

GENERAL NOTES

- 1. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND 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. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD).
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC EOM APPENDIX K-1.2C.
8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
10. ASPHALT THICKNESS AND BASE COURSE THICKNESS (NONCOMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRIF 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRIF FW 700 OR EQUAL IS SPECIFIED.
13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
14. ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
15. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
16. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR RODDING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
17. MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25" OR 22.5" BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
19. SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35; PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN.

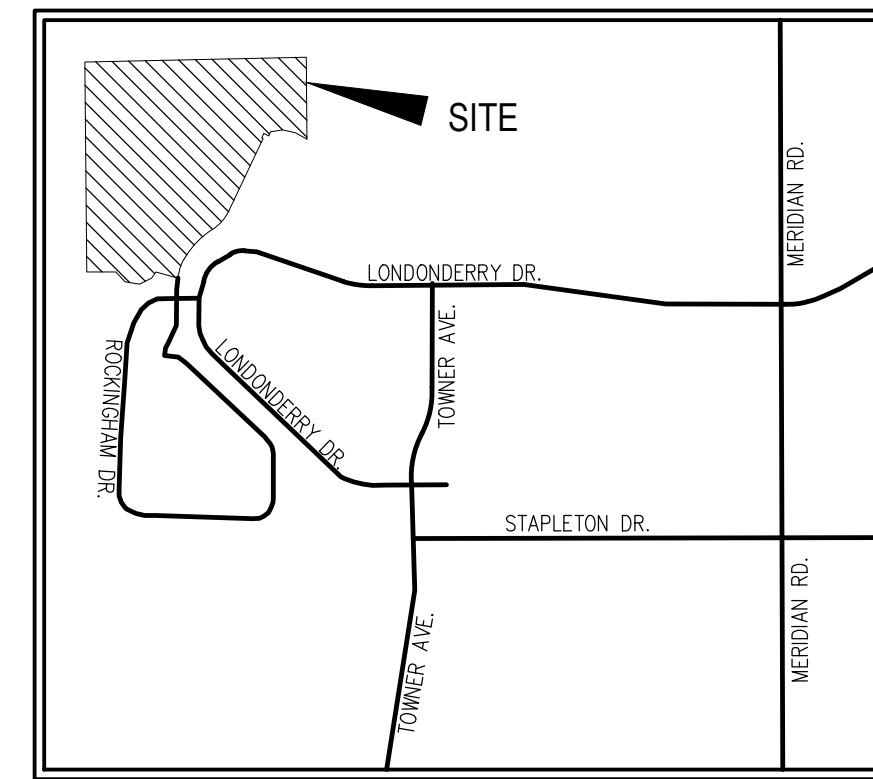
STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- 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, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
d. CDOT M & S STANDARDS.
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (EQCQP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNING AND STRIPING NOTES:

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

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



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AGENCIES

- OWNER/DEVELOPER: THE LANDHUIS COMPANY
212 N. WAHSATCH AVE, SUITE 301
COLORADO SPRINGS, CO 80903
JEFF MARK (719) 635-3200
CIVIL ENGINEER: M & S CIVIL CONSULTANTS, INC.
20 BOULDER CRESCENT, SUITE 110
COLORADO SPRINGS, CO 80903
VIRGIL A. SANCHEZ P.E. (719) 955-5485
COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
MR. GILBERT LAFORCE (719) 520-7945
METRO DISTRICT: PAINT BRUSH HILLS METRO DISTRICT
9830 LIBERTY GROVE DR.
FALCON, CO 80831
MR. LEON GOMES (719) 495-8188
FIRE DEPARTMENT: FALCON FIRE PROTECTION DISTRICT
7030 N. MERIDIAN RD.
FALCON, CO 80831
CHIEF HARWIG (719) 495-4050
GAS DEPARTMENT: BLACKHILLS ENERGY
37 WIDEFIELD BOULEVARD,
WIDEFIELD, COLORADO 80911
MR GEORGE M. PETERSON (719) 392-3491
ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC
P.O. BOX 1600
LIMON, CO 80828
MR. LES ULFERS, (719) 495-2283
TELEPHONE COMPANY: CENTURY LINK
(LOCATORS) 811
A&T
(LOCATORS) 811

APPROVALS:

ENGINEER'S STATEMENT:

DETAILED CONSTRUCTION PLANS AND SPECIFICATIONS ENGINEER'S STATEMENT: THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITY(S) ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS.



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

OWNER/DEVELOPER STATEMENT:

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

MR. JEFF MARK
THE LANDHUIS COMPANY, PRESIDENT
DATE 3-22-21

EL PASO COUNTY:

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, 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. IF CONSTRUCTION HAS NOT YET STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

APPROVED
Engineering Department
09/21/2021 6:32:43 PM
JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR
DATE

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:

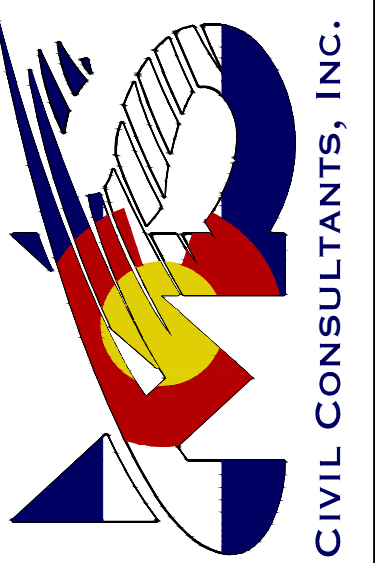
THE NORTH LINE OF SAID TRACT E, SAID LINE ALSO BEING THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE NORTHWEST CORNER WITH A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AND AT THE NORTHEAST 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.



PCD PROJECT NO. SF-2024

PAINT BRUSH HILLS FILING NO. 14
CONSTRUCTION PLANS
PROJECT NO. 10-014
DATE: 03/19/2021
SCALE: HORIZONTAL: N/A VERTICAL: N/A
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW
SHEET 1 OF 30
S101

212 N. WAHSATCH AVE., STE 303
COLORADO SPRINGS, CO 80903
PHONE: 719.955.5485

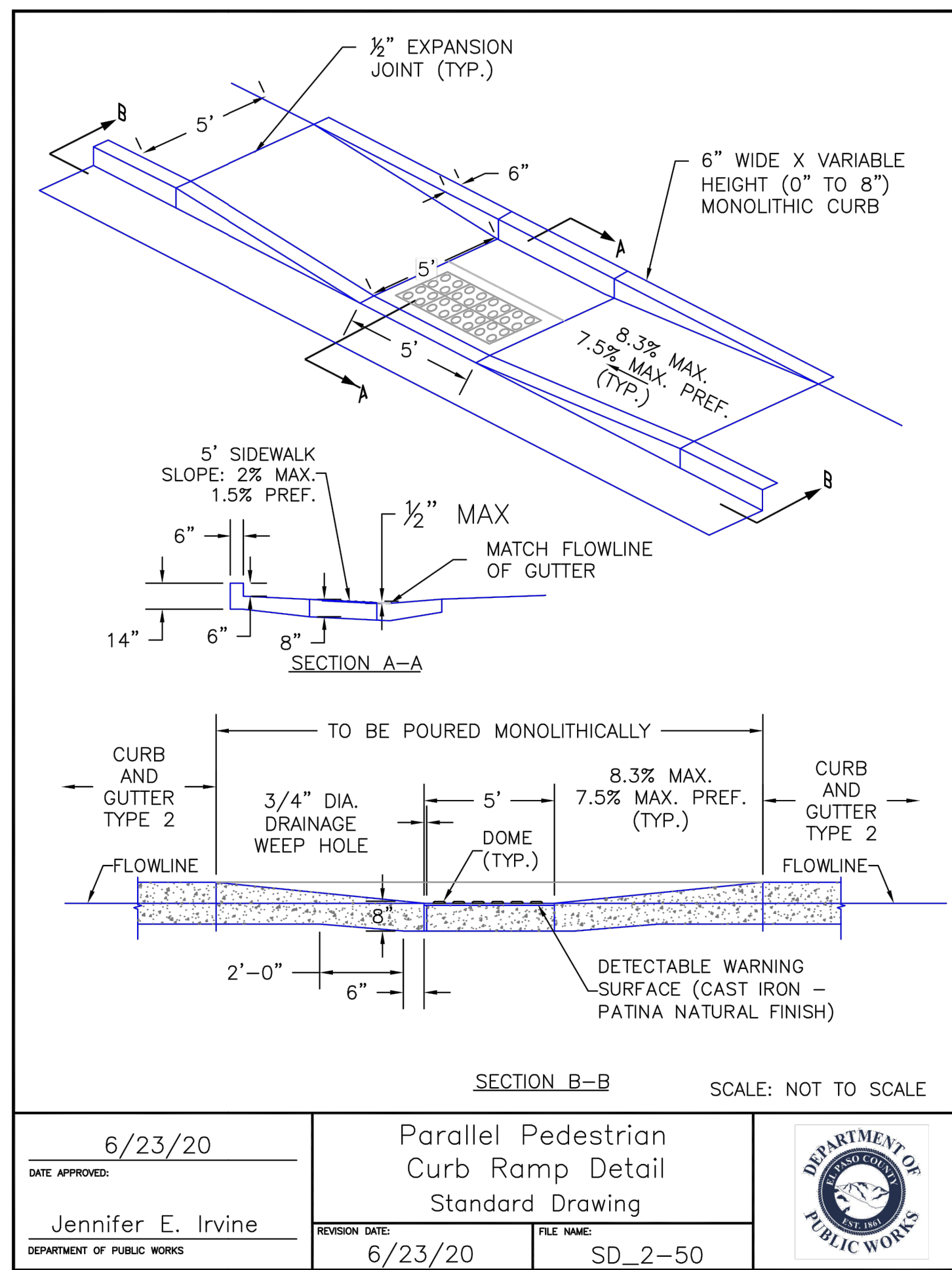


FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

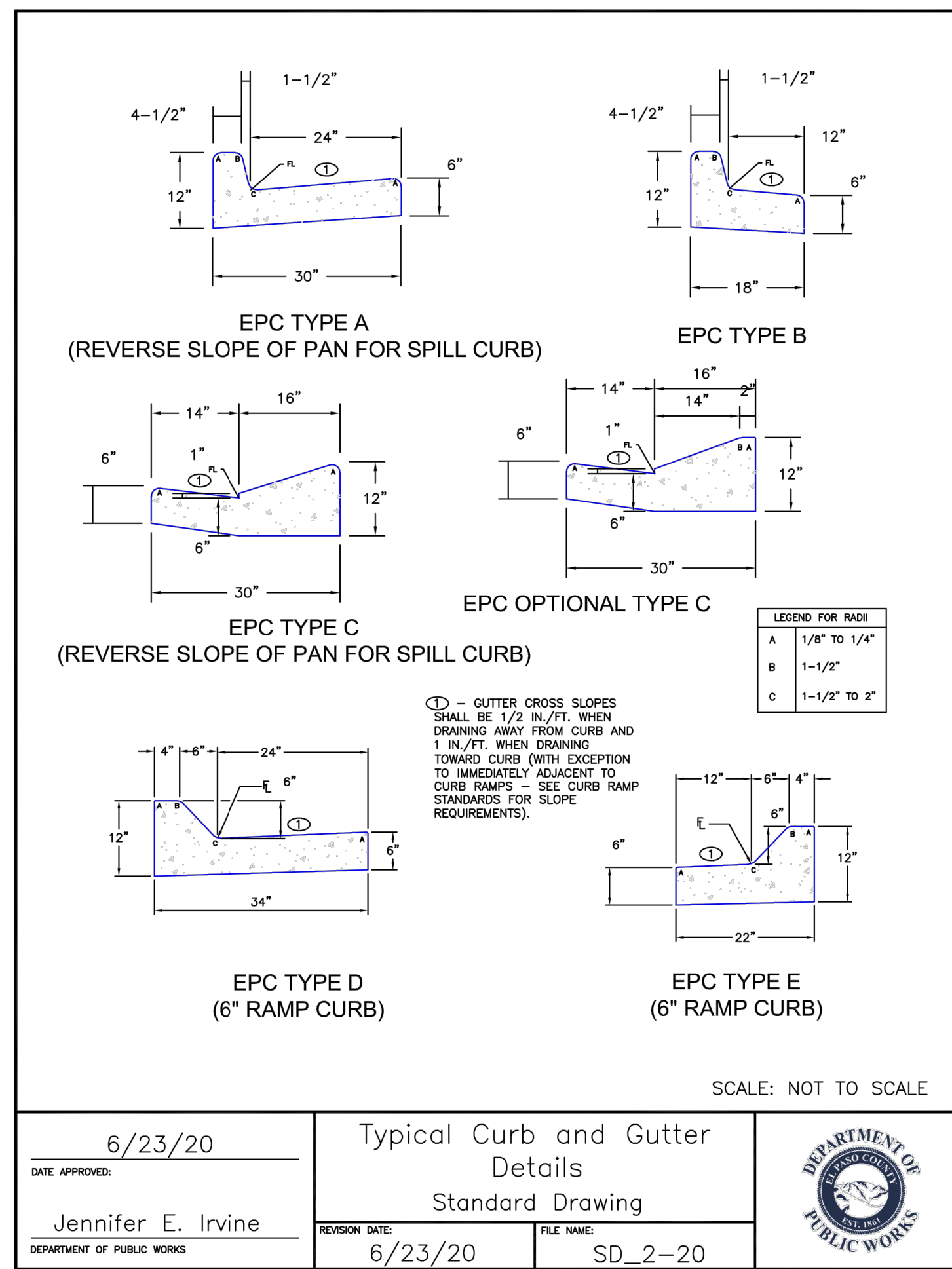


Table with columns: REVISIONS, NO., DATE, BY, DESCRIPTION. Includes a note: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

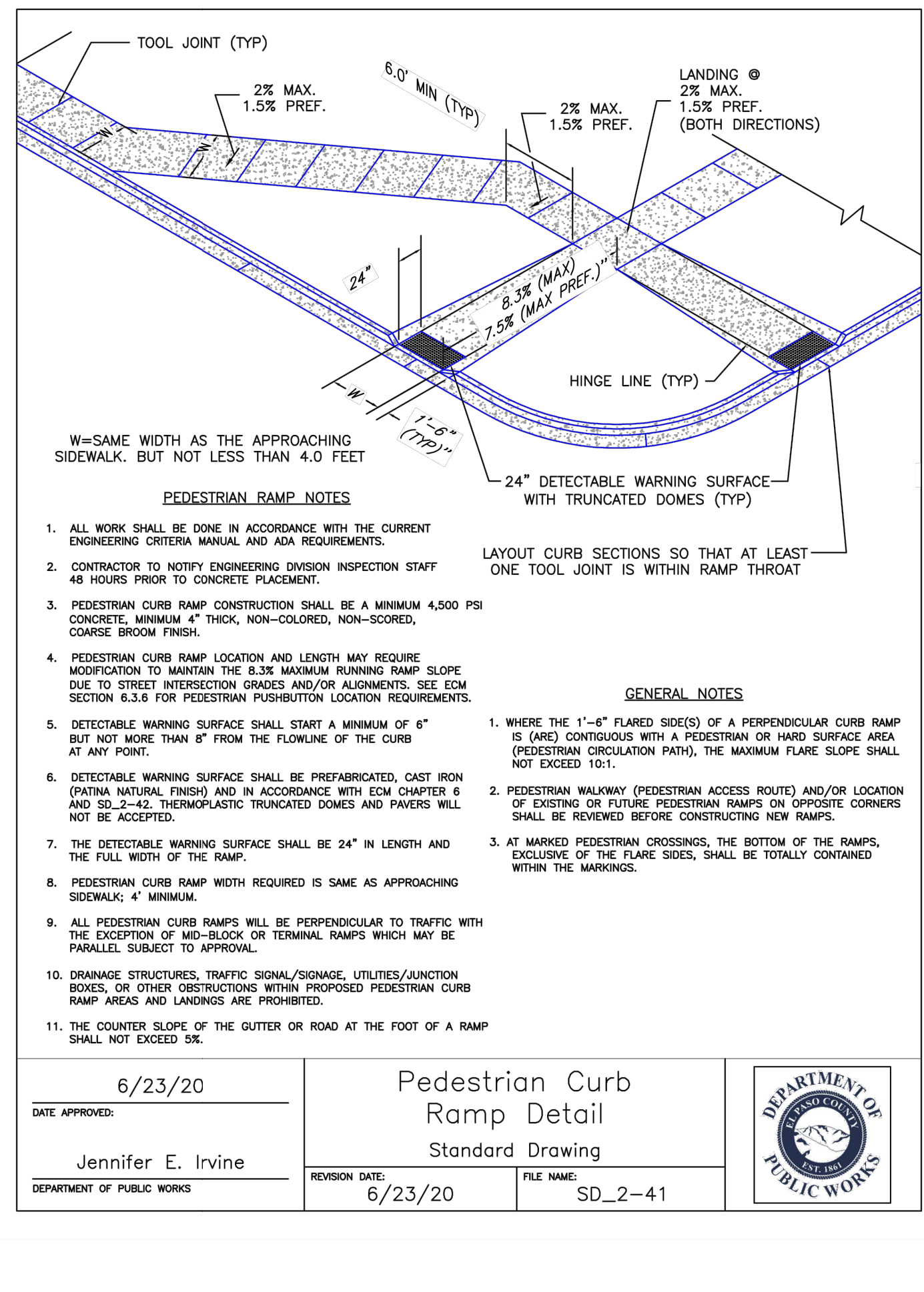
CAUTION



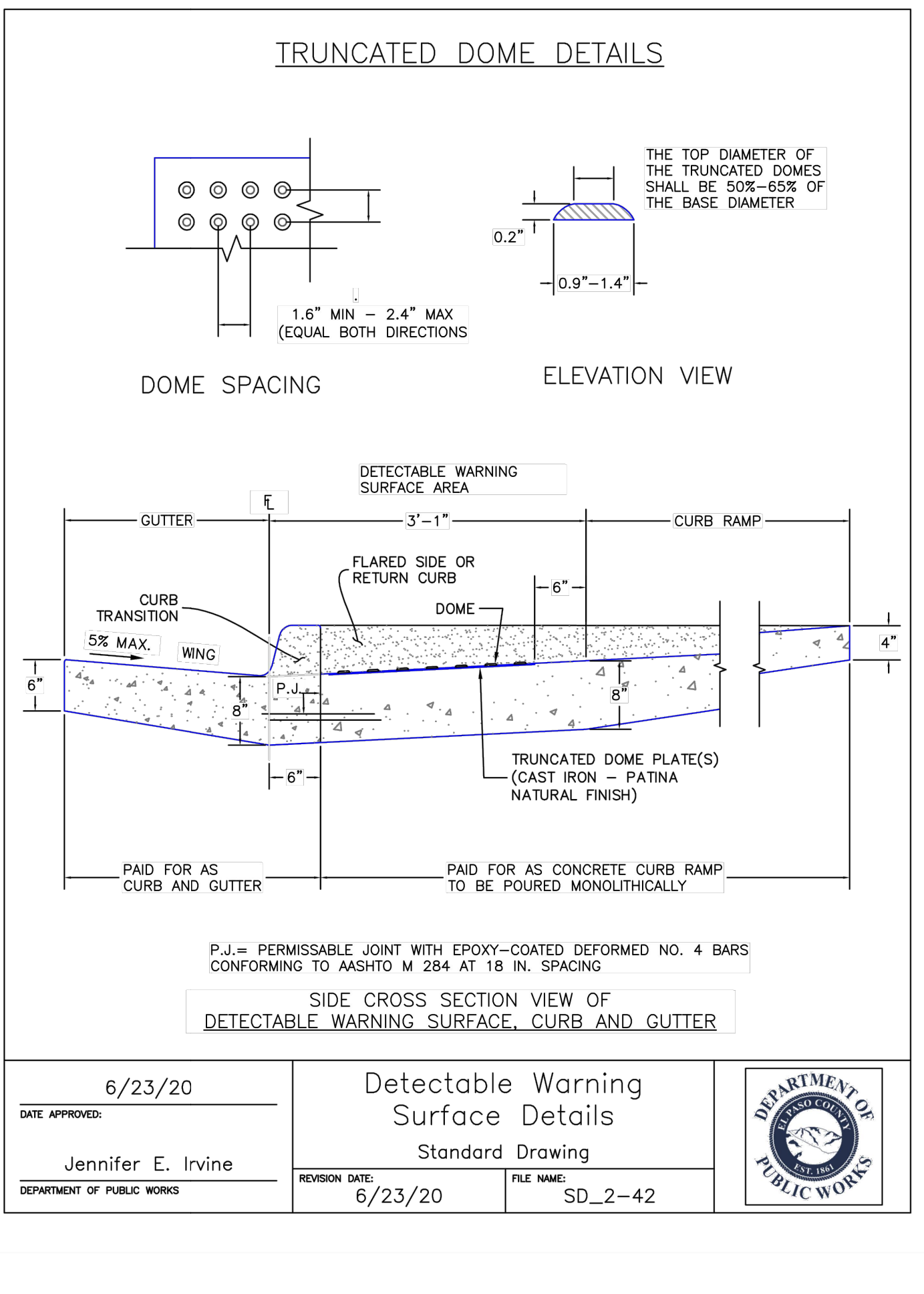
6/23/20	Parallel Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED: Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-50	



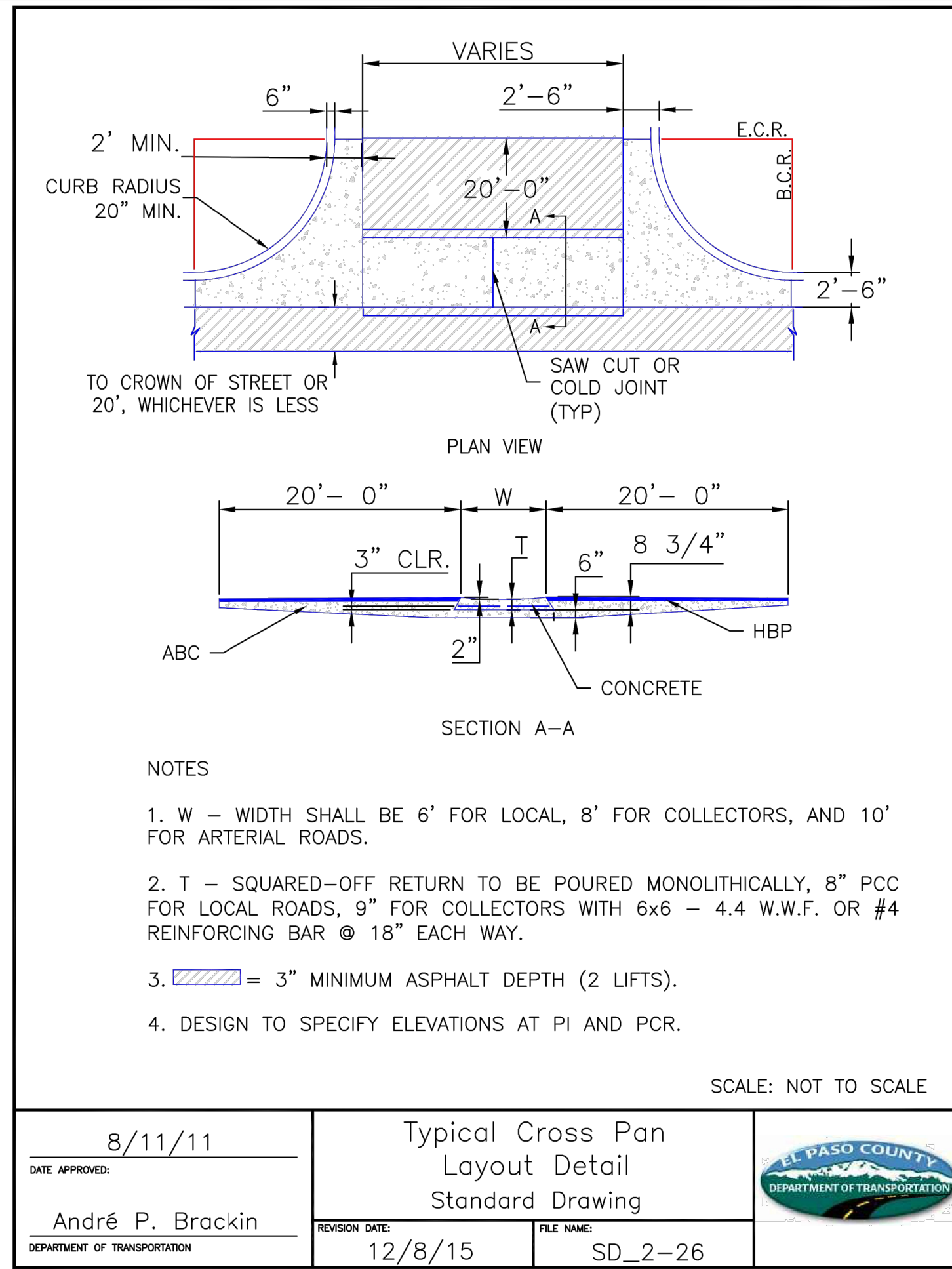
6/23/20	Typical Curb and Gutter Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED: Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-20	



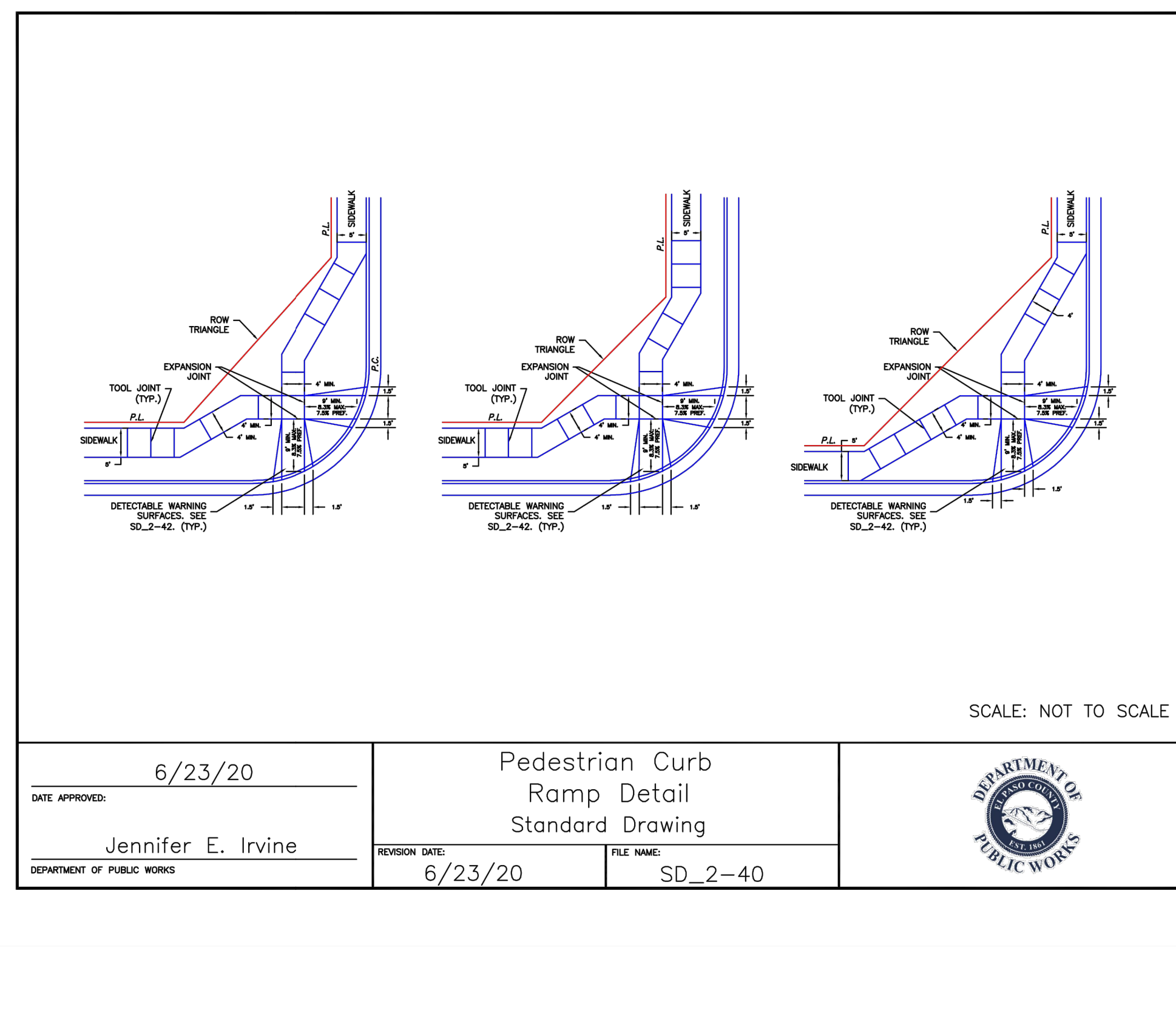
6/23/20	Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED: Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-41	



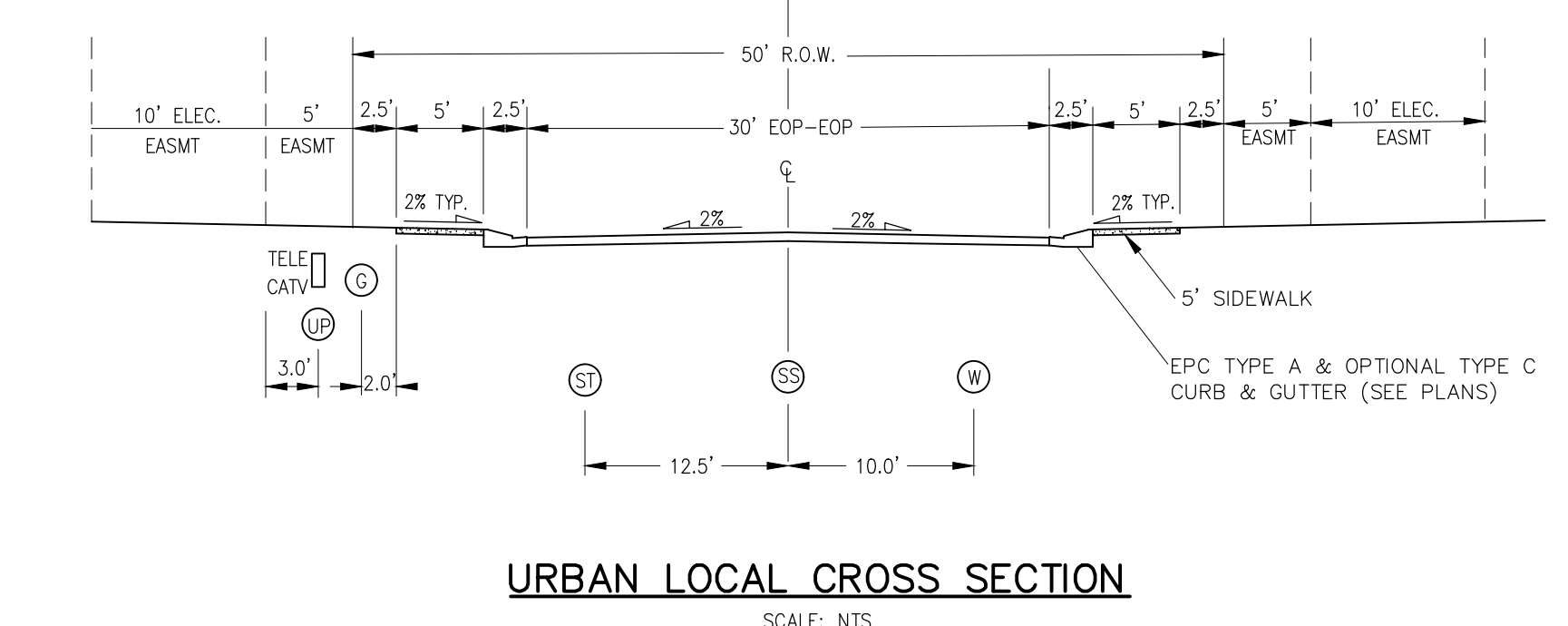
6/23/20	Detectable Warning Surface Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED: Jennifer E. Irvine	REVISION DATE: 6/23/20 FILE NAME: SD_2-42	



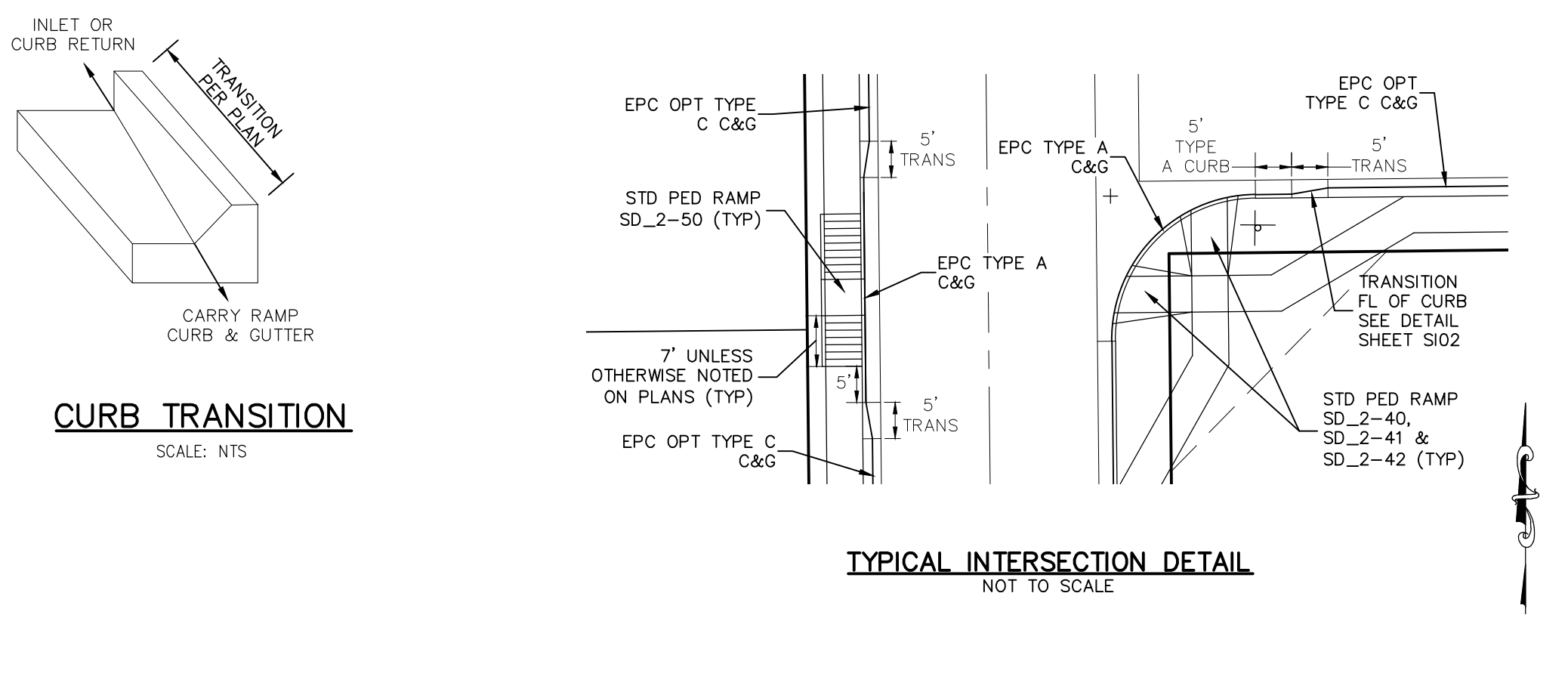
8/11/11	Typical Cross Pan Layout Detail Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
DATE APPROVED: André P. Brackin	REVISION DATE: 12/8/15 FILE NAME: SD_2-26	



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



URBAN LOCAL CROSS SECTION SCALE: NTS



TYPICAL INTERSECTION DETAIL NOT TO SCALE

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
DESIGNED BY: JWP
DRAWN BY: JWP
CHECKED BY: 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.

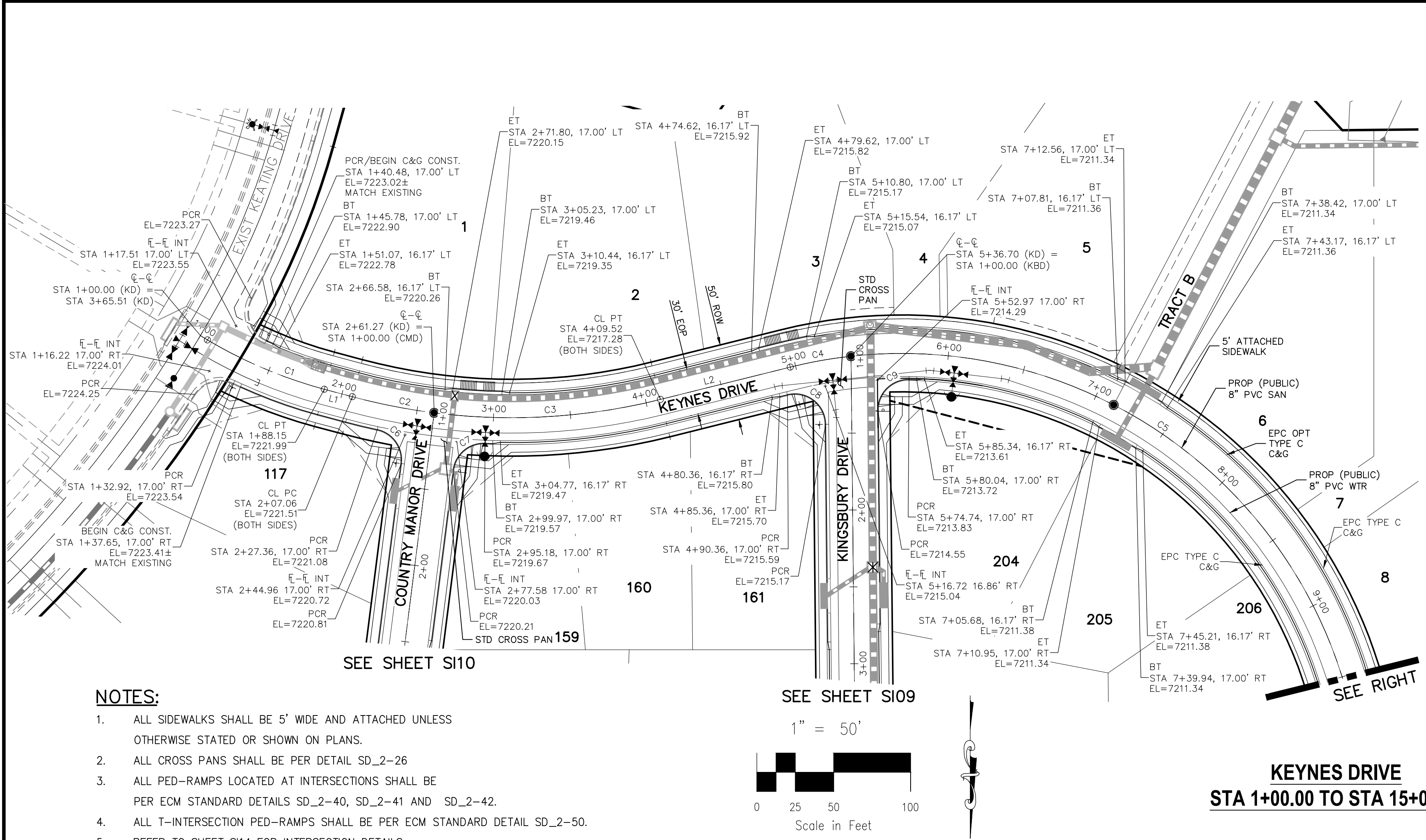
PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 3-22-21

REVISIONS:

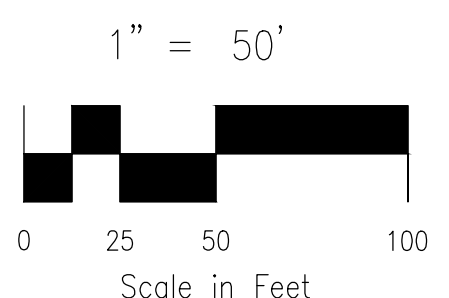
NO.	DATE	DESCRIPTION

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

CURVE	RADIUS	LENGTH	DELTA
C1	300.00'	82.73'	15°48'00"
C2	400.00'	54.21'	7°45'52"
C3	400.00'	148.25'	21°14'08"
C4	300.00'	40.20'	7°40'39"
C5	300.00'	501.29'	95°44'21"

CENTERLINE LINE TABLE

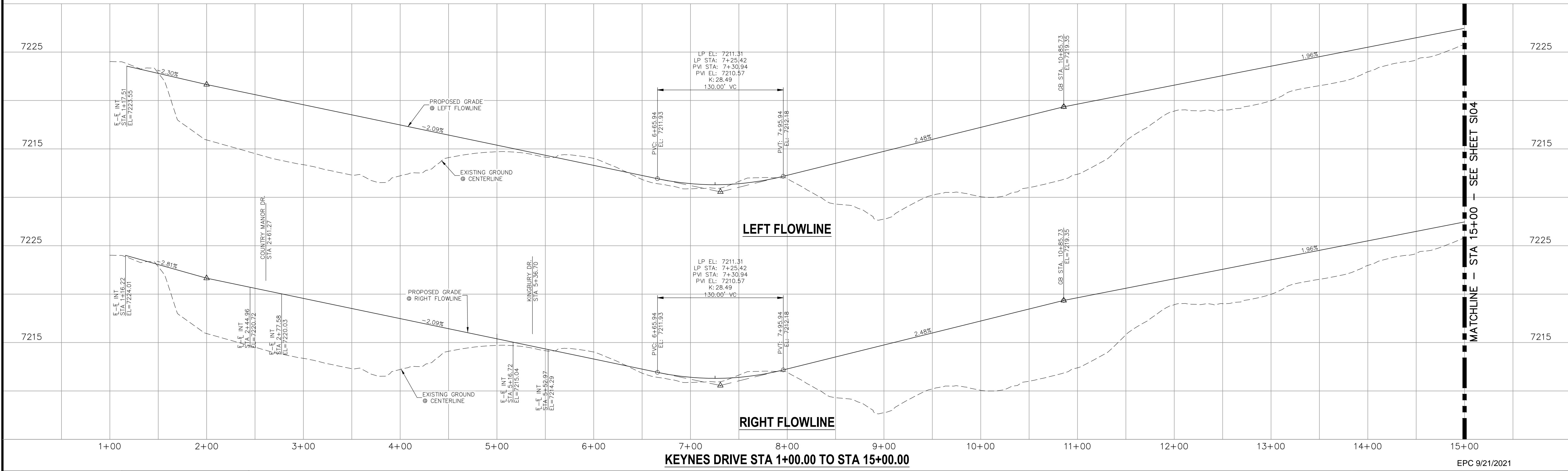
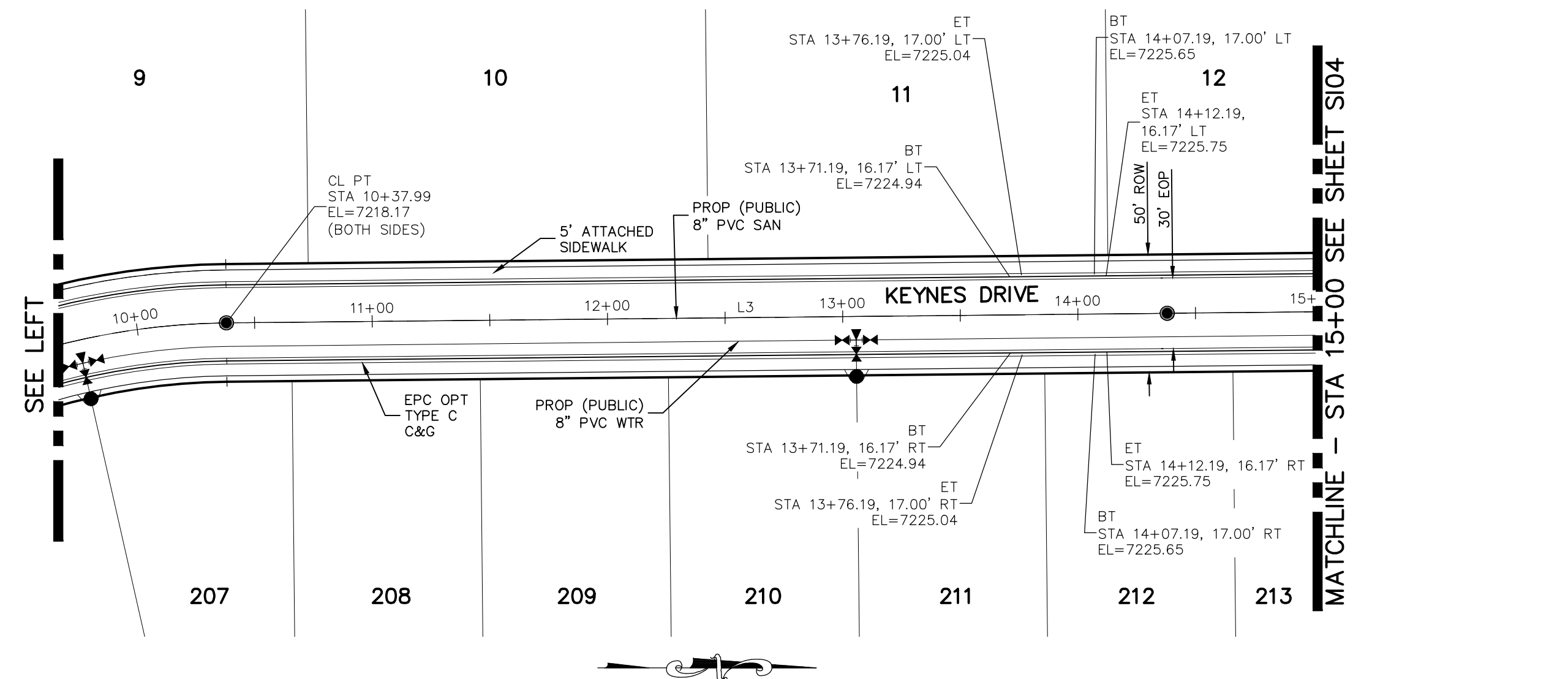
LINE	LENGTH	DIRECTION
L1	18.91'	N75°00'00"W
L2	86.98'	S76°00'00"W
L3	1422.70'	N0°35'00"W

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 RIGHT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	FL	TOP BACK OF CURB
ET	END TRANSITION	TBC	CROSSPAN STANDARD
PC	POINT OF CURVE	STD	SHEET
PCC	POINT OF COMPOUND CURVE	P&P	PLAN AND PROFILE
PCR	POINT OF CURVE RETURN	C&G	CURB AND GUTTER
PRC	POINT OF REVERSE CURVE	W	WEST
PT	POINT OF TANGENT	E	EAST
EL	ELEVATION	ROW	RIGHT OF WAY
CDS	CUL-DE-SAC	EOP	EDGE OF PAVEMENT
KN	KNUCKLE	WTR	WATER
LP	LOOP	SAN	SANITARY SEWER
N	NORTH	PROP	PROPOSED
S	SOUTH	COLL	COLLECTOR
LD	KEYNES DRIVE	LPT	LOW POINT
HD	HARTWOOD DRIVE	RES	RESIDENTIAL
GMD	GRACE MANOR DRIVE		
CMD	COUNTRY MANOR DRIVE		
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>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>

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 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\jprince\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	XPAN	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

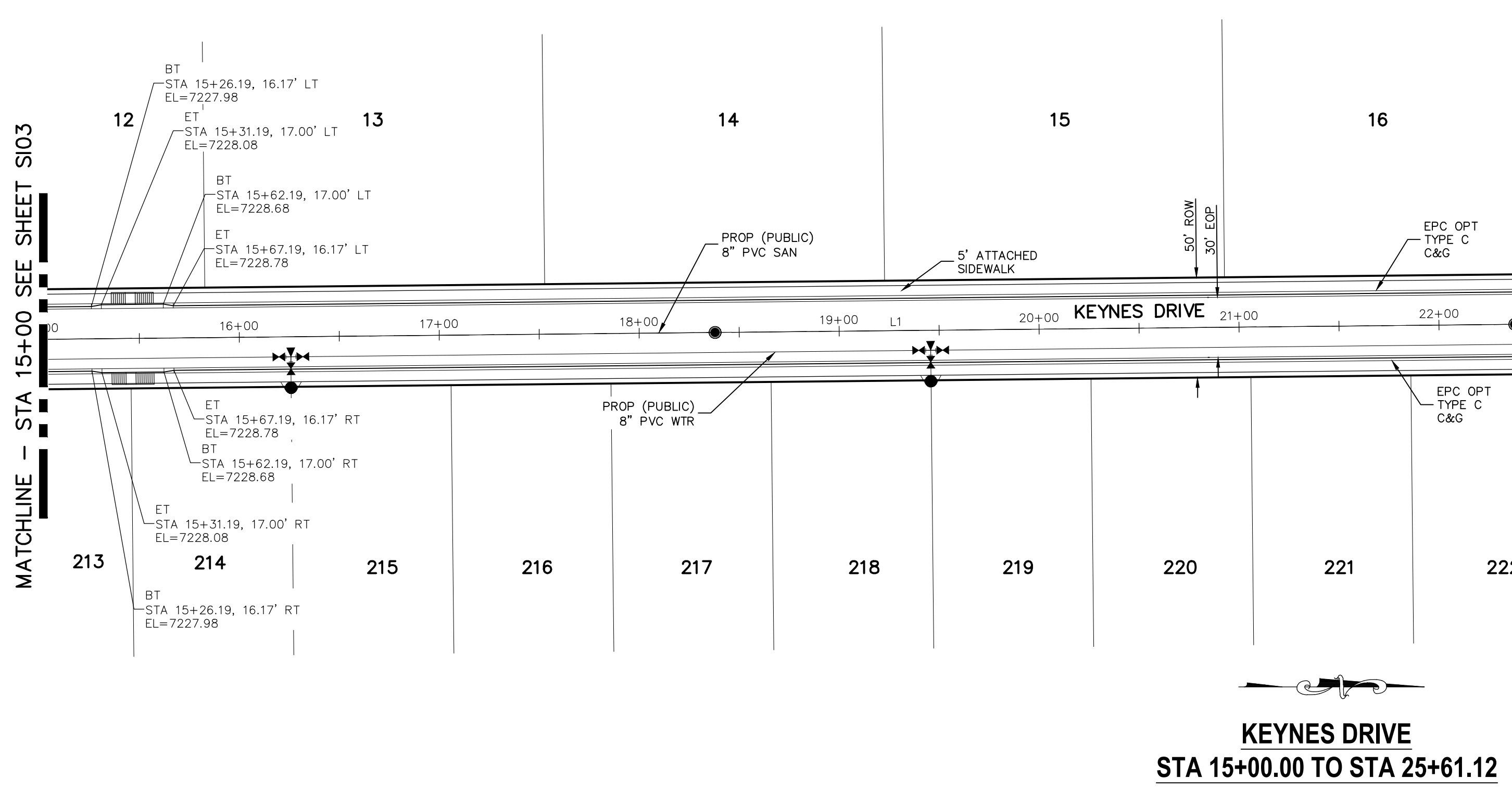
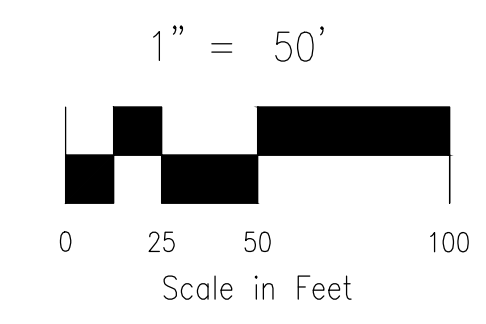
CURVE	RADIUS	LENGTH	DELTA
C2	45.00	113.94	145.08
C5	45.00	63.13	80.38
C6	45.83	28.93	36.17

CENTERLINE CURVE TABLE

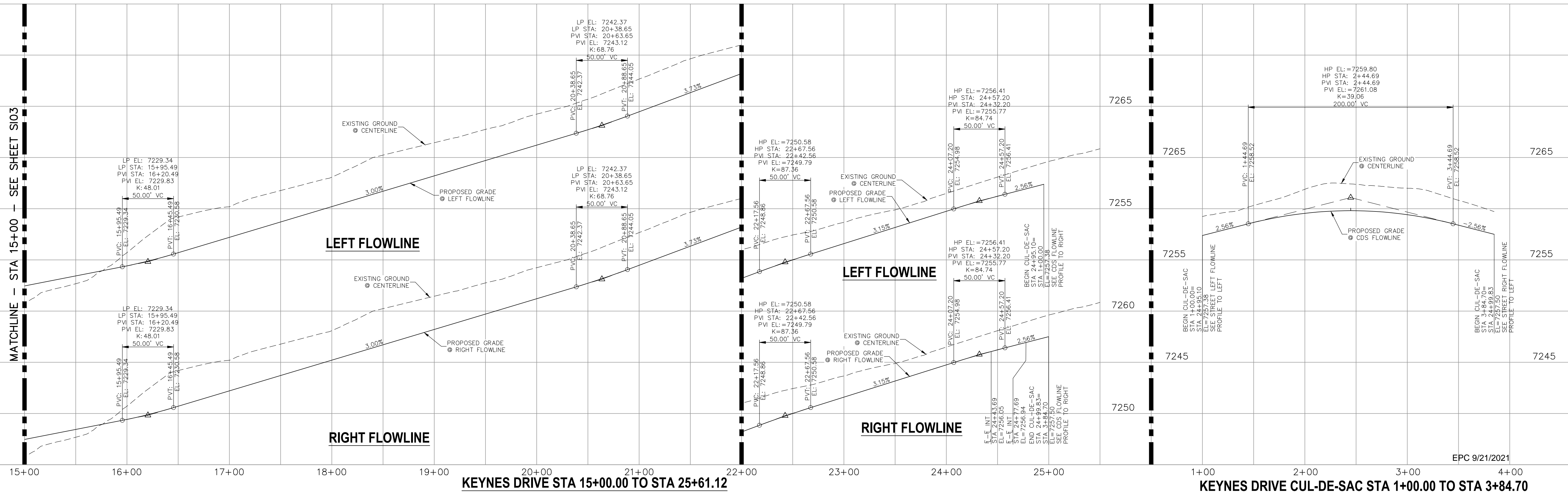
CURVE	RADIUS	LENGTH	DELTA
C1	45.00'	37.06'	47°10'57"
C3	45.00'	22.14'	28°11'11"
C4	44.17'	5.00'	6°29'09"

PCR CURVE TABLE

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



- NOTES:**
- 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.



<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>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>

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 4 OF 30

CHECKED BY: GW S104

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

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

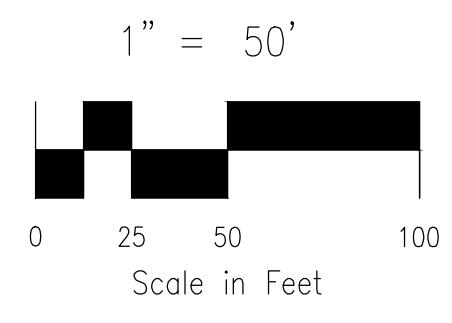
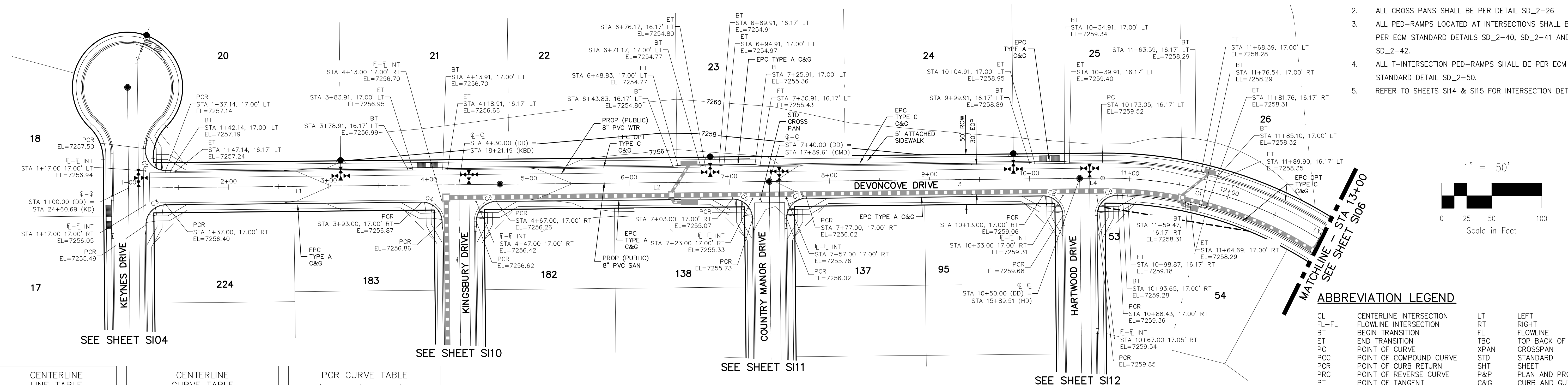
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

APPROVED BY: _____ DATE: _____

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

- 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.



ABBREVIATION LEGEND

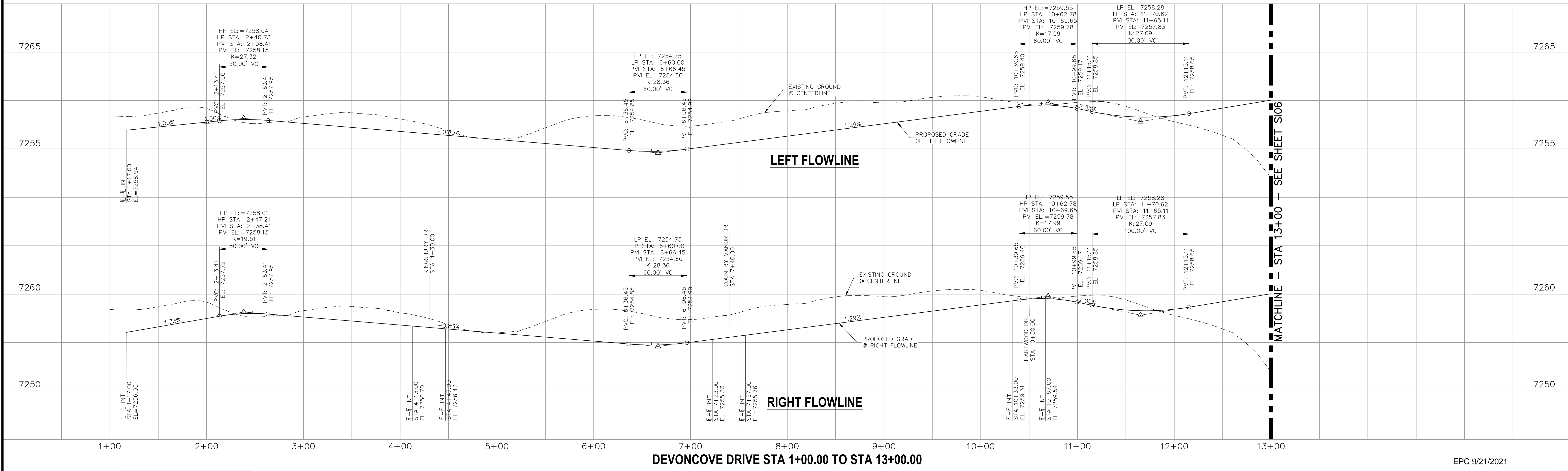
CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	ET	END TRANSITION
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	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	LFT	LOW POINT
CMD	COUNTRY MANOR DRIVE	RES	RESIDENTIAL
KBD	KINGSBURY DRIVE		
WD	WATERLOO DRIVE		
FC	FINSBURY COURT		
DD	DEVONCOVE DRIVE		
HP	HIGH POINT		

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



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.

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

NO.	DATE	BY	DESCRIPTION

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.



REVIEW:	DATE:
TRAFFIC ENGINEERING:	
CURB & GUTTER:	
FINAL REVIEW:	
DRAINAGE DESIGN:	
DRAINAGE REVIEW:	

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: _____

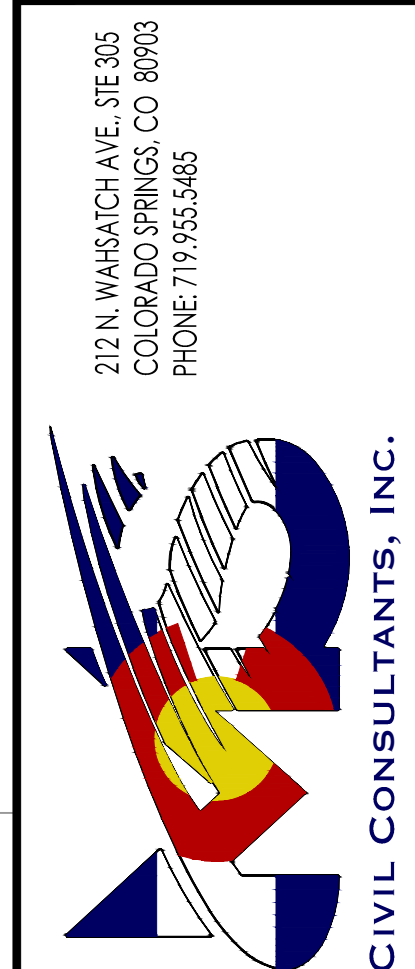
CURB TYPE: C Class 6 _____

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

STREET TYPE: RESIDENTIAL HVECM Class 2 _____

DESIGN SPEED: 25 MPH _____

CAUTION



FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
 M&S CIVIL CONSULTANTS, INC.
 37160
 3-22-21
 PROFESSIONAL

REVISIONS:

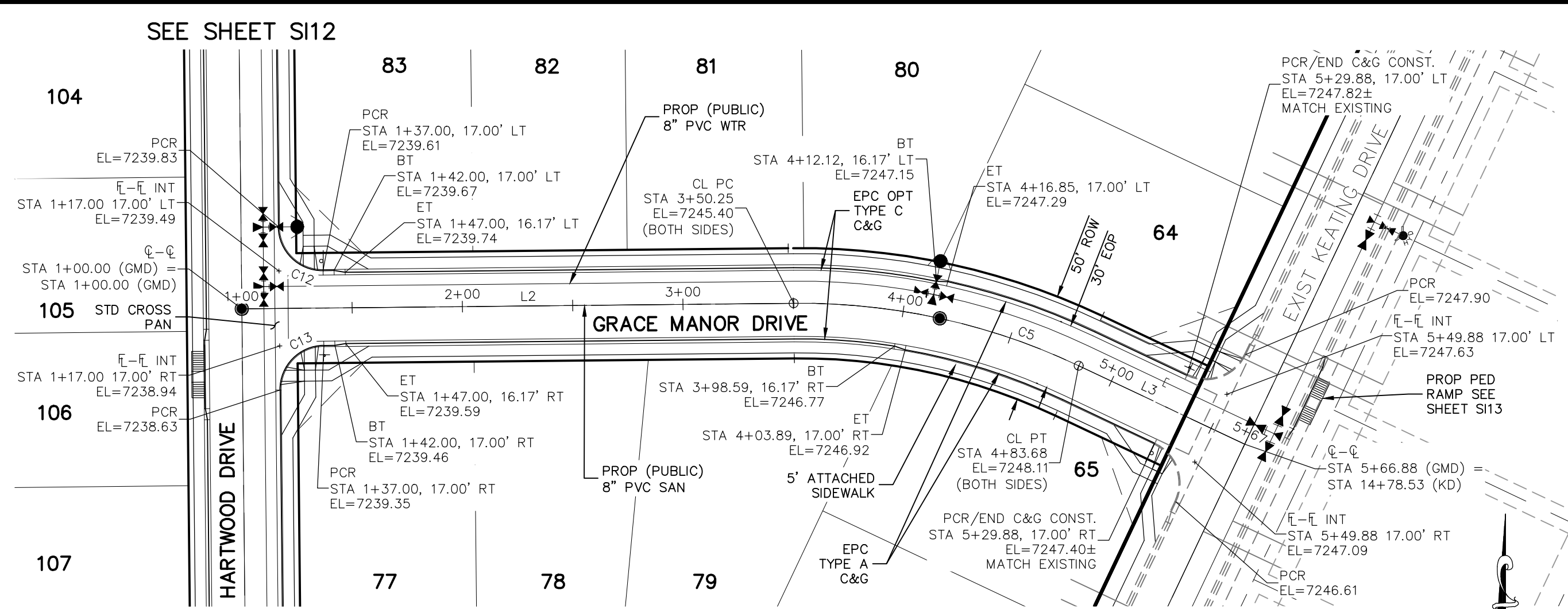
NO.	DATE	BY	DESCRIPTION

APPROVED BY: _____ DATE: _____

DESIGNED BY: _____ DATE: _____

DRAWN BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____



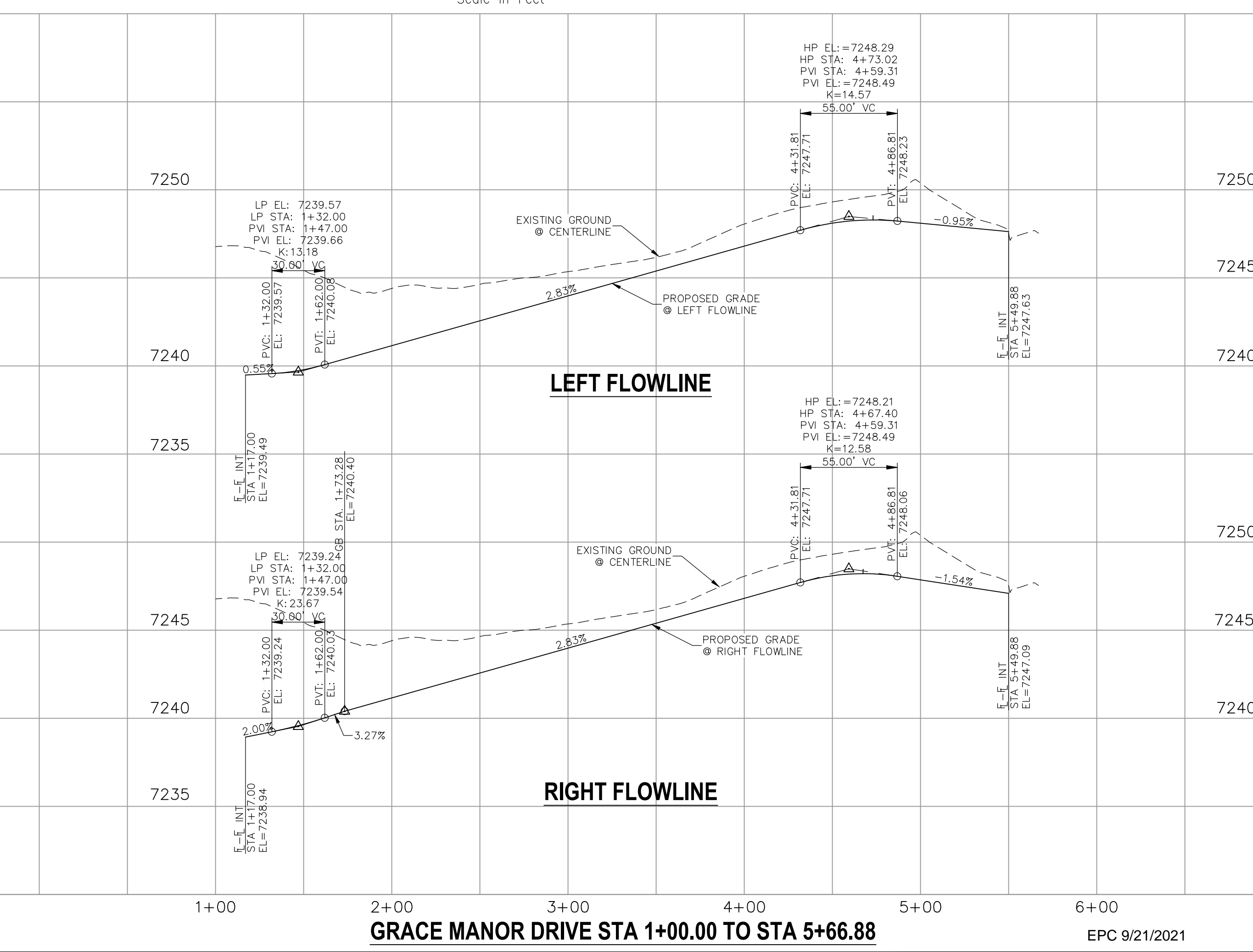
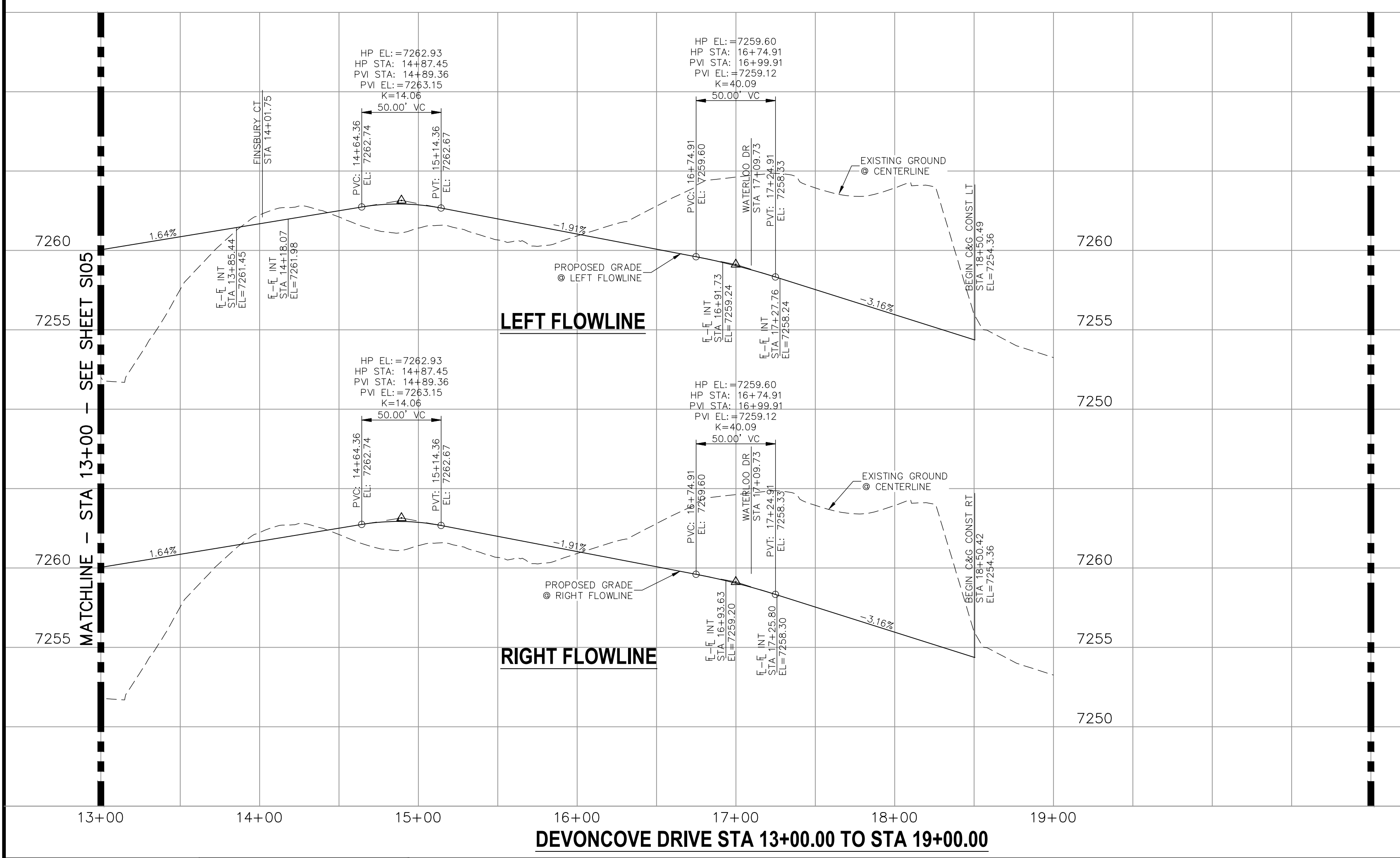
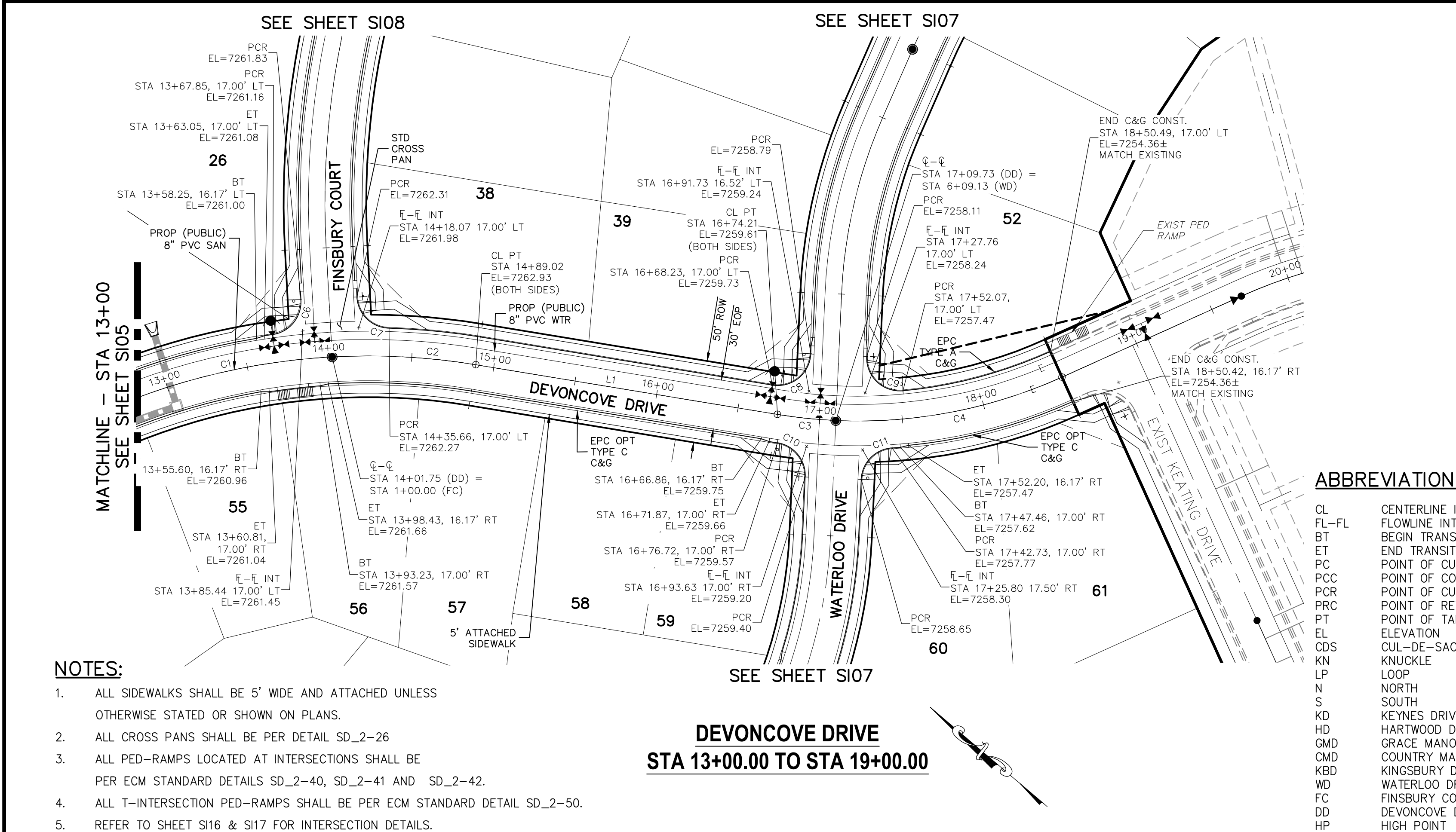
**GRACE MANOR DRIVE
STA 1+00.00 TO STA 5+66.88**

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

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"

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

1" = 50'
 Scale in Feet



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

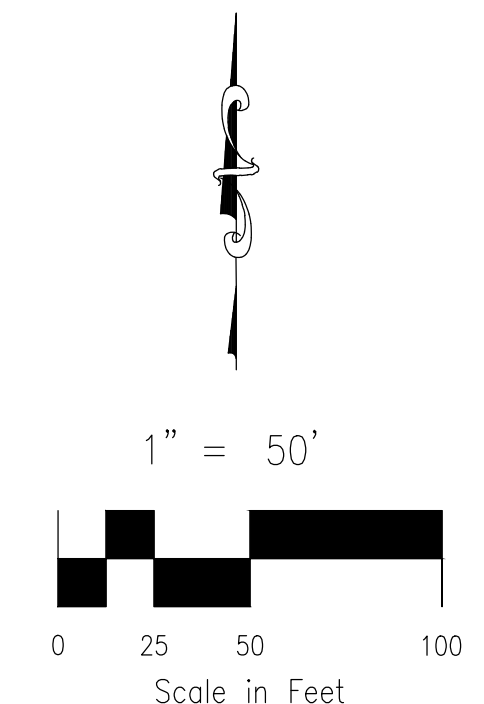
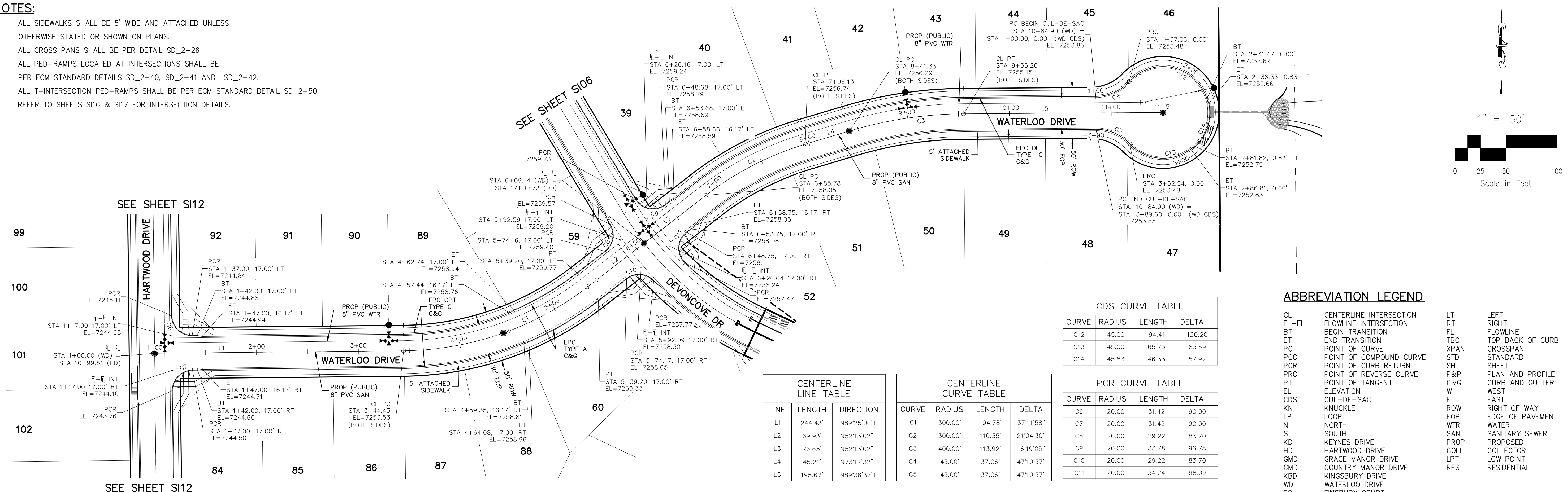
DRAINAGE DESIGN:
 DRAINAGE REVIEW: _____ DATE: _____
 FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

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 _____

File: C:\Users\joprice\Documents\100144-PBH 14\Draw\Corral Draw\STREET\SI06.dwg PlotStamp: 3/19/2021 10:10 AM

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"

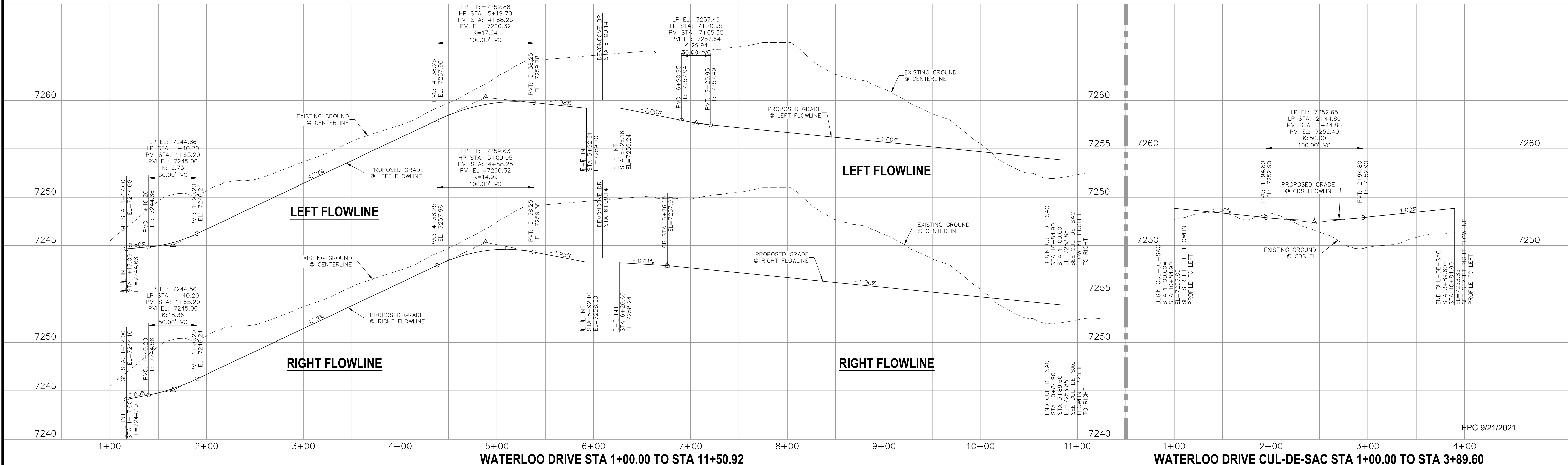
PCR CURVE TABLE

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	PC	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 ELEVATION	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:

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 CENTERED IN 5' EASEMENT

AC Surface _____

AB Base _____

CURB TYPE: A B _____

AGG. BASE THICKNESS: _____

CLASS: _____

CURB TYPE: C B _____

ROW WIDTH: 50' EOP-EOP 30' Class 6 _____

STREET TYPE: RESIDENTIAL HVEEM Class 5 _____

DESIGN SPEED: 25 MPH Class 2 _____

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 7 OF 30

CHECKED BY: GW S107

212 N. WASHBACH 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. 37160

APPROVED BY: _____ DATE: _____

REVISIONS:

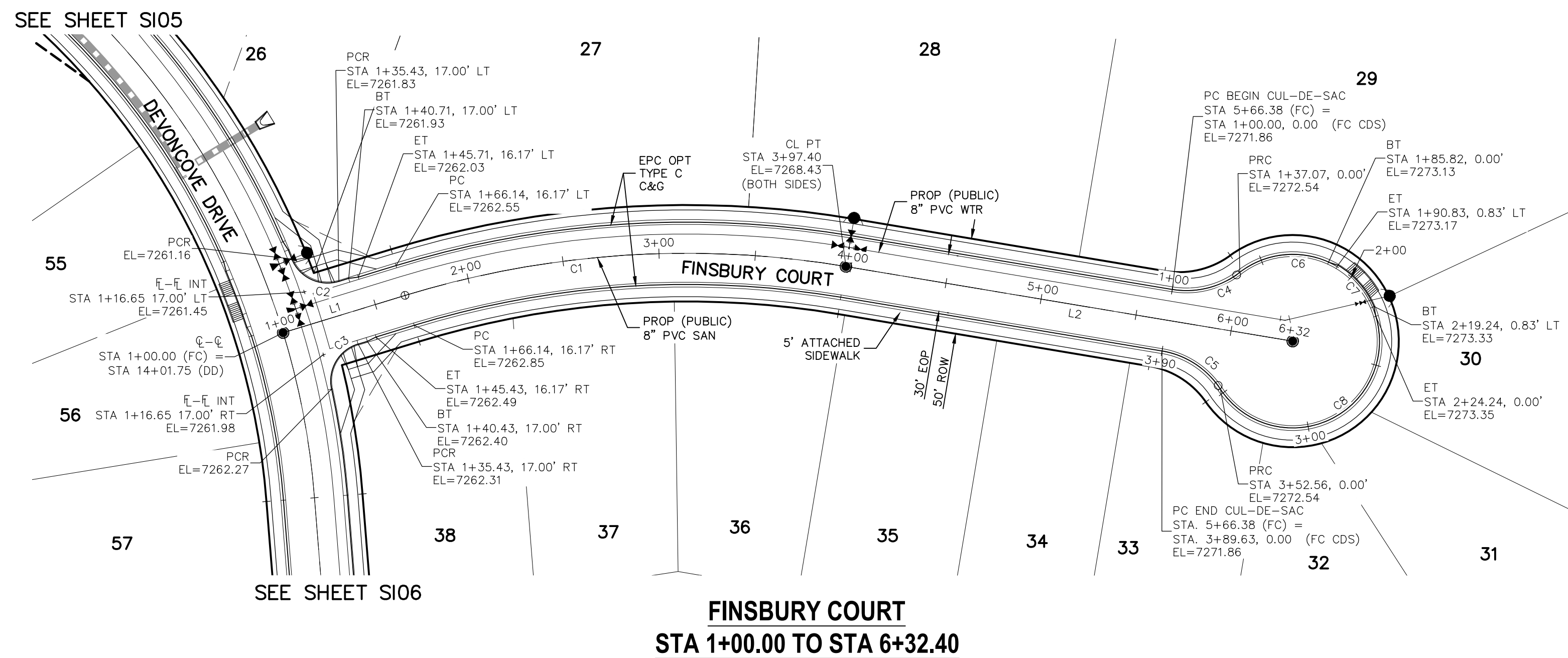
NO.	DATE	DESCRIPTION

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 SI17 FOR INTERSECTION DETAILS.



ABBREVIATION LEGEND

CL-FL	CENTERLINE INTERSECTION FLOWLINE INTERSECTION	LT	LEFT FLOWLINE
BT	BEGIN TRANSITION	RT	RIGHT FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD SHEET
PCR	POINT OF CURB RETURN	SHT	PLAN AND PROFILE SHEET
PRC	POINT OF REVERSE CURVE	P&P	C&G
PT	POINT OF TANGENT	W	WEST
EL	ELEVATION	E	EAST
CDS	CUL-DE-SAC	R	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		

PAINT BRUSH HILLS FILING NO. 14

STREET IMPROVEMENT PLANS

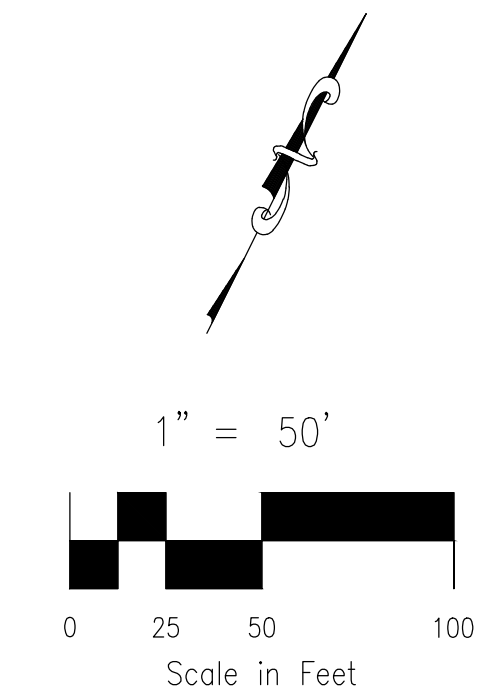
PROJECT NO. 10-014
 DATE: 03/19/2021
 SCALE: HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

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

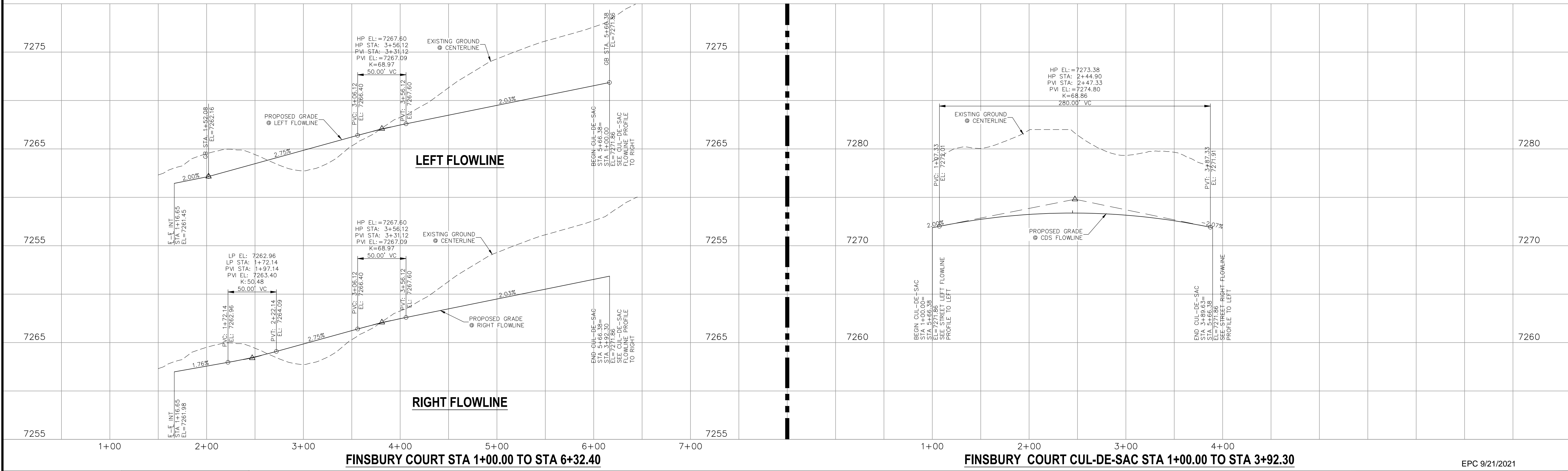
CURVE	RADIUS	LENGTH	DELTA
C1	500.00'	231.26'	26°30'00"

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



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

REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:

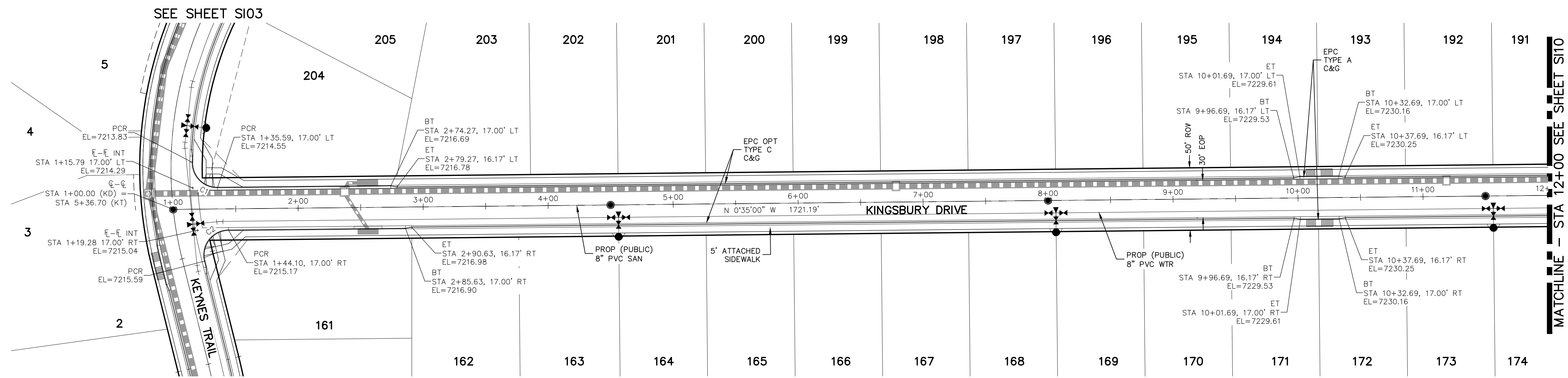
APPROVED BY: _____ DATE: _____
 EPC 9/21/2021

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

PROFESSIONAL SEAL: VIRGIL A. SANCHEZ, P.E. NO. 37160, 3-22-21

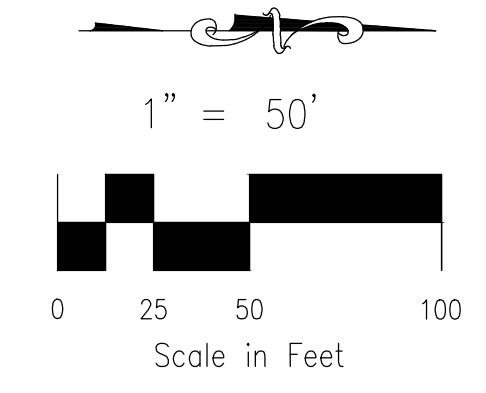
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



PCR CURVE TABLE

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



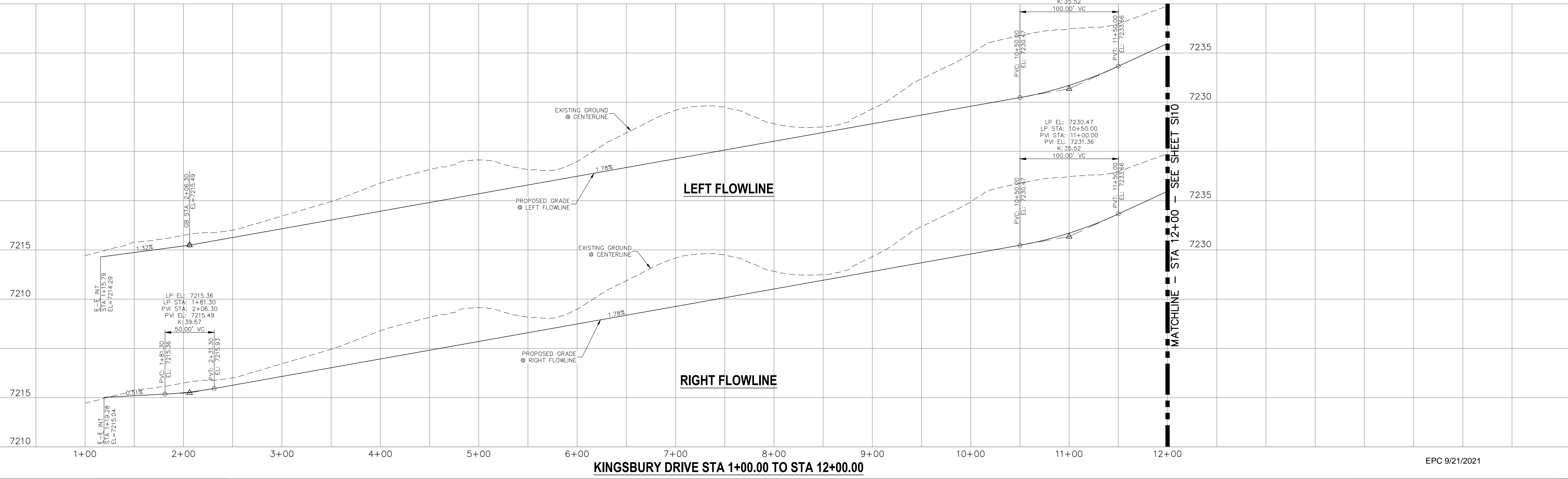
**KINGSBURY DRIVE
STA 1+00.00 TO STA 12+00.00**

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 S114 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

EPC 9/21/2021

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
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

REVISIONS:

NO.	DATE	BY	DESCRIPTION

APPROVED BY: _____ DATE: _____
DRAWN BY: _____
CHECKED BY: _____

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

CAUTION

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. 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.

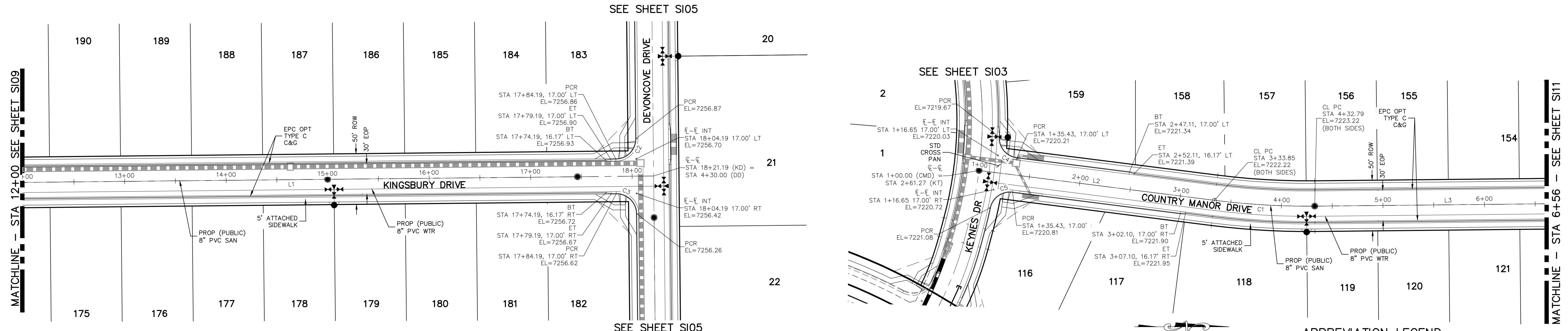
REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 3-22-21

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

APPROVED BY: _____ DATE: _____
DRAWN BY: _____
CHECKED BY: _____

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.

File: C:\Users\joprice\Documents\100144-PBH 14\Draw\Contd Draw\STREET\S109.dwg Plotstamp: 3/19/2021 10:20 AM



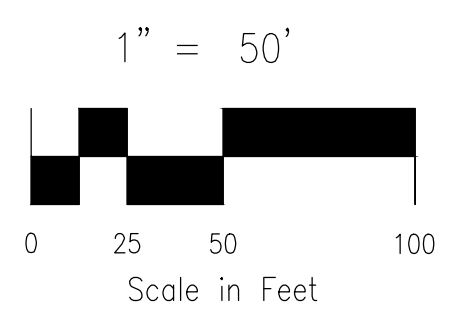
**KINGSBURY DRIVE
STA 12+00.00 TO STA 18+21.19**

**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

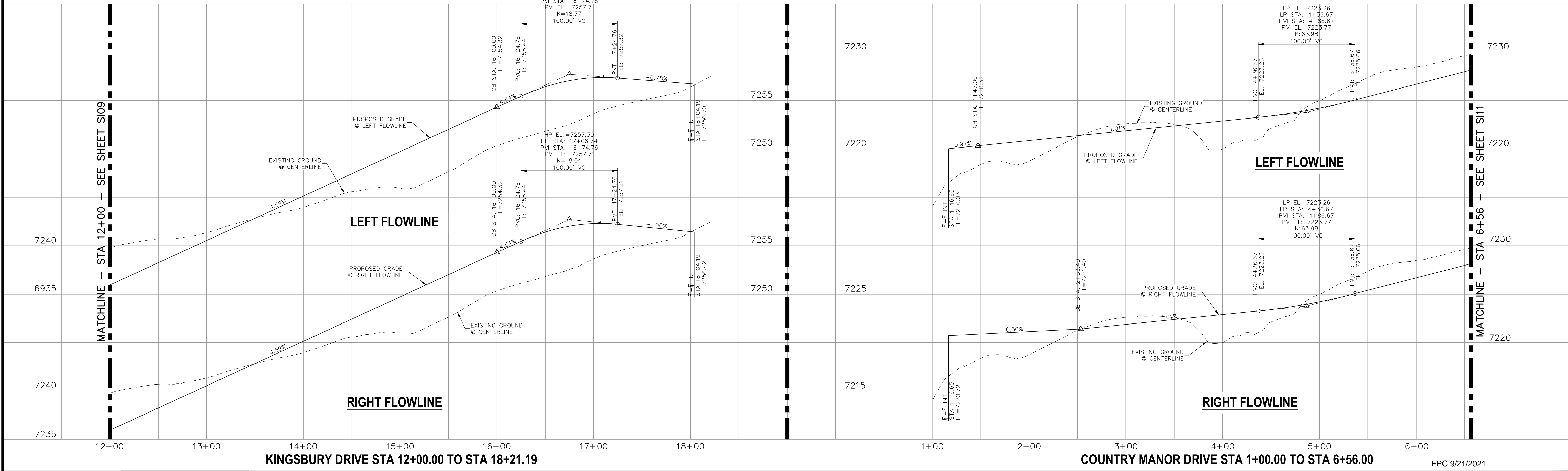
LINE	LENGTH	DIRECTION
L1	1721.19'	N0°35'00"W
L2	233.85'	N71°4'09"E
L3	1356.82'	N0°35'00"W

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 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

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

DRAWN BY: JWP SHEET 10 OF 30

CHECKED BY: GW S110

212 N. WARATCH 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

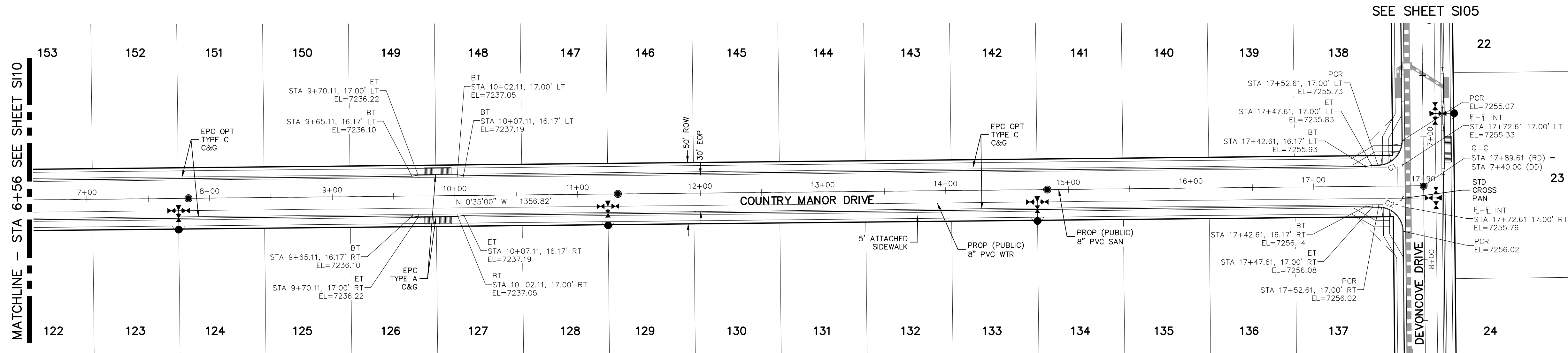
APPROVED BY: _____ DATE: _____

REVISIONS:

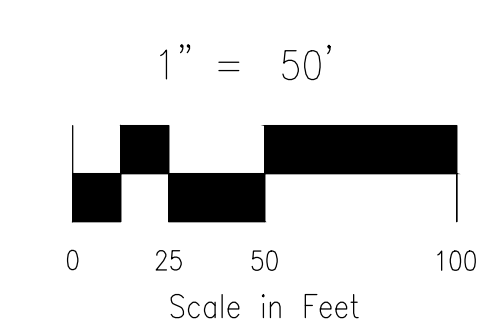
NO.	DATE	DESCRIPTION

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



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



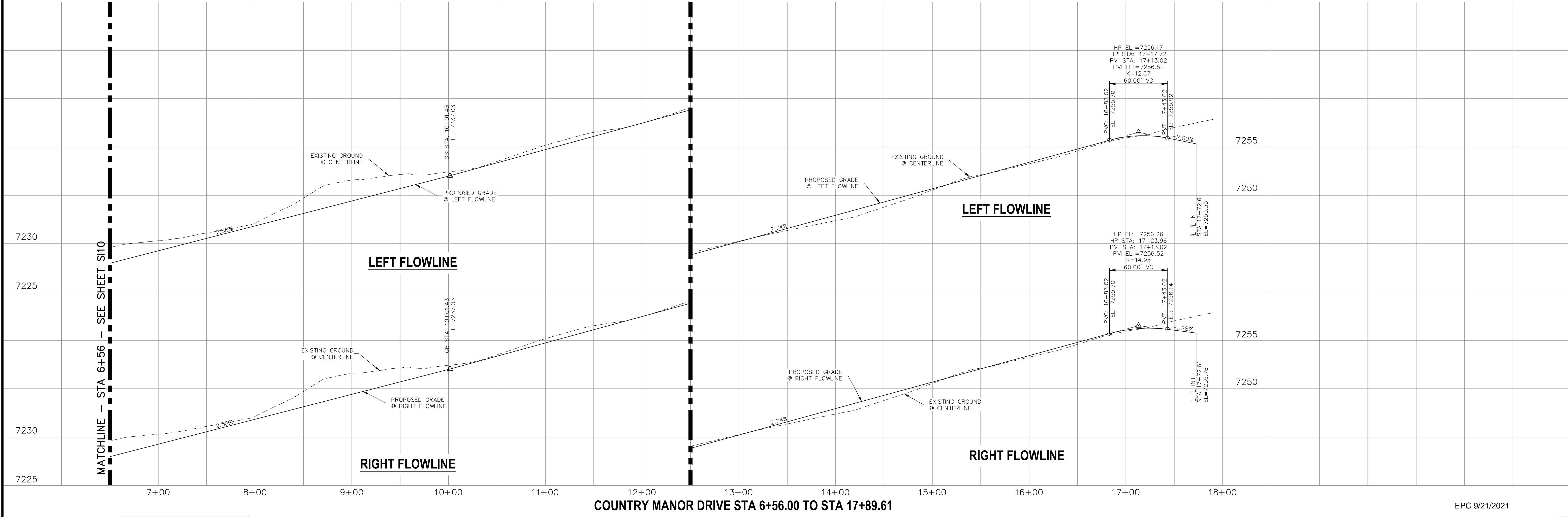
ABBREVIATION LEGEND

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
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 SHEET S115 FOR INTERSECTION DETAILS.

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



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

EPC 9/21/2021

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 HVECM 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

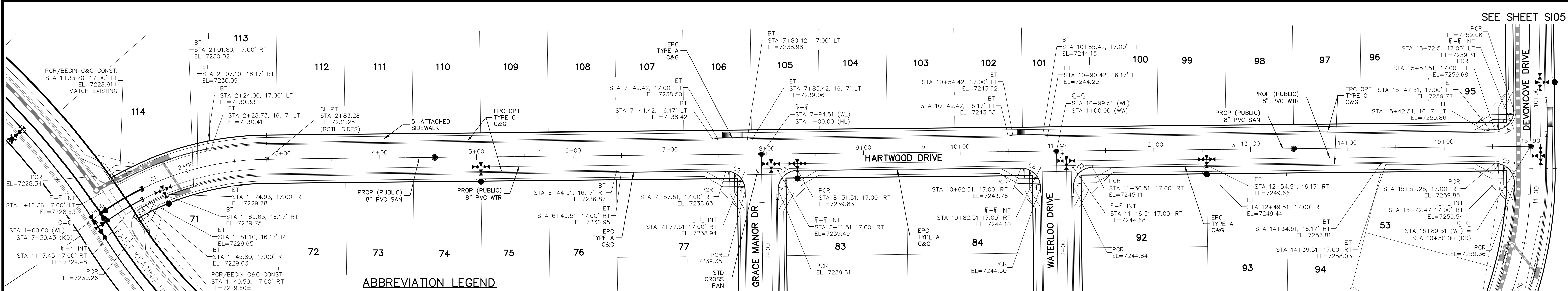
212 N. WABATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

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



- 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 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
EL	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

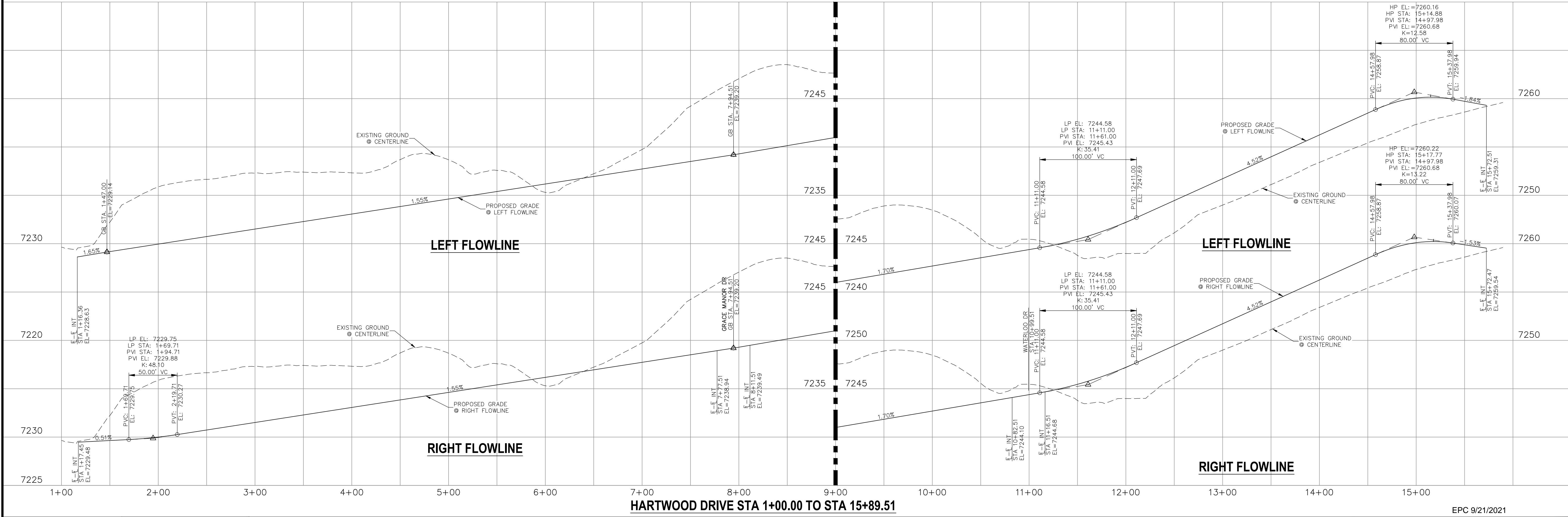
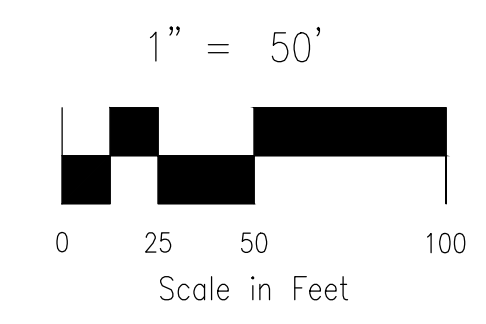
LINE	LENGTH	DIRECTION
L1	511.23'	N0°35'00"W
L2	305.00'	N0°35'00"W
L3	490.00'	N0°35'00"W

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



HARTWOOD DRIVE STA 1+00.00 TO STA 15+89.51

EPC 9/21/2021

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 _____
CURB TYPE: 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
DESIGNED BY: JWP SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DRAWN BY: JWP SHEET 12 OF 30
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.

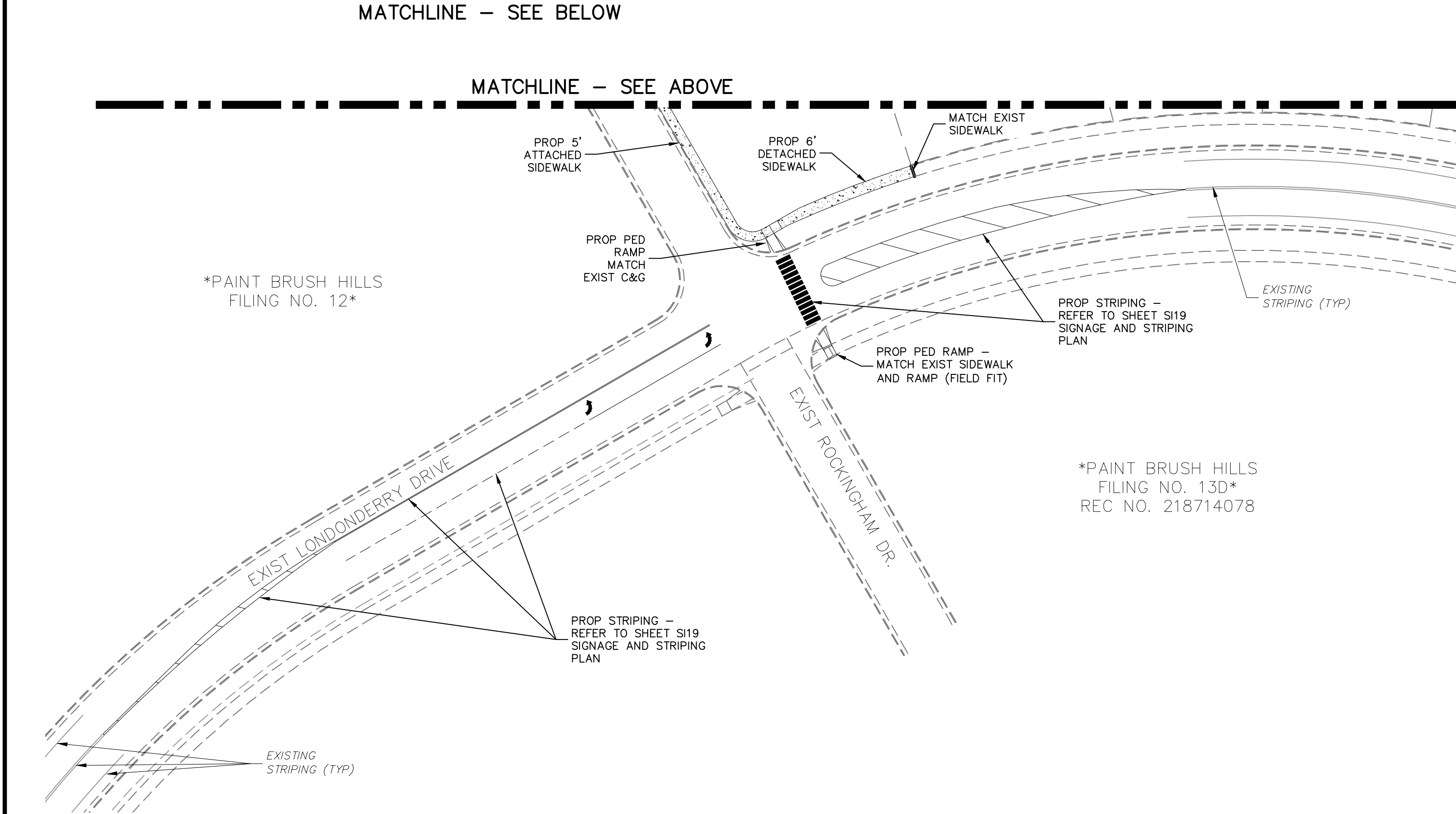
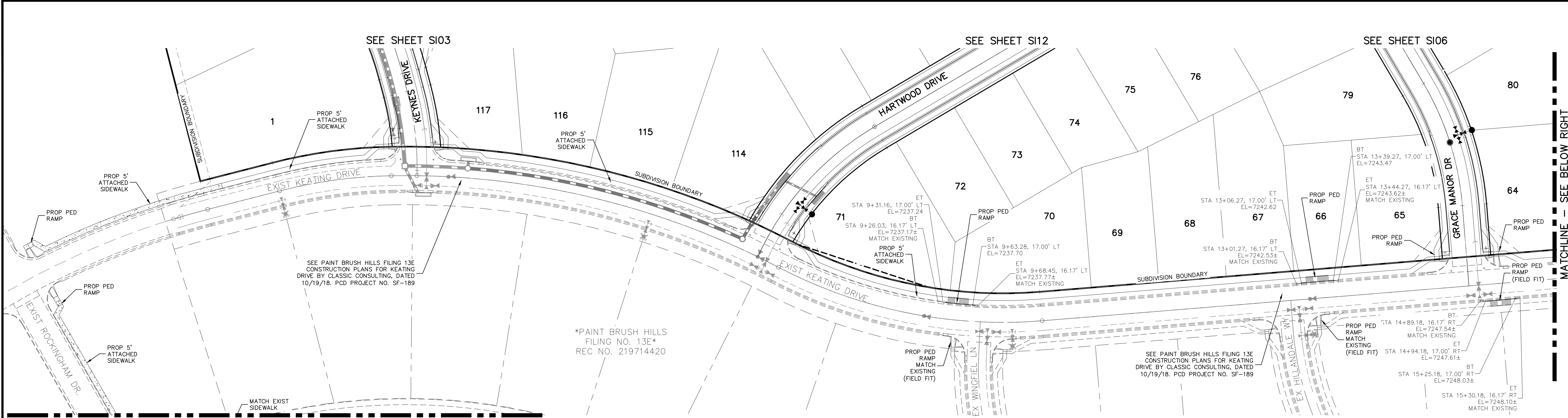
PROFESSIONAL ENGINEER
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
37160
9-22-21

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

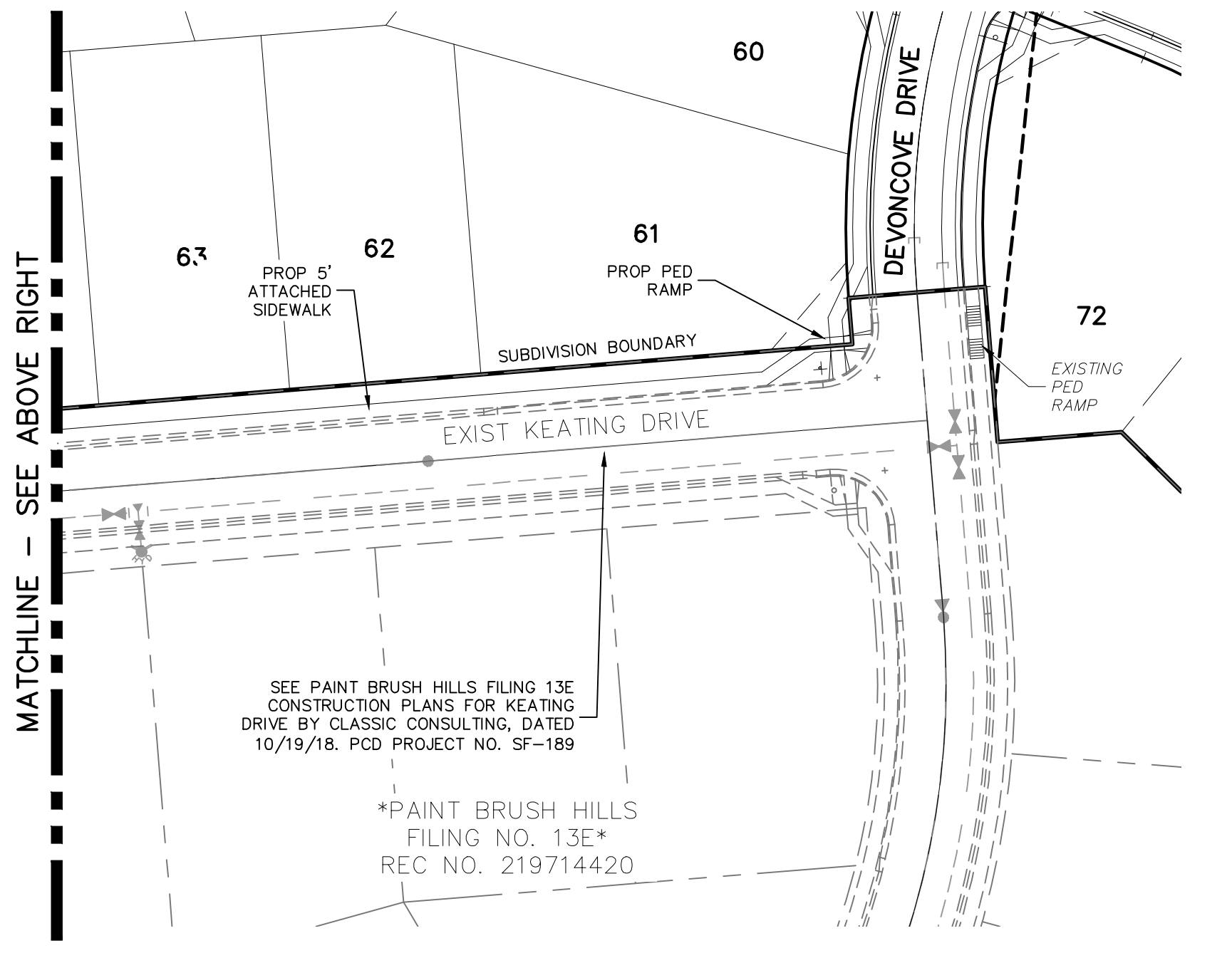
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EXISTING KEATING DRIVE

ABBREVIATION LEGEND

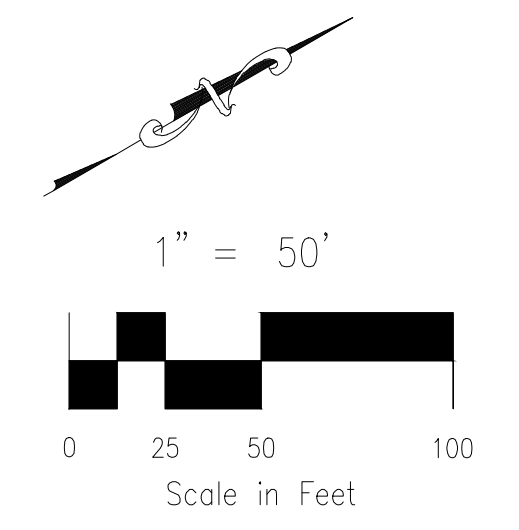
CL	CENTERLINE INTERSECTION	LT	LEFT FLOWLINE
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT FLOWLINE
BT	BEGIN TRANSITION	TBC	TOP BACK OF CURB
ET	END TRANSITION	XPAN	CROSSSPAN
PC	POINT OF CURVE	STD	STANDARD SHEET
PCC	POINT OF COMPOUND CURVE	SHT	PLAN AND PROFILE
PCR	POINT OF CURB RETURN	P&P	CURB AND GUTTER
PRC	POINT OF REVERSE CURVE	C&G	WEST
PT	POINT OF TANGENT	W	EAST
EL	ELEVATION	E	RIGHT OF WAY
CDS	CUL-DE-SAC	EOP	EDGE OF PAVEMENT
KN	KNUCKLE	WTR	WATER
LP	LOOP	SAN	SANITARY SEWER
N	NORTH	PROP	PROPOSED
S	SOUTH	COLL	COLLECTOR
KD	KEYNES DRIVE	LPT	LOW POINT
HD	HARTWOOD DRIVE	RES	RESIDENTIAL
GMD	GRACE MANOR DRIVE		
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 S14, S16 & S17 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.



NO.	DATE	BY	DESCRIPTION

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 88 AGG. BASE THICKNESS: _____
CURB TYPE C 88 Class 6 _____
ROW WIDTH 50' EOP-EOP 30' Class 5 _____
STREET TYPE RESIDENTIAL HVEM Class 2 _____
DESIGN SPEED 25 MPH

PAINT BRUSH HILLS FILING NO. 14
STREET IMPROVEMENT PLANS
PROJECT NO. 10-014 DATE: 04/06/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: GW
SHEET 13 OF 30 S13

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

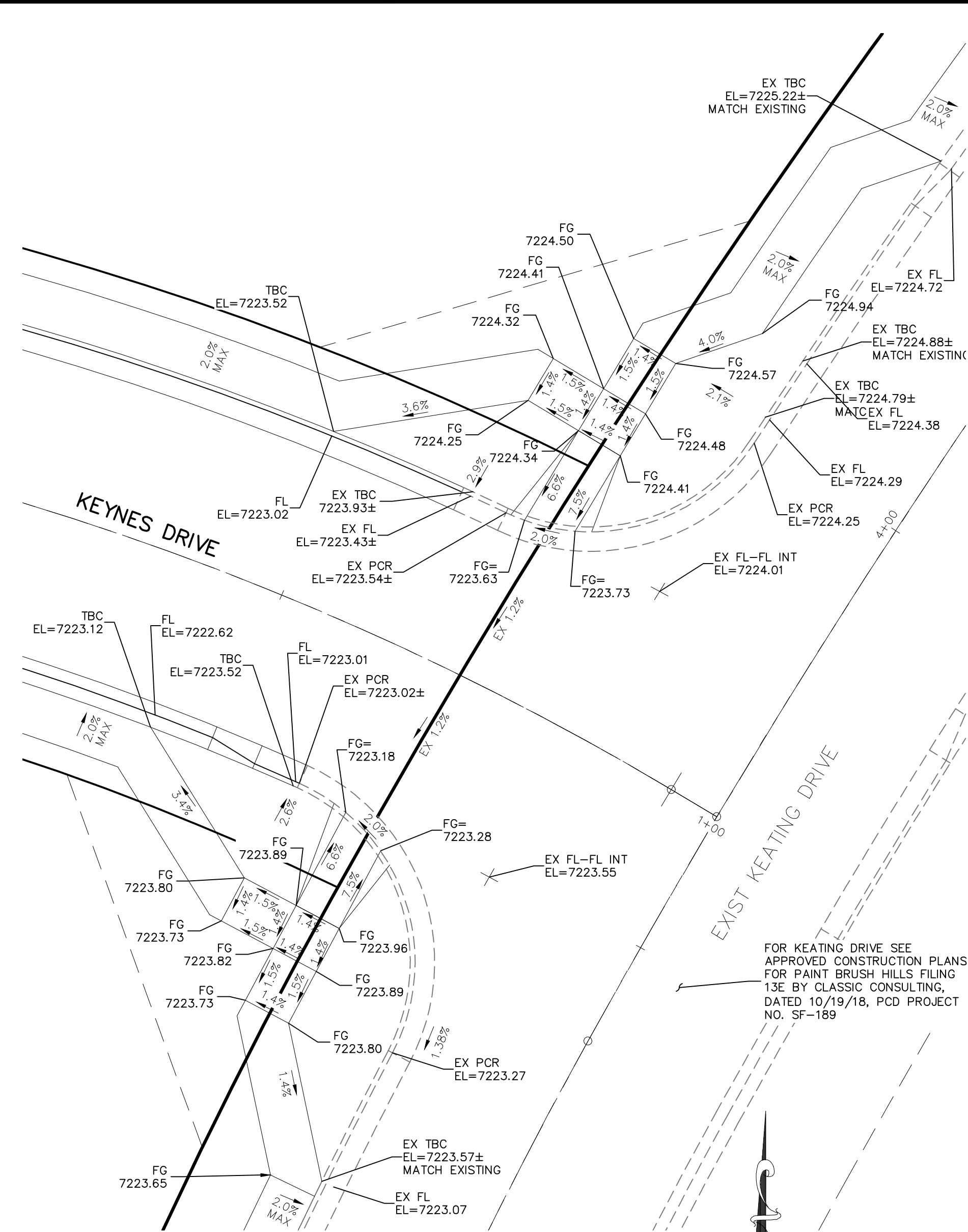
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160
Professional Seal: 31160, 5-6-21

APPROVED BY: _____ DATE: _____
EPC 9/21/2021

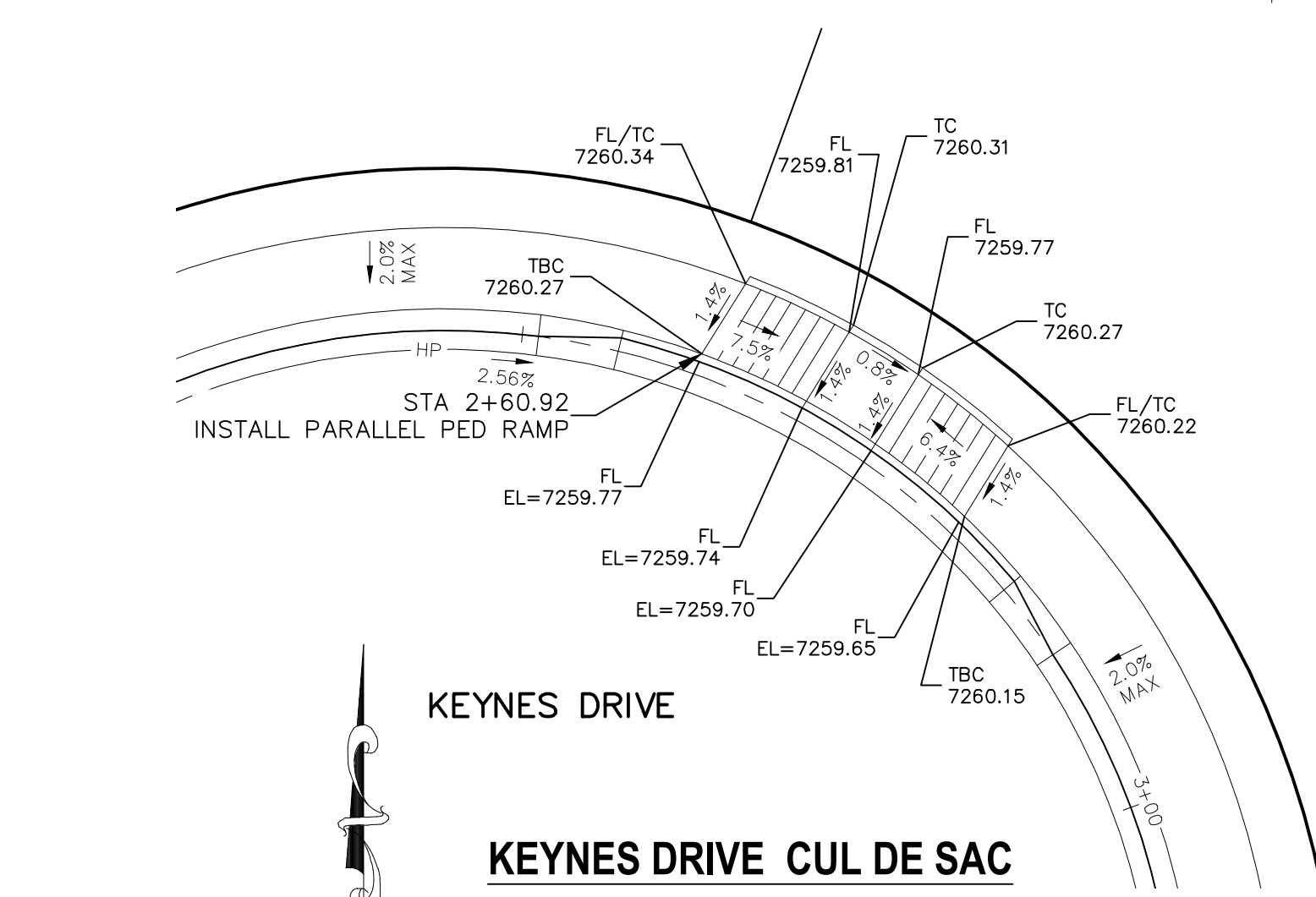
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CAUTION

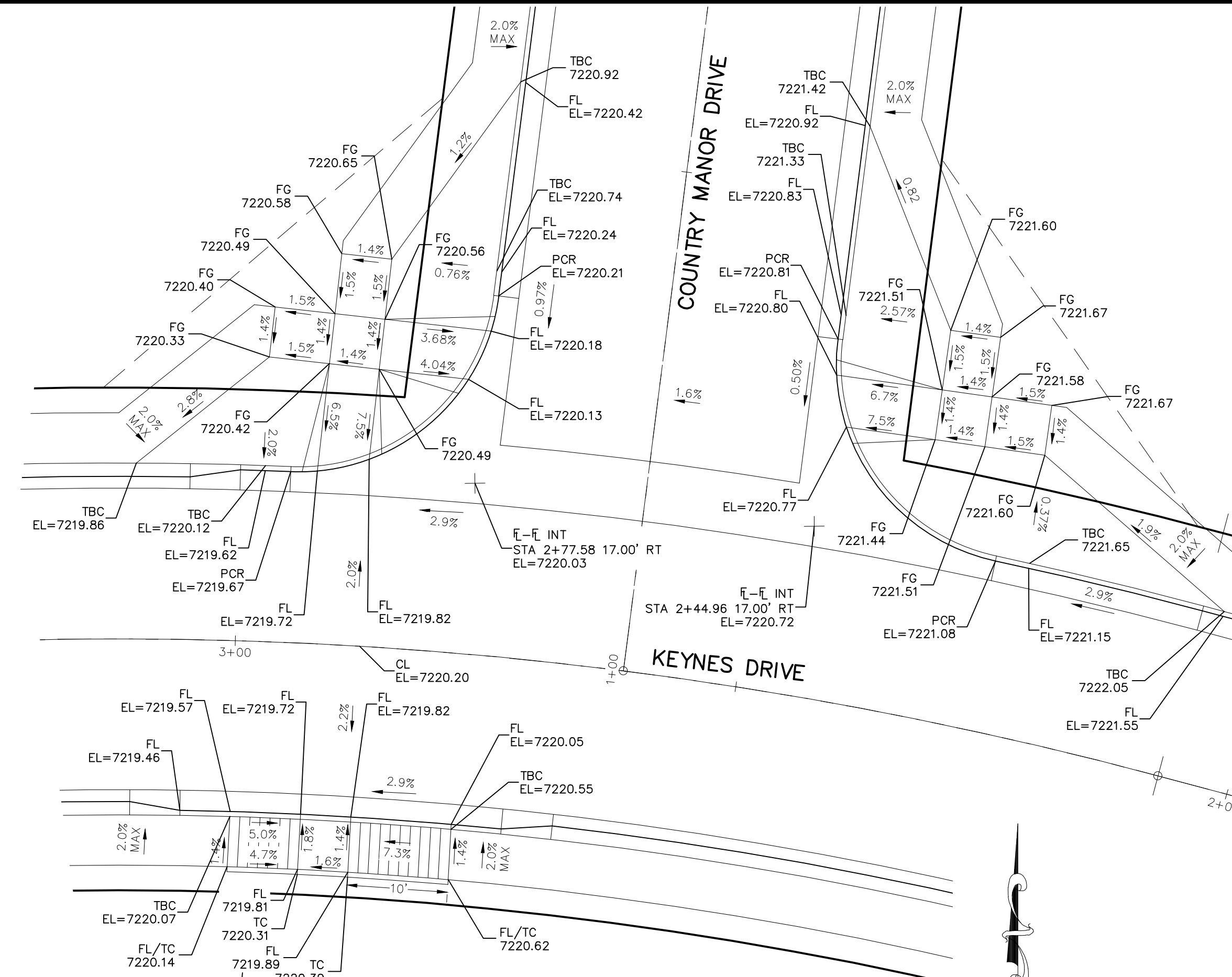
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KEYNES DRIVE & EX. KEATING DRIVE



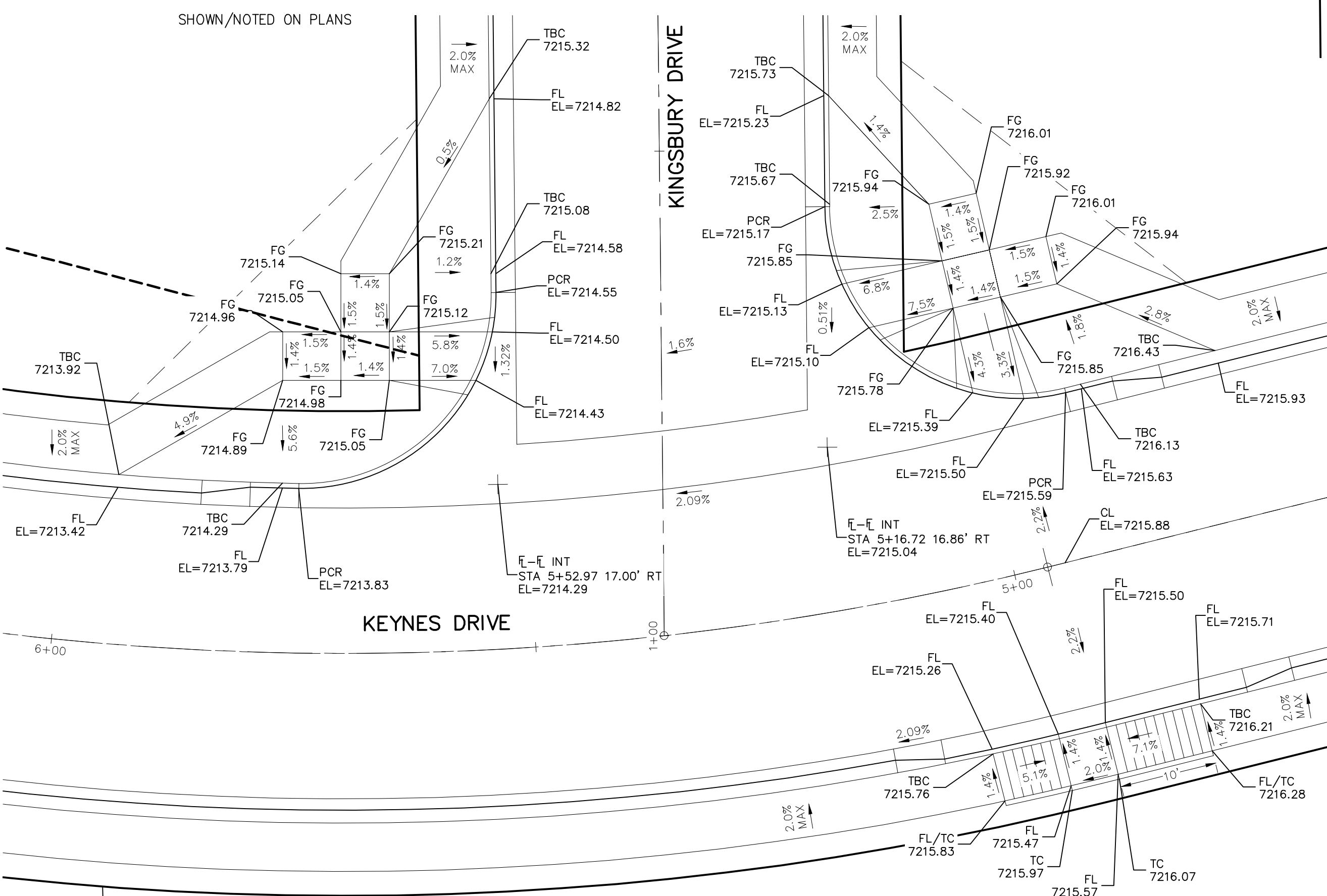
KEYNES DRIVE CUL DE SAC



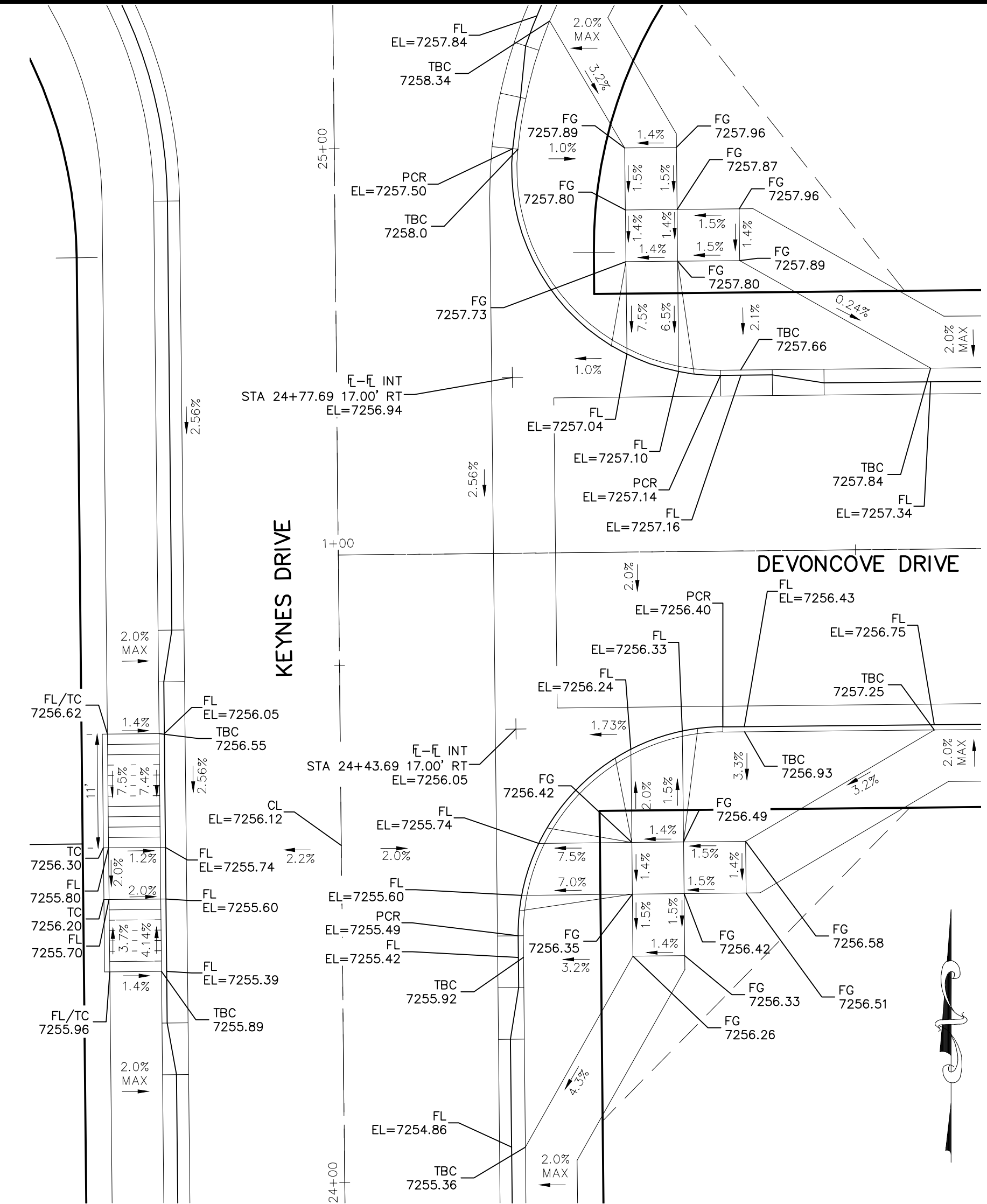
KEYNES DRIVE & COUNTRY MANOR DRIVE

NOTES:

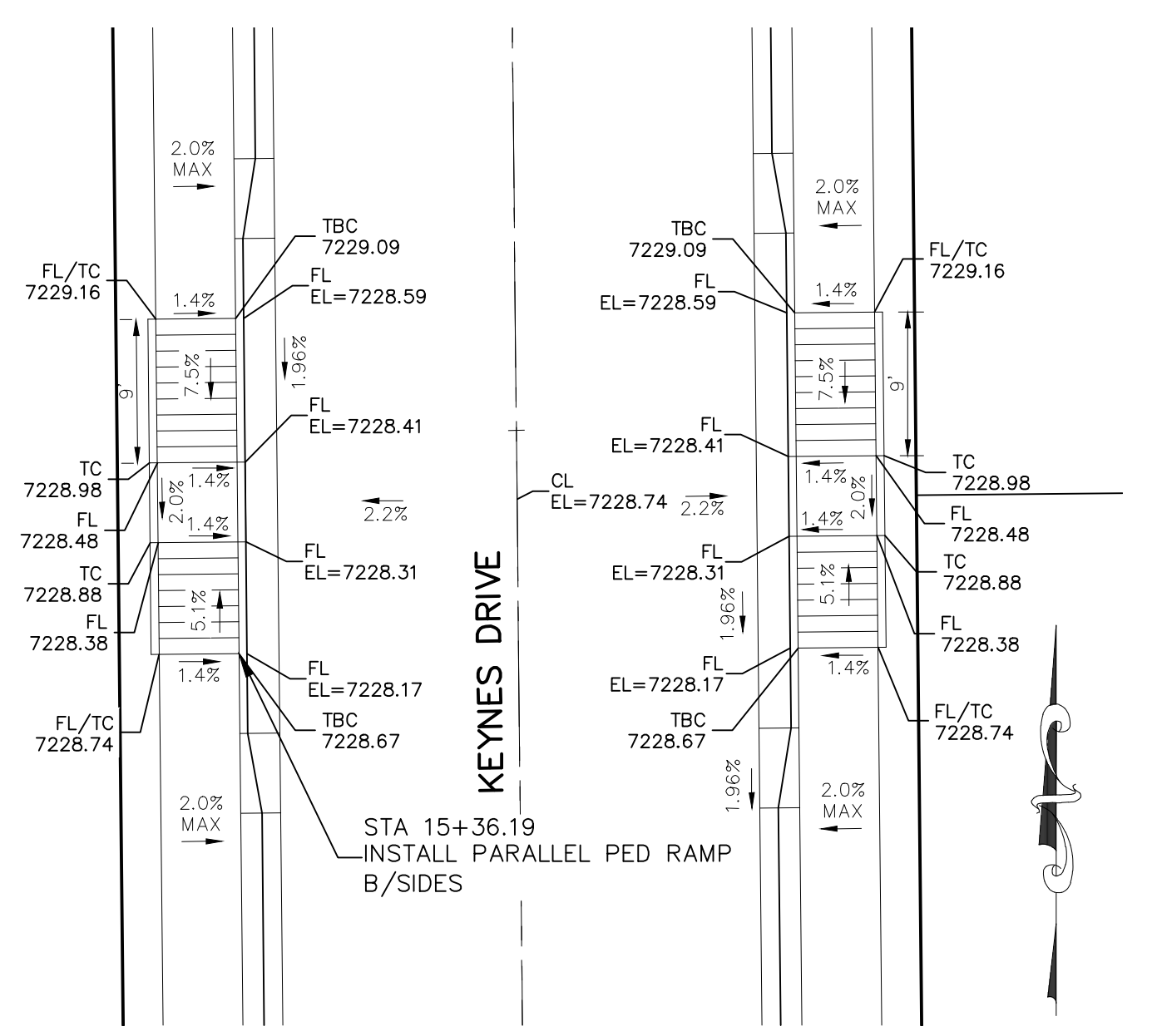
- 1. ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS



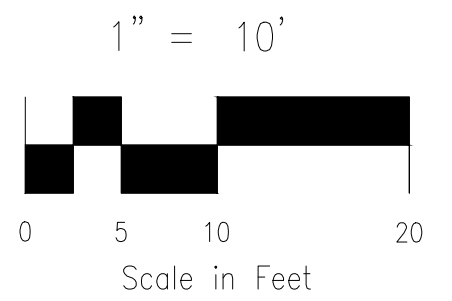
KEYNES DRIVE & KINGSBURY DRIVE



KEYNES DRIVE & DEVONCOVE DRIVE



KEYNES DRIVE STA 15+36.19



EPC 9/21/2021

STATEMENT: THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN...

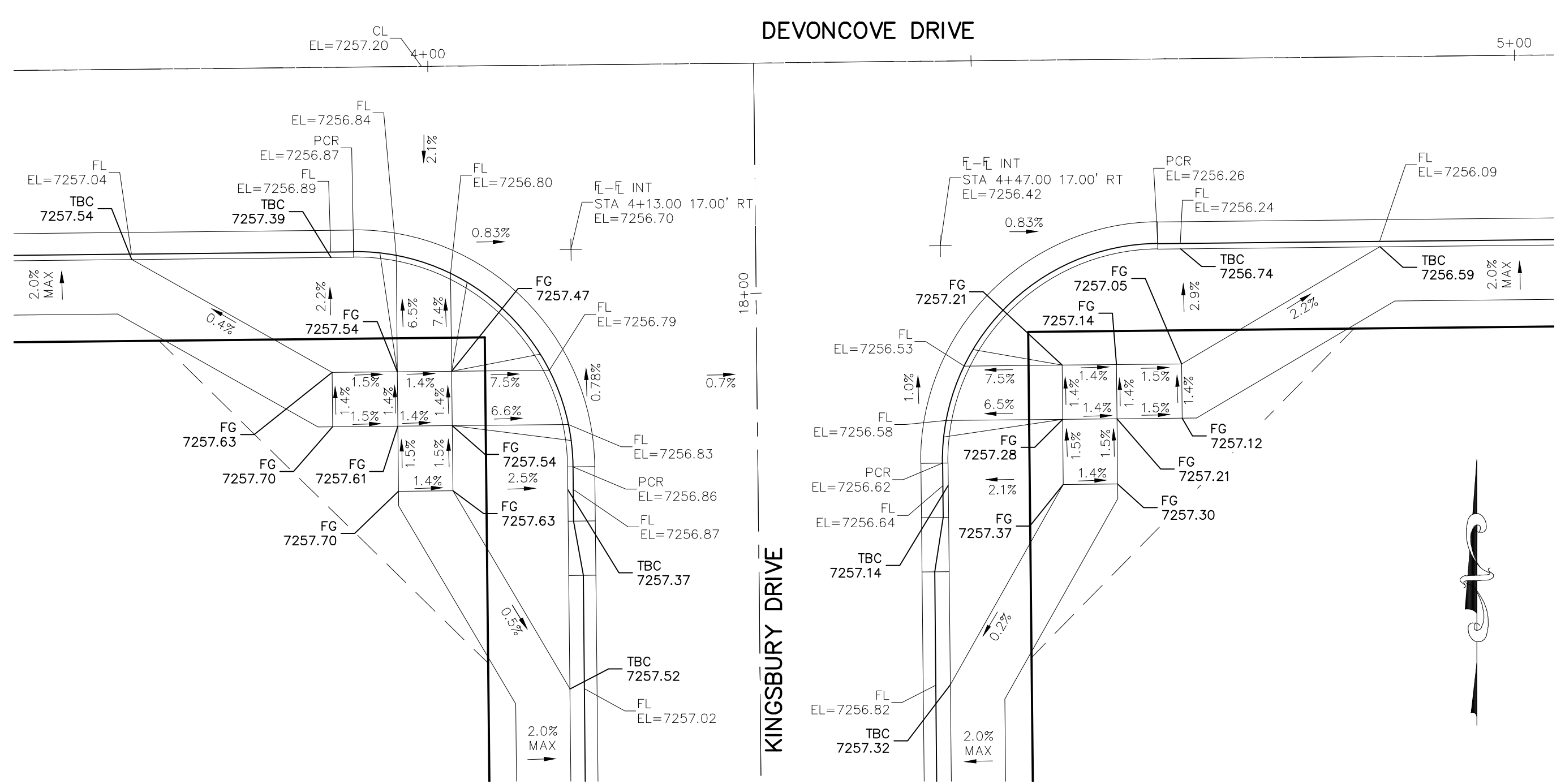
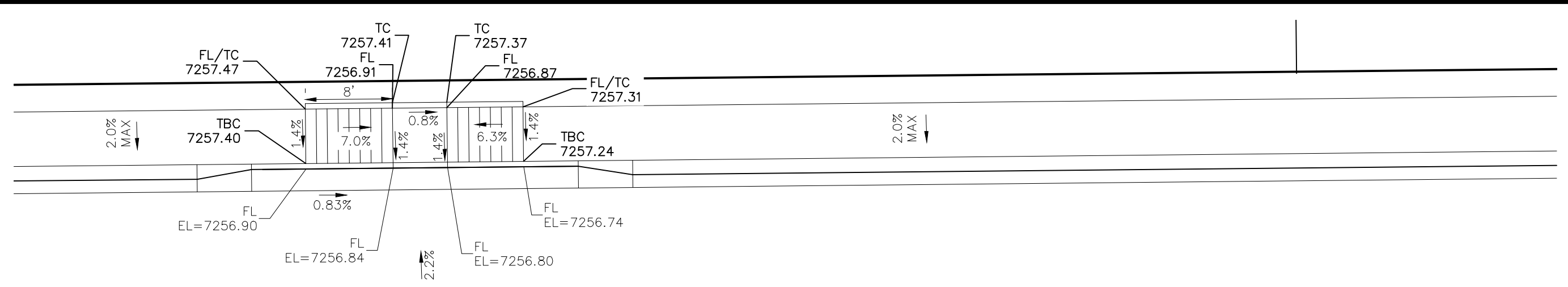


FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

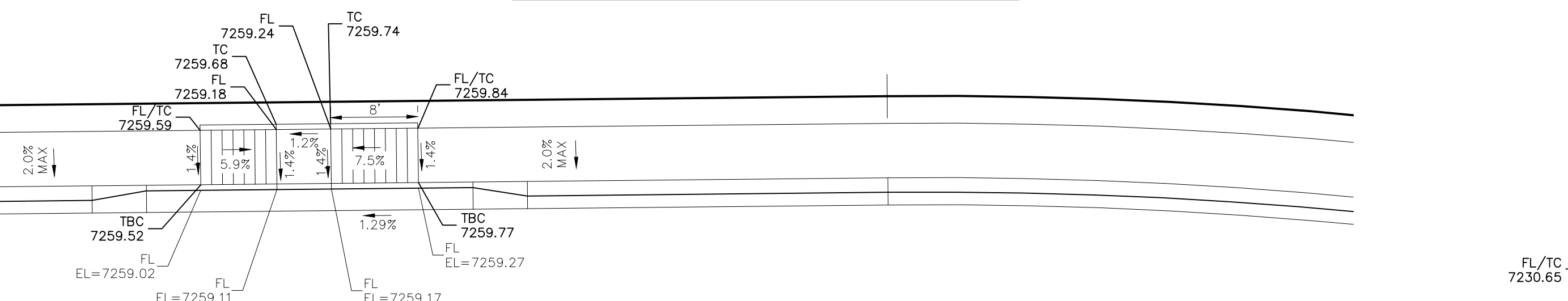
STREET DESIGN: REVIEW: TRAFFIC ENGINEERING: CURB & GUTTER: DRAINAGE DESIGN: FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.

DESIGN DATA: SIDEWALKS: WIDTH 5' ASPHALT THICKNESS: LOCATION: Attached AC Surface Curb Type: 5' Class 6 AGG. BASE THICKNESS: ROW WIDTH 50' EOP-EOP 30' Class 5 Class 2 STREET TYPE RESIDENTIAL HVLEM Class 2 DESIGN SPEED 25 MPH

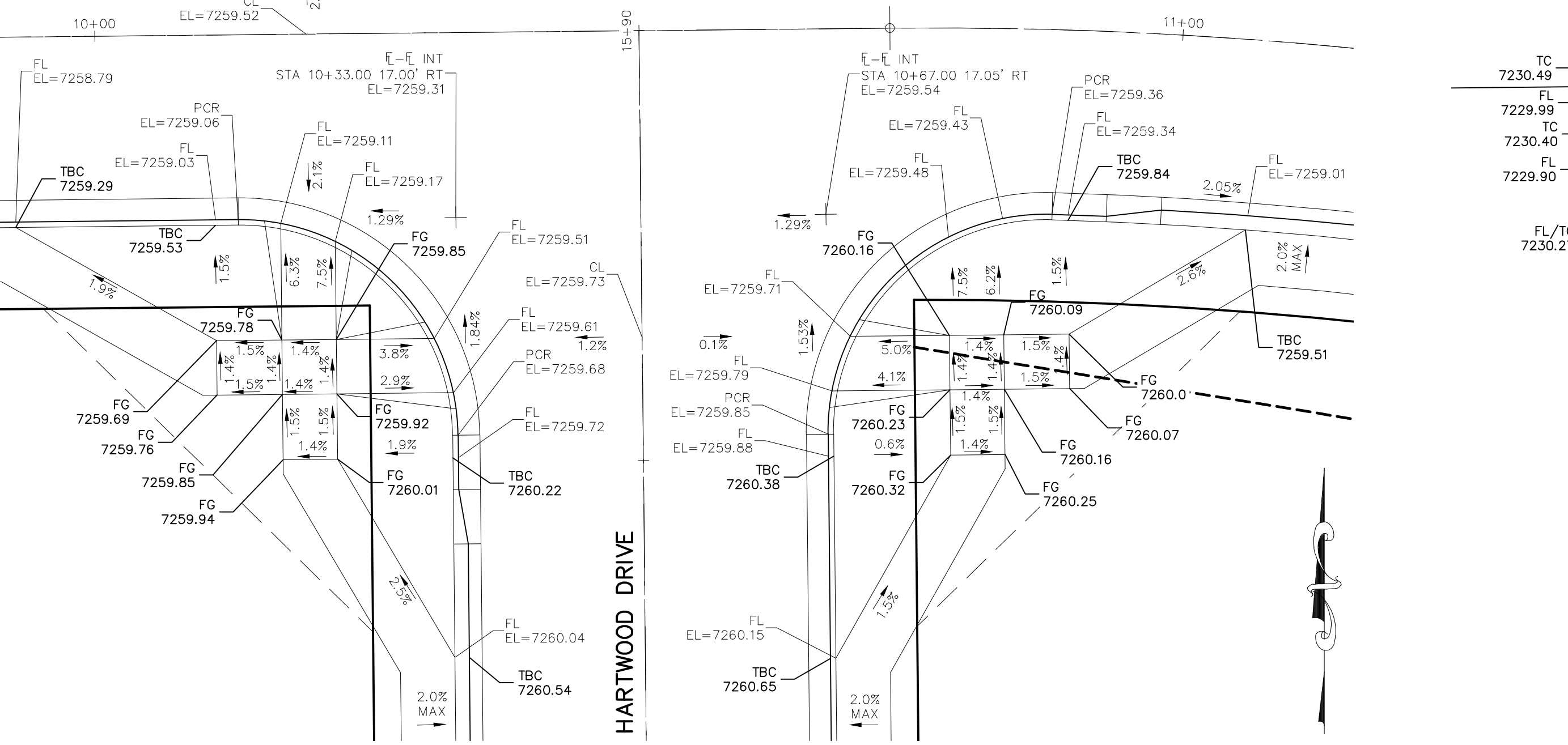
PAINT BRUSH HILLS FILING NO. 14 INTERSECTION DETAILS PROJECT NO. 10-014 DATE: 04/06/2021 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5' DESIGNED BY: JWP DRAWN BY: JWP CHECKED BY: GW SHEET 14 OF 30 S114 212 N WABATCH AVE., STE 303 COLORADO SPRINGS, CO 80903 PHONE: 719.555.5485 CIVIL CONSULTANTS, INC. FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC. ARCHIL A. SANCHEZ, COLORADO P.E. NO. 371160



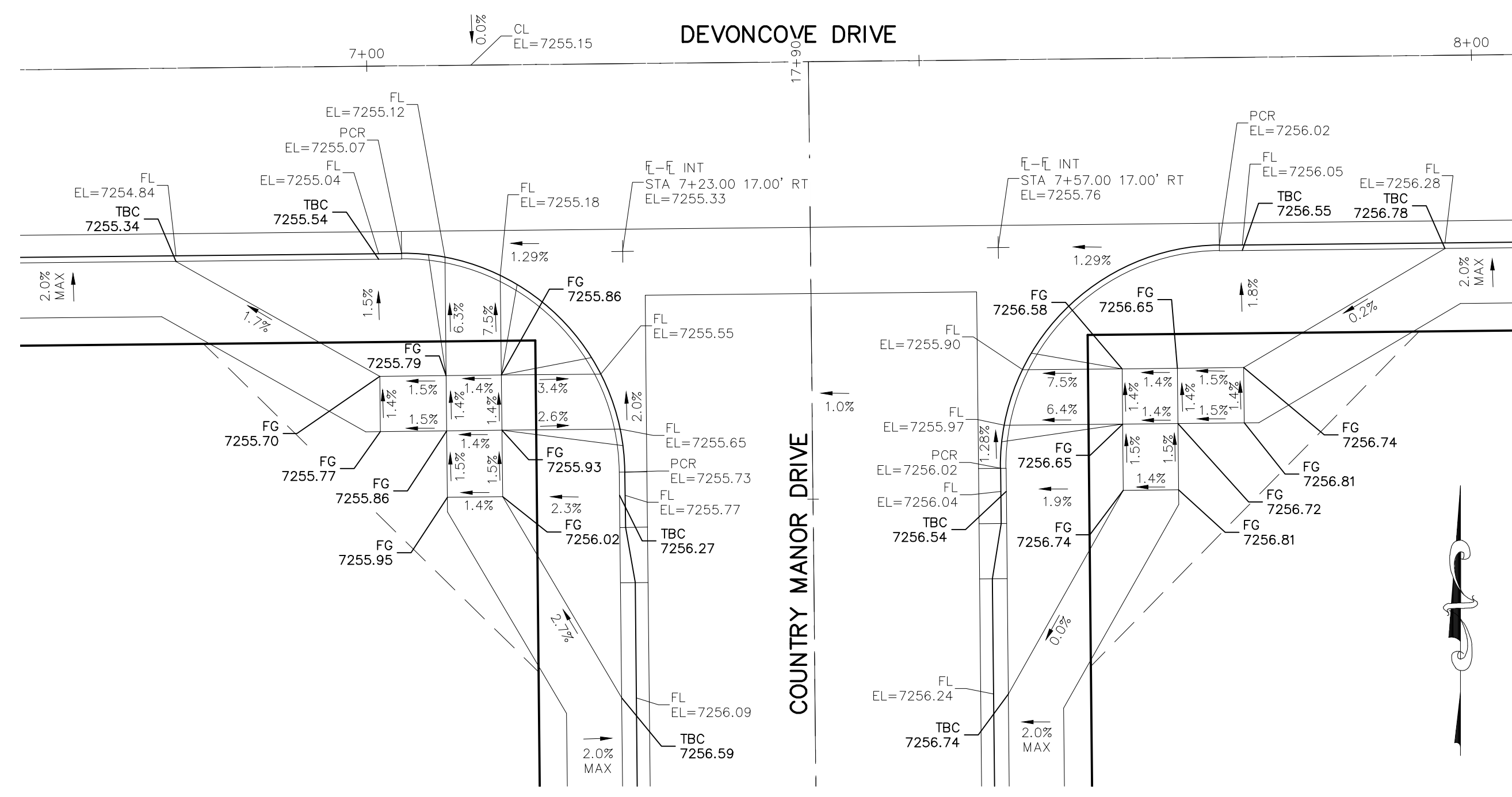
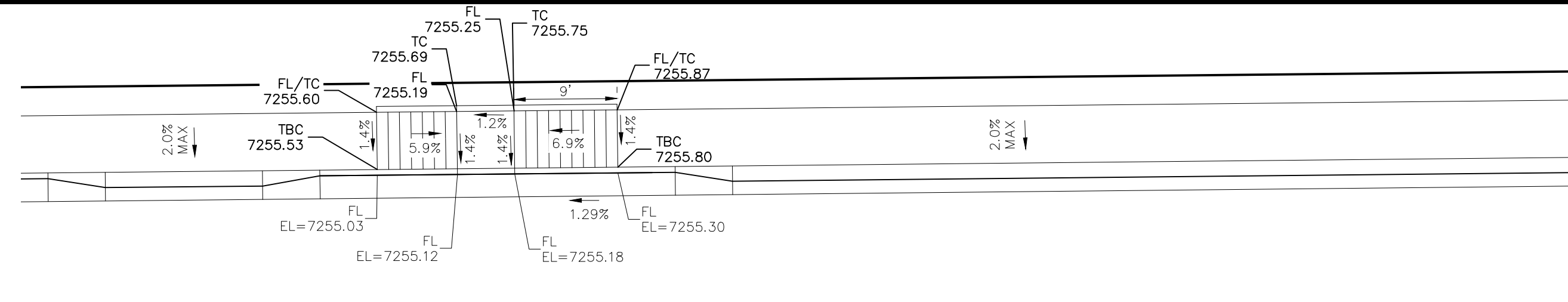
DEVONCOVE DRIVE & KINGSBURY DRIVE



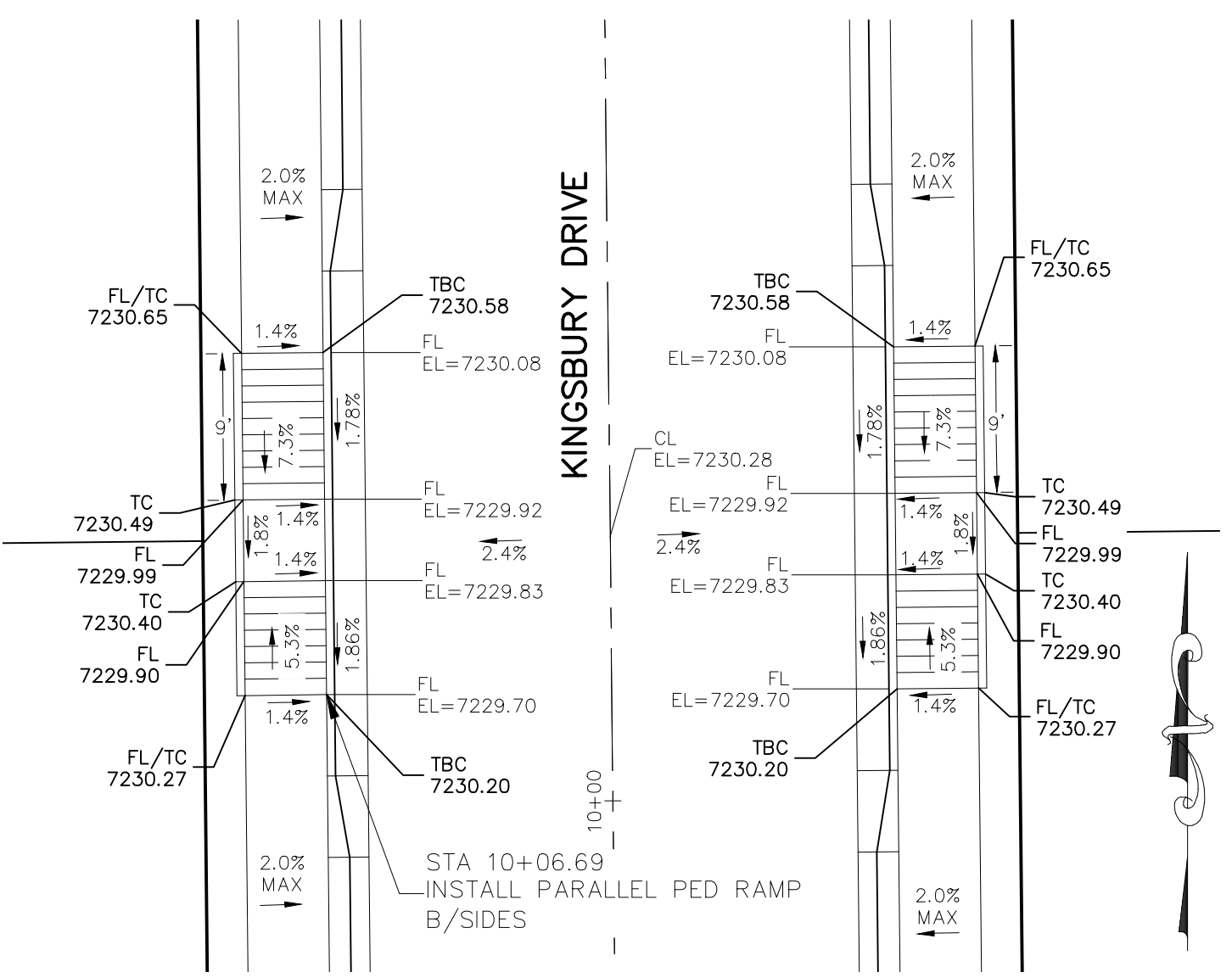
DEVONCOVE DRIVE



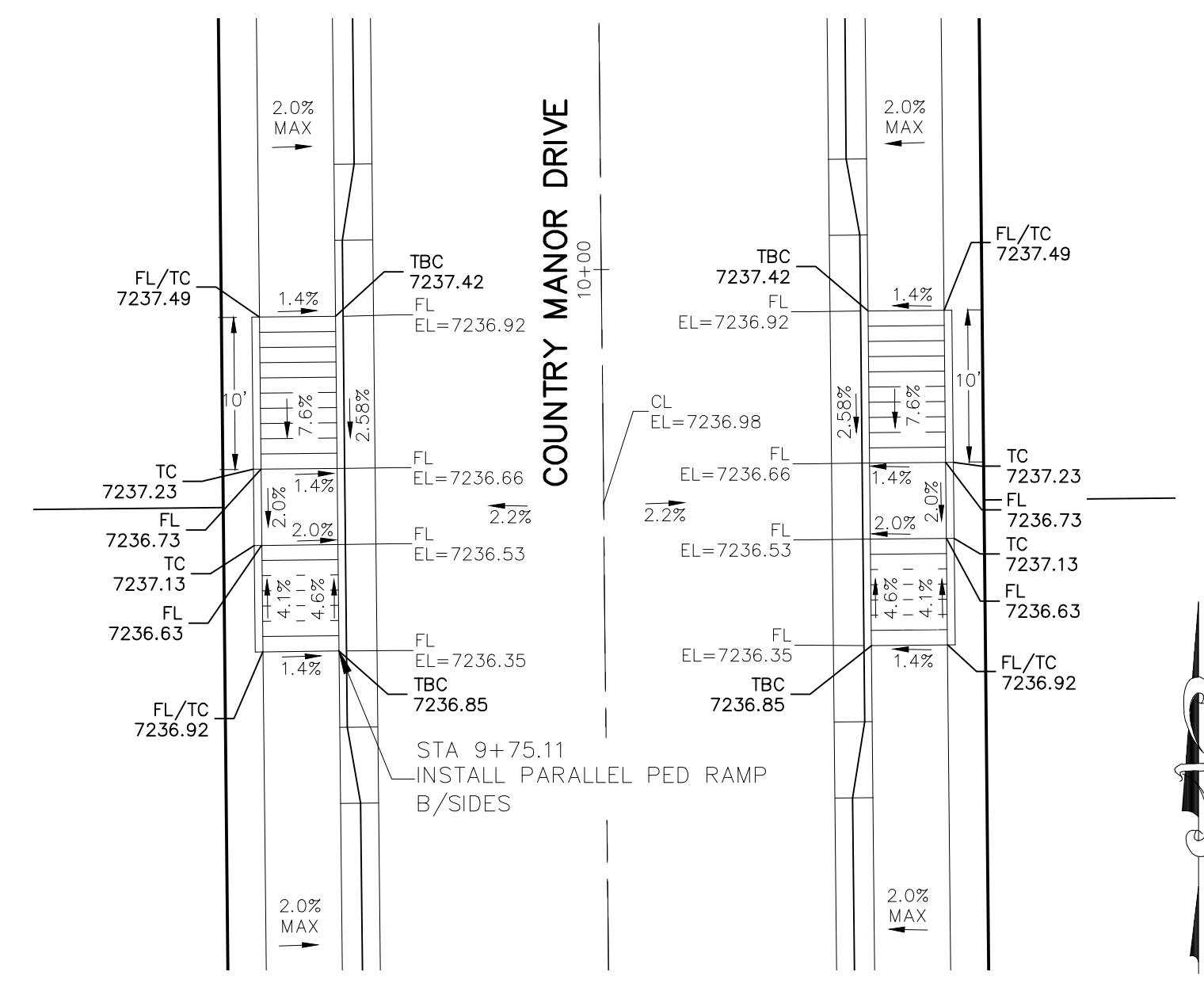
DEVONCOVE DRIVE & HARTWOOD DRIVE



DEVONCOVE DRIVE & COUNTRY MANOR DRIVE



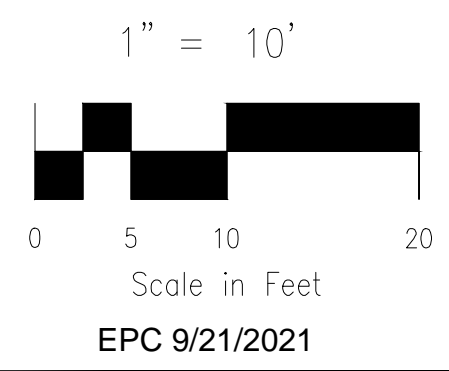
**KINGSBURY DRIVE
STA 10+06.69**



**COUNTRY MANOR DRIVE
STA 9+75.11**

NOTES:

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



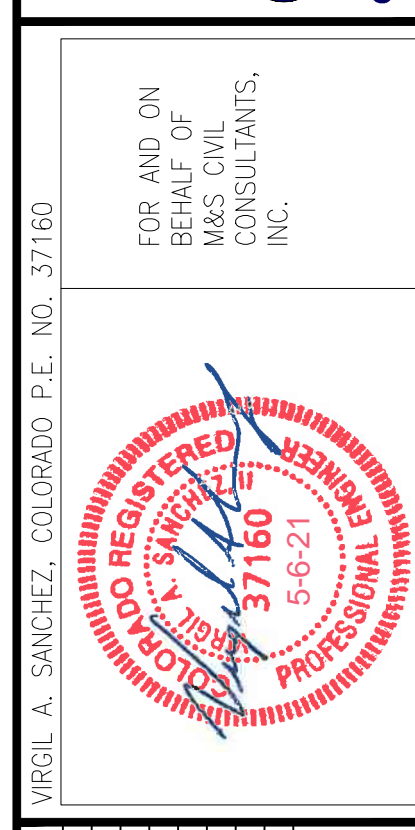
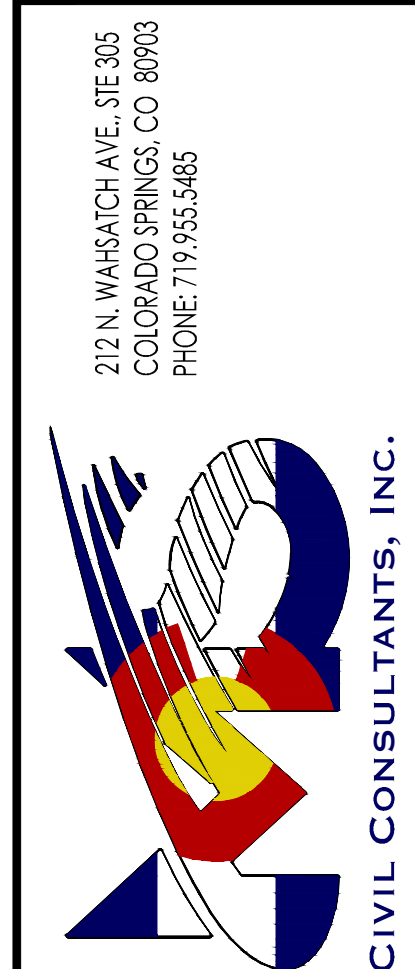
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FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

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 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

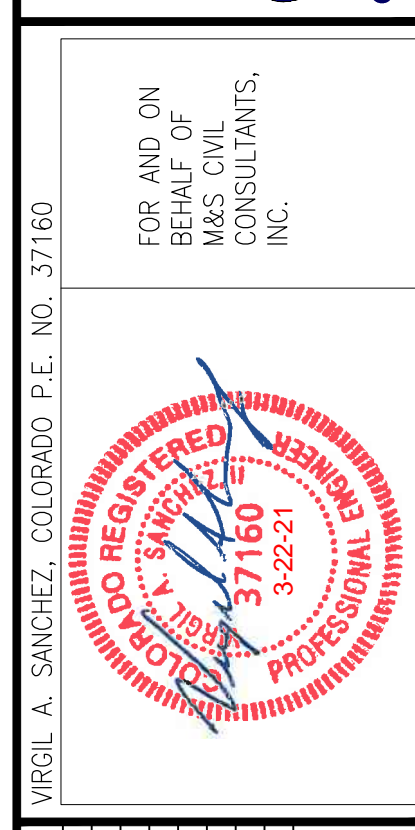
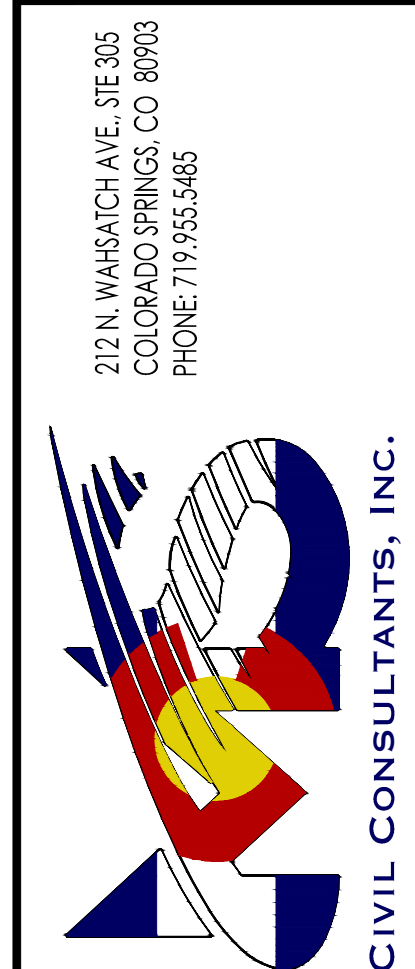
PAINT BRUSH HILLS FILING NO. 14
INTERSECTION DETAILS
PROJECT NO. 10-014
DATE: 04/06/2021
SCALE: _____
DESIGNED BY: JWP
DRAWN BY: JWP
CHECKED BY: GW
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'
SHEET 15 OF 30
S115



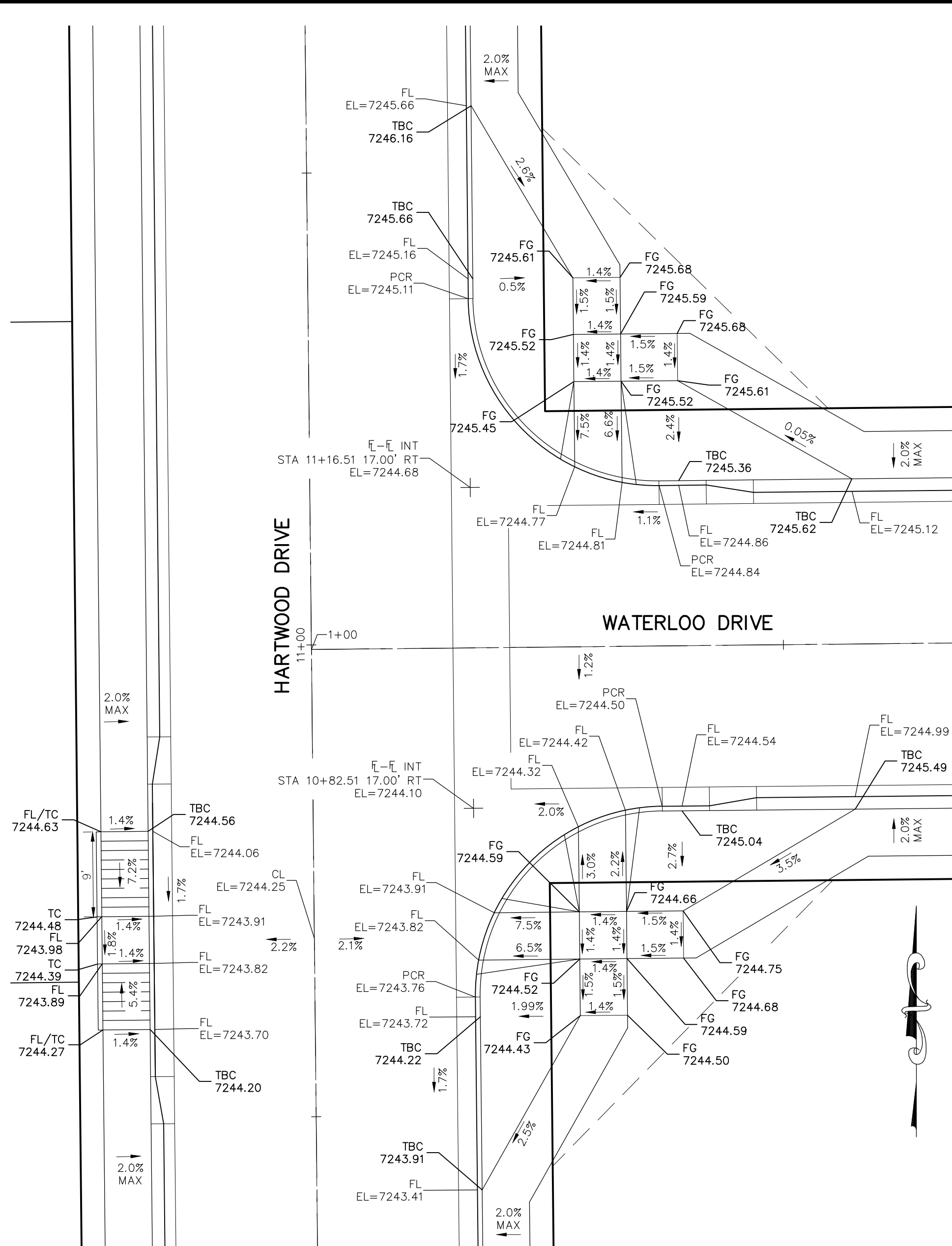
NO.	DATE	BY	DESCRIPTION

APPROVED BY: _____ DATE: _____
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

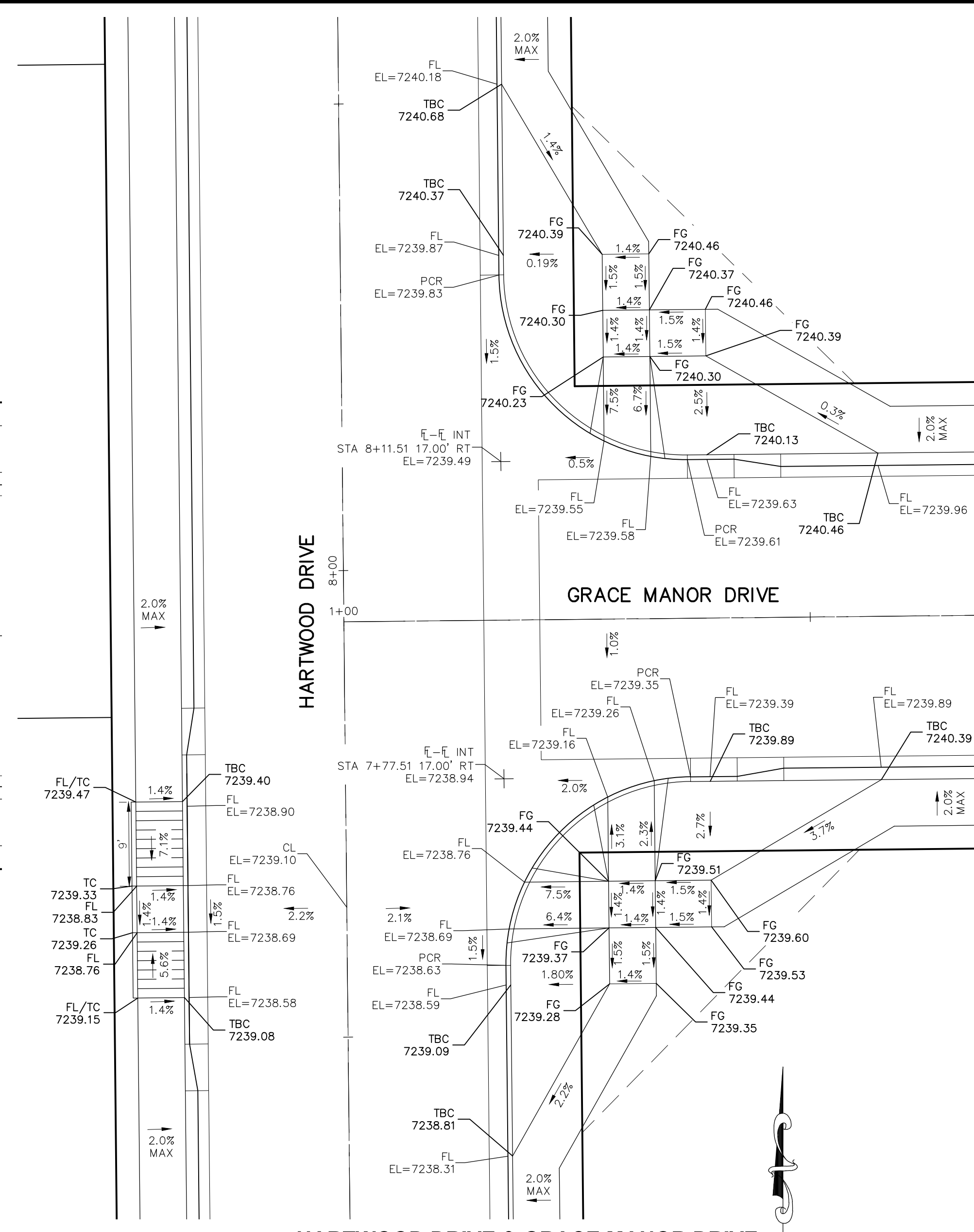
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CAUTION



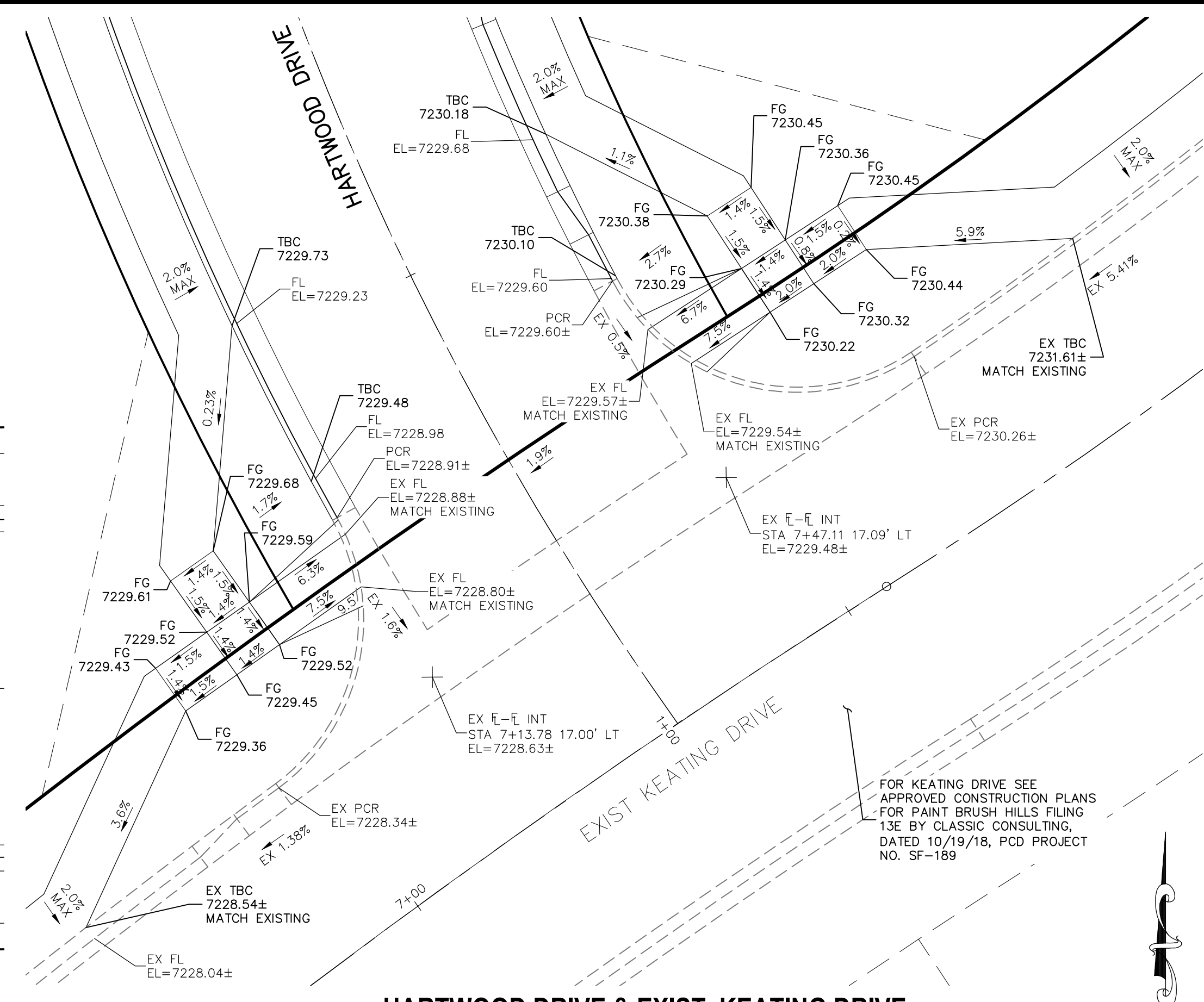
REVISIONS:	NO.	DATE:	DESCRIPTION:



HARTWOOD DRIVE & WATERLOO DRIVE



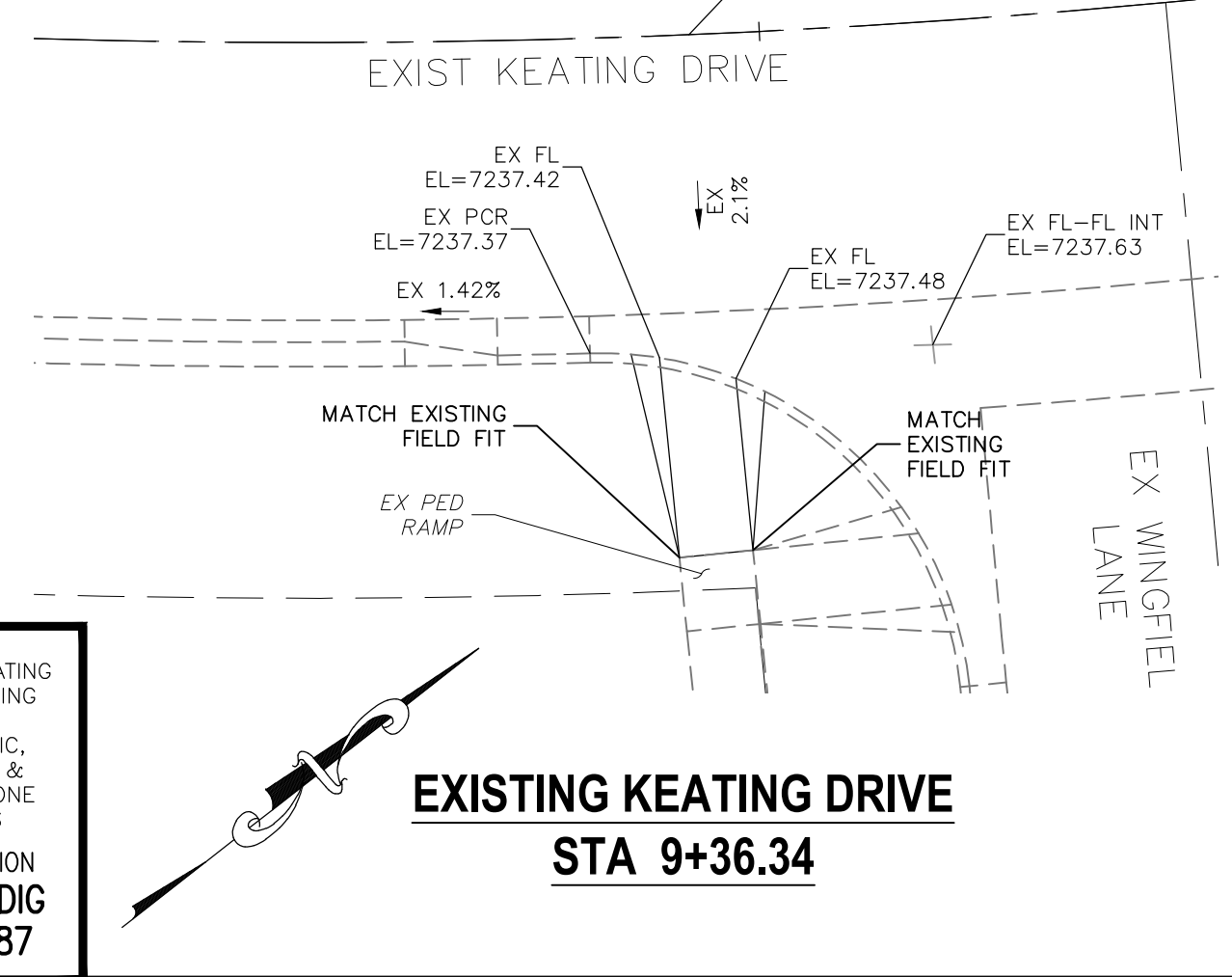
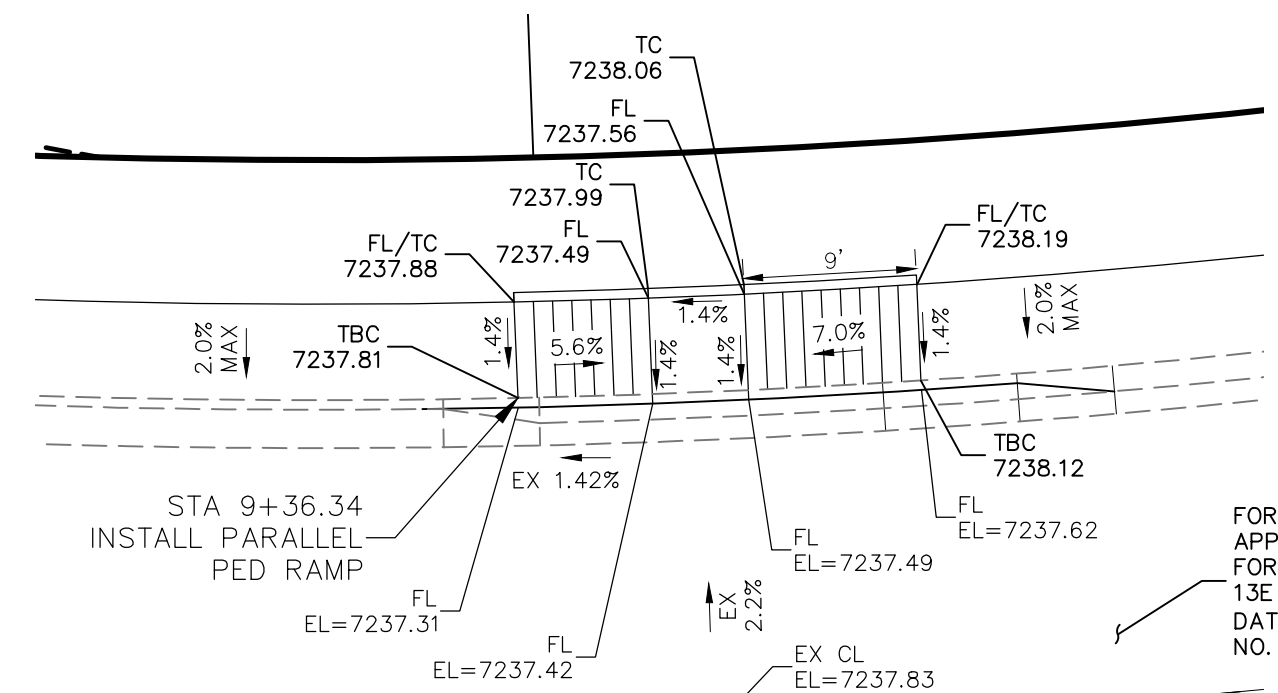
HARTWOOD DRIVE & GRACE MANOR DRIVE



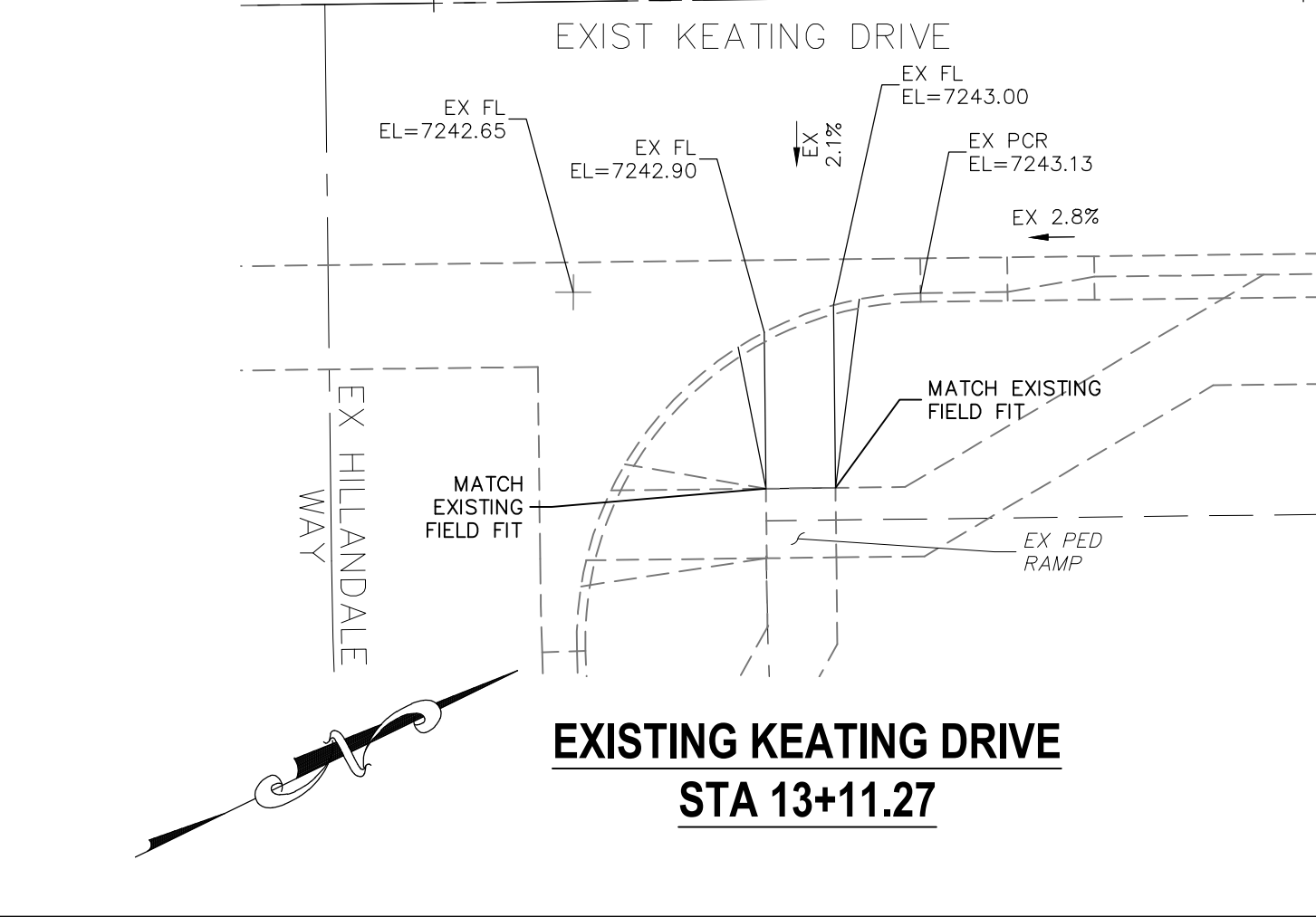
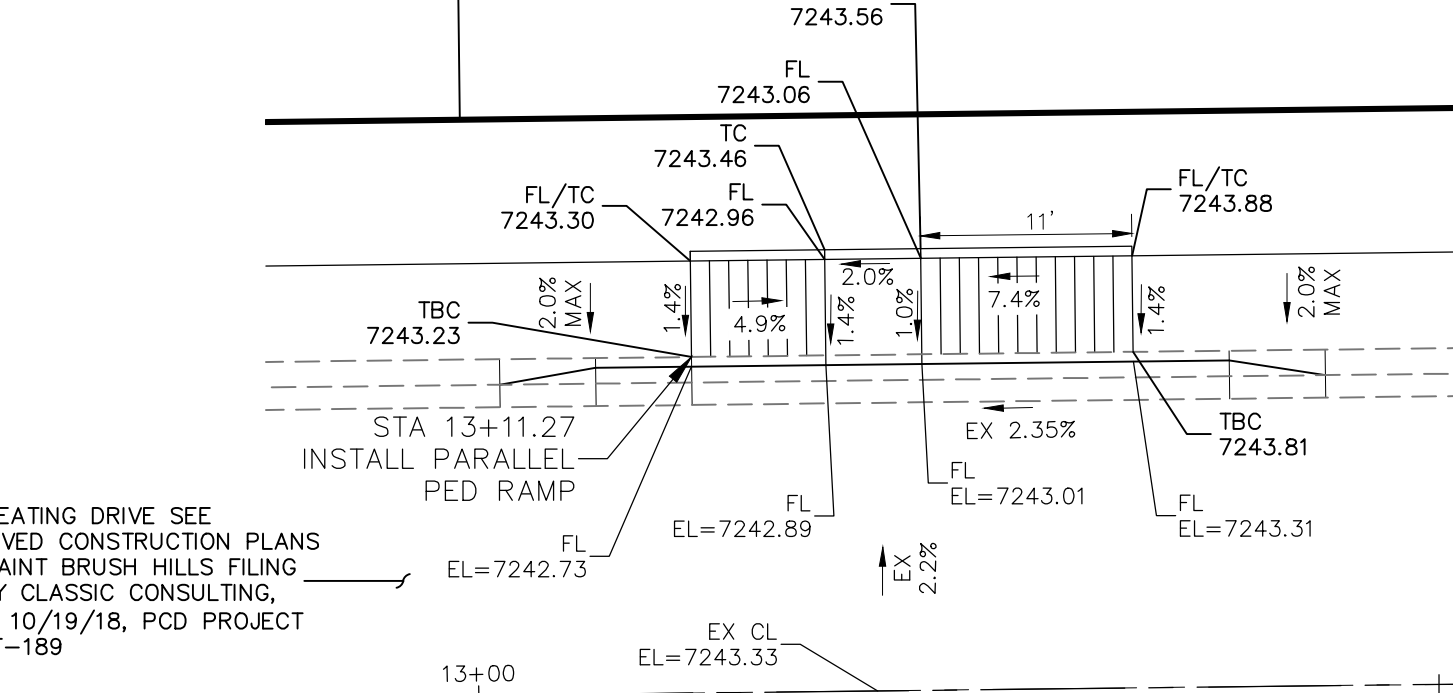
HARTWOOD DRIVE & EXIST KEATING DRIVE

NOTES:

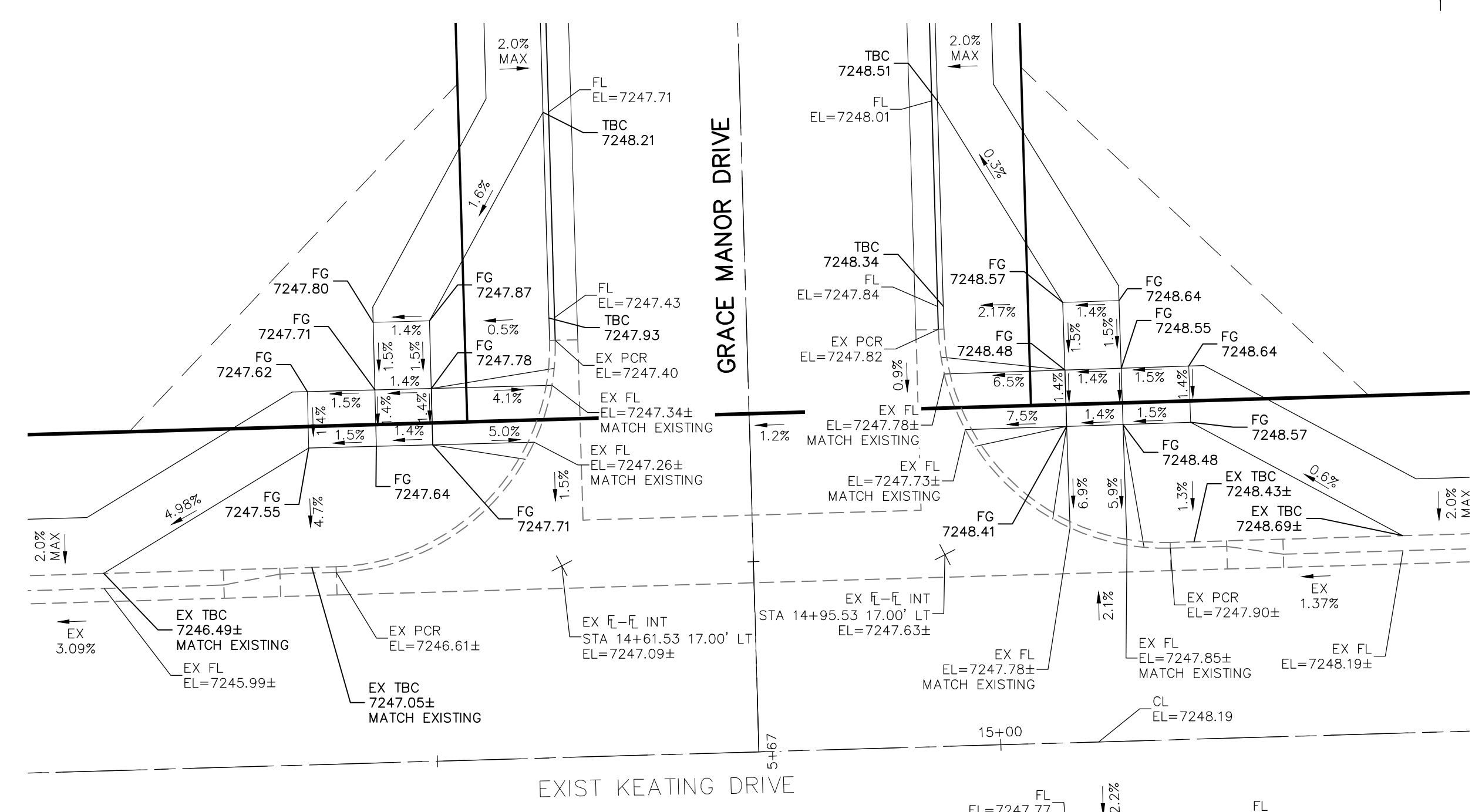
- ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE SHOWN/NOTED ON PLANS



**EXISTING KEATING DRIVE
STA 9+36.34**

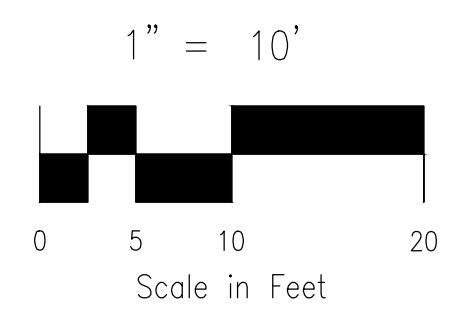


**EXISTING KEATING DRIVE
STA 13+11.27**



GRACE MANOR DRIVE & EXIST KEATING DRIVE

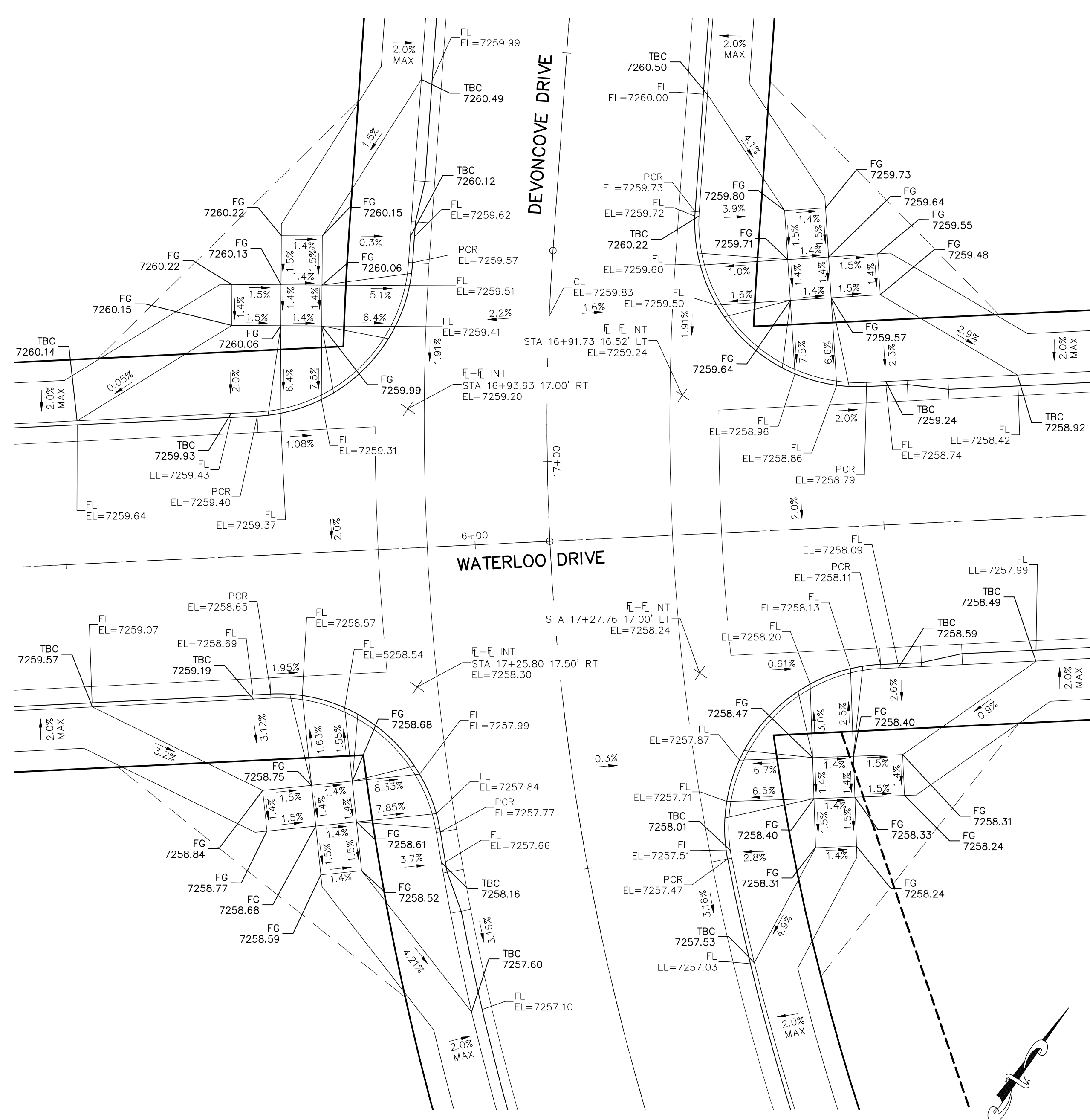
EPC 9/21/2021



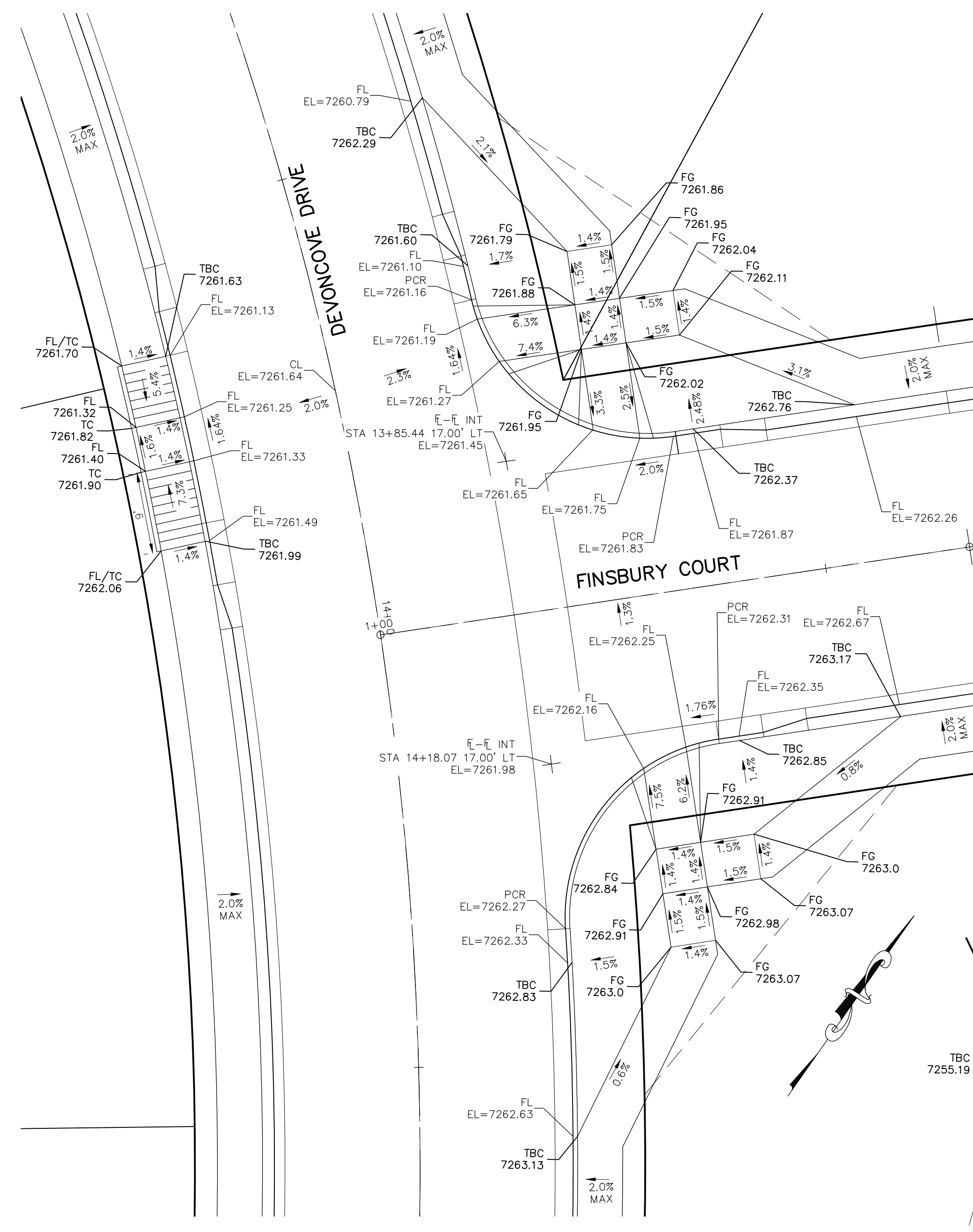
STREET DESIGN:	
TRAFFIC ENGINEERING:	DATE:
CURB & GUTTER:	DATE:
FINAL REVIEW:	DATE:
DRAINAGE DESIGN:	
DRAINAGE REVIEW:	DATE:
FILED IN ACCORDANCE WITH SECTION 7-7-906 OF COLORADO SPRINGS CODE 2001, AS AMENDED.	

DESIGN DATA:	
SIDEWALKS: WIDTH 5'	ASPHALT THICKNESS:
LOCATION: Attached <input 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	

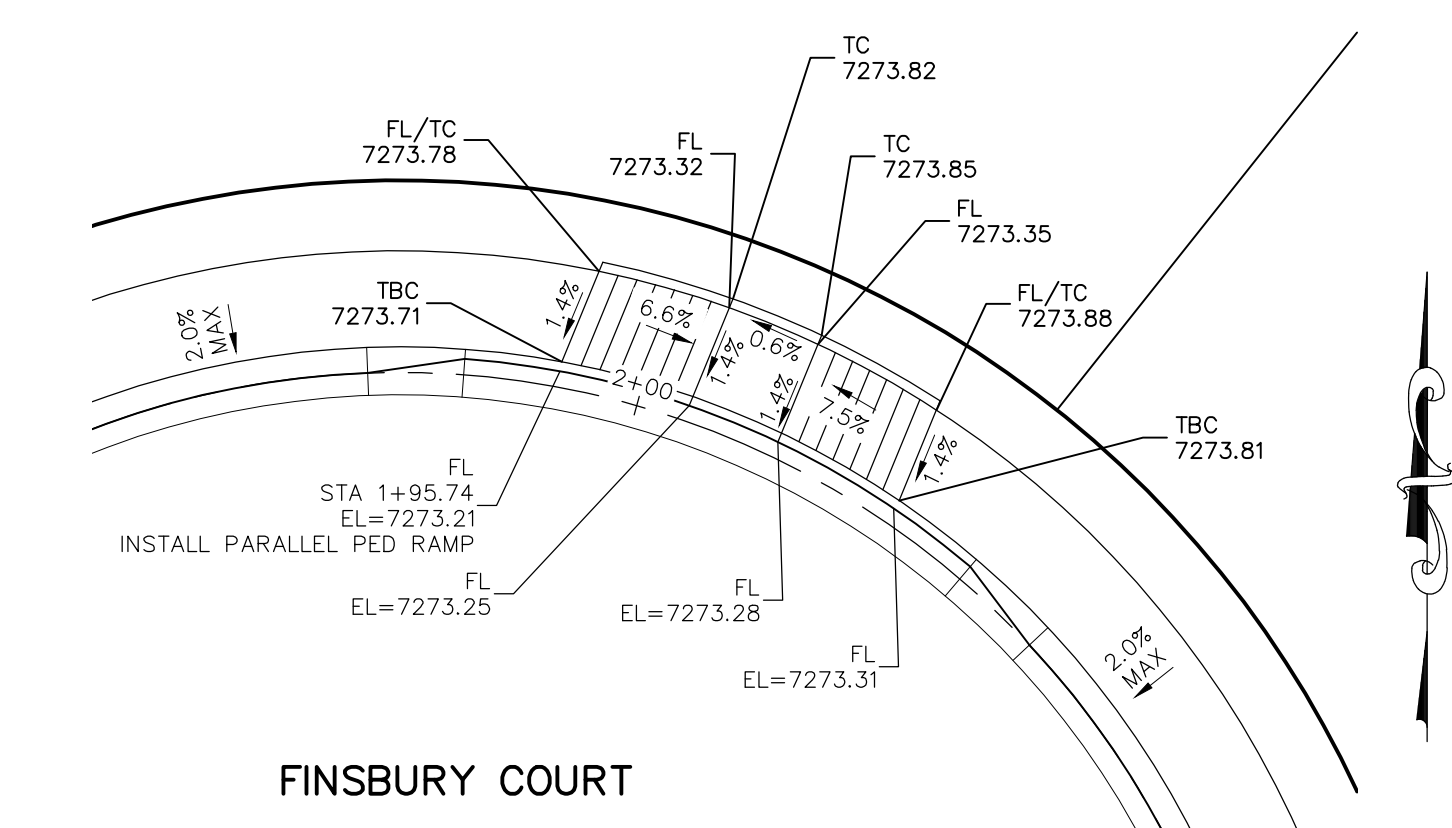
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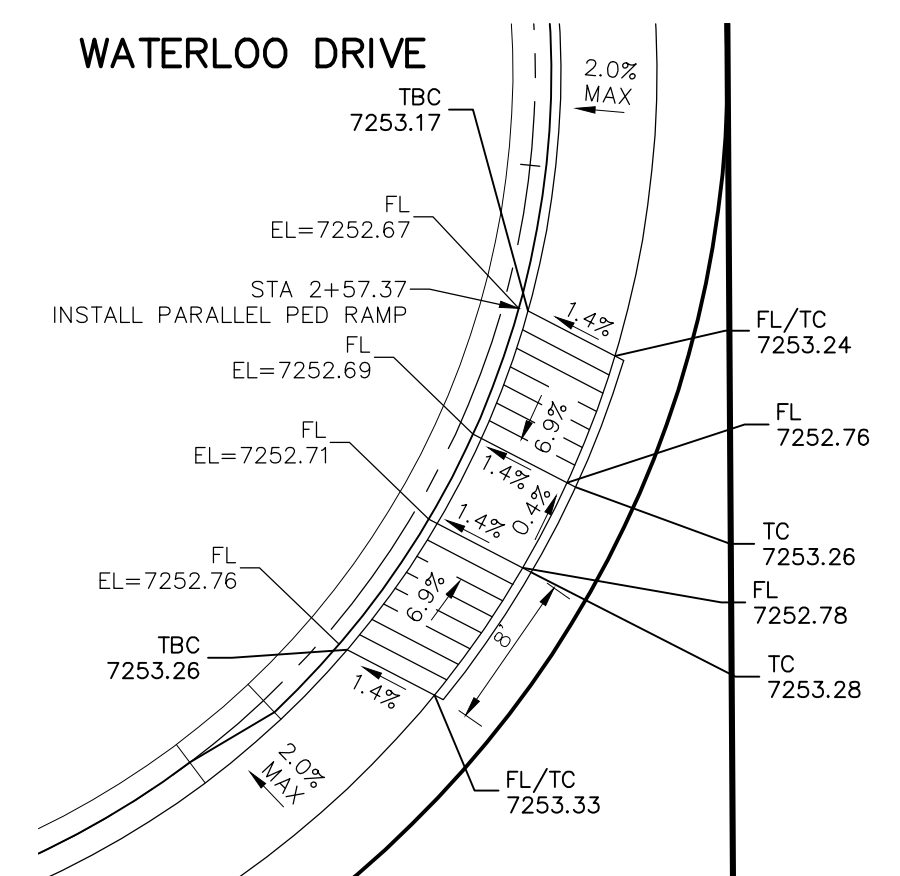
DEVONCOVE DRIVE & WATERLOO DRIVE



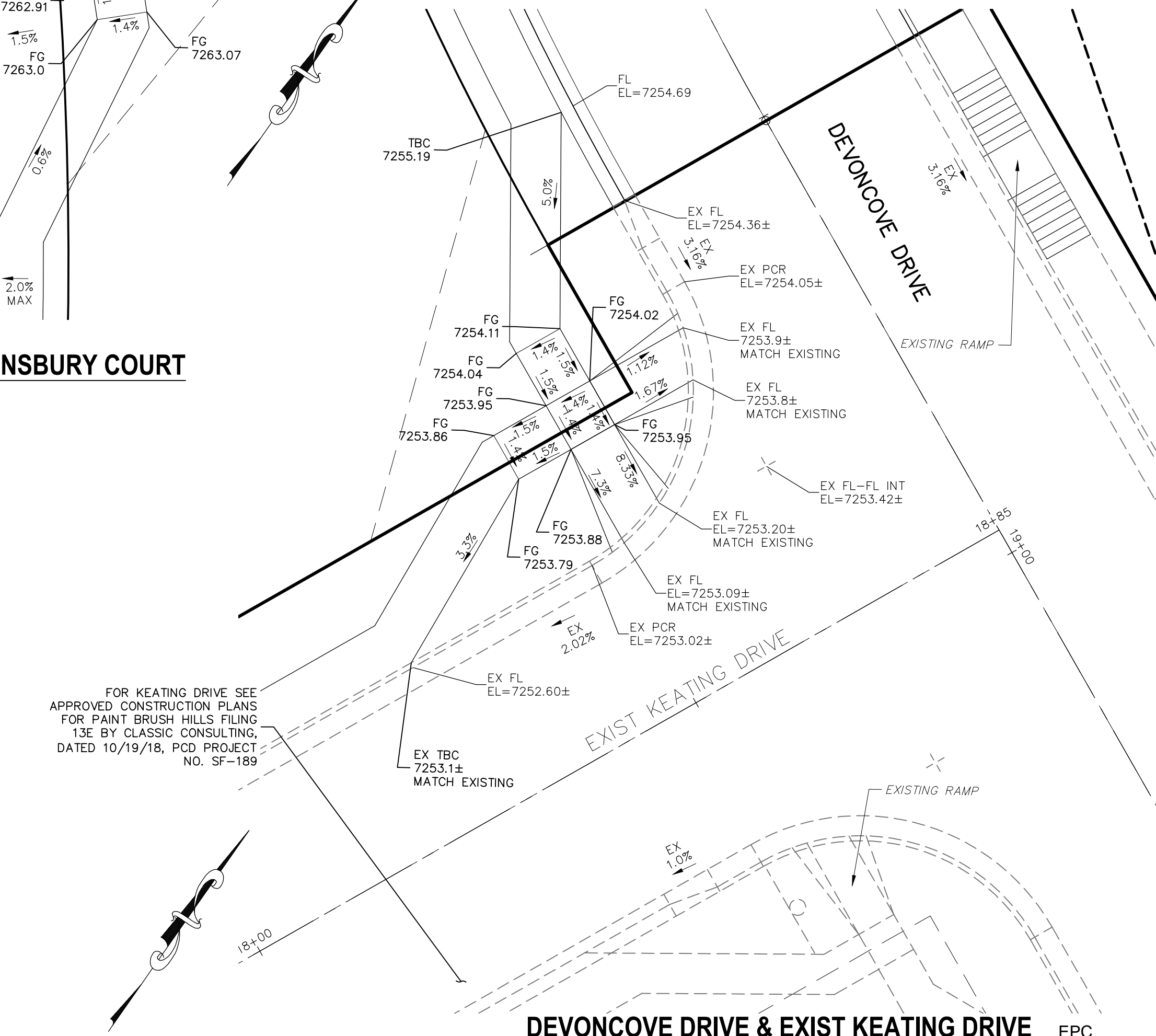
DEVONCOVE DRIVE & FINSBURY COURT



**FINSBURY COURT CDS
STA 1+95.74**

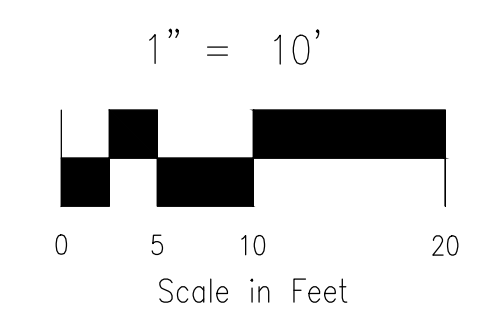


**WATERLOO DRIVE CDS
STA 2+57.37**



DEVONCOVE DRIVE & EXIST KEATING DRIVE EPC 3/2/2021

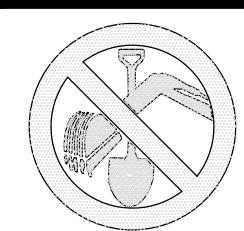
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FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

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



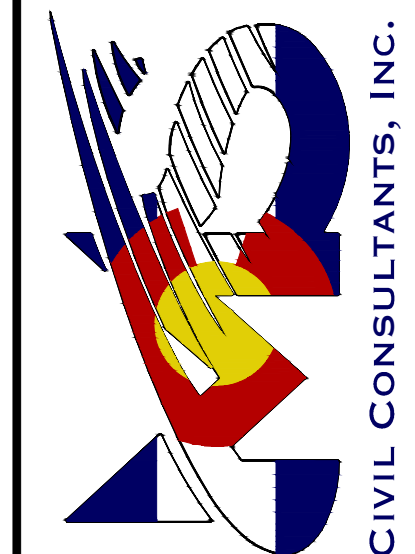
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TRAFFIC ENGINEERING: _____ DATE: _____
CURB & GUTTER: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____

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



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

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

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
3-22-21


NO.	DATE	DESCRIPTION

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CAUTION

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
SIGNAGE AND STRIPING PLAN
 PROJECT NO. 10-014 FILE: \eng\Const Dwg\Street & Storm Plans\S18-19.dwg
 DATE: 03/19/2021
 SCALE: N/A
 DESIGNED BY: JWP
 DRAWN BY: JWP
 CHECKED BY: GW
 SHEET 18 OF 30
S18

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.

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

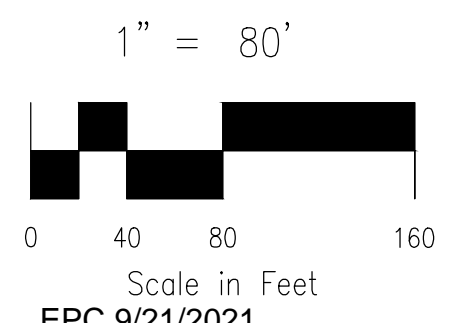
NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

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CAUTION

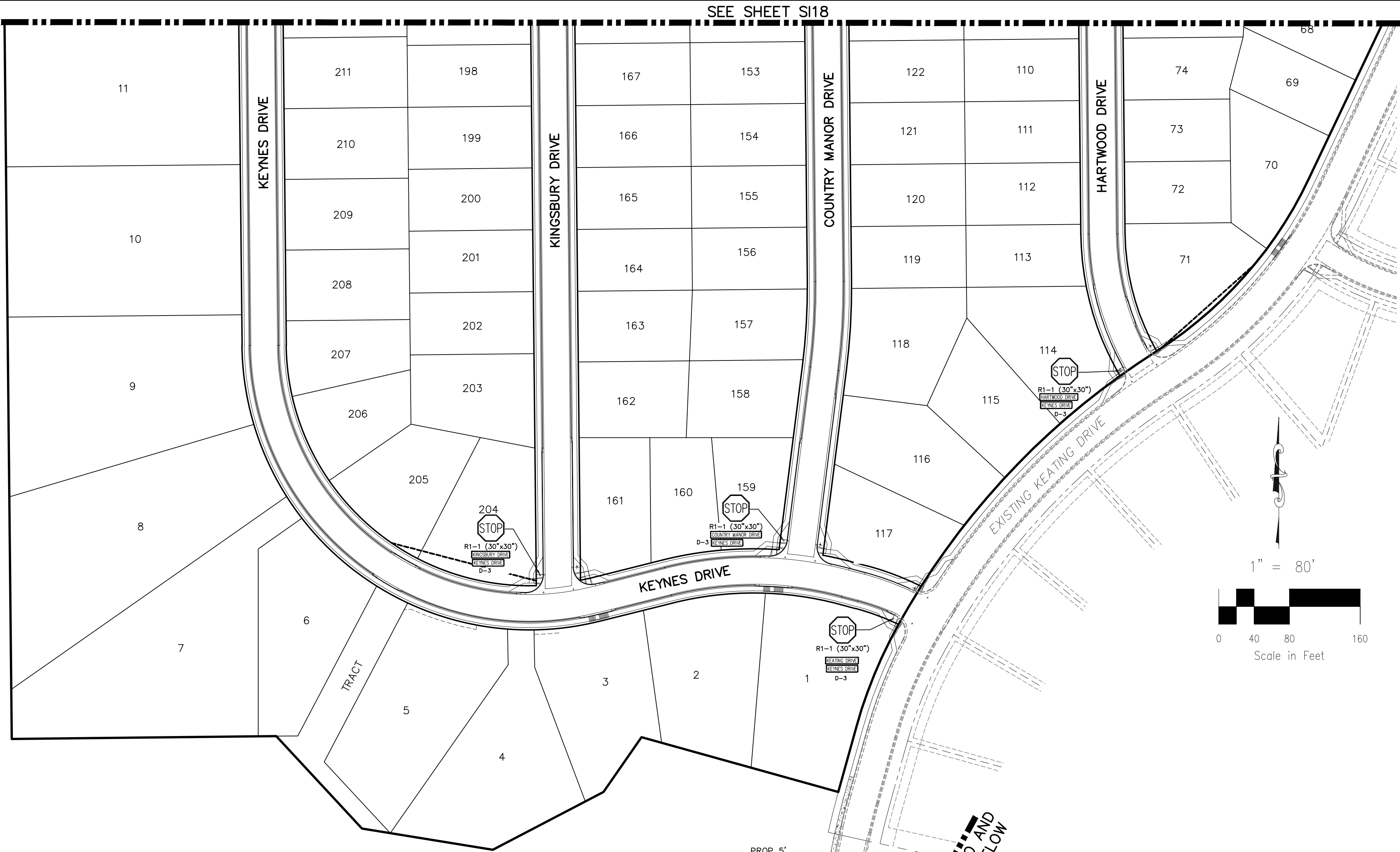


SEE SHEET S119



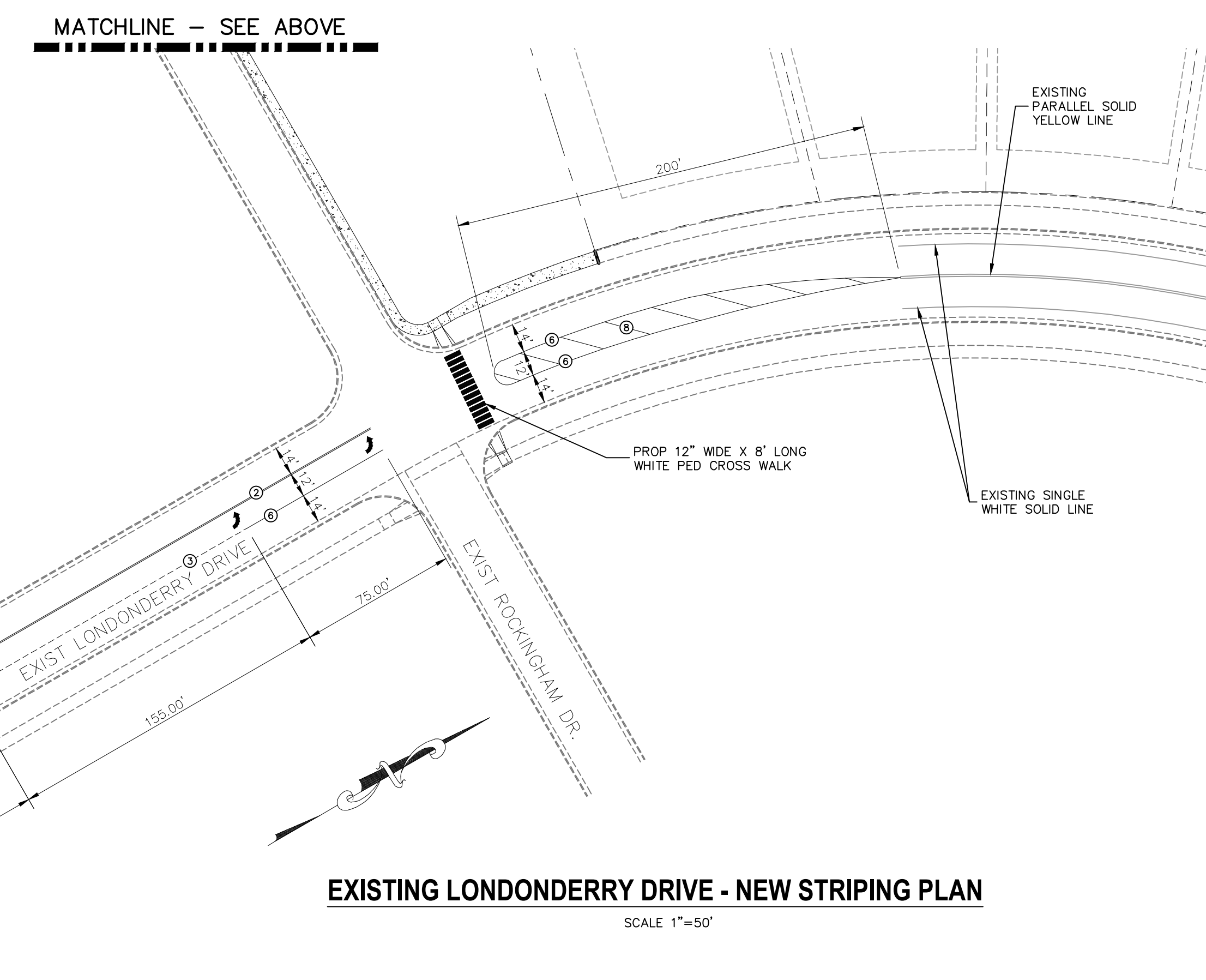
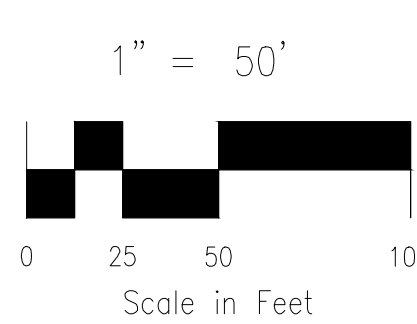
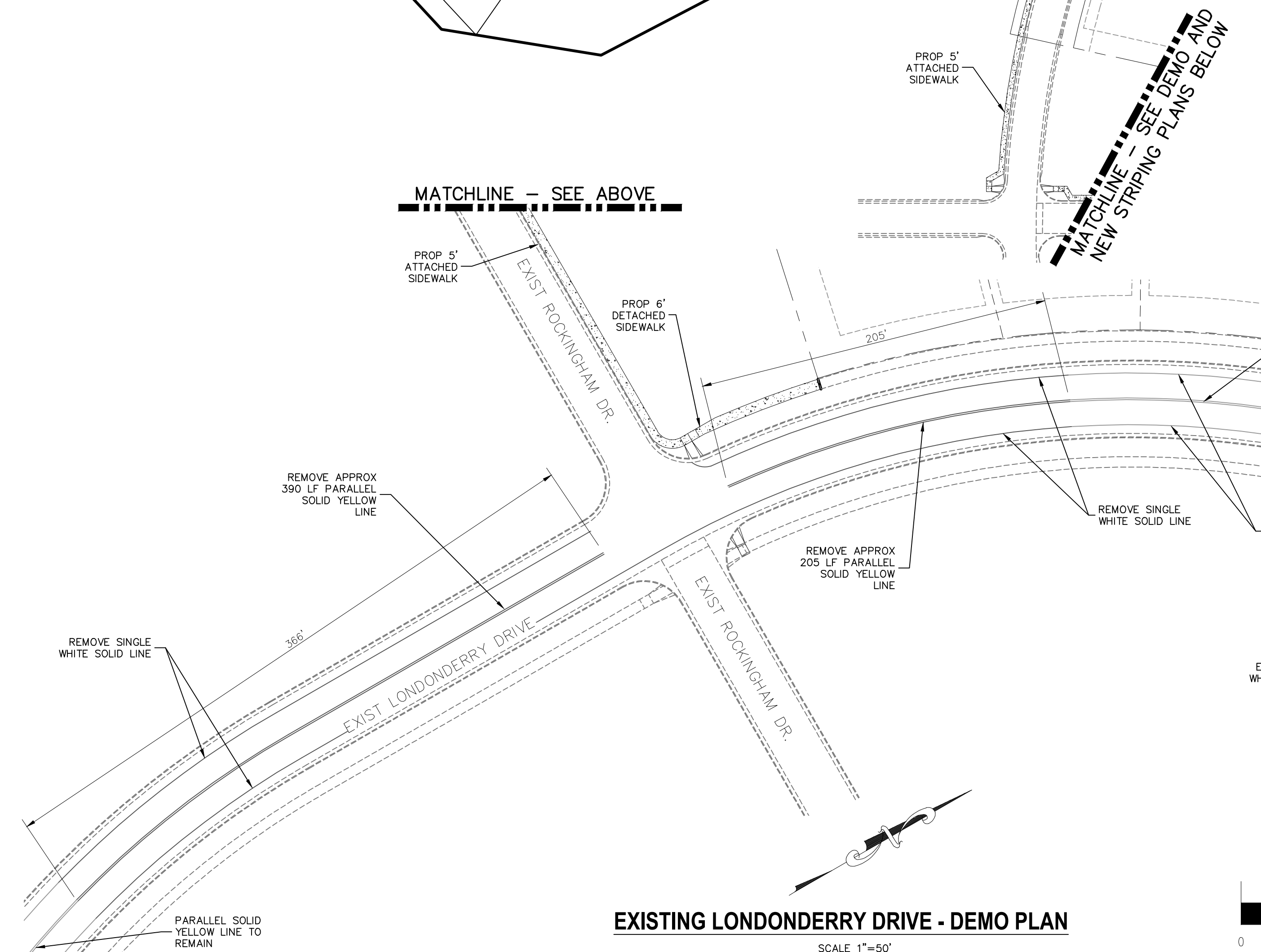
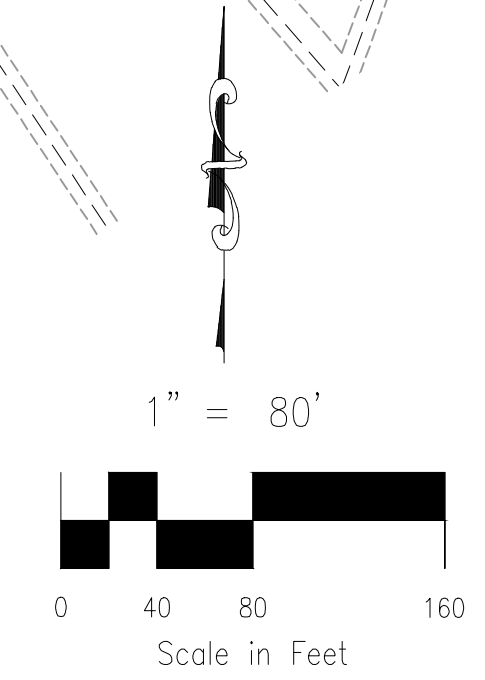
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PAINT BRUSH HILLS FILING NO. 14
SIGNAGE AND STRIPING PLAN
 PROJECT NO. 10-014 FILE: \Lang\Const\Draw\Street & Storm Plans\SI18-19.dwg DATE: 04/06/2021
 DESIGNED BY: JWP SCALE: N/A
 DRAWN BY: JWP HORIZ: 1"=50'
 CHECKED BY: GW VERT: N/A SHEET 19 OF 30 **SI19**



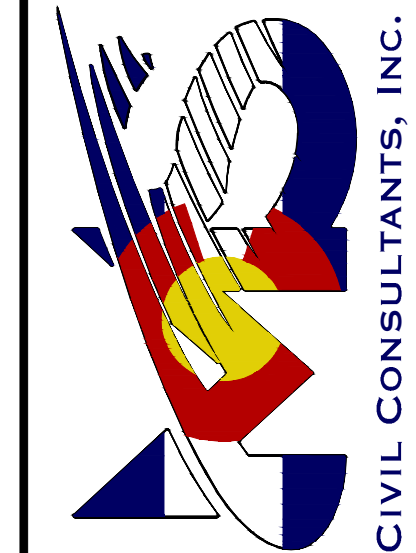
STRIPE	PAVEMENT MARKINGS	MARKING DESCRIPTION
①	2-WAY LEFT TURN LANE MARKINGS (EPOXY)	OUTSIDE: SOLID YELLOW, 4" WIDE, INSIDE: BROKEN YELLOW, 4" WIDE, 10' SEGMENTS WITH 30" GAPS
②	2-WAY CENTERLINE LANE MARKINGS (EPOXY)	PARALLEL SOLID YELLOW, 4" WIDE, 4" APART
③	LANE LINES (EPOXY)	BROKEN WHITE, 8" WIDE,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

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



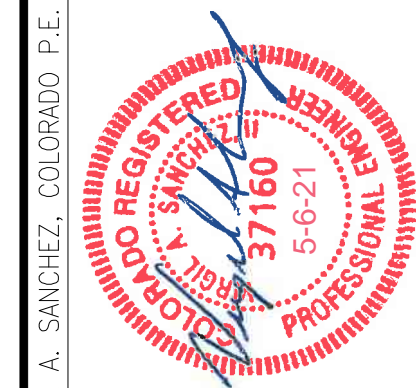
EXISTING LONDONDERRY DRIVE - NEW STRIPING PLAN
 SCALE 1"=50'

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



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

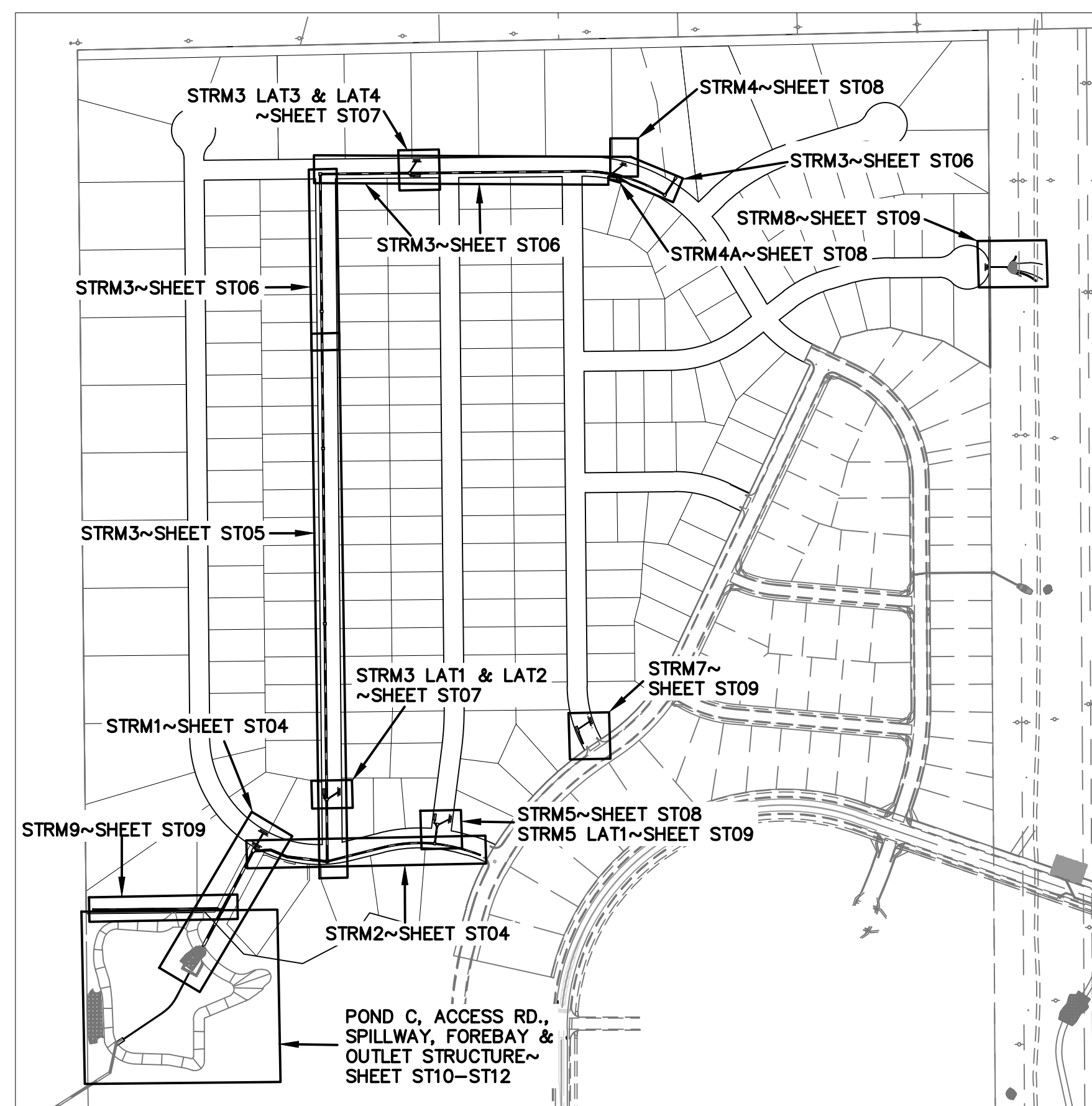
MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160



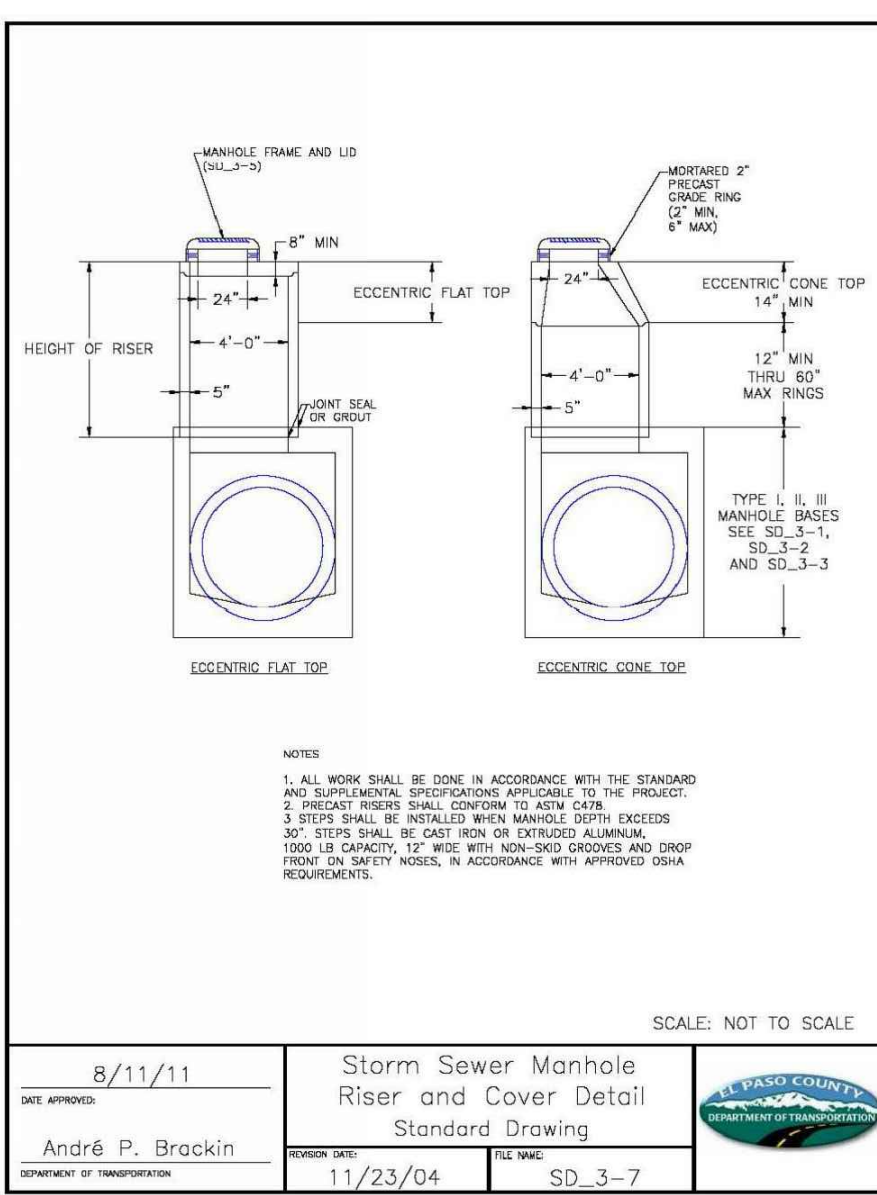
NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

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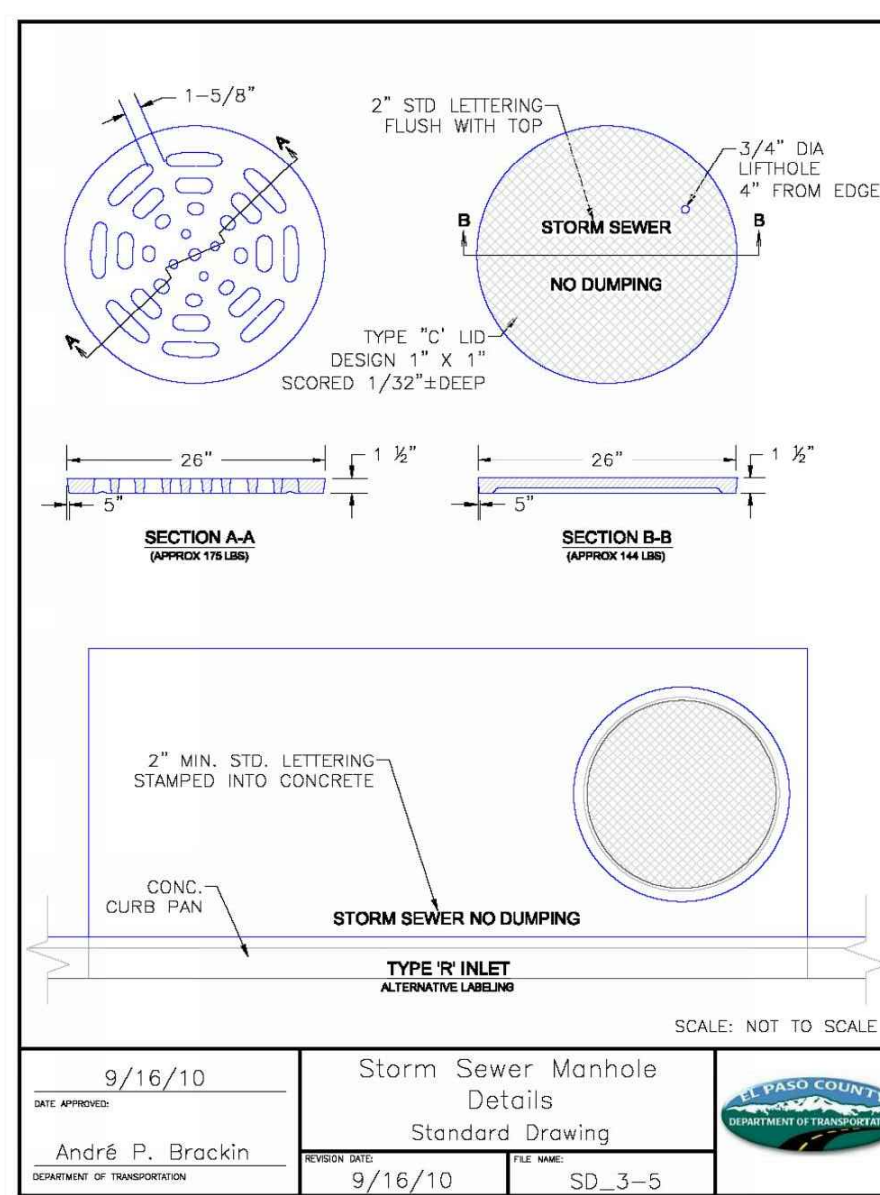
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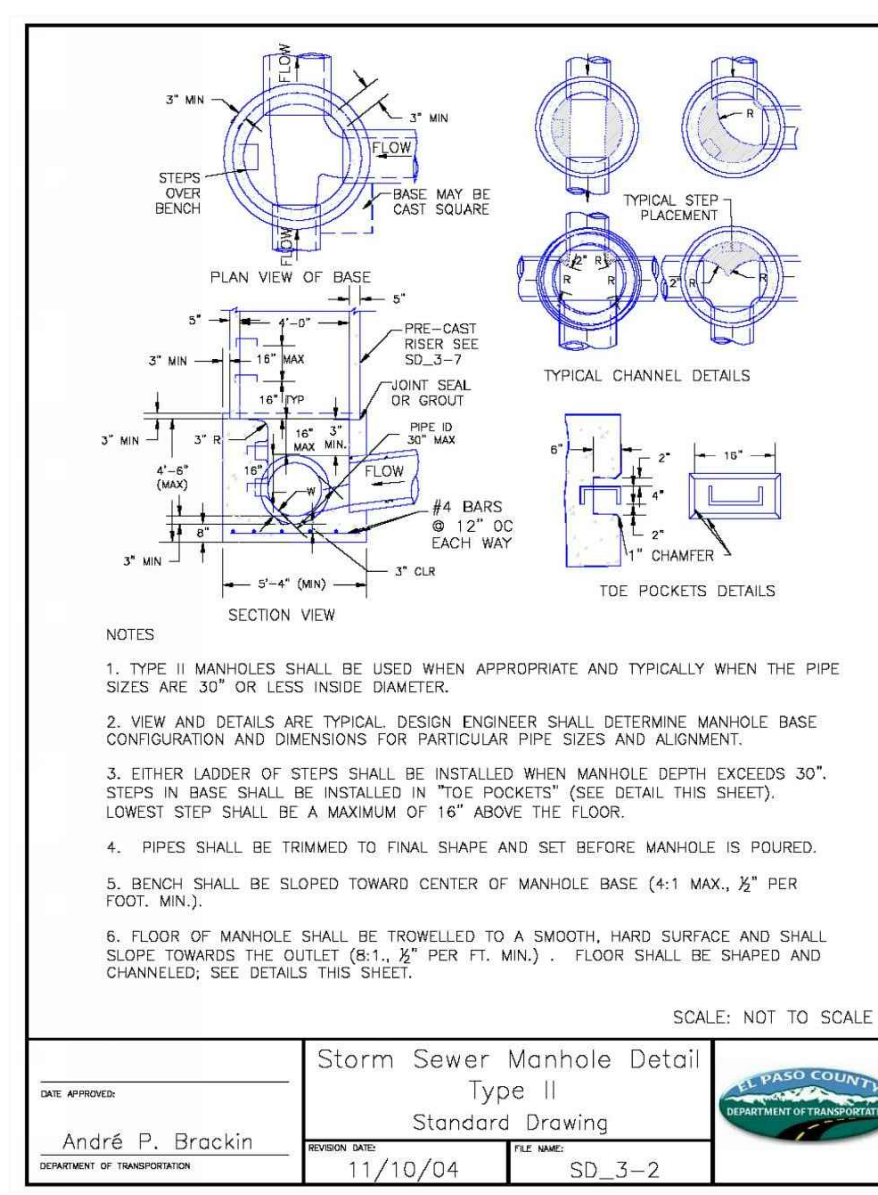
SHEET KEY MAP
N.T.S.



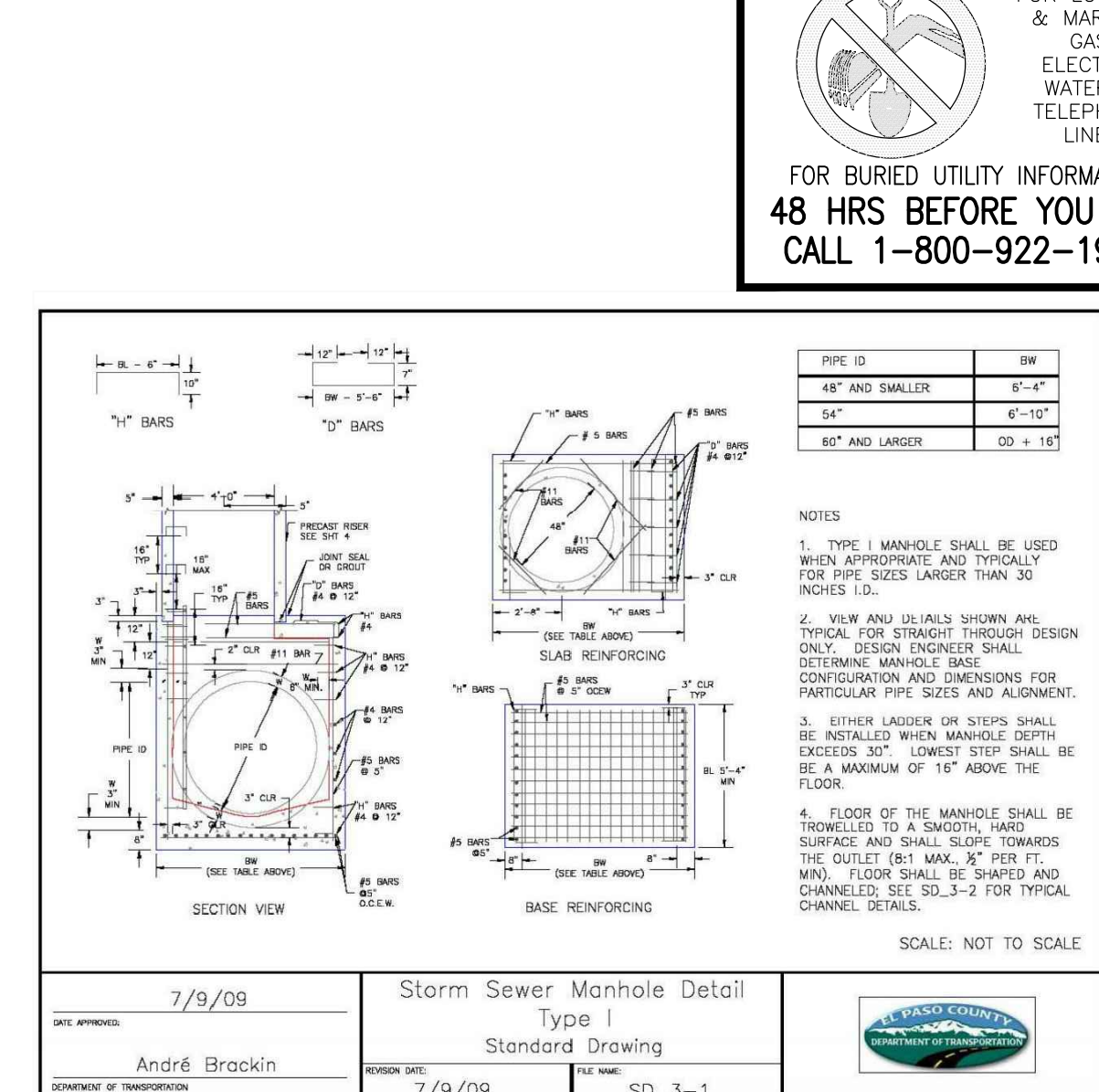
STORM SEWER MANHOLE
RISER AND COVER DETAIL
TYPE SD 3-7



STORM SEWER MANHOLE
LID DETAILS SD 3-5



STORM SEWER MANHOLE DETAIL
TYPE II SD 3-2

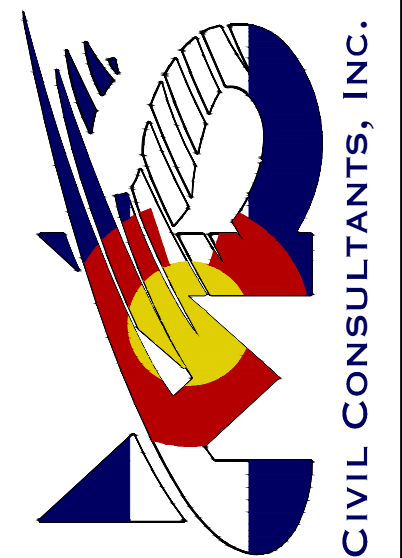


STORM SEWER MANHOLE DETAIL
TYPE I SD 3-1

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PROJECT NO. 10-014
FILE: Yang\Const\Draw\Storm - District\ST02.dwg
DATE: 03/19/21
DESIGNED BY: GT
DRAWN BY: CMN
CHECKED BY: VAS
SCALE: N/A
SHEET 20 OF 30
ST02

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COLORADO SPRINGS, CO 80903
PHONE: 719.565.5485

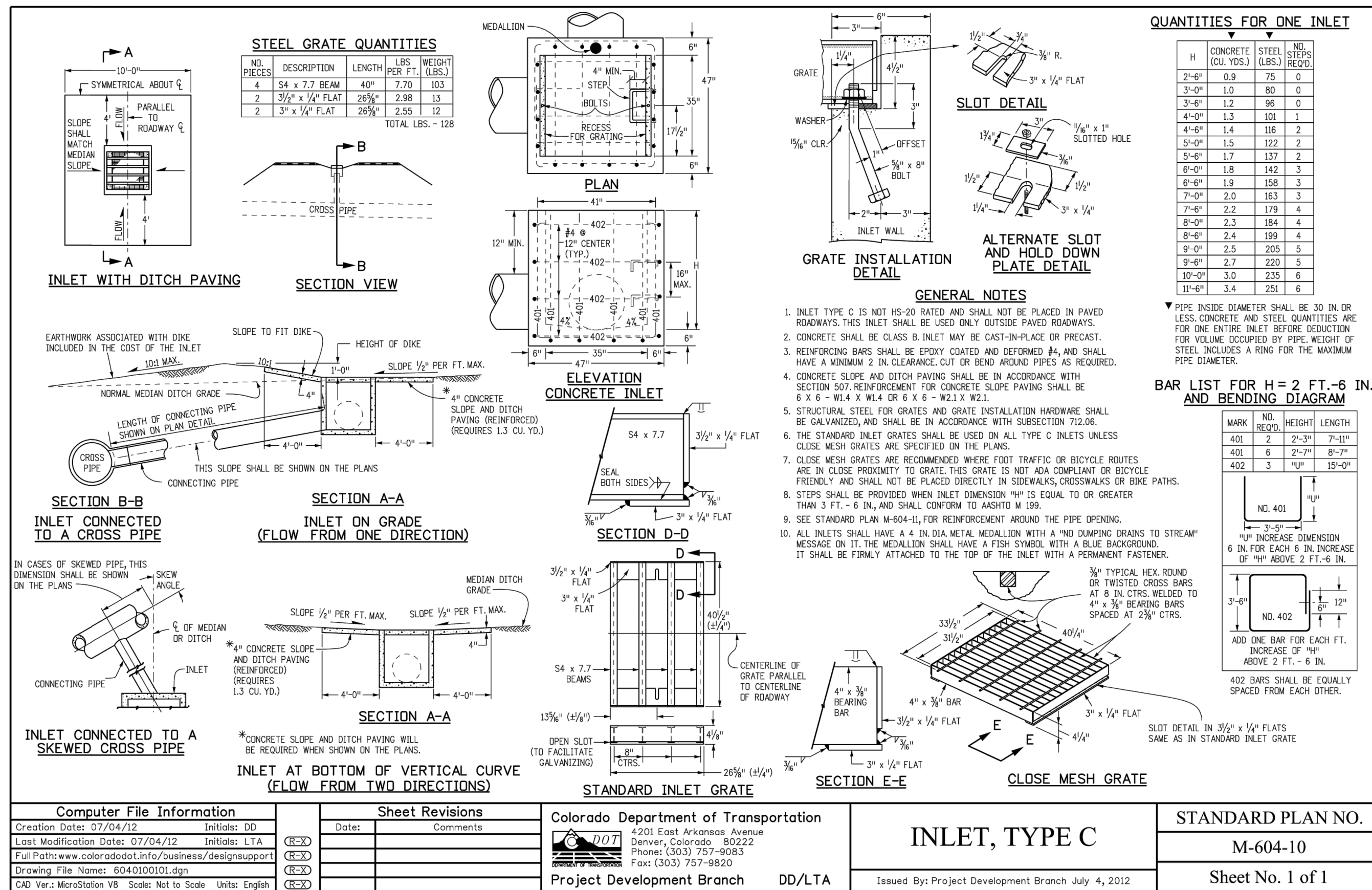


FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

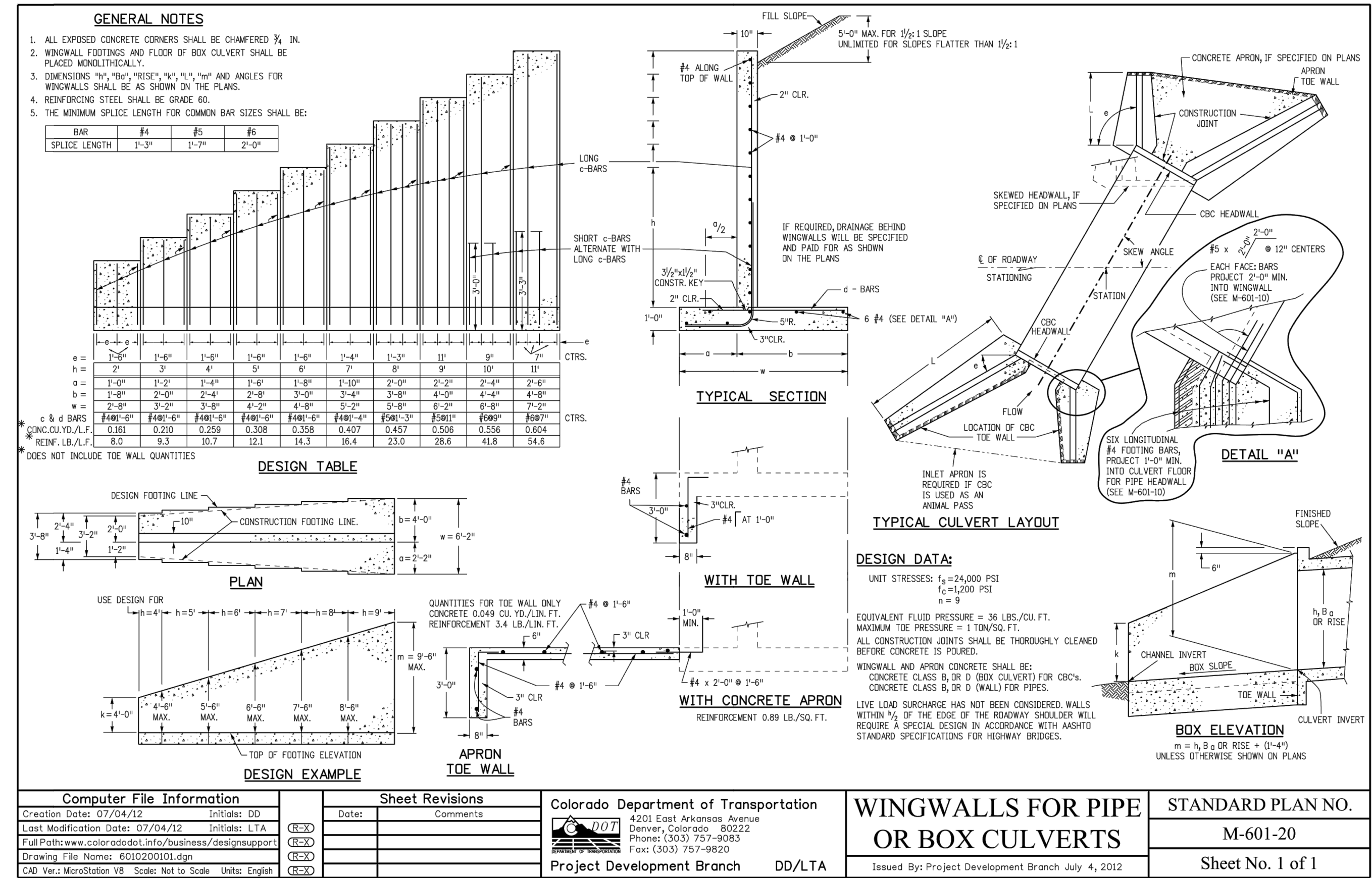
MARCIA A. SANCHEZ, COLORADO P.E. NO. 371760



REVISIONS:	NO.	DATE:	BY:	DESCRIPTION:



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



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

CAUTION

GENERAL NOTES:
 1. FOR LENGTH (L) 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. CUT REINFORCEMENT BAR ACCORDINGLY.
 2. STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE.
 3. MEET SHAPE OF NORMAL BARRIER CURB AND GUTTER HERE.
 4. SEE CHANNEL LAYOUT ON SHEET 2.
 5. 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.
 6. 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.
 7. NOTE: MANHOLE RING AND COVER, STATION POINT AND OUTFLOW PIPE SHALL BE LOCATED AT THE SAME END OF THE INLET.

Computer File Information
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 Last Modification Date: 07/04/12 Initials: LTA
 Full Path: www.colorado.gov/info/business/designsupport
 Drawing File Name: 60401202.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

STANDARD PLAN NO.
 M-604-12
 Sheet No. 1 of 2

GENERAL NOTES:
 1. 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.
 2. CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
 3. SEE PLANS FOR SIZE AND LOCATION OF PIPE.
 4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
 5. STANDARD INLET GRATES SHALL BE USED ON ALL TYPE D INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
 6. 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.
 7. 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.
 8. 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.
 9. 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.

Computer File Information
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 Last Modification Date: 07/04/12 Initials: LTA
 Full Path: www.colorado.gov/info/business/designsupport
 Drawing File Name: 60401201.dgn
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions
 Date: Comments

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 Fax: (303) 757-9820
 Project Development Branch DD/LTA

STANDARD PLAN NO.
 M-604-11
 Sheet No. 1 of 1

GENERAL NOTES:
 1. CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
 2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
 3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
 4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
 5. 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.
 6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
 7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
 8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
 9. 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.
 10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
 11. 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
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 Last Modification Date: 07/04/12 Initials: LTA
 Full Path: www.colorado.gov/info/business/designsupport
 Drawing File Name: 60401202.dgn
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

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 Date: Comments

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STANDARD PLAN NO.
 M-604-12
 Sheet No. 2 of 2

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	283
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
 SCALE: DATE: 03/19/21
 DESIGNED BY: CT
 DRAWN BY: CMM
 CHECKED BY: VAS
 SHEET 21 OF 30
 ST03

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

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

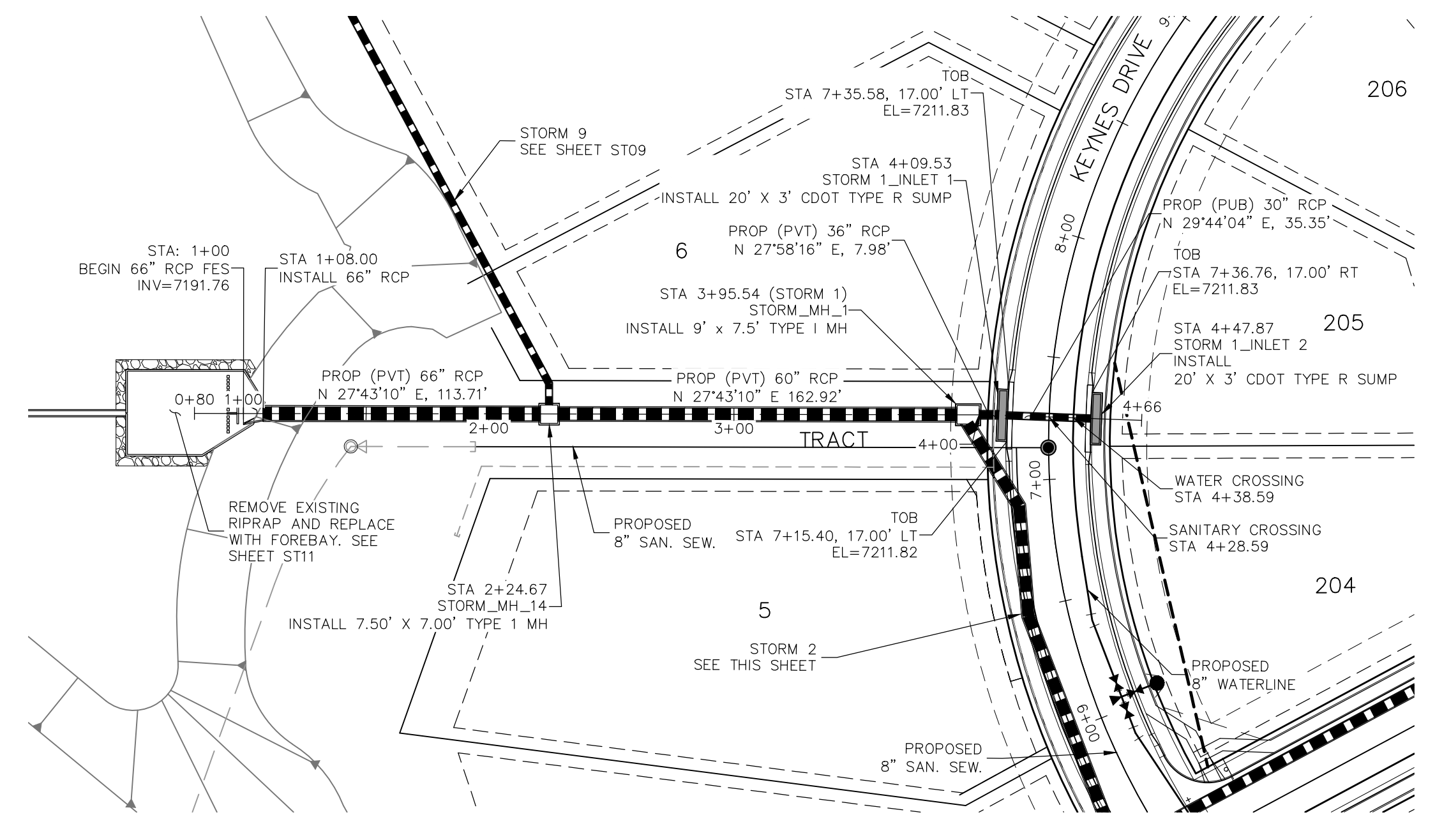
REGISTERED PROFESSIONAL ENGINEER
 NO. 37160
 EXPIRES 3-22-21

REVISIONS:
 NO. DATE: BY: DESCRIPTION:

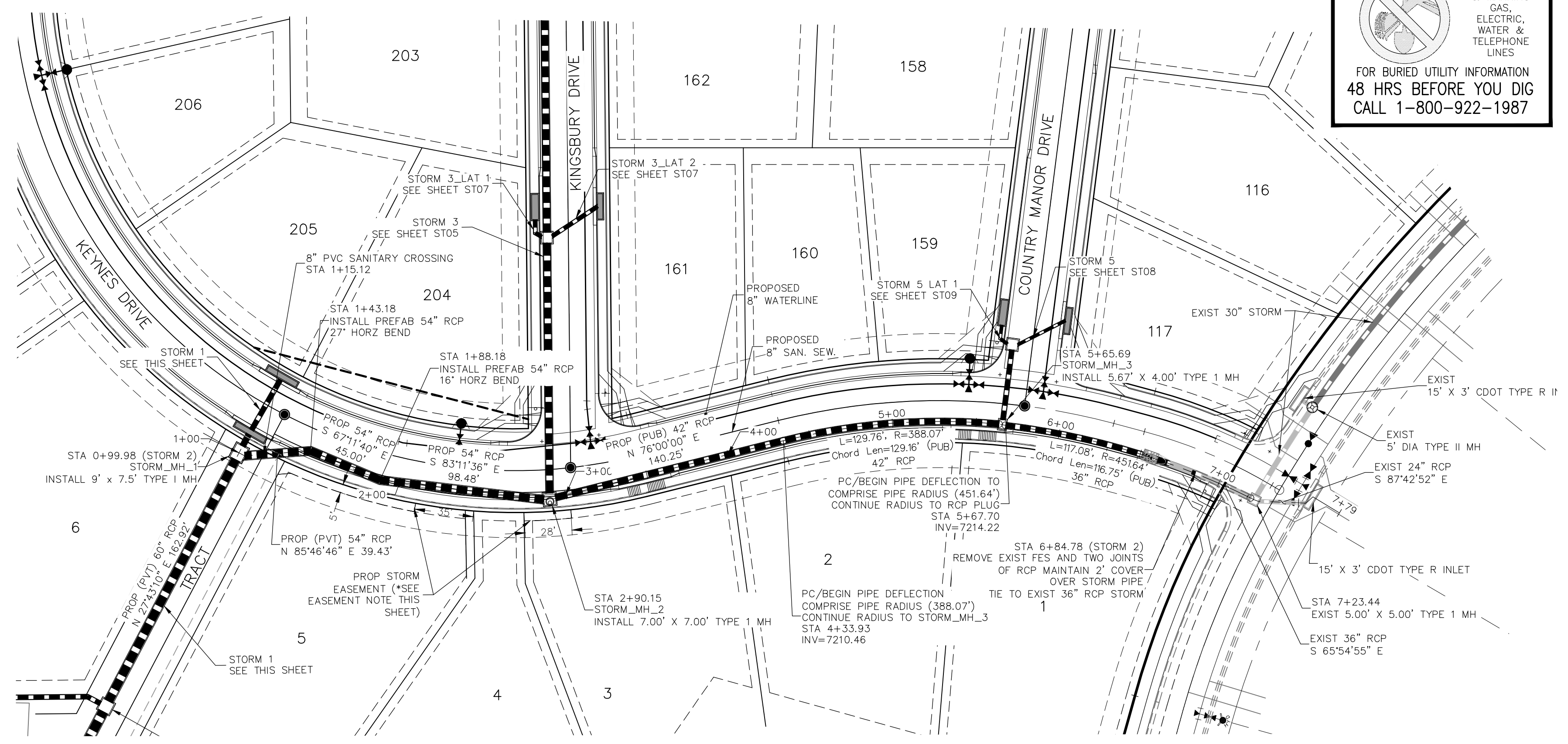
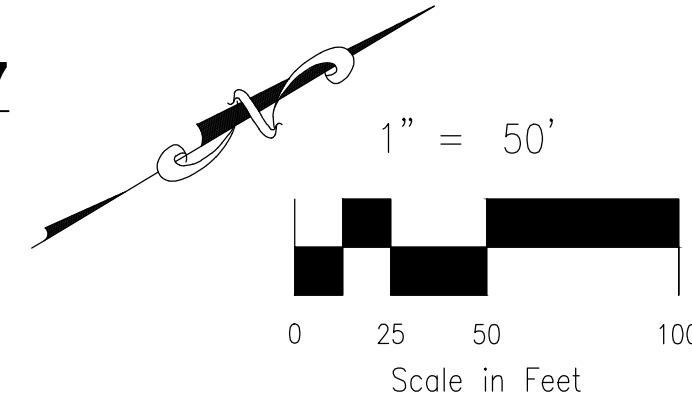
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CAUTION

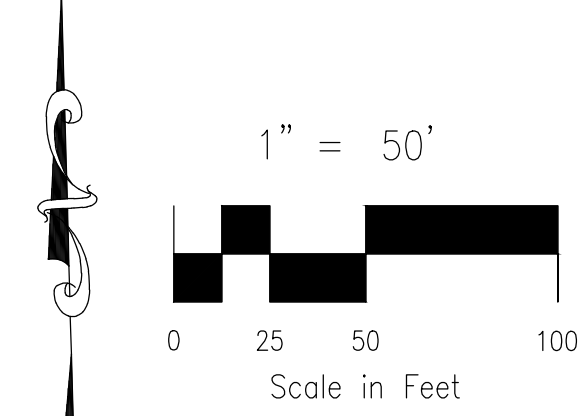
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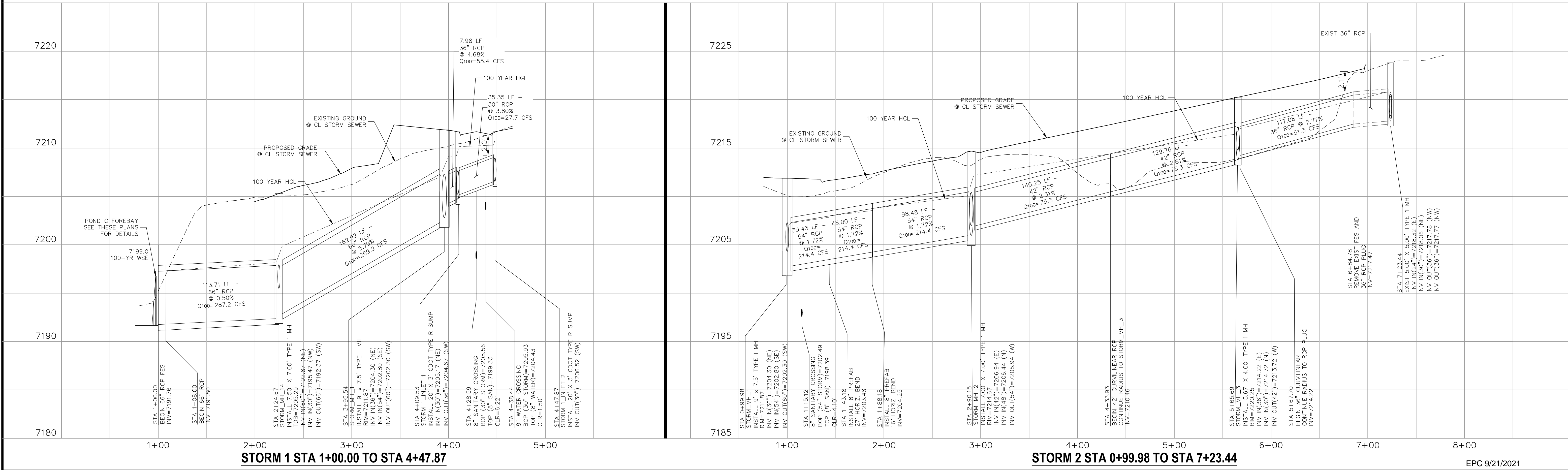


STORM 2
STA 0+99.98 TO STA 7+23.44



***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.
 - WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATERTIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATERTIGHT SEAL.
 - MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.



STORM 1 STA 1+00.00 TO STA 4+47.87

STORM 2 STA 0+99.98 TO STA 7+23.44

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 22 OF 30

CHECKED BY: VAS **ST04**

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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

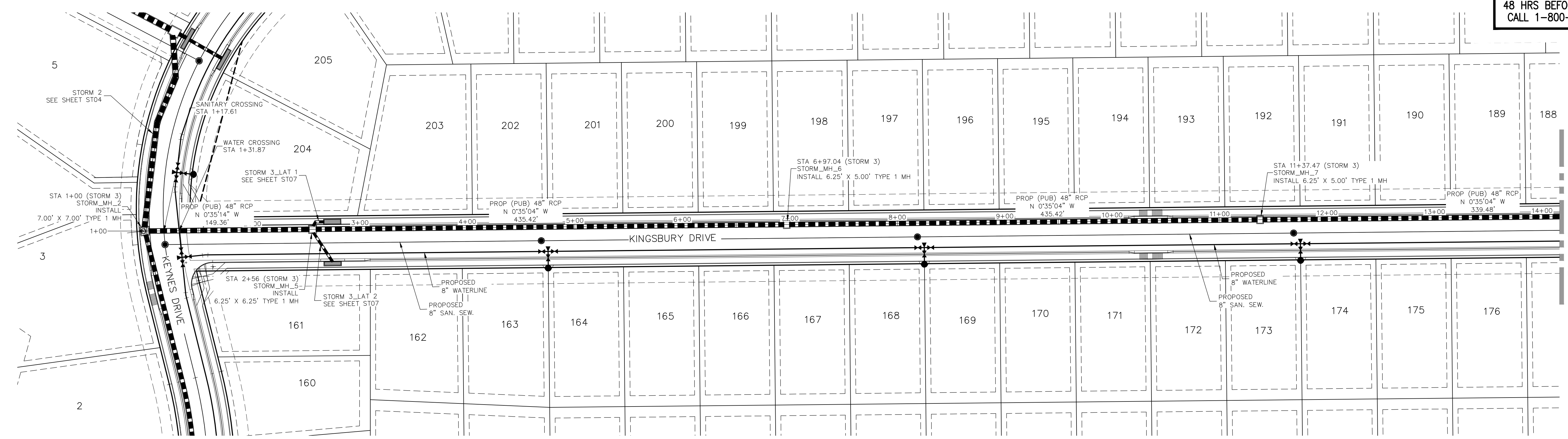
REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:	APPROV. BY:	DATE:

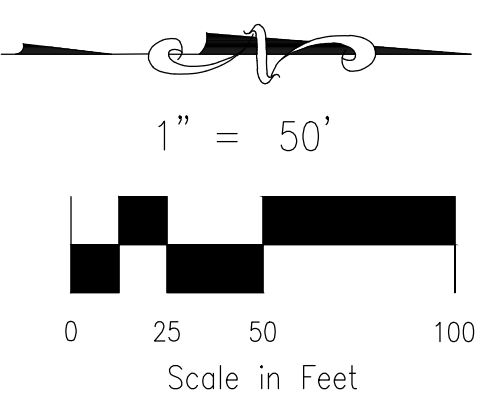
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CAUTION

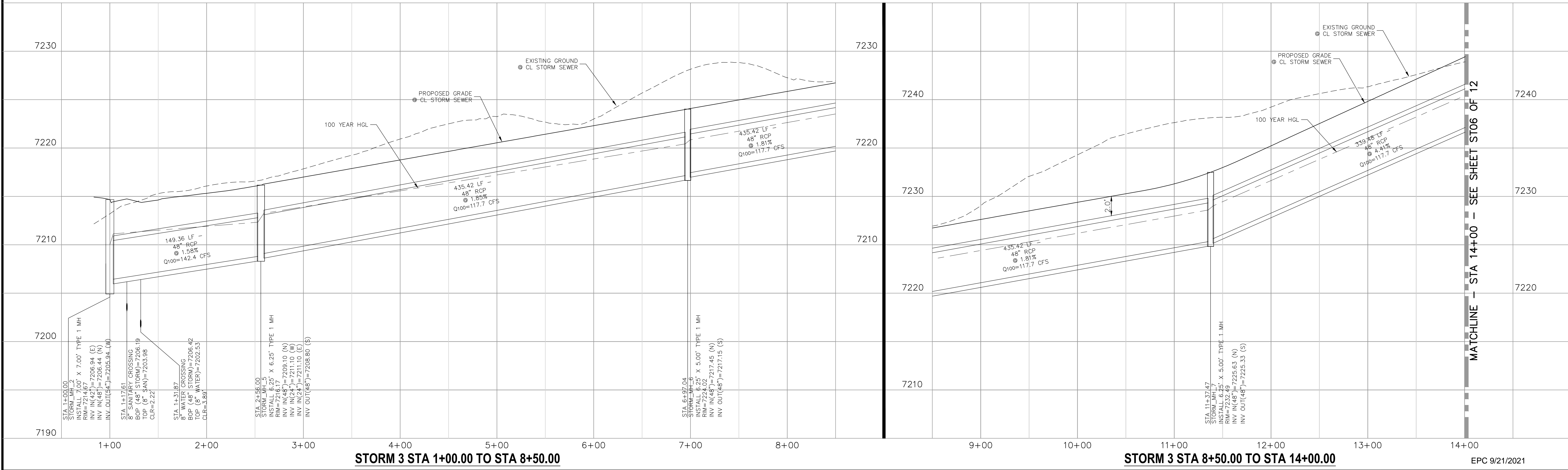
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 CALL 1-800-922-1987



STORM 3
STA 1+00.00 TO STA 14+00.00



NOTE:
 1. WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATERTIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATERTIGHT SEAL.
 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

EPC 9/21/2021

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

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 COLORADO SPRINGS, CO 80903
 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

NO.	DATE	BY	DESCRIPTION

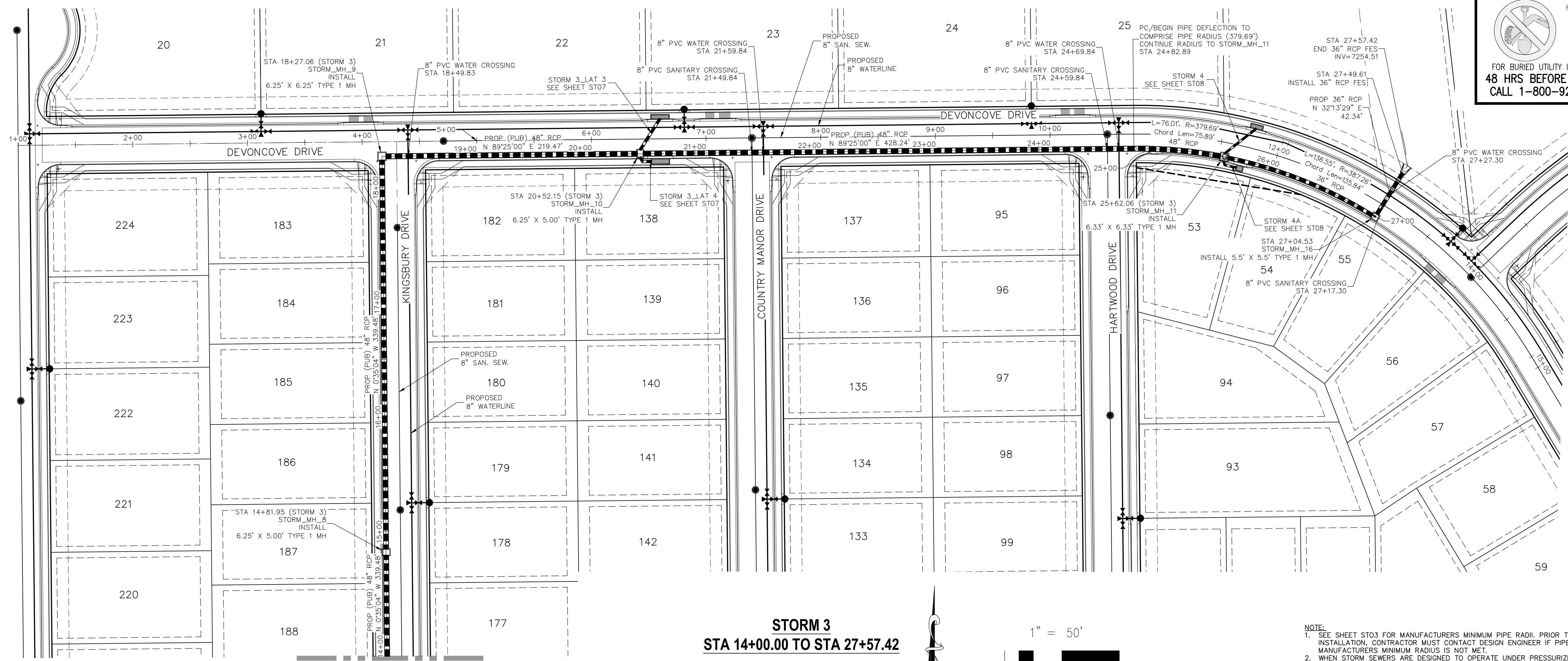
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CAUTION

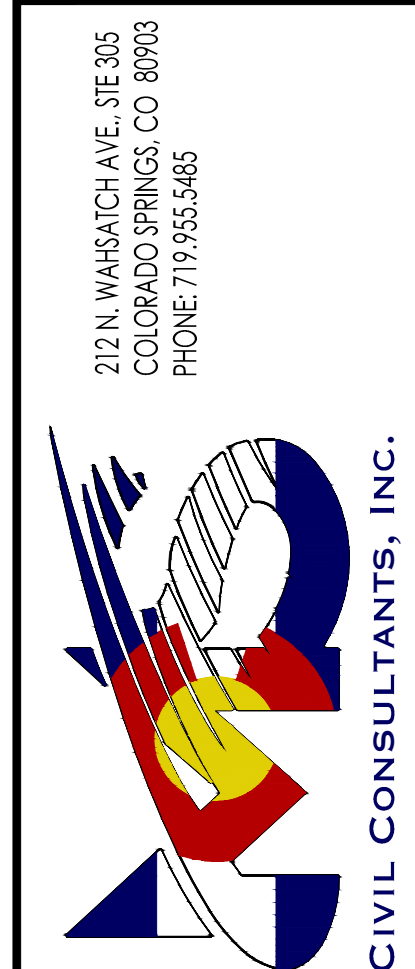
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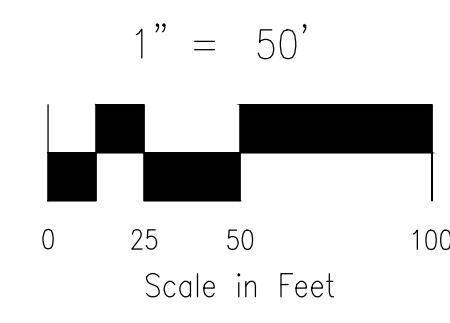


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STORM PLAN & PROFILE
PROJECT NO. 10-014 DATE: 03/19/21
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: GT
DRAWN BY: CMN
CHECKED BY: VAS



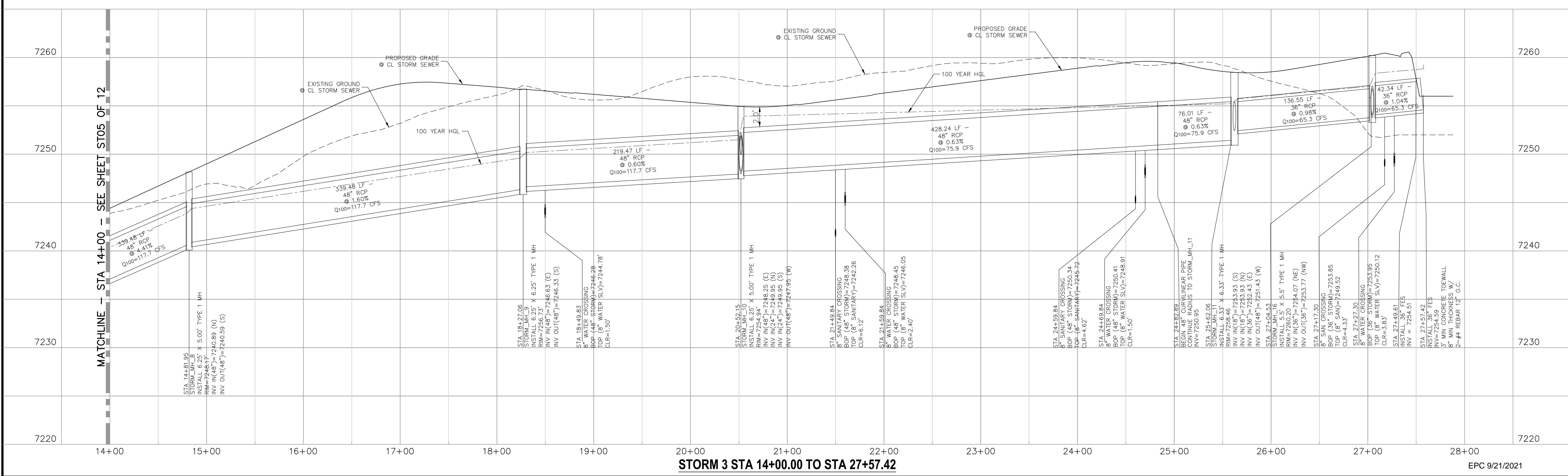
STORM 3
STA 14+00.00 TO STA 27+57.42



- NOTE:
- SEE SHEET ST03 FOR MANUFACTURERS MINIMUM PIPE RADII. PRIOR TO INSTALLATION, CONTRACTOR MUST CONTACT DESIGN ENGINEER IF PIPE MANUFACTURERS MINIMUM RADIUS IS NOT MET.
 - WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATERTIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATERTIGHT SEAL.
 - MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.

MATCHLINE - STA 14+00
SEE SHEET ST05 OF 12

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



STORM 3 STA 14+00.00 TO STA 27+57.42

EPC 9/21/2021

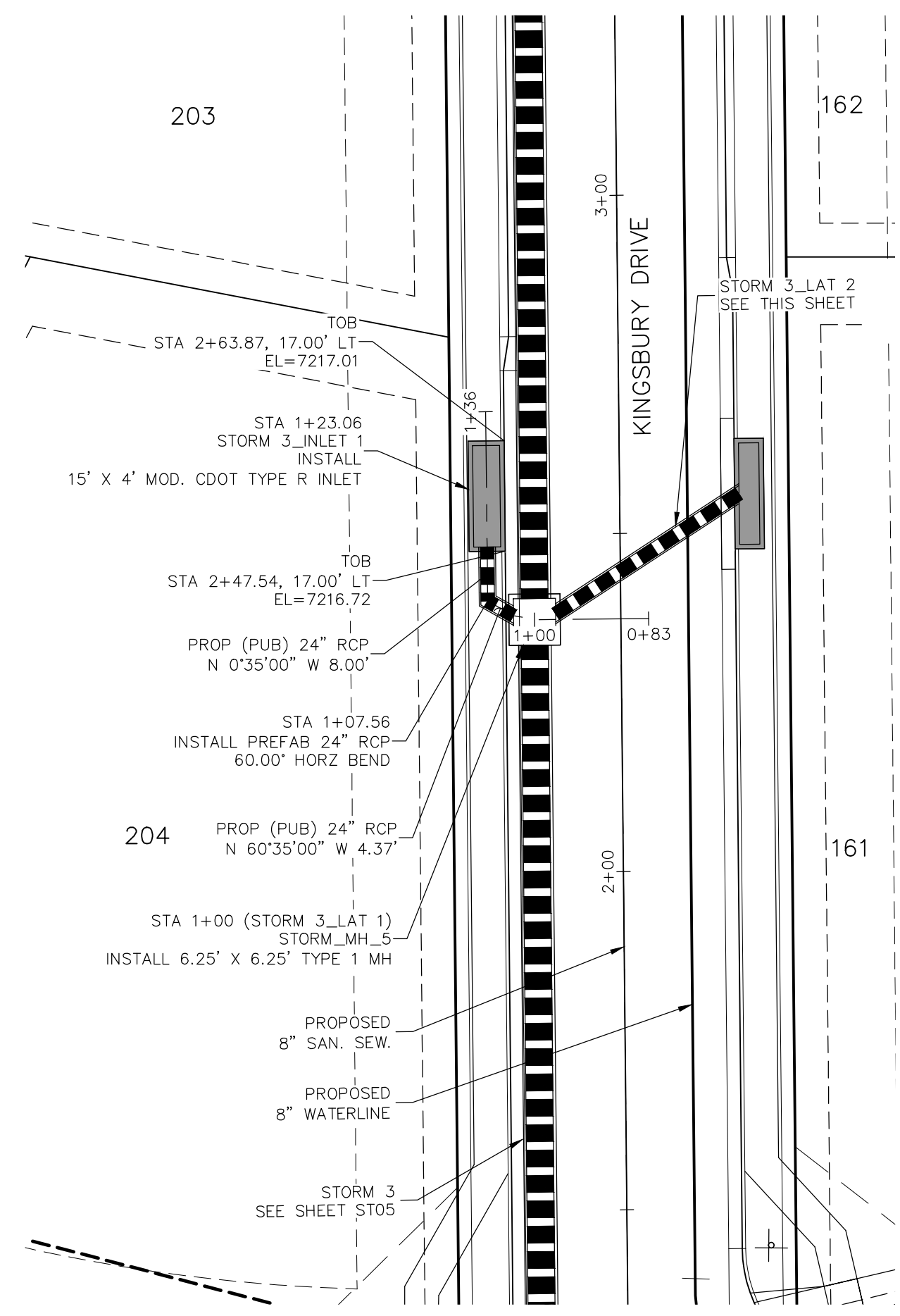
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FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

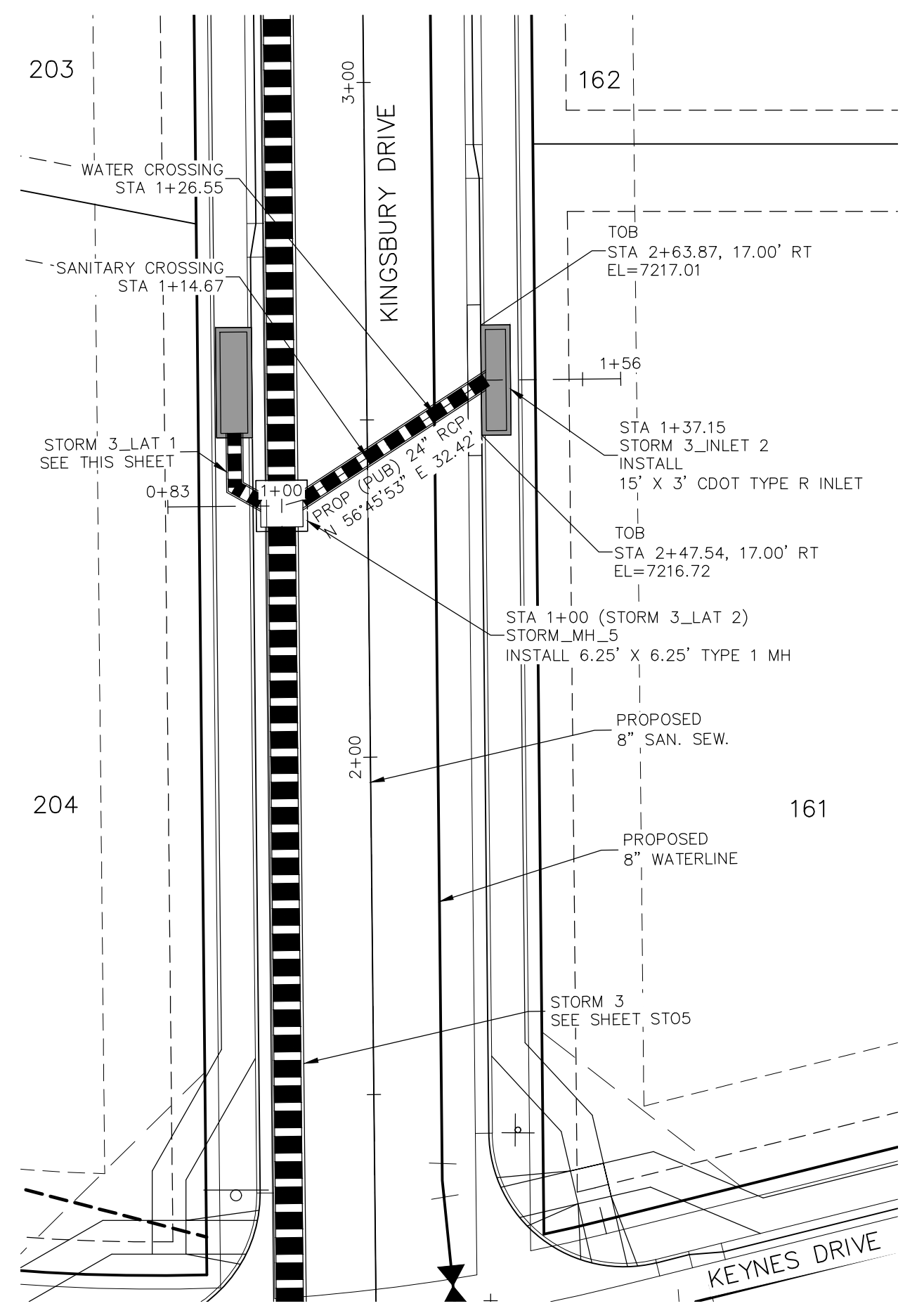
MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

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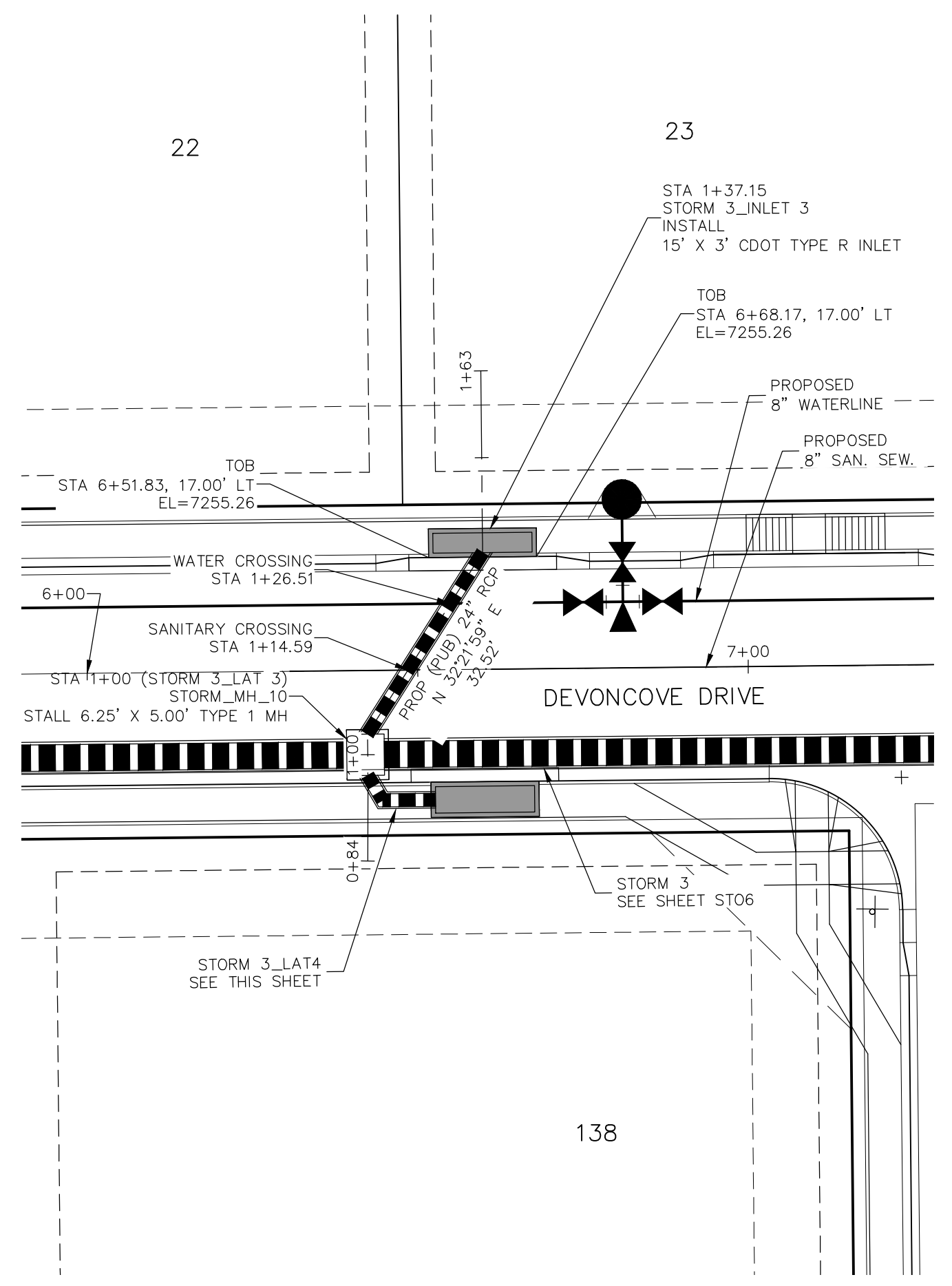
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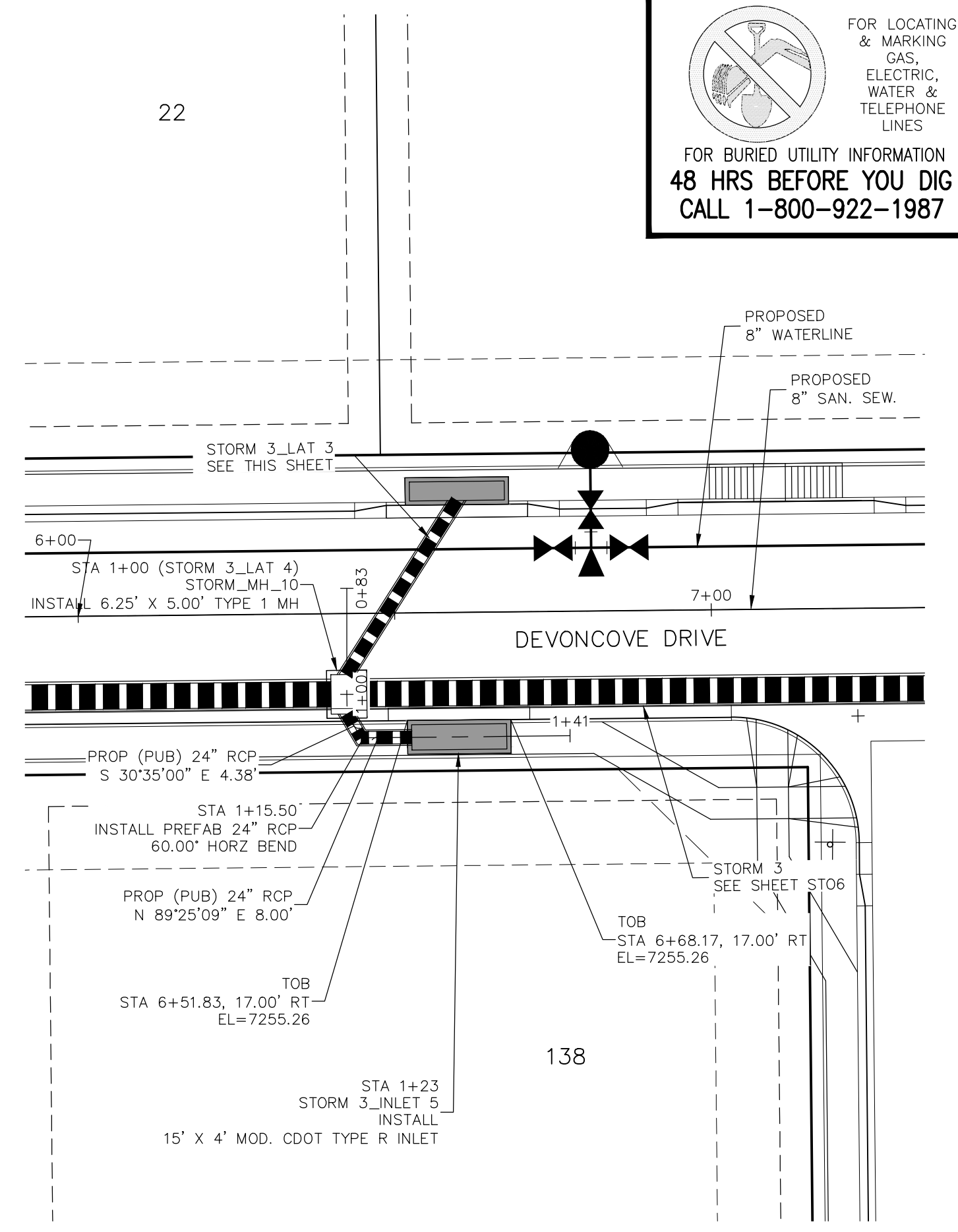
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**STORM 3 LAT 2
STA 1+00.00 TO STA 1+37.15**

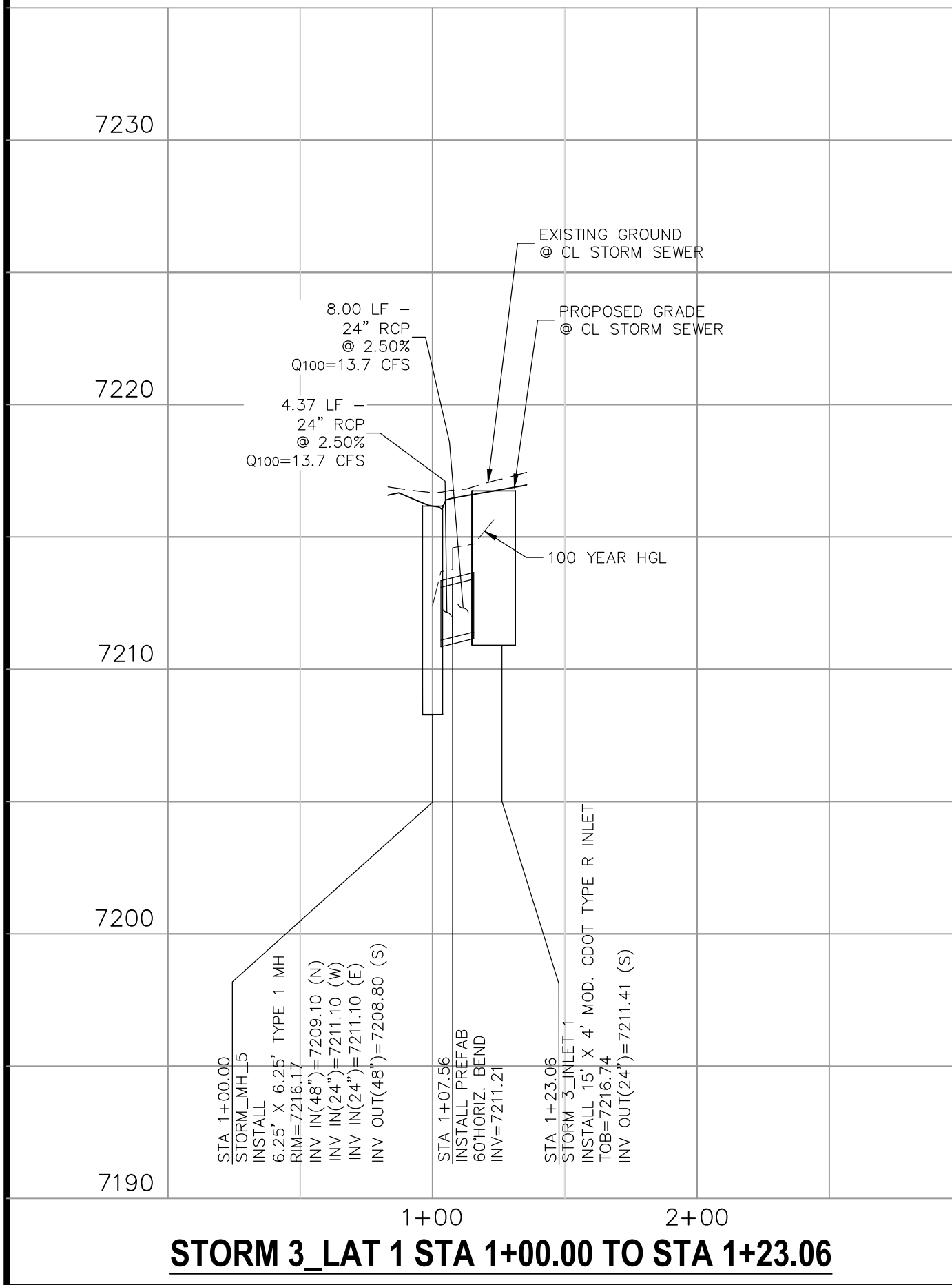
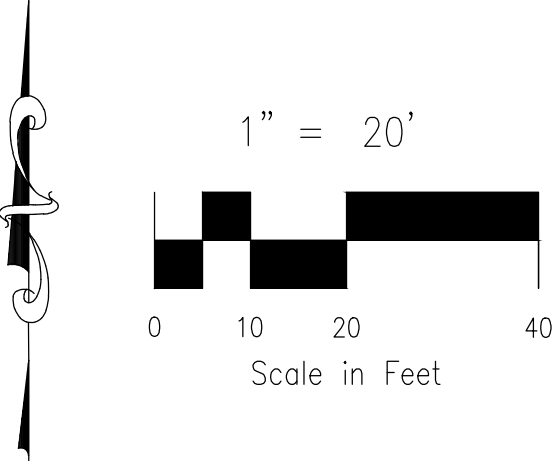


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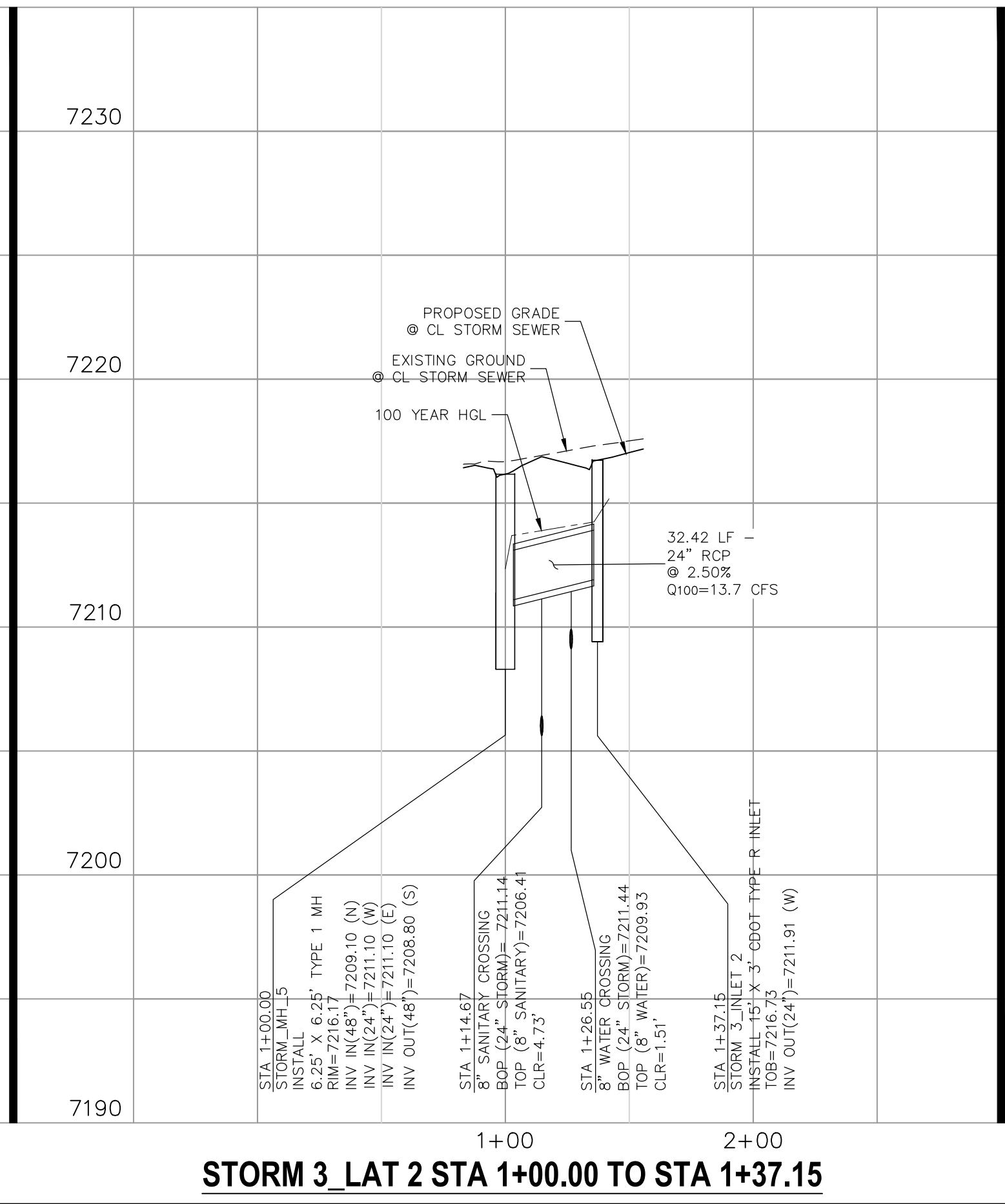


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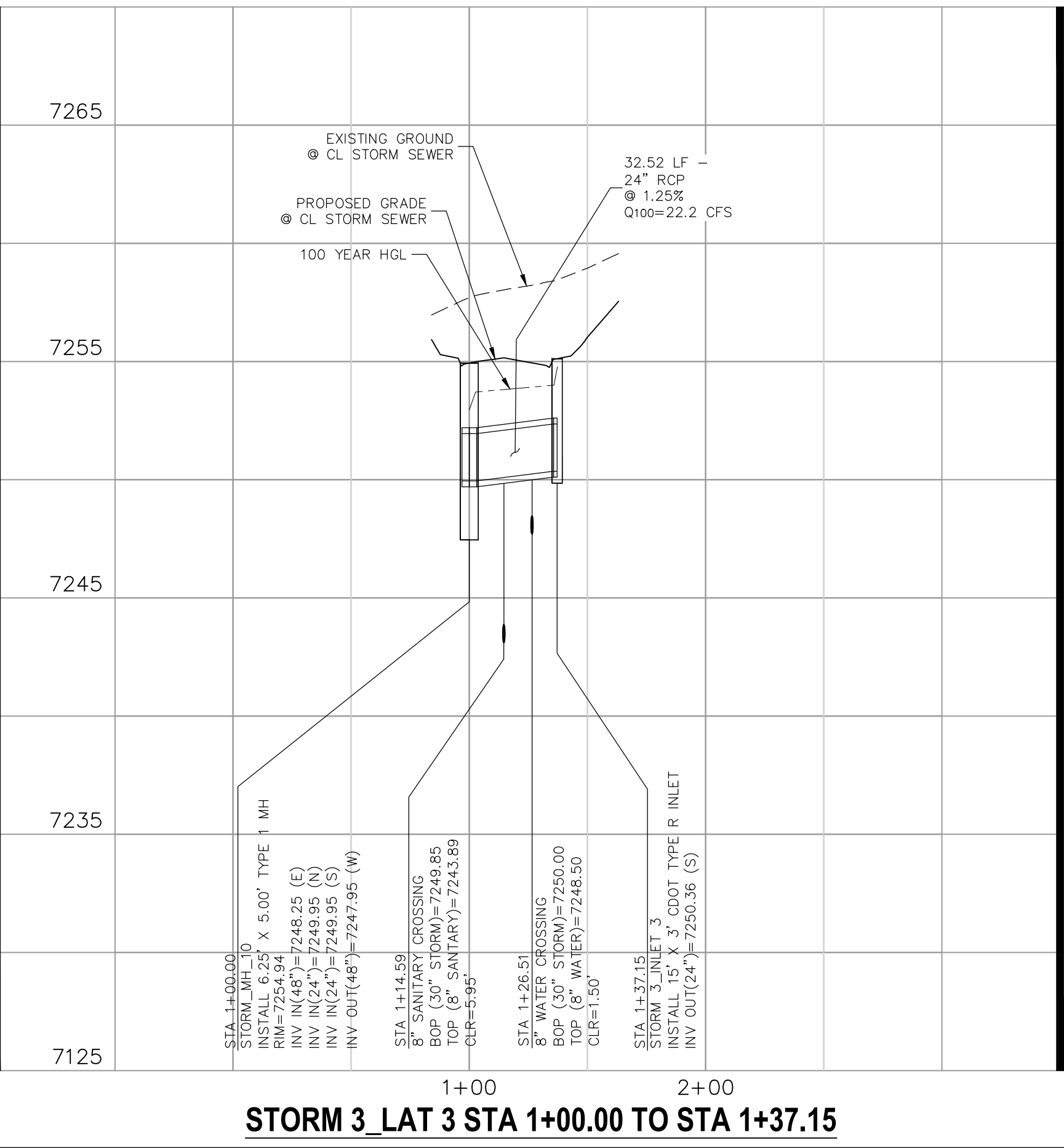
- NOTE:**
1. WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATERTIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATERTIGHT SEAL.
 2. MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.



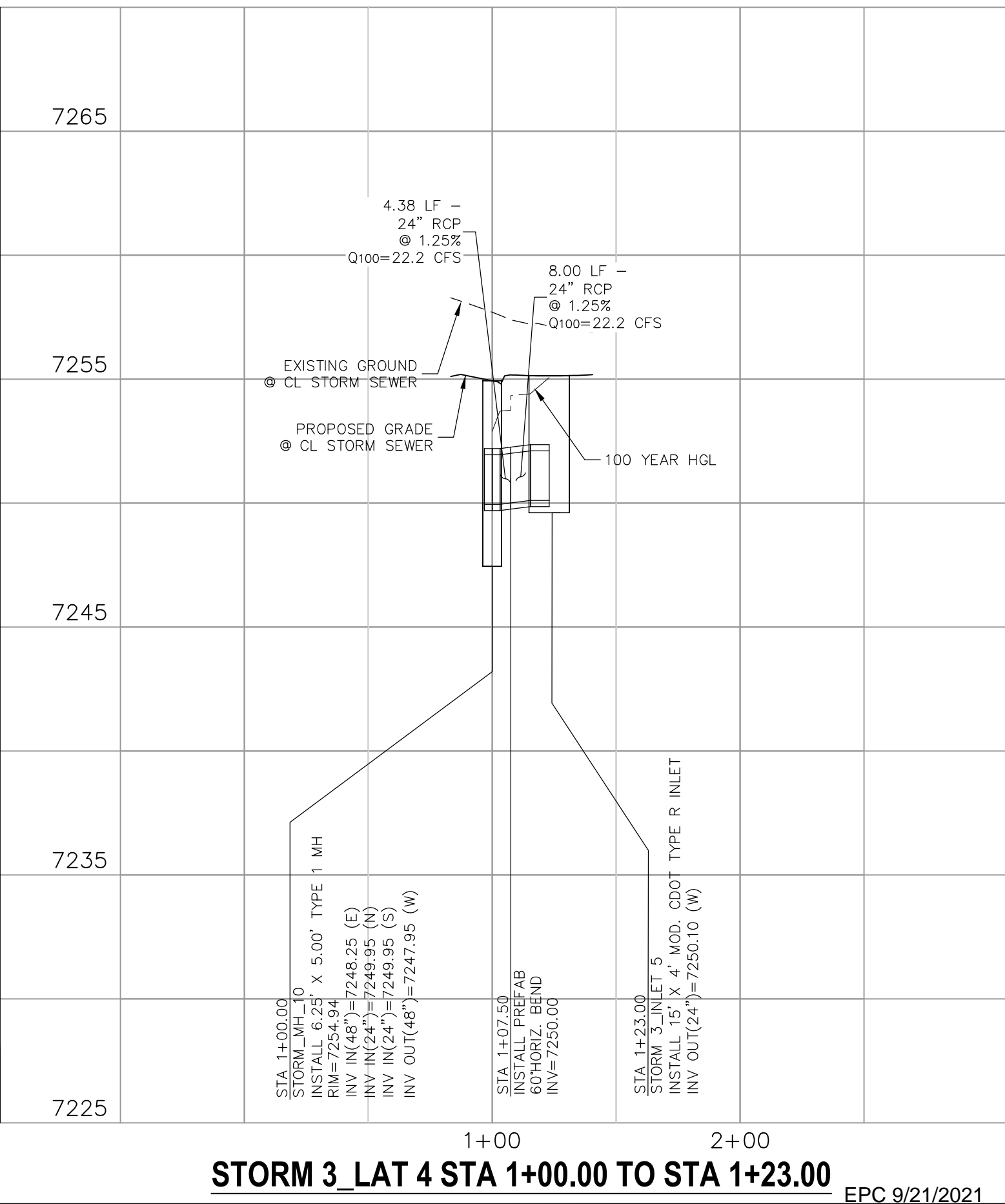
STORM 3 LAT 1 STA 1+00.00 TO STA 1+23.06



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

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 25 OF 30

CHECKED BY: VAS ST07

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.

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

REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:

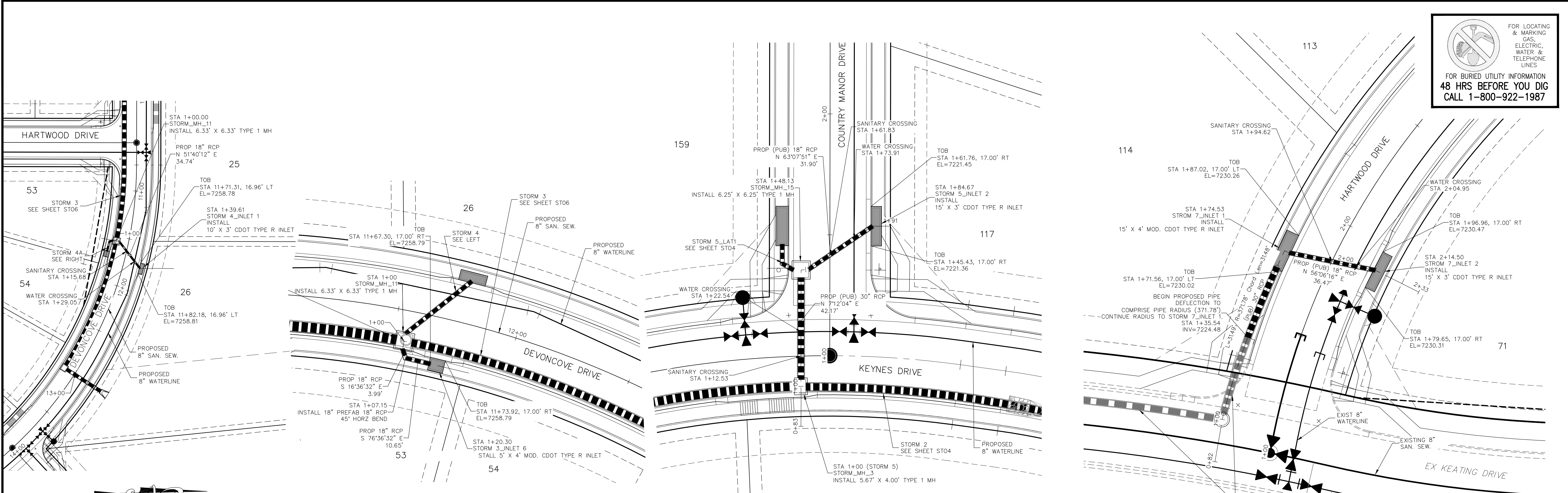
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

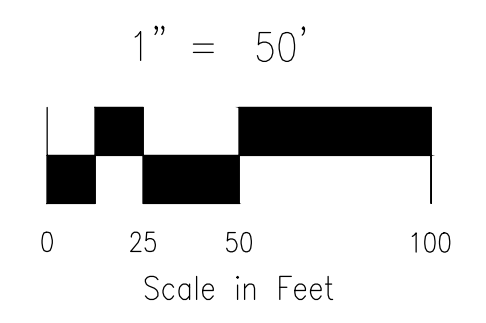
EPC 9/21/2021

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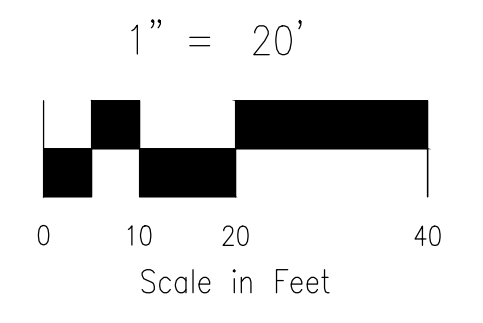
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
 FOR BURIED UTILITY INFORMATION
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 CALL 1-800-922-1987



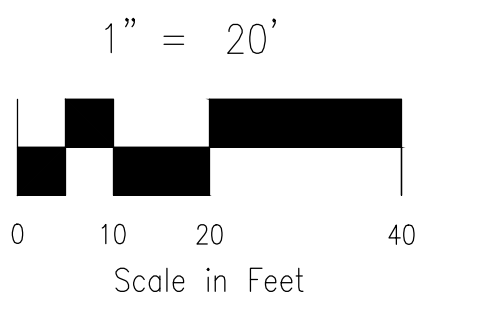
STORM 4
 STA 1+00.00 TO STA 1+39.61



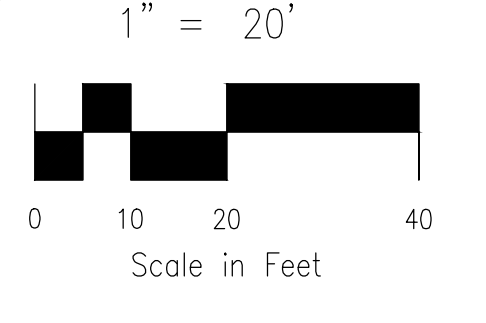
STORM 4A
 STA 1+00.00 TO STA 1+20.30



STORM 5
 STA 1+00.00 TO STA 1+84.67



STORM 7
 STA 1+00.00 TO STA 2+14.50



- NOTES:
- SEE SHEET ST03 FOR MANUFACTURERS MINIMUM PIPE RADII. PRIOR TO INSTALLATION, CONTRACTOR MUST CONTACT DESIGN ENGINEER IF PIPE MANUFACTURERS MINIMUM RADIUS IS NOT MET.
 - WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATER-TIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATER-TIGHT SEAL.
 - MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.

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
1+00	2+00	1+00	2+00	3+00	1+00
2+00	3+00	1+00	2+00	3+00	2+00
2+00	3+00	2+00	3+00	3+00	3+00

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

EPC 9/21/2021

PAINT BRUSH HILLS FILING NO. 14

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. 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.

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

NO. DATE: BY: DESCRIPTION: APPROV. BY: DATE:


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CAUTION

File: C:\Users\opriace\Documents\100144-PBH_14\Draw\Contd Draw\Storm\ST08.dwg PlotStamp: 3/19/2021 1:54 PM

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
STORM PLAN & PROFILE
 PROJECT NO. 10-014 DATE: 03/19/21
 SCALE: HORIZONTAL: 1"=20' VERTICAL: 1"=5'
 DESIGNED BY: GT
 DRAWN BY: CMN
 CHECKED BY: VAS

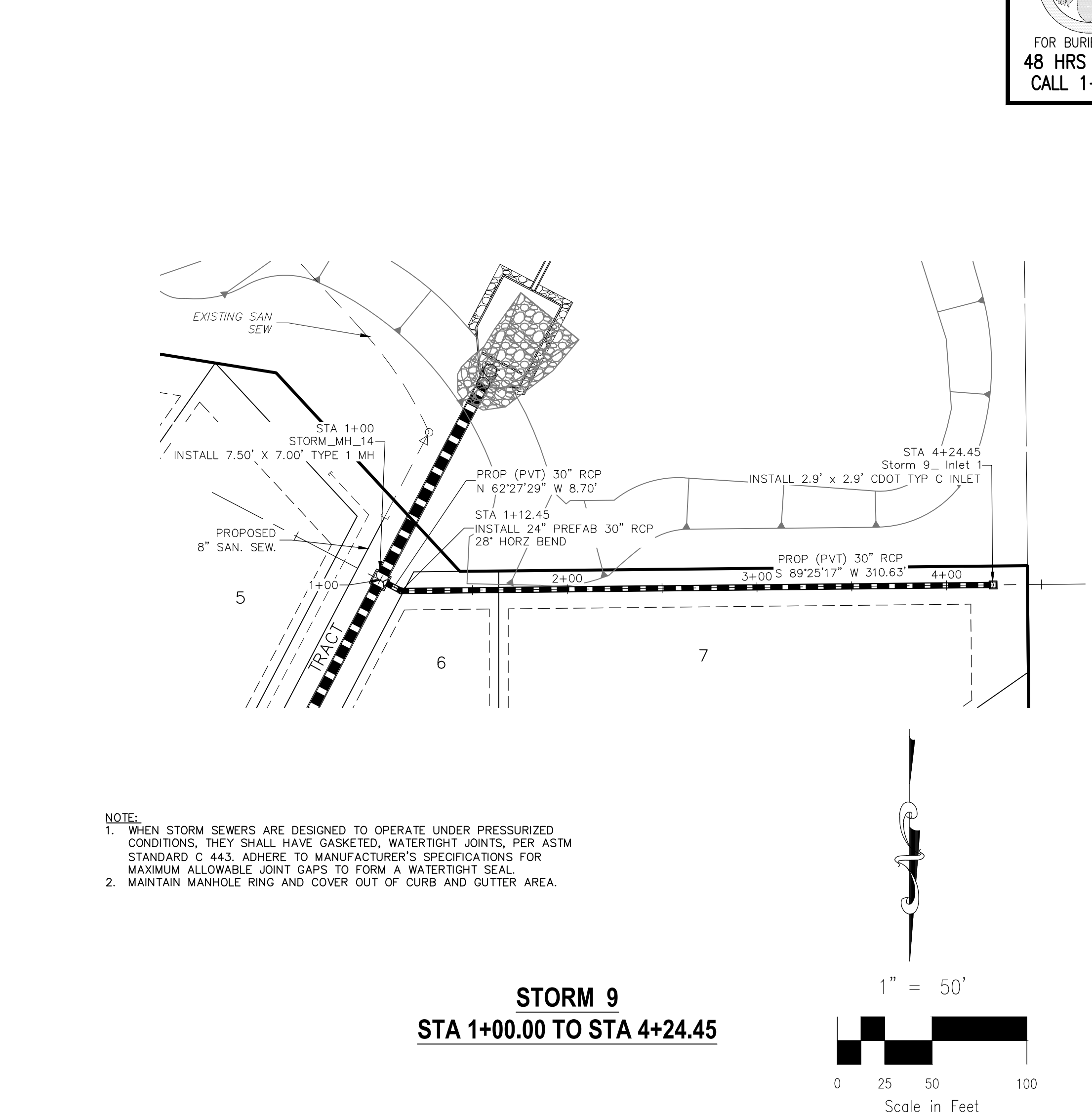
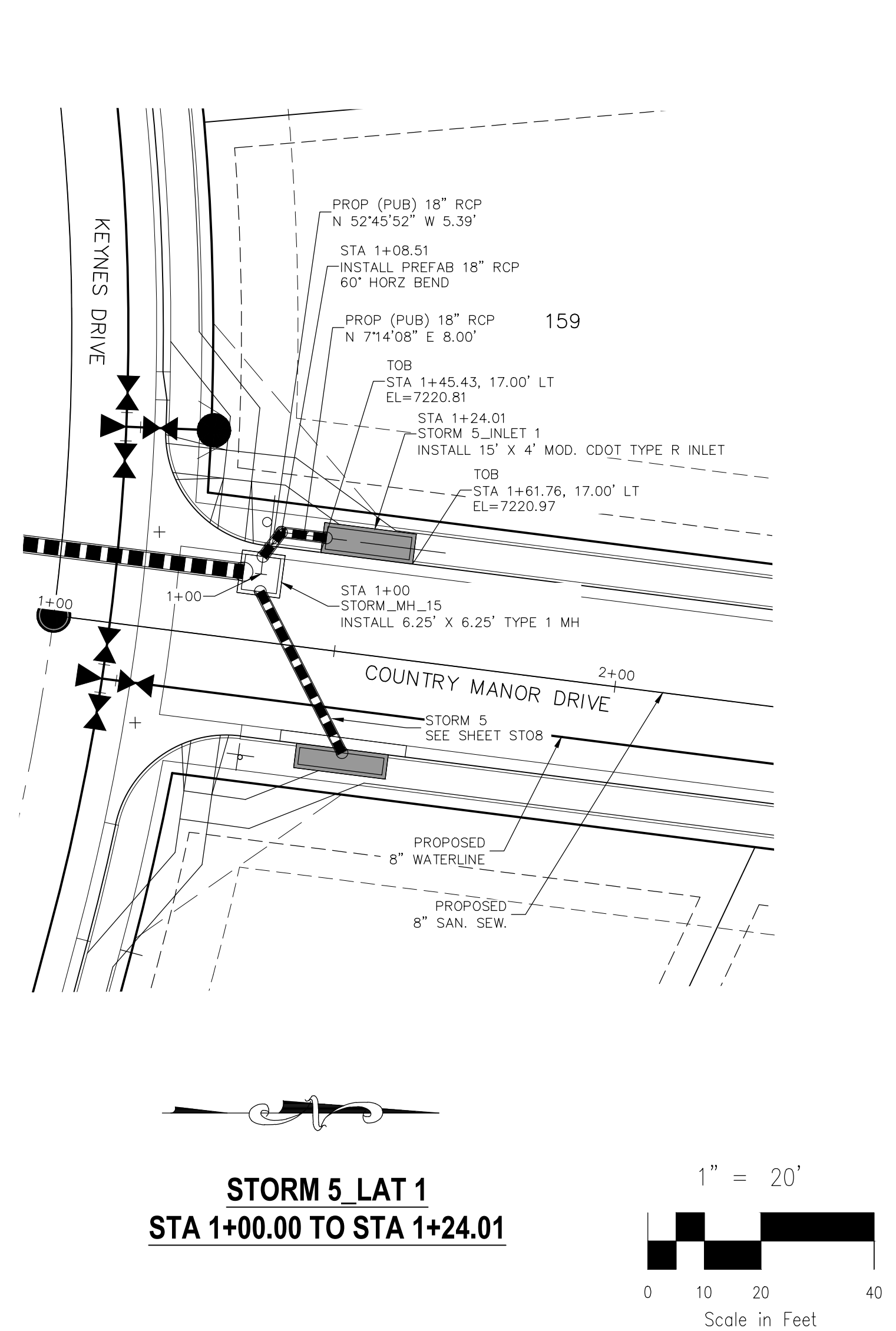
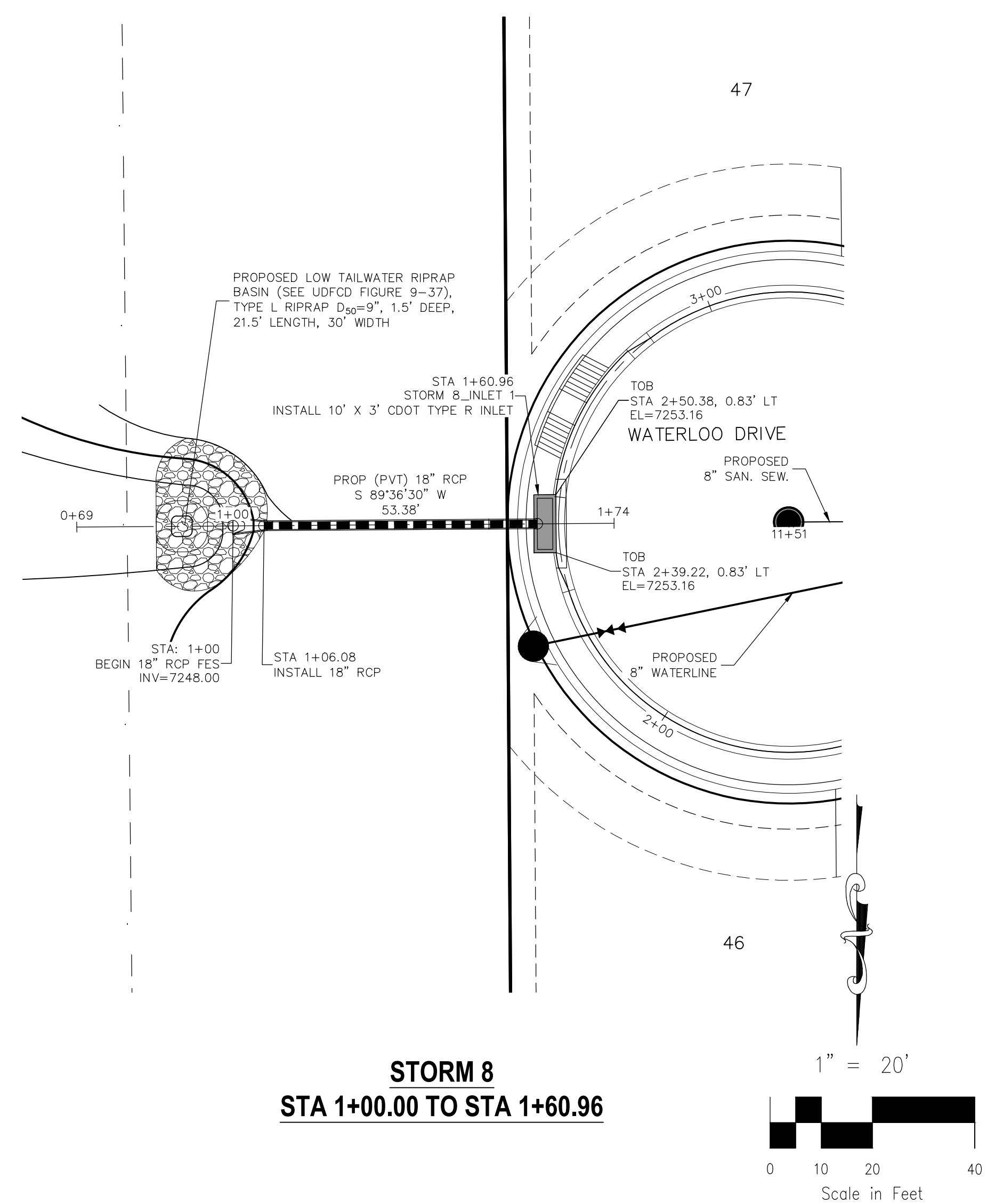
212 N. WABATCH AVE., STE 303
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

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

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

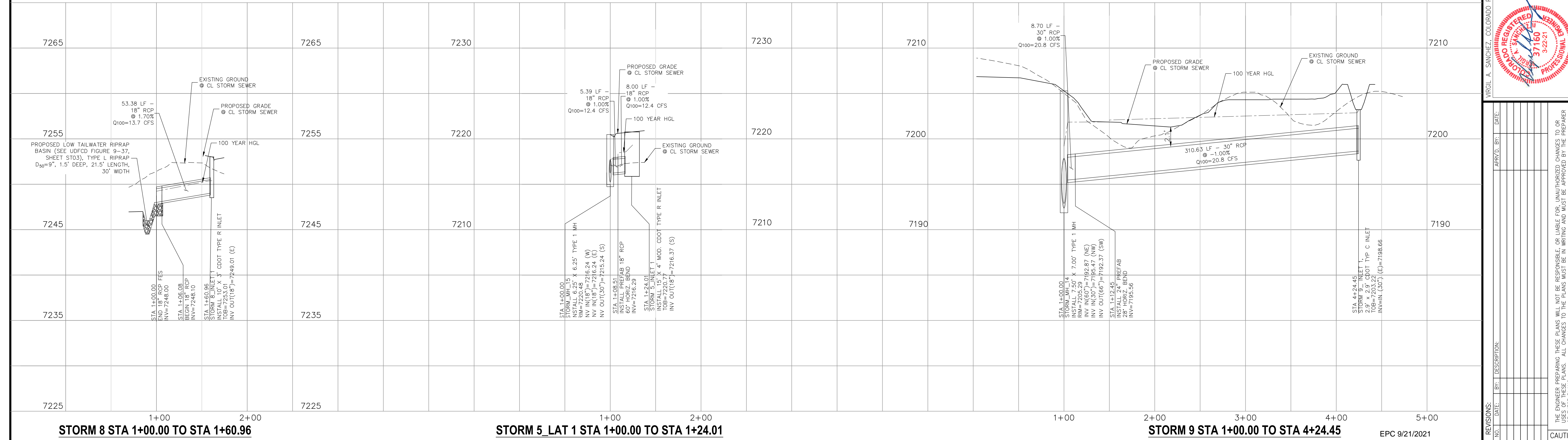
NO.	DATE	BY	DESCRIPTION

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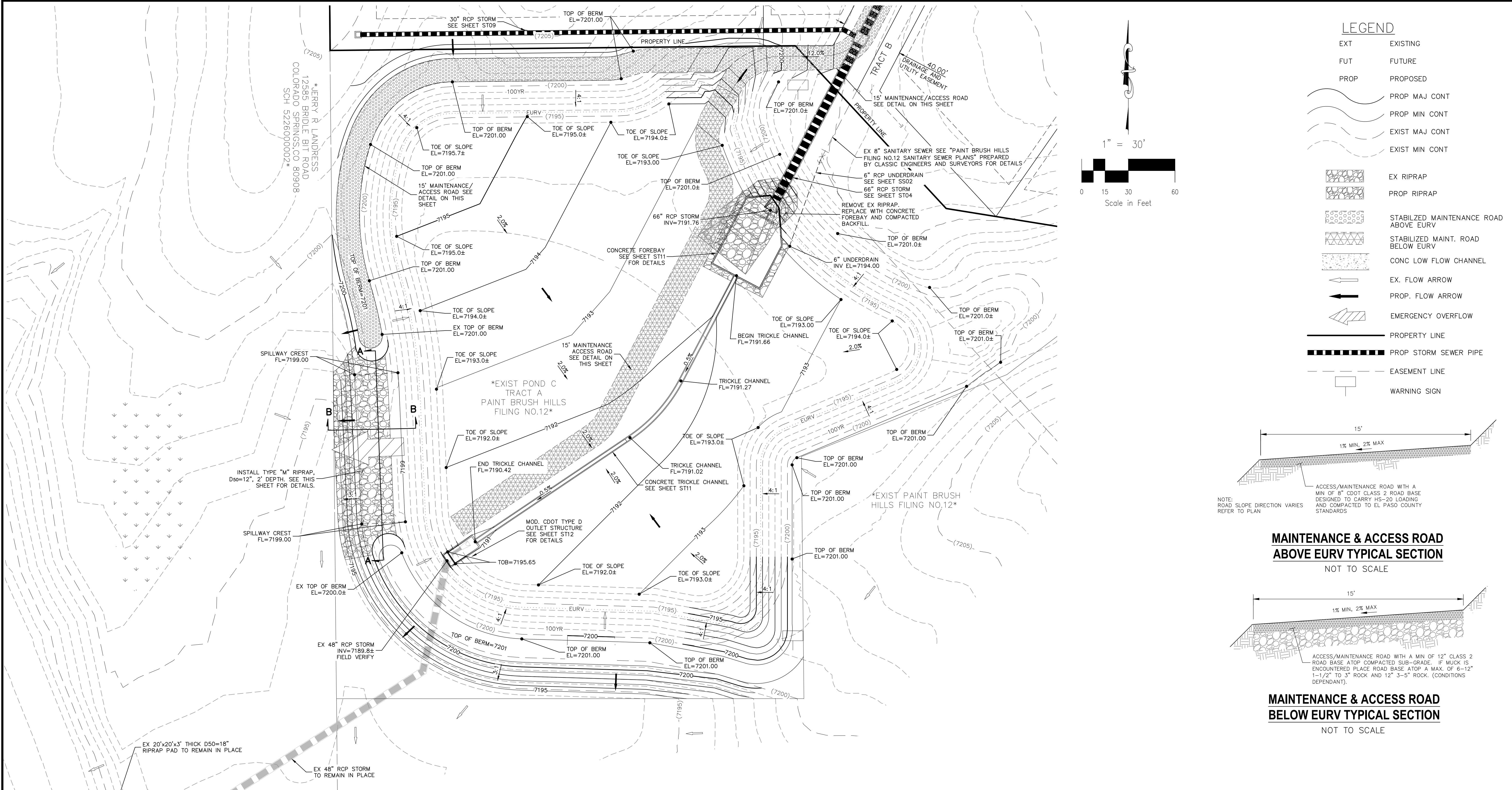
CAUTION



NOTE:
 1. WHEN STORM SEWERS ARE DESIGNED TO OPERATE UNDER PRESSURIZED CONDITIONS, THEY SHALL HAVE GASKETED, WATER-TIGHT JOINTS, PER ASTM STANDARD C 443. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM ALLOWABLE JOINT GAPS TO FORM A WATER-TIGHT SEAL.
 2. MAINTAIN MANHOLE RING AND COVER OUT OF CURB AND GUTTER AREA.

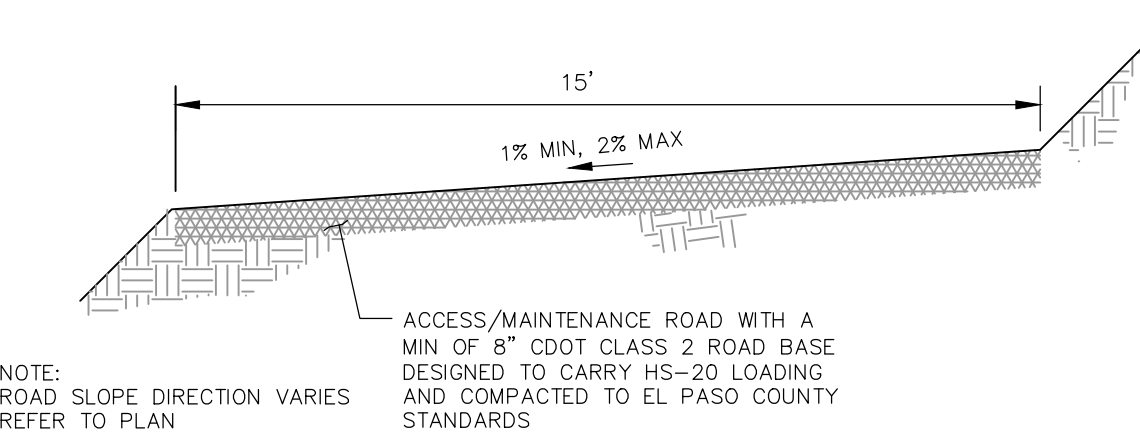
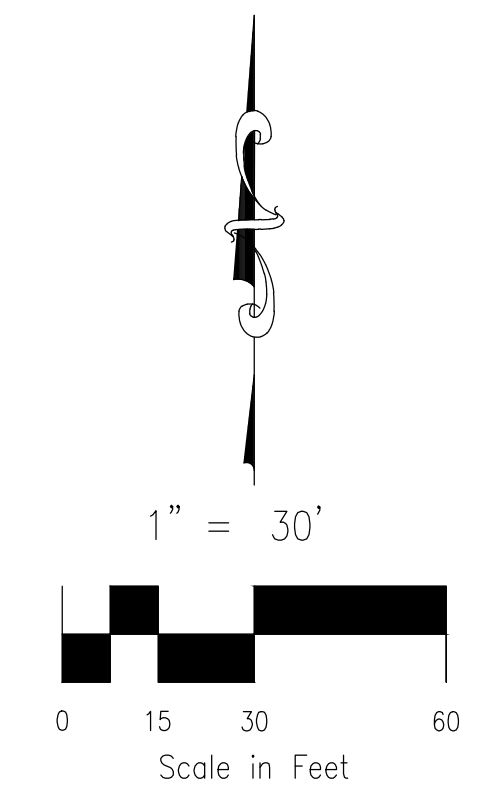


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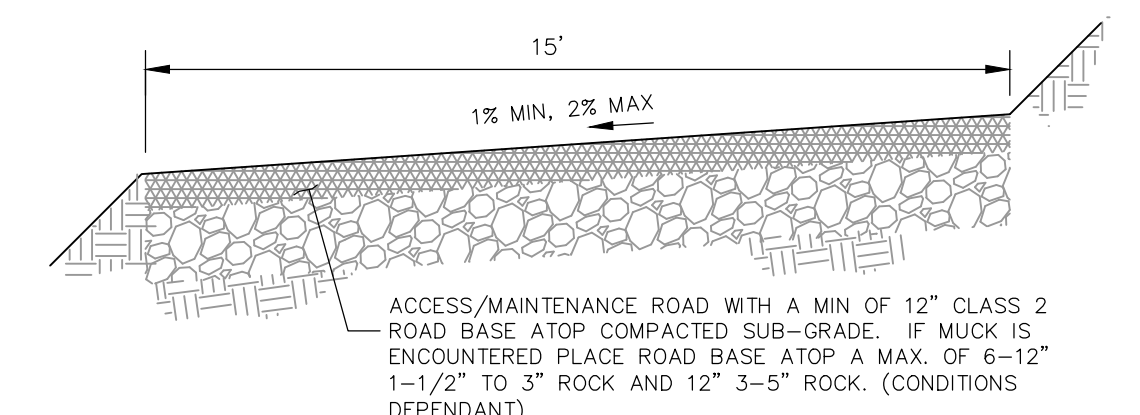


LEGEND

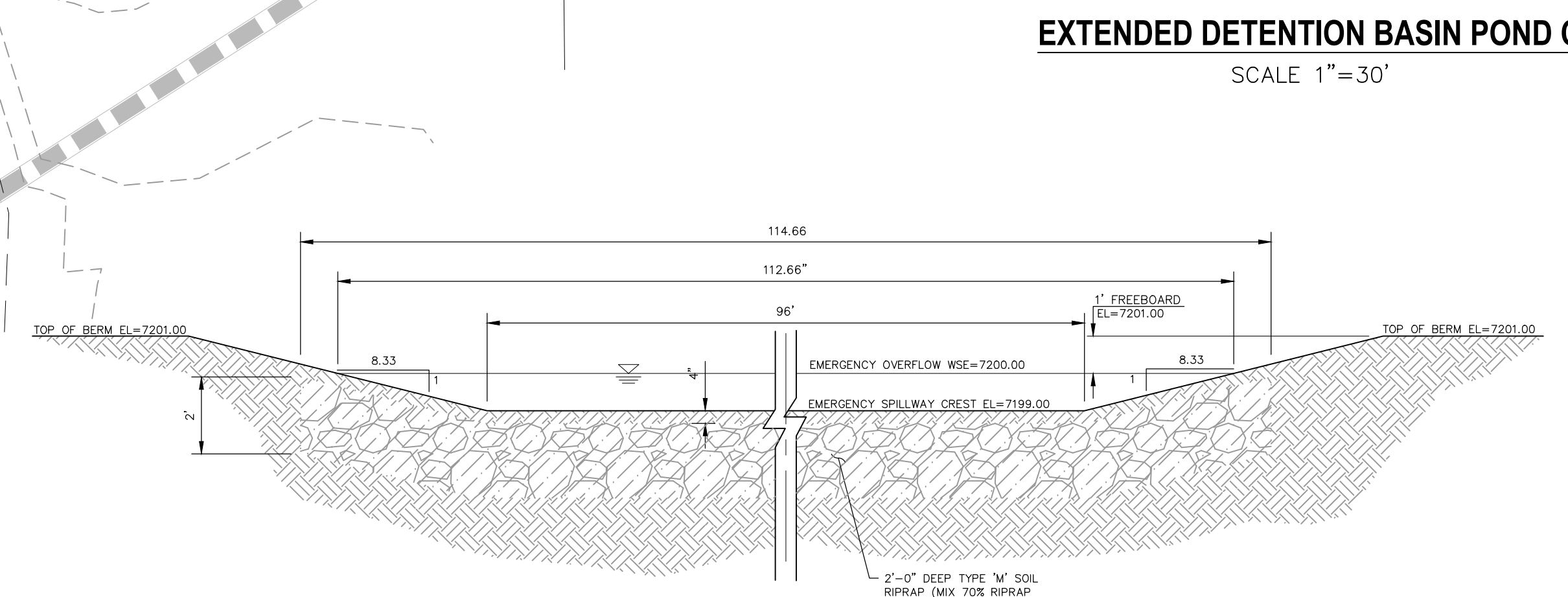
EXT	EXISTING
FUT	FUTURE
PROP	PROPOSED
(Wavy line)	PROP MAJ CONT
(Dashed wavy line)	PROP MIN CONT
(Solid wavy line)	EXIST MAJ CONT
(Dashed solid wavy line)	EXIST MIN CONT
(Stippled pattern)	EX RIPRAP
(Cross-hatched pattern)	PROP RIPRAP
(Stippled pattern above EURV)	STABILIZED MAINTENANCE ROAD ABOVE EURV
(Stippled pattern below EURV)	STABILIZED MAINT. ROAD BELOW EURV
(Dotted pattern)	CONC LOW FLOW CHANNEL
(Arrow with tail)	EX. FLOW ARROW
(Arrow)	PROP. FLOW ARROW
(Hatched pattern)	EMERGENCY OVERTFLOW
(Dashed line)	PROPERTY LINE
(Thick dashed line)	PROP STORM SEWER PIPE
(Thin dashed line)	EASEMENT LINE
(Square with X)	WARNING SIGN



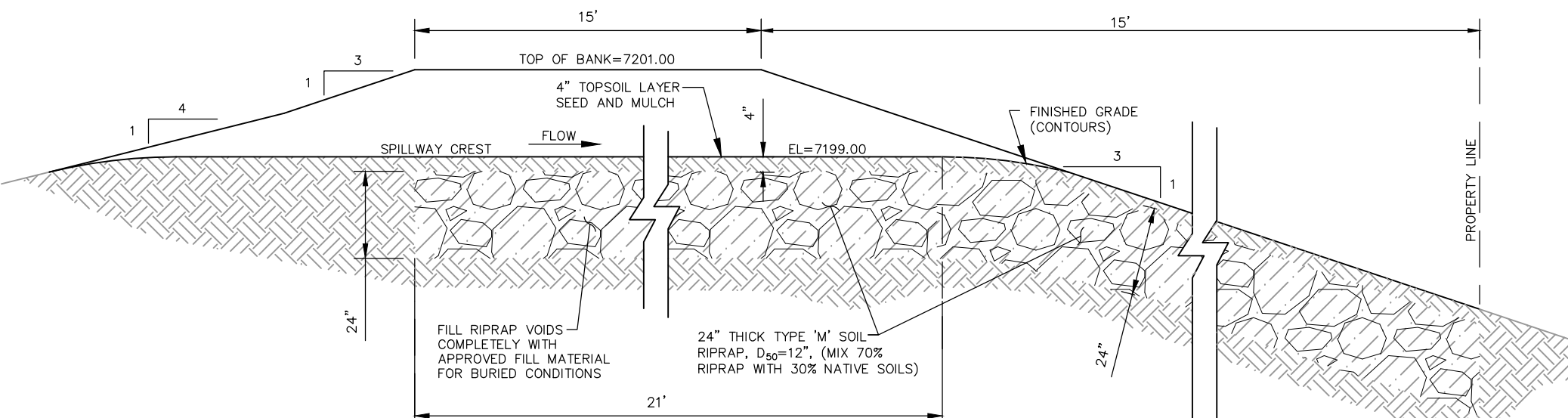
MAINTENANCE & ACCESS ROAD ABOVE EURV TYPICAL SECTION
NOT TO SCALE



MAINTENANCE & ACCESS ROAD BELOW EURV TYPICAL SECTION
NOT TO SCALE



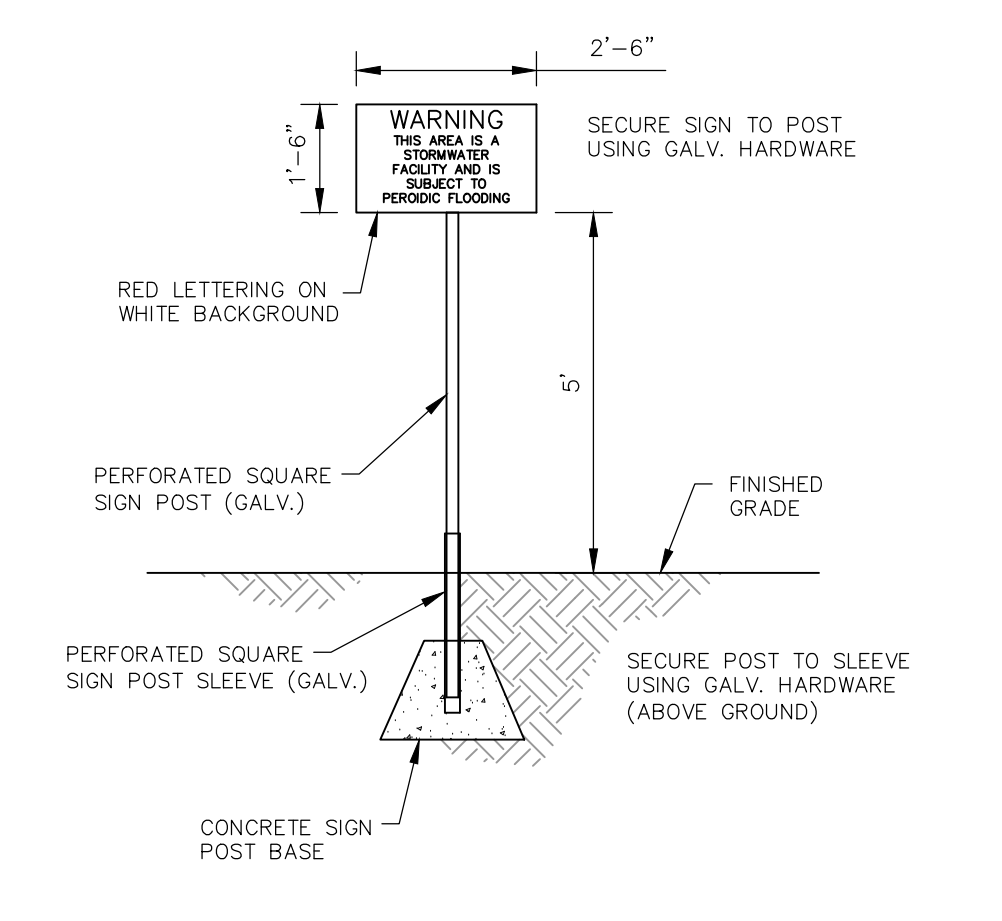
SECTION A-A



SECTION B-B

EXTENDED DETENTION BASIN POND C
SCALE 1"=30'

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. 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.

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

REGISTERED PROFESSIONAL ENGINEER
3-22-21

REVISIONS:

NO.	DATE	BY	DESCRIPTION

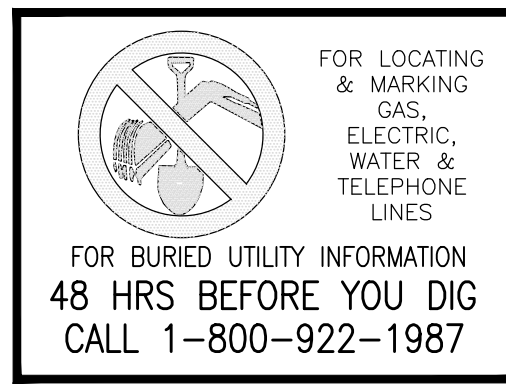
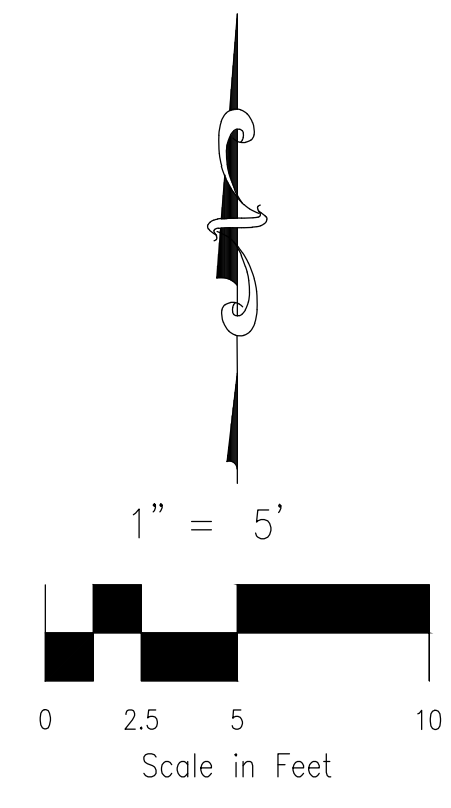
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CAUTION

EPC 9/21/2021

File: C:\Users\jprince\Documents\100144-PBH 14\Fig\Contl_Dwg\System\ST10.dwg PlotStamp: 3/19/2021 2:04 PM

15' ACCESS ROAD. SEE SHEET ST10 FOR DETAILS.



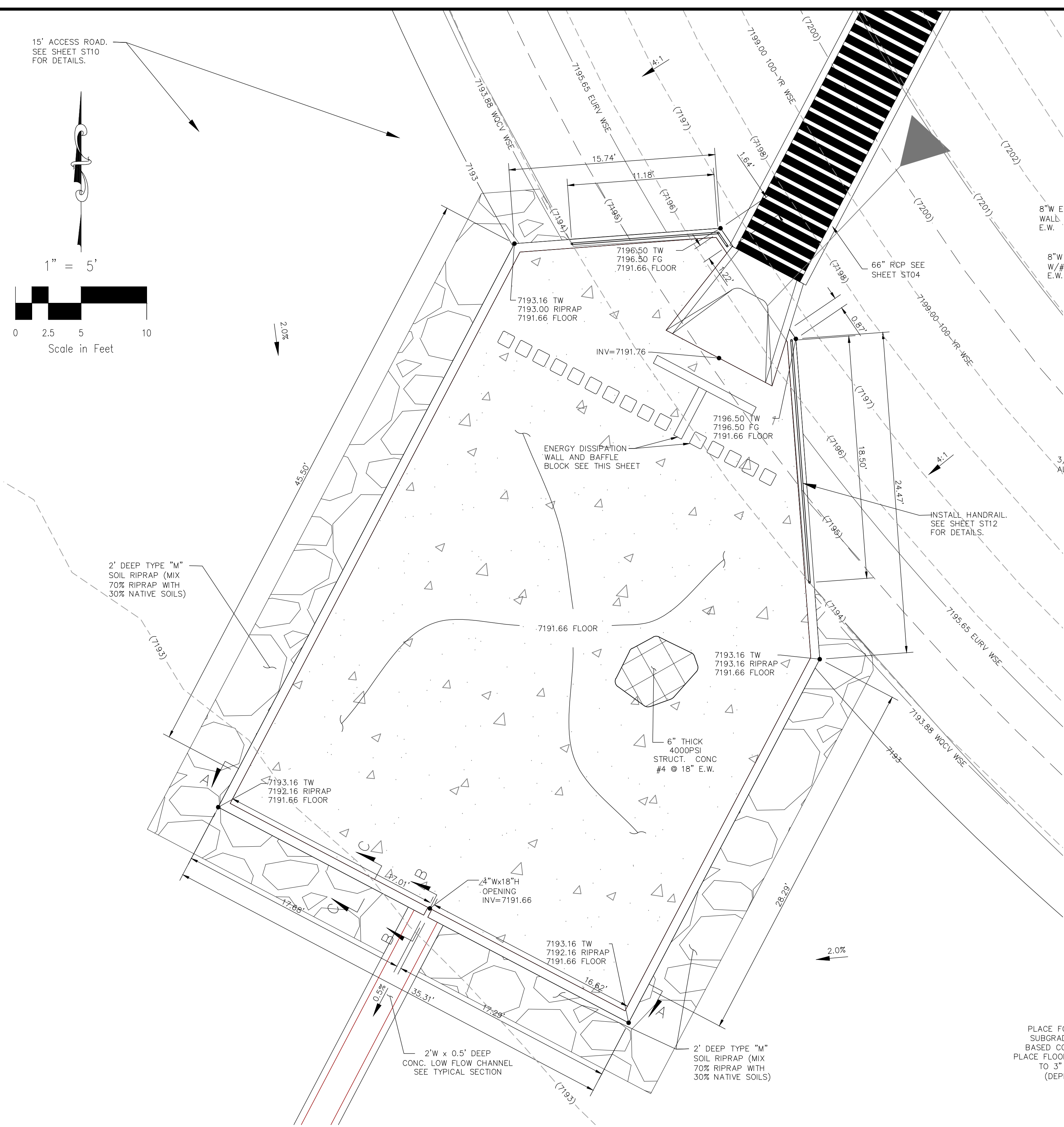
PAIN BRUSH HILLS FILING NO. 14
EXTENDED DET. POND C FOREBAY DETAILS
PROJECT NO. 10-014
DATE: 03/19/21
SCALE: 1/4" = 1'-0"
DESIGNED BY: GT
DRAWN BY: CMN
CHECKED BY: VAS
SHEET 29 OF 30
ST11

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

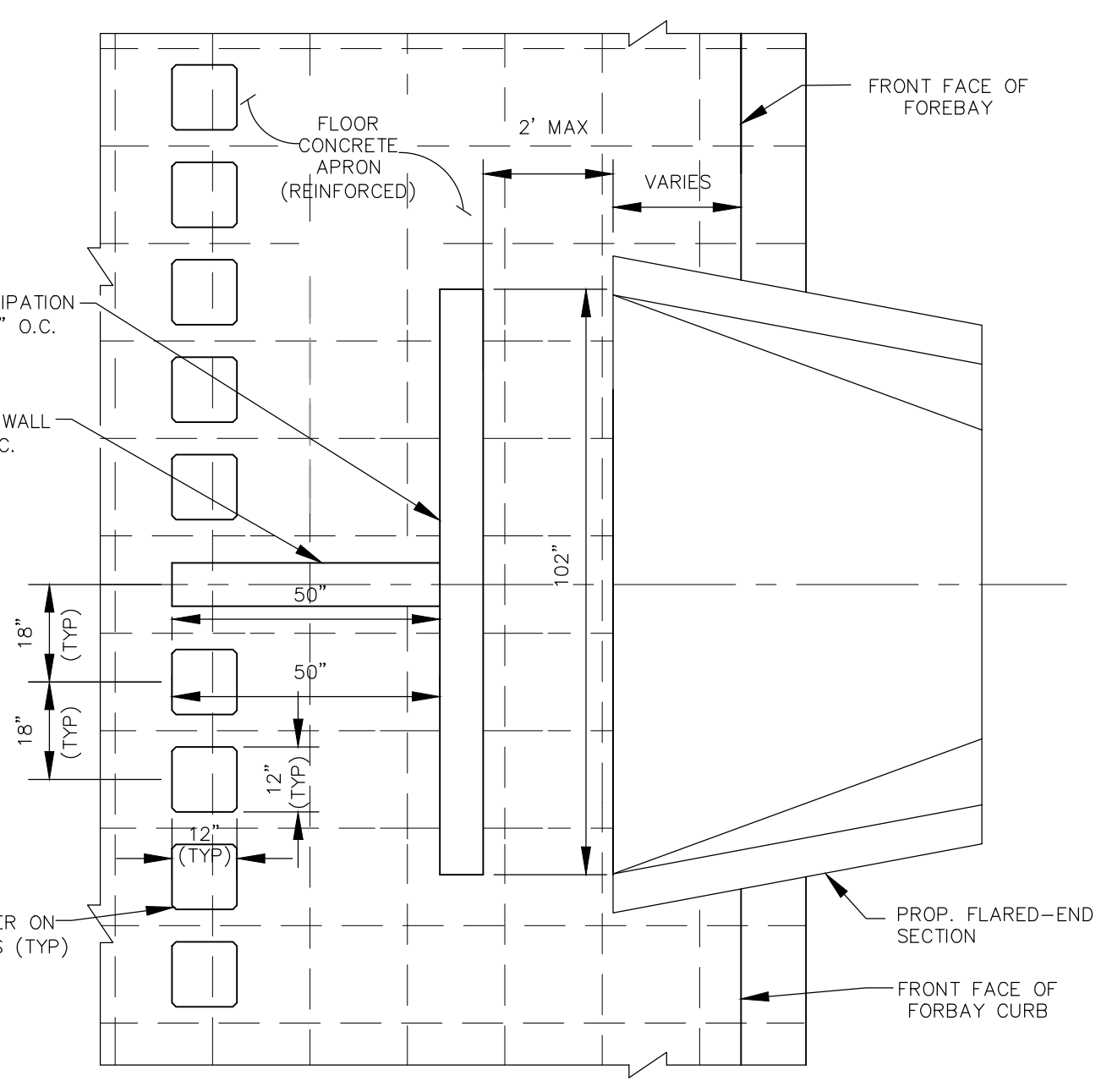
CIVIL CONSULTANTS, INC.

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

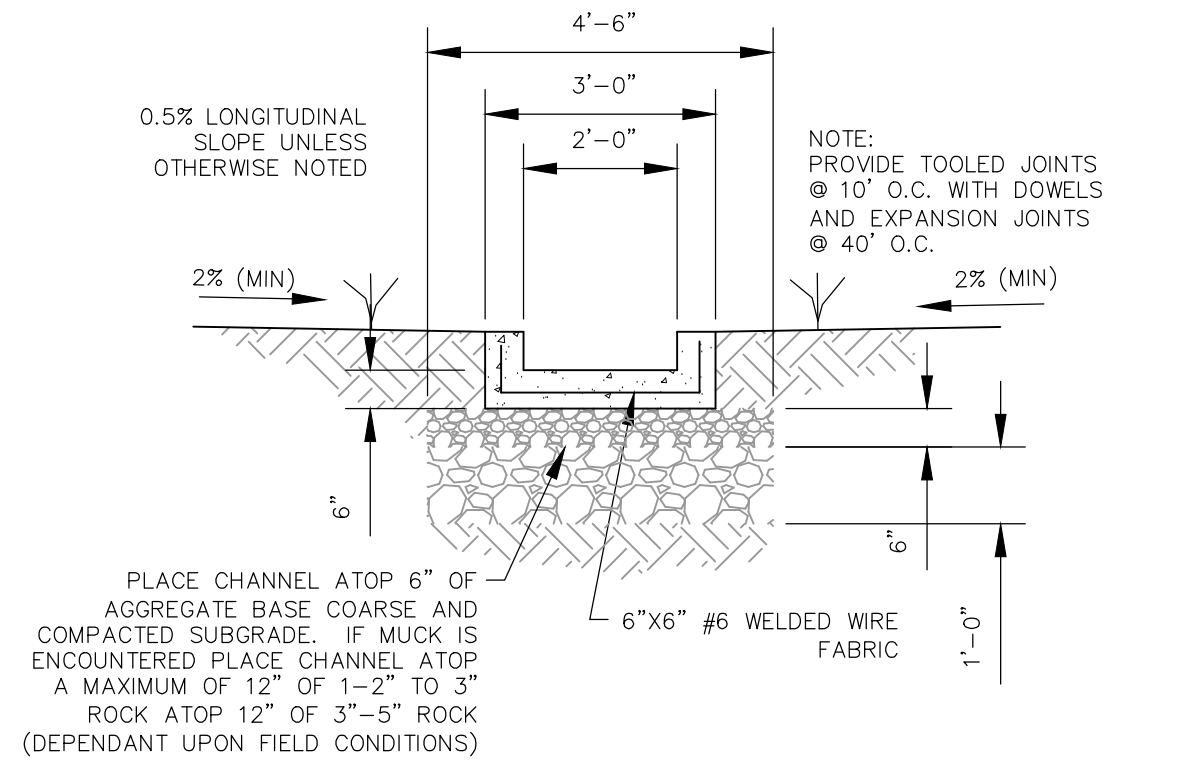
Table with columns for REVISIONS (NO., DATE, BY, DESCRIPTION), APPROVED BY, DATE, and a CAUTION note at the bottom.



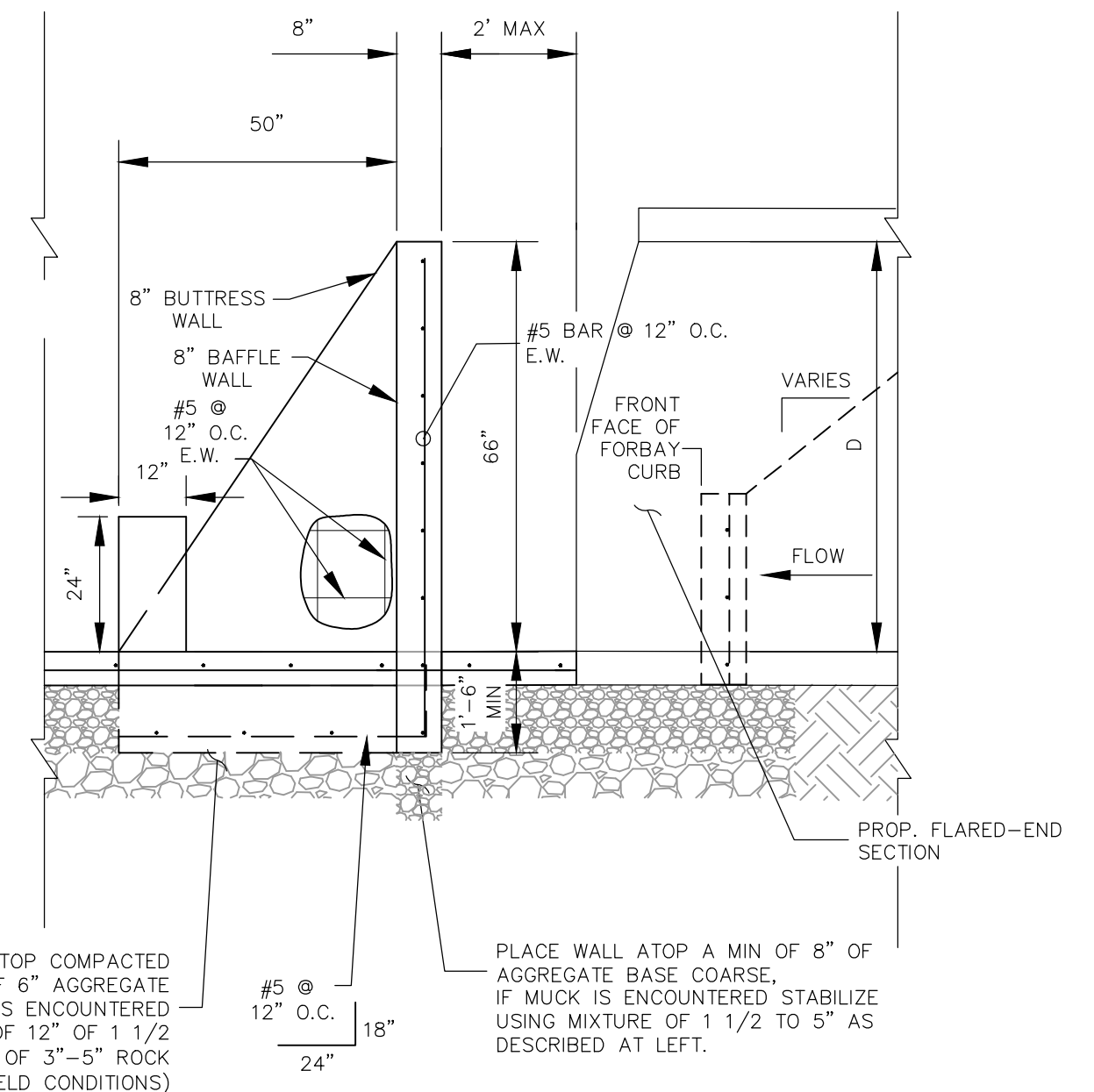
EXTENDED DETENTION BASIN POND C FOREBAY
NOT TO SCALE



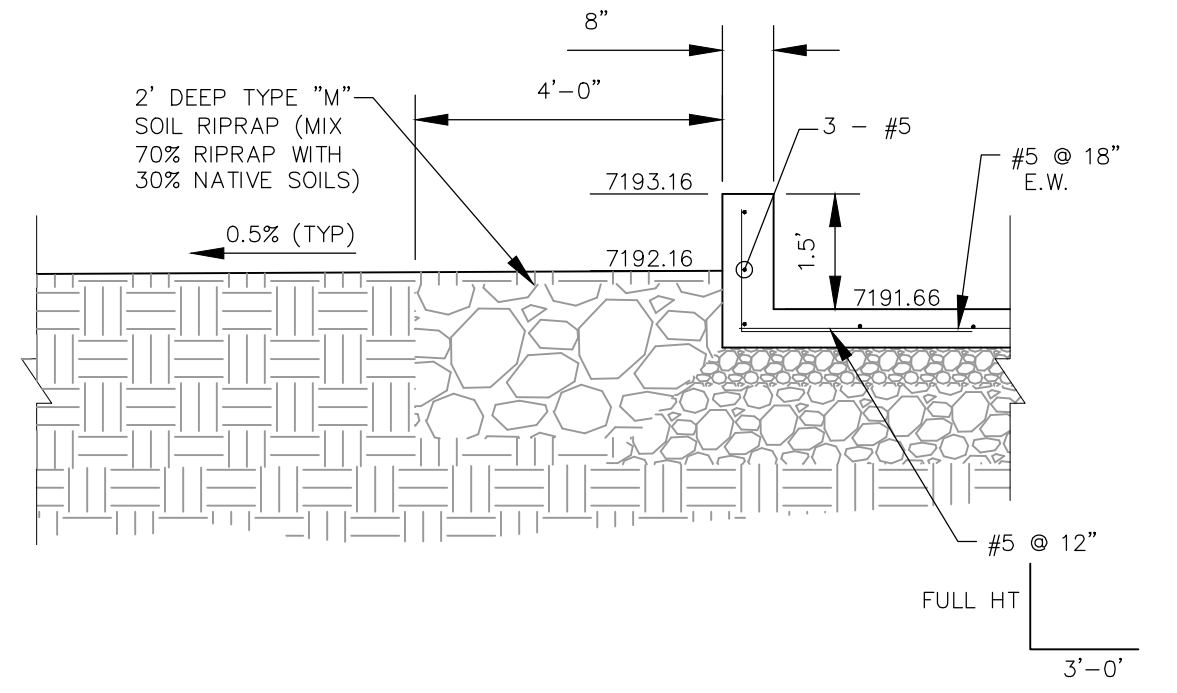
ENERGY DISSIPATION DETAILS
NOT TO SCALE



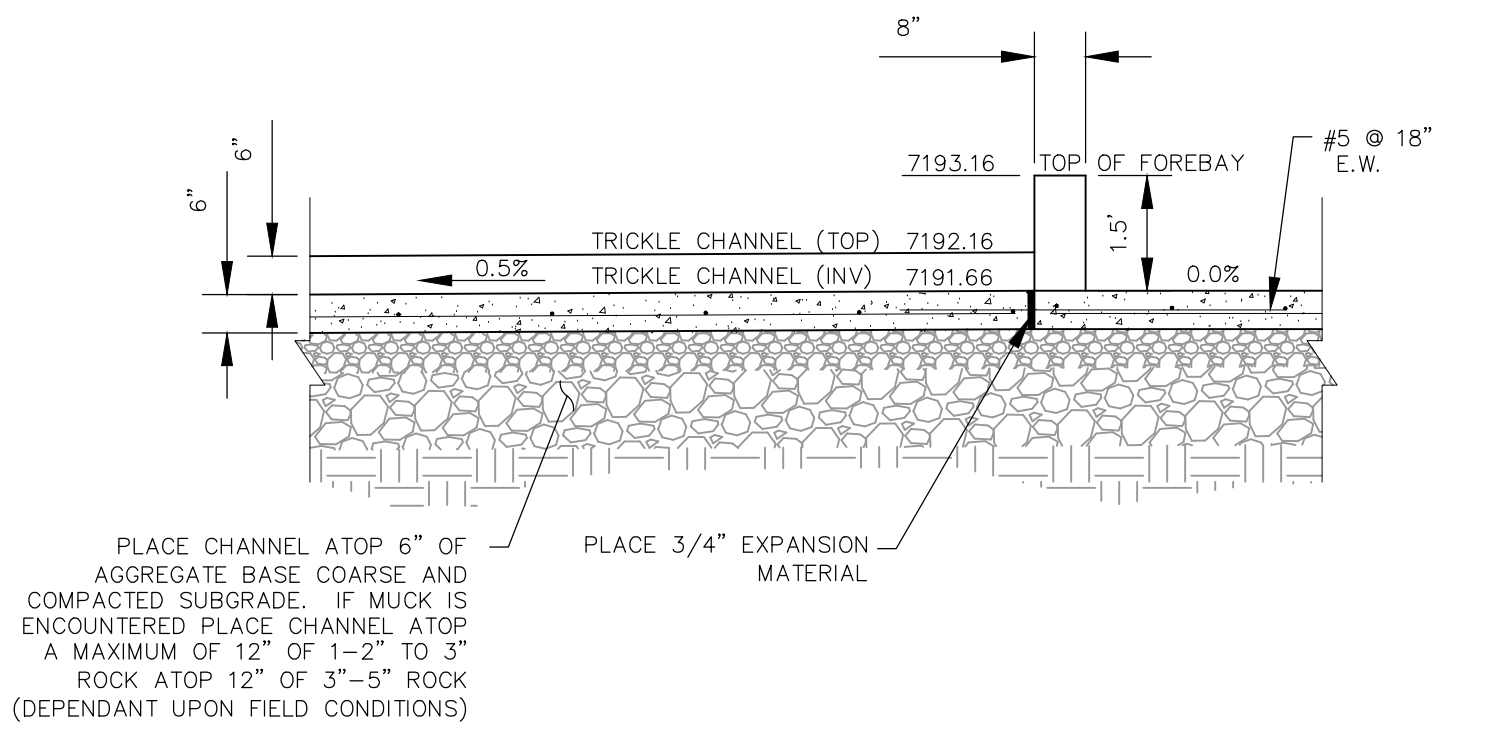
LOW FLOW CHANNEL TYPICAL SECTION
NOT TO SCALE



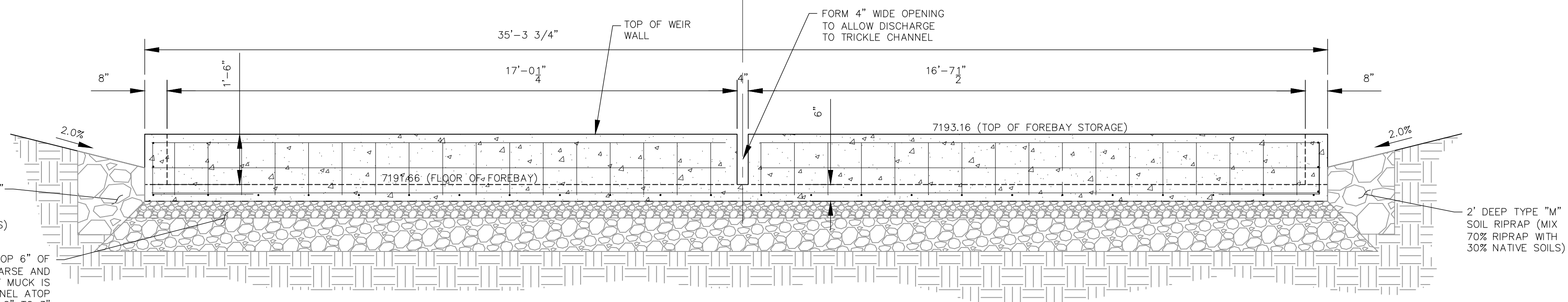
ENERGY DISSIPATION DETAILS
NOT TO SCALE



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

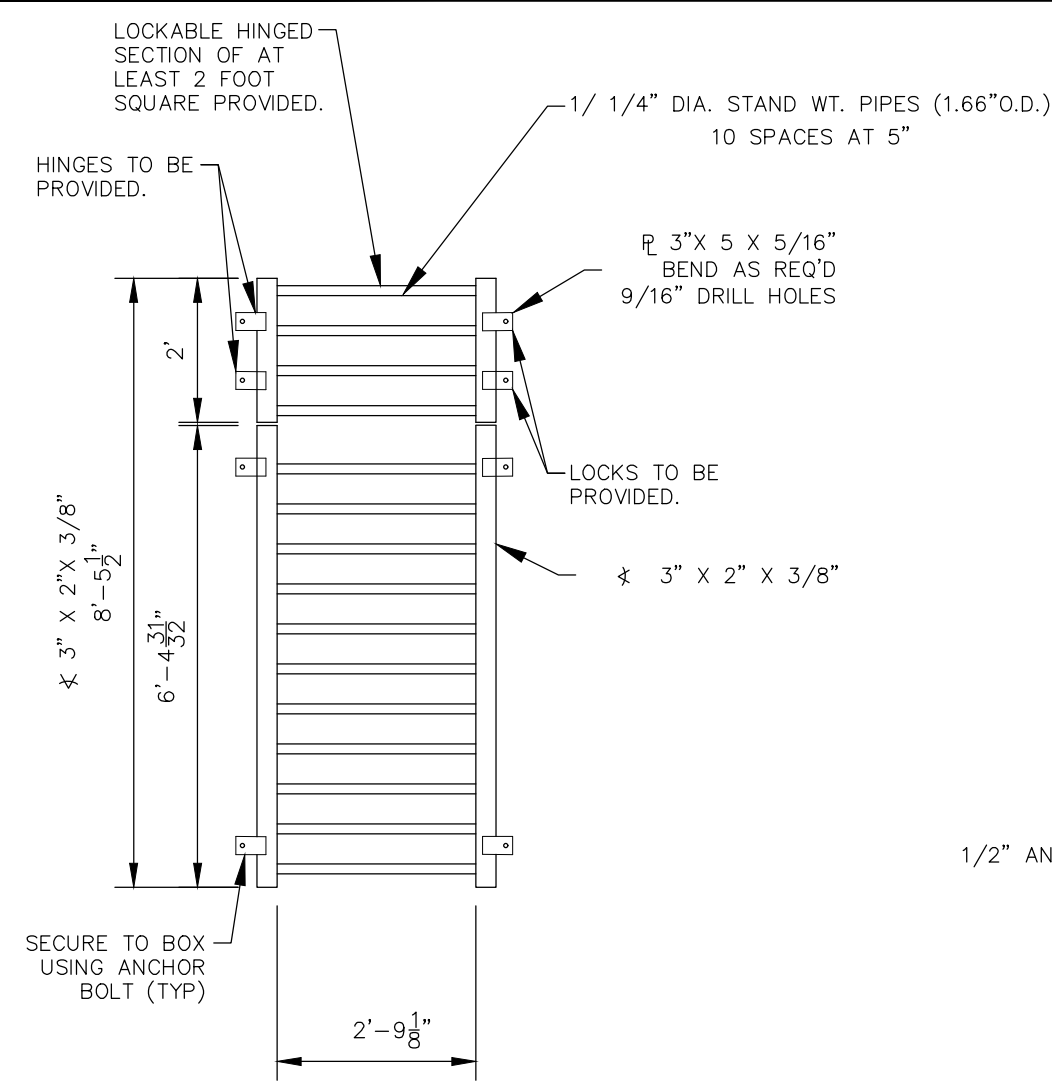


LOW FLOW CHANNEL POND C SECTION B-B
NOT TO SCALE

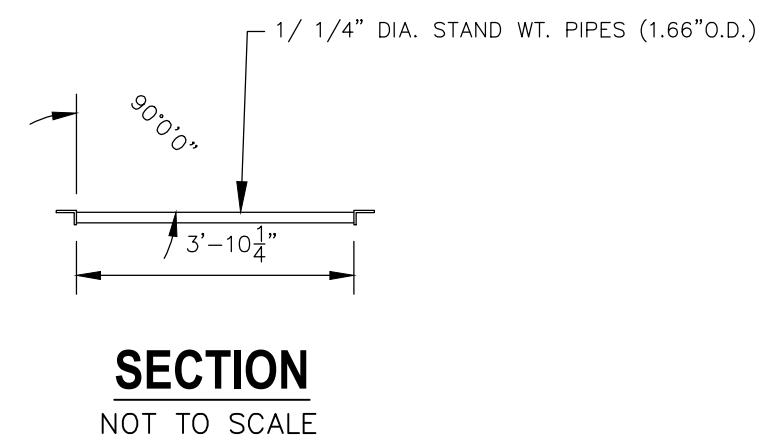


NORTH FOREBAY FRONT WALL W/NOTCH SECTION A-A
NOT TO SCALE

File: C:\Users\oprice\Documents\100144-PBH-14\Draw\Coord\Draw\st11.dwg PlotStamp: 3/19/2021 2:05 PM

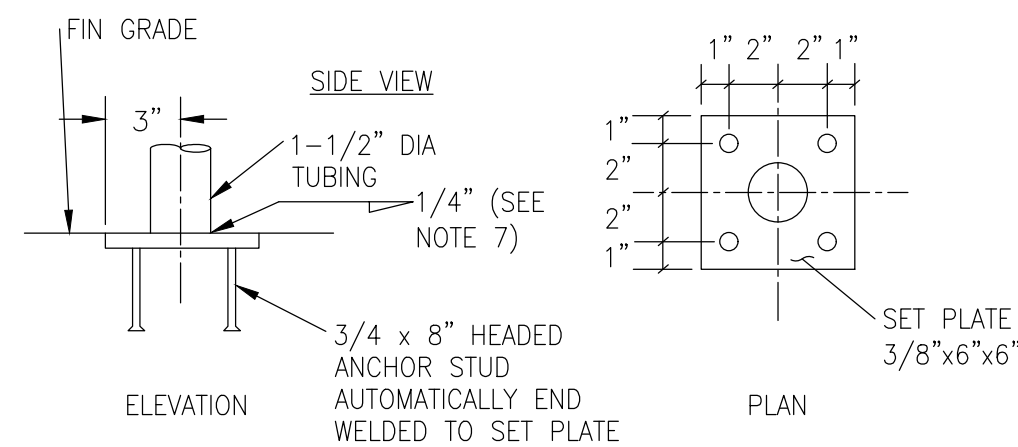


GRATE PLAN
NOT TO SCALE



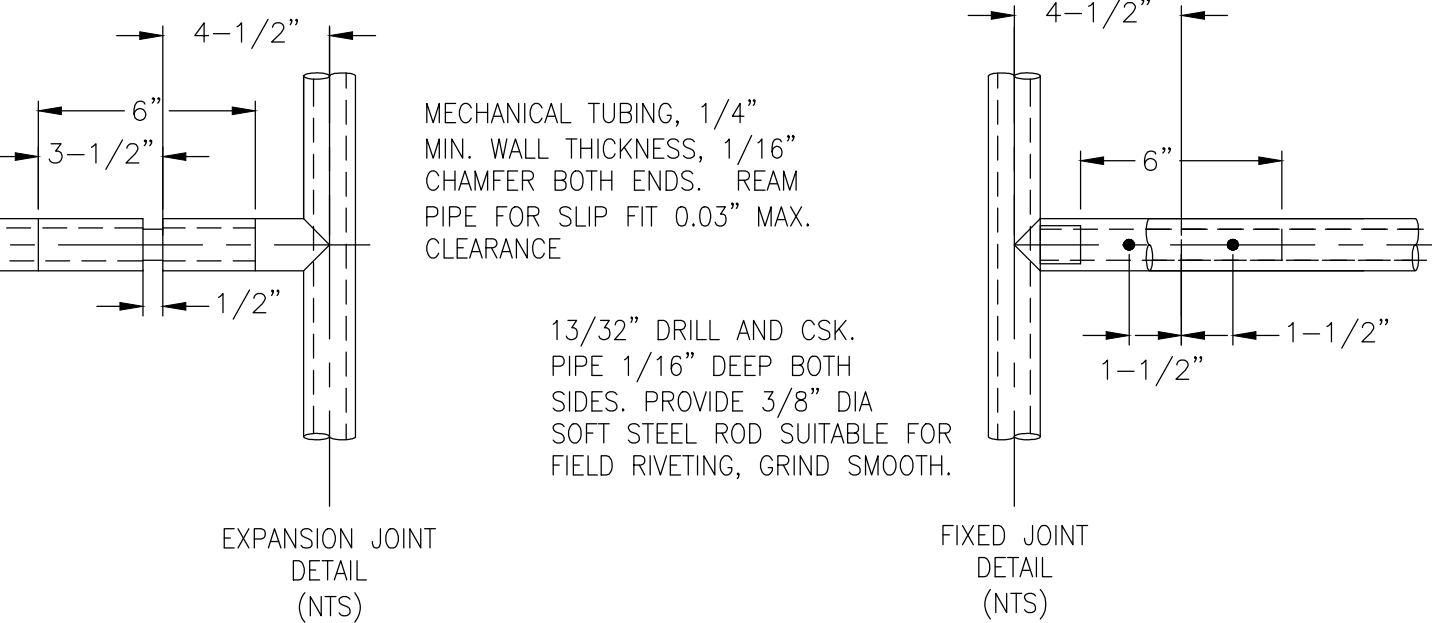
GRATE DETAIL "A"

GRATE DETAIL "B"

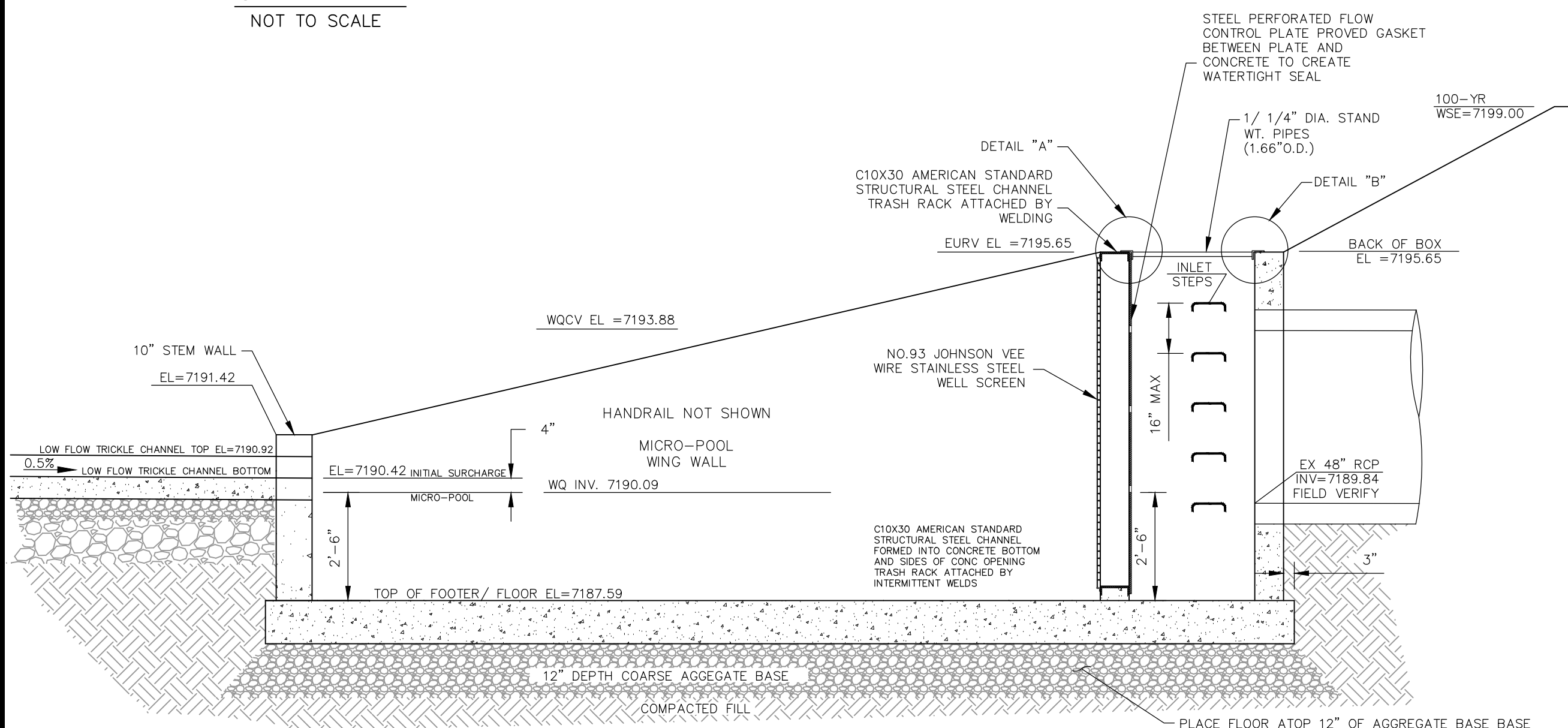
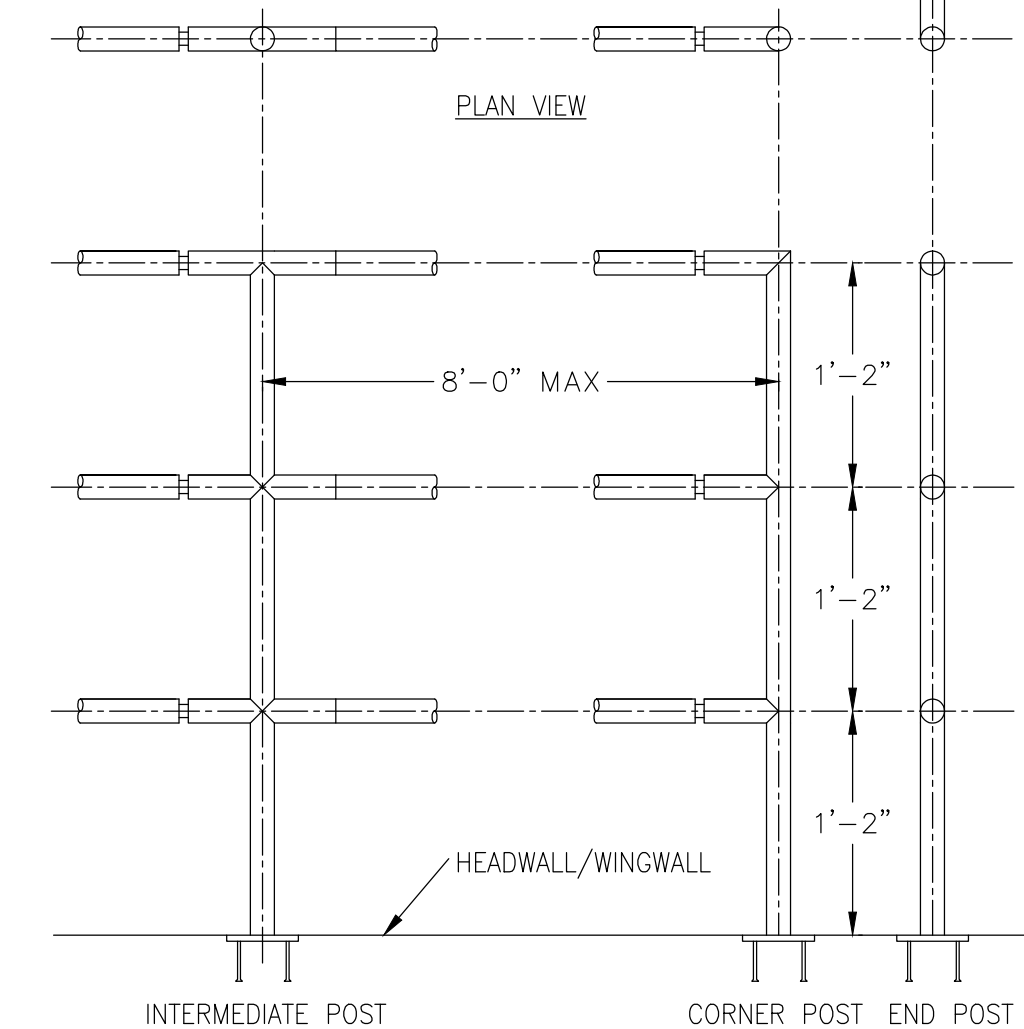


SET PLATE ANCHOR DETAILS
(NTS)

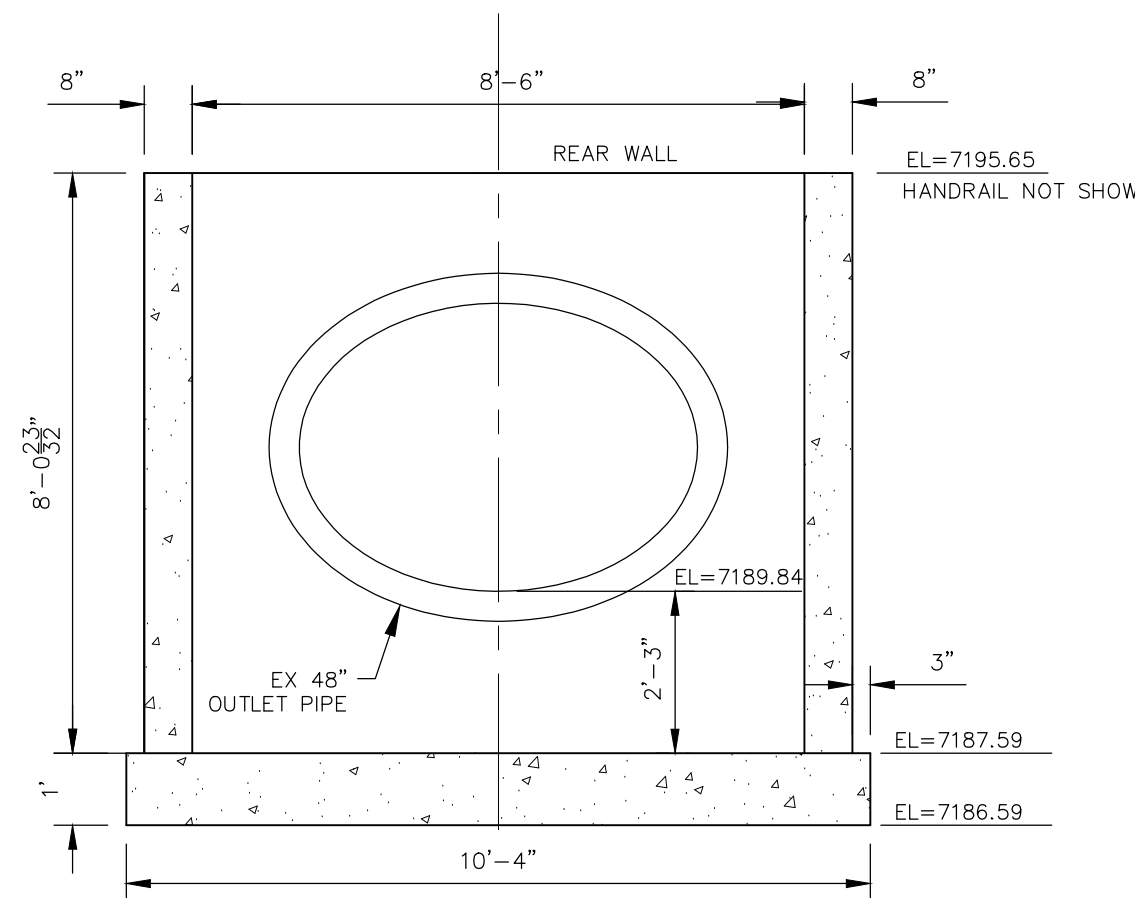
- 1) WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- 2) DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
- 3) HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
- 4) RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF THEE TOP OF WALLS.
- 5) ALL RAILS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.



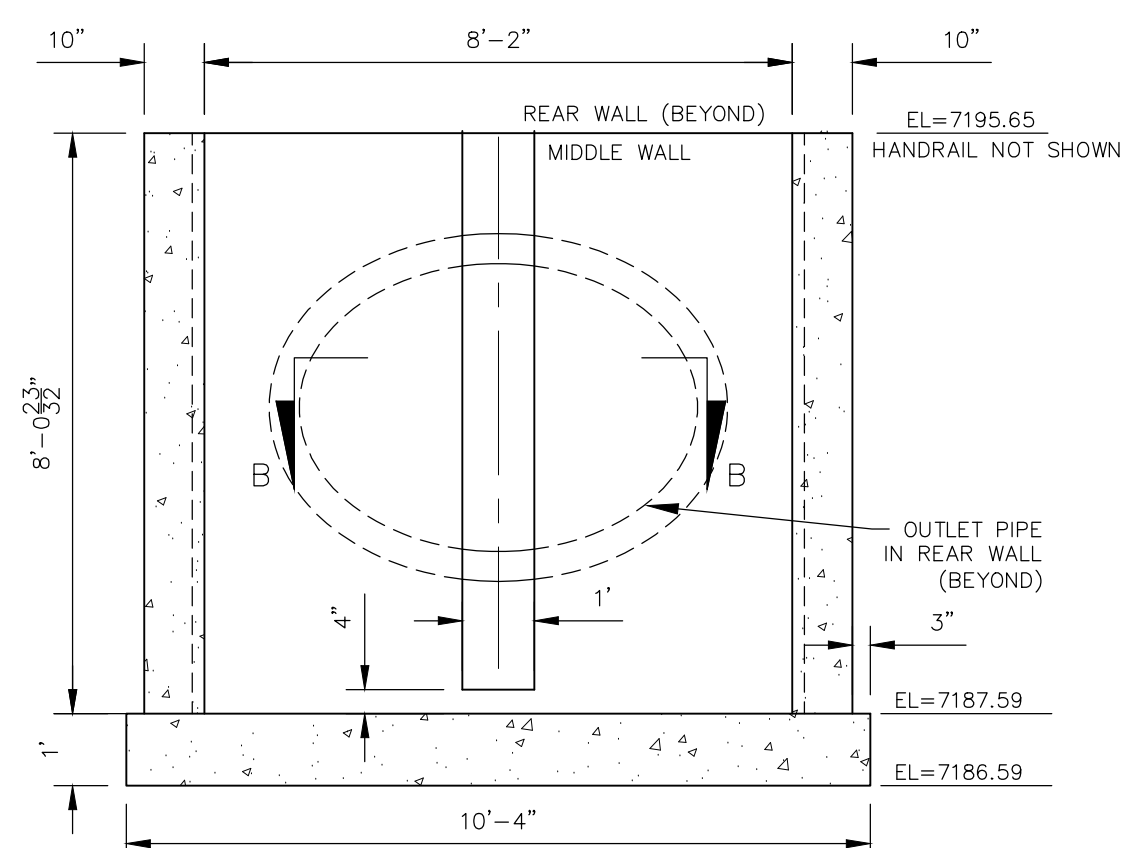
HANDRAIL ASSEMBLY DETAILS
NOT TO SCALE



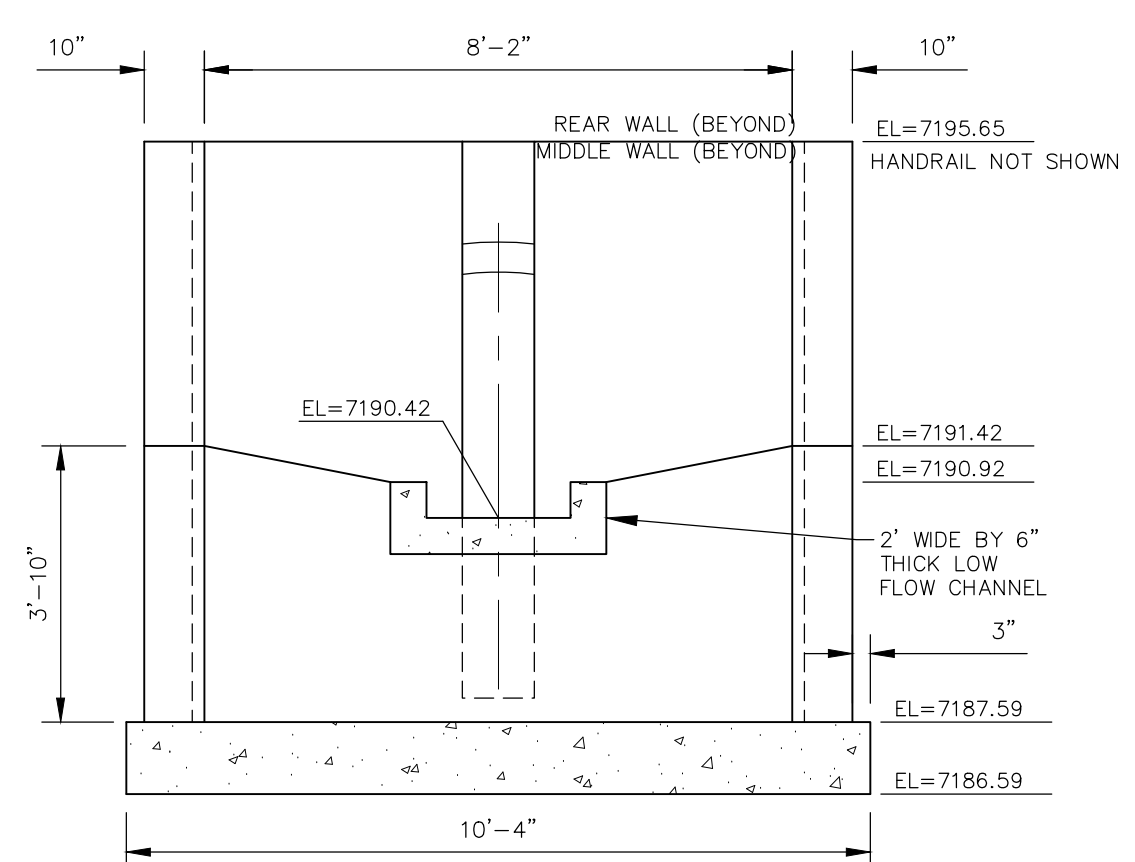
SECTION A-A
NOT TO SCALE



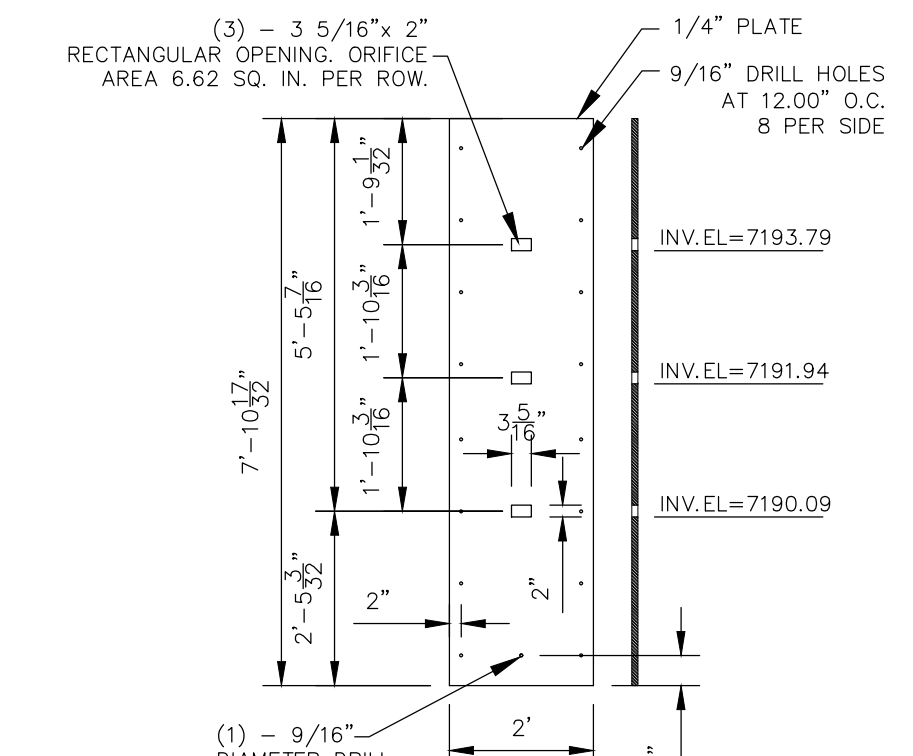
REAR WALL
NOT TO SCALE



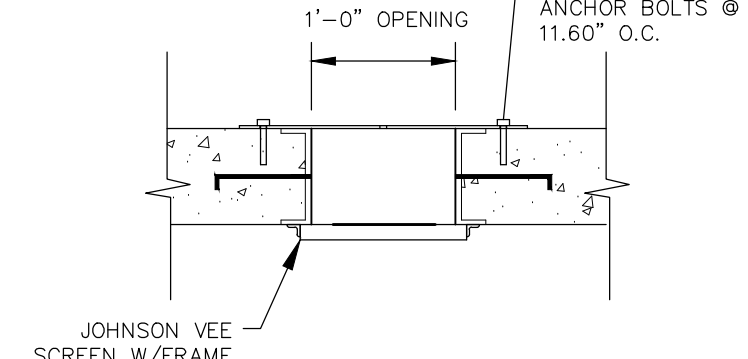
MIDDLE WALL
NOT TO SCALE



FRONT/STEM WALL
NOT TO SCALE

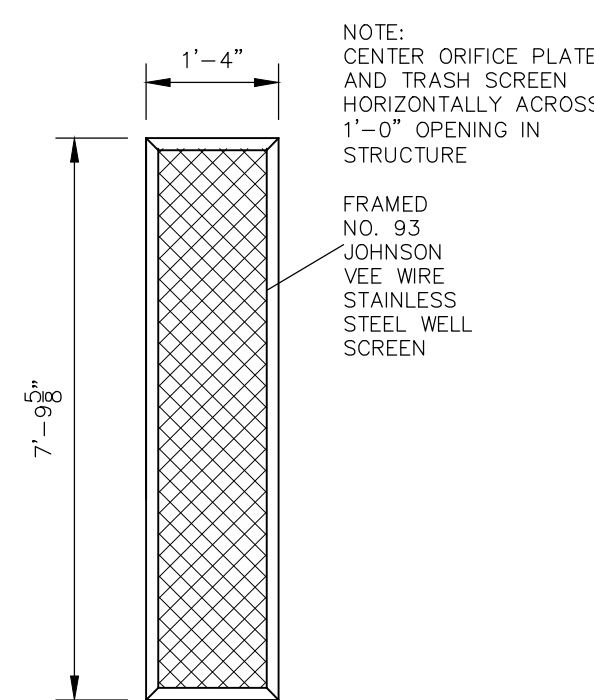


ORIFICE PLATE
NOT TO SCALE

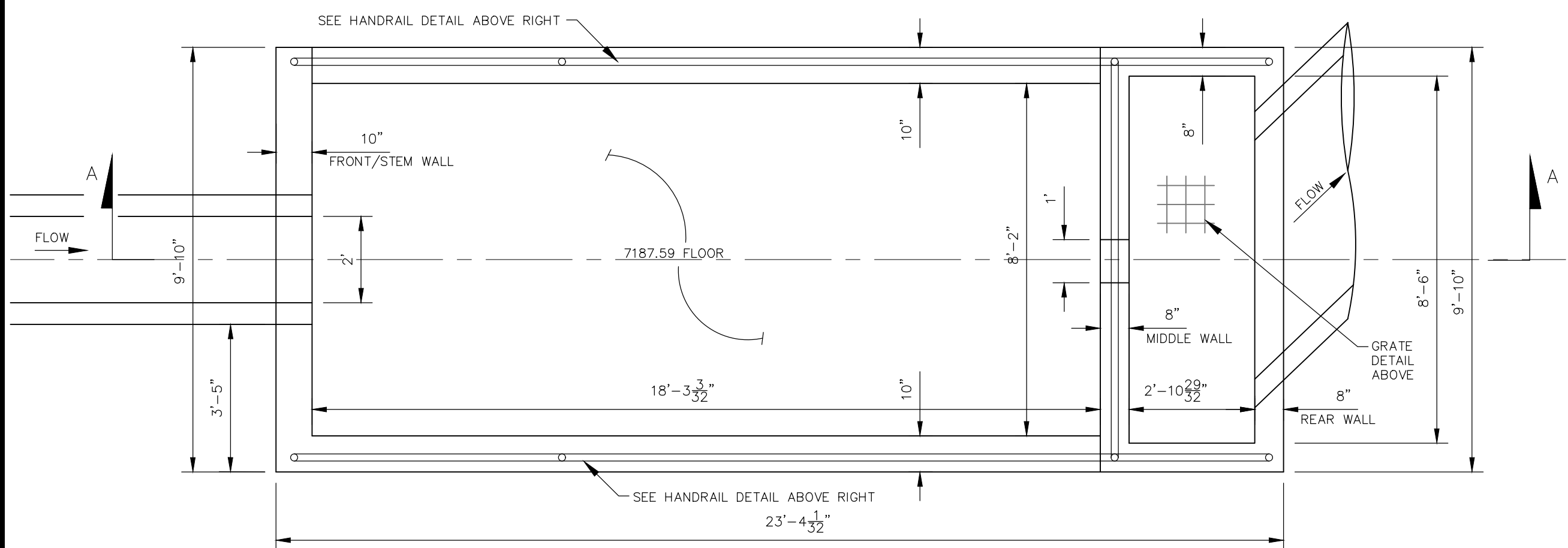


SECTION B-B
NOT TO SCALE

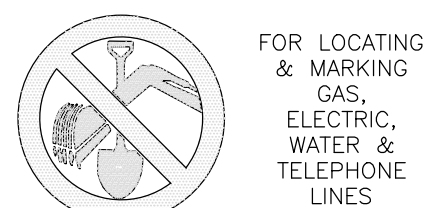
NOTE:
ALL GRATES, SCREENS, IMBEDS AND FASTENERS SHALL BE FABRICATED USING GALVANIZED STEEL, UNLESS OTHERWISE NOTED.
ALL GRATE DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION. ALL GRATE MATERIAL SHALL BE GALVANIZED.



TRASH SCREEN DETAIL
NOT TO SCALE



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

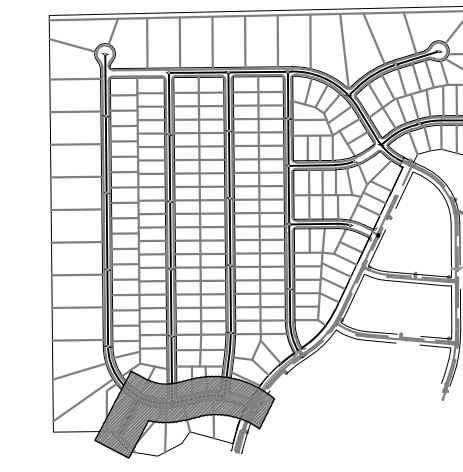
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CAUTION

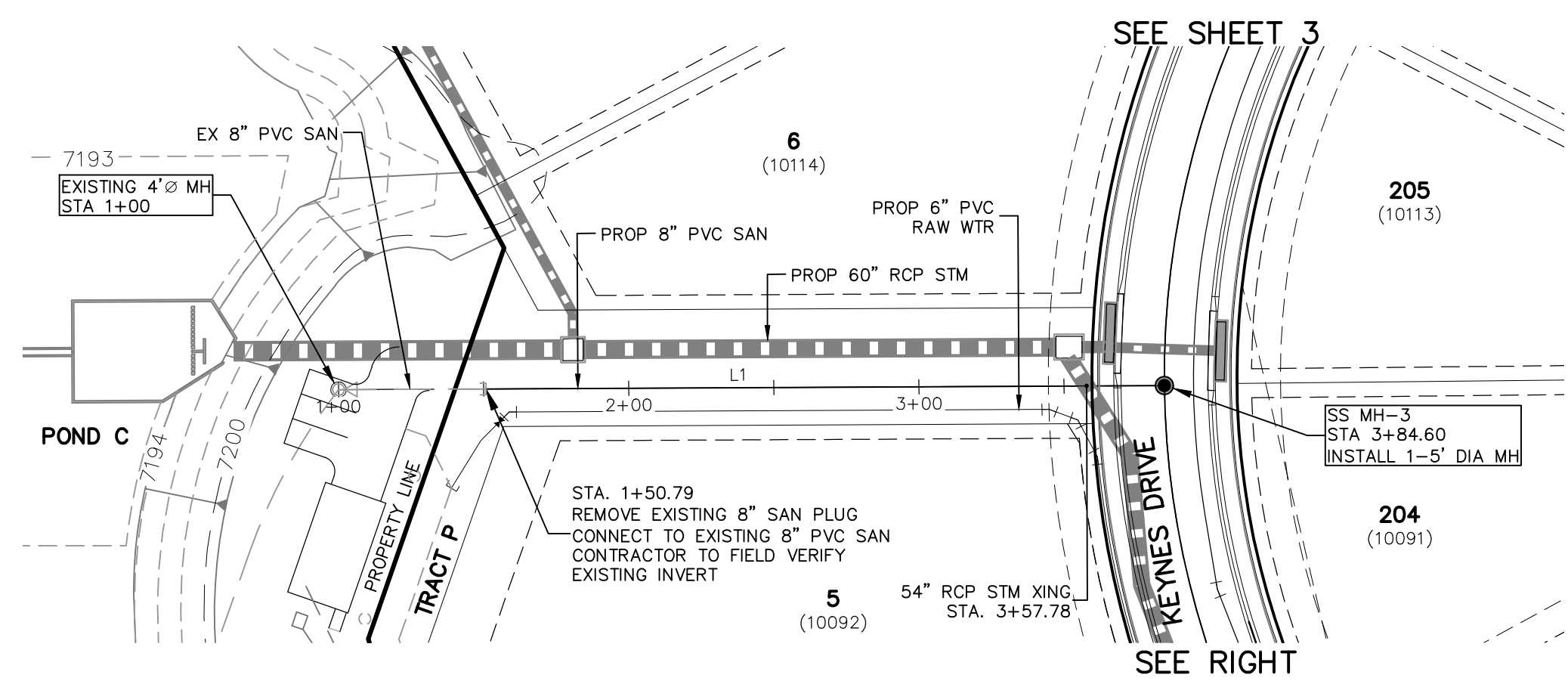
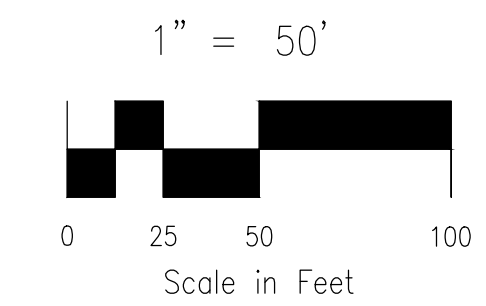
SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	233.81	N27°43'10"E
L2	86.98	S76°00'00"W

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
C4	325.05	300.00	62.08

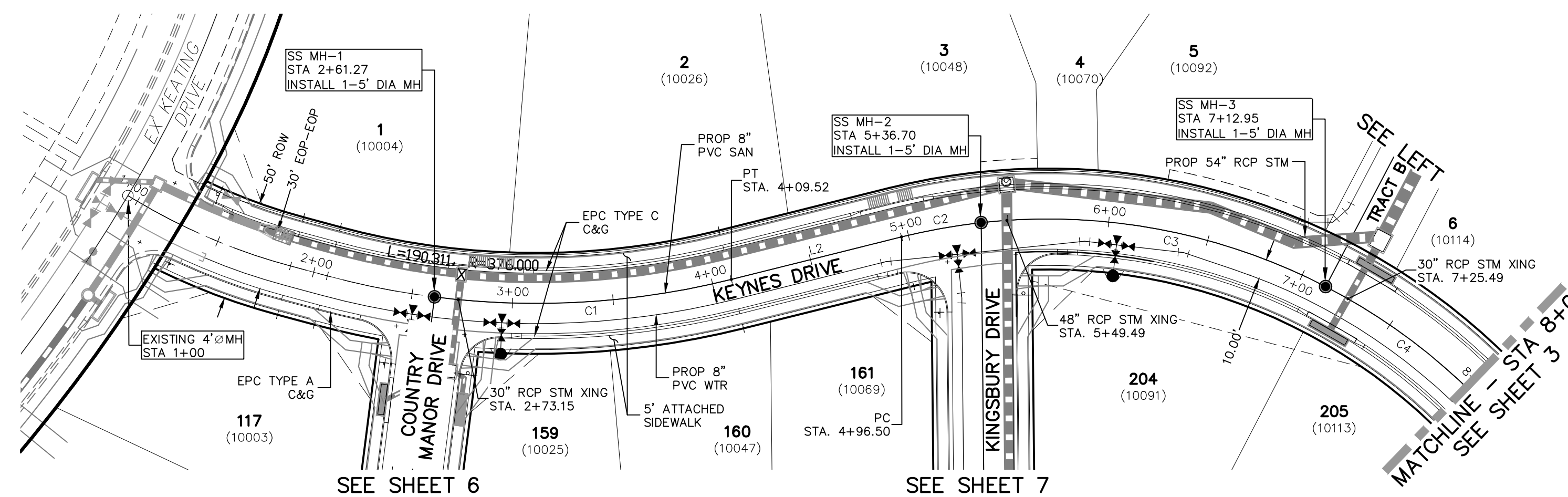
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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**48 HRS BEFORE YOU DIG
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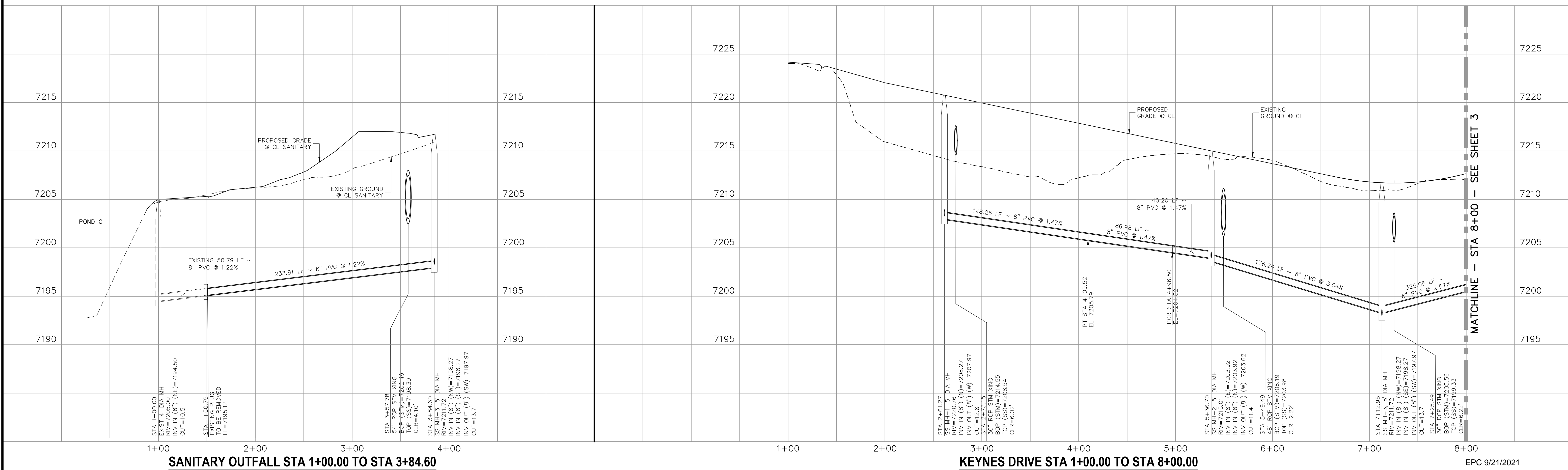
KEY MAP
 SCALE: NTS



**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

EPC 9/21/2021

PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
 PROJECT NO. 10-014
 DATE: 04/09/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: SM
 DRAWN BY: SM
 CHECKED BY: GW

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.

PROFESSIONAL ENGINEER
 VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
 4-20-21

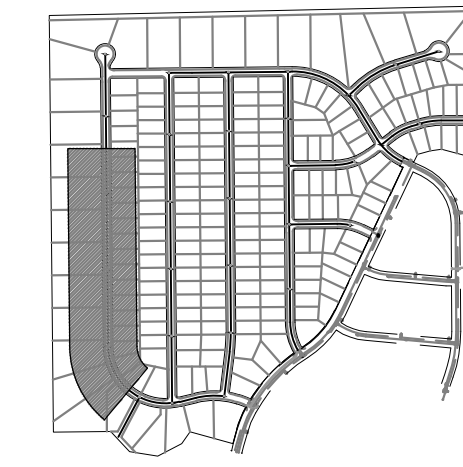
NO.	DATE	BY	DESCRIPTION

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

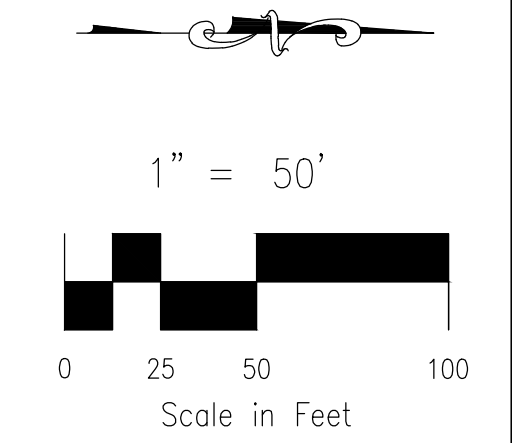
SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	400.00	N0°35'00"W
L2	400.00	N0°35'00"W
L3	400.00	N0°35'00"W

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



KEY MAP
SCALE: NTS

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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PAINTE BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014 DATE: 04/09/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW

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

CIVIL CONSULTANTS, INC.

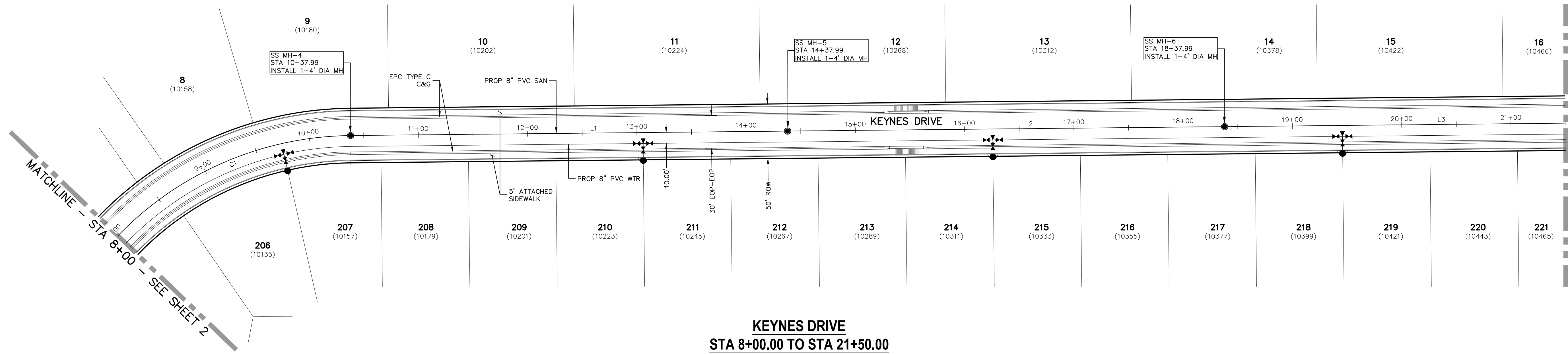
FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

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

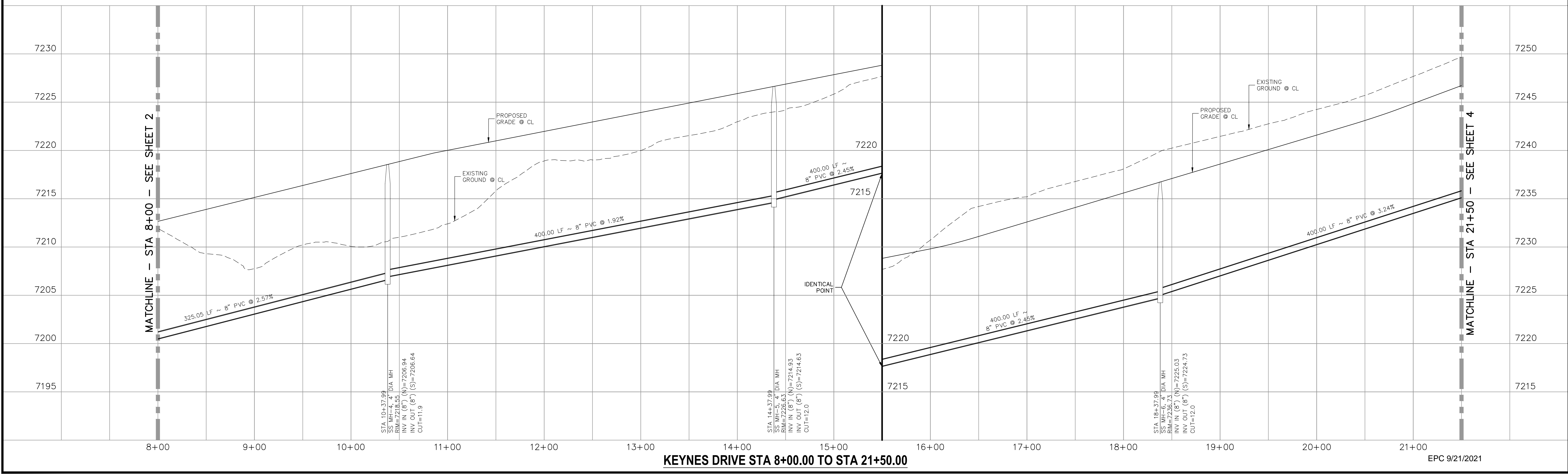
NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

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CAUTION

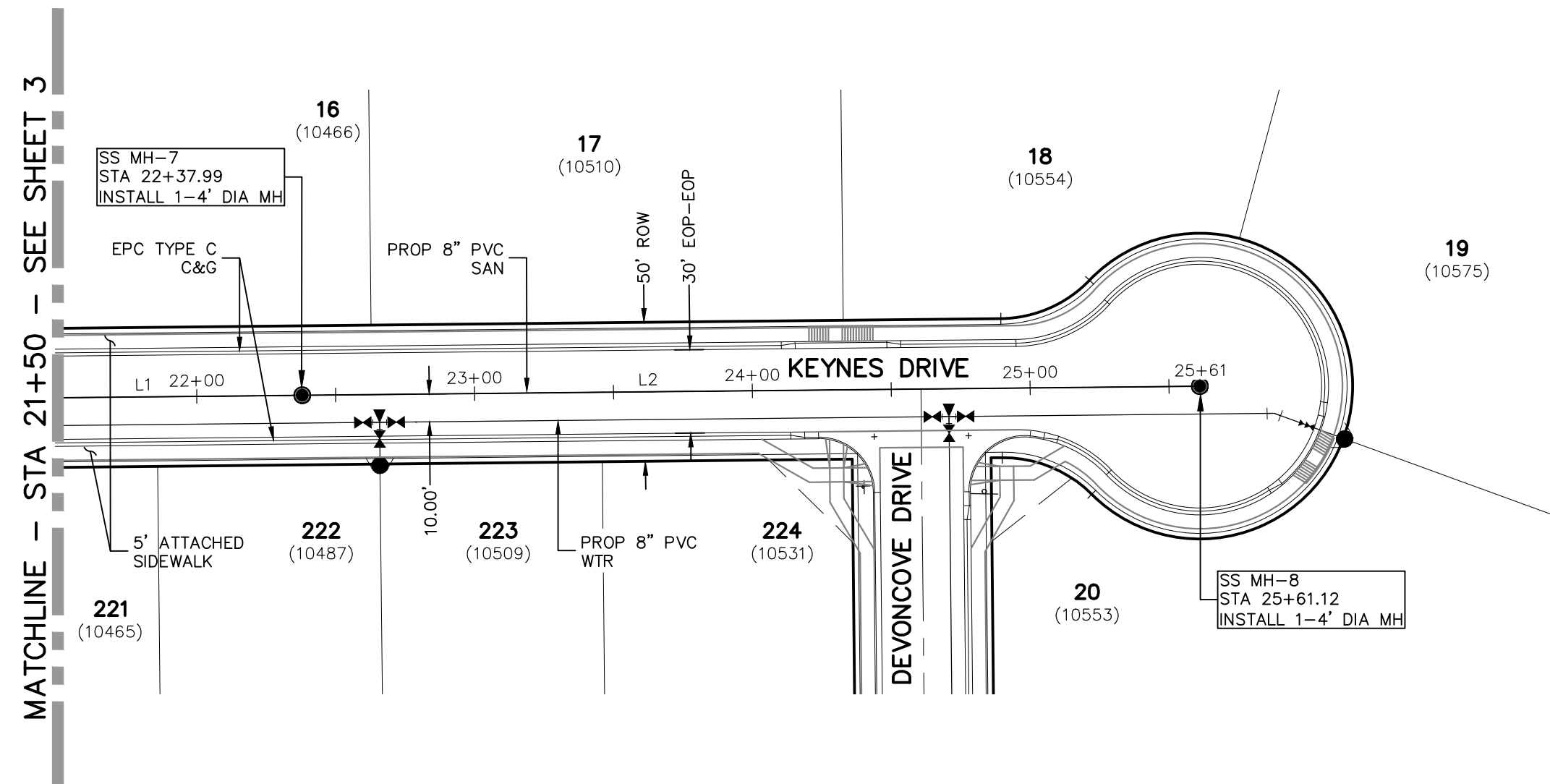


**KEYNES DRIVE
STA 8+00.00 TO STA 21+50.00**



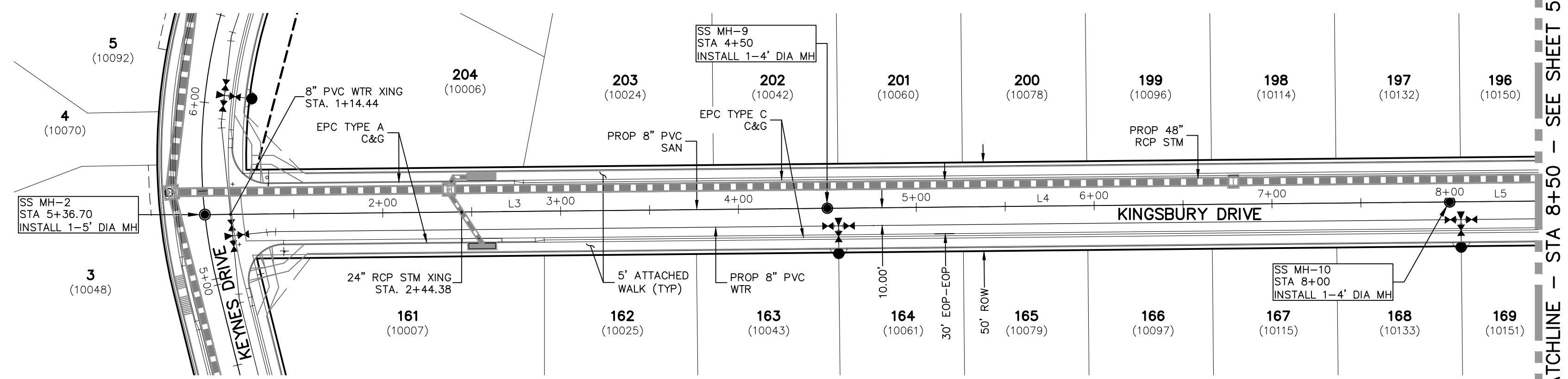
KEYNES DRIVE STA 8+00.00 TO STA 21+50.00

EPC 9/21/2021

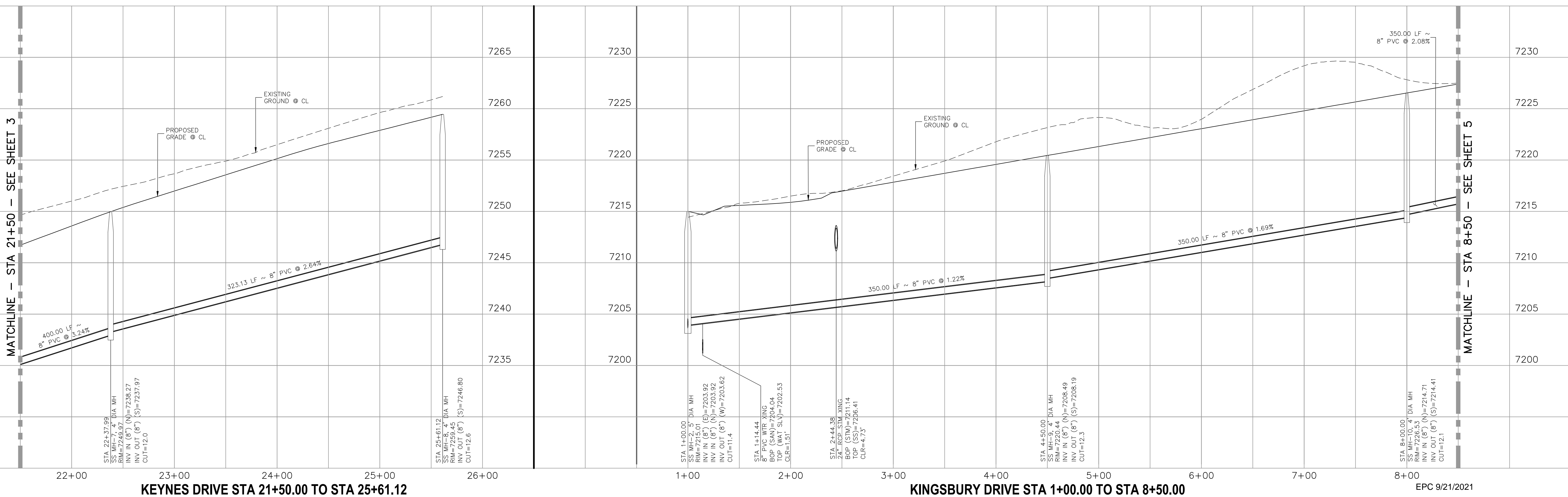


**KEYNES DRIVE
STA 21+50.00 TO STA 25+61.12**

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



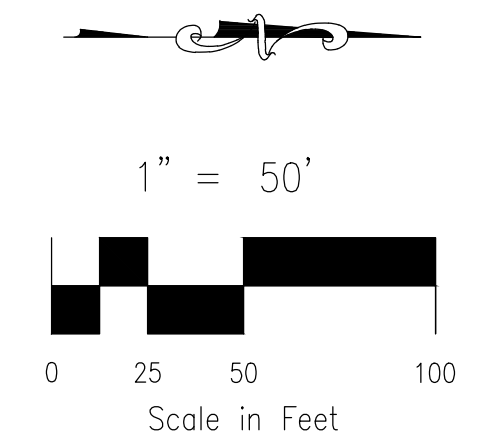
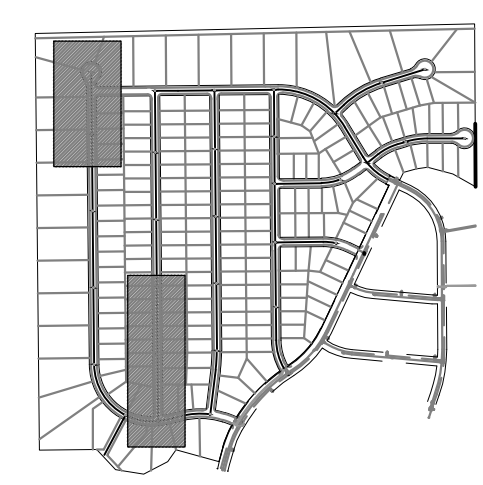
**KINGSBURY DRIVE
STA 1+00.00 TO STA 8+50.00**



KEYNES DRIVE STA 21+50.00 TO STA 25+61.12

KINGSBURY DRIVE STA 1+00.00 TO STA 8+50.00

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PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014
DATE: 04/09/2021
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.

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

NO.	DATE	BY	DESCRIPTION

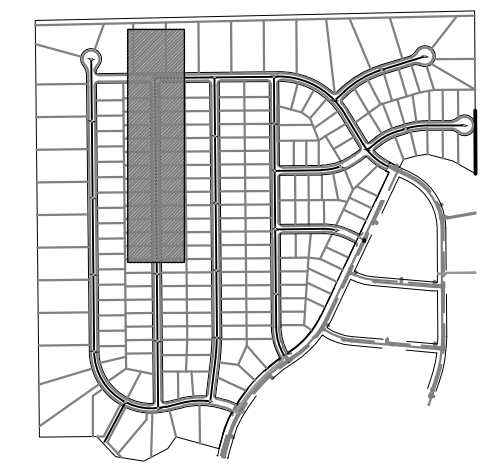
APPROVED BY: _____ DATE: _____

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CAUTION

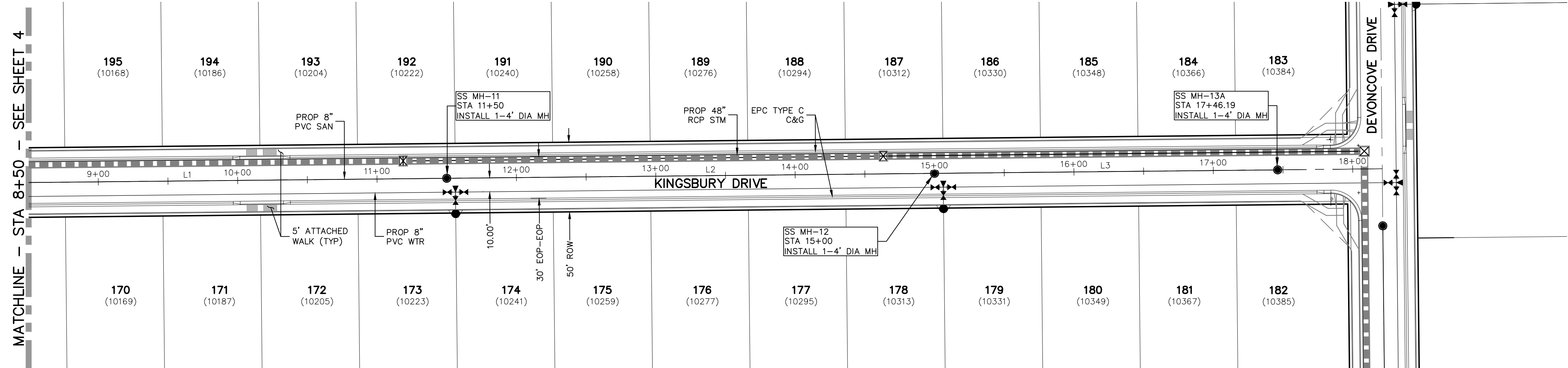
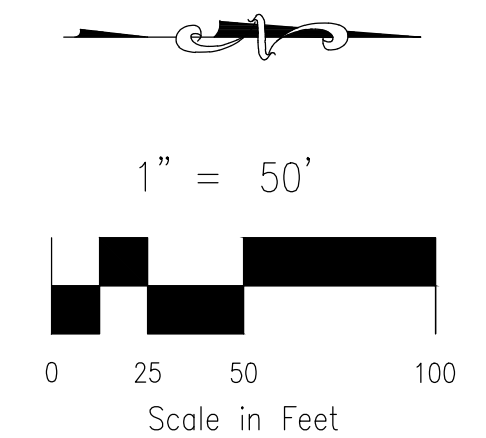
File: C:\Users\lprince\Documents\100144-PBH 14\Draw\Corral Draw\Sewer\SS04.dwg Plotstamp: 4/12/2021 11:19 AM

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

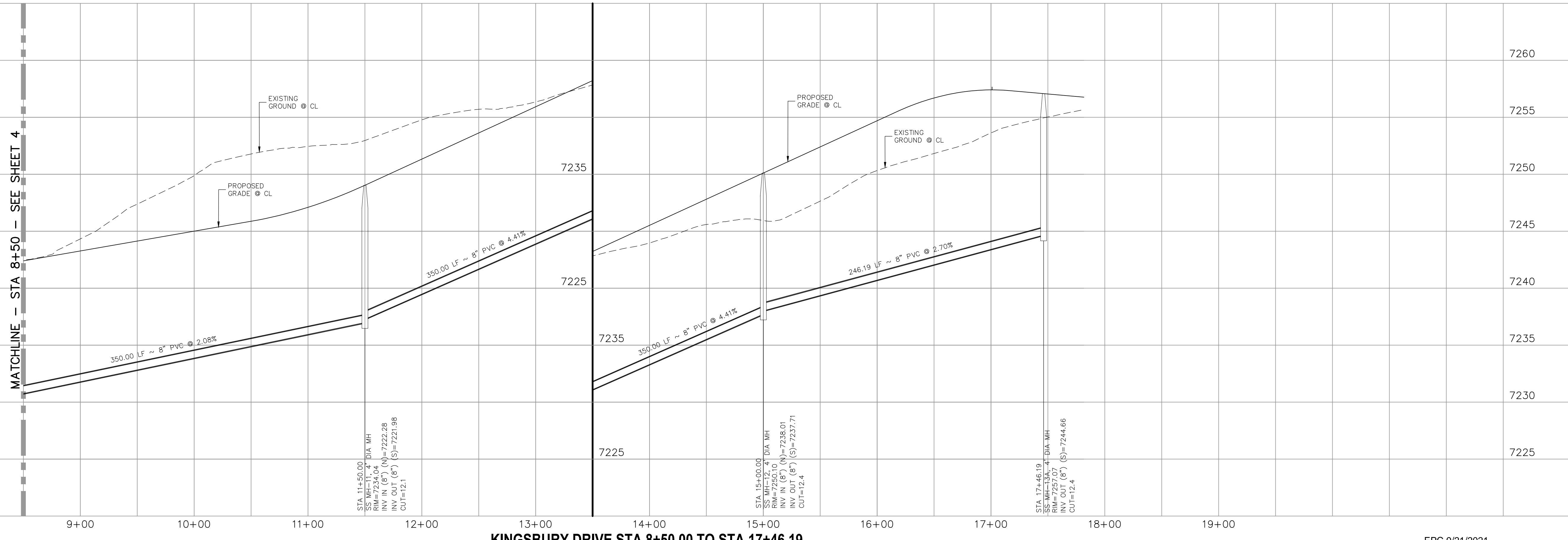


KEY MAP
SCALE: NTS

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

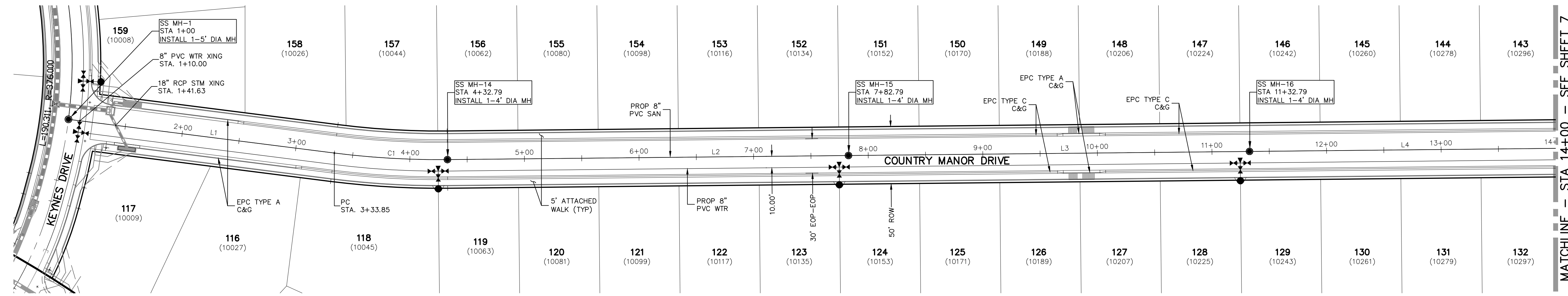


KINGSBURY DRIVE STA 8+50.00 TO STA 17+46.19

EPC 9/21/2021

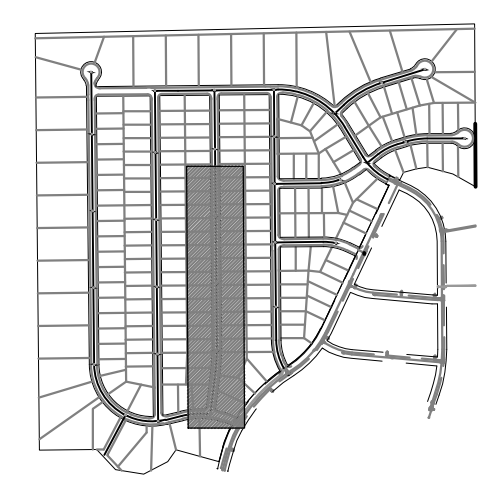
PAINT BRUSH HILLS FILING NO. 14 SANITARY SEWER PLANS		PROJECT NO. 10-014 DATE: 04/09/2021	SHEET 5 OF 27 SS05
DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW		SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'	
212 N WAHSATCH AVE, STE 303 COLORADO SPRINGS, CO 80903 PHONE: 719.555.5485			
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.			
REVISIONS: NO. DATE BY: DESCRIPTION	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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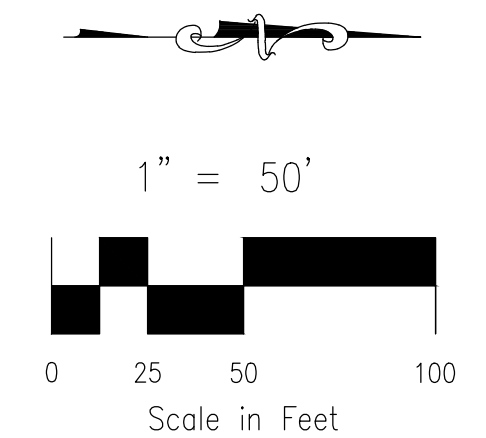


SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	233.85	N71°4'08"E
L2	350.00	N0°35'00"W
L3	350.00	N0°35'00"W
L4	350.00	N0°35'00"W

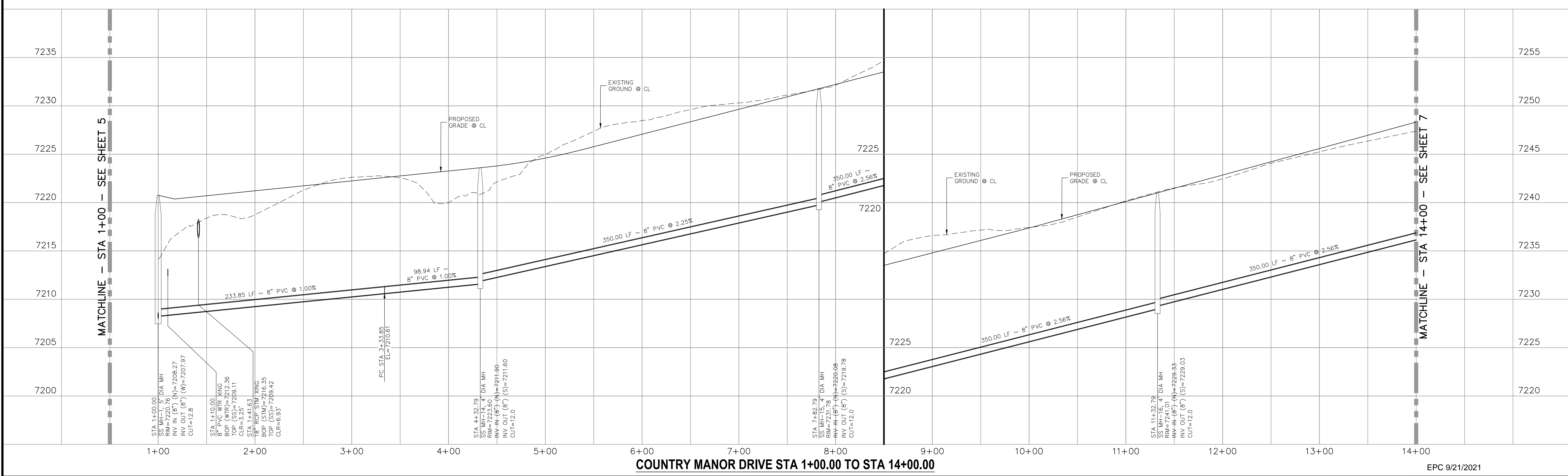
SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	98.94	725.00	7.82



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



PAIN'T BRUSH HILLS FILING NO. 14

SANITARY SEWER PLANS

PROJECT NO. 10-014 DATE: 04/09/2021

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

DRAWN BY: SM SHEET 6 OF 27

CHECKED BY: GW SS06

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. 37760

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 4-20-21

NO.	DATE	BY	DESCRIPTION	APPROV'D. BY	DATE

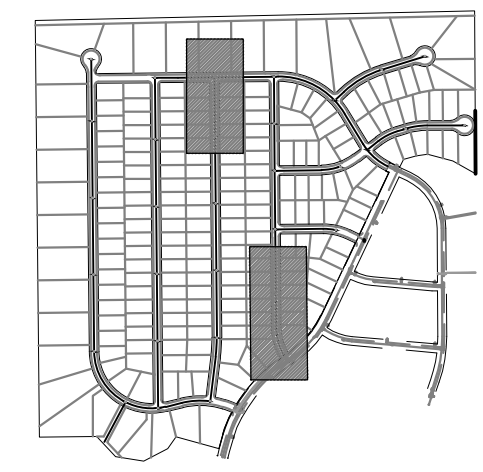
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CAUTION

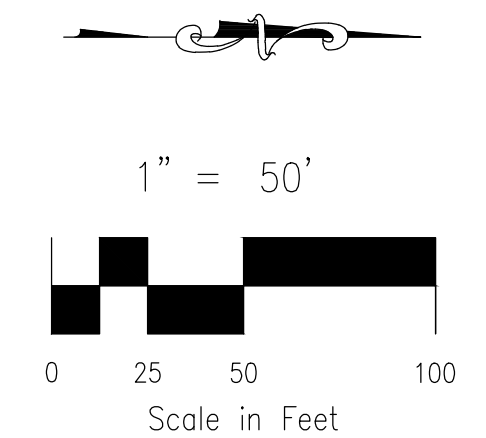
EPC 9/21/2021

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



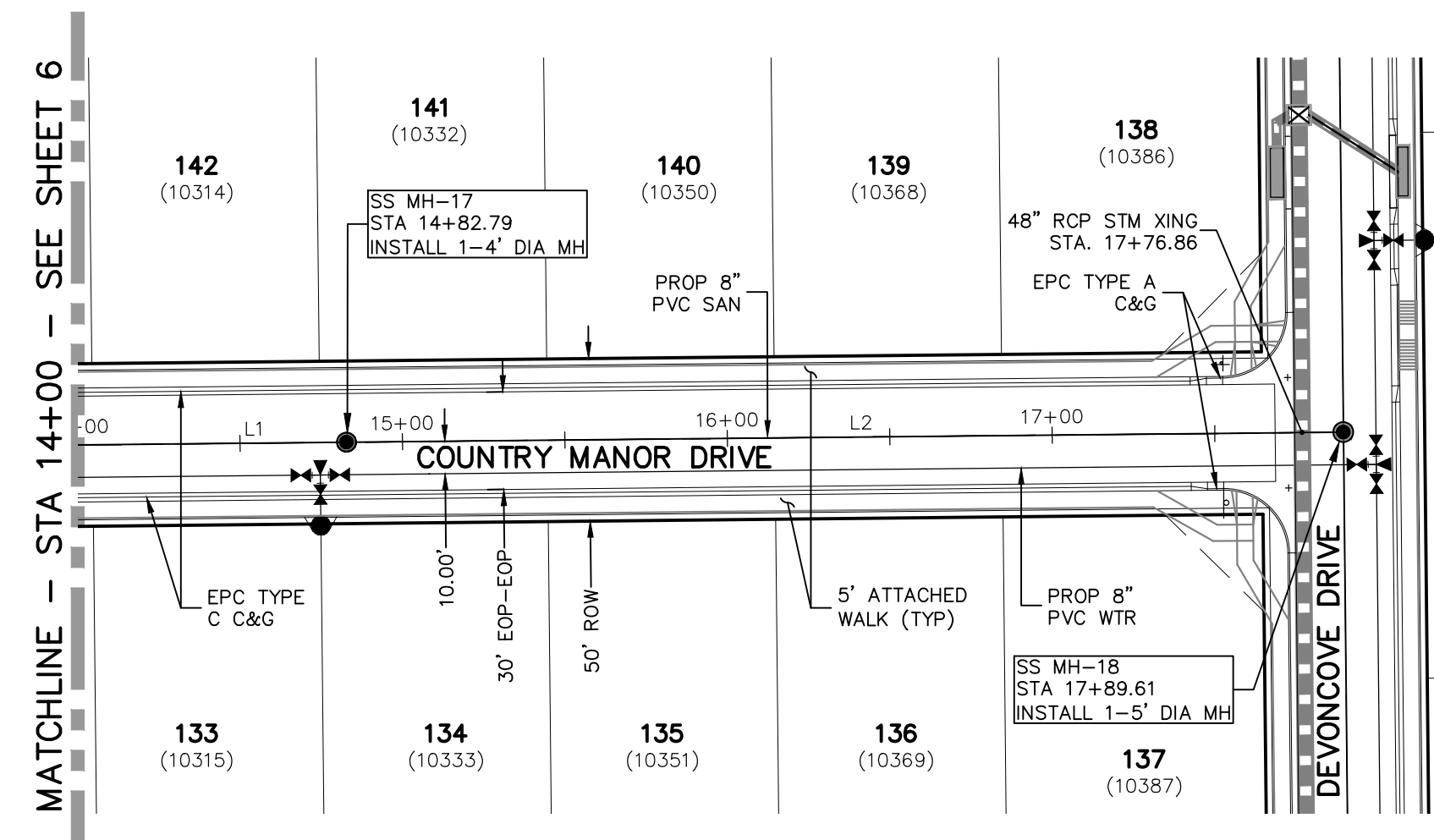
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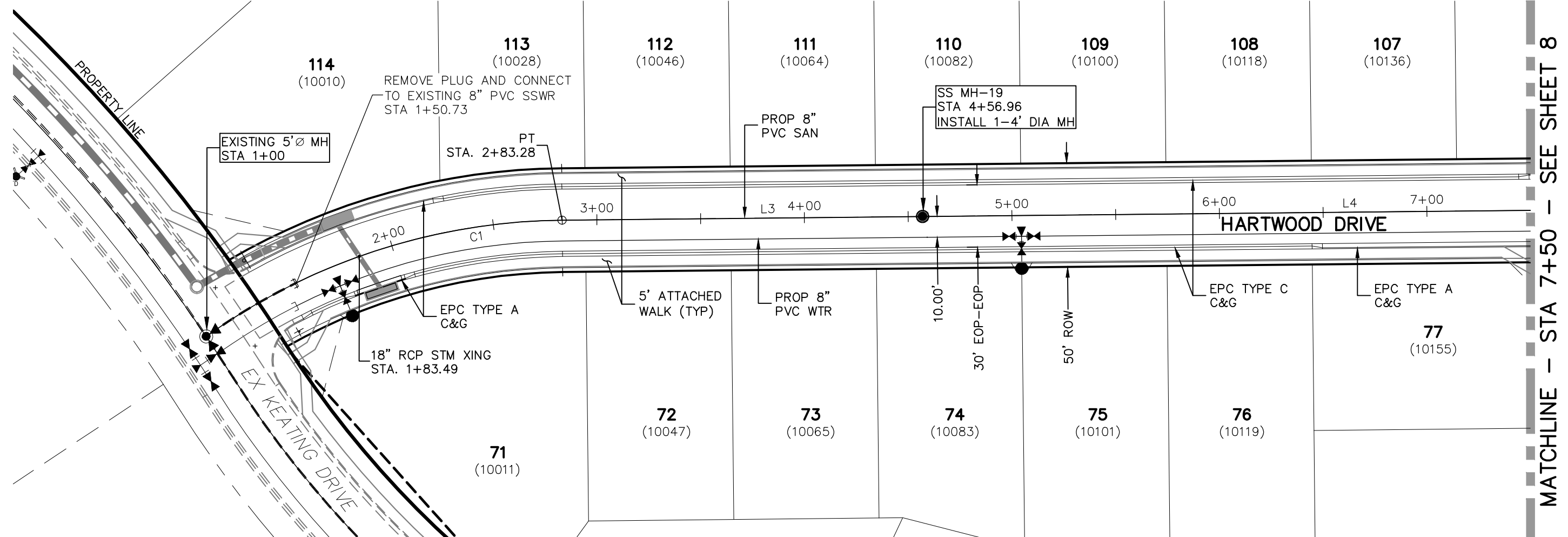
PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014
DATE: 04/09/2021
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW
SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

212 N WAHATCH AVE, STE 203
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485
CIVIL CONSULTANTS, INC.

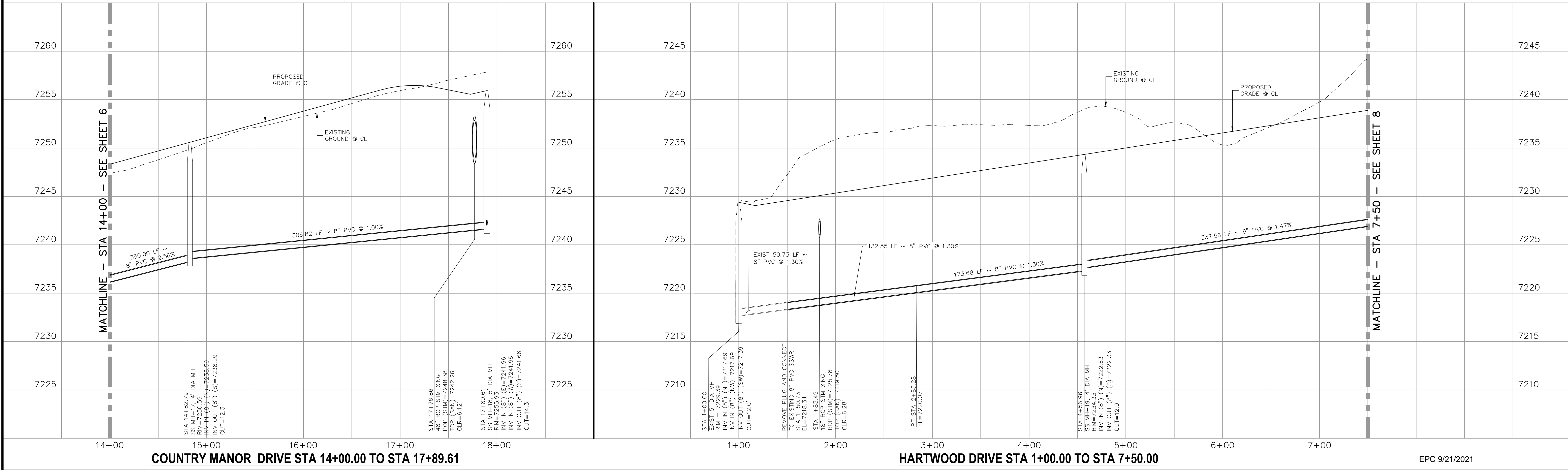
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160
REGISTERED PROFESSIONAL ENGINEER
37160
4-20-21



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

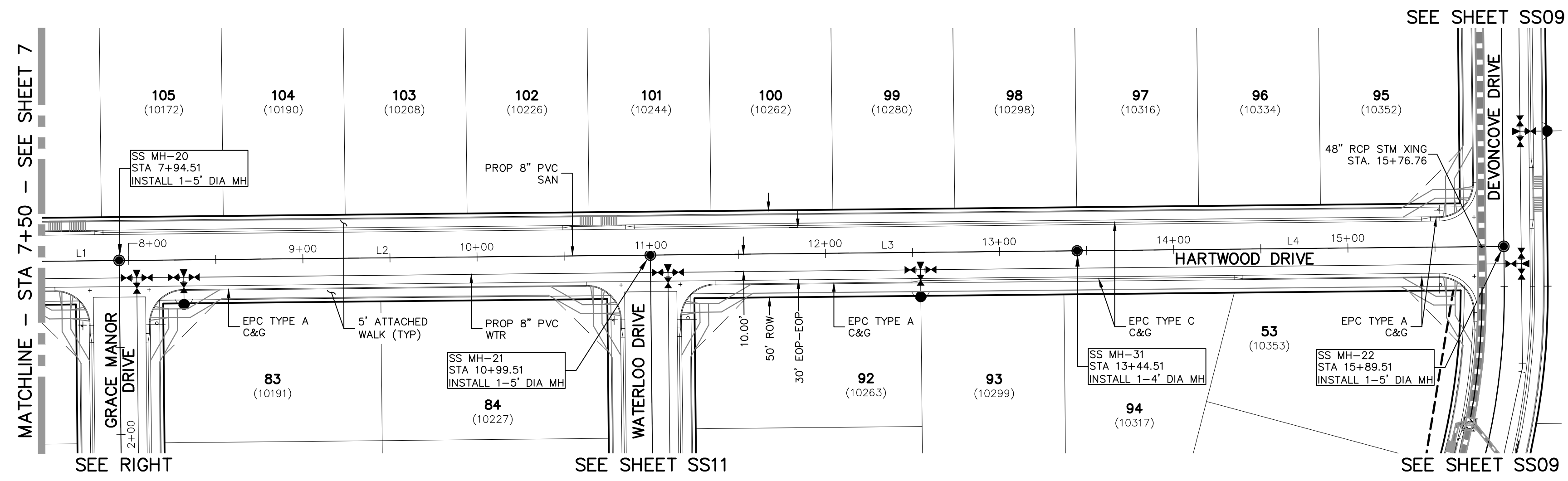
HARTWOOD DRIVE STA 1+00.00 TO STA 7+50.00

EPC 9/21/2021

NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

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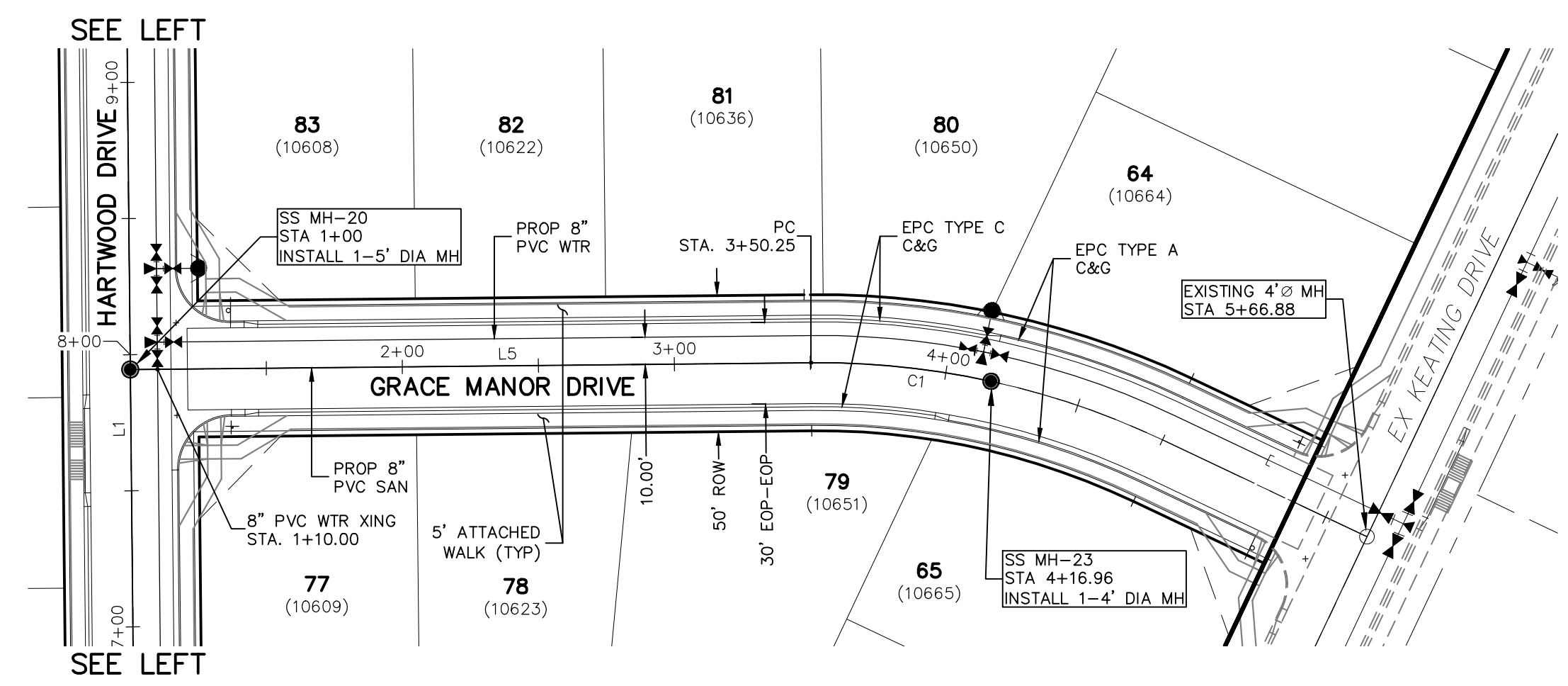
CAUTION



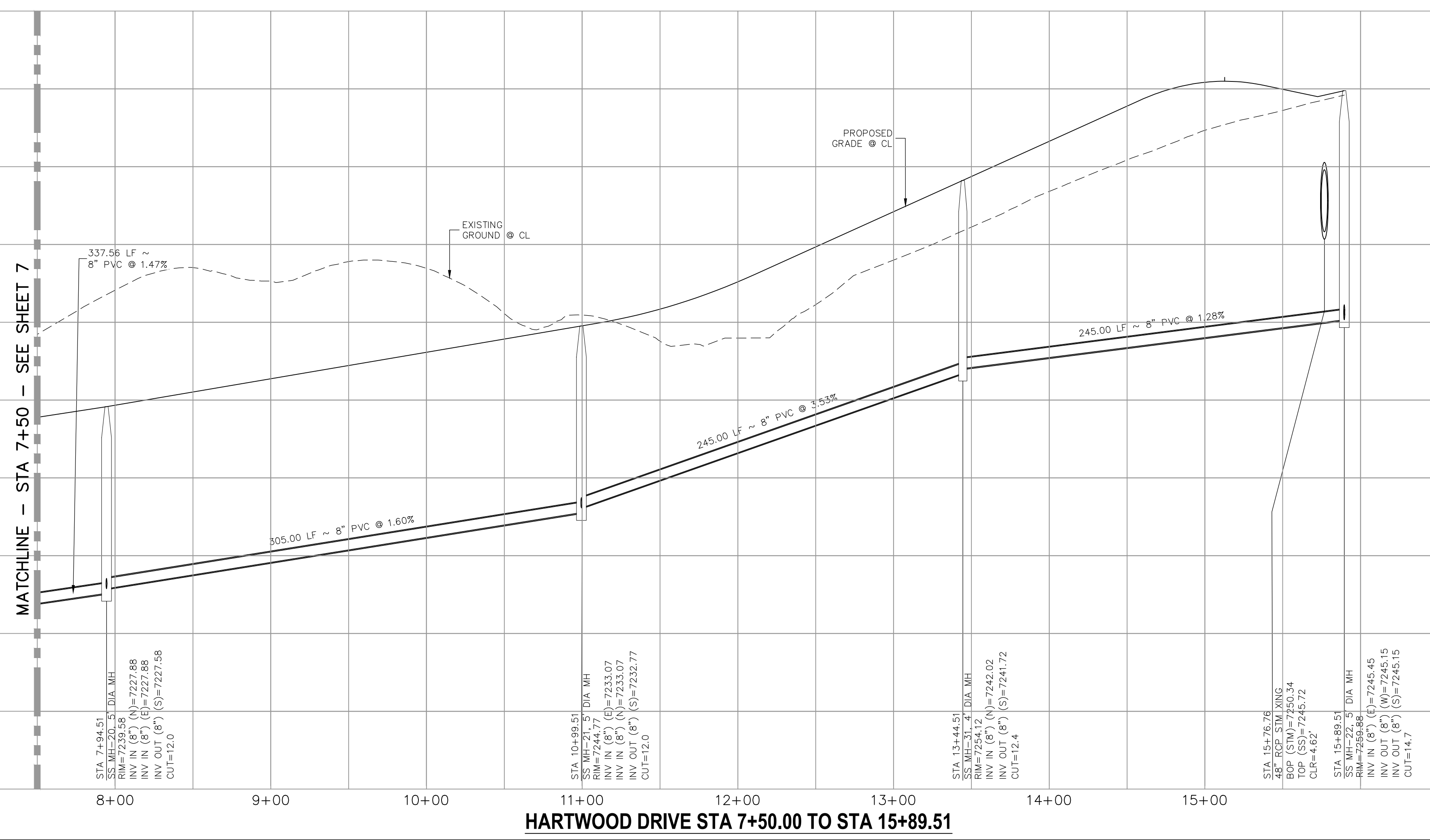
**HARTWOOD DRIVE
STA 7+50.00 TO STA 15+89.51**

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

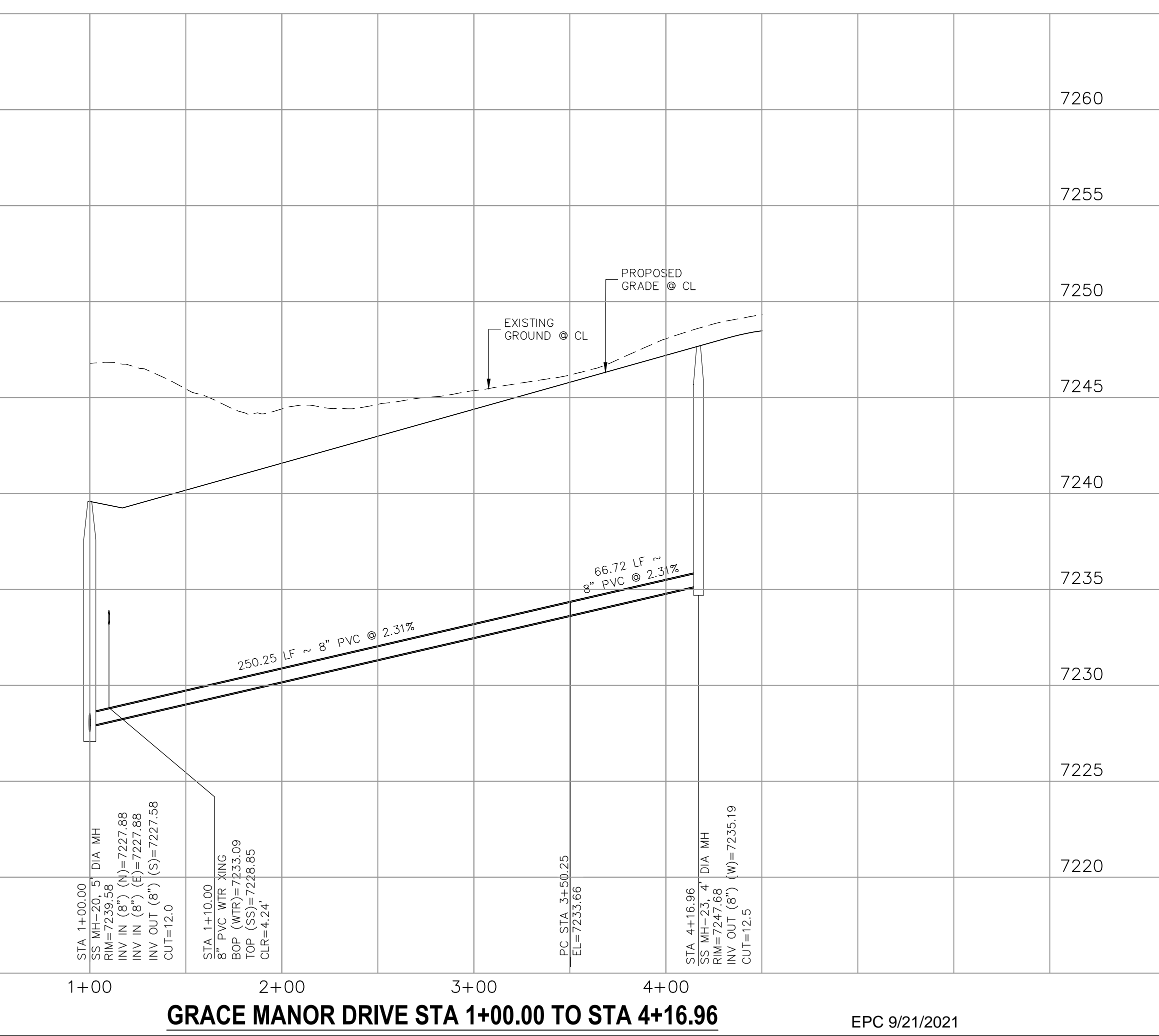
SANITARY SEWER CURVE TABLE			
Curve #	Length	Radius	Delta
C1	66.72	295.00	12.96



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

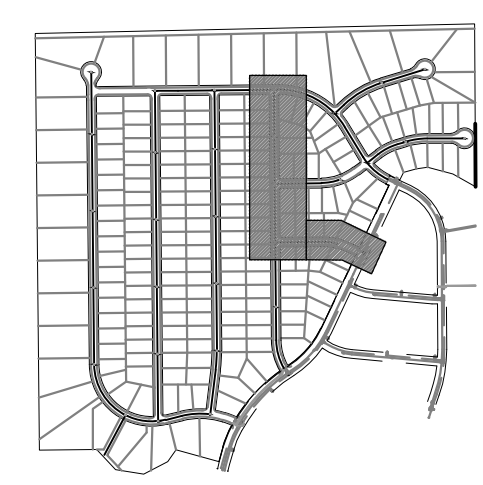


HARTWOOD DRIVE STA 7+50.00 TO STA 15+89.51

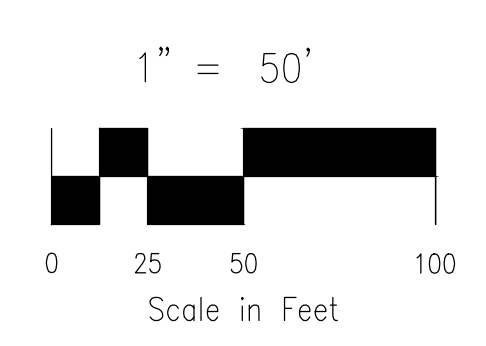


GRACE MANOR DRIVE STA 1+00.00 TO STA 4+16.96

EPC 9/21/2021

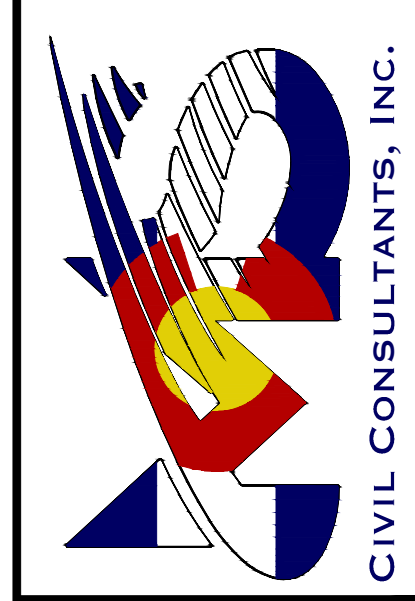


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PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: SM
DRAWN BY: SM
CHECKED BY: GW

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

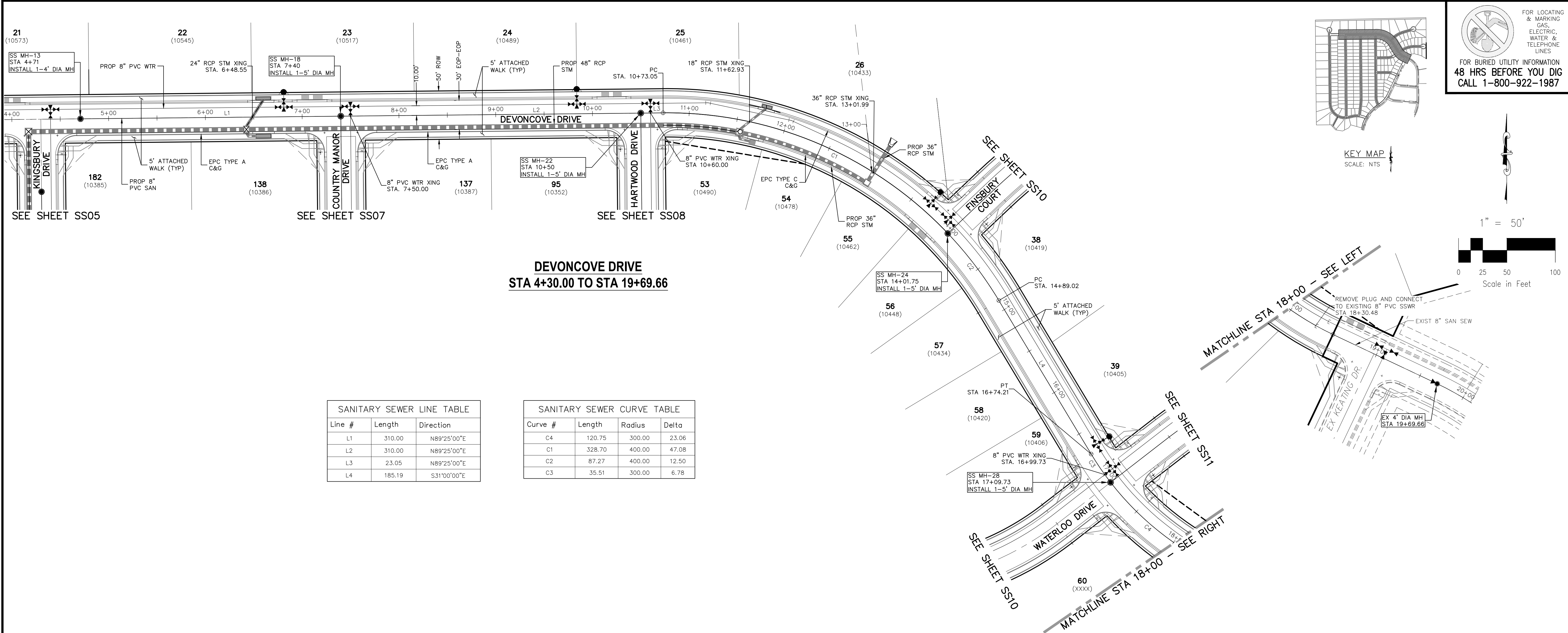


FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
PROFESSIONAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
37160
4-20-21

NO.	DATE	BY	DESCRIPTION

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CAUTION

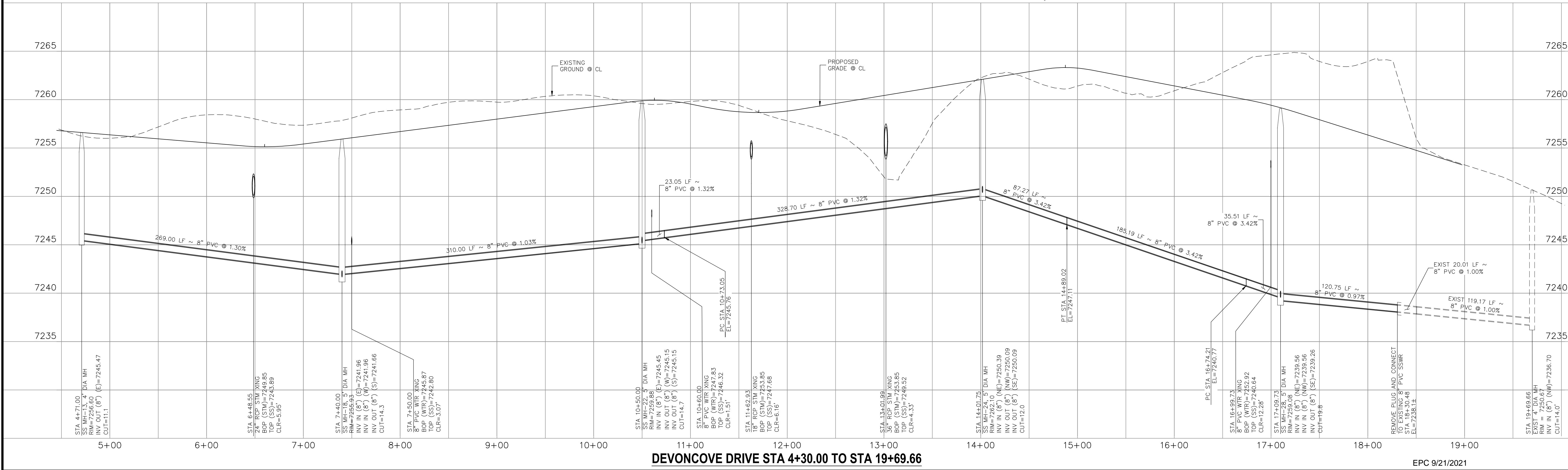


SANITARY SEWER LINE TABLE

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

SANITARY SEWER CURVE TABLE

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



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PAINT BRUSH HILLS FILING NO. 14
SANITARY SEWER PLANS
 PROJECT NO. 10-014 DATE: 04/09/2021
 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 AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:

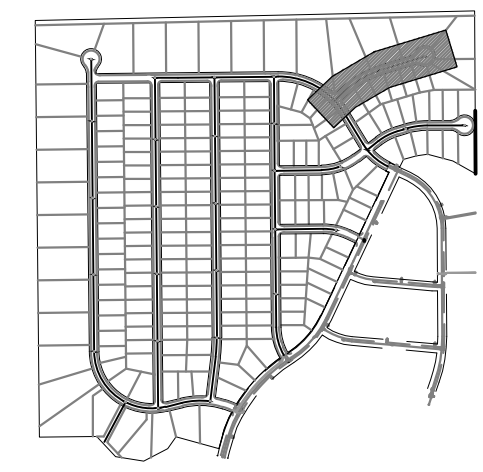
APPROVED BY: _____ DATE: _____

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CAUTION

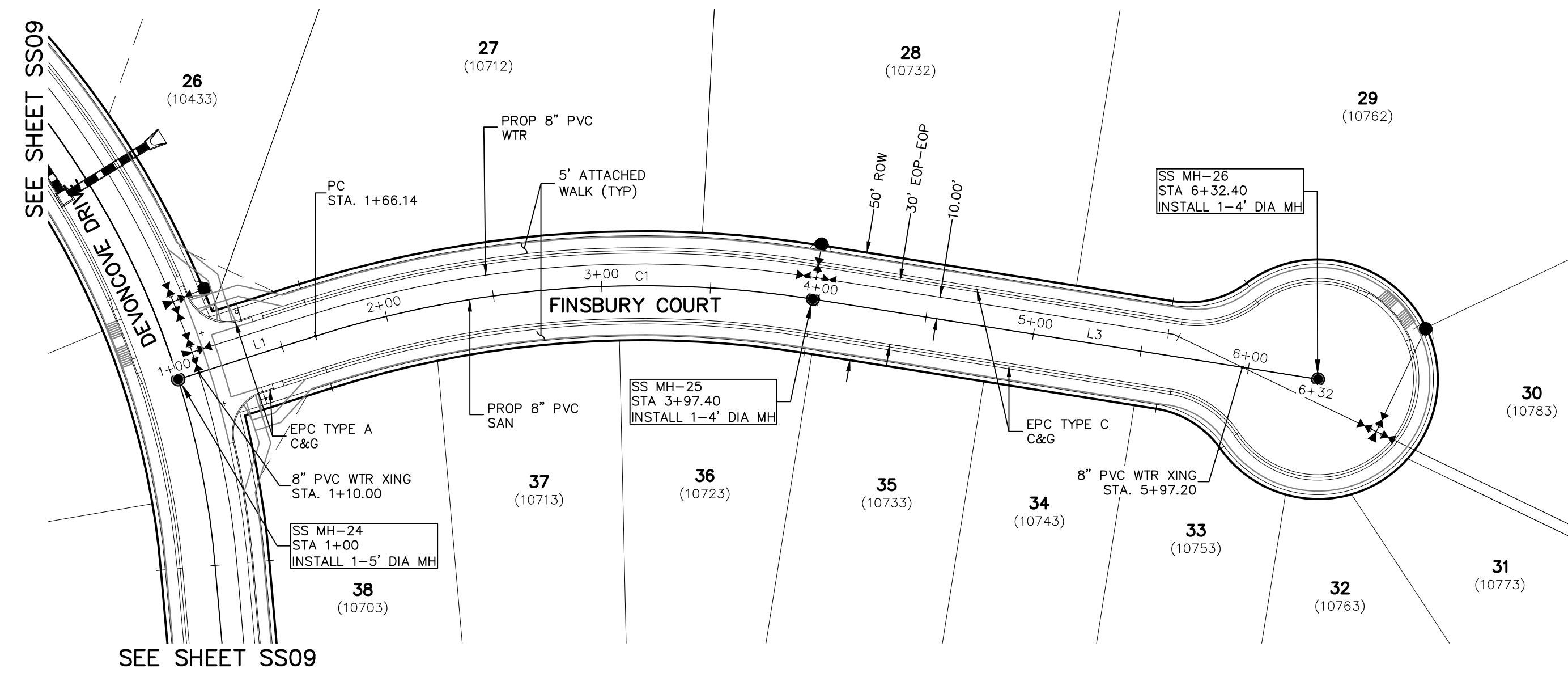
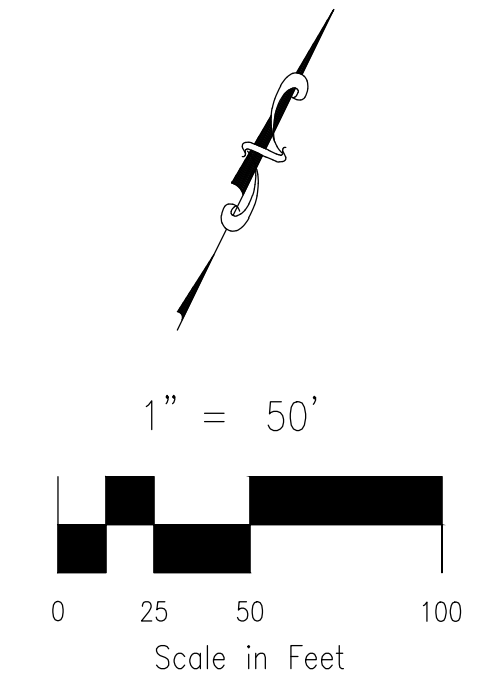
SANITARY SEWER LINE TABLE		
Line #	Length	Direction
L1	66.14	S46°30'00"W
L3	235.00	S73°00'00"W

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

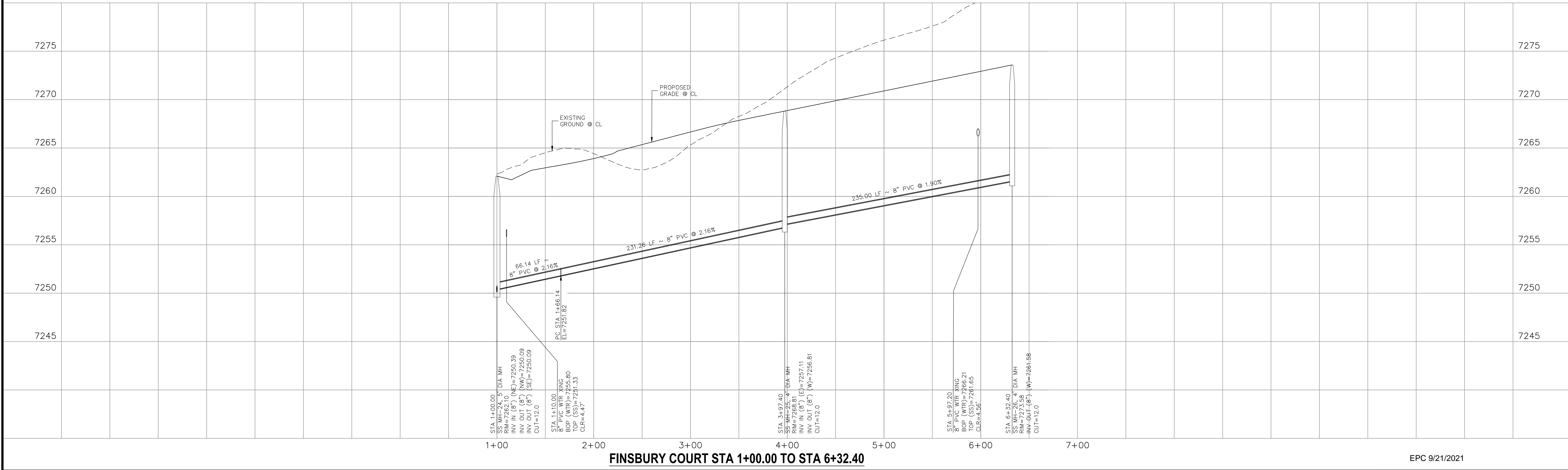


KEY MAP
SCALE: NTS

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FOR BURIED UTILITY INFORMATION
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**FINSBURY COURT
STA 1+00.00 TO STA 6+32.40**



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: 04/09/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: SM DRAWN BY: SM CHECKED BY: GW

212 N. WABATCH AVE., STE 305
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. 37760

NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

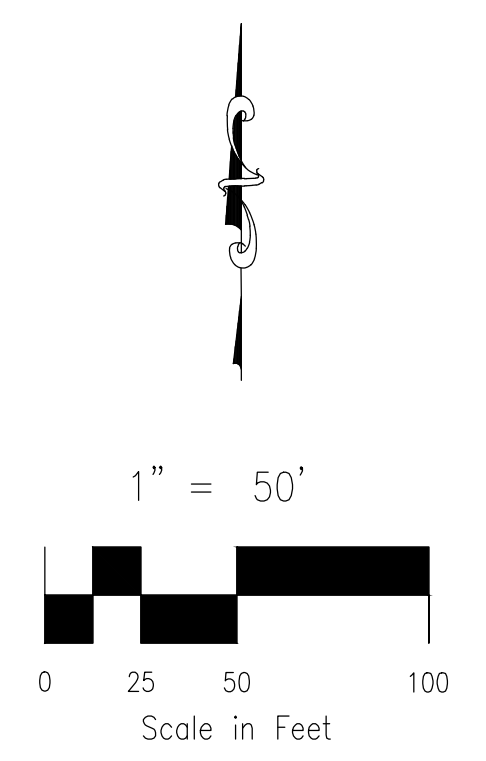
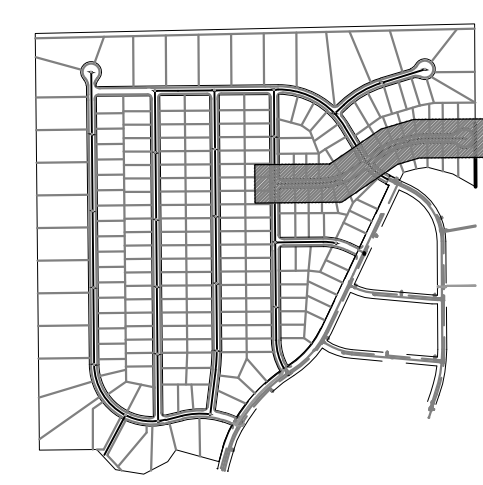
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CAUTION

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

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PROJECT NO. 10-014
 DATE: 04/09/2021
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
 DESIGNED BY: SM
 DRAWN BY: SM
 CHECKED BY: GW

PAINT BRUSH HILLS FILING NO. 14
 SANITARY SEWER PLANS

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

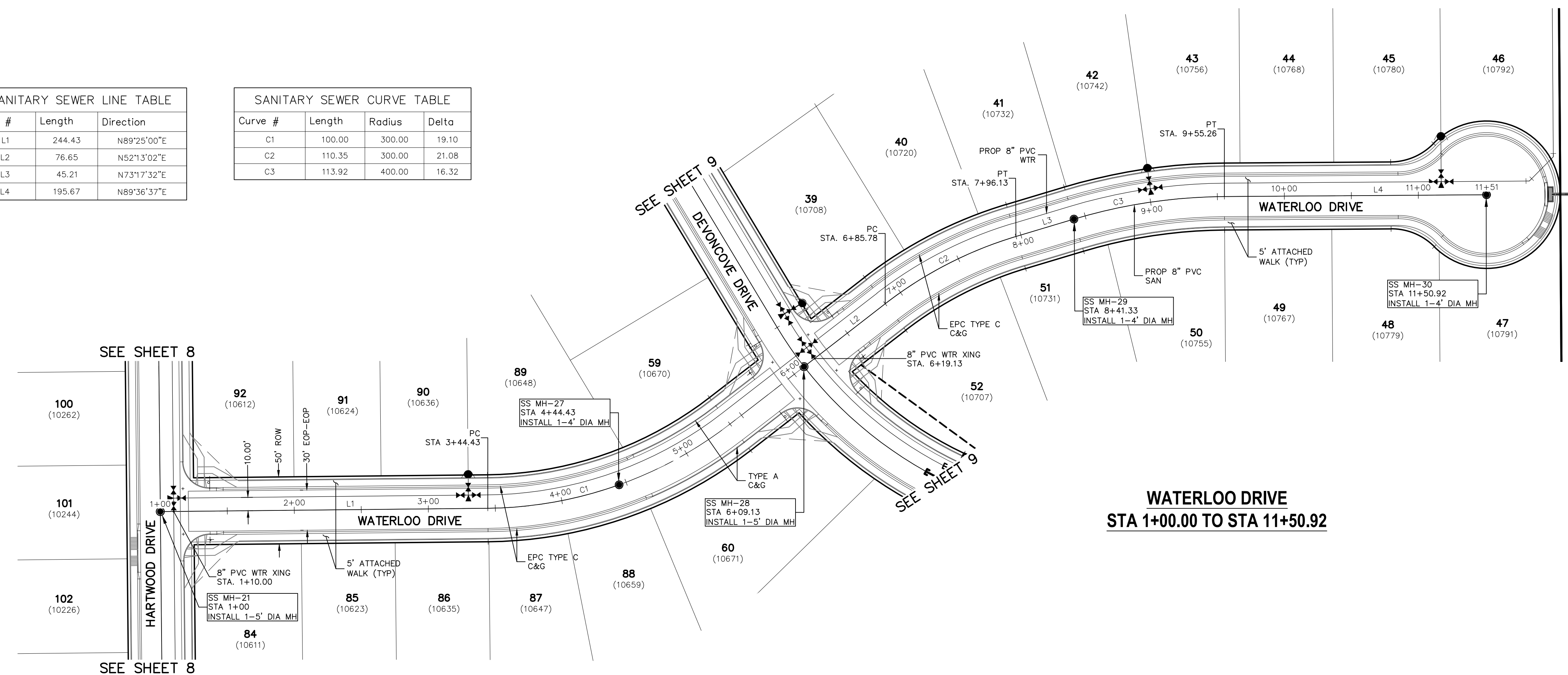
FOR AND ON BEHALF OF
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FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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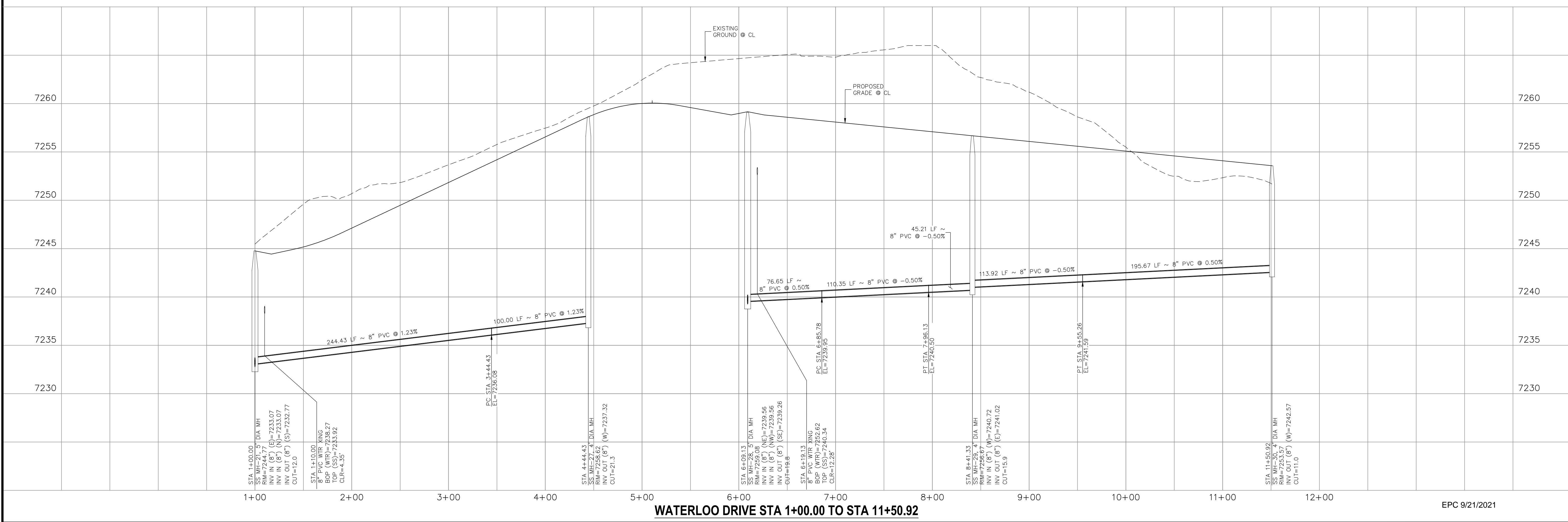
NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

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CAUTION



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



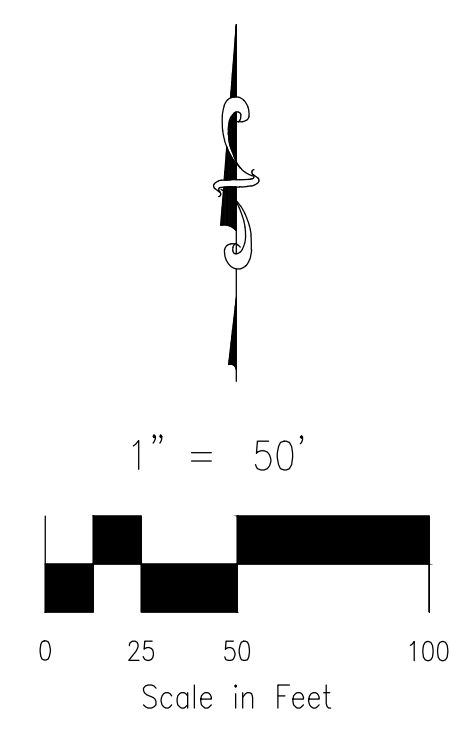
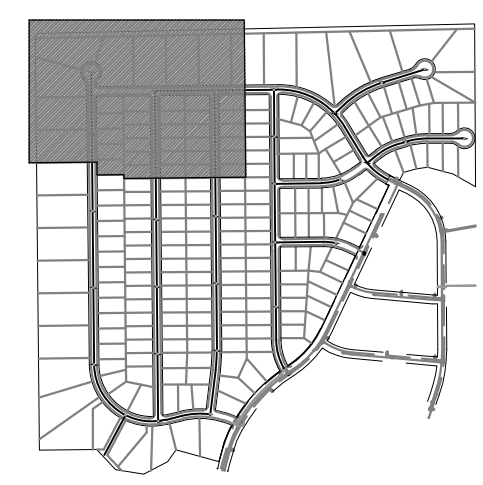
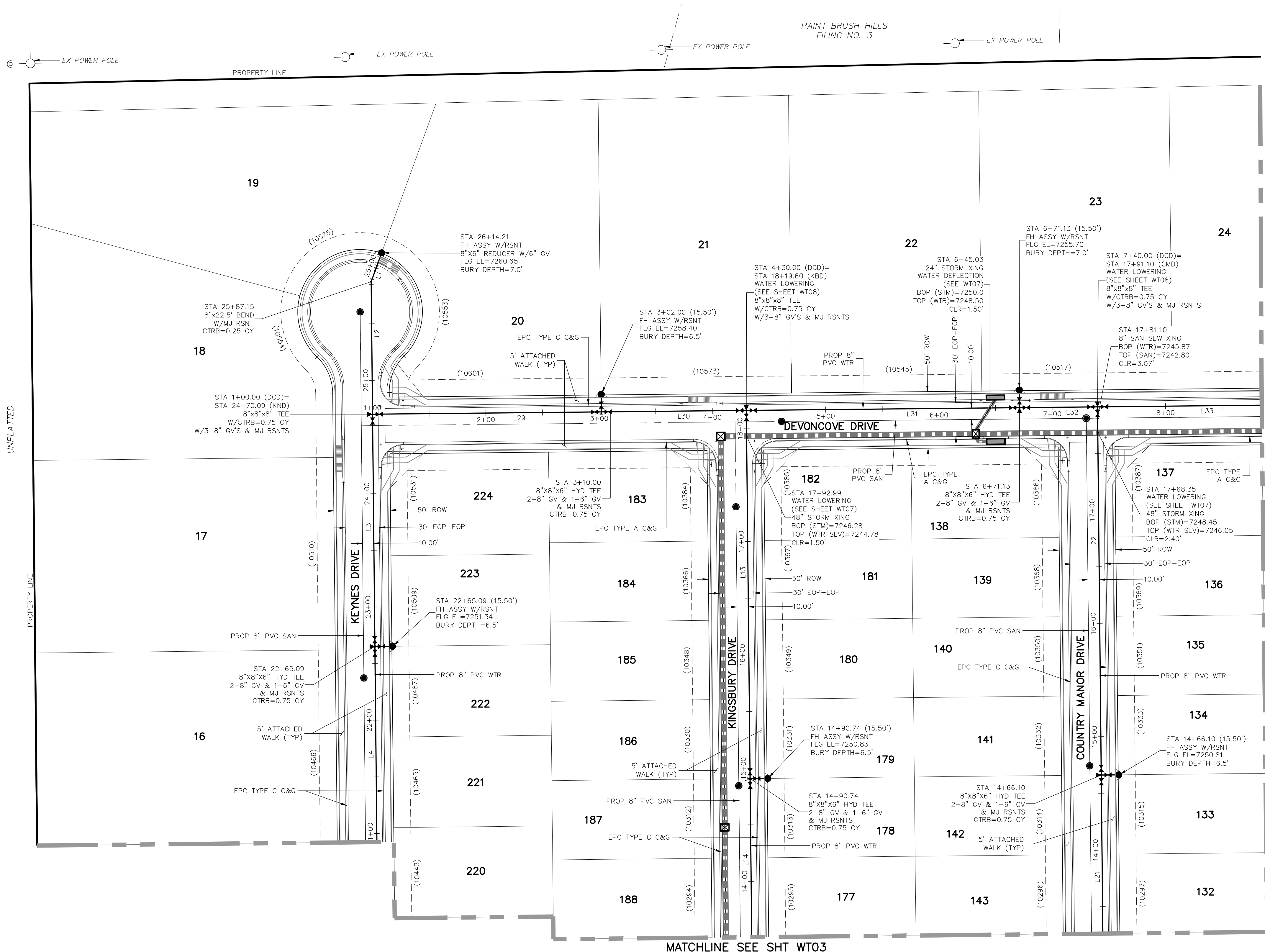
WATERLOO DRIVE STA 1+00.00 TO STA 11+50.92

EPC 9/21/2021

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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



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
- 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

EPC 9/21/2021

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014
DATE: 04/06/2021
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

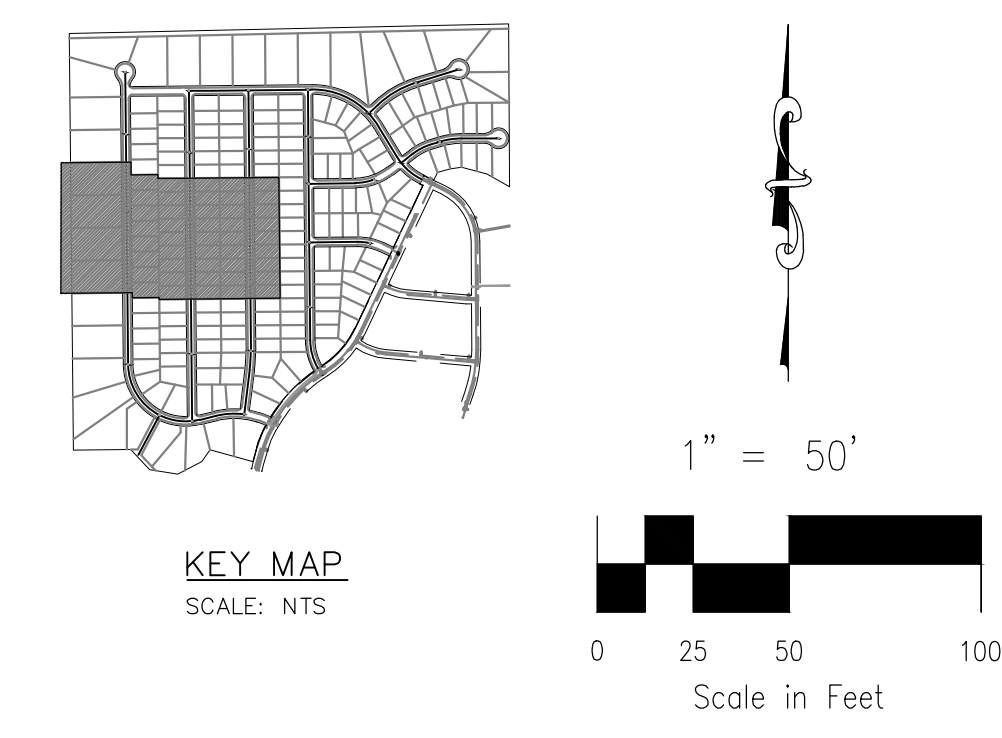
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 4-20-21

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



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.

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

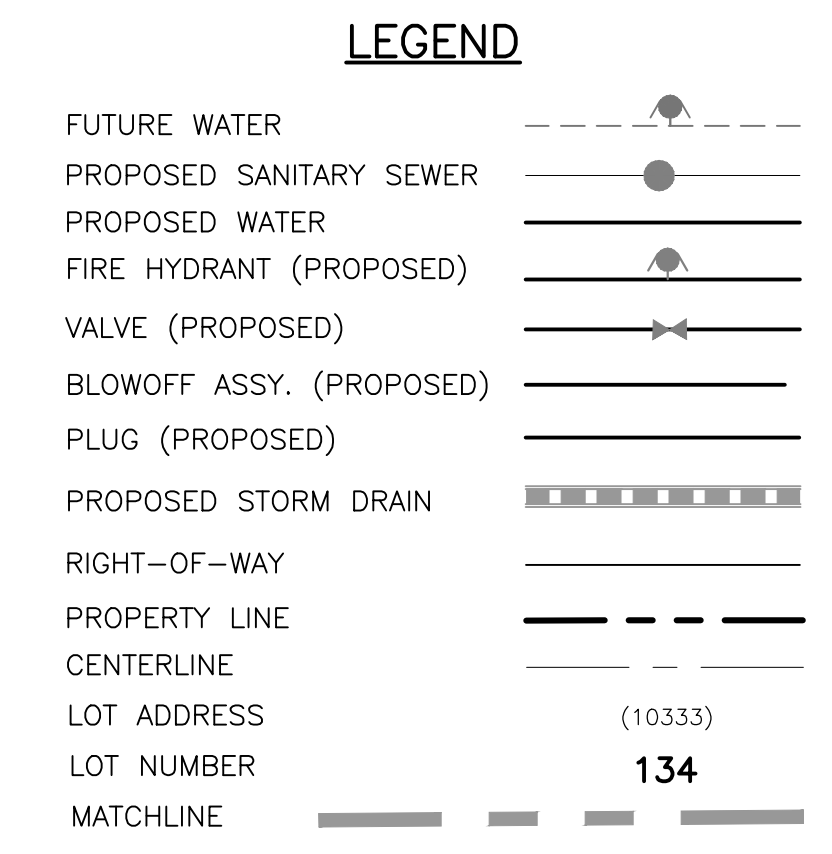
NO.	DATE	BY	DESCRIPTION	APPROV. BY	DATE

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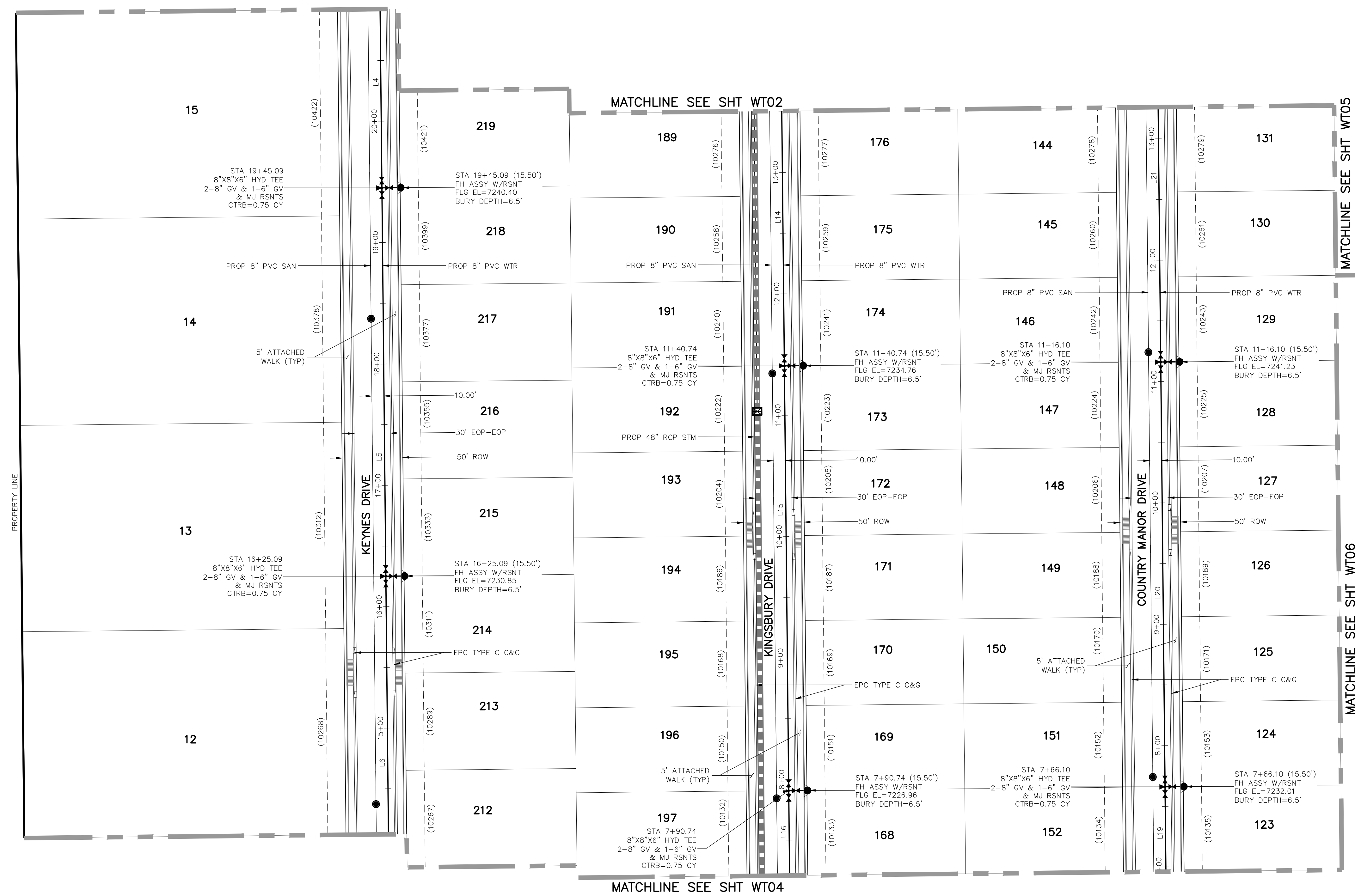
NOTE:
 1. CURVILINEAR PIPE MUST UTILIZE HD COUPLERS.

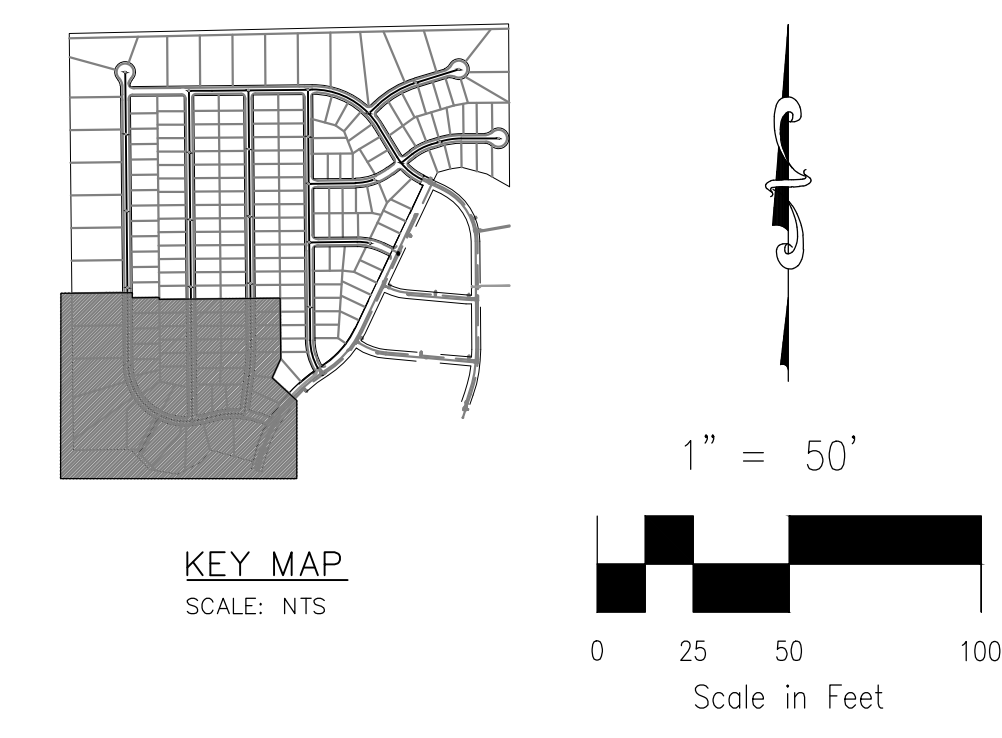
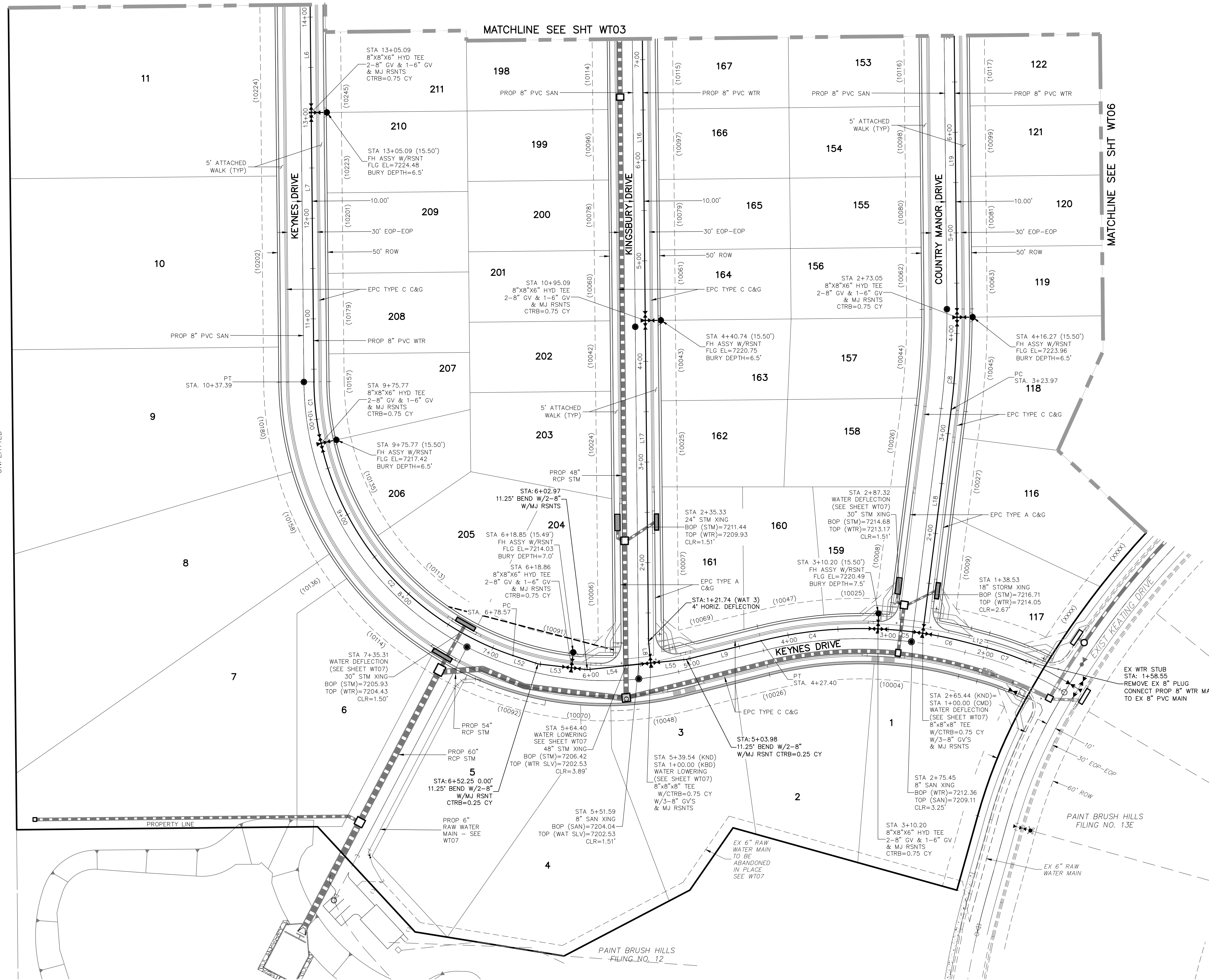
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 - DCD DEVONCOVE DRIVE
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 - HWD HARTWOOD DRIVE
 - GMD GRACE MANOR DRIVE
 - EXIST'G EXISTING
 - SAN SANITARY SEWER
 - PROP PROPOSED
 - SHT SHEET
 - WTR WATER
 - EPC EL PASO COUNTY CURB AND GUTTER
 - 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



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





NOTE:
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ABBREVIATIONS

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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
- LOT NUMBER
- MATCHLINE

WATER LINE TABLE

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°4'10"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

WATER CURVE TABLE

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

PAINT BRUSH HILLS FILING NO. 14

WATER PLANS

PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: N/A
DESIGNED BY: JWP
DRAWN BY: SM
CHECKED BY: GW

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

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

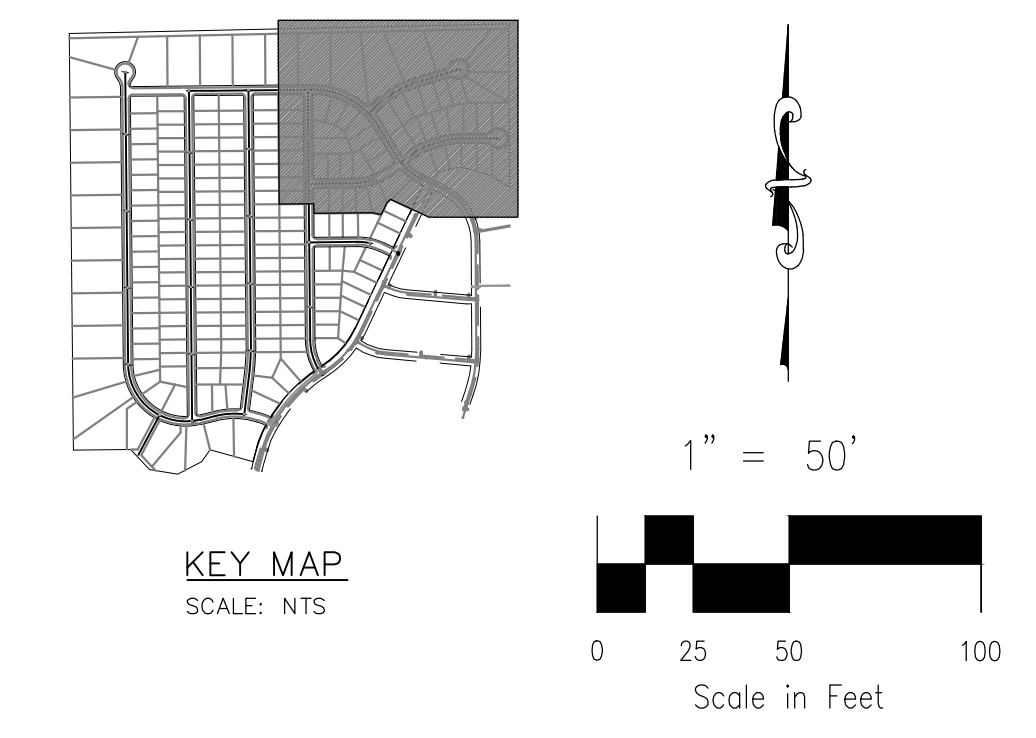
APPROVED BY: _____ DATE: _____

REVISIONS: _____

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CAUTION

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- TOP TOP 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

WATER LINE TABLE

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	166.28	N73°00'00"E
L39	103.24	N89°36'40"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	161.87	N89°36'40"E
L46	65.80	N89°36'40"E
L49	5.98	S31°00'00"E
L50	87.83	S77°59'10"E
L51	46.62	S65°23'30"E

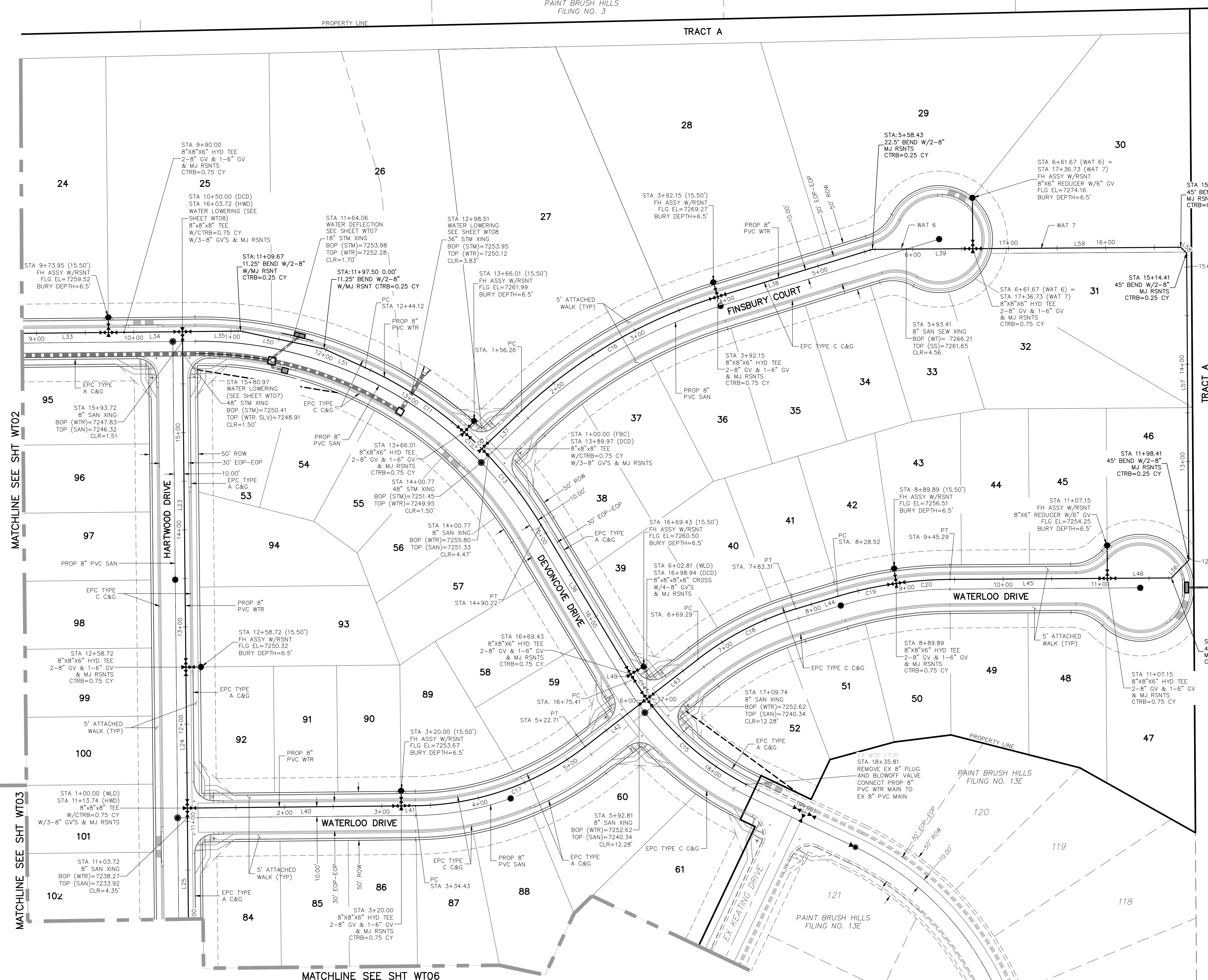
WATER LINE TABLE

Line #	Length	Direction
L56	25.46	N44°36'40"E
L57	316.00	N0°23'20"W
L58	8.49	N45°23'20"W
L59	213.84	S89°36'40"W

WATER CURVE TABLE

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

EPC 9/21/2021



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212 N. WASHCATCH AVE., STE 203
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
PROFESSIONAL ENGINEER
4-20-21

REVISIONS:

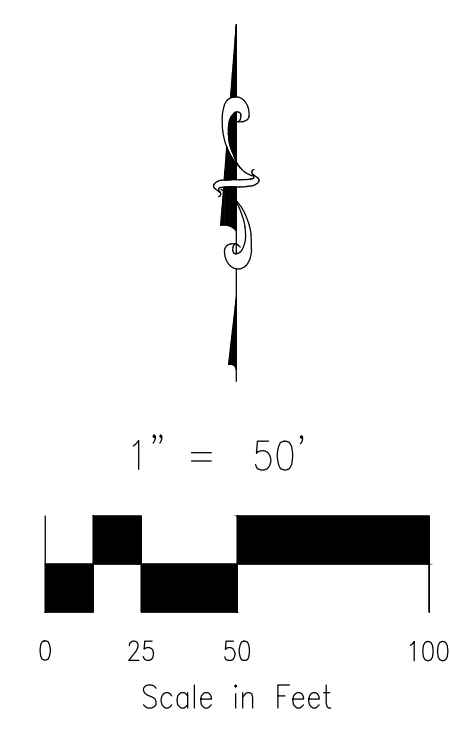
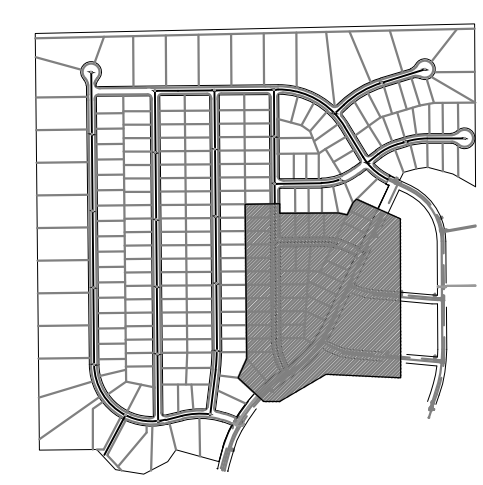
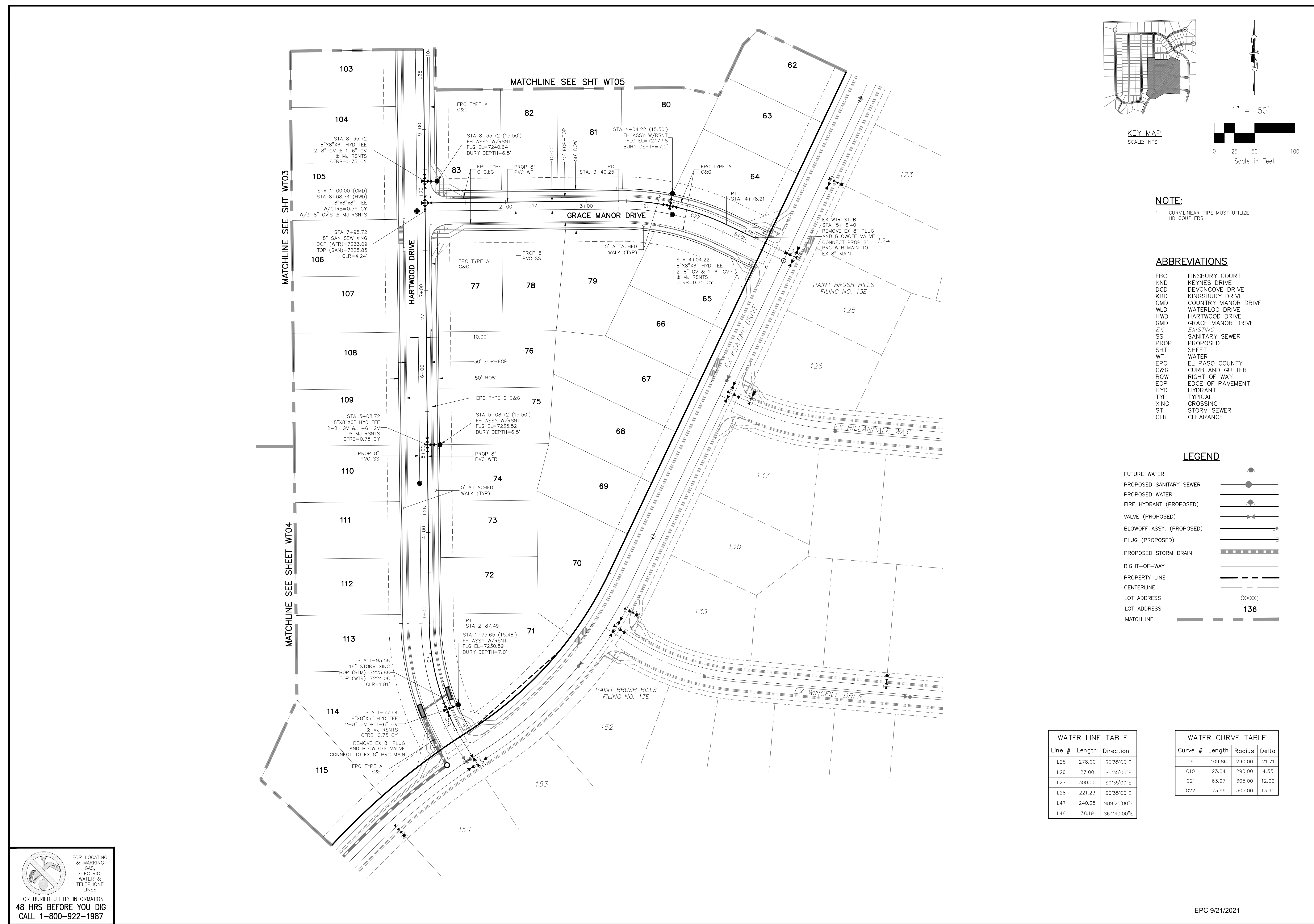
NO.	DATE	BY	DESCRIPTION

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CAUTION

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KEY MAP
SCALE: NTS

NOTE:

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

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 | (XXXX) |
| LOT ADDRESS | 136 |
| MATCHLINE | --- |

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: 04/06/2021
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

CIVIL CONSULTANTS, INC.

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

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

PROFESSIONAL ENGINEER
37160
4-20-21

REVISIONS:

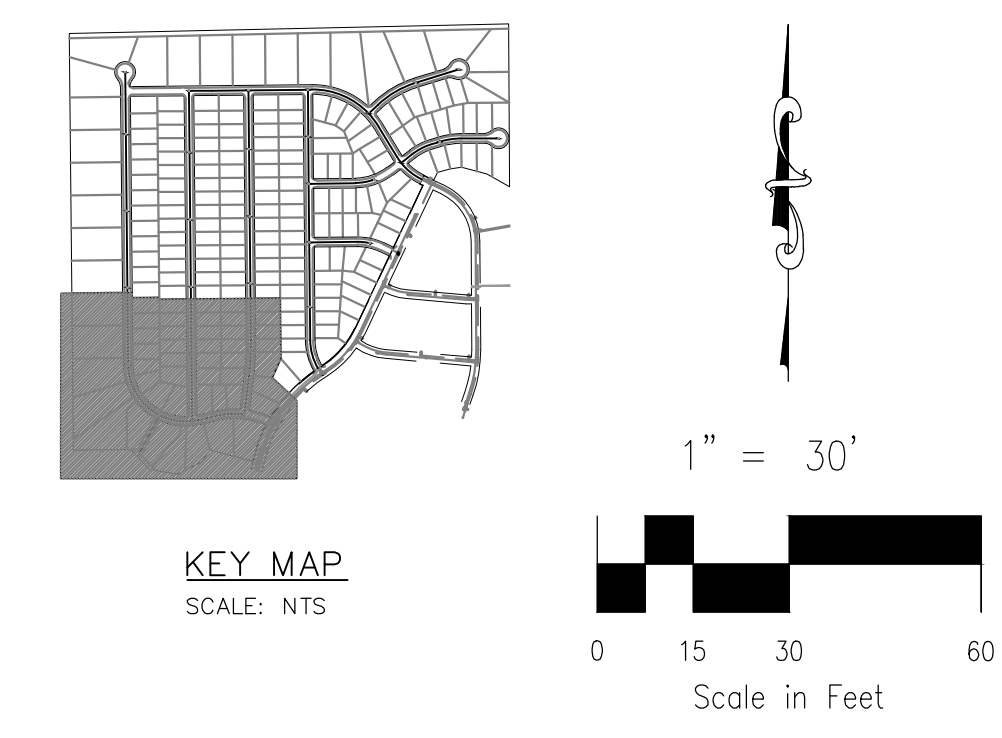
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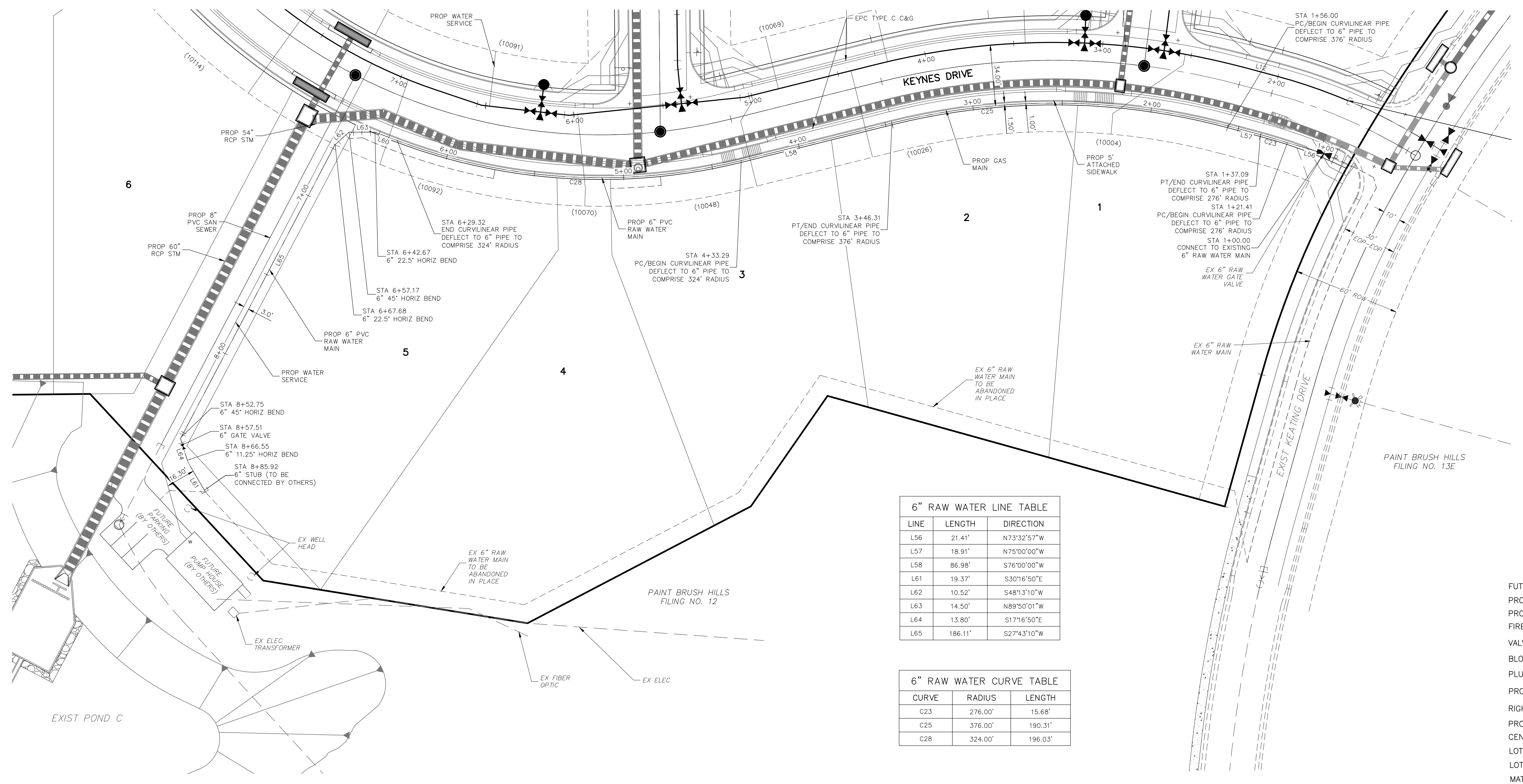
EPC 9/21/2021

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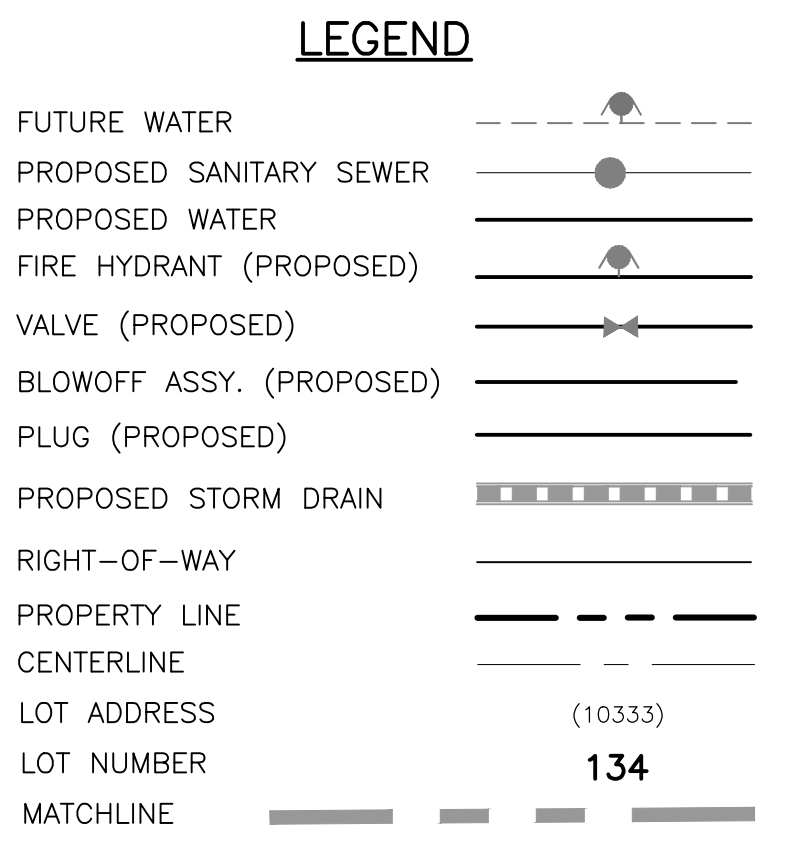
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 - TOP TOP OF PIPE
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 - CY CUBIC YARD



6" RAW WATER CURVE TABLE

CURVE	RADIUS	LENGTH
C23	276.00'	15.68'
C25	376.00'	190.31'
C28	324.00'	196.03'



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REVISIONS:

NO.	DATE:	BY:	DESCRIPTION:

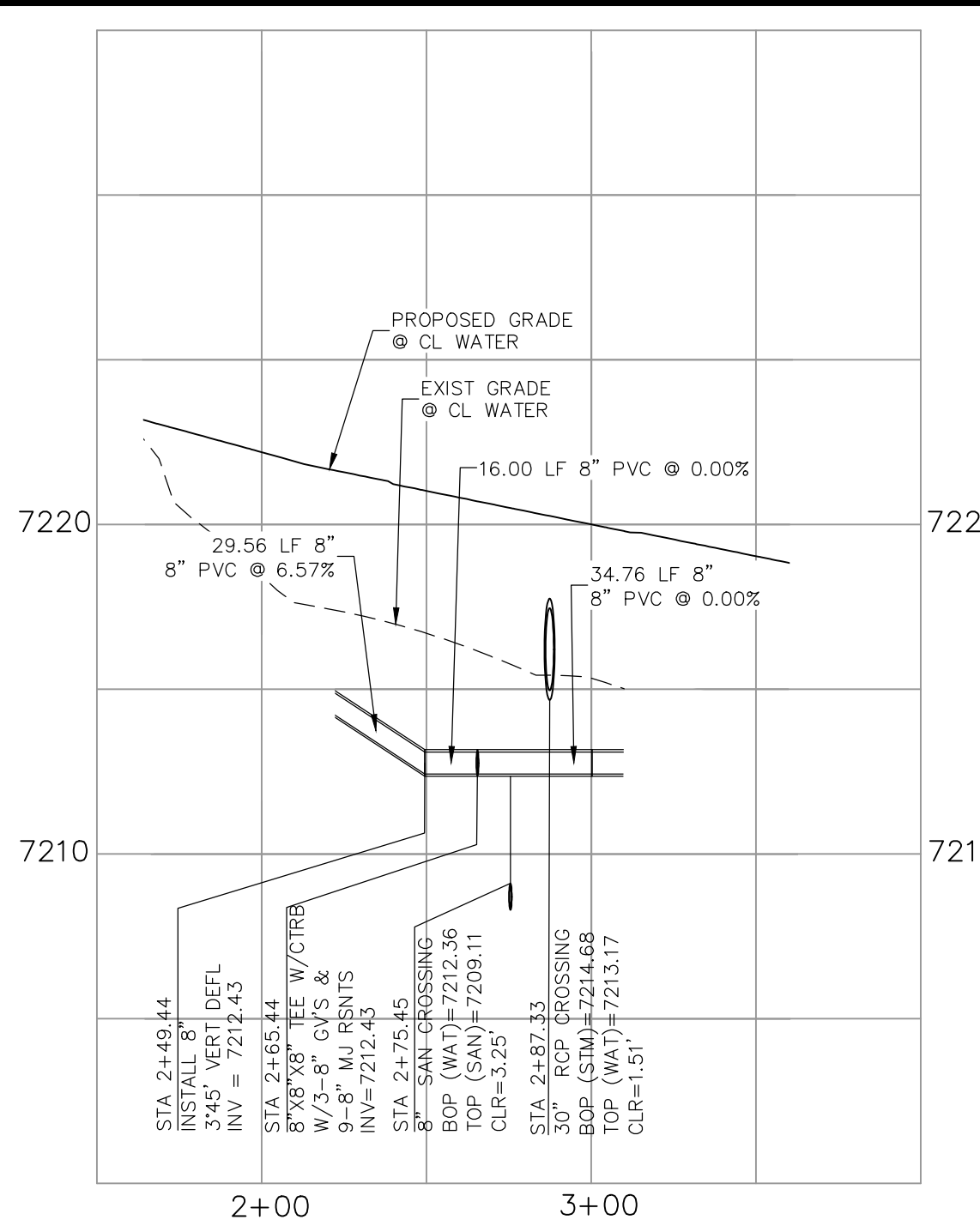
APPROVED BY: _____ DATE: _____

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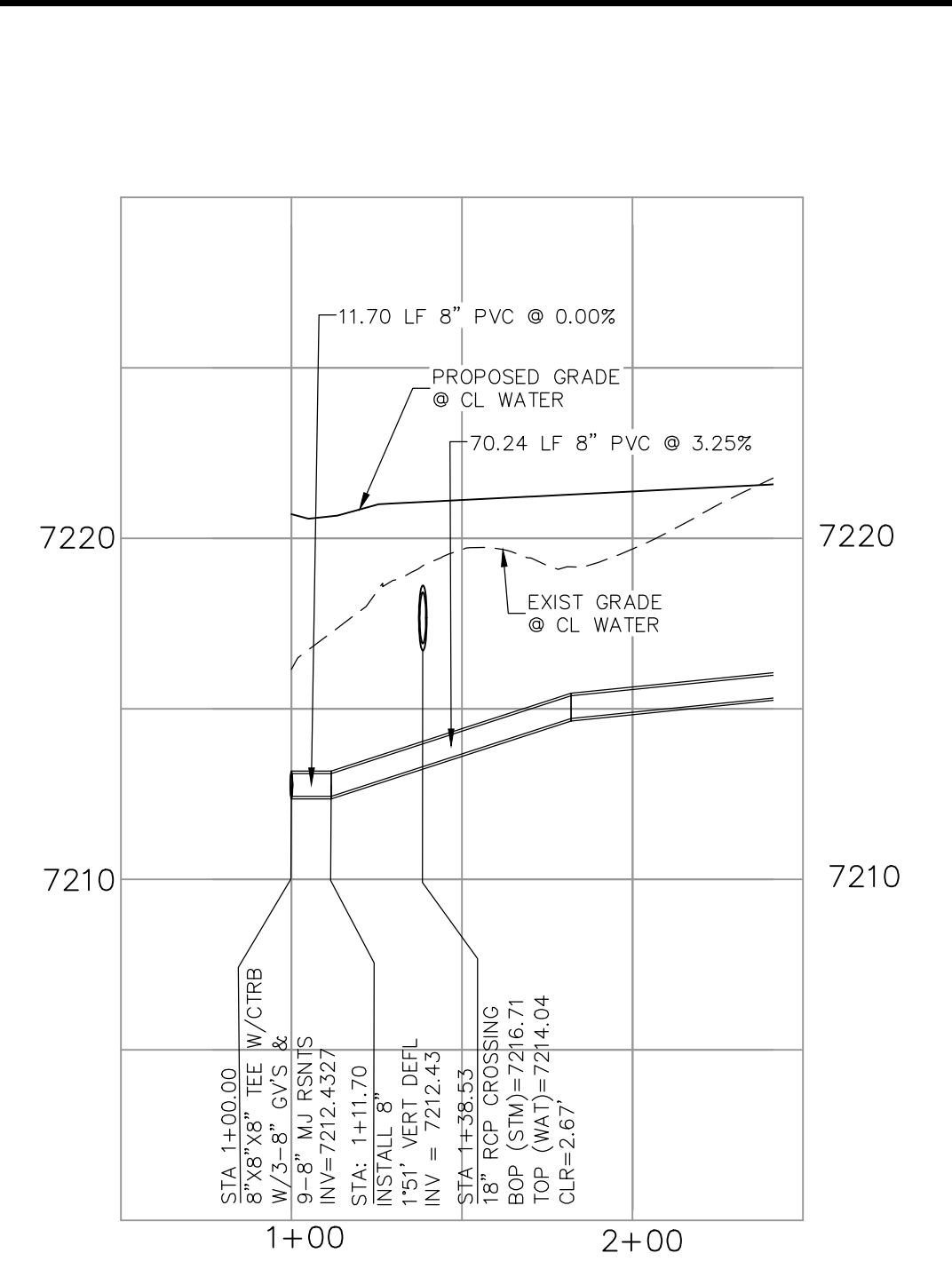
CAUTION

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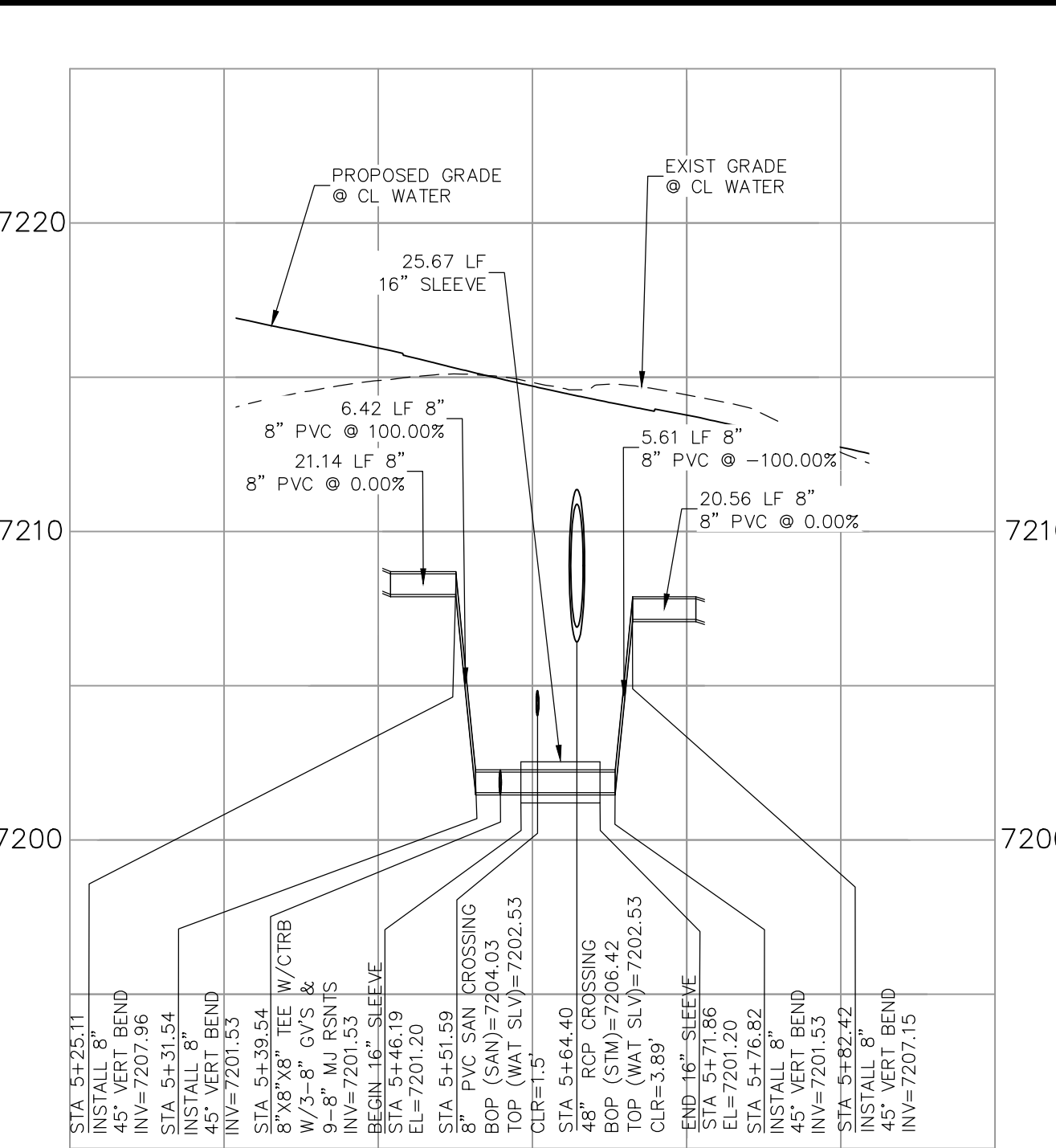
EPC 9/21/2021



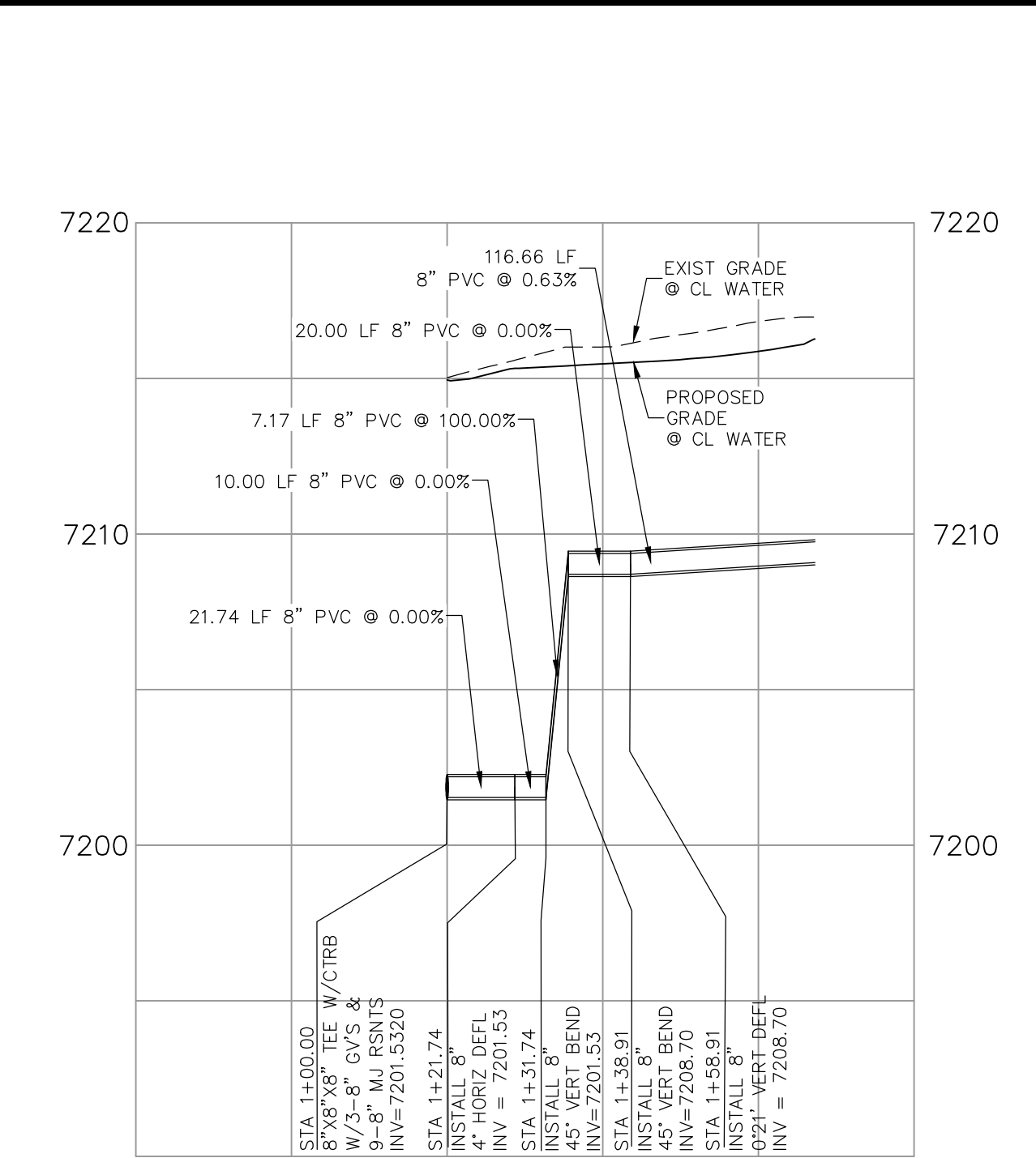
**KEYNES DRIVE
WATER HALF DEFLECTION
STA 2+87.33**



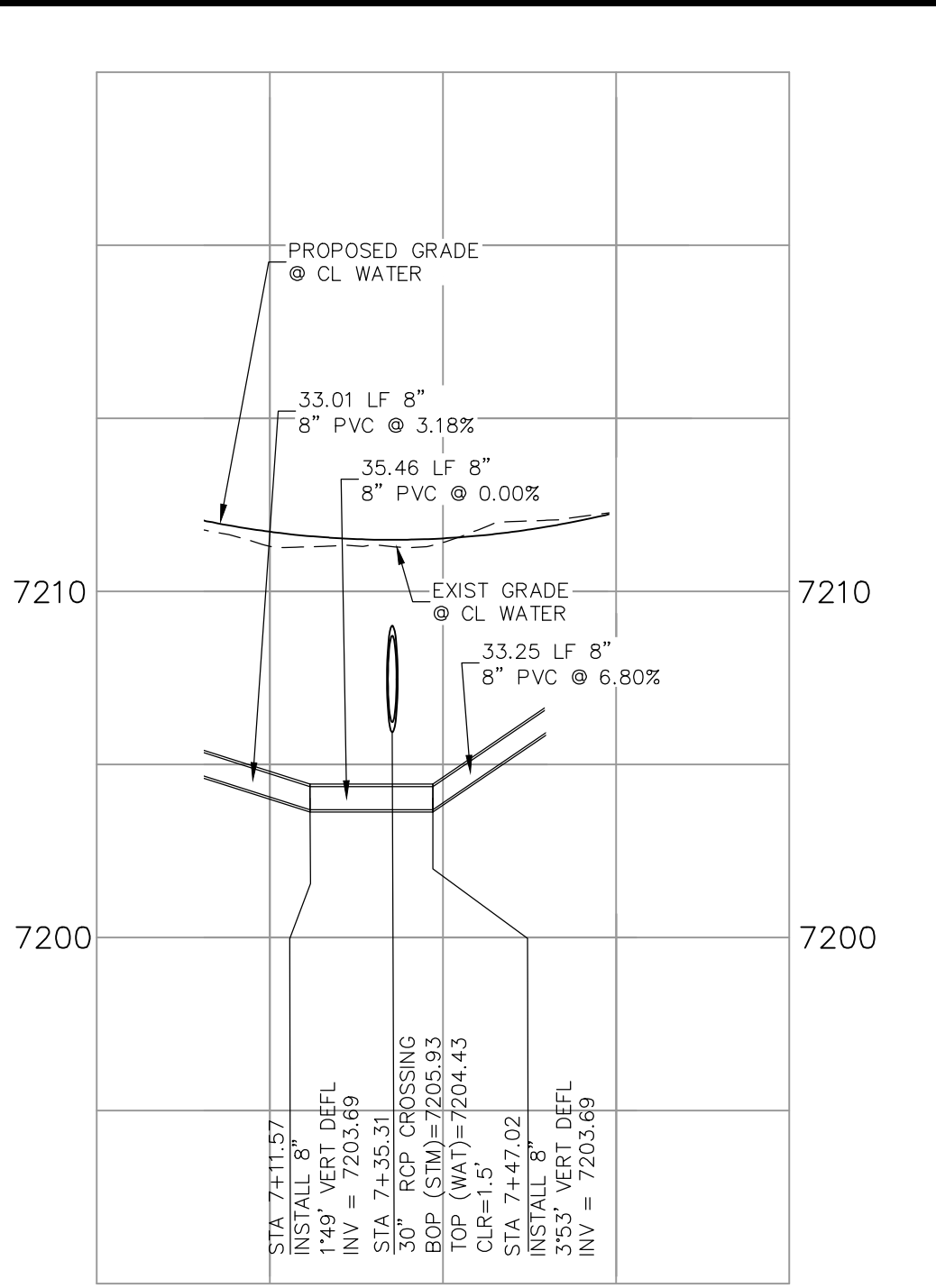
**COUNTRY MANOR DRIVE
WATER HALF DEFLECTION
STA 1+00.00**



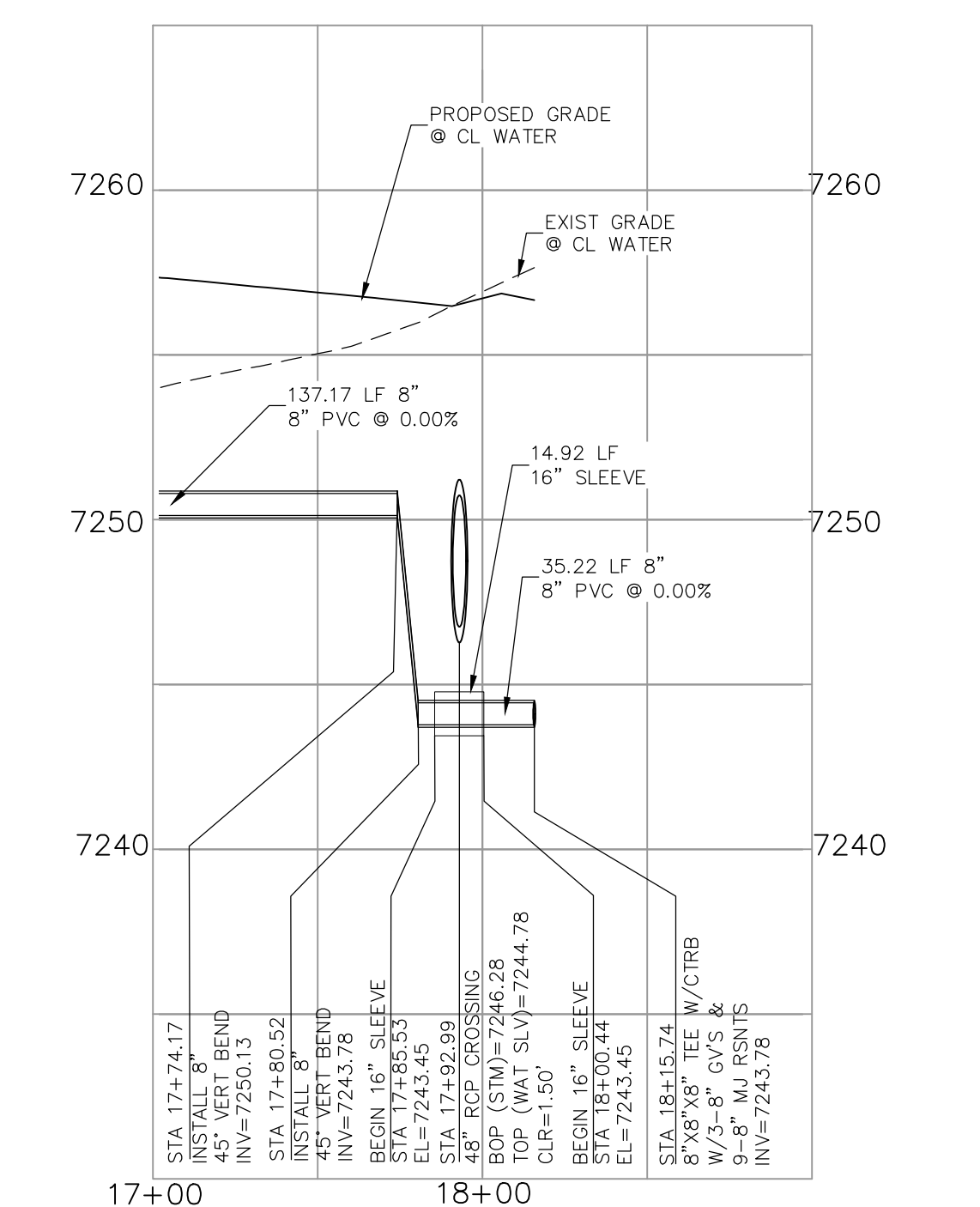
**KEYNES DRIVE
WATER LOWERING
STA 5+64.40**



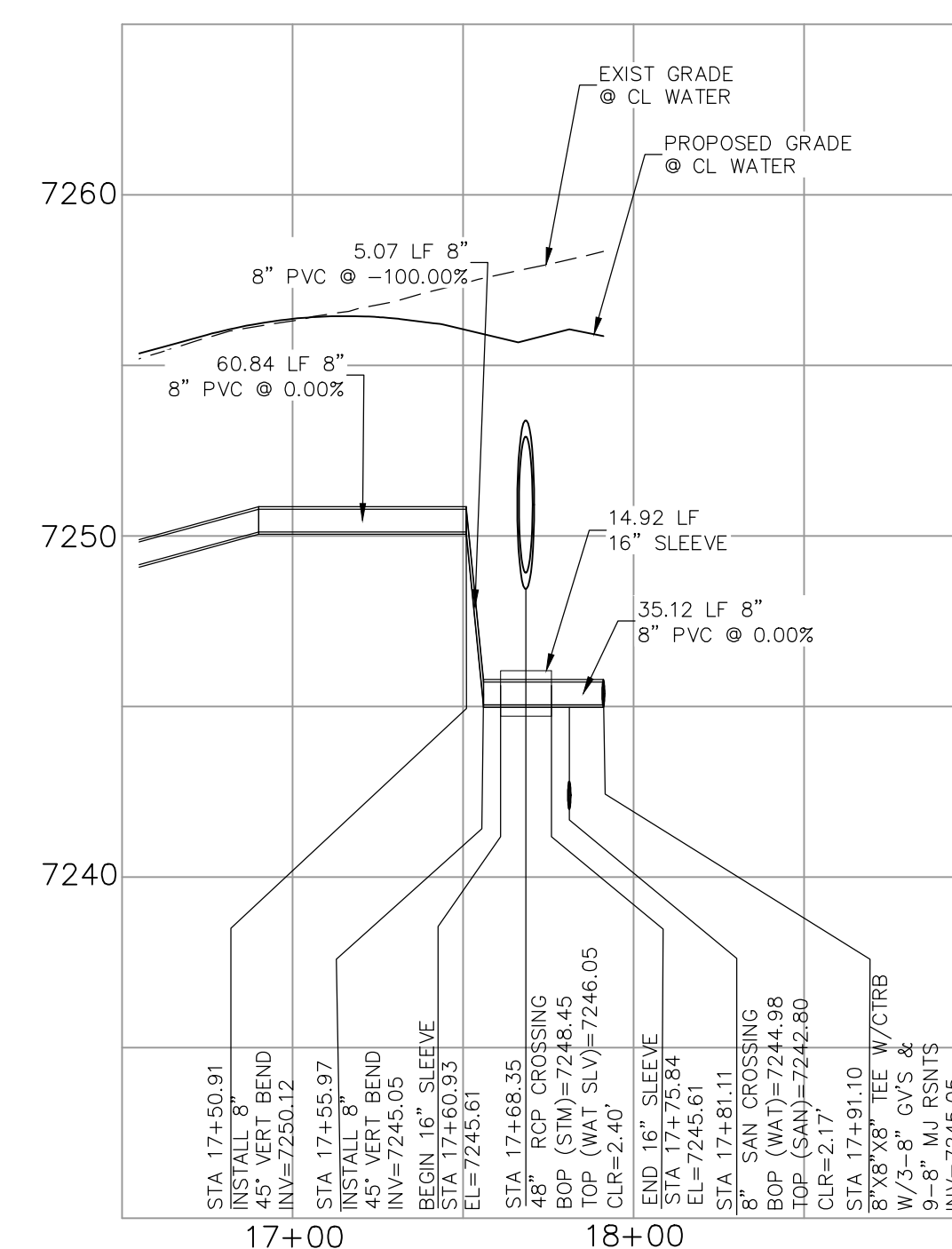
**KINGSBURY DRIVE
WATER HALF LOWERING
STA 1+00.00**



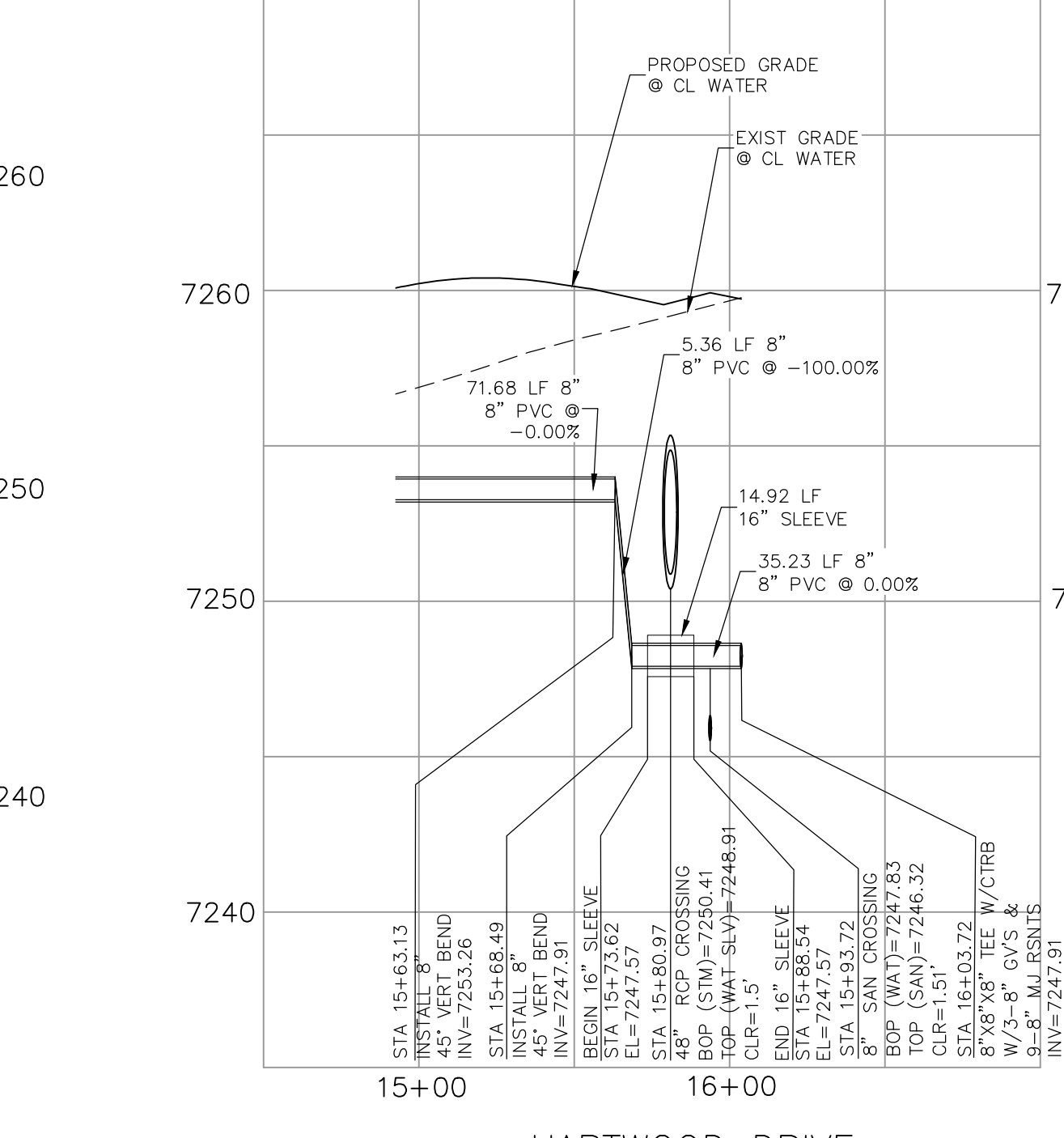
**KEYNES DRIVE
WATER DEFLECTION
STA 7+35.31**



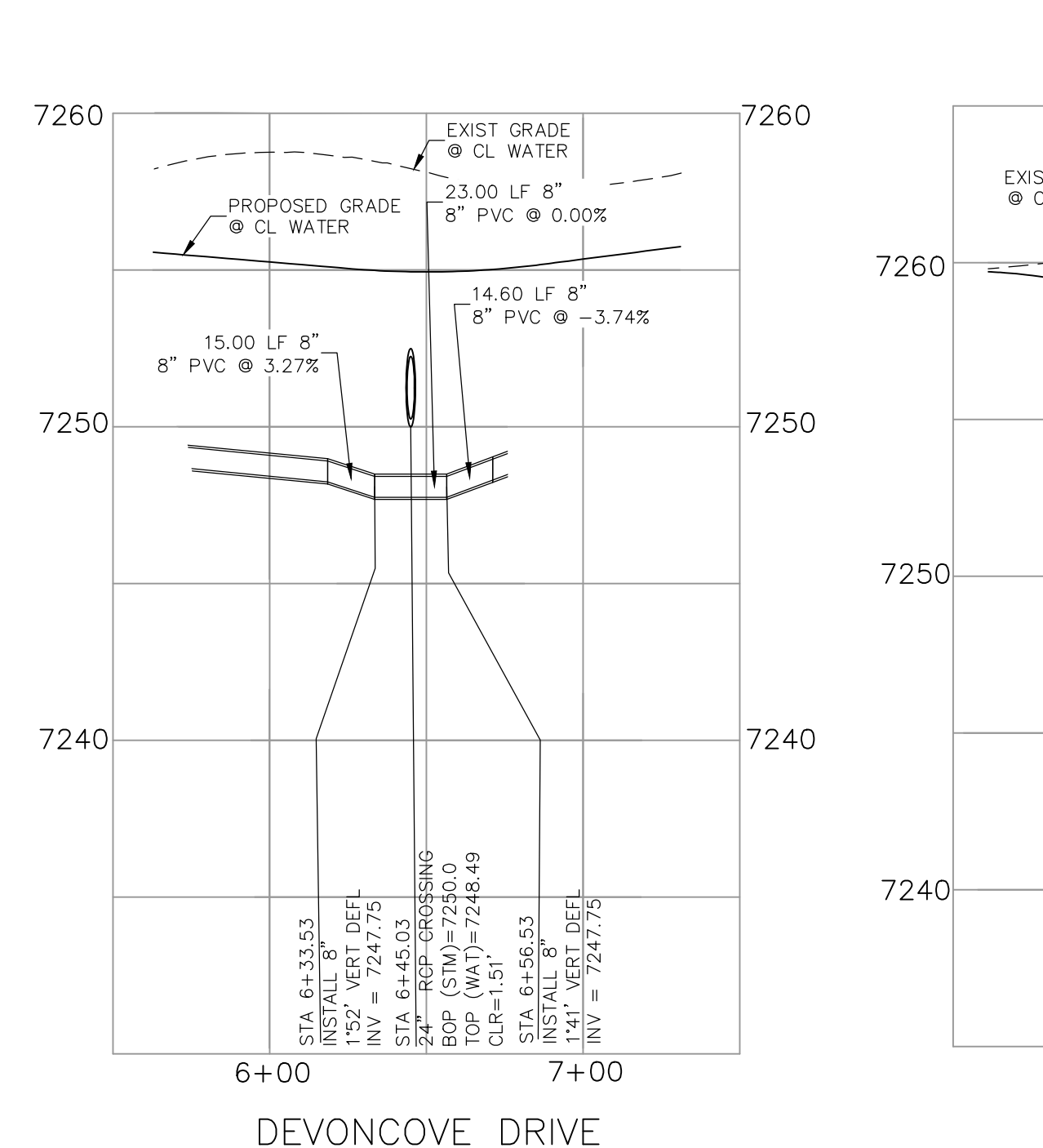
**KINGSBURY DRIVE
WATER HALF LOWERING
STA 17+92.99**



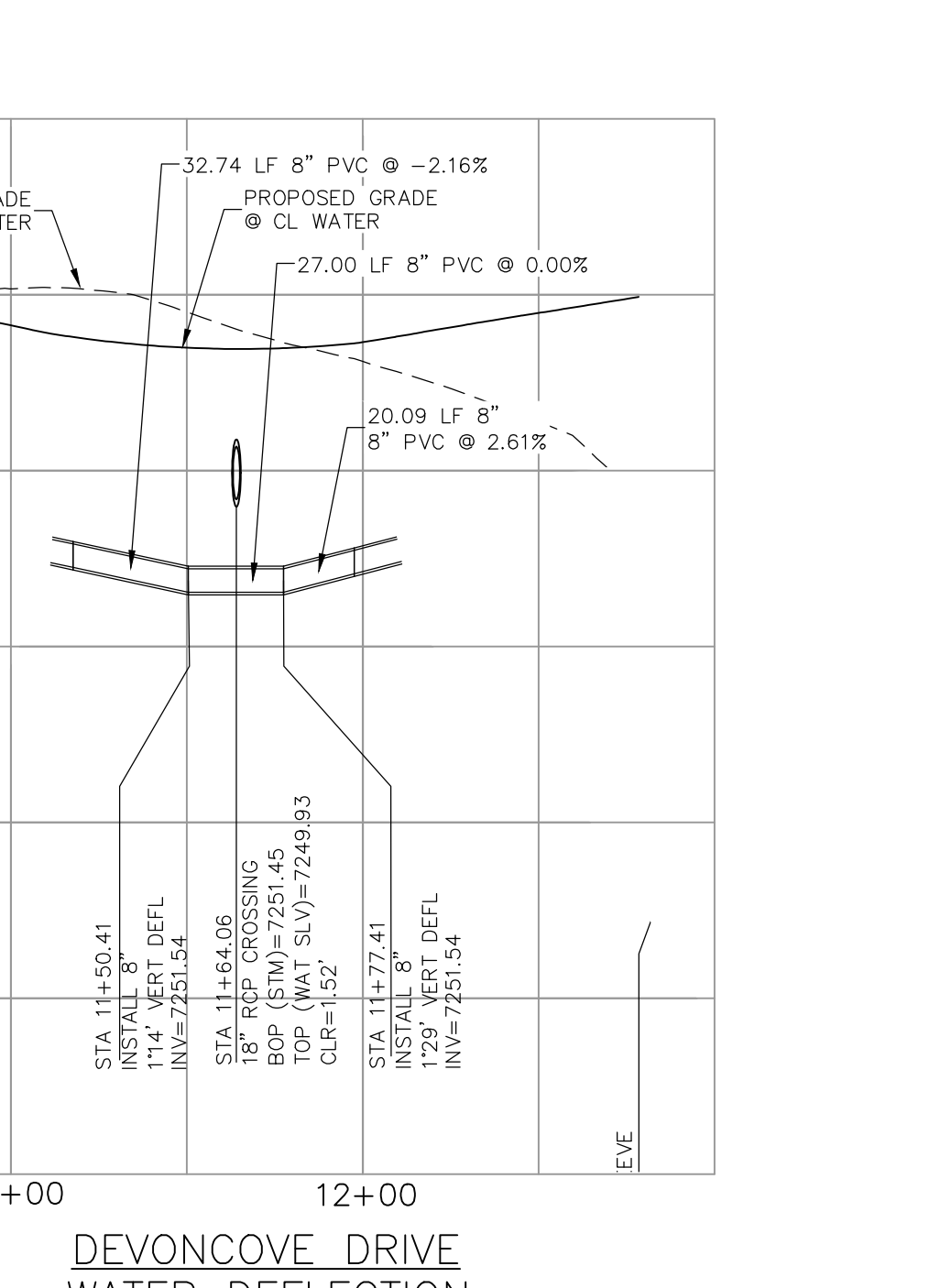
**COUNTRY MANOR DRIVE
WATER HALF LOWERING
STA 17+68.35**



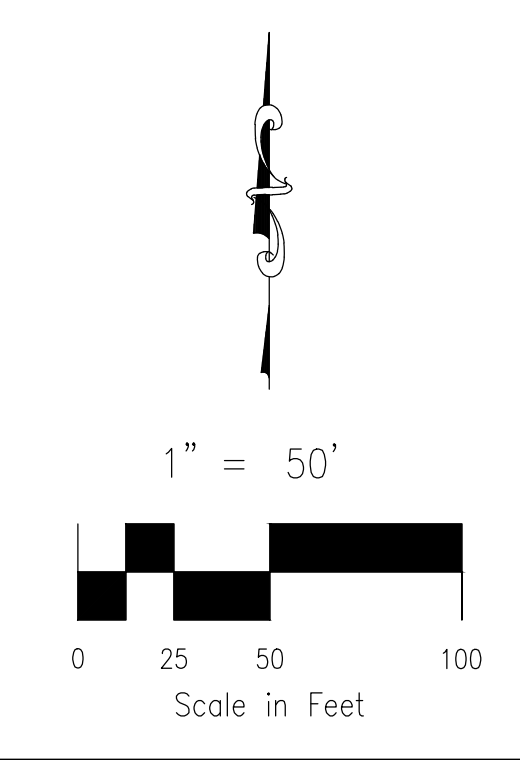
**HARTWOOD DRIVE
WATER HALF LOWERING
STA 15+80.97**



**DEVONCOVE DRIVE
WATER DEFLECTION
STA 6+45.03**



**DEVONCOVE DRIVE
WATER DEFLECTION
STA 11+64.06**



PAINT BRUSH HILLS FILING NO. 14

WATER LOWERING & DEFLECTION DETAILS

PROJECT NO. 10-014 DATE: 04/06/2021

DESIGNED BY: JWP 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

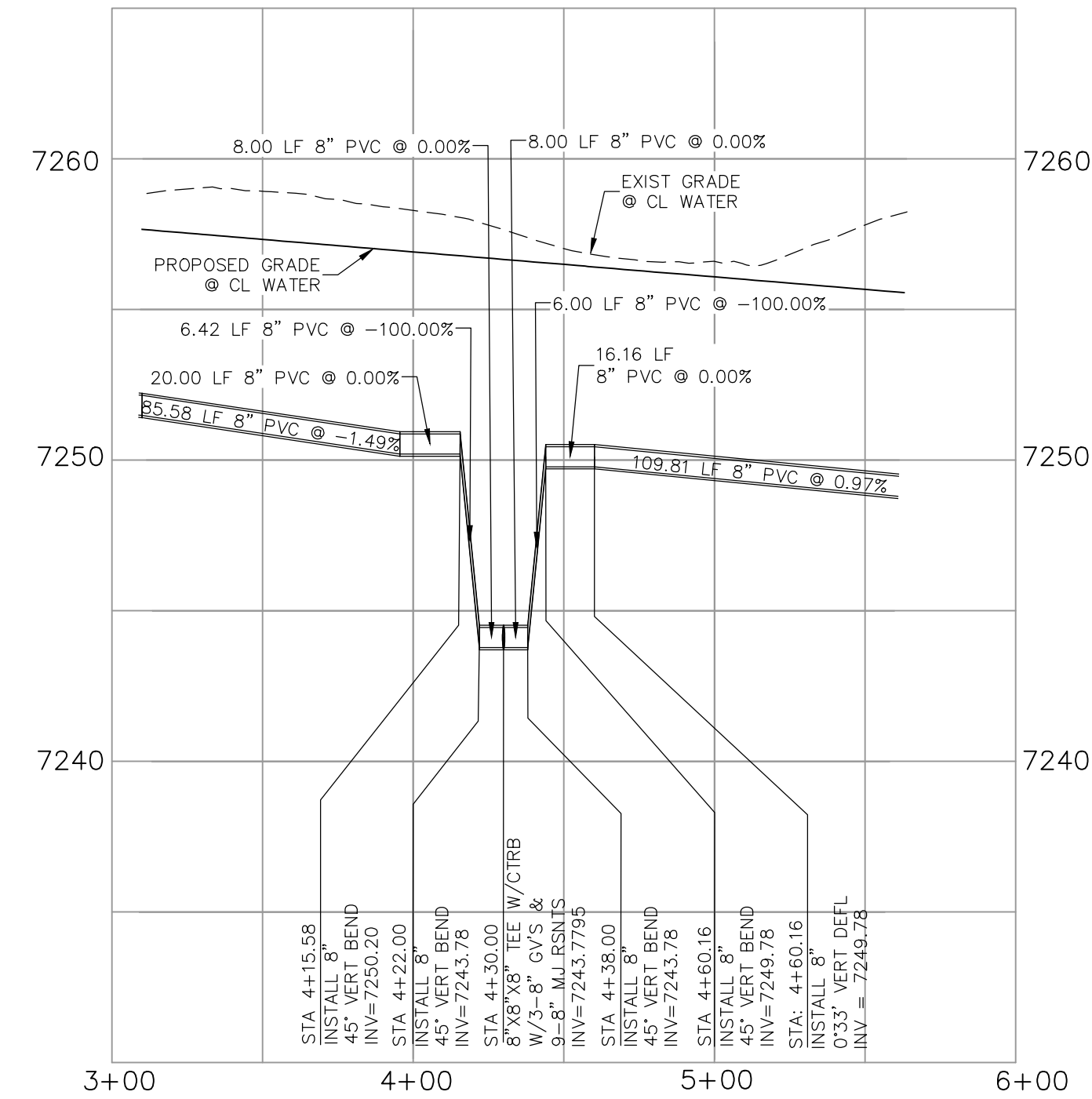
REGISTERED PROFESSIONAL ENGINEER
37160
4-20-21

NO.	DATE	BY	DESCRIPTION

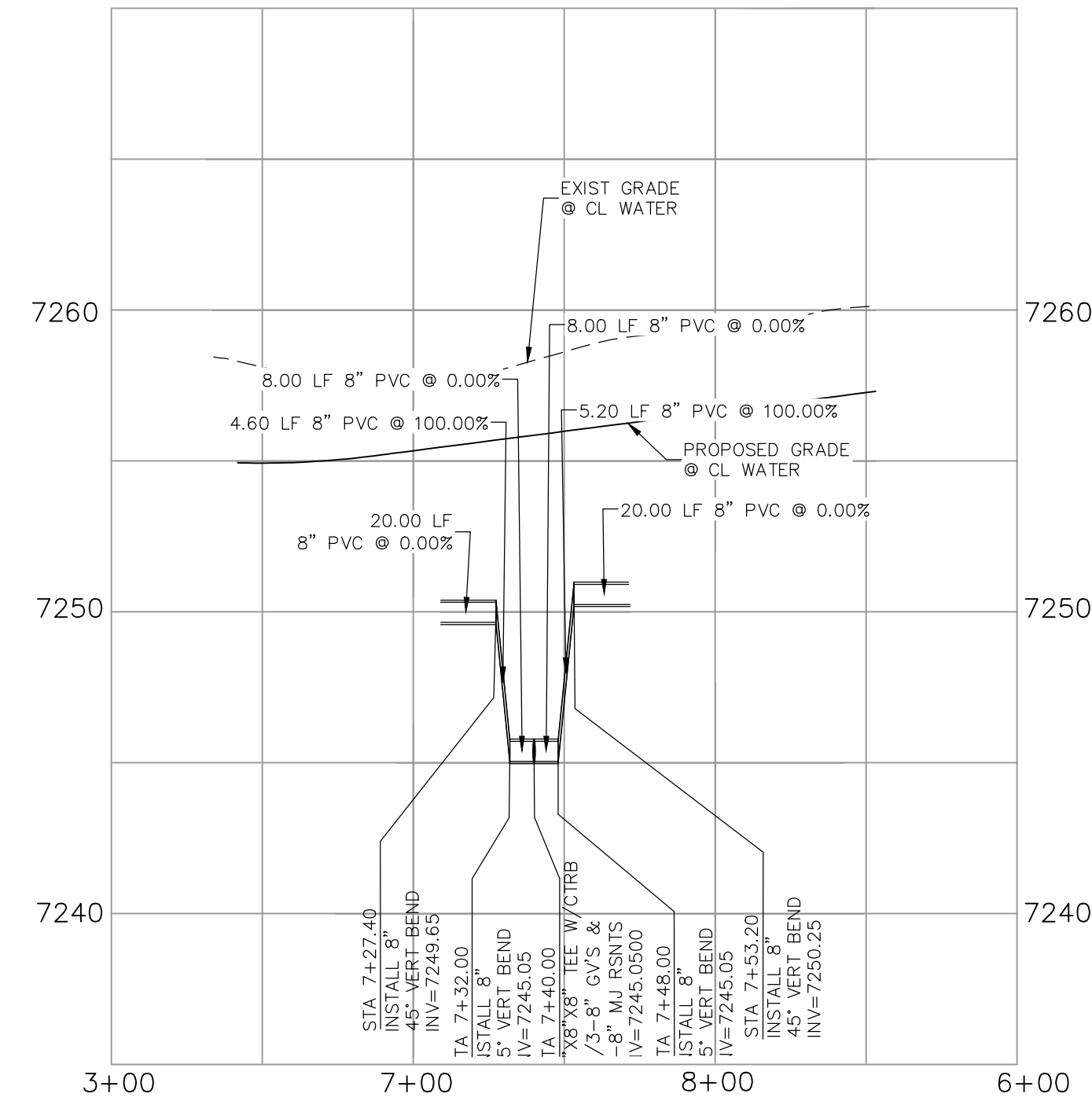
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

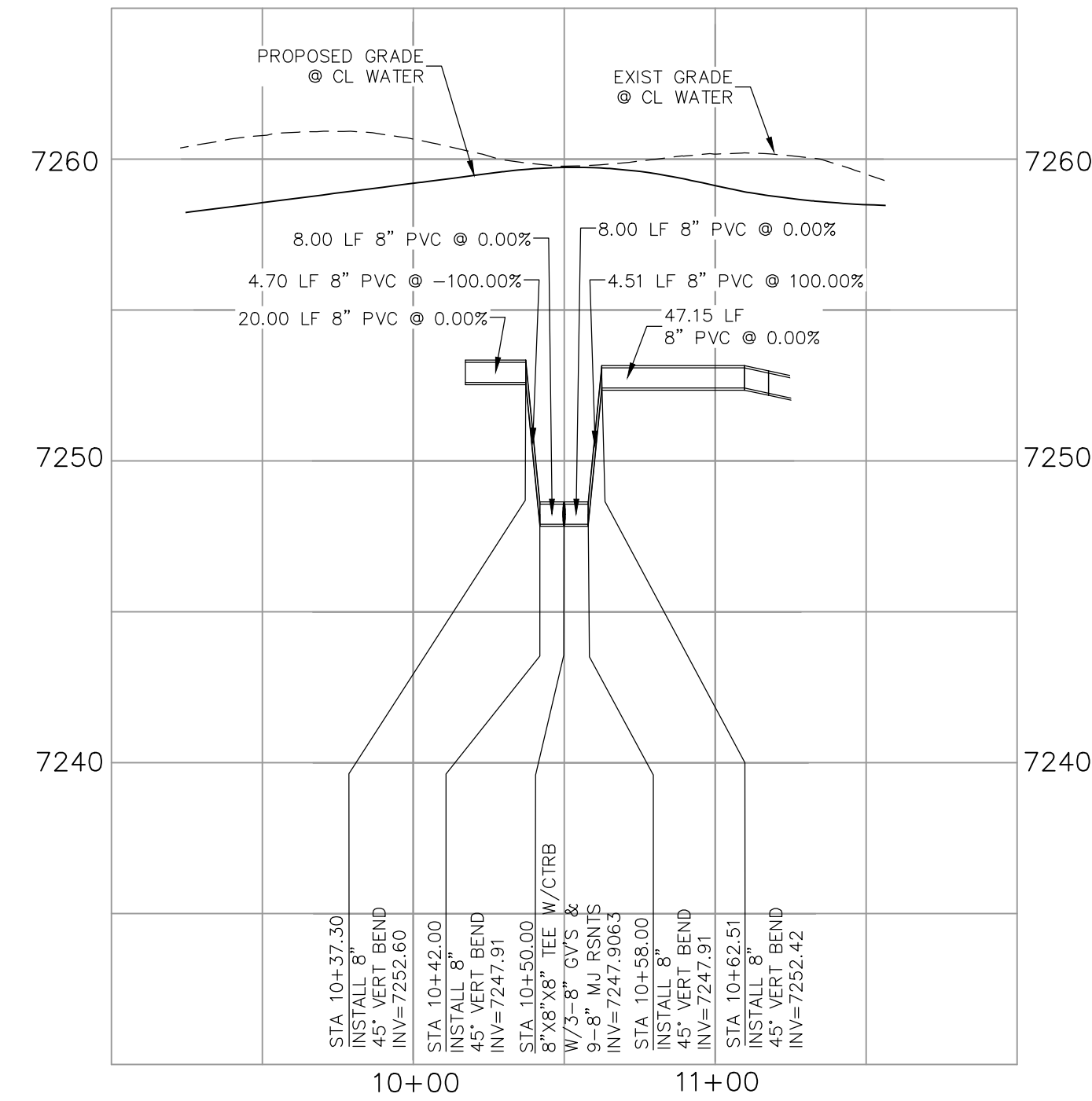
EPC 9/21/2021



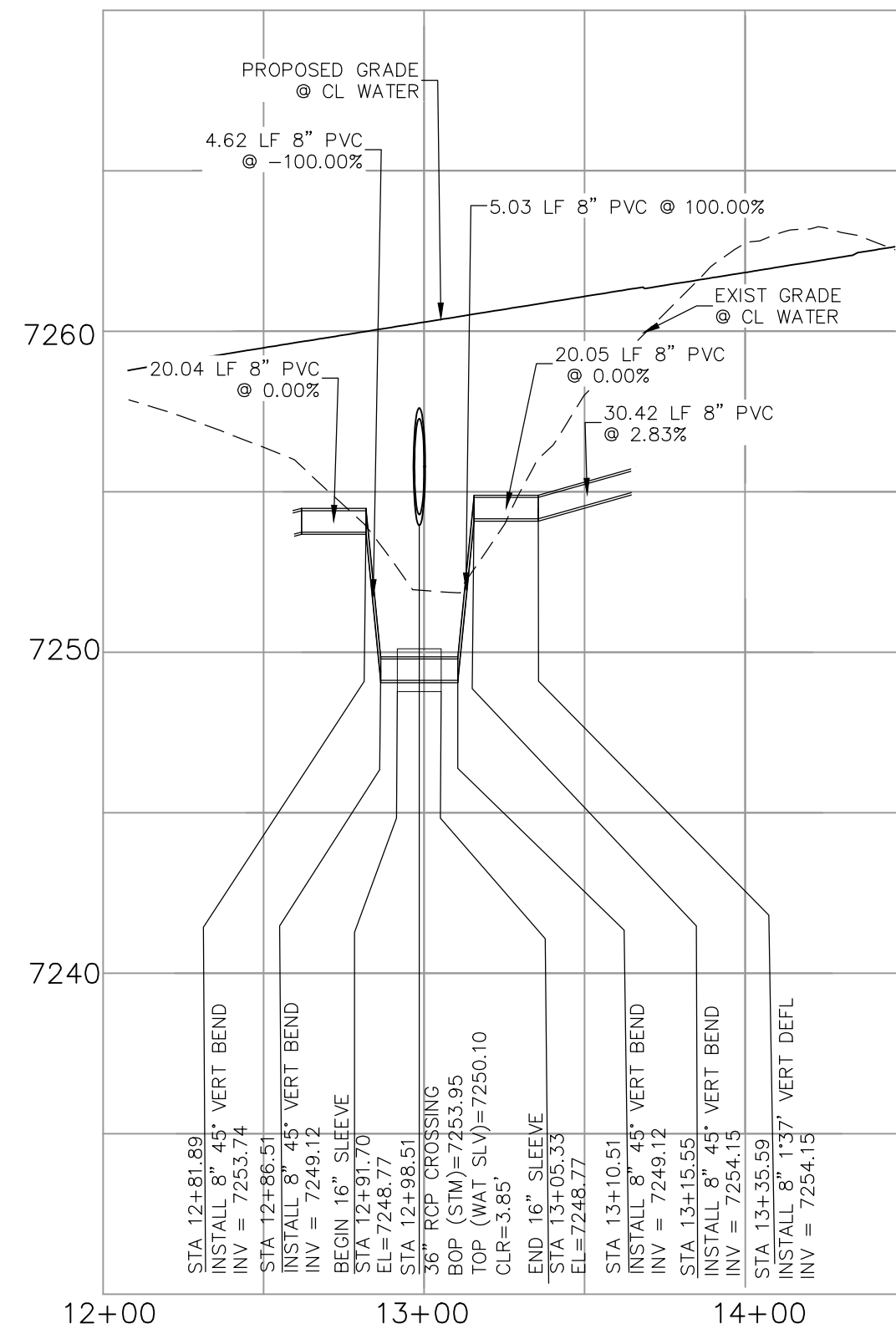
DEVONCOVE DRIVE
WATER LOWERING
STA 4+30.00



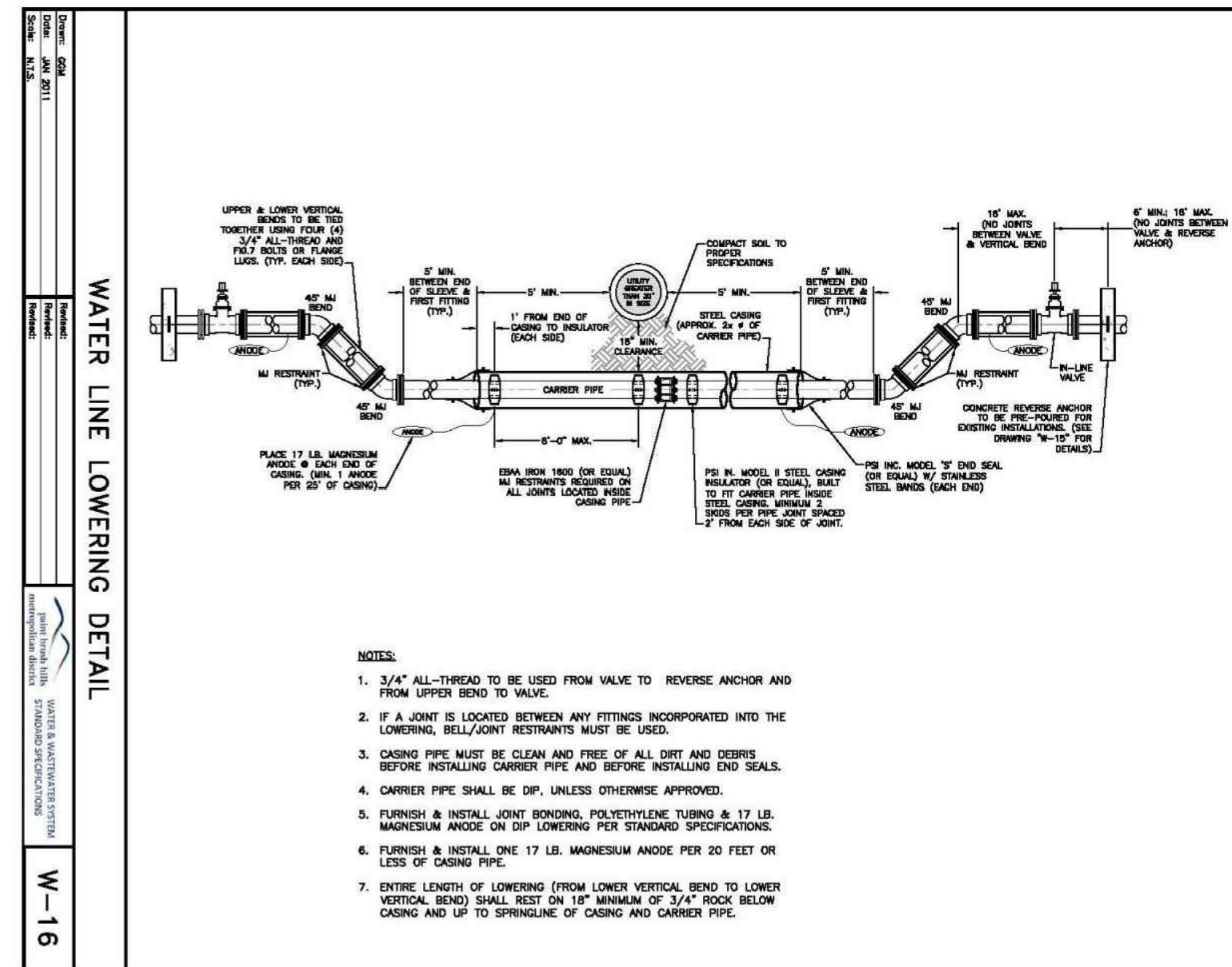
DEVONCOVE DRIVE
WATER LOWERING
STA 7+40.00



DEVONCOVE DRIVE
WATER LOWERING
STA 10+50.00



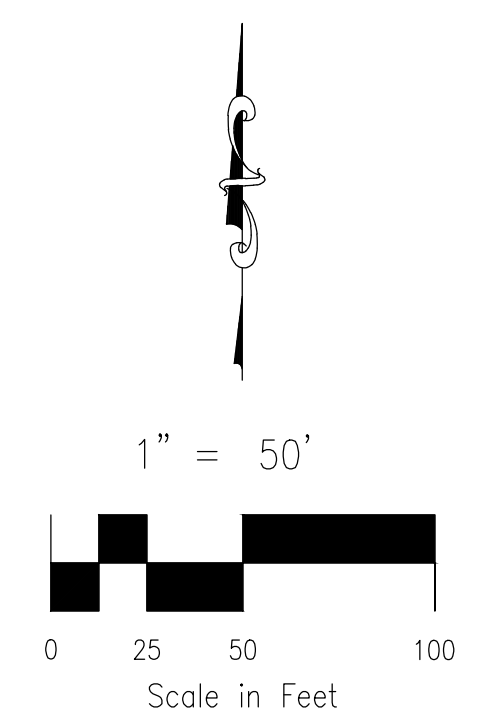
DEVONCOVE DRIVE
WATER LOWERING
STA 12+98.51



TYPICAL WATER LOWERING &
SLEEVE DETAIL

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

EPC 9/21/2021



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



MARCIL A. SANCHEZ, COLORADO P.E. NO. 377160
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 377160
4-20-21

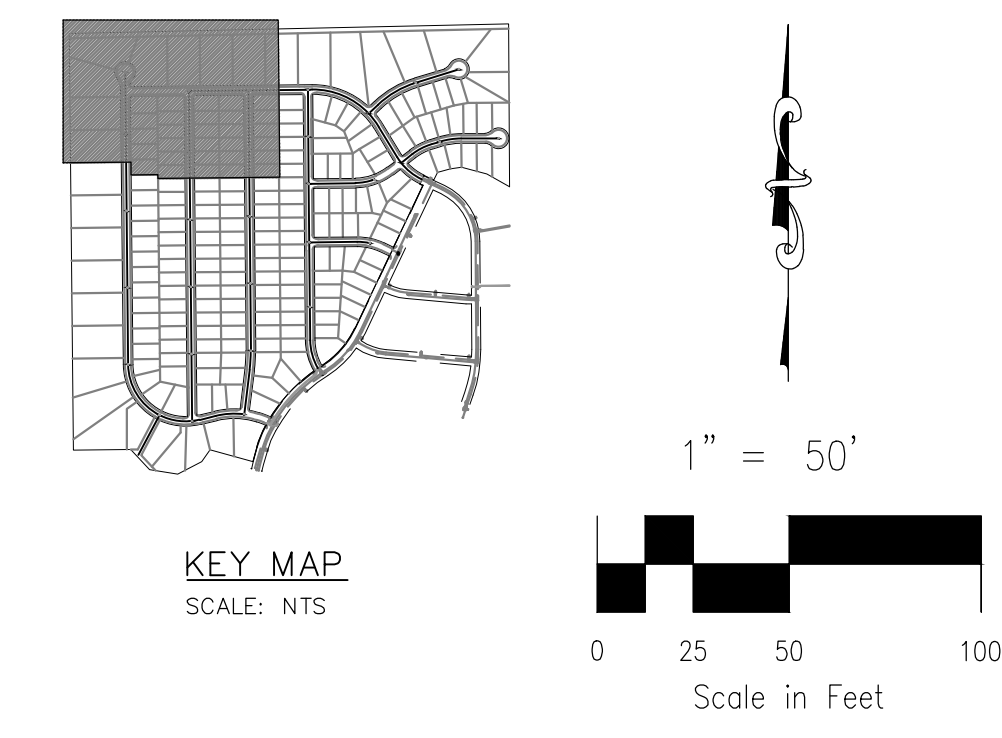
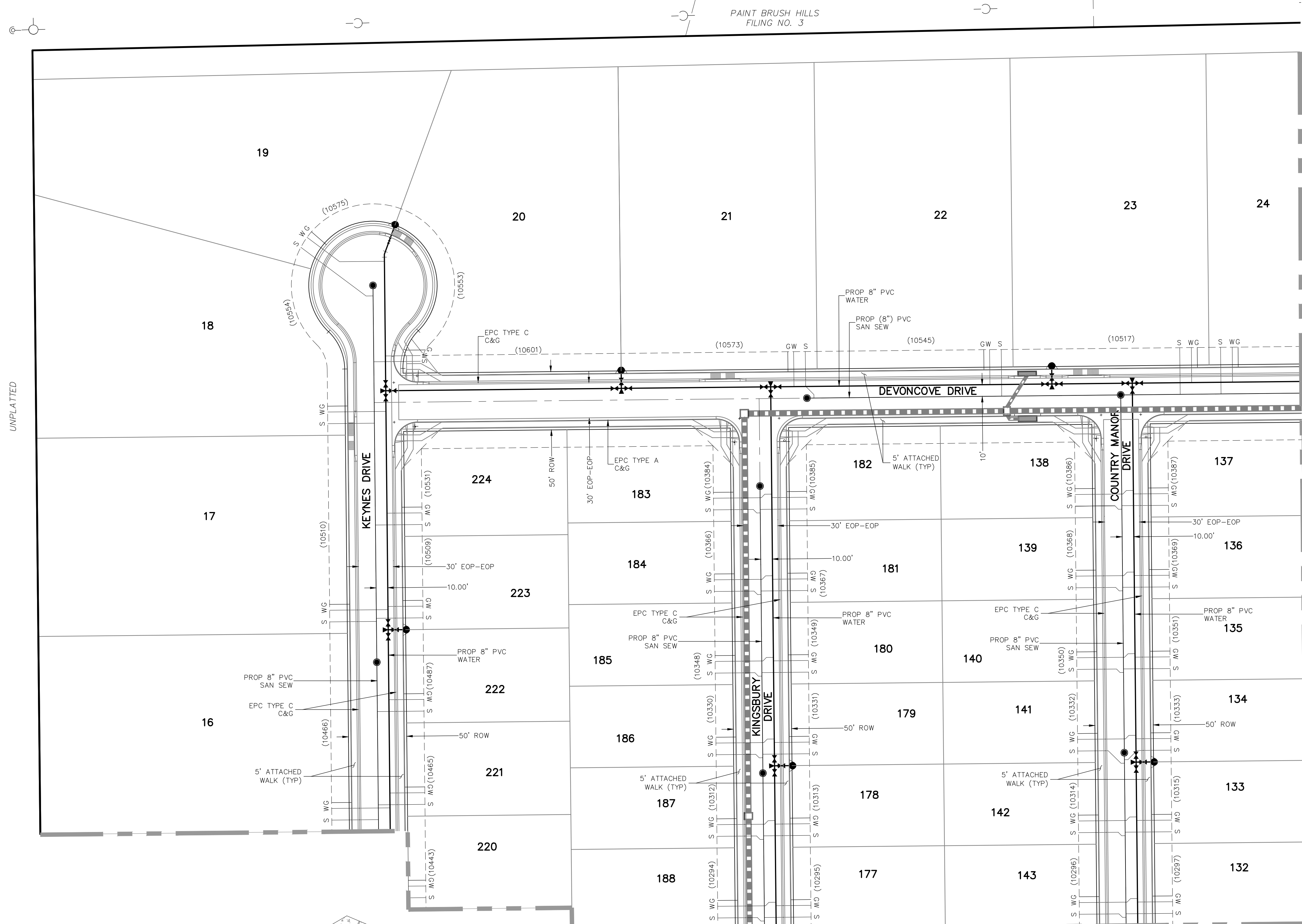
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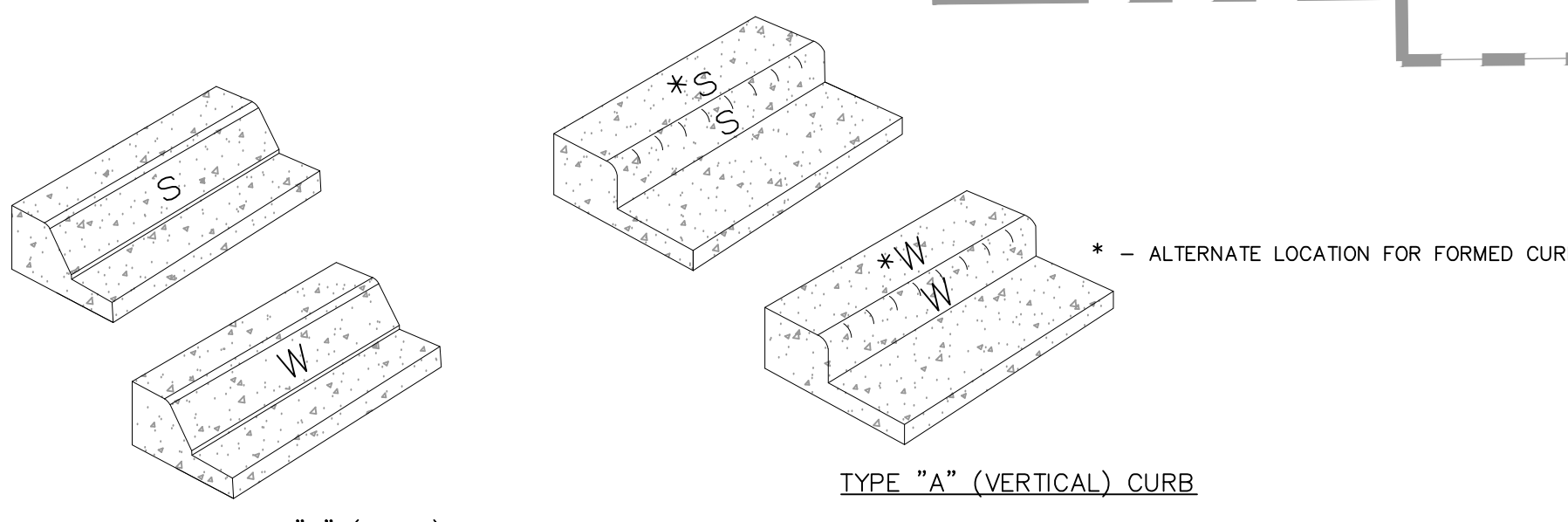
PROJECT NO. 10-014	SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'
DESIGNED BY: JWP	SM
DRAWN BY: JWP	GW
CHECKED BY: JWP	GW
DATE: 04/06/2021	SHEET 19 OF 27
WT09	WT09

CAUTION

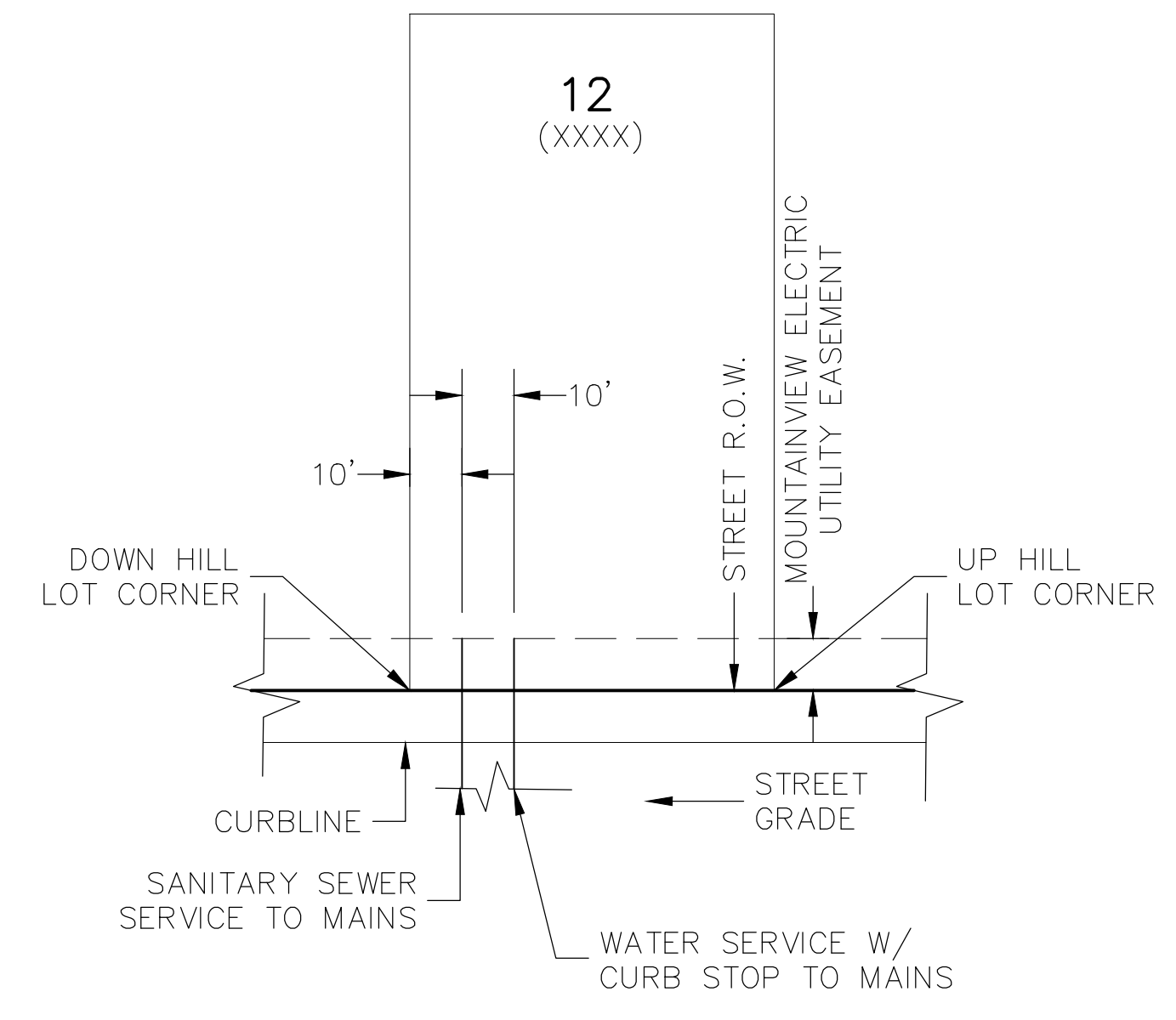
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- PAINT BRUSH HILLS UTILITY NOTES:**
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PAINT BRUSH HILLS FILING NO. 14

UTILITY SERVICE PLANS

PROJECT NO. 10-014 DATE: 04/09/2021

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

DRAWN BY: SM SHEET 20 OF 27

CHECKED BY: GW UT01

212 N. WABATCH AVE., STE 305
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

PROFESSIONAL ENGINEER
NO. 37160
4-20-21

REVISIONS:

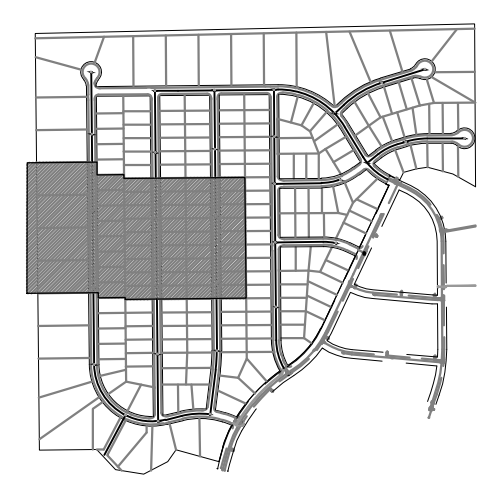
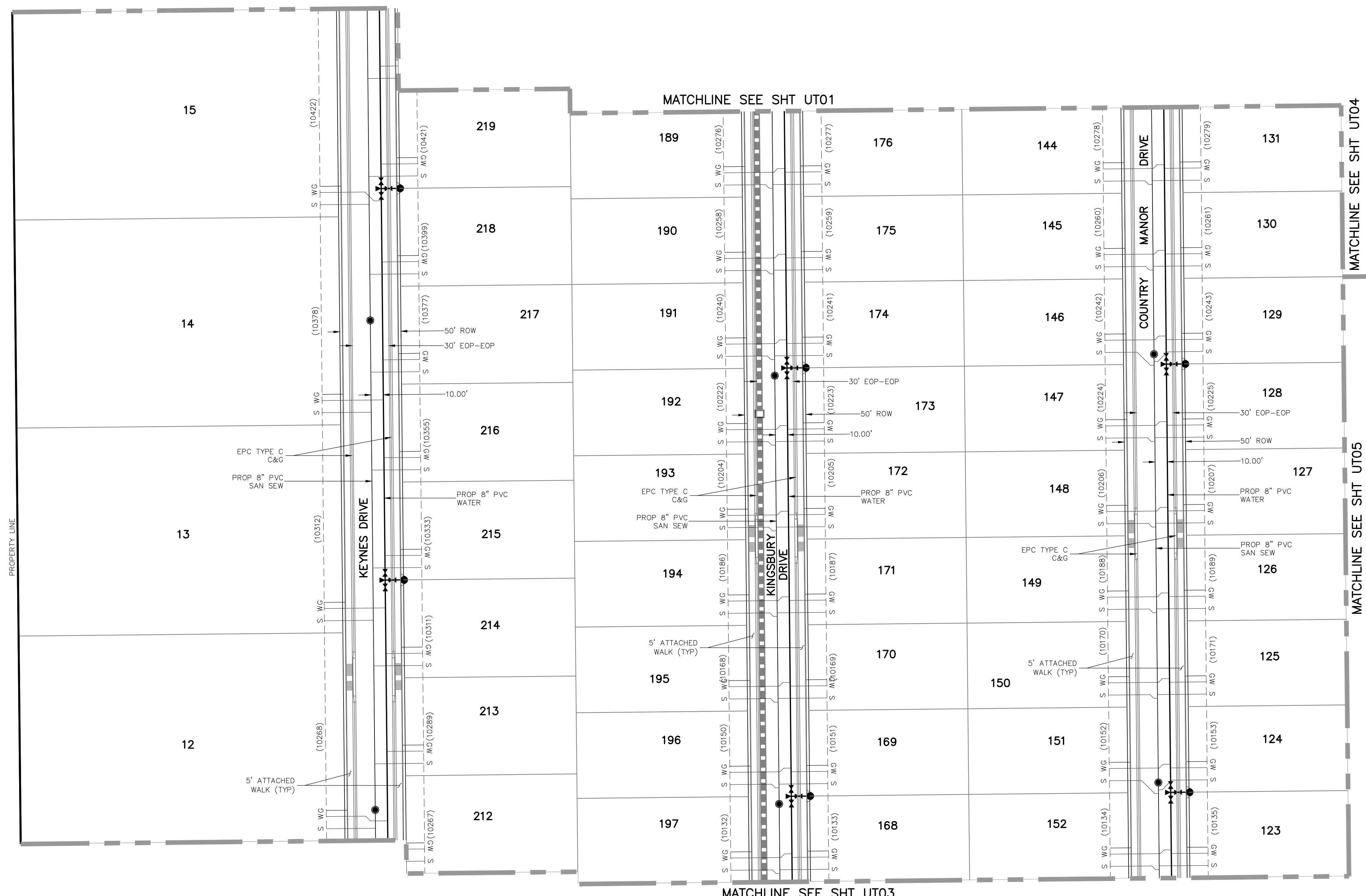
NO.	DATE:	BY:	DESCRIPTION:

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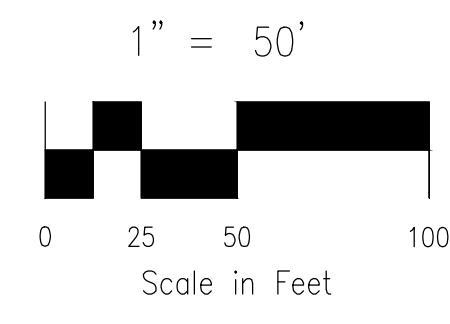
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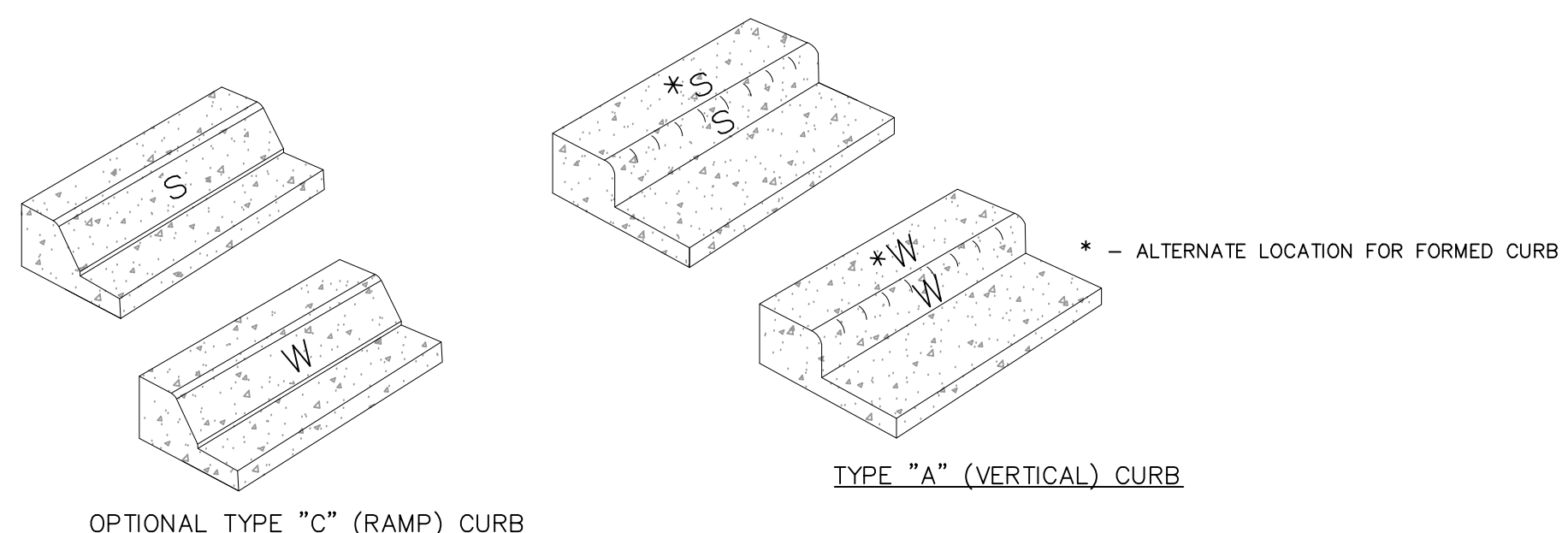


KEY MAP
SCALE: NTS



PAIN BRUSH HILLS UTILITY NOTES:

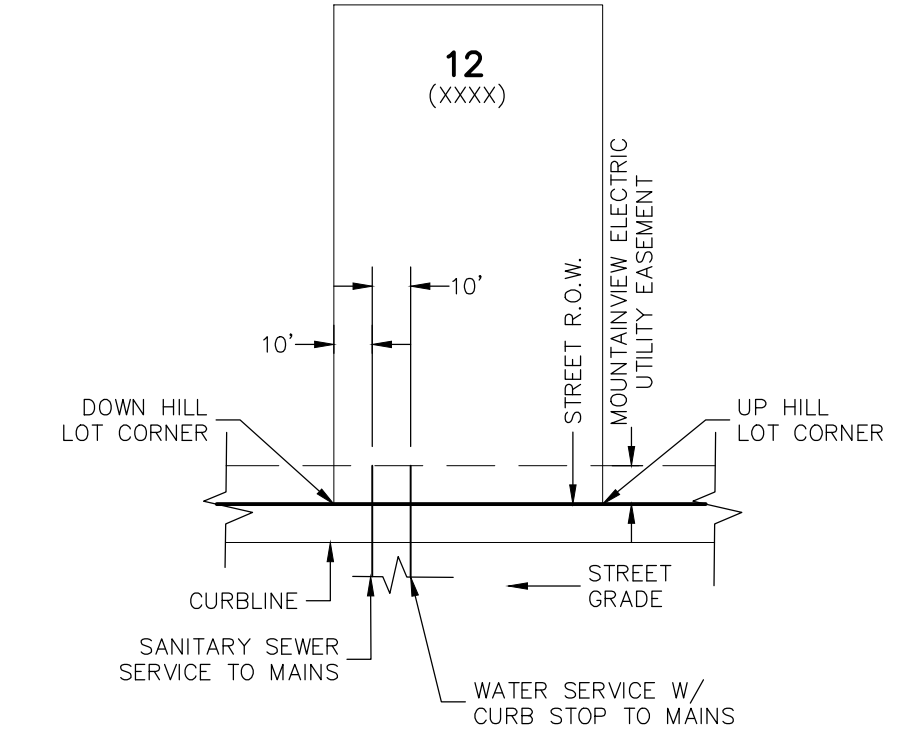
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CURB MARKING LOCATION DETAIL
N.T.S.

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TYPICAL UTILITY SERVICE LOCATIONS DETAIL
N.T.S.

*SEE PLANS FOR NON-TYPICAL DIMENSIONS

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
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PAIN BRUSH HILLS FILING NO. 14
UTILITY SERVICE PLANS
PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A
DESIGNED BY: GW
DRAWN BY: SM
CHECKED BY: GW
SHEET 21 OF 27
UT02

212 N. WABATCH AVE. STE 305
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
4-20-21

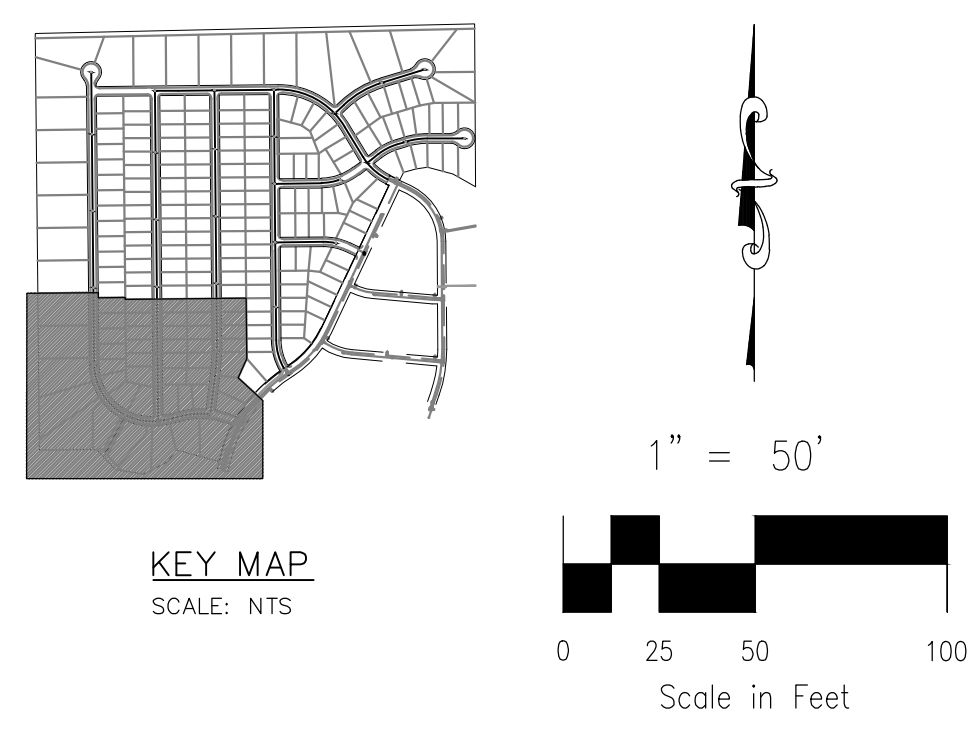
NO.	DATE	BY	DESCRIPTION

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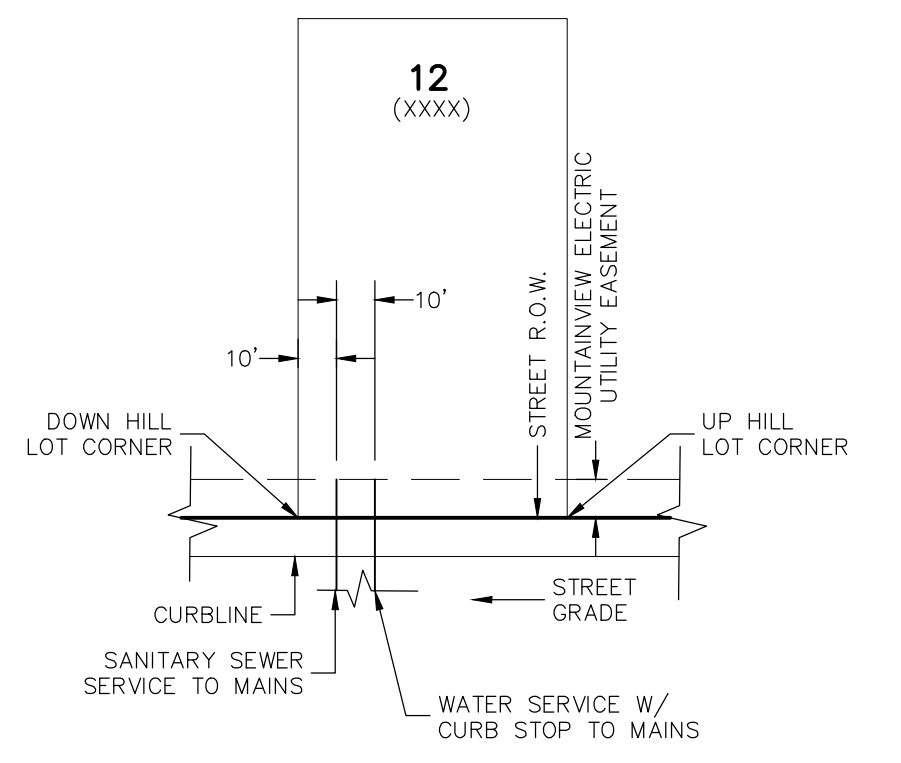
CAUTION

EPC 9/21/2021

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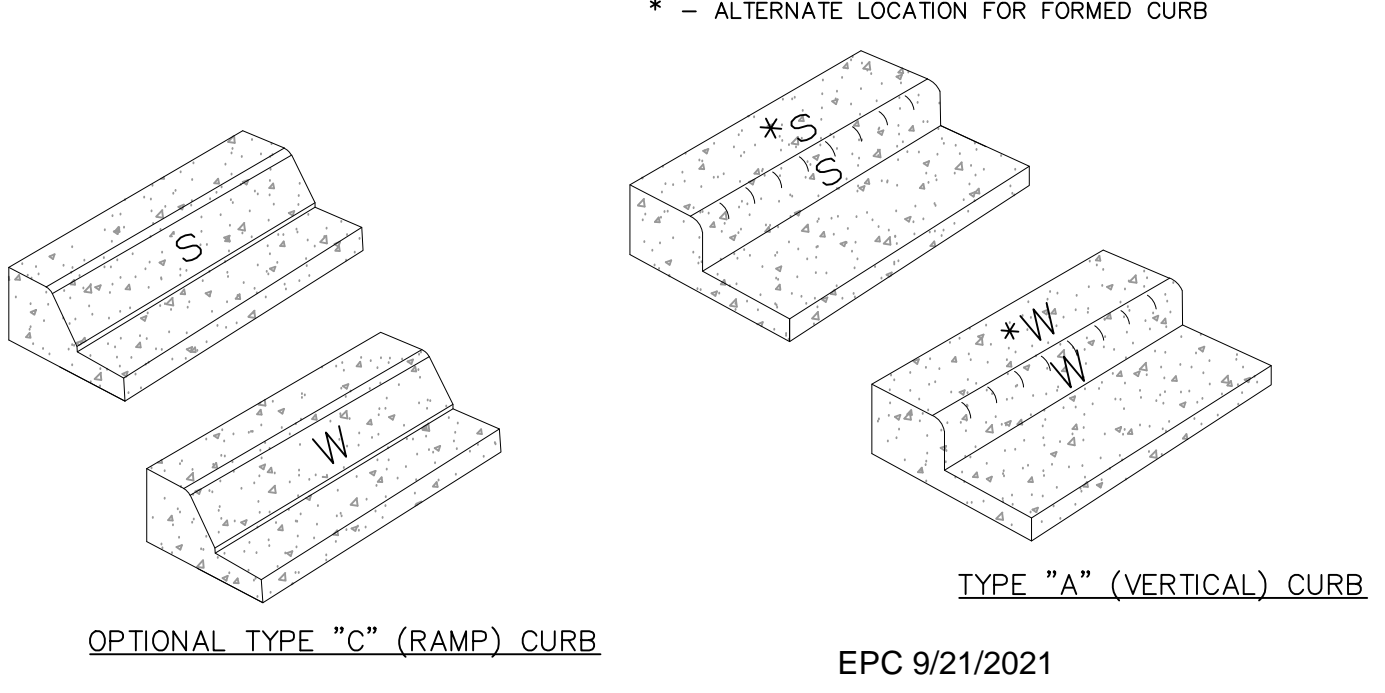
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N.T.S.
*SEE PLANS FOR NON-TYPICAL DIMENSIONS

CURB MARKING LOCATION DETAIL
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EPC 9/21/2021

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PAINT BRUSH HILLS FILING NO. 14
UTILITY SERVICE PLANS

PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: N/A
DESIGNED BY: GW
DRAWN BY: SM
CHECKED BY: 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.

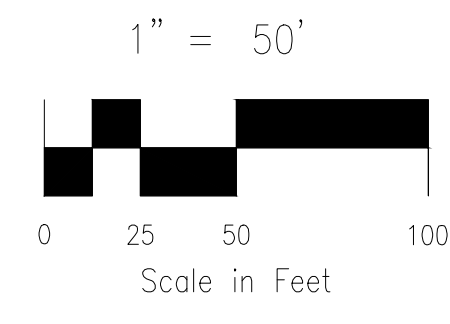
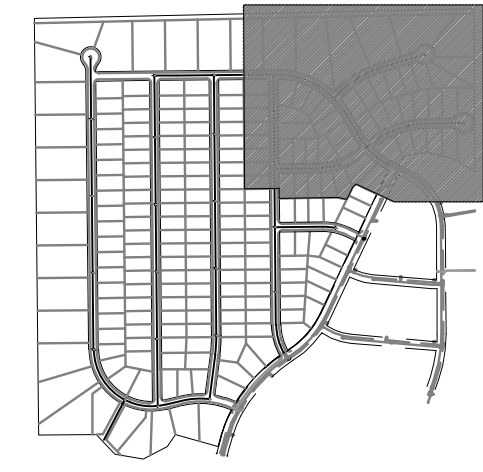
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER
NO. 37160
4-20-21

REVISIONS:
NO. DATE: BY: DESCRIPTION:

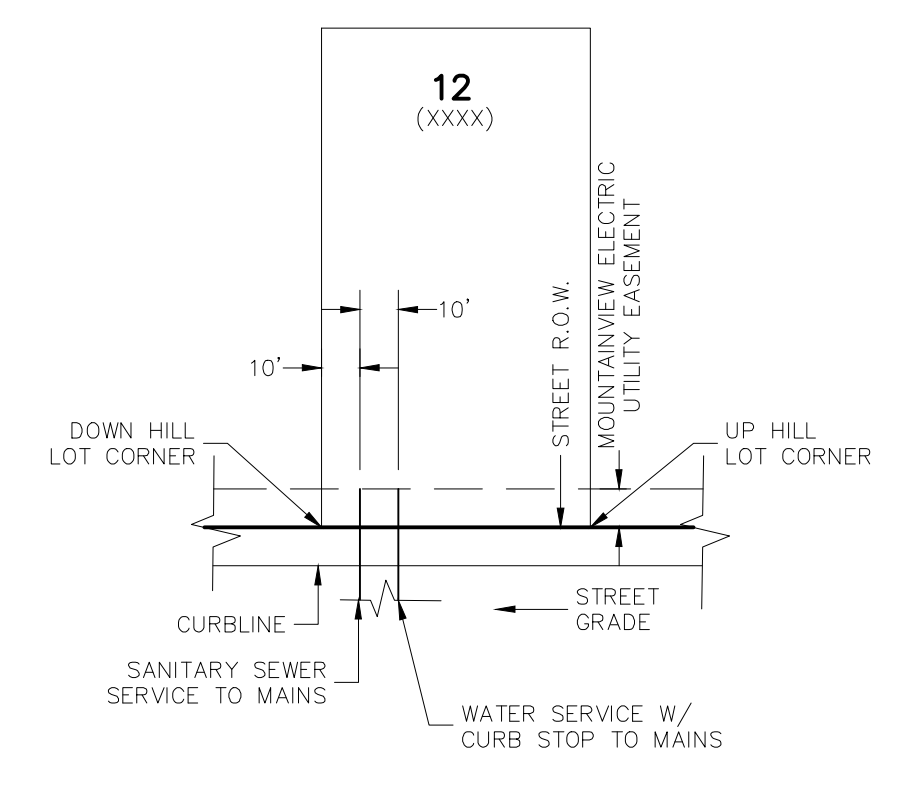
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CAUTION



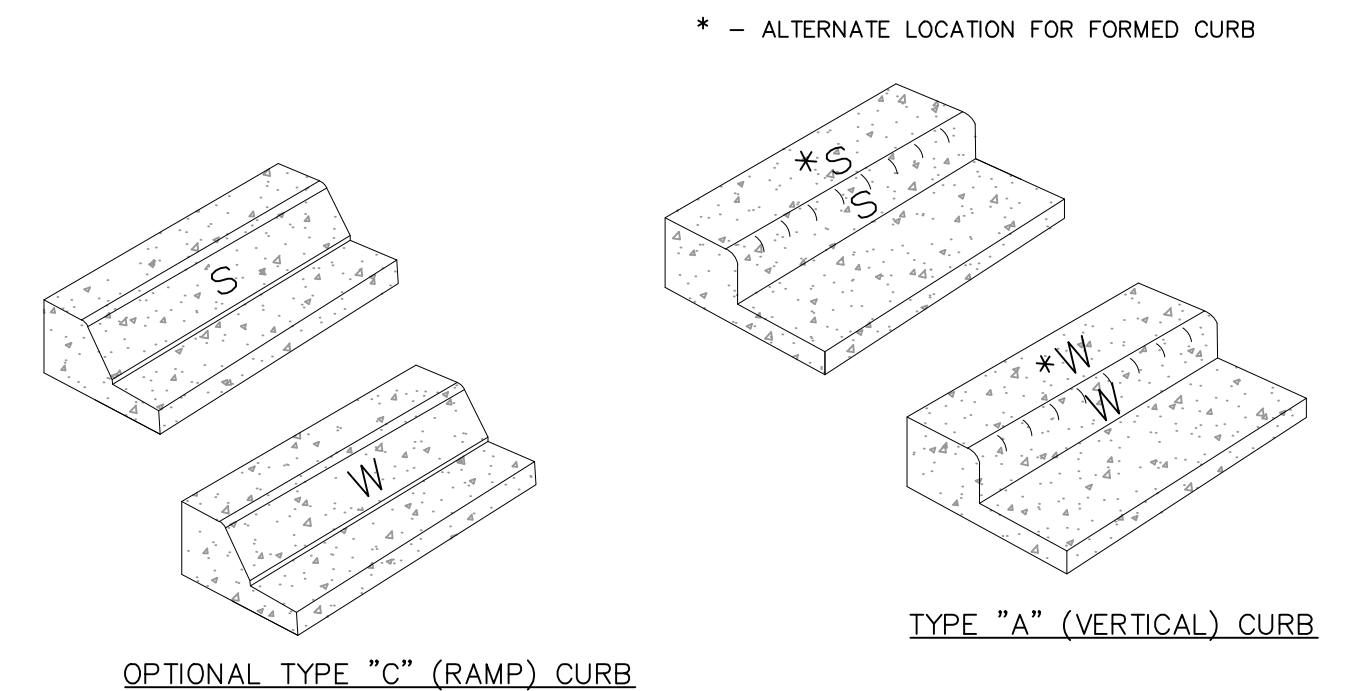
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PAINT BRUSH HILLS FILING NO. 14
UTILITY SERVICE PLANS

PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: N/A
DESIGNED BY: GW
DRAWN BY: SM
CHECKED BY: GW

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

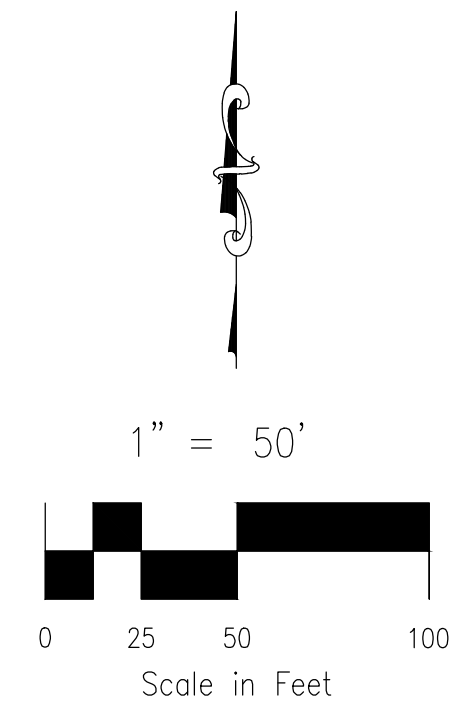
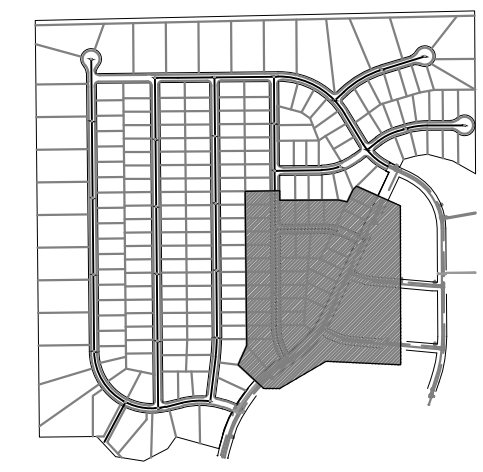
CIVIL CONSULTANTS, INC.

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

PROFESSIONAL ENGINEER
NO. 37150
4-20-21

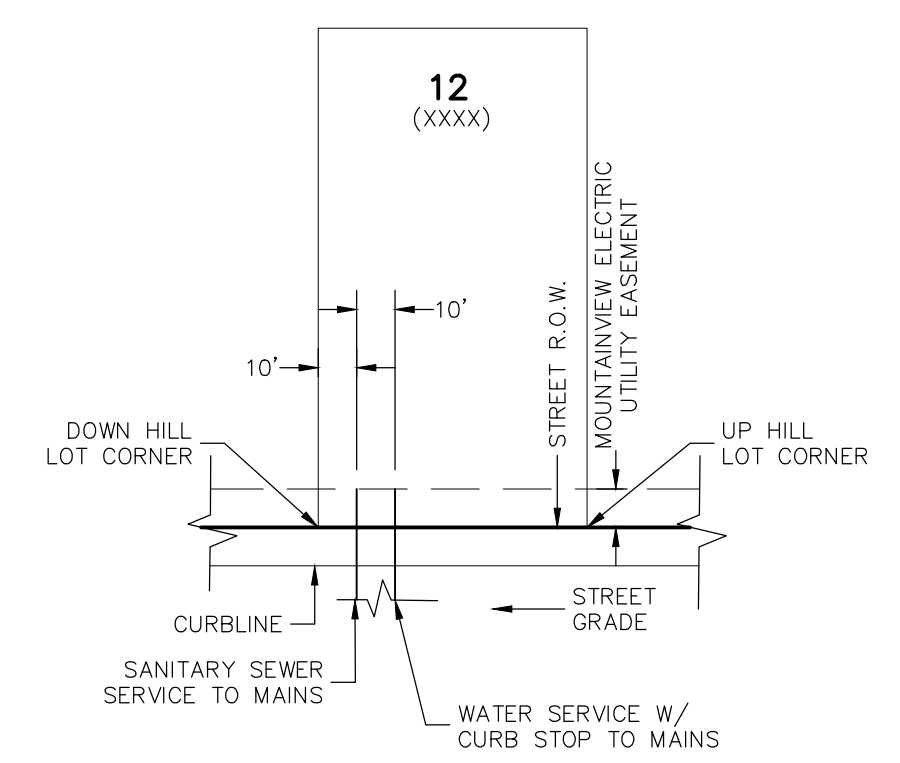
REVISIONS:
NO. DATE: BY: DESCRIPTION:

CAUTION



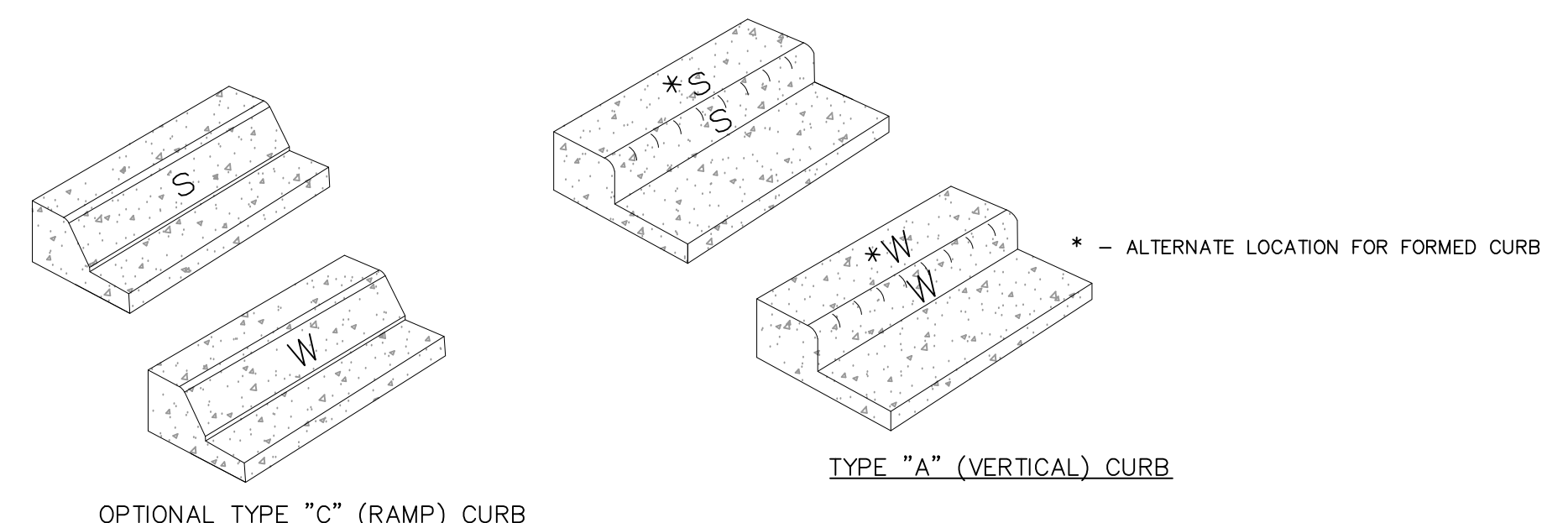
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10. ALL FIRE HYDRANTS TO BE 6.5' BURY DEPTH UNLESS OTHERWISE NOTED.
11. ALL SEWER SERVICES TO BE INSTALLED AT MINIMUM PERMISSIBLE GRADE UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
12. HOMEOWNER'S SHALL DETERMINE THE SEWER SERVICE ELEVATION PRIOR TO BASEMENT EXCAVATION AND SETTING OF FINISHED FLOOR FOR HOUSE.
13. MODIFY WATER AND SEWER SERVICE TAP LOCATIONS TO AVOID DRIVEWAYS.
14. ALL BASEMENTS SHALL REQUIRE A PERIMETER UNDERDRAIN SYSTEM WITH AUTOMATIC SUMP PUMP DISCHARGE. SIZING OF SUMP PUMP SHALL BE DETERMINED BY THE CONTRACTOR/BUILDER. ALL GROUNDWATER DISCHARGE SHALL BE REQUIRED TO BE DISCHARGED TO EACH INDIVIDUAL LOT.
15. UTILITY SERVICE LOCATIONS ARE REQUIRED AND SHALL BE IDENTIFIED WITH LOCATION STAMPED IN CONCRETE CURB. SEE CURB MARKING LOCATION DETAILS THIS SHEET.



CURB MARKING LOCATION DETAIL
N.T.S.

- NOTES:**
1. SEWER SERVICE LOCATION TO BE STAMPED IN CURB FACE, MARKED "S"
 2. WATER SERVICE LOCATION TO BE STAMPED IN CURB FACE, MARKED "W"
 3. LETTER HEIGHT TO BE 4 INCHES
 4. STAMP TO BE PLACED BY CONCRETE CONTRACTOR



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PAINT BRUSH HILLS FILING NO. 14

UTILITY SERVICE PLANS

PROJECT NO. 10-014
DATE: 04/09/2021
SCALE: N/A
DESIGNED BY: GW
DRAWN BY: SM
CHECKED BY: GW

212 N. WABATCH AVE., STE 305
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

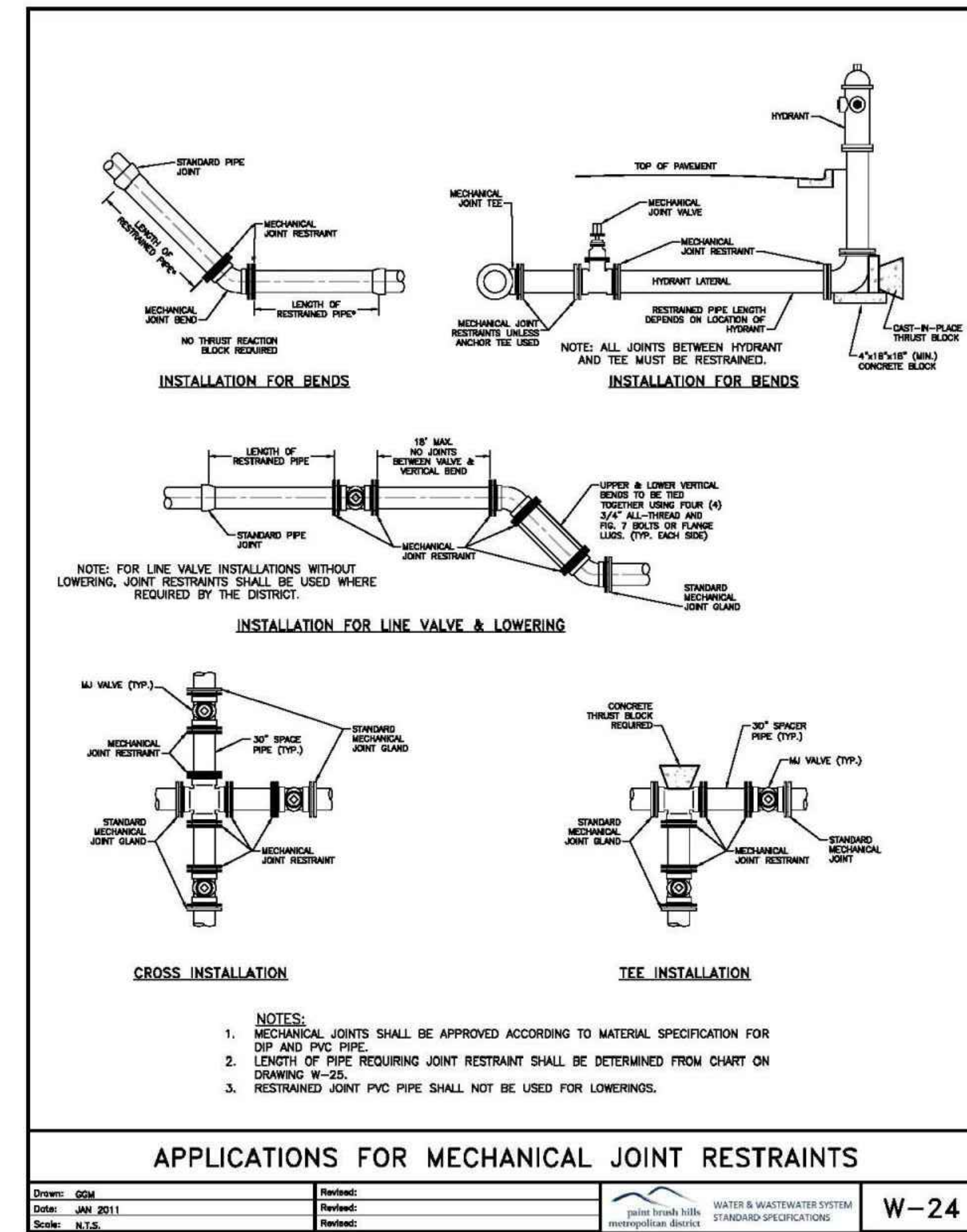
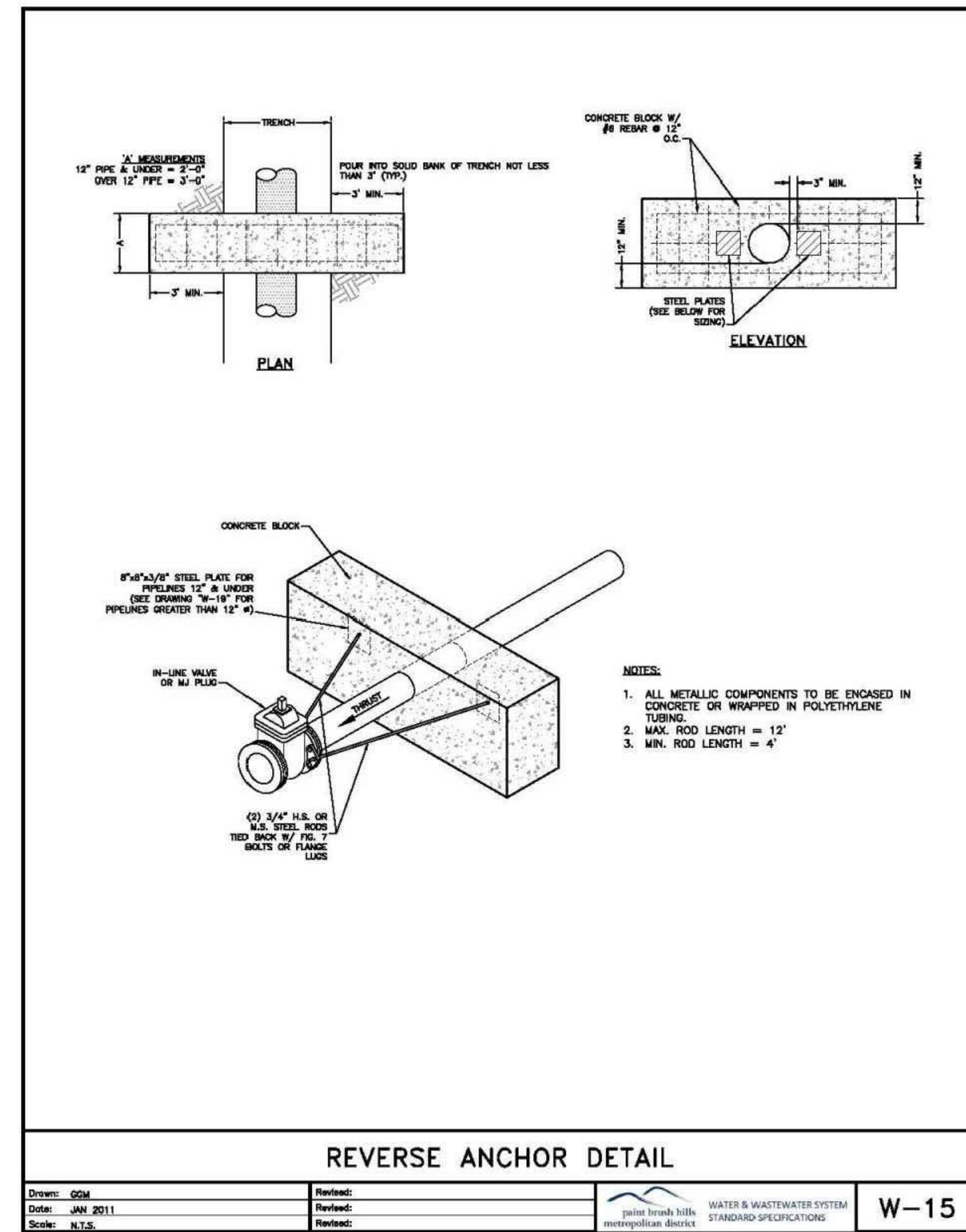
PROFESSIONAL ENGINEER
4-20-21
37160

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

EPC 9/21/2021



RESTRAINED M.J. PIPE LENGTH (FT)

TYPE OF FITTING	6-INCH DUCTILE IRON AND PVC			16-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI) <100	100-150	150-200	STATIC PRESSURE (PSI) <100	100-150	150-200
90° BEND, TEE, VALVE OR PLUG	12	18	24	29	43	58
45° BEND	5	8	10	12	18	24
22-1/2° BEND	2	4	5	6	9	12
11-1/4° BEND	1	2	2	3	4	6

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

TYPE OF FITTING	12-INCH DUCTILE IRON AND PVC			20-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI) <100	100-150	150-200	STATIC PRESSURE (PSI) <100	100-150	150-200
90° BEND, TEE, VALVE OR PLUG	23	34	45	35	52	70
45° BEND	9	14	19	15	22	29
22-1/2° BEND	5	7	9	7	10	14
11-1/4° BEND	2	3	4	3	5	7

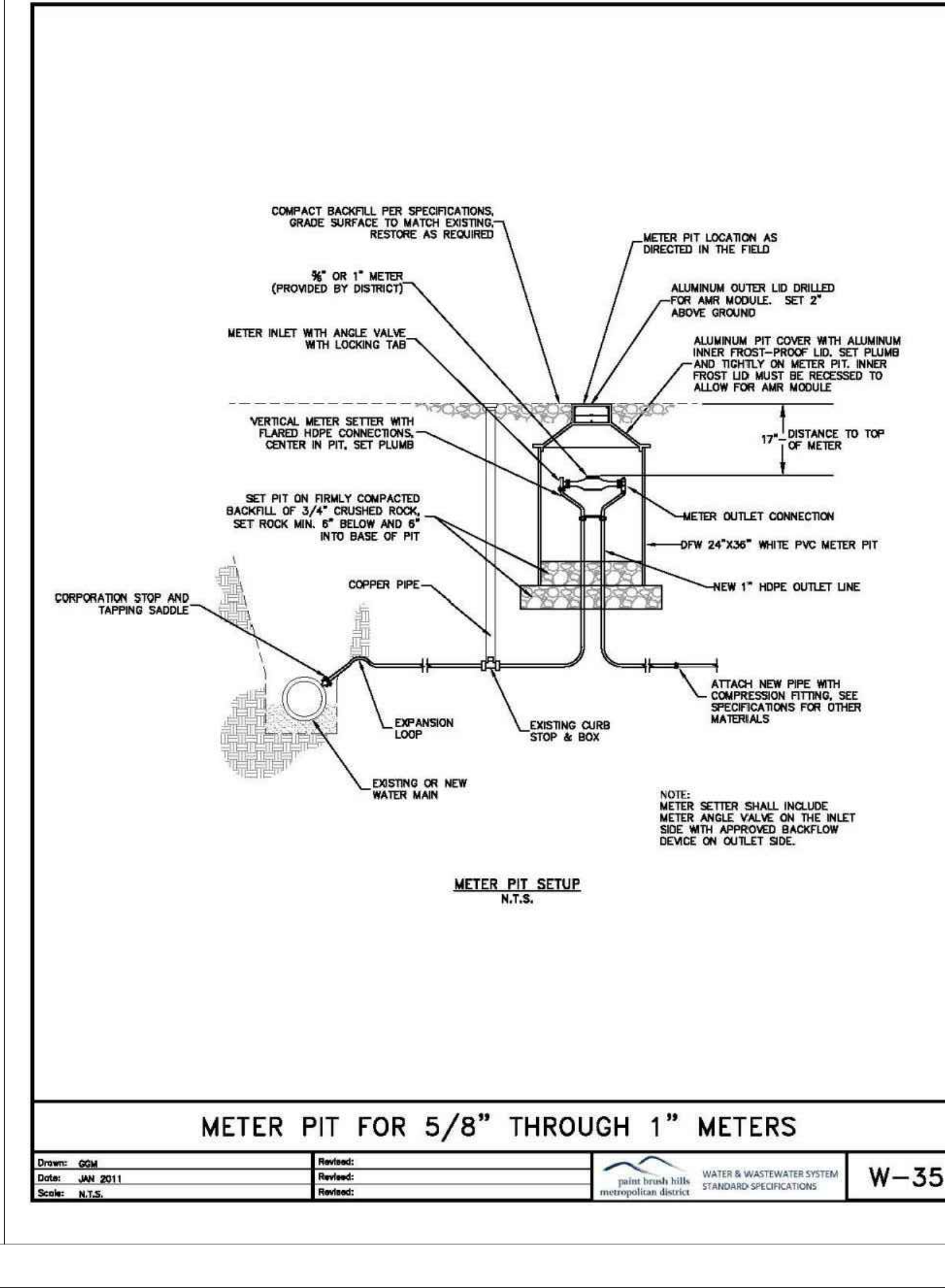
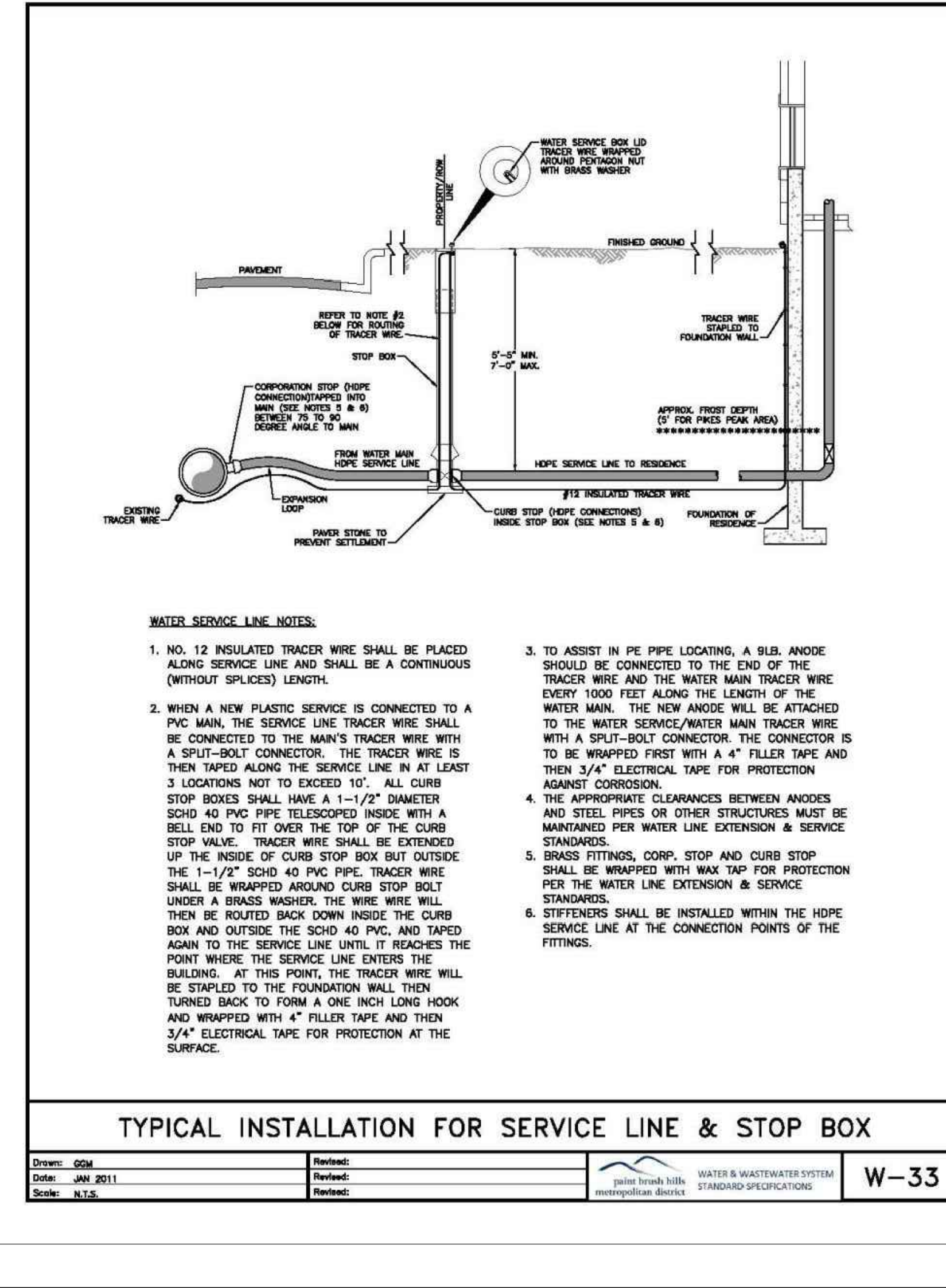
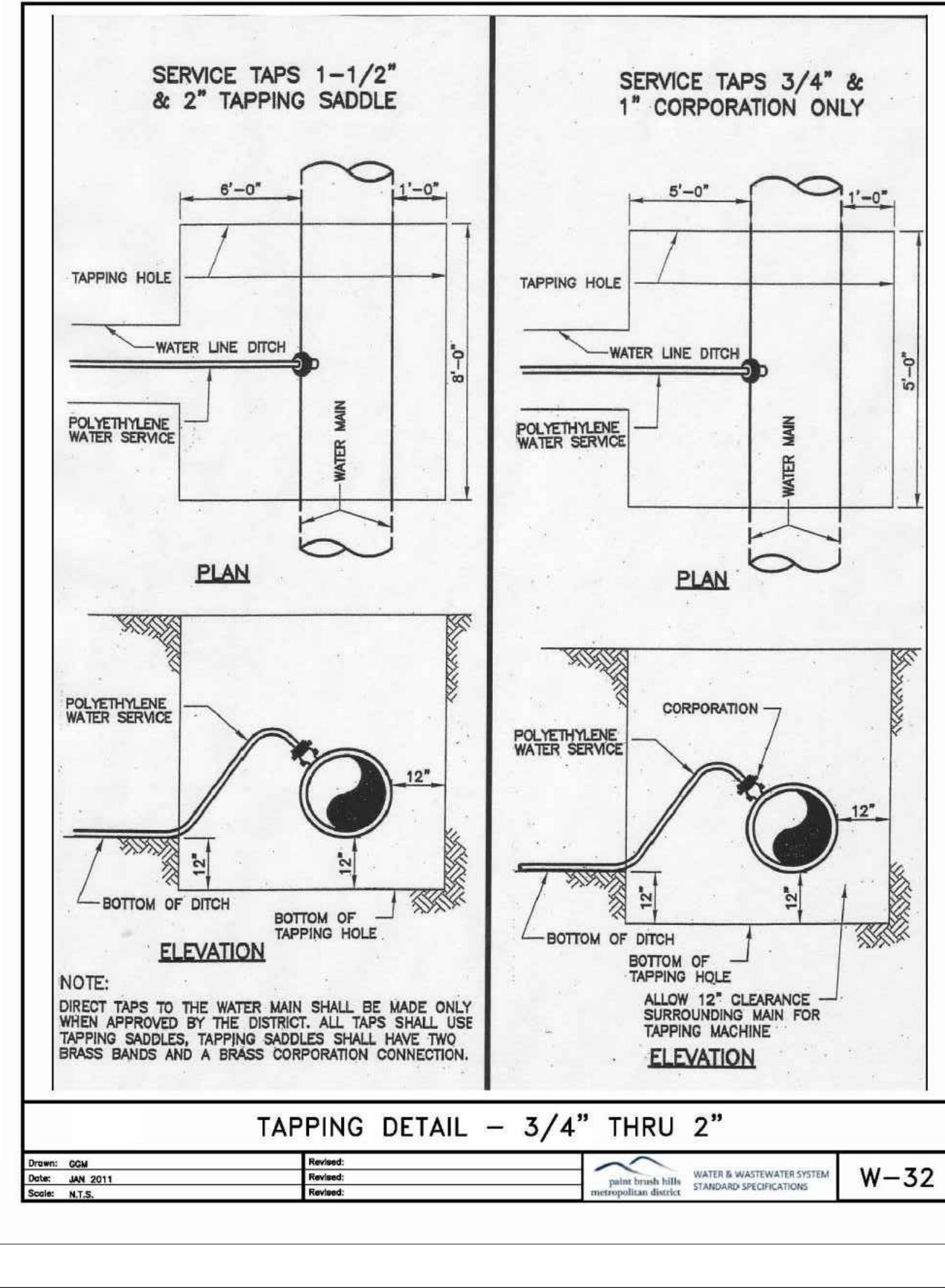
TYPE OF FITTING	24-INCH DUCTILE IRON AND PVC		
	STATIC PRESSURE (PSI) <100	100-150	150-200
90° BEND, TEE, VALVE OR PLUG	41	61	81
45° BEND	17	25	34
22-1/2° BEND	8	12	16
11-1/4° BEND	4	6	8

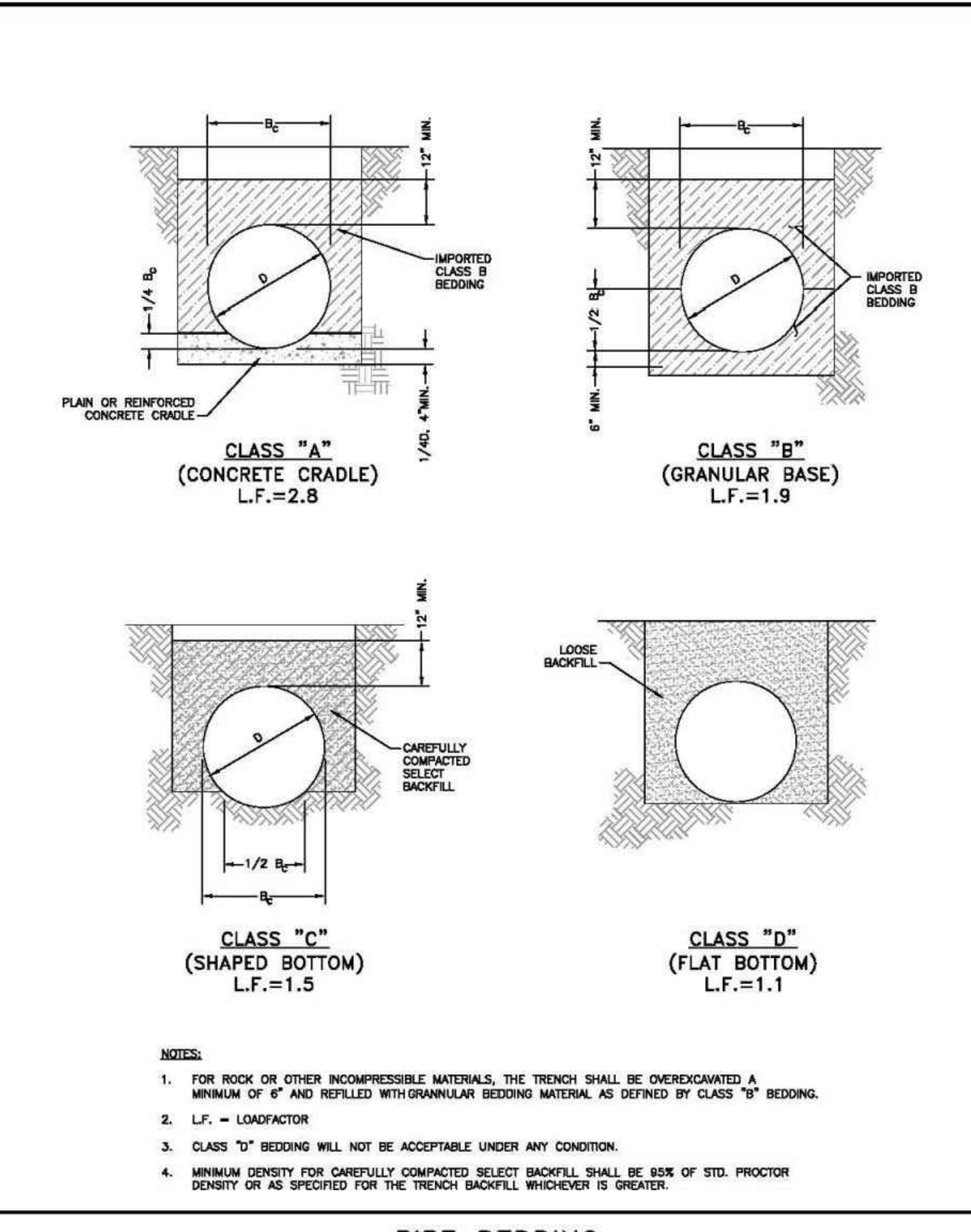
RESTRAINED MJ PIPE LENGTH DATA

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

Revised: _____
 Date: _____
 Scale: _____

WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS
 W-25





CLASS "A" (CONCRETE CRADLE)
L.F.=2.8

CLASS "B" (GRANULAR BASE)
L.F.=1.9

CLASS "C" (SHAPED BOTTOM)
L.F.=1.5

CLASS "D" (FLAT BOTTOM)
L.F.=1.1

NOTES:

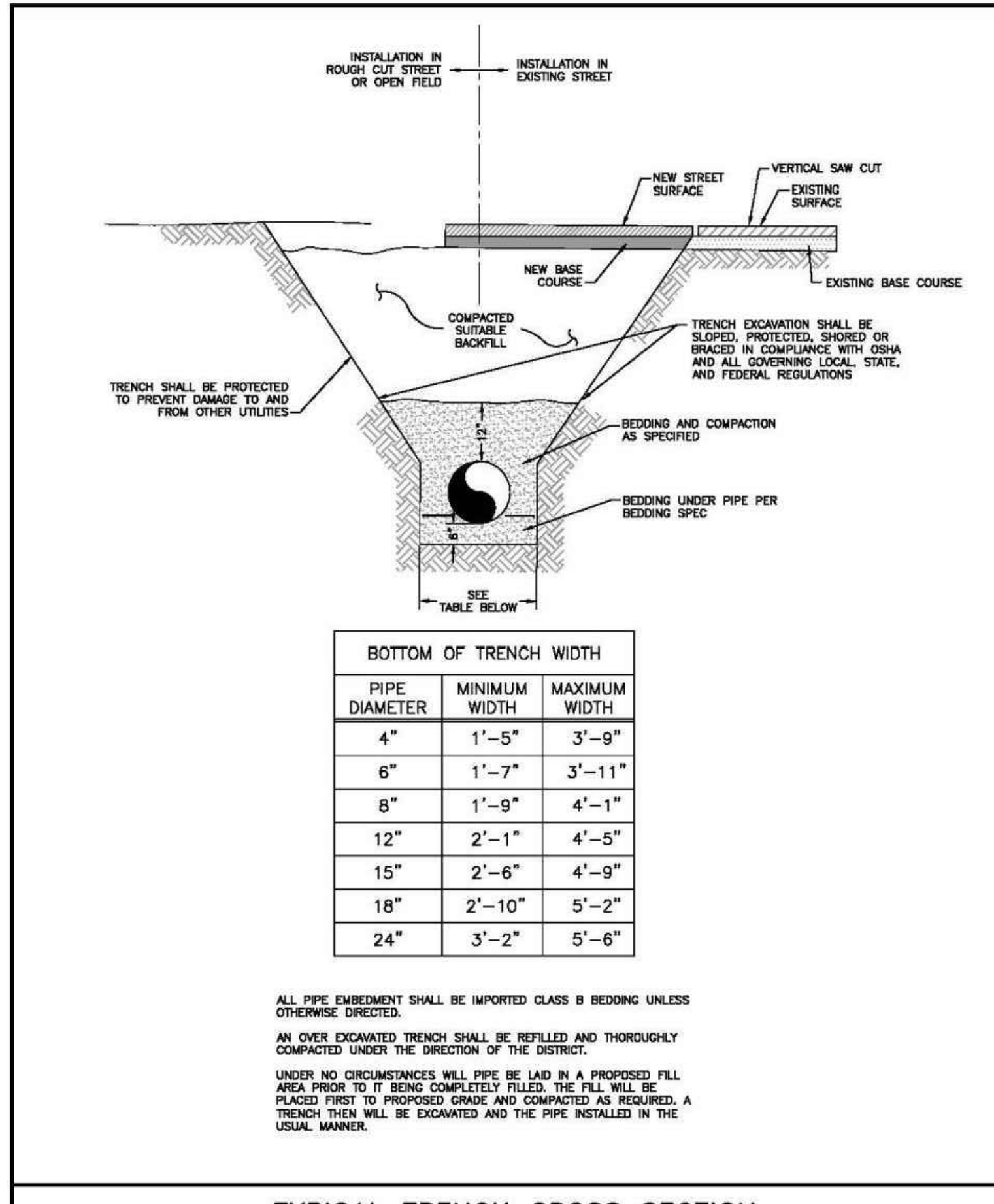
- FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVERDUGGED A MINIMUM OF 6" AND REFILLED WITH GRANULAR BEDDING MATERIAL AS DEFINED BY CLASS "B" BEDDING.
- L.F. = LOAD FACTOR
- CLASS "D" BEDDING WILL NOT BE ACCEPTABLE UNDER ANY CONDITION.
- MINIMUM DENSITY FOR CAREFULLY COMPACTED SELECT BACKFILL SHALL BE 95% OF STD. PROCTOR DENSITY OR AS SPECIFIED FOR THE TRENCH BACKFILL WHICHEVER IS GREATER.

PIPE BEDDING

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
 metropolitan district
WW-1



TYPICAL TRENCH CROSS SECTION

BOTTOM OF TRENCH WIDTH		
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-5"	3'-9"
6"	1'-7"	3'-11"
8"	1'-9"	4'-1"
12"	2'-1"	4'-5"
15"	2'-6"	4'-9"
18"	2'-10"	5'-2"
24"	3'-2"	5'-6"

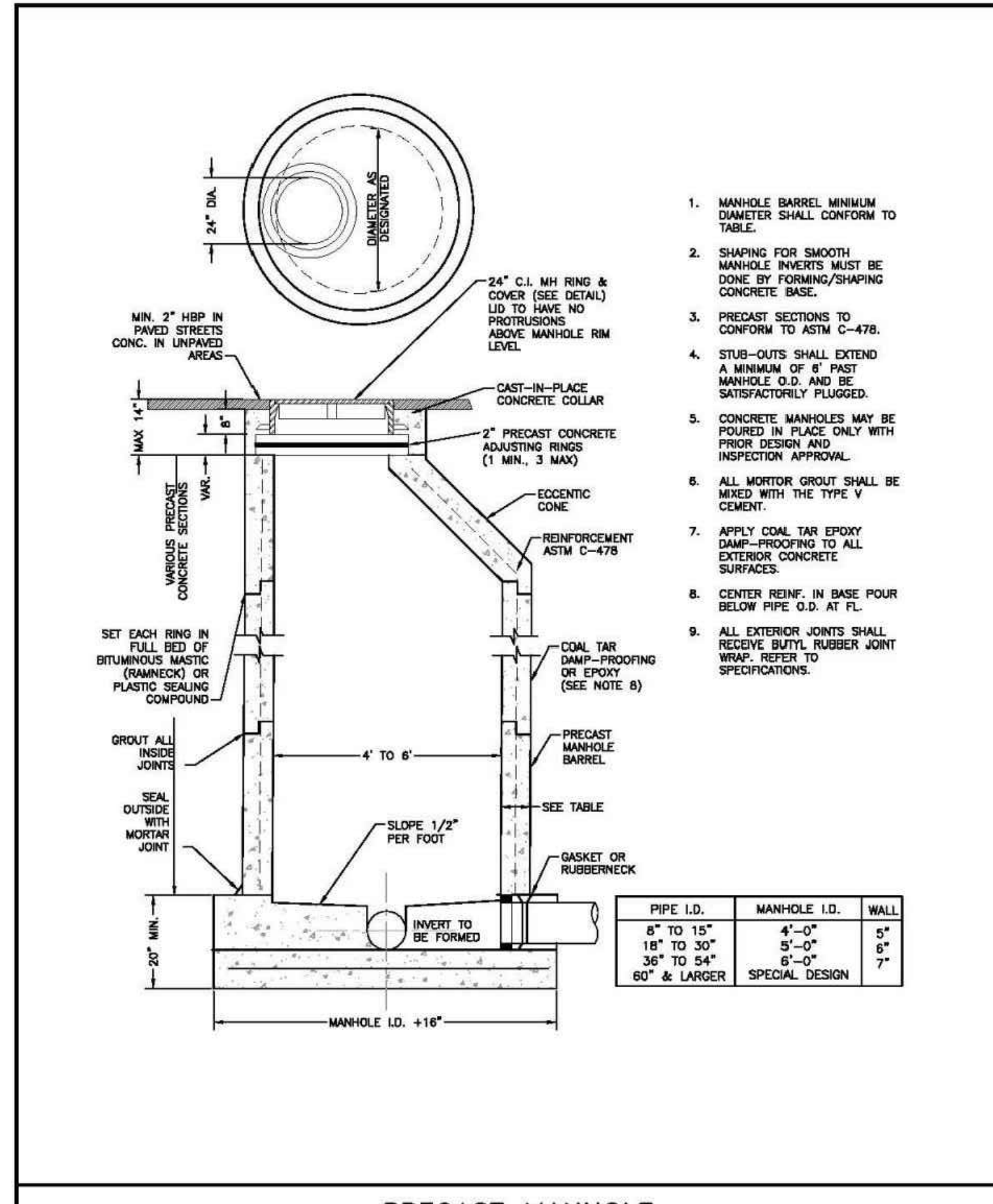
NOTES:

- ALL PIPE EMBEDMENT SHALL BE IMPORTED CLASS B BEDDING UNLESS OTHERWISE DIRECTED.
- AN OVER EXCAVATED TRENCH SHALL BE REFILLED AND THOROUGHLY COMPACTED UNDER THE DIRECTION OF THE DISTRICT.
- UNDER NO CIRCUMSTANCES WILL PIPE BE LAD IN A PROPOSED FILL AREA PRIOR TO IT BEING COMPLETELY FILLED. THE FILL WILL BE PLACED FIRST TO PROPOSED GRADE AND COMPACTED AS REQUIRED. A TRENCH THEN WILL BE EXCAVATED AND THE PIPE INSTALLED IN THE USUAL MANNER.

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
 metropolitan district
WW-2



PRECAST MANHOLE

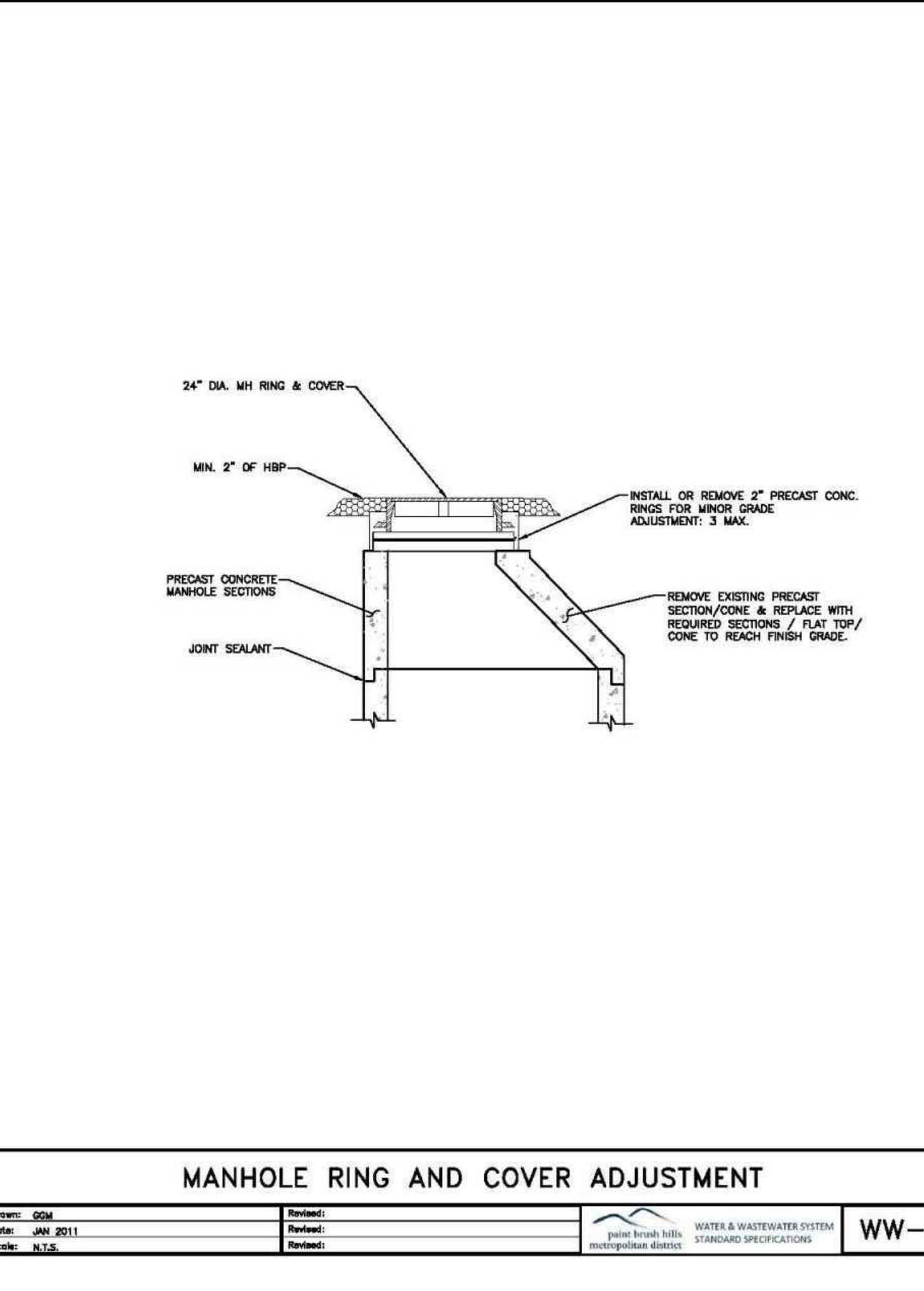
- MANHOLE BARREL MINIMUM DIAMETER SHALL CONFORM TO TABLE.
- SHARPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING/SHAPING CONCRETE BASE.
- PRECAST SECTIONS TO CONFORM TO ASTM C-478.
- STUB-OUTS SHALL EXTEND A MINIMUM OF 8" PAST MANHOLE O.D. AND BE SATISFACTORILY PLUGGED.
- CONCRETE MANHOLES MAY BE POURED IN PLACE ONLY WITH PRIOR DESIGN AND INSPECTION APPROVAL.
- ALL MORTAR GROUT SHALL BE MIXED WITH THE TYPE V CEMENT.
- APPLY COAL TAR EPOXY DAMP-PROOFING TO ALL EXTERIOR CONCRETE SURFACES.
- CENTER REINF. IN BASE POUR BELOW PIPE O.D. AT FL.
- ALL EXTERIOR JOINTS SHALL RECEIVE BUTYL RUBBER JOINT WRAP. REFER TO SPECIFICATIONS.

PIPE I.D.	MANHOLE I.D.	WALL
8" to 15"	4'-0"	8"
18" to 30"	5'-0"	8"
36" to 54"	6'-0"	8"
60" & LARGER	SPECIAL DESIGN	7"

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
 metropolitan district
WW-3

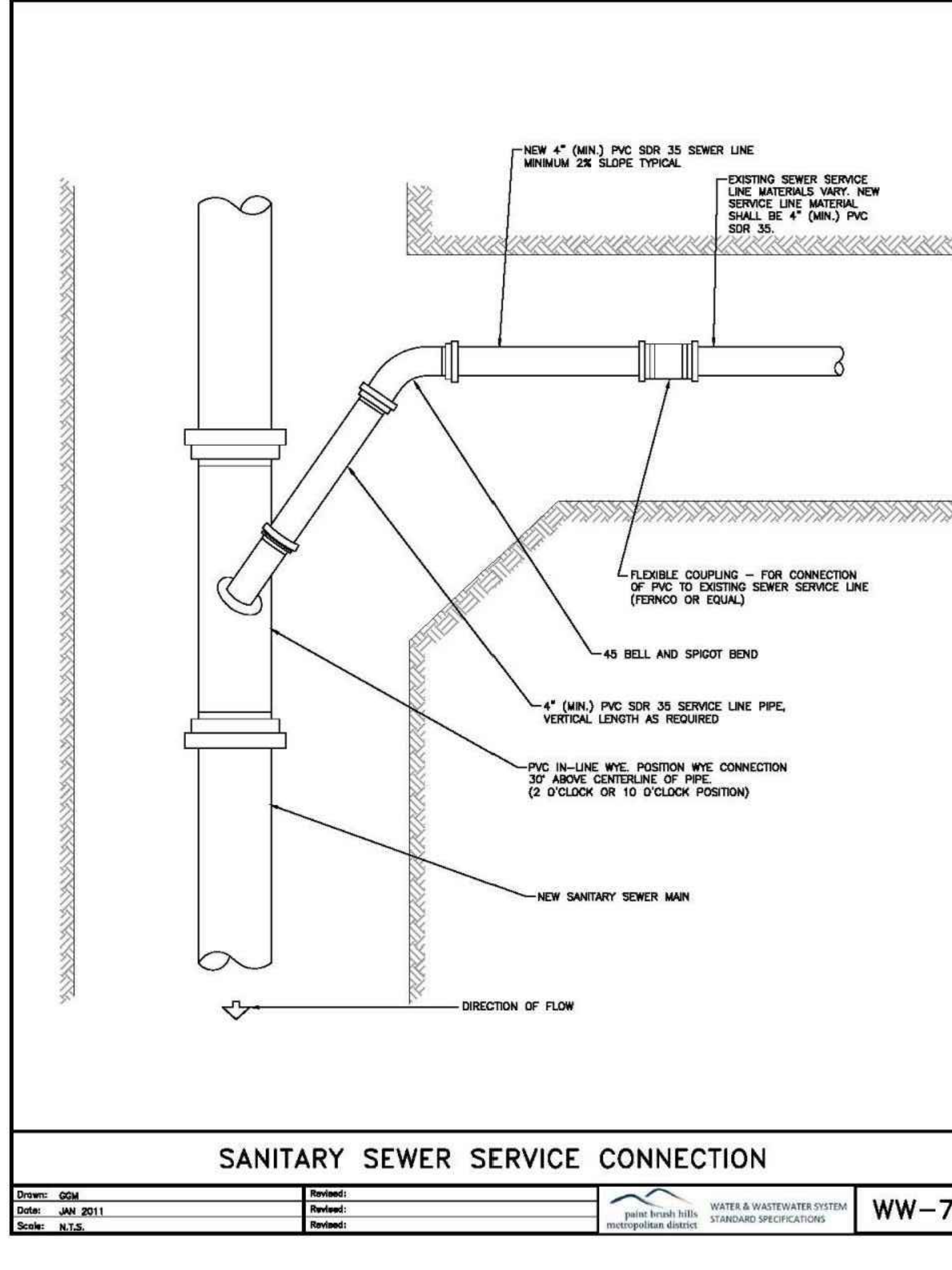


MANHOLE RING AND COVER ADJUSTMENT

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
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WW-5

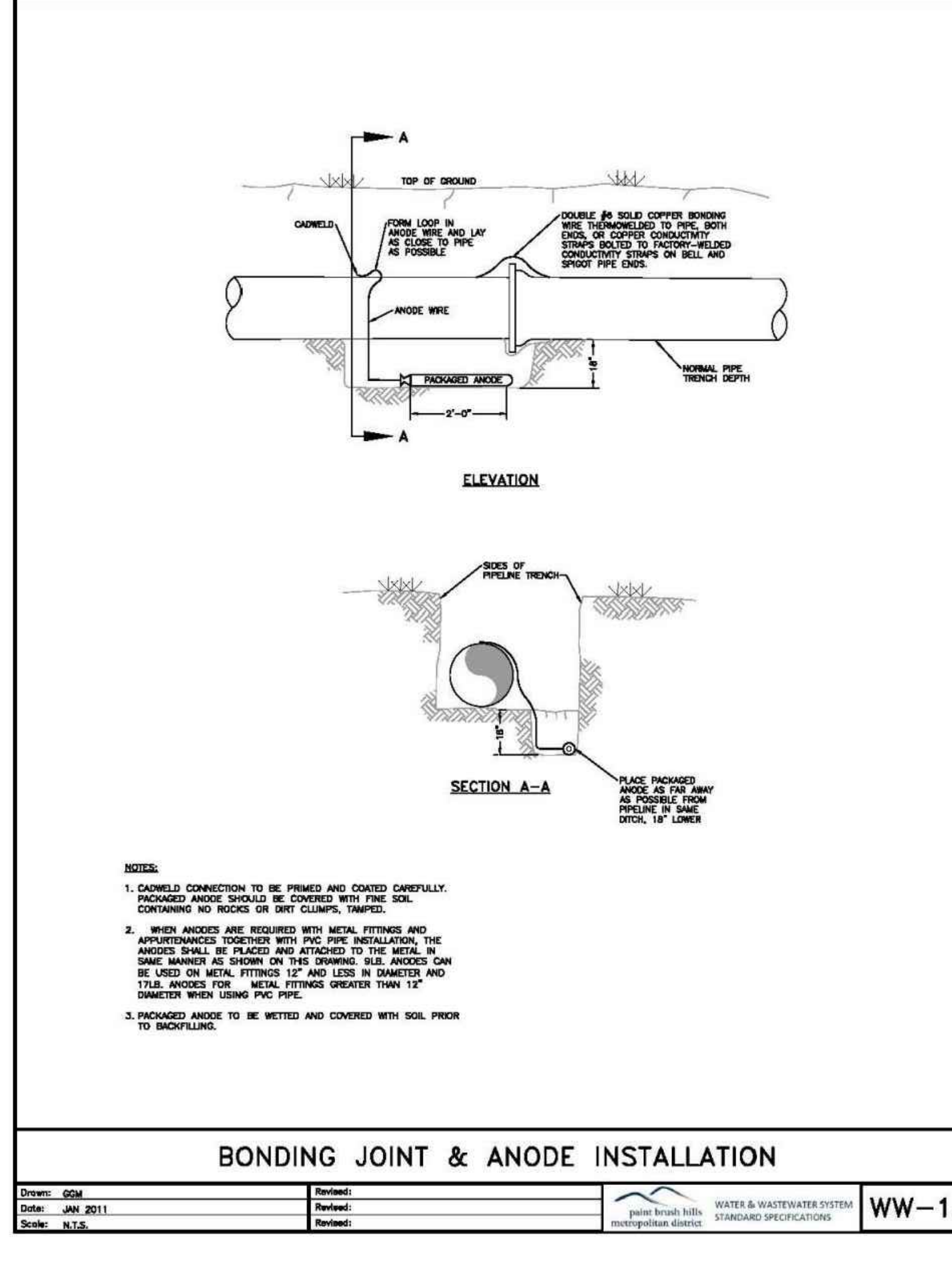


SANITARY SEWER SERVICE CONNECTION

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
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WW-7



BONDING JOINT & ANODE INSTALLATION

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

Reviewed:
 Date:
 Scale:

WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
 metropolitan district
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"	4.00'	5'00"00"	4'00"00"	16"	201'
6"	6.80"	5.75'	5'00"00"	4'00"00"	16"	286'
8"	8.80"	7.34'	5'00"00"	4'00"00"	15"	286'
10"	11.10"	9.25'	5'00"00"	4'00"00"	15"	286'
12"	13.20"	11.00'	5'00"00"	4'00"00"	15"	286'
14"	15.30"	12.75'	3'00"00"	2'24"00"	10"	477'
18"	17.40"	14.50'	3'00"00"	2'24"00"	10"	477'
18"	19.50"	16.25'	3'00"00"	2'24"00"	10"	477'
20"	21.60"	18.00'	3'00"00"	2'24"00"	10"	477'
24"	25.80"	21.50'	3'00"00"	2'24"00"	10"	477'
30"	32.00"	26.66'	2'30"00"	2'00"00"	8"	573'
36"	38.30"	31.92'	2'00"00"	1'38"00"	6"	716'
42"	44.50"	37.08'	2'00"00"	1'38"00"	6"	716'

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

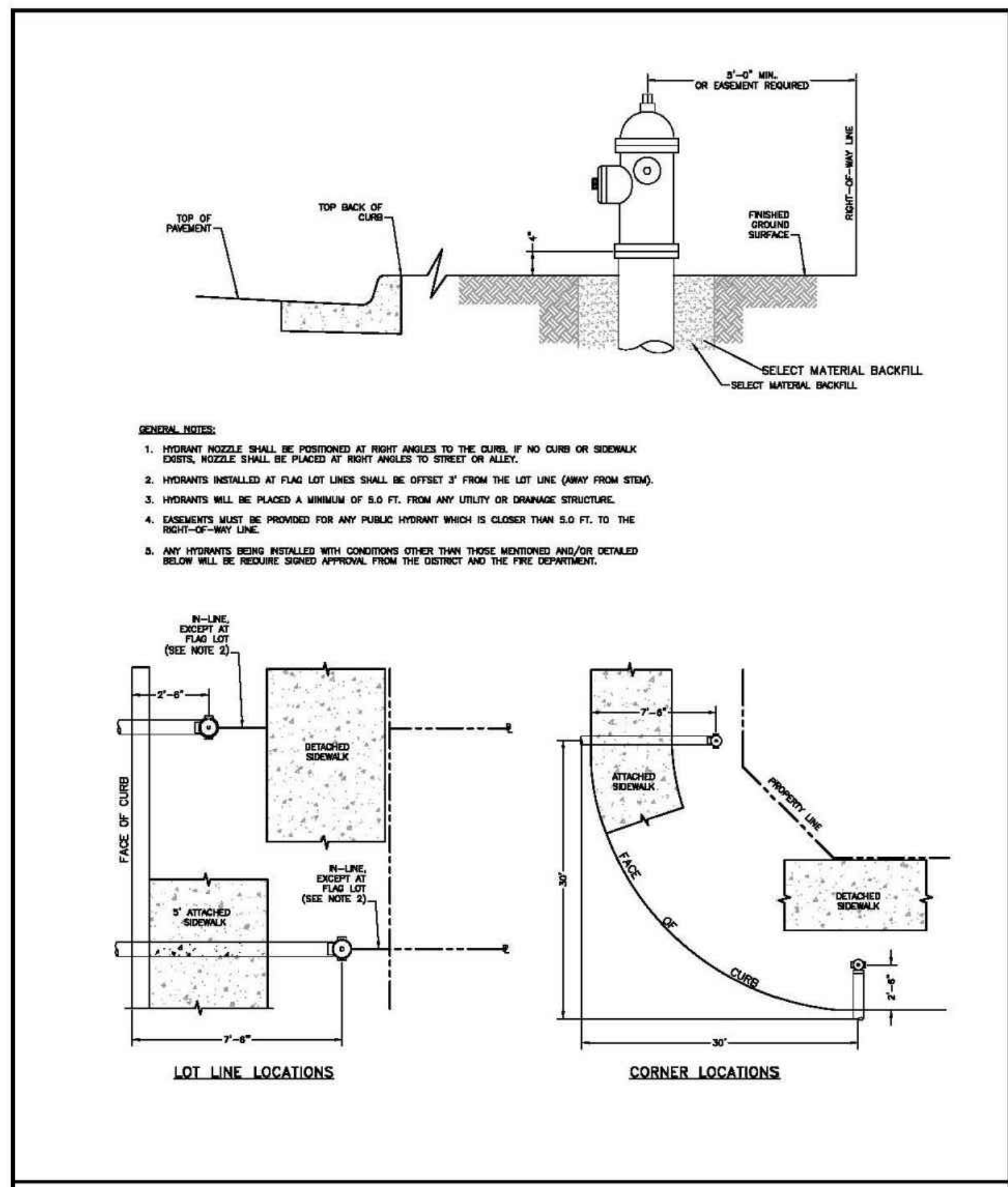
MAXIMUM PIPELINE DEFLECTION DATA

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

Reviewed:
 Date:
 Scale:

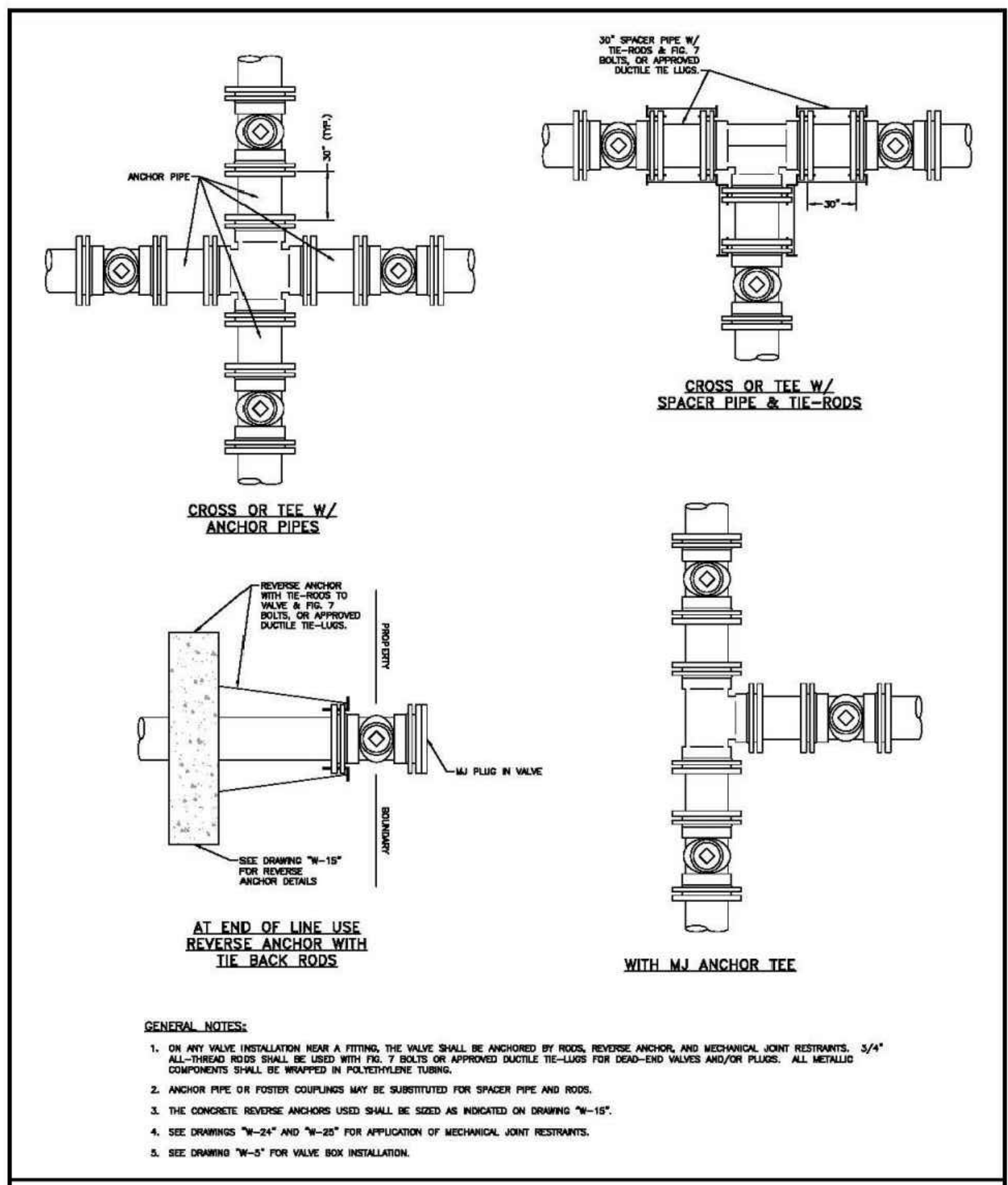
WATER & WASTEWATER SYSTEM
 STANDARD SPECIFICATIONS
 painte brush hills
 metropolitan district
WW-14

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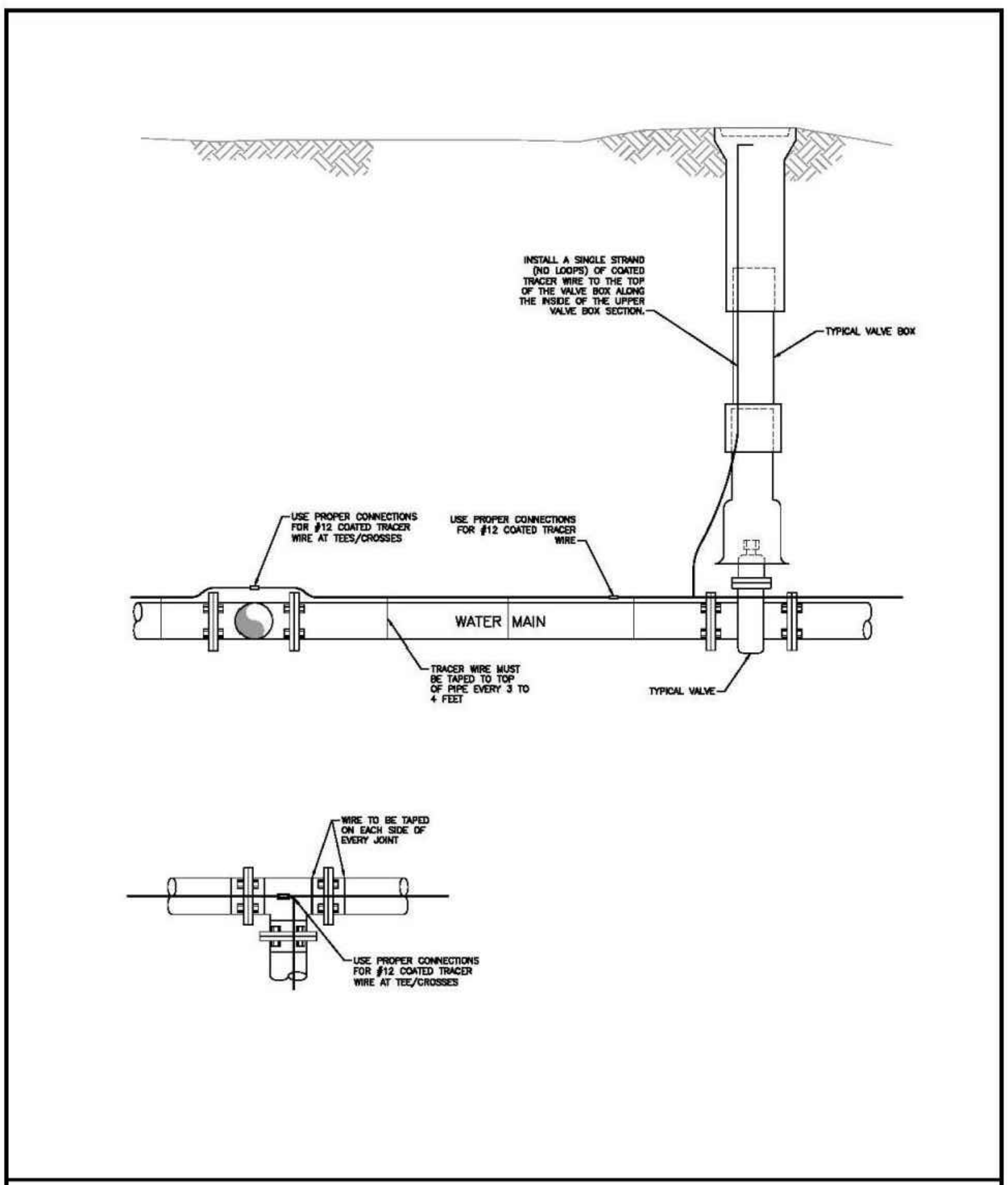
FIRE HYDRANT LOCATIONS

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-1
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		



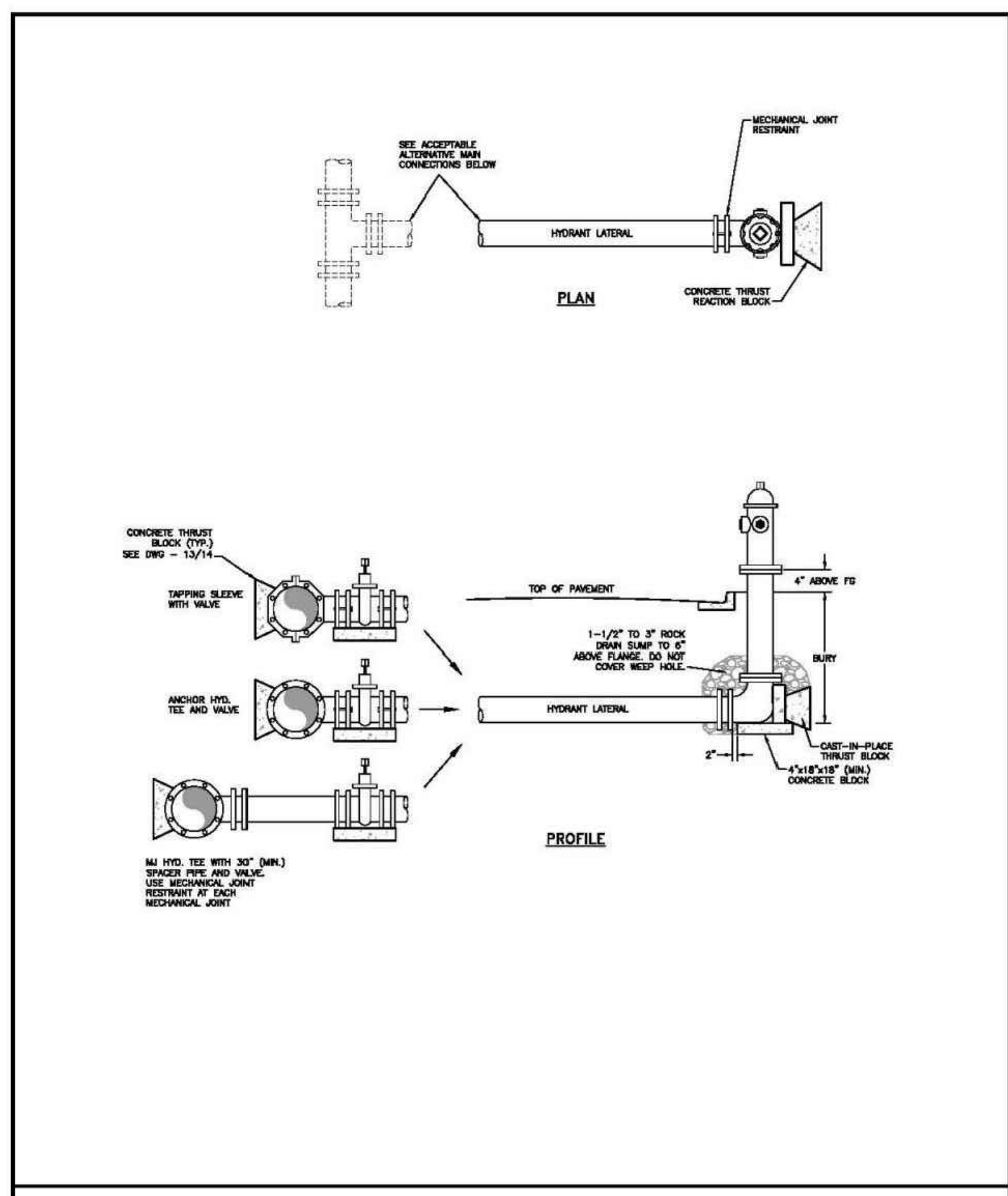
VALVE INSTALLATION & LOCATION

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-4
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		



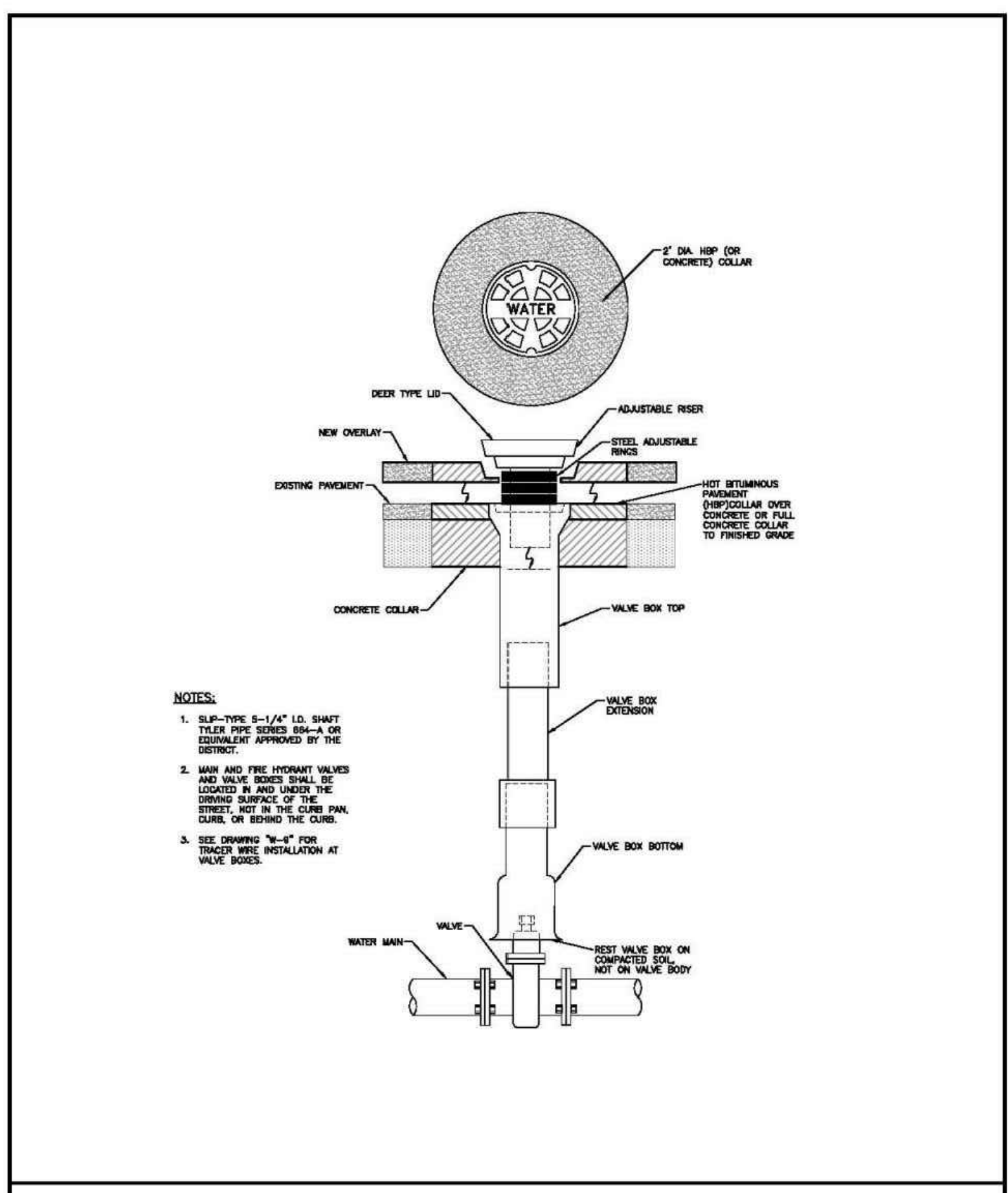
TRACER WIRE INSTALLATION DETAILS

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-9
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		



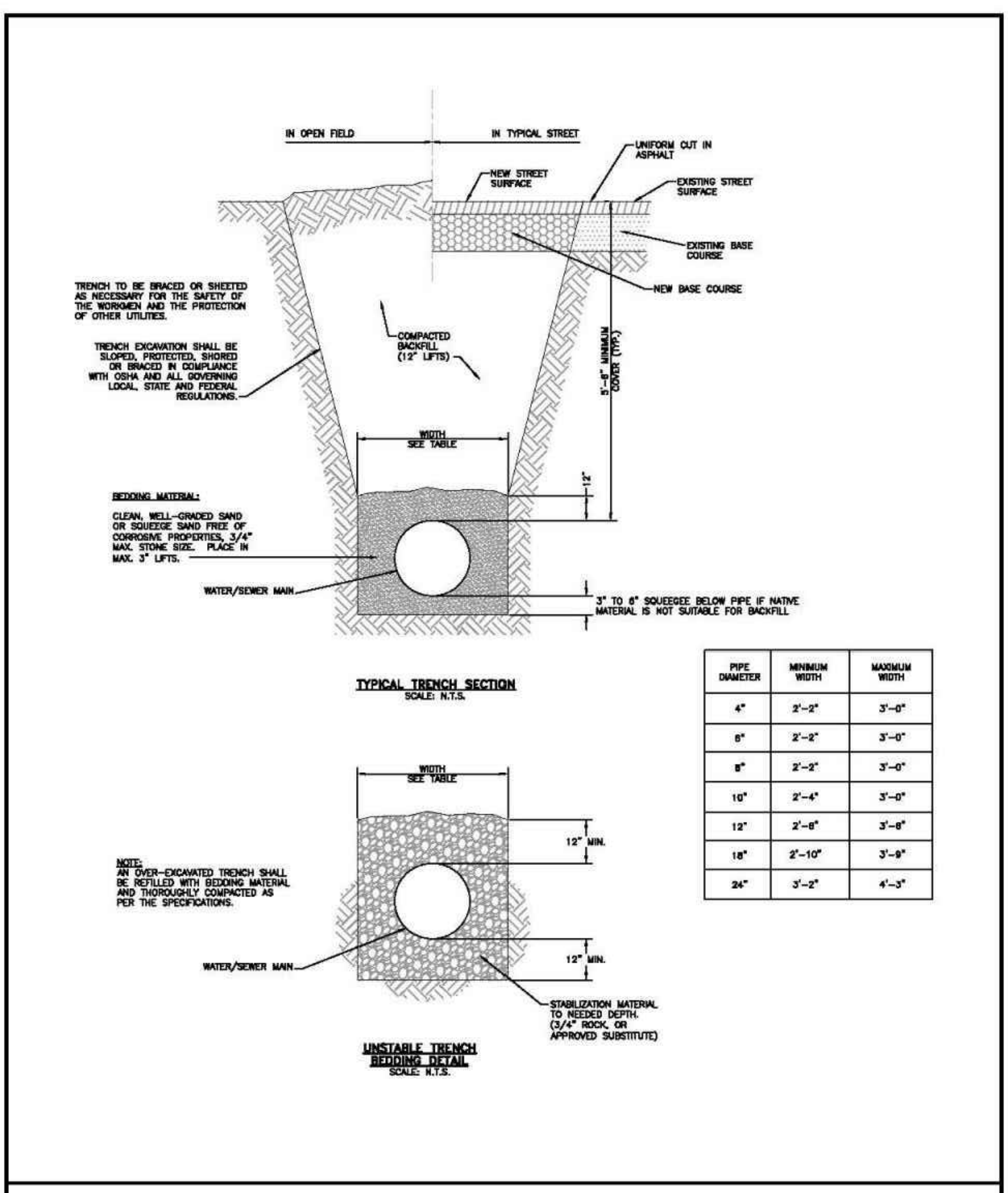
FIRE HYDRANT INSTALLATION

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-2
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		



VALVE BOX INSTALLATION

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-5
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		



TYPICAL TRENCH CROSS-SECTION

Drawn: GDM	Reviewed:	Water & Wastewater System Standard Specifications	W-12
Date: JAN 2011	Reviewed:	Paint Brush Hills Metropolitan District	
Scale: N.T.S.	Reviewed:		

212 N. WAHATCH AVE., STE 305
 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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EPC 9/21/2021

CAUTION