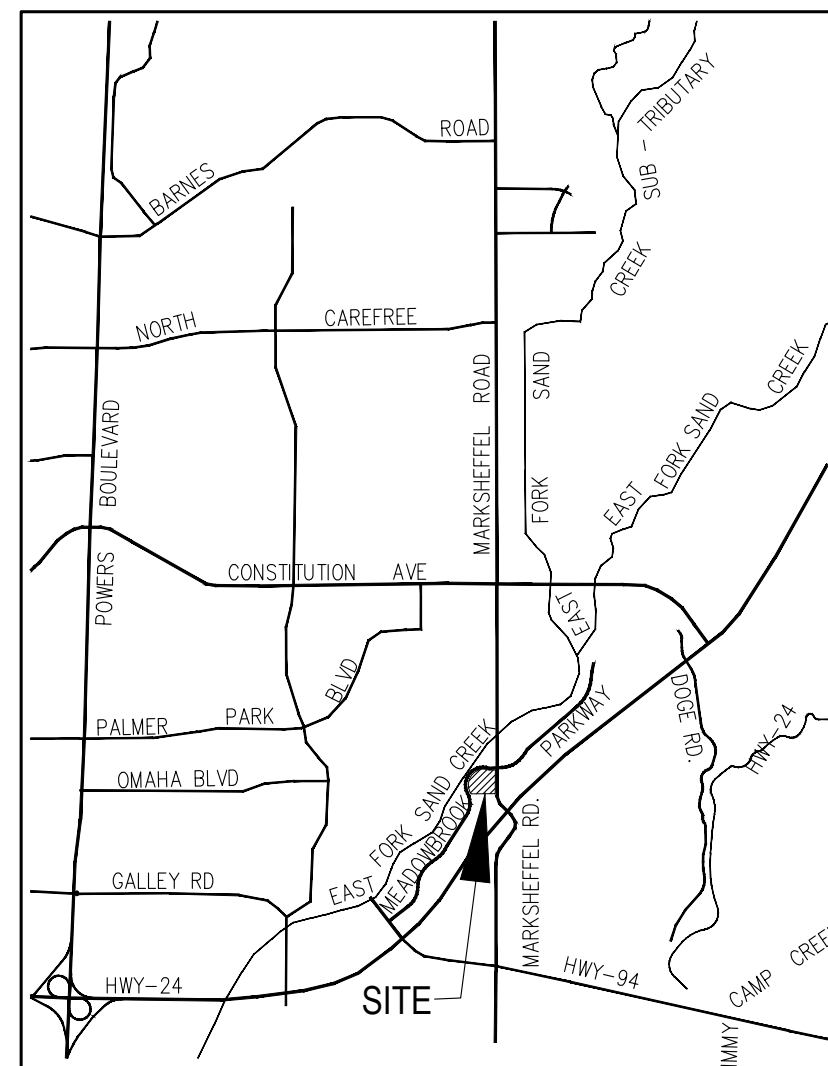


CLAREMONT BUSINESS PARK 2 FILING NO. 2

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

JULY 2023



VICINITY MAP
N.T.S.

AGENCIES:

- OWNER/DEVELOPER:** DTV MEADOWBROOK LLC
BRIAN ZUREK, MANAGING PARTNER
106 S. KYRENE RD. #2
CHANDLER, AZ 85226
(480) 313-2724
- CIVIL ENGINEER:** M & S CIVIL CONSULTANTS, INC.
212 N. WASHATCH, 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
(719) 520-6300
- TRAFFIC ENGINEERING:** EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS
3275 AKERS DRIVE
COLORADO SPRINGS, CO 80922
JOSHUA PALMER, P.E. (719) 520-6460
- WATER RESOURCES:** CHEROKEE METROPOLITAN DISTRICT
6250 PALMER PARK BOULEVARD
COLORADO SPRINGS, CO 80915-1721
JEFF MUNGER (719) 597-5080
- FIRE DISTRICT:** CIMARRON HILLS FIRE DEPARTMENT
1835 TUSKEGEE PLACE
COLORADO SPRINGS, CO 80915
(719) 591-0960
- GAS DEPARTMENT:** COLORADO SPRINGS UTILITIES
7710 DURANT DR.
COLORADO SPRINGS, CO 80947
TIM WENDT (719) 688-3556
- ELECTRIC DEPARTMENT:** COLORADO SPRINGS UTILITIES
7710 DURANT DR.
COLORADO SPRINGS, CO 80947
TIM WENDT (719) 688-3556
- COMMUNICATIONS:** QWEST COMMUNICATIONS (U.N.C.C. LOCATORS) (800) 922-1987
AT&T (LOCATORS) (719) 635-3674

NOTE:

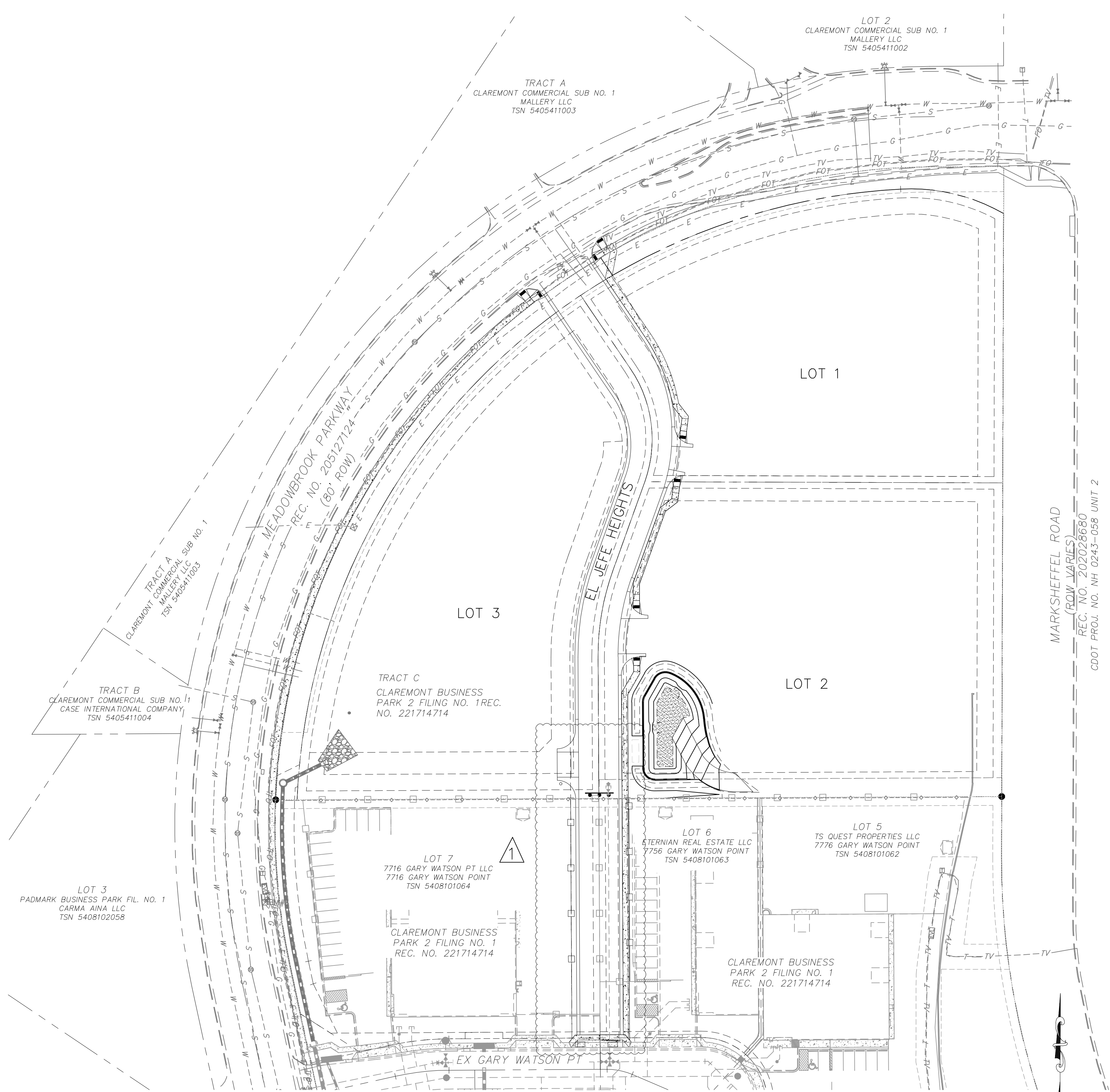
THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL TIE-IN/CONNECTIONS TO EXISTING MANHOLES AND/OR STUBS PRIOR TO CONSTRUCTION. ANY DISCREPANCY TO THE ANTICIPATED/PREVIOUSLY MEASURED ELEVATIONS PROVIDED ON THE PLANS SHALL BE CONVEYED TO THE ENGINEER AND A RESOLVE REACHED PRIOR TO INSTALLATION.

BENCHMARKS:

- BL33 BEING A BERNTSEN TOP SECURITY MONUMENT IN RANGE BOX 5' SOUTH OF SOUTH ROW FENCE OF HWY 24 UNDER CENTERLINE OF TRANSMISSION LINE. ELEVATION = 6372.26' PLAT AVE.
- CONTROL POINT 1, SET PK NAIL IN NE CORNER OF ELECTRIC TRANSFORMER PAD ELEVATION = 6372.26'

BASIS OF BEARINGS

THE NORTH LINE OF LOTS 5, 6 AND 7 "CLAREMONT BUSINESS PARK 2 FILING NO. 1" AS RECORDED UNDER RECEPTION NO. 221714714 OF THE RECORDS OF EL PASO COUNTY, COLORADO, MONUMENTED AT THE NORTHEAST CORNER OF LOT 5 WITH A NO. 5 REBAR WITH ORANGE SURVEYOR'S CAP STAMPED "M&S CIVIL PLS 25966", FROM WHICH THE NORTHWEST CORNER OF LOT 7, MONUMENTED WITH A NO. 5 REBAR WITH ORANGE SURVEYOR'S CAP STAMPED M&S CIVIL PLS 25966, BEARS S89°44'12"W, A DISTANCE OF 578.27 U.S. SURVEY FEET.



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.



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

OWNER/DEVELOPER'S STATEMENT:

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

Brian Zurek 7/25/2023
BRIAN ZUREK, MANAGING PARTNER DATE

DTV MEADOWBROOK LLC
ADDRESS: 106 S. KYRENE RD, CHANDLER, AZ 85226

EL PASO COUNTY:

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

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

IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT 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.

Approved
By: **Gilbert LaForce, P.E.**
Engineering Manager
Date: **11/13/2023 3:51:52 PM**
El Paso County Department of Public Works

SHEET INDEX

- SHEET 1 TITLE SHEET
- SHEET 2 CONSTRUCTION NOTES, LEGEND & DETAILS
- SHEET 3 CONSTRUCTION STANDARD DETAILS
- SHEET 4 STREET IMPROVEMENT DETAILS
- SHEET 5 SIDEWALK AND INTERSECTION DETAILS
- SHEET 6 STRIPING AND SIGNAGE PLAN
- SHEET 7 STORM SEWER PLAN AND PROFILE
- SHEET 8 STORM SEWER PLAN AND PROFILE
- SHEET 9 STORM SEWER PLAN AND PROFILE
- SHEET 10 STORM SEWER NOTES
- SHEET 11 STORM SEWER DETAILS
- SHEET 12 OUTLET POND STRUCTURE DETAILS
- SHEET 13 OUTLET POND STRUCTURE DETAILS
- SHEET 14 OUTLET POND STRUCTURE DETAILS

APPROVED
Engineering Department
05/23/2024 1:25:56 PM
dotdurham
EPC Planning & Community Development Department

REVISION 1 INVOLVES THE ADDITION OF A BARRICADE AT THE SOUTHERN BOUNDARY WITHIN EL JEFE HTS. FURTHERMORE, THE CONNECTION FROM THE PROPERTY'S SOUTHERN BOUNDARY TO GARY WATSON, PT. SHALL NOT BE CONSTRUCTED AT THIS TIME. INSTEAD, IT HAS BEEN IDENTIFIED AS A POTENTIAL FUTURE CONNECTION THAT MAY BE BUILT IF EL PASO COUNTY DEEMS NECESSARY. ADDITIONALLY, A CURB RETURN HAS BEEN ADDED TO LOT 3 FOR TEMPORARY USE AS A TURNAROUND UNTIL LOT 3 DEVELOPS, WHERE A PERMANENT TURNAROUND SHALL BE PROVIDED.

EL PASO COUNTY FILE NO. VR233

CLAREMONT BUSINESS PARK 2 FIL. NO. 2

TITLE SHEET

PROJECT NO. 10-020 SCALE: HORIZONTAL: N/A VERTICAL: N/A DATE: 07/20/23

DESIGNED BY: GW DRAWN BY: CLP CHECKED BY: VAS SHEET 1 OF 14 CD01

212 N. WASHATCH AVE, STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.955.5485

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

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

FOR 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.

REVISIONS:
NO. DATE BY DESCRIPTION
1 02/14/24 GW REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT

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), REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNER'S GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. 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.

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 ONSITE AND OFFSITE, 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 PCD - 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 DPW AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE 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:

- 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.
- 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.

SPECIAL NOTE:

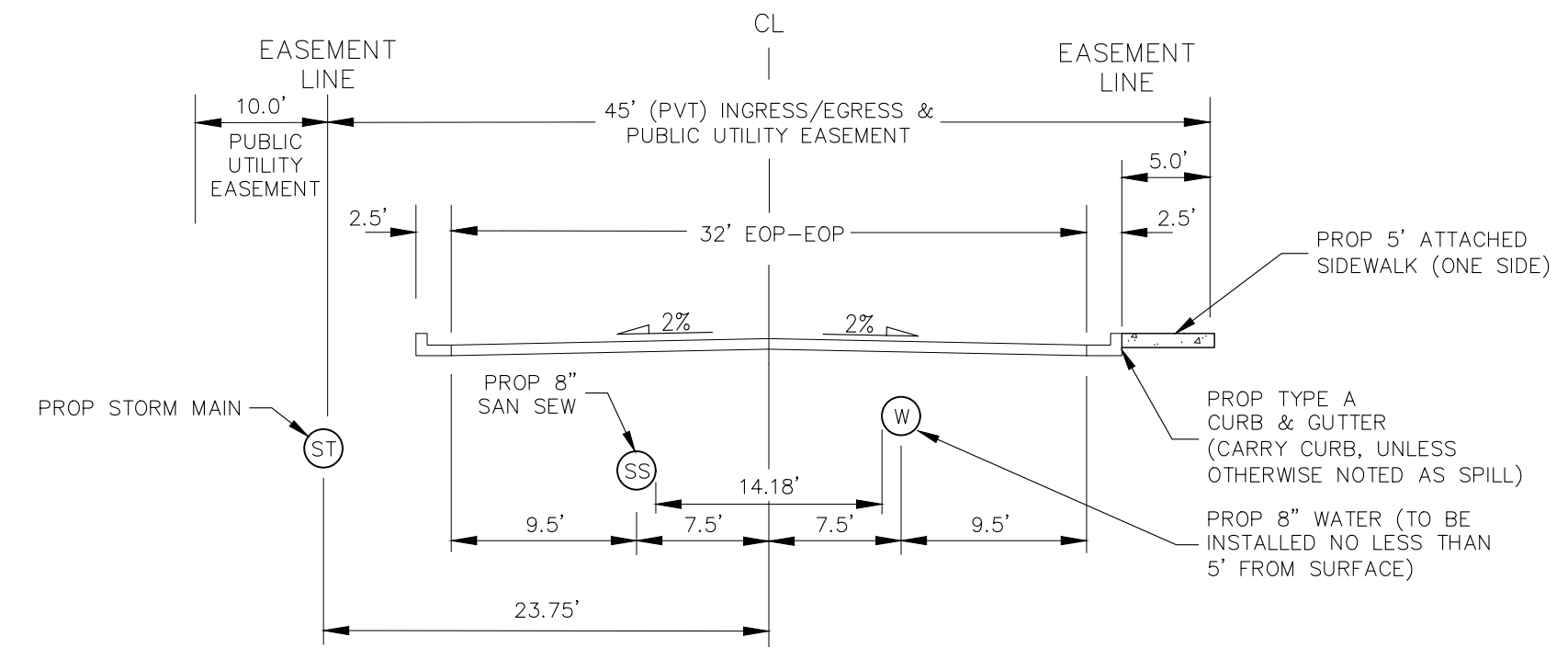
THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

ABBREVIATION LEGEND:

CL	CENTERLINE INTERSECTION	LT	LEFT
FL-FL	FLOWLINE INTERSECTION	RT	RIGHT
BT	BEGIN TRANSITION	FL	FLOWLINE
ET	END TRANSITION	TBC	TOP BACK OF CURB
PC	POINT OF CURVE	XPAN	CROSSSPAN
PCC	POINT OF COMPOUND CURVE	STD	STANDARD
PCR	POINT OF CURB RETURN	SHT	SHEET
PRC	POINT OF REVERSE CURVE	P&P	PLAN AND PROFILE
PT	POINT OF TANGENT	C&G	CURB AND GUTTER
EL	ELEVATION	W	WEST
CDS	CU-DE-SAC	E	EAST
KN	KNUCKLE	ROW	RIGHT OF WAY
LP	LOW POINT	EOP	EDGE OF PAVEMENT
N	NORTH	WTR	WATER
S	SOUTH	SAN	SANITARY SEWER
HP	HIGH POINT	PVT	PRIVATE
PUB	PUBLIC	WV	WATER VALVE
C&G	CURB AND GUTTER	PED	PEDESTRIAN
CMD	CHEROKEE METRO DISTRICT		

LEGEND:

SAWCUT LINE	---
SITE BOUNDARY	— — — — —
ADJACENT PROPERTY	— — — — —
EXIST STORM SEWER LINE	— — — — —
EX. UNDERGROUND ELECTRIC LINE	— UE —
EX. SANITARY SEWER LINE	— SS —
EX. WATER LINE	— WL —
EX. GAS MAIN	— UG —
EX. FENCE	— [] —
EASEMENT	— — — — —
PROP C&G	====
EX. STORM MH	⊙
EX. SANITARY MANHOLE	⊙
EX. WATER VALVE	⊙



EL JEFFE HEIGHTS
URBAN LOCAL CROSS SECTION (PRIVATE)
 POSTED SPEED 25 MPH
 DESIGN SPEED 30 MPH



CLAREMONT BUSINESS PARK 2 FIL. NO. 2
 CONSTRUCTION NOTES, LEGEND & DETAILS
 PROJECT NO. 10-020
 SCALE: HORIZONTAL: N/A VERTICAL: N/A
 DATE: 07/20/23
 SHEET 2 OF 14
 CD02

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

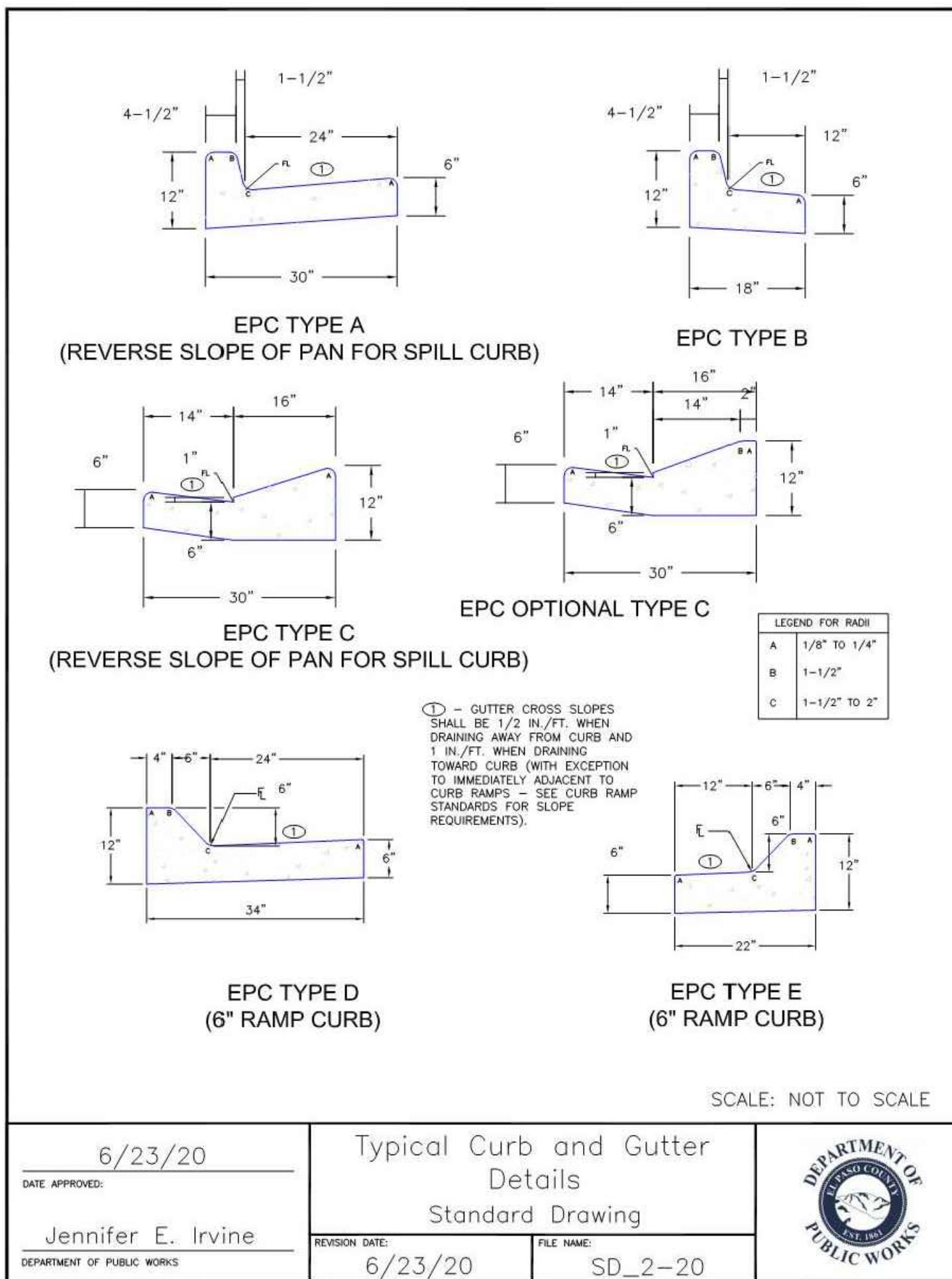
CIVIL CONSULTANTS, INC.

TOP AND ON BEHALF OF
 VIRGIL A. SANCHEZ
 CIVIL CONSULTANTS, INC.

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 PREPARE OF THESE PLANS.

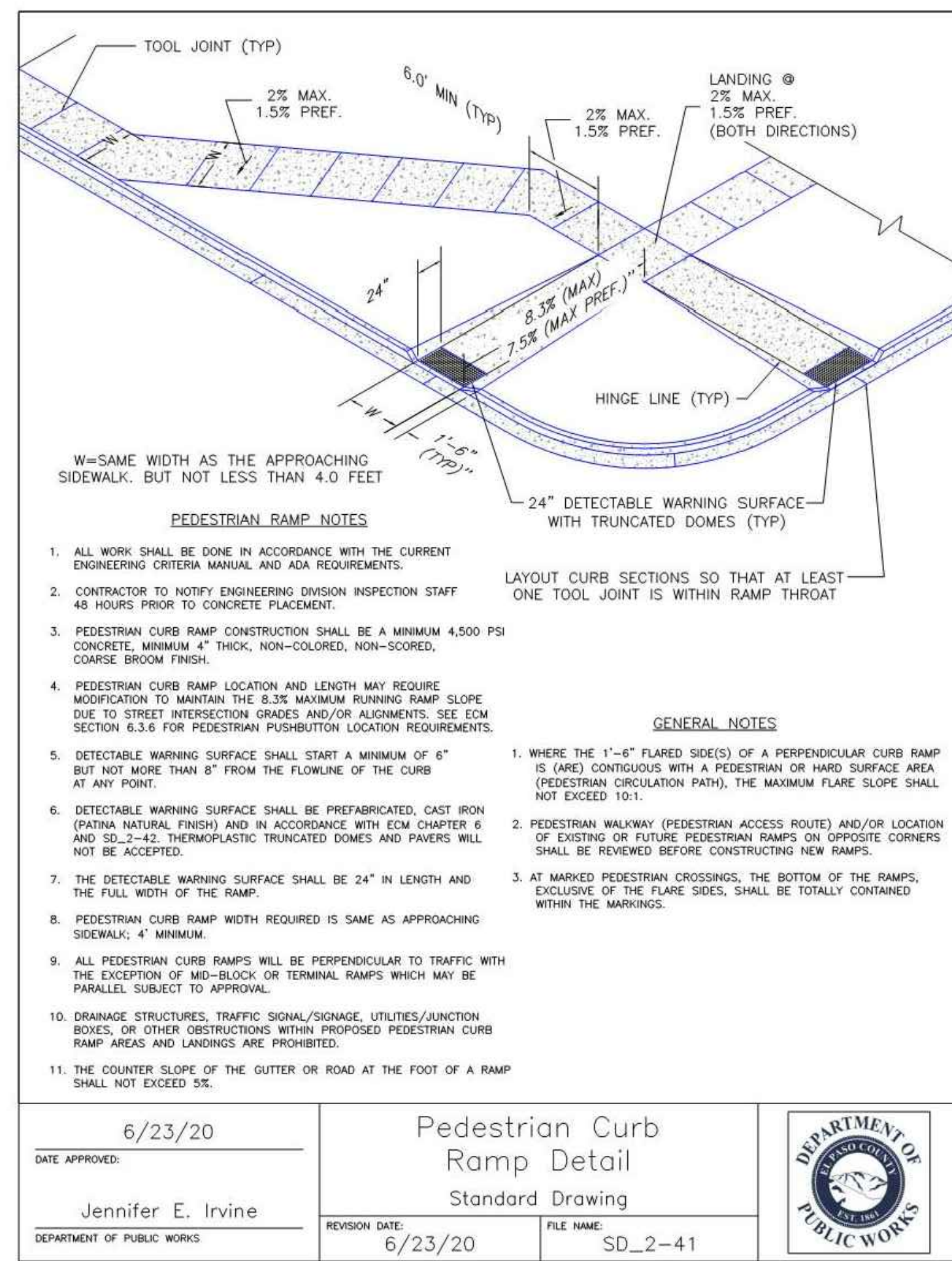
CAUTION



6/23/20
DATE APPROVED: Jennifer E. Irvine
DEPARTMENT OF PUBLIC WORKS

Typical Curb and Gutter Details
Standard Drawing

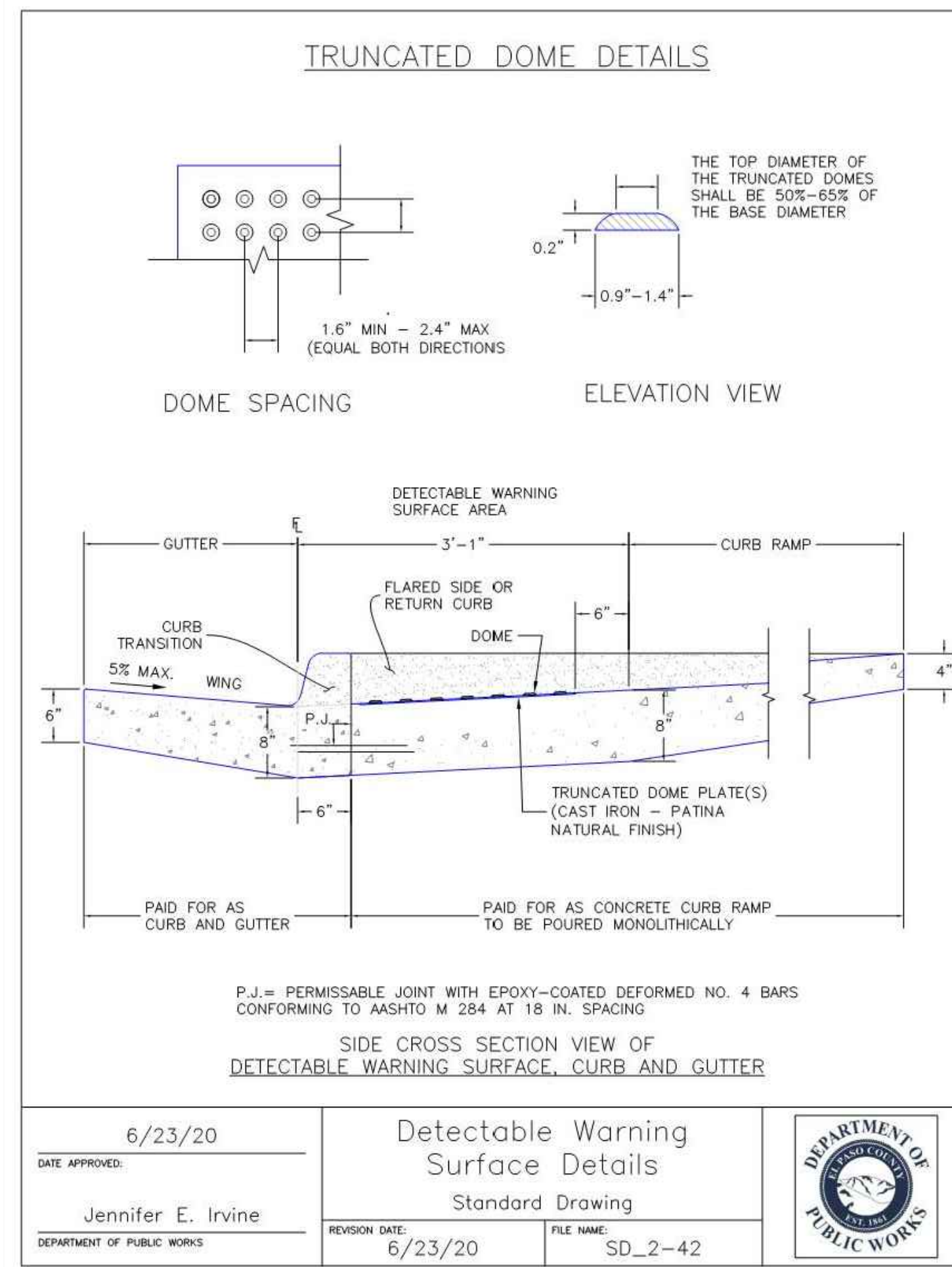
REVISION DATE: 6/23/20
FILE NAME: SD_2-20



6/23/20
DATE APPROVED: Jennifer E. Irvine
DEPARTMENT OF PUBLIC WORKS

Pedestrian Curb Ramp Detail
Standard Drawing

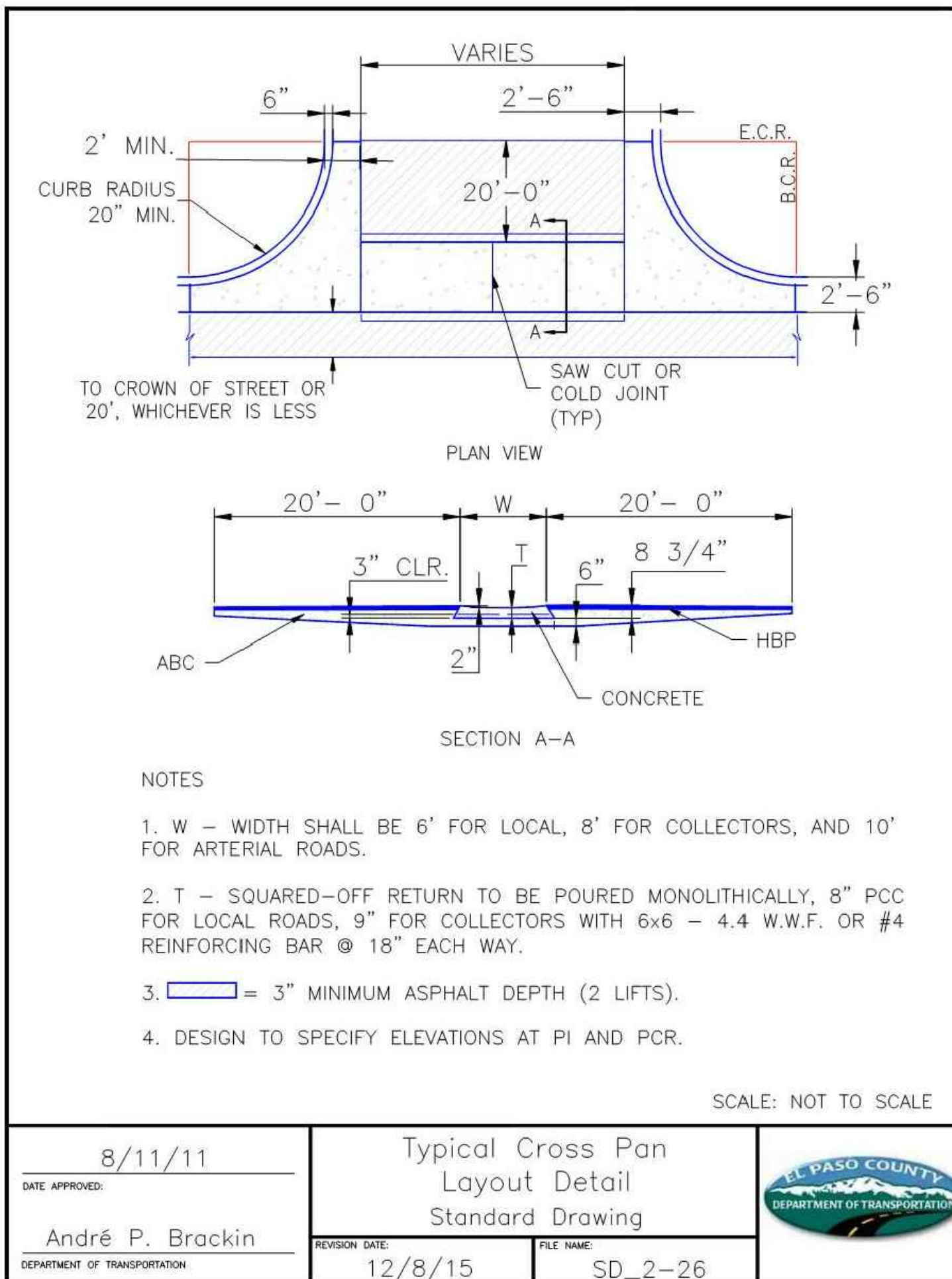
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6/23/20
DATE APPROVED: Jennifer E. Irvine
DEPARTMENT OF PUBLIC WORKS

Detectable Warning Surface Details
Standard Drawing

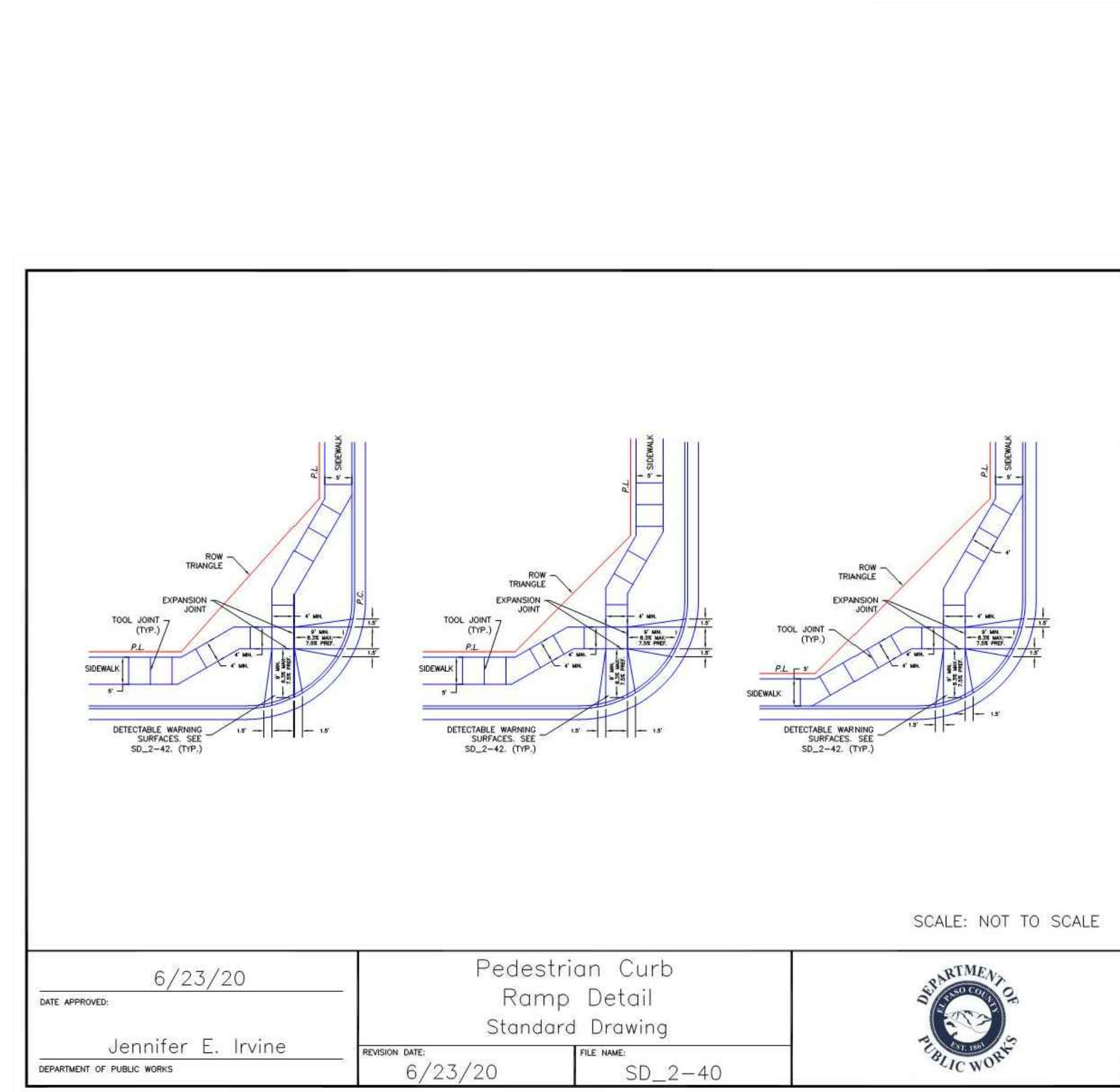
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FILE NAME: SD_2-42



8/11/11
DATE APPROVED: André P. Brackin
DEPARTMENT OF TRANSPORTATION

Typical Cross Pan Layout Detail
Standard Drawing

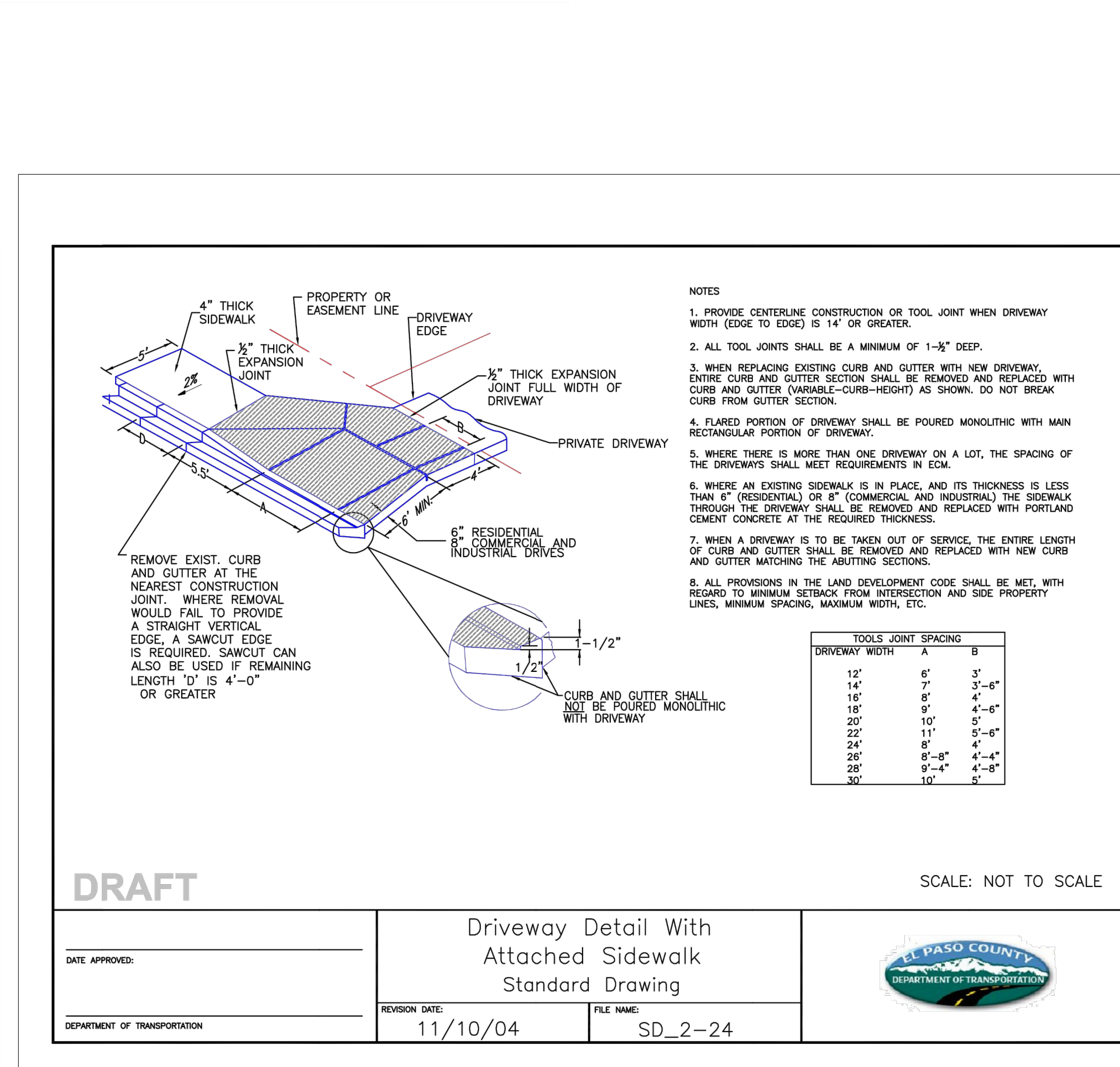
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FILE NAME: SD_2-26



6/23/20
DATE APPROVED: Jennifer E. Irvine
DEPARTMENT OF PUBLIC WORKS

Pedestrian Curb Ramp Detail
Standard Drawing

REVISION DATE: 6/23/20
FILE NAME: SD_2-40



11/10/04
DATE APPROVED: [Signature]
DEPARTMENT OF TRANSPORTATION

Driveway Detail With Attached Sidewalk
Standard Drawing

REVISION DATE: 11/10/04
FILE NAME: SD_2-24

CLAREMONT BUSINESS PARK 2 FIL. NO. 2

CONSTRUCTION STANDARD DETAILS

PROJECT NO. 10-020
SCALE: HORIZONTAL: N/A
DATE: 07/20/23
DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS
SHEET 3 OF 14
CD03

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

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
WKS CIVIL CONSULTANTS, INC.

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

REVISIONS:

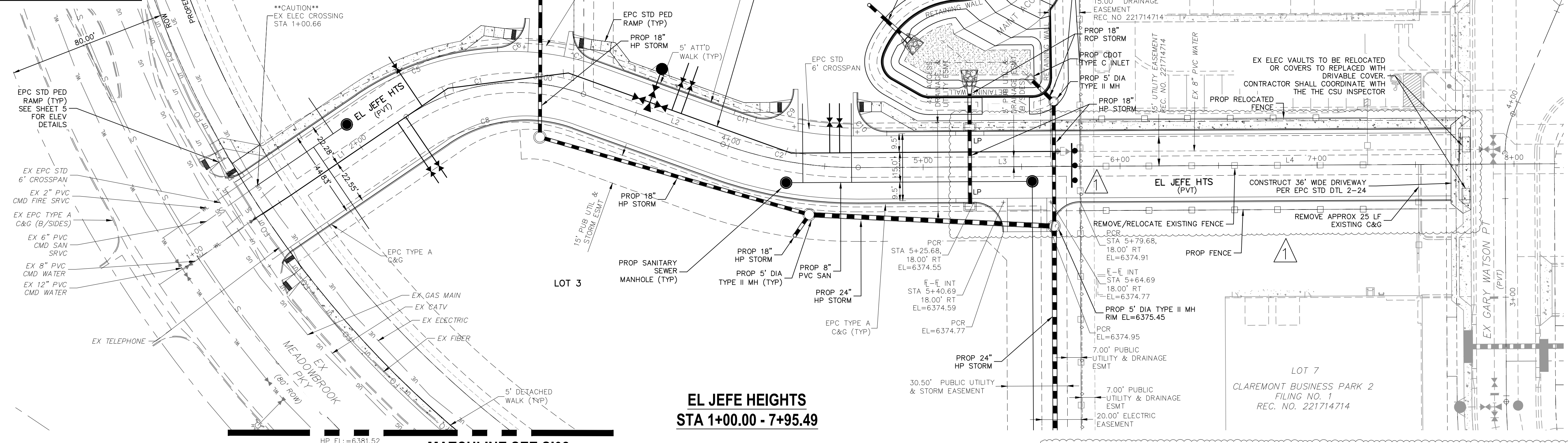
NO.	DATE	BY	DESCRIPTION

DATE: []
APPROVED BY: []

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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



CENTERLINE LINE TABLE

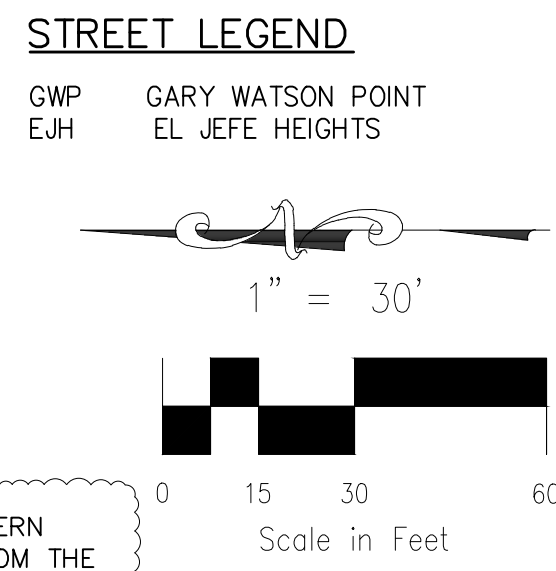
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L1	87.63	S34°12'27"E
L2	75.27	S19°45'08"W
L3	112.61	S01°8'37"E
L4	188.29	S01°8'37"E

CENTERLINE CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C1	94.18	100.00	53.96
C2	70.03	200.00	20.06

FLOWLINE CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C5	76.41	139.00	31.50
C6	22.81	15.00	87.11
C7	18.43	14.97	70.54
C8	65.92	70.00	53.96
C9	27.88	15.00	106.50
C10	23.56	15.00	90.00
C11	11.31	182.00	3.56

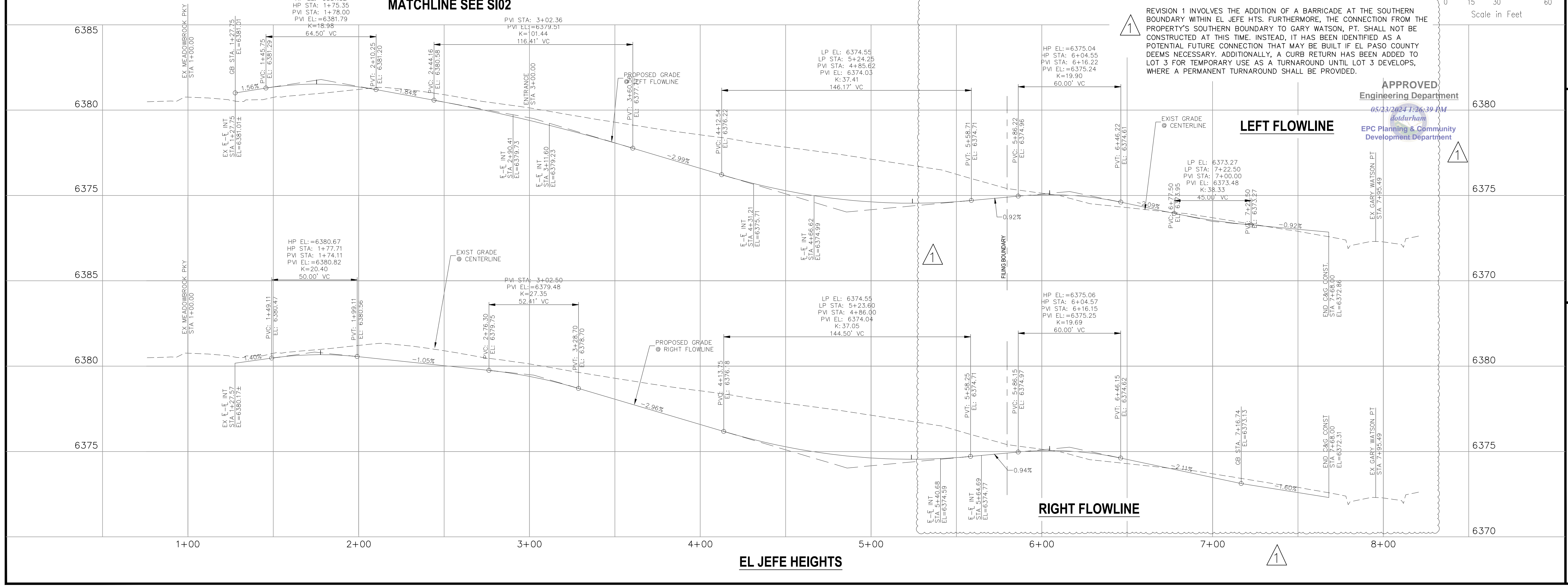


MATCHLINE SEE S102

**EL JEFE HEIGHTS
 STA 1+00.00 - 7+95.49**

REVISION 1 INVOLVES THE ADDITION OF A BARRICADE AT THE SOUTHERN BOUNDARY WITHIN EL JEFE HTS. FURTHERMORE, THE CONNECTION FROM THE PROPERTY'S SOUTHERN BOUNDARY TO GARY WATSON, PT. SHALL NOT BE CONSTRUCTED AT THIS TIME. INSTEAD, IT HAS BEEN IDENTIFIED AS A POTENTIAL FUTURE CONNECTION THAT MAY BE BUILT IF EL PASO COUNTY DEEMS NECESSARY. ADDITIONALLY, A CURB RETURN HAS BEEN ADDED TO LOT 3 FOR TEMPORARY USE AS A TURNAROUND UNTIL LOT 3 DEVELOPS, WHERE A PERMANENT TURNAROUND SHALL BE PROVIDED.

APPROVED
 Engineering Department
 05/23/2024 1:26:39 PM
 doturham
 EPC Planning & Community Development Department



**CLAREMONT BUSINESS PARK 2 FIL. NO. 2
 STREET IMPROVEMENT PLAN**

PROJECT NO. 10-020 DATE: 07/20/23
 SCALE: HORIZONTAL: 1"=30' VERTICAL: 1"=3'
 DESIGNED BY: GW CLP
 DRAWN BY: VAS
 CHECKED BY: VAS

212 N. WATCH AVENUE, STE 305
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF MRS. CIVIL CONSULTANTS, INC.

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

REGISTERED PROFESSIONAL ENGINEER
 37160
 02-14-20

REVISIONS:
 NO. DATE BY DESCRIPTION
 1 03/01/24 GW REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT

DATE: _____ BY: _____

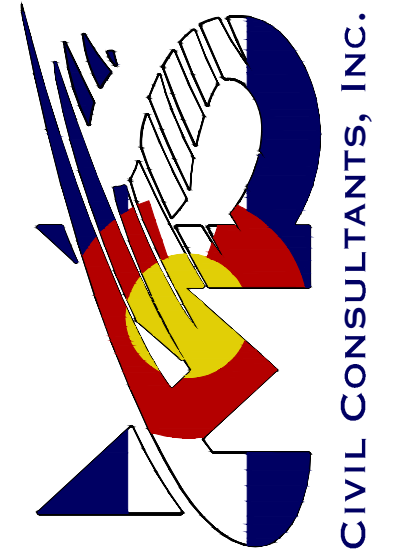
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION


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

CLAREMONT BUSINESS PARK 2 FIL. NO. 2
SIDEWALK & INTERSECTION DETAILS
 PROJECT NO. 10-020
 DATE: 10/03/23
 SCALE: HORIZONTAL: VERTICAL: N/A
 DESIGNED BY: GW
 DRAWN BY: CLP
 CHECKED BY: VAS
SHEET 5 OF 14
S102

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



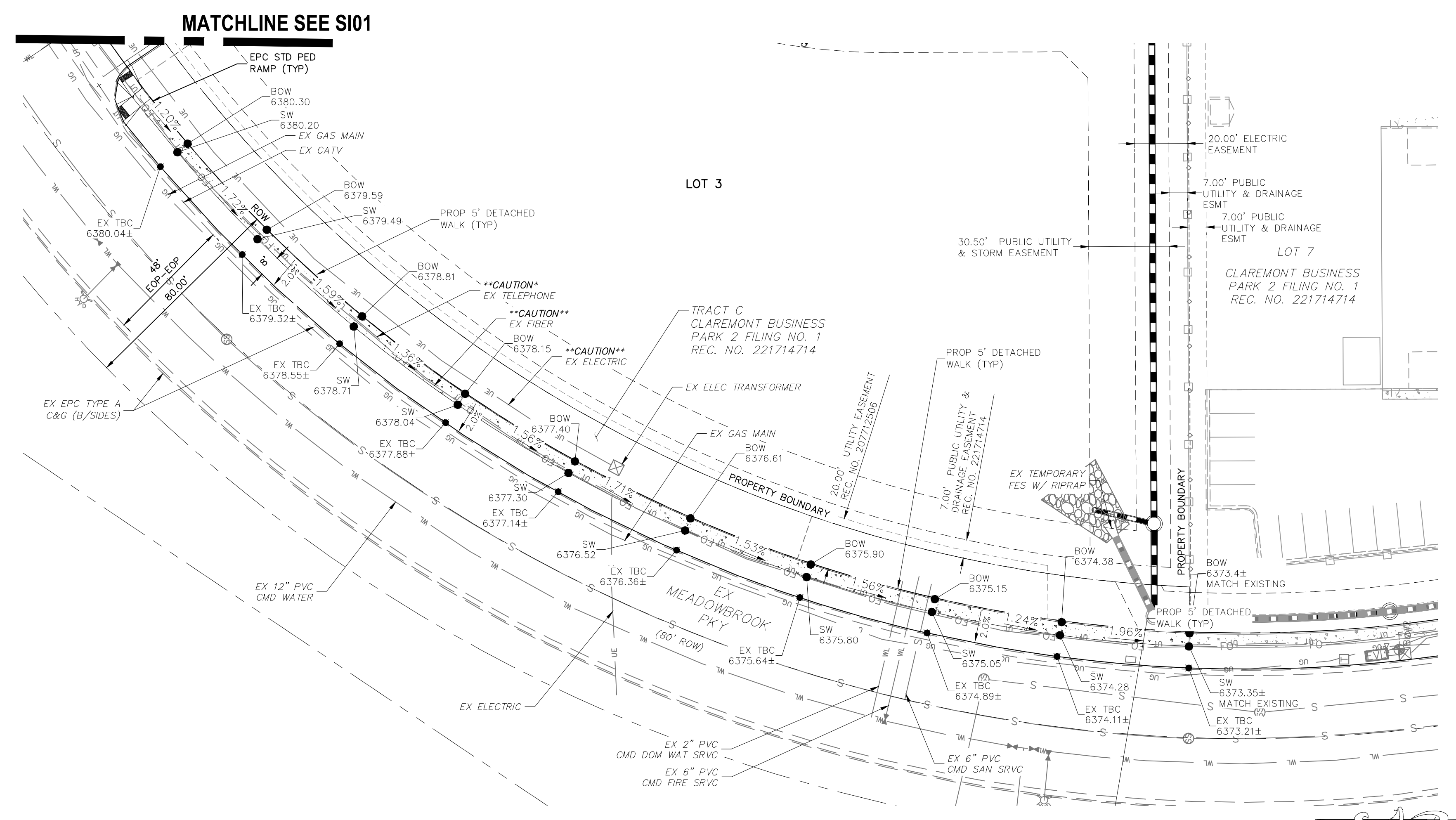
FOR AND ON BEHALF OF
 MRS. CIVIL CONSULTANTS, INC.



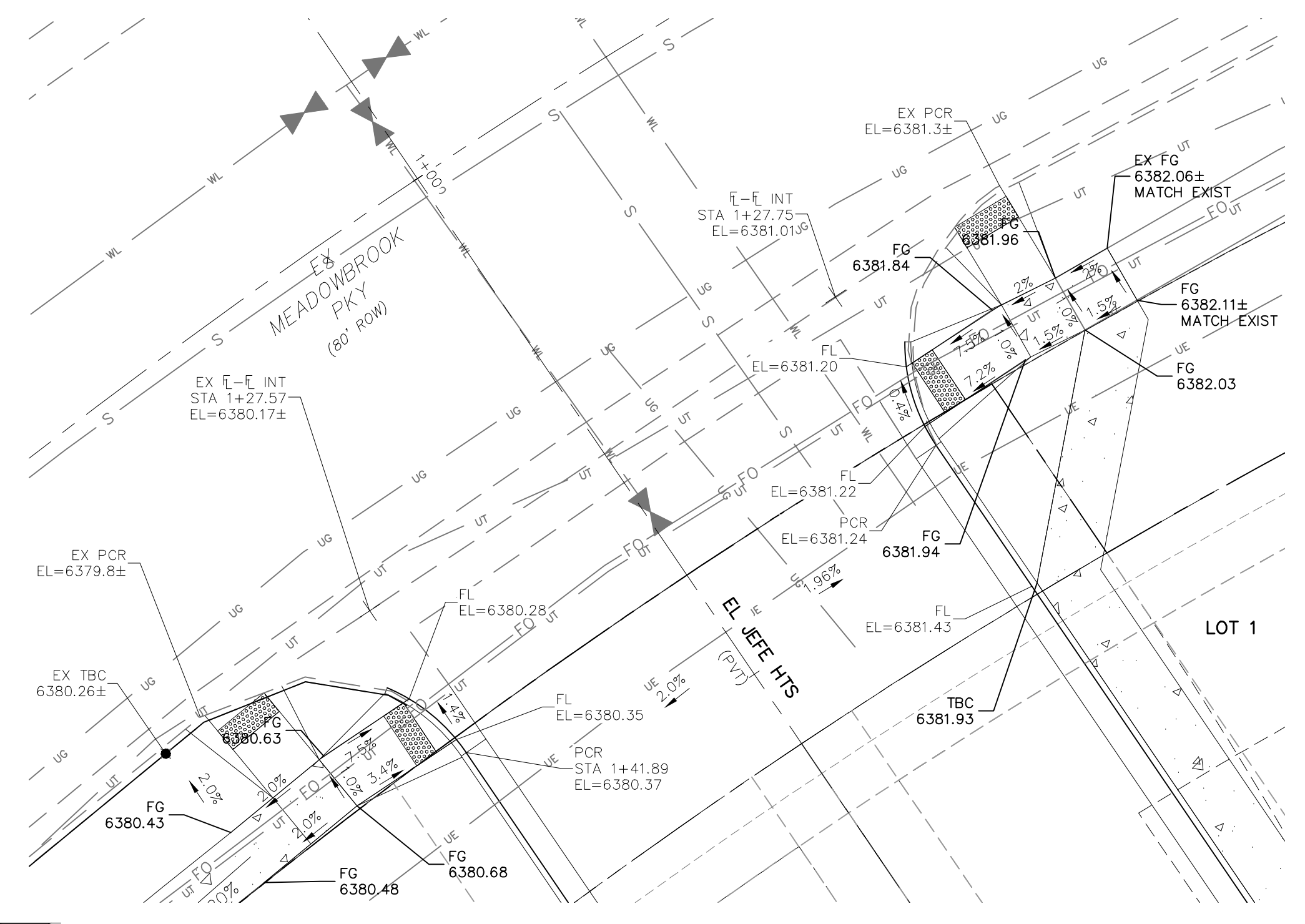
NO.	DATE	BY	DESCRIPTION

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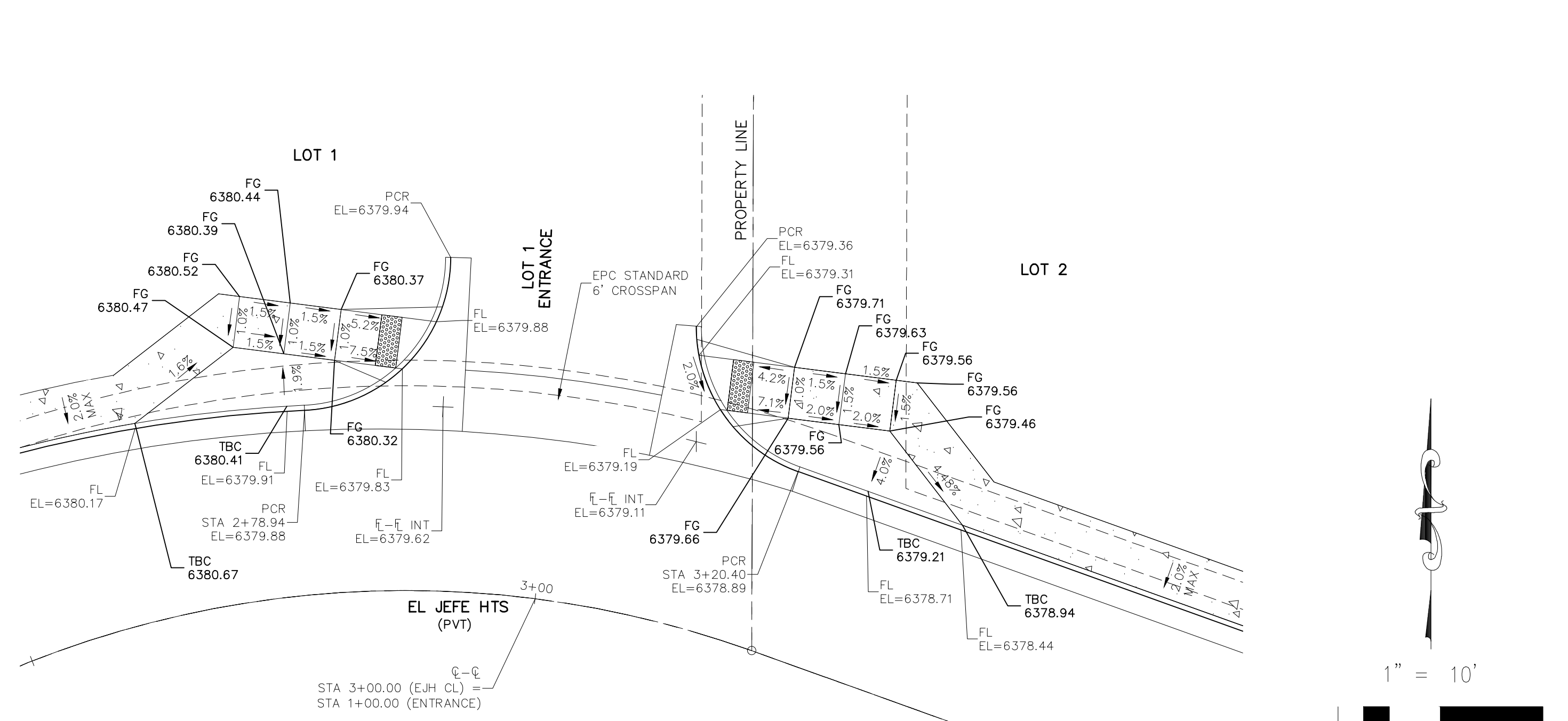
CAUTION



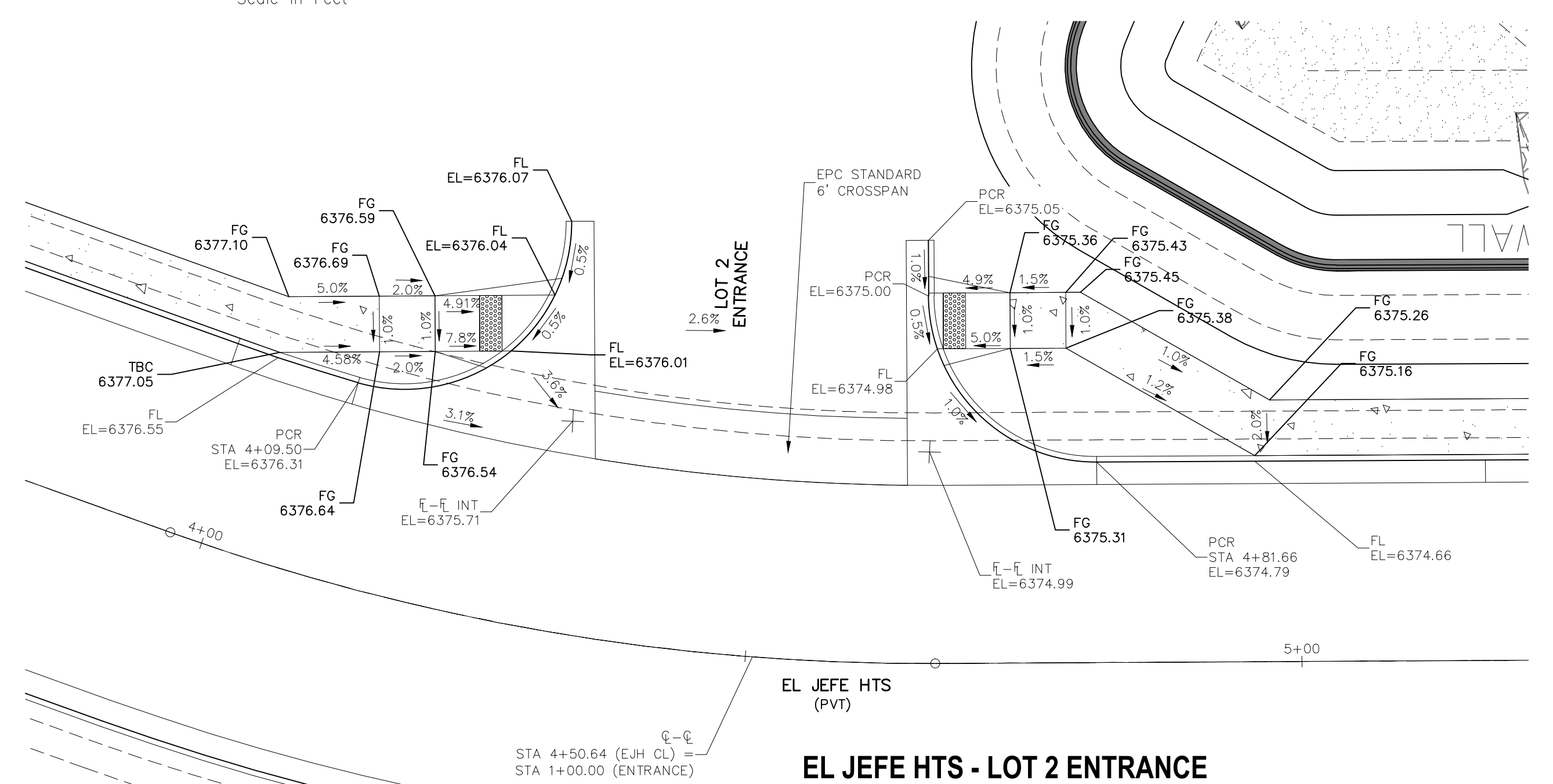
MEADOWBROOK PARKWAY SIDEWALK
 SCALE: 1"=30'



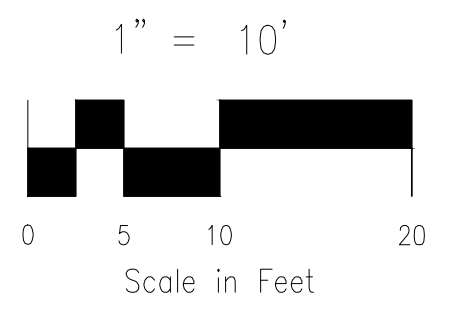
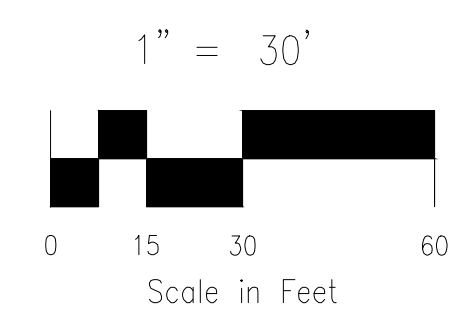
EX MEADOWBROOK PKY - EL JEFE HTS
 SCALE: 1"=10'



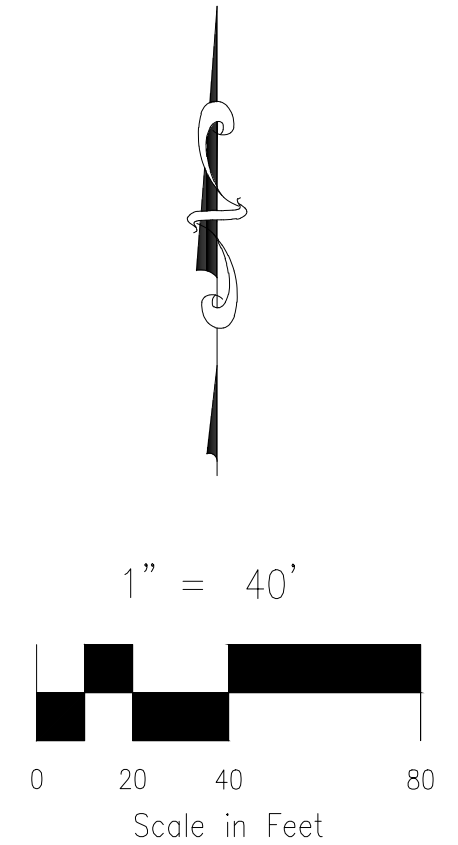
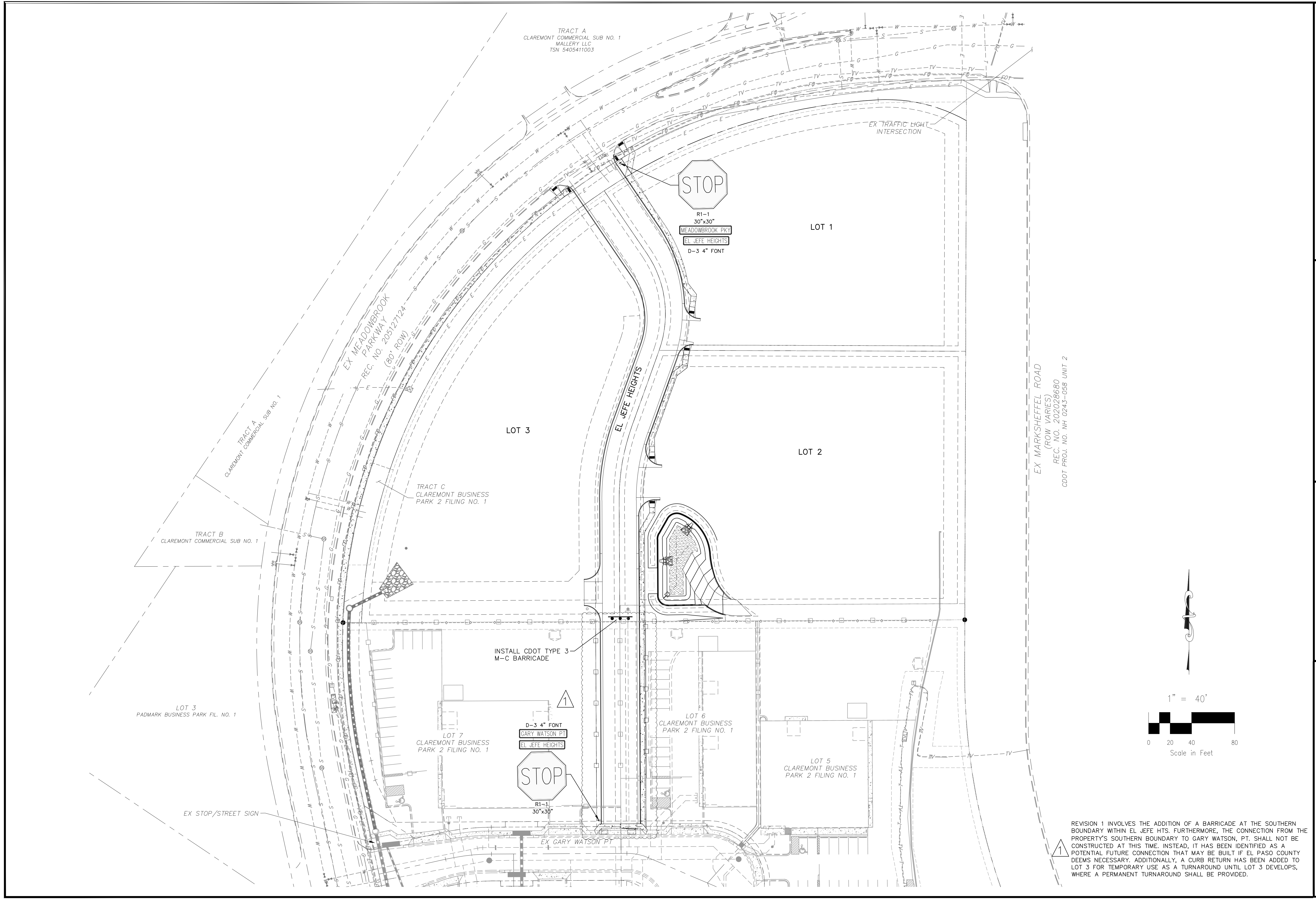
EL JEFE HTS - LOT 1 ENTRANCE
 SCALE: 1"=10'



EL JEFE HTS - LOT 2 ENTRANCE
 SCALE: 1"=10'

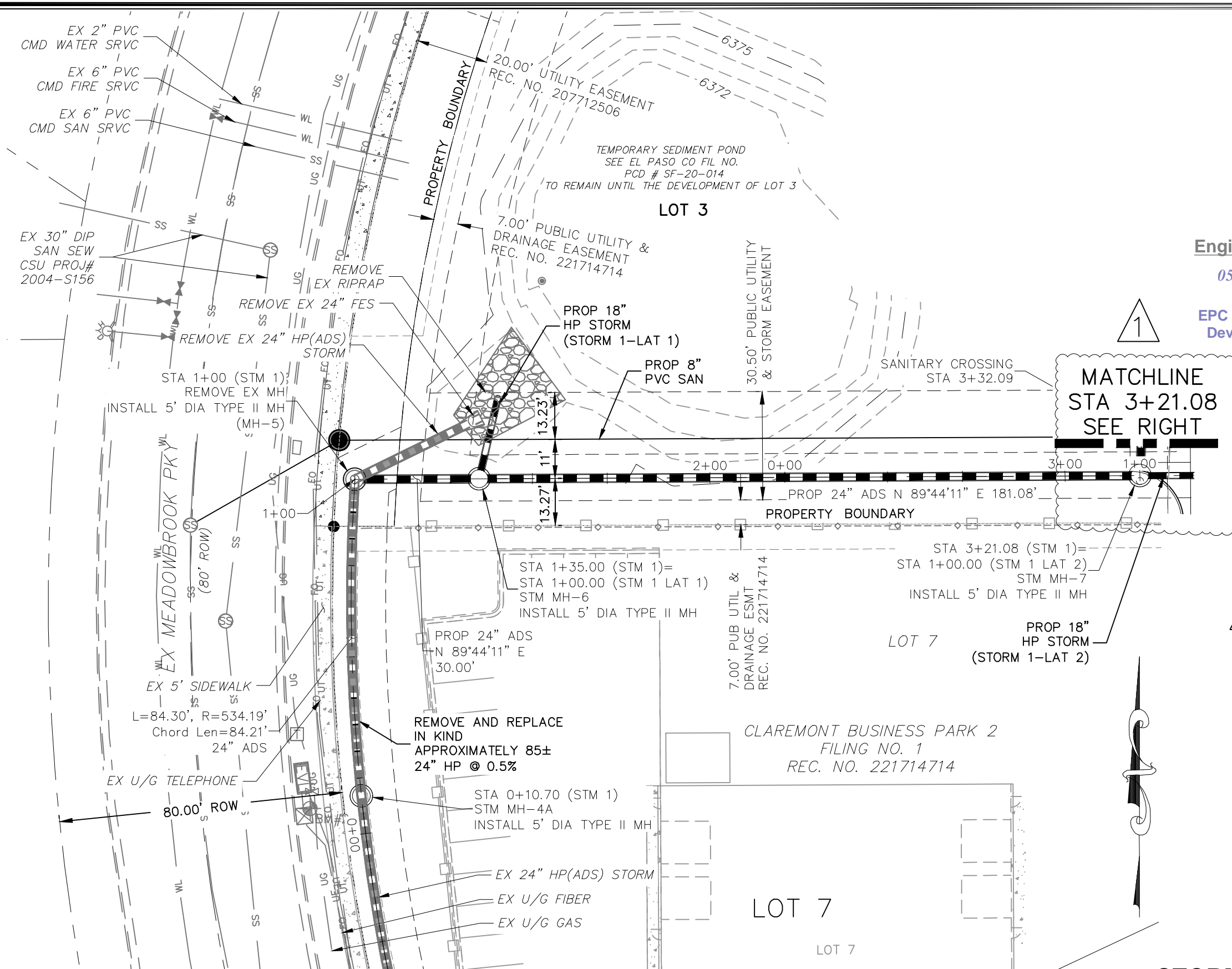


File: C:\10020A-CBP-Dunkin Donuts\Const Dwg\Street\S102.dwg PlotStamp: 10/3/2023 7:10 AM



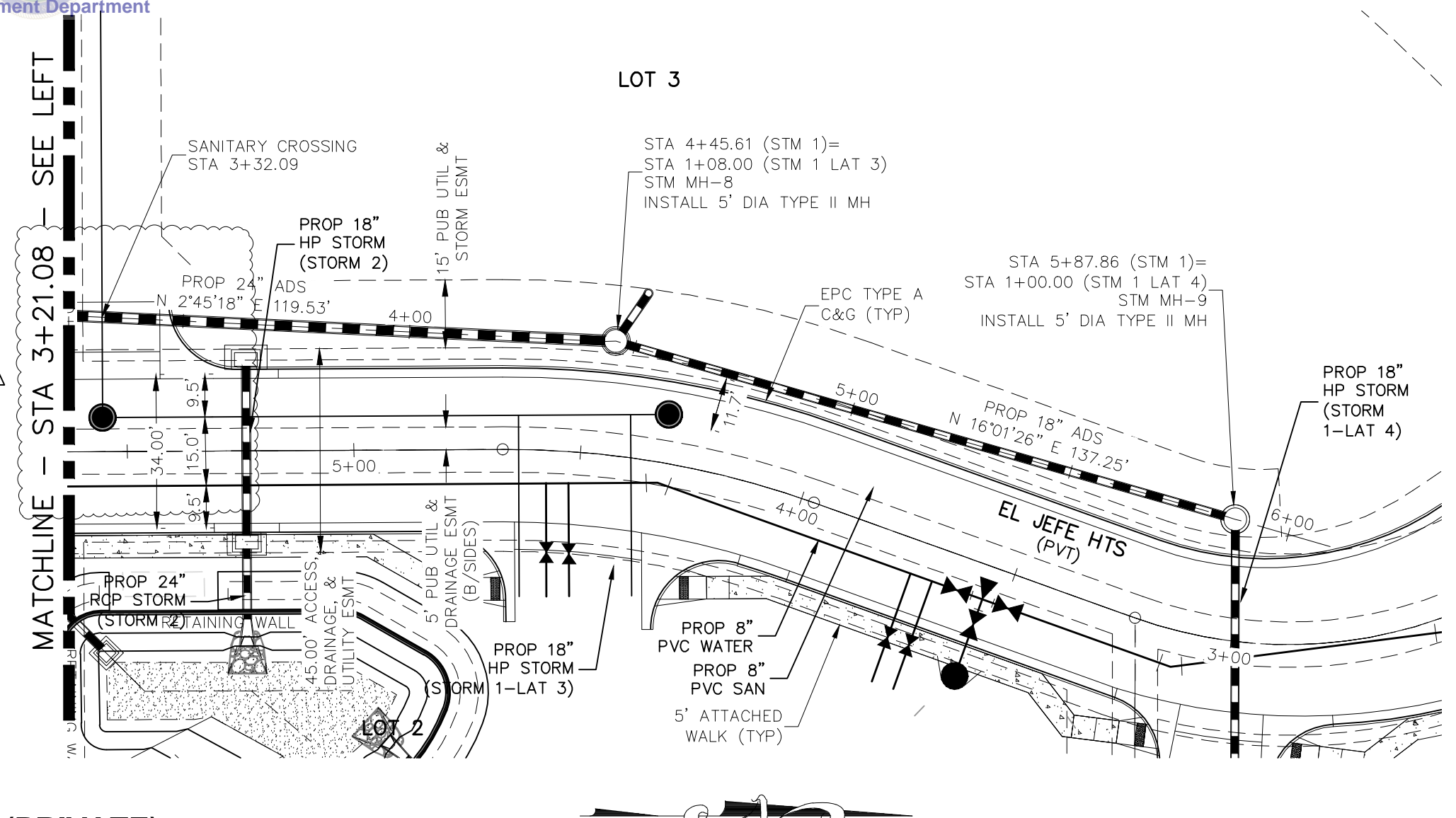
REVISION 1 INVOLVES THE ADDITION OF A BARRICADE AT THE SOUTHERN BOUNDARY WITHIN EL JEFE HTS. FURTHERMORE, THE CONNECTION FROM THE PROPERTY'S SOUTHERN BOUNDARY TO GARY WATSON, PT. SHALL NOT BE CONSTRUCTED AT THIS TIME. INSTEAD, IT HAS BEEN IDENTIFIED AS A POTENTIAL FUTURE CONNECTION THAT MAY BE BUILT IF EL PASO COUNTY DEEMS NECESSARY. ADDITIONALLY, A CURB RETURN HAS BEEN ADDED TO LOT 3 FOR TEMPORARY USE AS A TURNAROUND UNTIL LOT 3 DEVELOPS, WHERE A PERMANENT TURNAROUND SHALL BE PROVIDED.

CLAREMONT BUSINESS PARK 2 FIL. NO. 2 SIGNAGE AND STRIPING PLAN		PROJECT NO. 10-020 SCALE: HORIZONTAL: 1"=40' VERTICAL: N/A	DATE: 10/03/23 SHEET 6 OF 14 S103
212 N. WASHCATCH AVE., STE. 305 COLORADO SPRINGS, CO 80903 PHONE: 719.555.5485			
FOR AND ON BEHALF OF MKS CIVIL CONSULTANTS, INC.			
REVISIONS: NO. 1 DATE: 02/14/24 BY: GW DESCRIPTION: REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT	APP'D. 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			



APPROVED
Engineering Department
05/23/2024 1:27:17 PM
/dodurham
EPC Planning & Community
Development Department

MATCHLINE
STA 3+21.08
SEE RIGHT



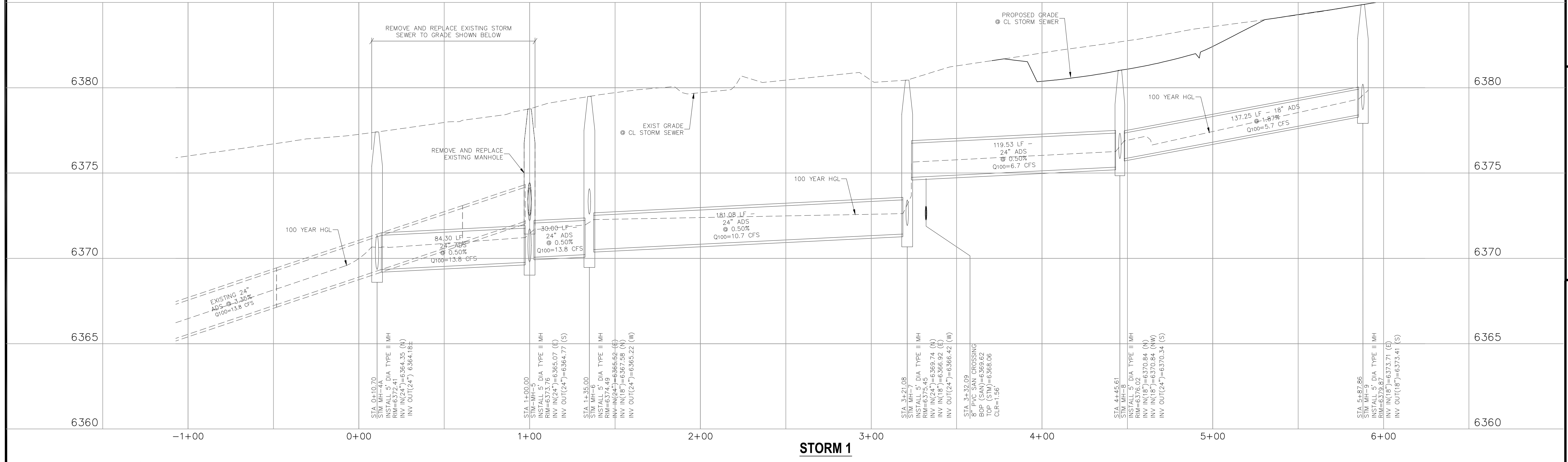
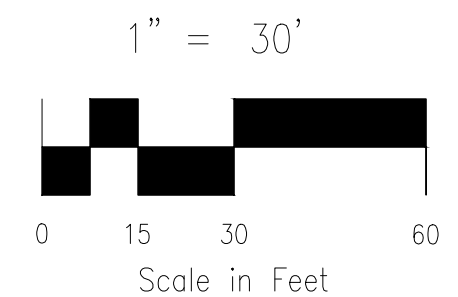
STORM 1 (PRIVATE)
STA 0+10.70 TO STA 5+87.86

NOTE:

- ALL STORM SEWER CONSTRUCTED WITH THESE PLANS SHALL BE CONSIDERED PRIVATE.
- GAS LINE NOT LOCATED, LOCATION TO BE DETERMINED BY CONTRACTOR

ABBREVIATION LEGEND

C&G	CURB AND GUTTER
CL	CENTERLINE
CONST	CONSTRUCTION
EL	ELEVATION
EX	EXISTING
LT	LEFT
N	NORTH
NTS	NOT TO SCALE
PUB	PUBLIC
PVT	PRIVATE
PROP	PROPOSED
RT	RIGHT
S	SOUTH
SAN	SANITARY SEWER
SLV	SLEEVE
SRV	SERVICE
STA	STATION
STM	STORM SEWER
W	WEST
WTR	WATER



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CALL 1-800-922-1987

1

REVISION 1 INVOLVES THE ADDITION OF A BARRICADE AT THE SOUTHERN BOUNDARY WITHIN EL JEFE HTS. FURTHERMORE, THE CONNECTION THROUGH THE PROPERTY'S SOUTHERN BOUNDARY TO GARY WATSON, PT. SHALL NOT BE CONSTRUCTED AT THIS TIME. INSTEAD, IT HAS BEEN IDENTIFIED AS A POTENTIAL FUTURE CONNECTION THAT MAY BE BUILT IF EL PASO COUNTY DEEMS NECESSARY. ADDITIONALLY, A CURB RETURN HAS BEEN ADDED TO LOT 3 FOR TEMPORARY TURNAROUND UNTIL LOT 3 DEVELOPS, WHERE A PERMANENT TURNAROUND SHALL BE PROVIDED.

CLAREMONT BUSINESS PARK 2 FIL. NO. 2
STORM SEWER PLAN & PROFILE

PROJECT NO. 10-020
DATE: 10/03/23
SCALE: HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS

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

CIVIL CONSULTANTS, INC.

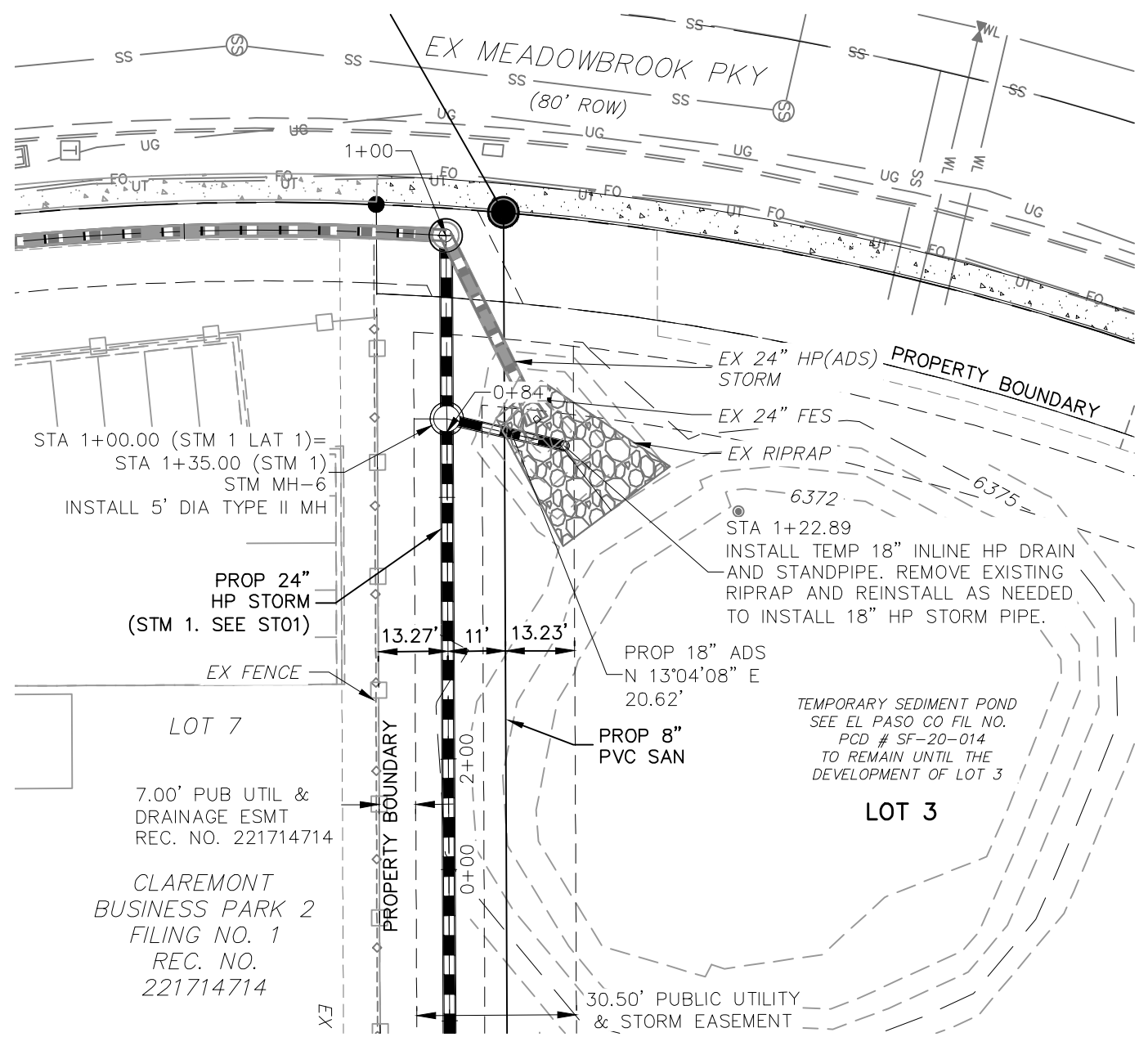
FOR AND ON BEHALF OF
MKS CIVIL CONSULTANTS, INC.

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

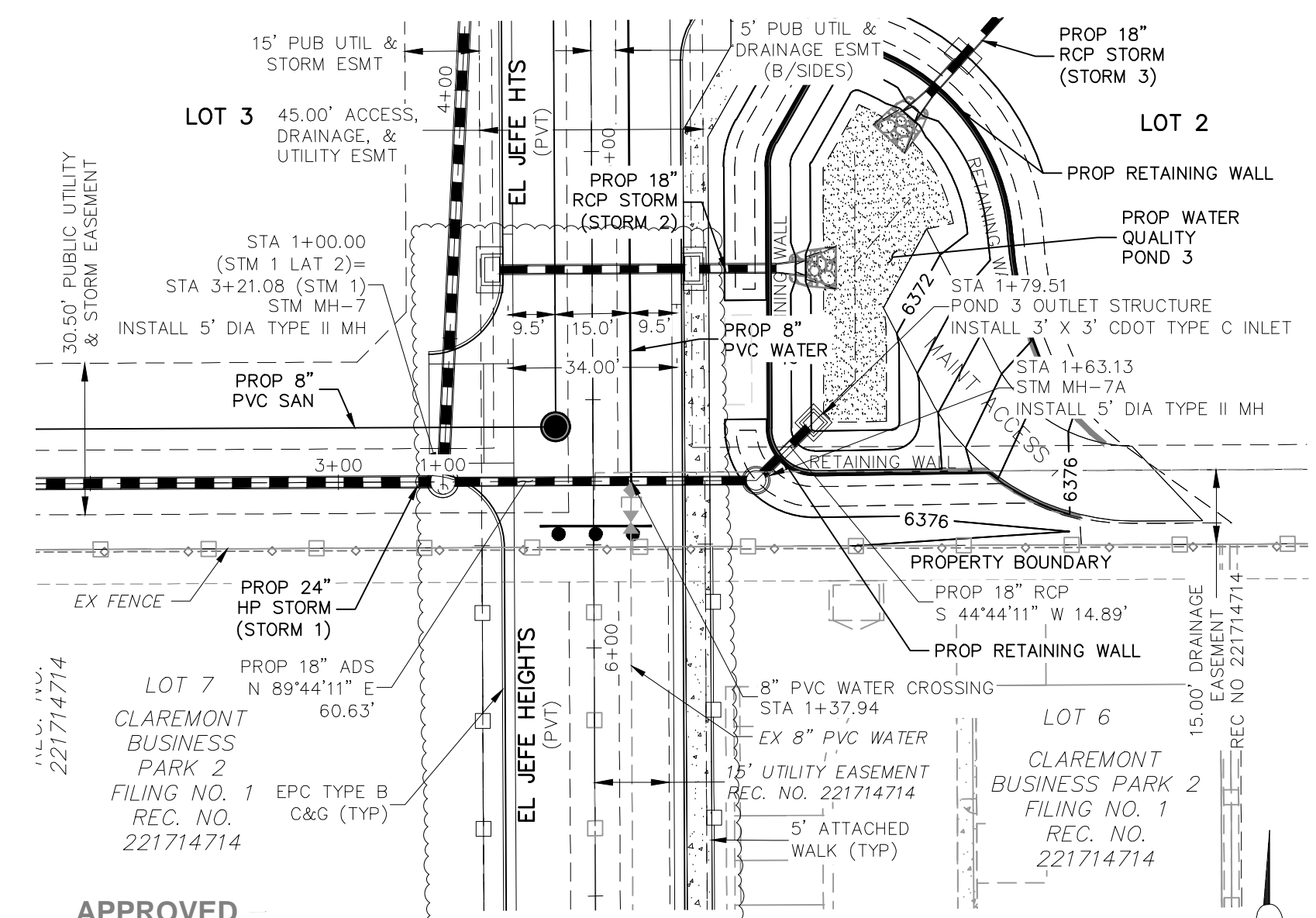
REVISED: 02/14/24
BY: GW
DESCRIPTION: REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT

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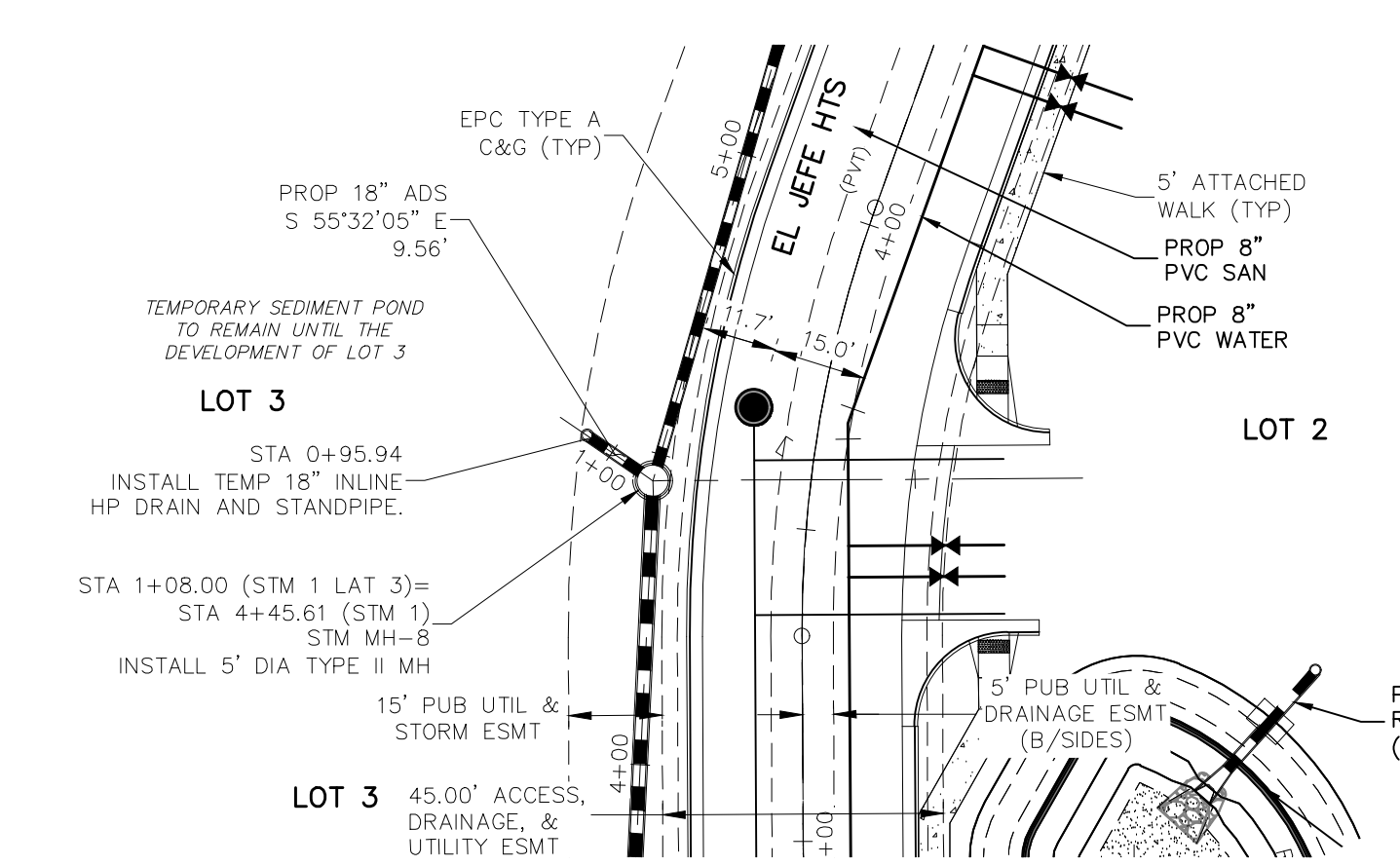
CAUTION



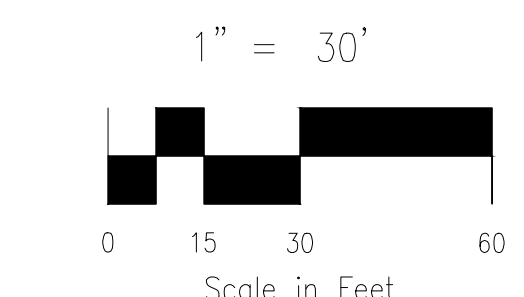
STORM 1 LAT-1 (PRIVATE)
STA 1+00.00 TO STA 1+22.89



STORM 1 LAT-2 (PRIVATE)
STA 1+00.00 TO STA 1+79.51



STORM 1 LAT-3 (PRIVATE)
STA 0+95.94 TO STA 1+08.00



NOTE:

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- GAS LINE NOT LOCATED, LOCATION TO BE DETERMINED BY CONTRACTOR

ABBREVIATION LEGEND

C&G	CURB AND GUTTER
CL	CENTERLINE
CONST	CONSTRUCTION
EL	ELEVATION
EX	EXISTING
LT	LEFT
N	NORTH
NTS	NOT TO SCALE
PUB	PUBLIC
PVT	PRIVATE
PROP	PROPOSED
RT	RIGHT
S	SOUTH
SAN	SANITARY SEWER
SLV	SLEEVE
SRV	SERVICE
STA	STATION
STM	STORM SEWER
W	WEST
WTR	WATER

APPROVED
Engineering Department
05/23/2024 1:27:32 PM
dotdurham
EPC Planning & Community
Development Department

6380	EXIST GRADE CL STORM SEWER	6380	PROPOSED GRADE CL STORM SEWER	6380	EXIST GRADE CL STORM SEWER	6380	PROPOSED GRADE CL STORM SEWER
6375	EXIST GRADE CL STORM SEWER	6375	PROPOSED GRADE CL STORM SEWER	6375	EXIST GRADE CL STORM SEWER	6375	PROPOSED GRADE CL STORM SEWER
6370	EXIST GRADE CL STORM SEWER	6370	PROPOSED GRADE CL STORM SEWER	6370	EXIST GRADE CL STORM SEWER	6370	PROPOSED GRADE CL STORM SEWER
6365	EXIST GRADE CL STORM SEWER	6365	PROPOSED GRADE CL STORM SEWER	6365	EXIST GRADE CL STORM SEWER	6365	PROPOSED GRADE CL STORM SEWER

STORM 1 LAT-1

STORM 1 LAT-2

STORM 1 LAT-3

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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CLAREMONT BUSINESS PARK 2 FIL. NO. 2

STORM SEWER PLAN & PROFILE

PROJECT NO. 10-020
DATE: 10/03/23
SCALE: HORIZONTAL: 1"=30' VERTICAL: 1"=3'
DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS

212 N. WASHINGTON AVE. STE 305
COLORADO SPRINGS CO 80903
PHONE: 719.555.5466

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
CIVIL CONSULTANTS, INC.

REGISTERED PROFESSIONAL ENGINEER
37160
05-14-24

REVISIONS:
NO. DATE BY DESCRIPTION
1 02/14/24 GW REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT

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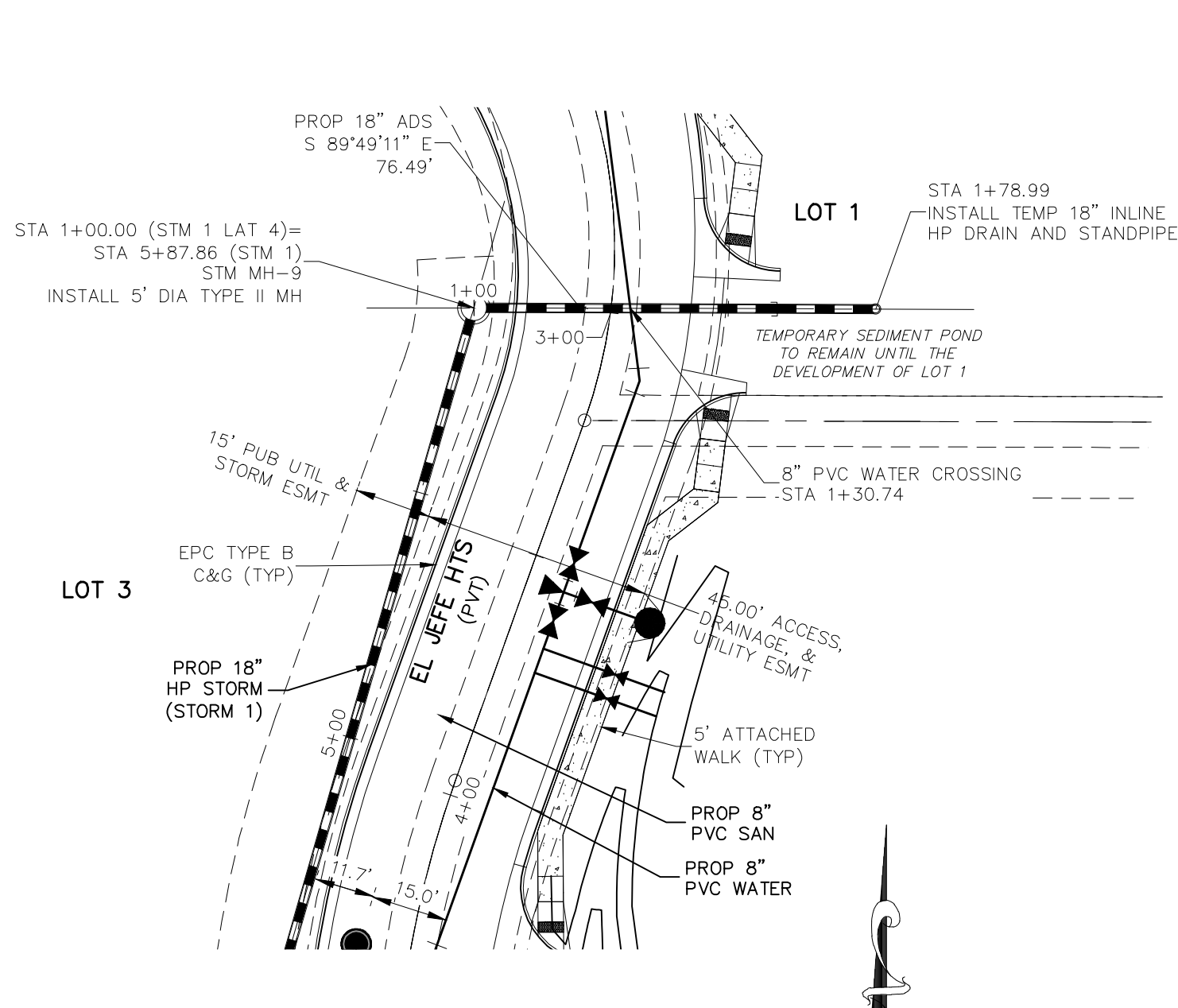


NOTE:

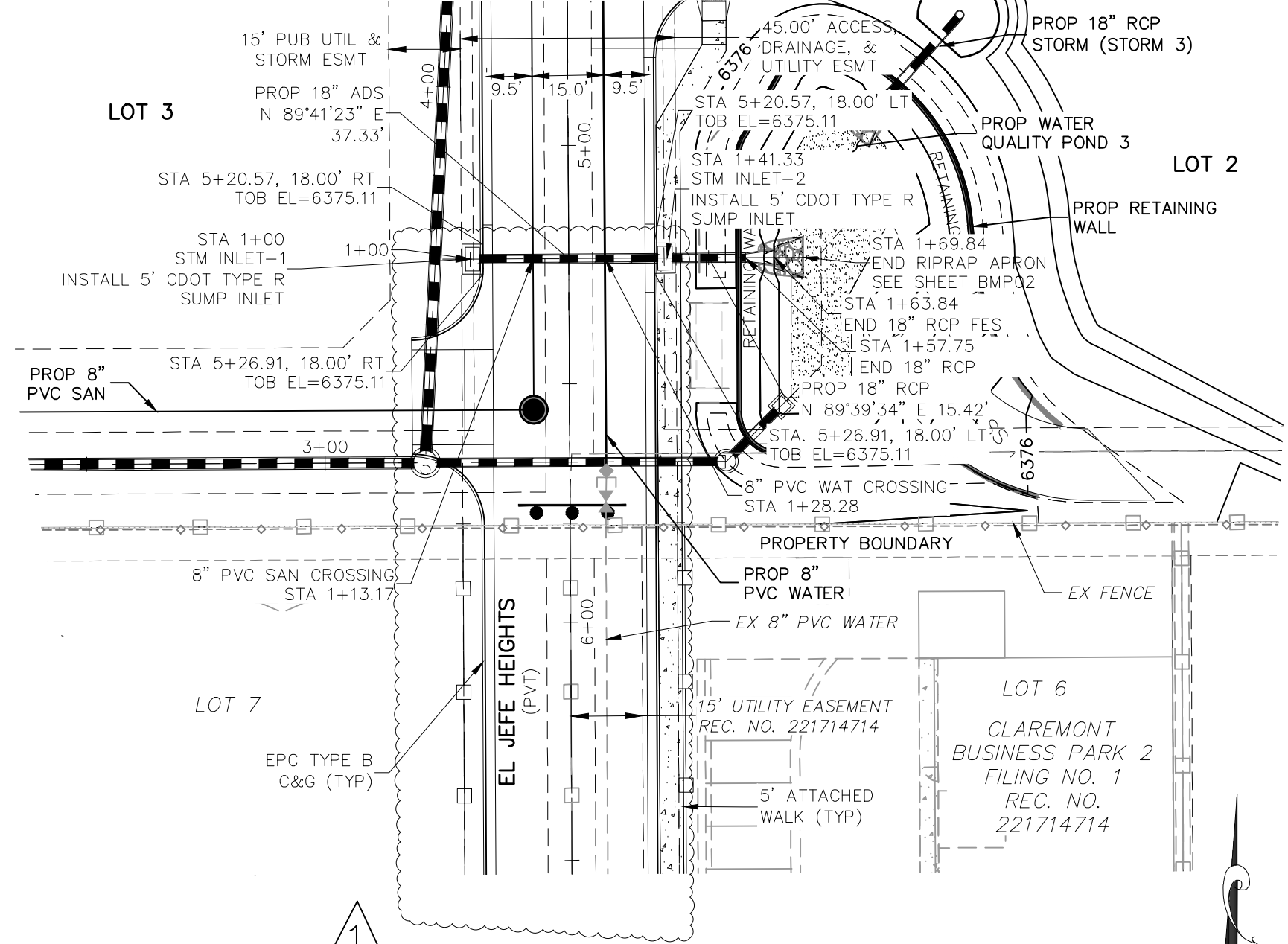
1. ALL STORM SEWER CONSTRUCTED WITH THESE PLANS SHALL BE CONSIDERED PRIVATE.
2. GAS LINE NOT LOCATED, LOCATION TO BE DETERMINED BY CONTRACTOR.
3. STATIONING AT CORNER OF INLETS (TOB) REFERS TO CENTERLINE STATIONING.

ABBREVIATION LEGEND

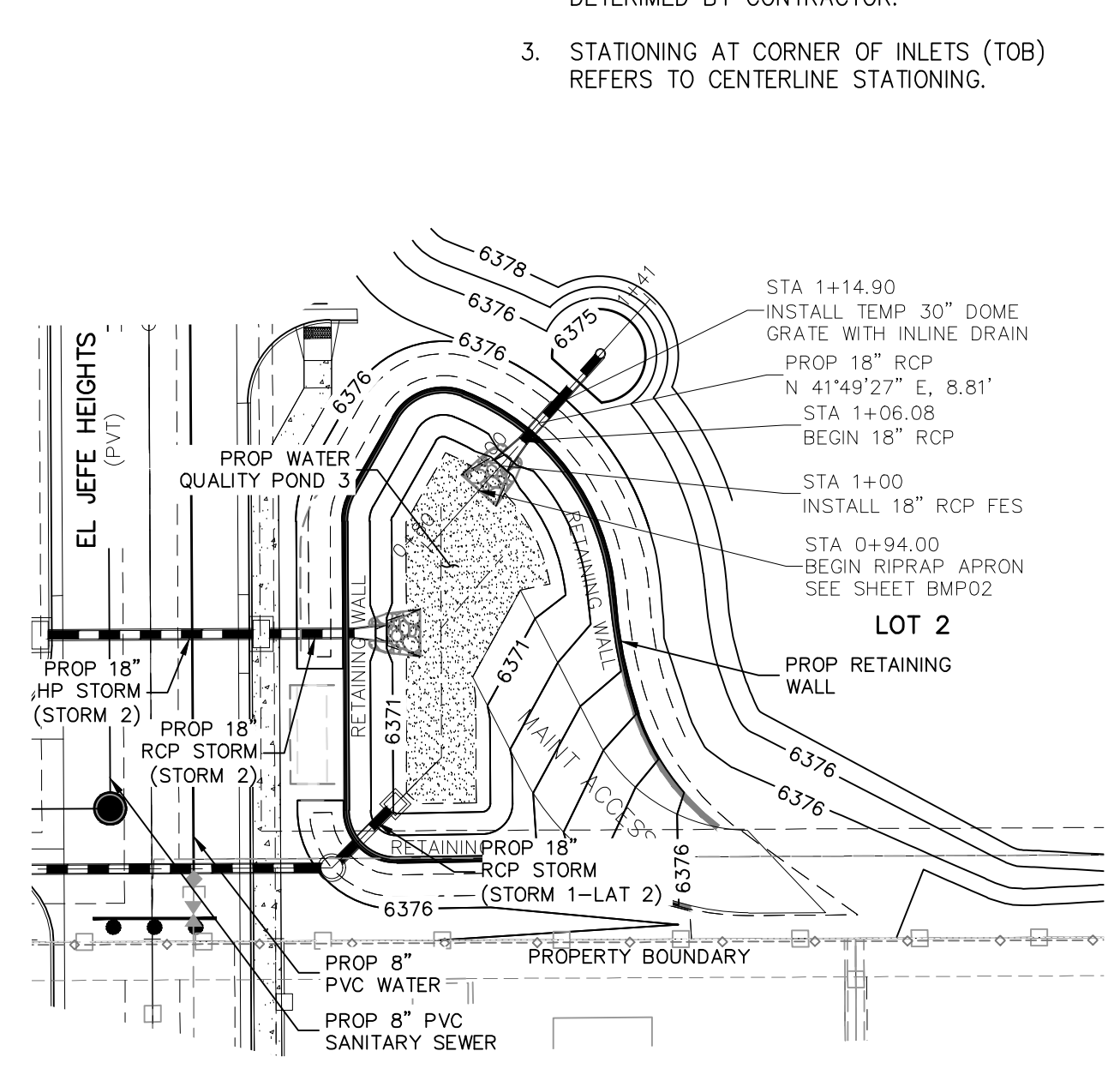
C&G	CURB AND GUTTER
CL	CENTERLINE
CONST	CONSTRUCTION
EL	ELEVATION
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PUB	PUBLIC
PVT	PRIVATE
PROP	PROPOSED
RT	RIGHT
S	SOUTH
SAN	SANITARY SEWER
SLV	SLEEVE
SRV	SERVICE
STA	STATION
STM	STORM SEWER
W	WEST
WTR	WATER
TOB	TOP OF BOX AT CORNER OF INLET



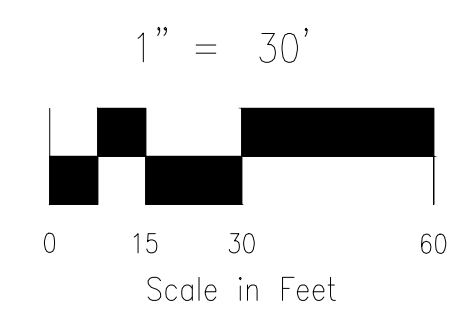
STORM 1 LAT-4 (PRIVATE)
STA 1+00.00 TO STA 1+78.99



STORM 2 (PRIVATE)
STA 1+00.00 TO STA 1+69.84



STORM 3 (PRIVATE)
STA 0+94.00 TO STA 1+30.08



Station	Storm 1 Profile	Storm 2 Profile	Storm 3 Profile
6380	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER
6375	100 YEAR HGL, 76.49' LF - 18" ADS @ 0.50% Q100=5.7 CFS	100 YEAR HGL, 15.42' LF - 18" RCP @ 0.88% Q100=3.9 CFS	100 YEAR HGL, 21.26' LF - 18" RCP @ 1.00% Q100=11.6 CFS
6370	PROPOSED GRADE CL STORM SEWER	PROPOSED GRADE CL STORM SEWER, 37.33' LF - 18" ADS @ 0.50% Q100=1.7 CFS	PROPOSED GRADE CL STORM SEWER, 6373.36 100 YR WSE
6365	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER	EXIST GRADE CL STORM SEWER, PROPOSED GRADE CL STORM SEWER

STORM 1 LAT-4

STORM 2

STORM 3

CLAREMONT BUSINESS PARK 2 FIL. NO. 2
STORM SEWER PLAN & PROFILE

PROJECT NO. 10-020
DATE: 10/03/23
SCALE: HORIZONTAL: 1"=30' VERTICAL: 1"=3'
DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS

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

VIRGIL A. SANCHEZ, COLORADO P.E. NO. 371160

FOR AND ON BEHALF OF CIVIL CONSULTANTS, INC.

REVISIONS:
NO. DATE BY DESCRIPTION
1 02/14/24 GW REVISE EL JEFE HEIGHTS ROAD CONNECTION TO GARY WATSON PT

REVISION 1 INVOLVES THE ADDITION OF A BARRICADE AT THE SOUTHERN BOUNDARY WITHIN EL JEFE HTS. FURTHERMORE, THE CONNECTION FROM THE PROPERTY'S SOUTHERN BOUNDARY TO GARY WATSON, PT. SHALL NOT BE CONSTRUCTED AT THIS TIME. INSTEAD, IT HAS BEEN IDENTIFIED AS A POTENTIAL FUTURE CONNECTION THAT MAY BE BUILT IF EL PASO COUNTY DEEMS NECESSARY. ADDITIONALLY, A CURB RETURN HAS BEEN ADDED TO LOT 3 FOR TEMPORARY USE AS A TURNAROUND UNTIL LOT 3 DEVELOPS, WHERE A PERMANENT TURNAROUND SHALL BE PROVIDED.

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CAUTION

STANDARD CONSTRUCTION NOTES:

- 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 LOCATION 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 (SWMP), 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 TIME INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY ENGINEERING CRITERIA MANUAL VOLUMES 1 AND 2.
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - CDOT M&S STANDARDS.
- IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ACCURACY SHOW EXISTING CONDITION BOTH ONSITE AND OFFSITE ON THE CONSTRUCTION PLANS. ANY MODIFICATION NECESSARY DUE TO CONFLICT OMISSIONS OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPERS RESPONSIBILITY TO RECTIFY.
- IT IS THE CONTRACTORS 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 STORM WATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, US ARMY CORPS OF ENGINEER ISSUED 401 AND/OR 404 PERMITS AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- ANY TEMPORARY SIGNAGE AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOW AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFFSITE DISTURBANCE GRADING, OR CONSTRUCTION.

STORM SEWER GENERAL NOTES

- ALL STATIONING IS ALONG STORM SEWER CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE INVERT UNLESS OTHERWISE INDICATED.
- ALL STORM SEWER BENDS AND WYES SHOWN ON THE PLAN SHALL BE PREFABRICATED.
- JOINTS SHALL BE IN ACCORDANCE WITH ASTM C443 "STANDARD SPECIFICATIONS FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKET." IN NO CASE SHALL THE MAXIMUM JOINT OPENING FOR STRAIGHT ALIGNMENT EXCEED 1 INCH OR ONE AND ONE-HALF INCH ON CURVED ALIGNMENT.
- INLET DIMENSIONS SHOWN ON PLANS REFER TO DISTANCES FROM INSIDE FACES OF BOX BETWEEN THE WIDTHS AND LENGTHS.
- ALL REINFORCED CONCRETE PIPE STORM SEWER SHALL BE A MINIMUM OF CLASS III. ALL POLYPROPYLENE PIPE SHALL BE ADS N-12 DUAL WALL PIPE OR APPROVED EQUAL. SPECIFIC SEGMENTS OF STORM SEWER SHALL BE REQUIRED TO BE CONSTRUCTED OF A MINIMUM OF 5000 PSI CONCRETE DUE TO EXCESSIVE VELOCITIES. REFER TO ADDITIONAL NOTES WITHIN CONSTRUCTION PLANS.
- SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
- THE MH RING (FRAME) SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA.
- PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
- CAST IN PLACE MANHOLES SHALL BE CLASS B CONCRETE.
- STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI. VERTICAL STEEL SHALL BE PLACED AT 1/4 OF WALL. ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
- FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
- STUB-OUTS SHALL EXTEND 4 FT MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
- CHECK WITH THE LOCAL GOVERNMENT AUTHORITY FOR ANY ADDITIONAL STORM SEWER SPECIFICATIONS, DETAILS, OR REGULATIONS.
- THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURES TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

RIPRAP NOTES:

- RIPRAP USED SHALL BE THE TYPE DESIGNATED ON THE DRAWINGS AND SHALL CONFIRM TO TABLE 1.
- THE RIPRAP DESIGNATION AND TOTAL THICKNESS OF RIPRAP SHALL BE AS SHOWN THE DRAWINGS. THE MAXIMUM STONE SIZE SHALL NOT BE LARGER THAN THE THICKNESS OF THE RIPRAP.
- NEITHER WIDTH NOR THICKNESS OF A SINGLE STONE OF RIPRAP SHALL BE LESS THAN ONE-THIRD (1/3) OF ITS LENGTH
- THE SPECIFIC GRAVITY OF THE RIPRAP SHALL BE TWO AND ONE HALF (2.5) OR GREATER.
- RIPRAP SPECIFIC GRAVITY SHALL BE ACCORDANCE THE BULK-SATURATED, SURFACE-DRY BASIS, IN ACCORDANCE WITH AASHTO T85.
- THE BULK DENSITY FROM THE RIPRAP SHALL BE 1.3 TON/CY OR GREATER.
- THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN FORTY PERCENT (40%) AFTER FIVE HUNDRED (500) REVOLUTIONS WHEN TESTED IN ACCORDANCE WITH AASHTO T96.
- THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN TEN PERCENT (10%) AFTER FIVE (5) CYCLES WHEN TESTED IN ACCORDANCE WITH AASHTO T104 FOR LEDGE ROCK USING SODIUM SULFATE.
- THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN TEN PERCENT (10%) AFTER TWELVE (12) CYCLES OF FREEZING AND THAWING WHEN TESTED IN ACCORDANCE WITH AASHTO T103 FOR LEDGE ROCK PROCEDURE A.
- ROCK SHALL BE FREE OF CALCITE INTRUSIONS.
- ROUND RIPRAP (RIVER ROCK) IS NOT ACCEPTABLE, UNLESS SPECIFICALLY DESIGNATE ON THE DRAWINGS.

STRUCTURAL CONCRETE NOTES:

- ALL CONSTRUCTION INVOLVING THE PLACEMENT OF STRUCTURAL CONCRETE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, AND AS SUPPLEMENTED BY THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
- STEEL REINFORCING SHALL BE GRADE 60 FOR ALL REINFORCING STEEL GREATER THAN #4. SPLICING, LAP SPLICING SHALL BE MINIMUM IN THE FOLLOWING TABLE UNLESS OTHERWISE SPECIFIED:

BAR SIZE	#4	#5	#6	#7	#8
SPLICE LENGTH	1'-9"	2'-2"	2'-7"	3'-4"	4'-3"

 ALL REINFORCING SHALL HAVE A 2-INCH MINIMUM COVER UNLESS OTHERWISE SPECIFIED. ALL REINFORCED STEEL TO BE EPOXY COATED.
- CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 4,000 PSI AT 28 DAYS. ALL CONCRETE PLACED AGAINST SOIL SHALL BE TYPE II PORTLAND CEMENT. ALL EXPOSED CORNERS SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS OTHERWISE SPECIFIED.
- EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213.
- BACKFILL AGAINST STRUCTURES SHALL NOT COMMENCE UNTIL ALL SUPPORTING DIAPHRAGMS ARE IN PLACE AND CONCRETE HAS OBTAINED ITS FULL SEVEN DAY STRENGTH. BACKFILL SHALL BE PLACED EQUALLY ON EACH SIDE OF RETAINING WALL STRUCTURES AND CUTOFF WALLS UNTIL THE FINAL GRADE IS REACHED.
- FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER WITH A 24-HOUR MINIMUM NOTIFICATION FOR SOIL AND/OR CONCRETE TESTING. PLACEMENT OF CONCRETE IN THE ABSENCE OF TESTING SHALL BE COMPLETED AT THE SOLE RISK OF THE CONTRACTOR.
- PRIOR TO THE PLACEMENT OF CONCRETE IN AREAS WHERE SOIL IS PRESENT, THE SOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6-INCHES. THE MOISTURE CONTENT SHALL BE ADJUSTED TO WITHIN PLUS OR MINUS 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION (AASHTO-T-180).

ABBREVIATIONS

EC --- EPOXY COATED O.F. --- OUTSIDE FACE E.F. --- EACH FACE E.W. --- EACH WAY I.F. --- INSIDE FACE N.F. --- NEAR FACE
T.O.C. --- TOP OF CONCRETE B.O.C. --- BOTTOM OF CONCRETE CONT. --- CONTINUOUS

ADS, Inc. Drainage Handbook Specifications • 1-22

ADS N-12® HP 12" - 60" PIPE SPECIFICATION

Scope
This specification describes 12- through 60-inch (300 to 1500 mm) ADS N-12 HP pipe for use in gravity-flow storm drainage applications.

Pipe Requirements

- 12- through 30-inch (300 to 750 mm) pipe shall have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2736 and AASHTO MP-21-11.
- 36- through 60-inch (900 to 1500 mm) pipe shall have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2881 and AASHTO MP-21-11
- Manning's "n" value for use in design shall be 0.012

Joint Performance
Pipe shall be joined with a gasketed integral bell & spigot joint meeting the requirements of ASTM F2736 and F2881, for the respective diameters.

12- through 60-inch (300 to 1500 mm) shall be watertight according to the requirements of ASTM D3212. Spigots shall have gaskets meeting the requirements of ASTM F477. Gasket shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

12- through 60-inch (300 to 1500 mm) diameters shall have a reinforced bell with a polymer composite band installed by the manufacturer.

Fittings
Fittings shall conform to ASTM F2736, ASTM F2881 and AASHTO MP-21-11, for the respective diameters. Bell & spigot connections meeting the requirements of ASTM F477. Gasket shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

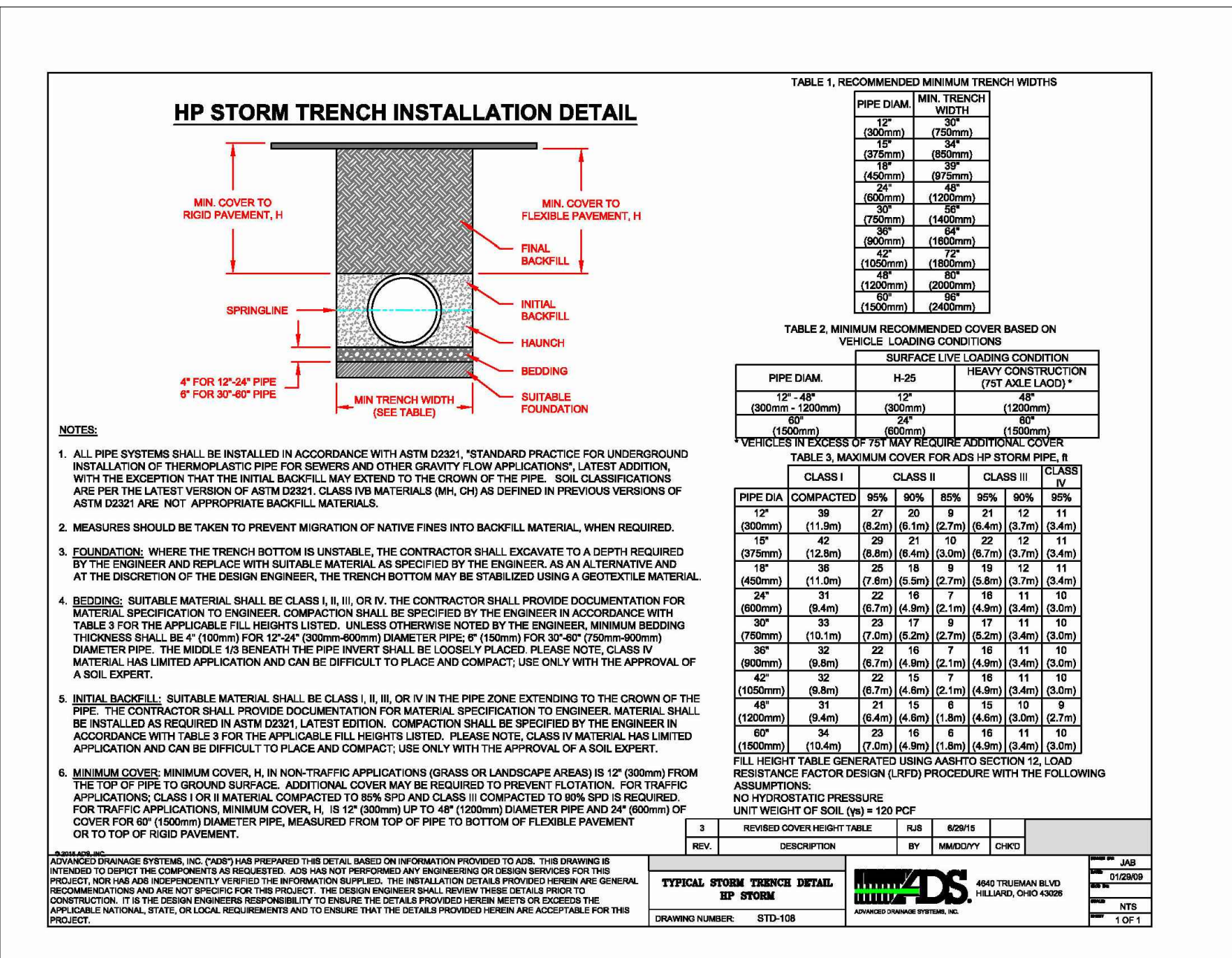
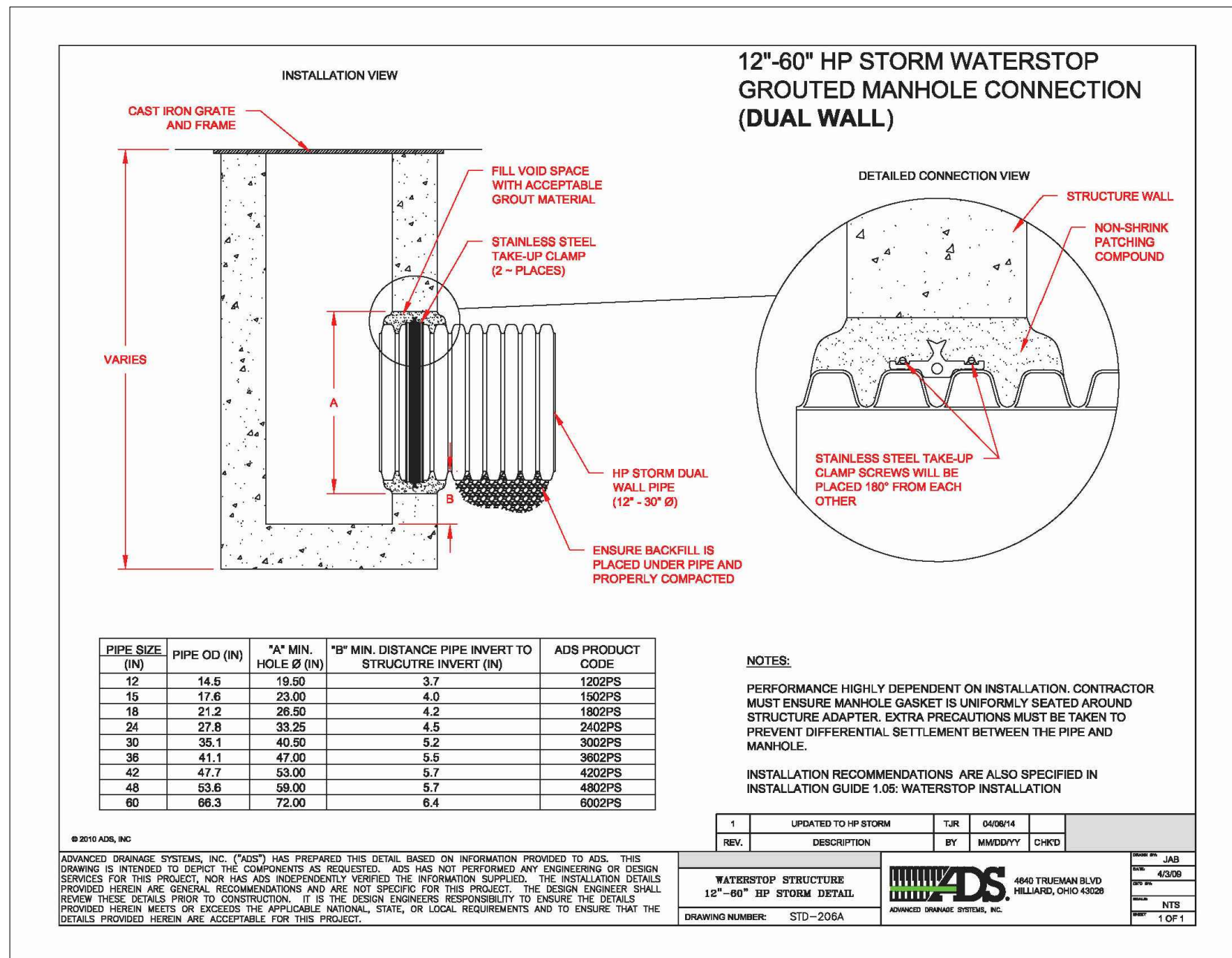
Field Pipe and Joint Performance
To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

Material Properties
Polypropylene compound for pipe and fitting production shall be impact modified copolymer meeting the material requirements of ASTM F2736, Section 4, ASTM F2881, Section 5 and AASHTO MP-21-11, Section 6.1, for the respective diameters.

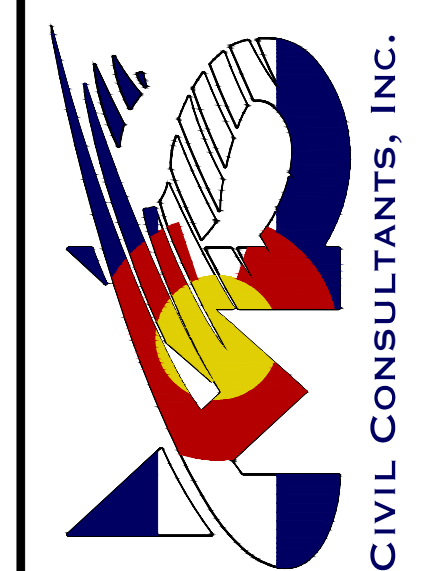
Installation
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 12- through 48-inch (300 to 1200 mm) diameters shall be one foot (0.3 m) and for 60-inch (1500 mm) diameters, the minimum cover shall be 2 ft (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% STD) or Class 3 (minimum 95% material). Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.04. Contact your local ADS representative or visit our website at www.ads-inc.com for a copy of the latest installation guidelines.

Pipe Size (in.)	12	15	18	24	30	36	42	48	60
Minimum Pipe Stiffness (E _s x 10 ⁶ psi)	1200	1275	1425	1875	2550	3300	4125	4950	6150
Minimum Pipe Stiffness (E _s x 10 ⁶ kN/m ²)	84.1	89.3	101.9	133.0	176.7	226.7	286.7	353.3	438.3
Minimum Pipe Stiffness (E _s x 10 ⁶ psi)	1200	1275	1425	1875	2550	3300	4125	4950	6150
Minimum Pipe Stiffness (E _s x 10 ⁶ kN/m ²)	84.1	89.3	101.9	133.0	176.7	226.7	286.7	353.3	438.3

* Minimum pipe stiffness values listed; contact a representative for maximum values



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PHONE: 719.855.5465



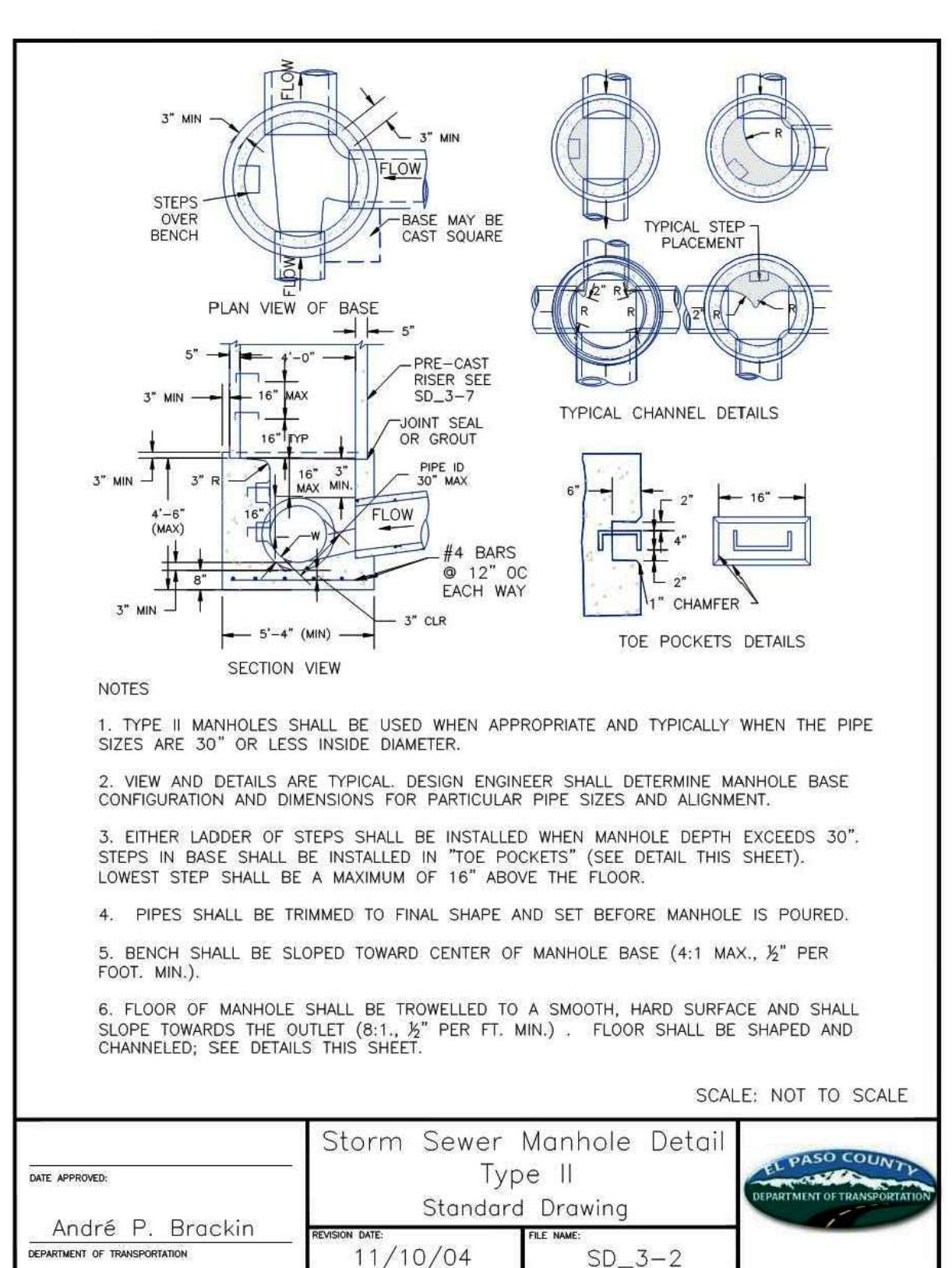
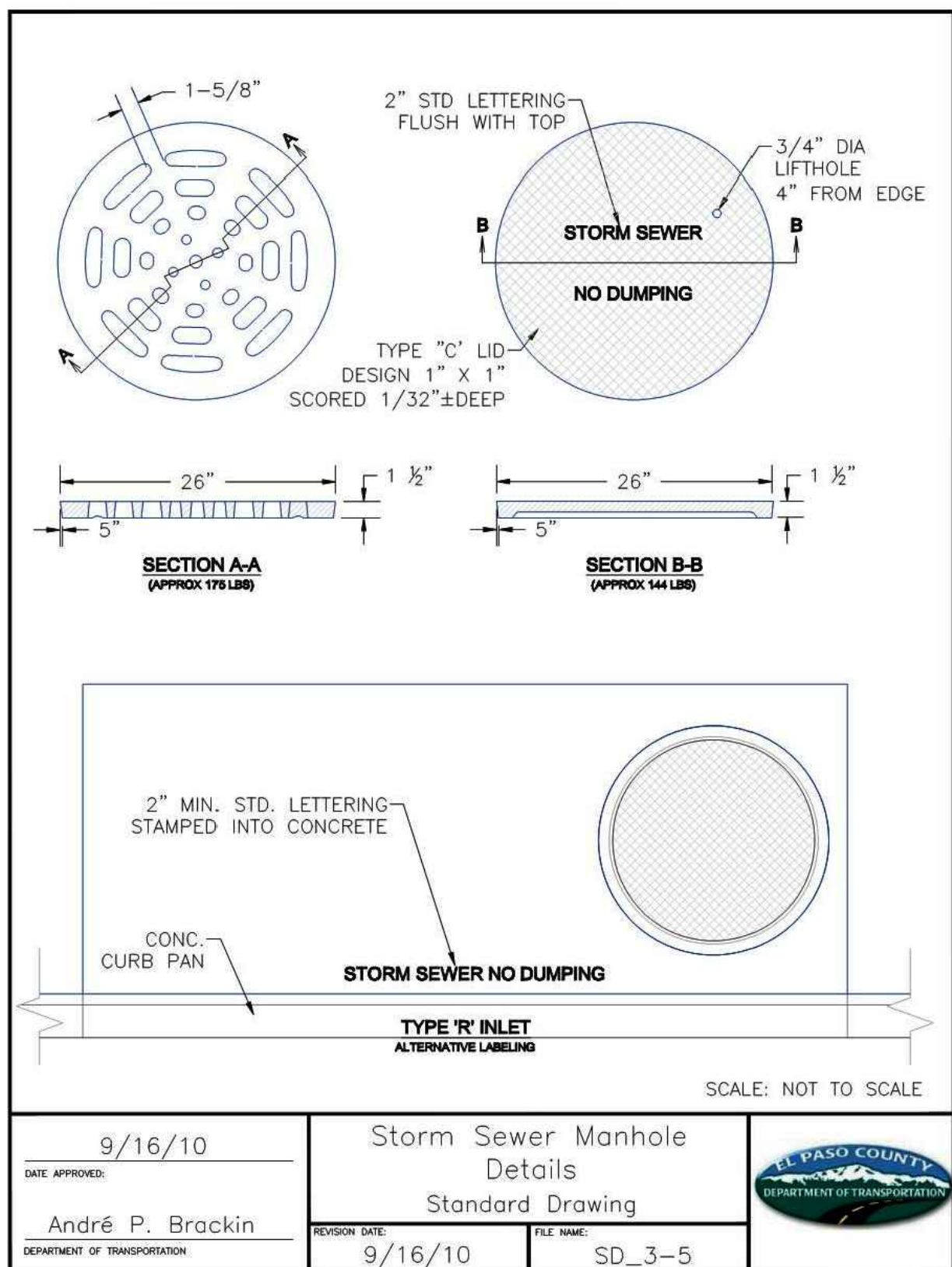
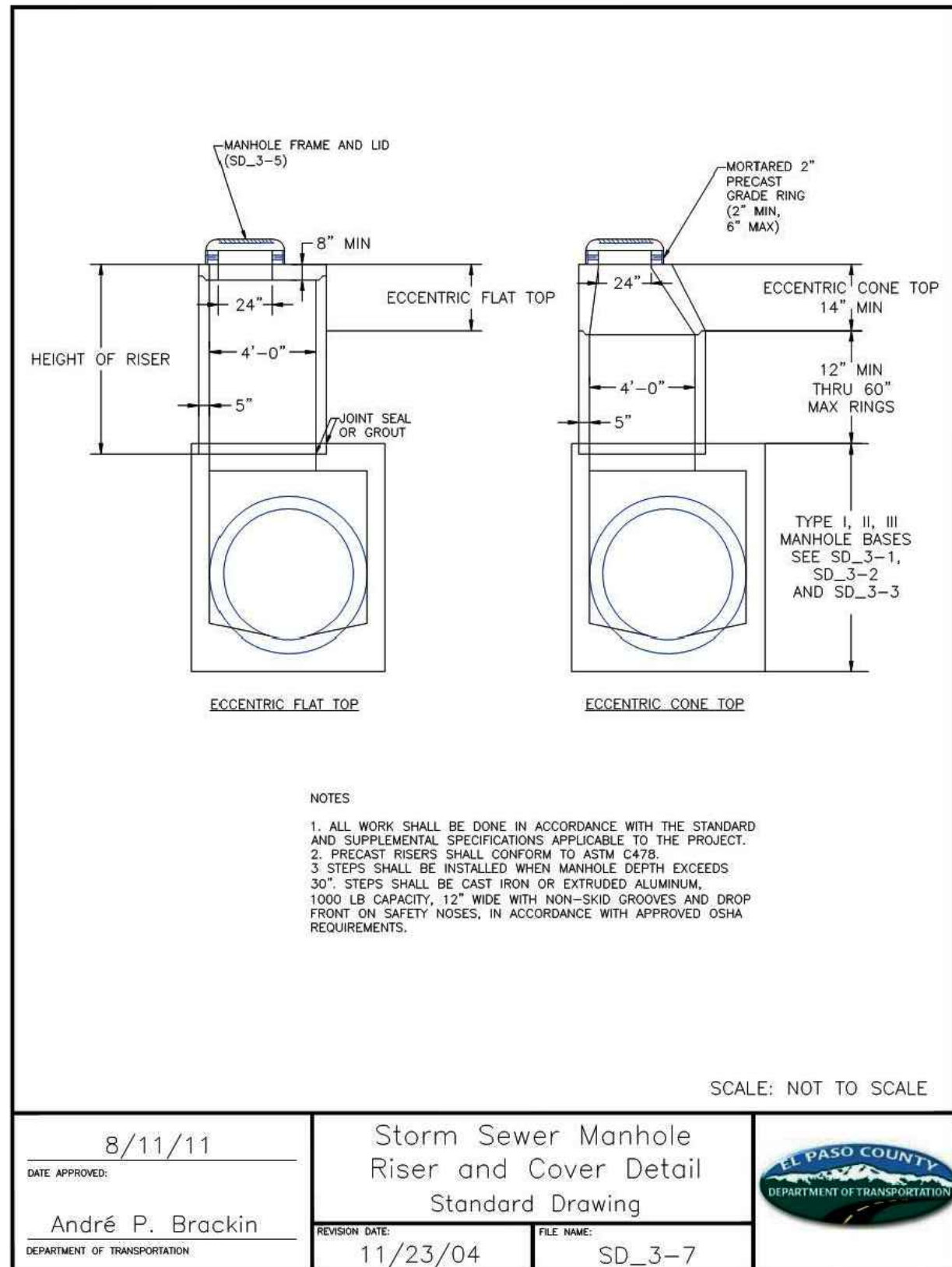
FOR AND ON BEHALF OF
ADS CIVIL CONSULTANTS, INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 37160
EXPIRES 07/29/2023

REVISIONS:

NO.	DATE	BY	DESCRIPTION

DATE: _____ BY: _____ DESCRIPTION: _____

CAUTION



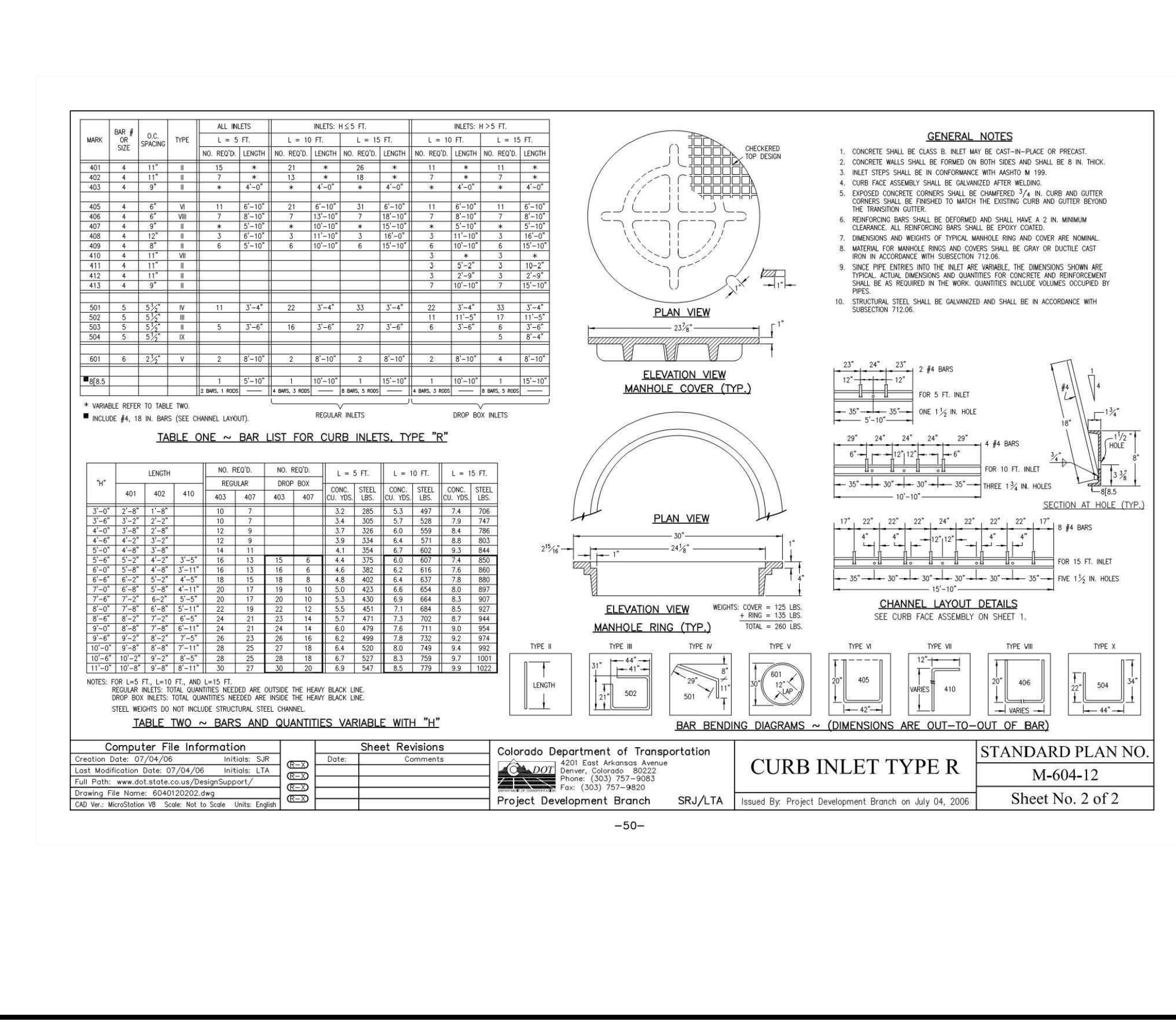
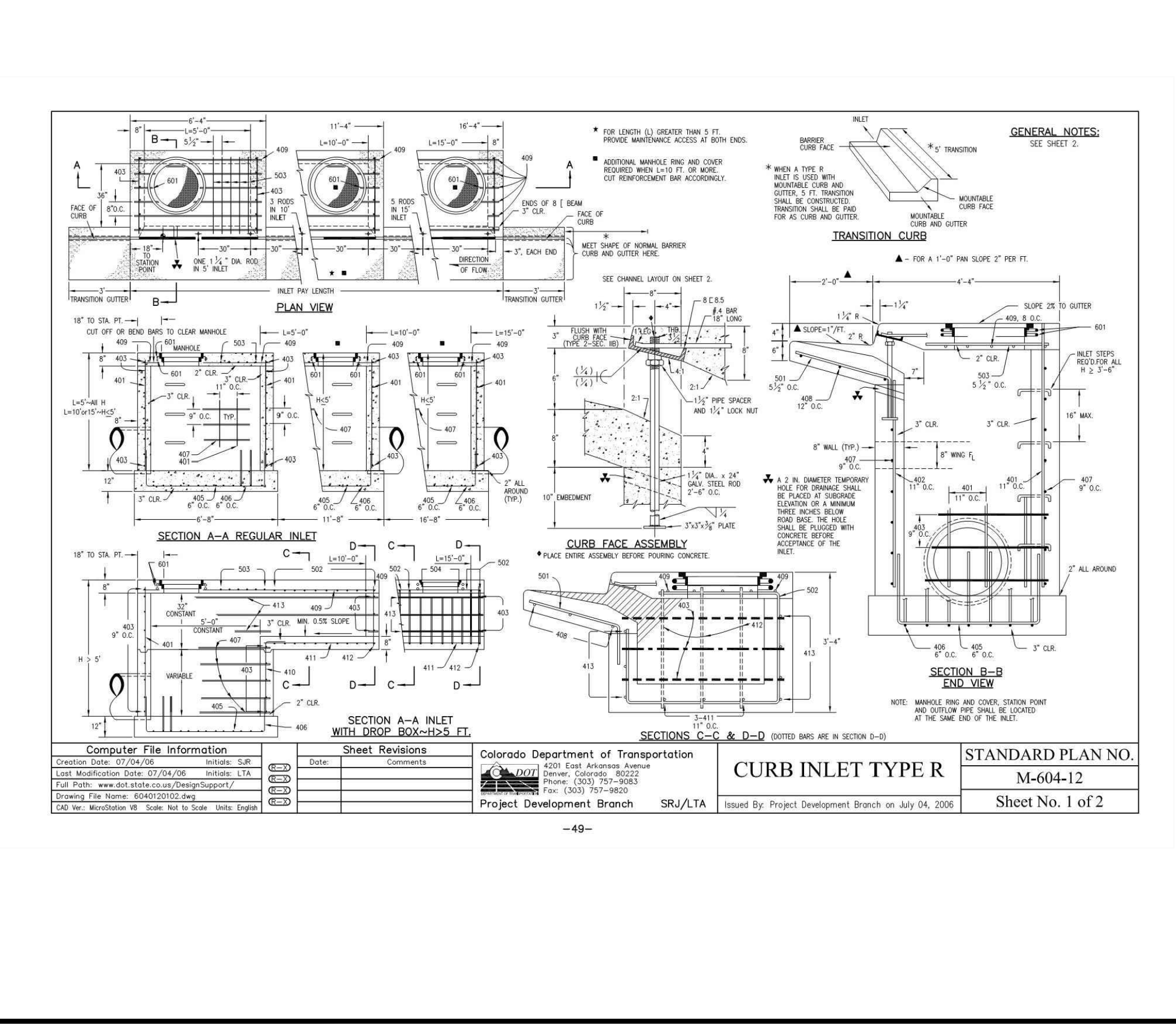
Inline Drains

HOW DO YOU BUILD A PART NUMBER?
 See page (32) for Inline Drains

Part#/Prefix	Product Description	Available Outlets
2708AG_X	8" Inline Drain	4" thru 8"
2710AG_X	10" Inline Drain	4" thru 10"
2712AG_X	12" Inline Drain	4" thru 12"
2715AG_X	15" Inline Drain	4" thru 15"
2718AG_X	18" Inline Drain	4" thru 18"
2724AG_X	24" Inline Drain	4" thru 24"
2730AG_X	30" Inline Drain	4" thru 30"

When are Inline Drains Used?

- To enter a new or existing line by means of a riser and a tee.
- At the beginning of a drain line.



Grate Options

for Inline Drains & Drain Basins

Grate Markers
 Public education and outreach is part of the NPDES requirement. Storm drain marking is an established method of involving the public and increasing community awareness about non-point source pollution.

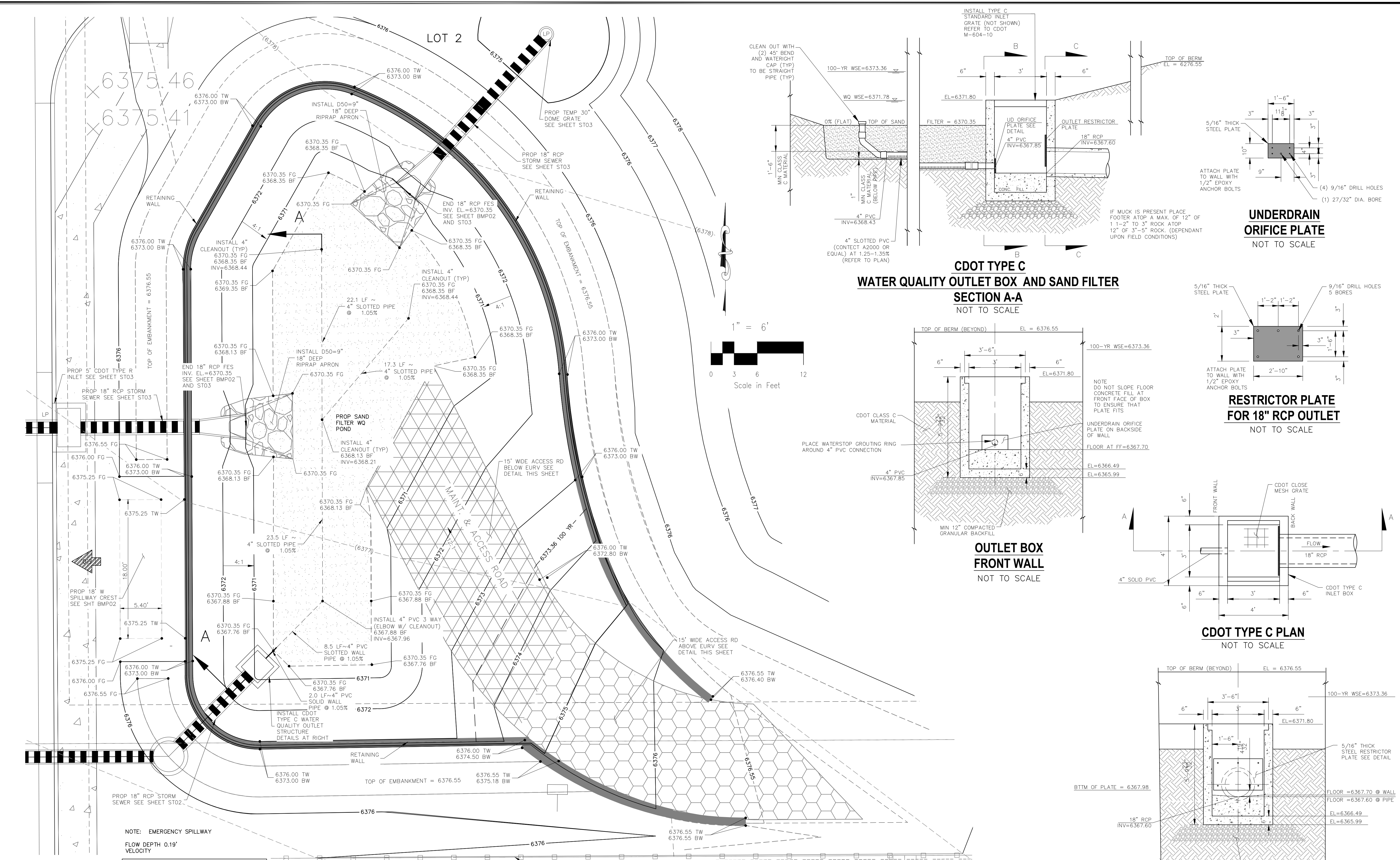
Grate Riser Extensions
 Extension rings can be used to quickly raise the grade of existing grates when resurfacing is required. Nyloplast extension rings are only to be used with Nyloplast ductile iron castings.

Size	Part #
18" Round with 2.0" Rise	2690GSEF200
24" Round with 2.0" Rise	2690GSEF200
30" Round with 2.0" Rise	2690GSEF200
18" Round with 1.5" Rise	2690GSEF150
24" Round with 1.5" Rise	2690GSEF150
30" Round with 1.5" Rise	2690GSEF150

Curbside Inlet and Road/Highway Grates

Curbside Inlet	Road & Hwy
18" Round with 2.0" Rise	2x2" Standard Grate
24" Round with 2.0" Rise	2x2" Standard Grate
30" Round with 2.0" Rise	2x2" Standard Grate
18" Round with 1.5" Rise	2x2" Standard Grate
24" Round with 1.5" Rise	2x2" Standard Grate
30" Round with 1.5" Rise	2x2" Standard Grate

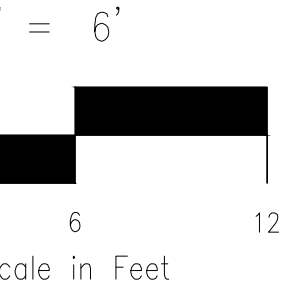
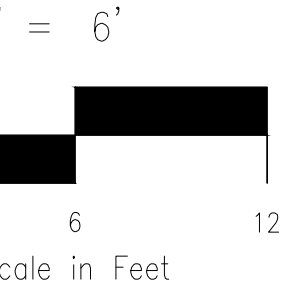
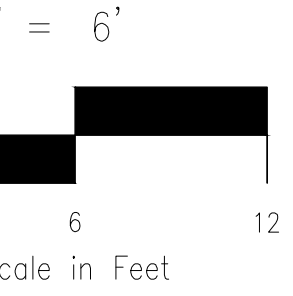
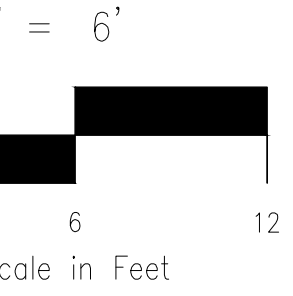
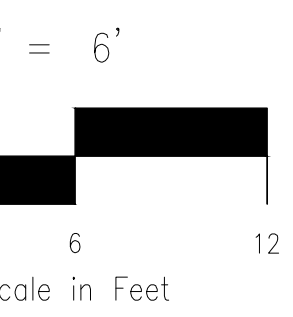
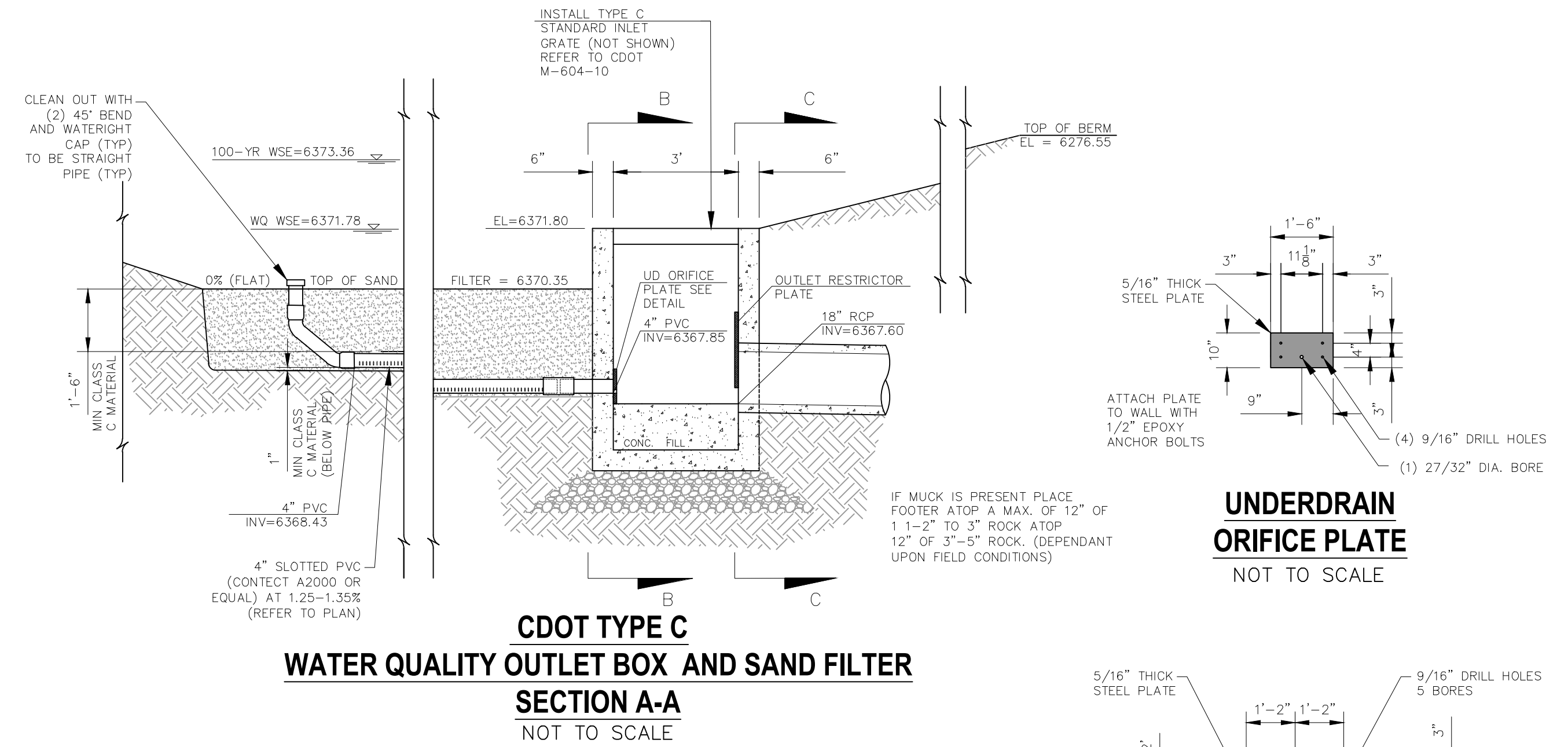
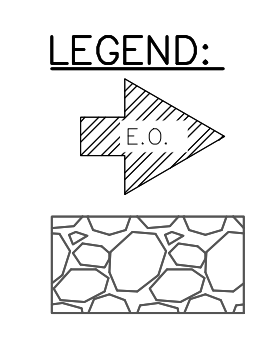
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POND 3 SAND FILTER DETENTION BASIN DATA

WQ WATER SURFACE EL = 6371.78
WQ VOLUME=0.051 AC-FT
100-YR WATER SURFACE EL=6373.36
100-YR VOLUME=0.153 AC-FT
SPILLWAY CREST EL=6375.30
TOP OF EMBANKMENT EL=6376.55
RATIONAL 100-YR INFLOW=14.8 CFS
MHFD 100-YR INFLOW = 9.0 CFS
MHFD 100-YR RELEASE = 4.0 CFS

**LOT 2 - SAND FILTER POND 3
SITE PLAN
SCALE 1"=6"**



CLAREMONT BUSINESS PARK 2 FIL. NO. 2

OUTLET STRUCTURE POND 3 DETAILS

PROJECT NO. 10-020 DATE: 10/03/23

DESIGNED BY: GW HORIZONTAL: 1"=6'

DRAWN BY: CLP VERTICAL: N/A

CHECKED BY: VAS SHEET 12 OF 14

BMP01

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

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF CIVIL CONSULTANTS, INC.

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

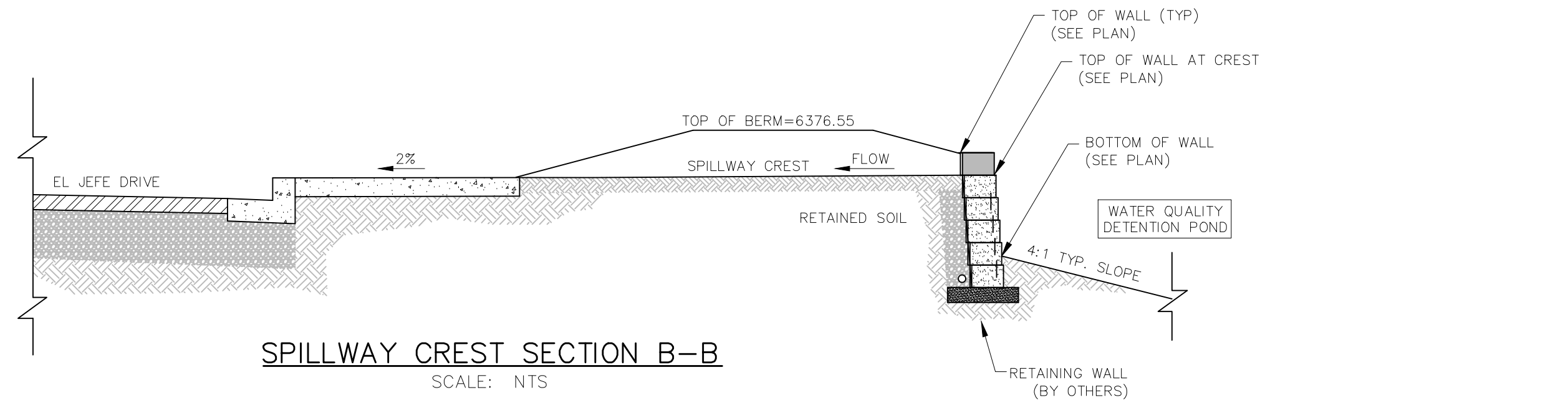
100% REGISTERED PROFESSIONAL ENGINEER

37160 10-08-23

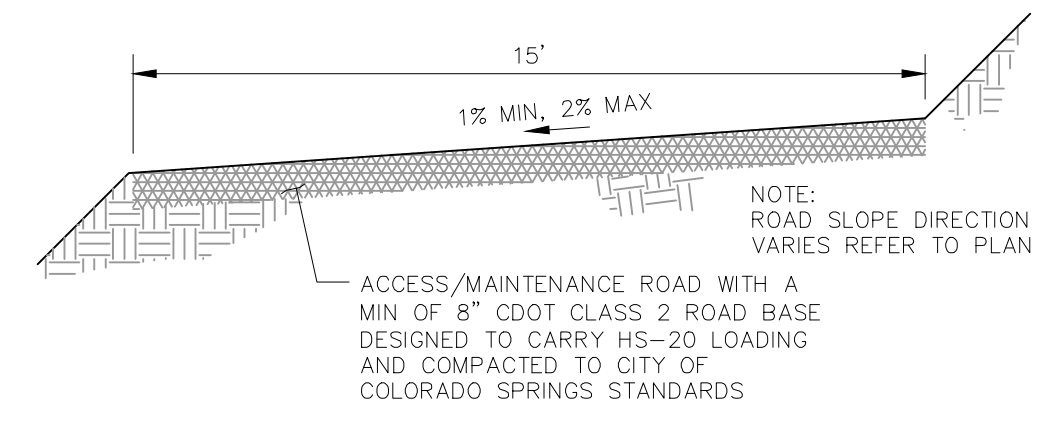
NO.	DATE	DESCRIPTION

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 PREPARE OF THESE PLANS.

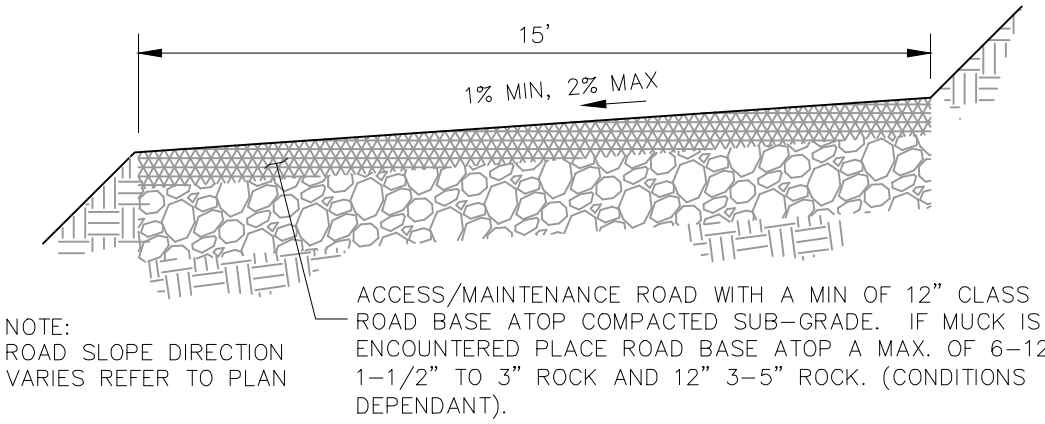
CAUTION



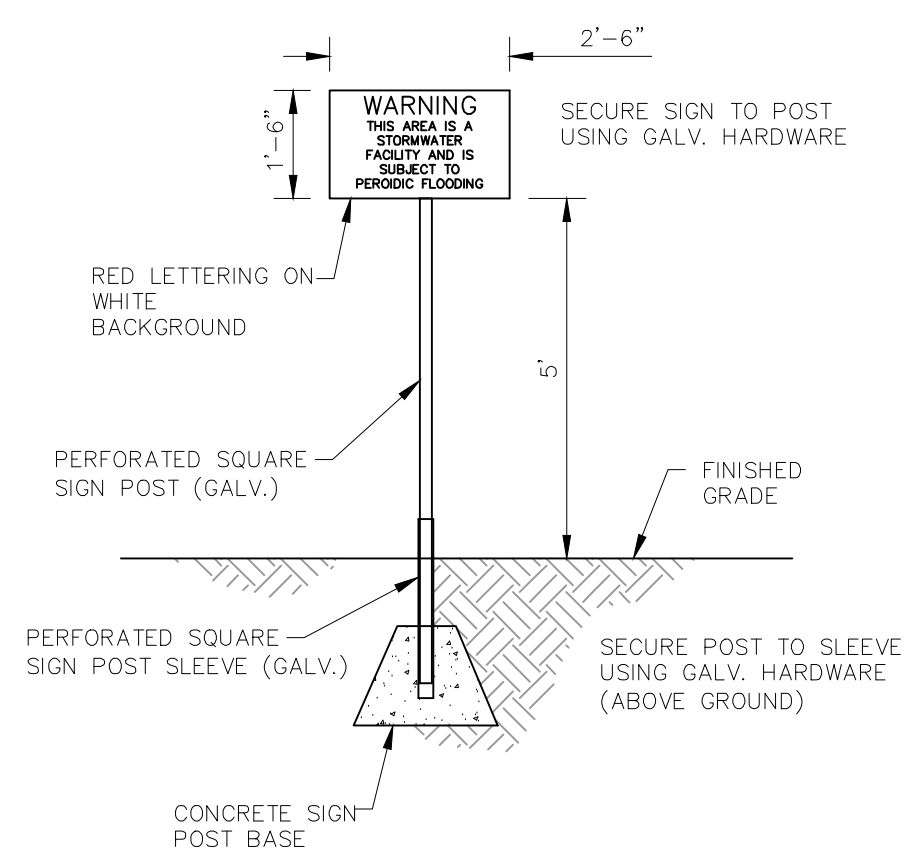
SPILLWAY CREST SECTION B-B
SCALE: NTS



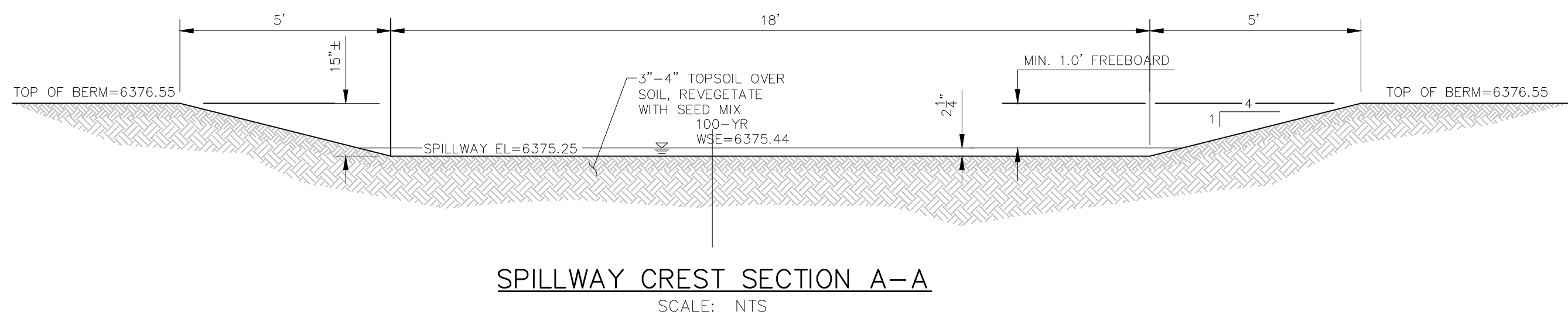
MAINTENANCE & ACCESS ROAD ABOVE EURV TYPICAL SECTION
NOT TO SCALE



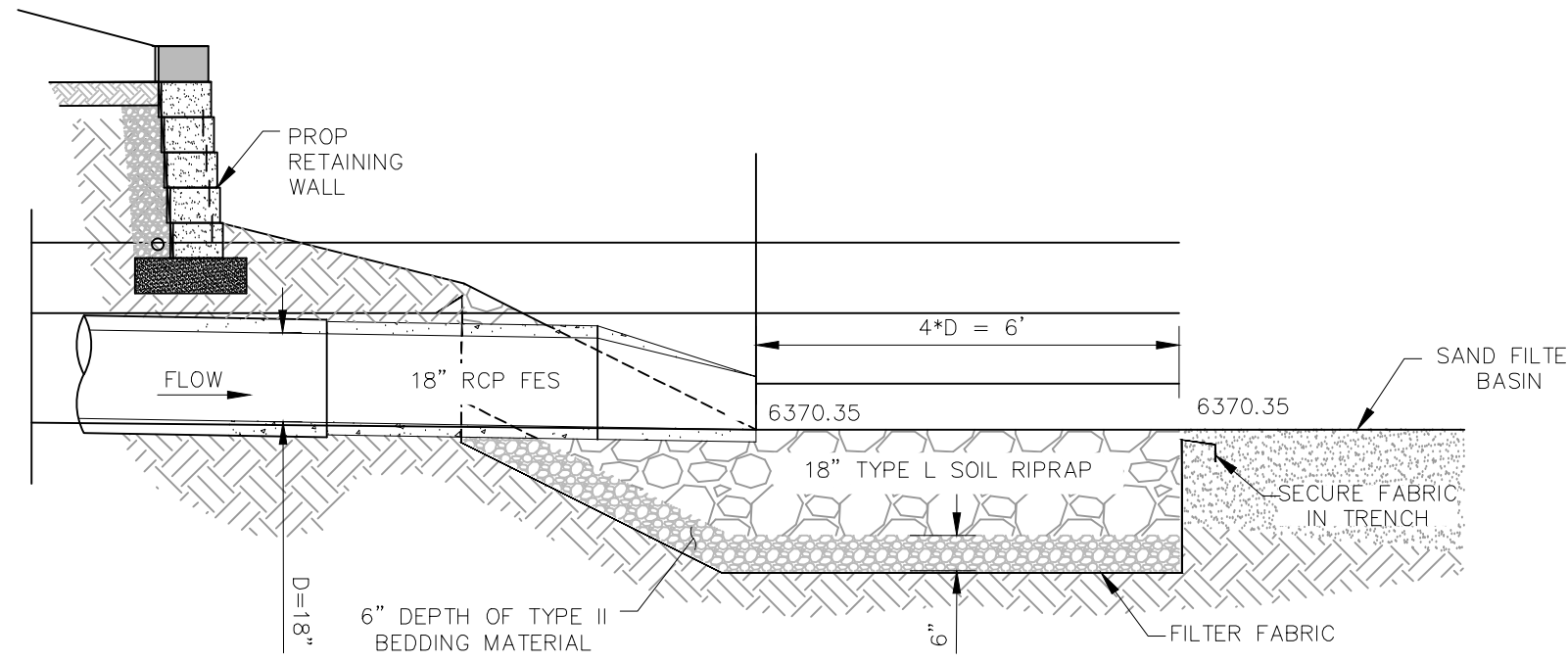
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NOT TO SCALE



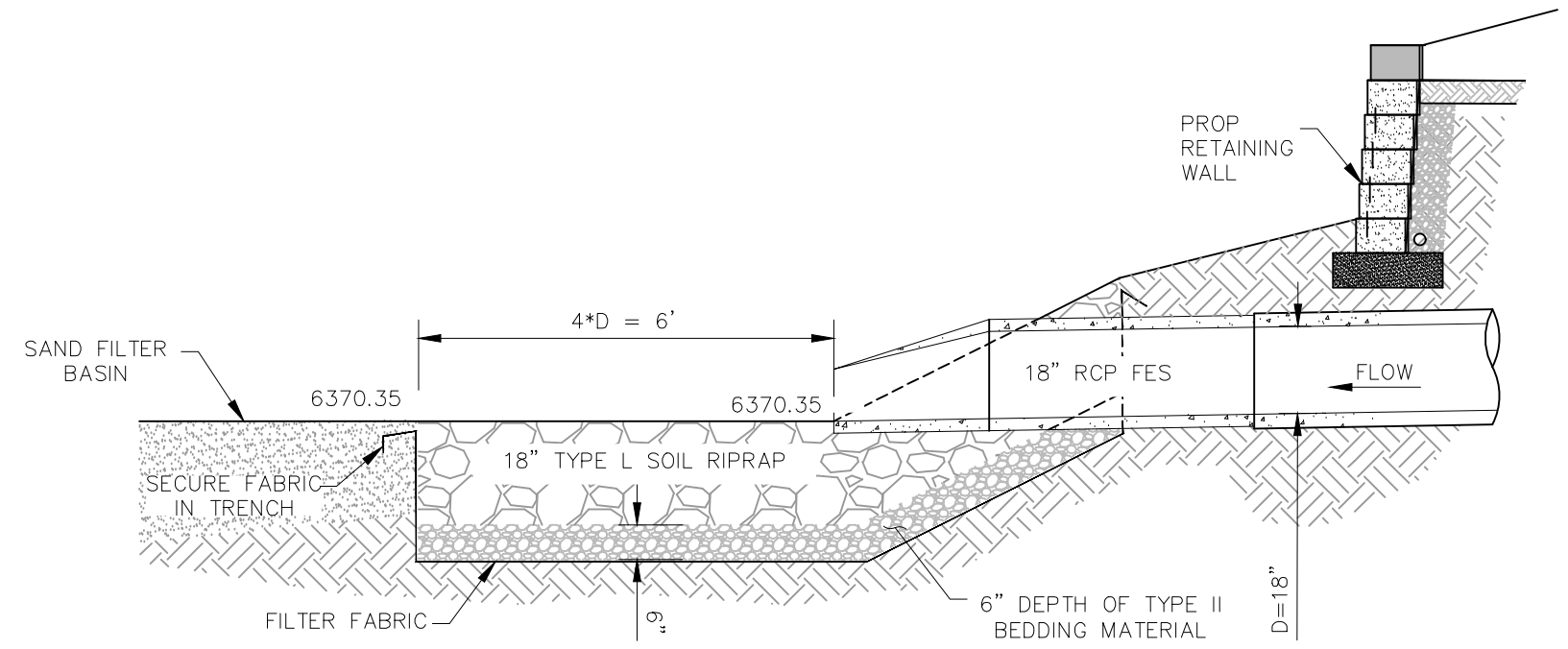
POND WARNING SIGN (3)
SCALE: 3/8" = 1'



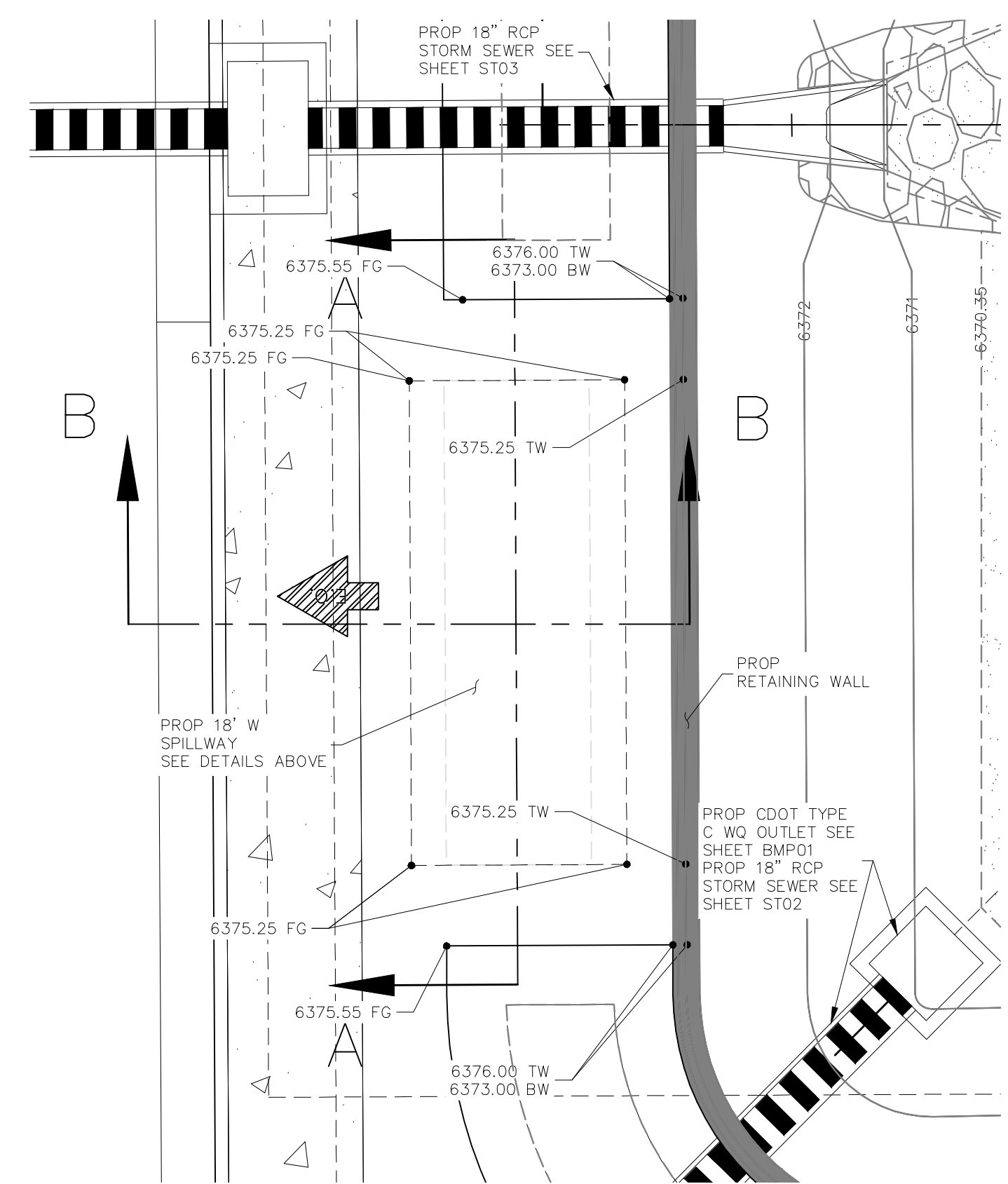
SPILLWAY CREST SECTION A-A
SCALE: NTS



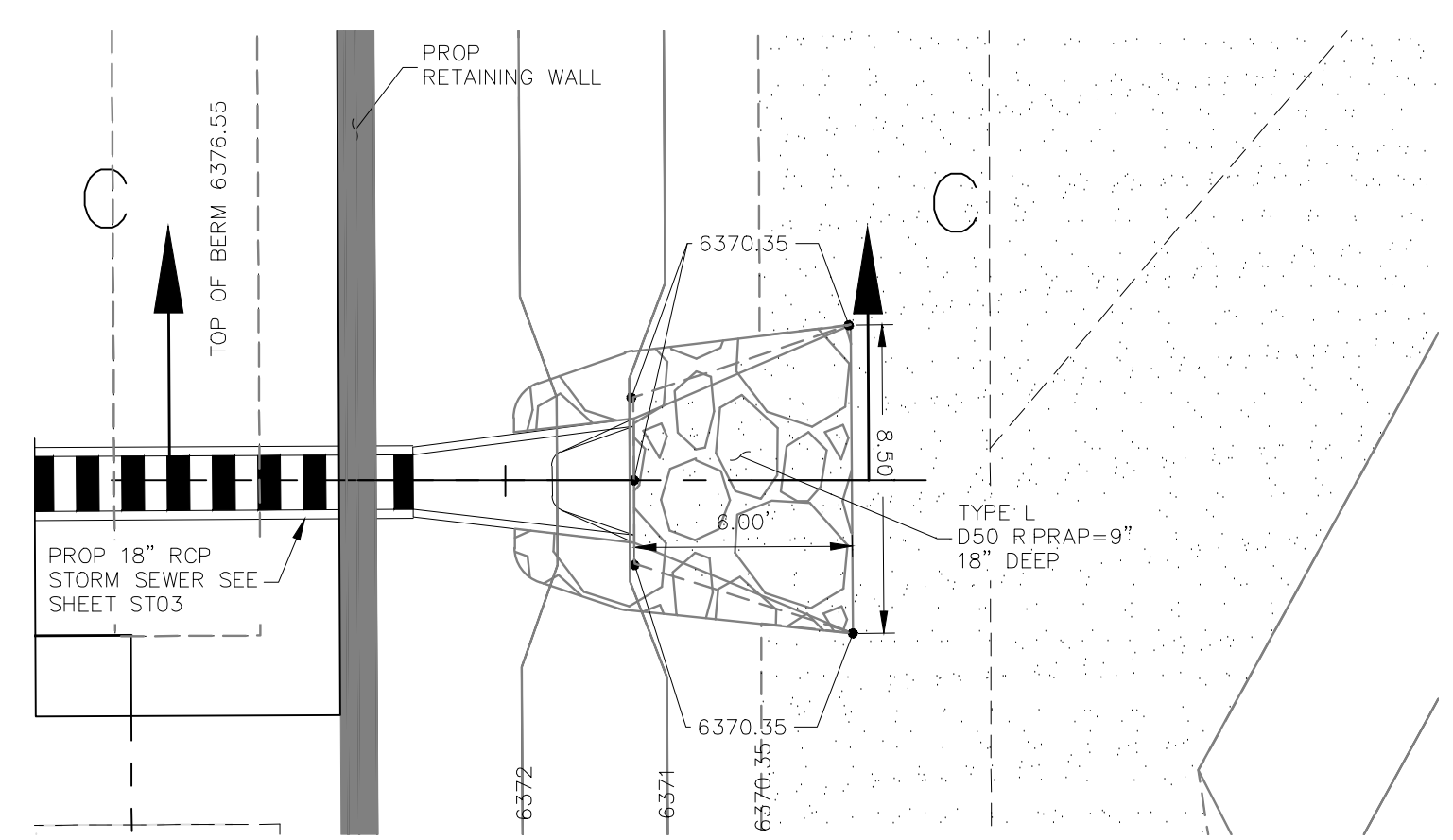
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LOT 2 - SAND FILTER POND 3 SPILLWAY PLAN
SCALE 1"=10'

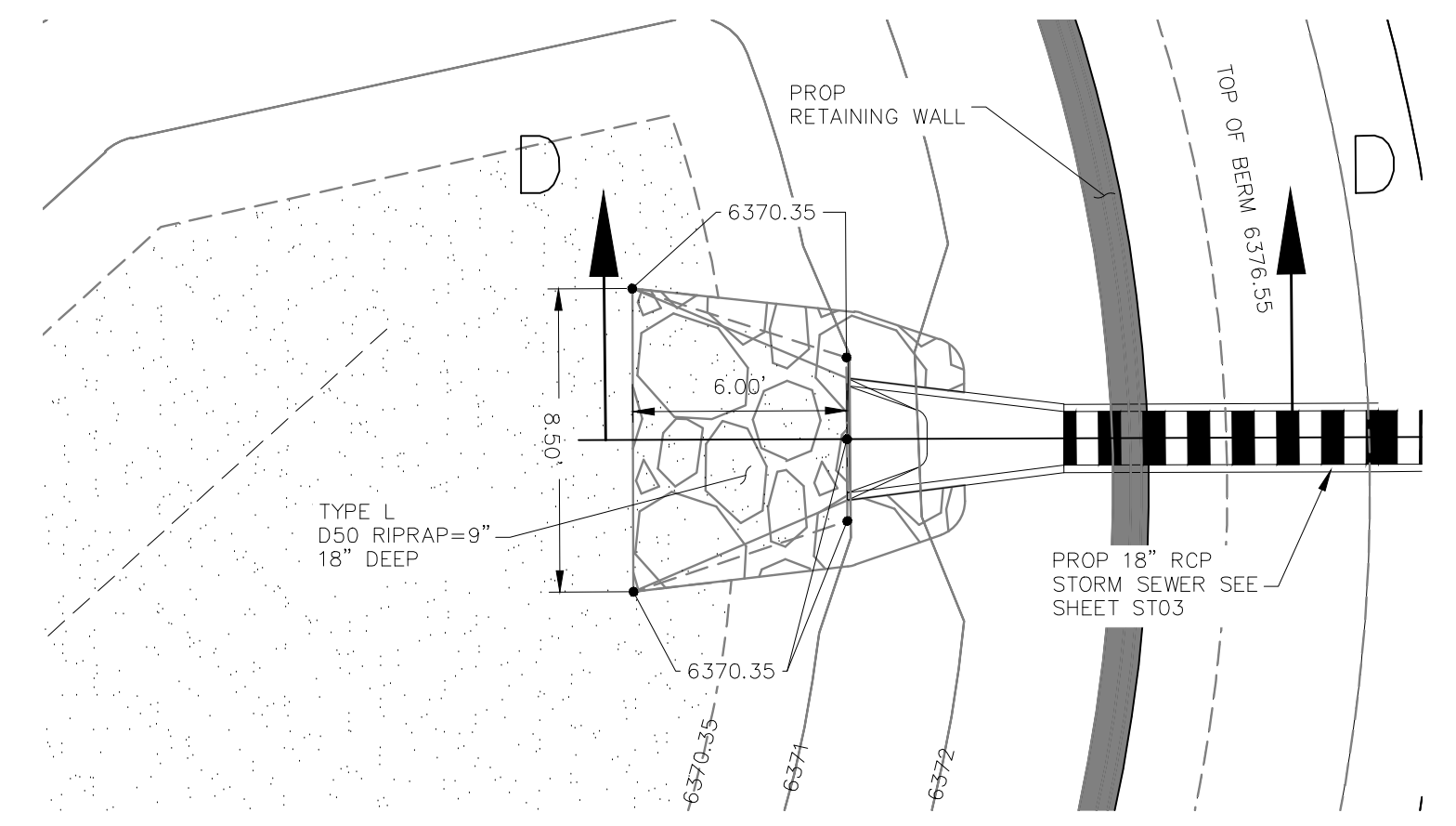


LOT 2 - SAND FILTER POND 3 WEST RIPRAP APRON (TYPICAL)
SCALE 1"=5'

TABLE 1

RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ (INCHES)
TYPE VL	70-100	12	6
	50-70	9	
	35-50	6	
	2-10	2	
TYPE L	70-100	15	9
	50-70	12	
	35-50	9	
	2-10	3	
TYPE M	70-100	21	12
	50-70	18	
	35-50	12	
	2-10	4	
TYPE H	70-100	30	18
	50-70	24	
	35-50	18	
	2-10	6	
TYPE VH	70-100	41	24
	50-70	33	
	35-50	24	
	2-10	9	

*D₅₀ = MEAN PARTICLE SIZE
REFER TO SECTION 506 RIPRAP OF CDOT SPECIFICATIONS



LOT 2 - SAND FILTER POND 3 NORTHEAST RIPRAP APRON (TYPICAL)
SCALE 1"=5'

CLAREMONT BUSINESS PARK 2 FIL. NO. 2
OUTLET STRUCTURE POND 3 DETAILS

212 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. 37160
10-03-25

REVISIONS: NO. DATE BY DESCRIPTION

DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS

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

DATE: 10/03/23

SHEET 13 OF 14
BMP02

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CAUTION

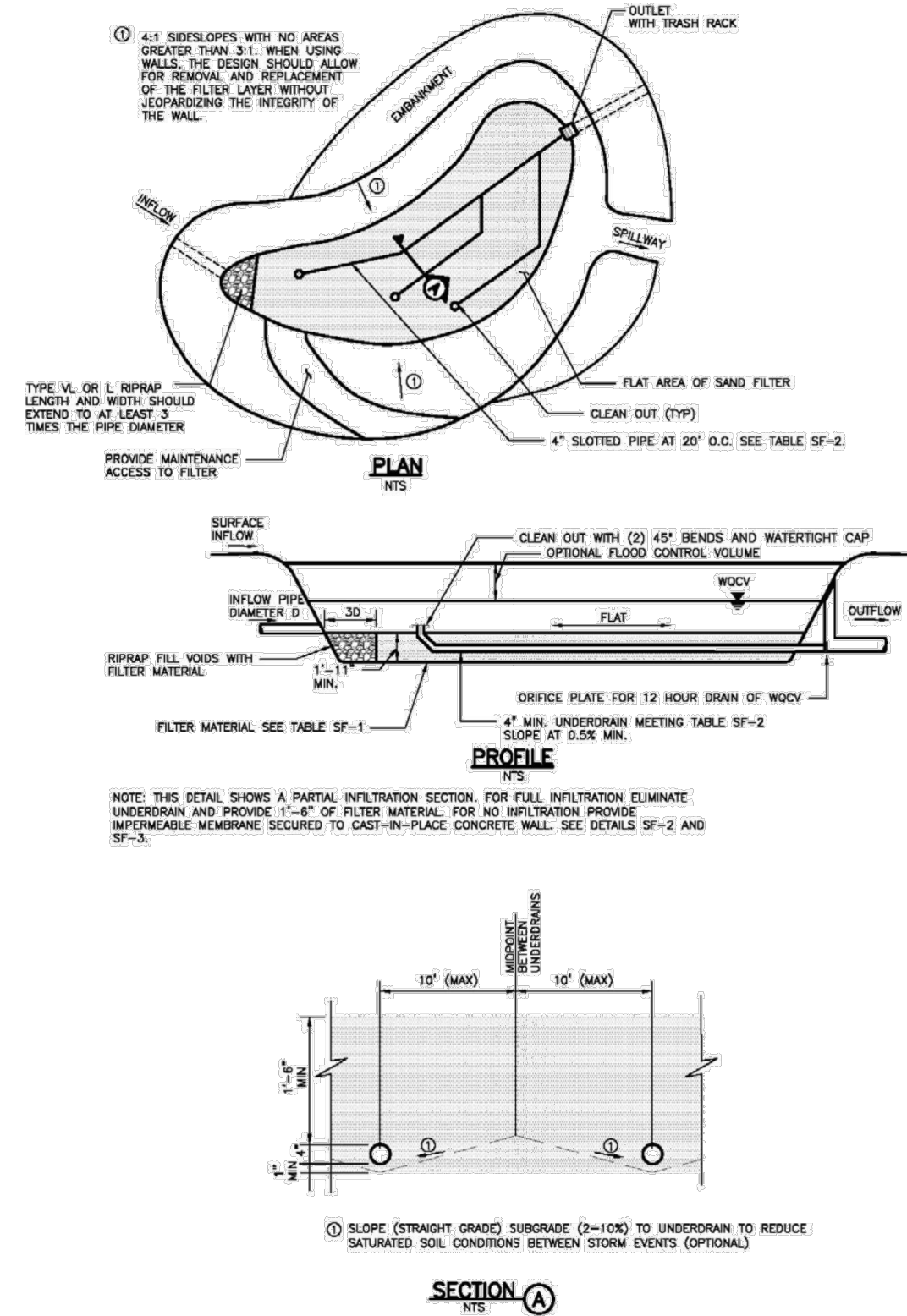
Table SF-1. Gradation Specifications for CDOT Class C Filter Material
(Source: CDOT Table 703-7)

Sieve Size	Mass Percent Passing Square Mesh Sieves
19.0 mm (3/4")	100
4.75 mm (No. 4)	60 - 100
300 µm (No. 50)	10 - 30
150 µm (No. 100)	0 - 10
75 µm (No. 200)	0 - 3

Table SF-2. Dimensions for Slotted Pipe

Pipe Size	Slot Length ¹	Maximum Slot Width	Slot Centers ¹	Open Area ¹ (per foot)
4"	1-1/16"	0.032"	0.413"	1.90 in ²
6"	1-3/8"	0.032"	0.516"	1.98 in ²

¹ Some variation in these values is acceptable and is expected from various pipe manufacturers. Be aware that both increased slot length and decreased slot centers will be beneficial to hydraulics but detrimental to the structure of the pipe.

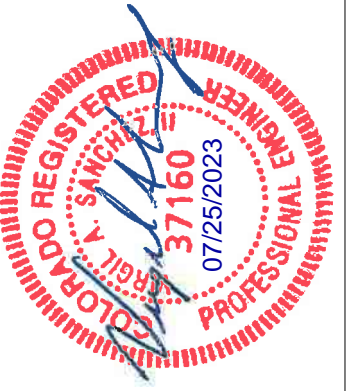


212 N. WAHATCH AVE., STE 305
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485



FOR AND ON
BEHALF OF
MKS CIVIL
CONSULTANTS,
INC.

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



REVISIONS:
NO. DATE BY DESCRIPTION APPROVED BY DATE

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

CLAREMONT BUSINESS PARK 2 FIL. NO. 2

OUTLET STRUCTURE POND 3 DETAILS

PROJECT NO. 10-020

SCALE:
HORIZONTAL:
VERTICAL:

DESIGNED BY: GW
DRAWN BY: CLP
CHECKED BY: VAS

DATE: 07/20/23

SHEET 14 OF 14

BMP03