

# COPPER CHASE AT STERLING RANCH

## COUNTY OF EL PASO, STATE OF COLORADO

# CONSTRUCTION PLANS

AUGUST 2023

### AGENCIES:

**OWNER/DEVELOPER:** CHALLENGER COMMUNITIES, LLC  
8605 EXPLORER DRIVE, SUITE 250  
COLORADO SPRINGS, CO 80920  
JIM BYERS (719) 598-5192

**CIVIL ENGINEER:** M&S CIVIL CONSULTANTS, INC.  
212 N. WAHSATCH, SUITE 305  
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  
GILBERT LAFORCE, P.E. (719) 520-6300

**TRAFFIC ENGINEERING:** EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS  
3275 AKERS DRIVE  
COLORADO SPRINGS, CO 80922  
JENNIFER IRVINE, P.E. (719) 520-6460

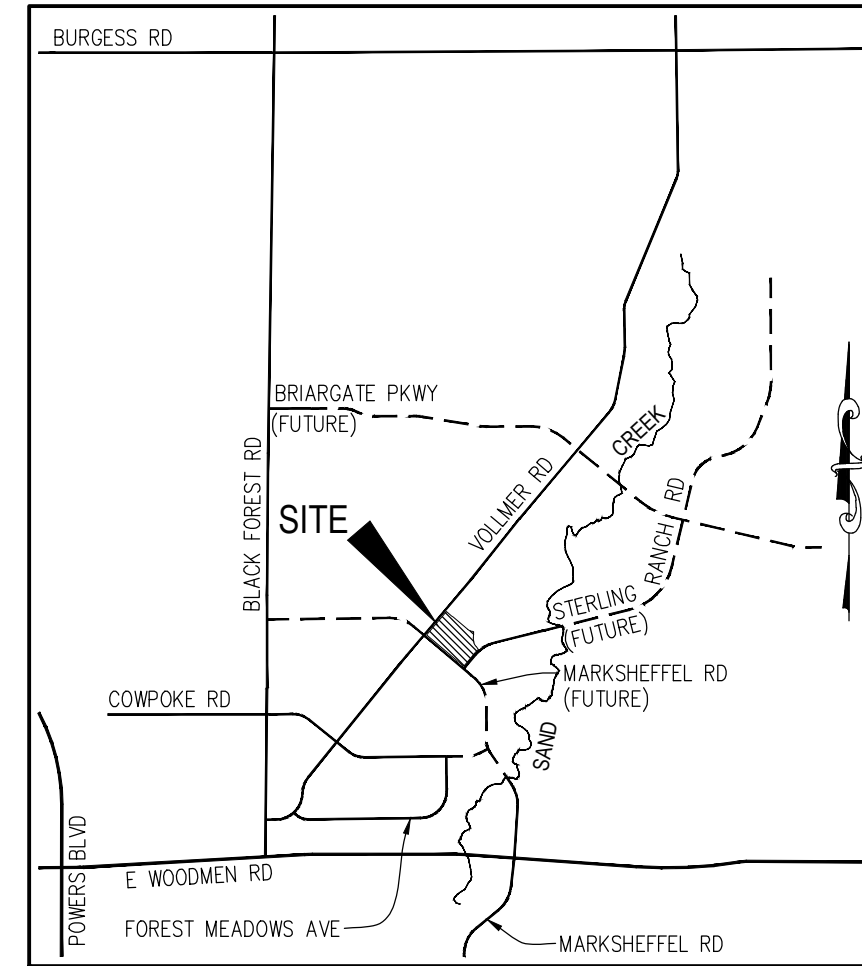
**WATER RESOURCES:** STERLING RANCH METRO DISTRICT ENGINEERS  
JDS-HYDRO CONSULTANTS  
545 E. PIKES PEAK AVE., SUITE 300  
COLORADO SPRINGS, CO 80903  
JOHN MCGINN (719) 668-8769

**FIRE DISTRICT:** BLACK FOREST FIRE PROTECTION DISTRICT  
11445 TEACHOUT ROAD  
COLORADO SPRINGS, CO 80908  
CHIEF BRYAN JACK (719) 495-4300

**GAS DEPARTMENT:** COLORADO SPRINGS UTILITIES  
7710 DURANT DR.  
COLORADO SPRINGS, CO 80947  
TIM WENDT (719) 668-3556

**ELECTRIC DEPARTMENT:** MOUNTAIN VIEW ELECTRIC  
11140 E. WOODMEN ROAD  
FALCON, CO 80831 (719) 495-2283

**COMMUNICATIONS:** QWEST COMMUNICATIONS  
(U.N.C.C. LOCATORS) (800) 922-1987  
AT&T (LOCATORS) (719) 635-3674



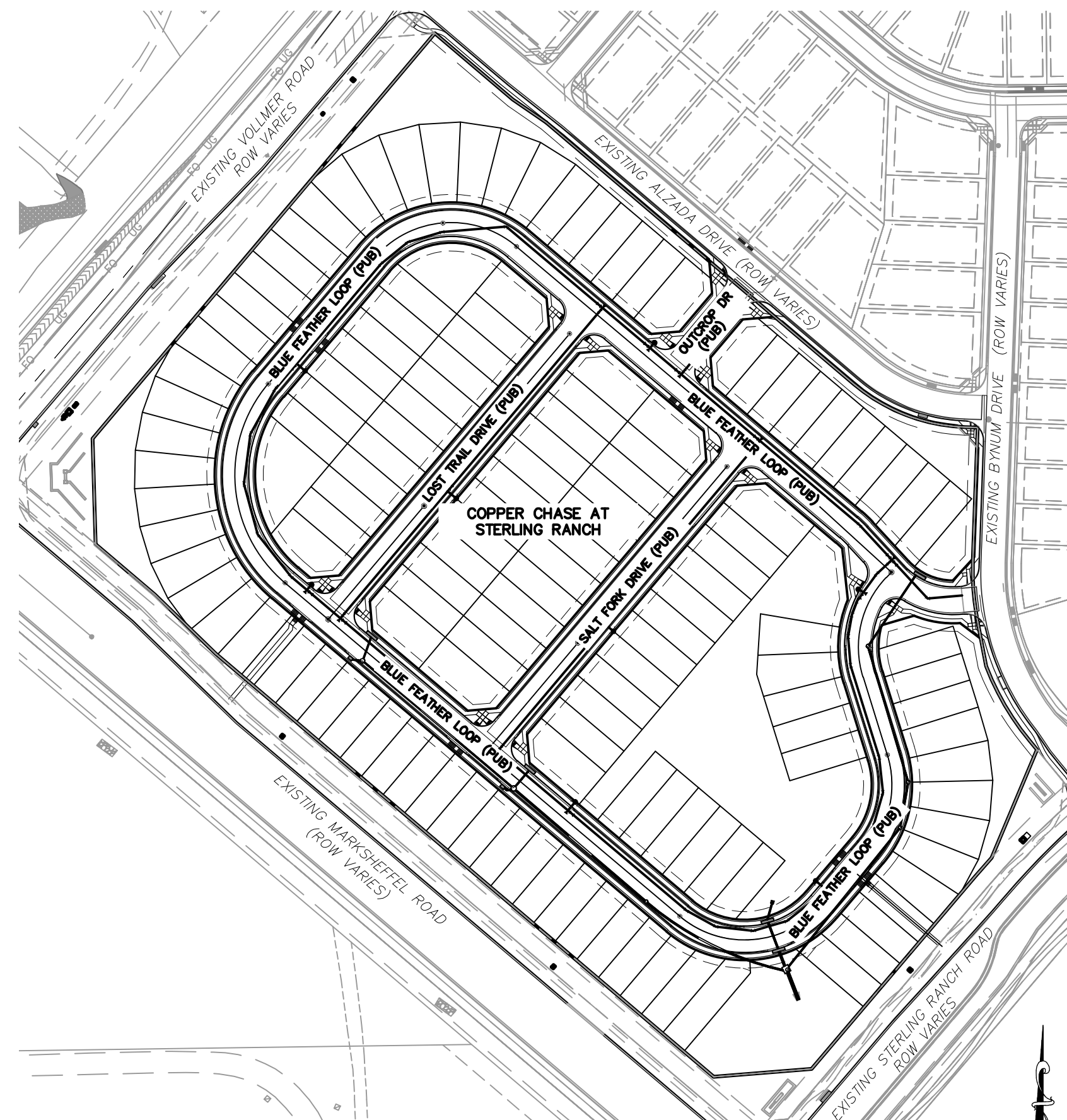
VICINITY MAP  
N.T.S.

### BENCHMARKS

- THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411416.273  
EASTING = 235167.071  
ELEVATION = 7023.42
- THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION  
NORTHING = 410095.404  
EASTING = 235052.131  
ELEVATION = 7000.40
- THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION  
NORTHING = 411399.962  
EASTING = 233849.817  
ELEVATION = 7030.82

### BASIS OF BEARINGS

THE BASIS OF BEARINGS IS THE WESTERLY LINE OF TRACT E, "STERLING RANCH FILING NO. 2" AS RECORDED UNDER RECEPTION NO. 222714894 IN THE EL PASO COUNTY, COLORADO RECORDS. SAID LINE IS MONUMENTED AT EACH END WITH A SET NO. 5 REBAR AND ORANGE CAP STAMPED "M&S CIVIL PLUS 25966" AND BEARS N40°10'47"E A DISTANCE OF 657.33 FEET. THE UNIT OF MEASUREMENT FOR ALL DISTANCES IS THE U.S. SURVEY FOOT.



SITE MAP  
N.T.S.

### DESIGN ENGINEER'S STATEMENT

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



08-15-23  
DATE  
VIRGIL A. SANCHEZ, COLORADO P.E. #37160  
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

### OWNER/DEVELOPER'S STATEMENT:

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

*Jim Byers*  
DATE

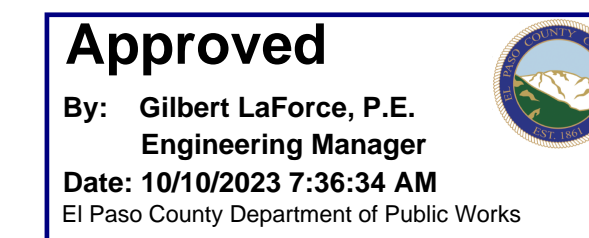
08-15-23  
DATE  
JIM BYERS (VICE PRESIDENT)  
CHALLENGER COMMUNITIES, LLC  
8605 EXPLORER DR. SUITE 250  
COLORADO SPRINGS, CO 80920

### EL PASO COUNTY:

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

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

IN ACCORDANCE WITH 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 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 DIRECTORS DISCRETION.



08-15-23  
DATE  
JOSH PALMER, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR

### SHEET INDEX

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COPPER CHASE AT STERLING RANCH		CONSTRUCTION PLANS		DATE: 08/05/2023		SHEET 1 OF 16		S101	
PROJECT NO. 09-014		SCALE: HORIZONTAL: N.T.S. VERTICAL: N/A		DESIGNED BY: CWV		DRAWN BY: TAU		CHECKED BY: DLM	
212 N. WAHSATCH AVE, STE 305 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5485									
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.									
REVISIONS:	NO.	DATE:	BY:	DESCRIPTION:	APPROVED BY:	DATE:	THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARE OF THESE PLANS.		
CAUTION									

**GENERAL CONSTRUCTION NOTES:**

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 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.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED PER THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PCD.
- ALL STATIONING IS CENTERLINE OF IMPROVEMENTS UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED AS TOP BACK OF CURB (TBC), ASPHALT (ASP), OR TOP OF INLET OR BOX (TOB).
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO EPC ECM APPENDIX K-1.2C.
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES IS REQUIRED AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" VERTICAL IN THIS AREA.
- ALL CULVERTS AND STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), OR REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 - CULVERTS.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT THE 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 EL PASO COUNTY PCD PRIOR TO CONSTRUCTION.

**SIGNAGE AND STRIPING NOTES:**

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 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.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- 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"
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
- 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.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

**STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS**

- 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.
- 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).
- 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:
  - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - CDOT M & S STANDARDS.
- 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.
- 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.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 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 (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 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.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 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.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 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.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- 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.
- 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.

**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	XSPAN	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
ROW	RIGHT OF WAY	E	EAST
EOP	EDGE OF PAVEMENT	LP	LOW POINT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
HP	HIGH POINT	RES	RESIDENTIAL

**STREET LEGEND**

BFP	BLUE FEATHER LOOP
OCF	OUTCROP DRIVE
SFP	SALT FORK DRIVE
LTP	LOST TRAIL DRIVE

**COPPER CHASE AT STERLING RANCH**

**CONSTRUCTION NOTES**

PROJECT NO. 09-014      SCALE: HORIZONTAL: N/A      VERTICAL: N/A

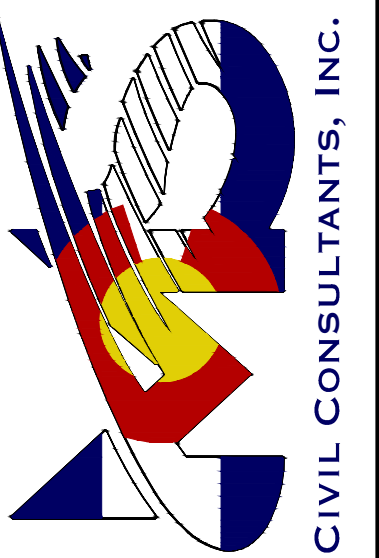
DESIGNED BY: CWV      CHECKED BY: DLM

DRAWN BY: TAU

DATE: 08/05/2023      SHEET 2 OF 16

**SI02**

212 N. WABATCH AVE., STE 305  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.555.5465



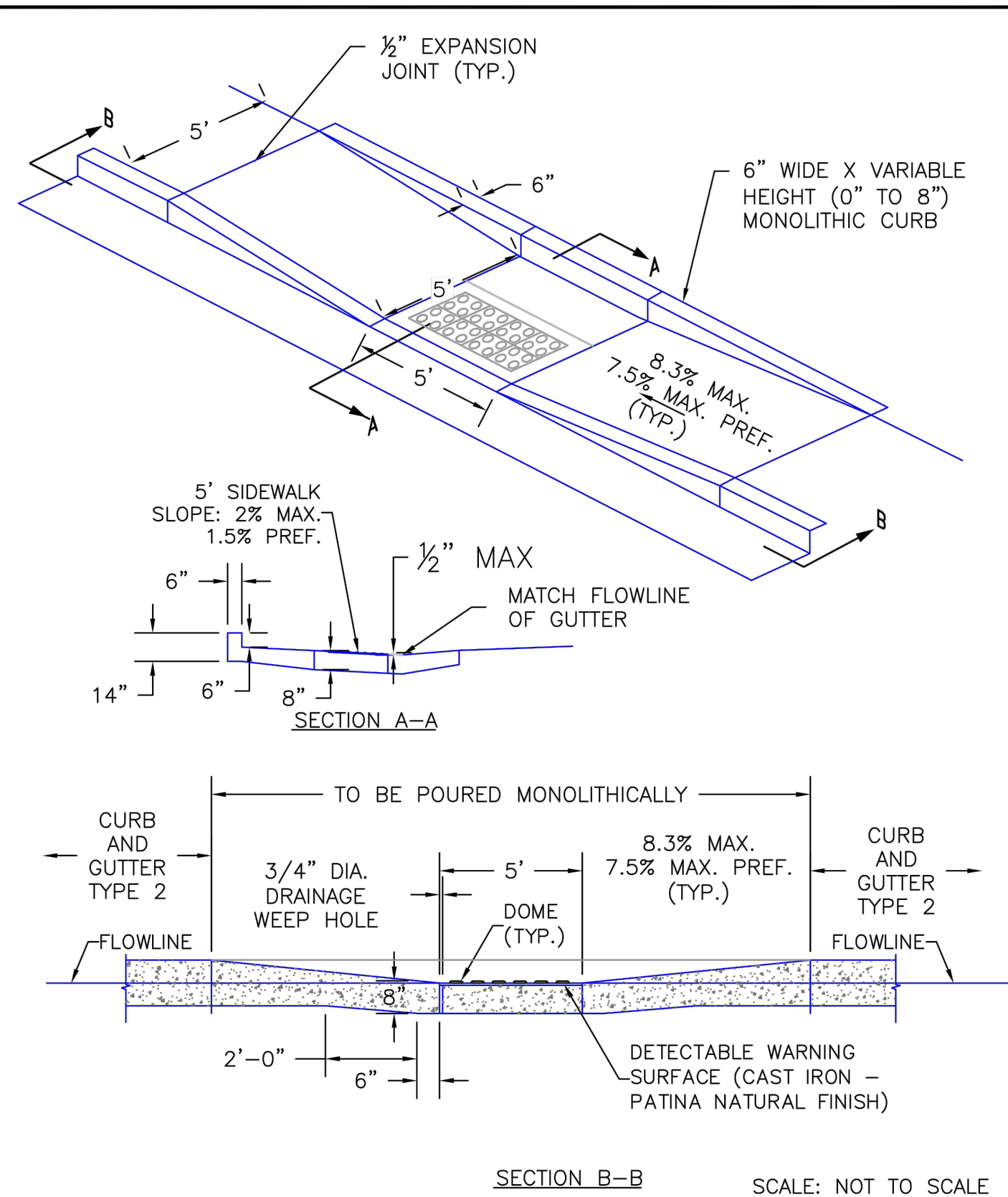
FOR AND ON BEHALF OF  
 VIRGIL A. SANCHEZ, P.E.  
 CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION	APPR'D. BY	DATE

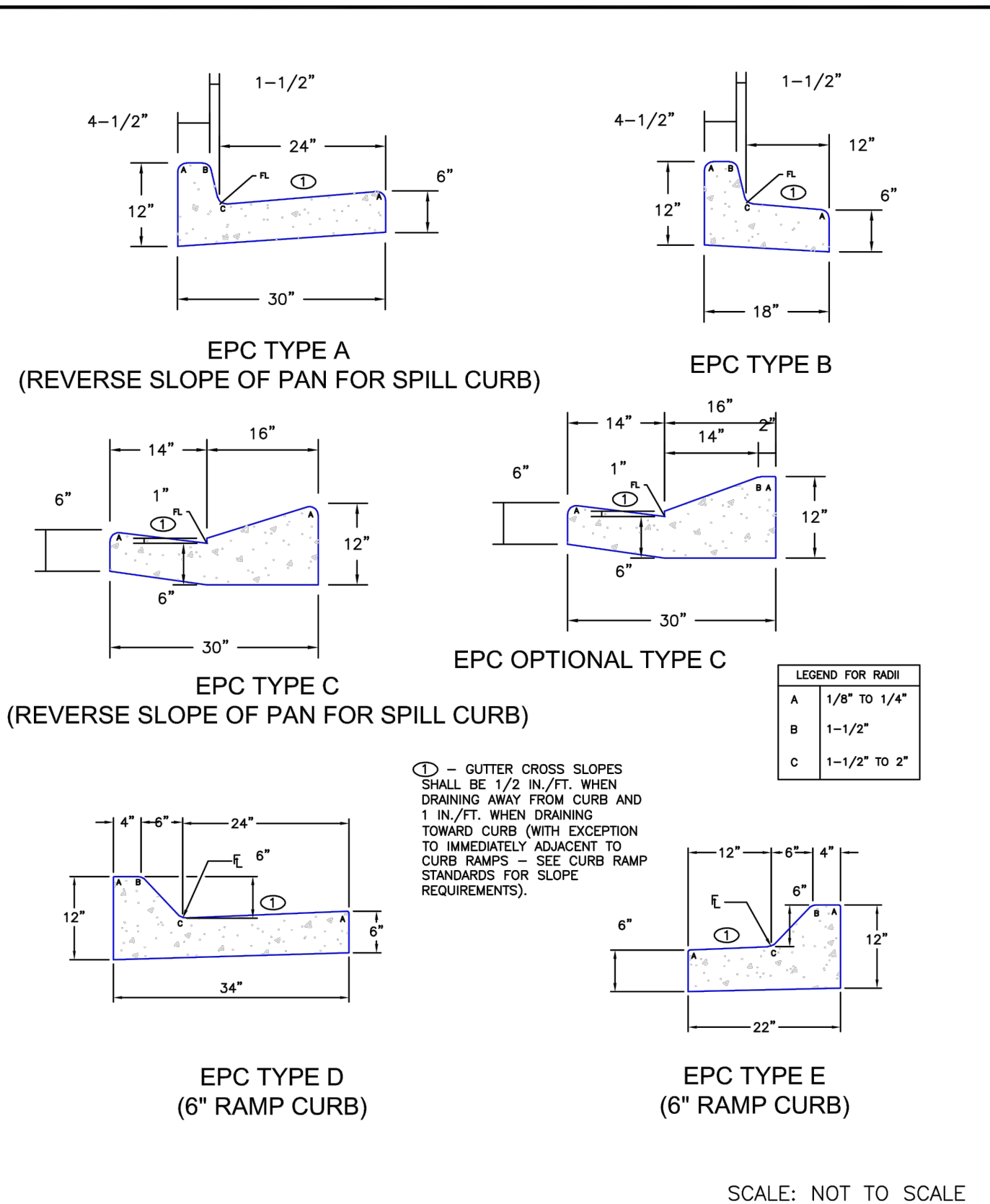
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**CAUTION**

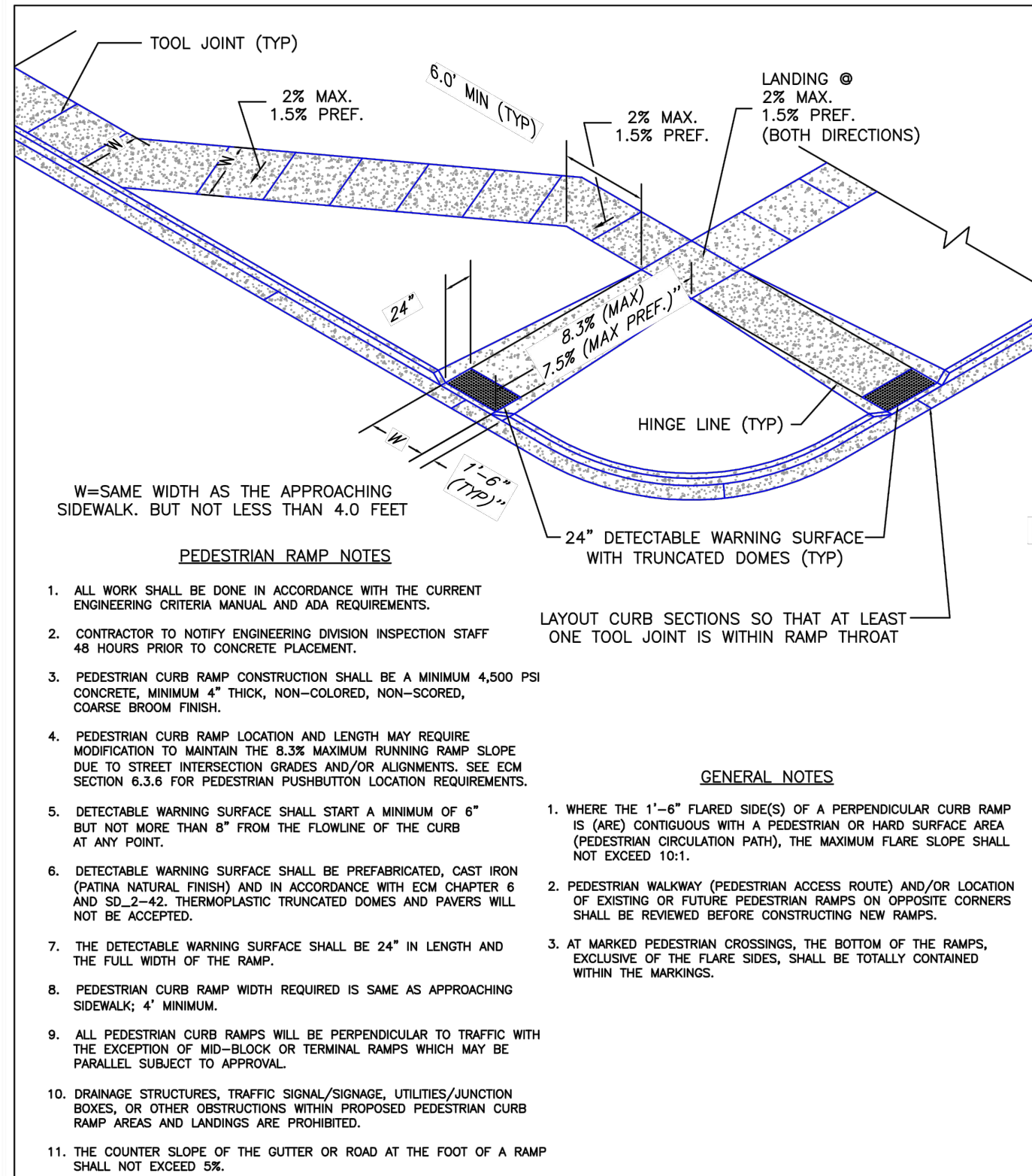




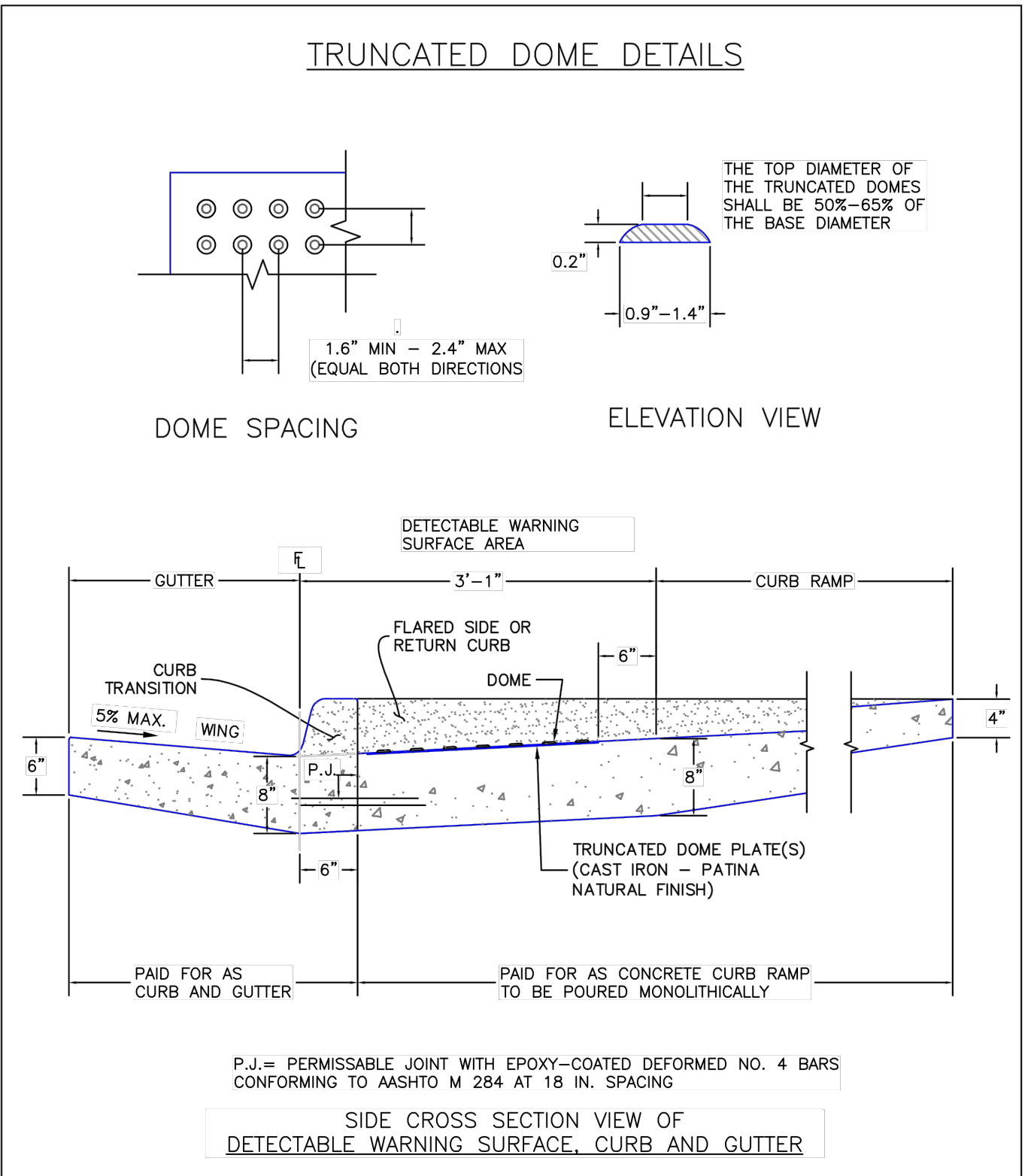
6/23/20	Parallel Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED:	REVISION DATE: 6/23/20 FILE NAME: SD_2-50	JENNIFER E. IRVINE



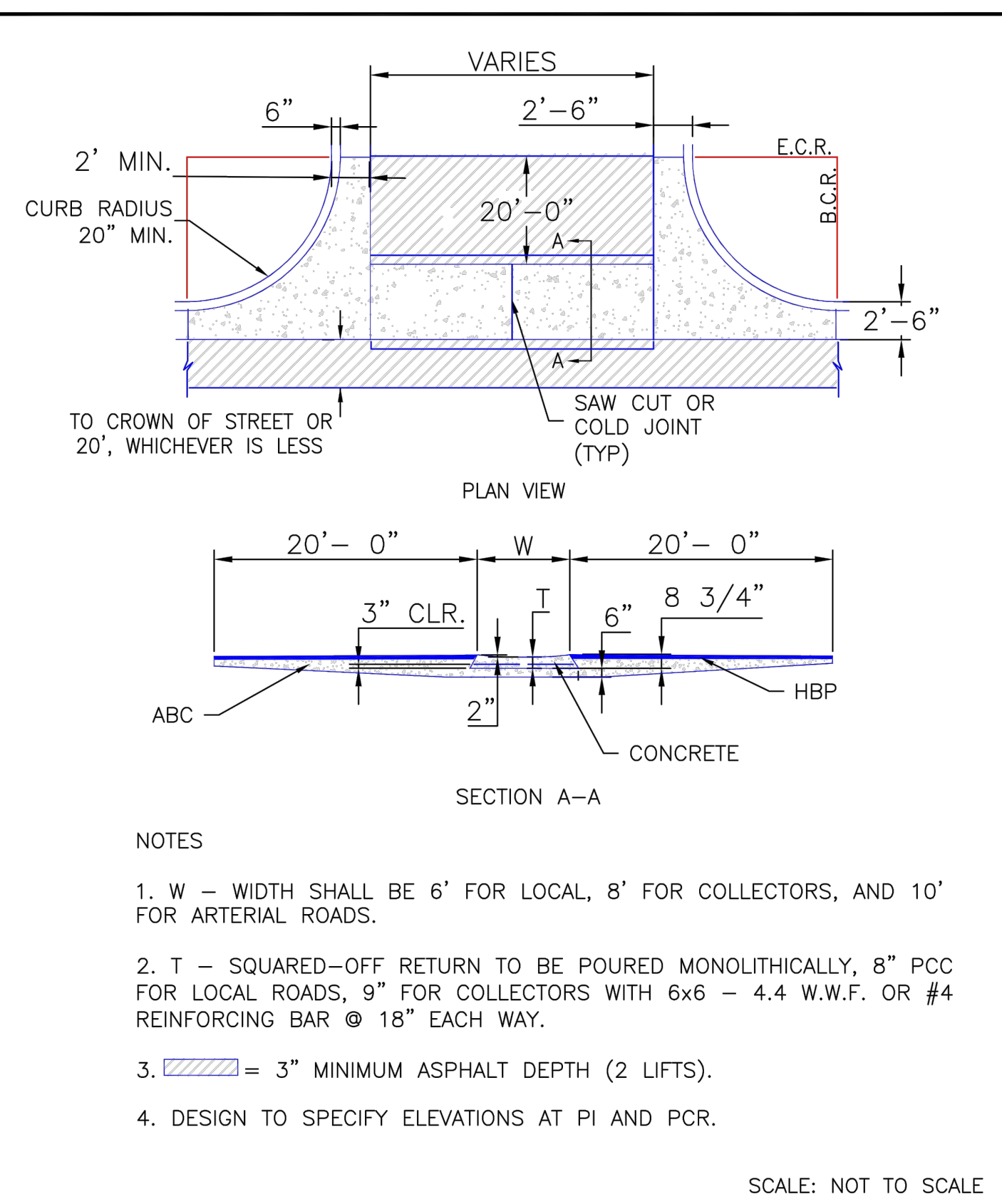
6/23/20	Typical Curb and Gutter Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED:	REVISION DATE: 6/23/20 FILE NAME: SD_2-20	JENNIFER E. IRVINE



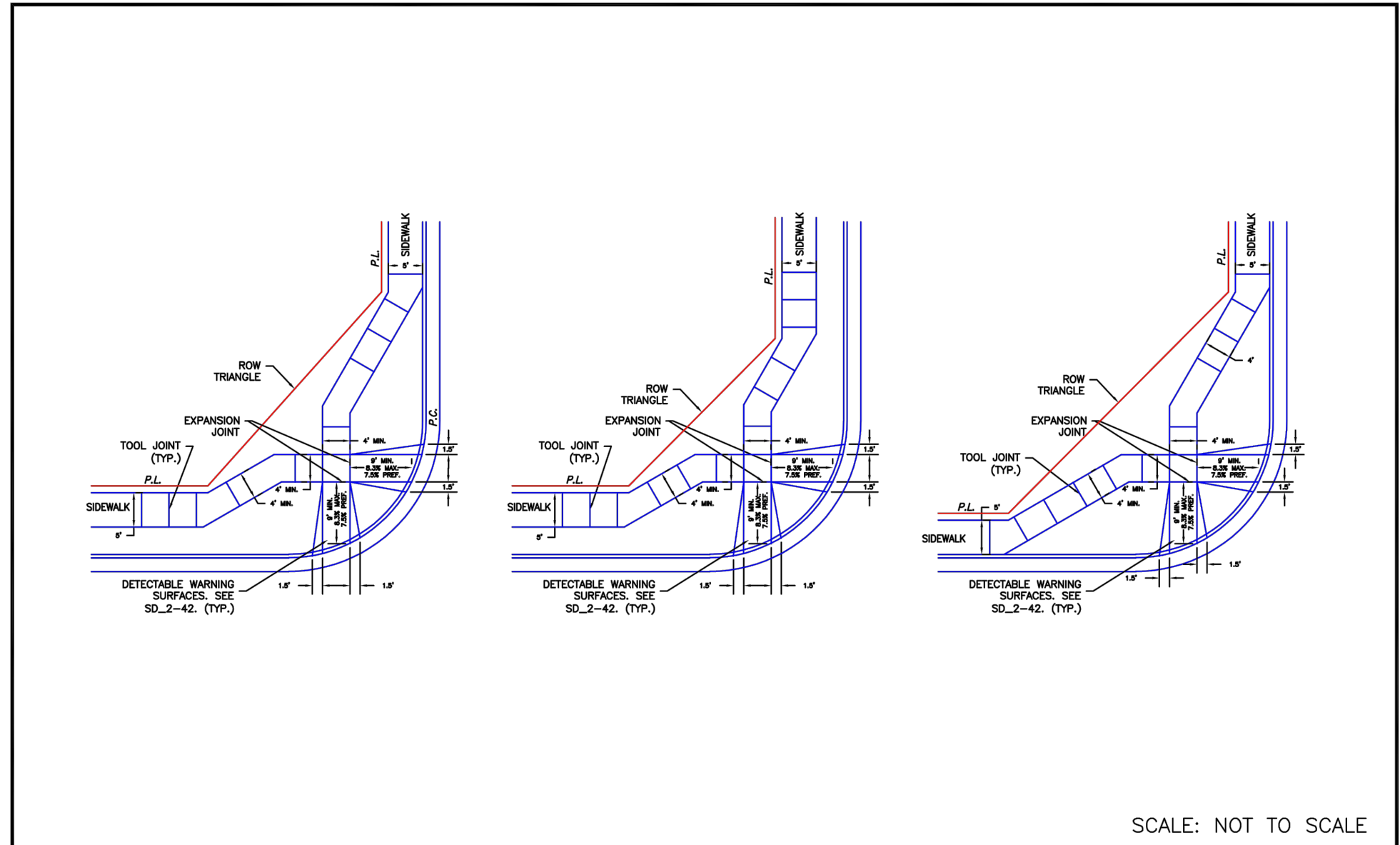
6/23/20	Pedestrian Curb Ramp Detail Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED:	REVISION DATE: 6/23/20 FILE NAME: SD_2-41	JENNIFER E. IRVINE



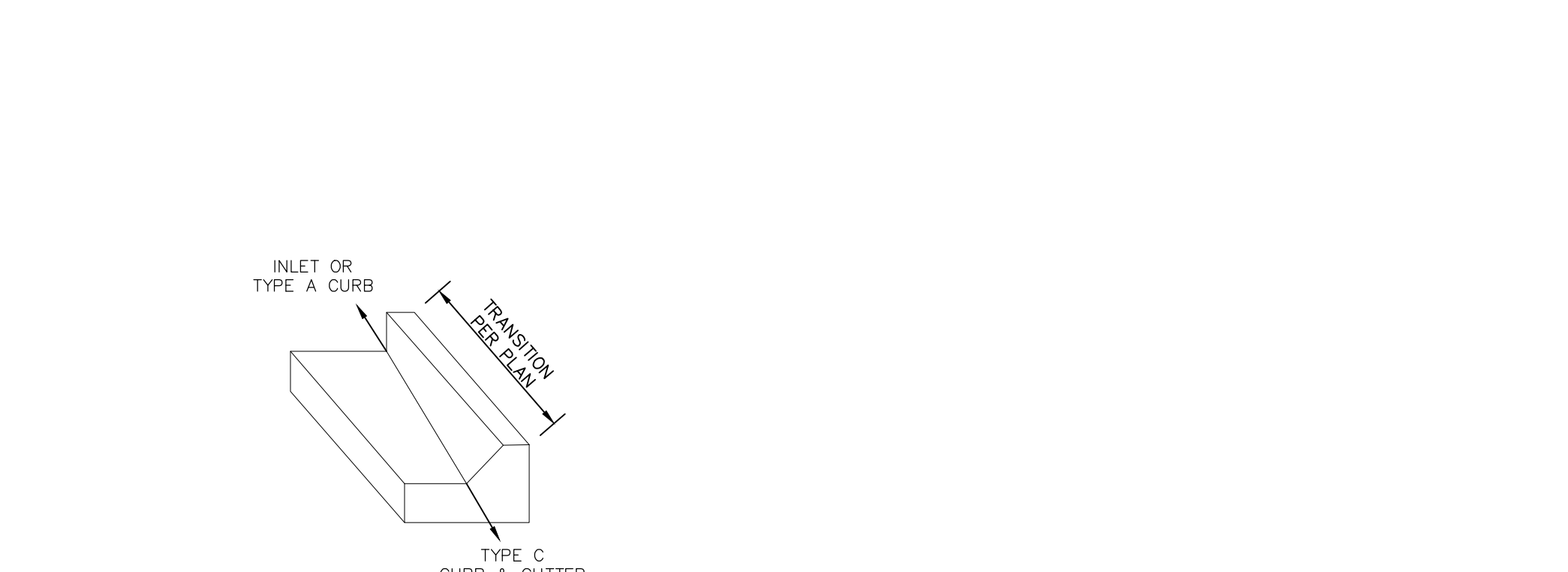
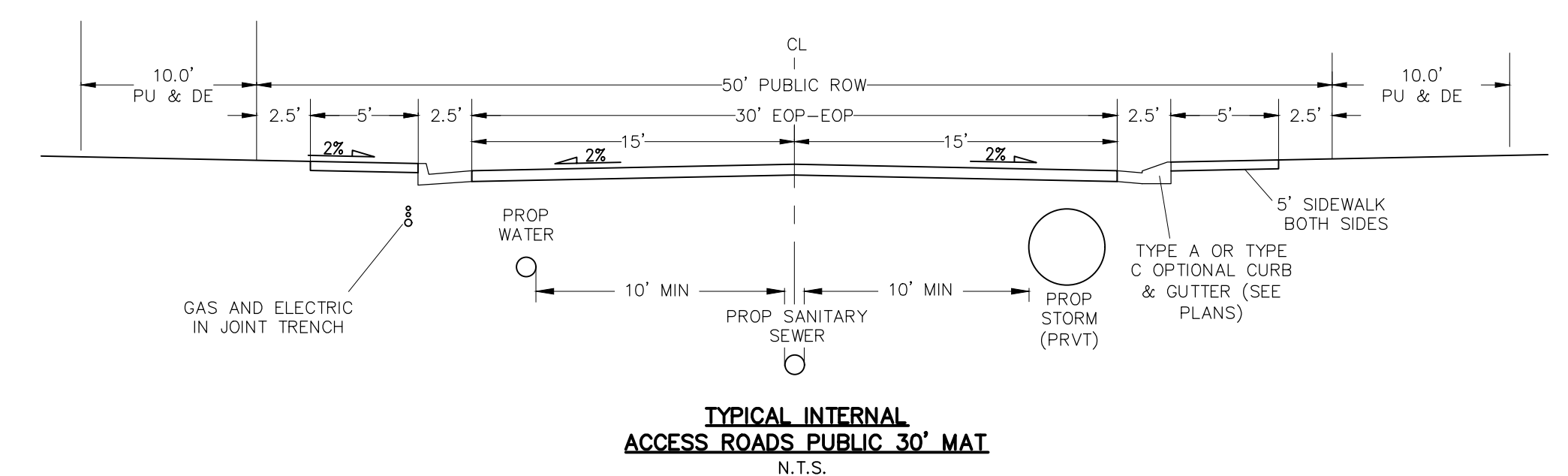
6/23/20	Detectable Warning Surface Details Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED:	REVISION DATE: 6/23/20 FILE NAME: SD_2-42	JENNIFER E. IRVINE



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



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



6/23/20	Curb Transition Standard Drawing	DEPARTMENT OF PUBLIC WORKS
DATE APPROVED:	REVISION DATE: 6/23/20 FILE NAME: SD_2-40	JENNIFER E. IRVINE

COPPER CHASE AT STERLING RANCH  
STREET SECTION AND DETAILS  
PROJECT NO. 09-014  
DATE: 08/05/2023  
SCALE: HORIZONTAL: N/A VERTICAL: N/A  
DESIGNED BY: CWV  
DRAWN BY: TAU  
CHECKED BY: DLM  
SHEET 3 OF 16  
S103

210 N. WASHCATCH AVE., STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.555.5465

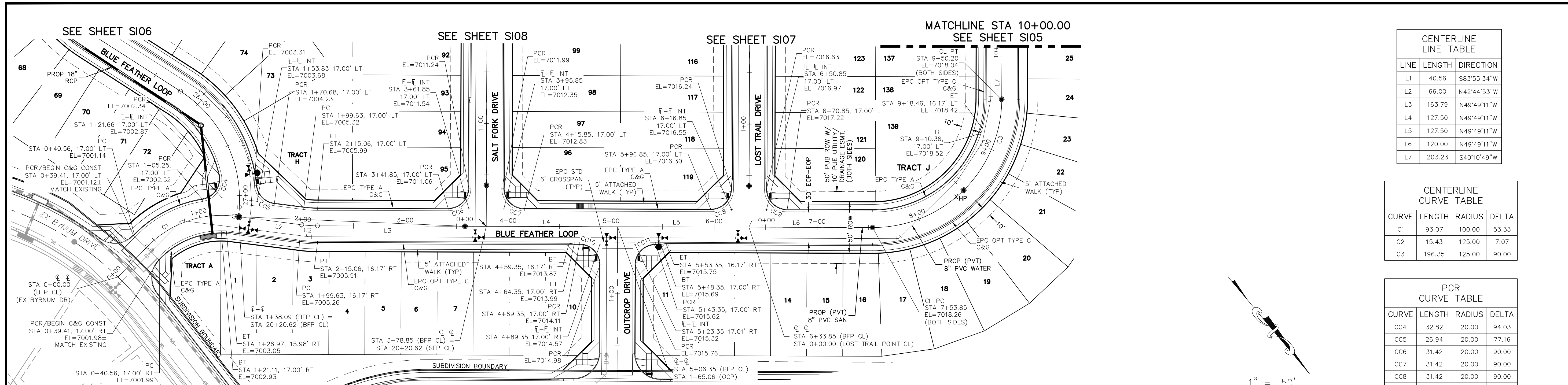
FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER  
NO. 17857  
08-15-23  
37160

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

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CAUTION

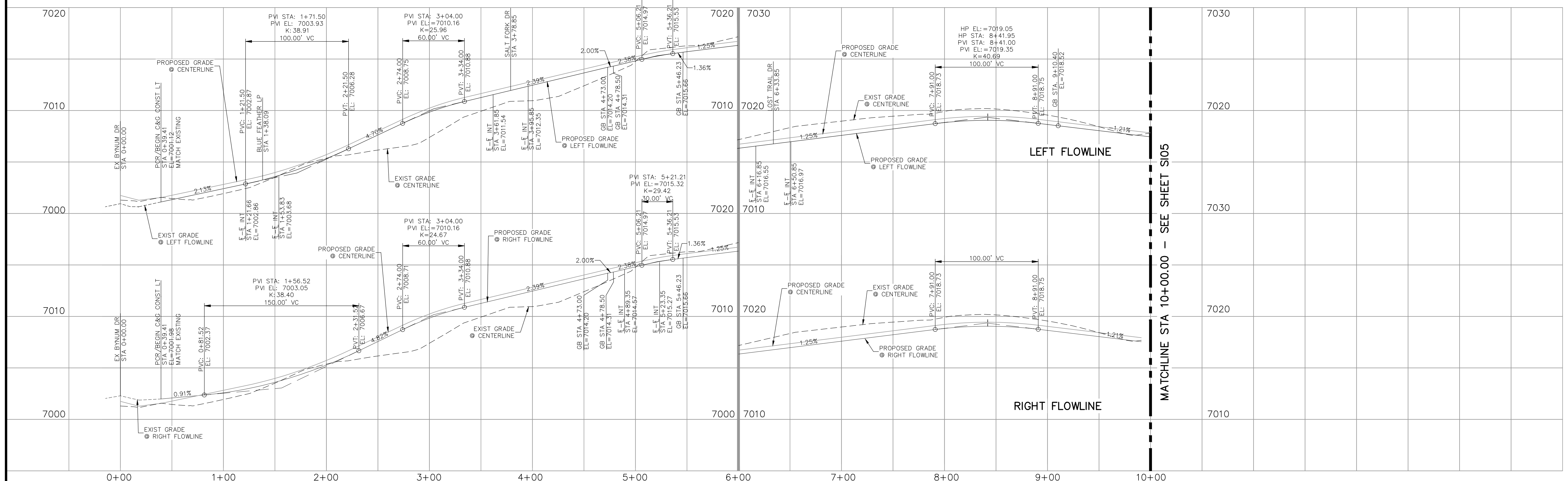
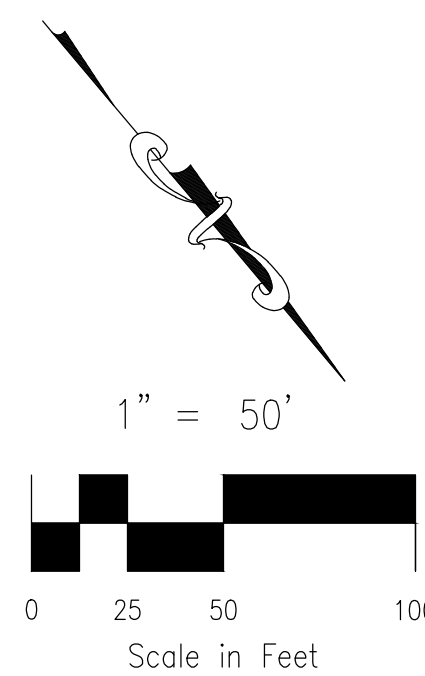


SEE SHEET S106  
**BLUE FEATHER LOOP**  
 STA 0+00.00 TO STA 10+00.00

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L1	40.56	S83°55'34"W
L2	66.00	N42°44'53"W
L3	163.79	N49°49'11"W
L4	127.50	N49°49'11"W
L5	127.50	N49°49'11"W
L6	120.00	N49°49'11"W
L7	203.23	S40°10'49"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	93.07	100.00	53.33
C2	15.43	125.00	7.07
C3	196.35	125.00	90.00

PCR CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
CC4	32.82	20.00	94.03
CC5	26.94	20.00	77.16
CC6	31.42	20.00	90.00
CC7	31.42	20.00	90.00
CC8	31.42	20.00	90.00
CC9	31.42	20.00	90.00
CC10	31.42	20.00	90.00
CC11	31.42	20.00	90.00



**BLUE FEATHER LOOP**  
 STA 0+00.00 TO STA 10+00.00

- 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 S109-S111 FOR INTERSECTION DETAILS.

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

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

**COPPER CHASE AT STERLING RANCH**  
**STREET IMPROVEMENT PLANS**

PROJECT NO. 09-014  
 SCALE: HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'

DATE: 08/05/2023  
 DESIGNED BY: CWV  
 DRAWN BY: TAU  
 CHECKED BY: DLM

212 N. WABATCH AVE, STE 305  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.955.5465

**CIVIL CONSULTANTS, INC.**

FOR AND ON BEHALF OF  
 WKS CIVIL CONSULTANTS, INC.

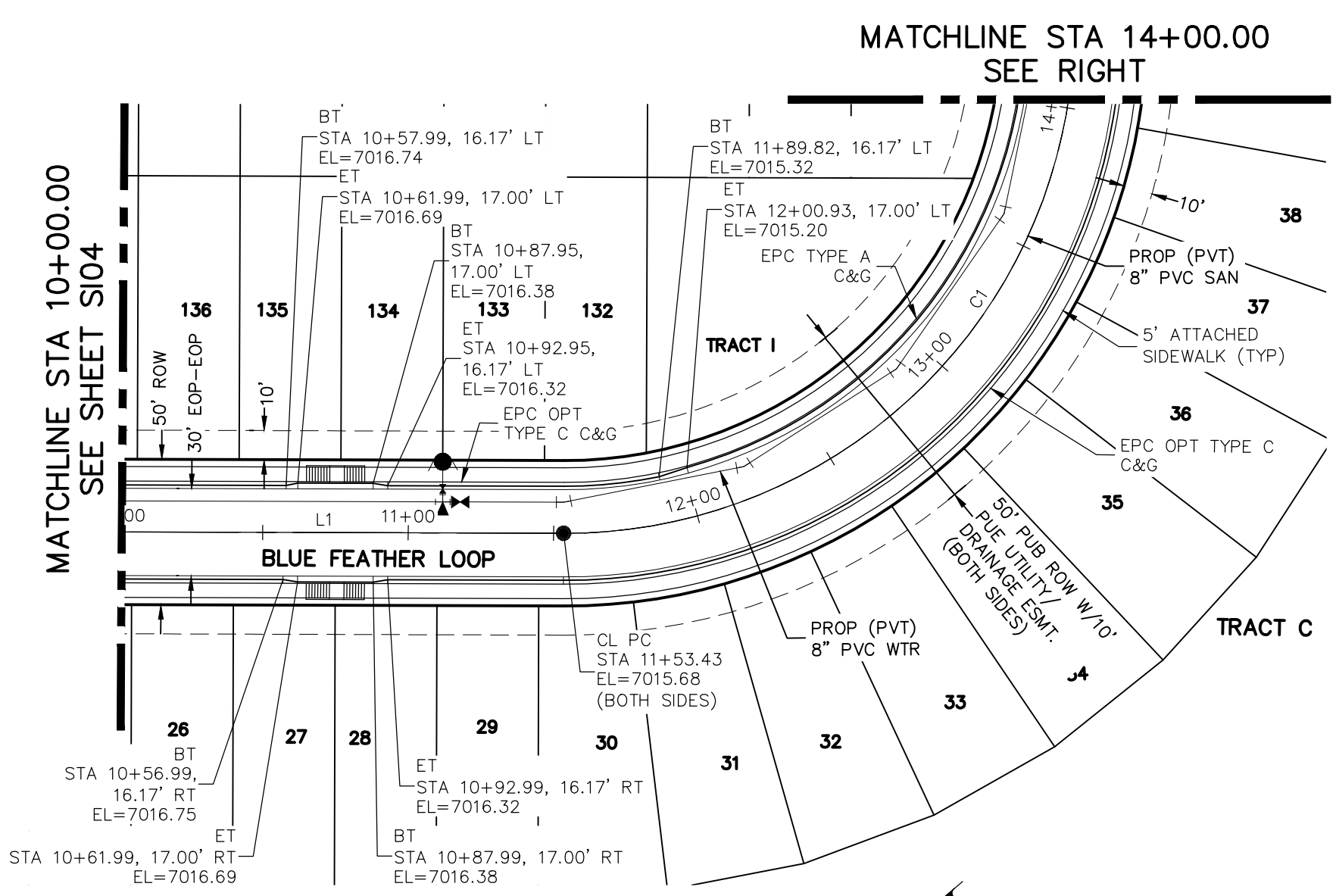
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160  
 REGISTERED PROFESSIONAL ENGINEER  
 08-15-23

REVISIONS:  
 NO. DATE BY DESCRIPTION

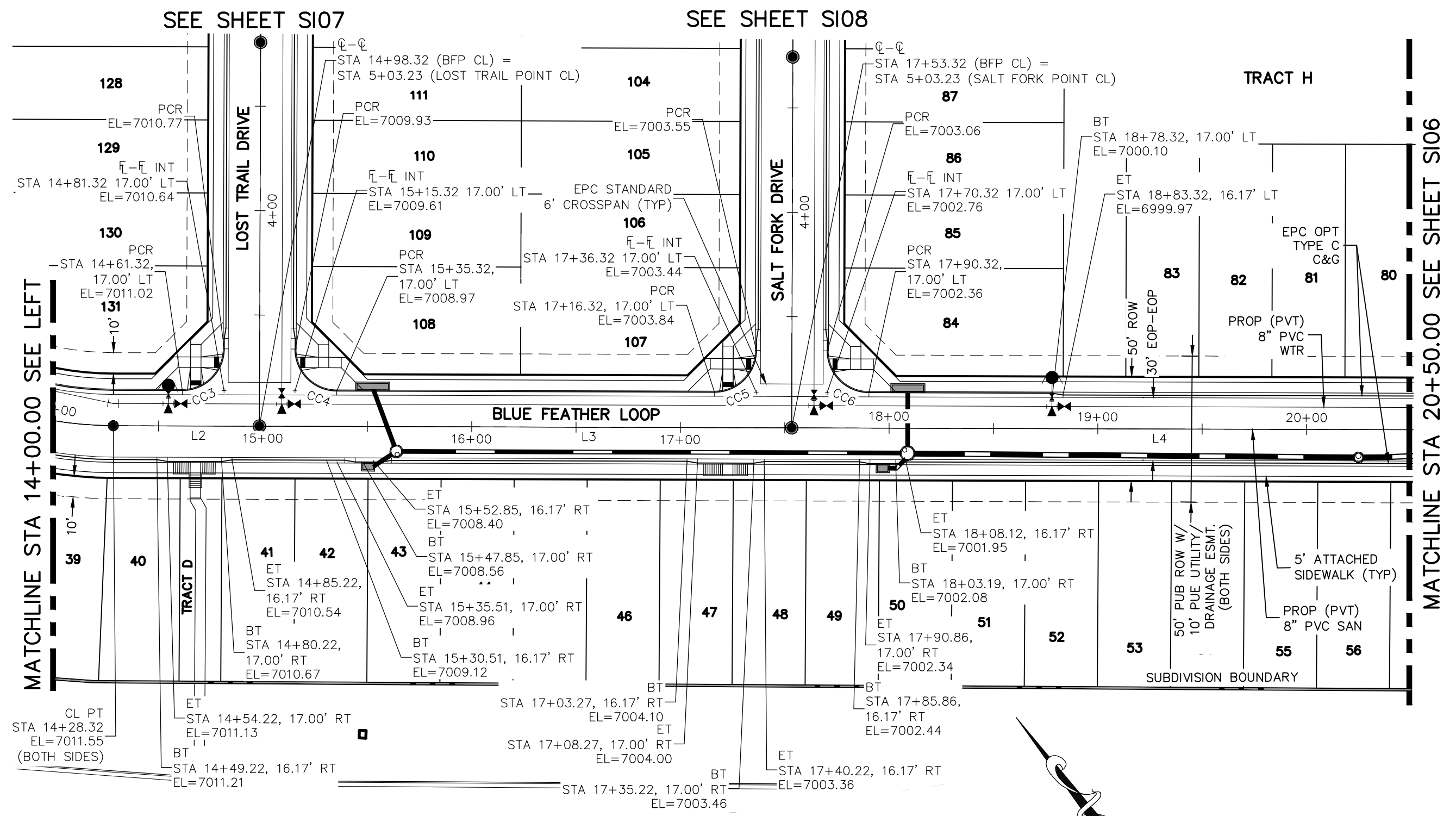
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CAUTION

EPC 10/10/2023



**BLUE FEATHER LOOP  
STA 10+00.00 TO STA 14+00.00**

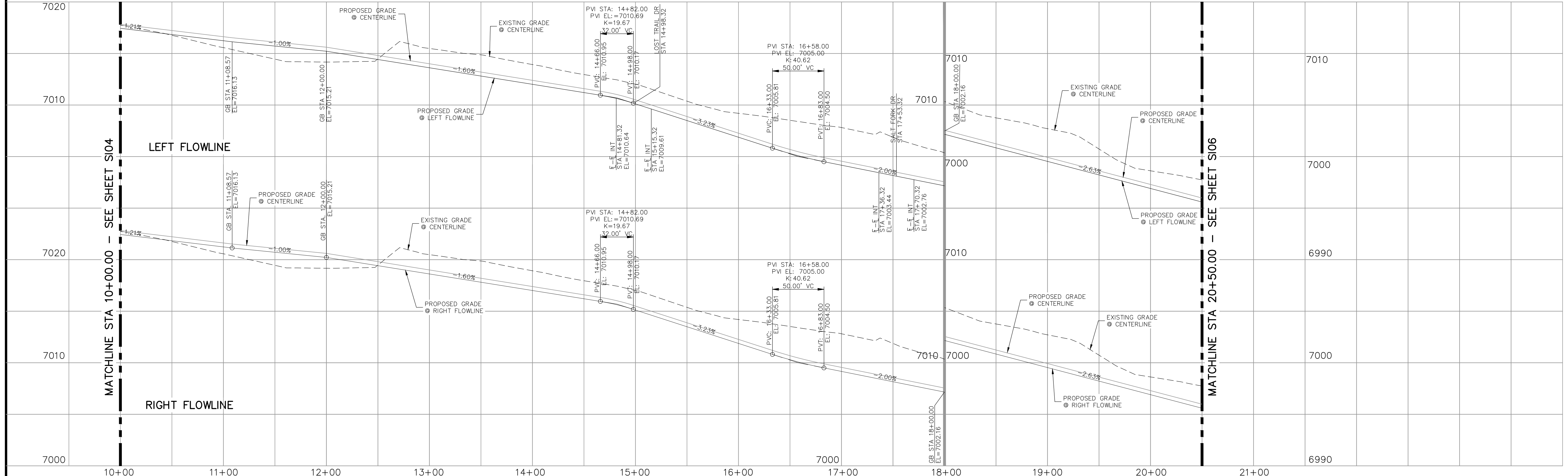
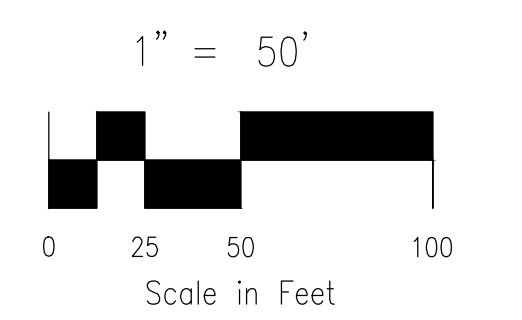


**BLUE FEATHER LOOP  
STA 14+00.00 TO STA 20+50.00**

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L1	203.23	S40° 10' 49.19"W
L2	70.00	S49° 49' 10.80"E
L3	255.00	S49° 49' 10.81"E
L4	314.73	S49° 49' 10.81"E

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	274.89	175.00	90.00

PCR CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
CC3	31.42	20.00	90.00
CC4	31.42	20.00	90.00
CC5	31.42	20.00	90.00
CC6	31.42	20.00	90.00



**BLUE FEATHER LOOP  
STA 10+00.00 TO STA 20+50.00**

**NOTES:**

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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

**COPPER CHASE AT STERLING RANCH  
STREET IMPROVEMENT PLANS**

PROJECT NO. 09-014 DATE: 08/05/2023

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

DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

212 N. WABATCH AVE, STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.555.5465

**CIVIL CONSULTANTS, INC.**

FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

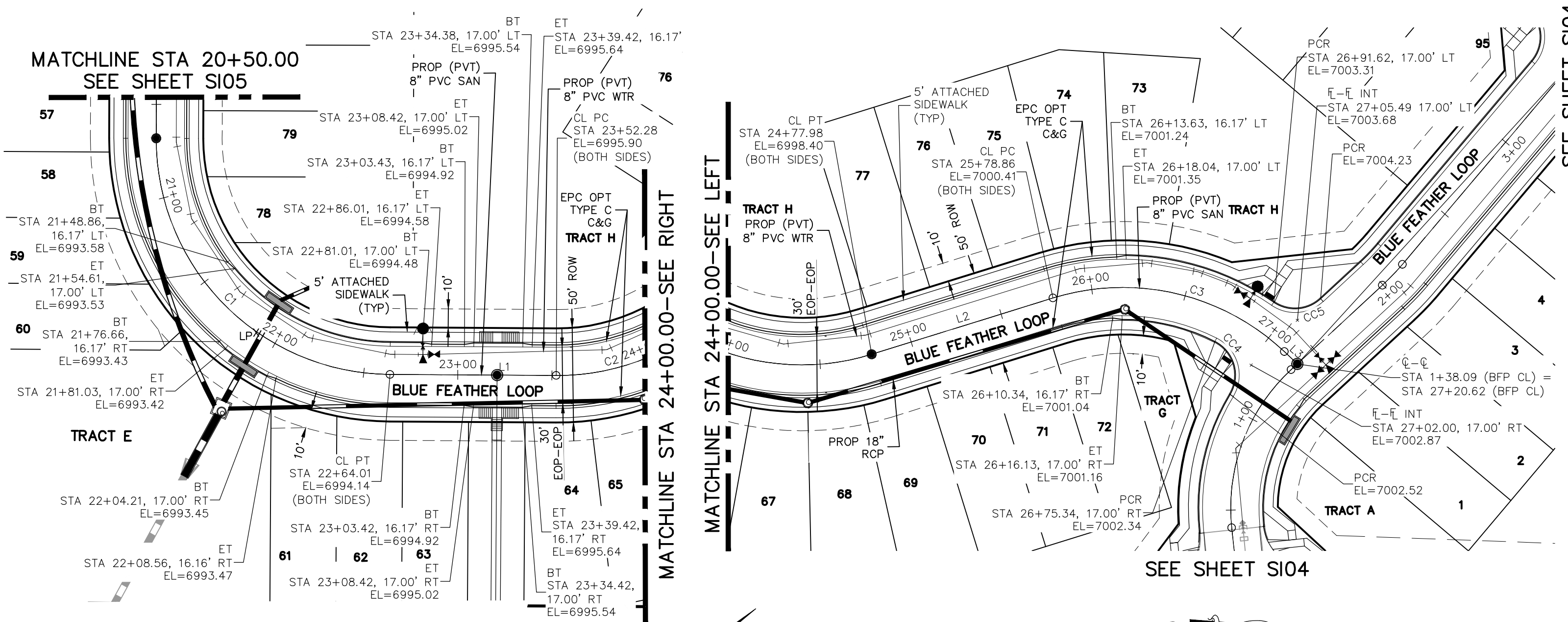
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER  
NO. 37160  
08-15-23

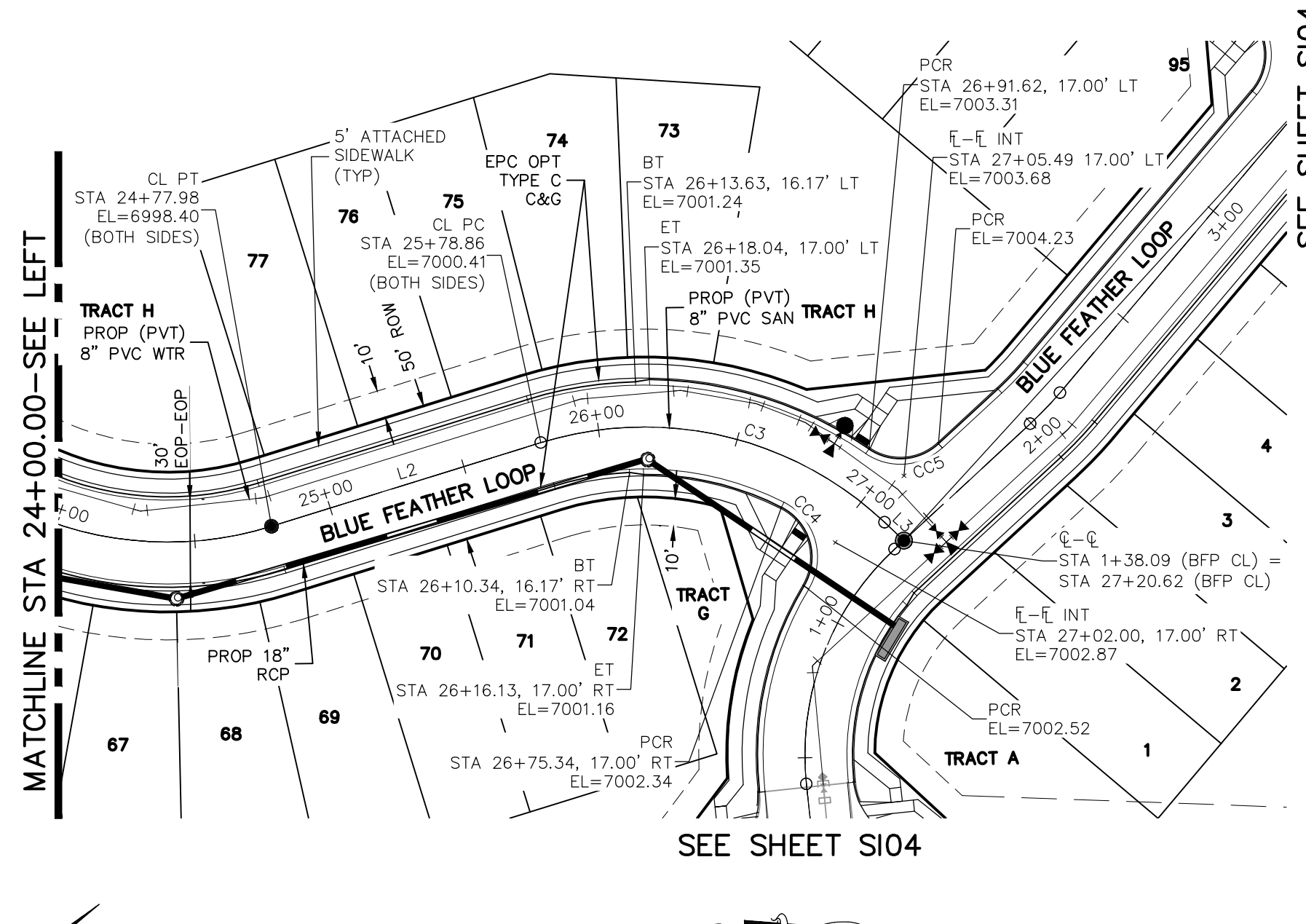
REVISIONS: NO. DATE BY DESCRIPTION

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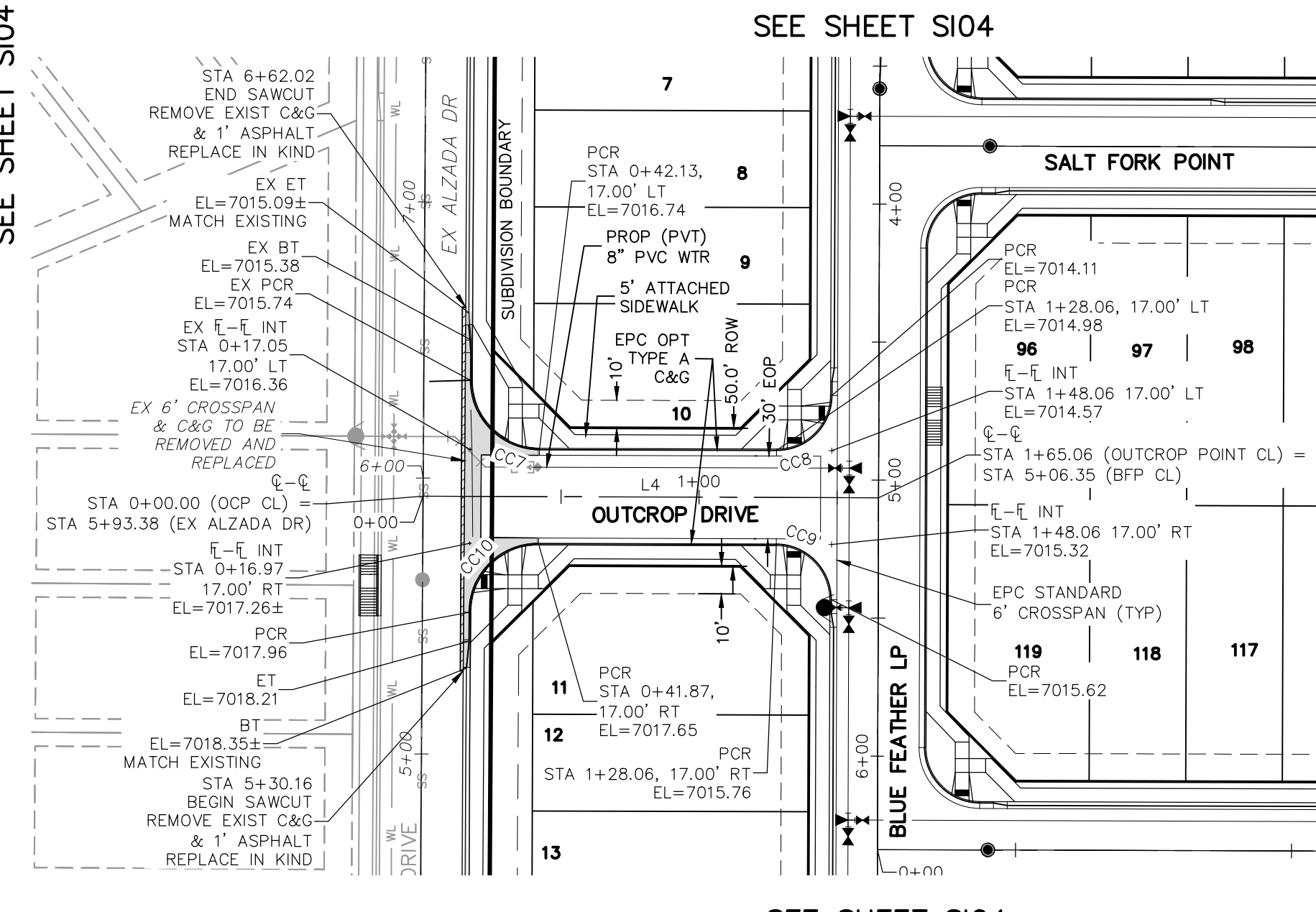
CAUTION



**BLUE FEATHER LOOP**  
STA 20+50.00 TO STA 24+00.00



**BLUE FEATHER LOOP**  
STA 24+00.00 TO STA 27+20.62



**OUTCROP DRIVE**  
STA 0+00.00 TO STA 1+65.06

CENTERLINE LINE TABLE

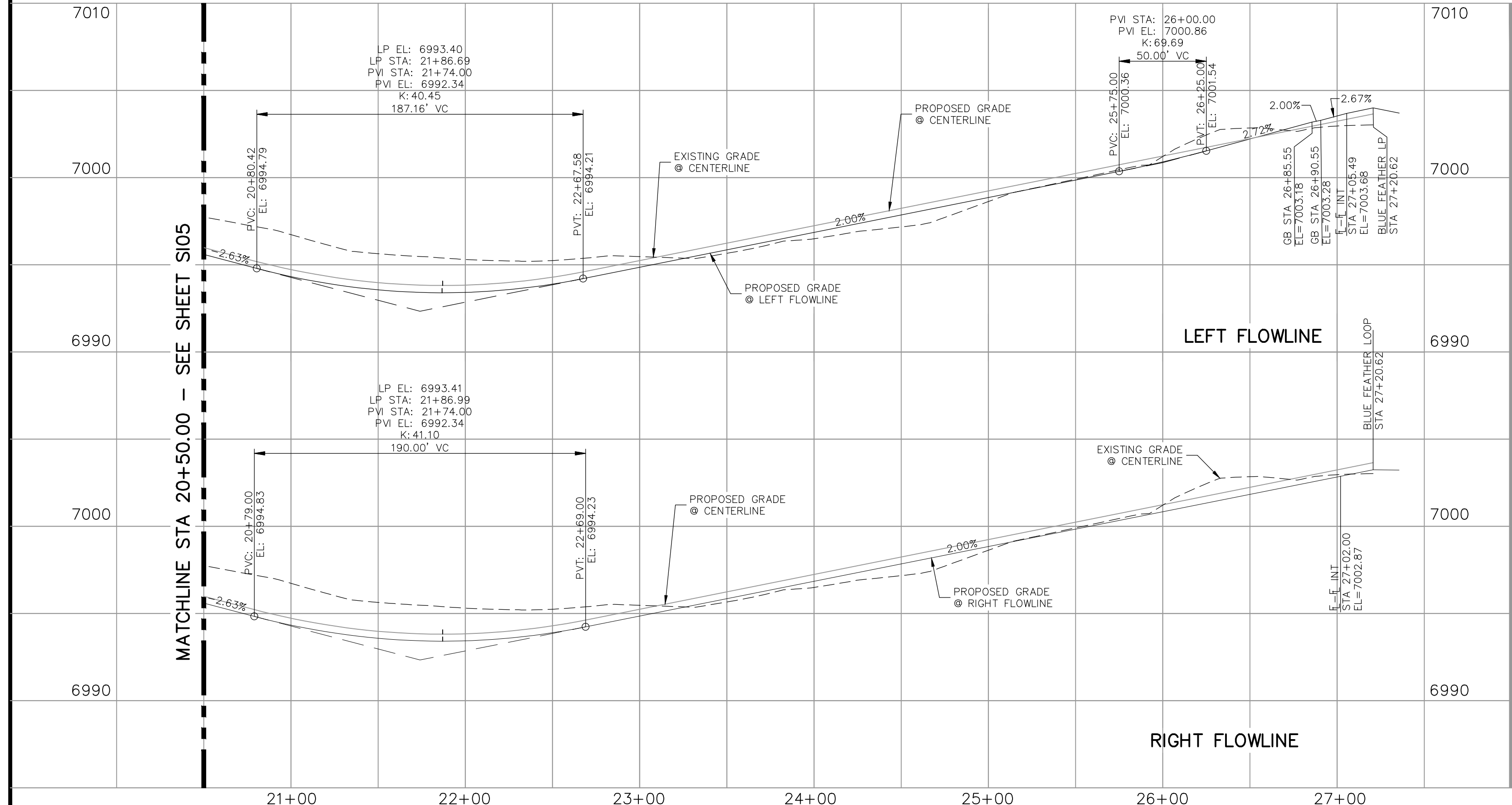
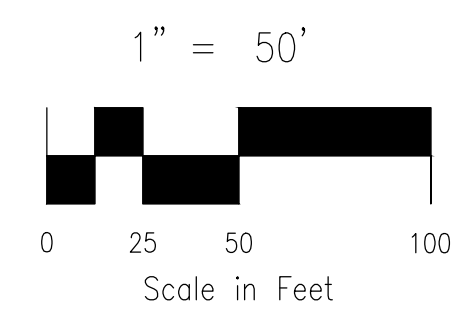
LINE	LENGTH	DIRECTION
L1	88.27	N40° 21' 31.02"E
L2	100.87	N17° 15' 30.71"W
L3	9.50	N43° 21' 57.70"E
L4	165.06	S40° 10' 49.19"W

CENTERLINE CURVE TABLE

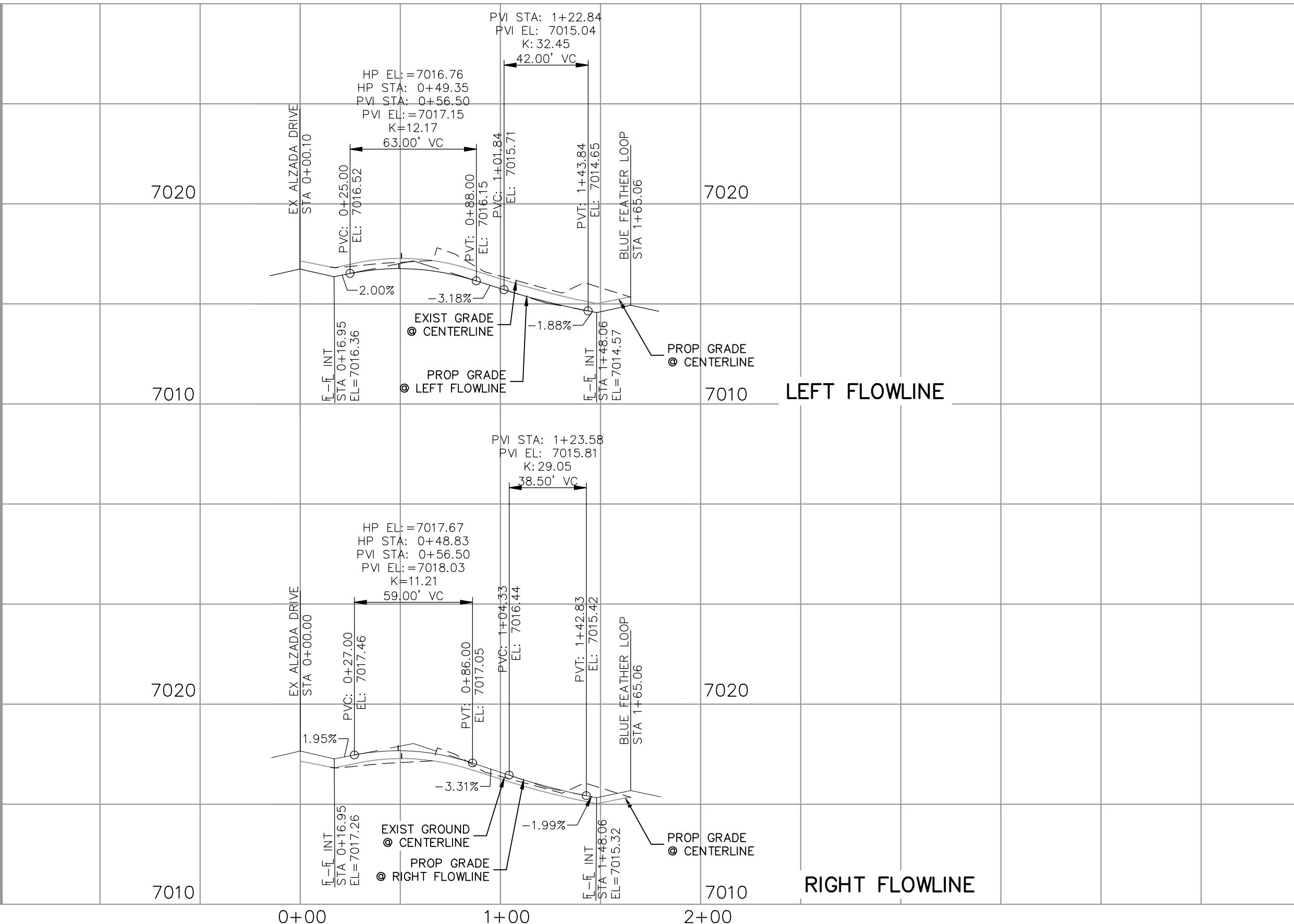
CURVE	LENGTH	RADIUS	DELTA
C1	195.96	125.00	89.82
C2	125.70	125.00	57.62
C3	132.26	125.00	60.62

PCR CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
CC4	32.82	20.00	94.03
CC5	26.94	20.00	77.16
CC7	39.35	25.00	90.18
CC8	31.42	20.00	90.00
CC9	31.42	20.00	90.00
CC10	39.28	25.00	90.03



**BLUE FEATHER LOOP**  
STA 20+50.00 TO STA 27+20.62



**OUTCROP DRIVE**  
STA 0+00.00 TO STA 1+65.06

- 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 EOM STANDARD DETAILS SD\_2-40, SD\_2-41 AND SD\_2-42.
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FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

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**COPPER CHASE AT STERLING RANCH**  
**STREET IMPROVEMENT PLANS**

PROJECT NO. 09-014 DATE: 08/05/2023  
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
DESIGNED BY: CWV  
DRAWN BY: TAU  
CHECKED BY: DLM

210 N. WABASH AVE., STE. 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.955.5485

**CIVIL CONSULTANTS, INC.**

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

FOR AND ON BEHALF OF CIVIL CONSULTANTS, INC.

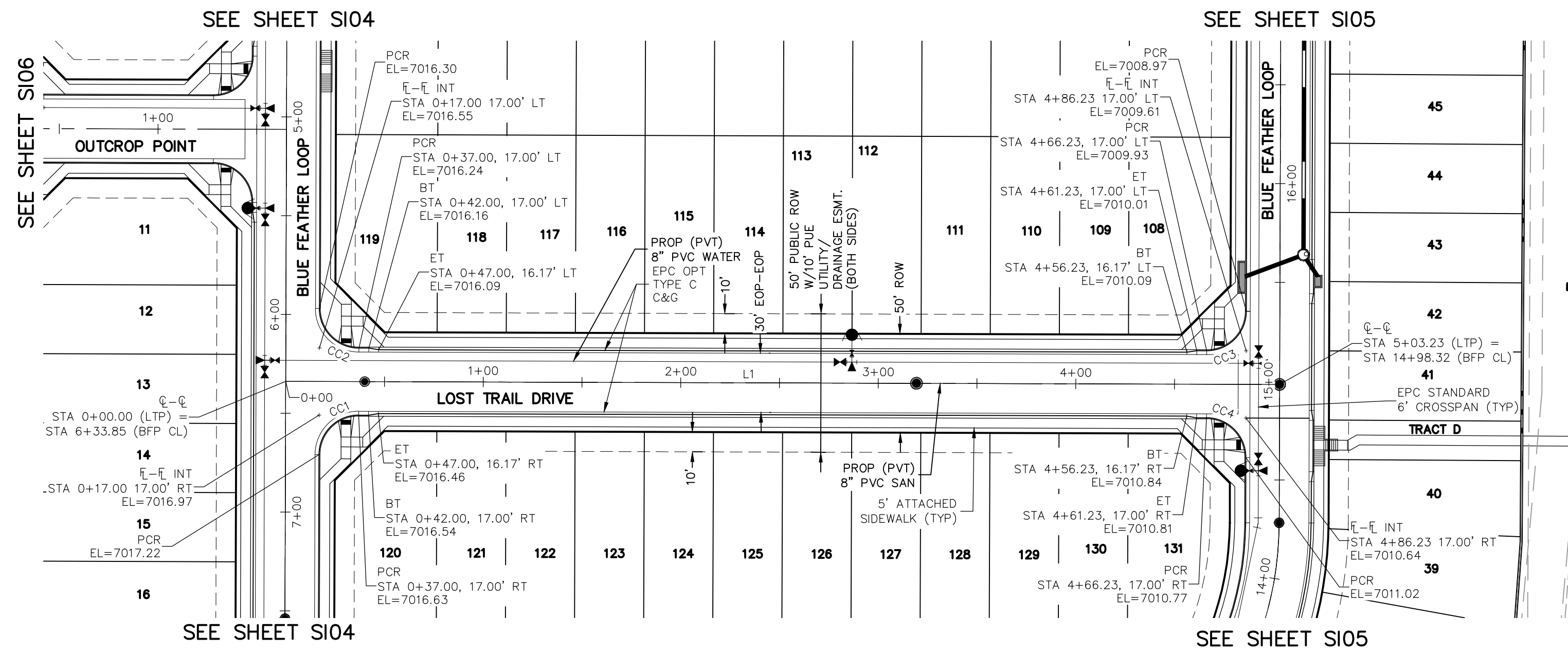
PROFESSIONAL SEAL: VIRGIL A. SANCHEZ, P.E. NO. 37160, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 08-15-23

REVISIONS: NO. DATE BY DESCRIPTION

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CAUTION

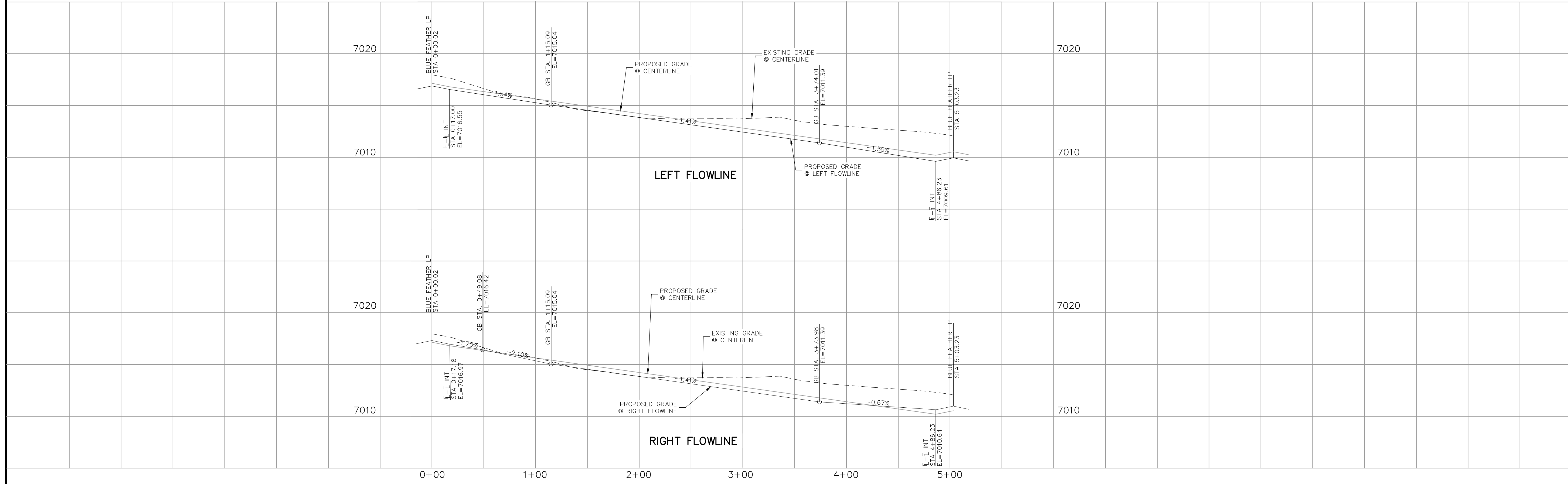
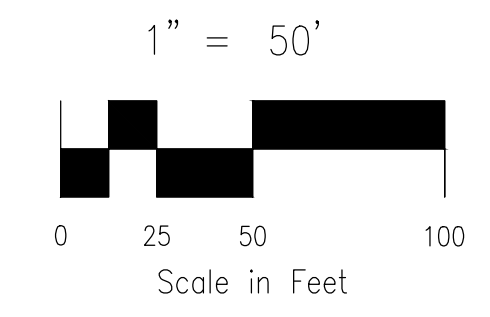
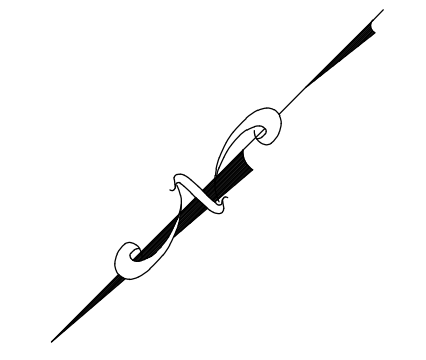
EPC 10/10/2023



**LOST TRAIL DRIVE  
STA 0+00.00 TO STA 5+03.23**

CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L1	503.23	S40° 10' 49.19\"/>

PCR CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
CC1	31.42	20.00	90.00
CC2	31.42	20.00	90.00
CC3	31.42	20.00	90.00
CC4	31.42	20.00	90.00



**LOST TRAIL DRIVE  
STA 0+00.00 TO STA 5+03.23**

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**COPPER CHASE AT STERLING RANCH**  
**STREET IMPROVEMENT PLANS**

PROJECT NO. 09-014 DATE: 08/05/2023  
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

212 N. WABATCH AVE, STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.955.5465

**CIVIL CONSULTANTS, INC.**

FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

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

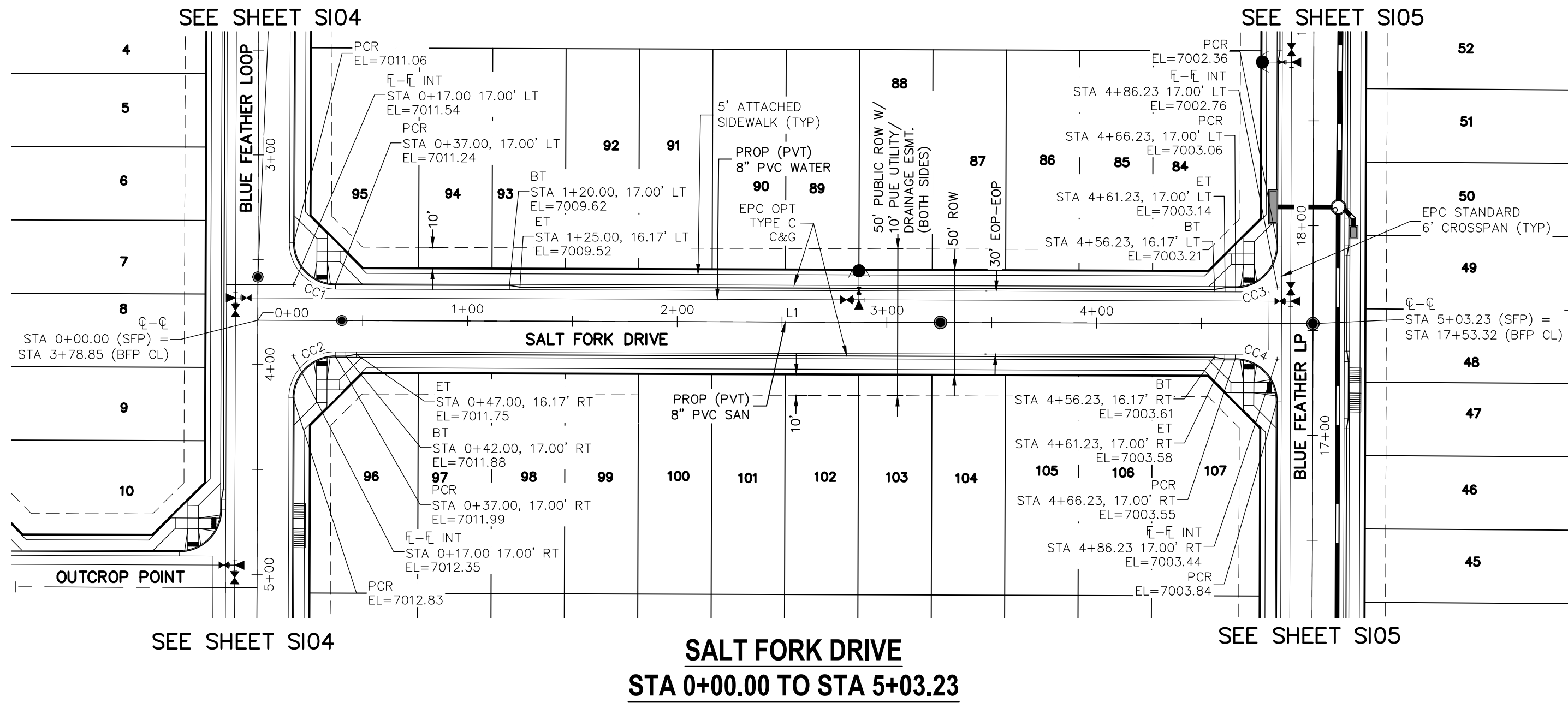
REGISTERED PROFESSIONAL ENGINEER  
NO. 37160  
08-15-23

NO.	DATE	BY	DESCRIPTION

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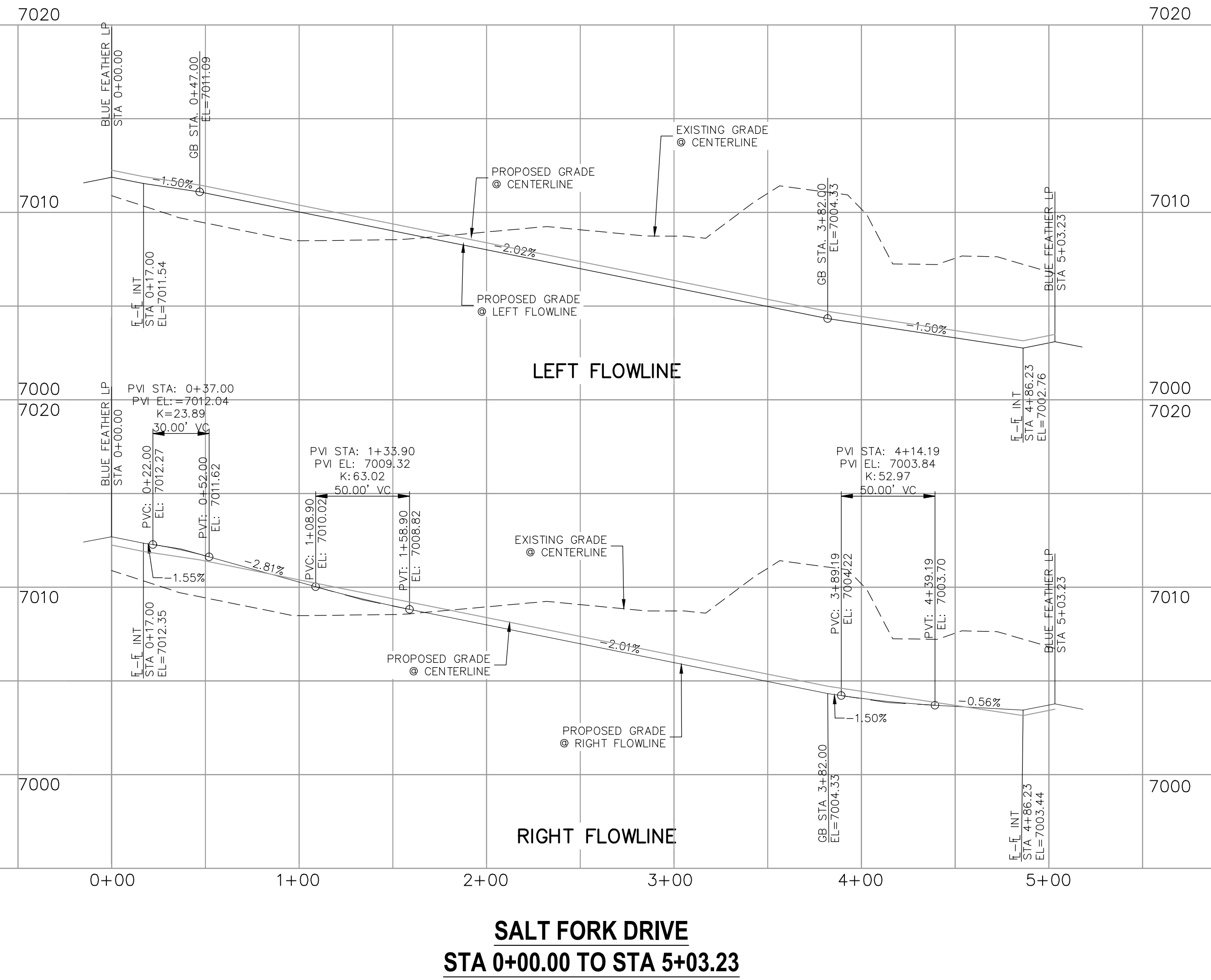
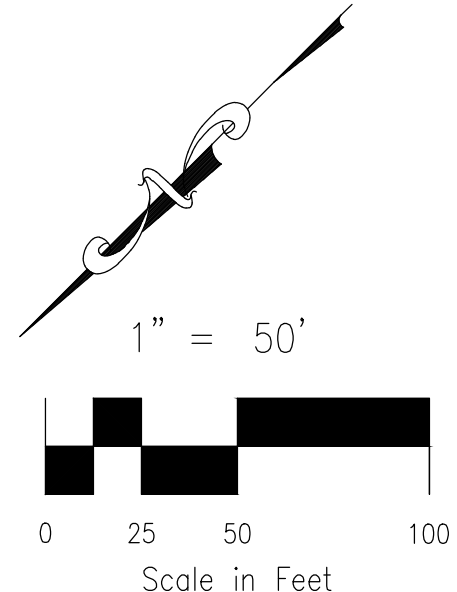
CAUTION

EPC 10/10/2023



CENTERLINE LINE TABLE		
LINE	LENGTH	DIRECTION
L1	503.23	S40° 10' 49.19"W

PCR CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
CC1	31.42	20.00	90.00
CC2	31.42	20.00	90.00
CC3	31.42	20.00	90.00
CC4	31.42	20.00	90.00



- NOTES:**
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**COPPER CHASE AT STERLING RANCH**  
**STREET IMPROVEMENT PLANS**

PROJECT NO. 09-014 DATE: 08/05/2023  
 SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
 DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

212 N. WABATCH AVE, STE 305  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.955.5465

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF  
 CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER  
 VIRGIL A. SANCHEZ, P.E. NO. 37160  
 08-15-23

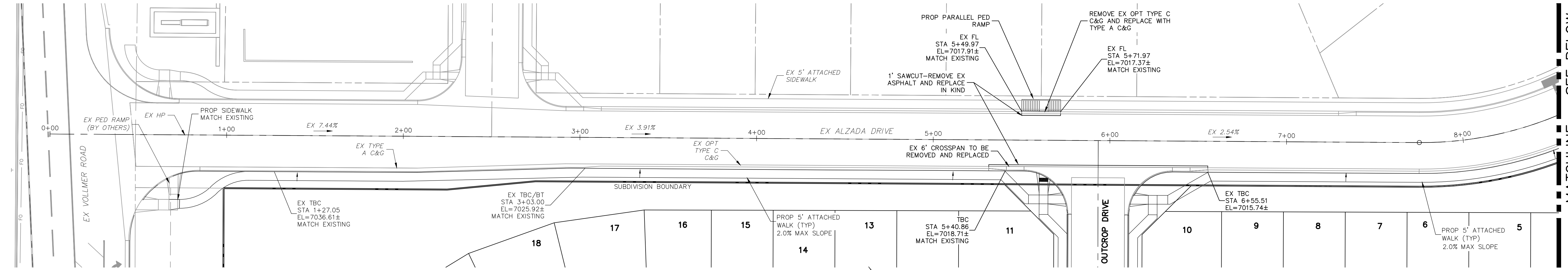
NO.	DATE	BY	DESCRIPTION

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CAUTION

EPC 10/10/2023

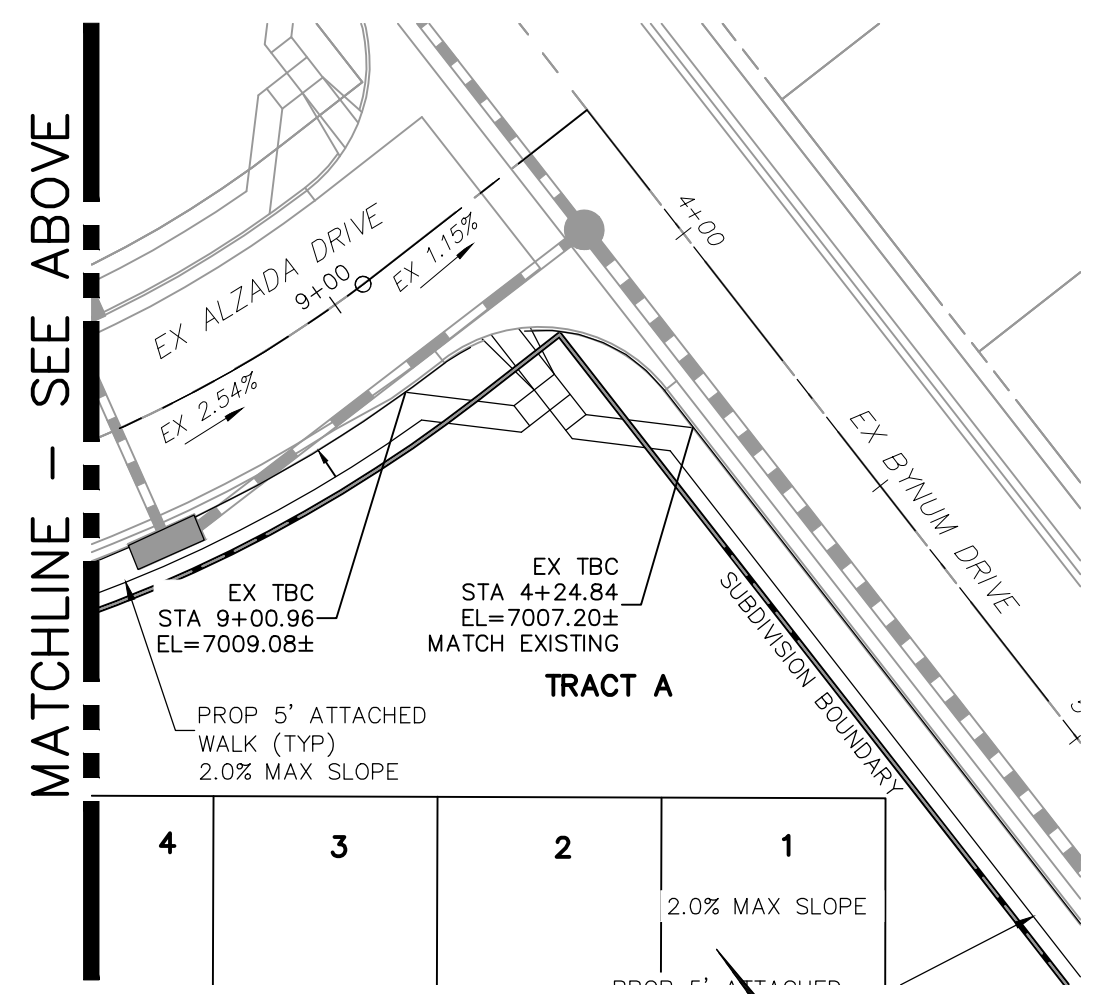




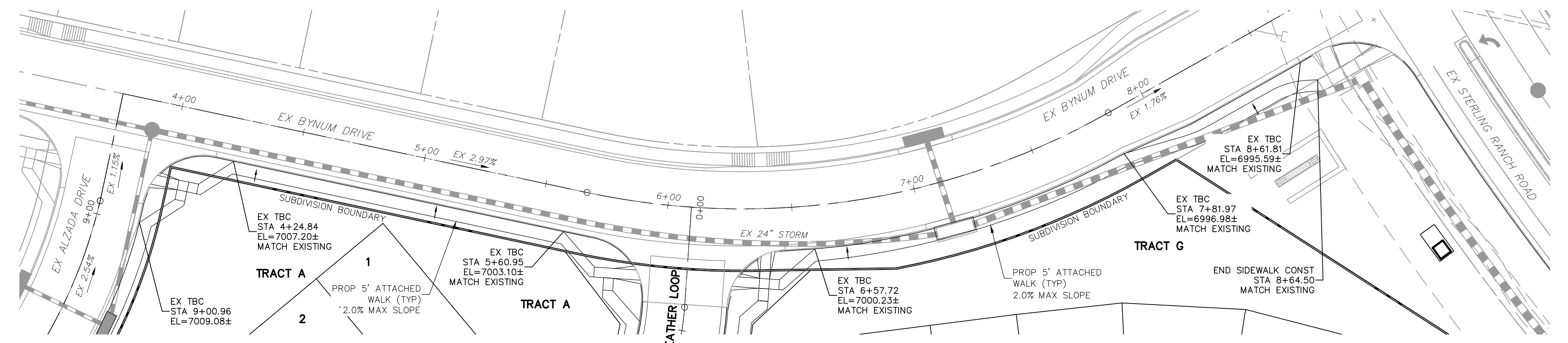
**EX ALZADA DRIVE**

**NOTE:**

- EXISTING ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY AND MEET ALL ADA REQUIREMENTS.
- FOR EXISTING ALZADA DR AND BYNUM DR SEE STREET PLANS BY JR ENGINEERING DATED 11/18/2021



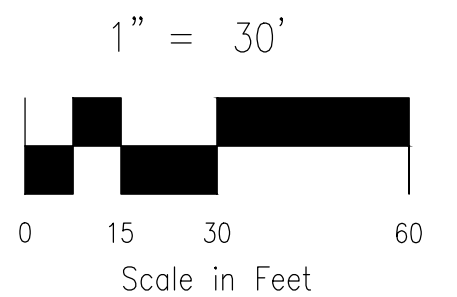
**EX ALZADA DRIVE**



**EX BYNUM DRIVE**

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

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



**COPPER CHASE AT STERLING RANCH**

**SIDEWALK PLAN - EX ALZADA AND BYNUM DR.**

PROJECT NO. 09-014 DATE: 08/05/2023

SCALE: HORIZONTAL: 1"=30' VERTICAL: N/A

DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

212 N. WABATCH AVE, STE 305  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.555.5465

**CIVIL CONSULTANTS, INC.**

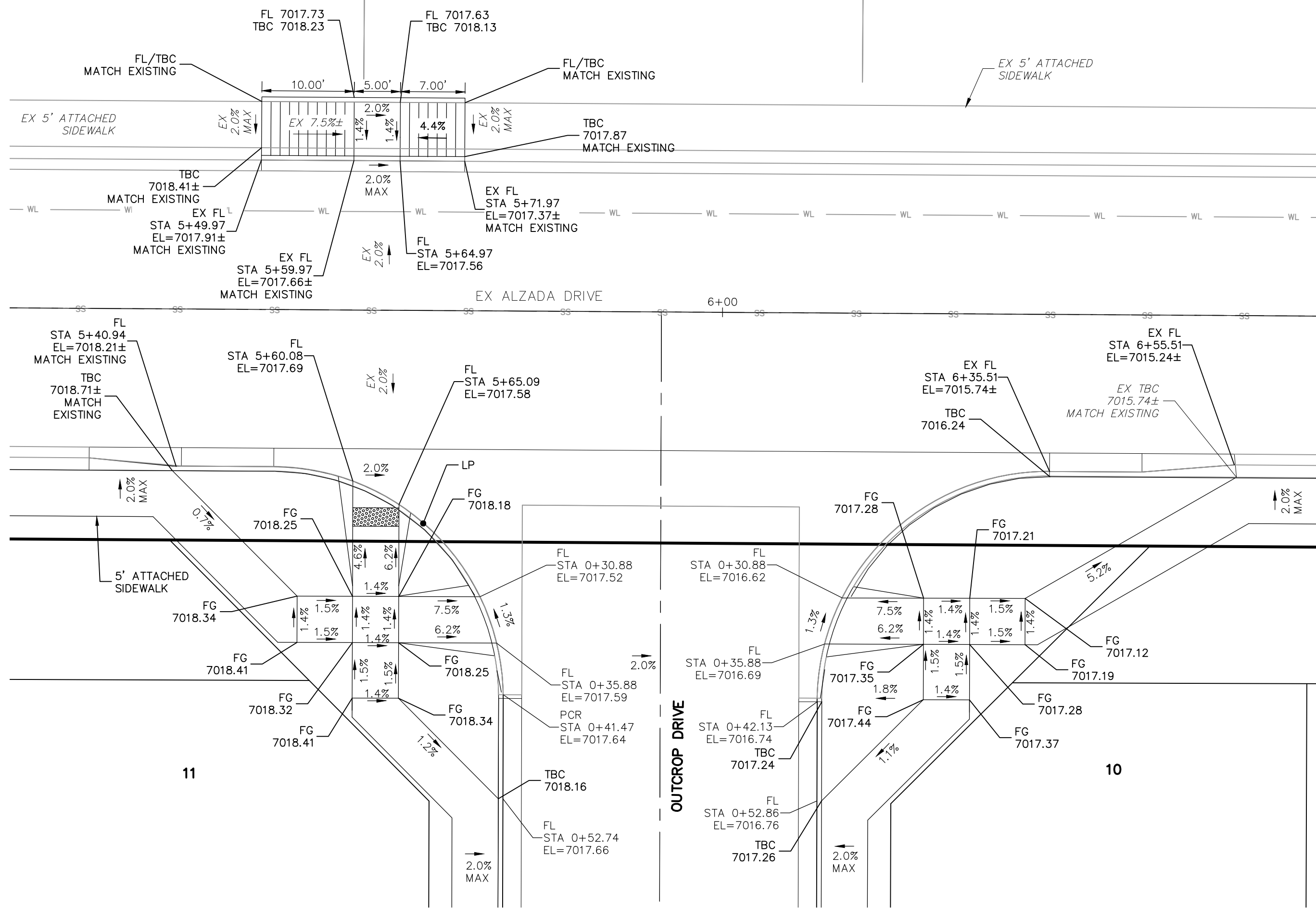
FOR AND ON BEHALF OF CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF CIVIL CONSULTANTS, INC.

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

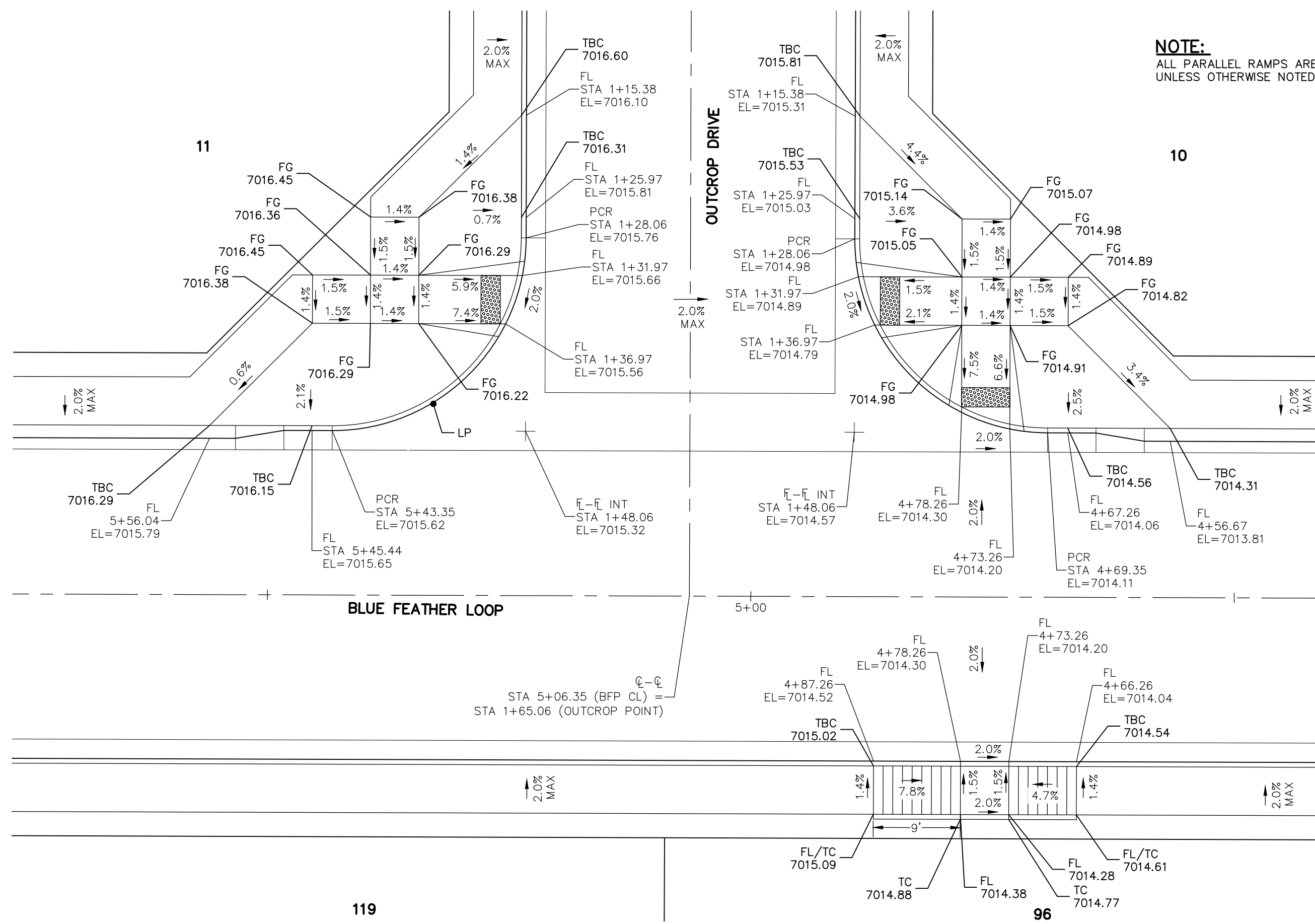
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CAUTION

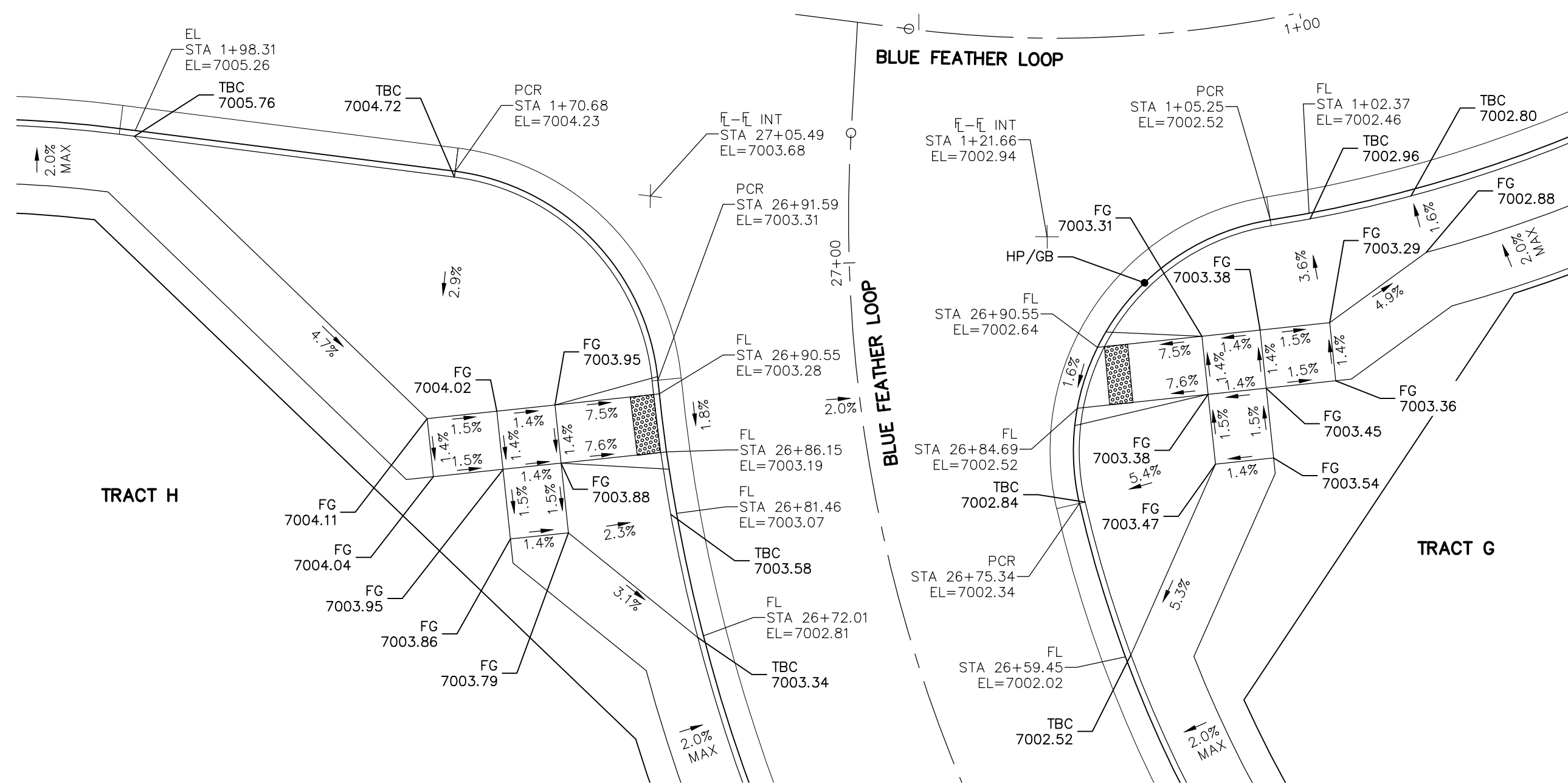


**OUTCROP DRIVE & EX ALZADA DRIVE**

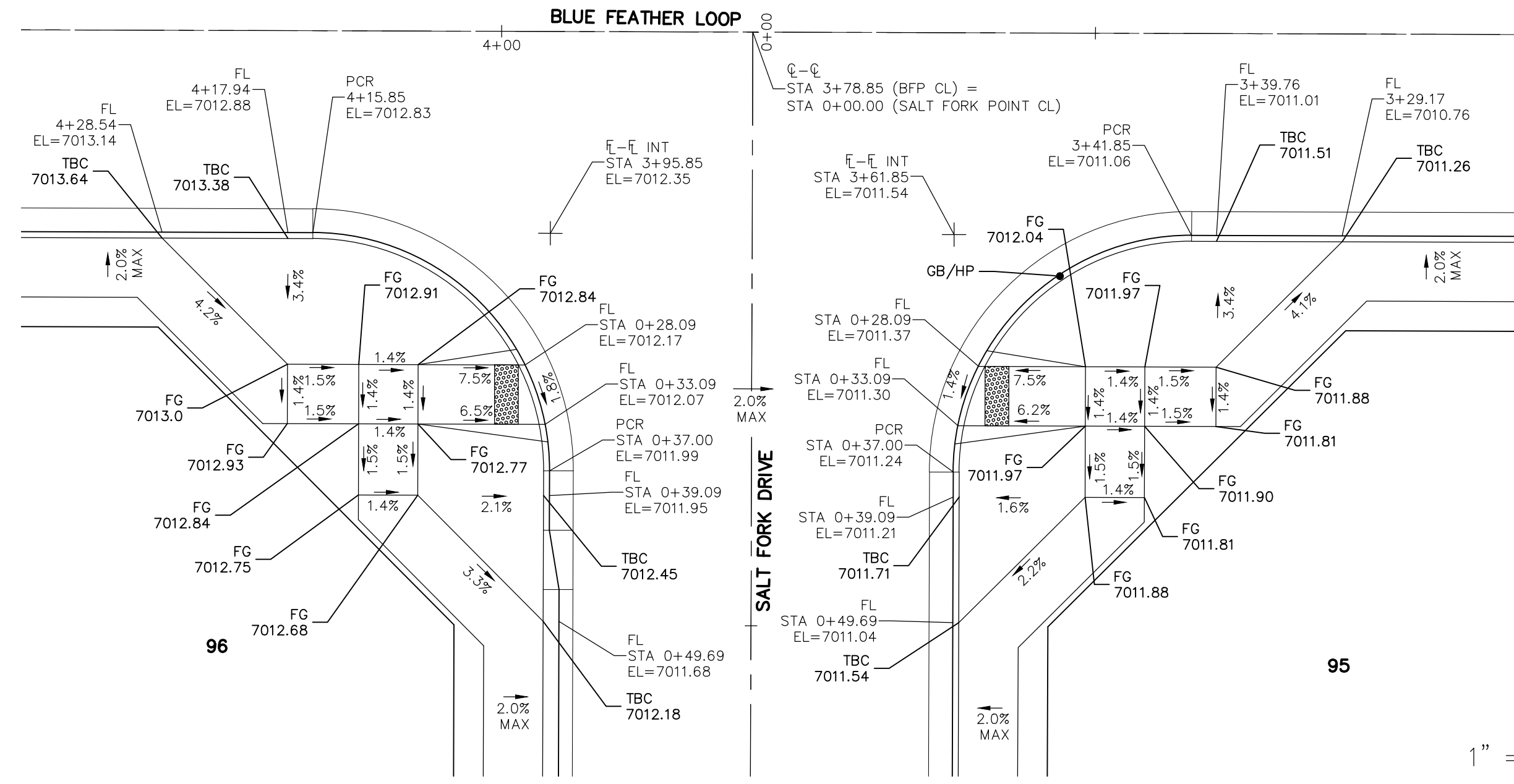
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CONTRACTOR TO VERIFY AND MEET ALL  
ADA REQUIREMENTS.



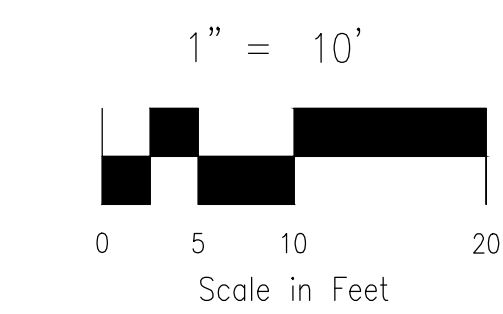
**OUTCROP DRIVE & BLUE FEATHER LOOP**



**BLUE FEATHER LOOP  
STA 26+84.00**



**SALT FORK DRIVE (STA 0+28.09) &  
BLUE FEATHER LOOP**



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

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

**NOTE:**  
ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE NOTED

<b>COPPER CHASE AT STERLING RANCH</b>	
<b>INTERSECTION DETAILS</b>	
PROJECT NO. 09-014	DATE: 08/05/2023
DESIGNED BY: CW	HORIZONTAL: 1"=10'
DRAWN BY: TAU	VERTICAL: N/A
CHECKED BY: DLM	SHEET 10 OF 16
	<b>S110</b>

212 N. WABATCH AVE. STE 305  
COLORADO SPRINGS CO 80903  
PHONE: 719.555.5465

**CIVIL CONSULTANTS, INC.**

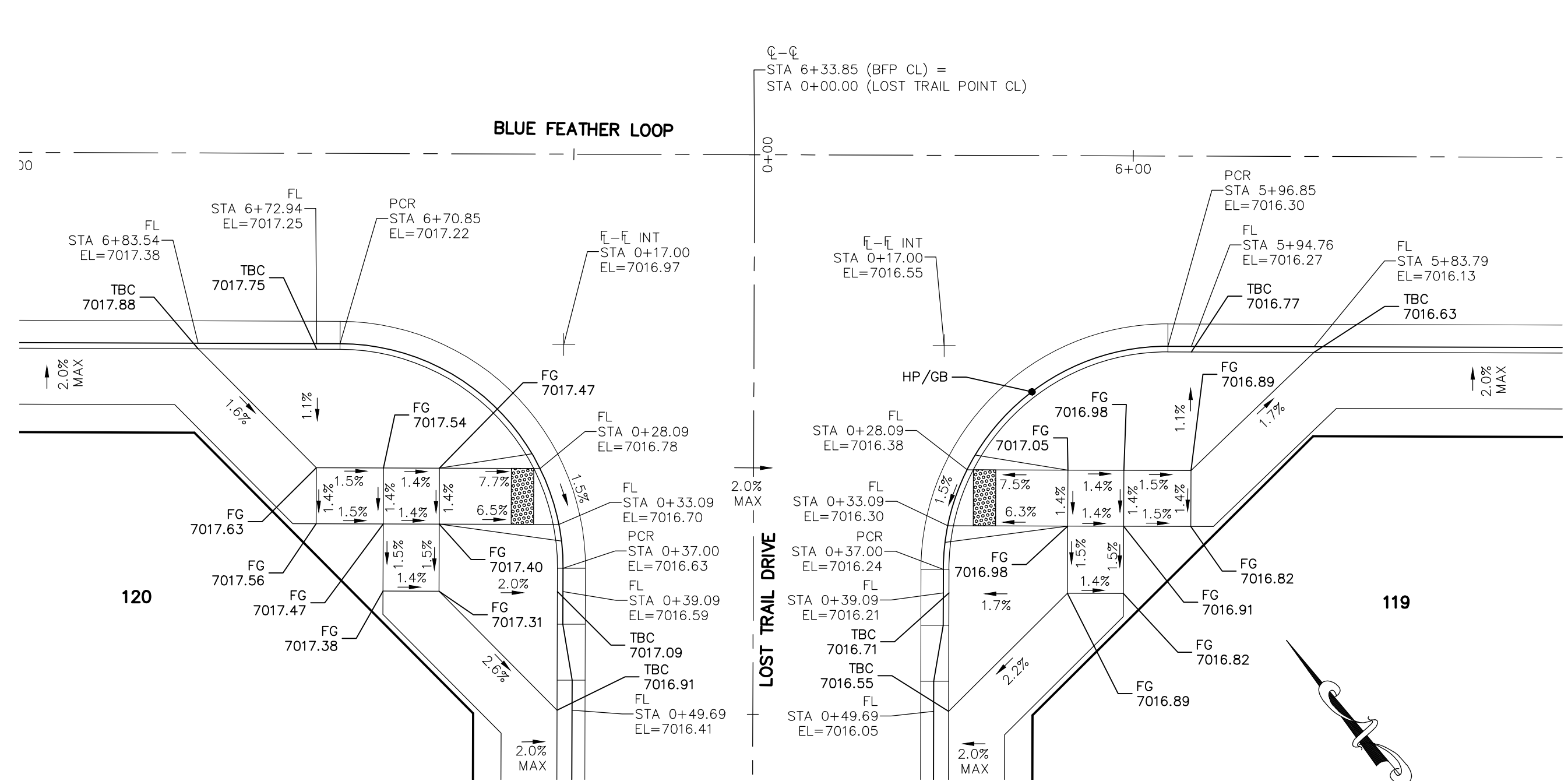
FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

**PROFESSIONAL ENGINEER**  
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160  
08-15-23

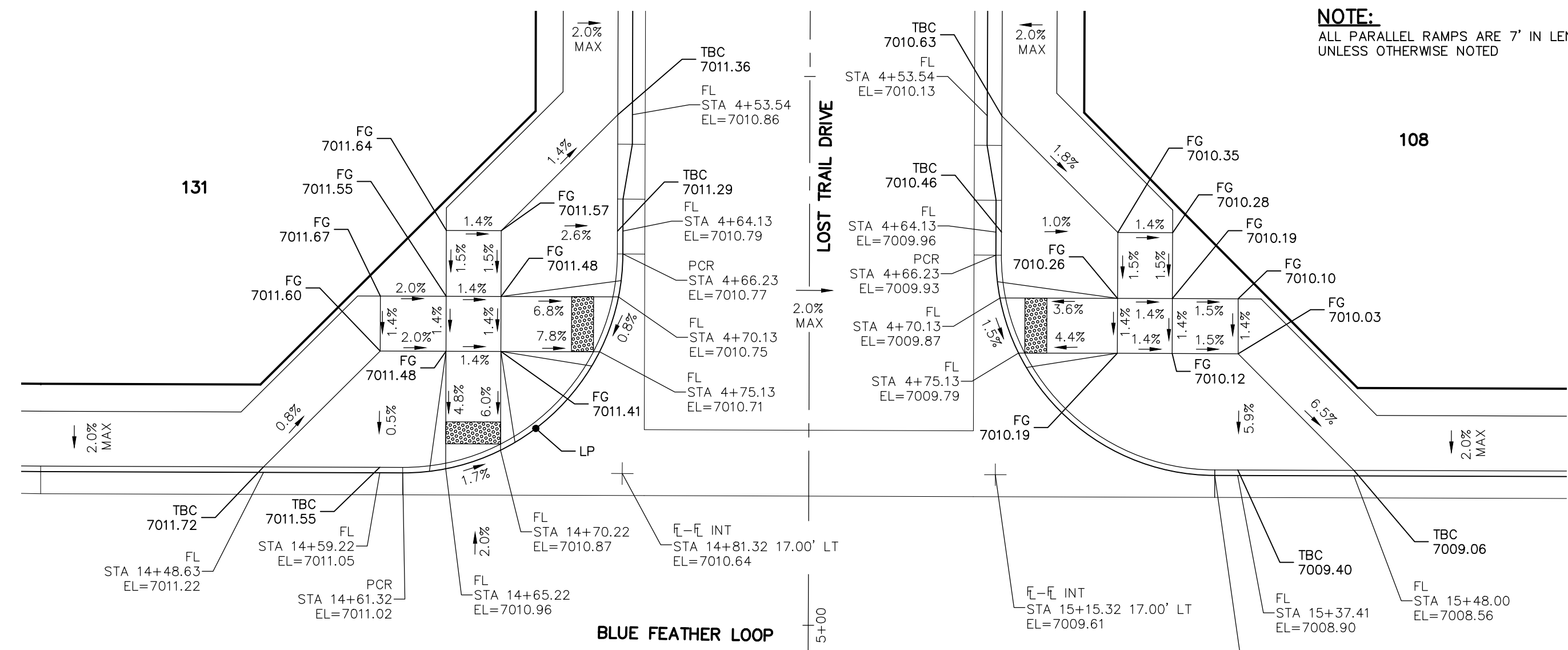
REVISIONS:	NO.	DATE:	BY:	DESCRIPTION:

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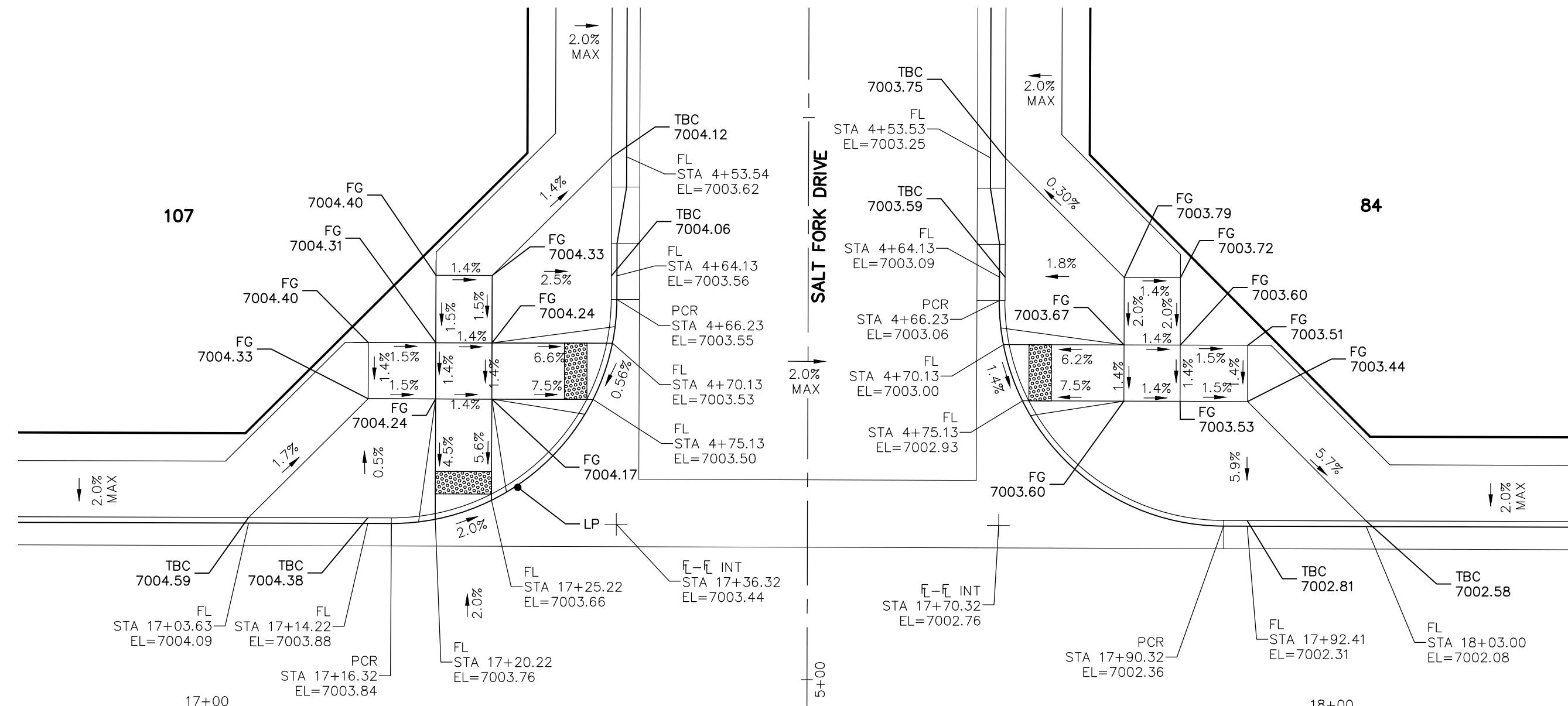
**CAUTION**



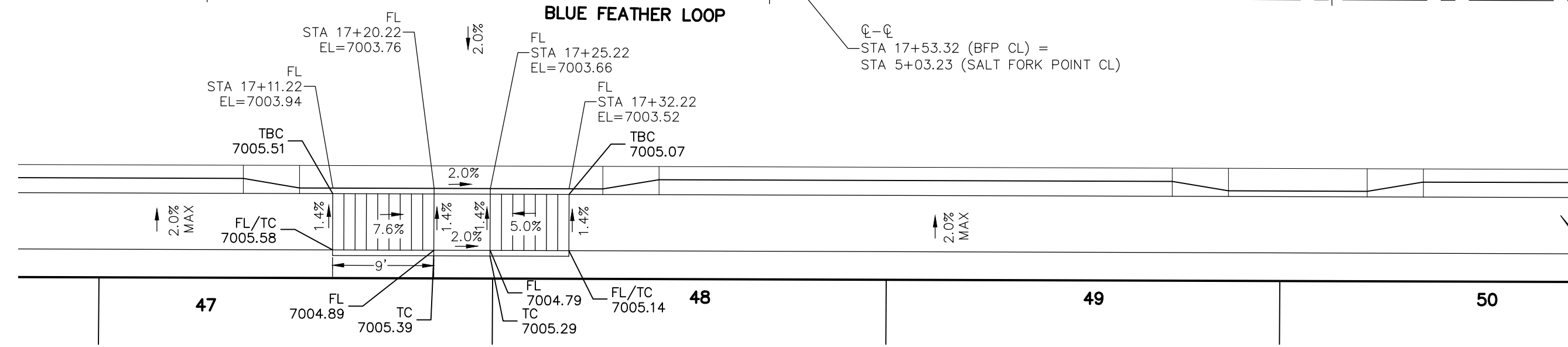
**BLUE FEATHER LOOP & LOST TRAIL DRIVE (STA 0+28.09)**



**LOST TRAIL DRIVE (STA 14+98.32) & BLUE FEATHER LOOP**

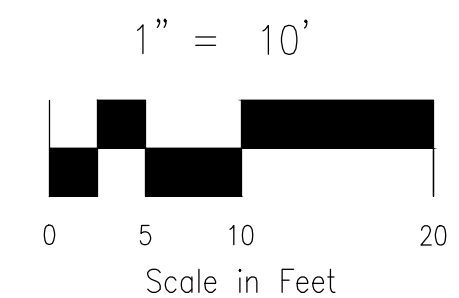


**SALT FORK DRIVE (STA 17+36.32) & BLUE FEATHER LOOP**



**SALT FORK DRIVE (STA 4+75.13) & BLUE FEATHER LOOP**

**NOTE:**  
ALL PARALLEL RAMPS ARE 7' IN LENGTH UNLESS OTHERWISE NOTED



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

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

**COPPER CHASE AT STERLING RANCH**

**INTERSECTION DETAILS**

PROJECT NO. 09-014 DATE: 08/05/2023

SCALE: HORIZONTAL: 1"=10' VERTICAL: N/A

DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

210 N. WASHCATCH AVE, STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.955.5465

**CIVIL CONSULTANTS, INC.**

FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

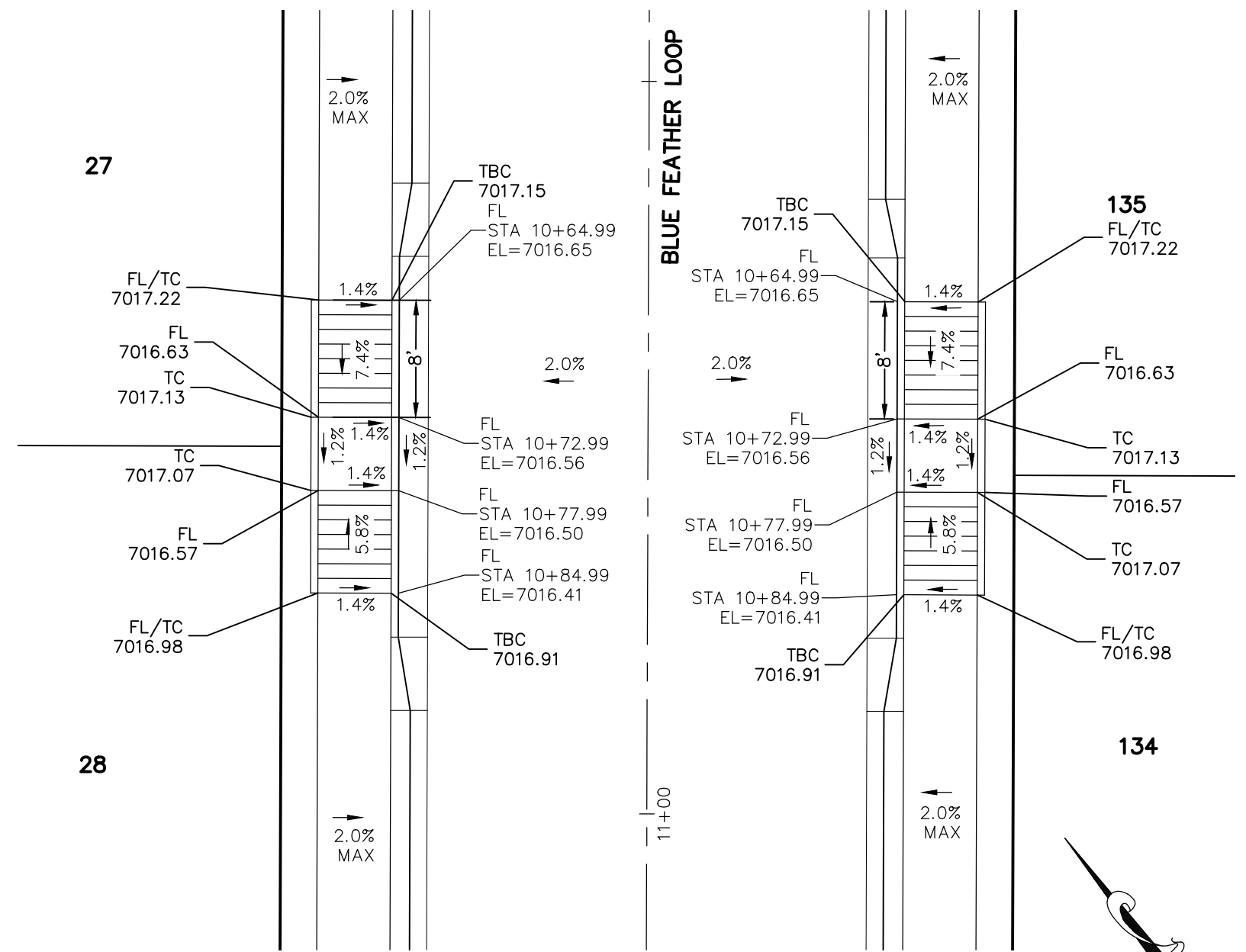
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION

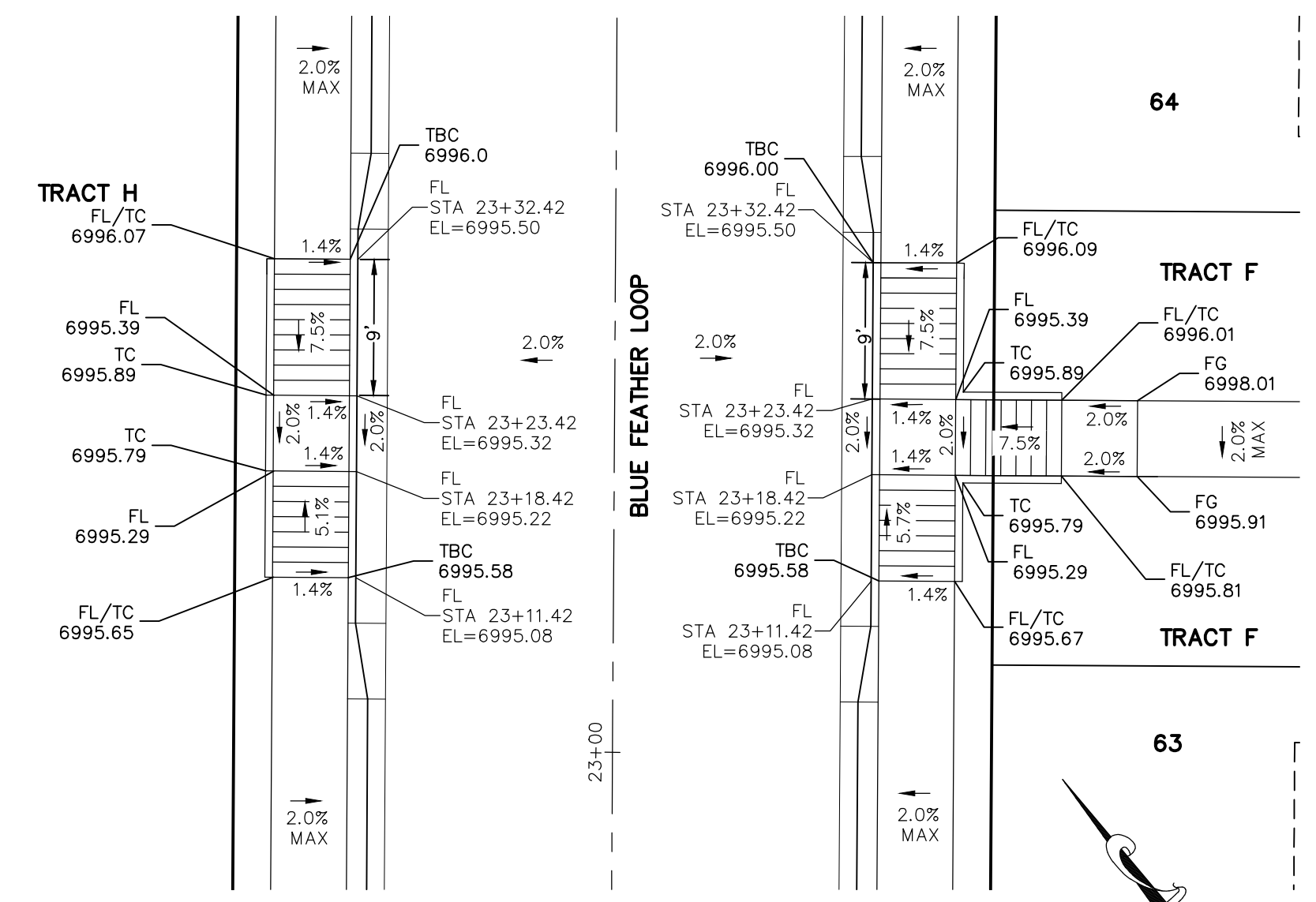
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CAUTION

EPC 10/10/2023

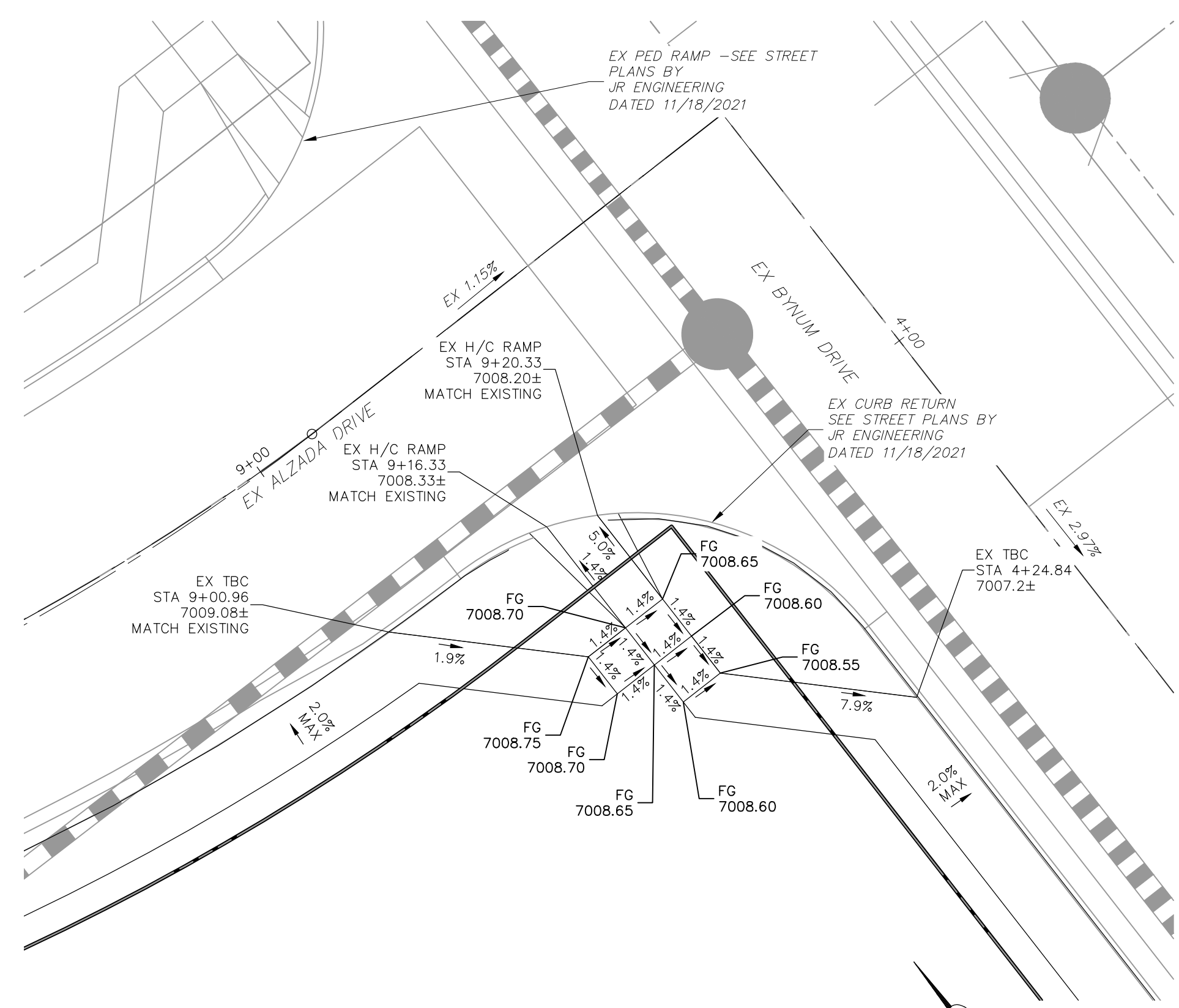


**BLUE FEATHER LOOP (STA 10+64.99)**

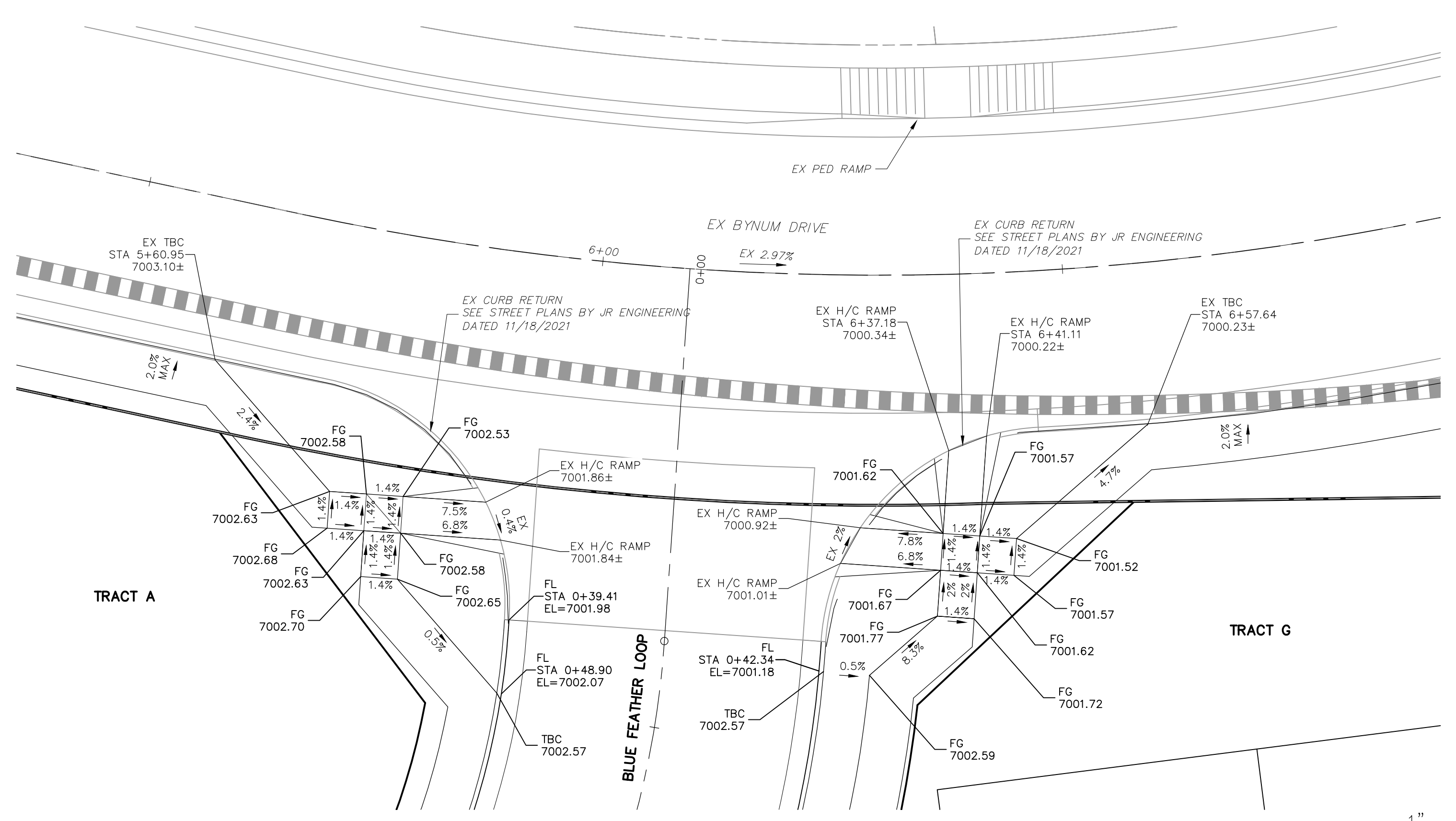


**BLUE FEATHER LOOP (STA 23+11.42)**

**NOTE:**  
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UNLESS OTHERWISE NOTED



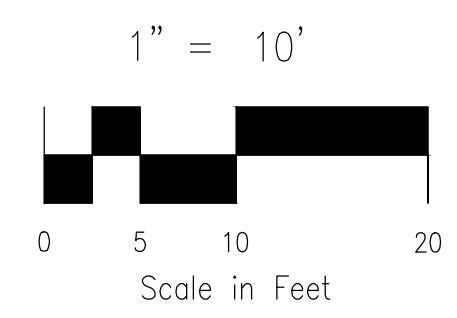
**EX ALZADA AND BYNUM DRIVE (STA 9+00.96)**



**EX BYNUM DRIVE AND BLUE FEATHER LOOP (STA 5+60.95)**

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

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**COPPER CHASE AT STERLING RANCH**

**INTERSECTION DETAILS**

PROJECT NO. 09-014    SCALE: HORIZONTAL: 1"=10'    VERTICAL: N/A    DATE: 08/05/2023

DESIGNED BY: CWV    CHECKED BY: DLM

DRAWN BY: TAU    SHEET 12 OF 16

S112

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212 N. WABATCH AVE., STE. 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.555.5465

**CIVIL CONSULTANTS, INC.**

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FOR AND ON BEHALF OF  
CIVIL CONSULTANTS, INC.

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

---

NO.	DATE	BY	DESCRIPTION

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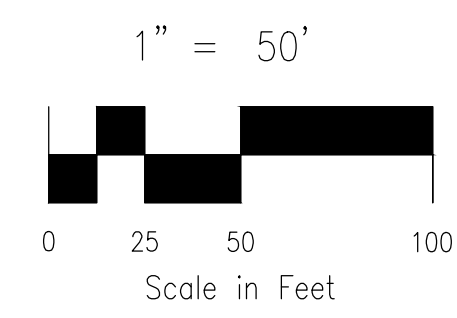
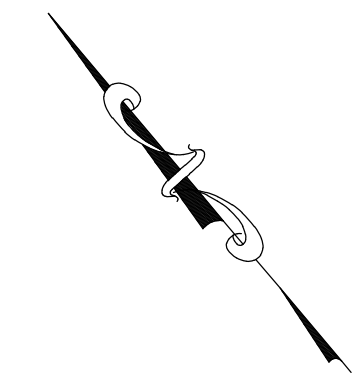
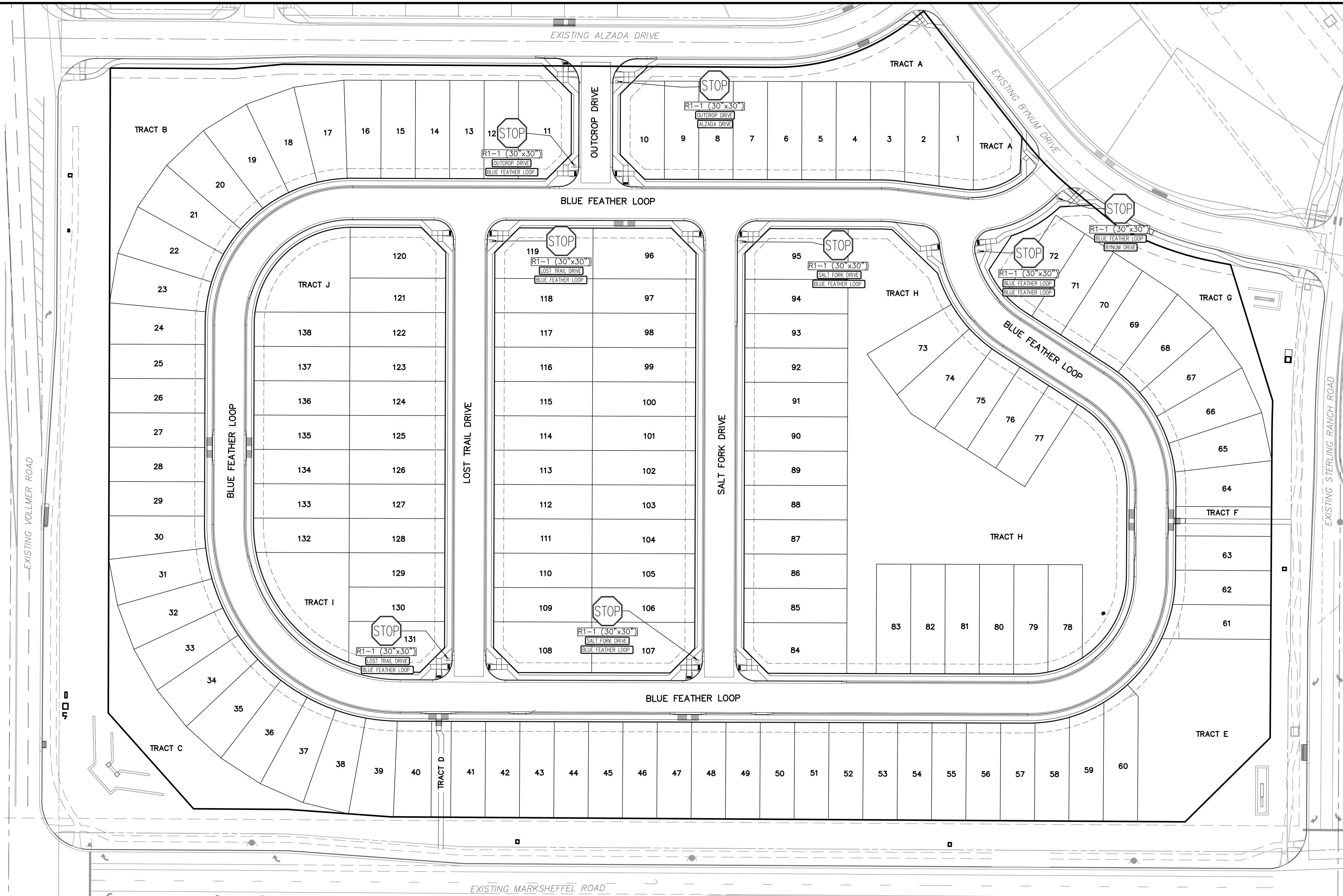
CAUTION

EPC 10/10/2023

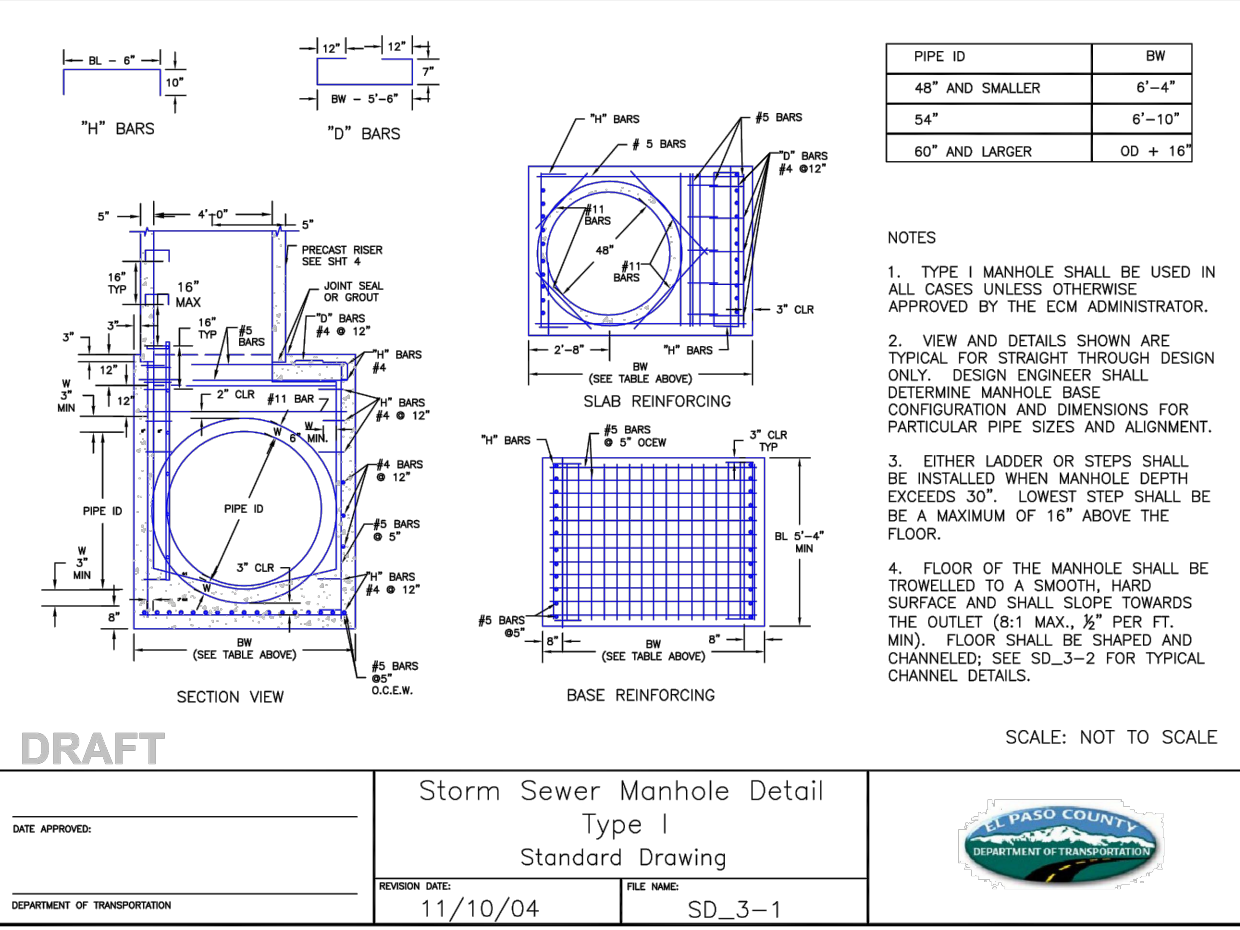


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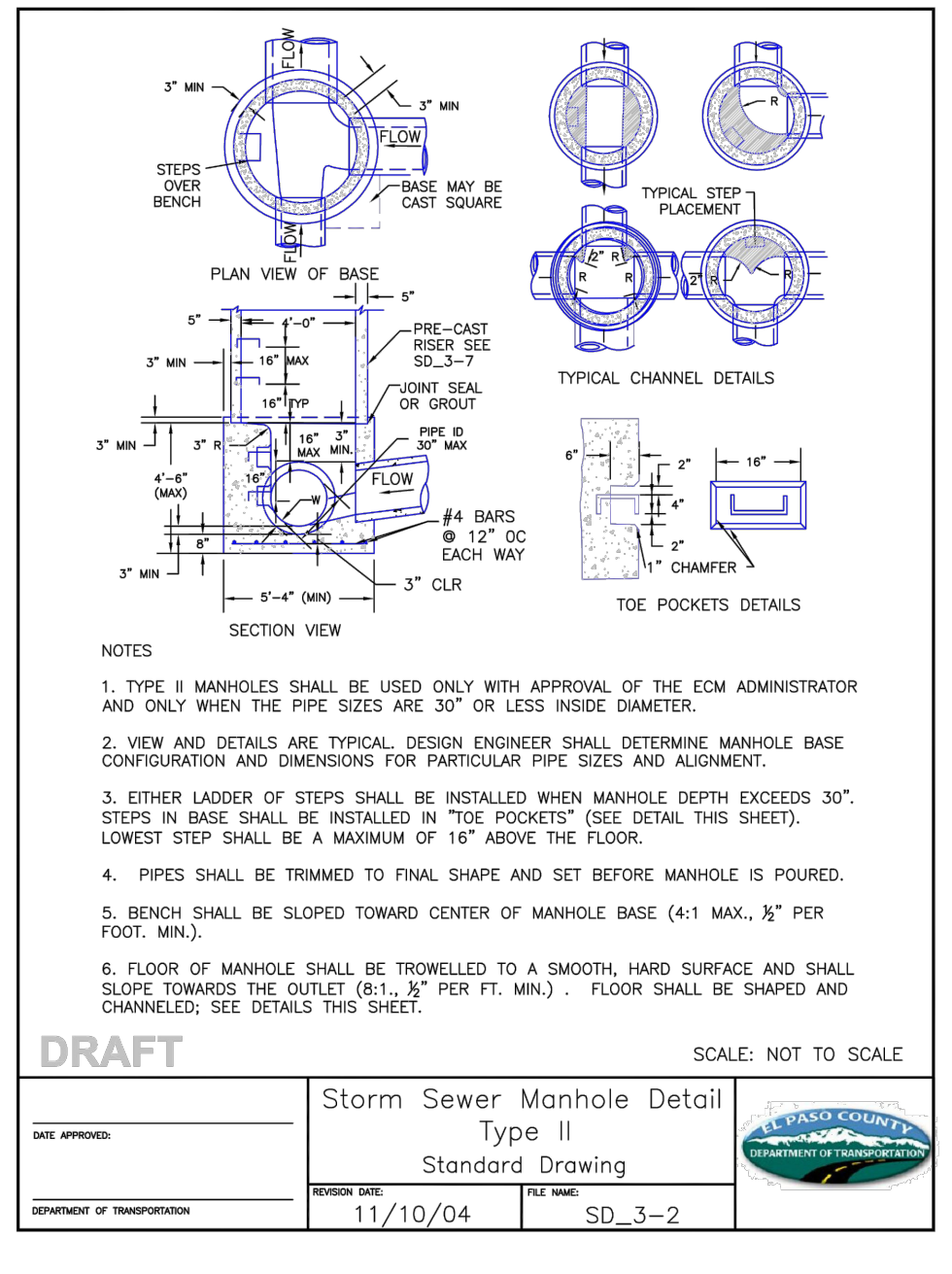
FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987



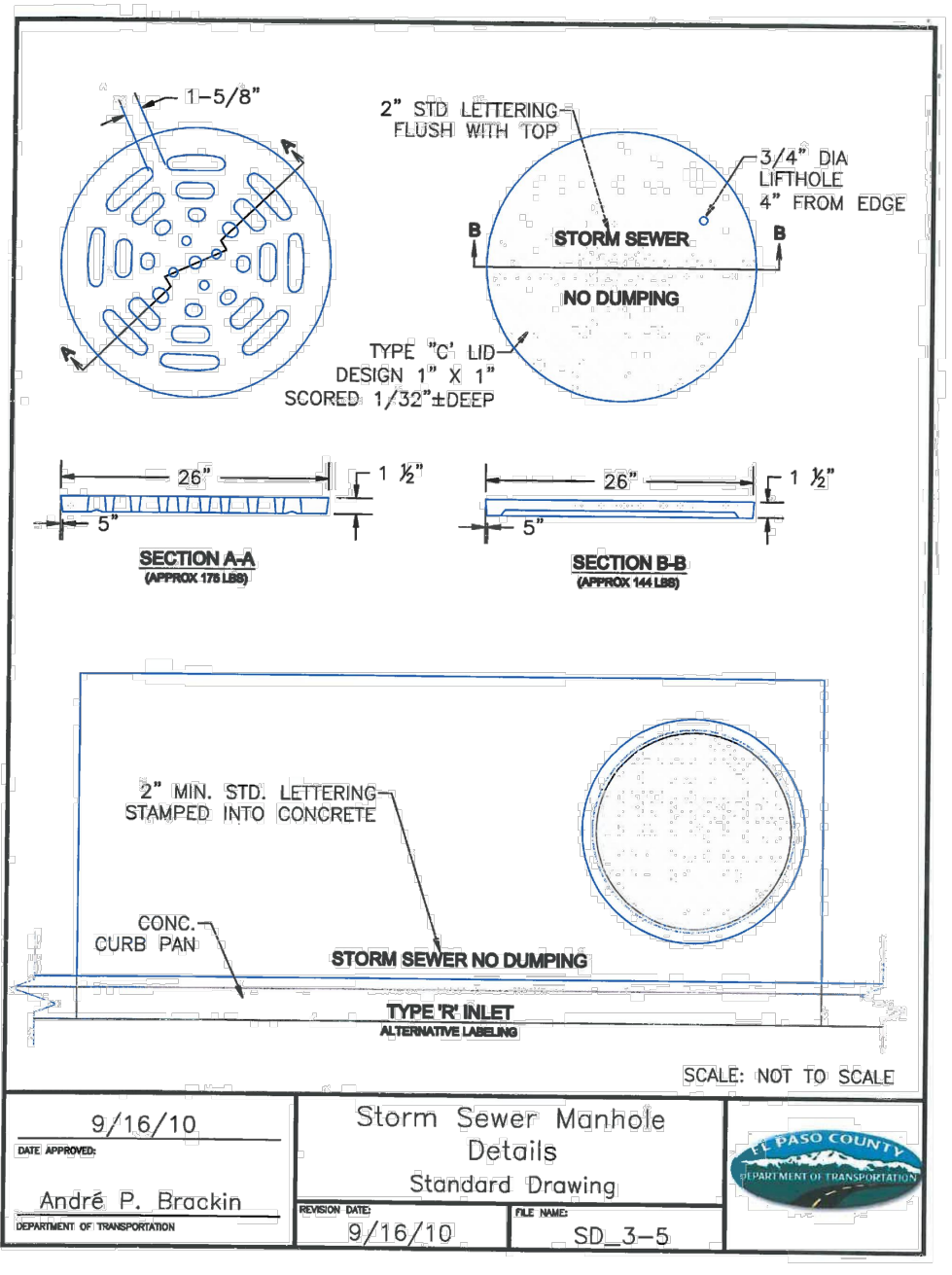
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160 FOR AND ON BEHALF OF  WKS CIVIL CONSULTANTS, INC.		PROJECT NO. 09-014 DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM	DATE: 08/05/2023 SHEET 13 OF 16 <b>S113</b>
COPPER CHASE AT STERLING RANCH <b>SIGNAGE AND STRIPING PLAN</b>		SCALE: HORIZONTAL: 1"=50' VERTICAL: N/A	
212 N. WABATCH AVE., STE 305 COLORADO SPRINGS, CO 80903 PHONE: 719.955.5465			
REVISIONS: NO. DATE BY DESCRIPTION APPROVED BY DATE _____ _____ _____ _____			
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CAUTION			



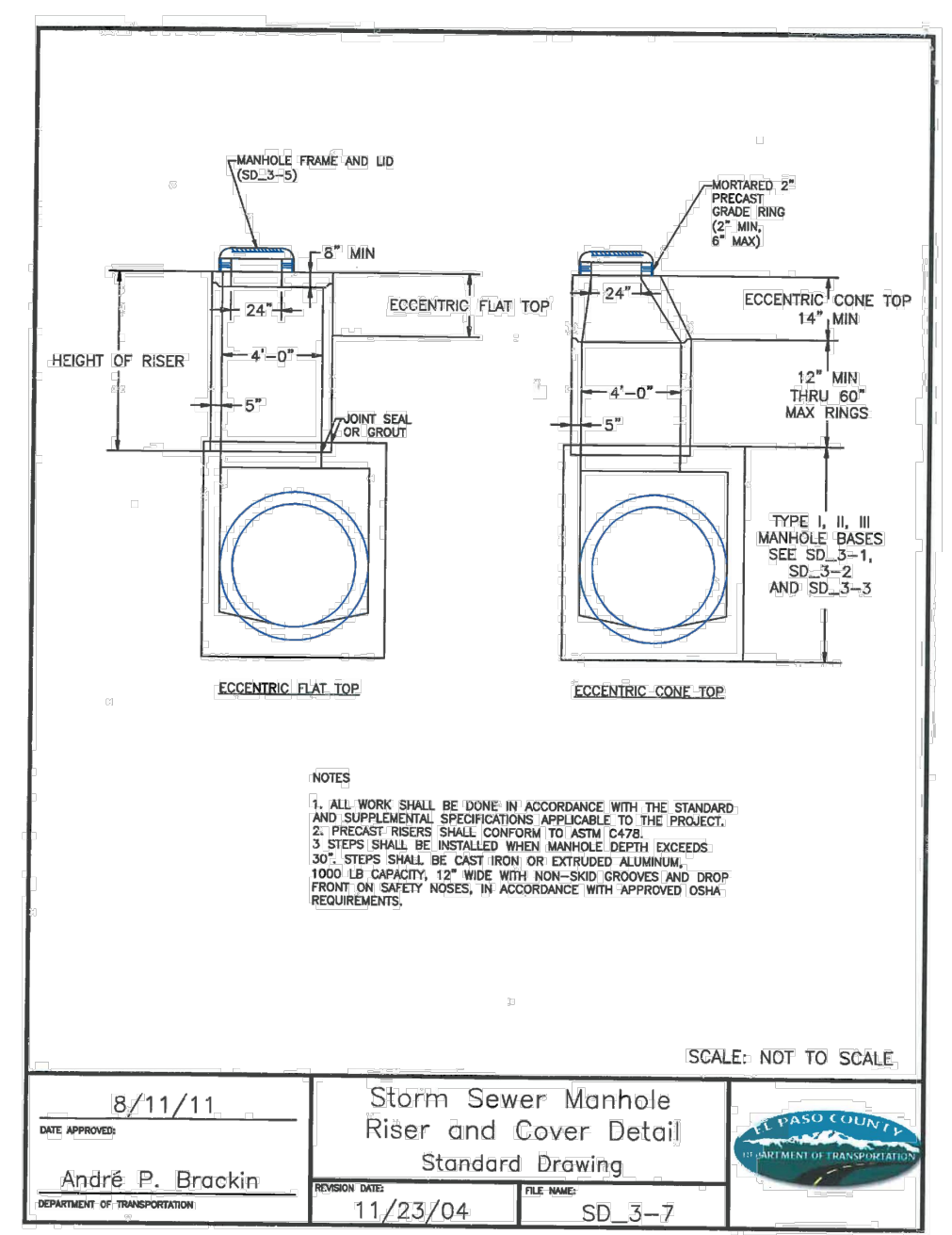
STORM SEWER MANHOLE DETAIL  
TYPE I SD 3-1



STORM SEWER MANHOLE DETAIL  
TYPE II SD 3-2



STORM SEWER MANHOLE  
LID DETAILS SD 3-5

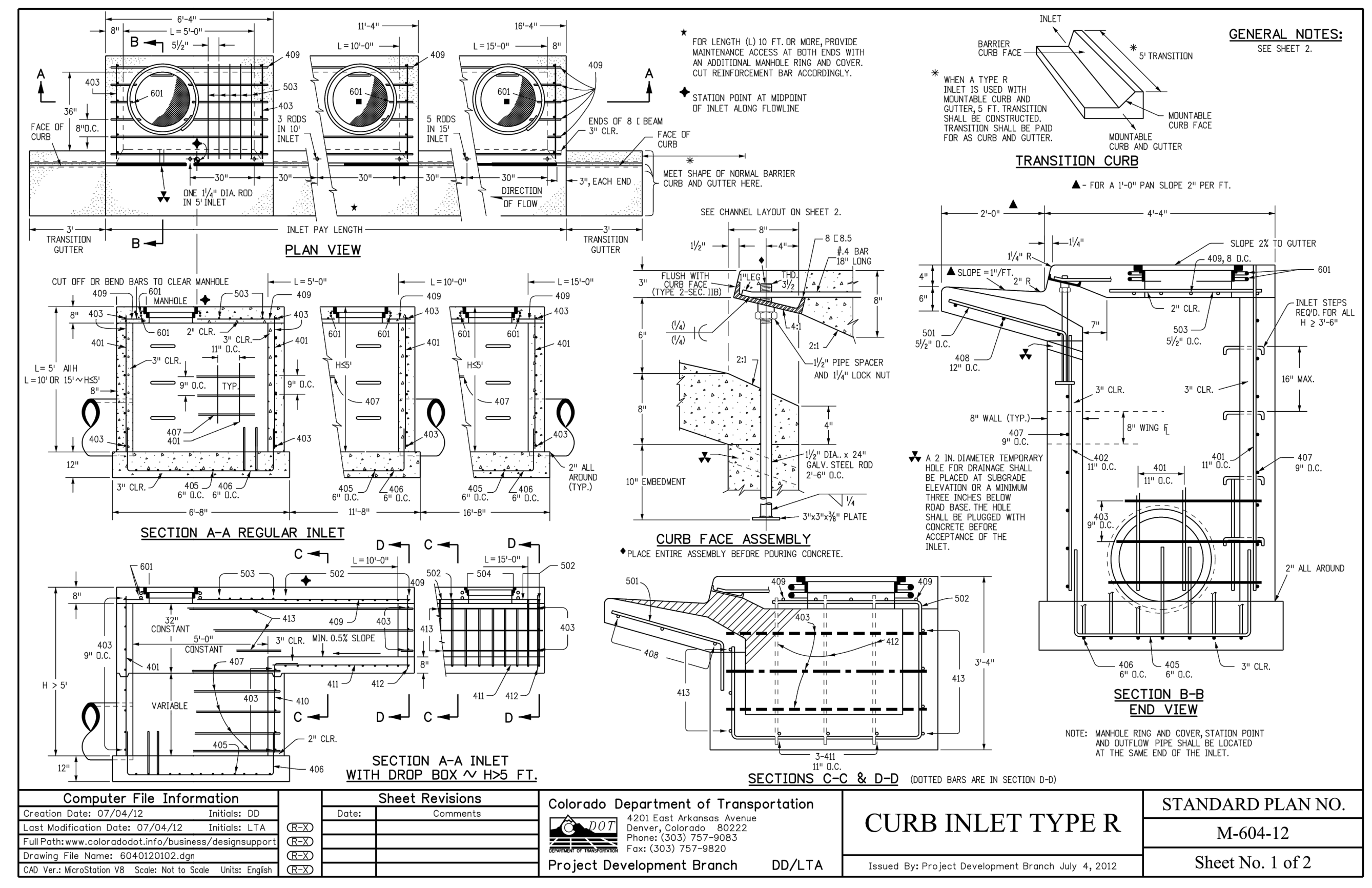


STORM SEWER MANHOLE  
RISER AND COVER DETAIL  
SD 3-7

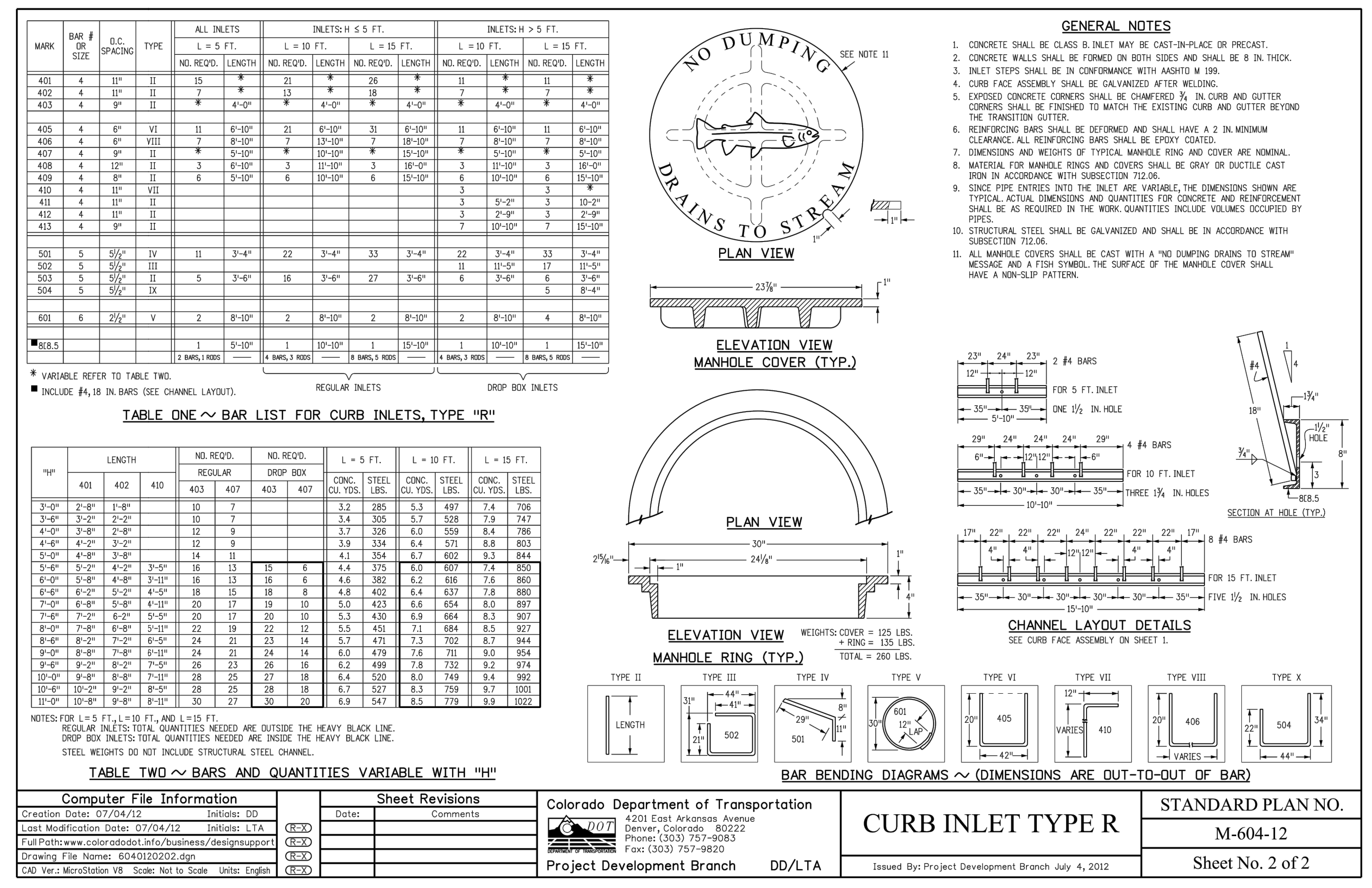
**Rinker Materials-Denver Pipe Plant  
Curved Alignment Guide - Gasketed RCP**

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

RINKER MATERIALS - DENVER PIPE  
PLANT CURVED ALIGNMENT GUIDE  
-GASKET RCP



CDOT CURB INLET TYPE R DETAIL  
STD. NO. M-604-12 SHEET 1



CDOT CURB INLET TYPE R DETAIL  
STD. NO. M-604-12 SHEET 2



File: C:\Users\epicere\Documents\090144\CHALLENGER\_PWD\DWG\CONSTR\DWG\STORM\ST01.dwg Plotstamp: 8/10/2023 11:23 AM

**COPPER CHASE AT STERLING RANCH  
STORM SEWER DETAILS**

PROJECT NO. 09-014 DATE: 08/05/2023  
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
DESIGNED BY: CWV  
DRAWN BY: TAU  
CHECKED BY: DLM

212 N. WAHATCH AVE., STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.555.5465

**CIVIL CONSULTANTS, INC.**

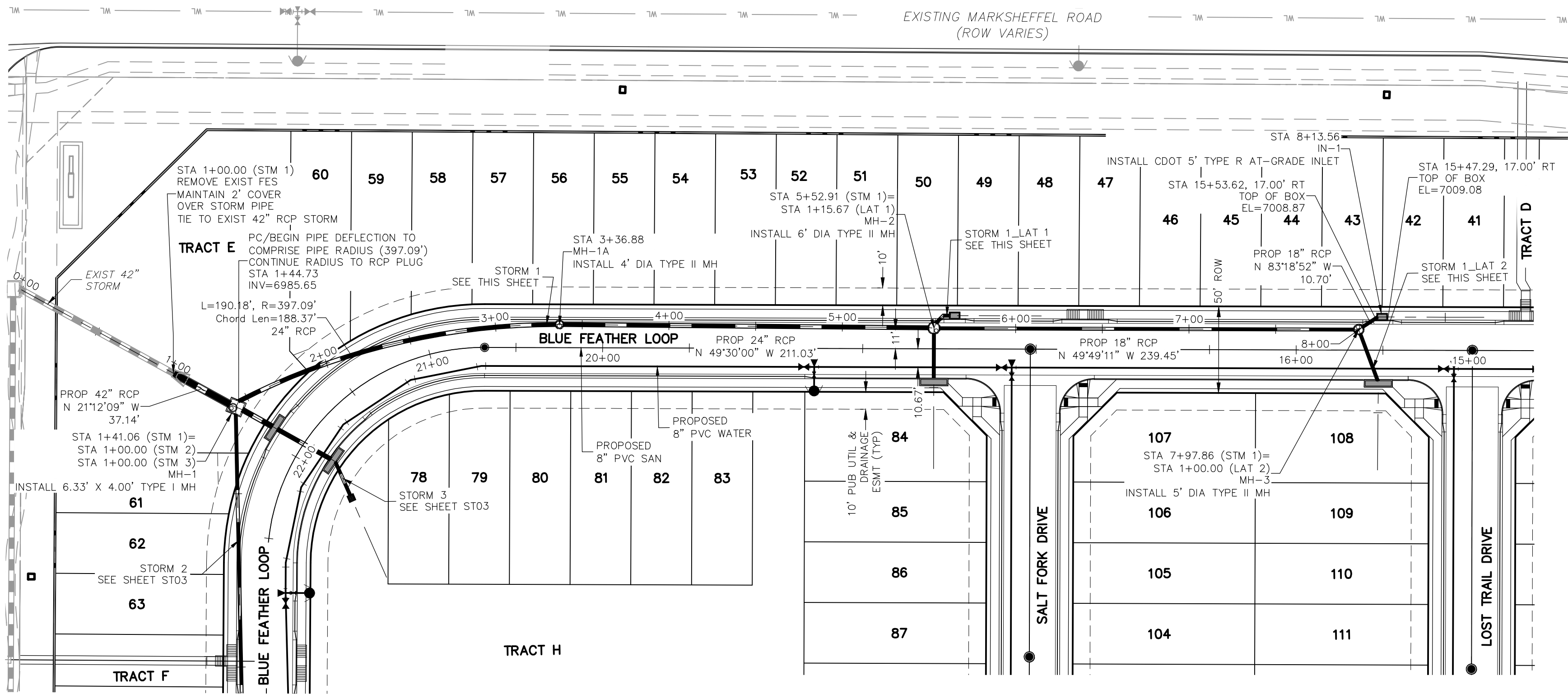
FOR AND ON BEHALF OF MKS CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER  
NO. 37160  
EXPIRES 08-15-23

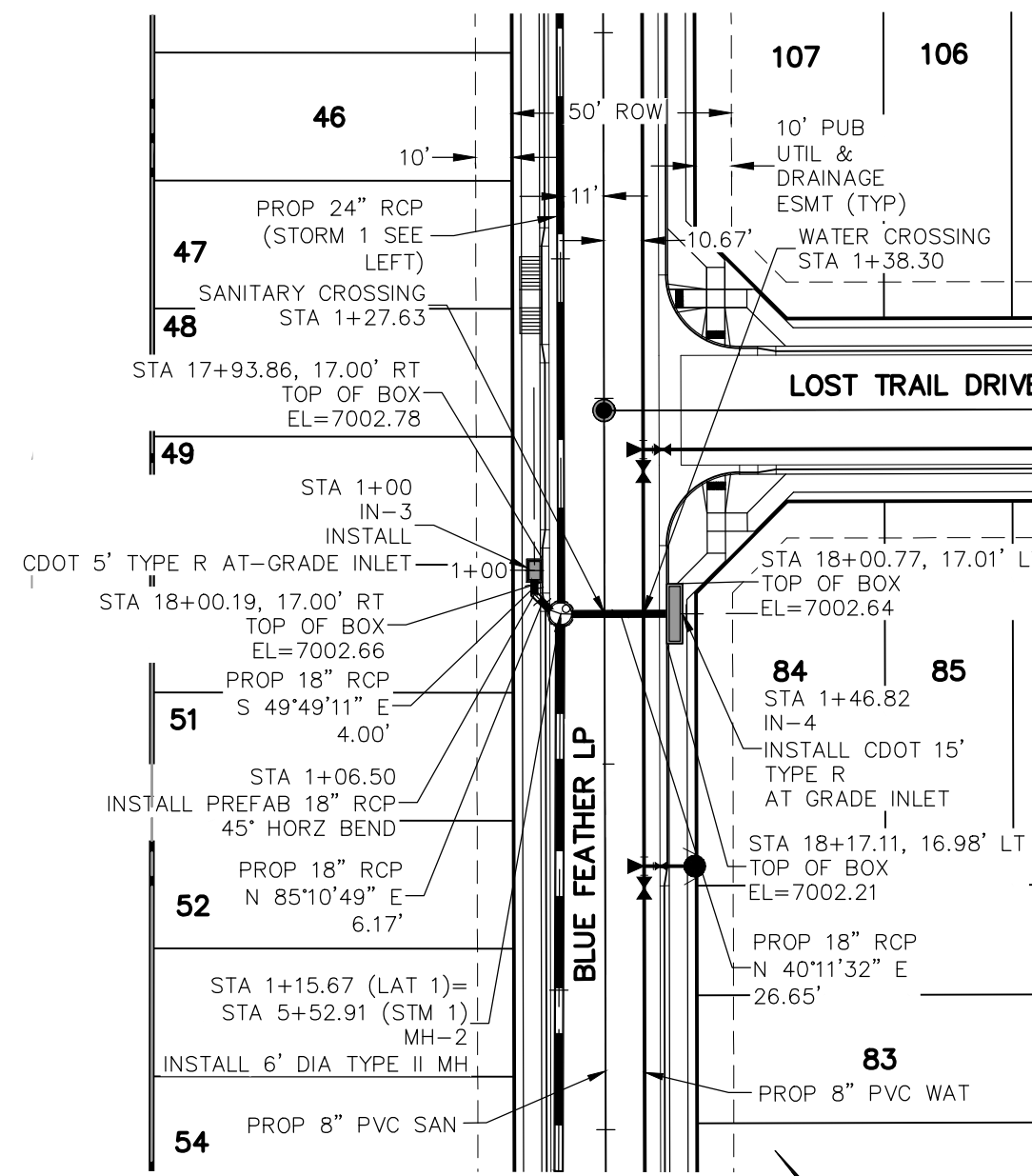
REVISIONS:  
NO. DATE BY DESCRIPTION

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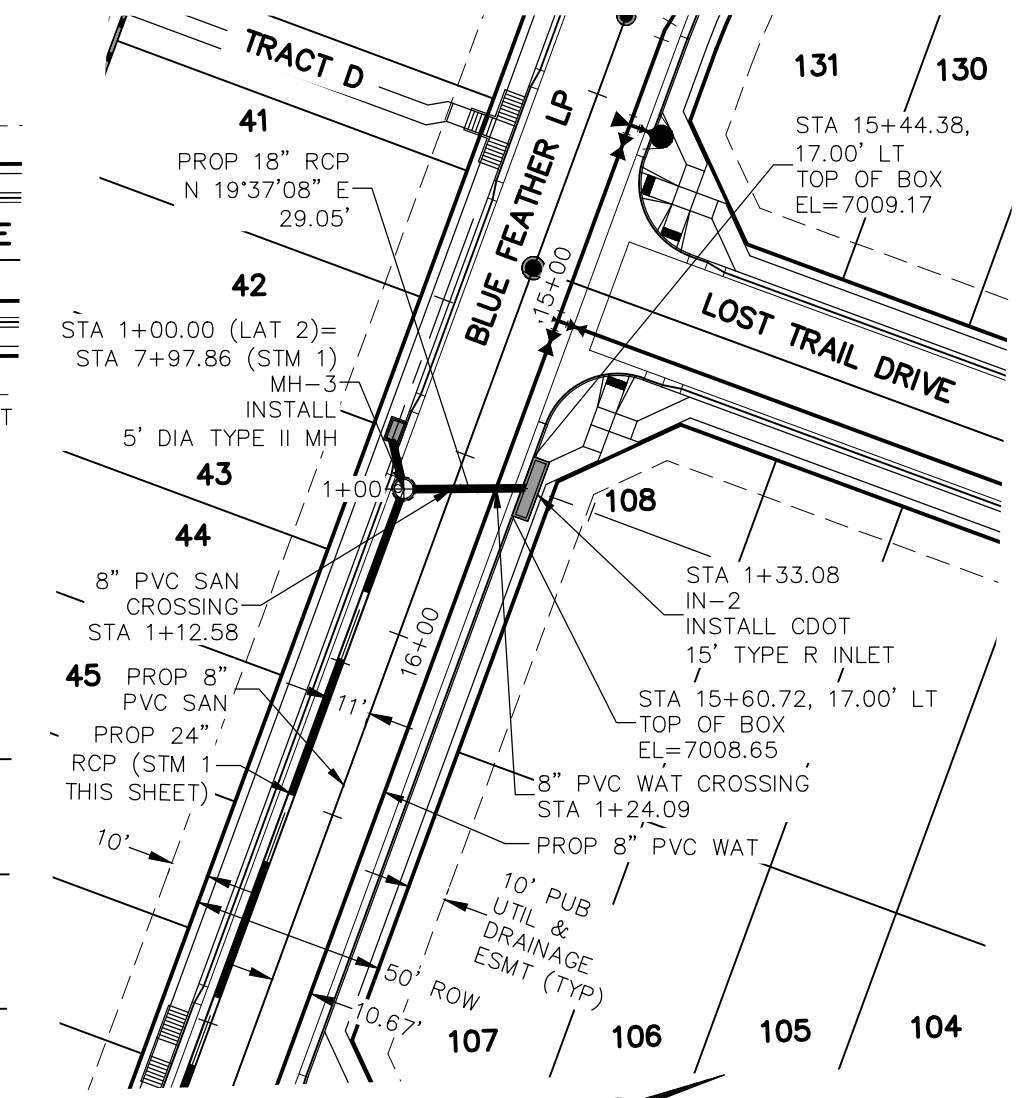
CAUTION



**STORM 1**  
STA 0+00.00 TO STA 8+13.56

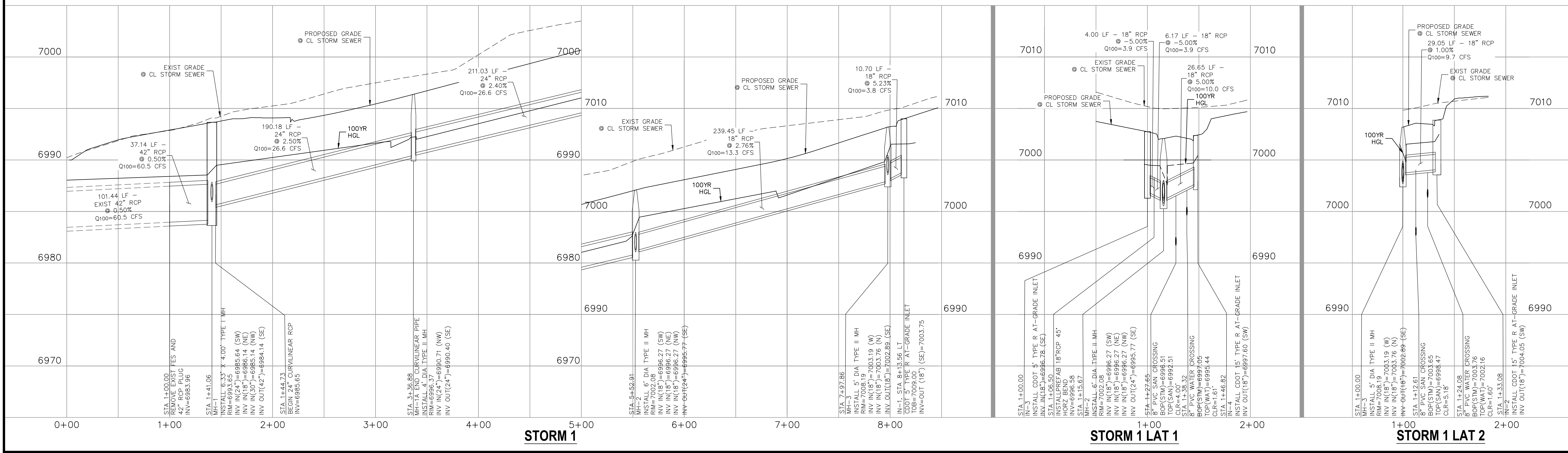
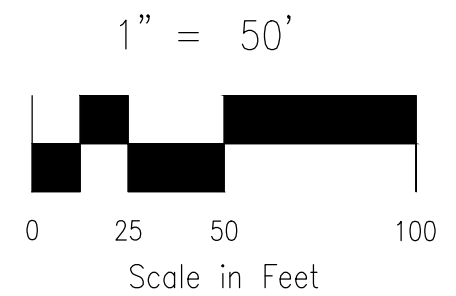


**STORM 1 LAT 1**  
STA 1+00.00 TO STA 1+46.82



**STORM 1 LAT 2**  
STA 1+00.00 TO STA 1+33.08

NOTE:  
TOP OF BOX INLET STATIONS  
REFERENCE CENTERLINE STATIONING



**STORM 1**

**STORM 1 LAT 1**

**STORM 1 LAT 2**

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**COPPER CHASE AT STERLING RANCH**  
**STORM SEWER PLAN & PROFILE**

PROJECT NO. 09-014 DATE: 08/05/2023  
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
DESIGNED BY: CWV  
DRAWN BY: TAU  
CHECKED BY: DLM

ST02  
SHEET 15 OF 16

212 N. WASHCATCH AVE, STE 305  
COLORADO SPRINGS, CO 80903  
PHONE: 719.555.5465

FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

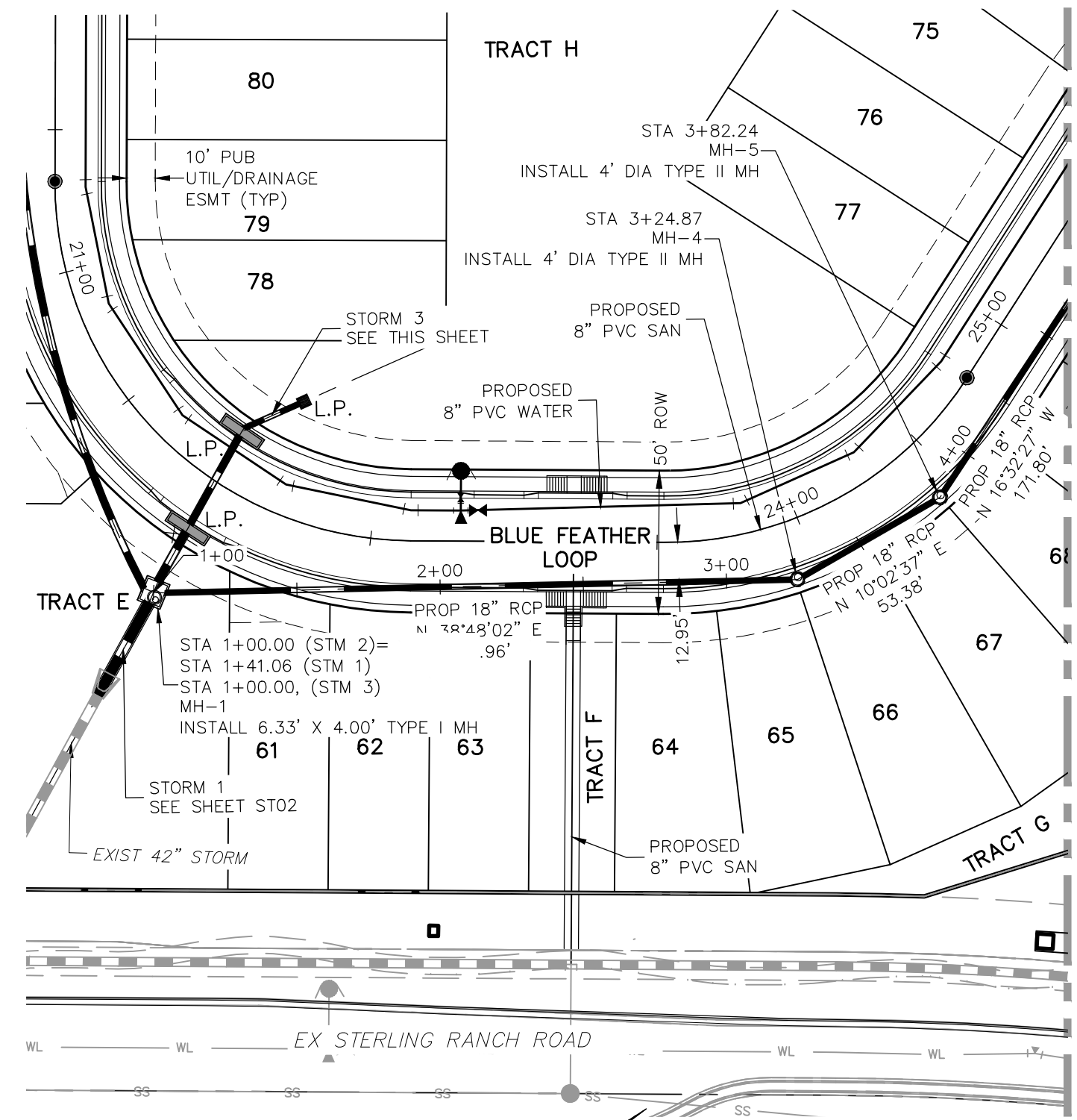
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION

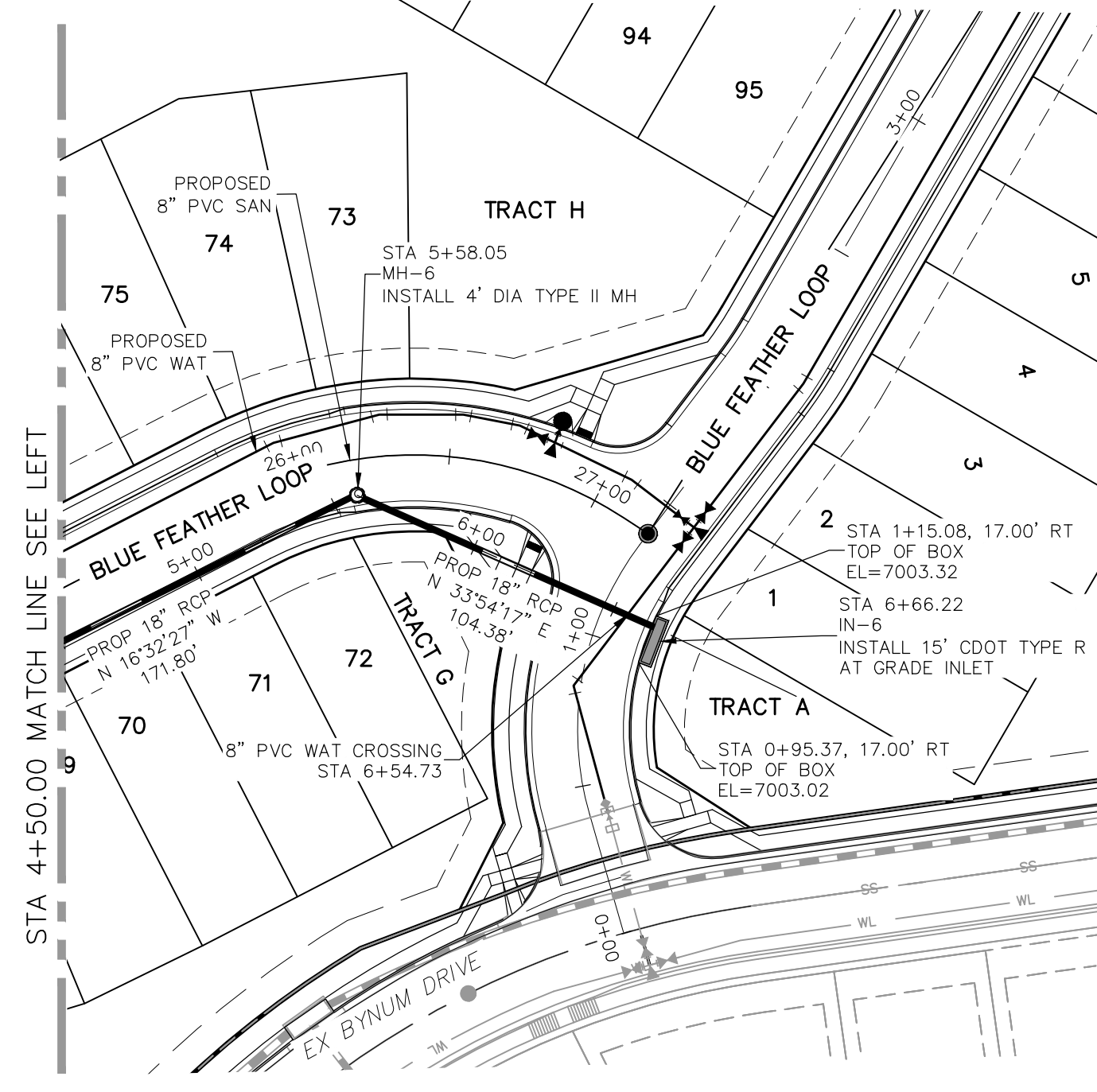
APPRO'D. BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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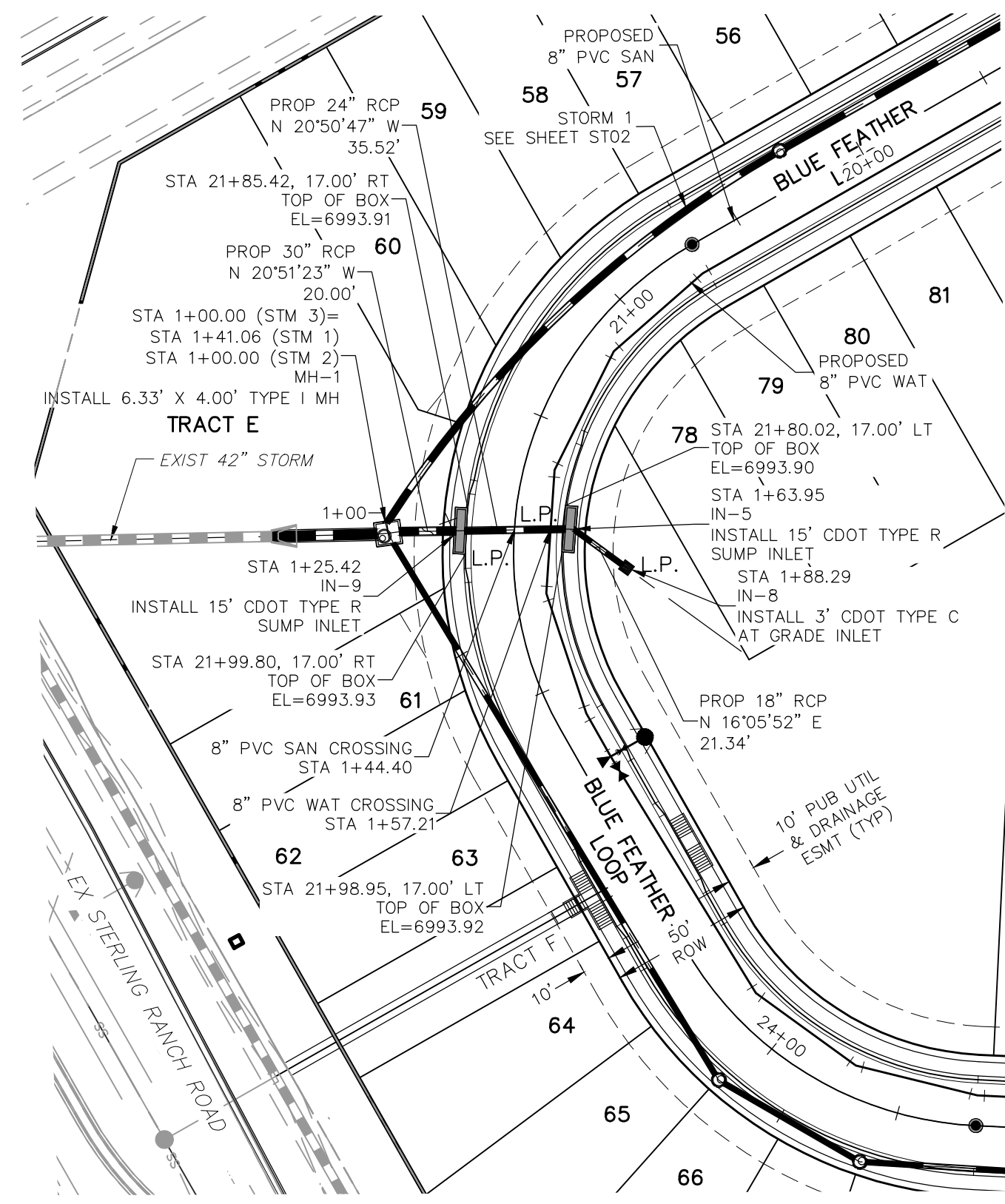
CAUTION



**STORM 2**  
**STA 1+00.00 TO STA 4+50.00**

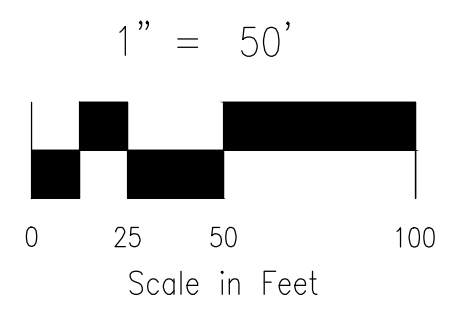


**STORM 2**  
**STA 4+50.00 TO STA 6+66.22**



**STORM 3**  
**STA 1+00.00 TO STA 1+88.29**

**NOTE:**  
TOP OF BOX INLET STATIONS  
REFERENCE CENTERLINE STATIONING



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STATION	DESCRIPTION	ELEVATION	INLET	OUTLET	DIAMETER	LENGTH	GRADE	FLOW
1+00	INSTALL 4" DIA TYPE II MH	6985.64	6985.64		4"		2.00%	
2+00	8" PVC SAN CROSSING	6984.50	6984.50	6984.47	8"		2.50%	Q100=8.6 CFS
3+00	INSTALL 4" DIA TYPE II MH	6997.26	6997.26		4"		2.00%	
4+00	INSTALL 4" DIA TYPE II MH	6982.24	6982.24		4"		2.00%	
5+00	INSTALL 4" DIA TYPE II MH	6985.64	6985.64		4"		2.00%	
6+00	8" PVC WATER CROSSING	6984.73	6984.73	6984.50	8"		2.15%	Q100=8.8 CFS
7+00	INSTALL 15' CDOT TYPE R AT GRADE INLET	6986.22	6986.22		15'		1.61%	
1+00	INSTALL 6.33' X 4.00' TYPE I MH	6993.91	6993.91		6.33' x 4.00'		5.00%	Q100=32.1 CFS
2+00	INSTALL 15' CDOT TYPE R SUMP INLET	6986.64	6986.64		15'		0.50%	
3+00	8" PVC SAN CROSSING	6987.27	6987.27	6986.76	8"		1.51%	
4+00	INSTALL 15' CDOT TYPE R SUMP INLET	6988.92	6988.92		15'		0.50%	
5+00	INSTALL 3' CDOT TYPE C AT GRADE INLET	6989.02	6989.02		3'		0.50%	

**COPPER CHASE AT STERLING RANCH**  
**STORM SEWER PLAN & PROFILE**

PROJECT NO. 09-014 DATE: 08/05/2023  
SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'  
DESIGNED BY: CWV DRAWN BY: TAU CHECKED BY: DLM

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

FOR AND ON BEHALF OF  
MKS CIVIL CONSULTANTS, INC.

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

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