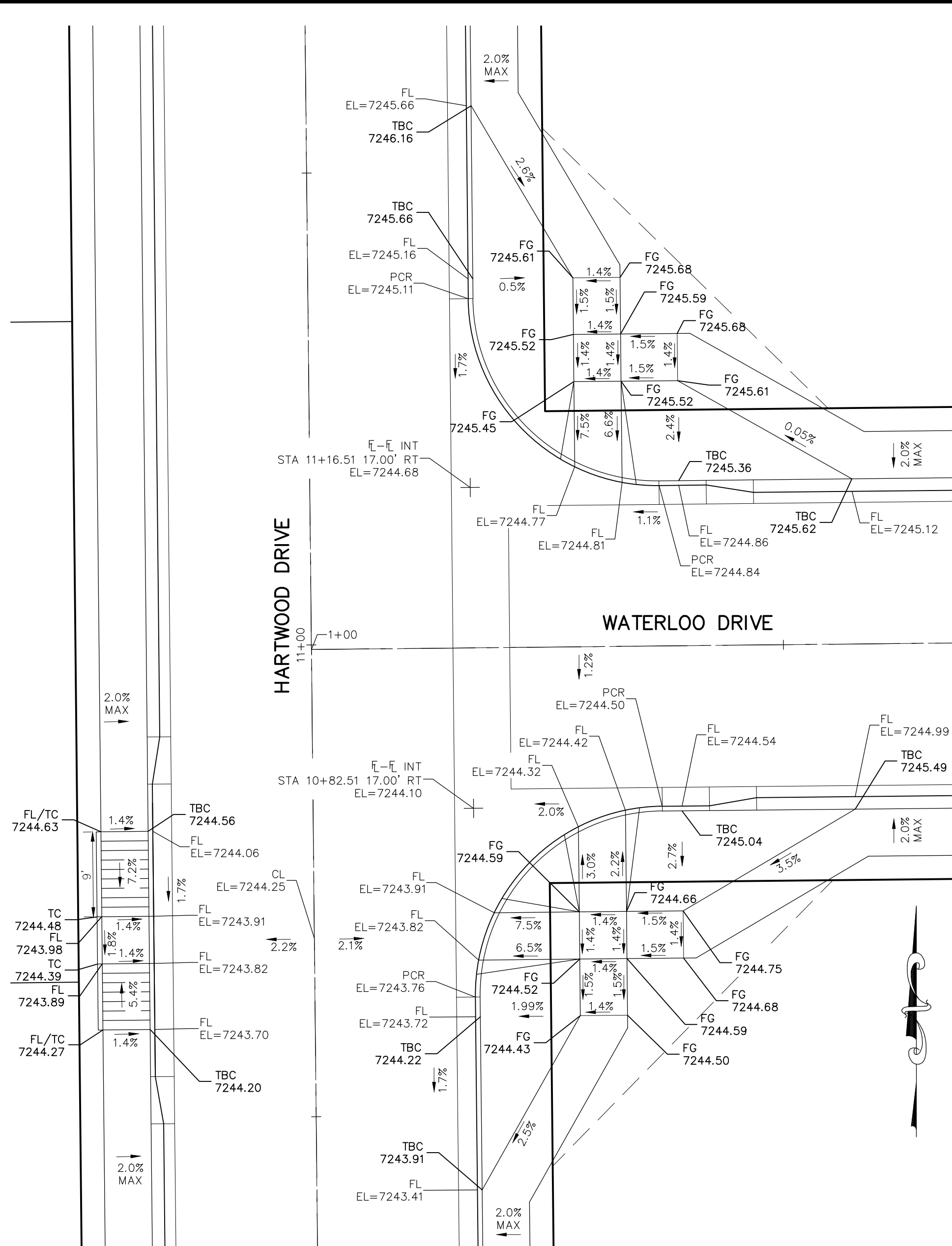
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DESIGN DATA:

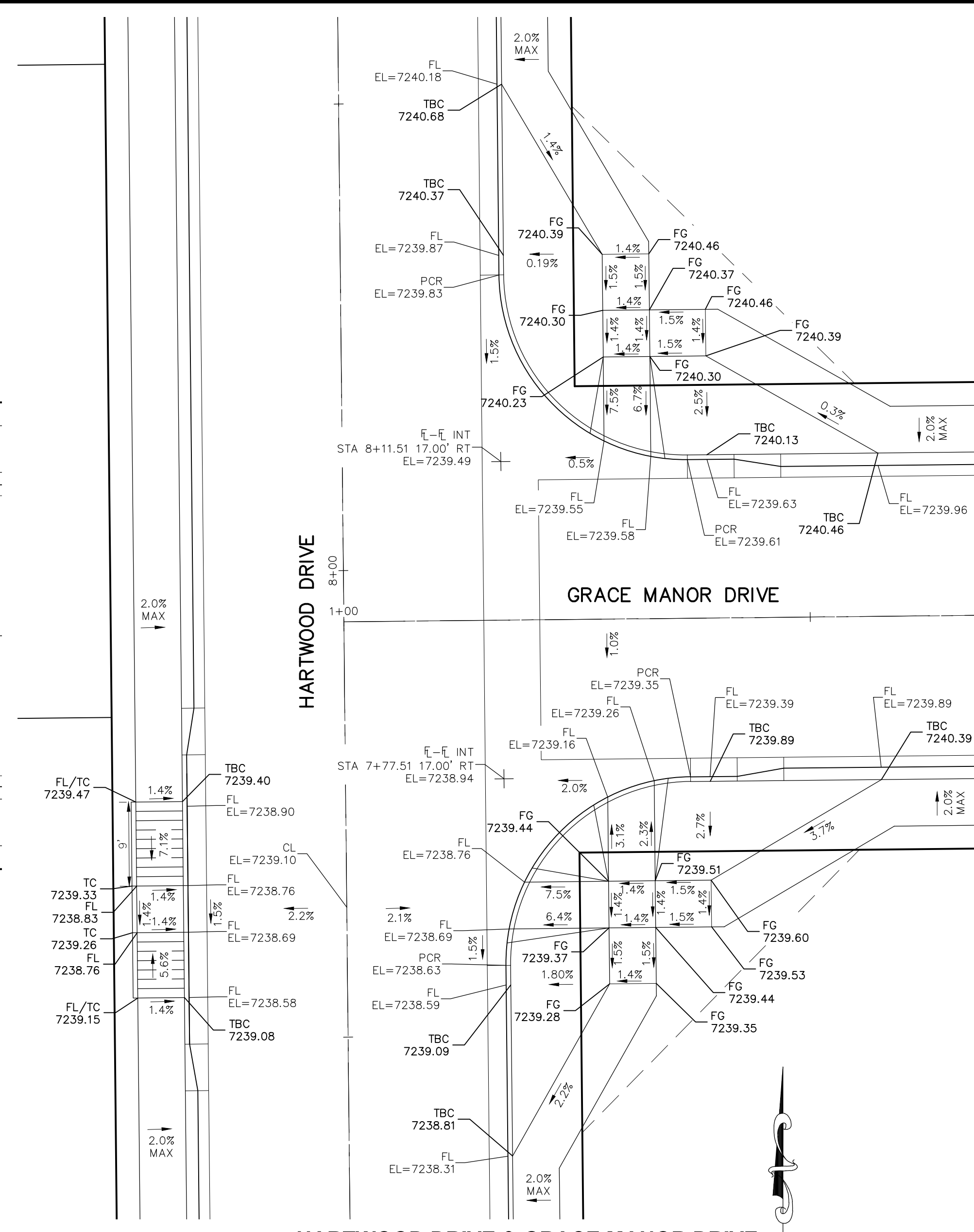
SIDEWALKS: WIDTH <u>5'</u>	ASPHALT THICKNESS:
LOCATION: Attached <input type="checkbox"/>	AC Surface _____
Detached <input type="checkbox"/> CENTERED IN 5' EASEMENT	AB Base _____
CURB TYPE <input type="checkbox"/>	AGG. BASE THICKNESS:
CURB TYPE <input type="checkbox"/>	Class 6 _____
ROW WIDTH <u>50'</u> EOP-EOP <u>30'</u>	Class 5 _____
STREET TYPE <u>RESIDENTIAL</u> HVECM _____	Class 2 _____
DESIGN SPEED <u>25</u> MPH	



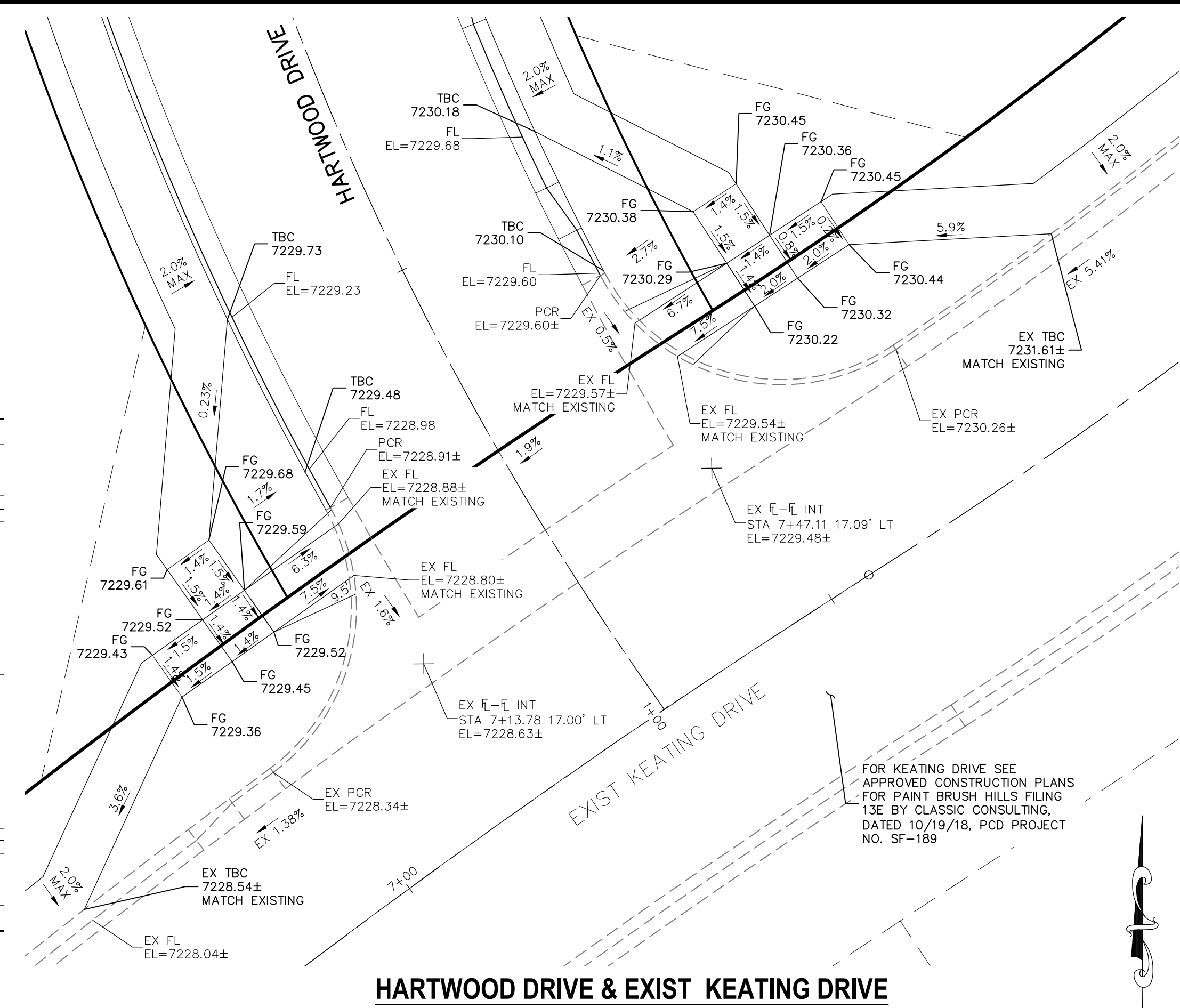
REVISIONS:	NO.	DATE:	DESCRIPTION:



HARTWOOD DRIVE & WATERLOO DRIVE



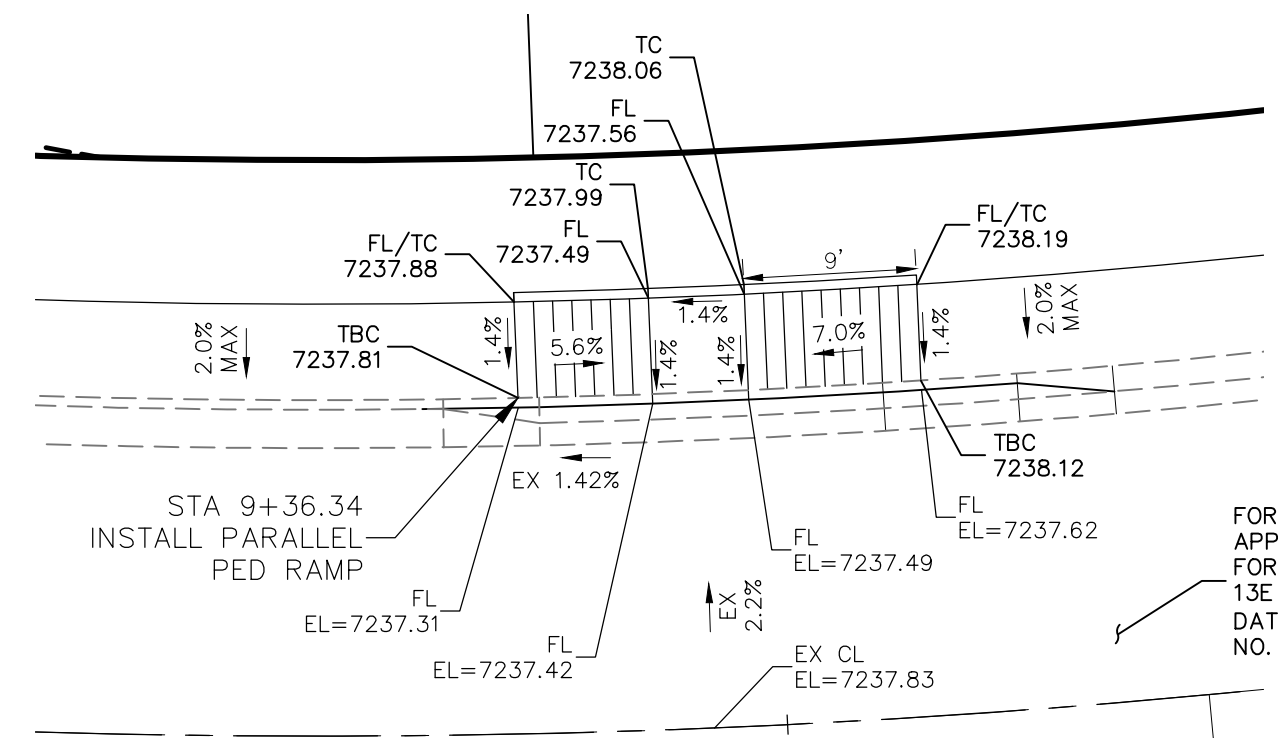
HARTWOOD DRIVE & GRACE MANOR DRIVE



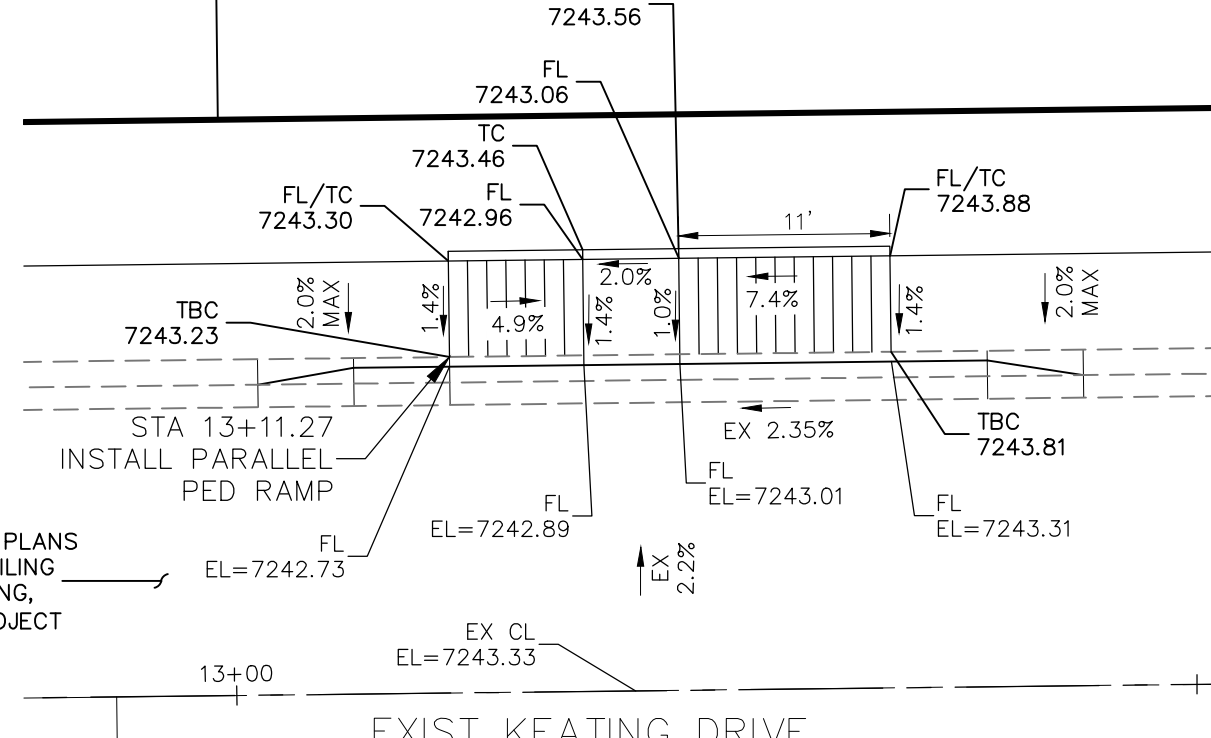
HARTWOOD DRIVE & EXIST KEATING DRIVE

NOTES:

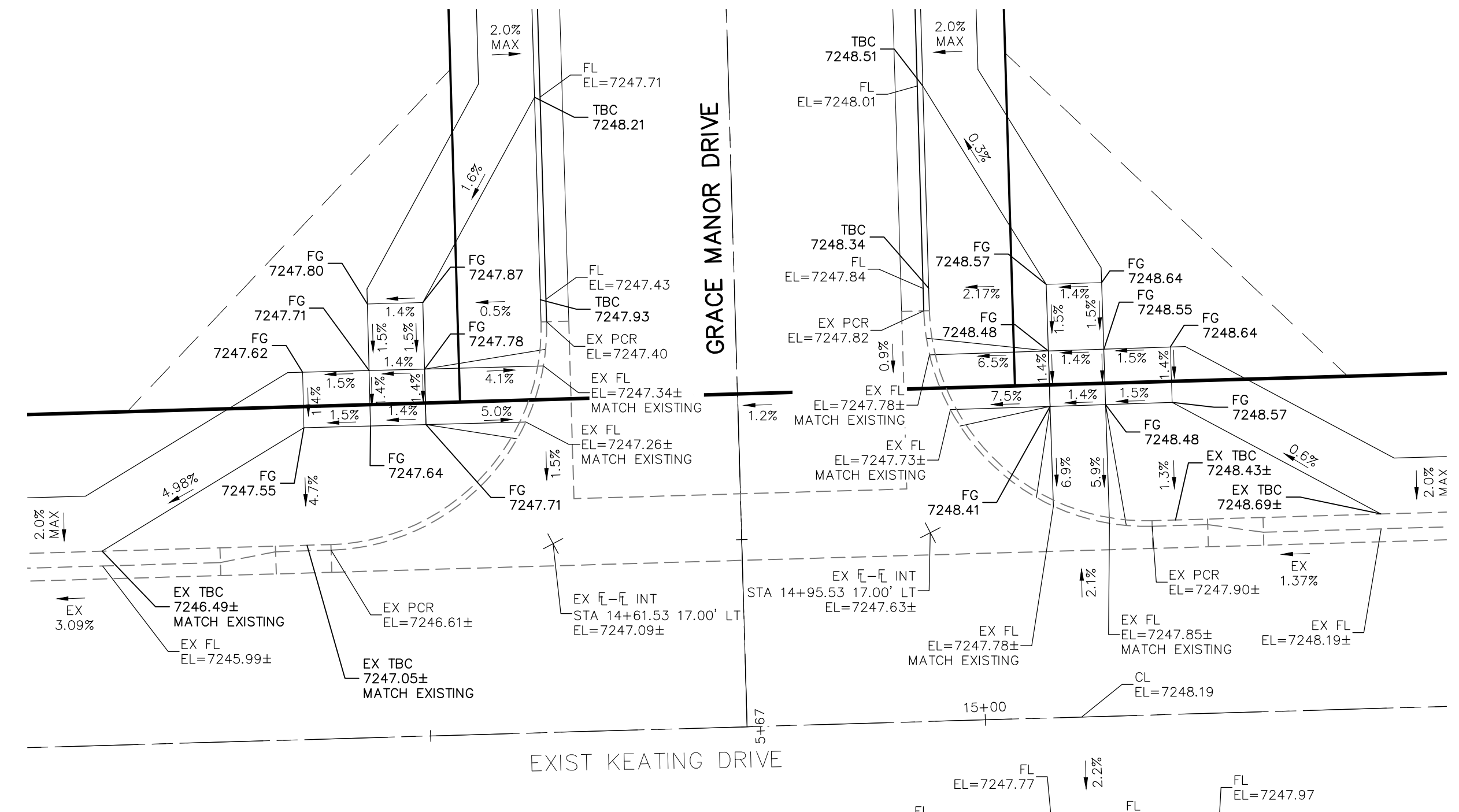
- ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS



**EXISTING KEATING DRIVE
 STA 9+36.34**



**EXISTING KEATING DRIVE
 STA 13+11.27**

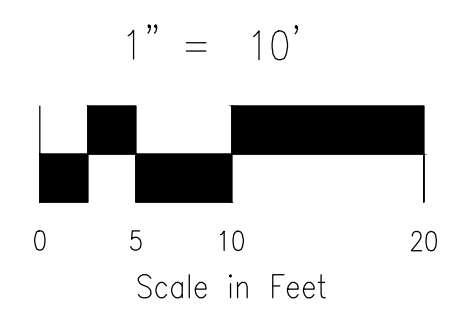
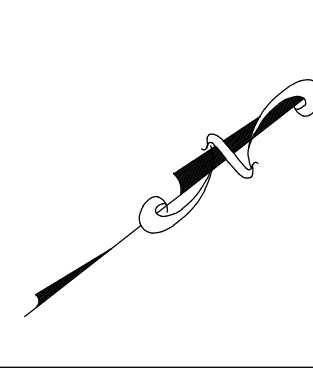


GRACE MANOR DRIVE & EXIST KEATING DRIVE

STATEMENT:
 THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987



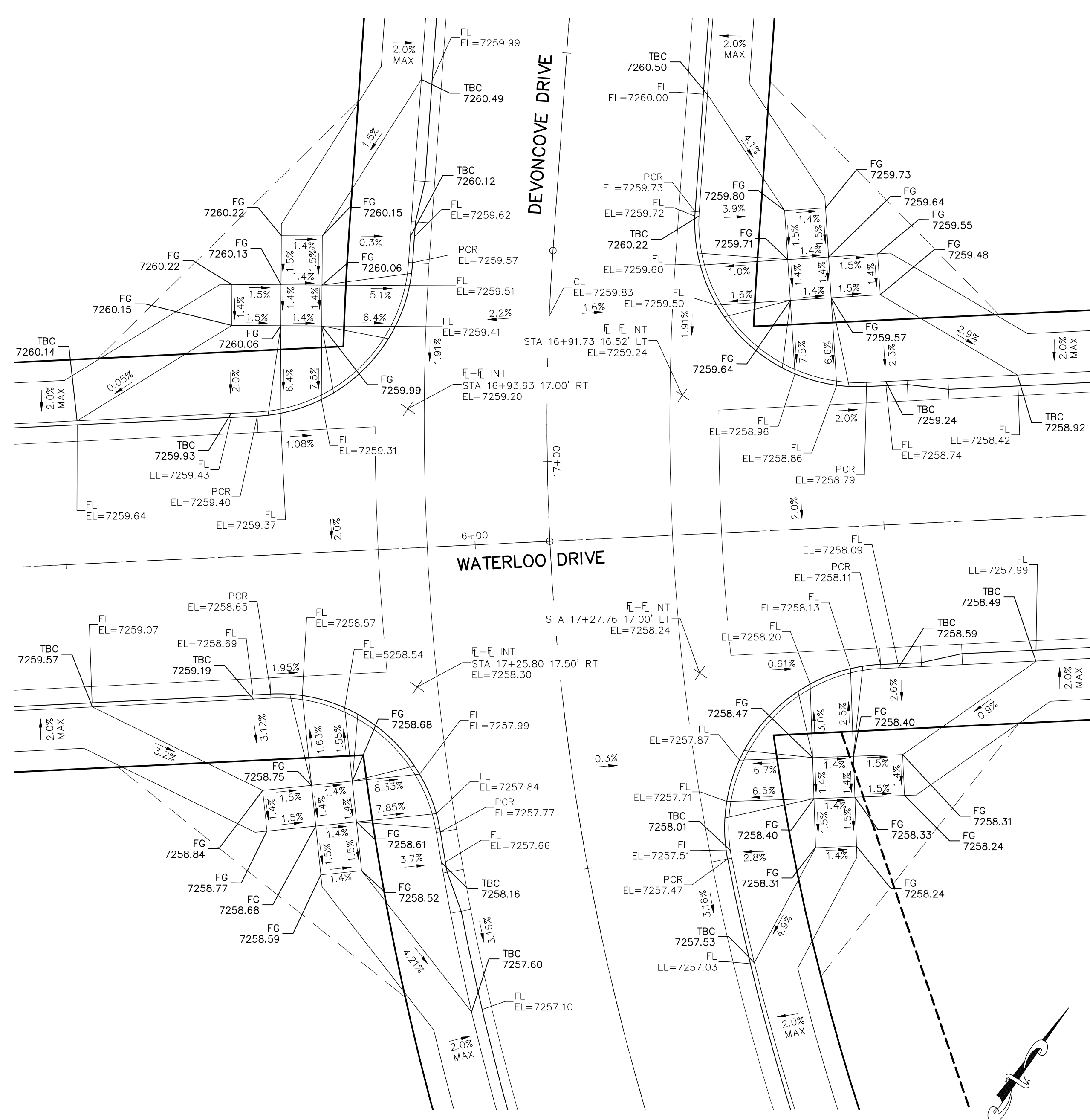
STREET DESIGN:	
TRAFFIC ENGINEERING:	DATE:
CURB & GUTTER:	DATE:
FINAL REVIEW:	DATE:
DRAINAGE DESIGN:	DATE:
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.	

DESIGN DATA:	
SIDEWALKS: WIDTH 5'	ASPHALT THICKNESS:
LOCATION: Attached <input type="checkbox"/> Detached <input type="checkbox"/>	AC Surface <input type="checkbox"/> AB Base <input type="checkbox"/>
CURB TYPE 1 <input type="checkbox"/> 5 <input type="checkbox"/>	AGG. BASE THICKNESS:
ROW WIDTH 50' EOP-EOP 30'	Class 6 <input type="checkbox"/> Class 5 <input type="checkbox"/>
STREET TYPE RESIDENTIAL HVEEM	Class 2 <input type="checkbox"/>
DESIGN SPEED 25 MPH	

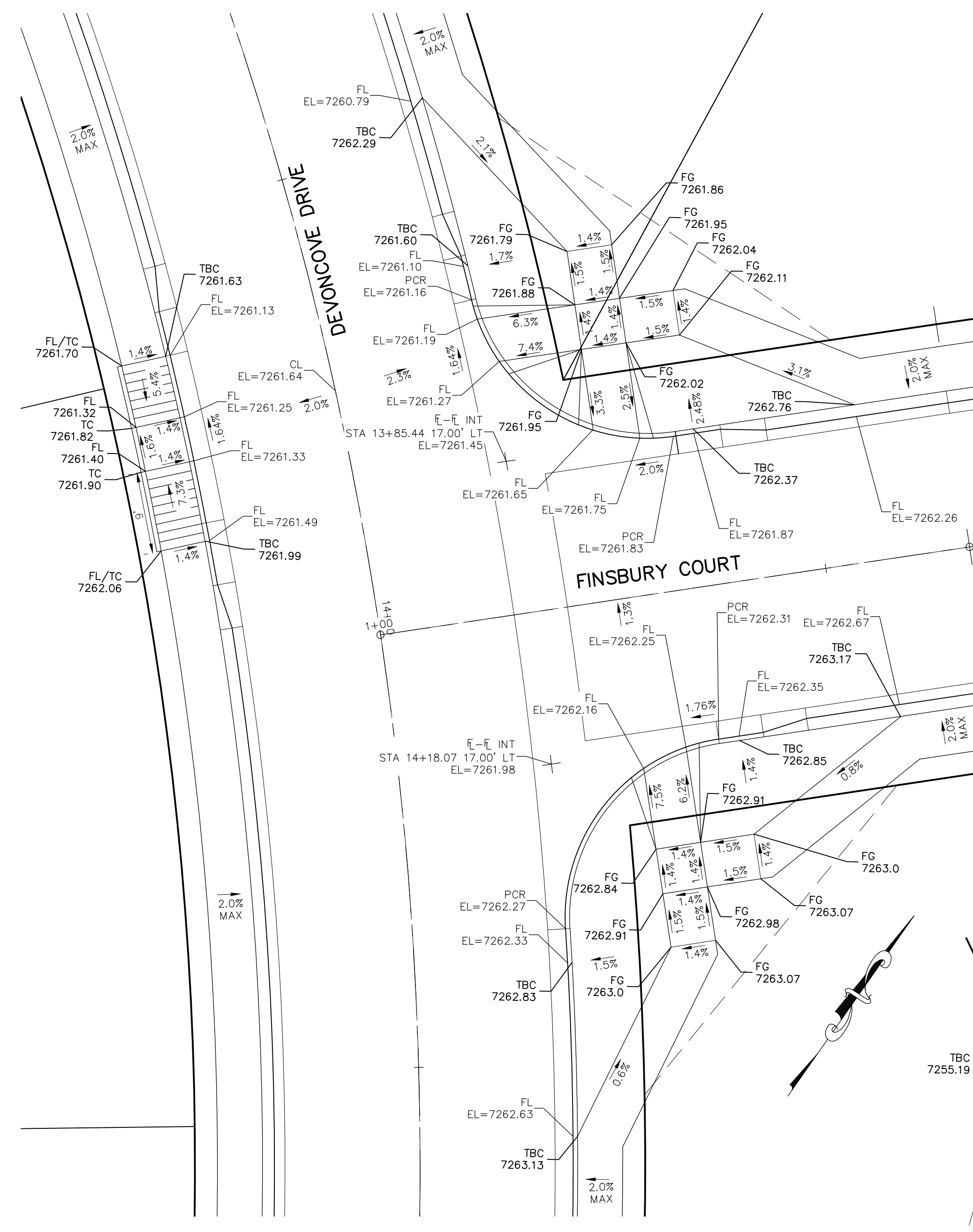
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

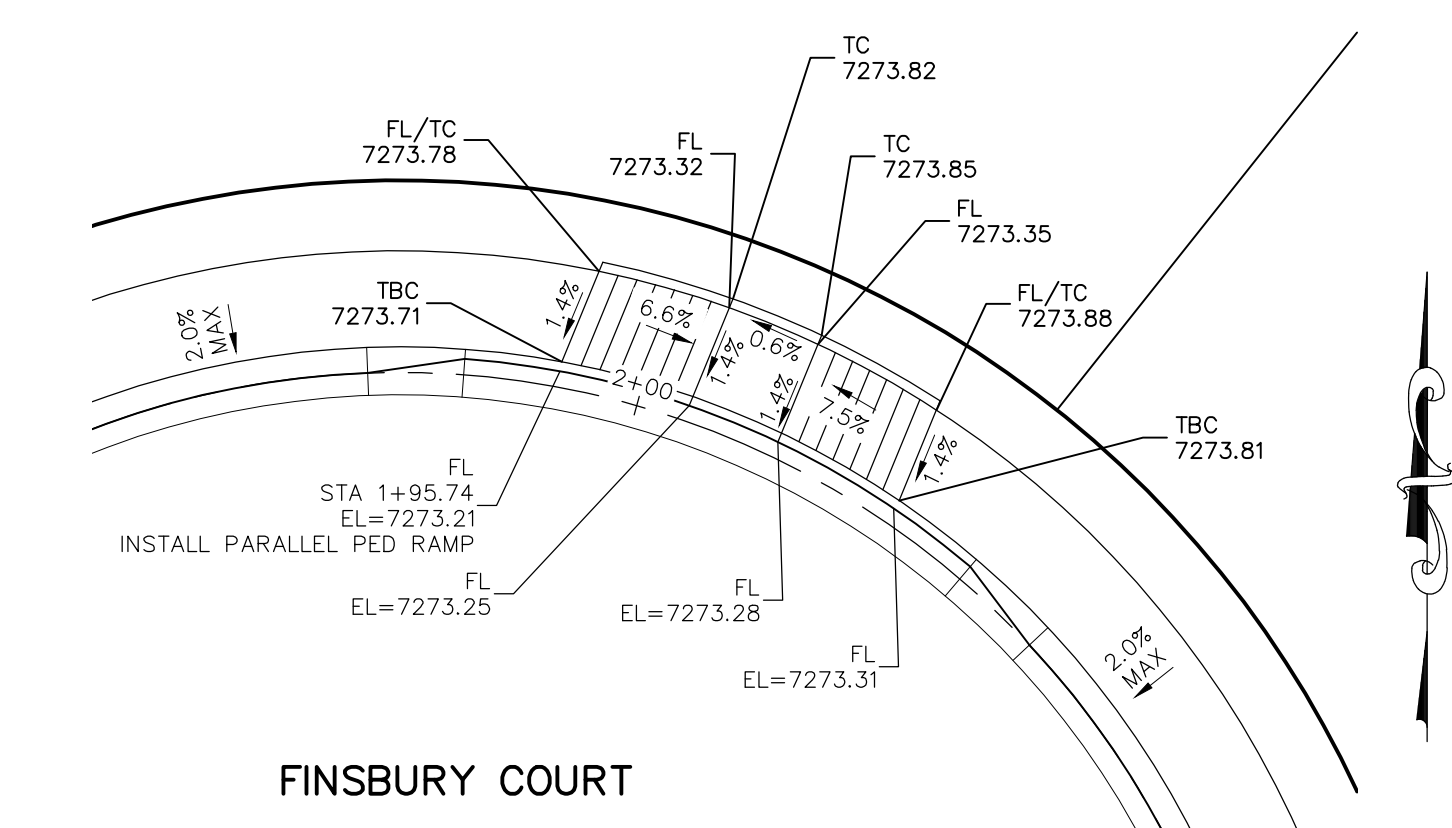
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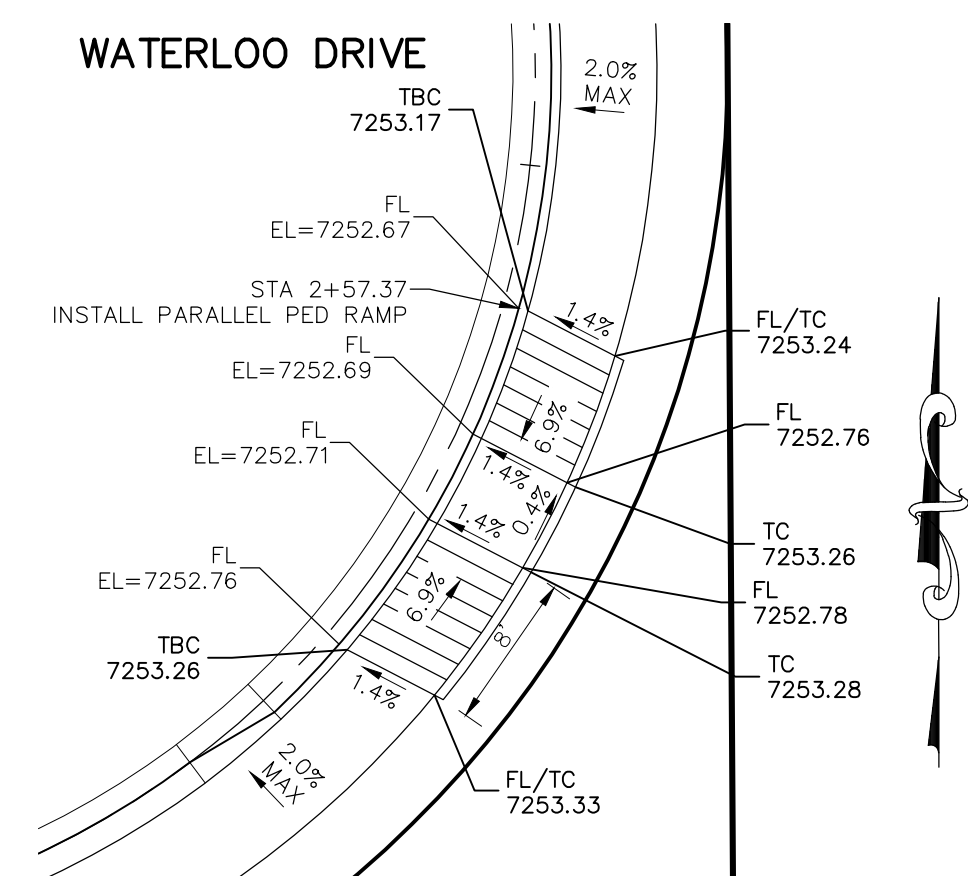
DEVONCOVE DRIVE & WATERLOO DRIVE



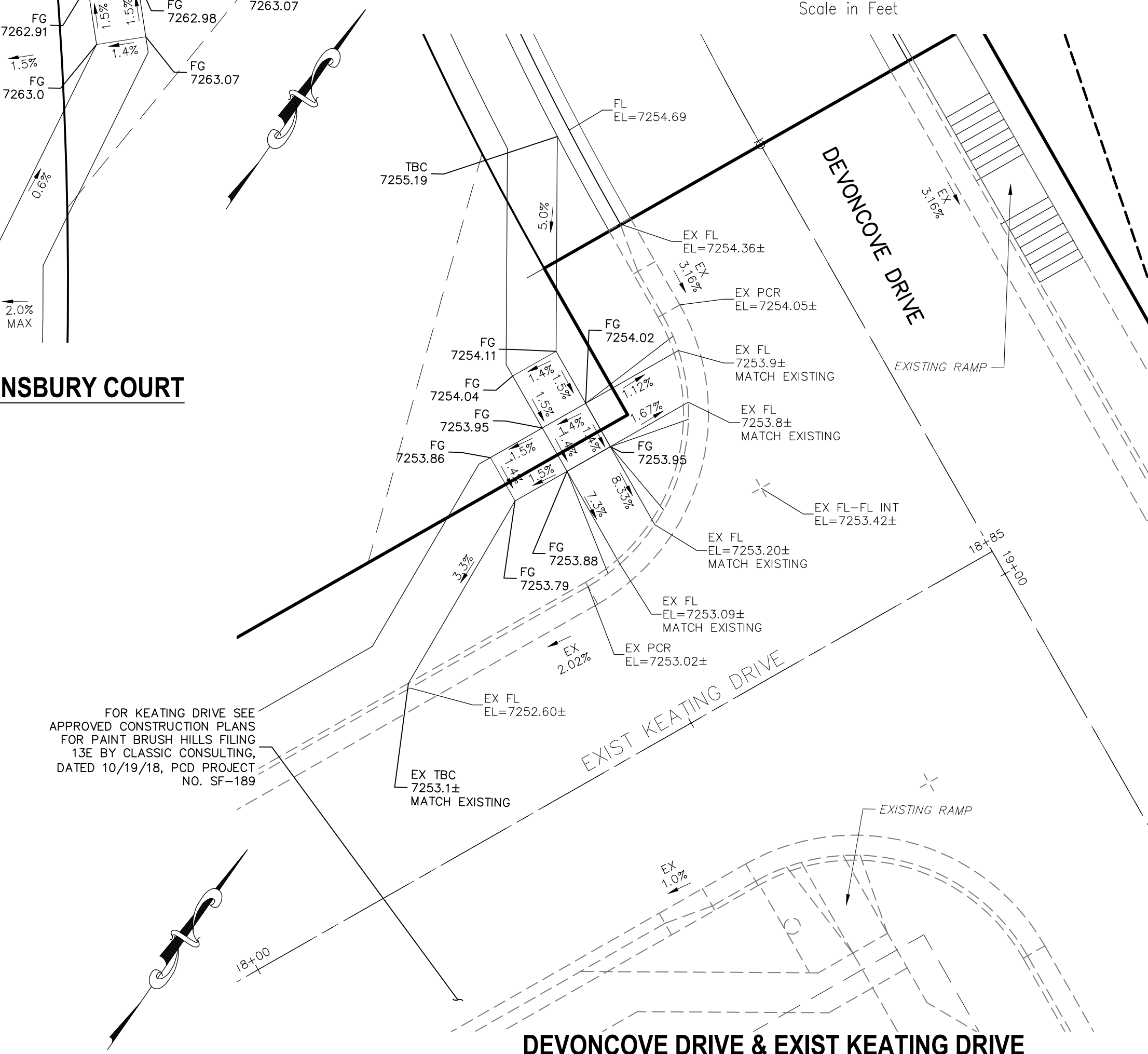
DEVONCOVE DRIVE & FINSBURY COURT



**FINSBURY COURT CDS
STA 1+95.74**

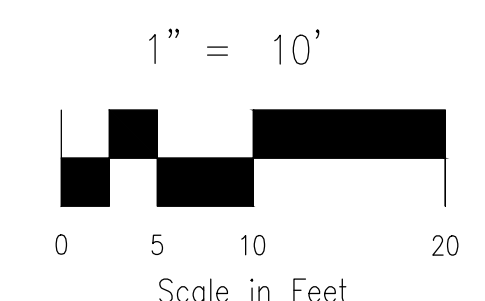


**WATERLOO DRIVE CDS
STA 2+57.37**



DEVONCOVE DRIVE & EXIST KEATING DRIVE

NOTES:
1. ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS



STATEMENT:
THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN; THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER APPROVAL DATE.

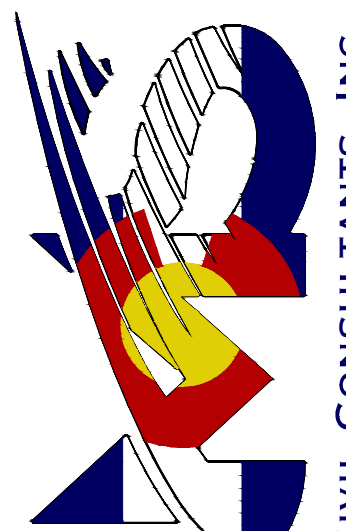

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
**FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987**

STREET DESIGN:
TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____
DRAINAGE DESIGN:
DRAINAGE REVIEW: _____ DATE: _____
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA:
SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: _____
LOCATION: Attached AC Surface _____
Detached CENTERED IN 5' EASEMENT AB Base _____
CURB TYPE 1 AGG. BASE THICKNESS: _____
CURB TYPE 5 Class 6 _____
ROW WIDTH 50' EOP-EOP 30' Class 5 _____
STREET TYPE RESIDENTIAL HVEEM Class 2 _____
DESIGN SPEED 25 MPH


PAINT BRUSH HILLS FILING NO. 14
INTERSECTION DETAILS
PROJECT NO. 10-014 DATE: 03/19/2021
DESIGNED BY: JWP HORIZONTAL: 1"=50'
DRAWN BY: JWP VERTICAL: 1"=5'
CHECKED BY: GW SHEET 17 OF 30 S117

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485



CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.



MIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

NO.	REVISIONS:	DATE:	DESCRIPTION:	APPROVED BY:	DATE:

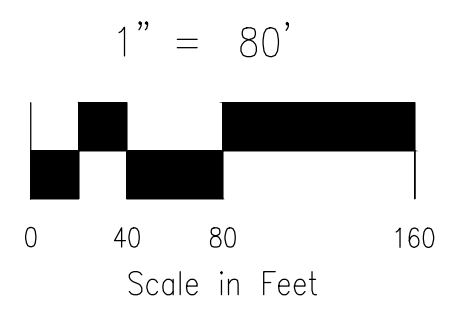
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CAUTION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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SEE SHEET S119



PAINT BRUSH HILLS FILING NO. 14
 SIGNAGE AND STRIPING PLAN
 PROJECT NO. 10-014 FILE: \eng\Const Dwg\Street & Storm Plans\S18-19.dwg
 DATE: 03/19/2021
 DESIGNED BY: JWP SCALE
 DRAWN BY: JWP HORIZ: 1"=50'
 CHECKED BY: GW VERT: N/A

212 N. WABATCH AVE., STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

M&S CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

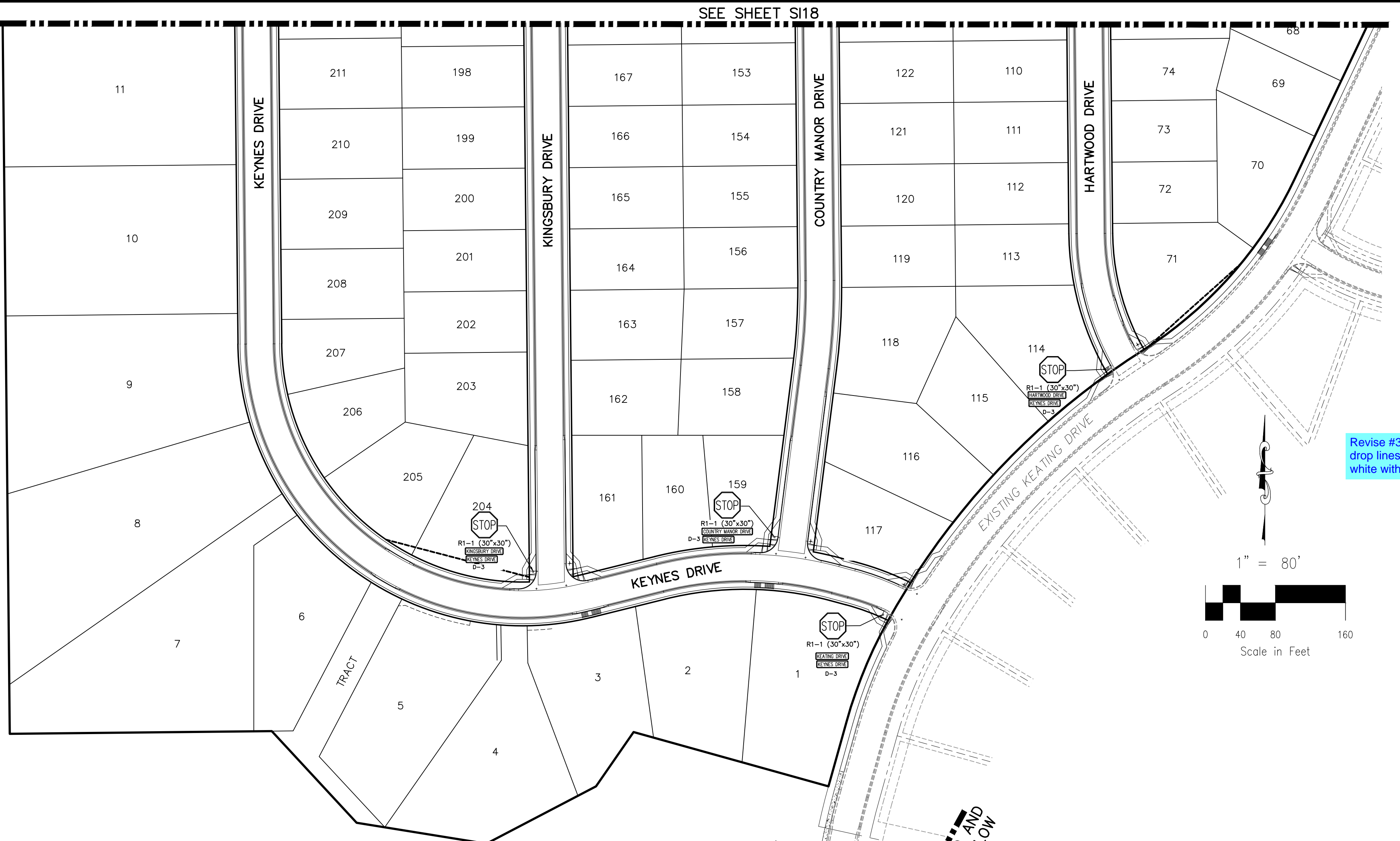
NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

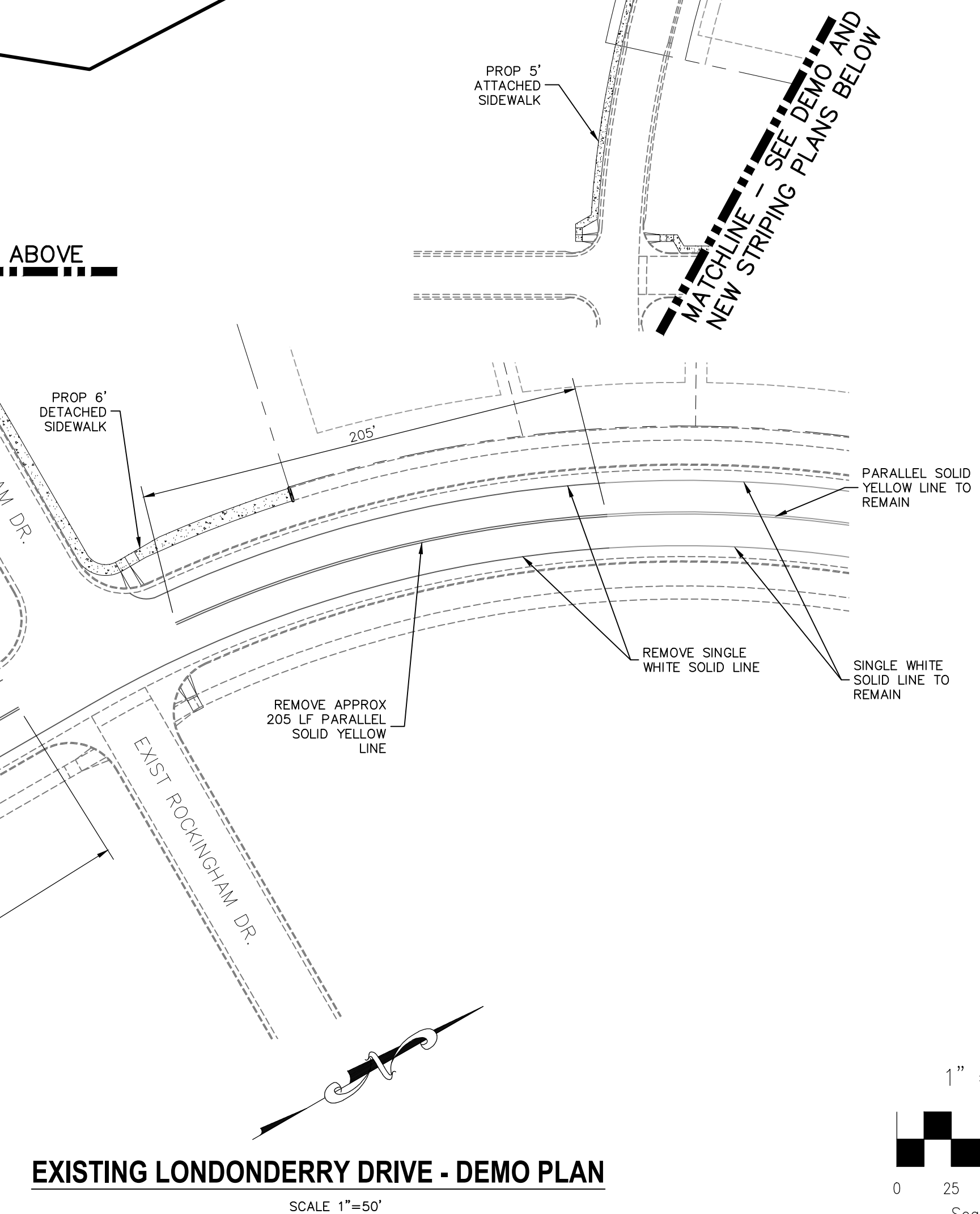
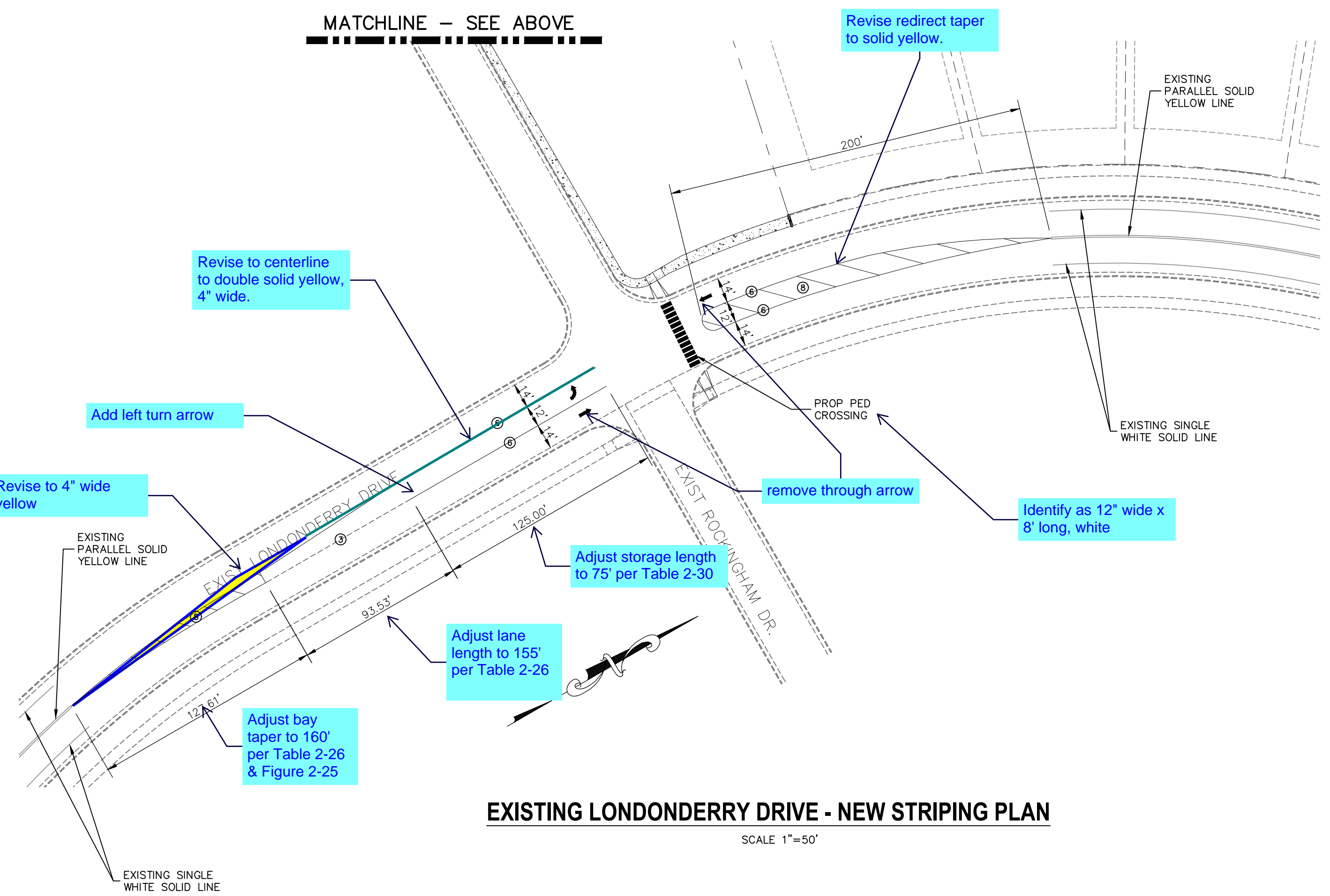
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PAINT BRUSH HILLS FILING NO. 14
 SIGNAGE AND STRIPING PLAN
 PROJECT NO. 10-014 FILE: \eng\const\Draw\Street & Storm Plans\S18-19.dwg DATE: 03/19/2021
 DESIGNED BY: JWP SCALE
 DRAWN BY: JWP HORIZ: 1"=50'
 CHECKED BY: GW VERT: N/A SHEET 19 OF 30 S19

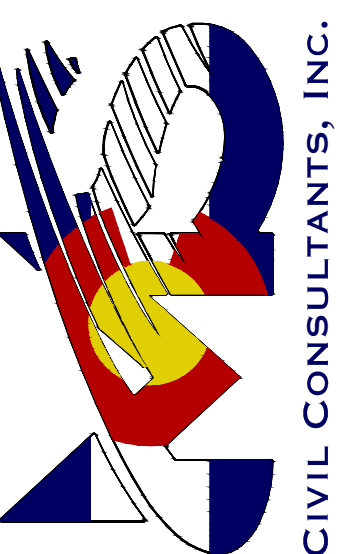


STRIPE	PAVEMENT MARKINGS	MARKING DESCRIPTION
①	2-WAY LEFT TURN LANE MARKINGS (EPOXY)	OUTSIDE: SOLID YELLOW, 4" WIDE, INSIDE: BROKEN YELLOW, 4" WIDE, 10' SEGMENTS WITH 30" GAPS
②	2-WAY CENTERLINE LANE MARKINGS (EPOXY)	PARALLEL SOLID YELLOW, 4" WIDE, 4" APART
③	LANE LANES (EPOXY)	BROKEN WHITE, 4" WIDE, 10' SEGMENTS WITH 30" GAPS
④	BROKEN EDGE/BIKE LANE LINES (EPOXY)	BROKEN WHITE, 4" WIDE, 5' SEGMENTS WITH 15" GAPS
⑤	EDGE/BIKE LANE LINES (EPOXY)	SOLID WHITE, 6" WIDE
⑥	CHANNELIZING LINES (EPOXY)	SOLID WHITE, 8" WIDE
⑦	STOP LINES (THERMO PLASTIC)	SOLID WHITE, 24" WIDE
⑧	CHEVRON/DIAGONAL CROSSHATCH	SOLID WHITE, 12" WIDE

NOTE: ALL STRIPING INSTALLATION SHALL BE PER COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) "M&S STANDARDS" STANDARD PLAN NO. S-627-1.



212 N. WABATCH AVE., STE 205
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485



FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

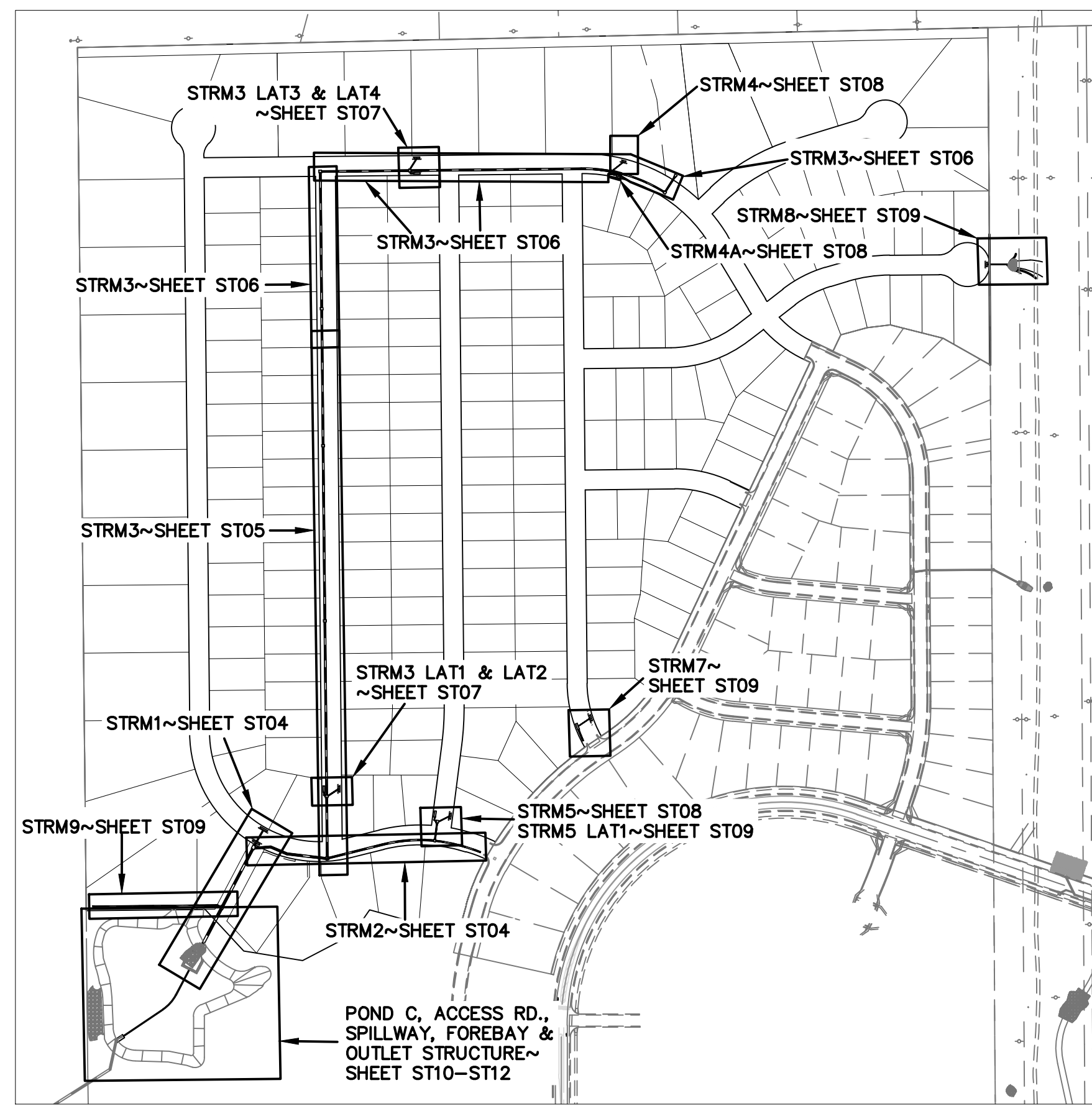


REVISIONS:	NO.	DATE:	BY:	DESCRIPTION:

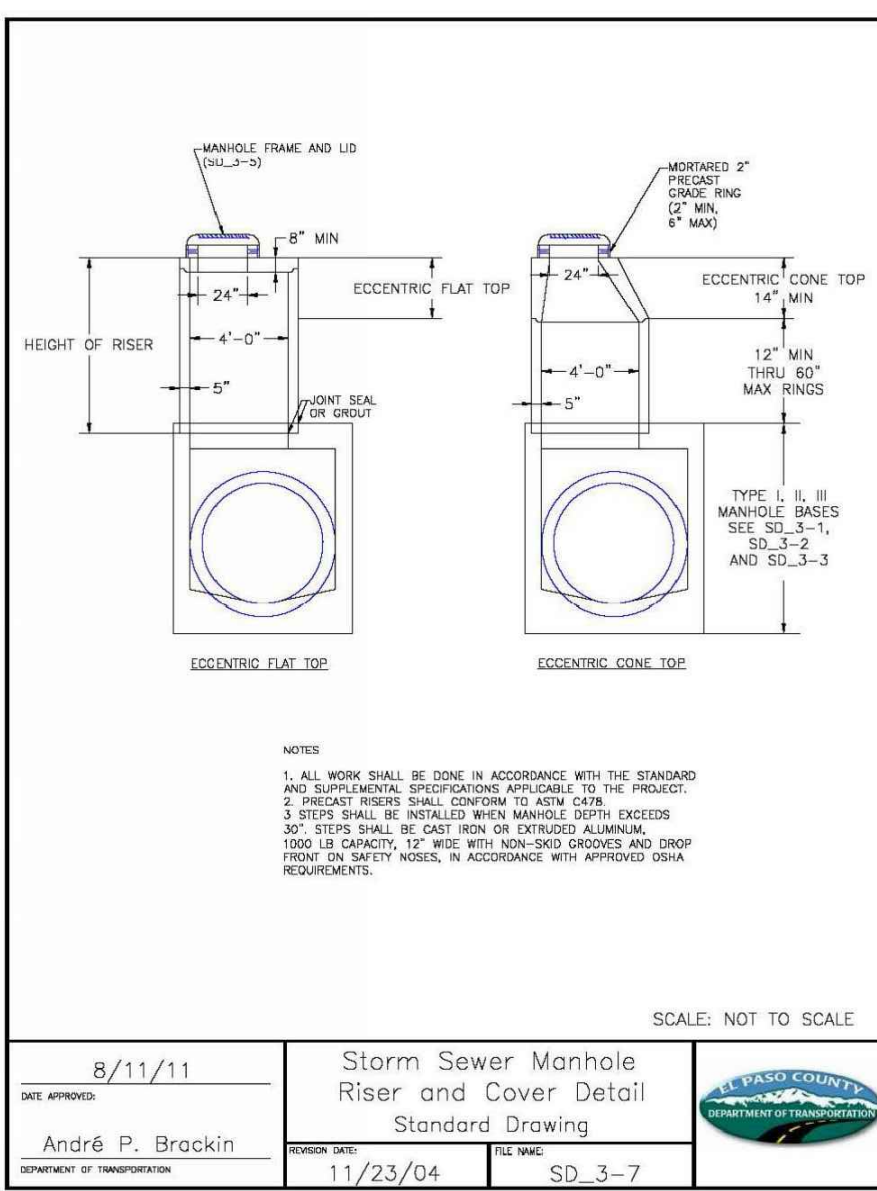
DATE: _____

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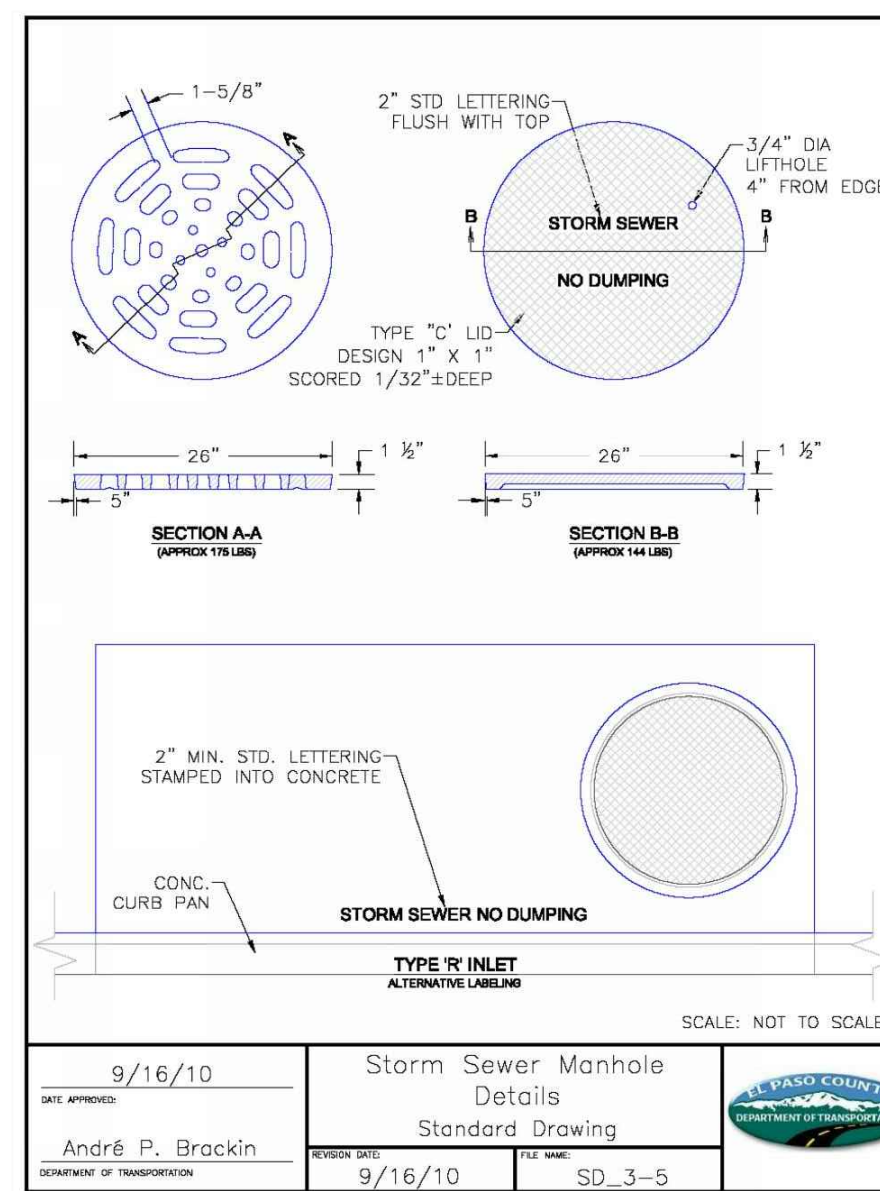
CAUTION



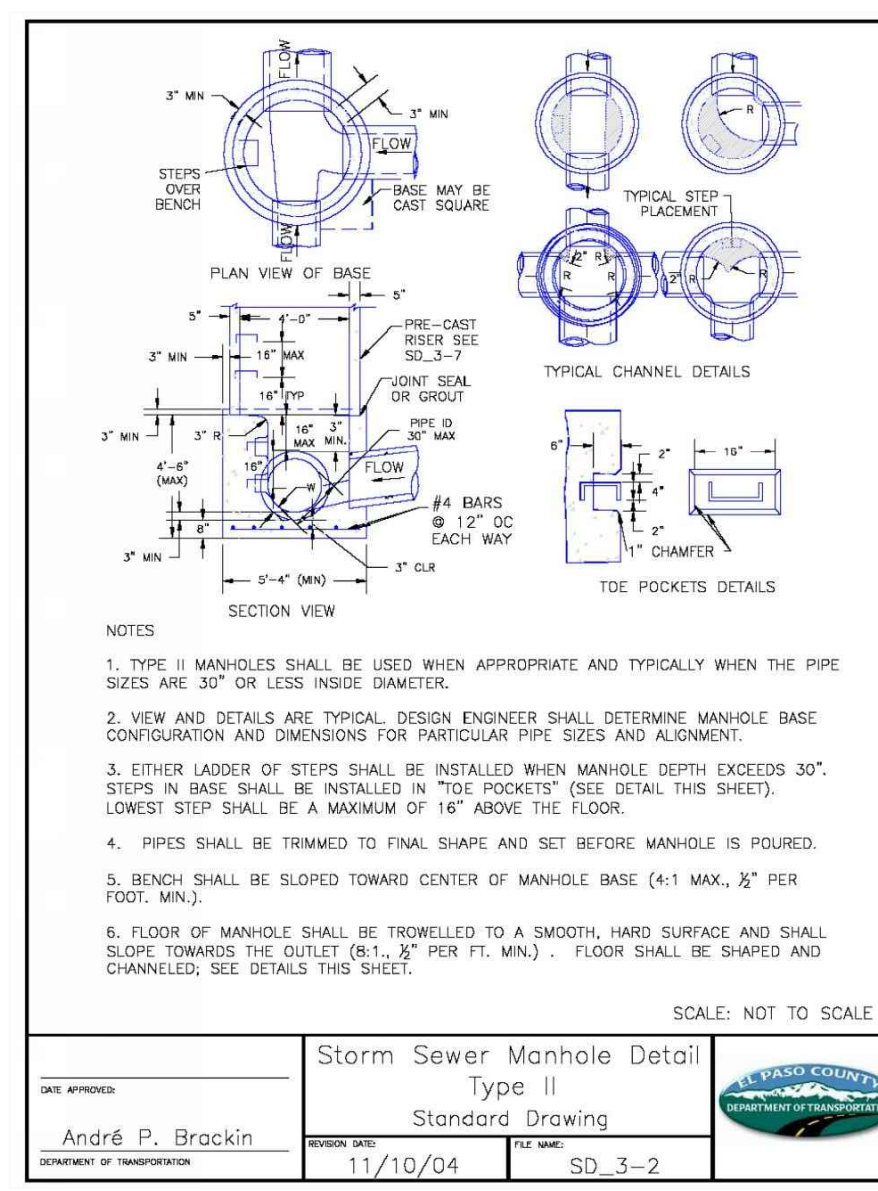
SHEET KEY MAP
N.T.S.



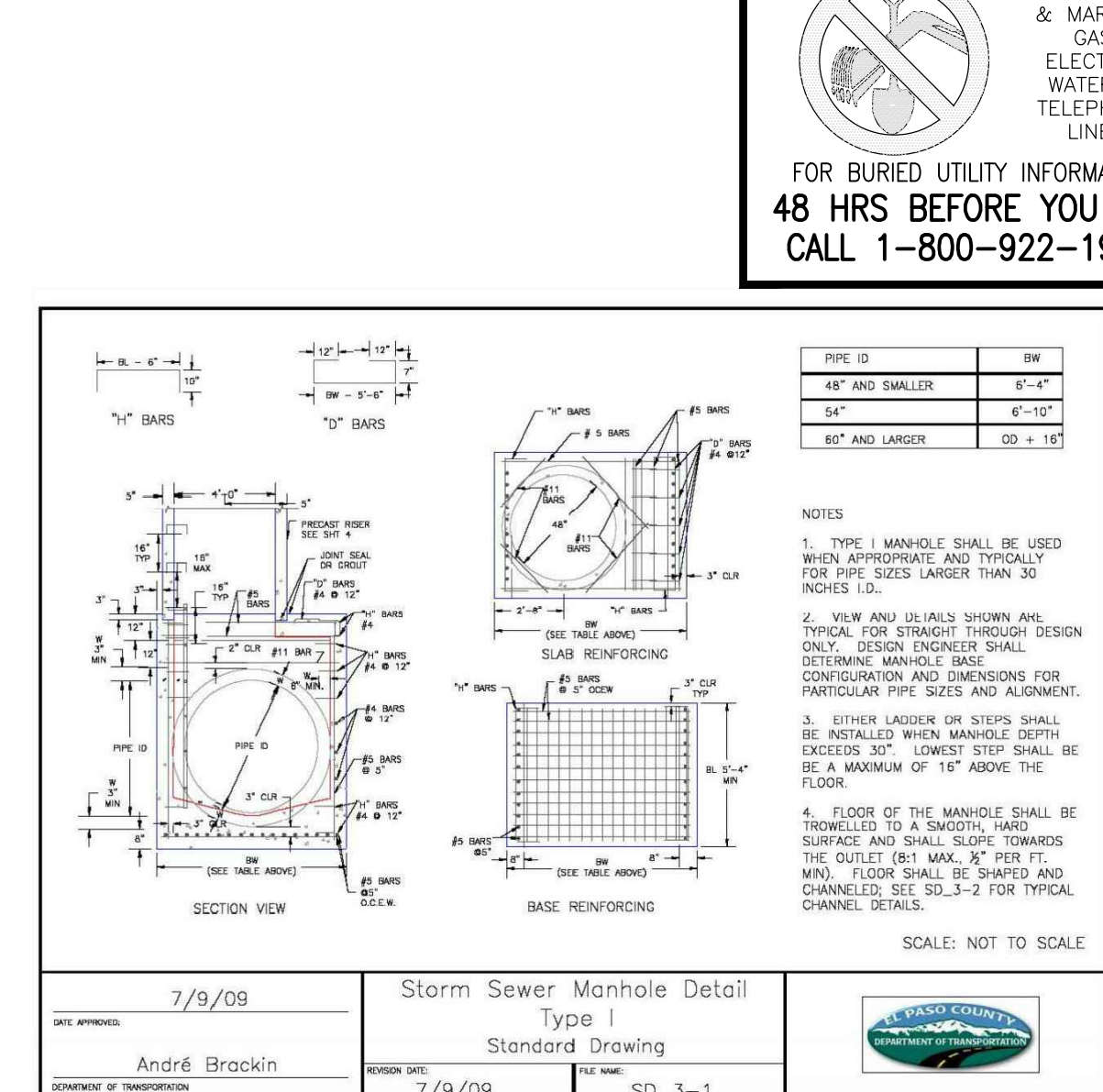
STORM SEWER MANHOLE
RISER AND COVER DETAIL
TYPE SD 3-7



STORM SEWER MANHOLE
LID DETAILS SD 3-5



STORM SEWER MANHOLE DETAIL
TYPE II SD 3-2



STORM SEWER MANHOLE DETAIL
TYPE I SD 3-1

STEEL GRATE QUANTITIES

NO.	DESCRIPTION	LENGTH (PER FT. INCH)	WEIGHT (LBS.)
1	5/8" x 7/8" BEAM	40"	7.70
2	3/4" x 1/2" FLAT	26 1/2"	2.98
3	3/4" x 1/2" FLAT	26 1/2"	2.55
TOTAL			13.23

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. REIN.
2'-0"	0.9	75	0
3'-0"	1.0	86	0
3'-6"	1.2	96	0
4'-0"	1.3	101	1
4'-6"	1.4	106	2
5'-0"	1.5	112	3
5'-6"	1.7	117	2
6'-0"	1.8	142	3
6'-6"	1.9	158	3
7'-0"	2.0	163	3
7'-6"	2.2	179	4
8'-0"	2.3	184	4
8'-6"	2.4	199	4
9'-0"	2.5	205	5
9'-6"	2.7	220	5
10'-0"	3.0	235	6
10'-6"	3.4	251	6

GENERAL NOTES

- INLET TYPE C IS NOT HO-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2" IN CLEARANCE OUT OR BEND AROUND PIPES AS REQUIRED.
- CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6" x 6" x 1/4" x 1/4" OR 8" x 8" x 1/4" x 1/4" WELLS.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3'-6" - 6" IN, AND SHALL CONFORM TO ASHOTO M 199.
- SEE STANDARD PLAN M-604-11 FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ALL INLETS SHALL HAVE A 4" DIA. METAL MEDALLION WITH A "NO DUMPING DRUGS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H=2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO.	NO. REIN.	HEIGHT	LENGTH
401	2	2	2'-3"	7'-0"
401	6	2	7'-0"	8'-7"
402	3	1	15'-0"	15'-0"

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PAINT BRUSH HILLS FILING NO. 14
GENERAL NOTES AND DETAILS
PROJECT NO. 10-014 FILE: Yang\Const\Eng\Storm - District\ST02.dwg
DESIGNED BY: CT SCALE: N/A
DRAWN BY: CMM HORIZ: N/A
CHECKED BY: VAS VERT: N/A

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
PROFESSIONAL ENGINEER
NO. 37160
3-22-21

REVISIONS: NO. DATE: BY: DESCRIPTION:
APPROVED BY: DATE:
DATE: 03/19/21
SHEET 20 OF 30
ST02

GENERAL NOTES

- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4" IN.
- WINDOW FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED MULTIDIRECTIONALLY.
- DIMENSIONS "H", "R", "RISE", "H", "H" AND ANGLES FOR WINDOW WALLS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPLICE LENGTH FOR COMMON BAR SIZES SHALL BE:

BAR	#4	#5	#6
SPLICE LENGTH	1'-3"	1'-7"	2'-0"

DESIGN TABLE

DESIGN FOOTING LINE	CONSTRUCTION FOOTING LINE	b=4'-0"	h=8'-0"
3'-8"	2'-0"	1'-2"	1'-2"
4'-4"	2'-0"	1'-2"	1'-2"
5'-0"	2'-0"	1'-2"	1'-2"
5'-6"	2'-0"	1'-2"	1'-2"
6'-2"	2'-0"	1'-2"	1'-2"
6'-8"	2'-0"	1'-2"	1'-2"
7'-4"	2'-0"	1'-2"	1'-2"
8'-0"	2'-0"	1'-2"	1'-2"
8'-6"	2'-0"	1'-2"	1'-2"
9'-2"	2'-0"	1'-2"	1'-2"
9'-8"	2'-0"	1'-2"	1'-2"
10'-4"	2'-0"	1'-2"	1'-2"
11'-0"	2'-0"	1'-2"	1'-2"
11'-6"	2'-0"	1'-2"	1'-2"
12'-2"	2'-0"	1'-2"	1'-2"
12'-8"	2'-0"	1'-2"	1'-2"
13'-4"	2'-0"	1'-2"	1'-2"
14'-0"	2'-0"	1'-2"	1'-2"
14'-6"	2'-0"	1'-2"	1'-2"
15'-2"	2'-0"	1'-2"	1'-2"
15'-8"	2'-0"	1'-2"	1'-2"
16'-4"	2'-0"	1'-2"	1'-2"
17'-0"	2'-0"	1'-2"	1'-2"
17'-6"	2'-0"	1'-2"	1'-2"
18'-2"	2'-0"	1'-2"	1'-2"
18'-8"	2'-0"	1'-2"	1'-2"
19'-4"	2'-0"	1'-2"	1'-2"
20'-0"	2'-0"	1'-2"	1'-2"
20'-6"	2'-0"	1'-2"	1'-2"
21'-2"	2'-0"	1'-2"	1'-2"
21'-8"	2'-0"	1'-2"	1'-2"
22'-4"	2'-0"	1'-2"	1'-2"
23'-0"	2'-0"	1'-2"	1'-2"
23'-6"	2'-0"	1'-2"	1'-2"
24'-2"	2'-0"	1'-2"	1'-2"
24'-8"	2'-0"	1'-2"	1'-2"
25'-4"	2'-0"	1'-2"	1'-2"
26'-0"	2'-0"	1'-2"	1'-2"
26'-6"	2'-0"	1'-2"	1'-2"
27'-2"	2'-0"	1'-2"	1'-2"
27'-8"	2'-0"	1'-2"	1'-2"
28'-4"	2'-0"	1'-2"	1'-2"
29'-0"	2'-0"	1'-2"	1'-2"
29'-6"	2'-0"	1'-2"	1'-2"
30'-2"	2'-0"	1'-2"	1'-2"
30'-8"	2'-0"	1'-2"	1'-2"
31'-4"	2'-0"	1'-2"	1'-2"
32'-0"	2'-0"	1'-2"	1'-2"
32'-6"	2'-0"	1'-2"	1'-2"
33'-2"	2'-0"	1'-2"	1'-2"
33'-8"	2'-0"	1'-2"	1'-2"
34'-4"	2'-0"	1'-2"	1'-2"
35'-0"	2'-0"	1'-2"	1'-2"
35'-6"	2'-0"	1'-2"	1'-2"
36'-2"	2'-0"	1'-2"	1'-2"
36'-8"	2'-0"	1'-2"	1'-2"
37'-4"	2'-0"	1'-2"	1'-2"
38'-0"	2'-0"	1'-2"	1'-2"
38'-6"	2'-0"	1'-2"	1'-2"
39'-2"	2'-0"	1'-2"	1'-2"
39'-8"	2'-0"	1'-2"	1'-2"
40'-4"	2'-0"	1'-2"	1'-2"
41'-0"	2'-0"	1'-2"	1'-2"
41'-6"	2'-0"	1'-2"	1'-2"
42'-2"	2'-0"	1'-2"	1'-2"
42'-8"	2'-0"	1'-2"	1'-2"
43'-4"	2'-0"	1'-2"	1'-2"
44'-0"	2'-0"	1'-2"	1'-2"
44'-6"	2'-0"	1'-2"	1'-2"
45'-2"	2'-0"	1'-2"	1'-2"
45'-8"	2'-0"	1'-2"	1'-2"
46'-4"	2'-0"	1'-2"	1'-2"
47'-0"	2'-0"	1'-2"	1'-2"
47'-6"	2'-0"	1'-2"	1'-2"
48'-2"	2'-0"	1'-2"	1'-2"
48'-8"	2'-0"	1'-2"	1'-2"
49'-4"	2'-0"	1'-2"	1'-2"
50'-0"	2'-0"	1'-2"	1'-2"

DESIGN DATA:

UNIT STRESSES: $f_c = 4,000$ PSI
 $f_y = 60,000$ PSI
 $n = 9$

EQUIVALENT FLUID PRESSURE = 30 LBS./CU. FT.
MAXIMUM TOE PRESSURE = 1 TON/SQ. FT.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE CONCRETE IS POURED.

WINDOW AND APRON CONCRETE SHALL BE CONCRETE CLASS B, OR D (BOX CULVERT) FOR CONCRETE CLASS B, OR D (WALL) FOR PIPES.

LIVE LOAD SURCHARGE HAS NOT BEEN CONSIDERED. WALLS WITHIN 1/2" OF THE EDGE OF THE ROADWAY SHOULD REQUIRE A SPECIAL DESIGN IN ACCORDANCE WITH ASHOTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

CDOT TYPE C INLET DETAIL
STD. NO. M-604-10

CDOT WINGWALL DETAIL
STD. NO. M-601-20

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GENERAL NOTES:

- FOR LENGTH (L) 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. CUT REINFORCEMENT BAR ACCORDINGLY.
- STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE.
- MEET SHAPE OF NORMAL BARRIER CURB AND GUTTER HERE.
- SEE CHANNEL LAYOUT ON SHEET 2.
- WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 2 FT. TRANSITION SHALL BE CONSTRUCTED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.
- A 2 IN. DIAMETER TEMPORARY HOLE FOR DRAINAGE SHALL BE PLACED AT SUBGRADE ELEVATION OR A MINIMUM THREE INCHES BELOW ROAD BASE. THE HOLE SHALL BE PLUGGED WITH CONCRETE BEFORE ACCEPTANCE OF THE INLET.

Computer File Information

Creation Date: 07/04/12 Initials: DD
 Last Modification Date: 07/04/12 Initials: LTA
 Full Path: www.colorado.gov/info/business/designsupport
 Drawing File Name: 604012012.dgn
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820
 Project Development Branch DD/LTA

CURB INLET TYPE R
 STANDARD PLAN NO. M-604-12
 Sheet No. 1 of 2

GENERAL NOTES:

- INLET TYPE D IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
- SEE PLANS FOR SIZE AND LOCATION OF PIPE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE D INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT A COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM WITH AASHTO M 199.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE CUT OR BEND BARS AROUND PIPE AS REQUIRED.
- ALL INLETS SHALL HAVE A 4 IN. DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE INLET'S SURFACE WITH A PERMANENT FASTENER.

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Date:	Comments:

Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820
 Project Development Branch DD/LTA

INLET, TYPE D
 STANDARD PLAN NO. M-604-11
 Sheet No. 1 of 1

GENERAL NOTES:

- CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
- CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
- INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
- CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
- REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
- DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
- MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
- SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
- STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.

Computer File Information

Creation Date: 07/04/12 Initials: DD
 Last Modification Date: 07/04/12 Initials: LTA
 Full Path: www.colorado.gov/info/business/designsupport
 Drawing File Name: 604012012.dgn
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation
 4201 East Arkansas Avenue
 Denver, Colorado 80222
 Phone: (303) 757-9083
 Fax: (303) 757-9820
 Project Development Branch DD/LTA

CURB INLET TYPE R
 STANDARD PLAN NO. M-604-12
 Sheet No. 2 of 2

Hydraulic Structures Chapter 9

Rinker Materials-Denver Pipe Plant Curved Alignment Guide - Gasketed RCP

Diameter (in)	Joint Gap (in)	Wall Thickness (in)	O.D. (in)	Angle (degree)	Allowable Pull (in)	Min. Radius (feet)
12	0.5	2	16	1.8	3.0	128
15	0.5	2.25	19.5	1.5	2.5	156
18	0.5	2.5	23	1.2	2.1	184
24	0.5	2.75	29.5	1.0	1.6	236
30	0.563	3.5	37	0.9	1.5	263
36	0.625	4	44	0.8	1.4	282
42	0.688	4.5	51	0.8	1.3	297
48	0.75	5	58	0.7	1.2	309
54	0.75	6.25	66.5	0.6	1.1	355
60	0.75	6.75	73.5	0.6	1.0	392
66	0.75	7.25	80.5	0.5	0.9	429
72	0.75	7.75	87.5	0.5	0.8	467
84	0.75	8.75	101.5	0.4	0.7	541
90	0.75	9.25	108.5	0.4	0.7	579
96	0.75	9.75	115.5	0.4	0.6	616

Figure 9-37. Low tailwater riprap basin

Urban Drainage and Flood Control District
 Urban Storm Drainage Criteria Manual Volume 2
 September 2017

PAINT BRUSH HILLS FILING NO. 14

GENERAL NOTES AND DETAILS

PROJECT NO. 10-014 FILE: Yang/Const/Eng/Storm - District/ST03.dwg
 DATE: 03/19/21
 DESIGNED BY: CT SCALE: N/A
 DRAWN BY: CMM HORIZ: N/A
 CHECKED BY: VAS VERT: N/A

212 N. WABATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
 NO. 37160
 EXPIRES 3-22-21

REVISIONS:
 NO. DATE: BY: DESCRIPTION:

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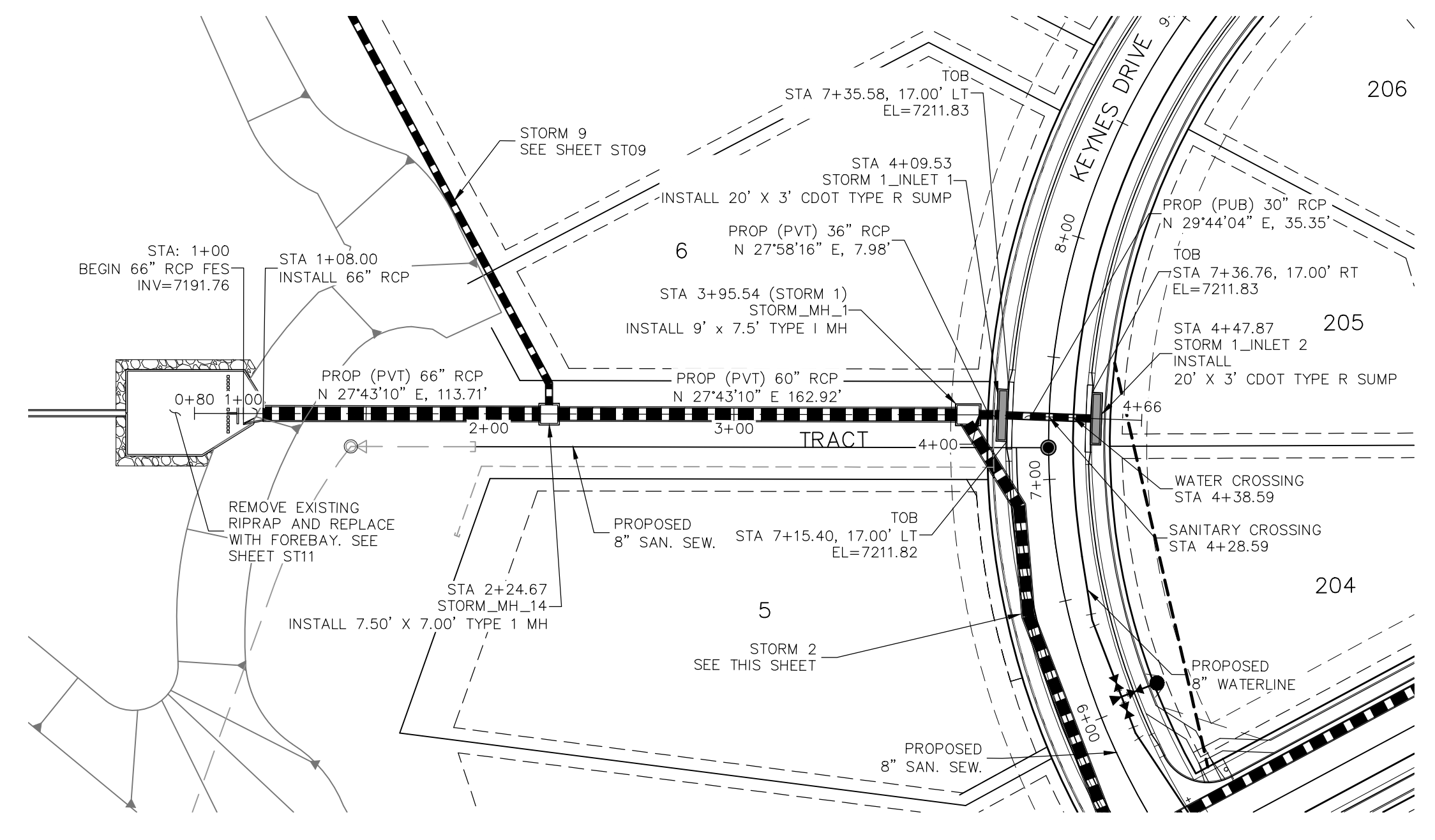
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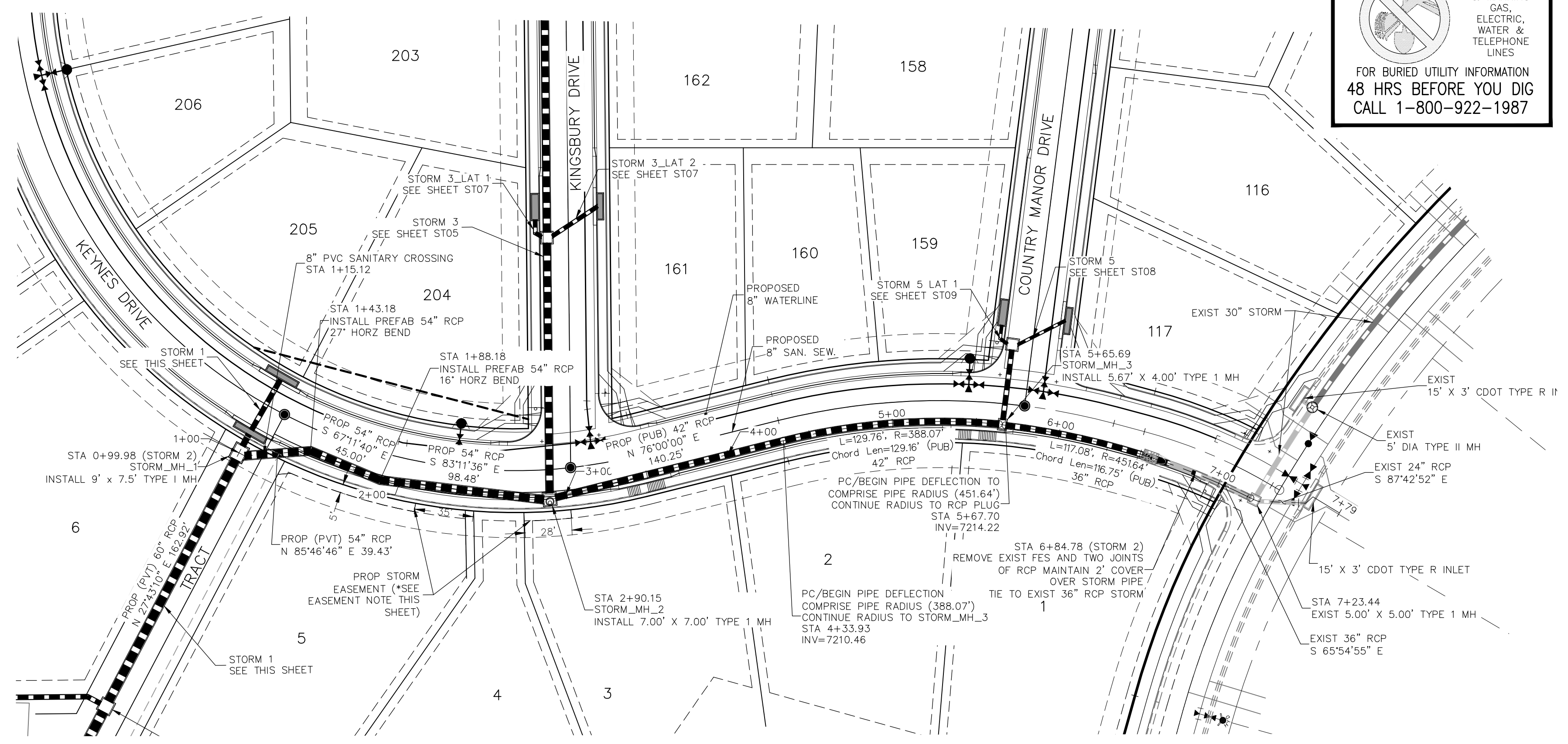
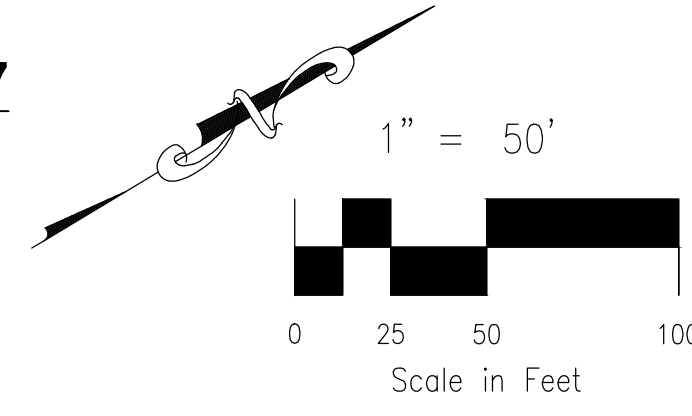
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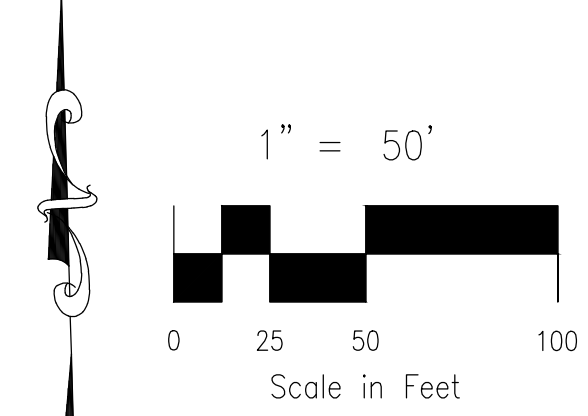
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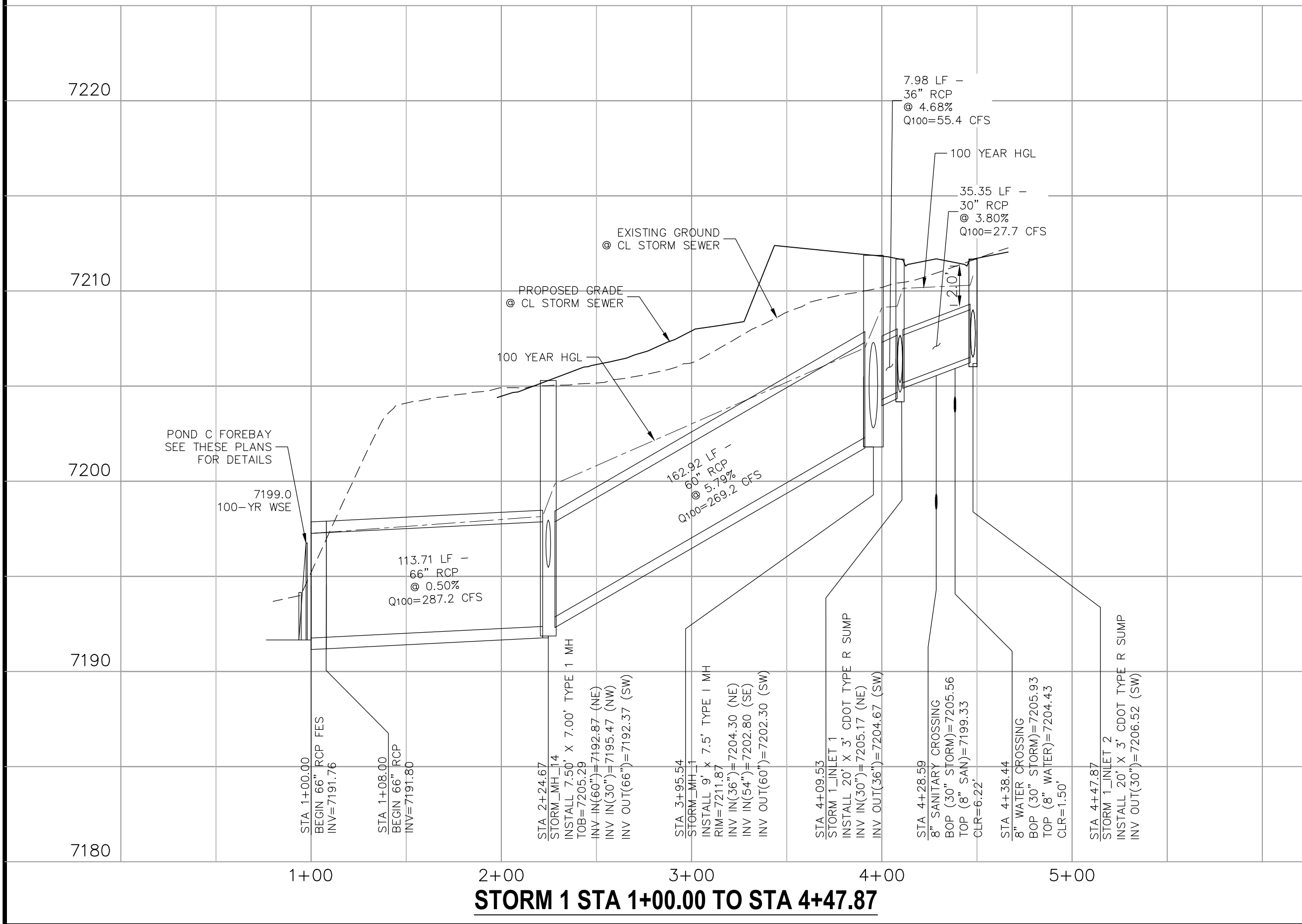


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STA 0+99.98 TO STA 7+23.44

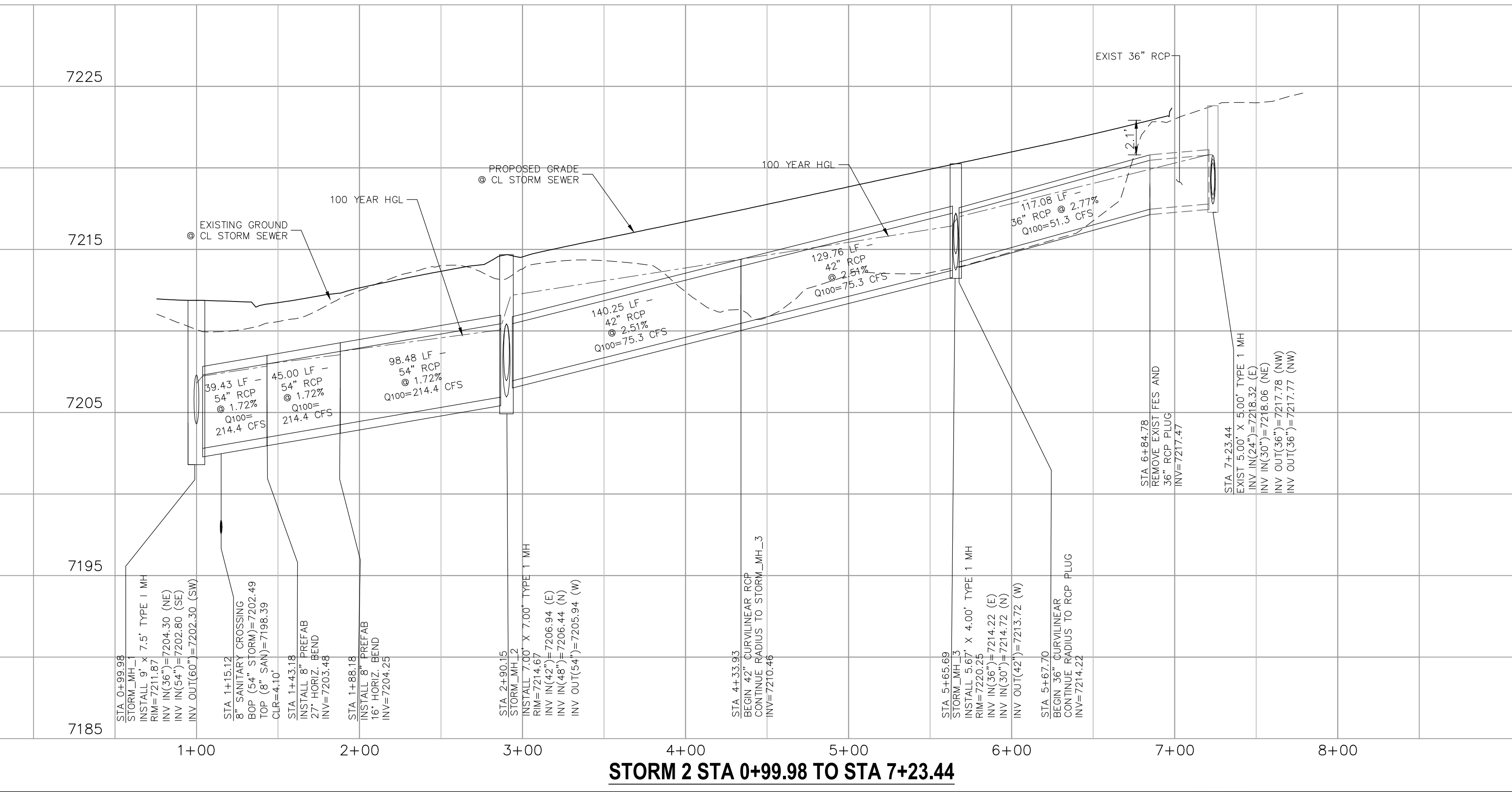


***LOT 5 & LOT 3 STORM SEWER EASEMENT NOTE:**
 NO FENCING OR DRIVEWAY SHALL BE PLACED WITHIN THE STORM SEWER EASEMENT

- NOTE:**
- SEE SHEET ST03 FOR MANUFACTURERS MINIMUM PIPE RADII. PRIOR TO INSTALLATION, CONTRACTOR MUST CONTACT DESIGN ENGINEER IF PIPE MANUFACTURERS MINIMUM RADII IS NOT MET.
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 - MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.

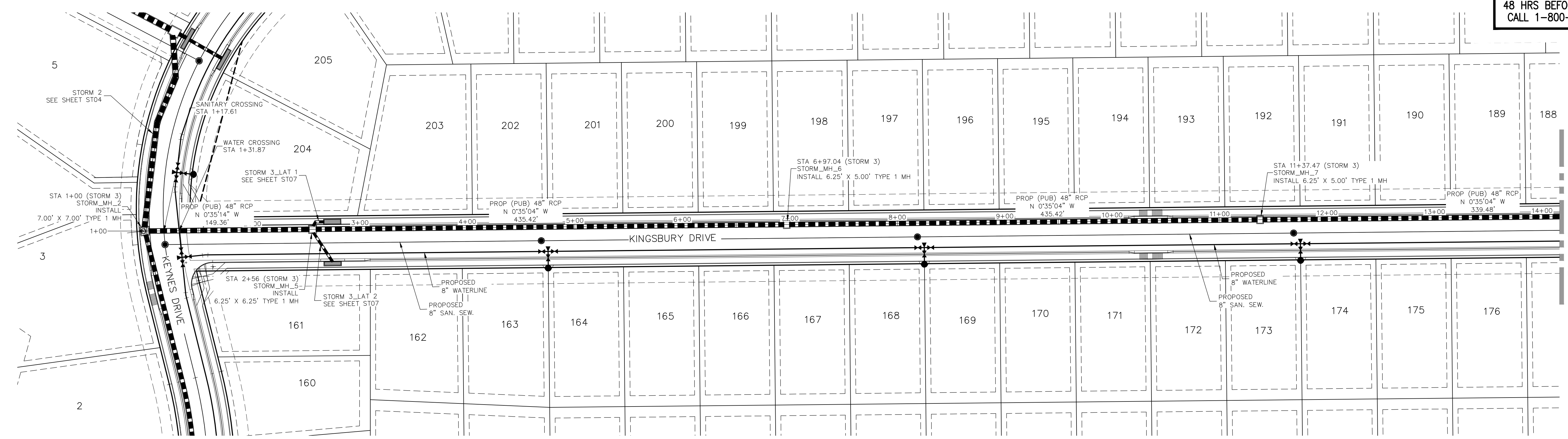


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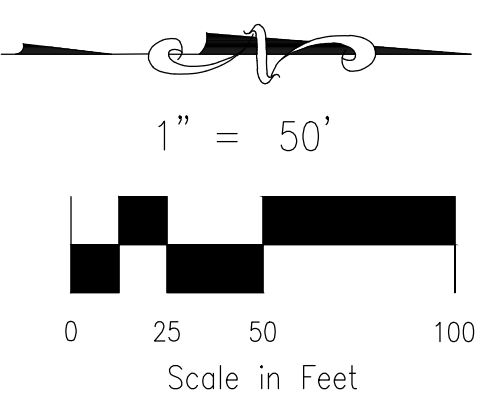


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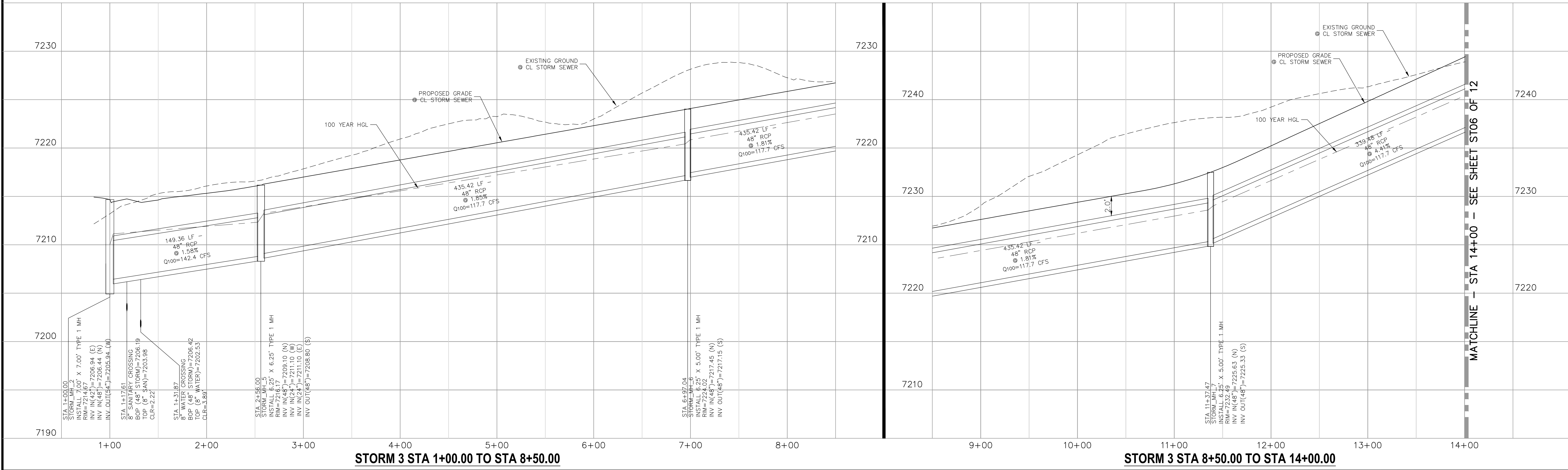
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**STORM 3
 STA 1+00.00 TO STA 14+00.00**



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 2. MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.



STORM 3 STA 1+00.00 TO STA 8+50.00

STORM 3 STA 8+50.00 TO STA 14+00.00

PAINT BRUSH HILLS FILING NO. 14

STORM PLAN & PROFILE

PROJECT NO. 10-014 DATE: 03/19/21

DESIGNED BY: GT SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DRAWN BY: CMN SHEET 23 OF 30

CHECKED BY: VAS ST05

212 N. WABATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
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FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

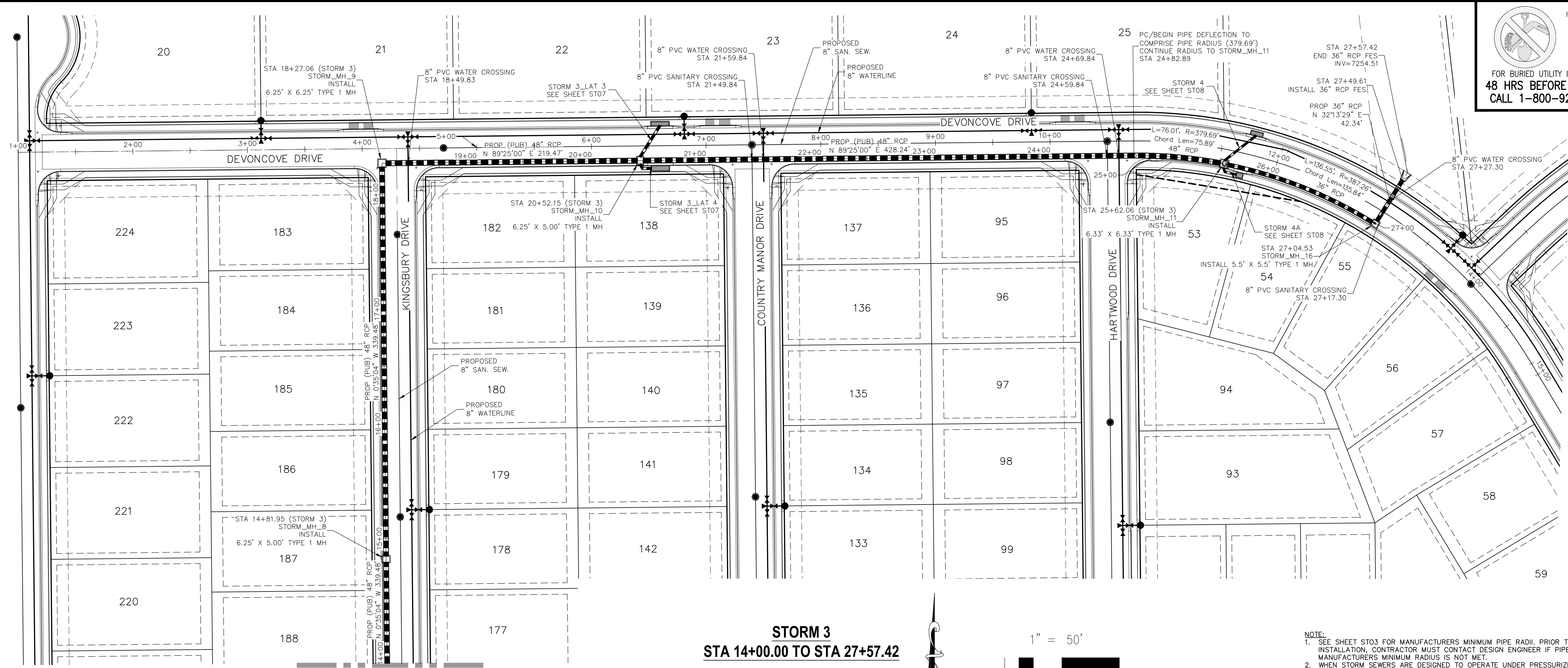
NO.	DATE	BY	DESCRIPTION

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CAUTION

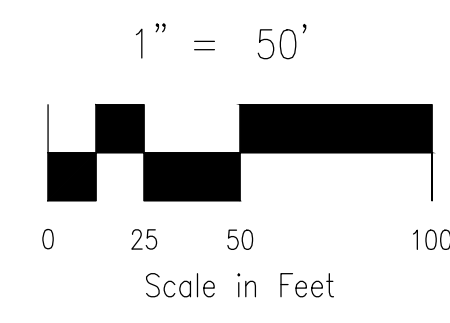
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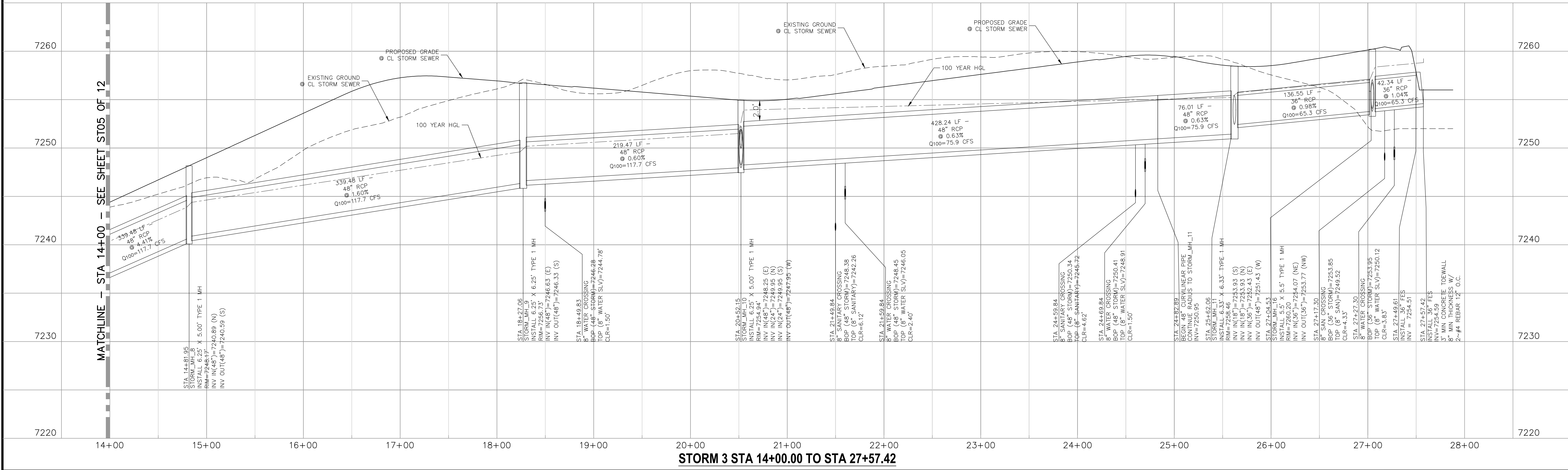
**STORM 3
STA 14+00.00 TO STA 27+57.42**



- NOTE:
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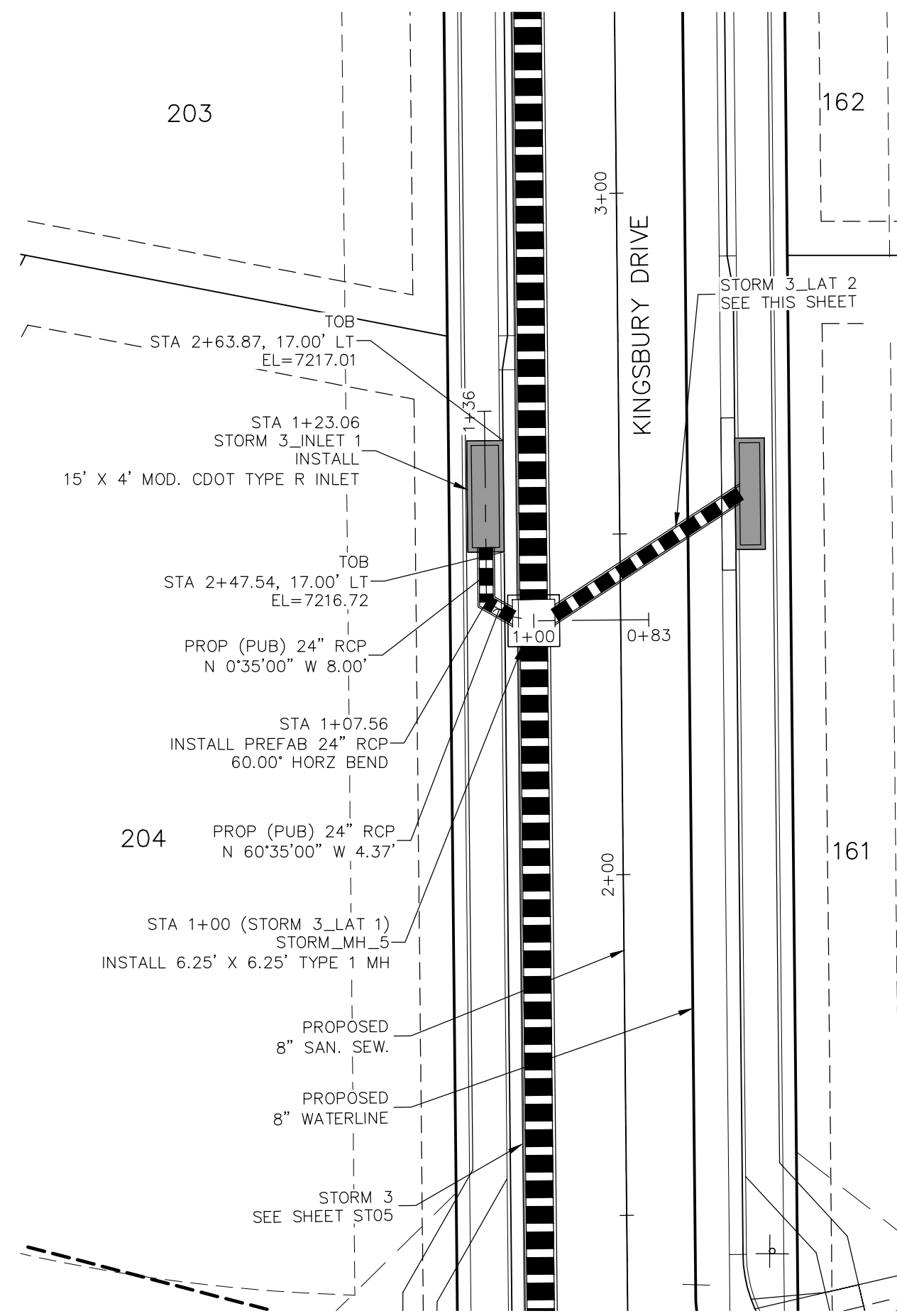
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SEE SHEET ST05 OF 12

MATCHLINE - STA 14+00 - SEE SHEET ST05 OF 12

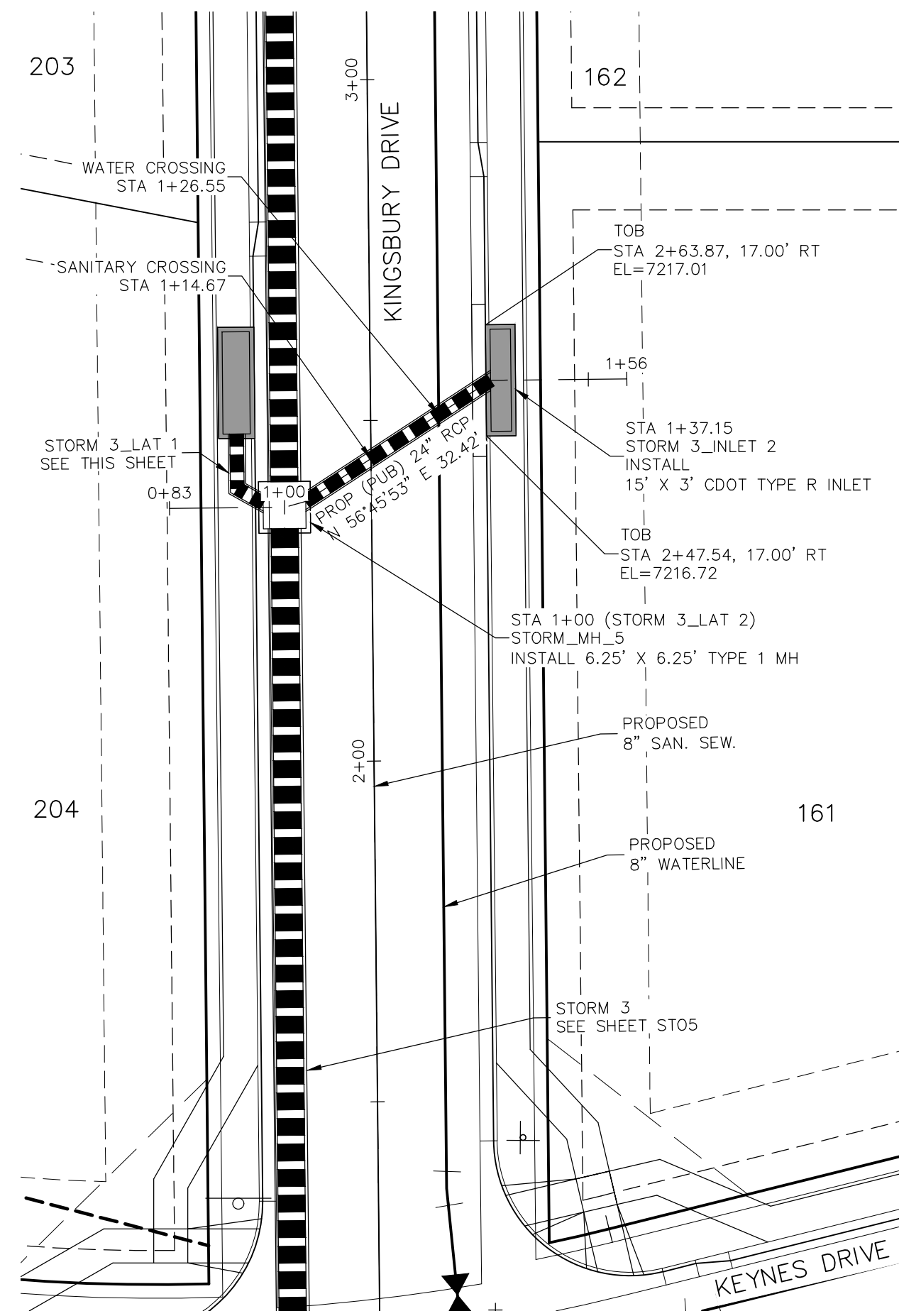


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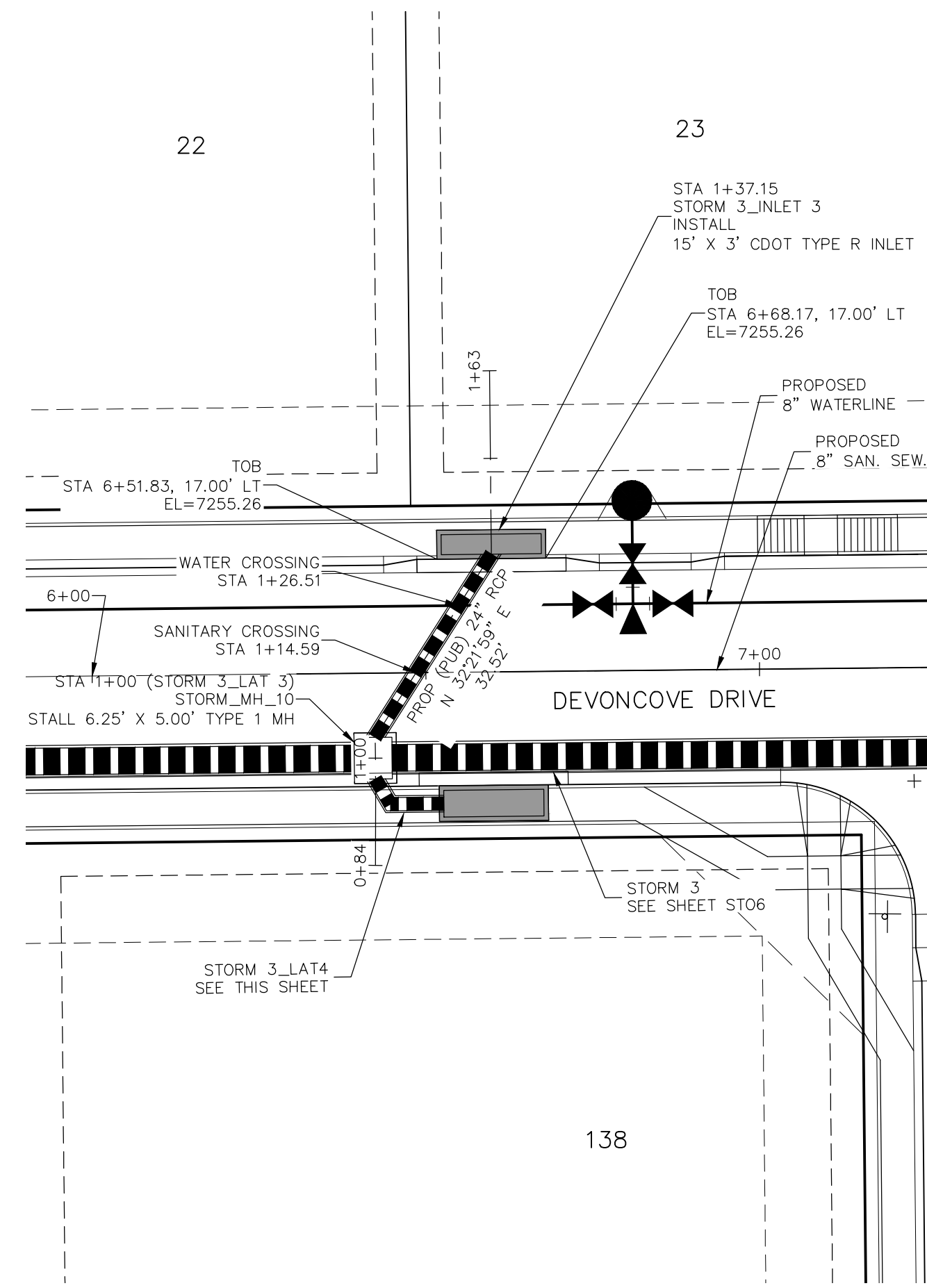
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<p>PROJECT NO. 10-014</p>	<p>DATE: 03/19/21</p>
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<p>DRAWN BY: CMN</p>	<p>SHEET 24 OF 30</p>
<p>CHECKED BY: VAS</p>	<p>ST06</p>
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<p>FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.</p>	
<p>MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160</p>	
<p>NO.:</p>	<p>DATE:</p>
<p>REVISIONS:</p>	<p>APPROVED BY:</p>
<p>BY:</p>	<p>DATE:</p>
<p>DESCRIPTION:</p>	
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<p>CAUTION</p>	



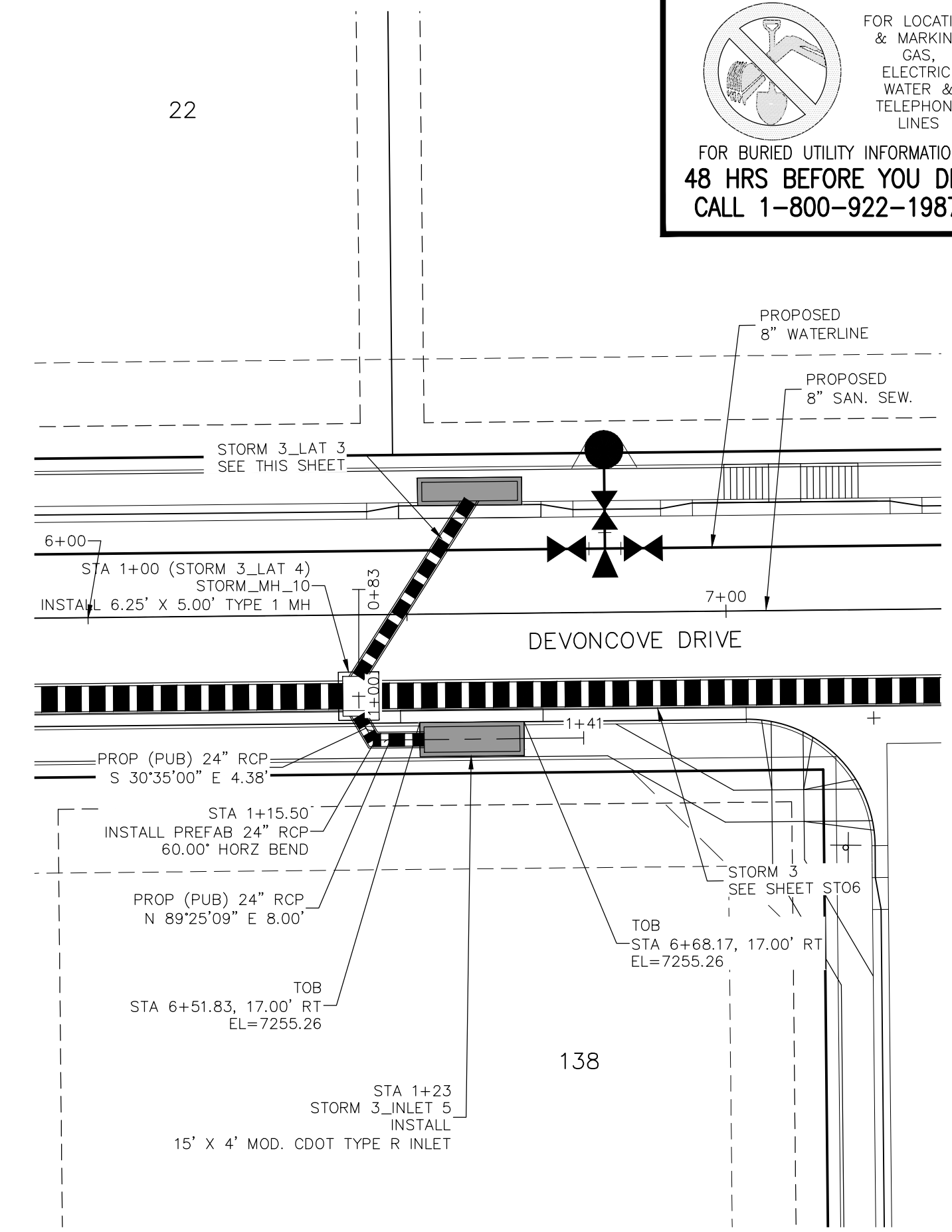
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STORM 3 LAT 2
STA 1+00.00 TO STA 1+37.15

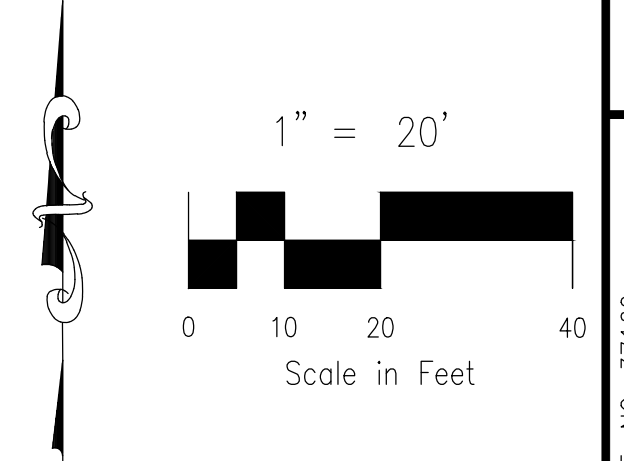


STORM 3 LAT 3
STA 1+00.00 TO STA 1+37.15



STORM 3 LAT 4
STA 1+00.00 TO STA 1+23.00

- NOTE:
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SCALE: HORIZONTAL: 1"=50'
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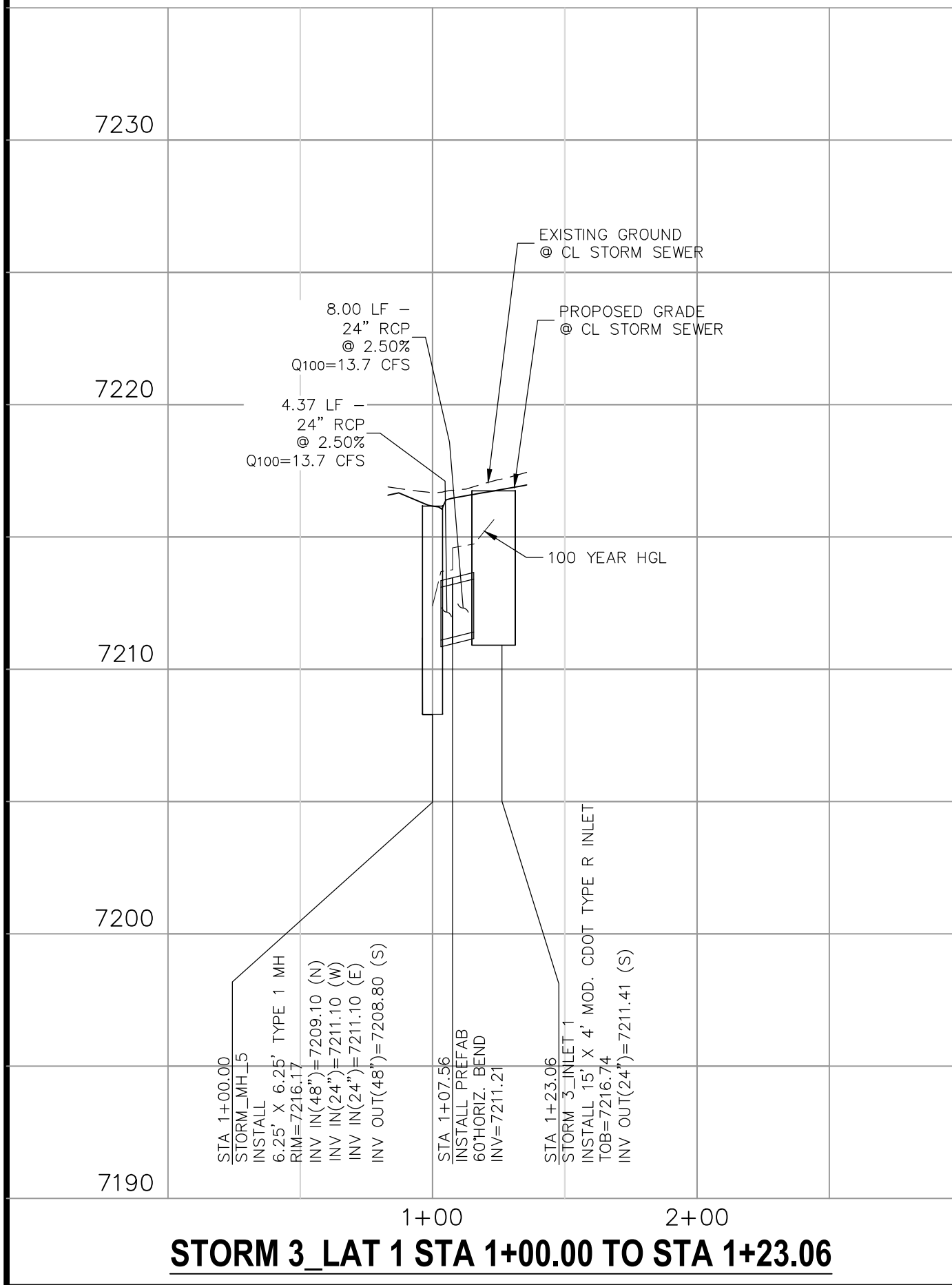
DATE: 03/19/21
SHEET 25 OF 30
ST07

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PHONE: 719.555.5485

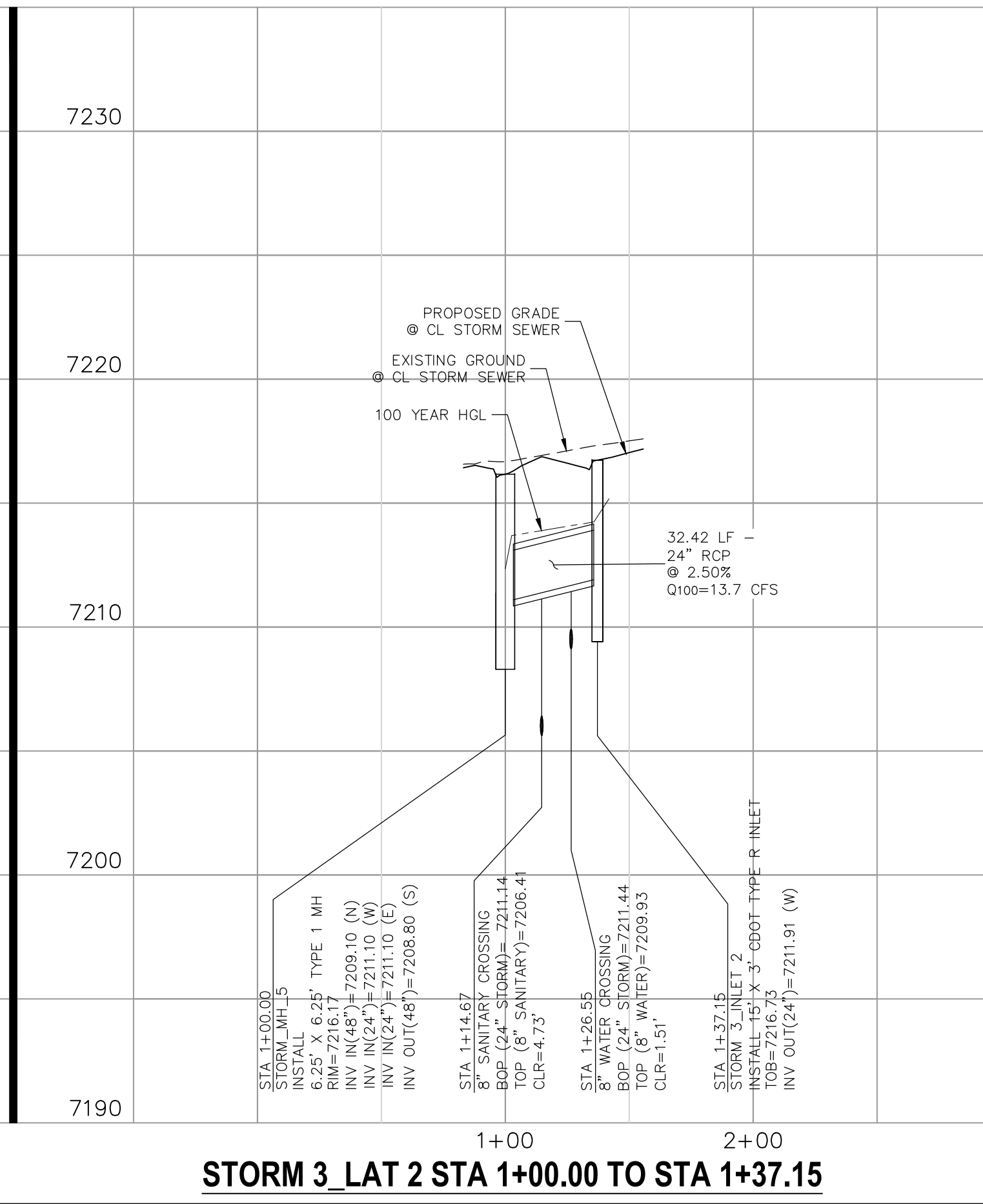
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FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

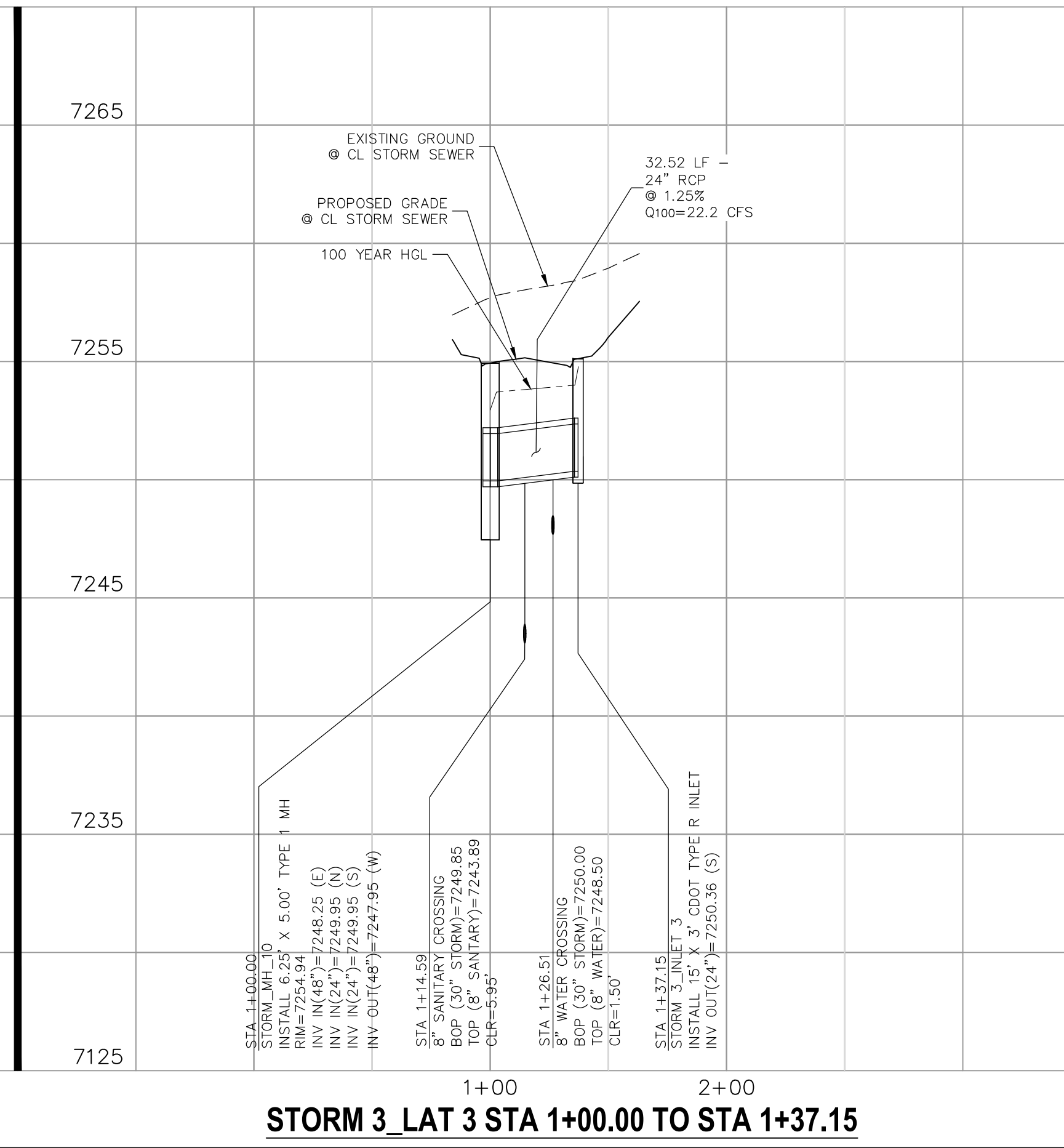
Virgil A. Sanchez, Colorado P.E. No. 37160



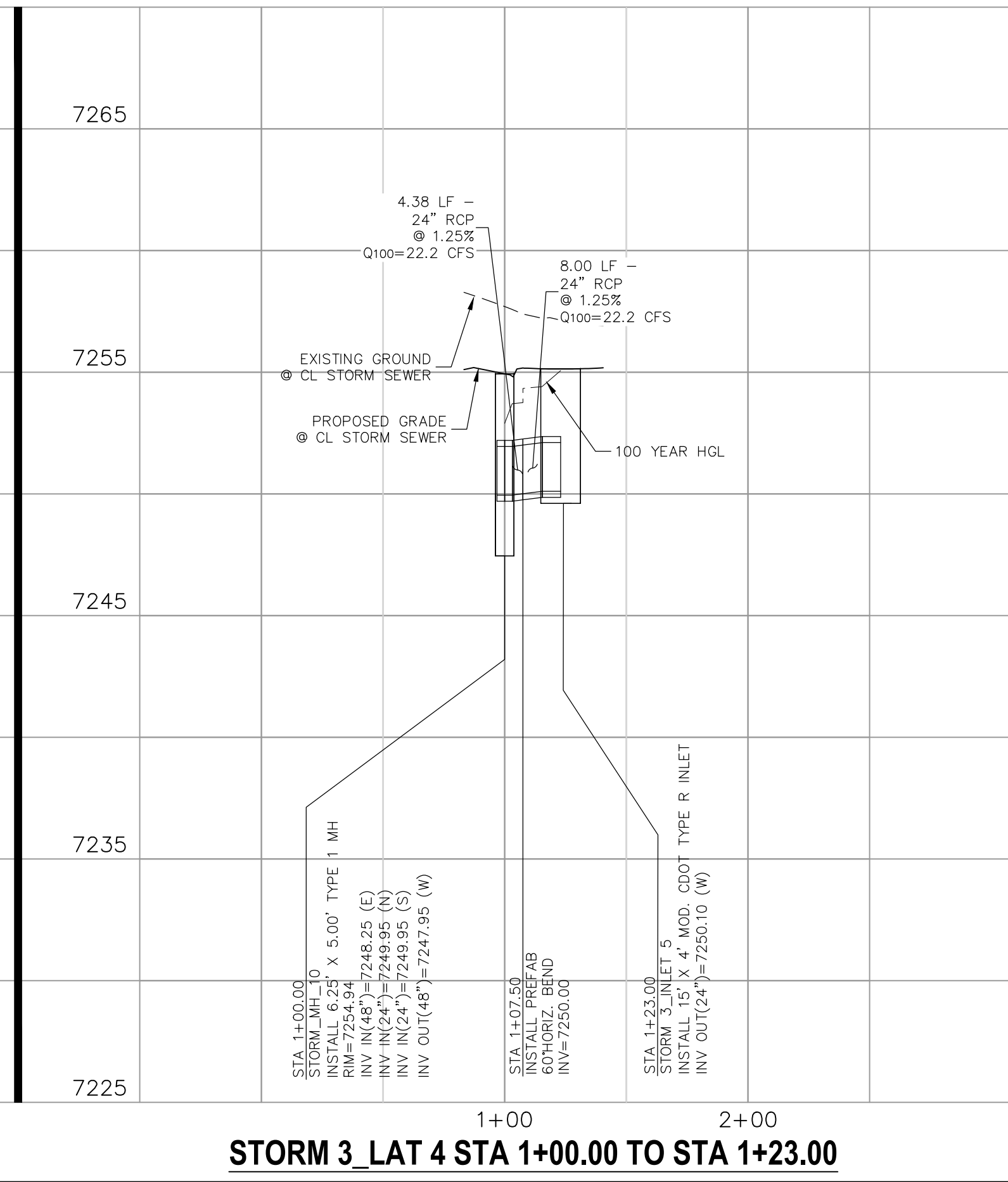
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STORM 3 LAT 2 STA 1+00.00 TO STA 1+37.15



STORM 3 LAT 3 STA 1+00.00 TO STA 1+37.15



STORM 3 LAT 4 STA 1+00.00 TO STA 1+23.00

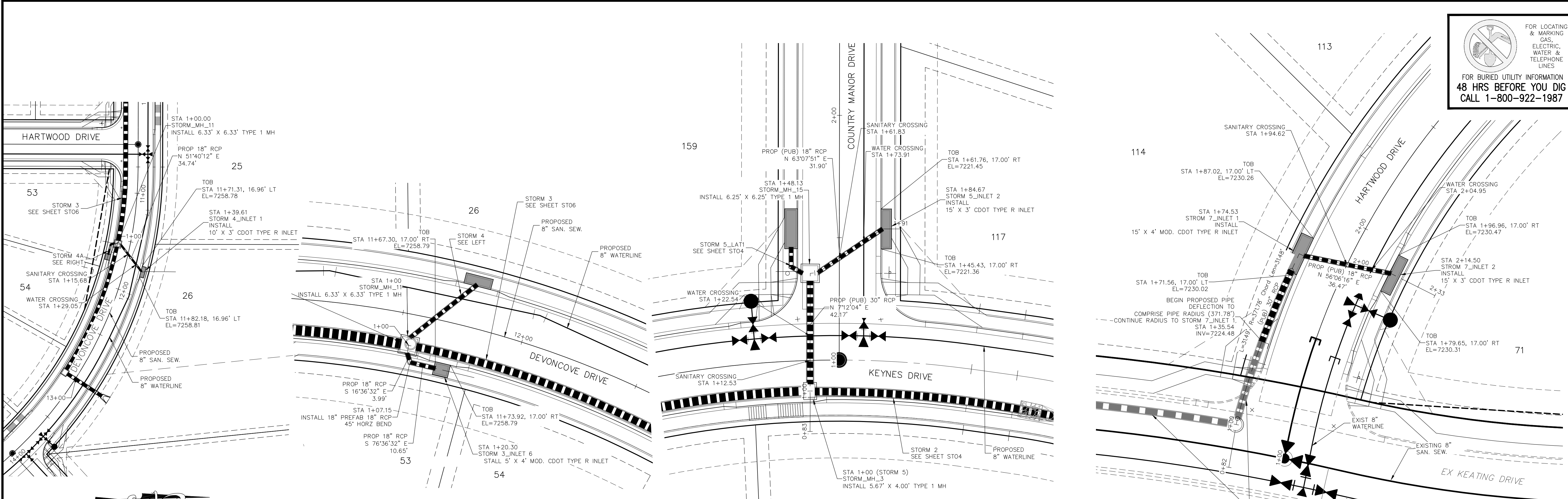
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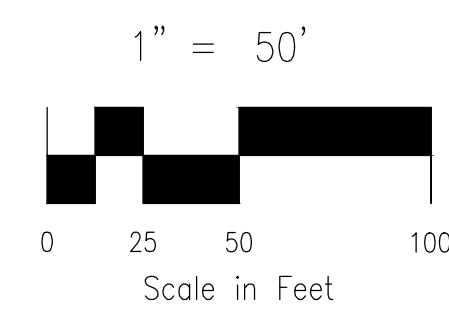
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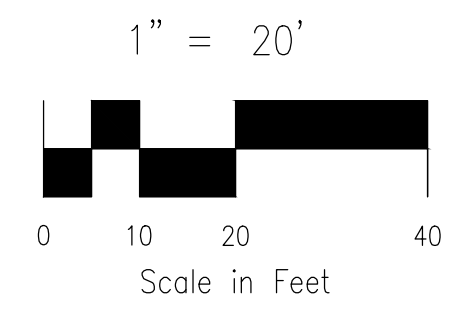
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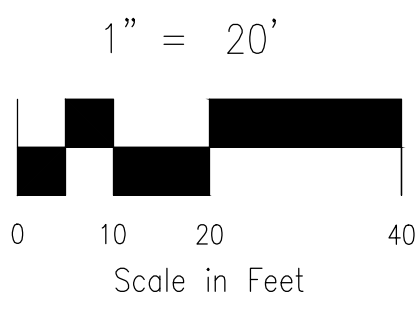
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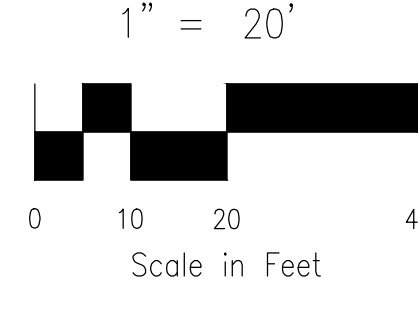
STORM 4A
 STA 1+00.00 TO STA 1+20.30



STORM 5
 STA 1+00.00 TO STA 1+84.67



STORM 7
 STA 1+00.00 TO STA 2+14.50



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7270	7270	7230	7230	7240	7240
7260	7260	7220	7220	7230	7230
7250	7250	7210	7210	7220	7220
7240	7240	7200	7200	7210	7210
7230	7230	7190	7200	7200	7210

STORM 4 STA 1+00.00 TO STA 1+39.61

STORM 4A STA 1+00.00 TO STA 1+20.30

STORM 5 STA 1+00.00 TO STA 1+84.67

STORM 7 STA 1+00.00 TO STA 2+14.50

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STORM PLAN & PROFILE

PROJECT NO. 10-014 DATE: 03/19/21
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: GT
 DRAWN BY: CMN
 CHECKED BY: VAS

212 N. WARSATCH AVE., STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MIRCEL A. SANCHEZ, COLORADO P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER
 STATE OF COLORADO
 3-22-21

REVISIONS: NO. DATE: BY: DESCRIPTION: APPROVED BY: DATE:


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 DESIGNED BY: GT
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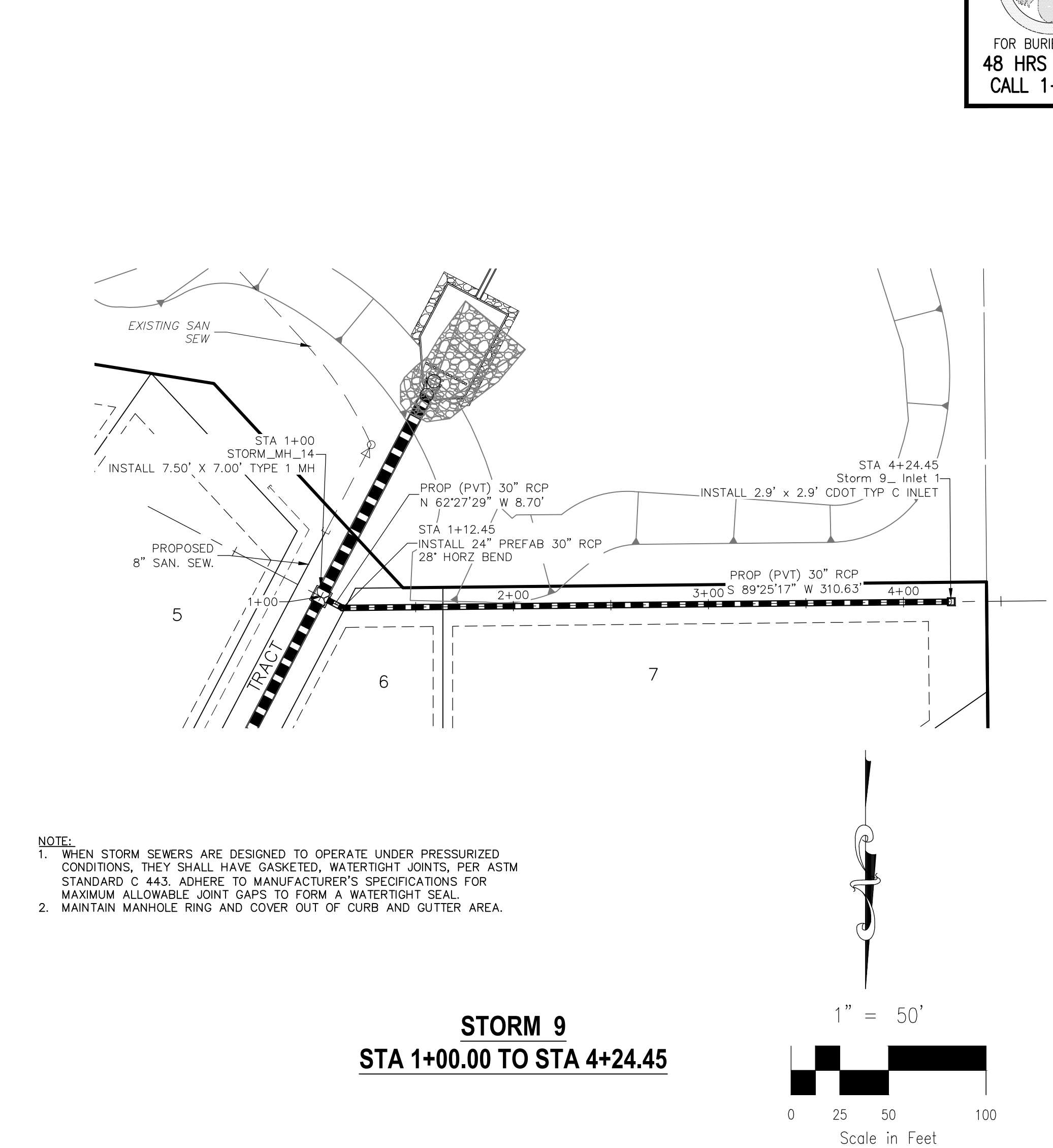
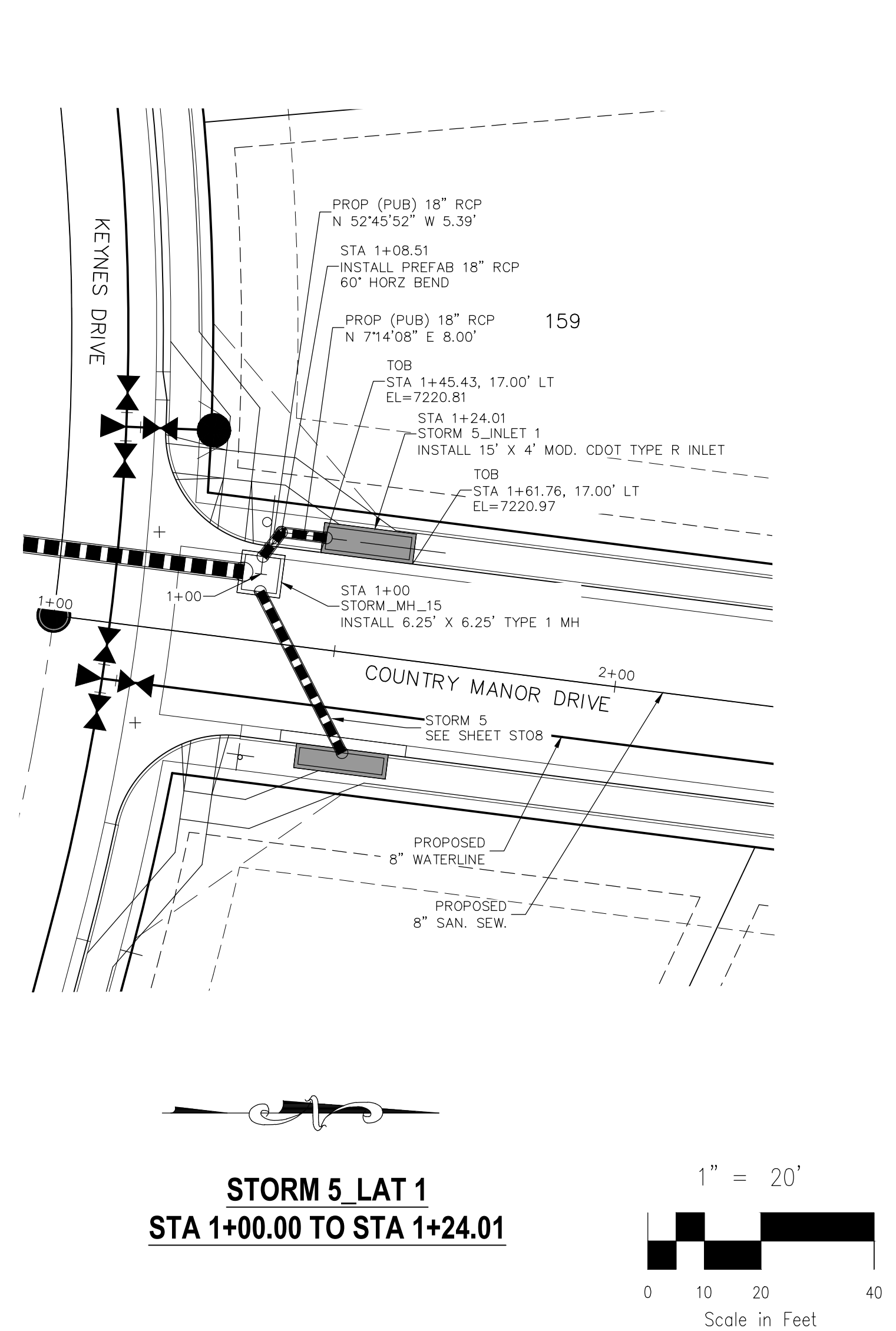
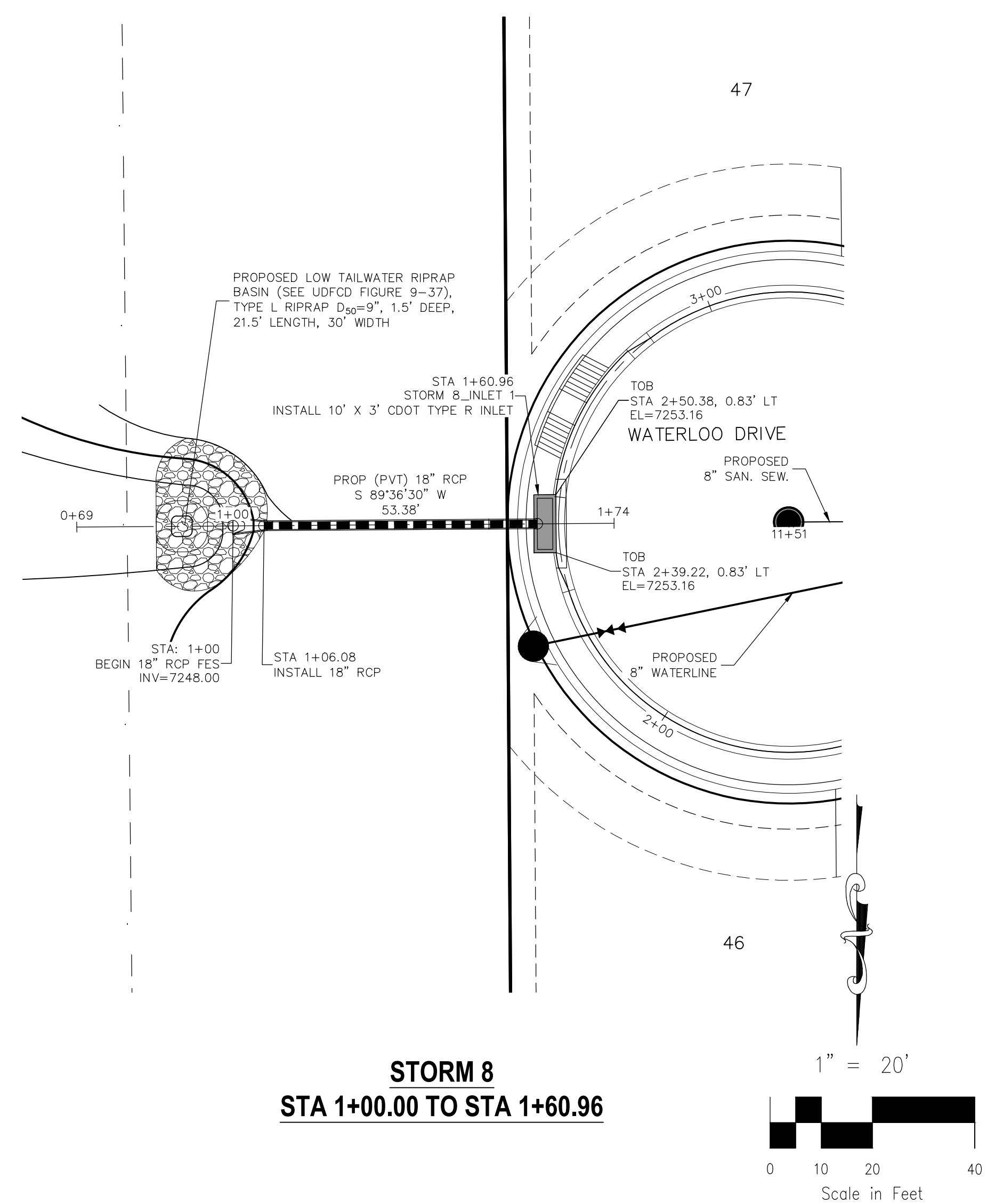
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 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

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 M&S CIVIL CONSULTANTS, INC.

 VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

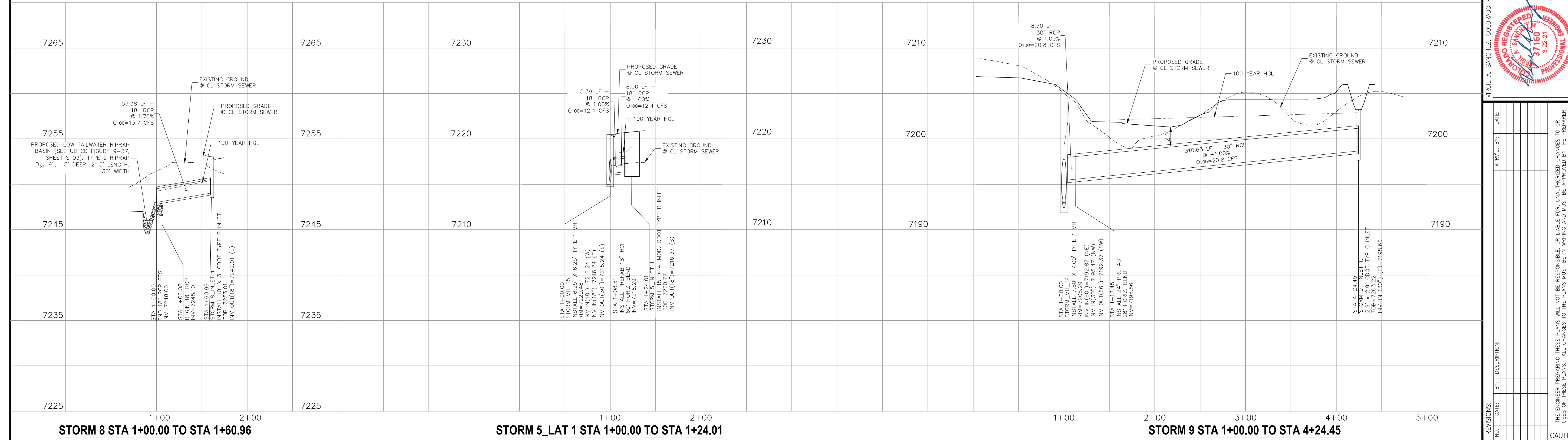
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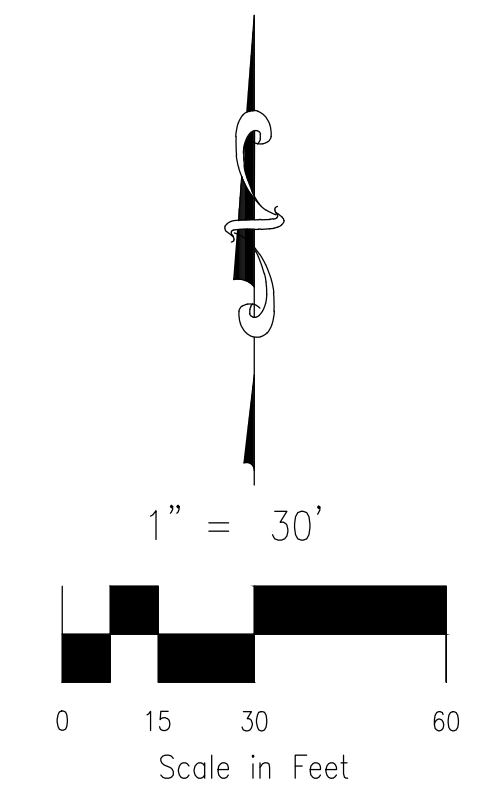
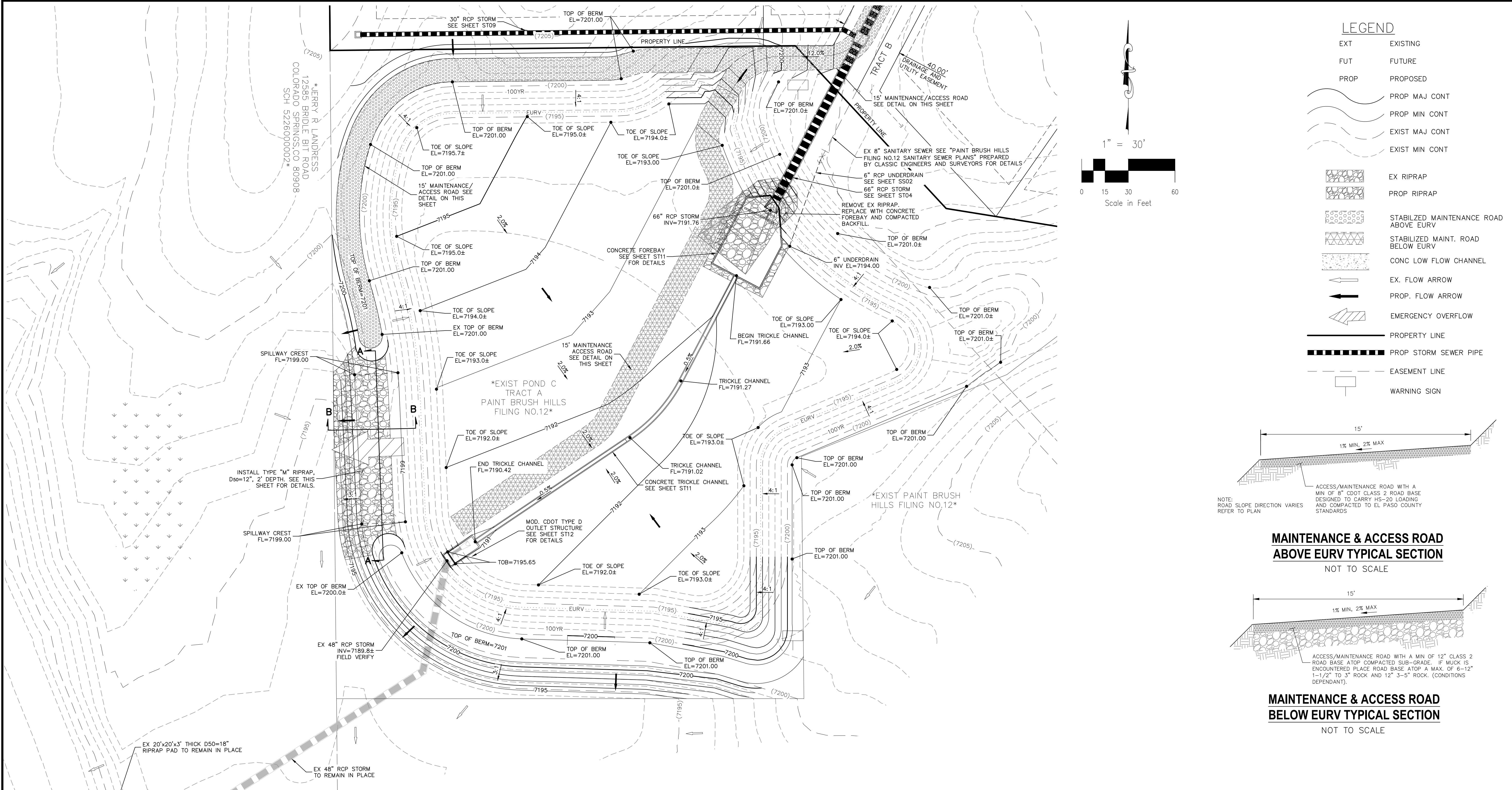
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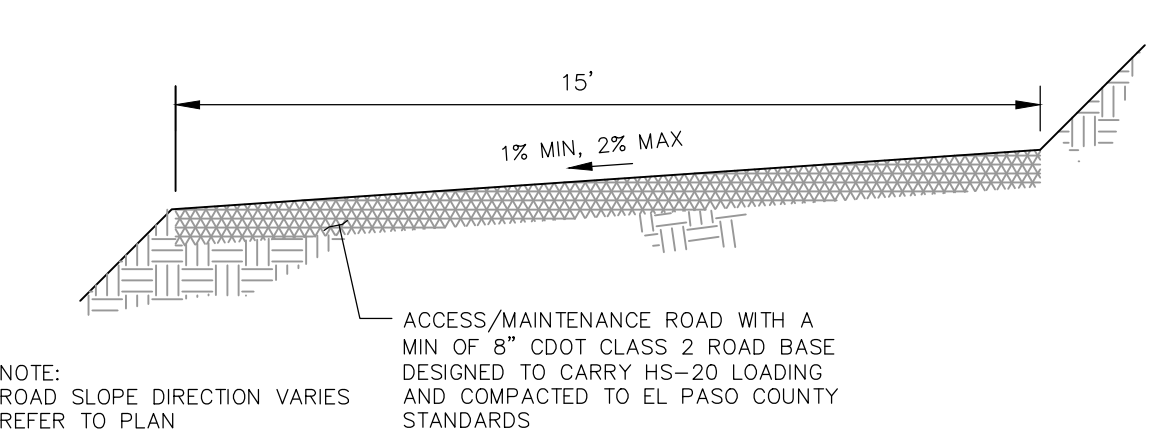
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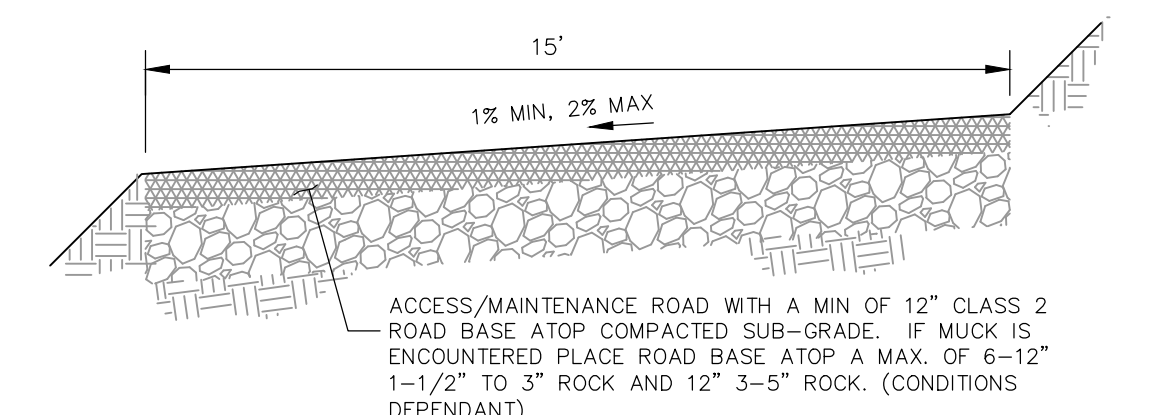
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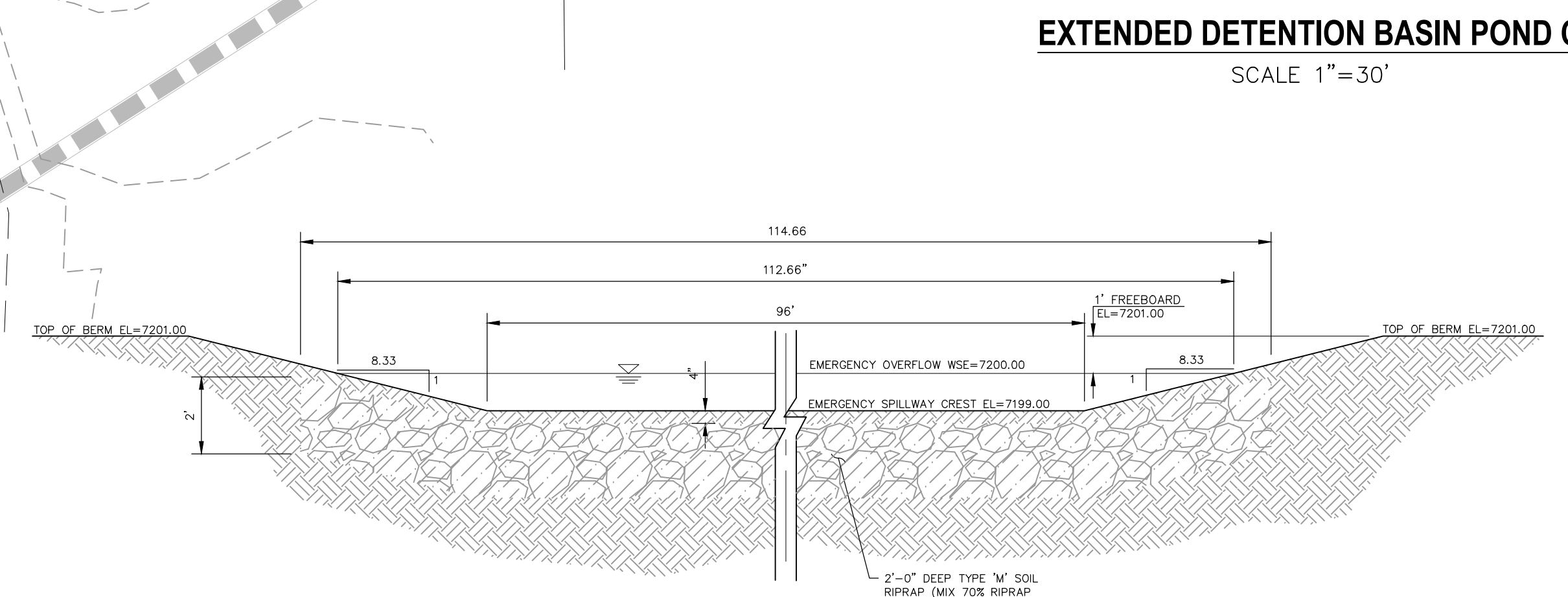
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- EXT EXISTING
 - FUT FUTURE
 - PROP PROPOSED
 - PROP MAJ CONT
 - PROP MIN CONT
 - EXIST MAJ CONT
 - EXIST MIN CONT
 - EX RIPRAP
 - PROP RIPRAP
 - STABILIZED MAINTENANCE ROAD ABOVE EURV
 - STABILIZED MAINT. ROAD BELOW EURV
 - CONC LOW FLOW CHANNEL
 - EX. FLOW ARROW
 - PROP. FLOW ARROW
 - EMERGENCY OVERTFLOW
 - PROPERTY LINE
 - PROP STORM SEWER PIPE
 - EASEMENT LINE
 - WARNING SIGN



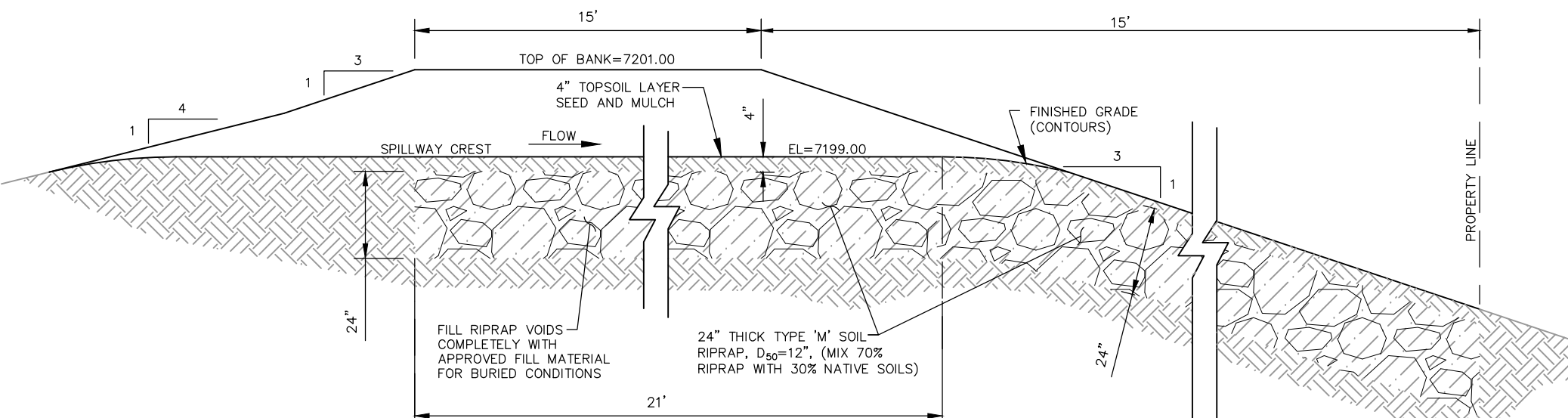
MAINTENANCE & ACCESS ROAD ABOVE EURV TYPICAL SECTION
NOT TO SCALE



MAINTENANCE & ACCESS ROAD BELOW EURV TYPICAL SECTION
NOT TO SCALE

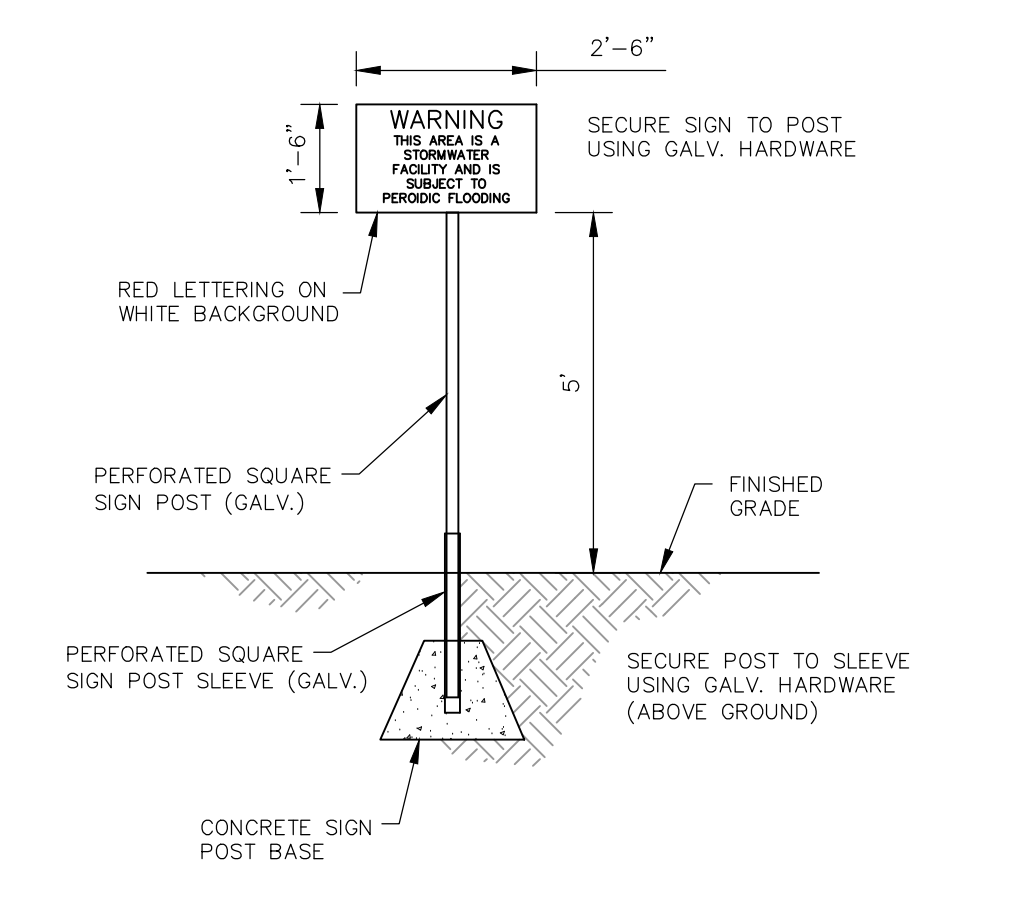


SECTION A-A



SECTION B-B

POND C EMERGENCY SPILLWAY
NOT TO SCALE



POND WARNING SIGN
NOT TO SCALE

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987

PAINT BRUSH HILLS FILING NO. 14
EXTENDED DETENTION POND C

PROJECT NO. 10-014
SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A
DATE: 03/19/21
DESIGNED BY: GT
DRAWN BY: CMN
CHECKED BY: VAS

212 N. WASHCATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER
3-22-21

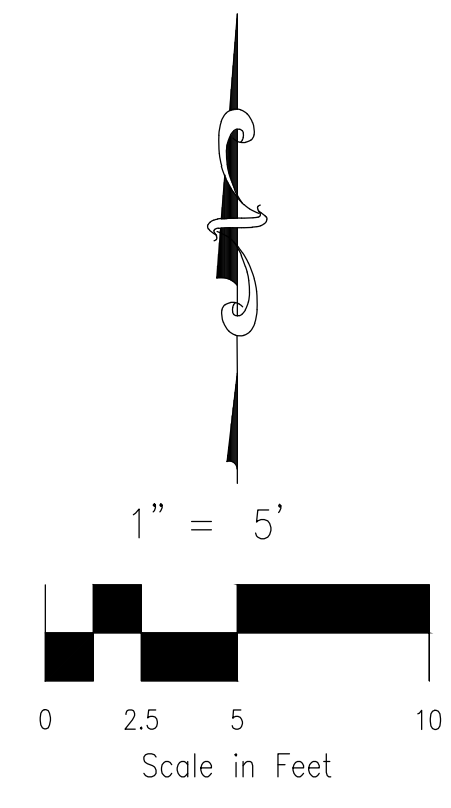
REVISIONS:
NO. DATE BY: DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

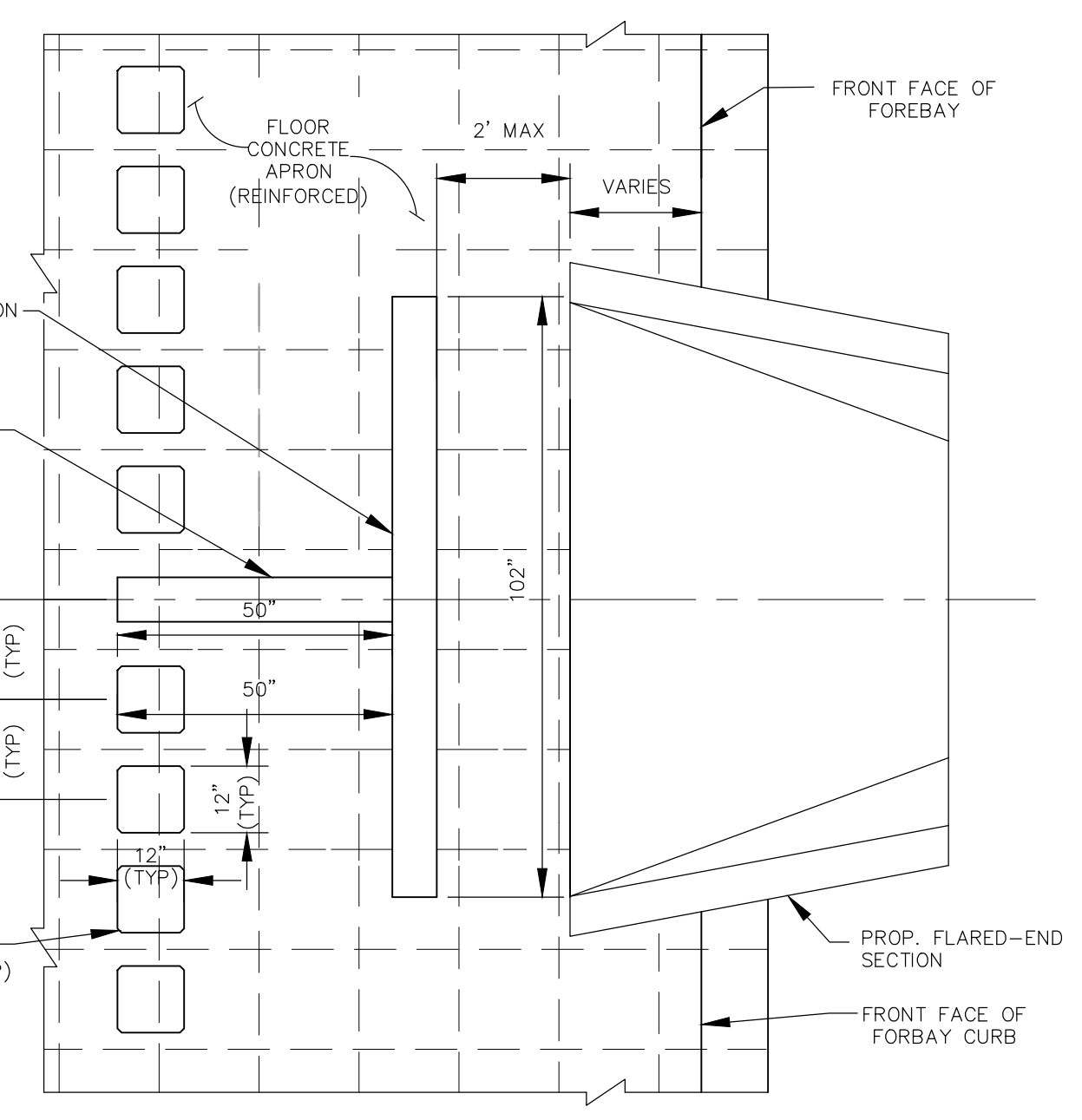
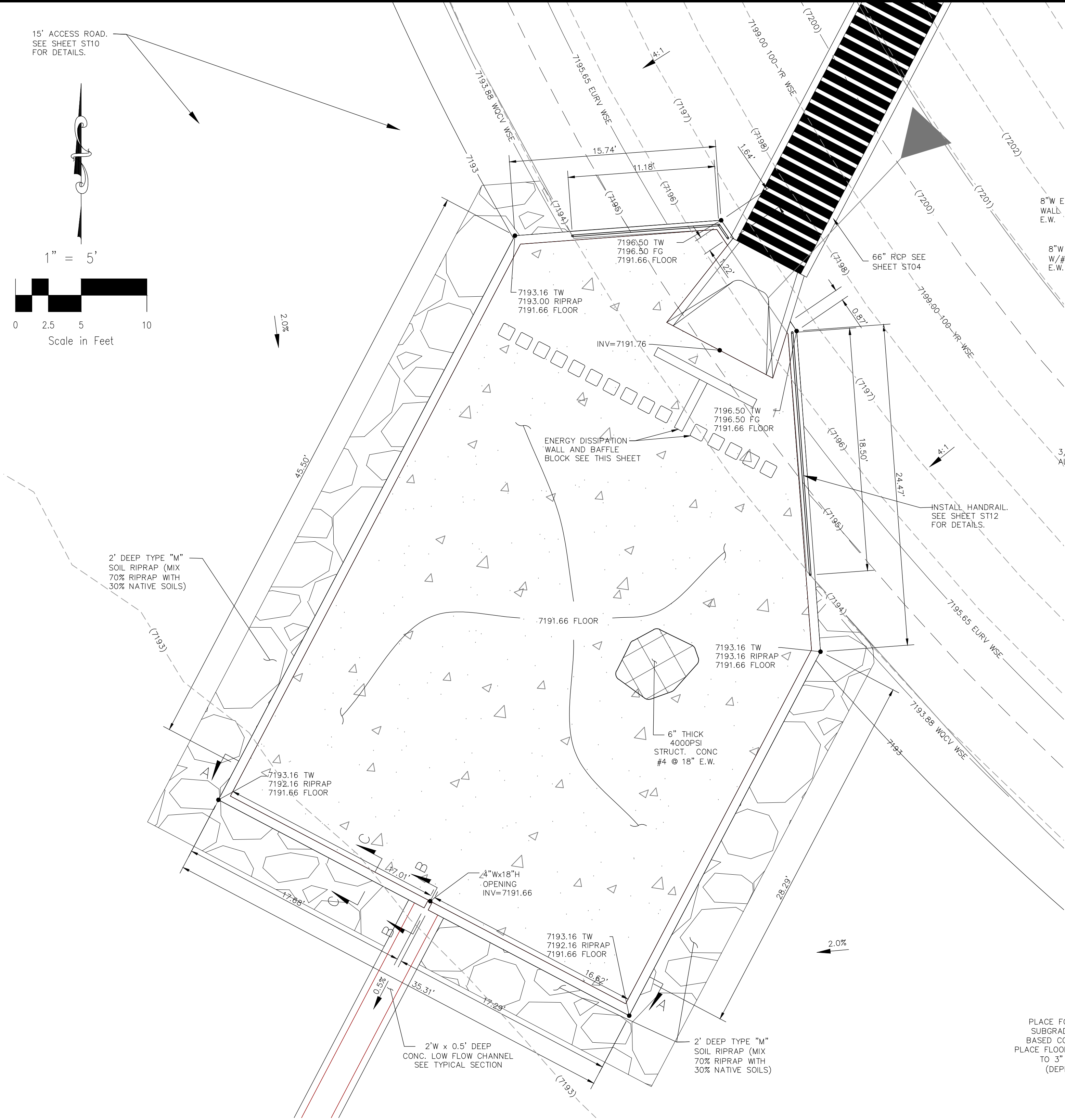
File: C:\Users\lprince\Documents\100144-PBH 14\Proj\Conts_Dwg\System\ST10.dwg Plotstamp: 3/19/2021 2:04 PM

15' ACCESS ROAD. SEE SHEET ST10 FOR DETAILS.

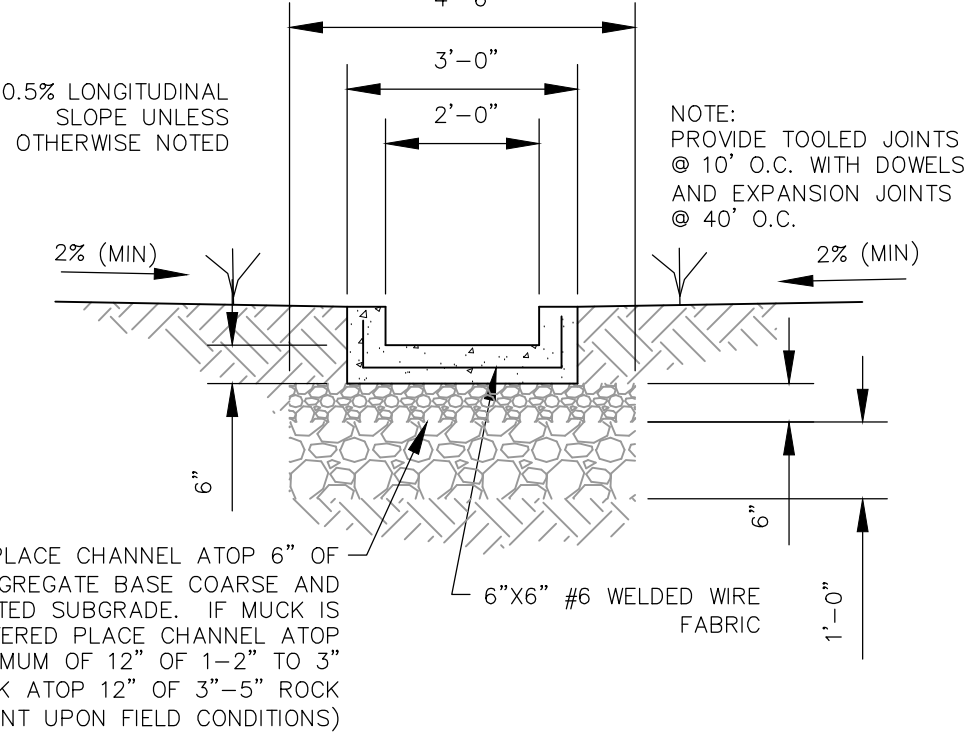


FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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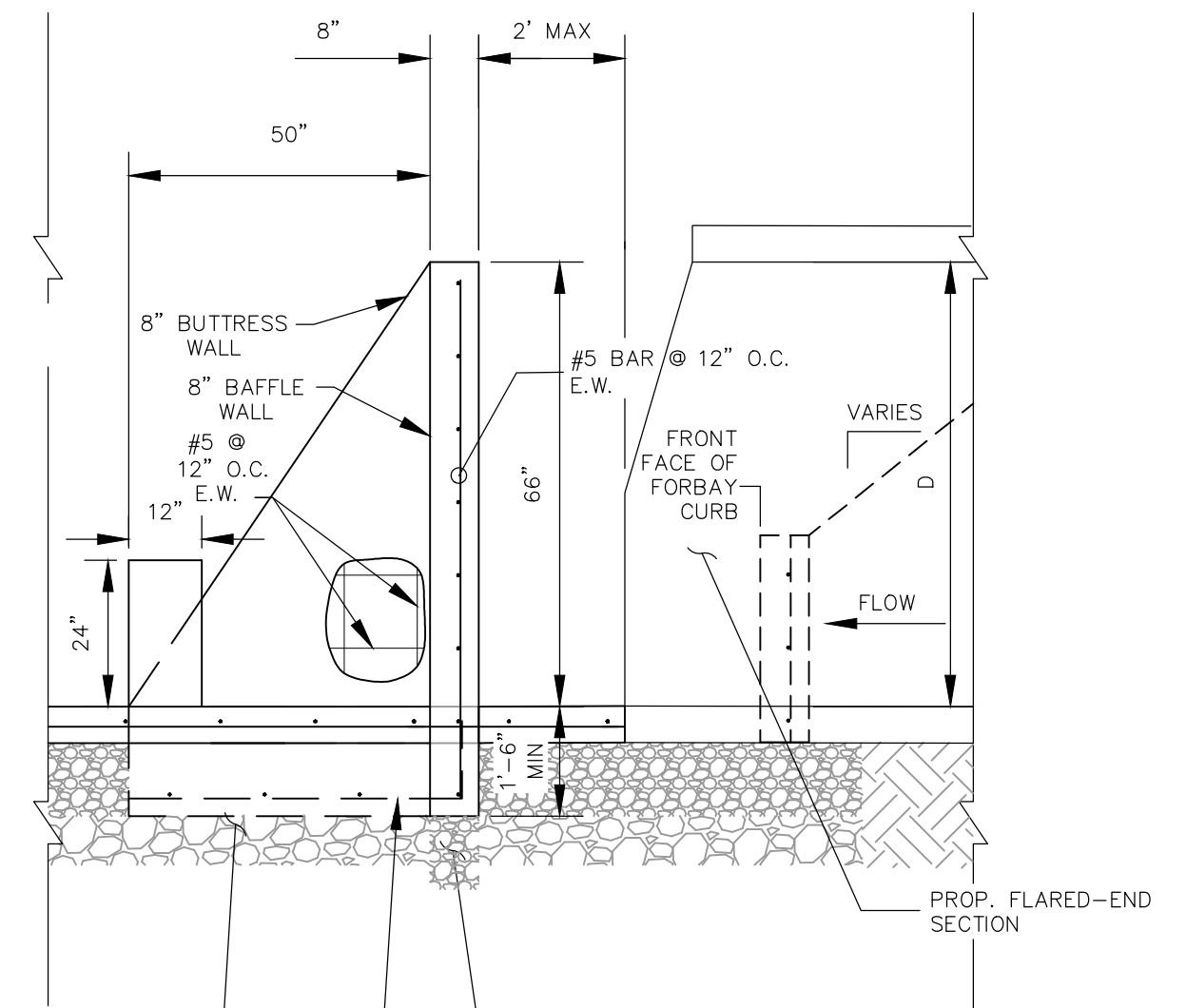
PAIN BRUSH HILLS FILING NO. 14
EXTENDED DET. POND C FOREBAY DETAILS
 PROJECT NO. 10-014
 DATE: 03/19/21
 SCALE: NA
 HORIZONTAL: NA
 VERTICAL: NA
 DESIGNED BY: GT
 DRAWN BY: CMN
 CHECKED BY: VAS
 SHEET 29 OF 30
ST11



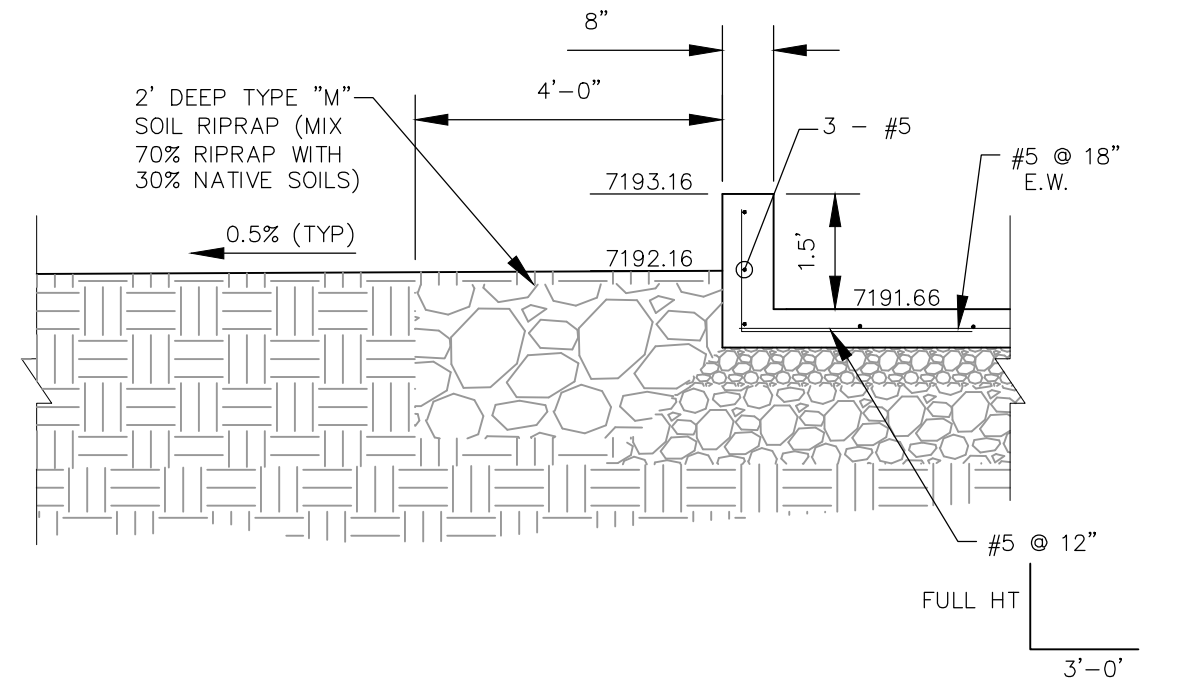
ENERGY DISSIPATION DETAILS
NOT TO SCALE



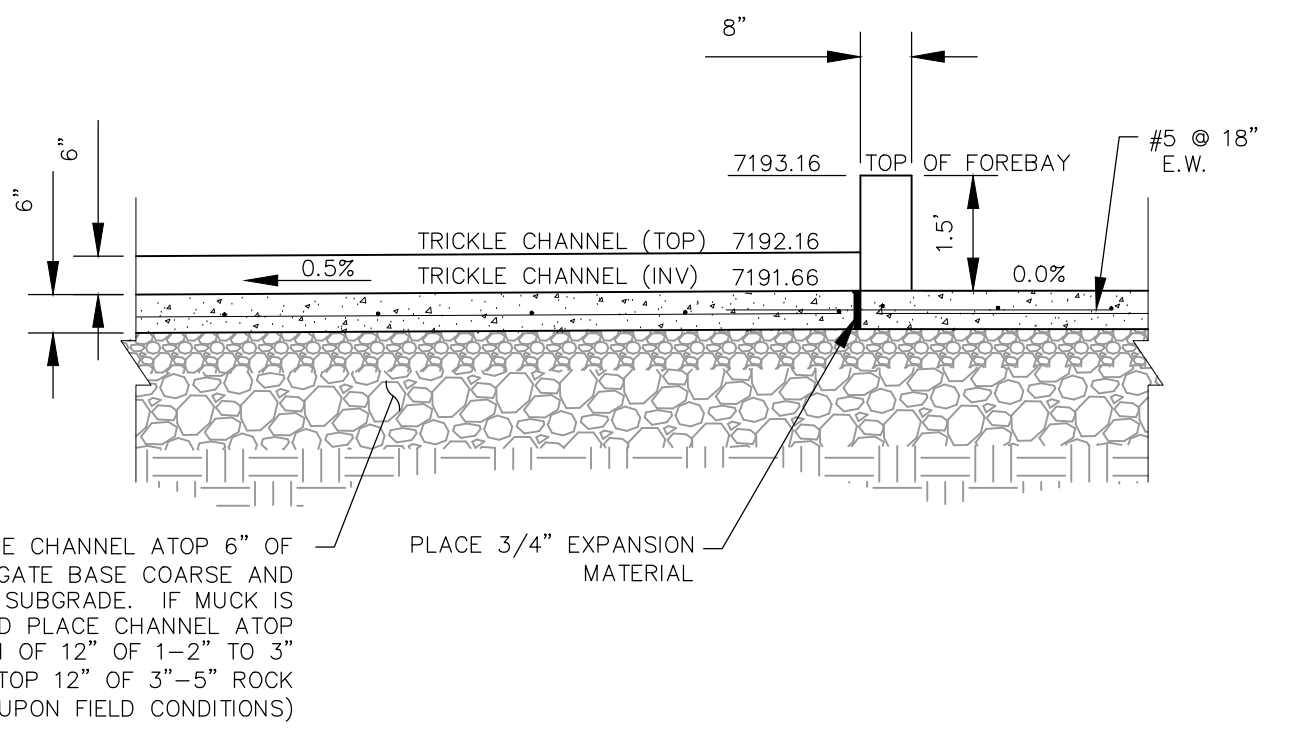
LOW FLOW CHANNEL TYPICAL SECTION
NOT TO SCALE



ENERGY DISSIPATION DETAILS
NOT TO SCALE

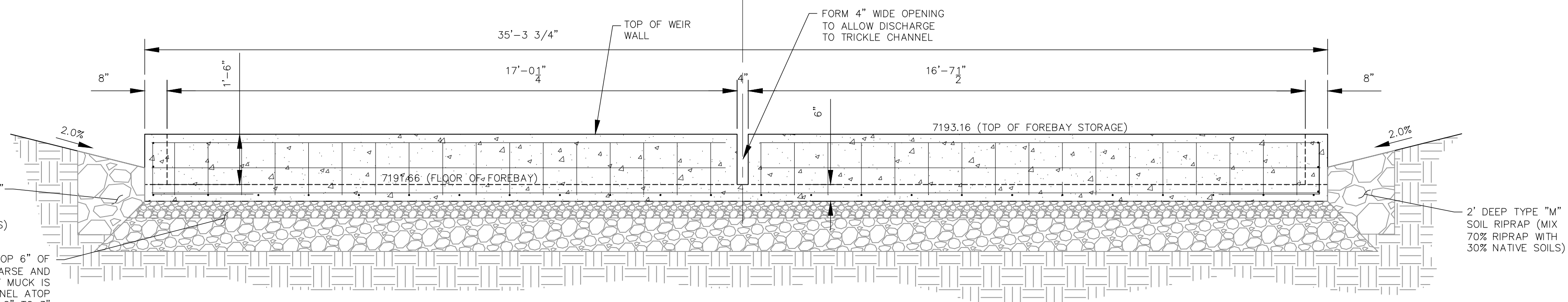


RIPRAP GRADING BELOW POND C FOREBAY SECTION C-C
NOT TO SCALE



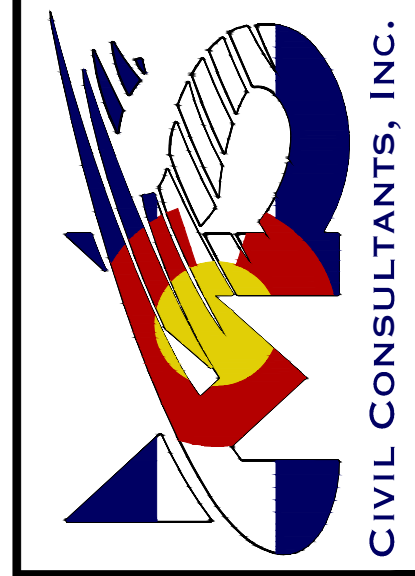
LOW FLOW CHANNEL POND C SECTION B-B
NOT TO SCALE

EXTENDED DETENTION BASIN POND C FOREBAY
NOT TO SCALE



NORTH FOREBAY FRONT WALL W/NOTCH SECTION A-A
NOT TO SCALE

2121 N. WASHCATCH AVE., STE 203
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485



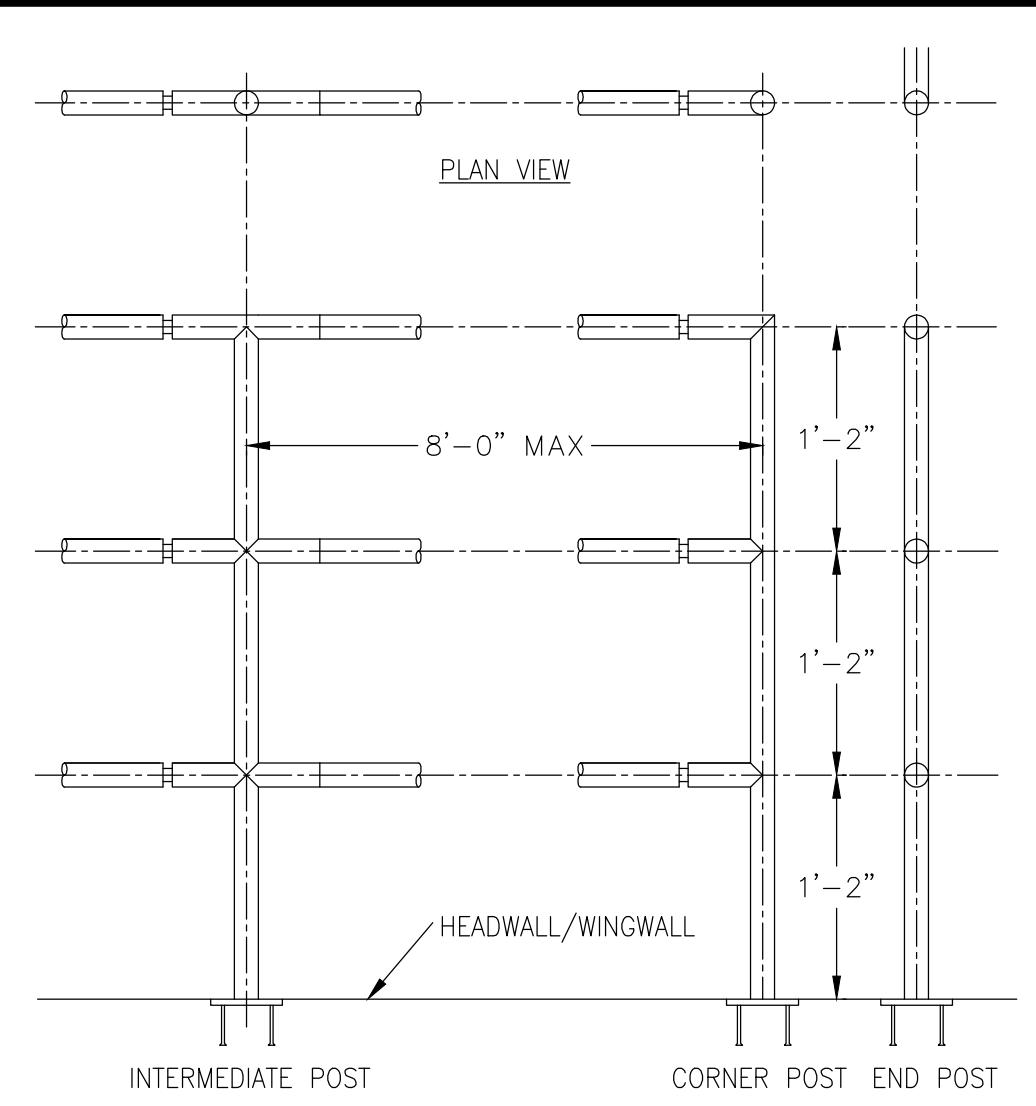
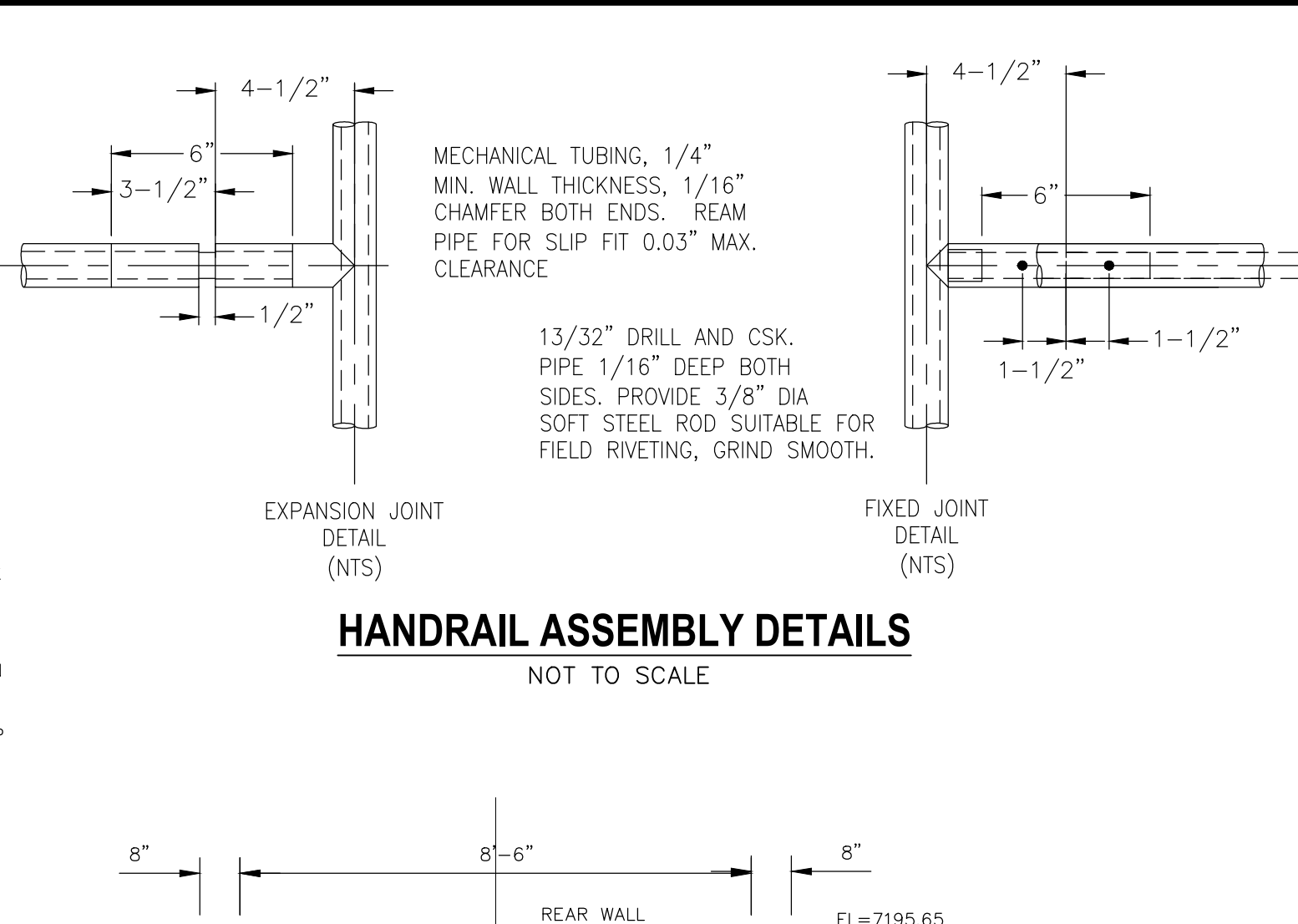
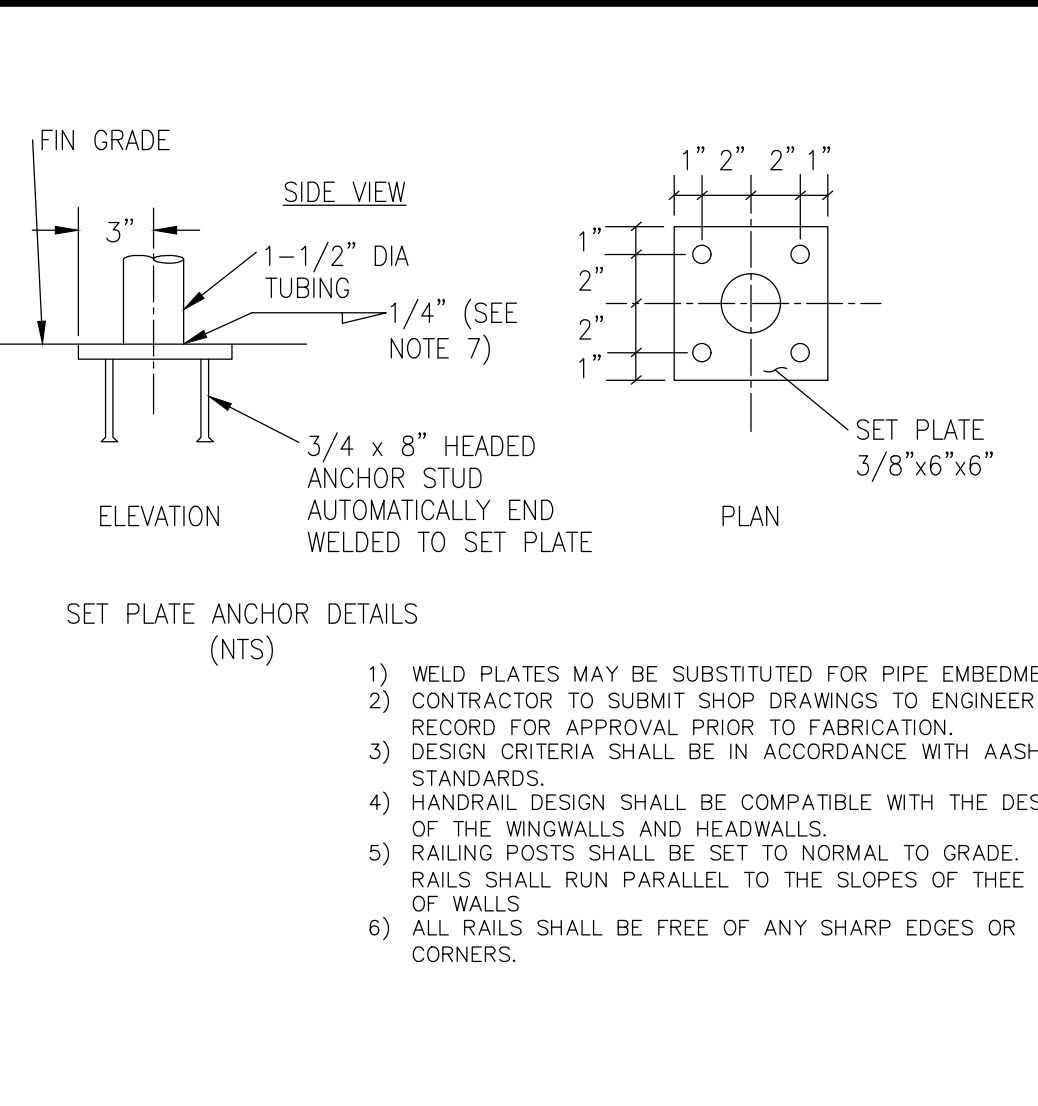
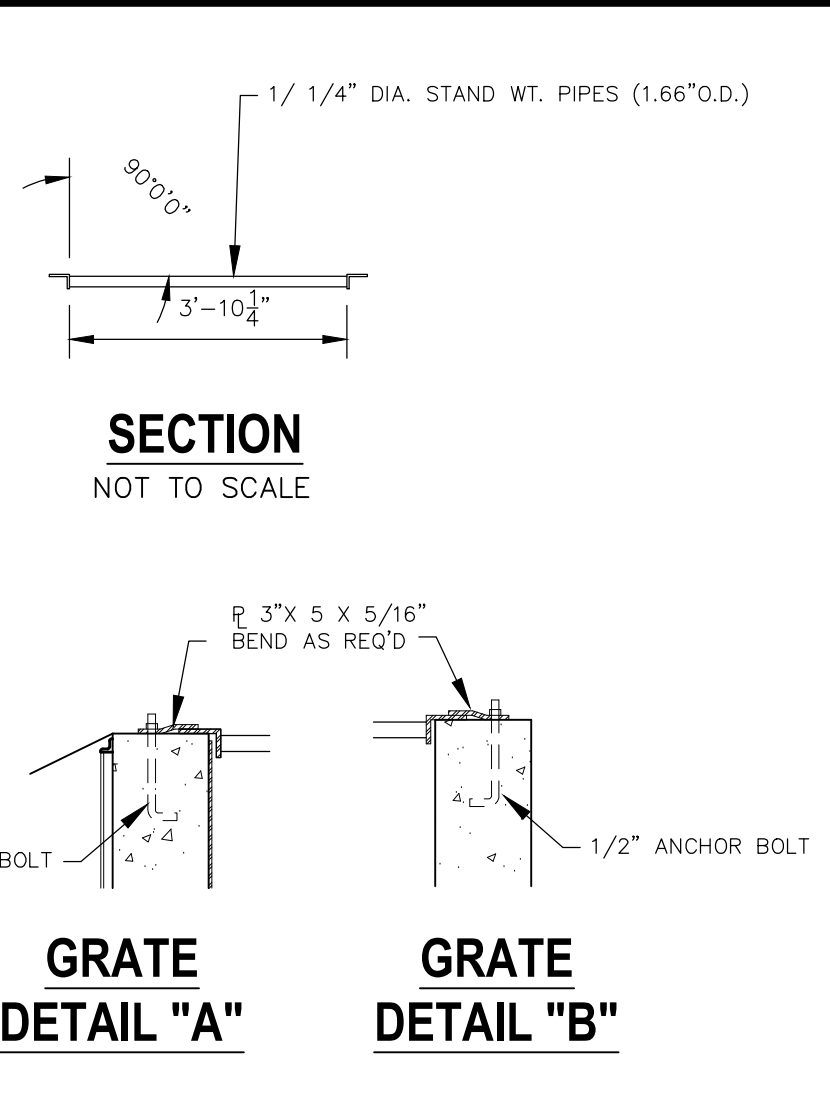
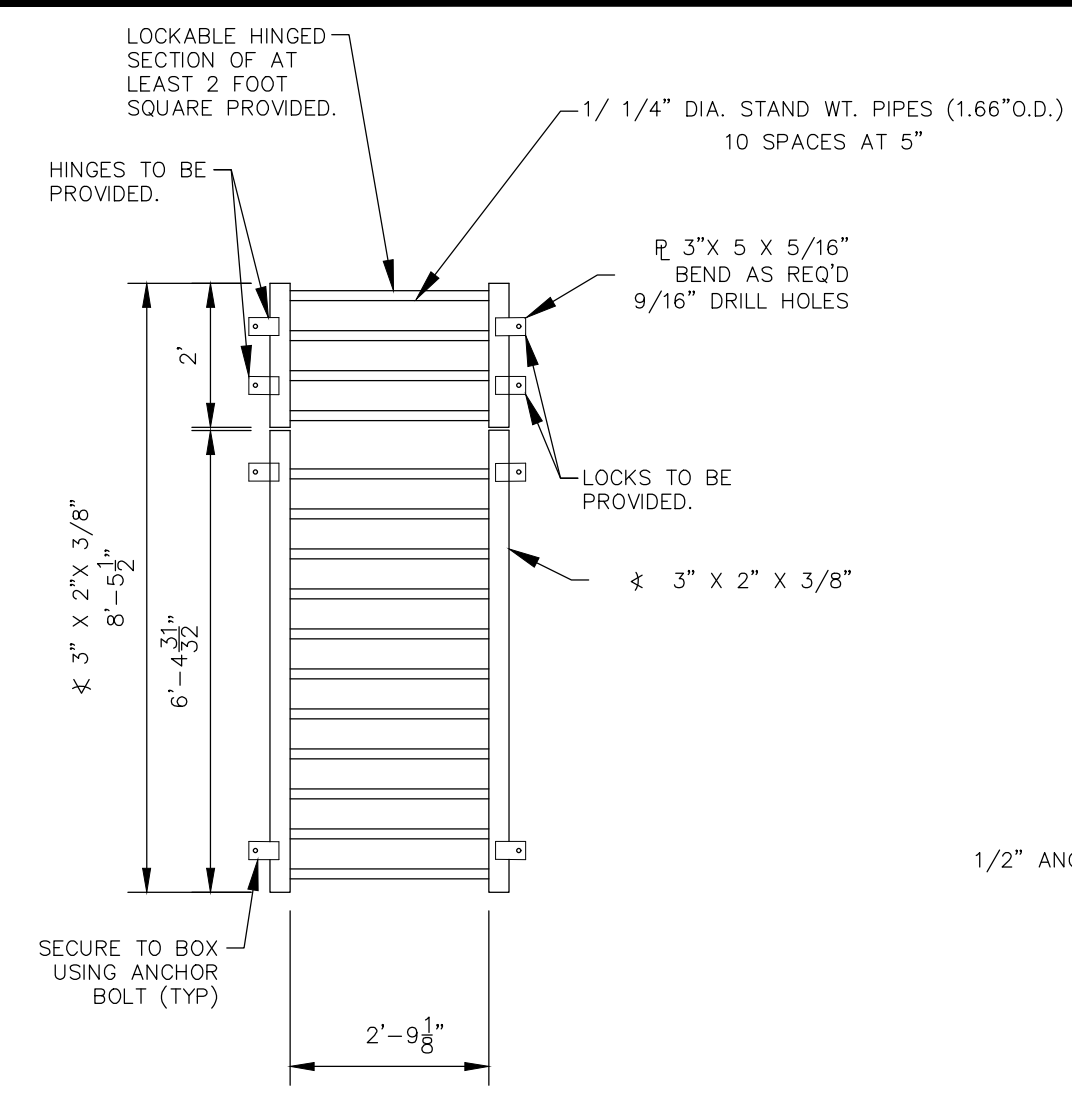
FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.



NO.	DATE	BY	DESCRIPTION

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CAUTION

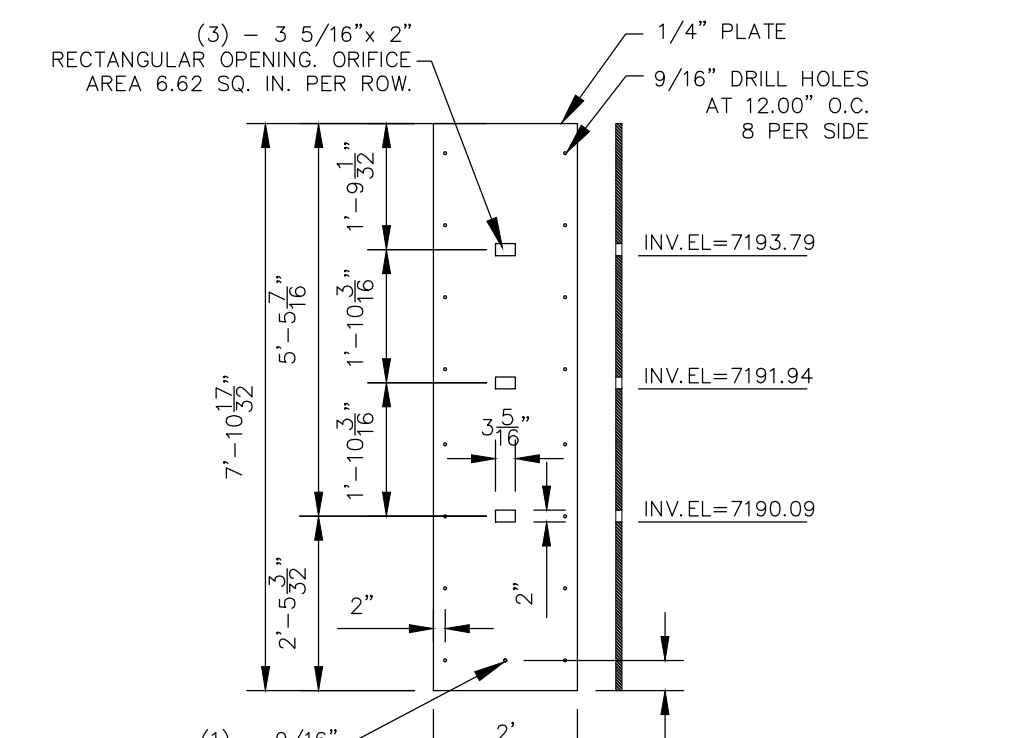
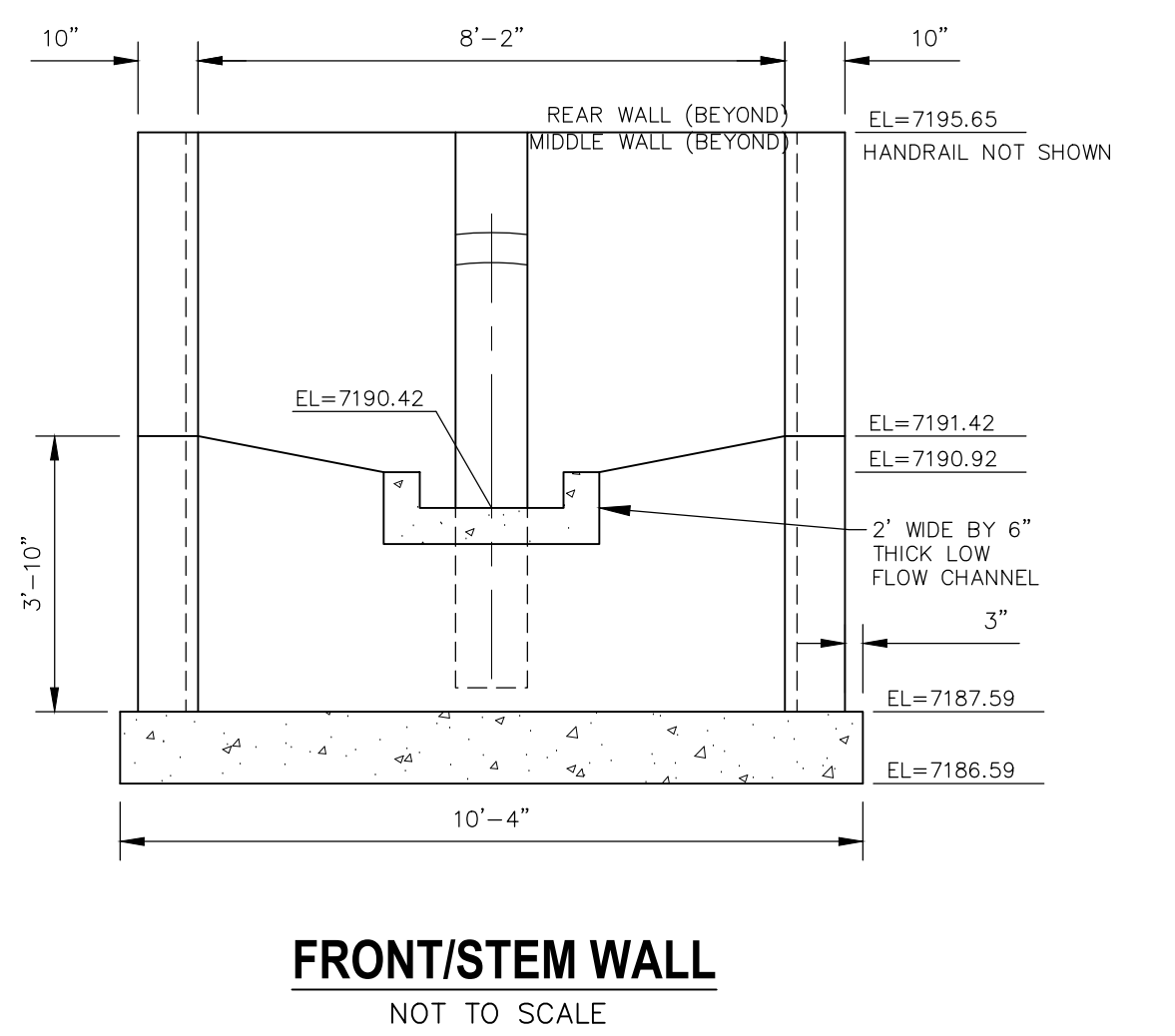
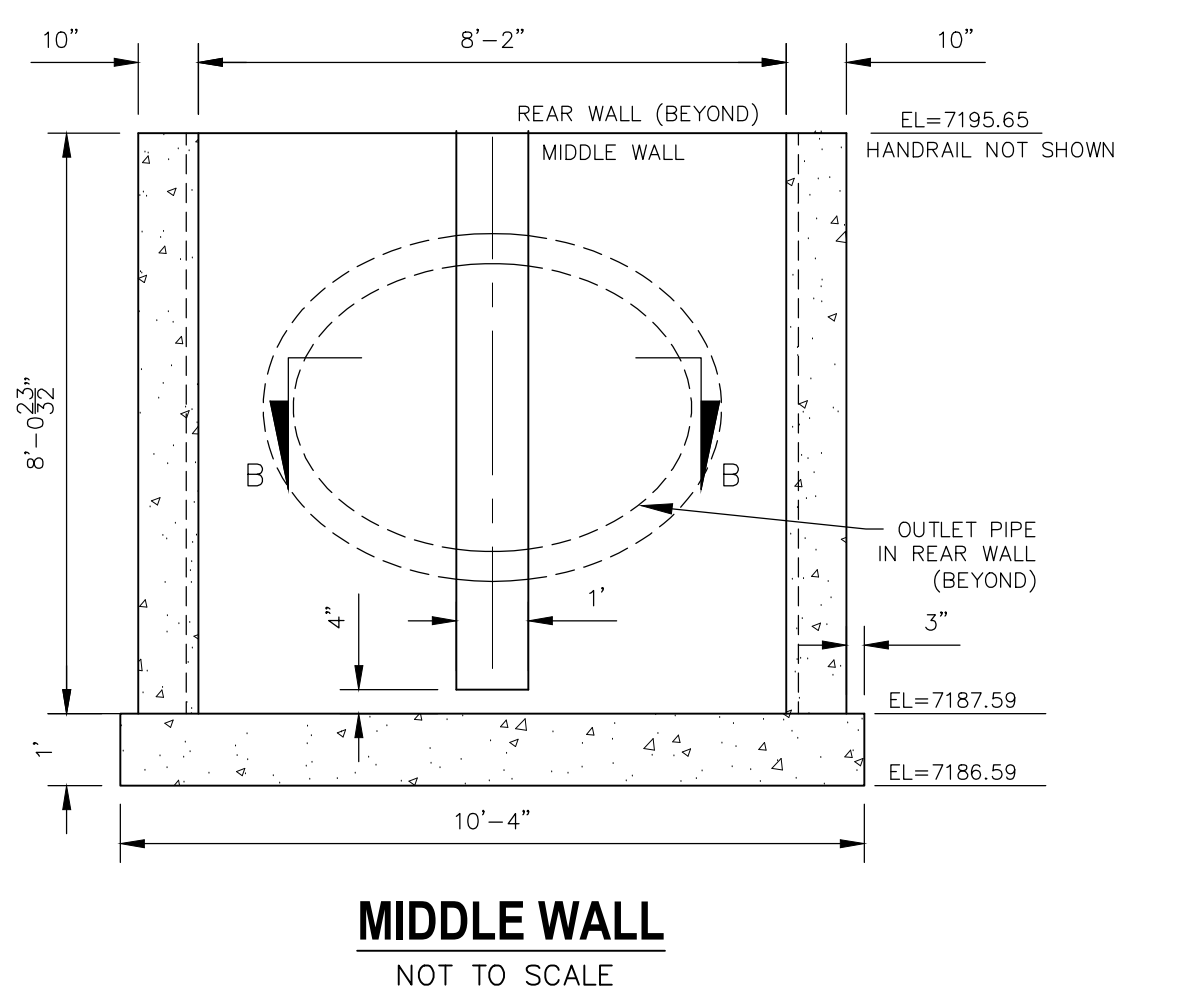
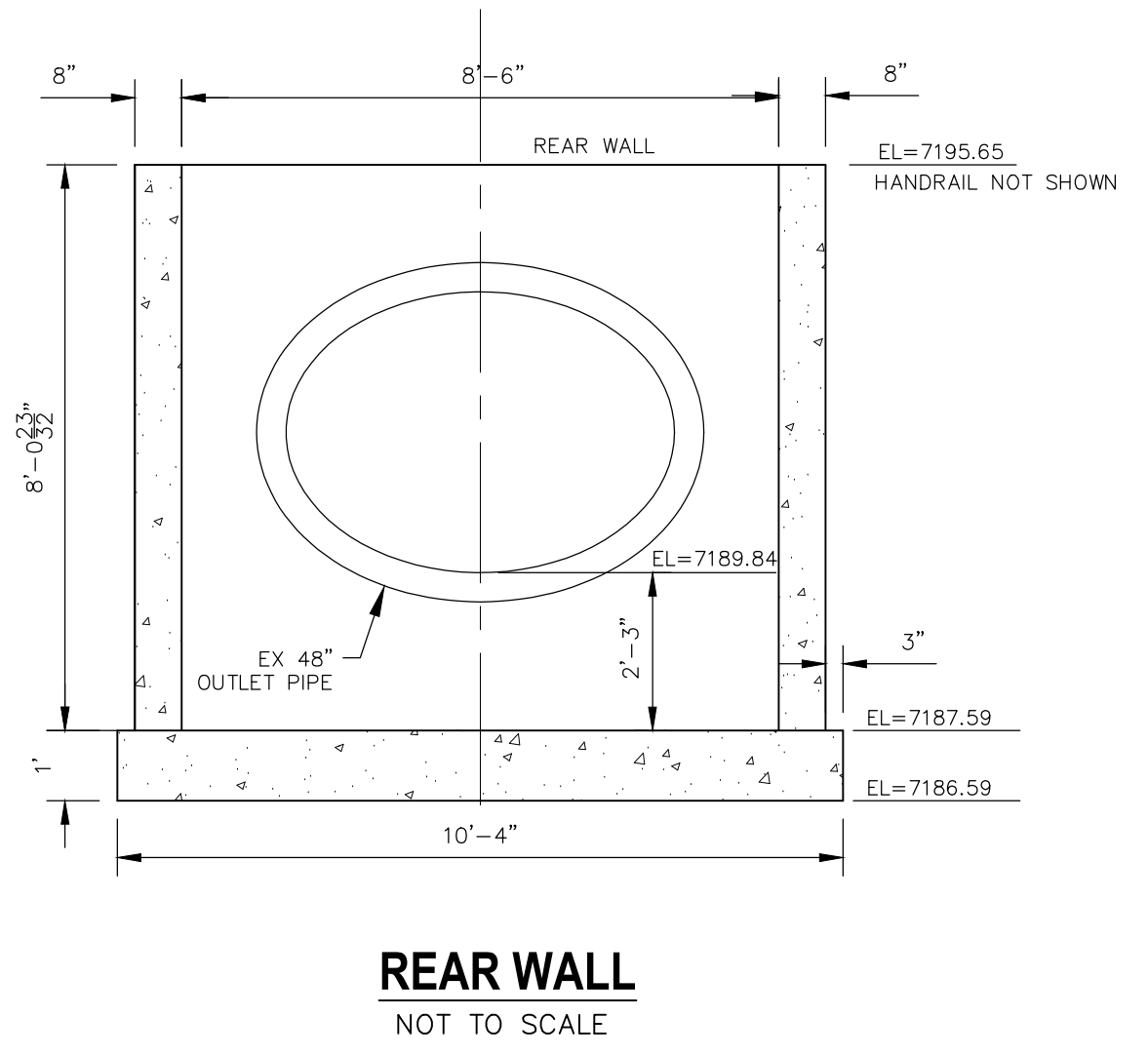


GRATE PLAN
NOT TO SCALE

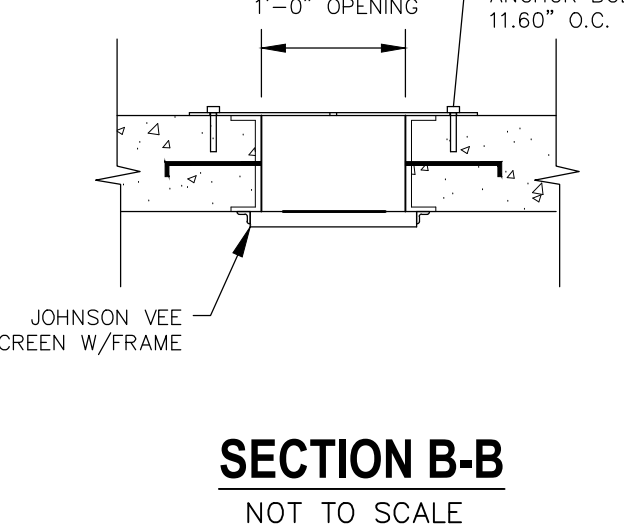
GRATE DETAIL "A"
GRATE DETAIL "B"

HANDRAIL ASSEMBLY DETAILS
NOT TO SCALE

REAR WALL
NOT TO SCALE

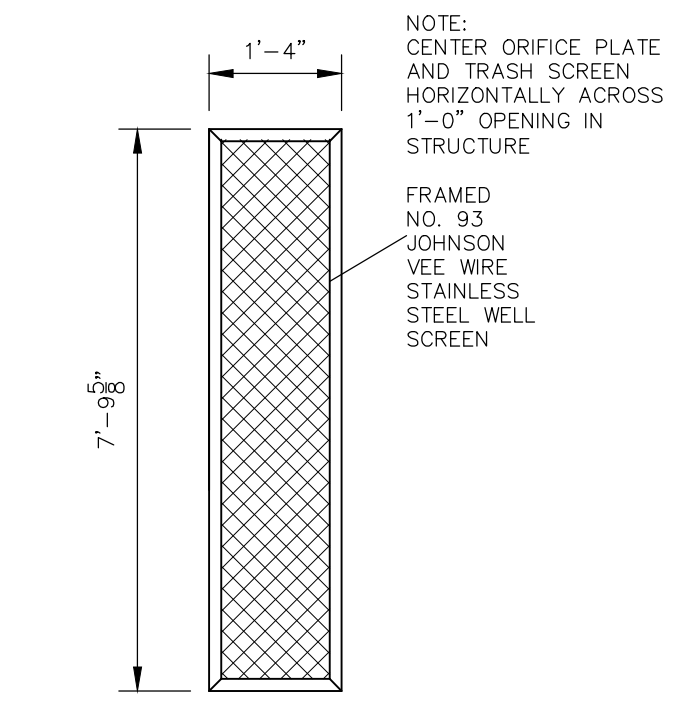


ORIFICE PLATE
NOT TO SCALE

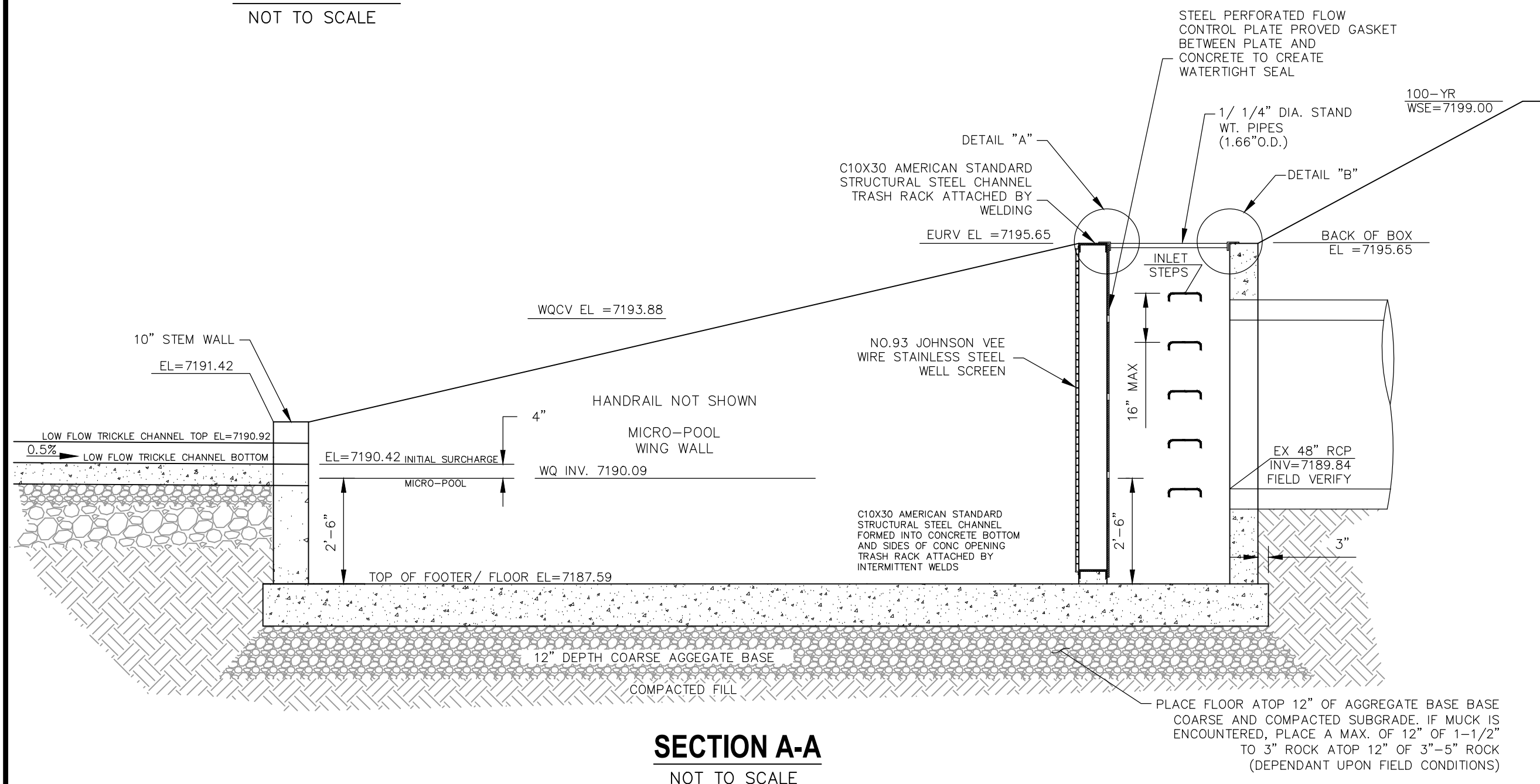


SECTION B-B
NOT TO SCALE

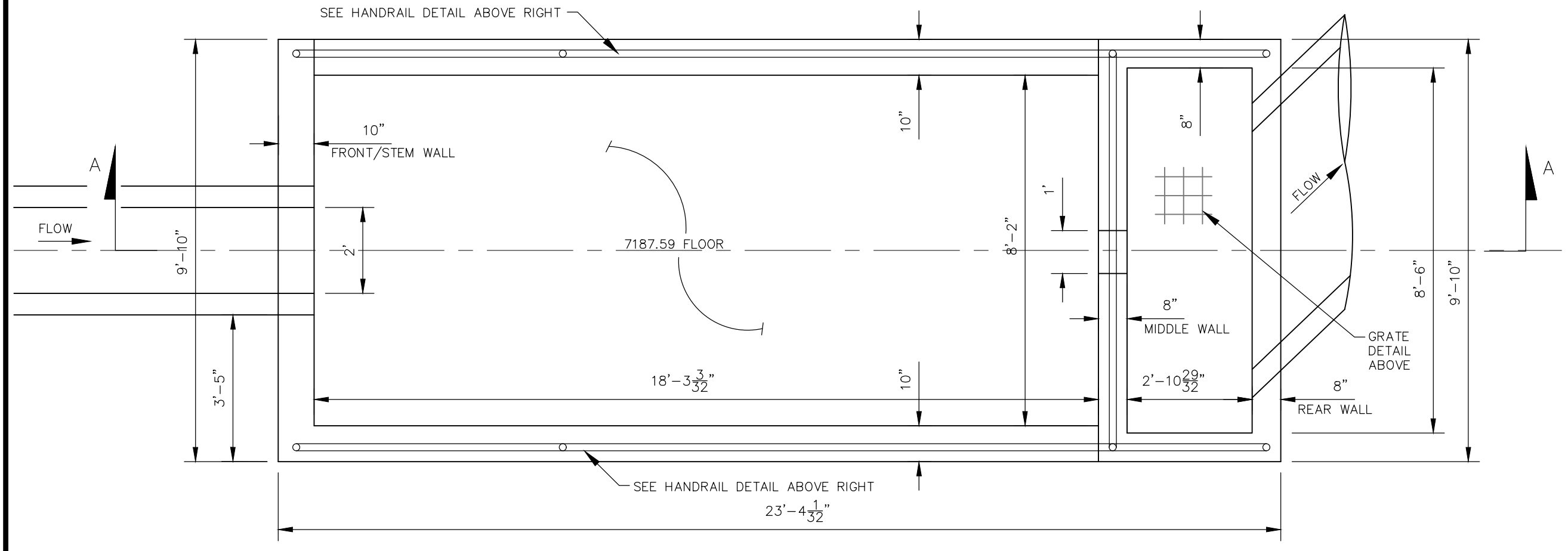
NOTE:
ALL GRATES, SCREENS, IMBEDS AND FASTENERS SHALL BE FABRICATED USING GALVANIZED STEEL, UNLESS OTHERWISE NOTED.
ALL GRATE DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION. ALL GRATE MATERIAL SHALL BE GALVANIZED.



TRASH SCREEN DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE



POND 1 WATER QUALITY OUTLET STRUCTURE
NOT TO SCALE

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987

NO.	DATE	BY	DESCRIPTION

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CAUTION

File: C:\Users\lprince\Documents\100144-PBH-14\Drawings\Civil\Drawings\ST12.dwg Plot Date: 3/19/2021 2:05 PM

GENERAL NOTES

- 1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES...
2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION...

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT...

BENCHMARKS

- 1. SOUTH 1/4 CORNER OF SECTION 26, TOP OF 2 1/2" ALUMINUM CAP. ELEV. = 7140.91 VERTICAL DATUM = NGVD 1929
2. SOUTHWEST CORNER OF SECTION 25, TOP OF 3 1/2" ALUMINUM CAP. ELEV. = 7136.34 VERTICAL DATUM = NGVD 1929

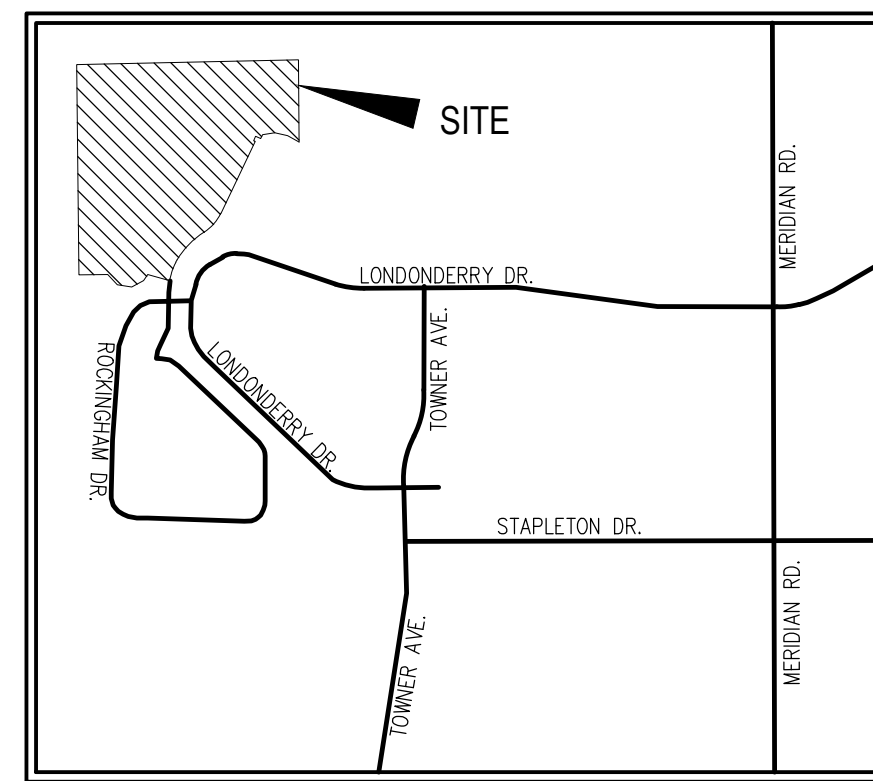
BASIS OF BEARINGS:

THE NORTH LINE OF SAID TRACT E, SAID LINE ALSO BEING THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE NORTHWEST CORNER WITH A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AND AT THE NORTHEAST CORNER WITH A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842". SAID LINE IS ASSUMED TO BEAR N88°44'51"E A DISTANCE OF 2640.24 FEET. THE UNIT OF MEASUREMENT IS U.S. SURVEY FEET.

NOTE:

THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL TIE-IN/CONNECTIONS TO EXISTING MANHOLES AND/OR STUBS PRIOR TO CONSTRUCTION. ANY DISCREPANCY TO THE ANTICIPATED/PREVIOUSLY MEASURED ELEVATIONS PROVIDED ON THE PLANS SHALL BE CONVEYED TO THE ENGINEER AND A RESOLVE REACHED PRIOR TO INSTALLATION.

PAINT BRUSH HILLS FILING NO. 14
COUNTY OF EL PASO, STATE OF COLORADO
UTILITY PLANS
MARCH 2021



SHEET INDEX

Table listing sheet numbers, titles, and stationing for various utility services including Sanitary Sewer, Water System Plan, and Utility Service Plan.

UNDERDRAIN NOTE:

UNDERDRAIN SYSTEMS SHALL BE INSTALLED. THE SOILS/GEOTECH REPORT RECOMMENDS SUBSURFACE FOUNDATION DRAINAGE SYSTEM, THEREFORE THE UNDERDRAIN SYSTEM IS REQUIRED.

AGENCIES

- OWNER/DEVELOPER: THE LANDHUIS COMPANY, 212 N. WAHSATCH AVE., SUITE 301, COLORADO SPRINGS, CO 80903
CIVIL ENGINEER: M & S CIVIL CONSULTANTS, INC., 20 BOULDER CRESCENT, SUITE 110, COLORADO SPRINGS, CO 80903
COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT, 2880 INTERNATIONAL CIRCLE, SUITE 110, COLORADO SPRINGS, CO 80910

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS...

VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
3-22-21 DATE

OWNER/DEVELOPER STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS IN THESE DETAILED PLANS AND SPECIFICATIONS

MR. JEFF MARK
THE LANDHUIS COMPANY, PRESIDENT
212 N. WAHSATCH AVE., SUITE 301
COLORADO SPRINGS, CO 80903
3-22-21 DATE

PAINT BRUSH HILLS METROPOLITAN DISTRICT:

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR SANITARY SEWER, WATER MAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF PAINT BRUSH HILLS METRO. DISTRICT
DATE

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE.

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

IN ACCORDANCE WITH THE ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER.

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

FALCON FIRE PROTECTION DISTRICT

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE FALCON FIRE PROTECTION DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FALCON FIRE PROTECTION DISTRICT.

FOR AND ON BEHALF OF FALCON FIRE PROTECTION DISTRICT
DATE



PAINT BRUSH HILLS FILING NO. 14
WATER PLANS
PROJECT NO. 10-014
DATE: 03/19/2021
SCALE: HORIZONTAL: N/A, VERTICAL: N/A
DESIGNED BY: JMP, DRAWN BY: SM, CHECKED BY: GW
SHEET 1 OF 26
WT01

212 N. WAHSATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
M&S CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
M&S CIVIL CONSULTANTS, INC.

Table with columns for REVISIONS (NO., DATE, BY, DESCRIPTION) and a CAUTION notice at the bottom regarding plan changes.

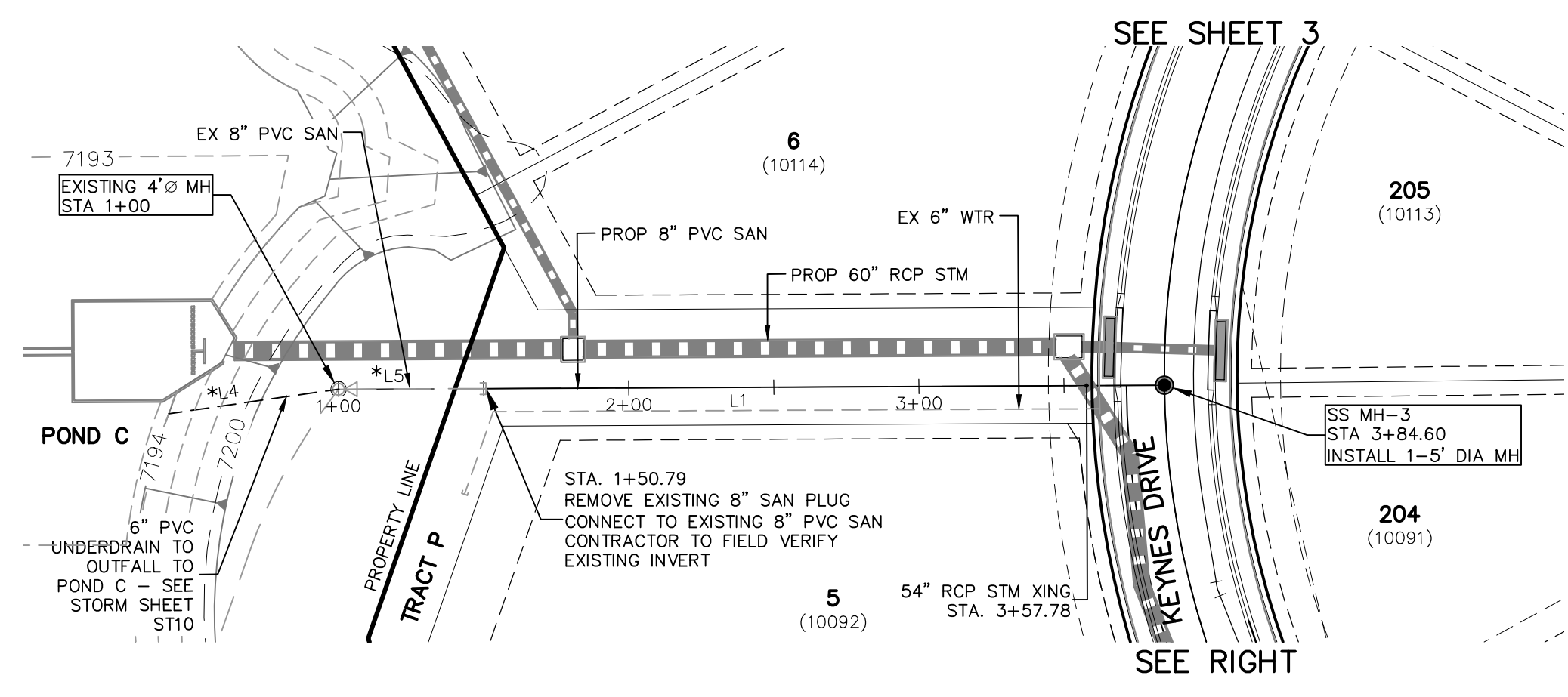
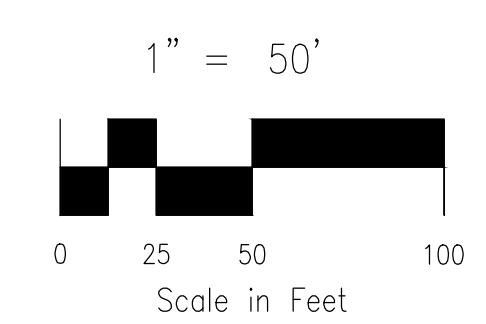
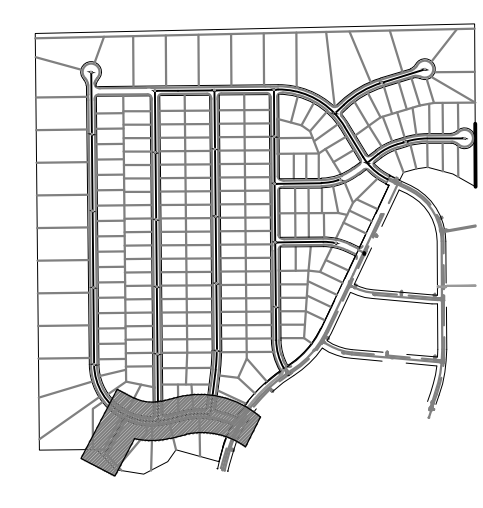
C:\Users\lprince\Documents\100144-PBH 14\DWG\Civil\Sanitary\SS02.dwg Plotstamp: 3/18/2021 3:40 PM

SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L2	86.98	S76°00'00"W
*L4	59.30	S19°45'45"W
*L5	50.68	N27°46'53"E

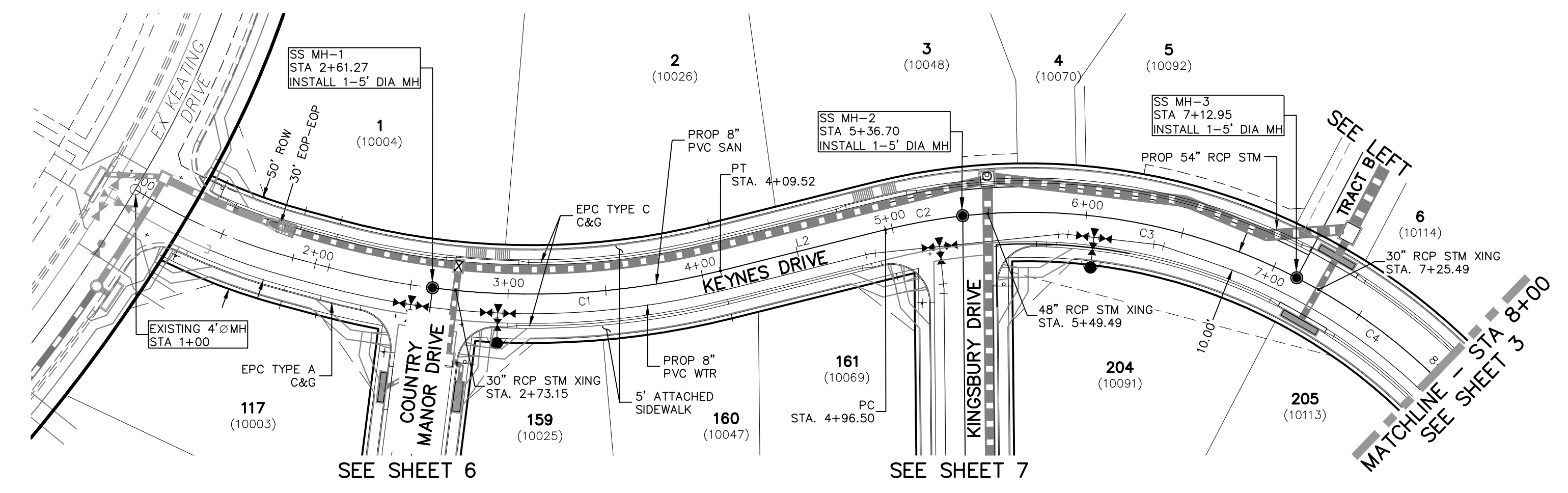
* UNDERDRAIN ONLY

SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	148.25	400.00	21.24
C2	40.20	300.00	7.68
C3	176.24	300.00	33.66

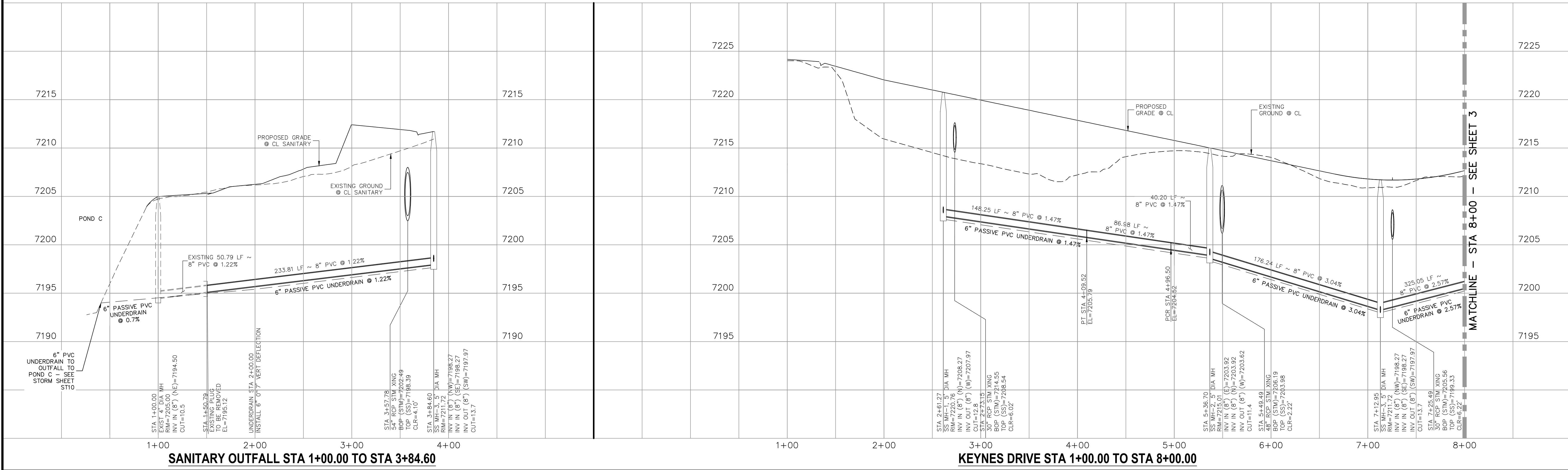
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987



SANITARY OUTFALL
STA 1+00.00 TO STA 3+84.60



KEYNES DRIVE
STA 1+00.00 TO STA 8+00.00



SANITARY OUTFALL STA 1+00.00 TO STA 3+84.60

KEYNES DRIVE STA 1+00.00 TO STA 8+00.00

PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014
DATE: 03/19/2021
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW
SHEET 2 OF 26
SS02

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

NO.	DATE	BY	DESCRIPTION

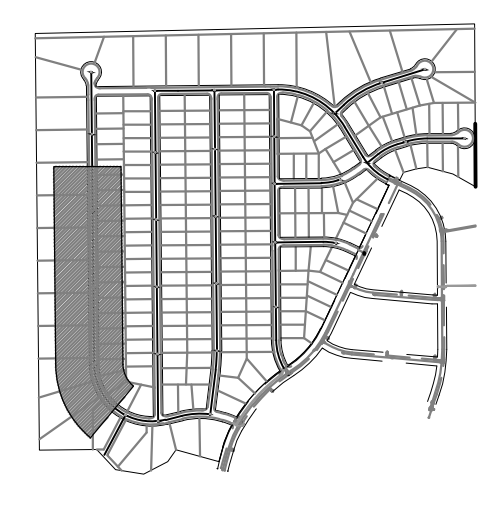
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

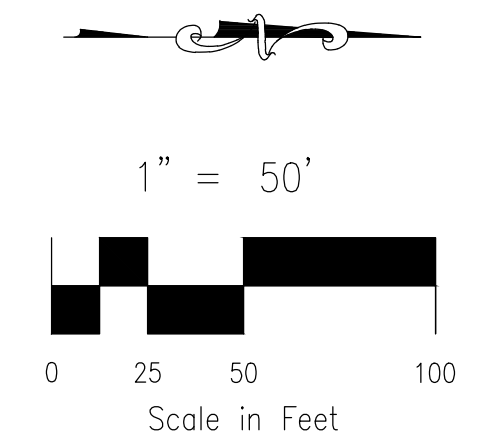
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SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	400.00	N0°35'00"W
L2	400.00	N0°35'00"W
L3	400.00	N0°35'00"W

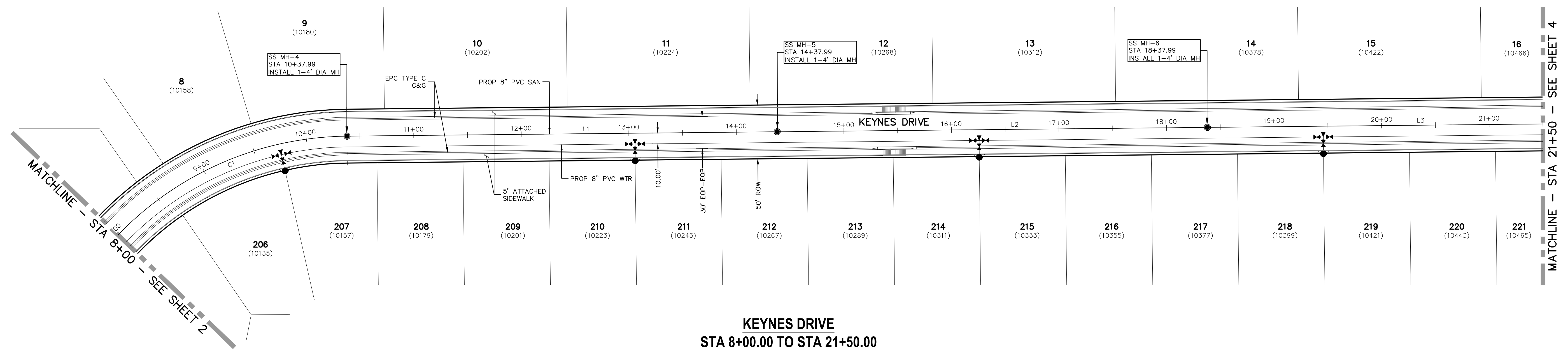
SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	325.05	300.00	62.08



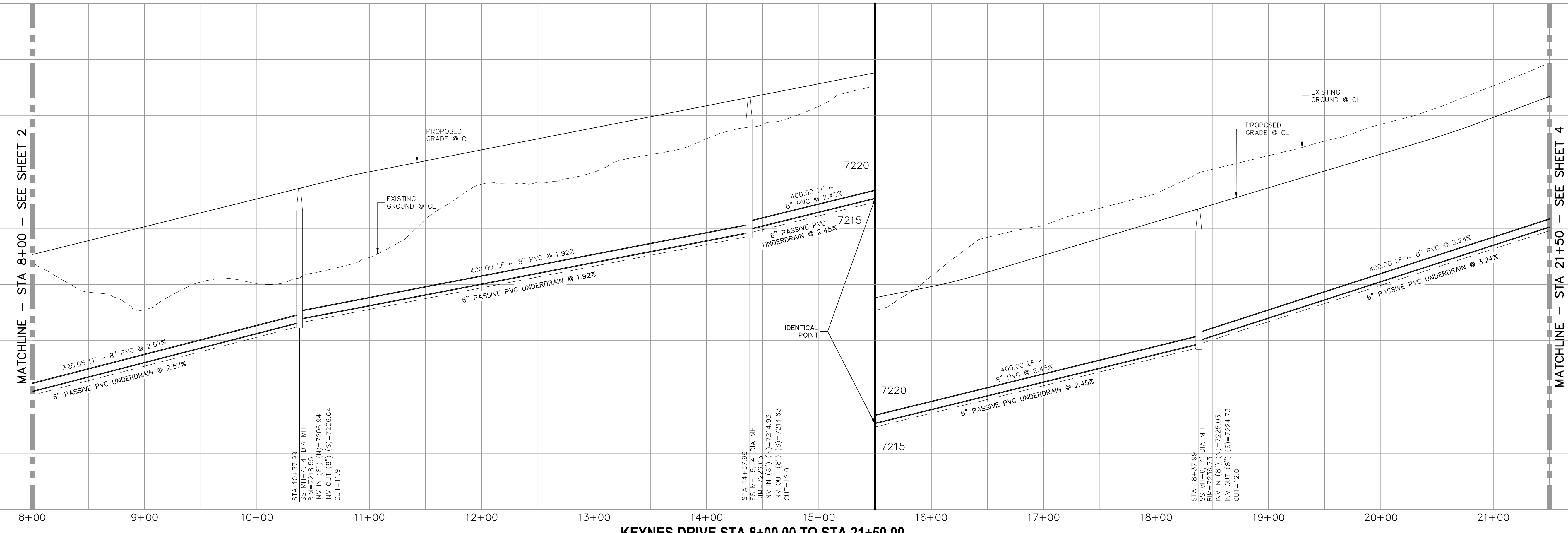
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 48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987



PAINTE BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
 PROJECT NO. 10-014 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW
 SHEET 3 OF 26 **SS03**



**KEYNES DRIVE
 STA 8+00.00 TO STA 21+50.00**



KEYNES DRIVE STA 8+00.00 TO STA 21+50.00

212 N WAHATCH AVE. STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

M&S CIVIL CONSULTANTS, INC.

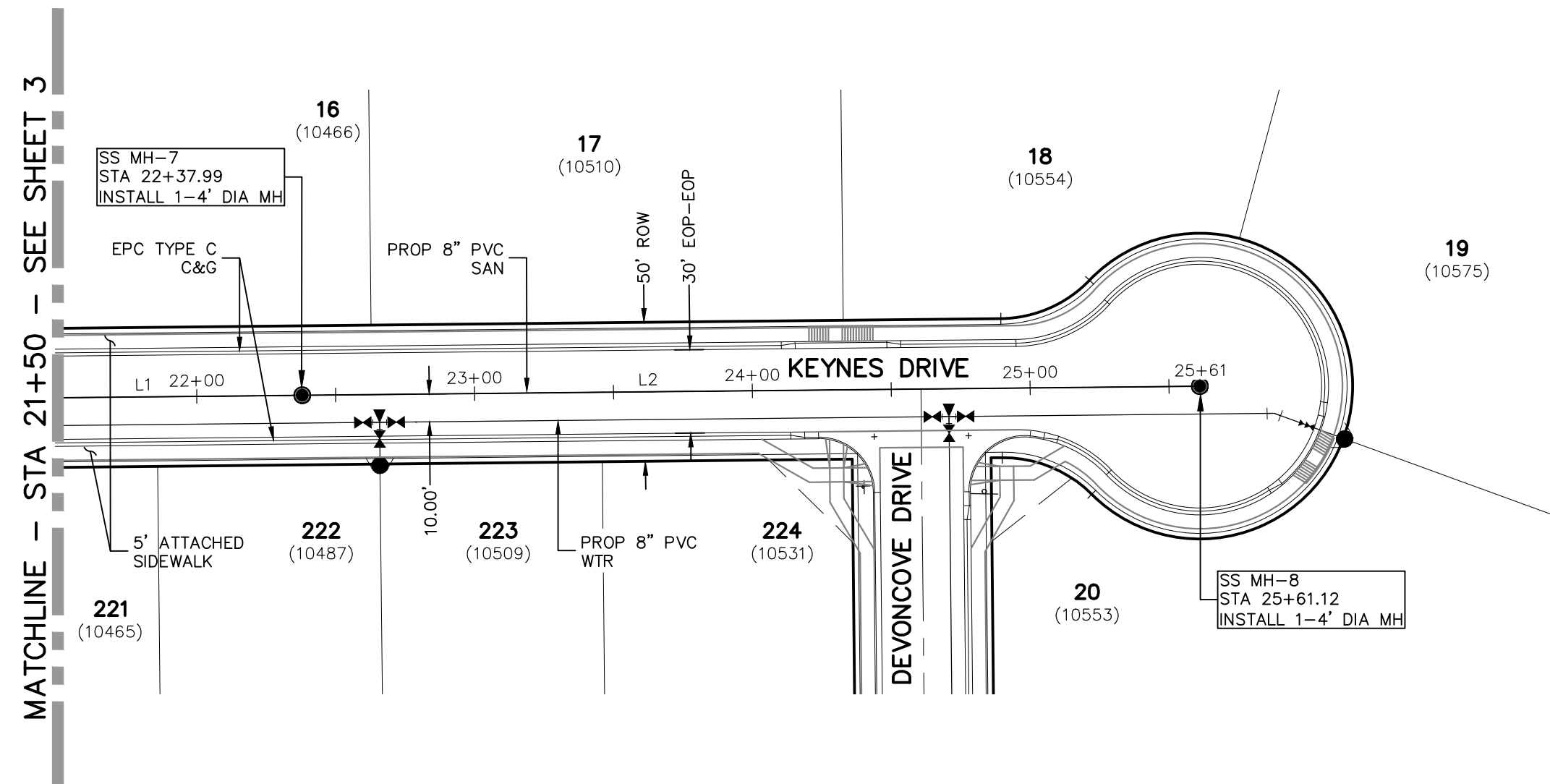
FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

PROFESSIONAL ENGINEER
 VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37760

NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

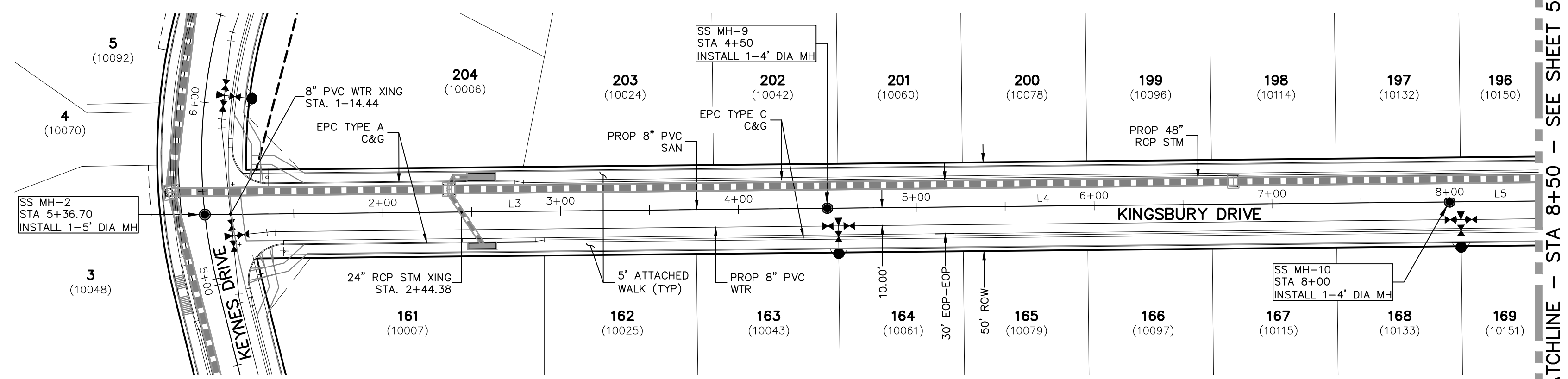
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CAUTION

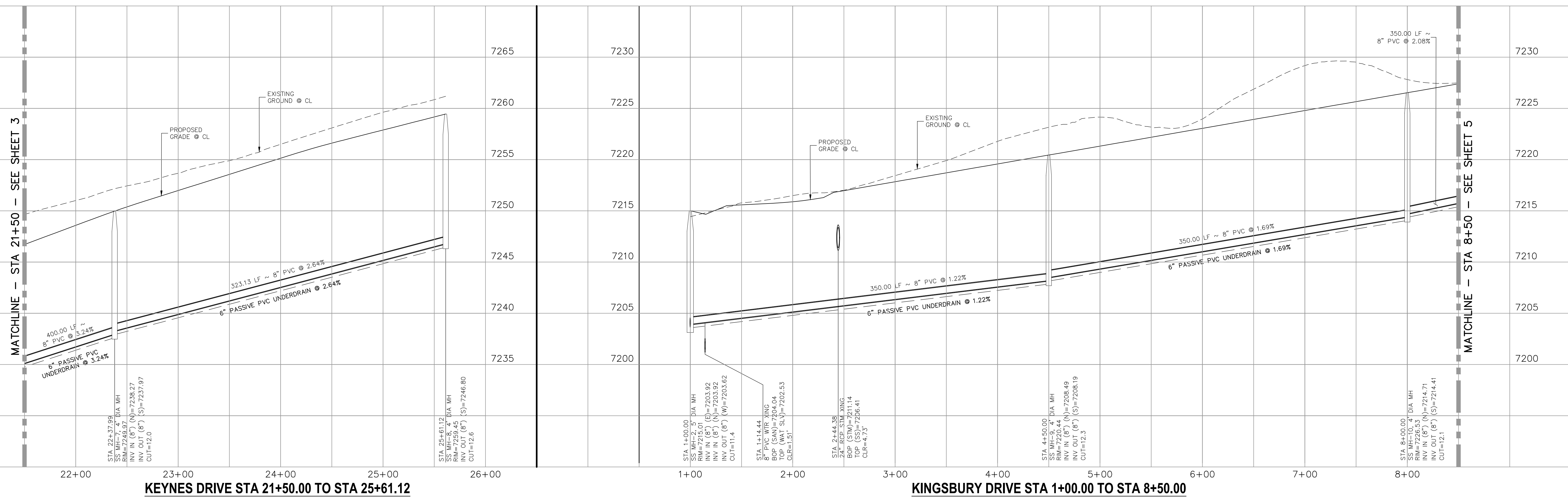


**KEYNES DRIVE
STA 21+50.00 TO STA 25+61.12**

Line #	Length	Direction
L1	400.00	N0°35'00.00"W
L2	323.13	N0°35'00.00"W
L3	350.00	N0°35'00.00"W
L4	350.00	N0°35'00.00"W
L5	350.00	N0°35'00.00"W



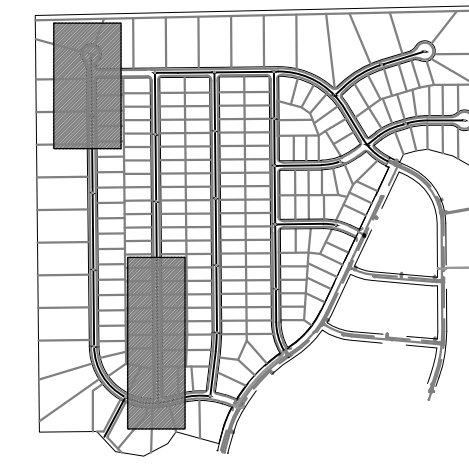
**KINGSBURY DRIVE
STA 1+00.00 TO STA 8+50.00**



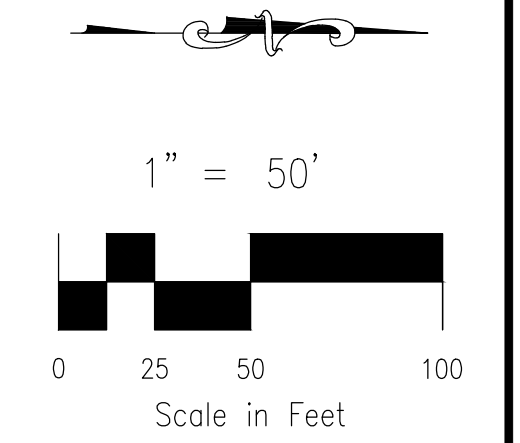
KEYNES DRIVE STA 21+50.00 TO STA 25+61.12

KINGSBURY DRIVE STA 1+00.00 TO STA 8+50.00

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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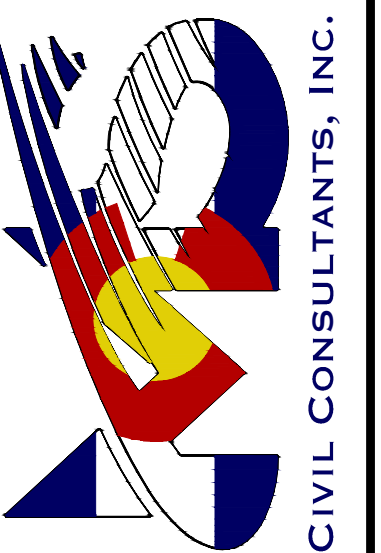


KEY MAP
SCALE: NTS



PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014
DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485



FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 37760



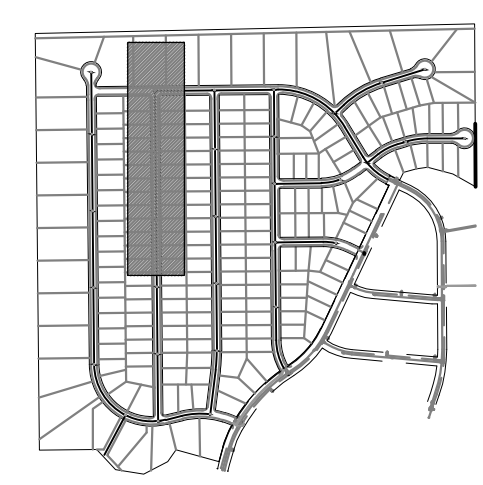
NO.	DATE	BY	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

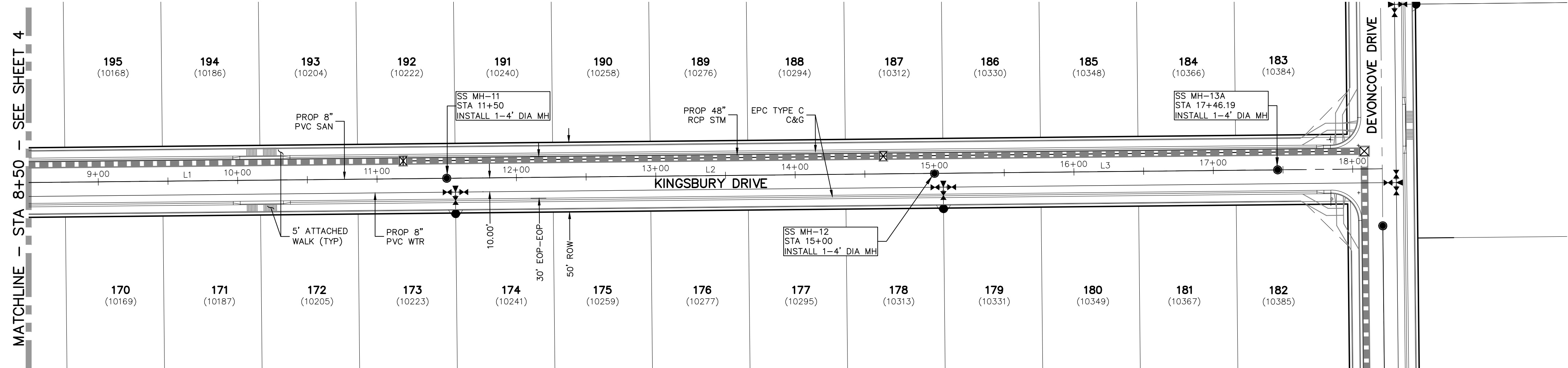
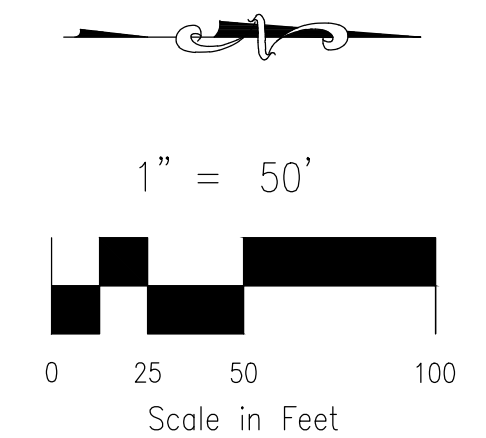
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SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	350.00	N0°35'00"W
L2	350.00	N0°35'00"W
L3	246.19	N0°35'00"W

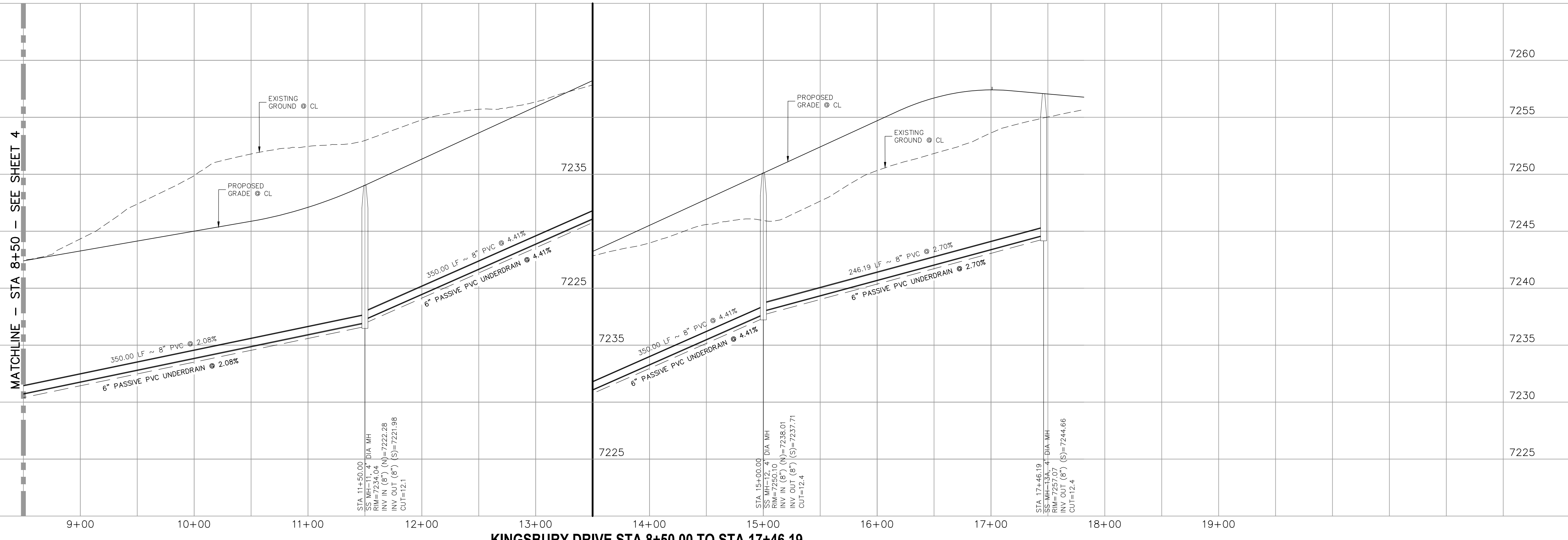


KEY MAP
SCALE: NTS

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987



**KINGSBURY DRIVE
STA 8+50.00 TO STA 17+46.19**



PAIN'T BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014 DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

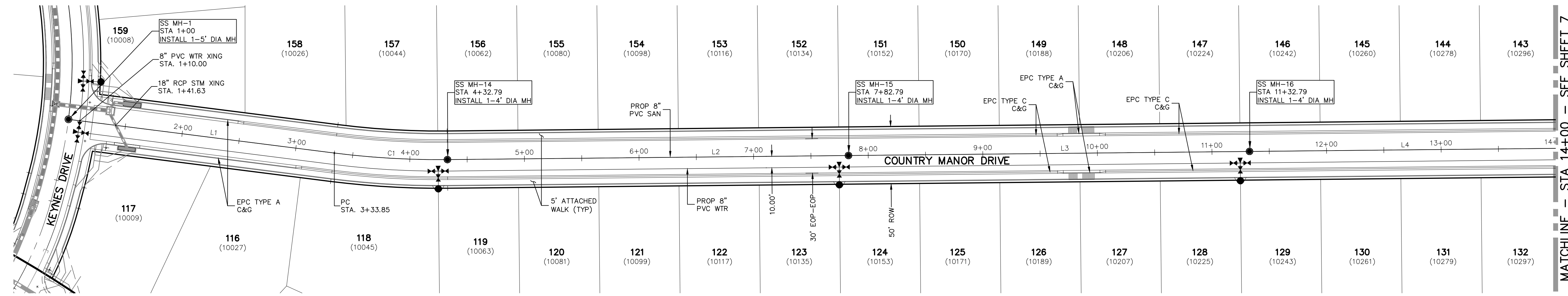
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 377160

NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

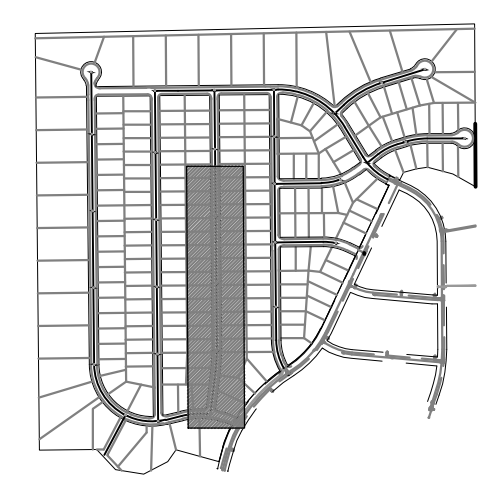
CAUTION

File: C:\Users\lprince\Documents\100144-PBH 14\Proj\Corral Draw\Sewer\SS06.dwg Plotstamp: 3/18/2021 3:50 PM

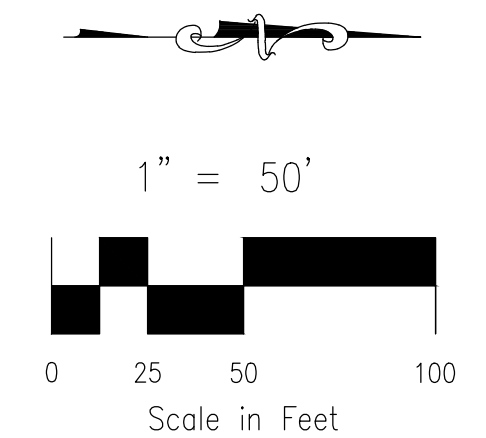


Line #	Length	Direction
L1	233.85	N71°4'08\"/>
L2	350.00	N0°35'00\"/>
L3	350.00	N0°35'00\"/>
L4	350.00	N0°35'00\"/>

Curve #	Length	Radius	Delta
C1	98.94	725.00	7.82

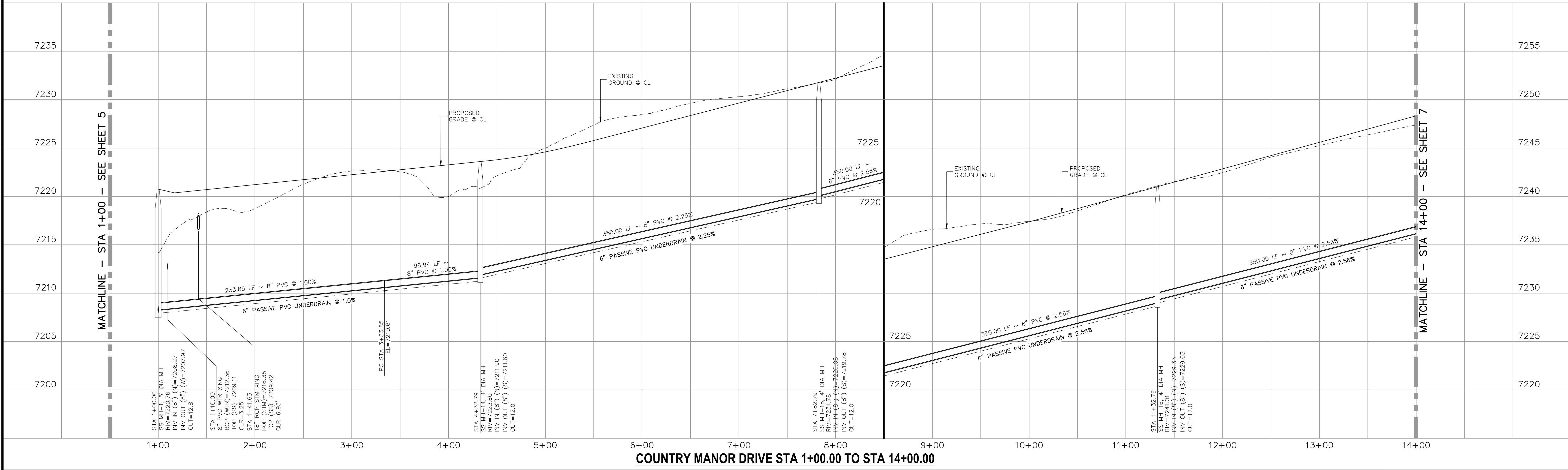


KEY MAP
SCALE: NTS



FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987

**COUNTRY MANOR DRIVE
STA 1+00.00 TO STA 14+00.00**



PAINTE BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014 DATE: 03/19/2021
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW
SHEET 6 OF 26
SS06

212 N. WASHATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

M&S CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37760

NO.	DATE:	BY:	DESCRIPTION:	APPROVED BY:	DATE:

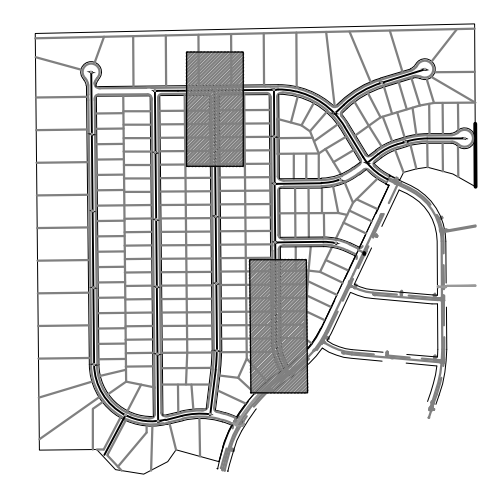
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

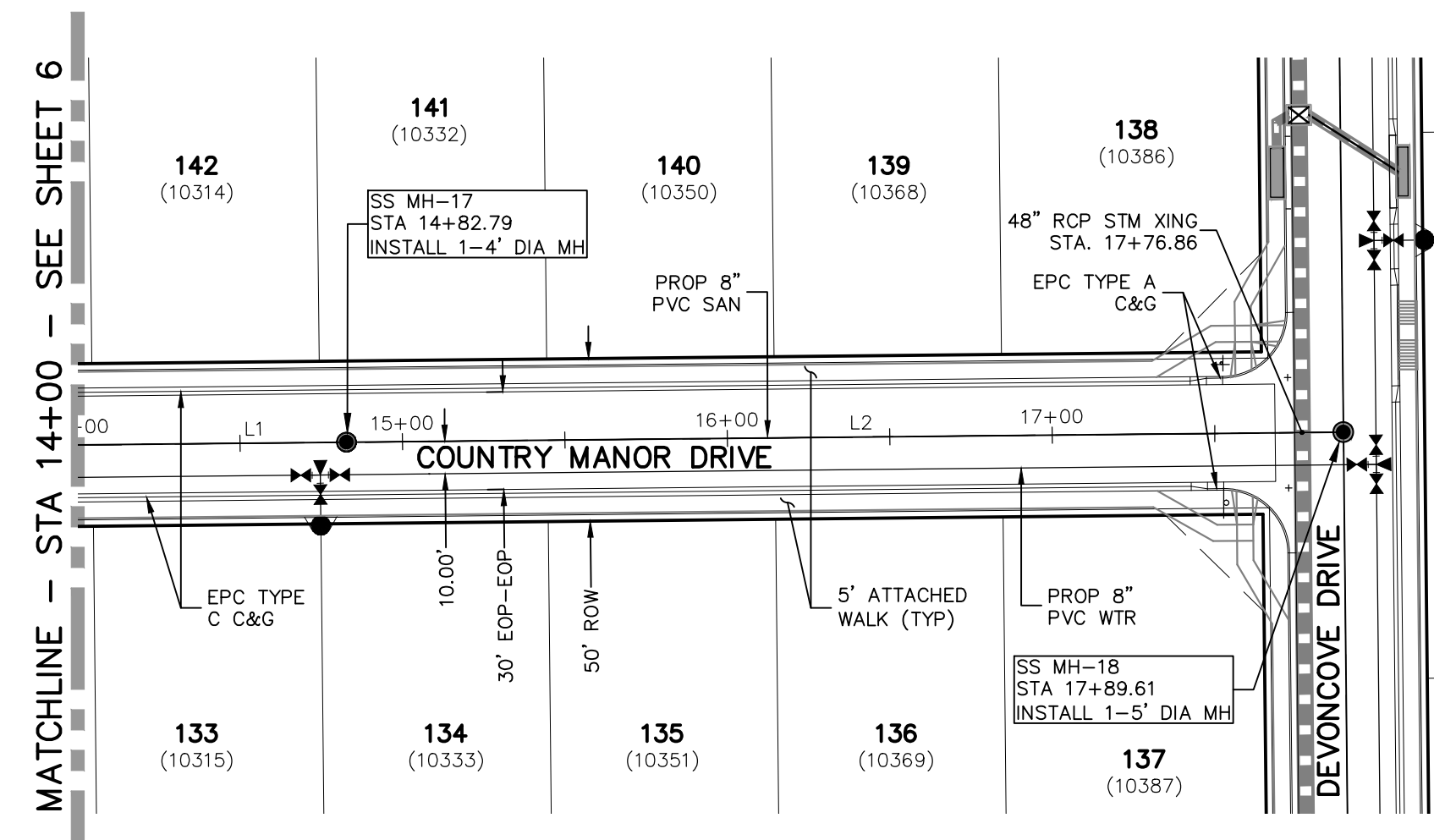
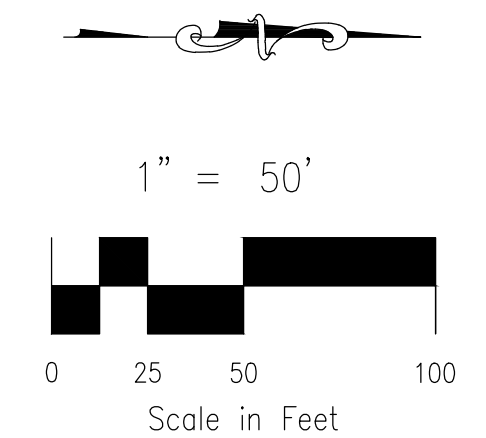
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Line #	Length	Direction
L1	350.00	N0°35'00"W
L2	306.82	N0°35'00"W
L3	173.68	N0°35'00"W
L4	337.56	N0°35'00"W

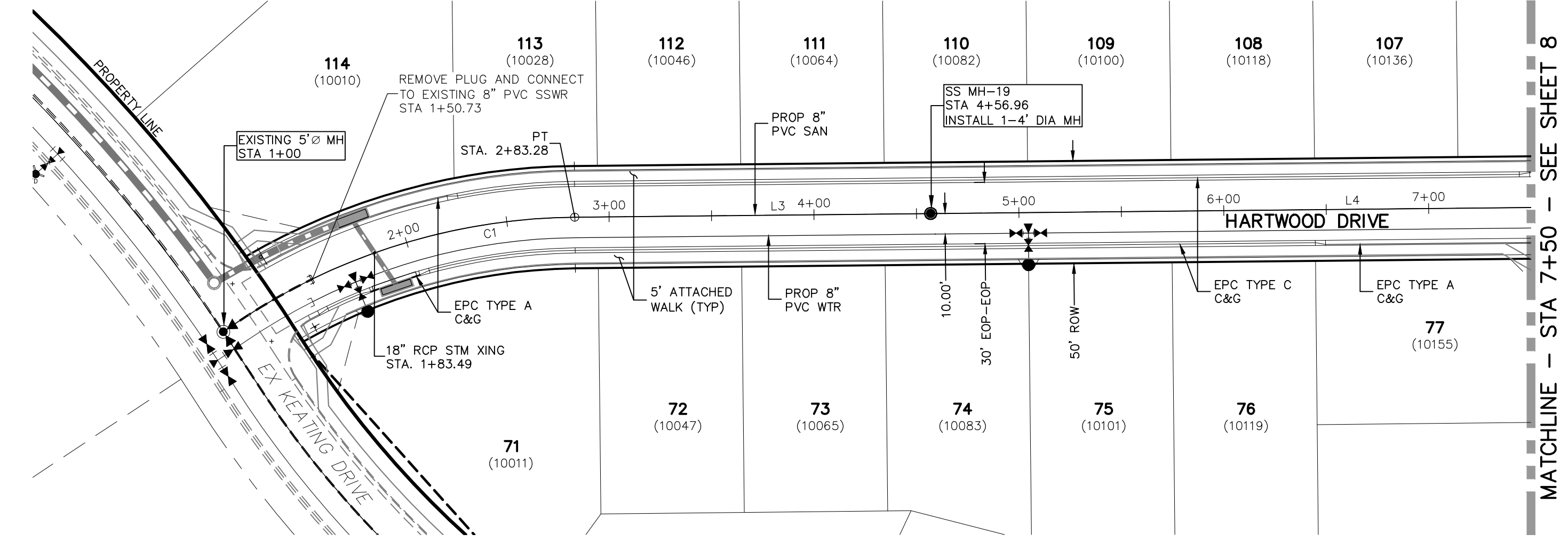
Curve #	Length	Radius	Delta
C1	132.55	300.00	25.32



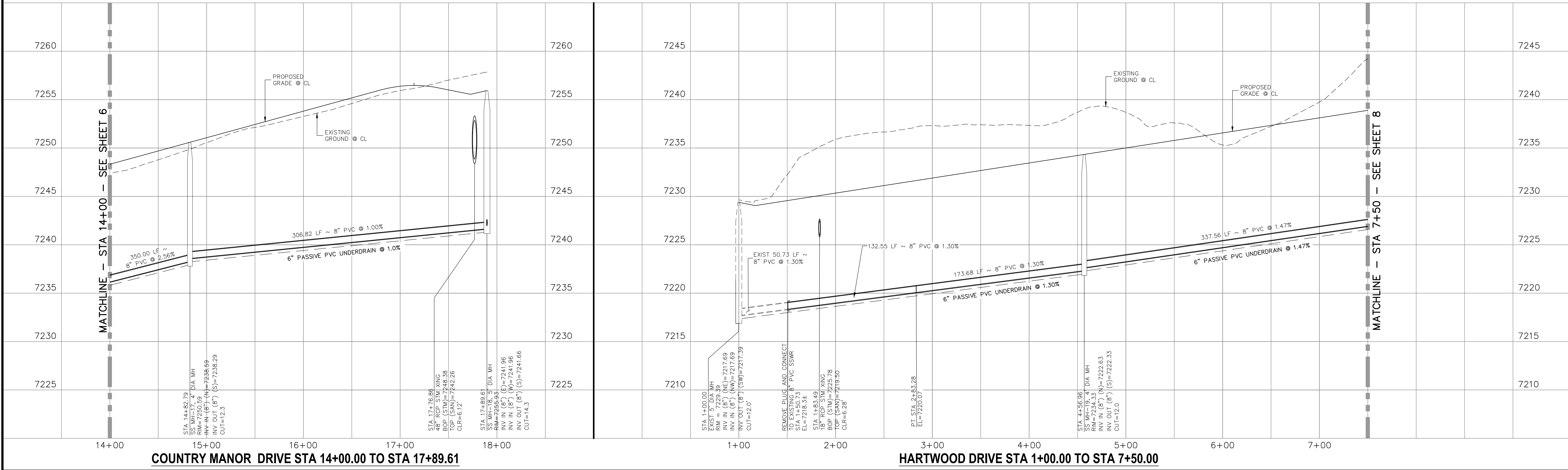
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
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COUNTRY MANOR DRIVE
STA 14+00.00 TO STA 17+89.61



HARTWOOD DRIVE
STA 1+00.00 TO STA 7+50.00



COUNTRY MANOR DRIVE STA 14+00.00 TO STA 17+89.61

HARTWOOD DRIVE STA 1+00.00 TO STA 7+50.00

PAINT BRUSH HILLS FILING NO. 14

SANITARY SEWER PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: SM SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DRAWN BY: SM SHEET 7 OF 26

CHECKED BY: GW SS07

212 N. WARATCH AVE., STE 203
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 377160

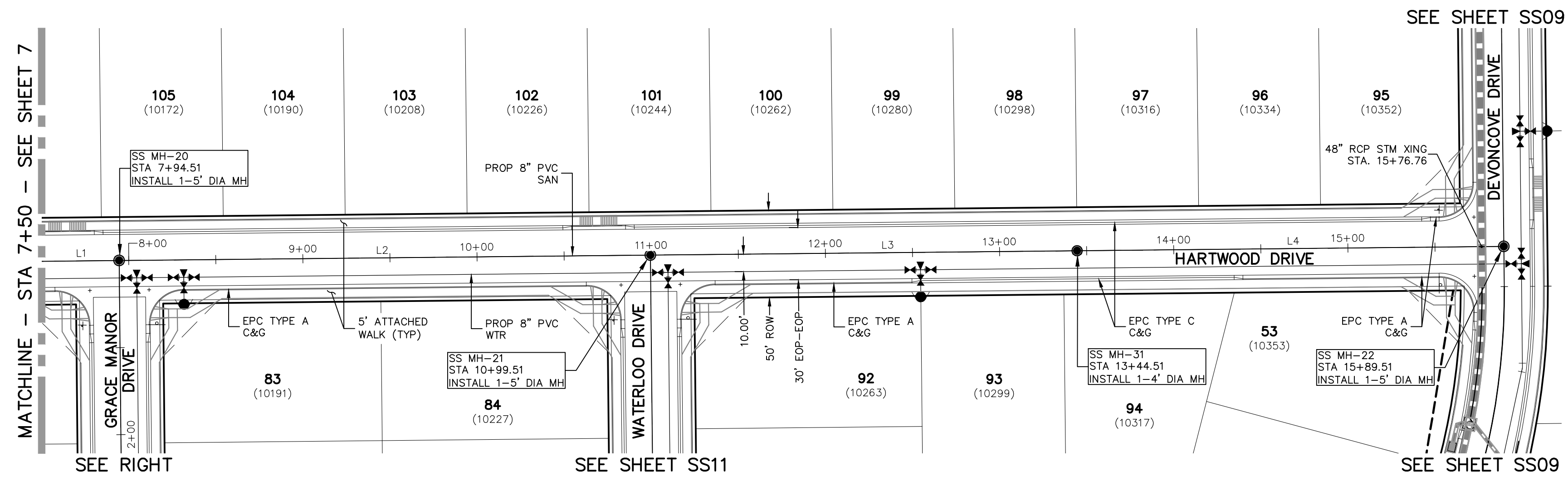
PROFESSIONAL SEAL: 37160 3-22-21

REVISIONS:

NO.	DATE	BY	DESCRIPTION

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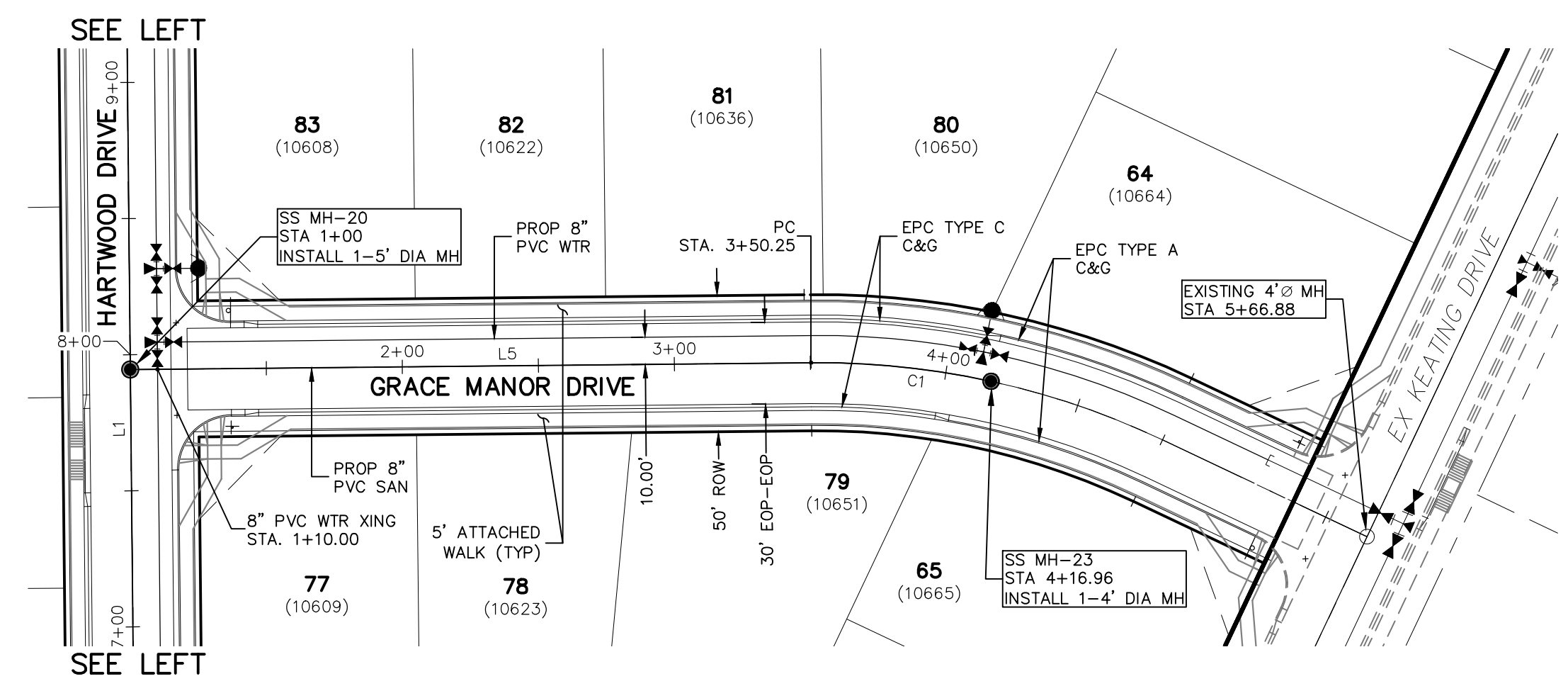
CAUTION



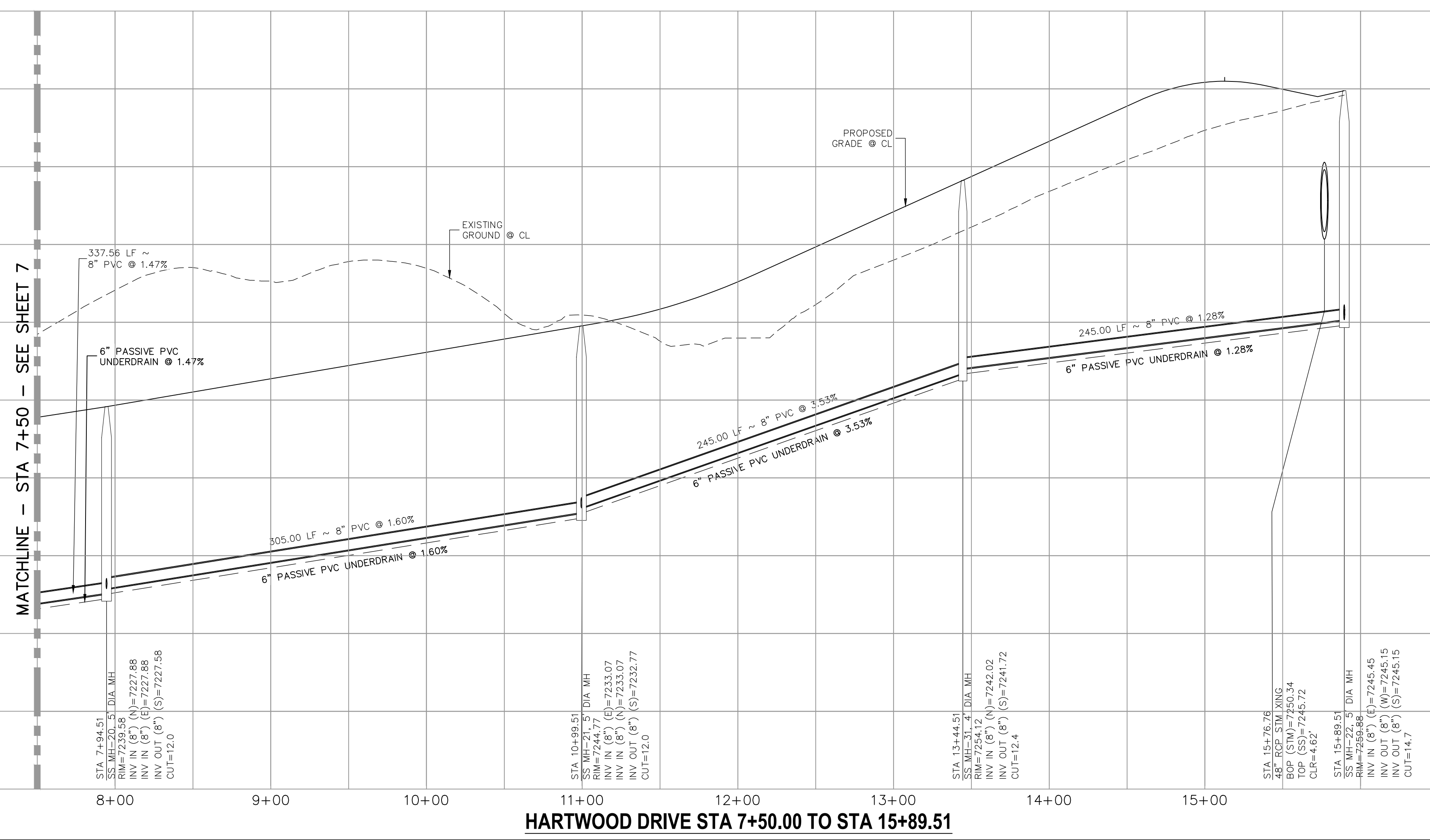
**HARTWOOD DRIVE
STA 7+50.00 TO STA 15+89.51**

SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	337.56	N0°35'00"W
L2	305.00	N0°35'00"W
L3	245.00	N0°35'00"W
L4	245.00	N0°35'00"W
L5	250.25	N89°25'00"E

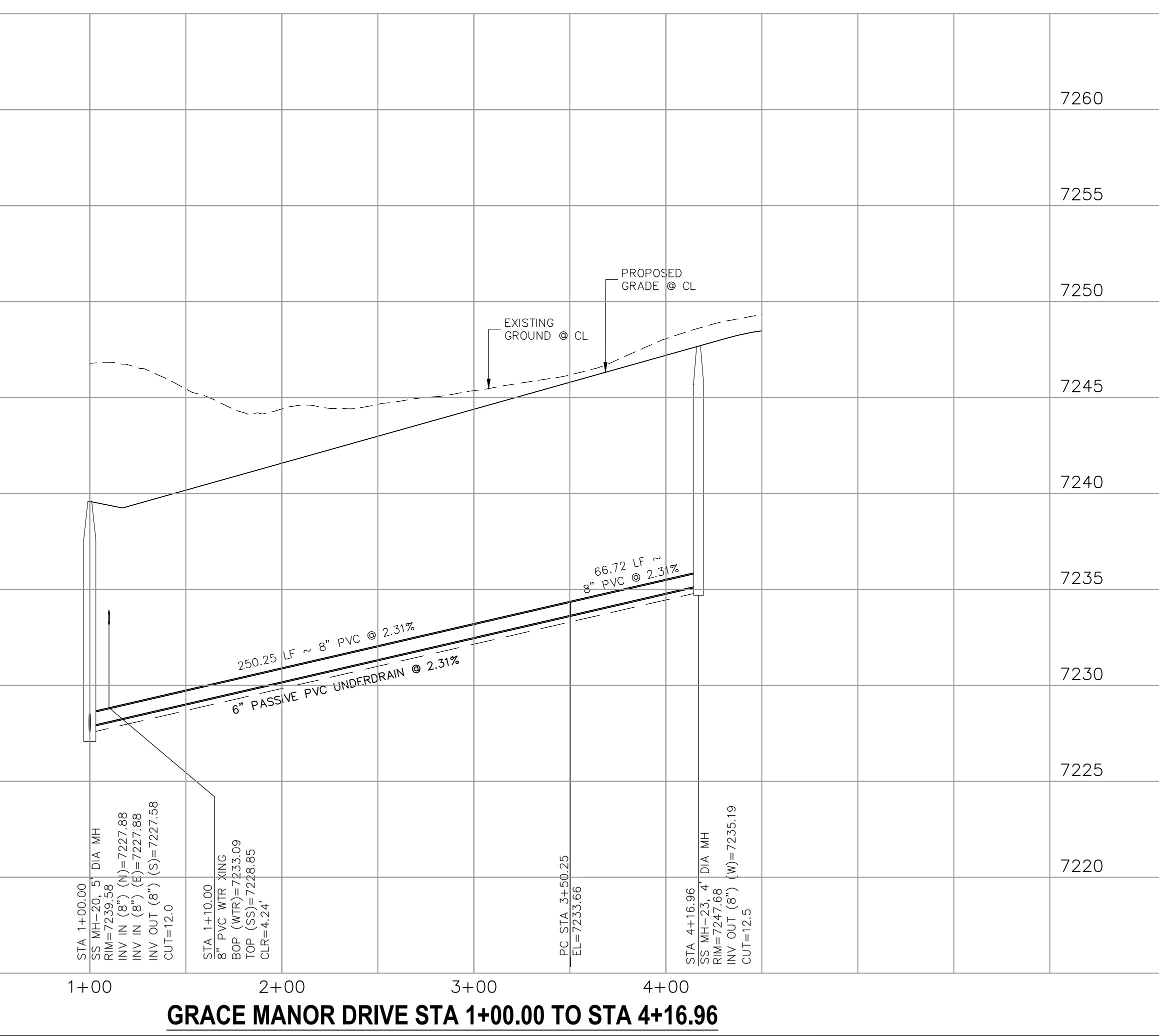
SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	66.72	295.00	12.96



**GRACE MANOR DRIVE
STA 1+00.00 TO STA 4+16.96**



HARTWOOD DRIVE STA 7+50.00 TO STA 15+89.51



GRACE MANOR DRIVE STA 1+00.00 TO STA 4+16.96

PAINT BRUSH HILLS FILING NO. 14

SANITARY SEWER PLANS

PROJECT NO. 10-014 DATE: 03/19/2021
 DESIGNED BY: SM SCALE: 1"=50'
 DRAWN BY: SM HORIZONTAL: 1"=50'
 CHECKED BY: GW VERTICAL: 1"=5'

212 N. WAHATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

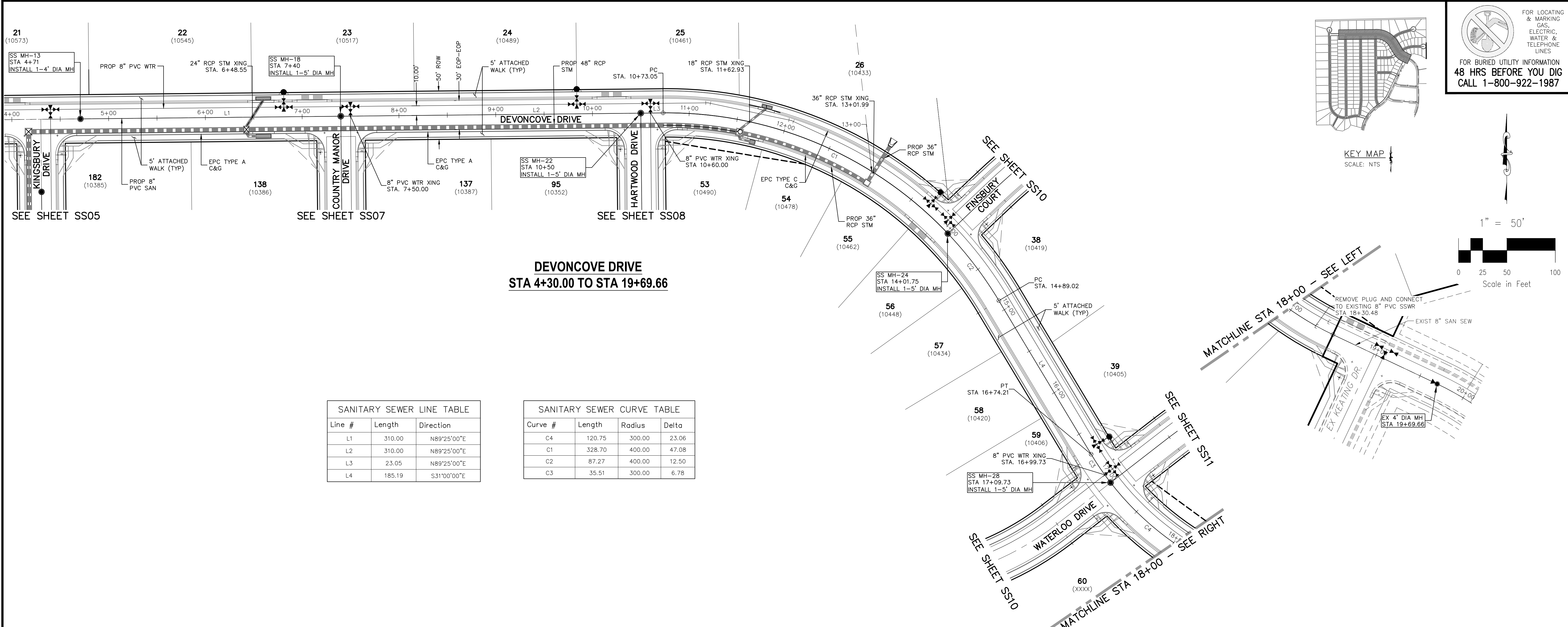
FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION

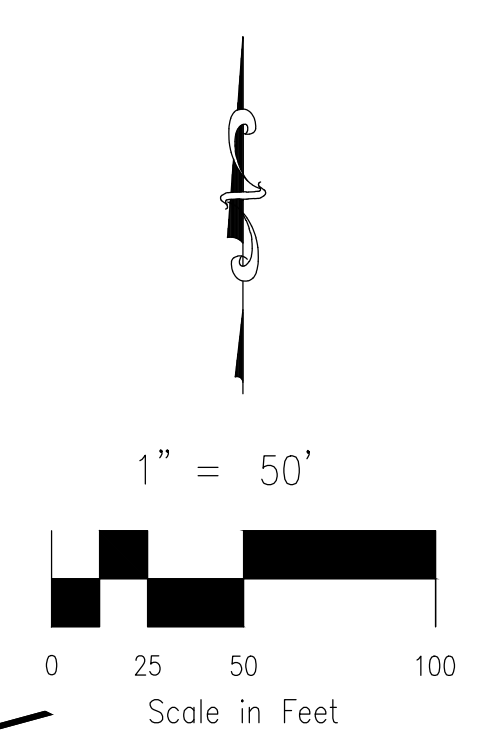
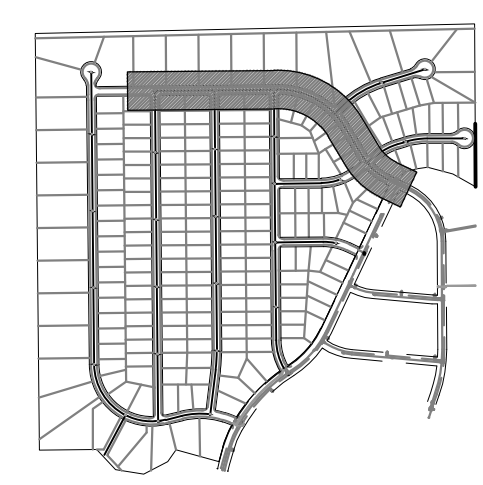
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CAUTION

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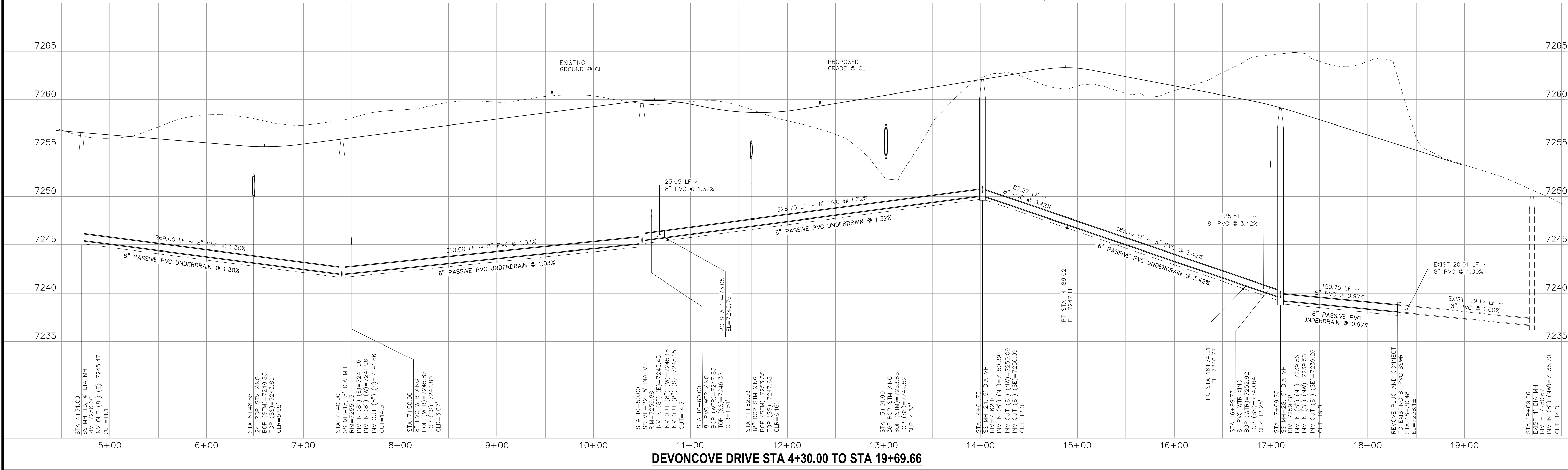


FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
 FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987



Line #	Length	Direction
L1	310.00	N89°25'00"E
L2	310.00	N89°25'00"E
L3	23.05	N89°25'00"E
L4	185.19	S31°00'00"E

Curve #	Length	Radius	Delta
C4	120.75	300.00	23.06
C1	328.70	400.00	47.08
C2	87.27	400.00	12.50
C3	35.51	300.00	6.78



PAINT BRUSH HILLS FILING NO. 14
 SANITARY SEWER PLANS
 PROJECT NO. 10-014
 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: SM
 DRAWN BY: GW
 CHECKED BY: SS09

212 N. WASHATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
 FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

NO.	DATE:	BY:	DESCRIPTION:

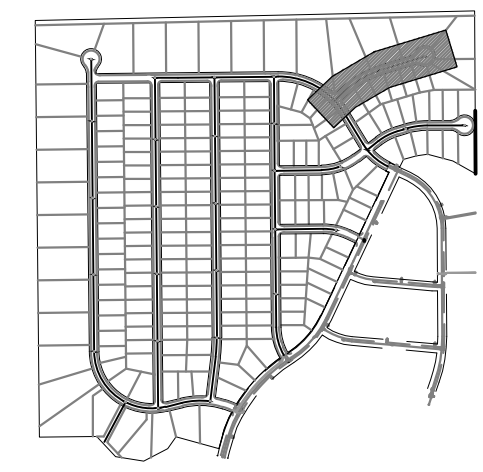
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CAUTION

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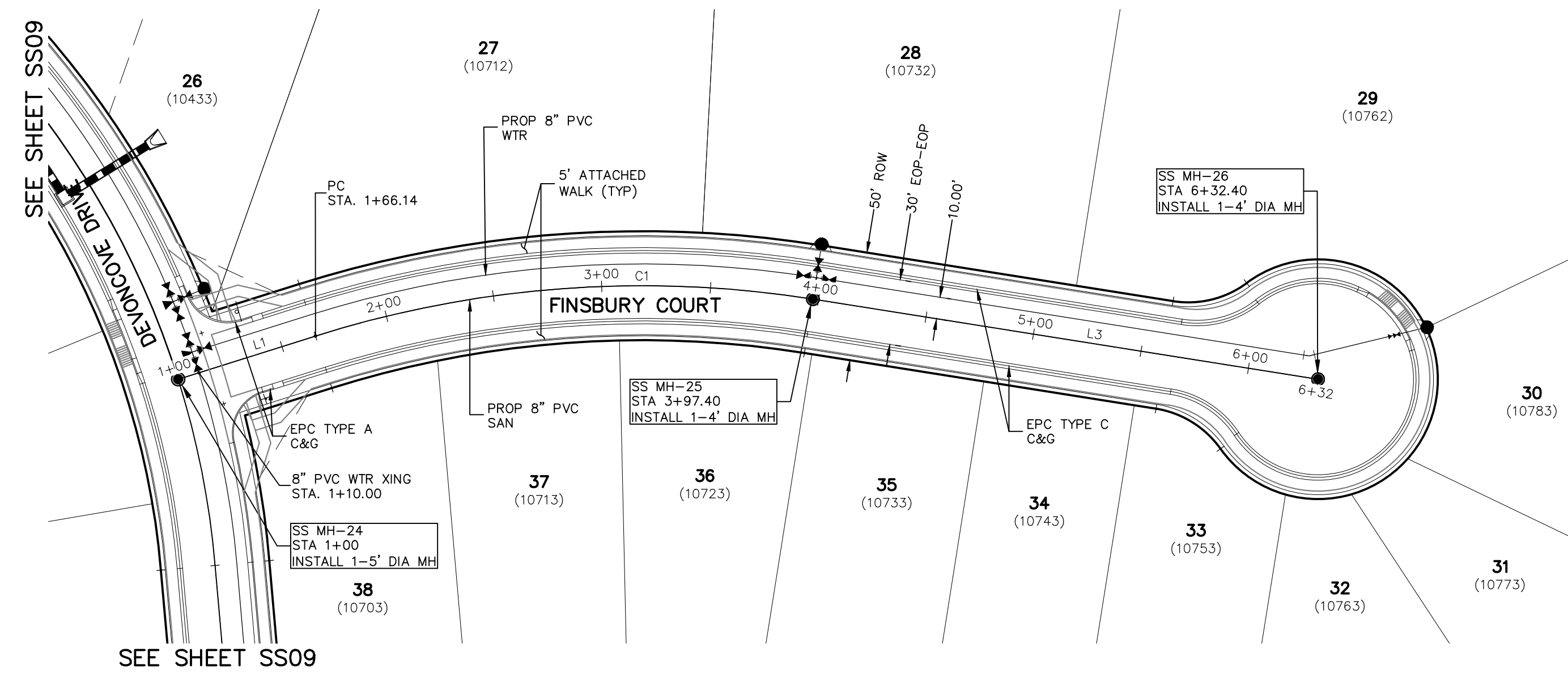
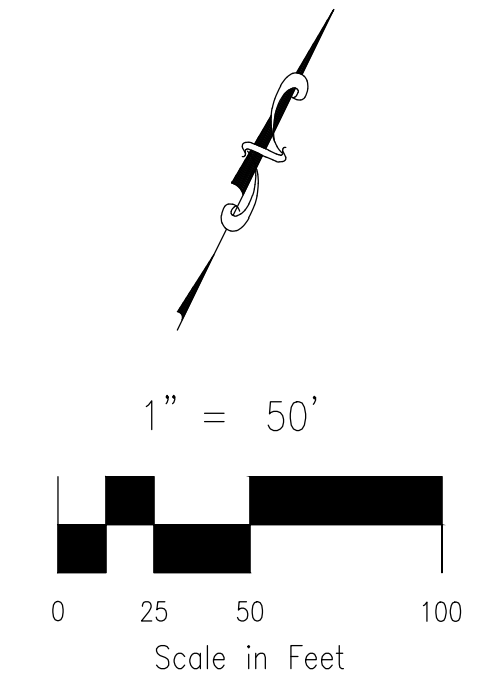
SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	66.14	S46°30'00"W
L3	235.00	S73°00'00"W

SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	231.26	500.00	26.50

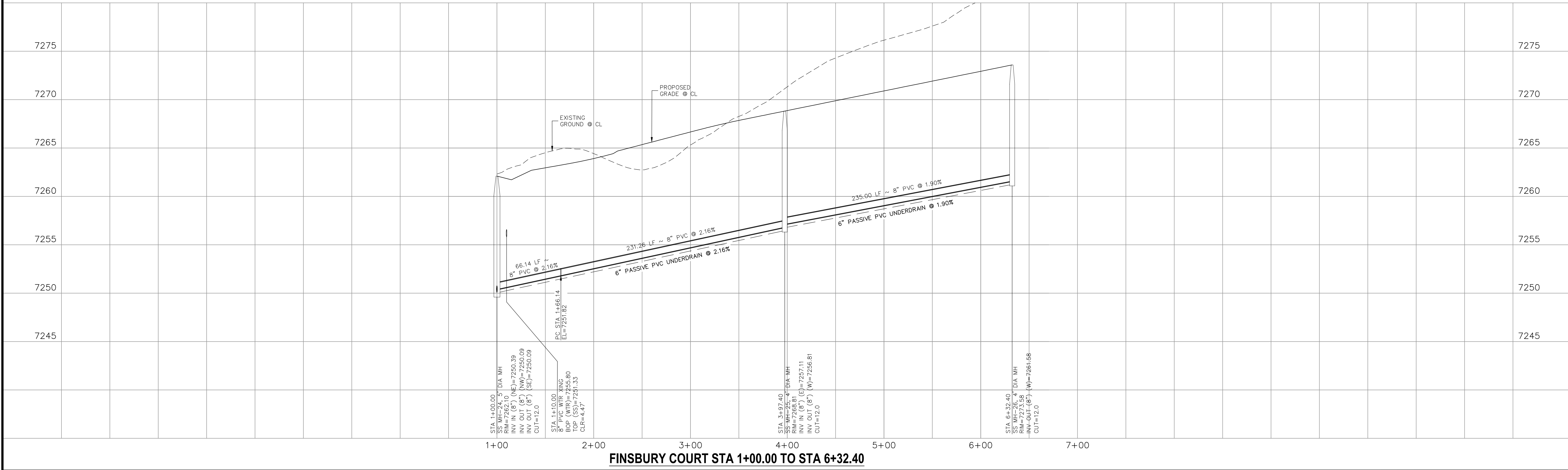


KEY MAP
SCALE: NTS

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987



**FINSBURY COURT
STA 1+00.00 TO STA 6+32.40**



PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014 DATE: 03/19/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW

212 N. WARSATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

REVISIONS:
NO. DATE BY: DESCRIPTION

APPROVED BY: DATE:

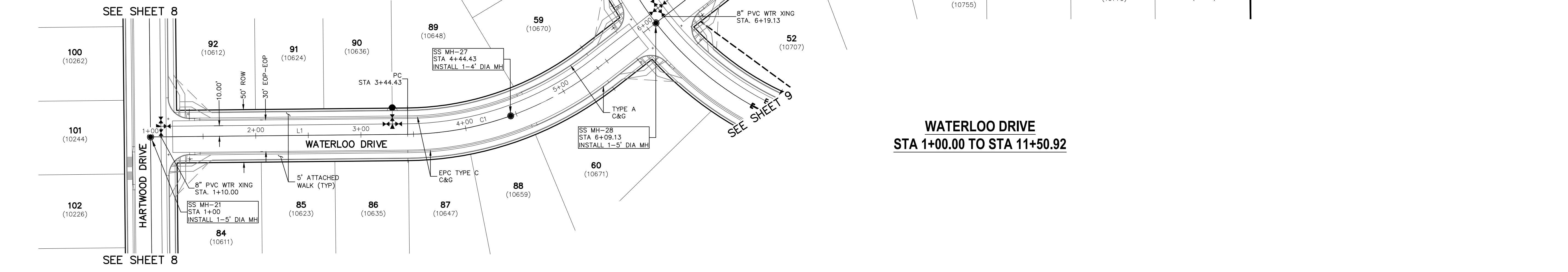
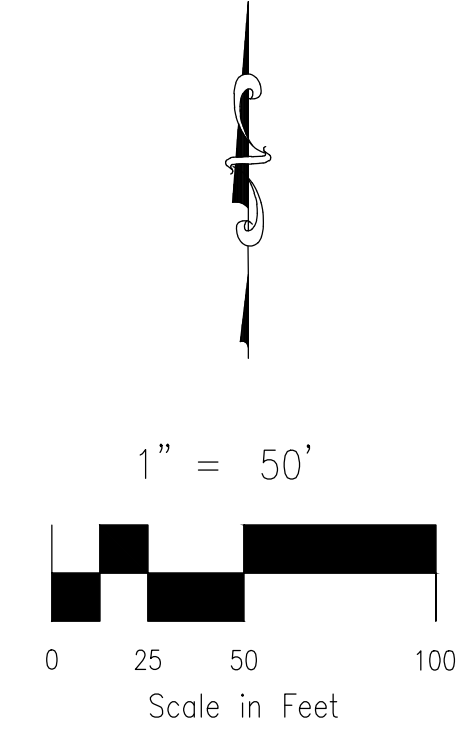
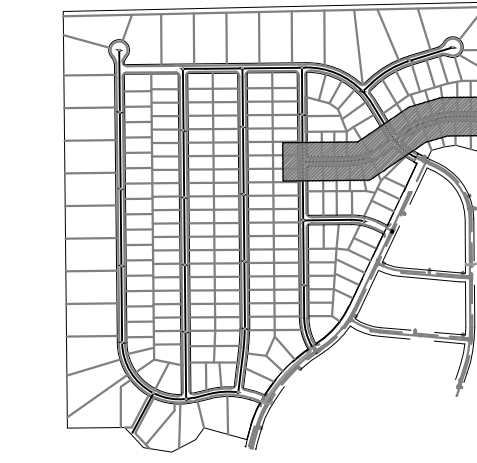
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CAUTION

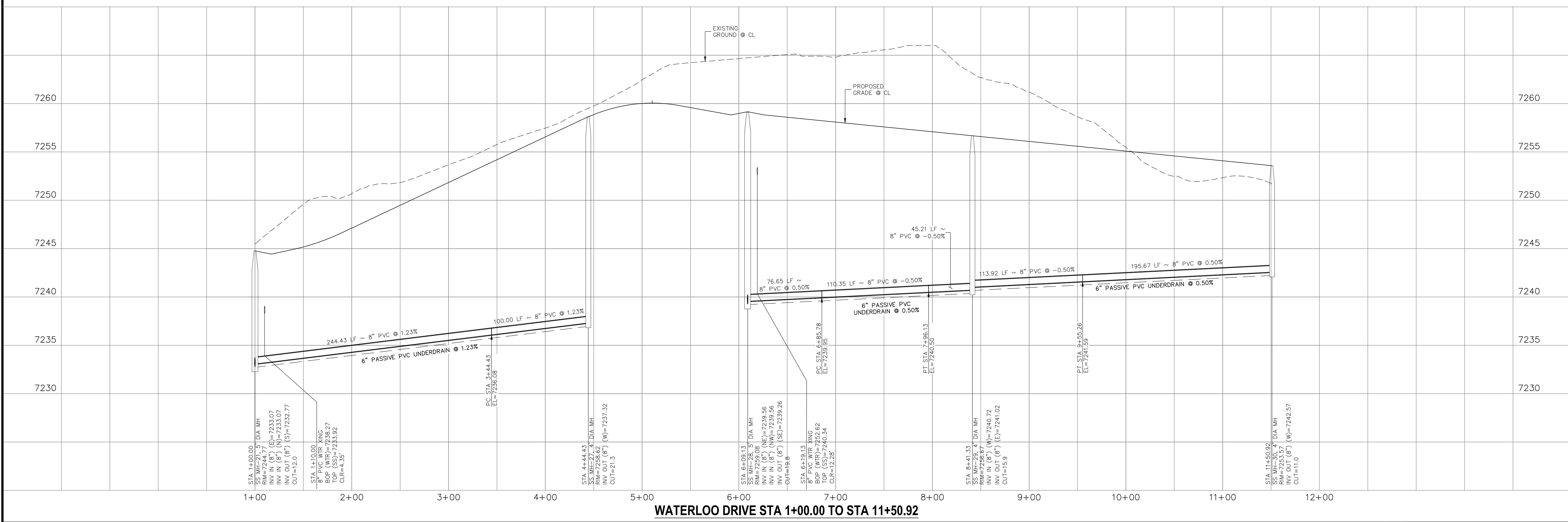
Line #	Length	Direction
L1	244.43	N89°25'00"E
L2	76.65	N52°13'02"E
L3	45.21	N73°17'32"E
L4	195.67	N89°36'37"E

Curve #	Length	Radius	Delta
C1	100.00	300.00	19.10
C2	110.35	300.00	21.08
C3	113.92	400.00	16.32

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987



**WATERLOO DRIVE
STA 1+00.00 TO STA 11+50.92**



PAINT BRUSH HILLS FILING NO. 14

SANITARY SEWER PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: SM SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

DRAWN BY: SM SHEET 11 OF 26

CHECKED BY: GW SS11

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

NO.	DATE	BY	DESCRIPTION

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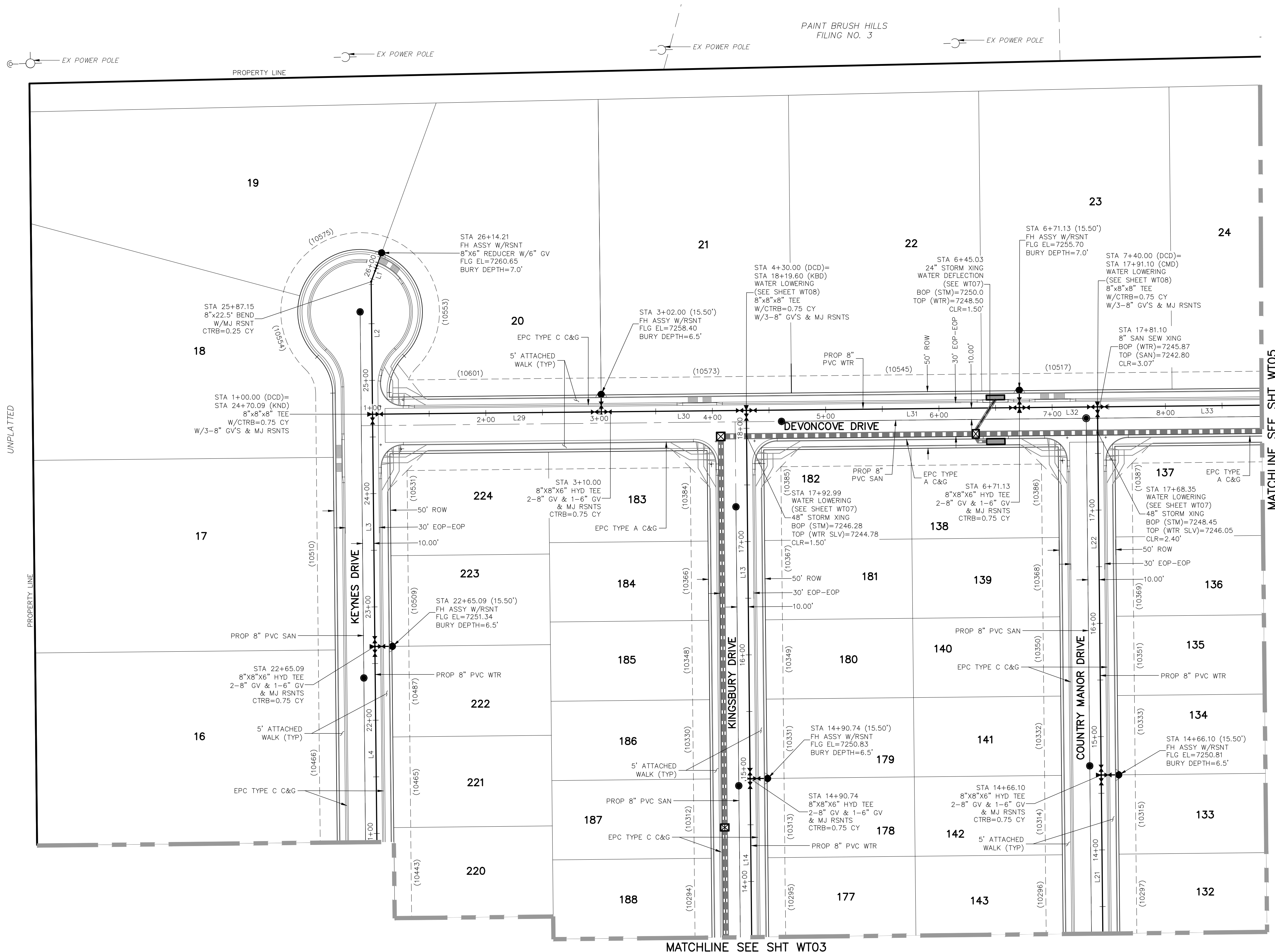
CAUTION

File: C:\Users\opirece\Documents\100144-PBH-14\Map\Corral Draw\Water\WT02-WT06.dwg PlotStamp: 3/18/2021 3:16 PM



1" = 50'

Scale in Feet



NOTE:
1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

- ABBREVIATIONS**
- FBC FINSBURY COURT
 - KND KEYNES DRIVE
 - DCD DEVONCOVE DRIVE
 - KBD KINGSBURY DRIVE
 - CMD COUNTRY MANOR DRIVE
 - WLD WATERLOO DRIVE
 - HWD HARTWOOD DRIVE
 - GMD GRACE MANOR DRIVE
 - EX EXISTING
 - SAN SANITARY SEWER
 - PROP PROPOSED
 - SHT SHEET
 - WTR WATER
 - EPC EL PASO COUNTY CURB AND GUTTER
 - C&G CURB AND GUTTER
 - ROW RIGHT OF WAY
 - EOP EDGE OF PAVEMENT
 - HYD HYDRANT
 - TYP TYPICAL
 - XING CROSSING
 - STM STORM SEWER
 - CLR CLEARANCE
 - BOP BOTTOM OF PIPE
 - TOP TOP OF PIPE
 - CTRB CONCRETE TRUST BLOCK
 - CY CUBIC YARD

- LEGEND**
- FUTURE WATER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATER
 - FIRE HYDRANT (PROPOSED)
 - VALVE (PROPOSED)
 - BLOWOFF ASSY. (PROPOSED)
 - PLUG (PROPOSED)
 - PROPOSED STORM DRAIN
 - RIGHT-OF-WAY
 - PROPERTY LINE
 - CENTERLINE
 - LOT ADDRESS
 - LOT NUMBER
 - MATCHLINE

WATER LINE TABLE		
Line #	Length	Direction
L1	24.89	S20°00'00"W
L2	117.06	S0°35'00"E
L3	205.00	S0°35'00"E
L4	320.00	S0°35'00"E
L13	325.00	S0°35'00"E
L14	350.00	S0°35'00"E
L21	350.00	S0°35'00"E
L22	325.00	S0°35'00"E
L29	210.00	N89°25'00"E
L30	120.00	N89°25'00"E
L31	241.13	N89°25'00"E
L32	68.87	N89°25'00"E
L33	250.00	N89°25'00"E

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014

DESIGNED BY: JWP

DRAWN BY: SM

CHECKED BY: GW

DATE: 03/19/2021

SCALE: 1"=50'

HORIZONTAL: N/A

VERTICAL: N/A

SHEET 12 OF 26

WT02

CIVIL CONSULTANTS, INC.

212 N. WARBATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

REVISIONS:

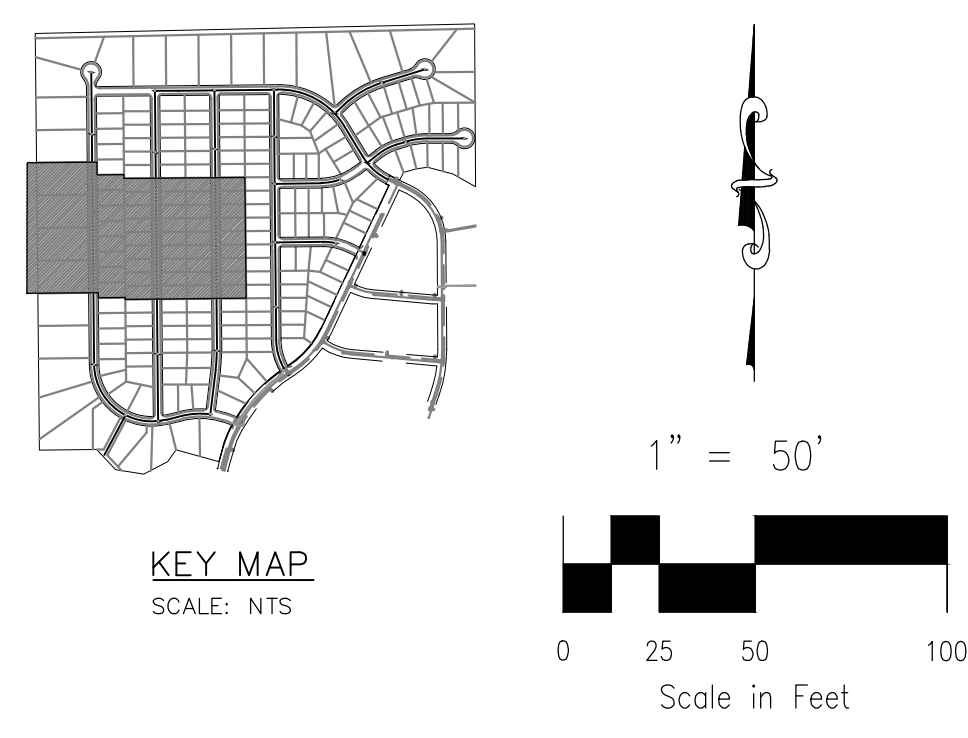
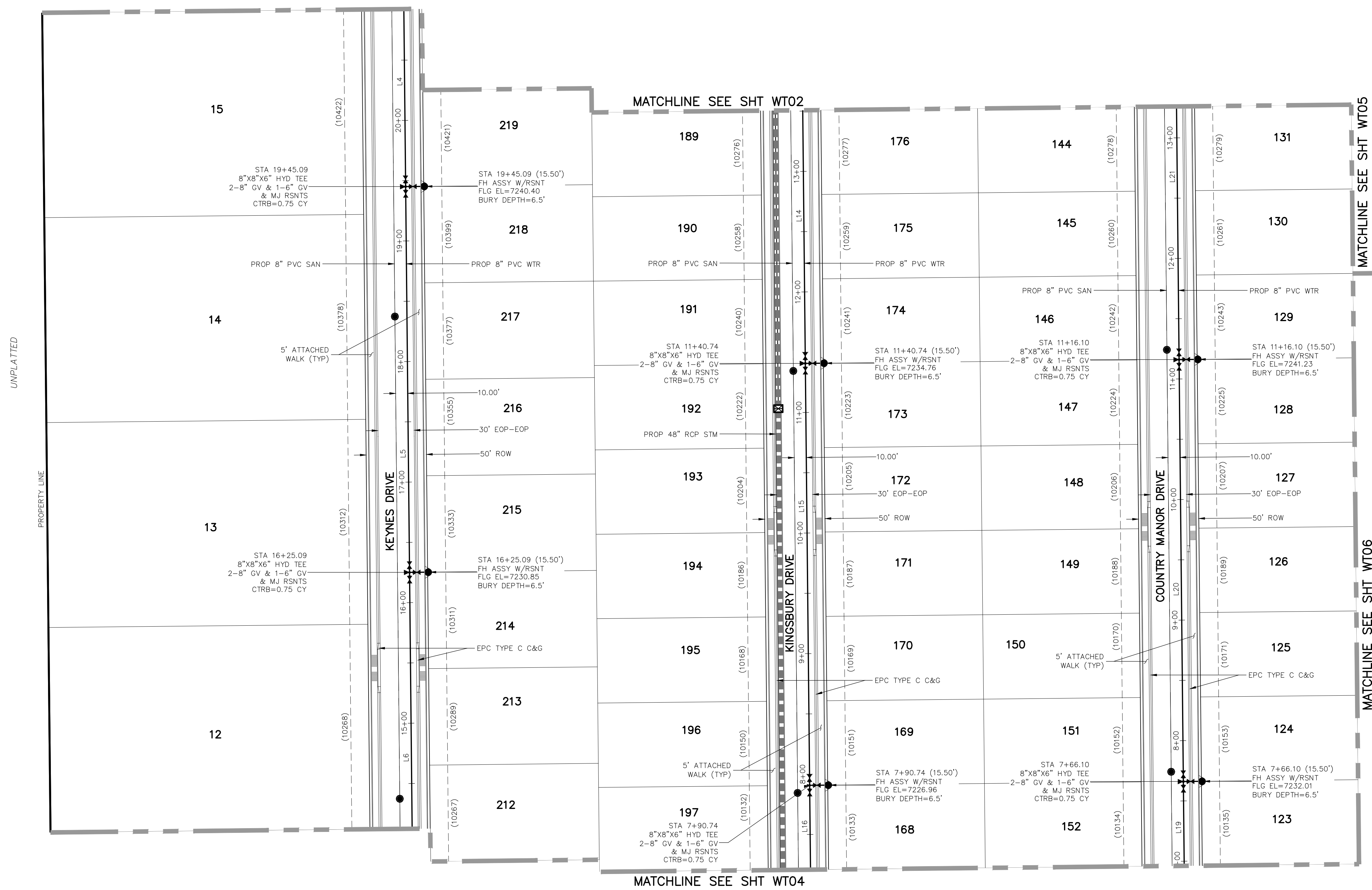
NO.	DATE	BY	DESCRIPTION

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CAUTION

File: C:\Users\oprice\Documents\100144-PBH 14\DWG\Corral Day\water\WT02-WT06.dwg PlotStamp: 3/18/2021 3:18 PM

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987



NOTE:
 1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

- ABBREVIATIONS**
- FBC FINSBURY COURT
 - KND KEYNES DRIVE
 - DCD DEVONCOVE DRIVE
 - KBD KINGSBURY DRIVE
 - CMD COUNTRY MANOR DRIVE
 - WLD WATERLOO DRIVE
 - HWD HARTWOOD DRIVE
 - GMD GRACE MANOR DRIVE
 - EXISTING EXISTING
 - SAN SANITARY SEWER
 - PROP PROPOSED
 - SHT SHEET
 - WTR WATER
 - EPC EL PASO COUNTY CURB AND GUTTER
 - ROW RIGHT OF WAY
 - EOP EDGE OF PAVEMENT
 - HYD HYDRANT
 - TYP TYPICAL
 - XING CROSSING
 - STM STORM SEWER
 - CLR CLEARANCE
 - BOP BOTTOM OF PIPE
 - TOP TOP OF PIPE
 - CTRB CONCRETE TRUST BLOCK
 - CY CUBIC YARD

- LEGEND**
- FUTURE WATER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATER
 - FIRE HYDRANT (PROPOSED)
 - VALVE (PROPOSED)
 - BLOWOFF ASSY. (PROPOSED)
 - PLUG (PROPOSED)
 - PROPOSED STORM DRAIN
 - RIGHT-OF-WAY
 - PROPERTY LINE
 - CENTERLINE
 - LOT ADDRESS (10333)
 - LOT NUMBER 134
 - MATCHLINE

WATER LINE TABLE

Line #	Length	Direction
L4	320.00	S0°35'00"E
L5	320.00	S0°35'00"E
L6	320.00	S0°35'00"E
L14	350.00	S0°35'00"E
L15	350.00	S0°35'00"E
L16	350.00	S0°35'00"E
L19	350.00	S0°34'30"E
L20	350.00	S0°35'00"E
L21	350.00	S0°35'00"E

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014 DATE: 03/19/2021
 DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50'
 DRAWN BY: SM VERTICAL: N/A
 CHECKED BY: GW

212 N. WARBATCH AVE., STE 203
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

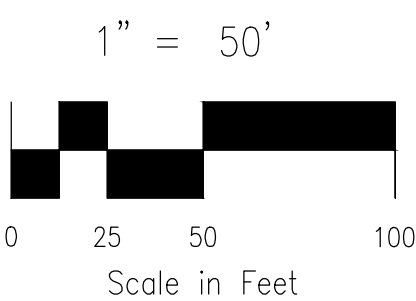
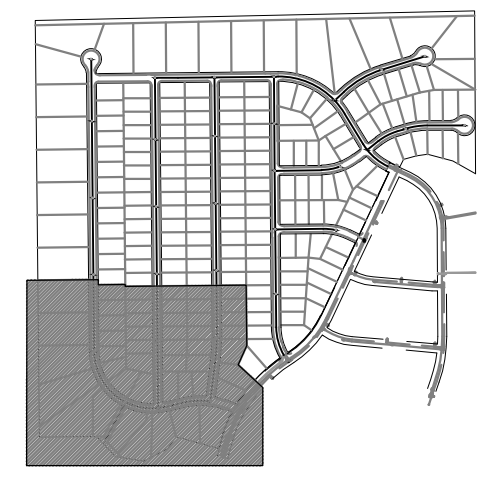
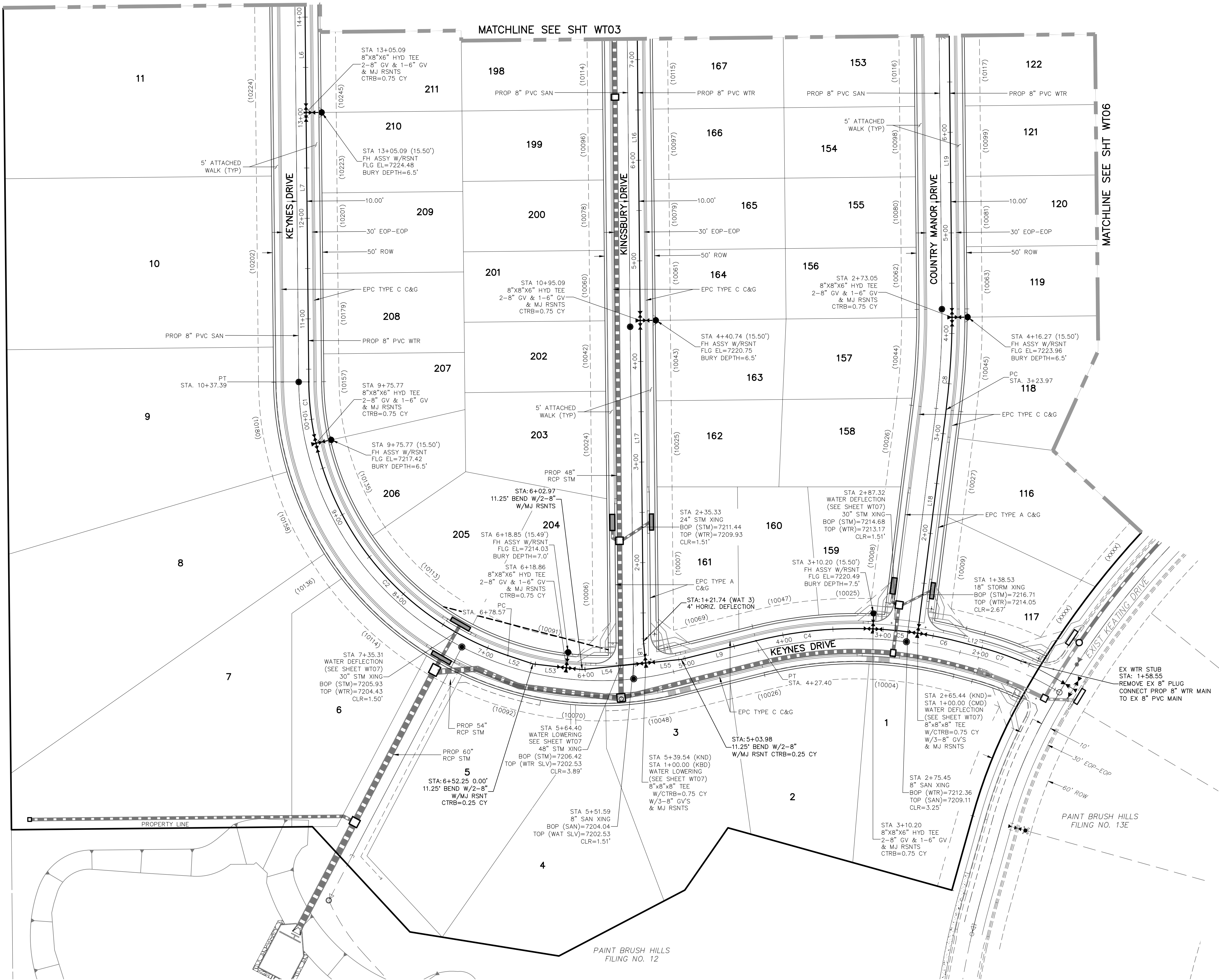
MIRCEL A. SANCHEZ, COLORADO P.E. NO. 37160

PROFESSIONAL SEAL: 37160, 3-22-21

REVISIONS: NO. DATE: BY: DESCRIPTION:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



NOTE:
1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

- ABBREVIATIONS**
- FBC FINSBURY COURT
 - KND KEYNES DRIVE
 - DCD DEVONCOVE DRIVE
 - KBD KINGSBURY DRIVE
 - CMD COUNTRY MANOR DRIVE
 - WLD WATERLOO DRIVE
 - HWD HARTWOOD DRIVE
 - GMD GRACE MANOR DRIVE
 - EXIST EXISTING
 - SAN SANITARY SEWER
 - PROP PROPOSED
 - SHT SHEET
 - WTR WATER
 - EPC EL PASO COUNTY CURB AND GUTTER
 - C&G CURB AND GUTTER
 - ROW RIGHT OF WAY
 - EOP EDGE OF PAVEMENT
 - HYD HYDRANT
 - TYP TYPICAL
 - XING CROSSING
 - STM STORM SEWER
 - CLR CLEARANCE
 - BOP BOTTOM OF PIPE
 - TOP TOP OF PIPE
 - CTR CONCRETE TRUST BLOCK
 - CY CUBIC YARD

- LEGEND**
- FUTURE WATER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATER
 - FIRE HYDRANT (PROPOSED)
 - VALVE (PROPOSED)
 - BLOWOFF ASSY. (PROPOSED)
 - PLUG (PROPOSED)
 - PROPOSED STORM DRAIN
 - RIGHT-OF-WAY
 - PROPERTY LINE
 - CENTERLINE
 - LOT ADDRESS (10333)
 - LOT NUMBER
 - MATCHLINE 134

Line #	Length	Direction
L6	320.00	S0°35'00"E
L7	267.70	S0°35'00"E
L8	21.74	S5°52'10"E
L9	76.57	N76°00'00"E
L12	18.91	S75°00'00"E
L16	350.00	S0°35'00"E
L17	314.27	S0°35'00"E
L18	223.97	S71°41'0"W
L19	350.00	S0°34'30"E
L52	26.33	S71°28'40"E
L53	33.39	S83°24'10"E
L54	63.43	N84°07'50"E
L55	35.56	N84°07'50"E

Curve #	Length	Radius	Delta
C1	61.62	290.00	12.17
C2	297.20	290.00	58.72
C4	117.20	410.00	16.38
C5	44.76	410.00	6.25
C6	45.56	410.00	6.37
C7	42.42	310.00	7.84
C8	92.13	734.84	7.18

212 N WAHATCH AVE. STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

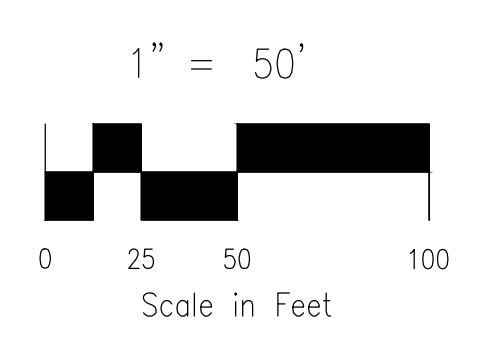
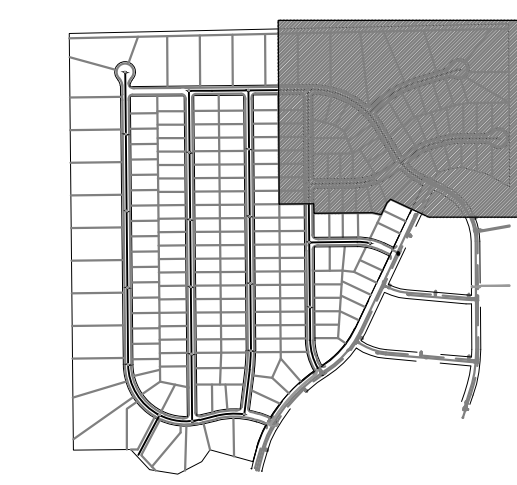
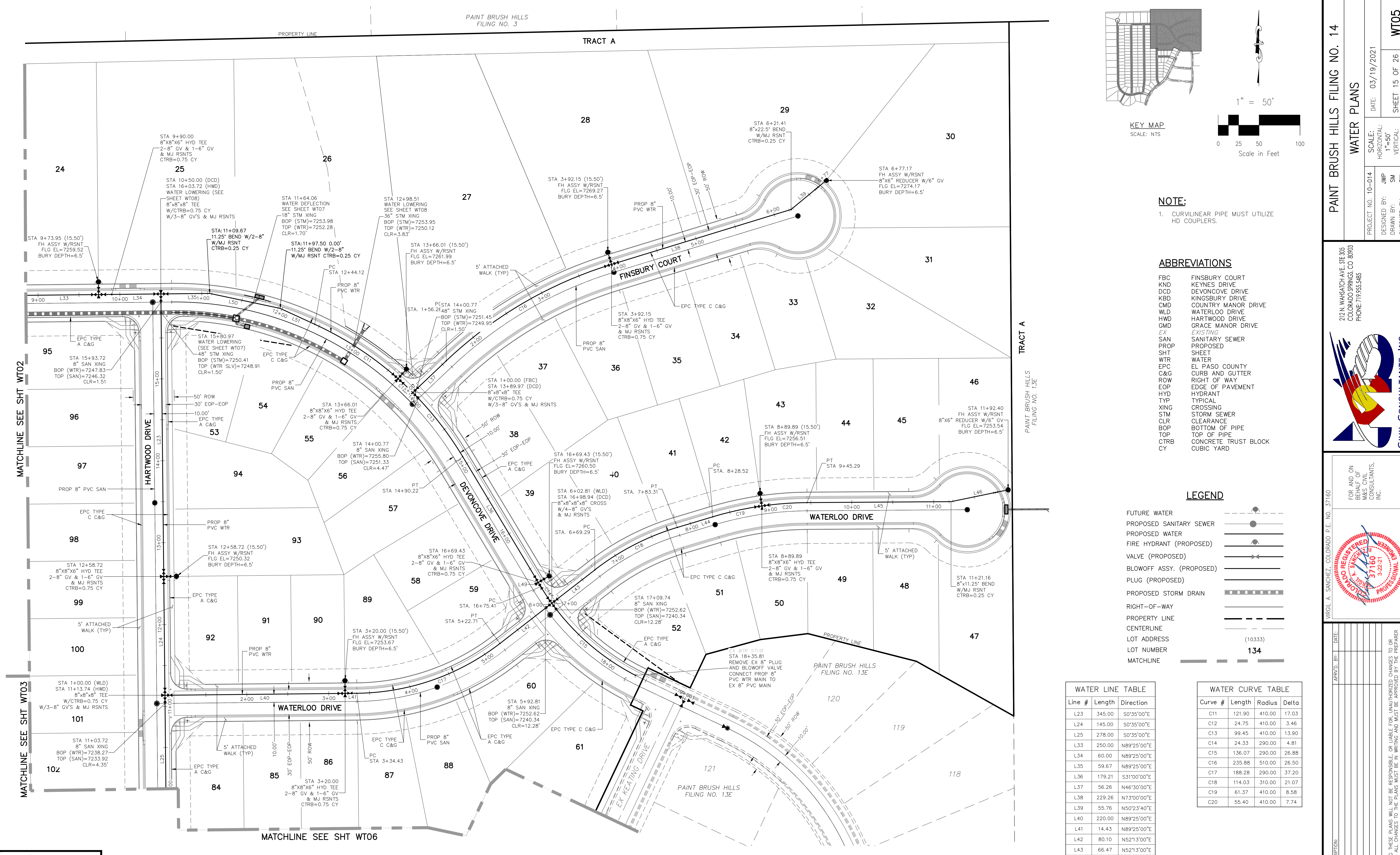
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CAUTION

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PAINT BRUSH HILLS FILING NO. 3

TRACT A



NOTE:
1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

ABBREVIATIONS

- FBC FINSBURY COURT
- KND KEYNES DRIVE
- DCD DEVONCOVE DRIVE
- KBD KINGSBURY DRIVE
- CMD COUNTRY MANOR DRIVE
- WLD WATERLOO DRIVE
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- GMD GRACE MANOR DRIVE
- EX EXISTING
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- PROP PROPOSED
- SHT SHEET
- WTR WATER
- EPC EL PASO COUNTY CURB AND GUTTER
- C&G RIGHT OF WAY
- ROW EDGE OF PAVEMENT
- EOP TYPICAL
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- TYP TYPICAL
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- CLR CLEARANCE
- BOP BOTTOM OF PIPE
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LEGEND

- FUTURE WATER
- PROPOSED SANITARY SEWER
- PROPOSED WATER
- FIRE HYDRANT (PROPOSED)
- VALVE (PROPOSED)
- BLOWOFF ASSY. (PROPOSED)
- PLUG (PROPOSED)
- PROPOSED STORM DRAIN
- RIGHT-OF-WAY
- PROPERTY LINE
- CENTERLINE
- LOT ADDRESS (10333)
- LOT NUMBER 134
- MATCHLINE

Line #	Length	Direction
L23	345.00	S0°35'00"E
L24	145.00	S0°35'00"E
L25	278.00	S0°35'00"E
L33	250.00	N89°25'00"E
L34	60.00	N89°25'00"E
L35	59.67	N89°25'00"E
L36	179.21	S31°00'00"E
L37	56.26	N46°30'00"E
L38	229.26	N73°00'00"E
L39	55.76	N50°23'40"E
L40	220.00	N89°25'00"E
L41	14.43	N89°25'00"E
L42	80.10	N52°13'00"E
L43	66.47	N52°13'00"E
L44	45.21	N73°17'30"E
L45	175.87	N89°36'40"E
L46	71.23	N78°21'40"E
L49	5.98	S31°00'00"E
L50	87.83	S77°59'10"E
L51	46.62	S65°23'30"E

Curve #	Length	Radius	Delta
C11	121.90	410.00	17.03
C12	24.75	410.00	3.46
C13	99.45	410.00	13.90
C14	24.33	290.00	4.81
C15	136.07	290.00	26.88
C16	235.88	510.00	26.50
C17	188.28	290.00	37.20
C18	114.03	310.00	21.07
C19	61.37	410.00	8.58
C20	55.40	410.00	7.74

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014
DATE: 03/19/2021

DESIGNED BY: JWP
DRAWN BY: SM
CHECKED BY: GW

SCALE: N/A
HORIZONTAL: 1"=50'
VERTICAL: N/A

SHEET 15 OF 26
WT05

212 N. WASHCATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

PROFESSIONAL ENGINEER
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:

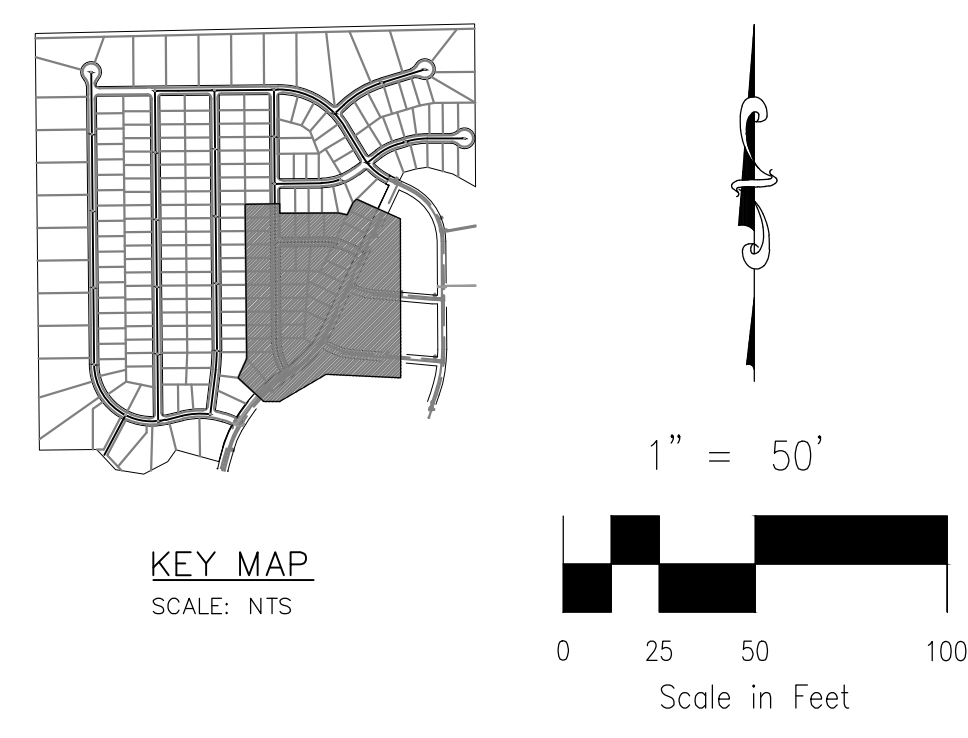
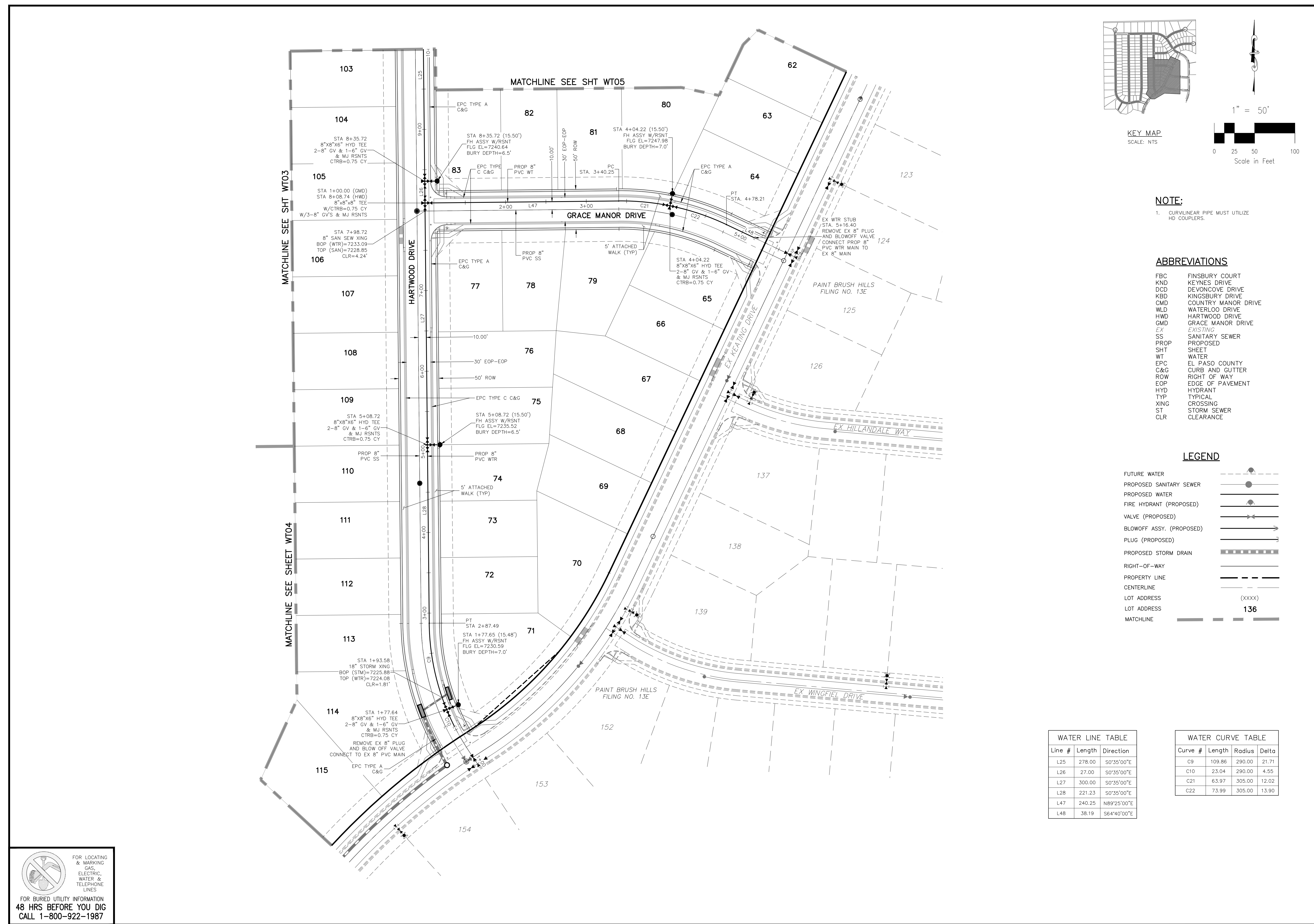
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CAUTION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

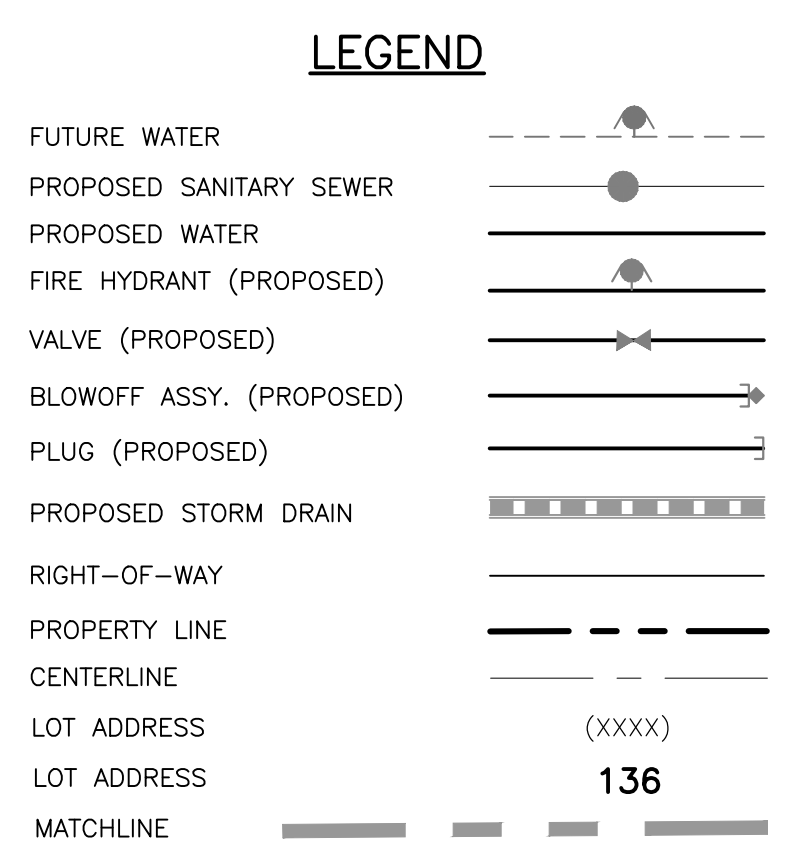
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NOTE:
1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

- ABBREVIATIONS**
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 - EX EXISTING
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 - PROP PROPOSED
 - SHT SHEET
 - WT WATER
 - EPC EL PASO COUNTY CURB AND GUTTER
 - C&G CURB AND GUTTER
 - ROW RIGHT OF WAY
 - EOP EDGE OF PAVEMENT
 - HYD HYDRANT
 - TYP TYPICAL
 - XING CROSSING
 - ST STORM SEWER
 - CLR CLEARANCE



WATER LINE TABLE

Line #	Length	Direction
L25	278.00	S0°35'00"E
L26	27.00	S0°35'00"E
L27	300.00	S0°35'00"E
L28	221.23	S0°35'00"E
L47	240.25	N89°25'00"E
L48	38.19	S64°40'00"E

WATER CURVE TABLE

Curve #	Length	Radius	Delta
C9	109.86	290.00	21.71
C10	23.04	290.00	4.55
C21	63.97	305.00	12.02
C22	73.99	305.00	13.90

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014
DATE: 03/19/2021
SCALE: N/A
DESIGNED BY: JWP
DRAWN BY: SM
CHECKED BY: GW

212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

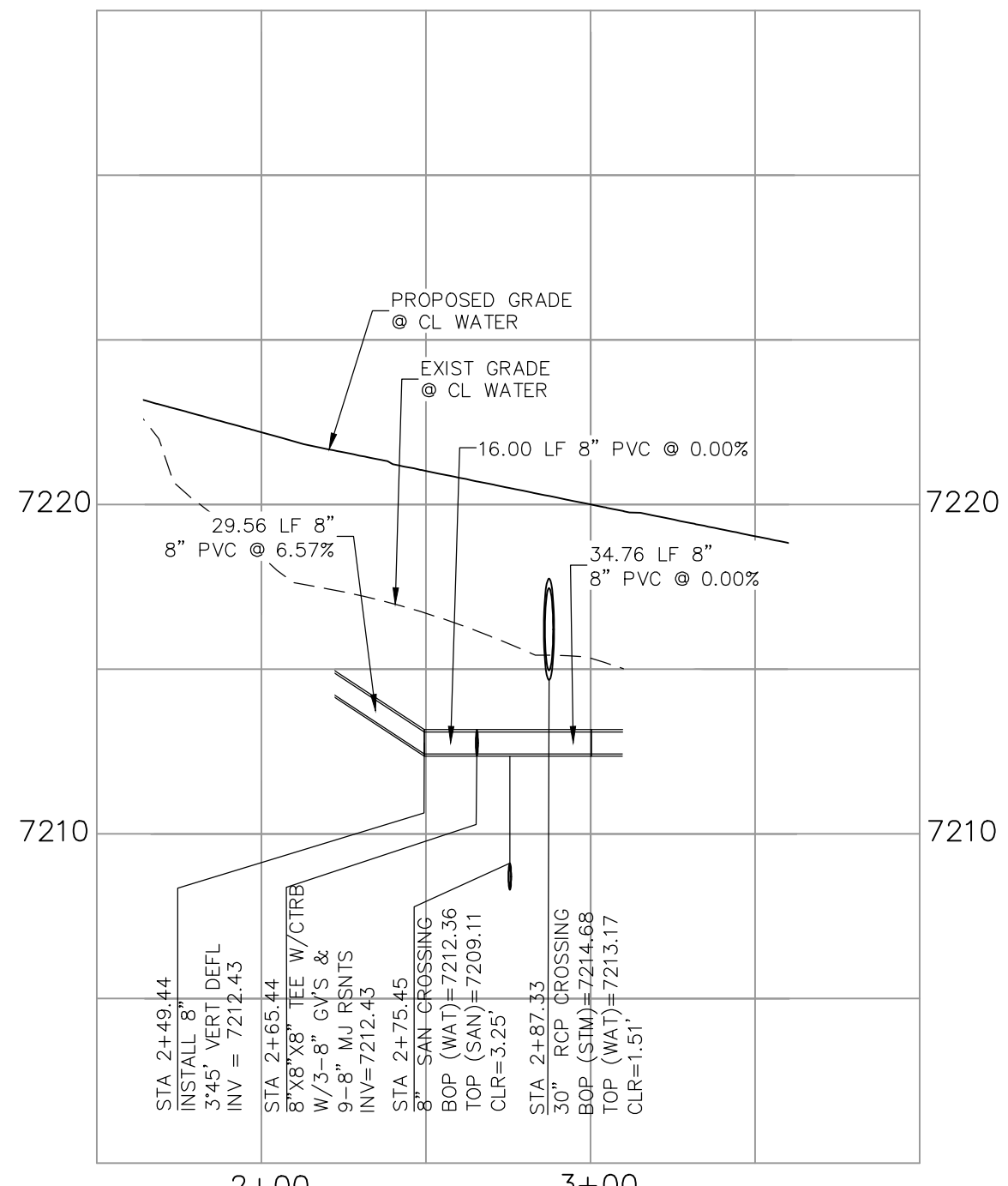
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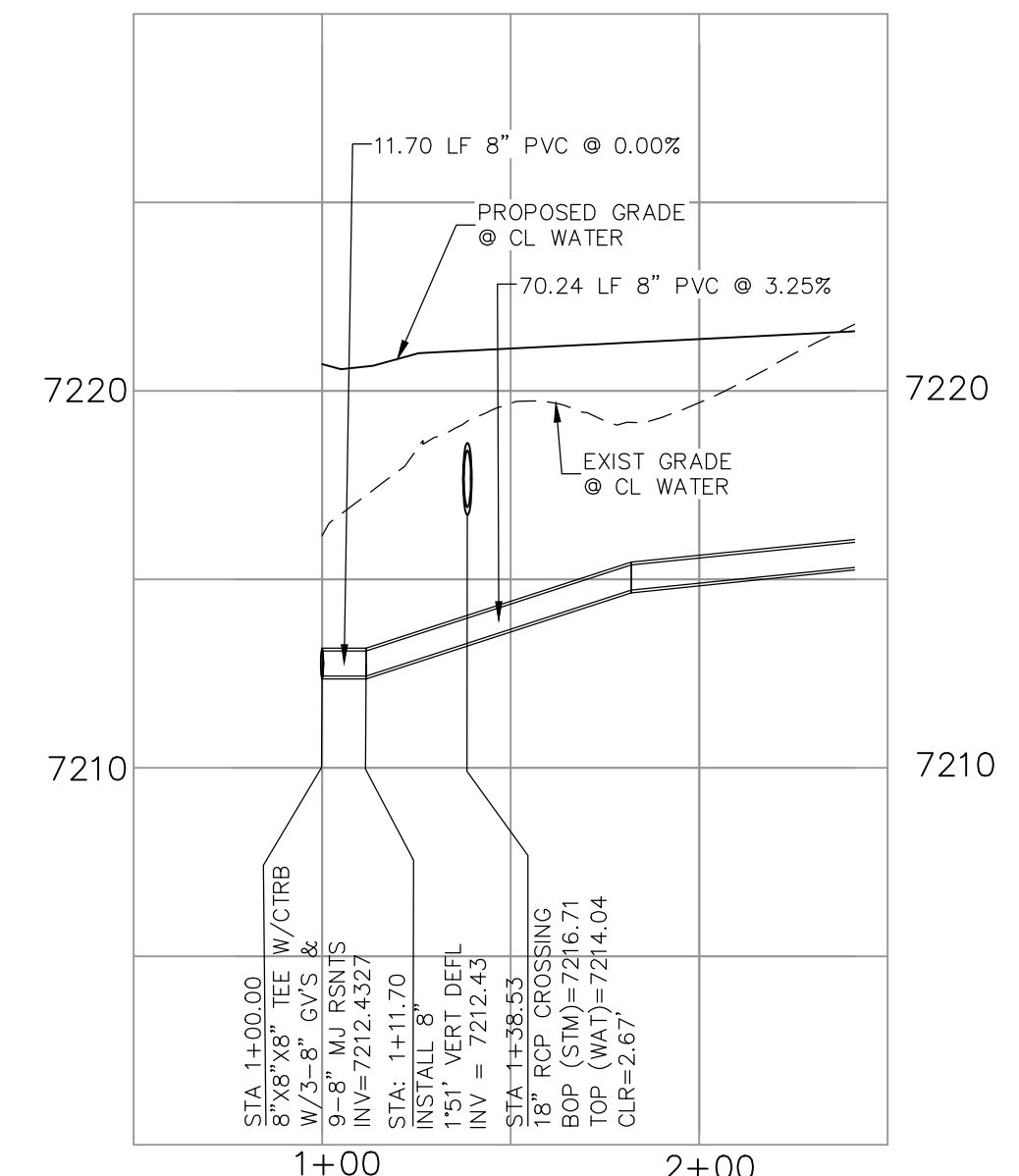
CAUTION

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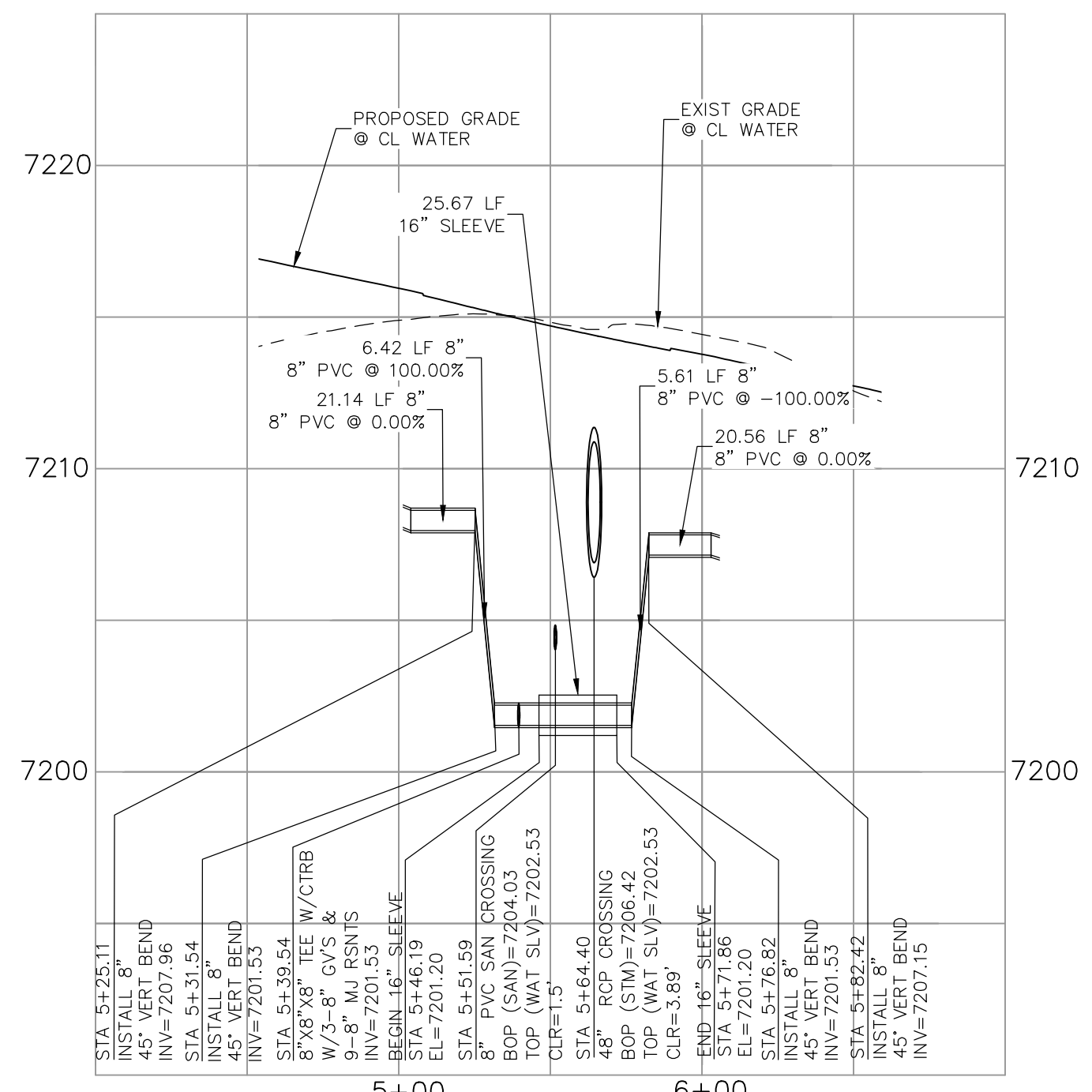
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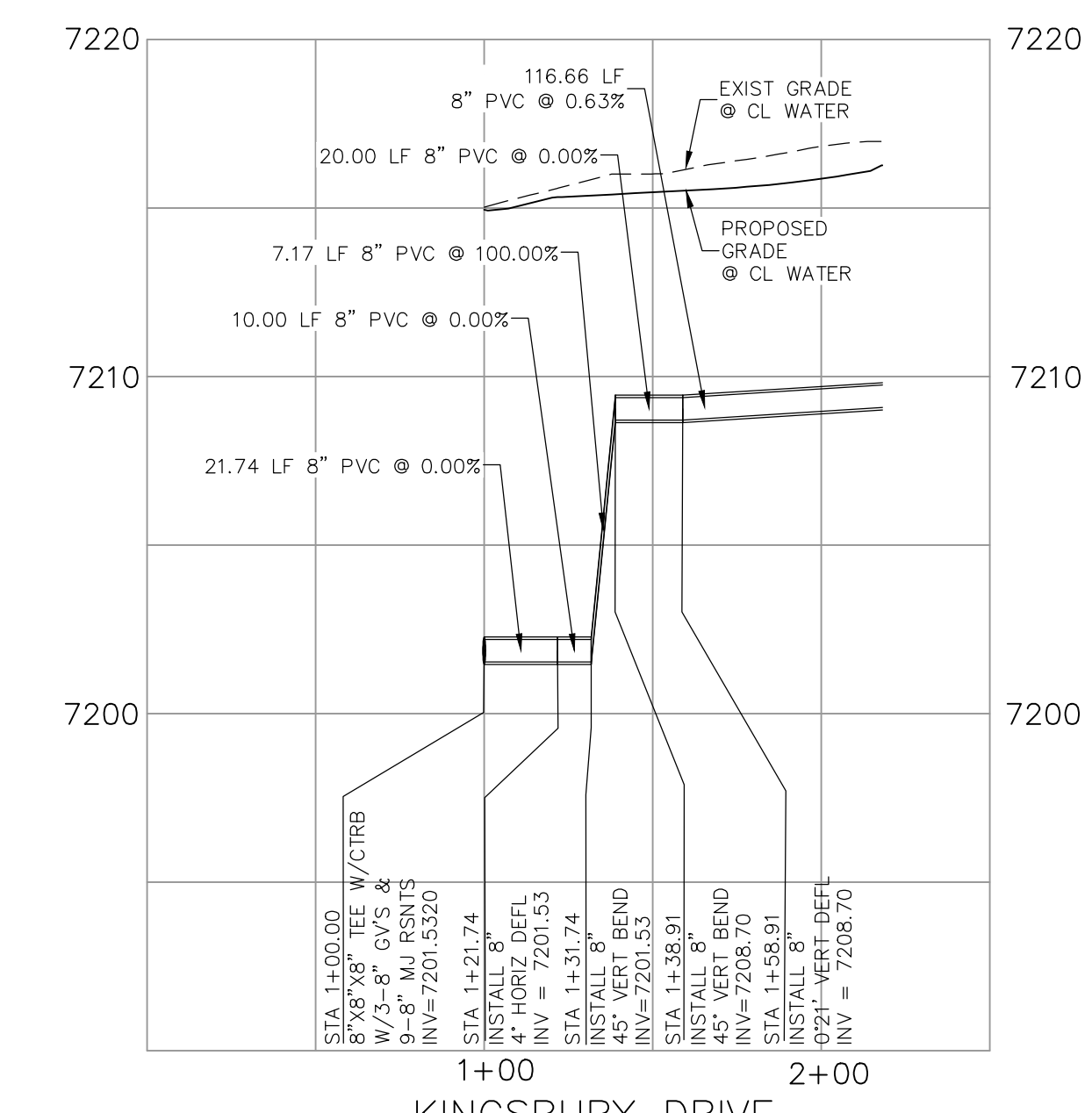
KEYNES DRIVE
WATER HALF DEFLECTION
STA 2+87.33



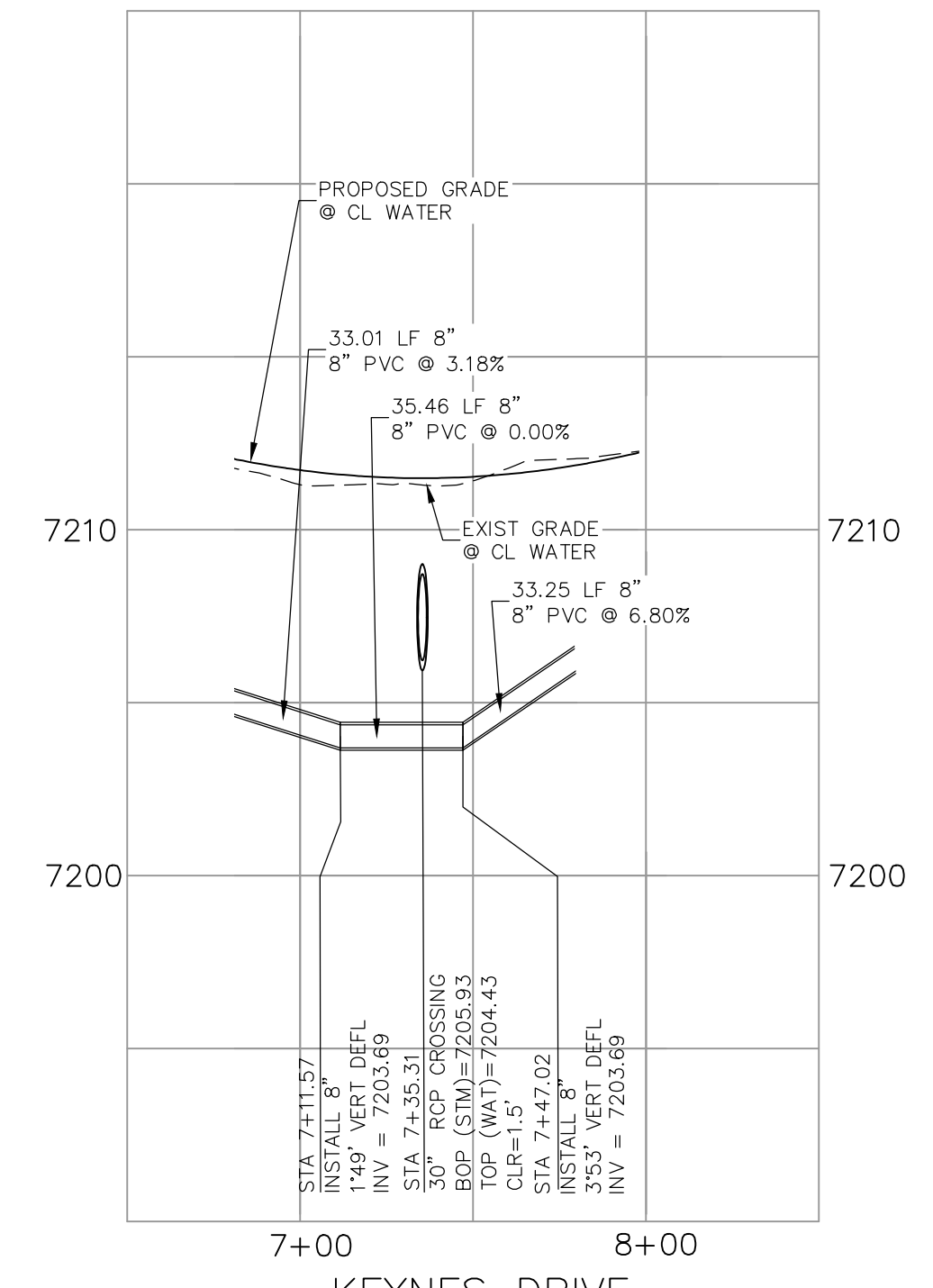
COUNTRY MANOR DRIVE
WATER HALF DEFLECTION
STA 1+00.00



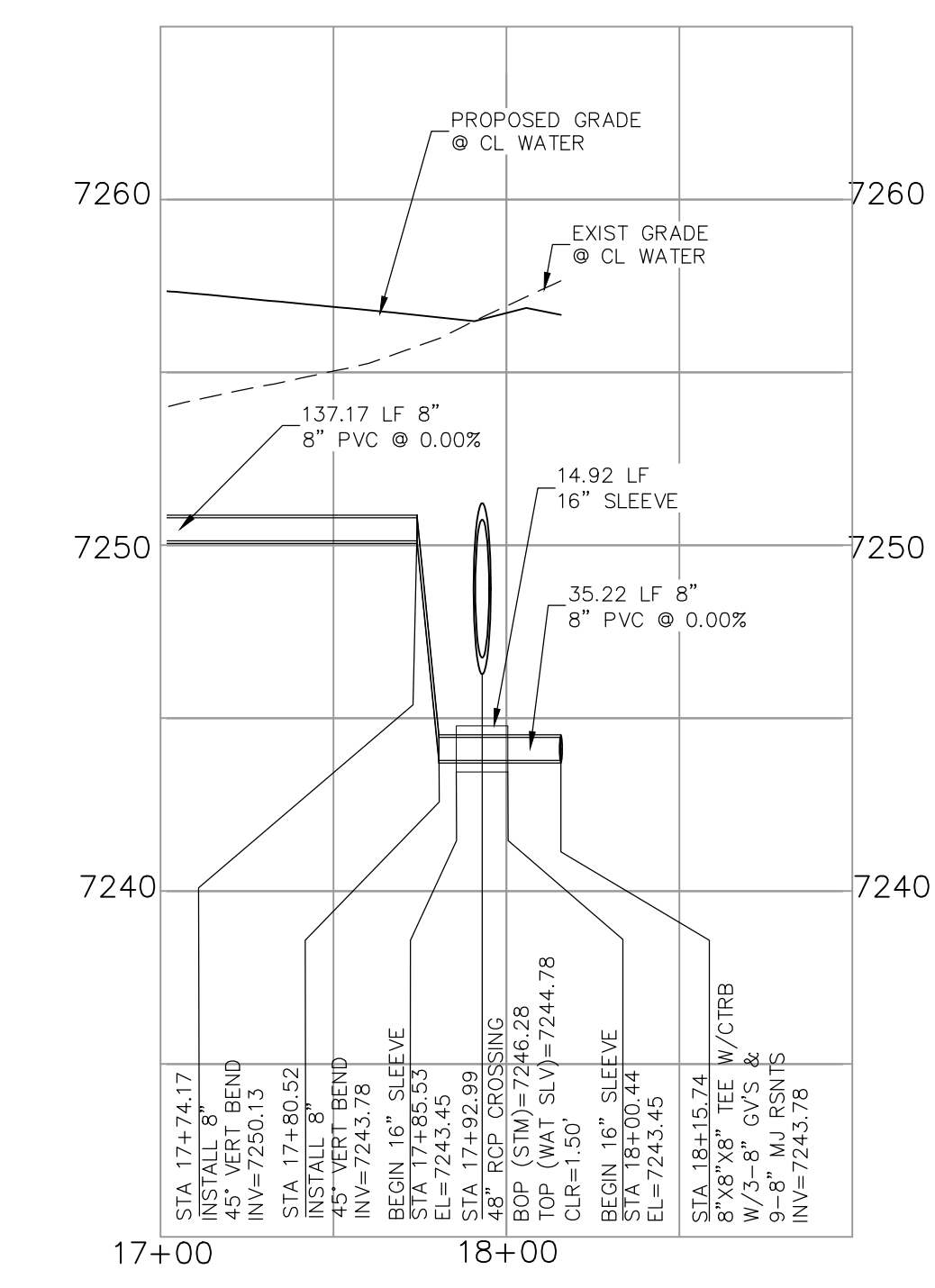
KEYNES DRIVE
WATER LOWERING
STA 5+64.40



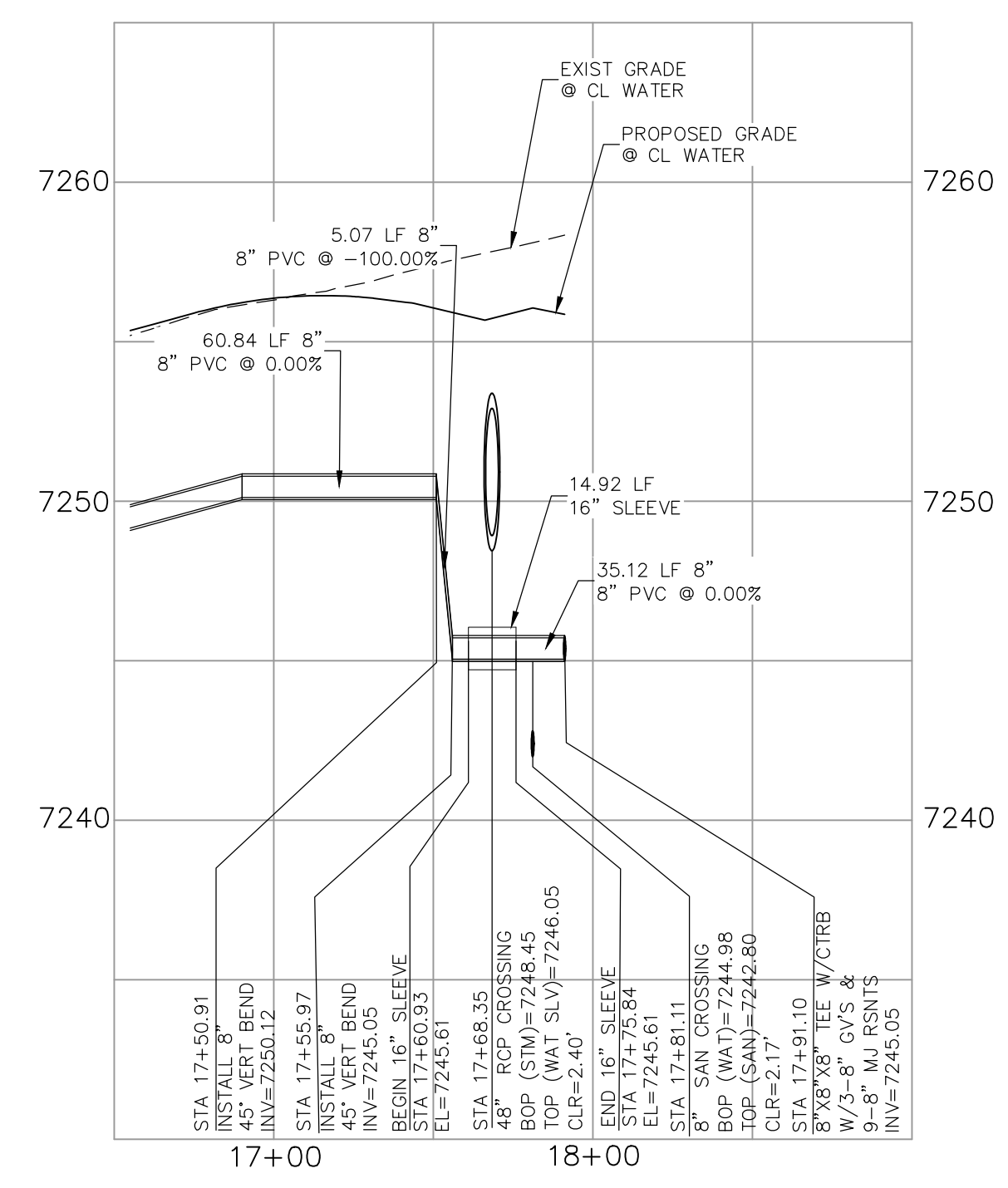
KINGSBURY DRIVE
WATER HALF LOWERING
STA 1+00.00



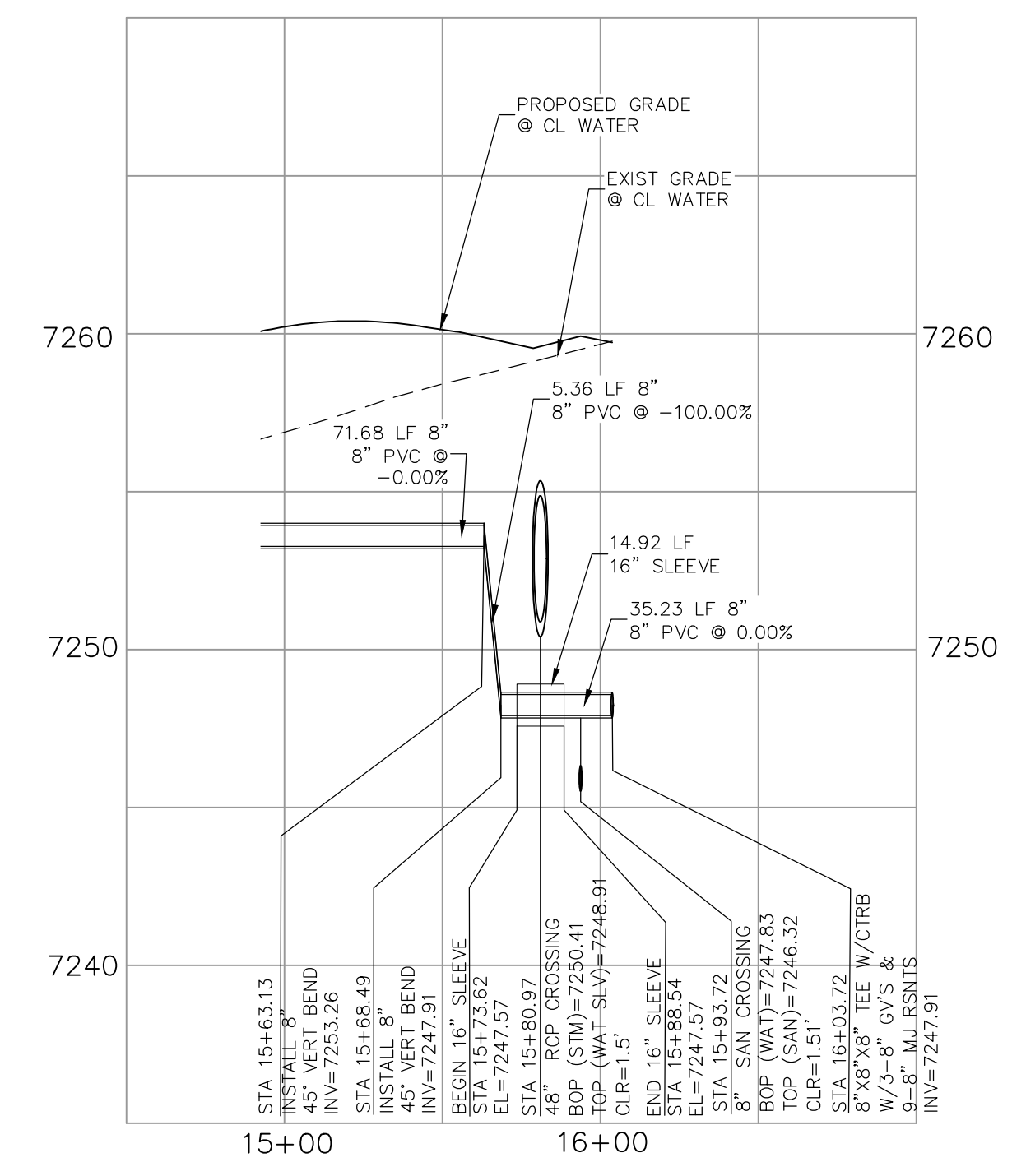
KEYNES DRIVE
WATER DEFLECTION
STA 7+35.31



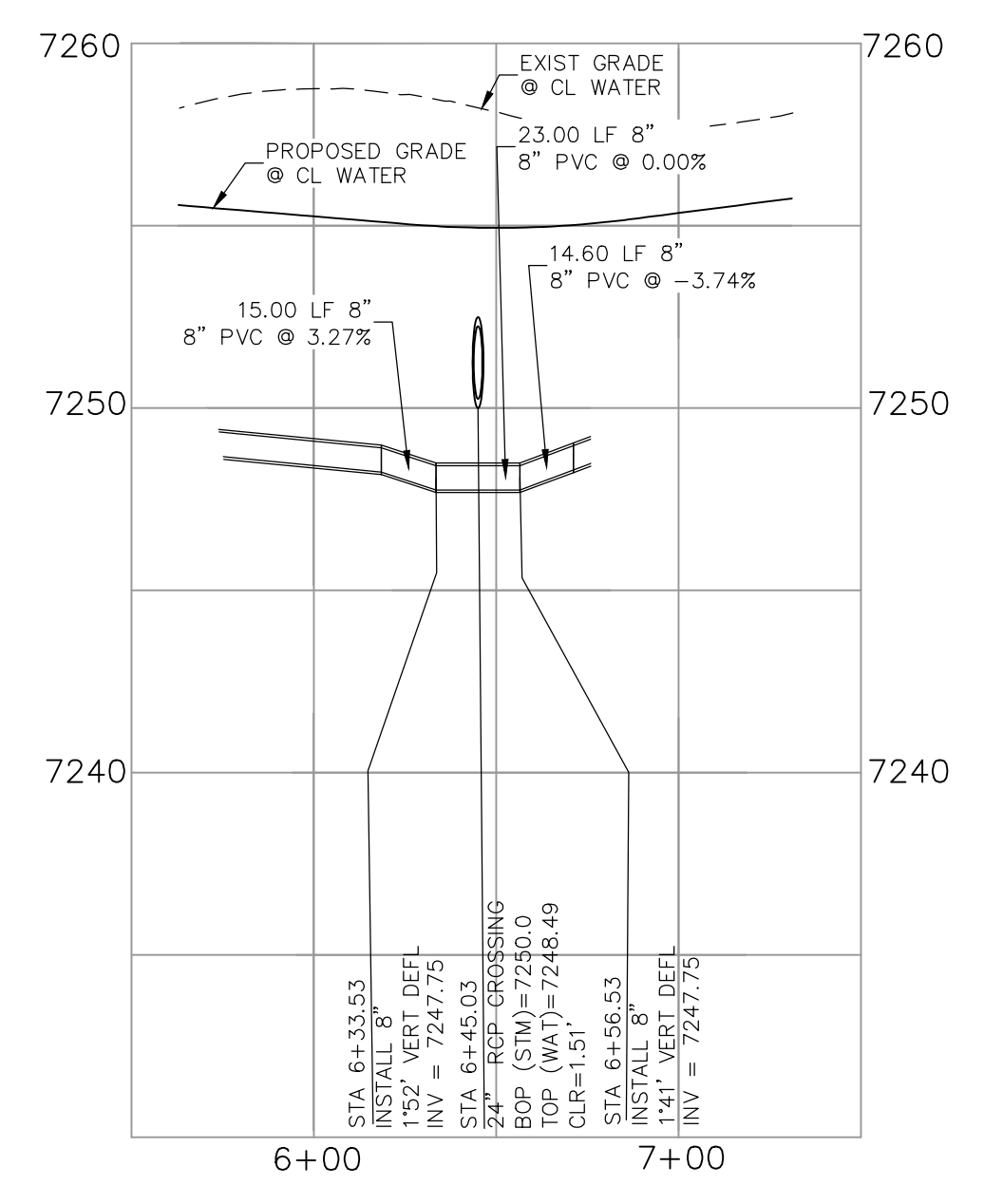
KINGSBURY DRIVE
WATER HALF LOWERING
STA 17+92.99



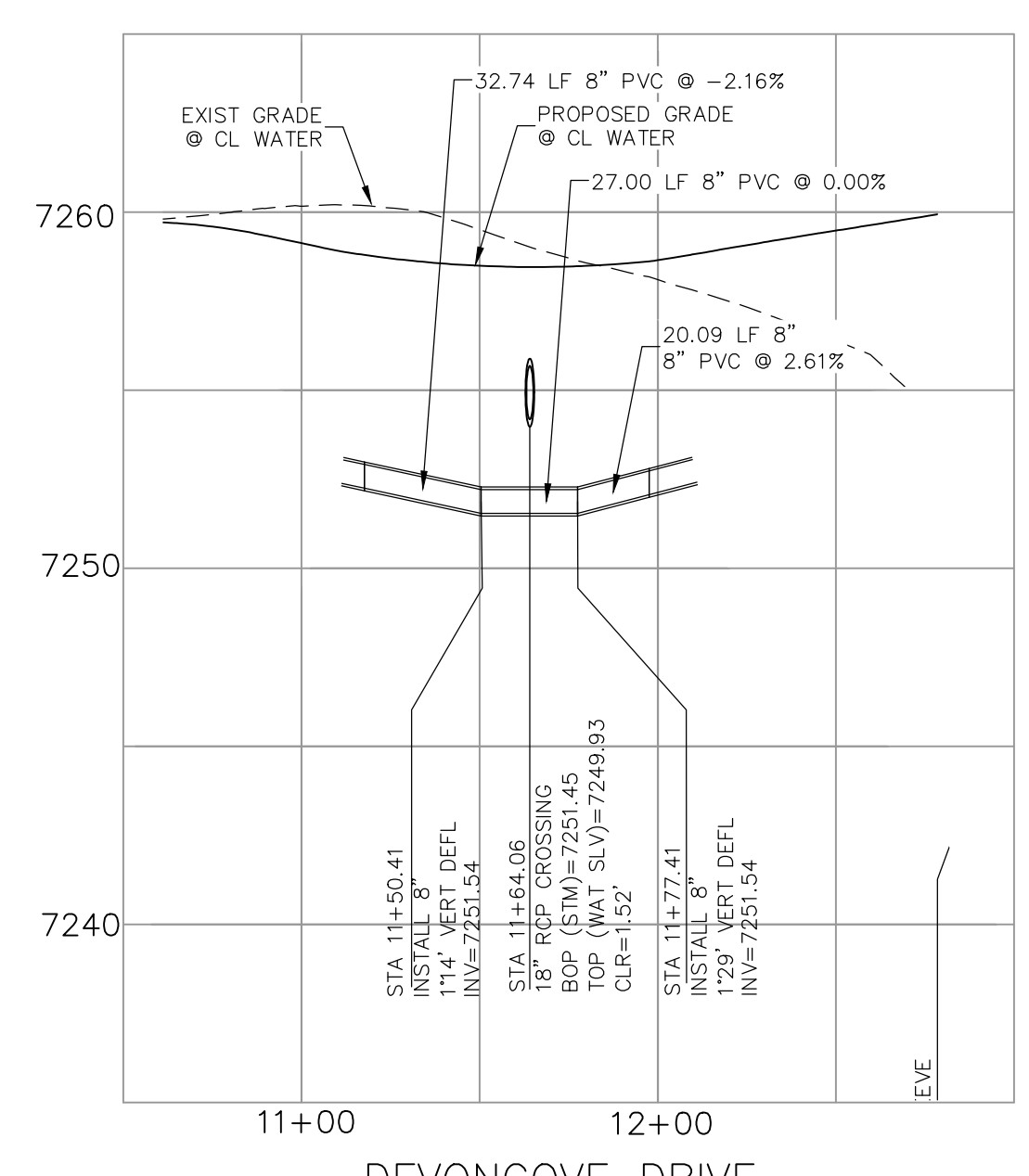
COUNTRY MANOR DRIVE
WATER HALF LOWERING
STA 17+68.35



HARTWOOD DRIVE
WATER HALF LOWERING
STA 15+80.97

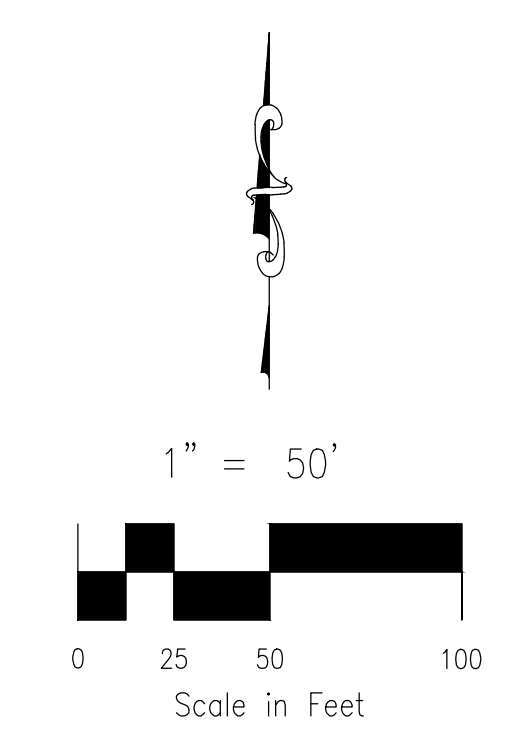


DEVONCOVE DRIVE
WATER DEFLECTION
STA 6+45.03

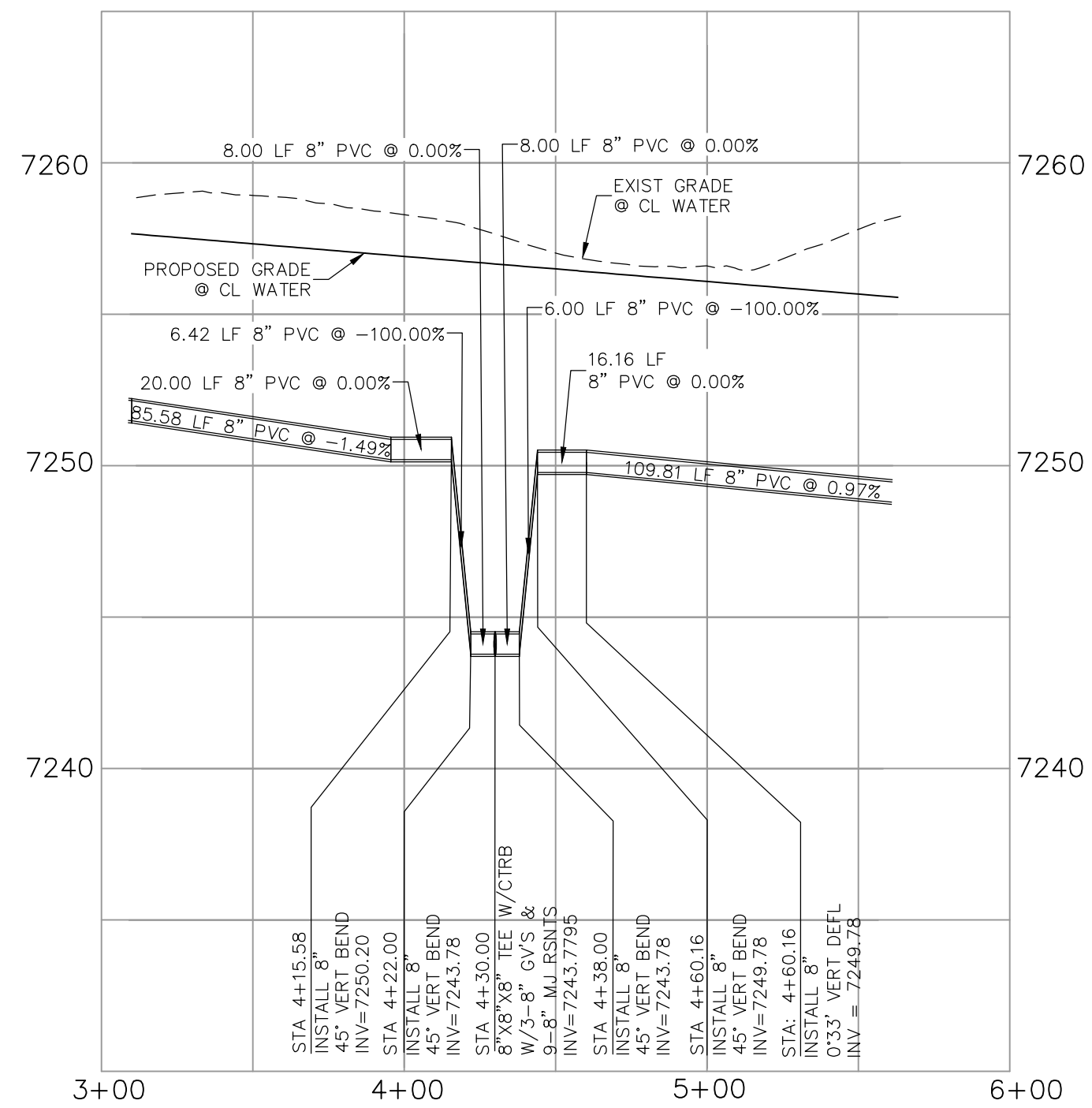


DEVONCOVE DRIVE
WATER DEFLECTION
STA 11+64.06

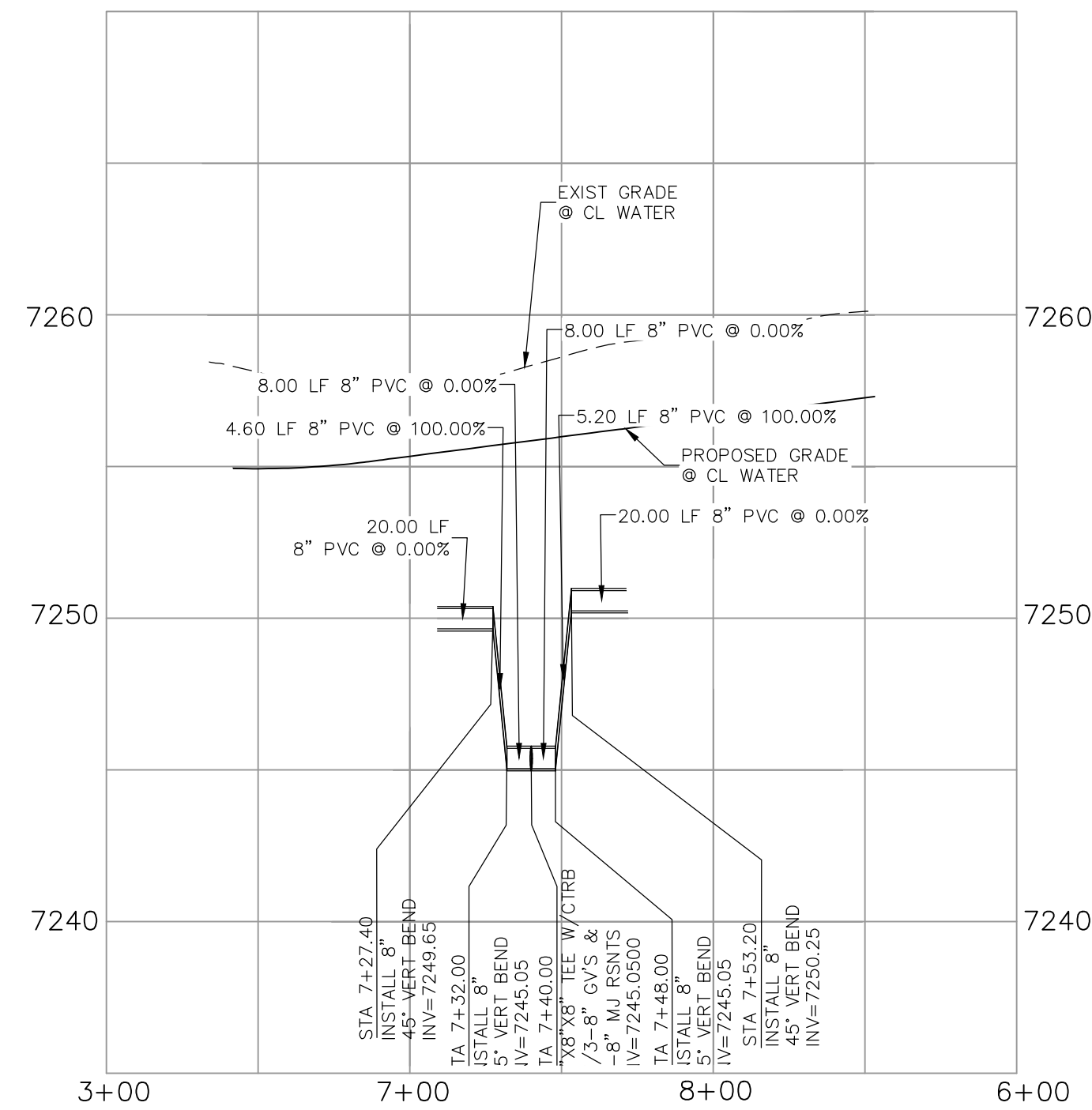
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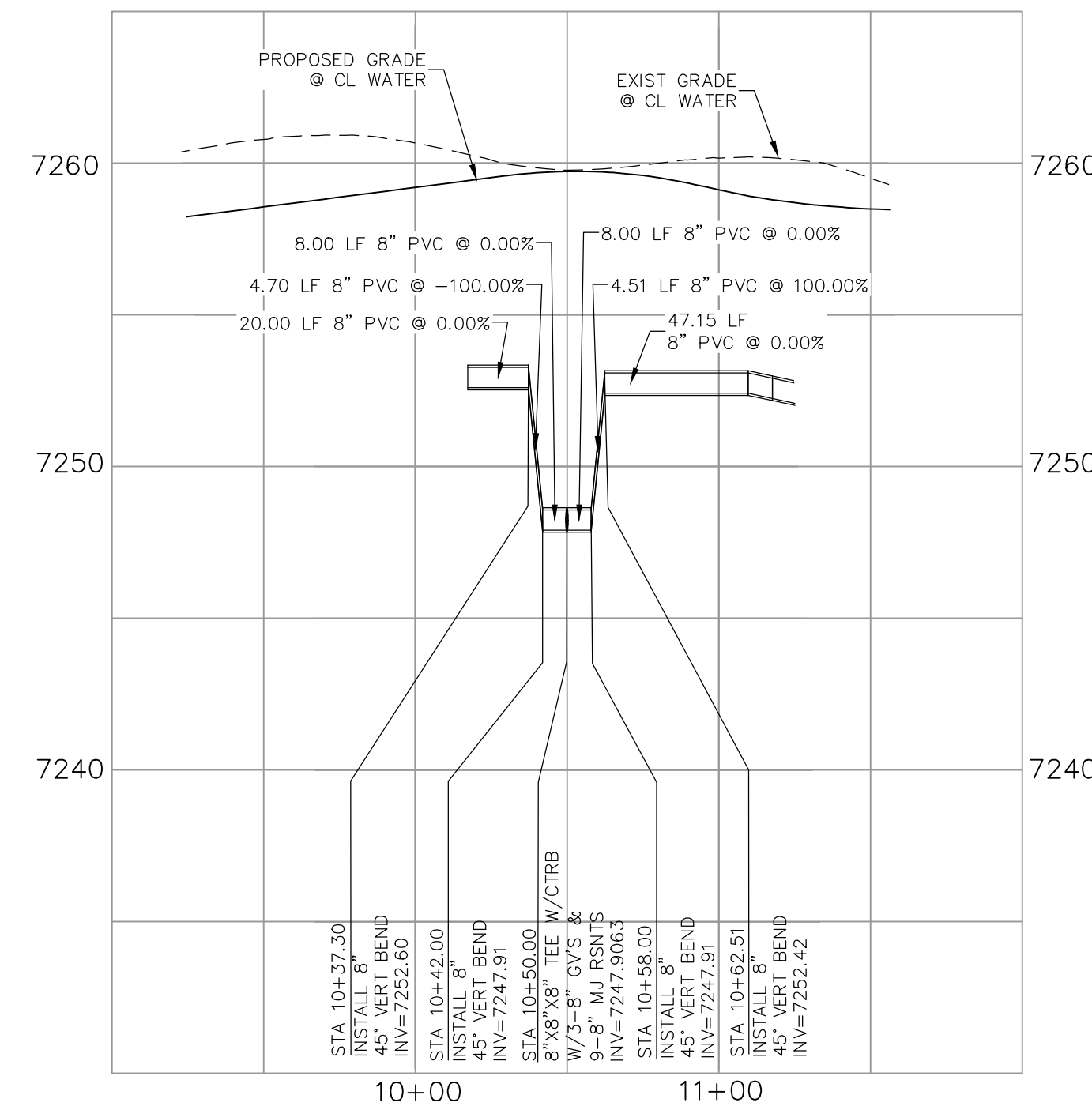
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WATER LOWERING & DEFLECTION DETAILS
PROJECT NO. 10-014 DATE: 03/19/2021
DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50'
DRAWN BY: SM VERTICAL: 1"=5'
CHECKED BY: GW
212 N. WABATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485
CIVIL CONSULTANTS, INC.
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
REGISTERED PROFESSIONAL ENGINEER
3-22-21
REVISIONS: NO. DATE BY: DESCRIPTION
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CAUTION



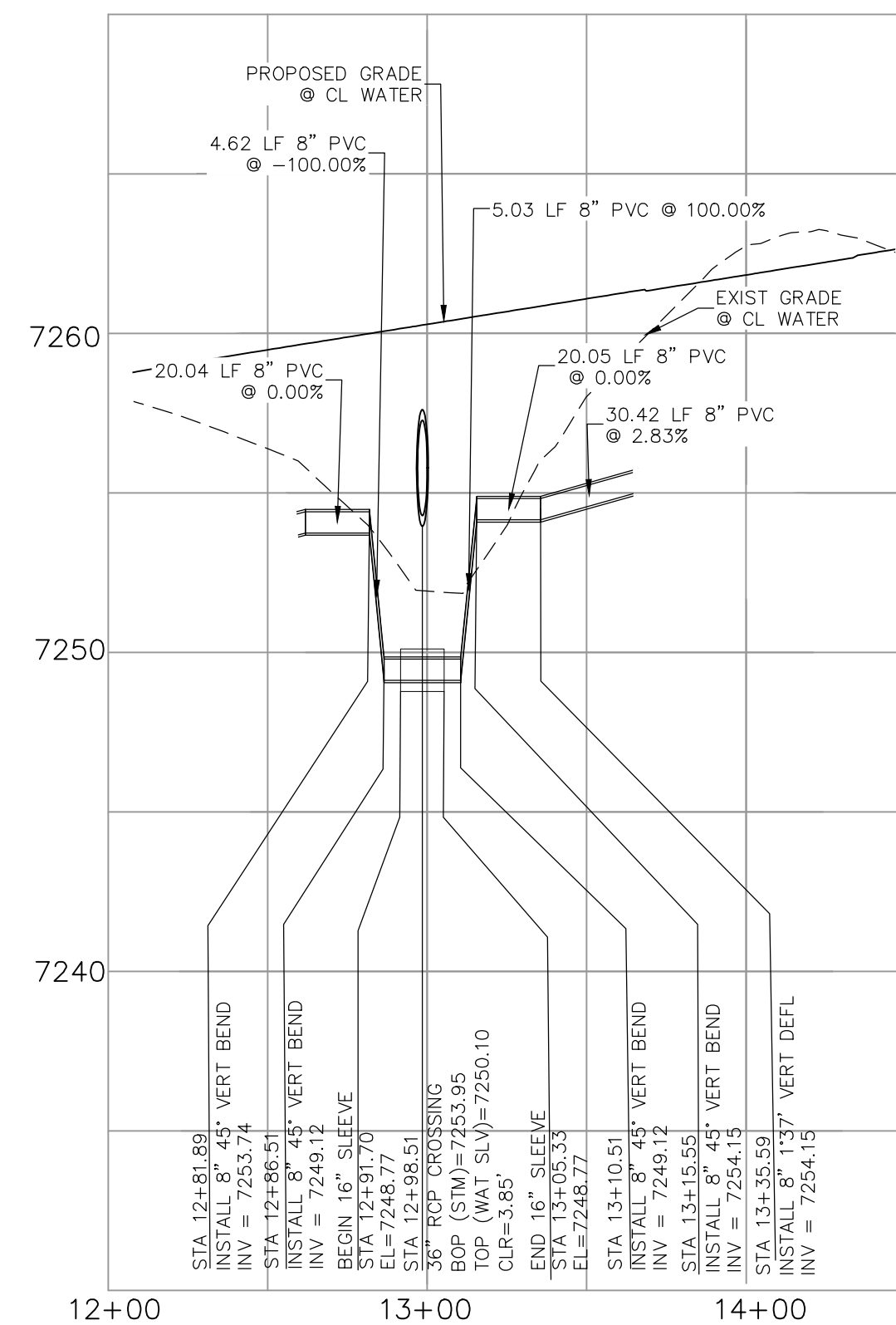
DEVONCOVE DRIVE
WATER LOWERING
STA 4+30.00



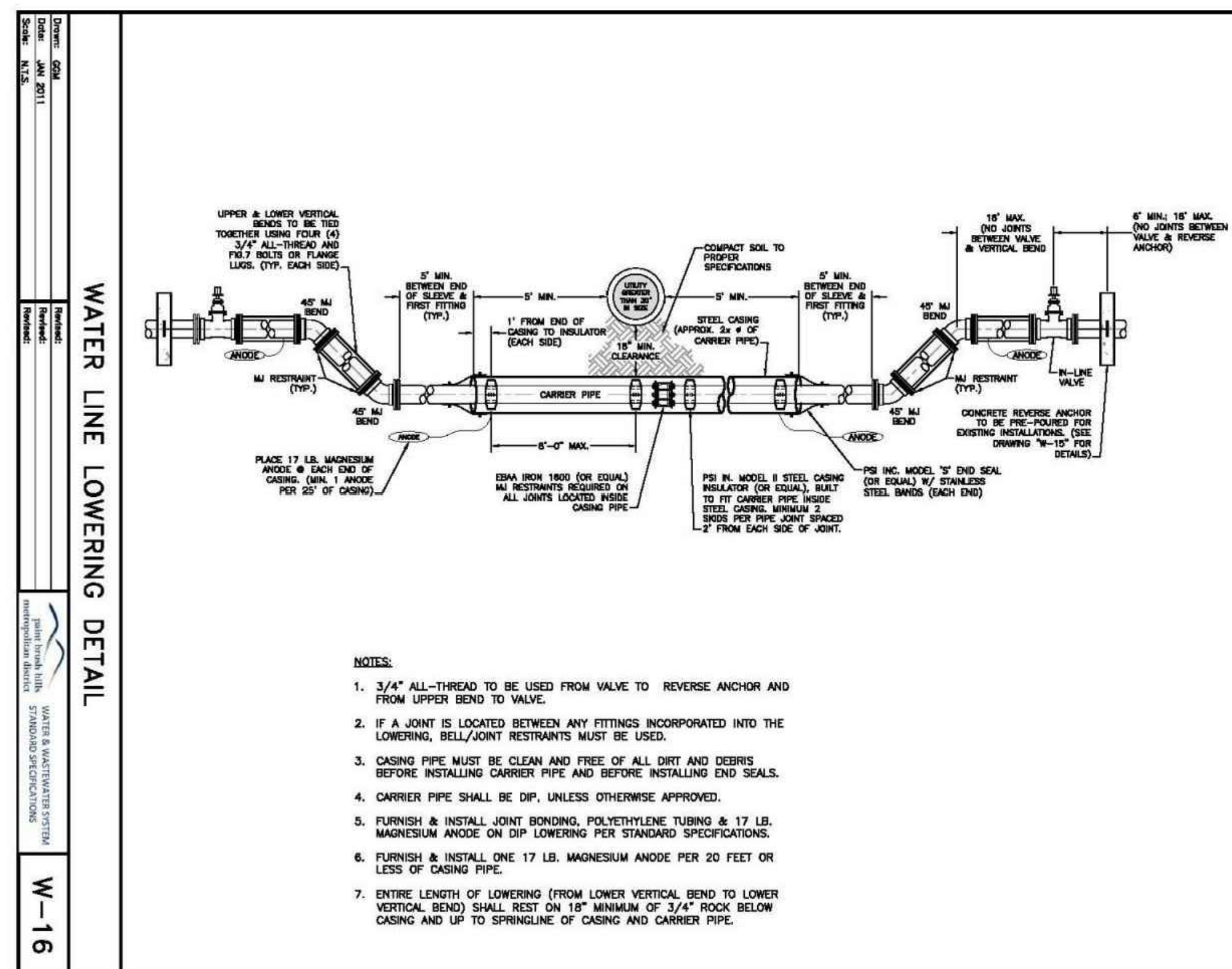
DEVONCOVE DRIVE
WATER LOWERING
STA 7+40.00



DEVONCOVE DRIVE
WATER LOWERING
STA 10+50.00

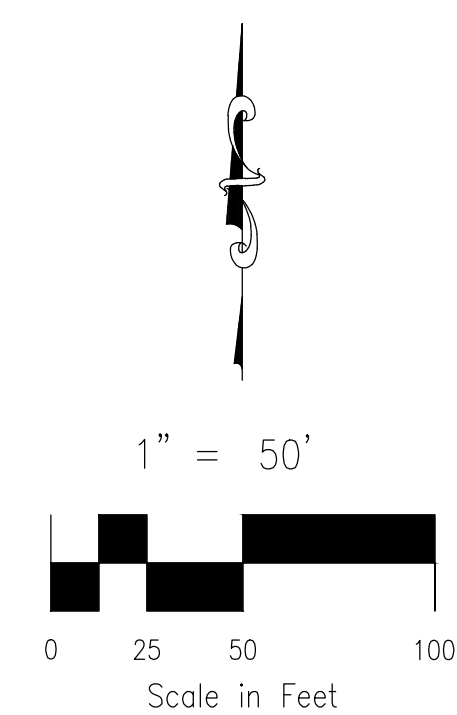


DEVONCOVE DRIVE
WATER LOWERING
STA 12+98.51



TYPICAL WATER LOWERING &
SLEEVE DETAIL

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PAINT BRUSH HILLS FILING NO. 14

WATER LOWERING & DEFLECTION DETAILS

PROJECT NO. 10-014 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: JWP DRAWN BY: SM CHECKED BY: GW
 SHEET 18 OF 26 WT08

212 N. WAHATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

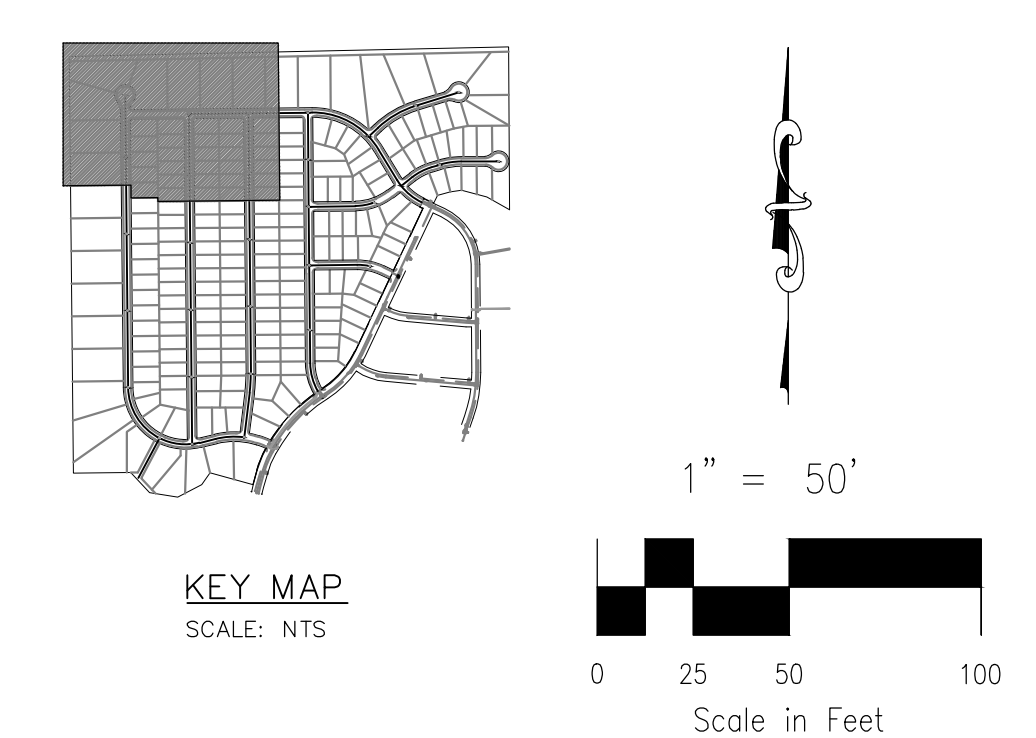
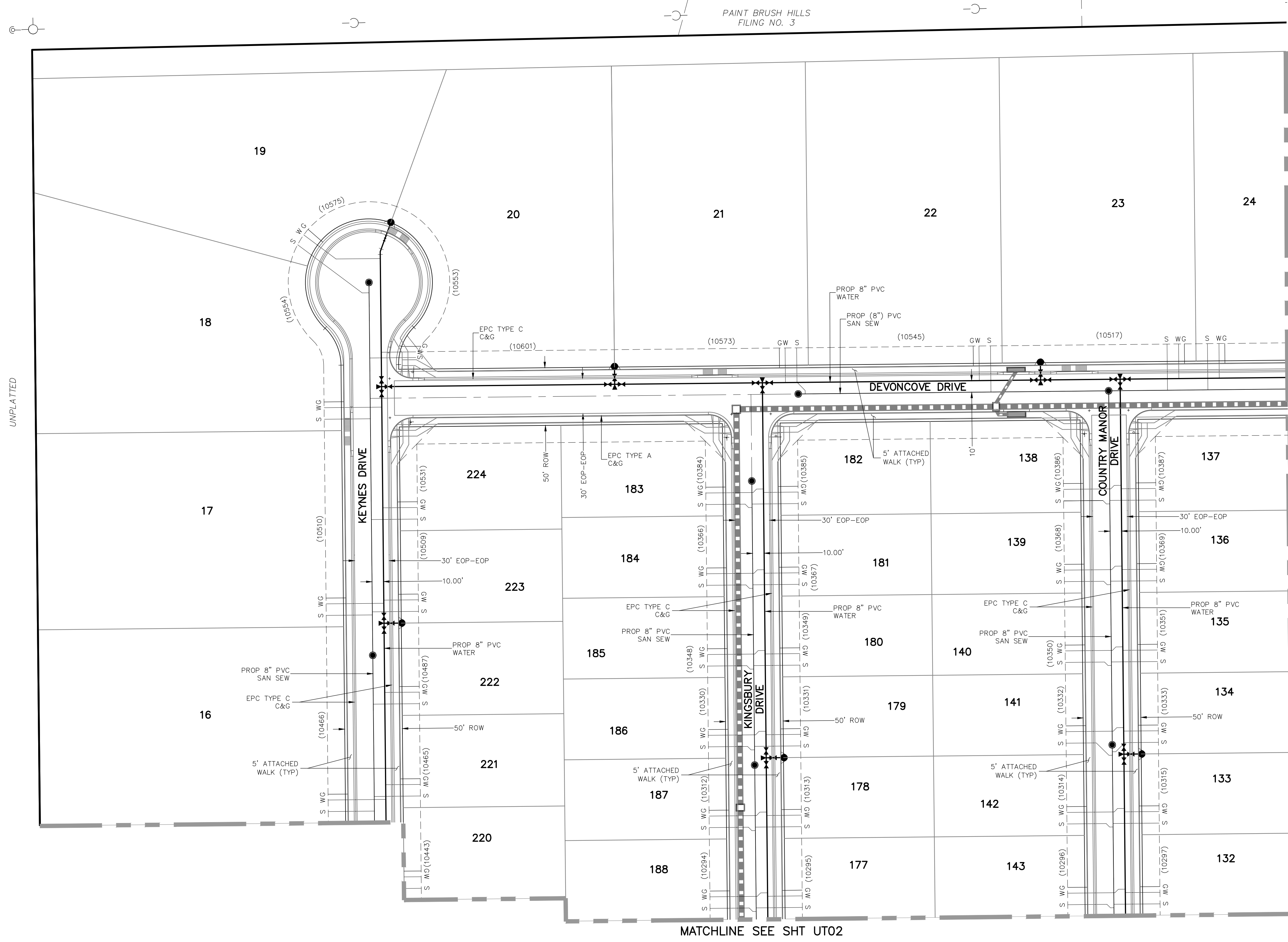
MARCIL A. SANCHEZ, COLORADO P.E. NO. 377160
 REGISTERED PROFESSIONAL ENGINEER
 3-22-21

NO.	DATE	BY	DESCRIPTION

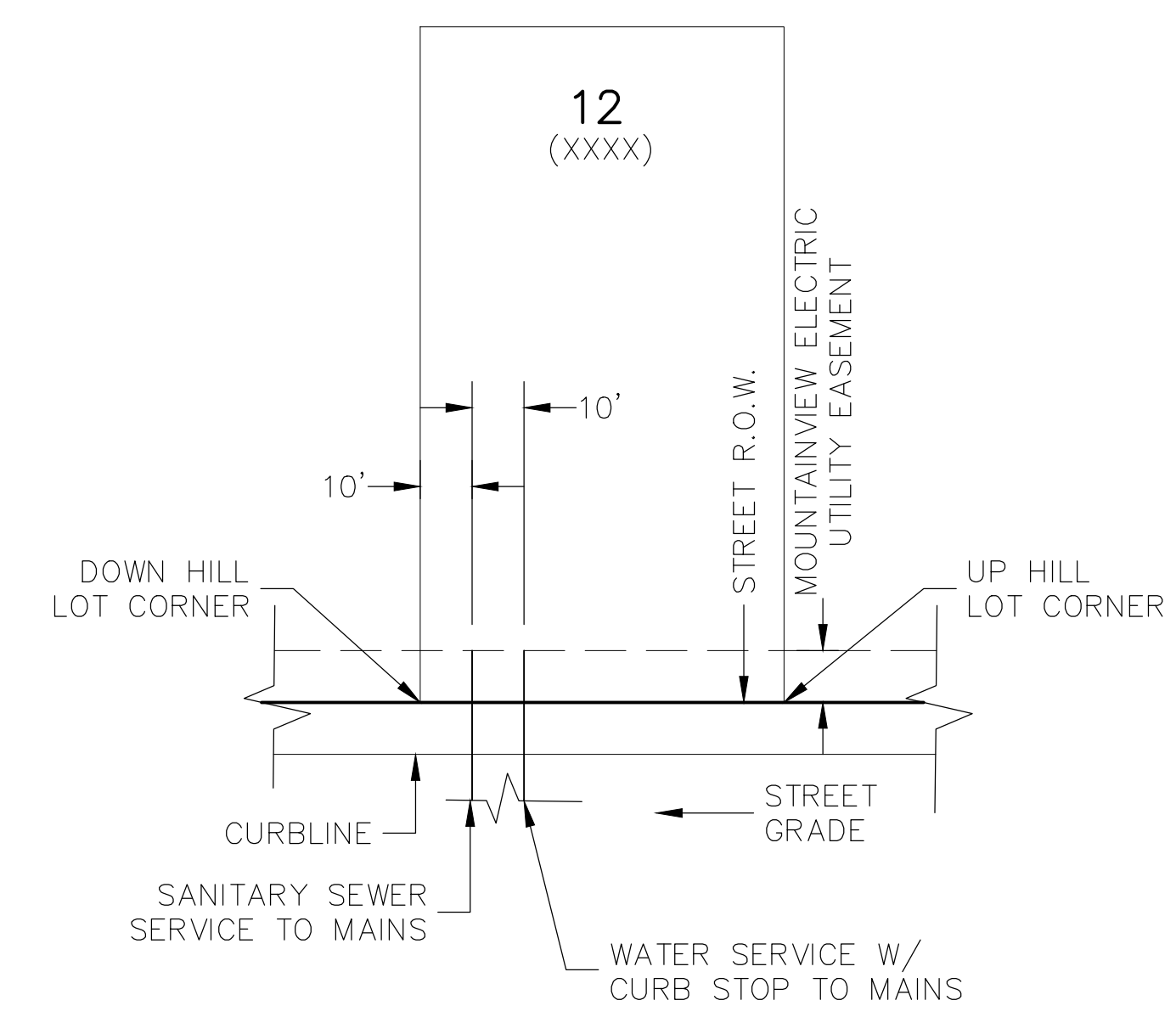
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CAUTION

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GENERAL NOTES:
 1. ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.



TYPICAL UTILITY SERVICE LOCATIONS DETAIL
 N.T.S.
 *SEE PLANS FOR NON-TYPICAL DIMENSIONS

- NOTES:**
1. DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
 2. SEE PAINT BRUSH HILLS METRO DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
 3. FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
 4. PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF THE GROUND 36" FROM FLOWLINE.
 5. WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4" BELOW FINISH GRADE.
 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
 7. RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
 8. ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
 9. ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
 10. ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
 11. HOMEBUILDER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
 12. MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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PAINT BRUSH HILLS FILING NO. 14

UTILITY SERVICE PLANS

PROJECT NO. 10-014 DATE: 03/19/2021
 SCALE: N/A
 HORIZONTAL: 1"=50'
 VERTICAL: N/A

DESIGNED BY: GW
 DRAWN BY: SM
 CHECKED BY: GW

212 N. WAHATCH AVE., STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

M&S CIVIL CONSULTANTS, INC.

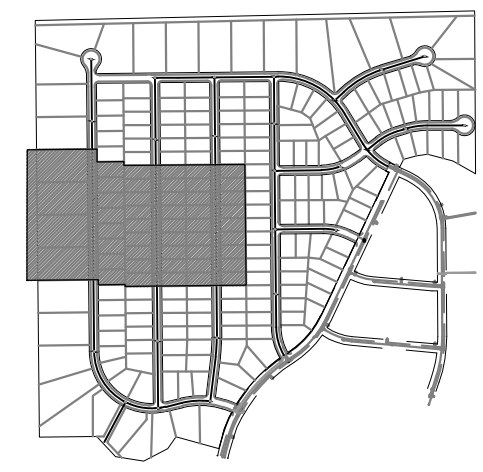
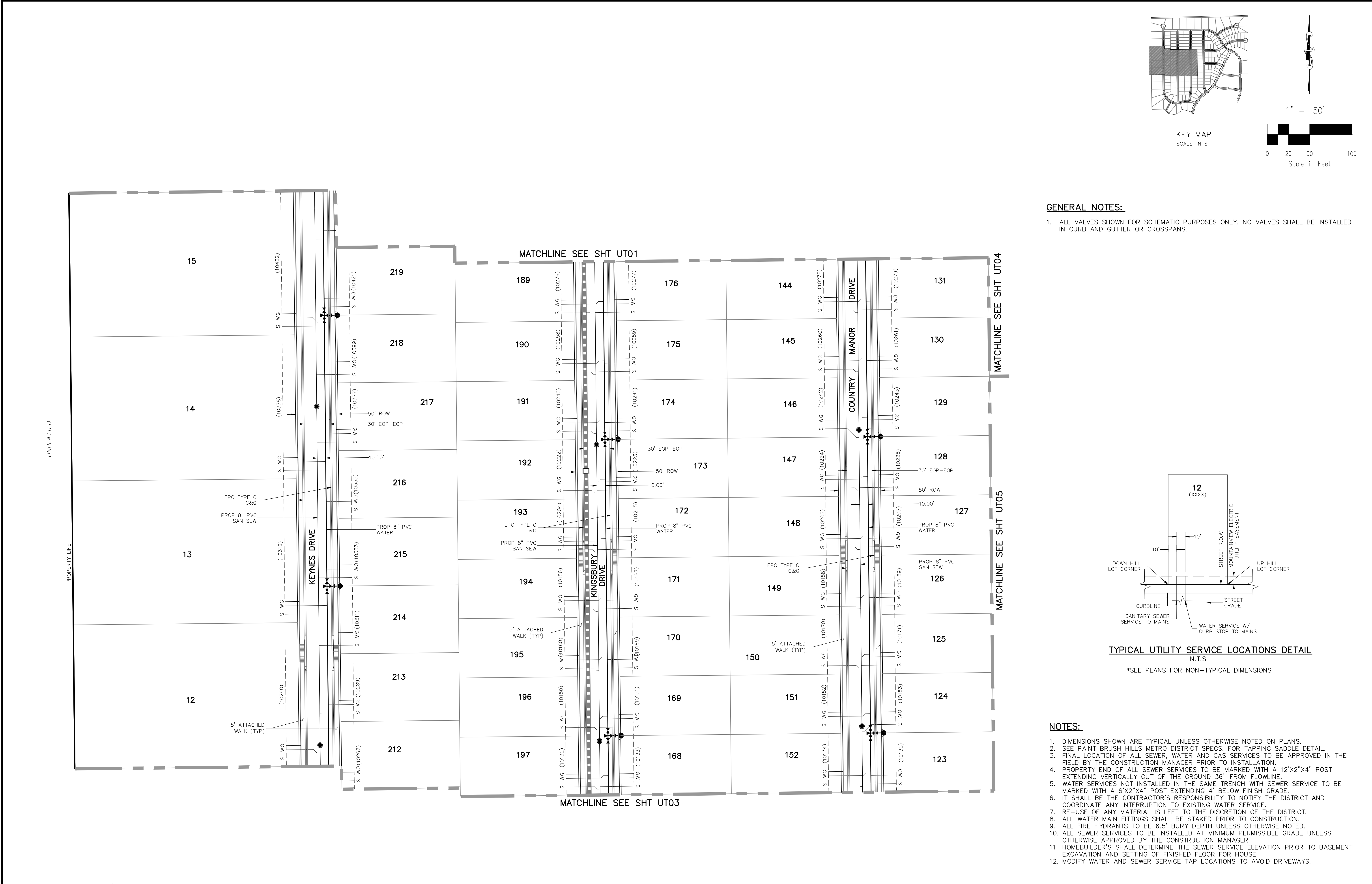
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

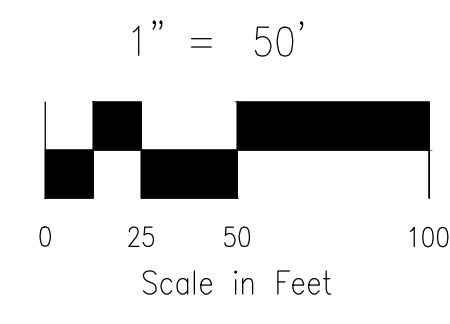
NO.	DATE	BY	DESCRIPTION

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CAUTION

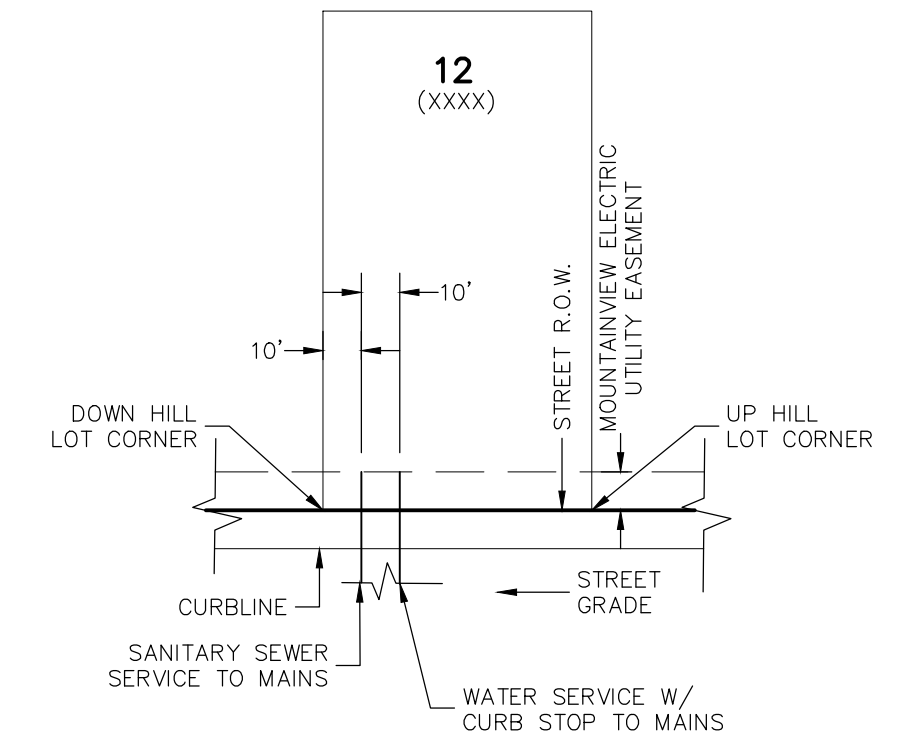


KEY MAP
SCALE: NTS



GENERAL NOTES:

1. ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSSPANS.



TYPICAL UTILITY SERVICE LOCATIONS DETAIL
N.T.S.

*SEE PLANS FOR NON-TYPICAL DIMENSIONS

NOTES:

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2. SEE PAINT BRUSH HILLS METRO DISTRICT SPECS. FOR TAPPING SADDLE DETAIL.
3. FINAL LOCATION OF ALL SEWER, WATER AND GAS SERVICES TO BE APPROVED IN THE FIELD BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
4. PROPERTY END OF ALL SEWER SERVICES TO BE MARKED WITH A 12"x2"x4" POST EXTENDING VERTICALLY OUT OF THE GROUND 36" FROM FLOWLINE.
5. WATER SERVICES NOT INSTALLED IN THE SAME TRENCH WITH SEWER SERVICE TO BE MARKED WITH A 6"x2"x4" POST EXTENDING 4" BELOW FINISH GRADE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DISTRICT AND COORDINATE ANY INTERRUPTION TO EXISTING WATER SERVICE.
7. RE-USE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DISTRICT.
8. ALL WATER MAIN FITTINGS SHALL BE STAKED PRIOR TO CONSTRUCTION.
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12. MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS.

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987

PAINT BRUSH HILLS FILING NO. 14

UTILITY SERVICE PLANS

DATE: 03/19/2021

SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A

PROJECT NO. 10-014

DESIGNED BY: GW

DRAWN BY: SM

CHECKED BY: GW

SHEET 20 OF 26

UT02

212 N. WAHATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

MIRCIU A. SANCHEZ, COLORADO P.E. NO. 37160

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

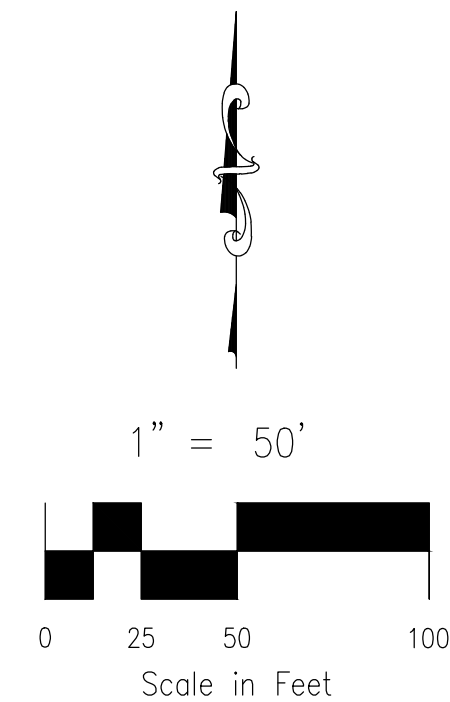
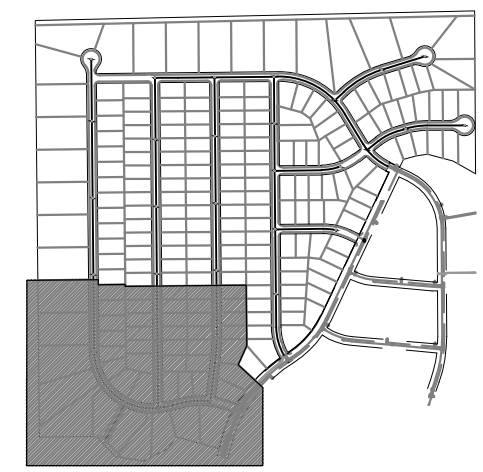
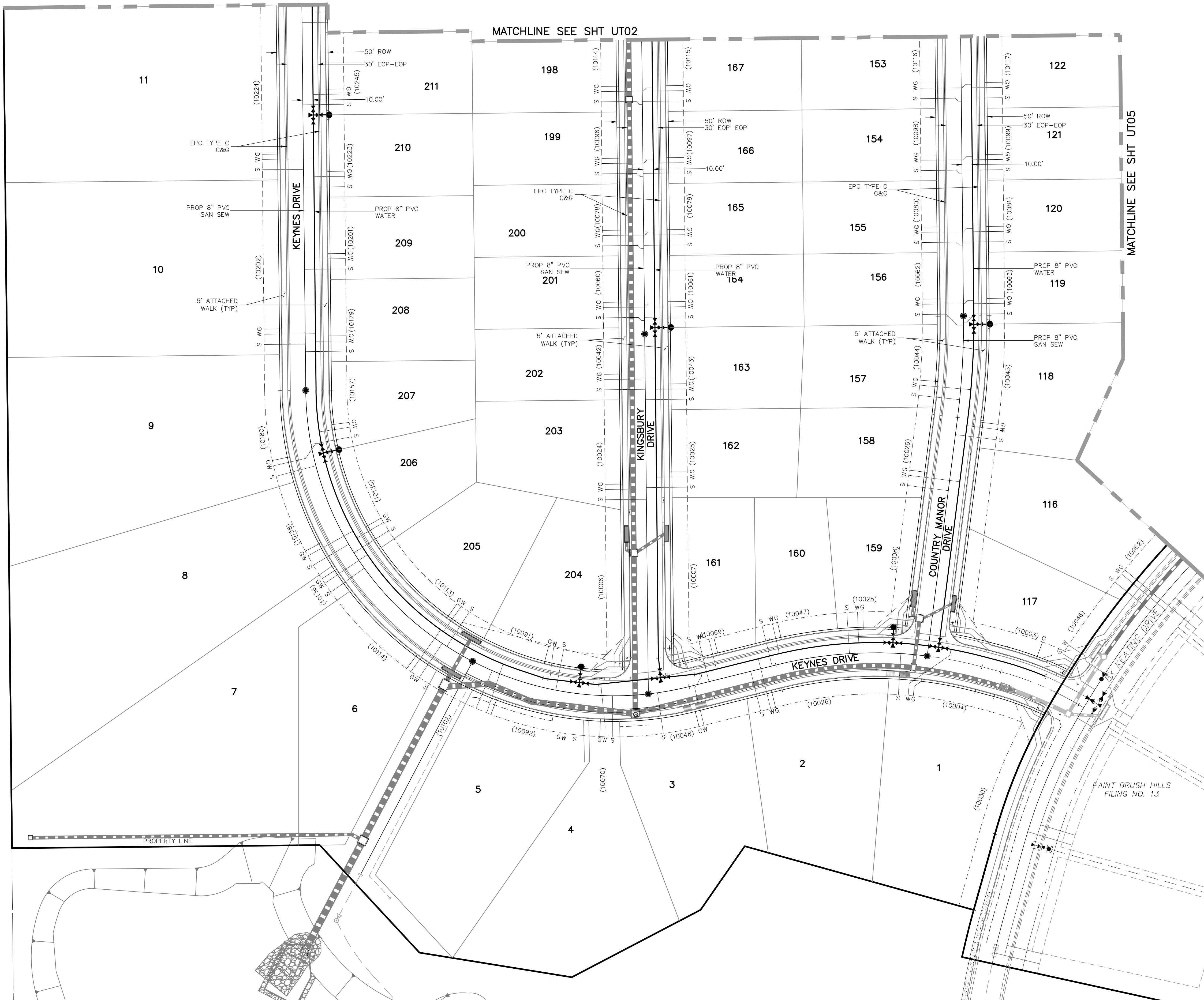
REGISTERED PROFESSIONAL ENGINEER
MIRCIU A. SANCHEZ
NO. 37160
STATE OF COLORADO
EXPIRES 3-22-21

NO.	DATE	BY	DESCRIPTION

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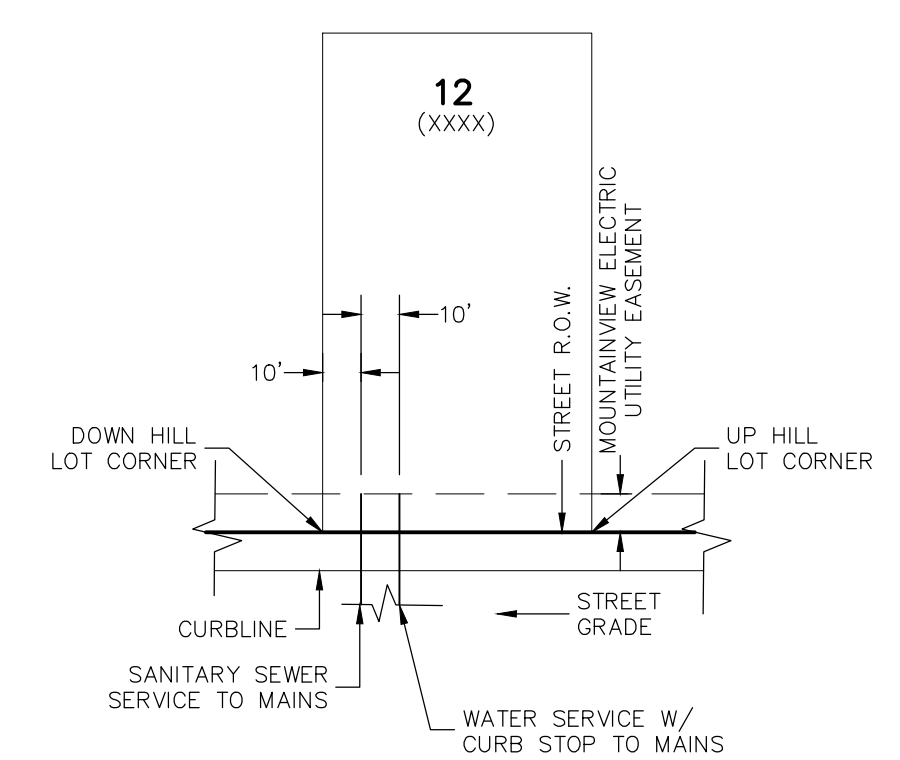
CAUTION

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GENERAL NOTES:

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PAINT BRUSH HILLS FILING NO. 14
UTILITY SERVICE PLANS
DATE: 03/19/2021
PROJECT NO. 10-014
SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A
DESIGNED BY: GW
DRAWN BY: SM
CHECKED BY: GW
SHEET 21 OF 26
UT03

212 N. WAHATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

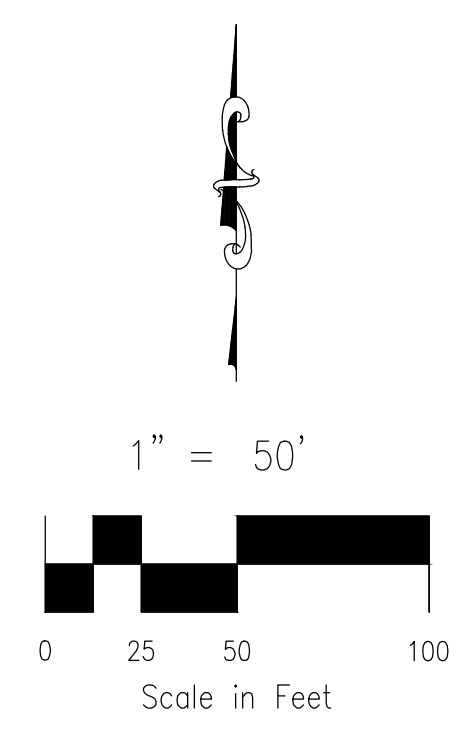
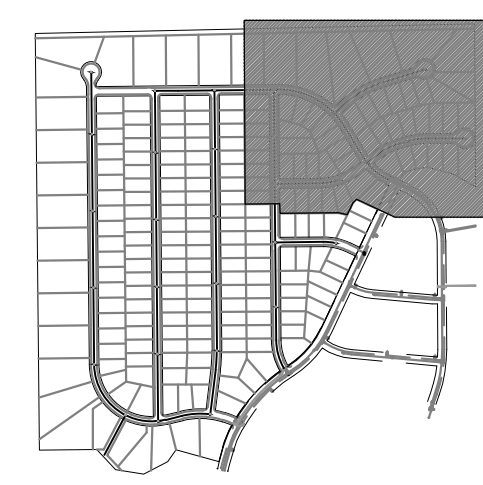
M&S CIVIL CONSULTANTS, INC.
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
REGISTERED PROFESSIONAL ENGINEER
3-22-21

NO.	DATE	BY	DESCRIPTION

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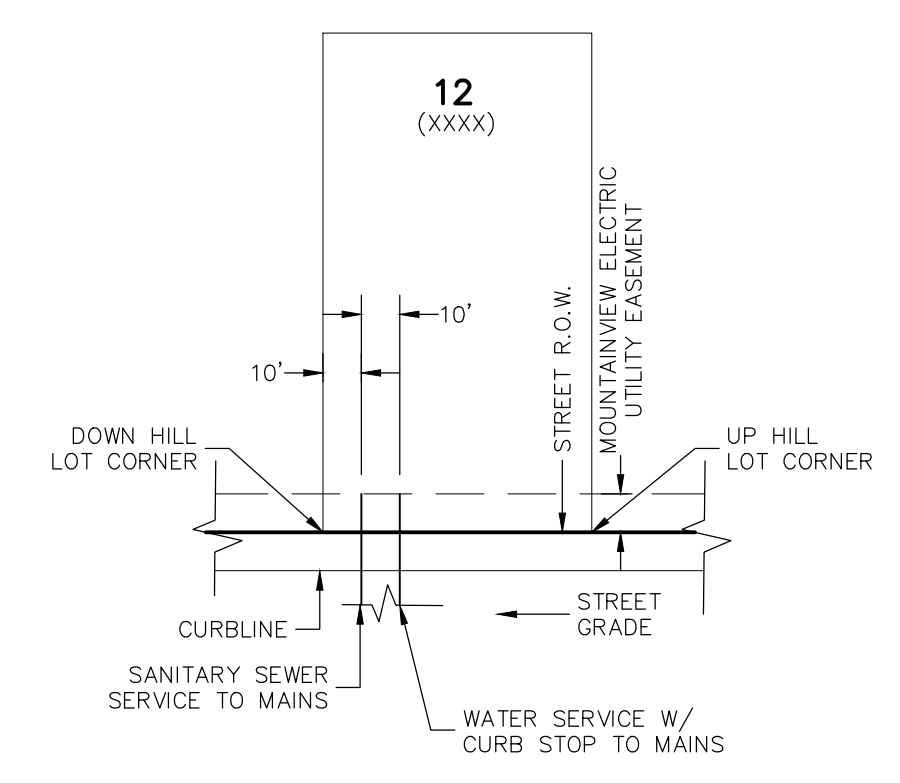
CAUTION

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TYPICAL UTILITY SERVICE LOCATIONS DETAIL
N.T.S.

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PAINT BRUSH HILLS FILING NO. 14

UTILITY SERVICE PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: GW SCALE: 1"=50'

DRAWN BY: SM HORIZONTAL: 1"=50'

CHECKED BY: GW VERTICAL: N/A SHEET 22 OF 26

UT04

212 N. WAHATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

MIRCEL A. SANCHEZ, COLORADO P.E. NO. 37160

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

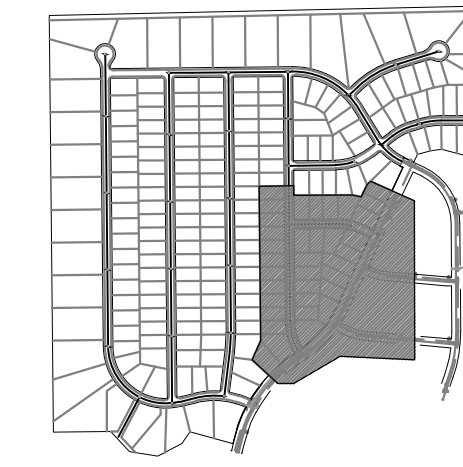
REGISTERED PROFESSIONAL ENGINEER
NO. 37160
3-22-21

NO.	DATE	BY	DESCRIPTION

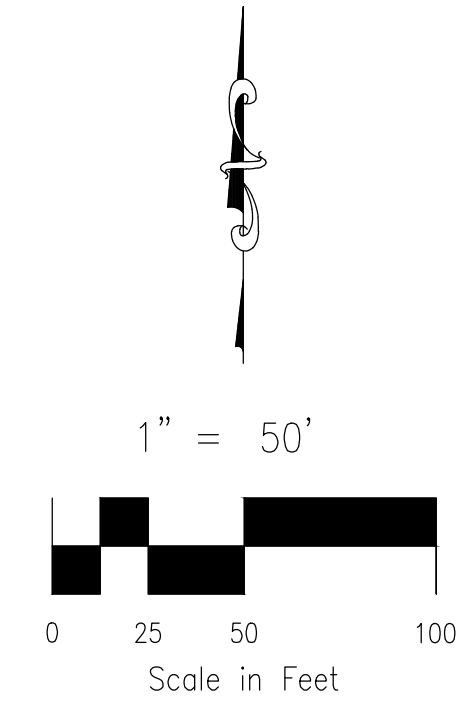
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48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987

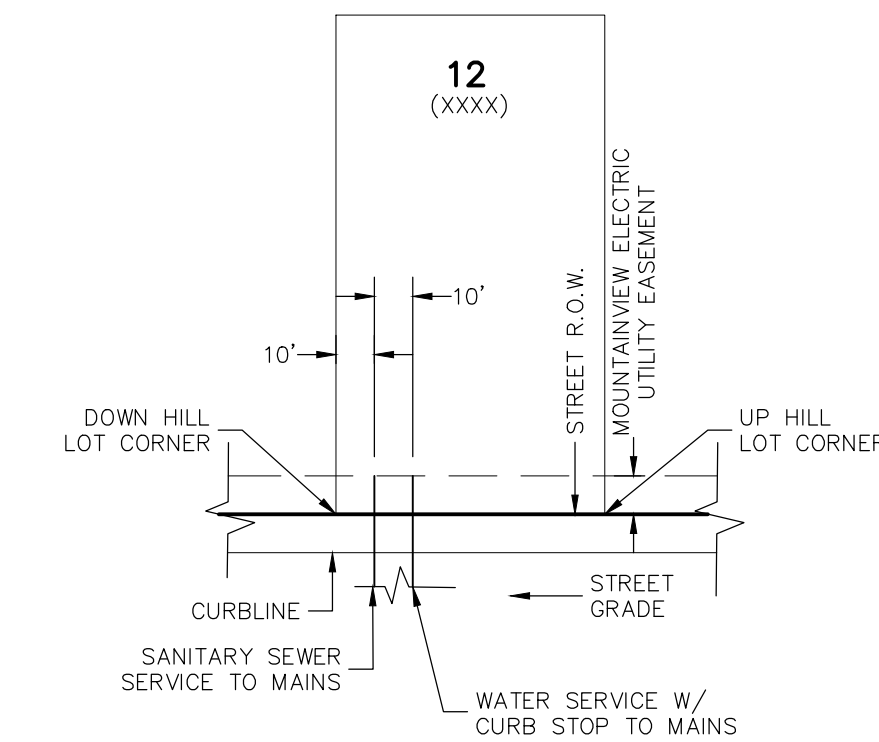


KEY MAP
SCALE: NTS



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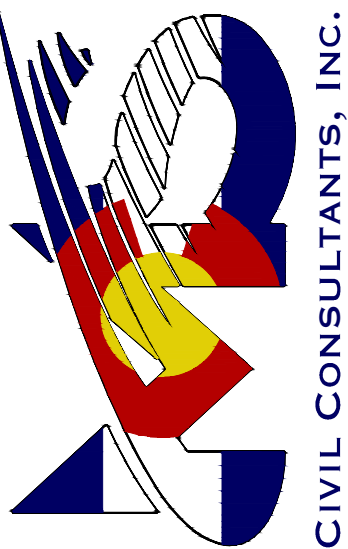
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212 N. WABATCH AVE. STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485



MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.



NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

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CAUTION

PAINT BRUSH HILLS FILING NO. 14

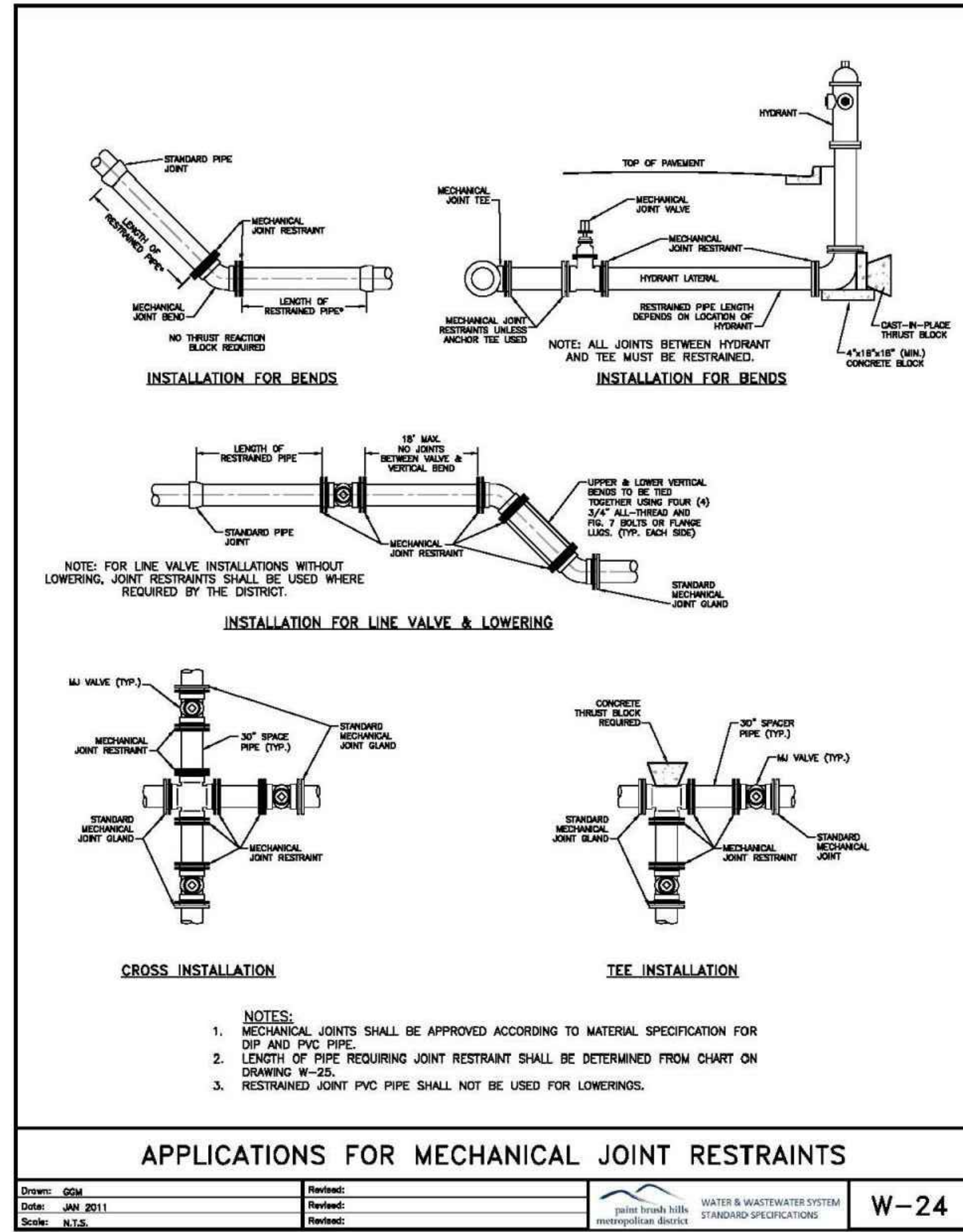
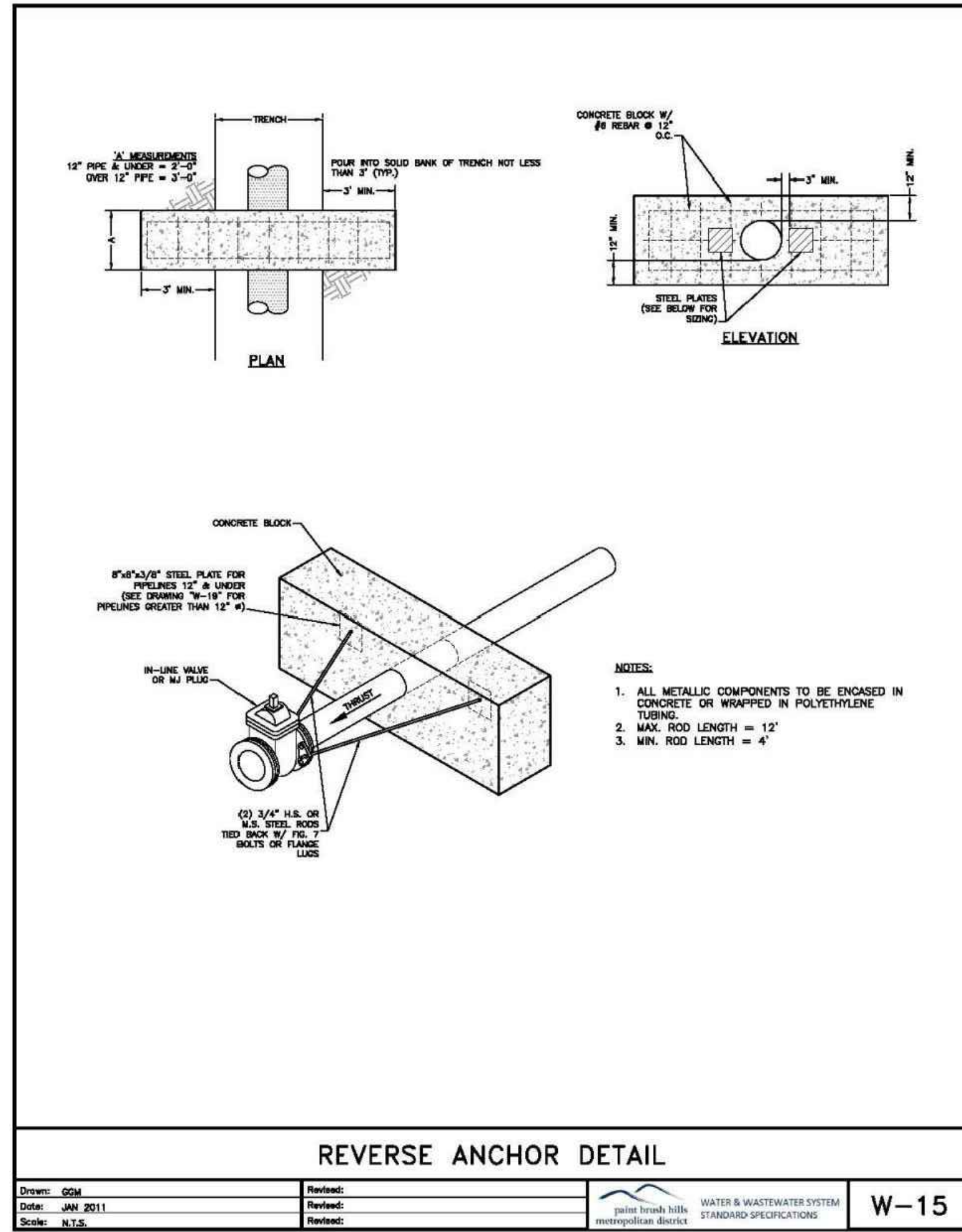
UTILITY SERVICE PLANS

PROJECT NO. 10-014 DATE: 03/19/2021

DESIGNED BY: GW SCALE: HORIZONTAL: 1"=50'

DRAWN BY: SM VERTICAL: N/A SHEET 23 OF 26

CHECKED BY: GW UT05



RESTRAINED M.J. PIPE LENGTH (FT)

TYPE OF FITTING	6-INCH DUCTILE IRON AND PVC			16-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI)			STATIC PRESSURE (PSI)		
90° BEND, TEE, VALVE OR PLUG	<100	100-150	150-200	<100	100-150	150-200
45° BEND	12	18	24	29	43	58
22-1/2° BEND	5	8	10	12	18	24
11-1/4° BEND	2	4	5	6	9	12

TYPE OF FITTING	8-INCH DUCTILE IRON AND PVC			18-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI)			STATIC PRESSURE (PSI)		
90° BEND, TEE, VALVE OR PLUG	<100	100-150	150-200	<100	100-150	150-200
45° BEND	16	24	32	32	48	64
22-1/2° BEND	7	10	13	14	20	27
11-1/4° BEND	3	5	6	7	10	13

TYPE OF FITTING	12-INCH DUCTILE IRON AND PVC			20-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI)			STATIC PRESSURE (PSI)		
90° BEND, TEE, VALVE OR PLUG	<100	100-150	150-200	<100	100-150	150-200
45° BEND	23	34	45	35	52	70
22-1/2° BEND	9	14	19	15	22	29
11-1/4° BEND	4	7	9	7	10	14

TYPE OF FITTING	24-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI)		
90° BEND, TEE, VALVE OR PLUG	<100	100-150	150-200
45° BEND	41	61	81
22-1/2° BEND	17	25	34
11-1/4° BEND	8	12	16

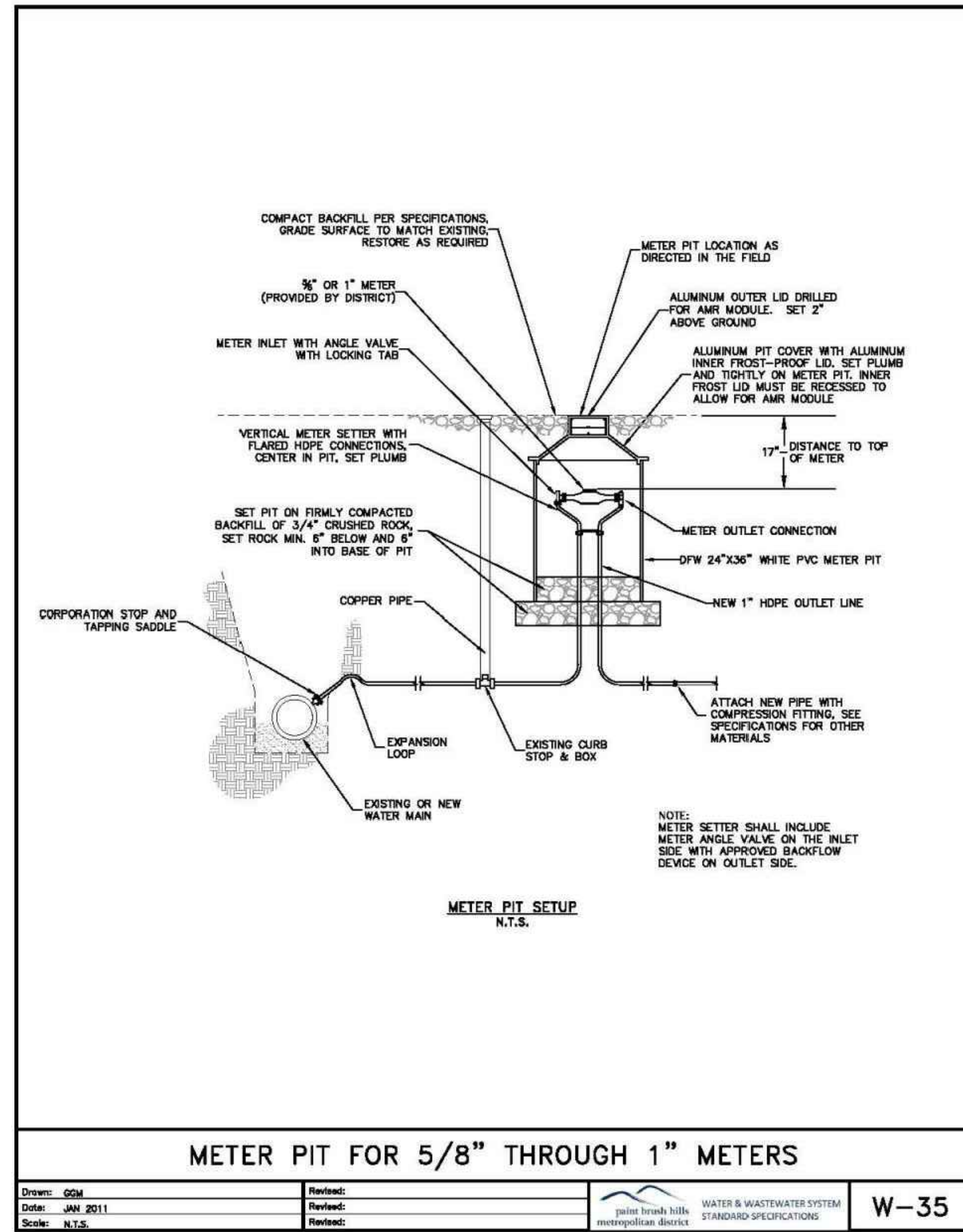
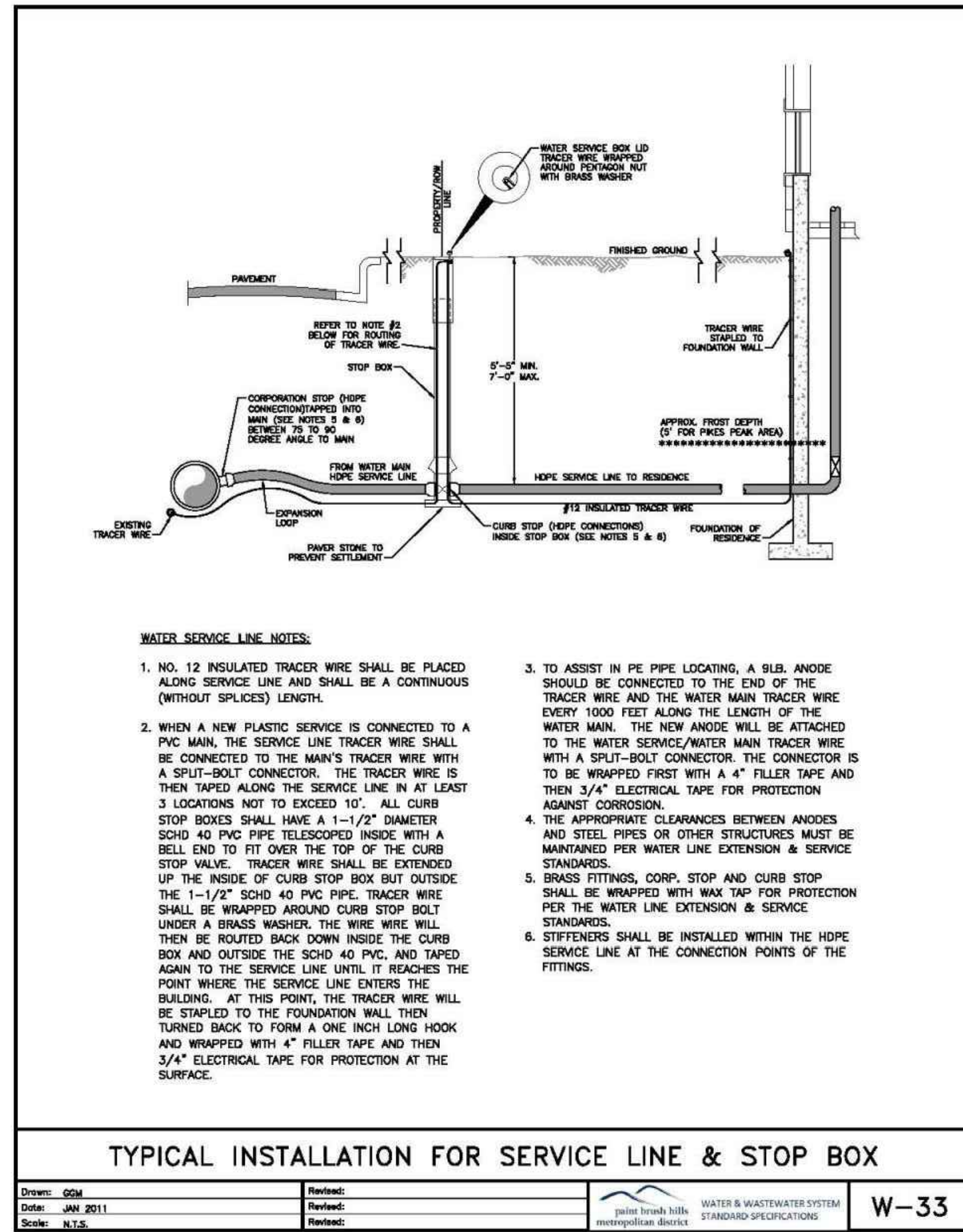
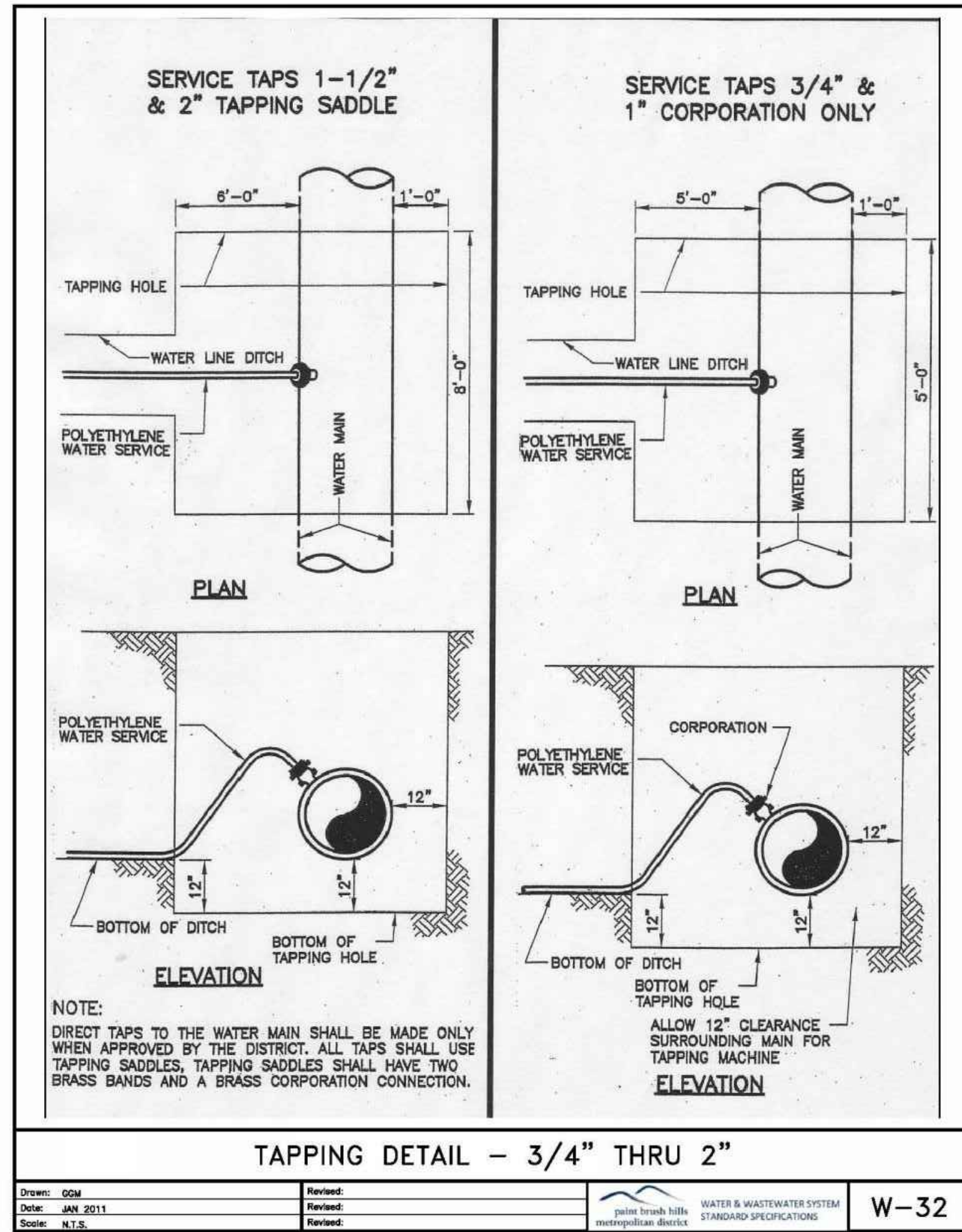
RESTRAINED MJ PIPE LENGTH DATA

Drawn: GJM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Scale: _____

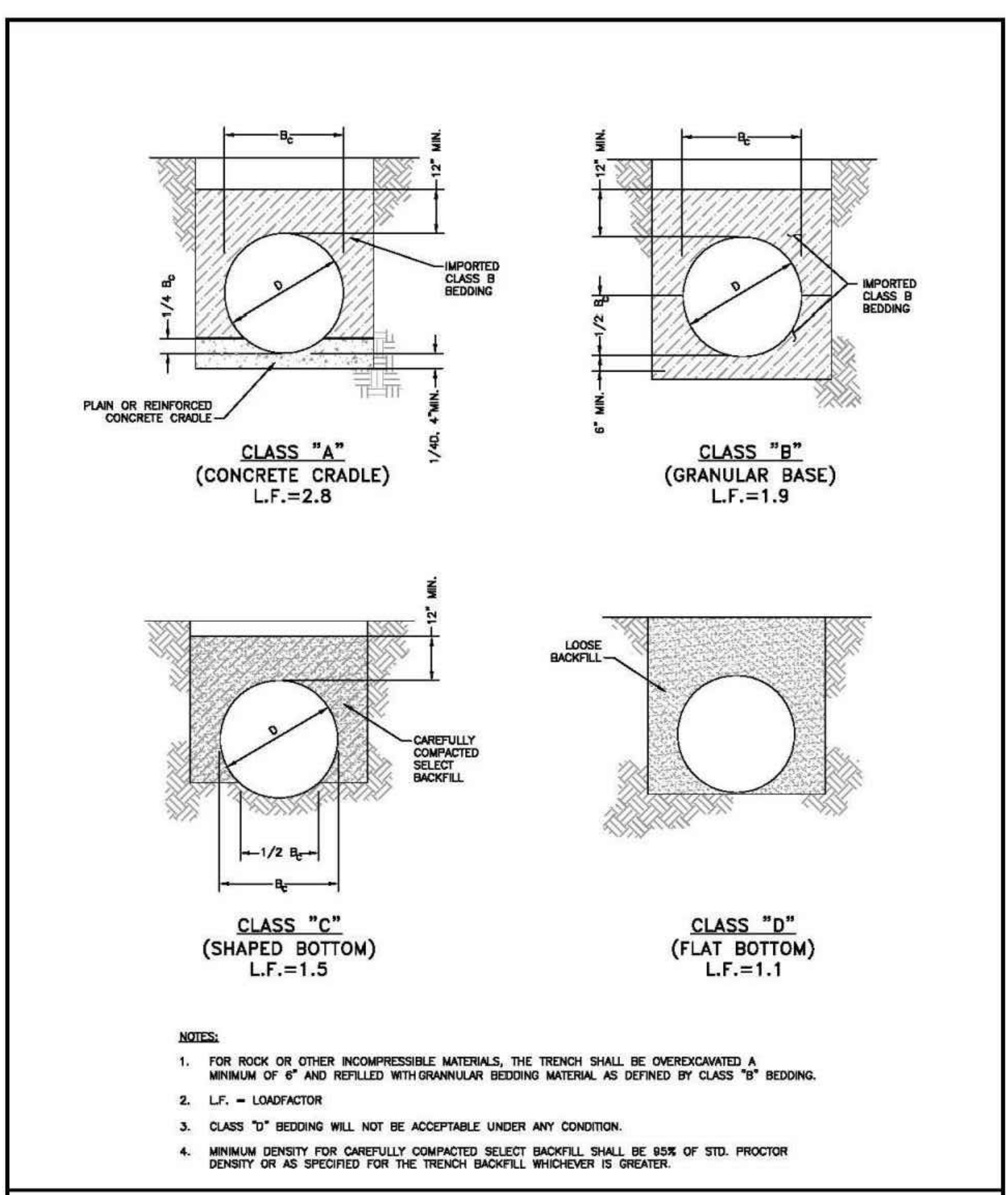
WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
METROPOLITAN DISTRICT

W-25

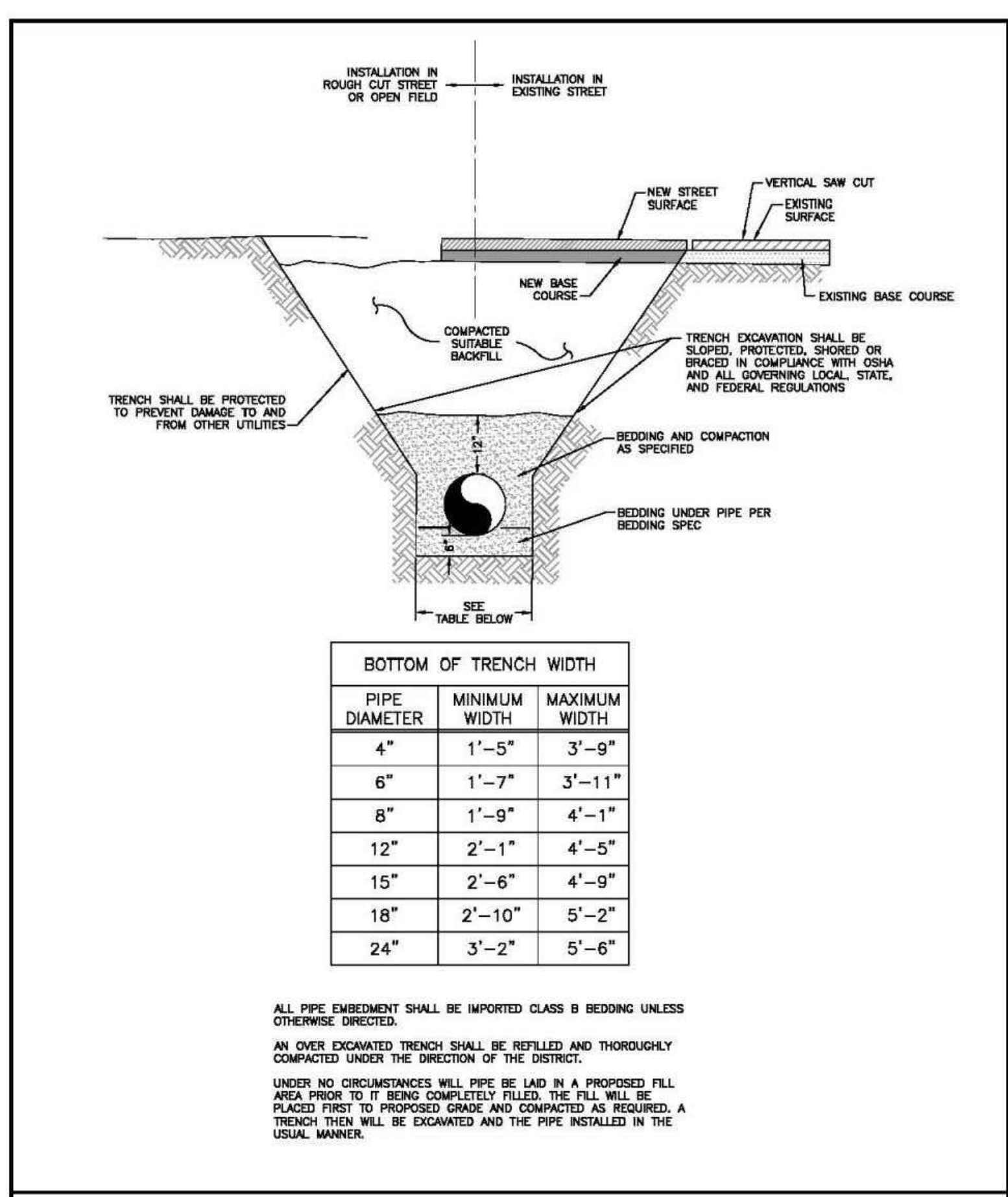


FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

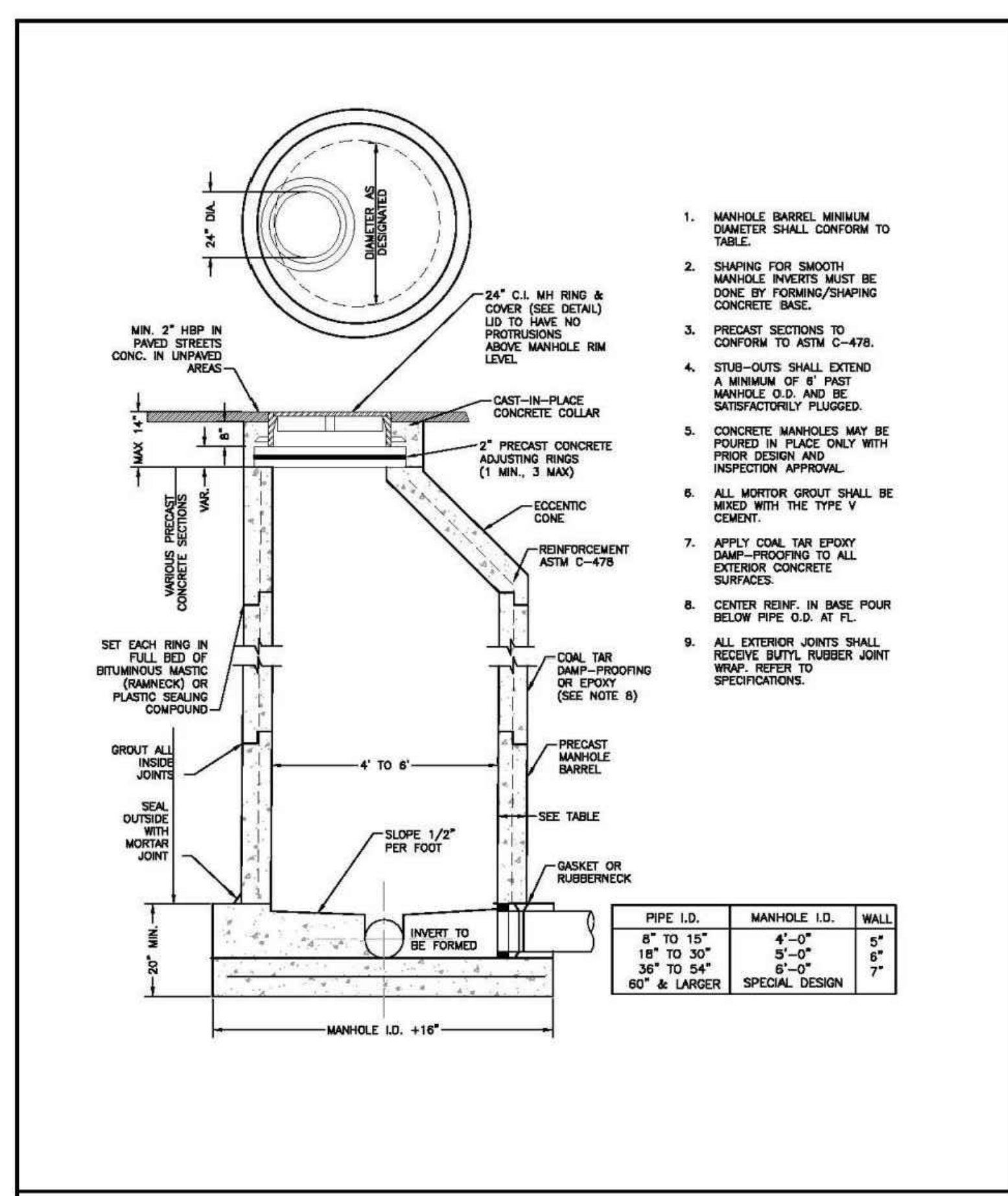
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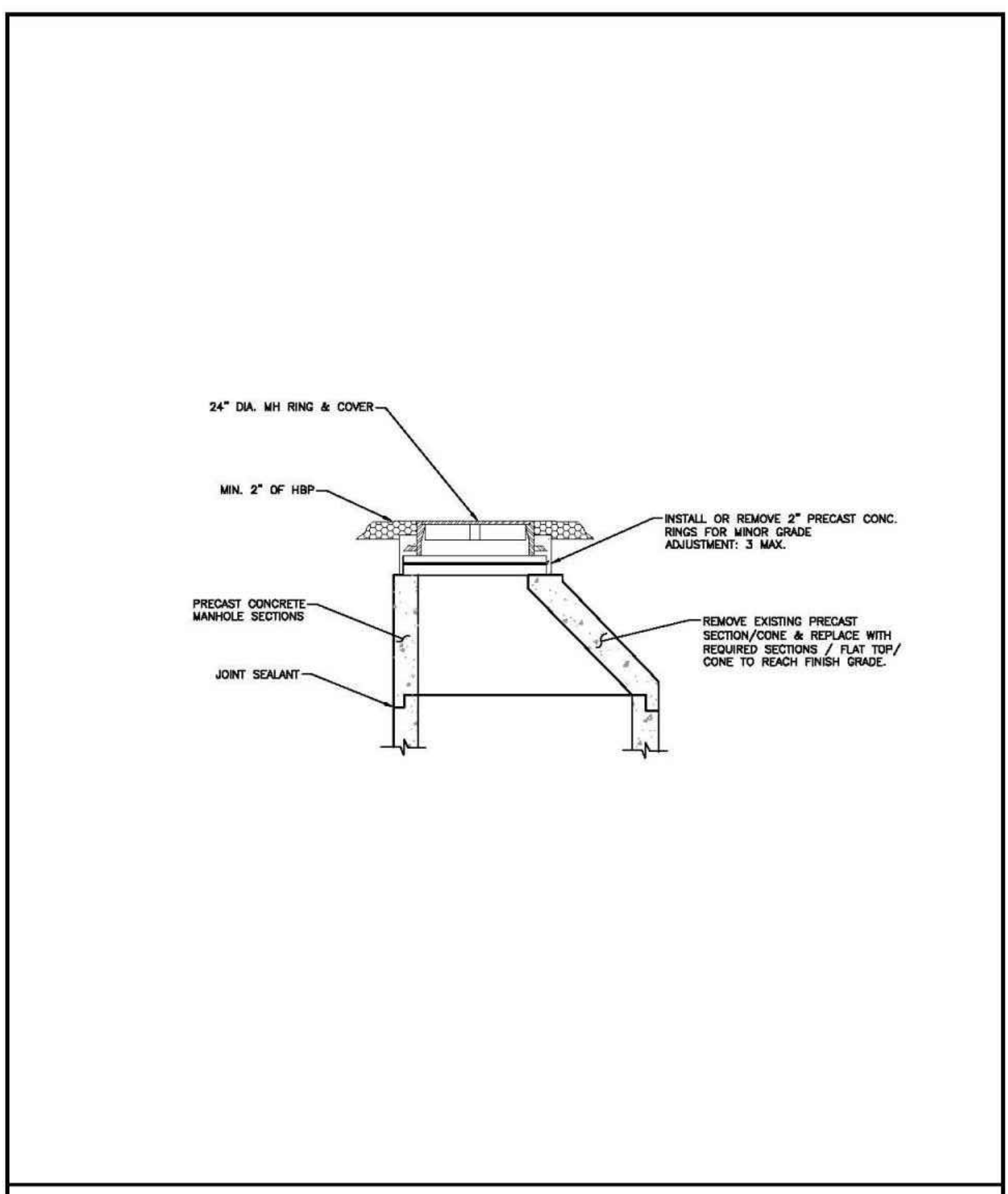
PIPE BEDDING
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-1



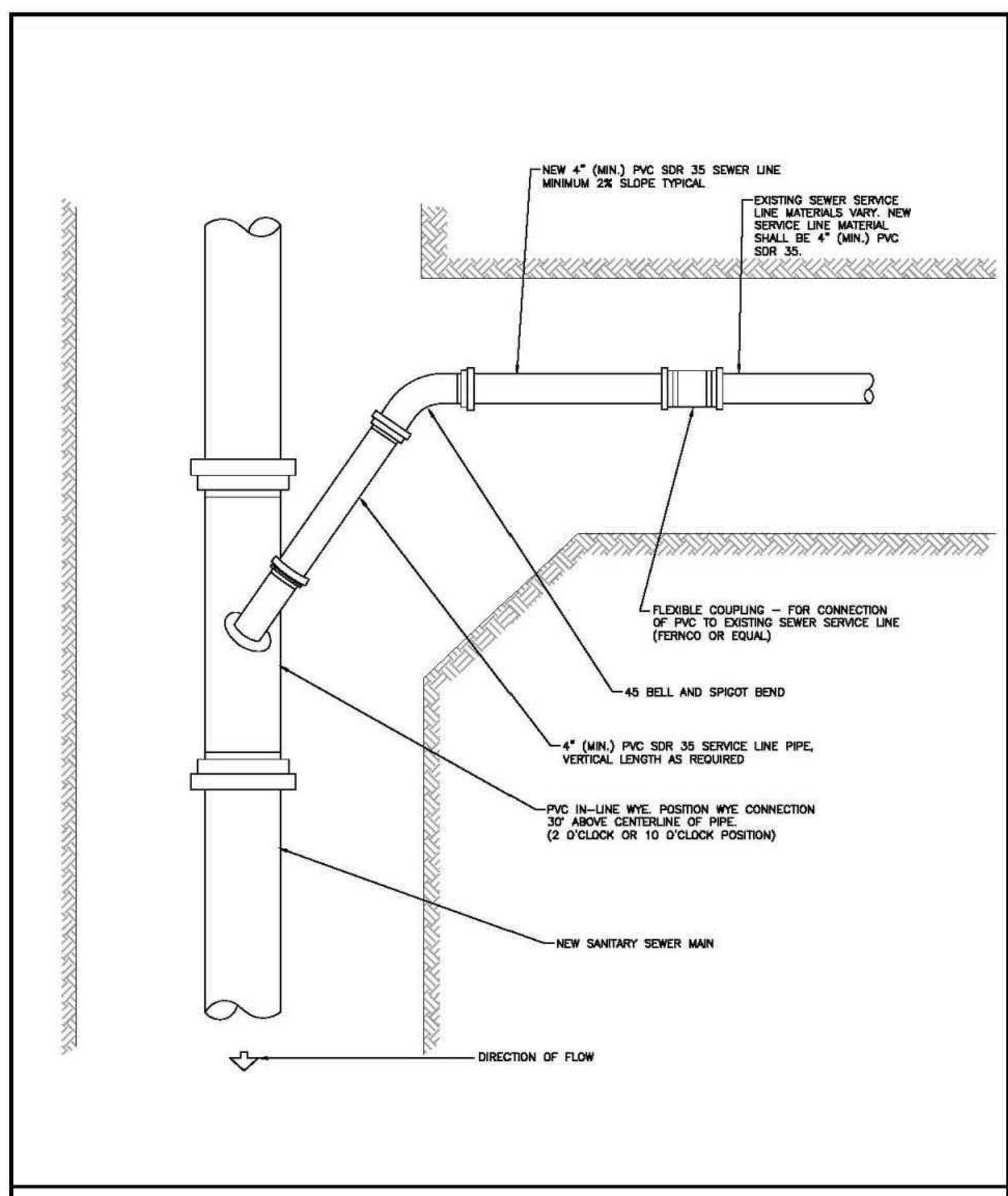
TYPICAL TRENCH CROSS SECTION
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-2



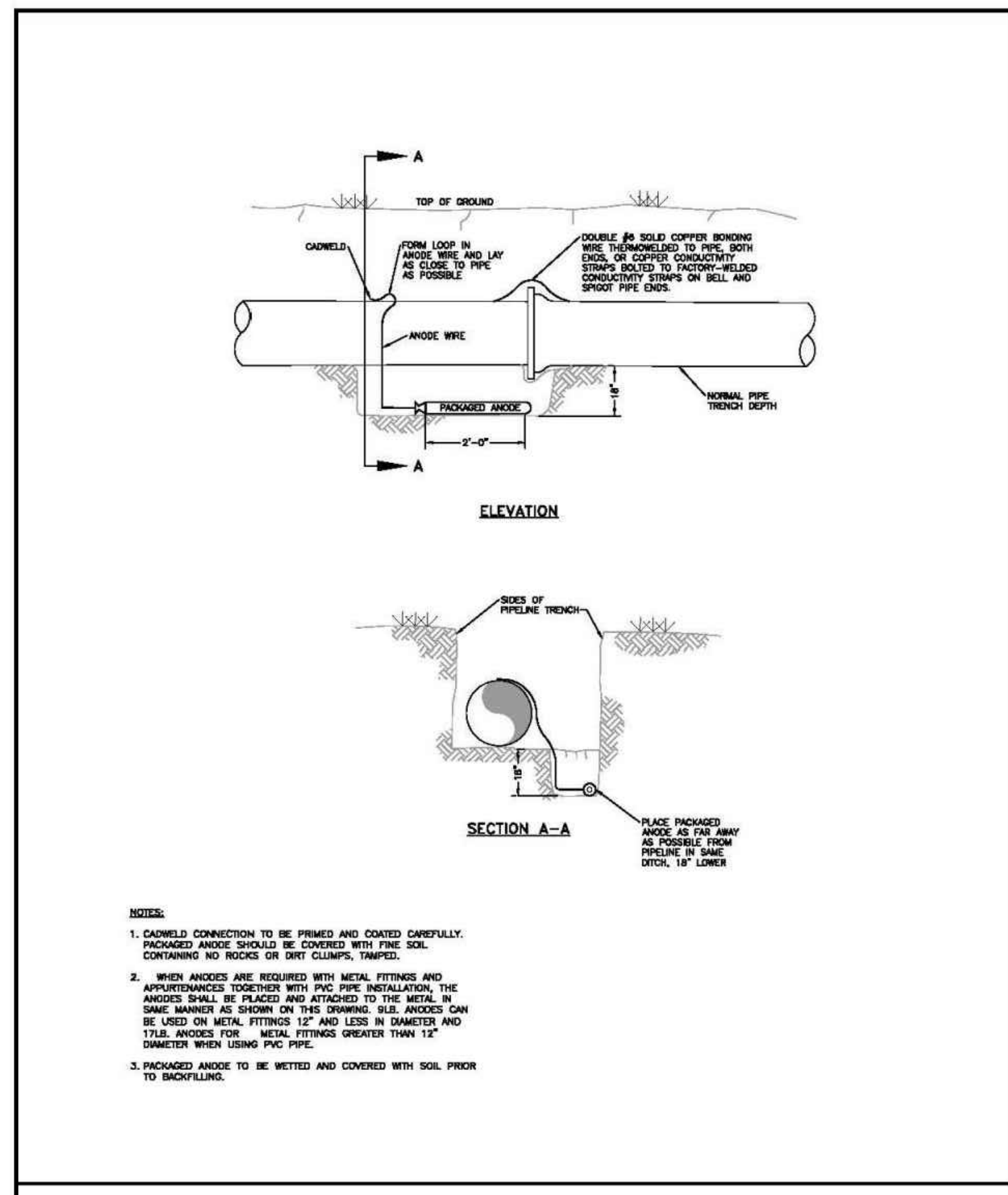
PRECAST MANHOLE
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-3



MANHOLE RING AND COVER ADJUSTMENT
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-5



SANITARY SEWER SERVICE CONNECTION
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-7



BONDING JOINT & ANODE INSTALLATION
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-13

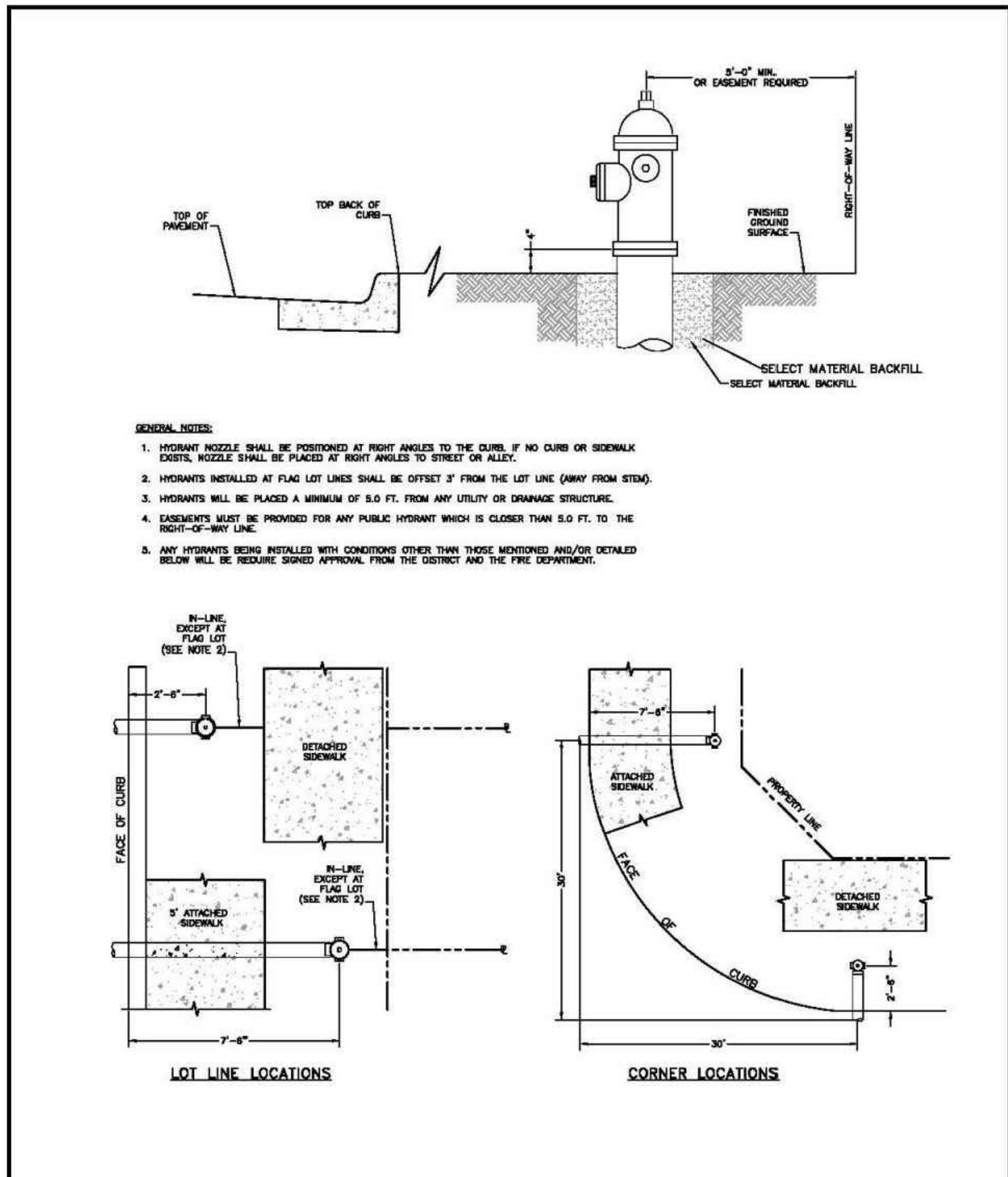
MAXIMUM DEFLECTION PER SLIP JOINT OF D.I.P.

PIPE DIAMETER I.D. (IN)	O.D. (IN)	O.D. (FT)	MFRS. DEF.	DESIGN DEFLECTION (80% MAX)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS	
				MAX. DEFL.	DIST.		
4"	4.80"	1.400'	5'00"/00"	4'00"/00"	16"	201'	191'
6"	6.80"	1.75'	5'00"/00"	4'00"/00"	16"	286'	258'
8"	8.80"	2.10'	5'00"/00"	4'00"/00"	16"	286'	258'
10"	11.10"	2.25'	5'00"/00"	4'00"/00"	16"	286'	258'
12"	13.20"	2.40'	5'00"/00"	4'00"/00"	16"	286'	258'
14"	15.30"	2.50'	3'00"/00"	2'24"/00"	10"	477'	430'
18"	17.40"	2.60'	3'00"/00"	2'24"/00"	10"	477'	430'
18"	19.50"	2.625'	3'00"/00"	2'24"/00"	10"	477'	430'
20"	21.60"	2.650'	3'00"/00"	2'24"/00"	10"	477'	430'
24"	25.80"	2.750'	3'00"/00"	2'24"/00"	10"	477'	430'
30"	32.00"	2.888'	2'30"/00"	2'00"/00"	8"	573'	518'
36"	38.30"	3.192'	2'00"/00"	1'38"/00"	6"	716'	645'
42"	44.50"	3.708'	2'00"/00"	1'38"/00"	6"	716'	645'

(1) 20' L = NORMAL 20-FOOT JOINT LAYING LENGTH
(2) = NORMAL 18-FOOT JOINT LAYING LENGTH

MAXIMUM PIPELINE DEFLECTION DATA
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.
Reviewed:
Water & Wastewater System Standard Specifications
WW-14





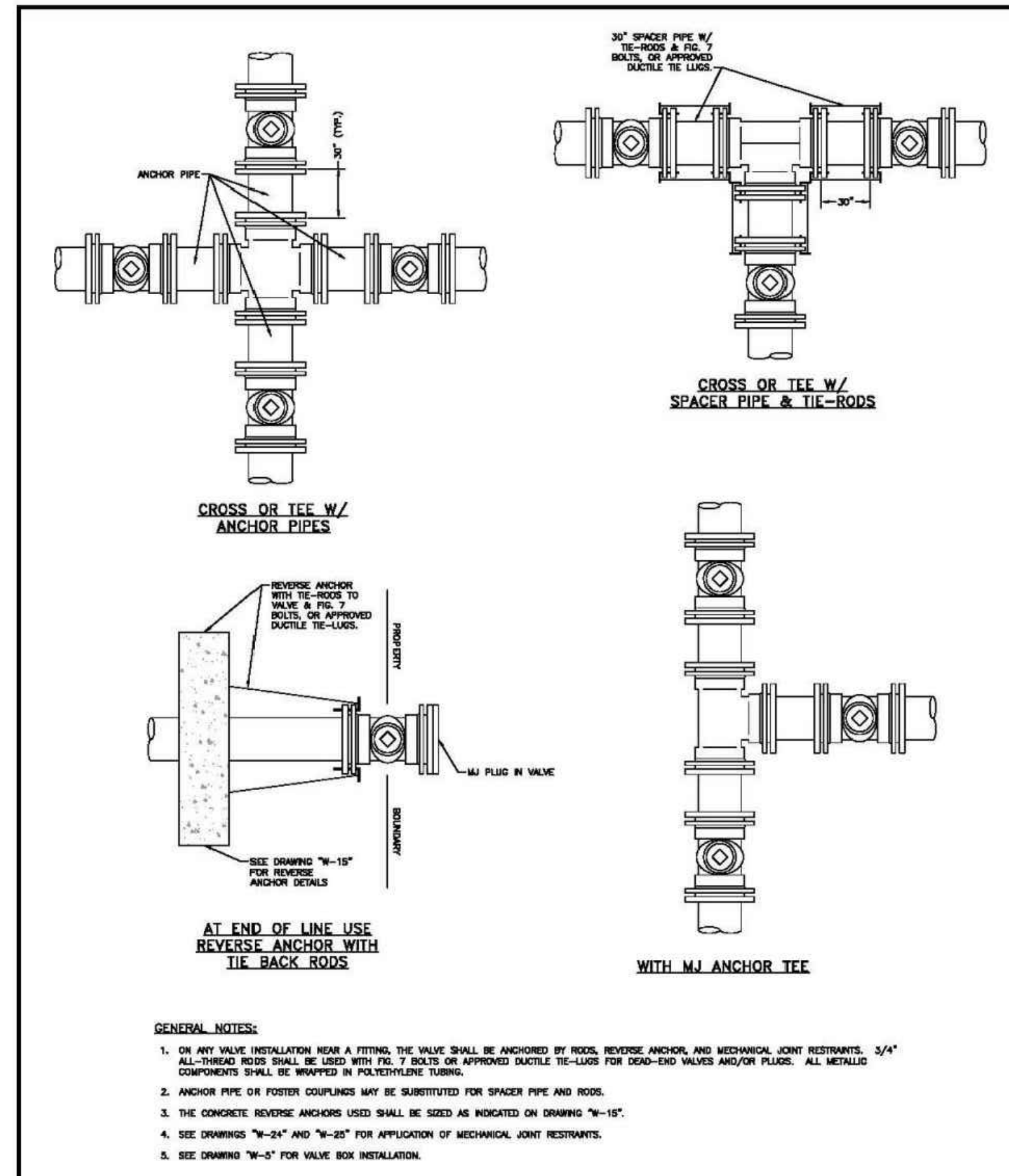
FIRE HYDRANT LOCATIONS

Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-1



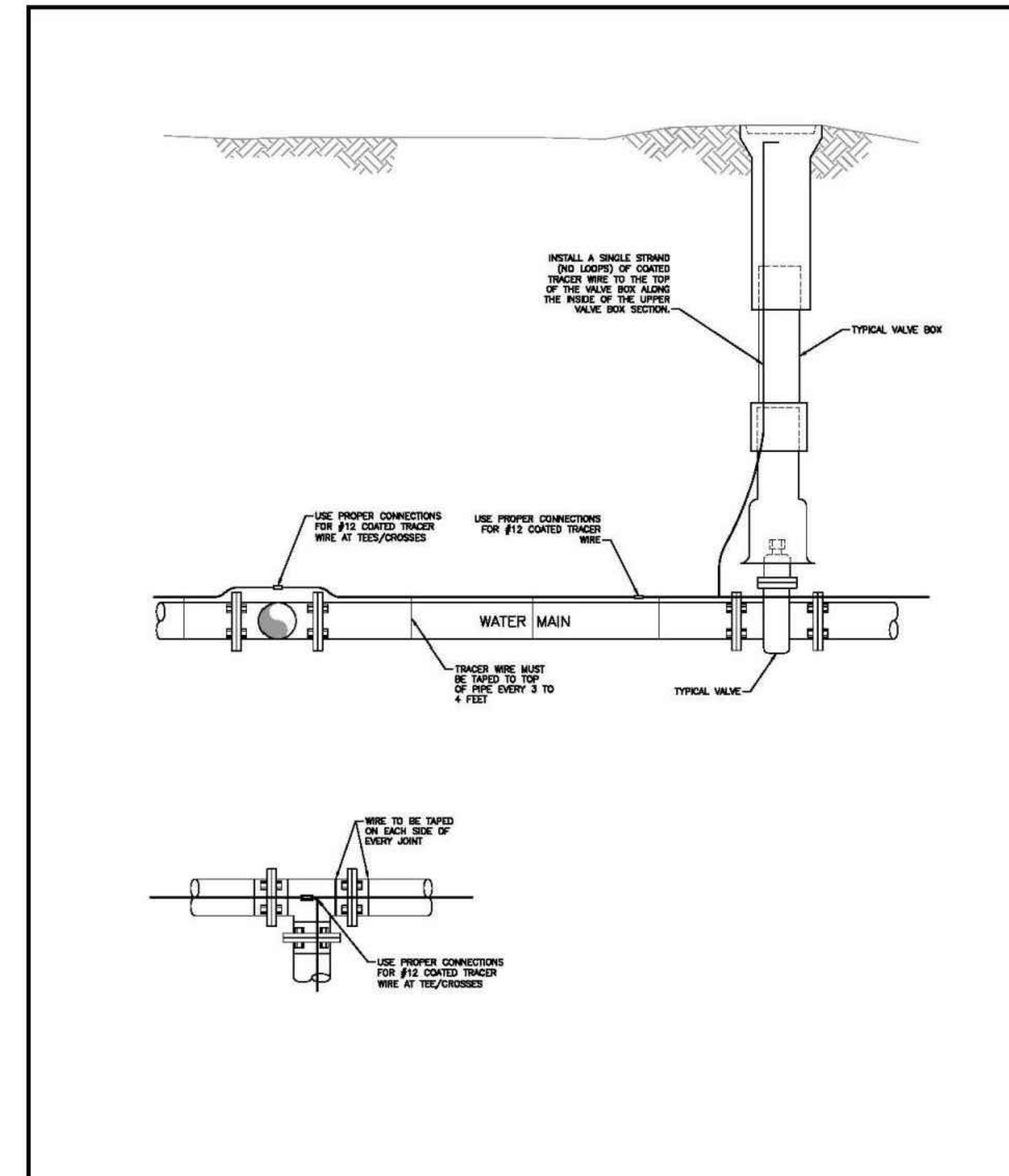
VALVE INSTALLATION & LOCATION

Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-4



TRACER WIRE INSTALLATION DETAILS

Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

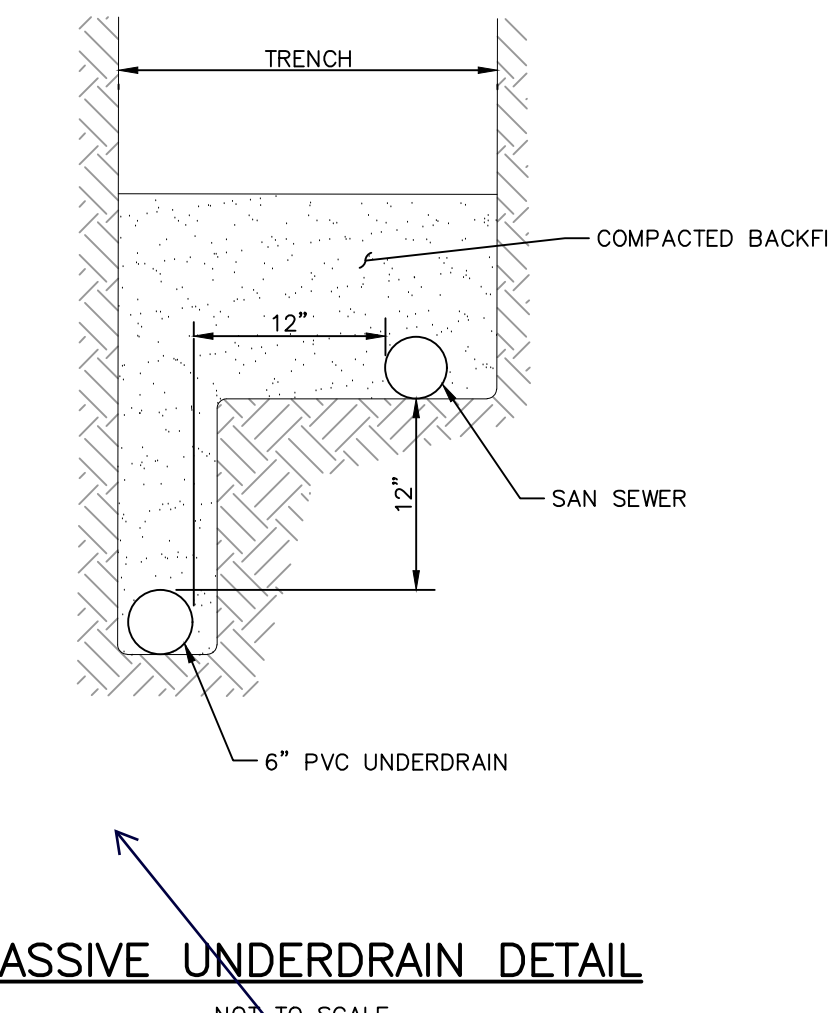
Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-9

UNDERDRAIN NOTES:

- UNDERDRAIN TO BE CONSTRUCTED WHERE INDICATED BY A DASHED LINE (---). SEE SANITARY SEWER PLAN AND PROFILES.
- REFER TO PAINT BRUSH HILLS METROPOLITAN DISTRICT RULES AND REGULATIONS, ARTICLE 5.18.

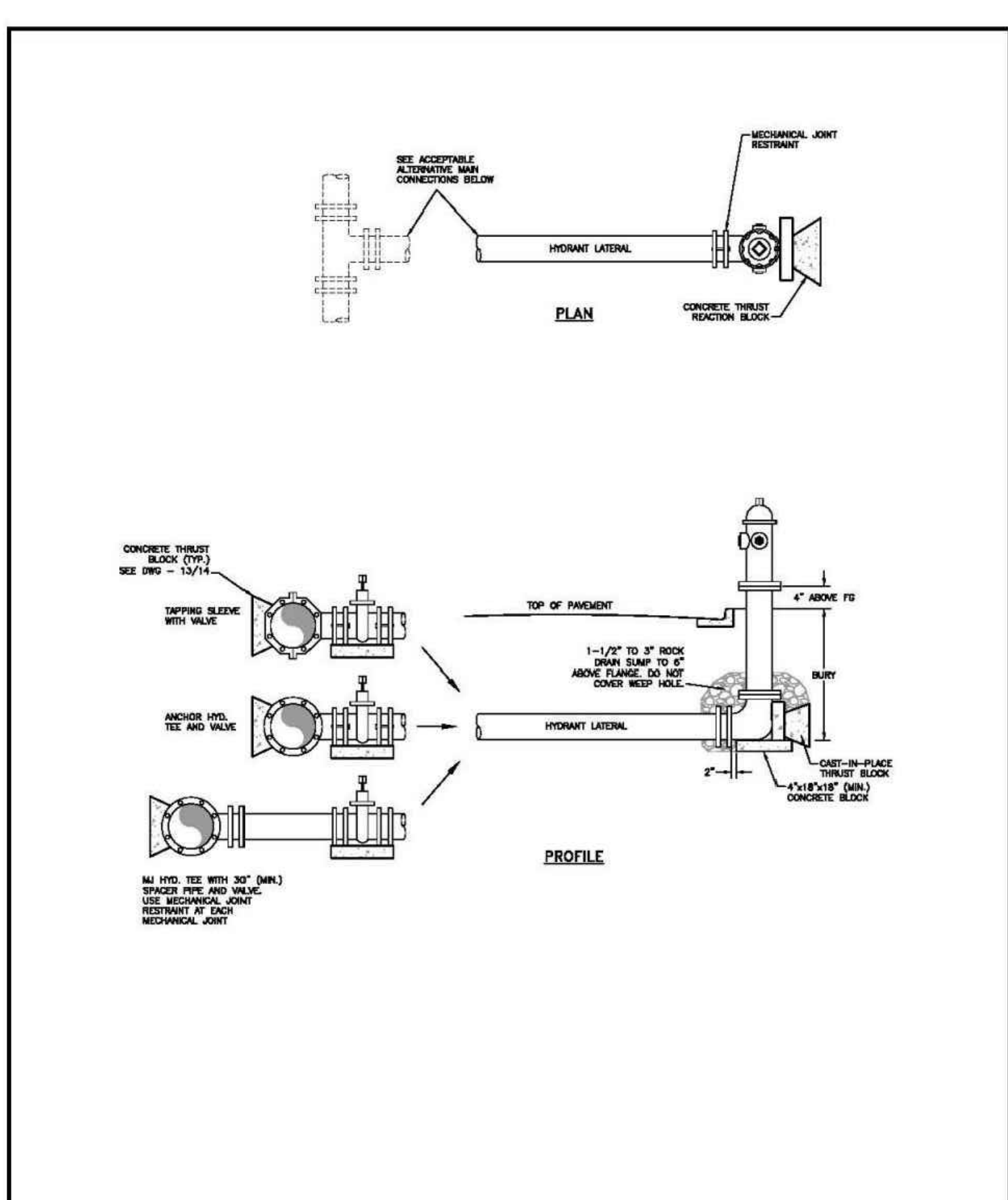


PASSIVE UNDERDRAIN DETAIL

NOT TO SCALE

Provide underdrain details.

Unresolved. Provide construction detail in the vicinity of the sanitary manhole. Does the underdrain go through or around the manhole? Example detail from a different subdivision project.



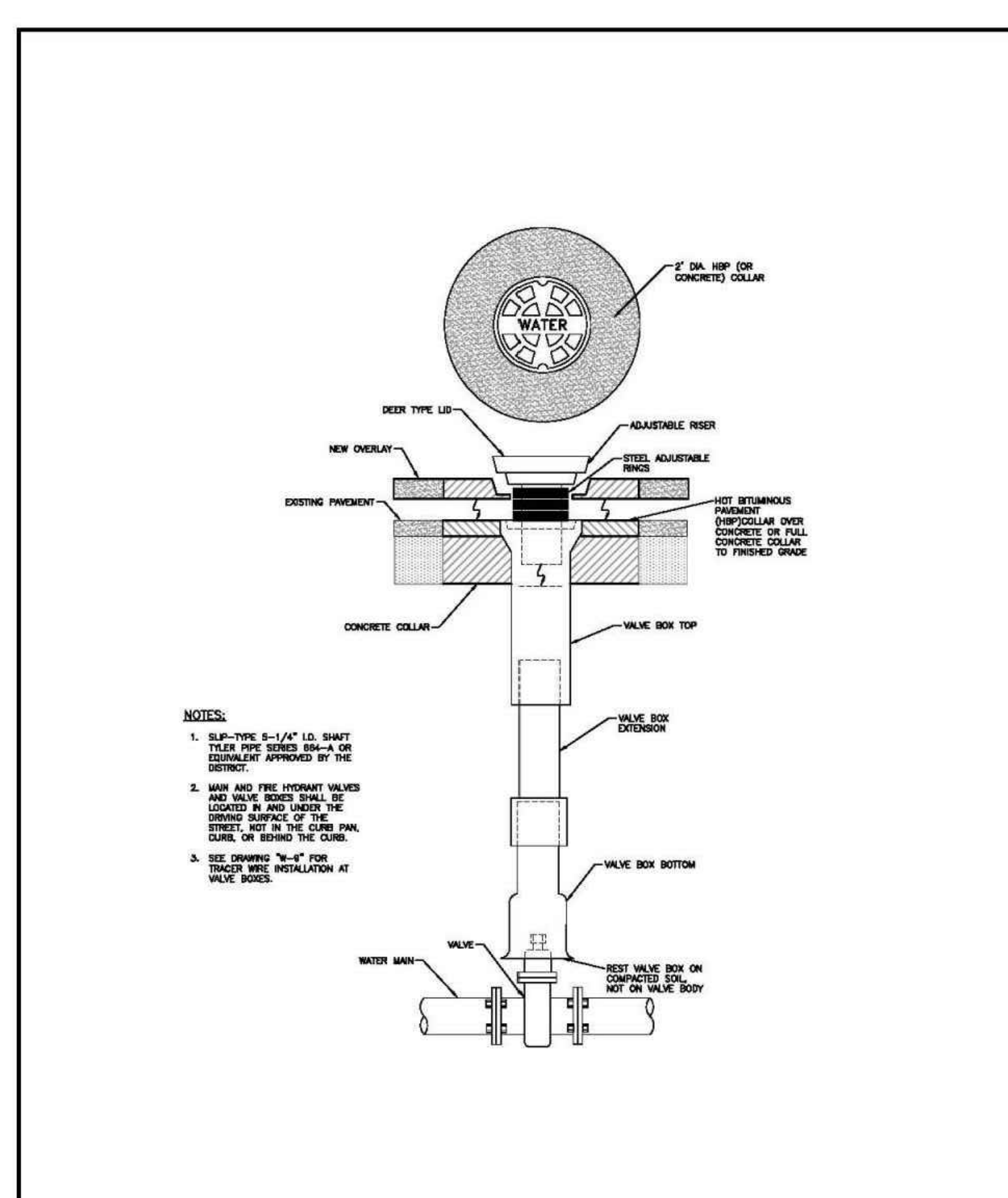
FIRE HYDRANT INSTALLATION

Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-2



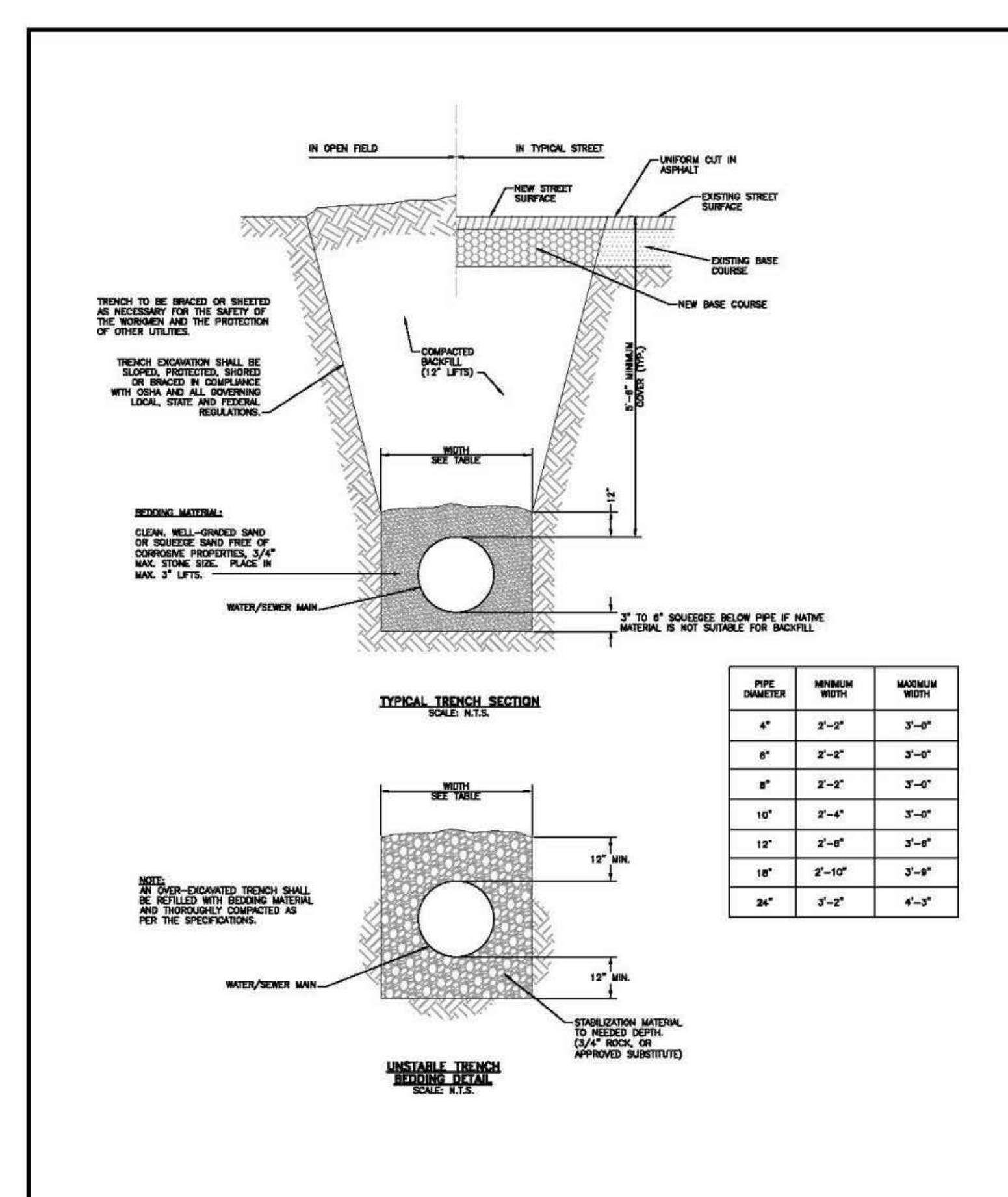
VALVE BOX INSTALLATION

Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-5



TYPICAL TRENCH CROSS-SECTION

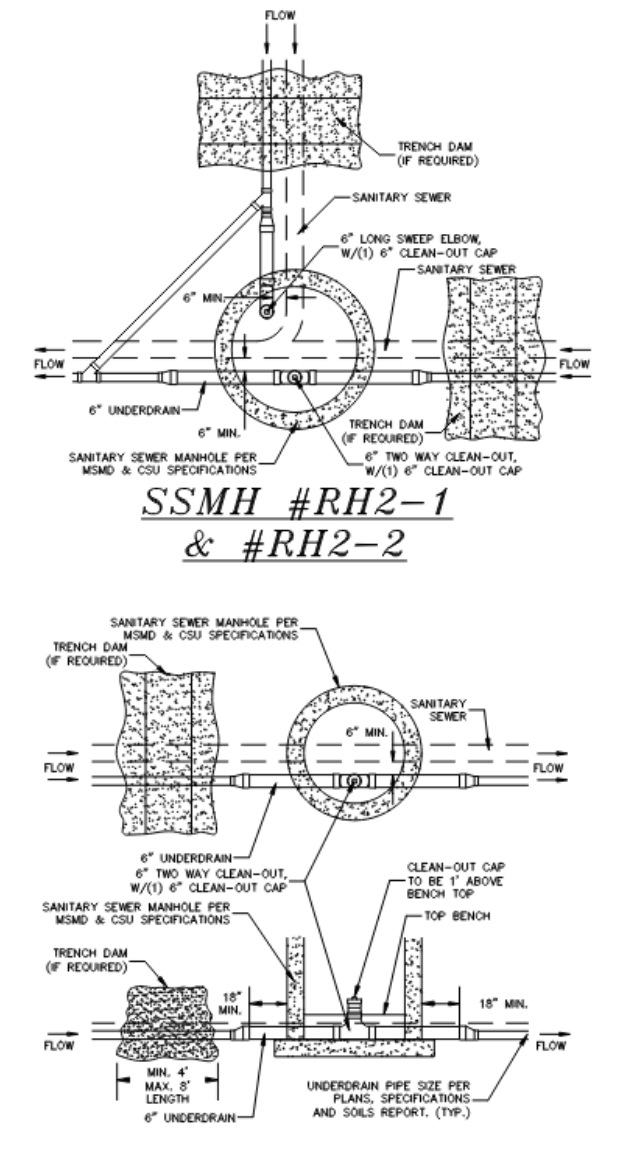
Drawn: GDM
Date: JAN 2011
Scale: N.T.S.

Revised: _____
Date: _____
Revised: _____

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS
metropolitan district

W-12

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	2'-0"	3'-0"
6"	2'-0"	3'-0"
8"	2'-0"	3'-0"
10"	2'-4"	3'-0"
12"	2'-0"	3'-0"
16"	2'-10"	3'-8"
24"	3'-0"	4'-2"



SSMH #RH2-1 & #RH2-2

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
88 HRS BEFORE YOU DIG
CALL 1-800-922-1987

PAINT BRUSH HILLS FILING NO. 14

DETAIL SHEET

PROJECT NO. 10-014
DATE: 03/19/2021
DESIGNED BY: JWP
DRAWN BY: SM
CHECKED BY: GW

SCALE: HORIZONTAL: N/A
VERTICAL: N/A

212 N. WABATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 3-22-21

REVISED: _____ DATE: _____
BY: _____ DESCRIPTION: _____

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

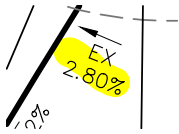
File: C:\Users\epicore\Documents\100144-PBH 14\Proj\Corr\DWG\UTILITY SERVICE\UT06-8.dwg Plotstamp: 3/18/2021 2:46 PM

Construction Drawings_v3-eng redlines.pdf Markup Summary

dsdlaforce (19)



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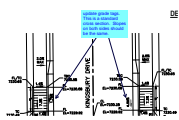
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label the slope along the PAR. The cross slope shall not exceed 2% at yield or stop controlled crossing and 5% max for intersections without yield or stop control.

See ECM 6.3.2.C and Figure 6-9 for criteria.

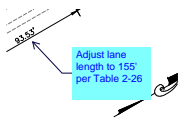
Comment applies to all intersection details and will be reviewed on the resubmittal once the request information is shown.

Unresolved. Remove/replace existing asphalt so this is 2% max cross slope



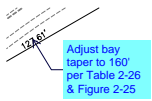
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update grade tags. This is a standard cross section. Slopes on both sides should be the same.



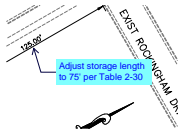
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Adjust lane length to 155' per Table 2-26



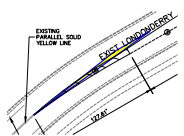
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Adjust bay taper to 160' per Table 2-26 & Figure 2-25



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Adjust storage length to 75' per Table 2-30



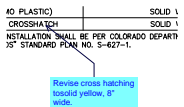
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Revise redirect taper to solid yellow.



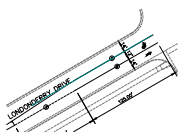
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Revise cross hatching to solid yellow, 8" wide.

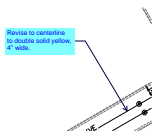


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Revise cross hatching to solid yellow, 8" wide.

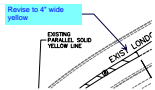


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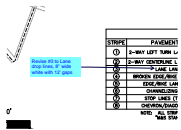
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Revise to centerline to double solid yellow, 4" wide.



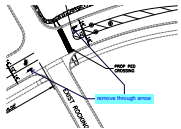
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Revise to 4" wide yellow



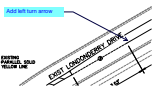
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Revise #3 to Lane drop lines, 8" wide white with 12' gaps



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remove through arrow



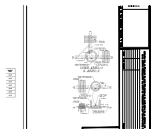
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Add left turn arrow

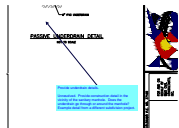


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Identify as 12" wide x 8' long, white



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Provide underdrain details.

Unresolved. Provide construction detail in the vicinity of the sanitary manhole. Does the underdrain go through or around the manhole? Example detail from a different subdivision project.