

PAINT BRUSH HILLS FILING 13E

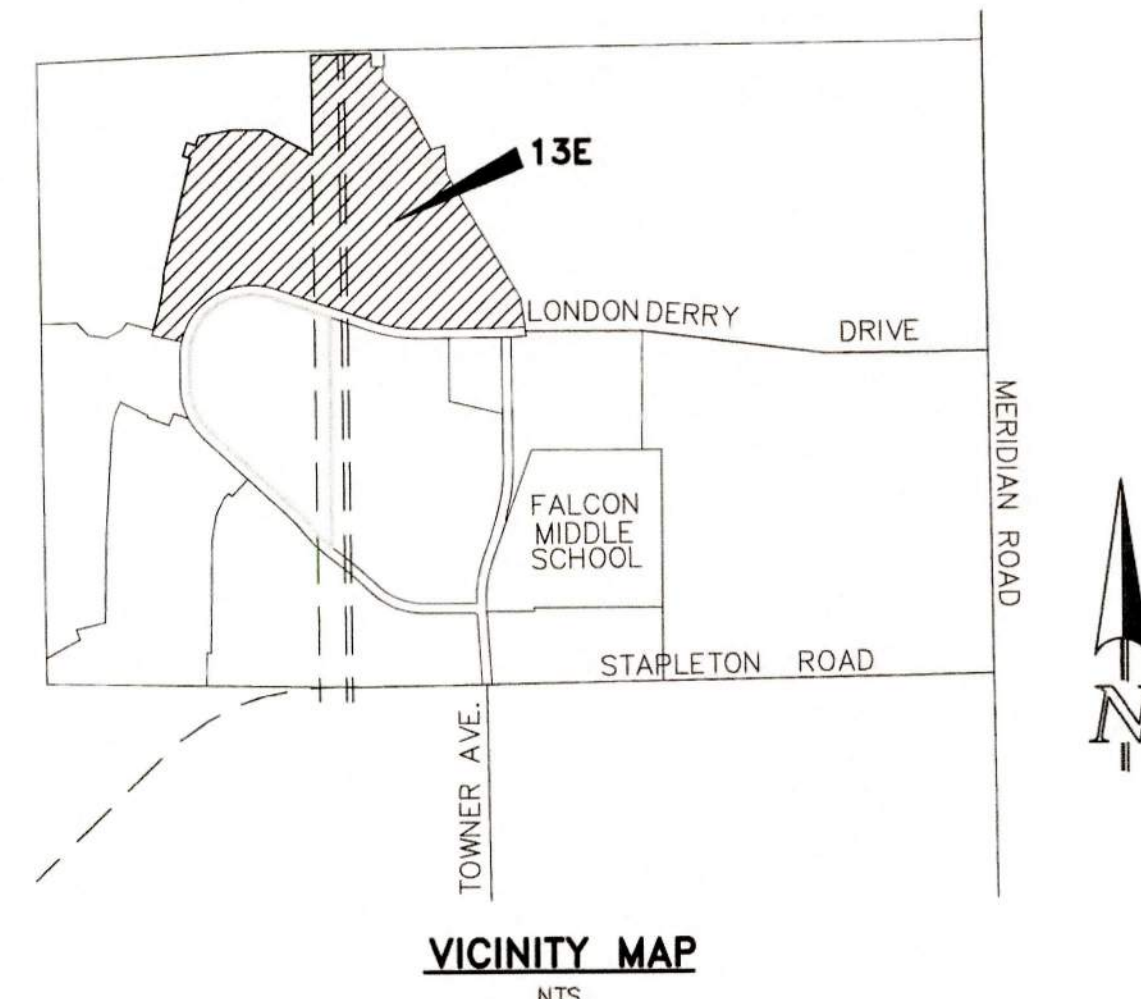
COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

JULY 2018

GENERAL CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1867 FOR EXISTING UTILITY LOCATIONS.
- 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.
- ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 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 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 DEVELOPMENT SERVICES DEPARTMENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- ALL WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS.
- ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
- ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND/OR ROODING AND RESTRAINED PIPE PER THE PAINT BRUSH HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- MAXIMUM DEFLECTION OF 8" & 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25' OR 22.5' BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEW AND SAN. SEW. MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- SANITARY SEWER PIPE AND FITTINGS: PVC 4"-8" ASTM D3034, TYPE PSM, SDR 35; PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTION, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SAN. SEW. MAIN)



STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- 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 PLANNING AND COMMUNITY DEVELOPMENT - 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 PCO. 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 PCO.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCO 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 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 SUBBASE 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. CROSSWALK 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.

BENCHMARKS:

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

CONSTRUCTION PLAN SHEET INDEX

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SHEET 16	OF 16	POND D ASBUILT

BASIS OF BEARINGS:

THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEING MONUMENTED AT THE EAST BY A 3.25" ALUMINUM CAP STAMPED P.L.S. 12103, PRINCIPAL MERIDIAN AND AT THE WEST END BY A NO. 6 REBAR WITH 2.5" ALUMINUM CAP STAMPED P.L.S. 4842, ASSUMED TO BEAR N89°02'00"W, A DISTANCE OF 2614.11 FEET AS SHOWN ON A LAND SURVEY PLAT BY W. K. CLARK AND ASSOCIATES, DATED AUGUST 13, 1999.

AGENCIES:

OWNER/DEVELOPER:	AEROPLAZA FOUNTAIN LLC & HEIDI LLC 212 NORTH WAHSATCH AVENUE, SUITE 301 COLORADO SPRINGS, CO 80903 MR. JEFF MARK, (719) 635-3200
CIVIL ENGINEER:	CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, COLORADO 80903 MR. MARC A. WHORTON, P.E. (719) 785-2802
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, COLORADO 80910 MR. GILBERT LAFORCE (719) 520-7945
METRO DISTRICT:	PAINT BRUSH HILLS METRO DISTRICT 9830 LIBERTY GROVE DR. FALCON, CO 80831 MR. LEON GOMES (719) 495-8188
GAS COMPANY:	BLACKHILLS ENERGY 37 WIDEFIELD BOULEVARD WIDEFIELD, COLORADO 80911 MR. GEORGE M. PETERSON, (719) 392-3491
ELECTRIC COMPANY:	MOUNTAIN VIEW ELECTRIC P.O. BOX 1600 LIMON, COLORADO 80828 MR. LES ULFERS, (719) 495-2283
FIRE DEPARTMENT:	FALCON FIRE PROTECTION DISTRICT 7030 N. MERIDIAN RD. FALCON, COLORADO 80831 CHIEF HARWIG (719) 495-4050
TELEPHONE COMPANY:	CENTURY LINK (LOCATORS) 811 AT & T (LOCATORS) 811

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS 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 DIRECTLY CAUSED BY THE NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.



MARC A. WHORTON, COLORADO, P.E. #37155
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

10/19/18
DATE

OWNER/DEVELOPER'S STATEMENT:

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

Jeff Mark
MR. JEFF MARK
AEROPLAZA FOUNTAIN LLC AND HEIDI
LLC

9/25/18
DATE

EL PASO COUNTY:

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

Approved

by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer, ECM Administrator

10/29/2018 9:39:17 AM

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



AS-BUILT ENGINEERING RECORD DRAWINGS

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p>	<table border="1"> <thead> <tr> <th>NO. REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	NO. REVISION	DATE											<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="text-align: right;">10/19/18 DATE</p> <p>MARC A. WHORTON, COLORADO, P.E. # 37155</p>
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CLASSIC CONSULTING

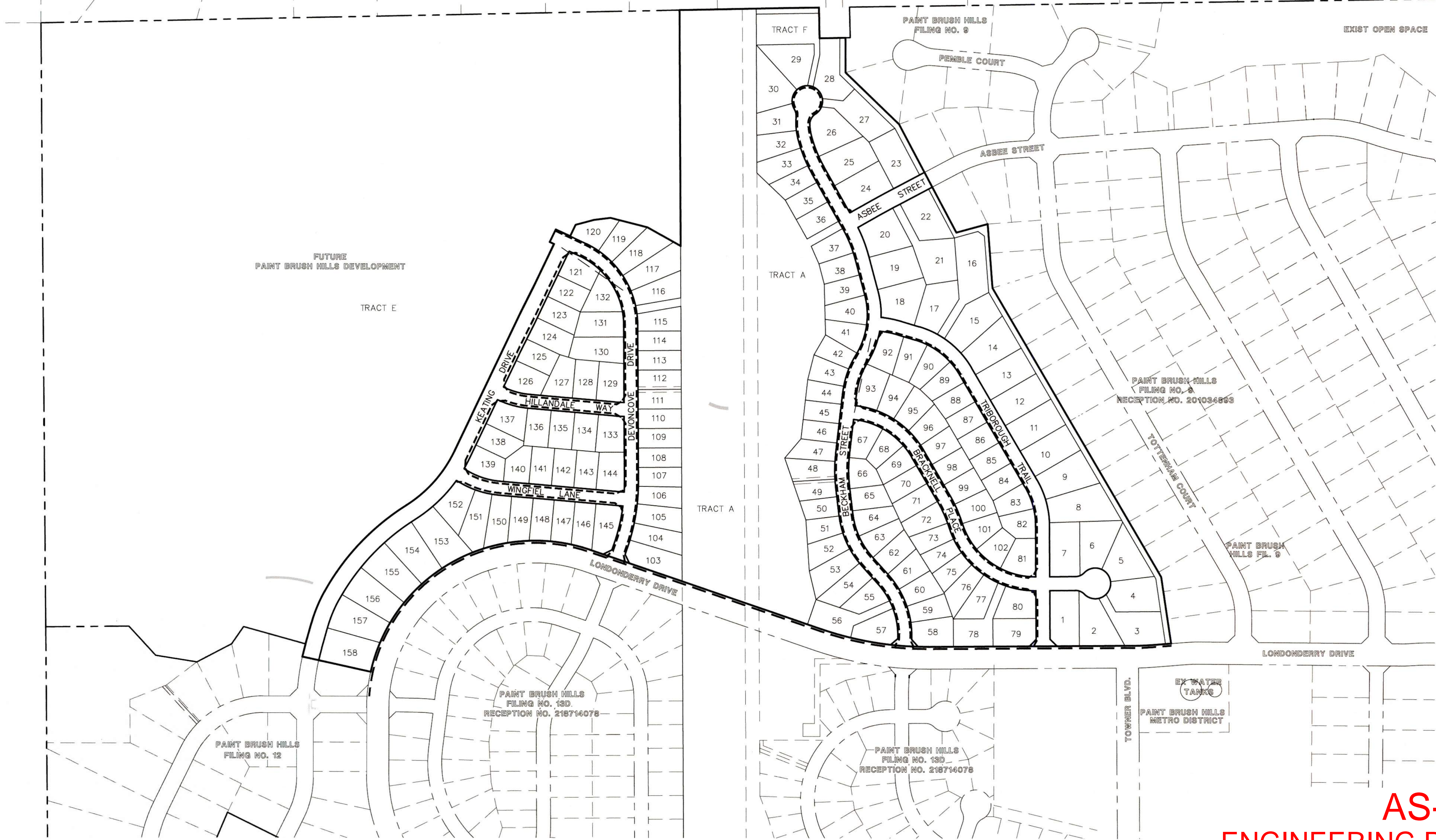
619 N. Cascade Avenue, Suite 200 (719) 785-0790
Colorado Springs, Colorado 80903 (719) 785-0799(Fax)

PAINT BRUSH HILLS FILING 13E			
CONSTRUCTION PLANS			
TITLE SHEET			
DESIGNED BY	MAW	SCALE	DATE 7-12-18
DRAWN BY	MAW	(H) 1"= N/A	SHEET 1 OF 16-18
CHECKED BY	(V) 1"= N/A	JOB NO.	2053.50

PCD PROJECT NO. SF-189

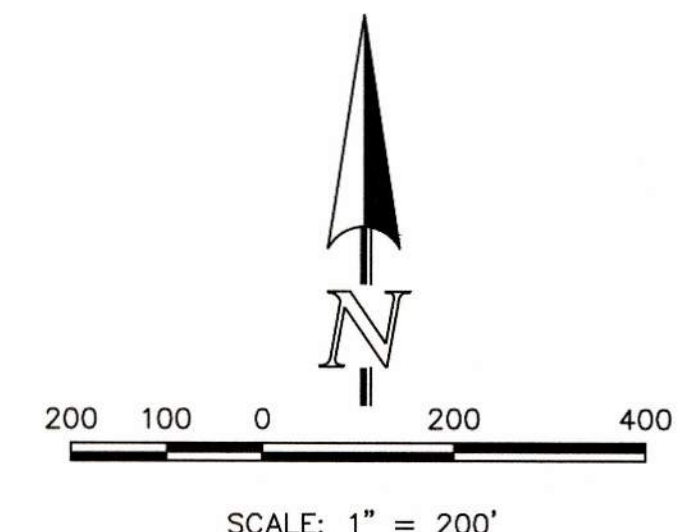
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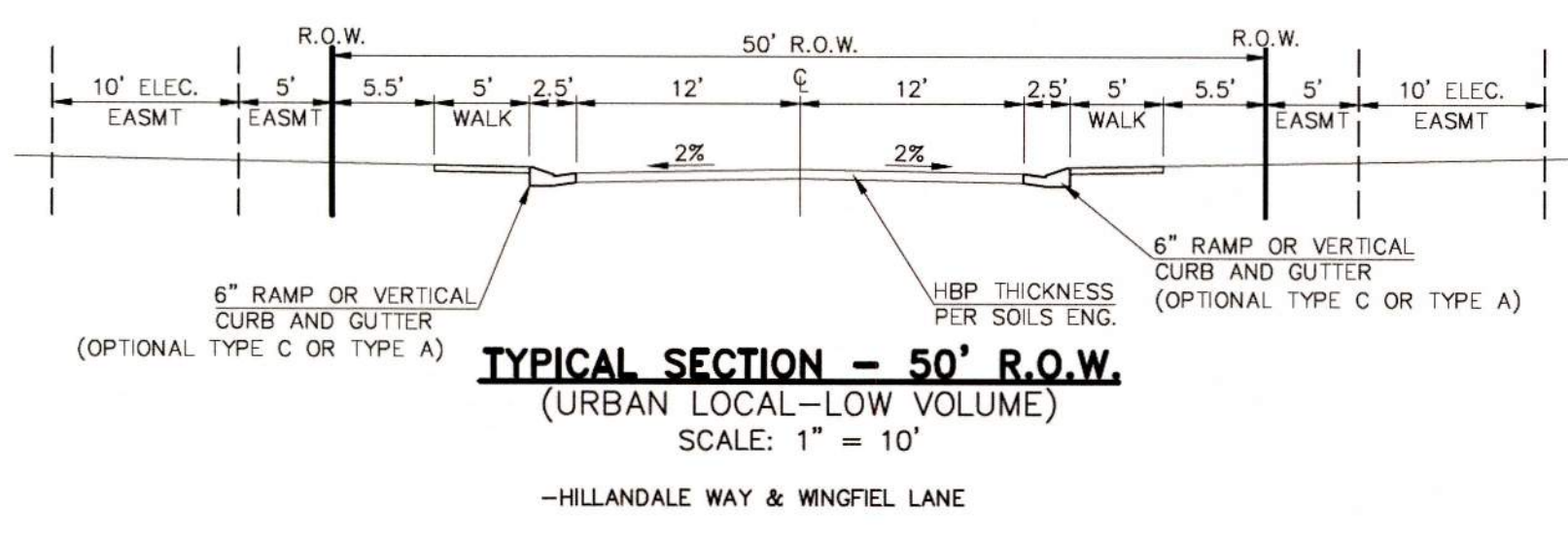
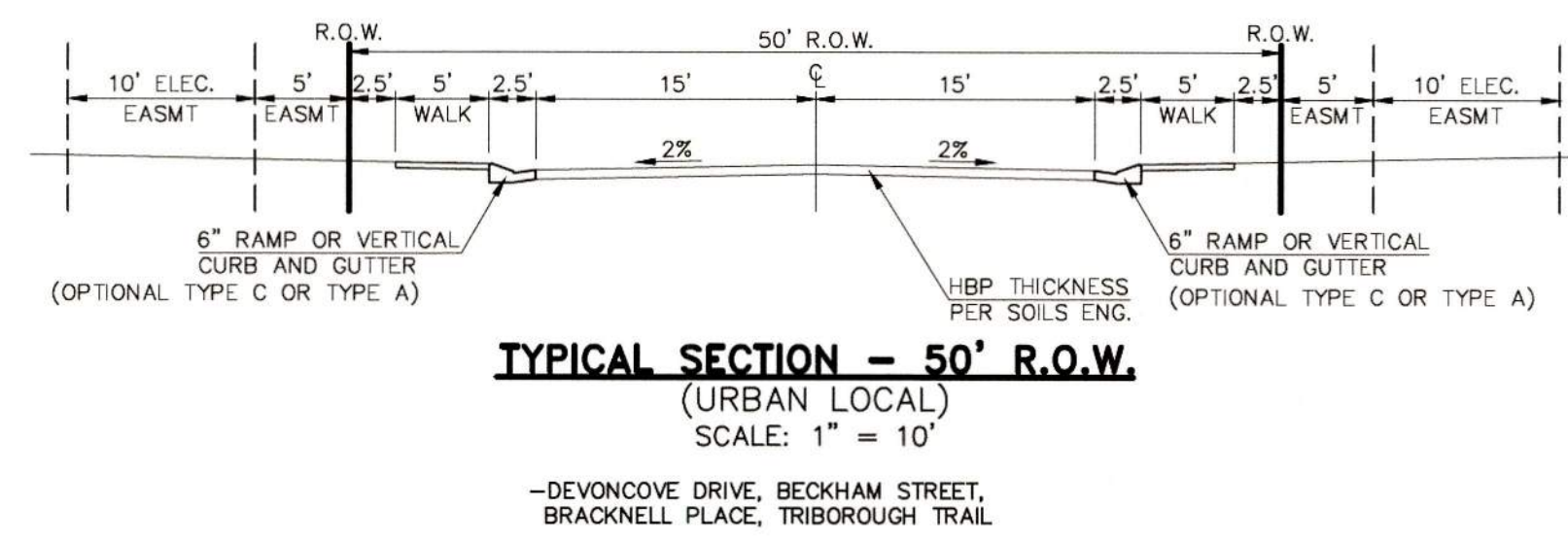
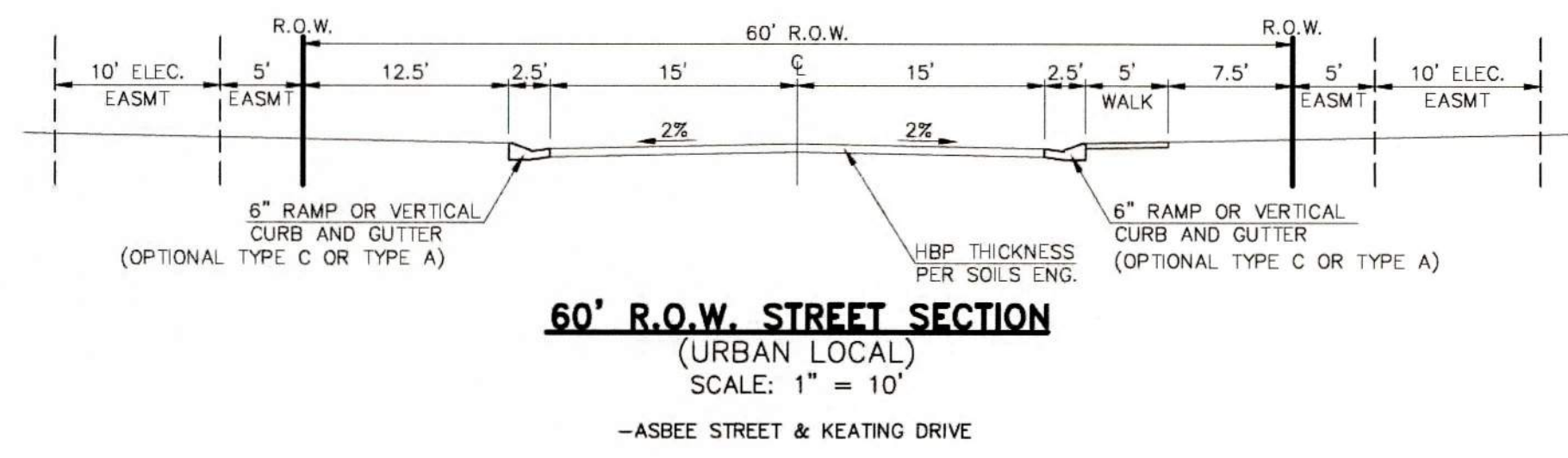
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SIDEWALK LEGEND

5' ATTACHED SIDEWALK	-----
5' DETACHED SIDEWALK	-----

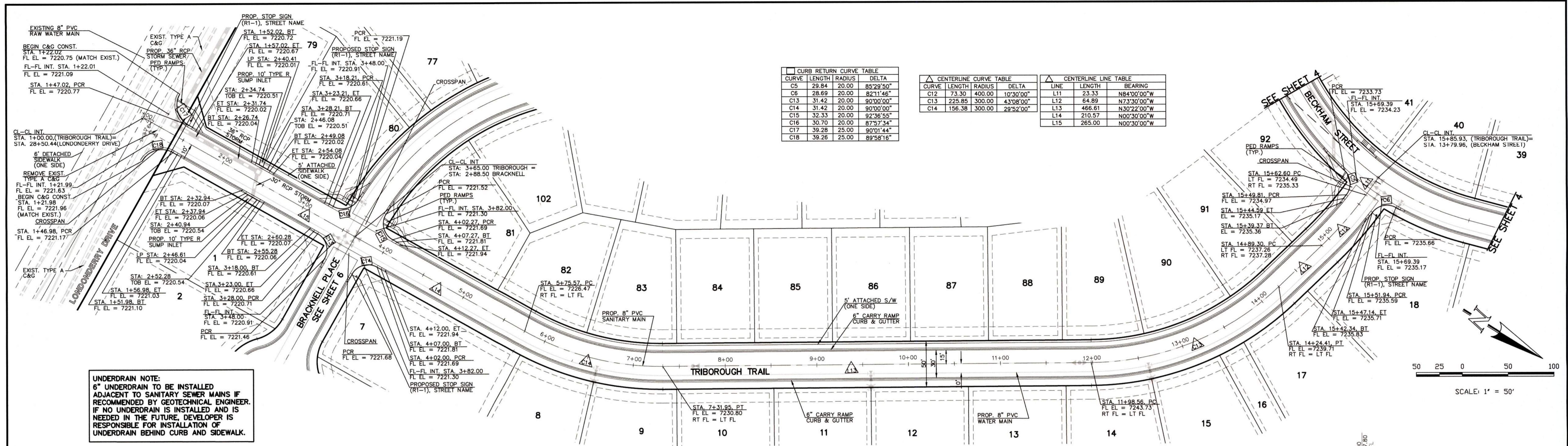
**AS-BUILT
ENGINEERING RECORD DRAWINGS**



SIDEWALK NOTES:
1. INSTALL 5' ATTACHED SIDEWALK ONLY WHERE IDENTIFIED ON THE CONSTRUCTION PLANS.



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CHECKED BY	(V) 1" = N/A	JOB NO.	2053.50																				

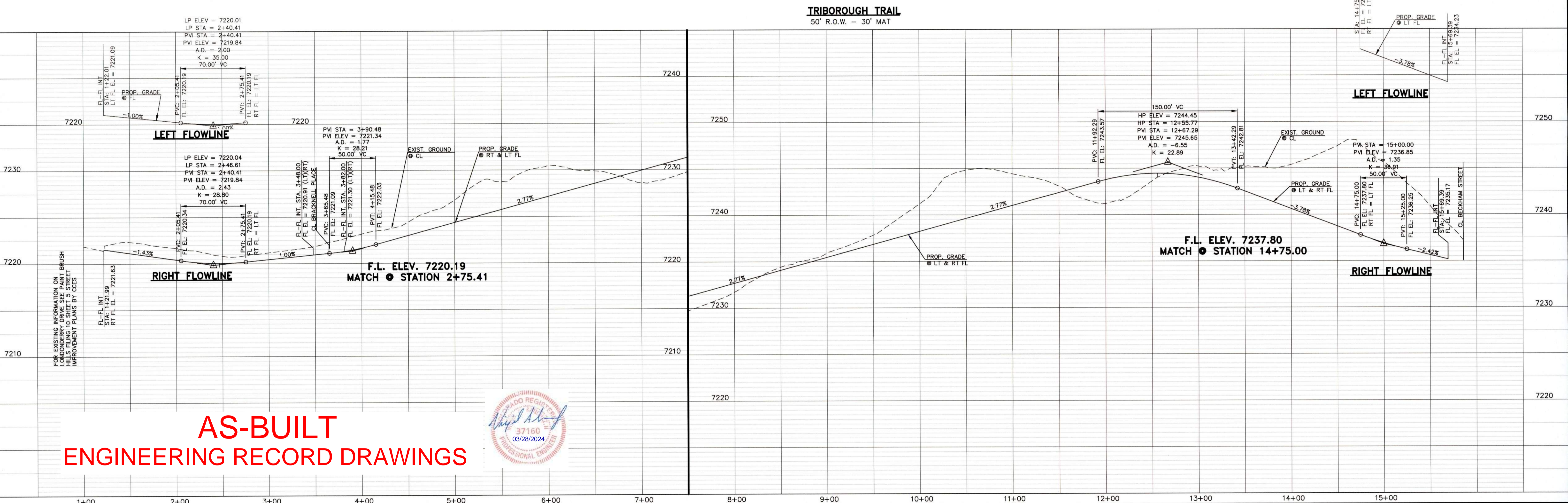
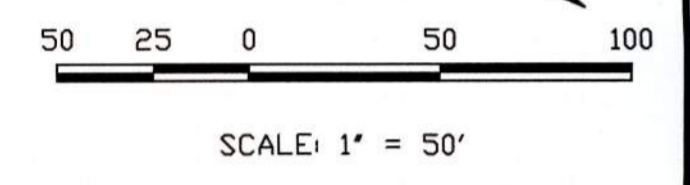


CURB RETURN CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C5	29.84	20.00	85°29'50"
C6	28.69	20.00	82°11'46"
C13	31.42	20.00	90°00'00"
C14	31.42	20.00	90°00'00"
C15	32.33	20.00	92°36'55"
C16	30.70	20.00	87°57'34"
C17	39.28	25.00	90°01'44"
C18	39.26	25.00	89°58'16"

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C12	73.30	400.00	10°30'00"
C13	225.85	300.00	43°08'00"
C14	156.38	300.00	29°52'00"

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L11	23.33	N84°00'00"W
L12	64.89	N73°30'00"W
L13	466.61	N30°22'00"W
L14	210.57	N00°30'00"W
L15	265.00	N00°30'00"W

UNDERDRAIN NOTE:
 6" UNDERDRAIN TO BE INSTALLED ADJACENT TO SANITARY SEWER MAINS IF RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.



**AS-BUILT
 ENGINEERING RECORD DRAWINGS**



DESIGN DATA: TRIBOROUGH TRAIL

SIDEWALKS: WIDTH: 5'	COMPOSITE SECTION: HMA
LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	BASE: HMA
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A X C	SUBGRADE STABILIZATION: MECH.
R/W WIDTH: 50' MAT WIDTH: 30'	CHEMICAL: <input type="checkbox"/> MECH. <input type="checkbox"/>
STREET TYPE: URBAN LOCAL	THICKNESS: _____

48 HOURS BEFORE YOU DIG,
 CALL UTILITY LOCATORS
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 UTILITY NOTIFICATION CENTER OF COLORADO
 IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-21-18

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WORTON, COLORADO P.E. #37155

10/19/18



PAINT BRUSH HILLS FILING 13E
 CONSTRUCTION PLANS
 STREET IMPROVEMENT PLANS
 TRIBOROUGH TRAIL

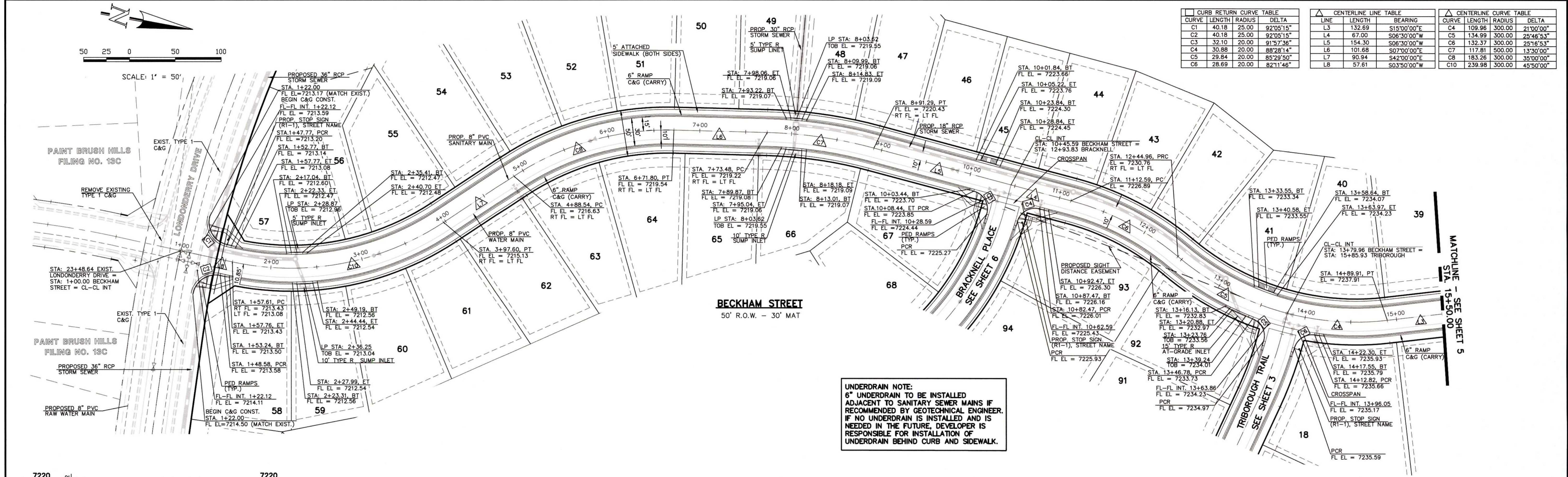
DESIGNED BY	MAW	SCALE	DATE
7-20-18			

DRAWN BY	MAW	(H) 1" = 50'	SHEET 3 OF 18

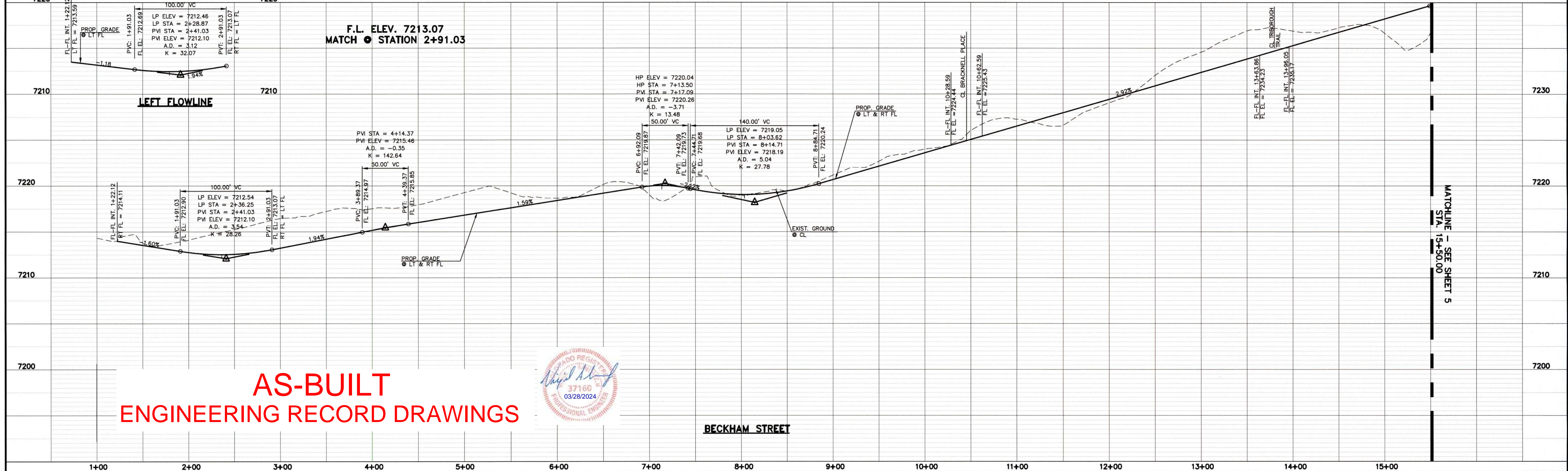
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM_CDS\205350-501-SHEET 3.dwg, 10/19/2018 11:21:36 AM, 1:1

CURB RETURN CURVE TABLE				CENTERLINE LINE TABLE		CENTERLINE CURVE TABLE	
CURVE	LENGTH	RADIUS	DELTA	LINE	LENGTH BEARING	CURVE	LENGTH RADIUS DELTA
C1	40.18	25.00	92°05'15"	L3	132.69 S15°00'00"E	C4	109.96 300.00 210°00'00"
C2	40.18	25.00	92°05'15"	L4	67.00 S06°30'00"W	C5	134.99 300.00 25°46'53"
C3	32.10	20.00	91°57'36"	L5	154.30 S07°00'00"W	C6	132.37 300.00 25°16'53"
C4	30.88	20.00	88°28'14"	L6	101.68 S07°00'00"E	C7	117.81 500.00 13°50'00"
C5	29.84	20.00	85°29'50"	L7	96.94 S42°00'00"E	C8	183.26 300.00 35°00'00"
C6	28.69	20.00	82°11'46"	L8	57.61 S03°50'00"W	C10	239.98 300.00 45°50'00"



UNDERDRAIN NOTE:
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AS-BUILT ENGINEERING RECORD DRAWINGS



DESIGN DATA: BECKHAM STREET

PAVEMENT: TYPE: HMA PCC THICKNESS _____

COMPOSITE SECTION: HMA _____ BASE _____ SUBGRADE STABILIZATION: CHEMICAL: MECH: TYPE: _____ THICKNESS _____

SIDEWALKS: WIDTH: 5' LOCATION: Attached Detached

CURB TYPE: 1 5 3 A C

R/W WIDTH: 50' MAT WIDTH: 30'

STREET TYPE: URBAN LOCAL HVEEM _____

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-21-18

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

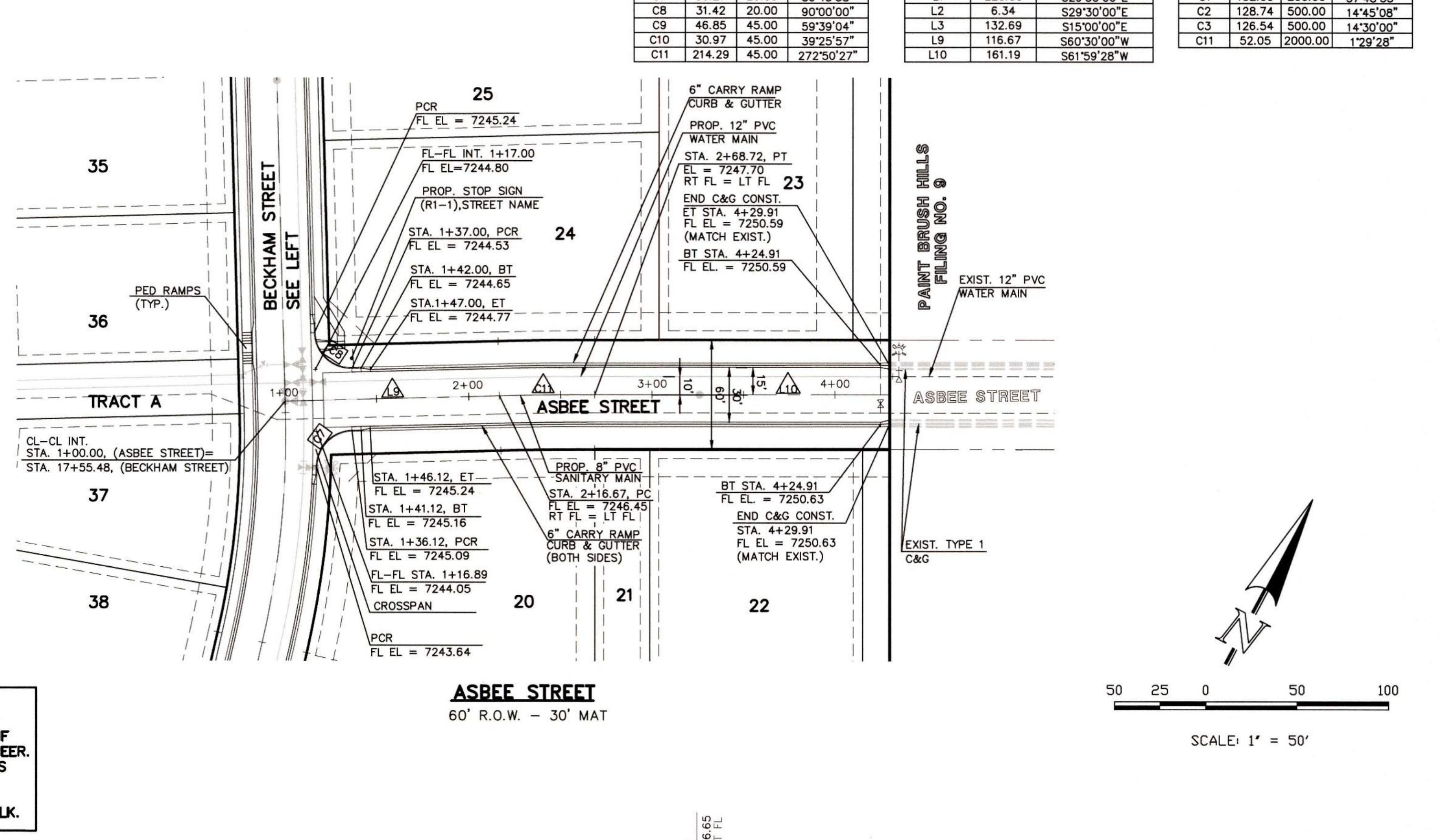
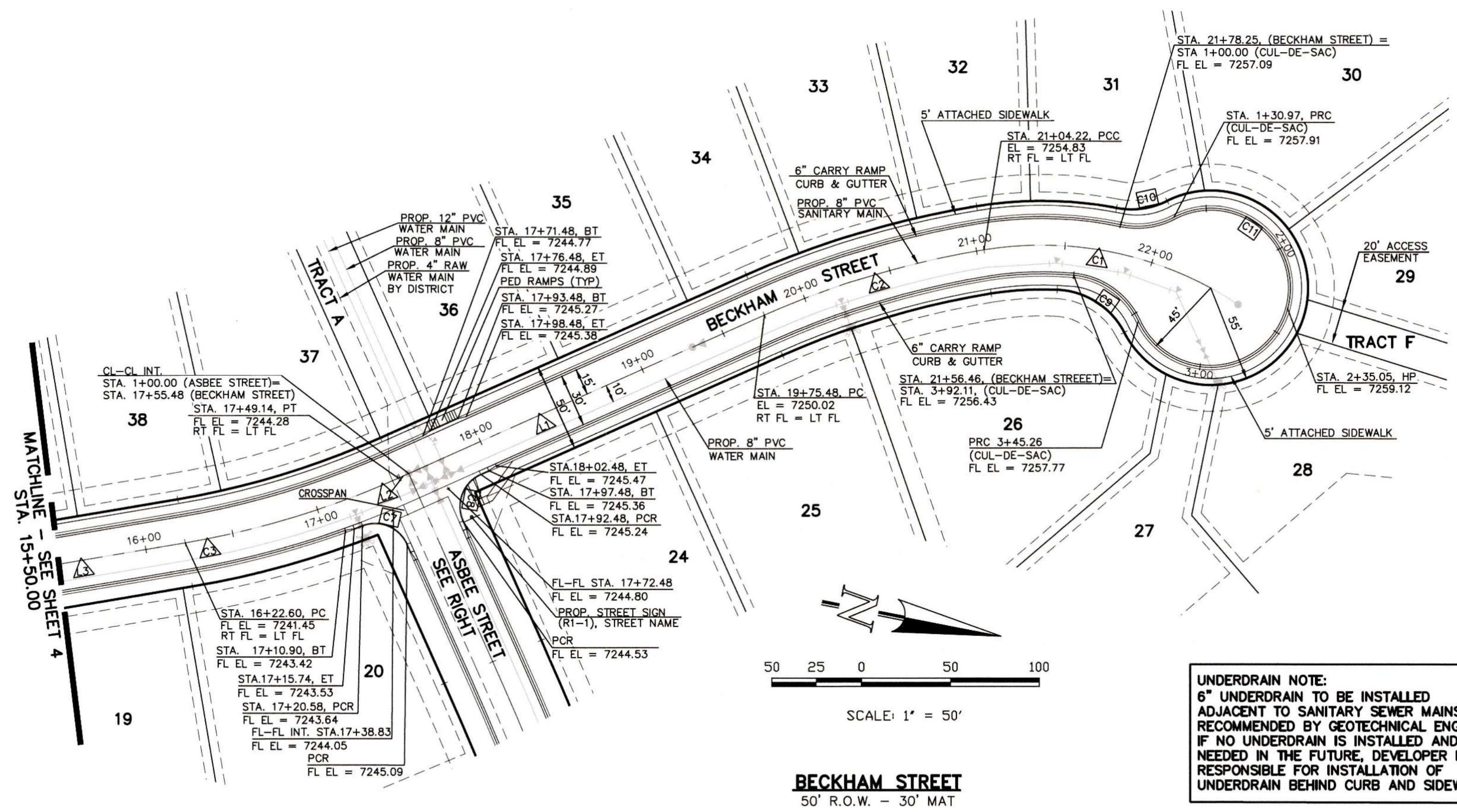
MARC A. WHORTON, COLORADO P.E. #37155 DATE: 10/19/18



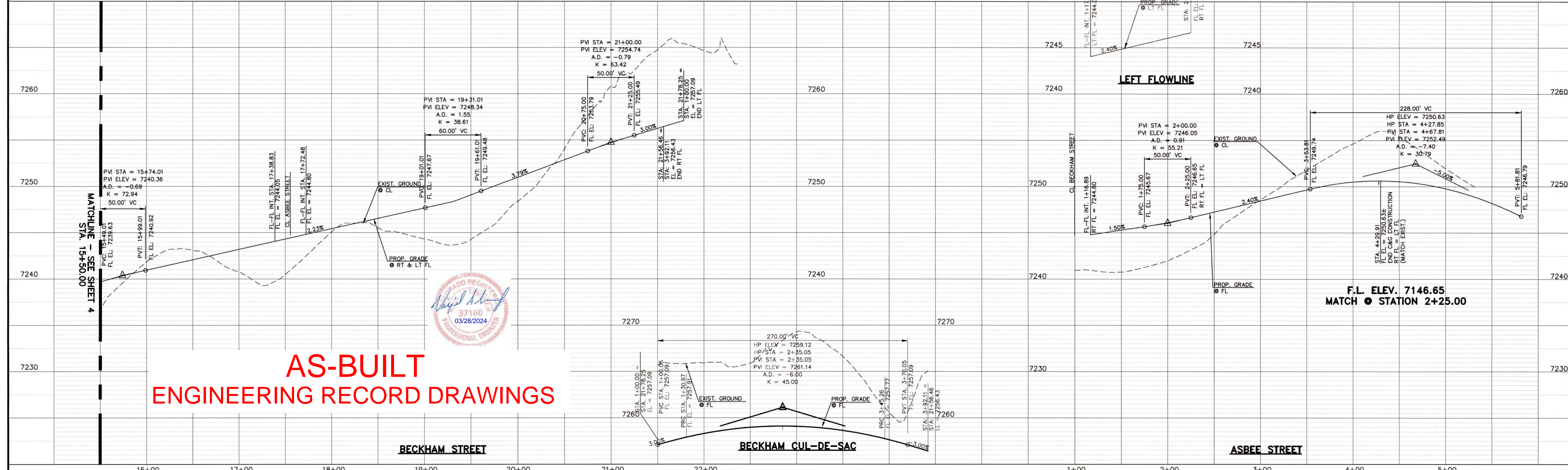
PAINT BRUSH HILLS FILING 13E
 CONSTRUCTION PLANS
 STREET IMPROVEMENT PLANS
 BECKHAM STREET

DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 50'	SHEET 4 OF 18
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

CURB RETURN CURVE TABLE				CENTERLINE LINE TABLE			CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA	LINE	LENGTH	BEARING	CURVE	LENGTH	RADIUS	DELTA
C7	30.27	20.00	86°43'38"	L1	220.00	S29°30'00"E	C1	132.00	200.00	37°48'55"
C8	31.42	20.00	90°00'00"	L2	6.34	S29°30'00"E	C2	128.74	500.00	14°45'08"
C9	46.85	45.00	59°39'04"	L3	132.69	S15°00'00"E	C3	126.54	500.00	14°30'00"
C10	30.97	45.00	39°25'57"	L9	116.67	S60°30'00"W	C11	52.05	2000.00	1°28'28"
C11	214.29	45.00	272°50'27"	L10	161.19	S61°59'28"W				



UNDERDRAIN NOTE:
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**AS-BUILT
 ENGINEERING RECORD DRAWINGS**



DESIGN DATA: BECKHAM ROAD/ASBEE STREET

SIDEWALKS: WIDTH: 5'	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>
LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	THICKNESS: _____
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C	COMPOSITE SECTION: _____
R/W WIDTH: 50' / 60' MAT WIDTH: 30'	BASE: _____
STREET TYPE: URBAN LOCAL HVEEM	SUBGRADE STABILIZATION: _____
	CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/>
	TYPE: _____
	THICKNESS: _____

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-20-18

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO P.E. #37155 DATE 10/19/18

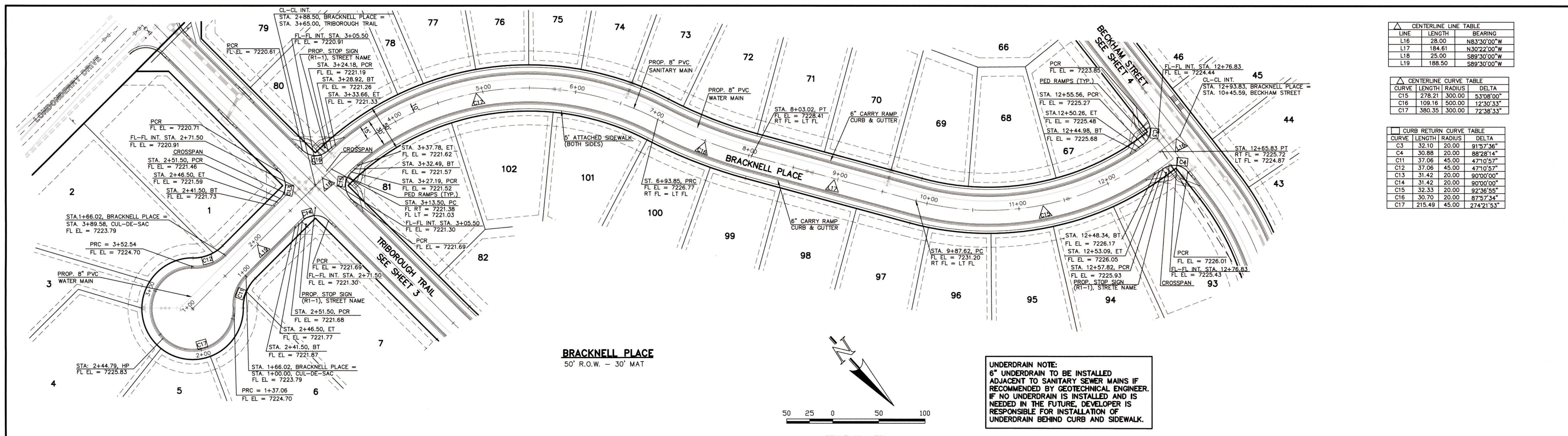


**PAINT BRUSH HILLS FILING 13E
 CONSTRUCTION PLANS**

STREET IMPROVEMENT PLANS
 BECKHAM STREET/ASBEE STREET

DESIGNED BY	MAW	SCALE	DATE	7-20-18
DRAWN BY	MAW	(H) 1" = 50'	SHEET	5 OF 17-18
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50	

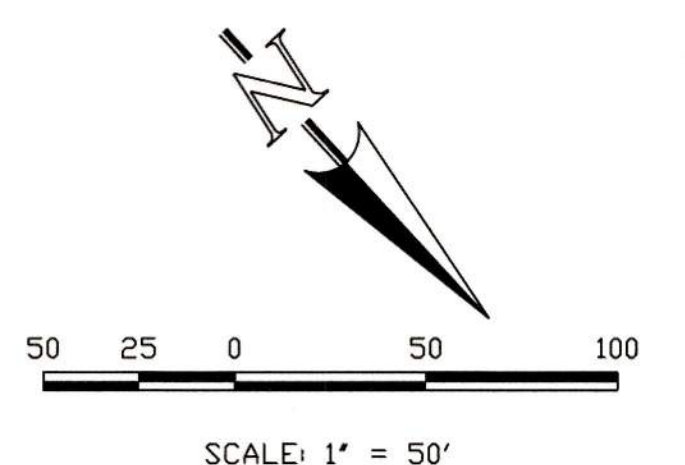
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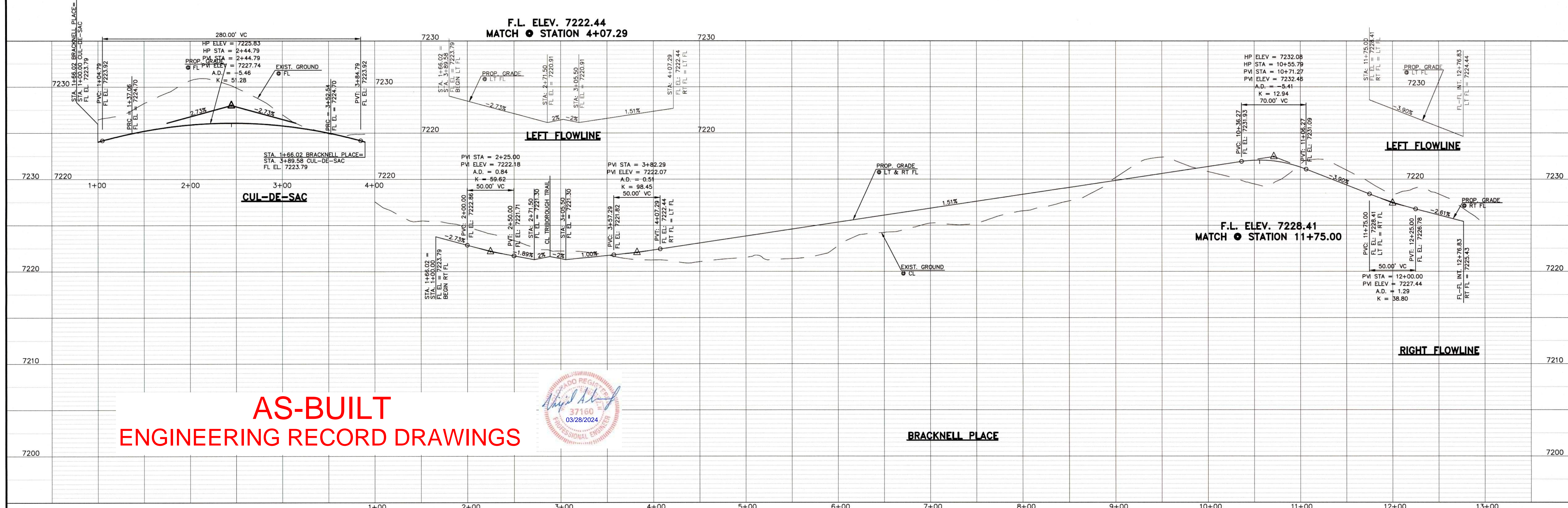
CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L16	28.00	N83°50'00"W
L17	184.61	N30°22'00"W
L18	25.00	S89°50'00"W
L19	188.50	72°38'33"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C15	278.21	300.00	53°08'00"
C16	109.16	500.00	12°30'33"
C17	380.35	300.00	72°38'33"

CURB RETURN CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C3	32.10	20.00	91°57'36"
C4	30.88	20.00	88°28'14"
C11	37.06	45.00	47°10'57"
C12	37.06	45.00	47°10'57"
C13	31.42	20.00	90°00'00"
C14	31.42	20.00	90°00'00"
C15	32.33	20.00	92°36'55"
C16	30.70	20.00	87°57'34"
C17	215.49	45.00	274°21'53"



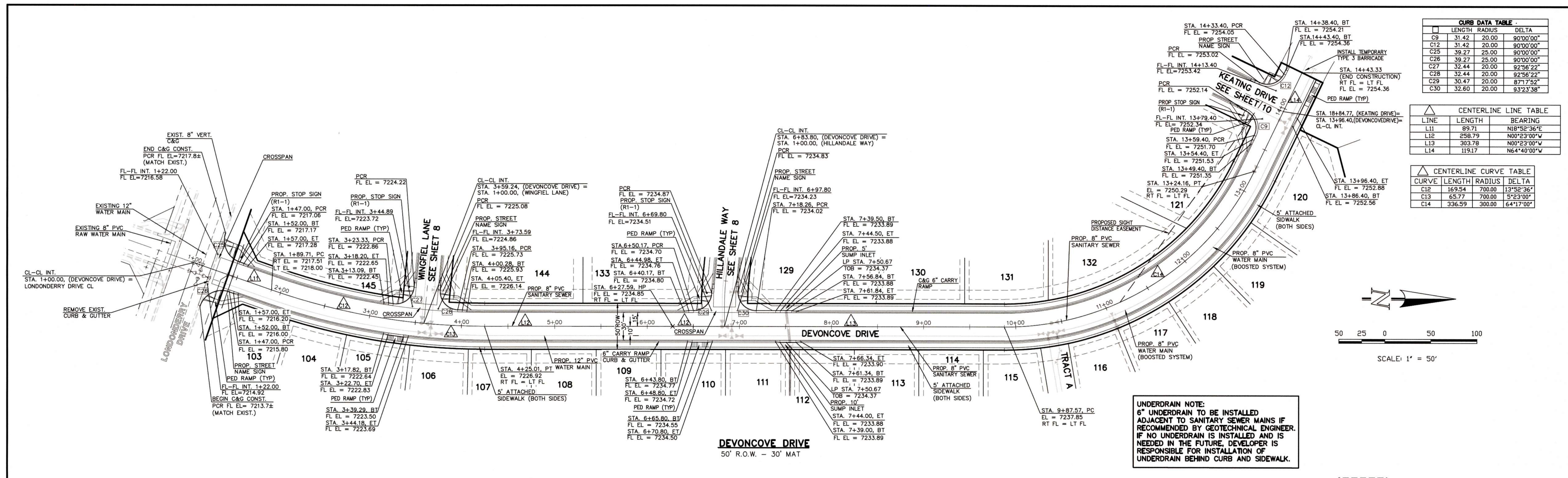
UNDERDRAIN NOTE:
 6" UNDERDRAIN TO BE INSTALLED ADJACENT TO SANITARY SEWER MAINS IF RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.



**AS-BUILT
 ENGINEERING RECORD DRAWINGS**



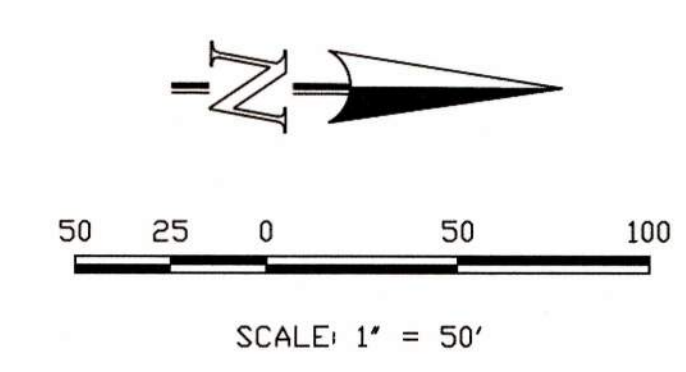
DESIGN DATA: BRACKNELL PLACE SIDEWALKS: WIDTH: 5' LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C R/W WIDTH: 50' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: COMPOSITE SECTION HMA _____ BASE _____ SUBGRADE STABILIZATION: CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION 1 REVISED PER COUNTY COMMENTS DATE: 9-20-18	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WHORION, COLORADO P.E. #37155 DATE: 10/19/18	 619 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799(Fax)	PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS BRACKNELL PLACE DESIGNED BY: MAW SCALE: (H) 1" = 50' DATE: 7-20-18 DRAWN BY: MAW (V) 1" = 5' SHEET 6 OF 17-18 CHECKED BY: _____ JOB NO.: 2053.50



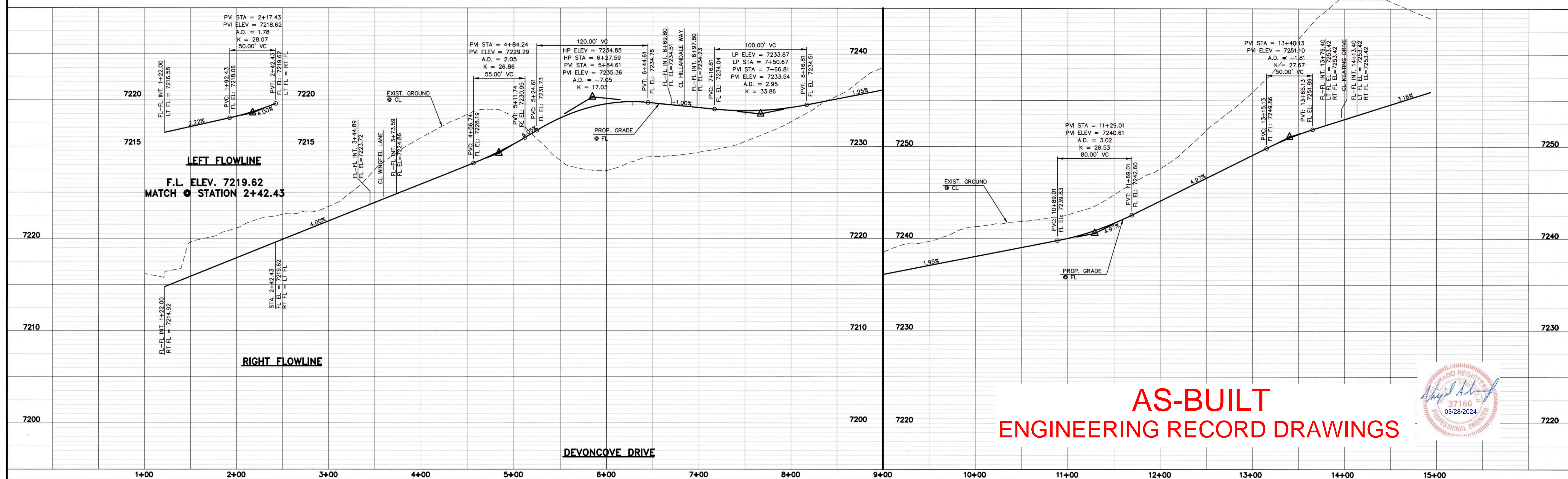
CURB DATA TABLE			
CURB	LENGTH	RADIUS	DELTA
C9	31.42	20.00	90°00'00"
C12	31.42	20.00	90°00'00"
C25	39.27	25.00	90°00'00"
C26	39.27	25.00	90°00'00"
C27	32.44	20.00	92°56'22"
C28	32.44	20.00	92°56'22"
C29	30.47	20.00	87°17'52"
C30	32.60	20.00	93°23'58"

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L11	89.71	N18°52'36"E
L12	258.79	N00°23'00"W
L13	303.78	N00°23'00"W
L14	119.17	N64°40'00"W

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C12	169.54	700.00	13°52'36"
C13	65.77	700.00	5°29'00"
C14	336.59	900.00	64°17'00"



UNDERDRAIN NOTE:
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**AS-BUILT
 ENGINEERING RECORD DRAWINGS**

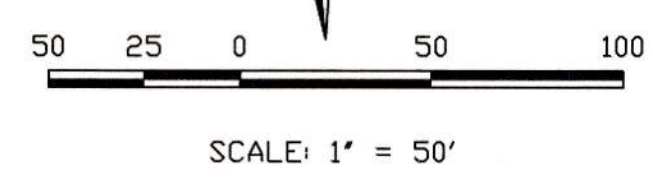
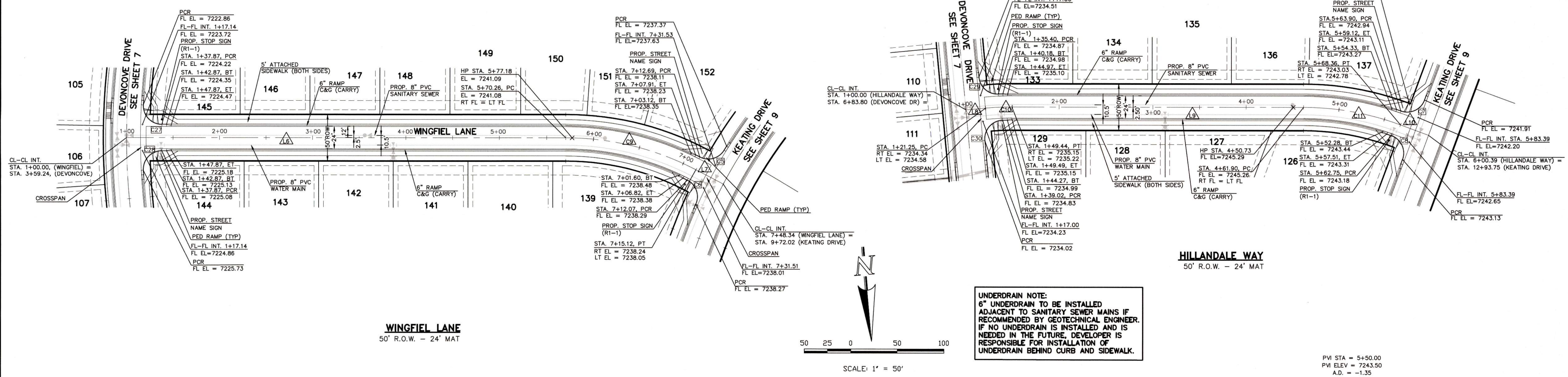


DESIGN DATA: DEVONCOVE DRIVE SIDEWALKS: WIDTH: 5' LOCATION: <input type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C R/W WIDTH: 50' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: _____ HMA: _____ BASE: _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION 1 REVISED PER COUNTY COMMENTS	DATE 9-20-18	REVIEW: PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WHORTON, COLORADO P.E. #37155 DATE: 10/19/18	PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS DEVONCOVE DRIVE DESIGNED BY: MAW SCALE: (H) 1" = 50' SHEET 7 OF 17 DRAWN BY: MAW (V) 1" = 5' JOB NO. 2053.50 CHECKED BY: _____
			CLASSIC CONSULTING 619 N. Cascade Avenue, Suite 200 (719)785-0780 Colorado Springs, Colorado 80903 (719)785-0789(Fax)			

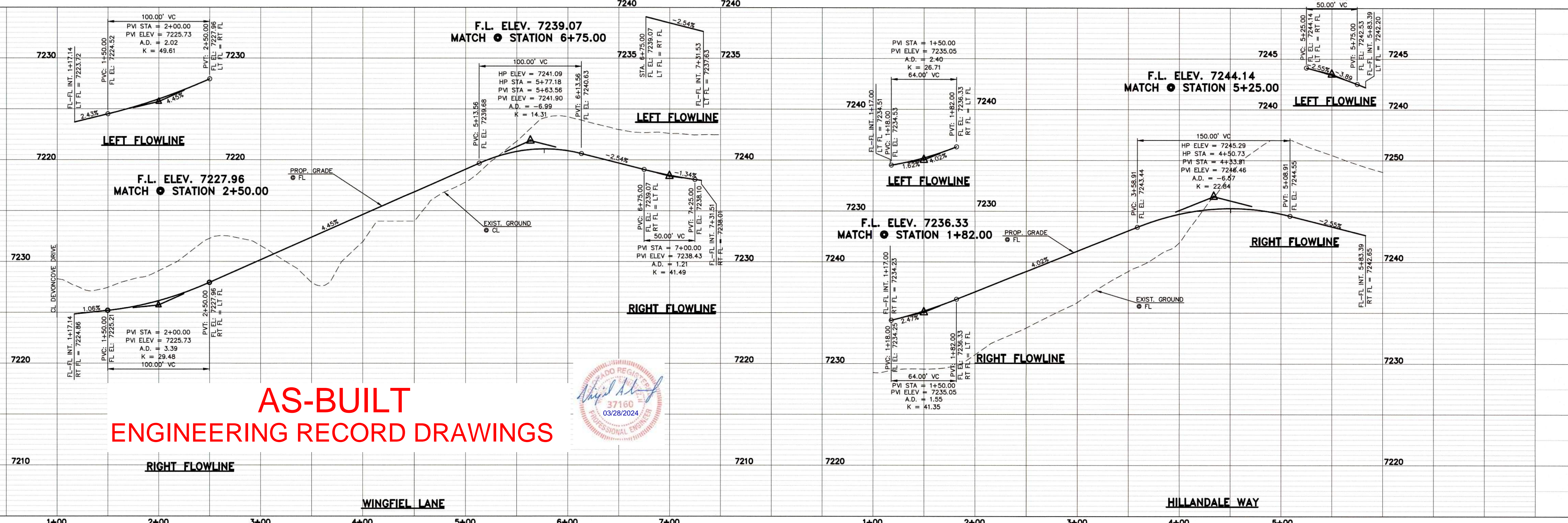
CURB DATA TABLE	LENGTH	RADIUS	DELTA
C5	29.99	20.00	85°54'26"
C6	30.35	20.00	86°57'02"
C7	31.12	20.00	89°08'48"
C8	31.79	20.00	91°04'17"
C27	32.44	20.00	92°36'22"
C28	32.44	20.00	92°36'22"
C29	30.47	20.00	87°17'52"
C30	32.60	20.00	93°23'38"

CENTERLINE LINE TABLE	LINE	LENGTH	BEARING
L6	470.26	S85°00'00"E	
L7	33.22	N57°20'00"W	
L8	21.25	N69°37'00"E	
L9	312.46	S85°00'00"E	
L10	32.03	N64°40'00"W	

CENTERLINE CURVE TABLE	CURVE	LENGTH	RADIUS	DELTA
C9	144.86	300.00	27°40'00"	
C10	28.19	300.00	5°23'00"	
C11	106.47	300.00	20°20'00"	



UNDERDRAIN NOTE:
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**AS-BUILT
 ENGINEERING RECORD DRAWINGS**



DESIGN DATA: WINGFIEL LANE/HILLANDALE WAY	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>
SIDEWALKS: WIDTH: 5'	THICKNESS: _____
LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	COMPOSITE SECTION: _____
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C	BASE: _____
R/W WIDTH: 50' MAT WIDTH: 24'	SUBGRADE STABILIZATION: _____
STREET TYPE: URBAN LOCAL LV HVEEM _____	CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/>
	TYPE: _____
	THICKNESS: _____

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-20-18

REVIEW: _____ DATE: 10/19/18

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORTON, COLORADO, P.E. #37155



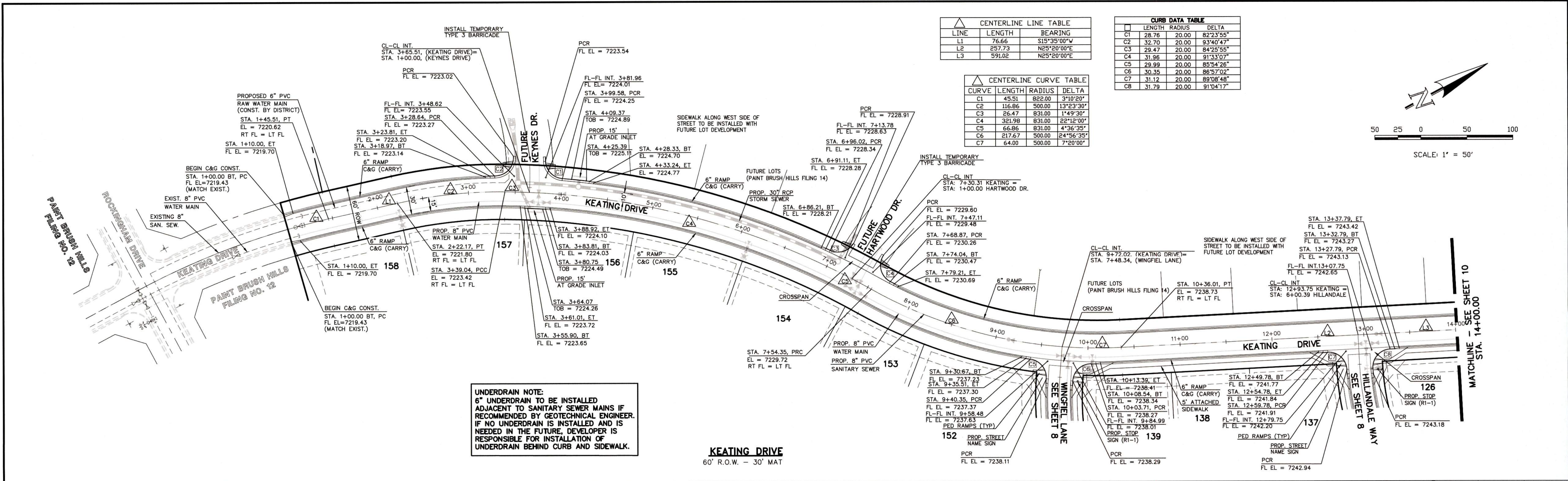
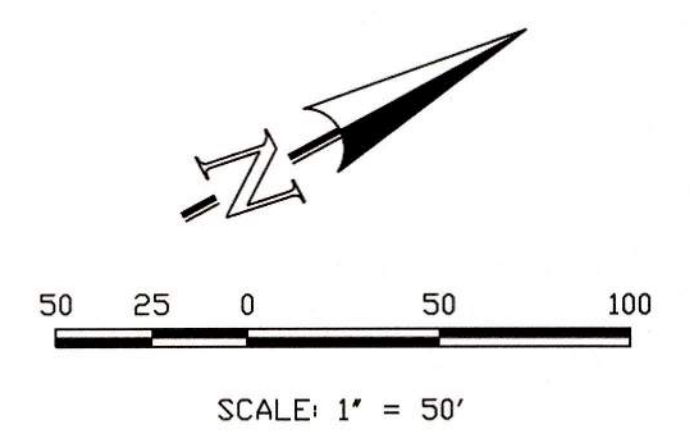
PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS			
STREET IMPROVEMENT PLANS WINGFIEL LANE / HILLANDALE WAY			
DESIGNED BY	MAW	SCALE	DATE
DRAWN BY	MAW	(H) 1" = 50'	SHEET 8 OF 47-18
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50

N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM\CD\205350-S06-SHEET 8.dwg, 10/19/2018 11:28:03 AM, 11

CENTERLINE LINE TABLE		
LINE	LENGTH	BEARING
L1	76.66	S15°35'00"W
L2	257.73	N25°20'00"E
L3	591.02	N25°20'00"E

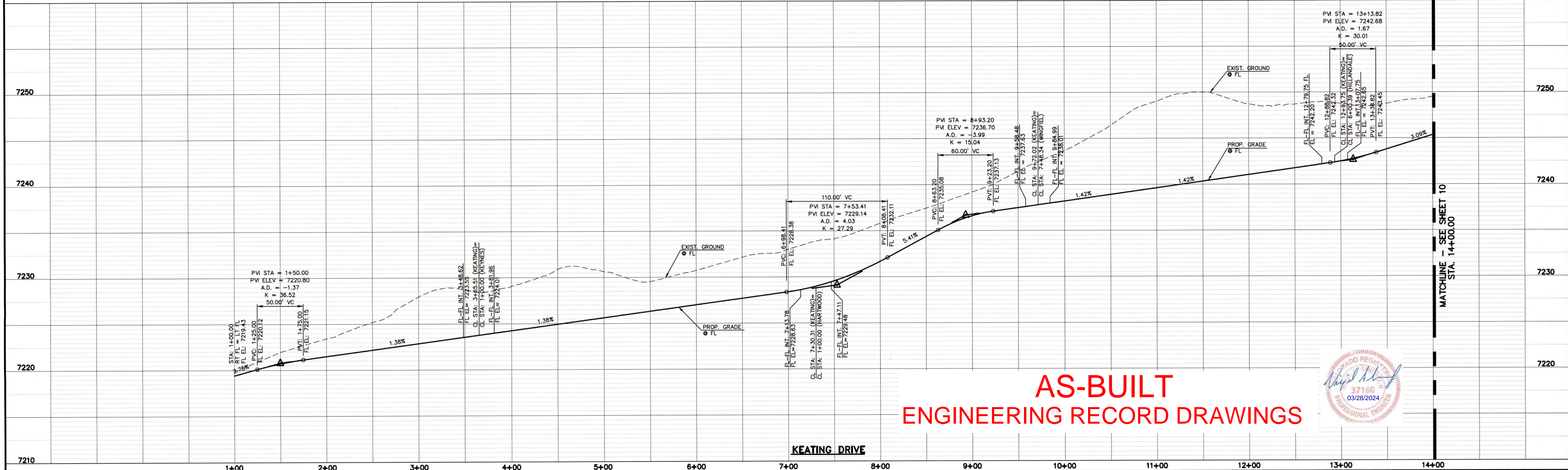
CURB DATA TABLE			
LINE	LENGTH	RADIUS	DELTA
C1	28.76	20.00	82°23'55"
C2	32.70	20.00	93°40'43"
C3	29.47	20.00	84°23'55"
C4	31.96	20.00	91°33'07"
C5	29.99	20.00	85°54'26"
C6	30.35	20.00	86°57'02"
C7	31.12	20.00	89°08'48"
C8	31.79	20.00	91°04'17"

CENTERLINE CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	45.51	822.00	3°10'20"
C2	116.86	500.00	13°23'30"
C3	26.47	831.00	1°49'30"
C4	321.98	831.00	22°12'00"
C5	66.86	831.00	4°36'35"
C6	217.67	500.00	24°56'35"
C7	64.00	500.00	7°20'00"



UNDERDRAIN NOTE:
 6" UNDERDRAIN TO BE INSTALLED ADJACENT TO SANITARY SEWER MAINS IF RECOMMENDED BY GEOTECHNICAL ENGINEER. IF NO UNDERDRAIN IS INSTALLED AND IS NEEDED IN THE FUTURE, DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF UNDERDRAIN BEHIND CURB AND SIDEWALK.

KEATING DRIVE
 60' R.O.W. - 30' MAT

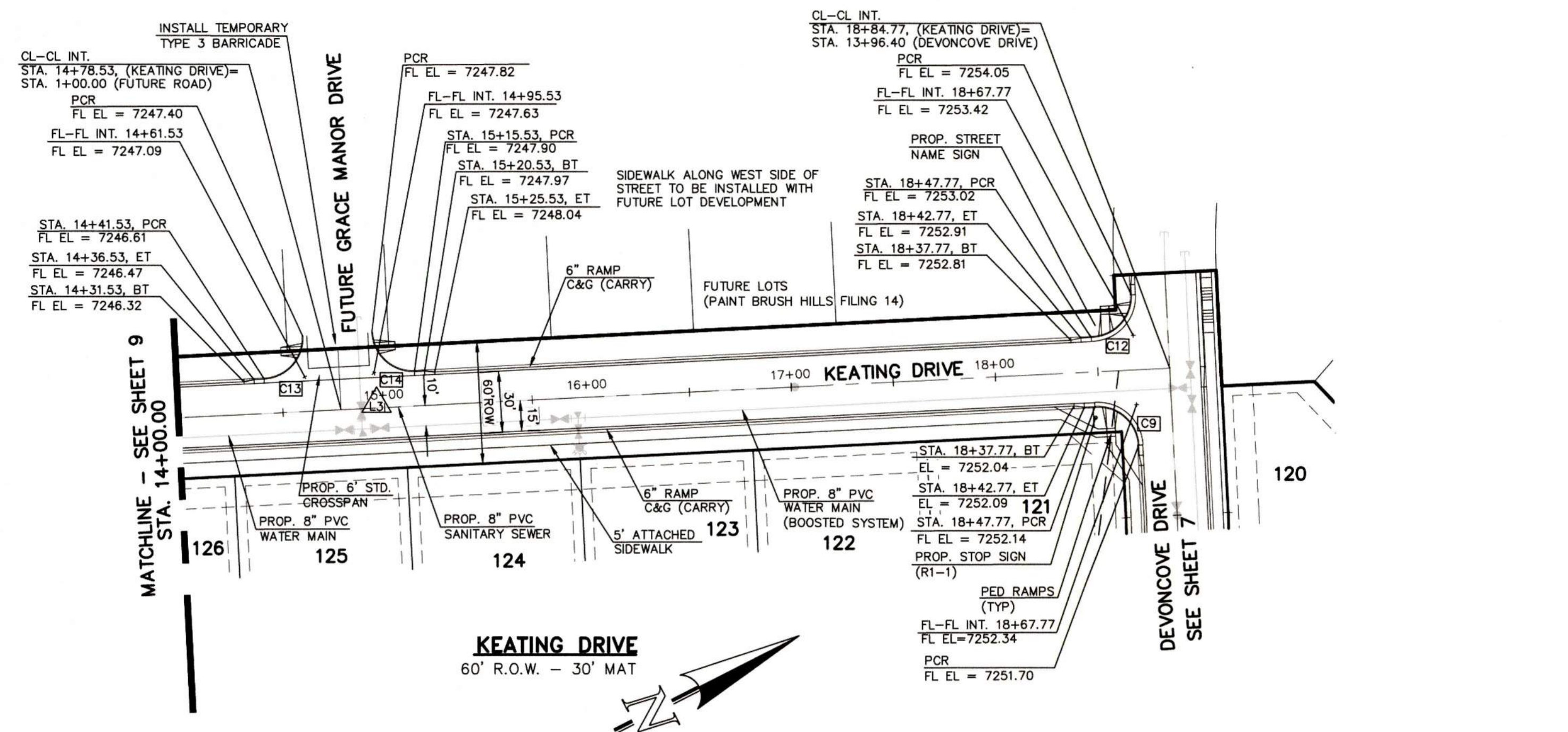


**AS-BUILT
 ENGINEERING RECORD DRAWINGS**



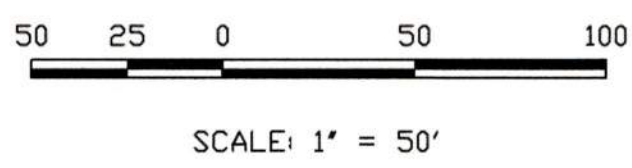
DESIGN DATA: KEATING DRIVE SIDEWALKS: WIDTH: 5' LOCATION: <input type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C R/W WIDTH: 60' MAT WIDTH: 30' STREET TYPE: URBAN LOCAL HVEEM _____	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS _____ COMPOSITE SECTION _____ HMA _____ BASE _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH.: <input type="checkbox"/> TYPE: _____ THICKNESS _____	48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NO. REVISION 1 REVISED PER COUNTY COMMENTS DATE 9-20-18	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC MARC A. WHORTON, COLORADO P.E. #37155 DATE: 10/19/18	CLASSIC CONSULTING 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)	PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS STREET IMPROVEMENT PLANS KEATING DRIVE	DESIGNED BY: MAW DRAWN BY: MAW CHECKED BY: _____	SCALE: (H) 1" = 50' (V) 1" = 5' SHEET 9 OF 18 JOB NO. 2053.50
						DESIGNER: _____ DATE: 7-20-18		

N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND SIDEWALK\205350-307-SHEET 9.dwg, 10/19/2018 11:29:30 AM, 1:1

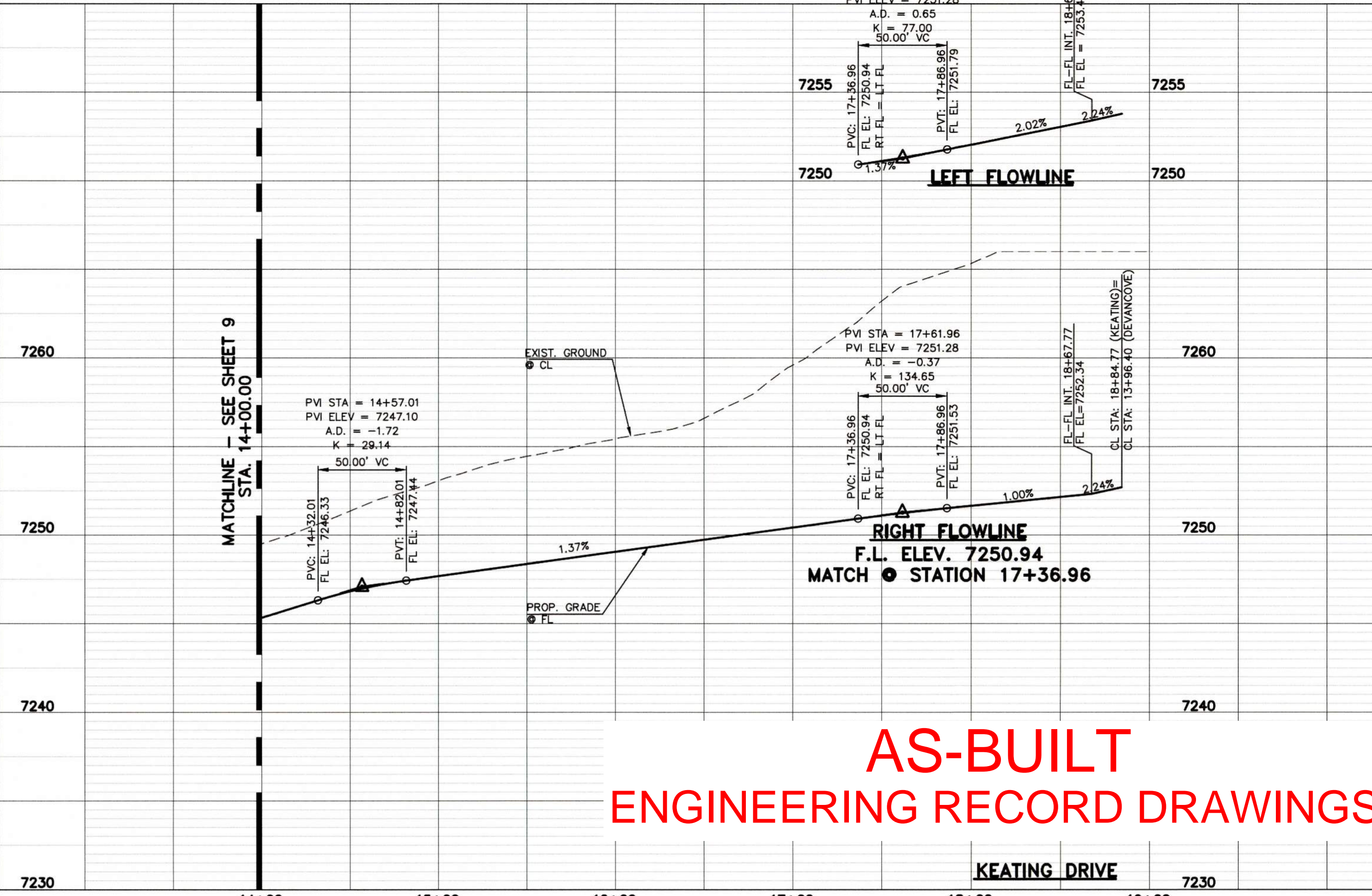
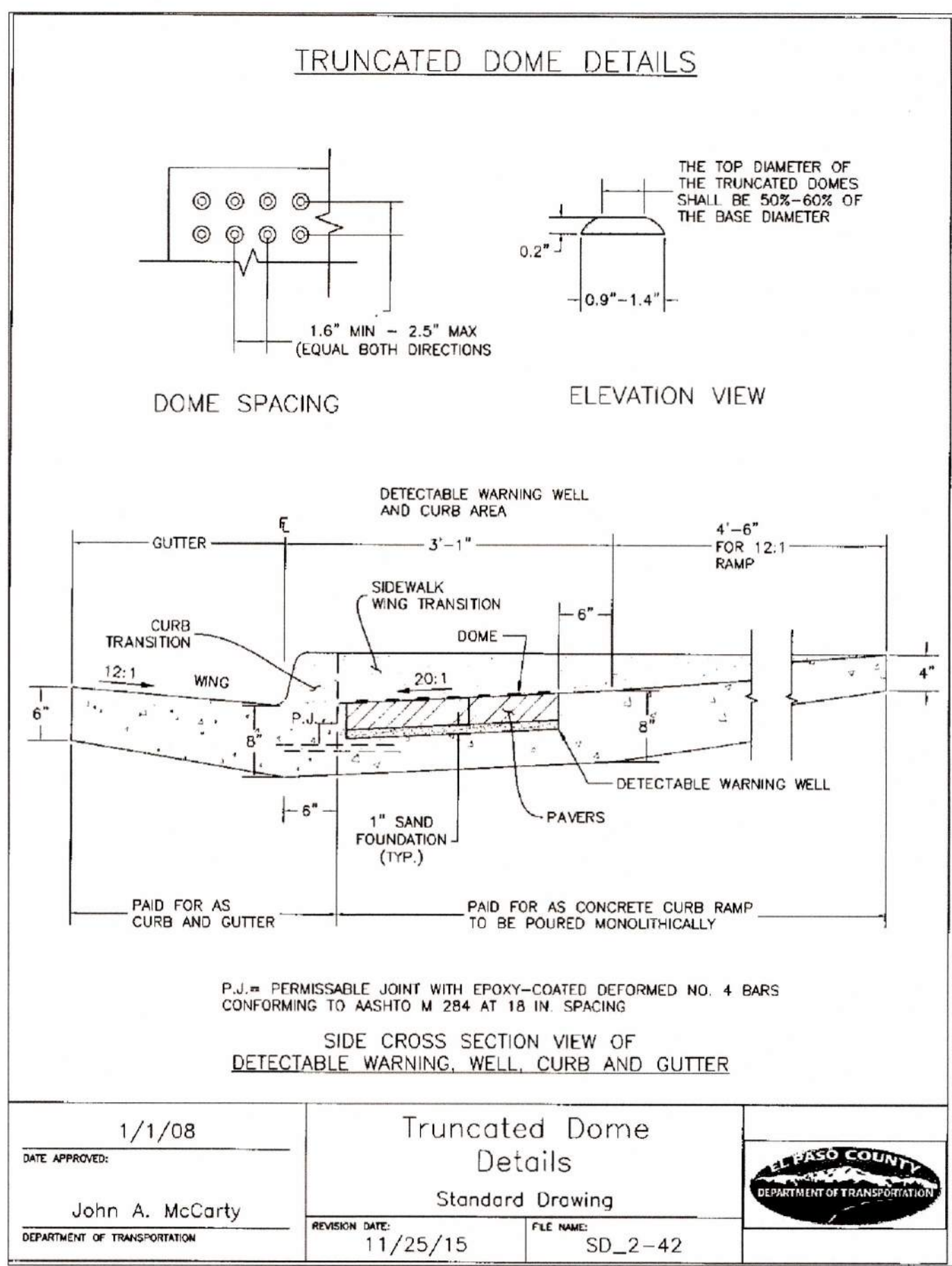
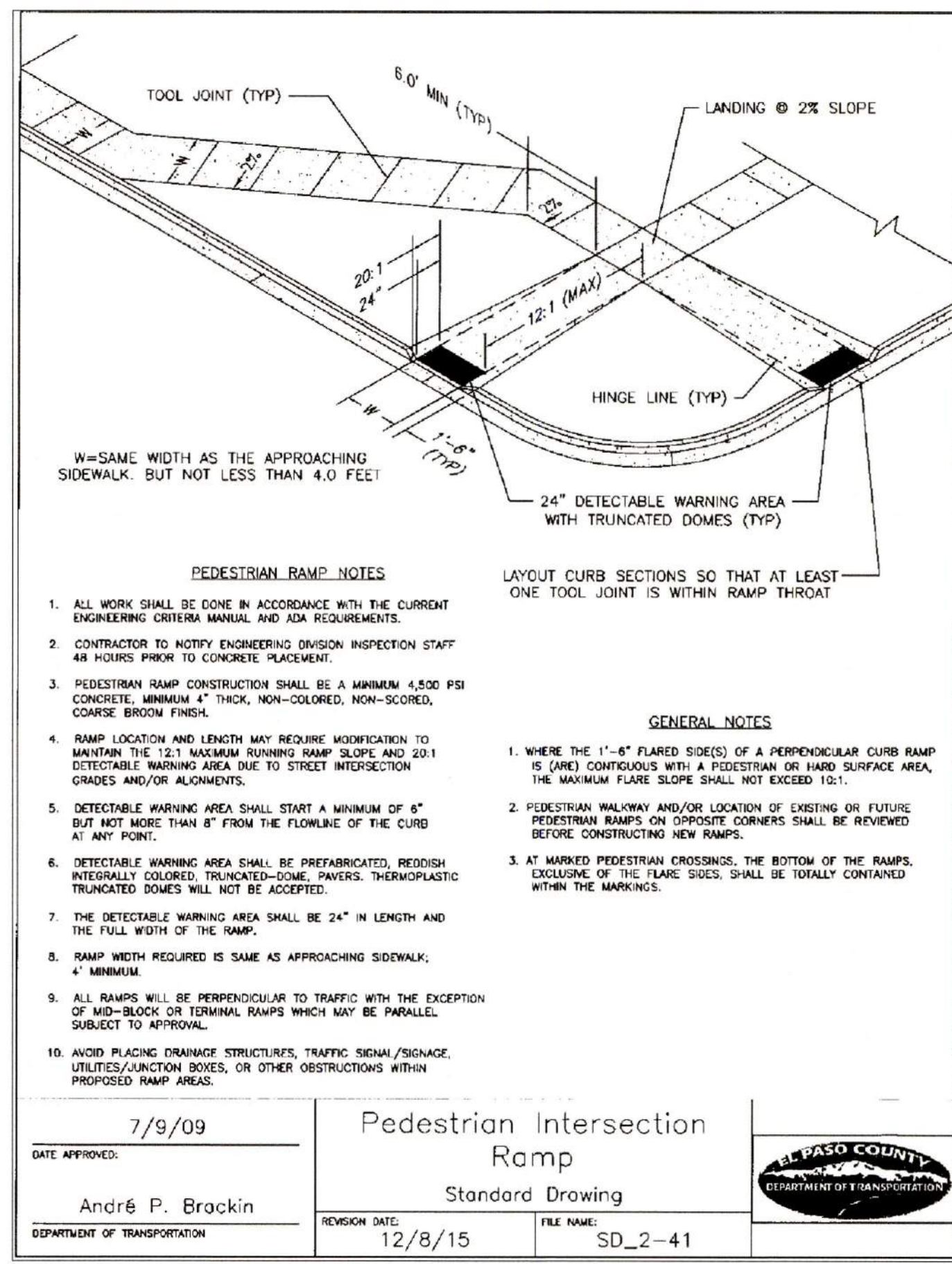


LINE	LENGTH	BEARING
L3	591.02	N25°20'00"E

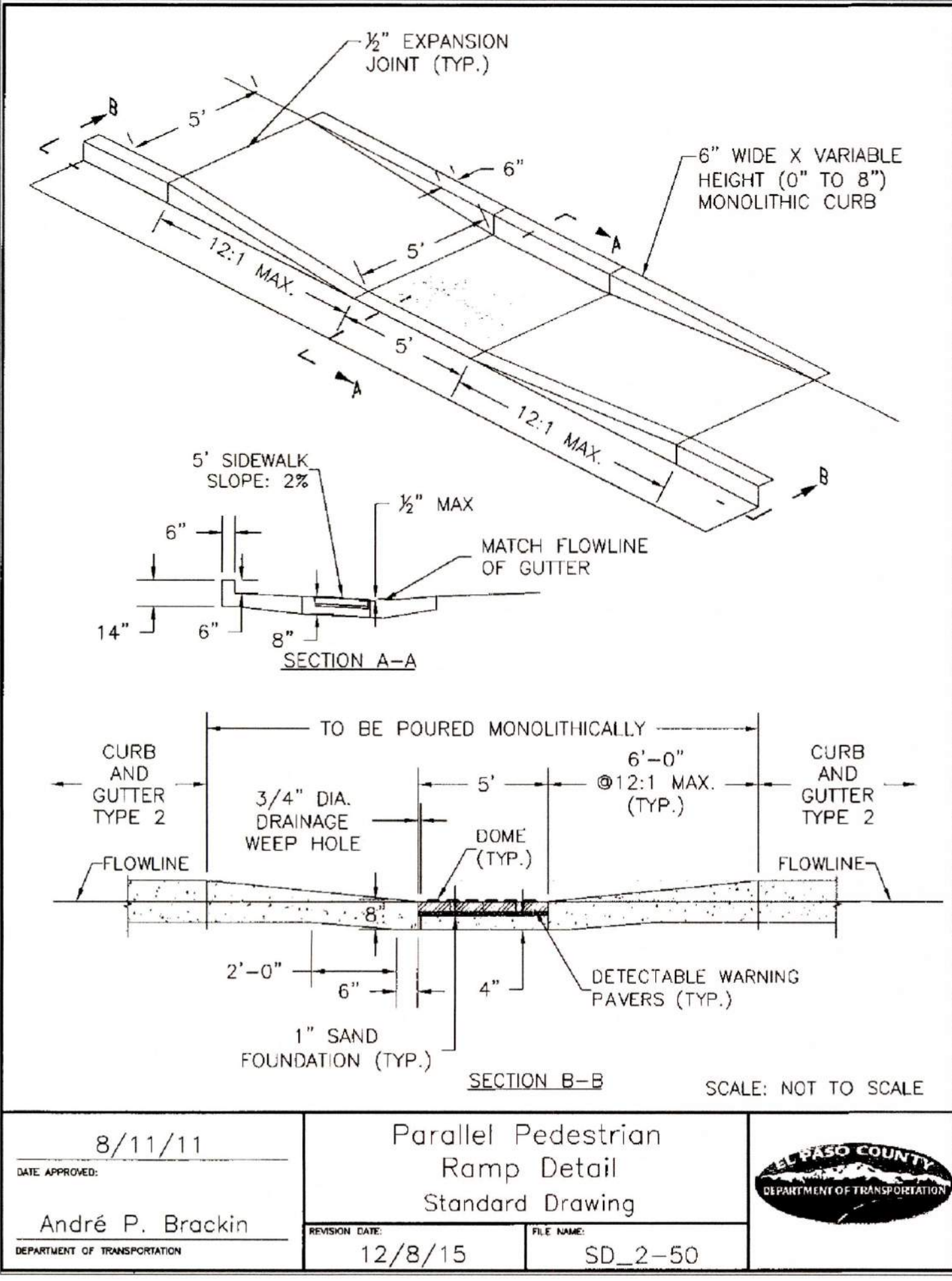
LINE	LENGTH	RADIUS	DELTA
C9	31.42	20.00	90°00'00"
C12	31.42	20.00	90°00'00"
C13	31.42	20.00	90°00'00"
C14	31.42	20.00	90°00'00"



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AS-BUILT ENGINEERING RECORD DRAWINGS



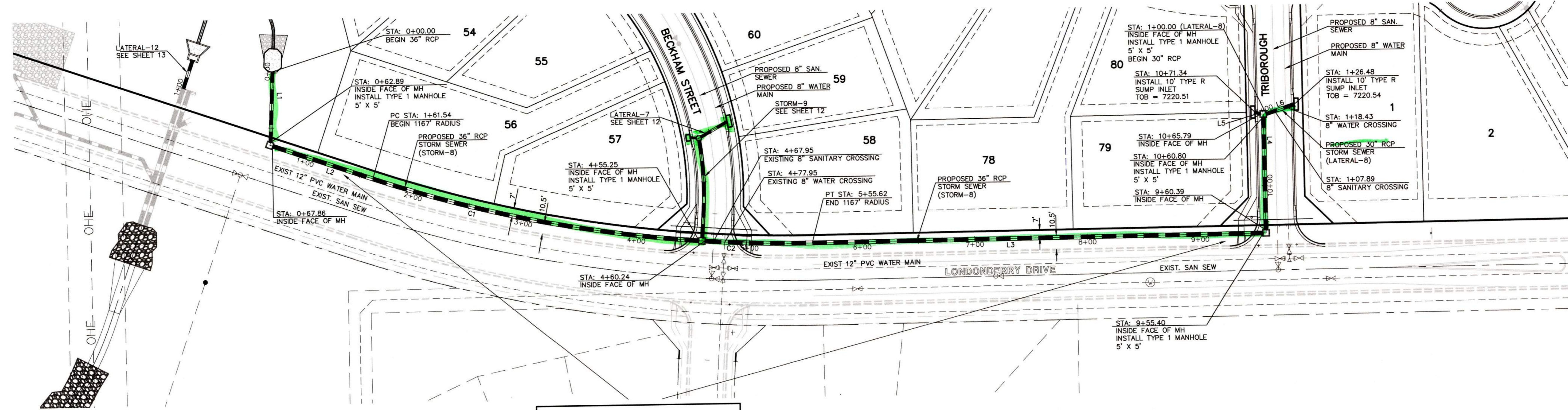
DESIGN DATA: KEATING DRIVE	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>	NO. REVISION	DATE
SIDEWALKS: WIDTH: 5'	THICKNESS:	1	9-20-18
LOCATION: <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached	COMPOSITE SECTION: HMA	REVISOR: MARC A. WHORTON, COLORADO P.E. #37155	
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> A <input type="checkbox"/> C	BASE SUBGRADE STABILIZATION: TYPE: _____	DATE: 10/19/18	
R/W WIDTH: 60' MAT WIDTH: 30'	CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/>	REVIEW: PREPARED UNDER INDIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC	
STREET TYPE: URBAN LOCAL HVEM _____	THICKNESS: _____	DATE: 10/19/18	

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811	
UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	
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DESIGNED BY: MAW	SCALE: (H) 1" = 50'	DATE: 7-20-18
DRAWN BY: MAW	SCALE: (V) 1" = 5'	SHEET 10 OF 17-18
CHECKED BY:	SCALE:	JOB NO. 2053.50

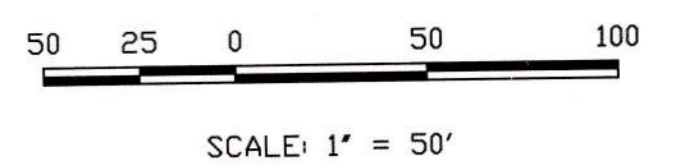
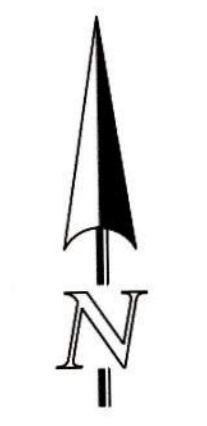


PAINT BRUSH HILLS FILING 13E CONSTRUCTION PLANS			
STREET IMPROVEMENT PLANS			
KEATING DRIVE			
DESIGNED BY: MAW	SCALE: (H) 1" = 50'	DATE: 7-20-18	CLASSIC CONSULTING
DRAWN BY: MAW	SCALE: (V) 1" = 5'	SHEET 10 OF 17-18	
CHECKED BY:	SCALE:	JOB NO. 2053.50	



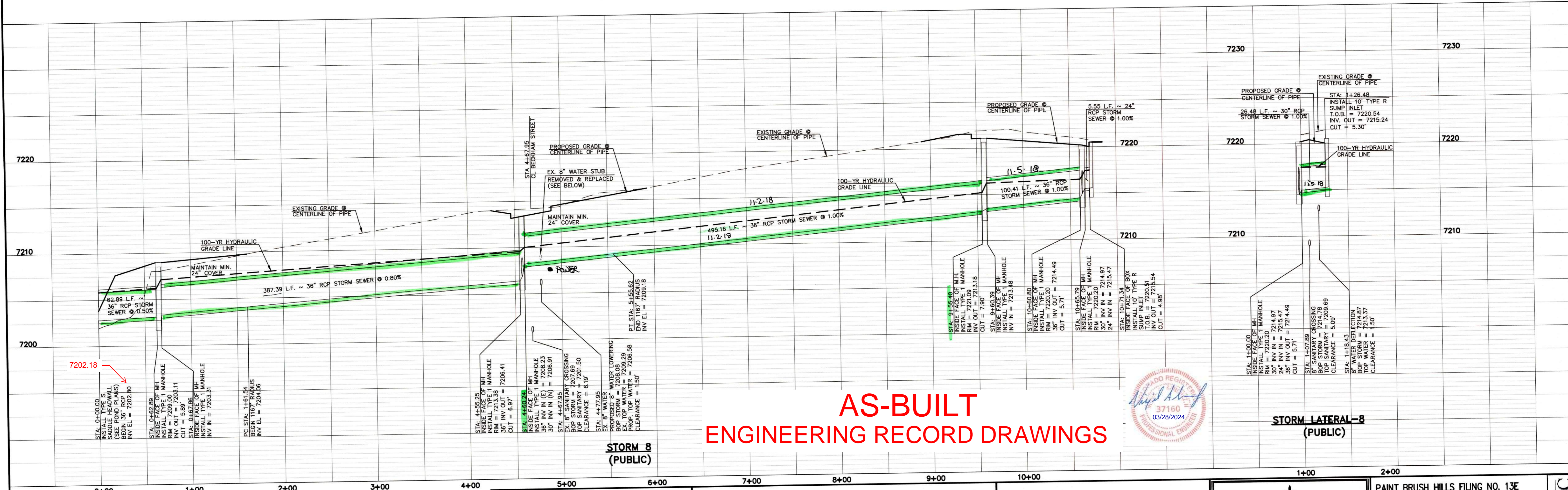
STORM LINE TABLE		
LINE	LENGTH	BEARING
L1	62.89'	S02°22'24"W
L2	93.69'	S71°07'24"E
L3	399.78'	N89°31'44"E
L4	100.41'	N00°30'00"W
L5	5.55'	N69°22'41"W
L6	26.48'	N71°27'12"E

STORM CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	293.71'	1167.00'	14°25'12"
C2	95.38'	1167.00'	4°40'59"



UTILITY NOTE:
 BASED ON RECENT UTILITY LOCATES ALONG NORTH SIDE OF STREET, CONTRACTOR TO CONFIRM EXACT LOCATIONS OF ANY EXISTING UTILITIES PRIOR TO EXCAVATION FOR STORM SEWER WITHIN THE RIGHT-OF-WAY OF LONDONDERRY DR.

STORM-8 & LATERAL-8 (PUBLIC)



AS-BUILT ENGINEERING RECORD DRAWINGS



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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	8-30-18

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WHORSTON, COLORADO P.E. #37155 DATE 10/19/18

CLASSIC CONSULTING

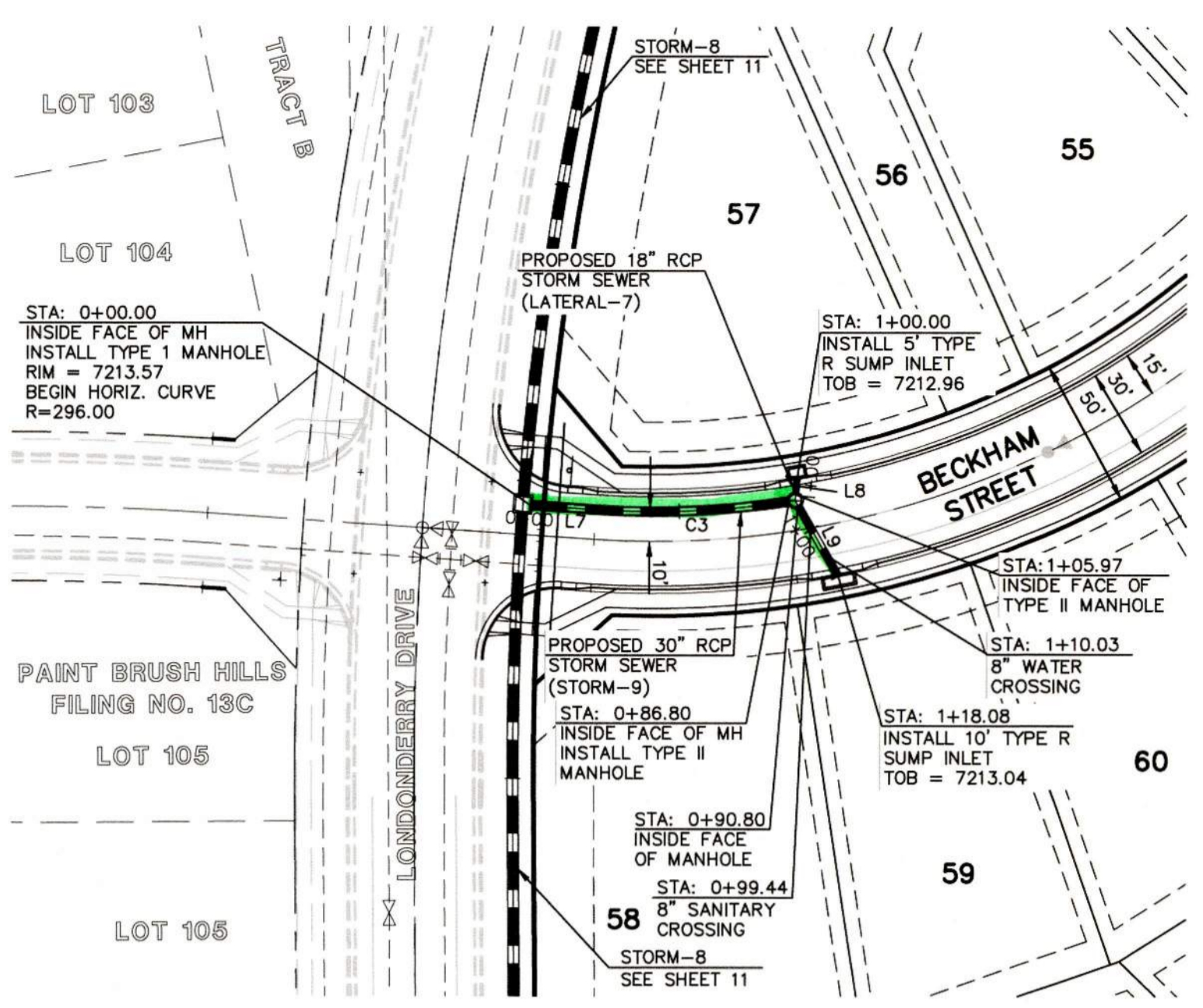
619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903

(719) 785-0780
 (719) 785-0799 (fax)

PAINT BRUSH HILLS FILING NO. 13E
 CONSTRUCTION PLANS
 STORM SEWER PLAN

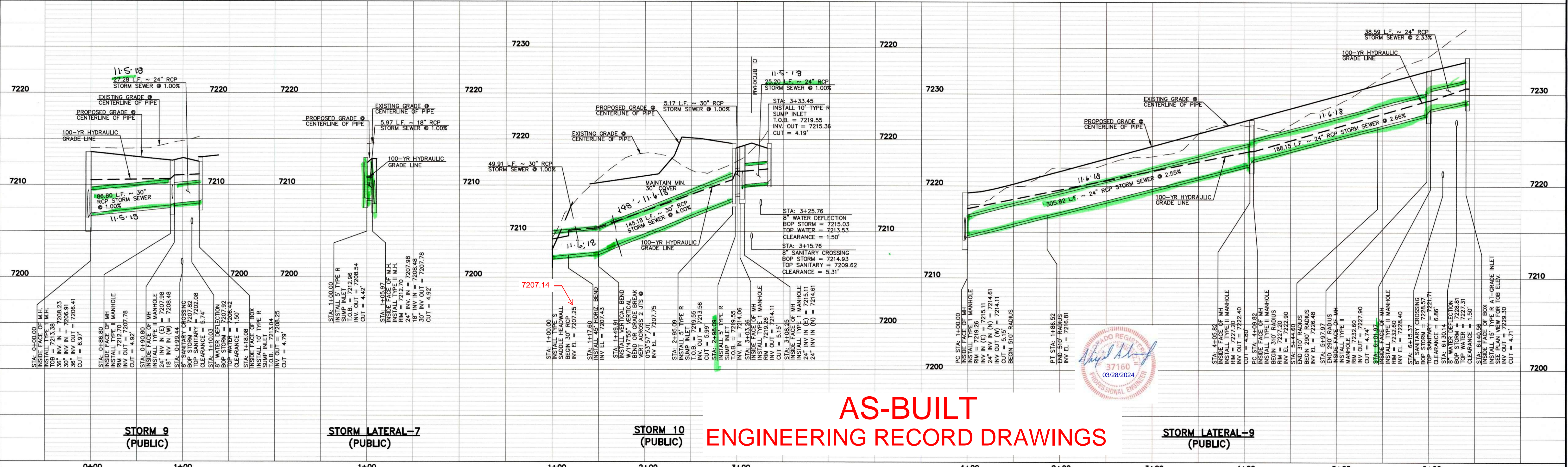
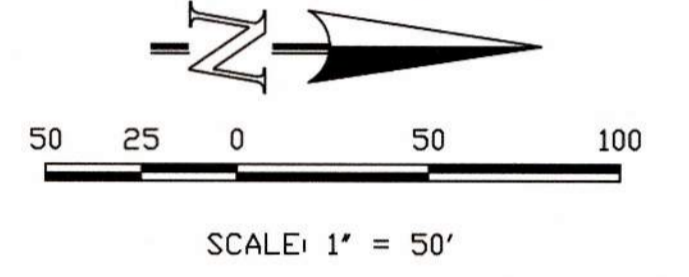
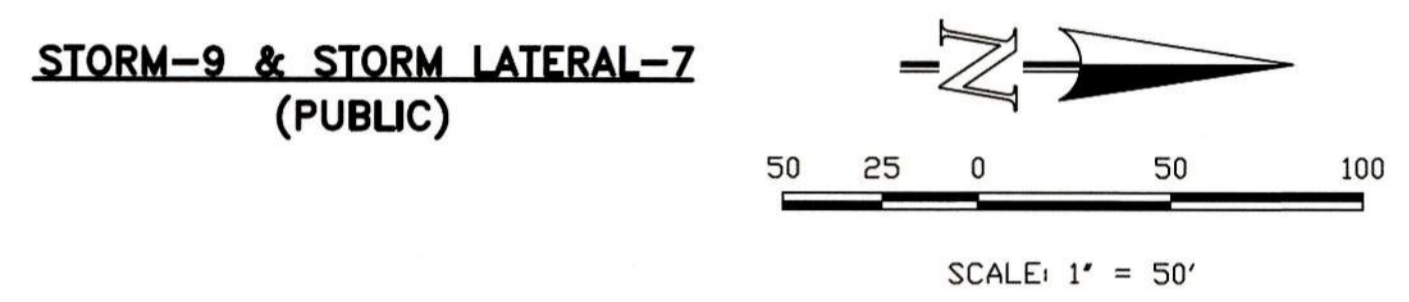
DESIGNED BY	ESO	SCALE	DATE
DESIGNED BY	ESO	(H) 1" = 50'	7-20-18
DRAWN BY	ESO	(V) 1" = 5'	SHEET 11 OF 47-18
CHECKED BY			JOB NO. 2053.50

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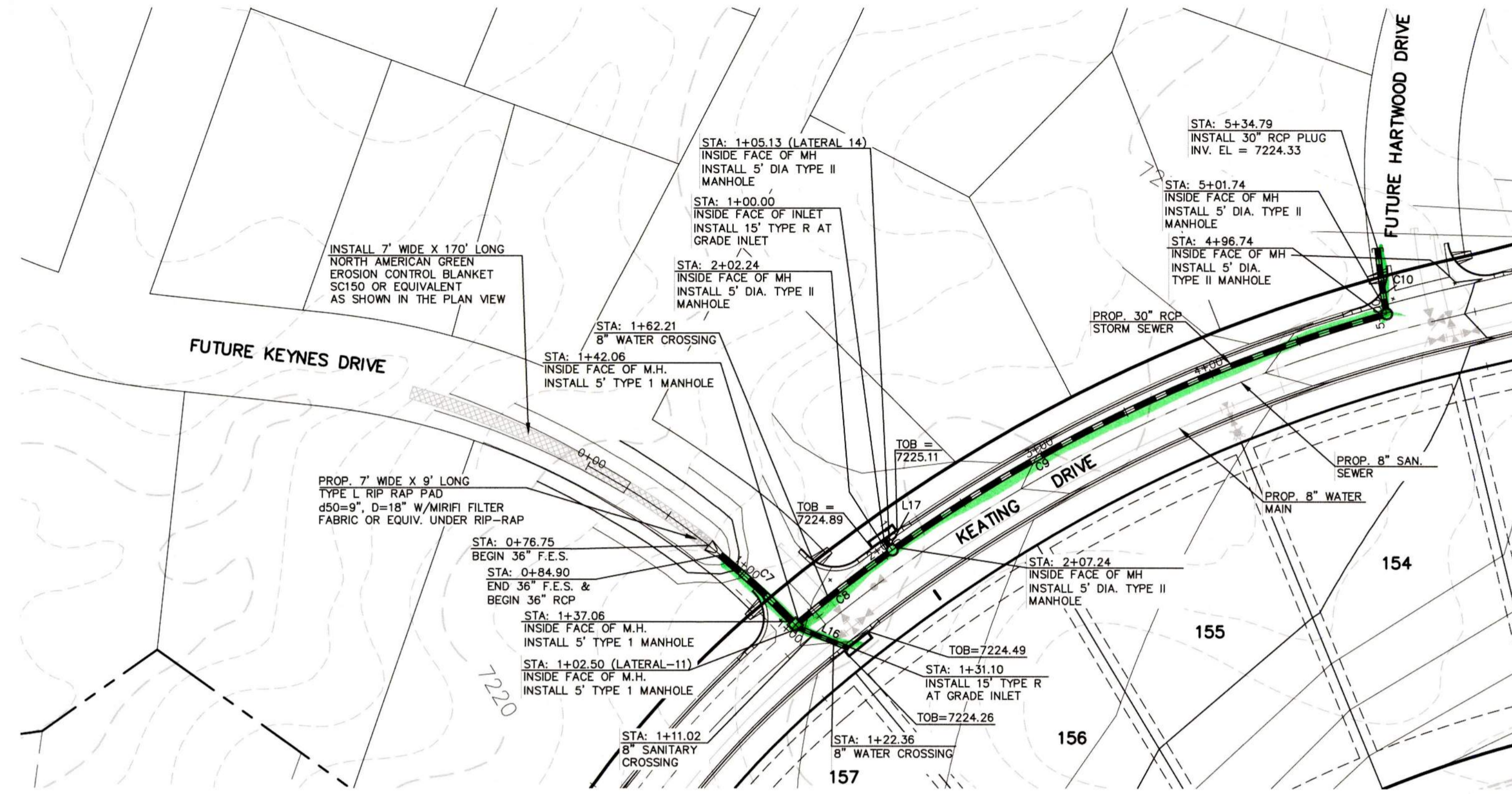
LINE	LENGTH	BEARING
L7	22.07'	N03°30'00"E
L8	5.97'	N84°03'30"W
L9	27.28'	N60°19'23"E
L10	17.60'	N41°30'00"E
L11	173.16'	N86°30'00"E
L12	5.17'	N86°30'00"E
L13	25.20'	N86°30'00"E
L14	219.30'	N06°30'00"E
L15	38.59'	N60°10'23"E

CURVE	LENGTH	RADIUS	DELTA
C3	64.73'	290.00'	12°47'18"
C4	86.52'	510.00'	09°43'11"
C5	134.79'	310.00'	24°57'42"
C6	53.36'	290.00'	10°32'37"



AS-BUILT ENGINEERING RECORD DRAWINGS

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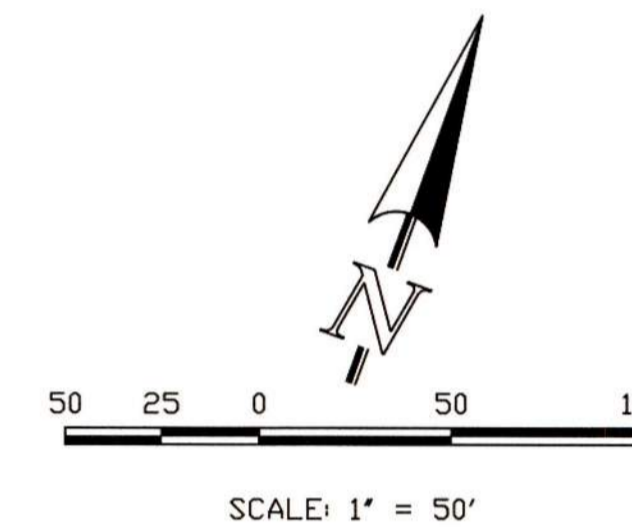


STORM LINE TABLE		
LINE	LENGTH	BEARING
L16	28.60'	S87°41'10"E
L17	5.13'	N55°37'24"W

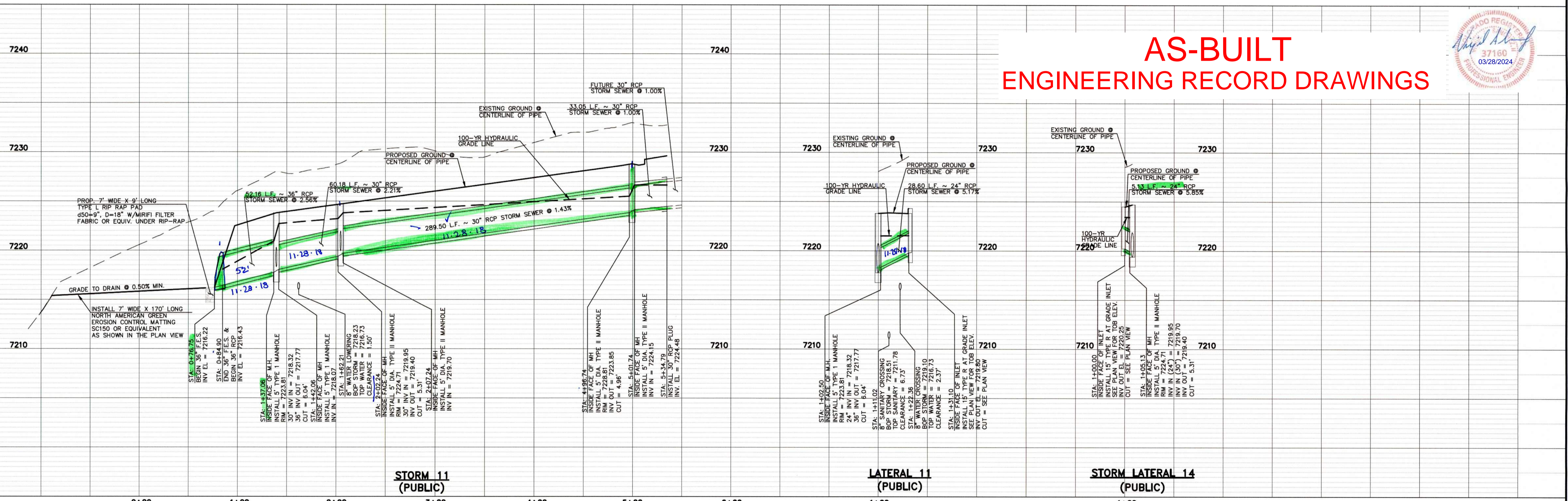
STORM CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C7	52.16'	452.00'	06°36'44"
C8	60.18'	841.00'	04°36'00"
C9	289.50'	841.00'	19°43'22"
C10	33.05'	373.00'	05°04'35"

30" 52.16 + 290 +
24" 27.5 +

STORM-11 & STORM LATERAL 11 & LATERAL 14 (PUBLIC)



AS-BUILT ENGINEERING RECORD DRAWINGS



STORM 11 (PUBLIC)

LATERAL 11 (PUBLIC)

STORM LATERAL 14 (PUBLIC)

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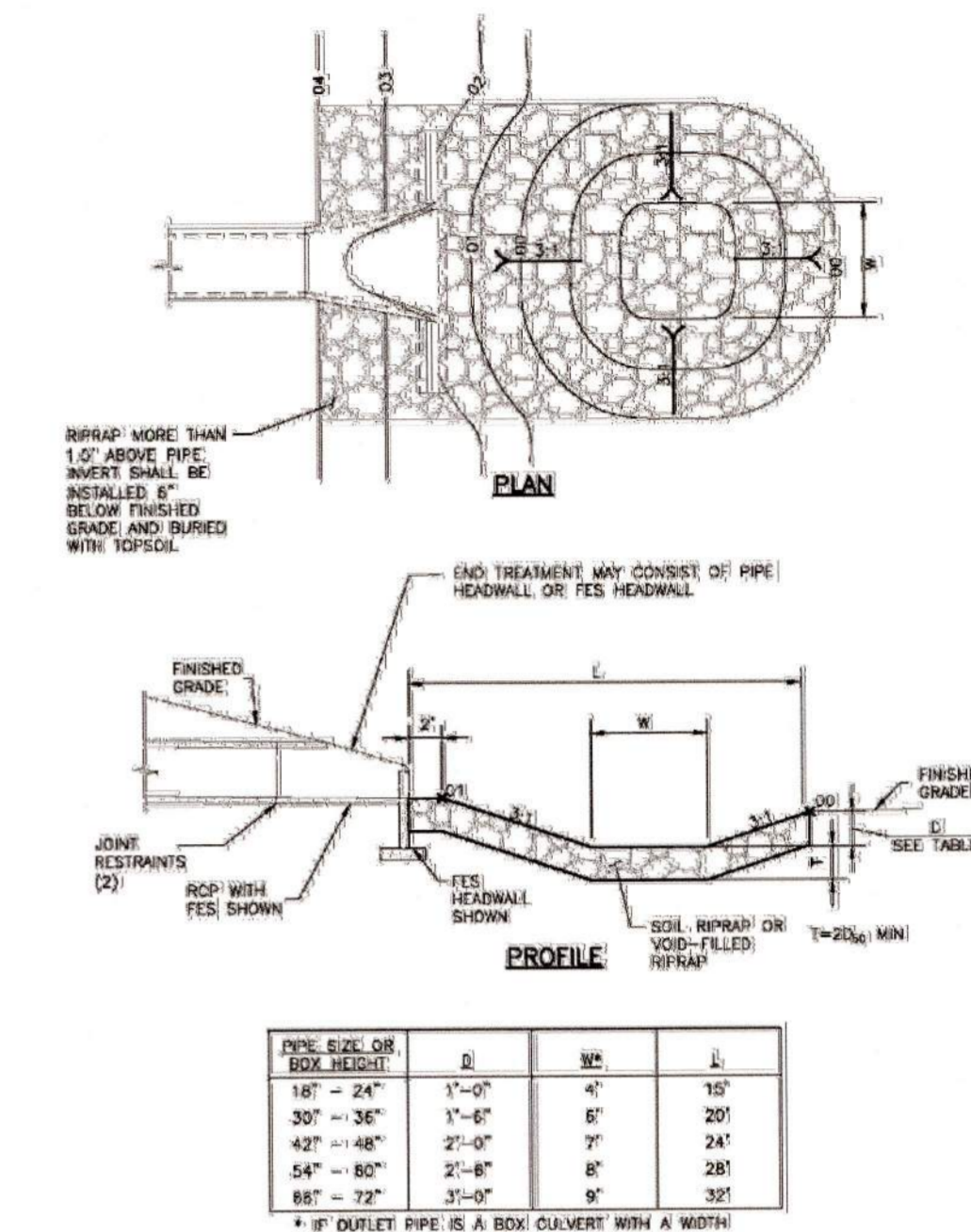
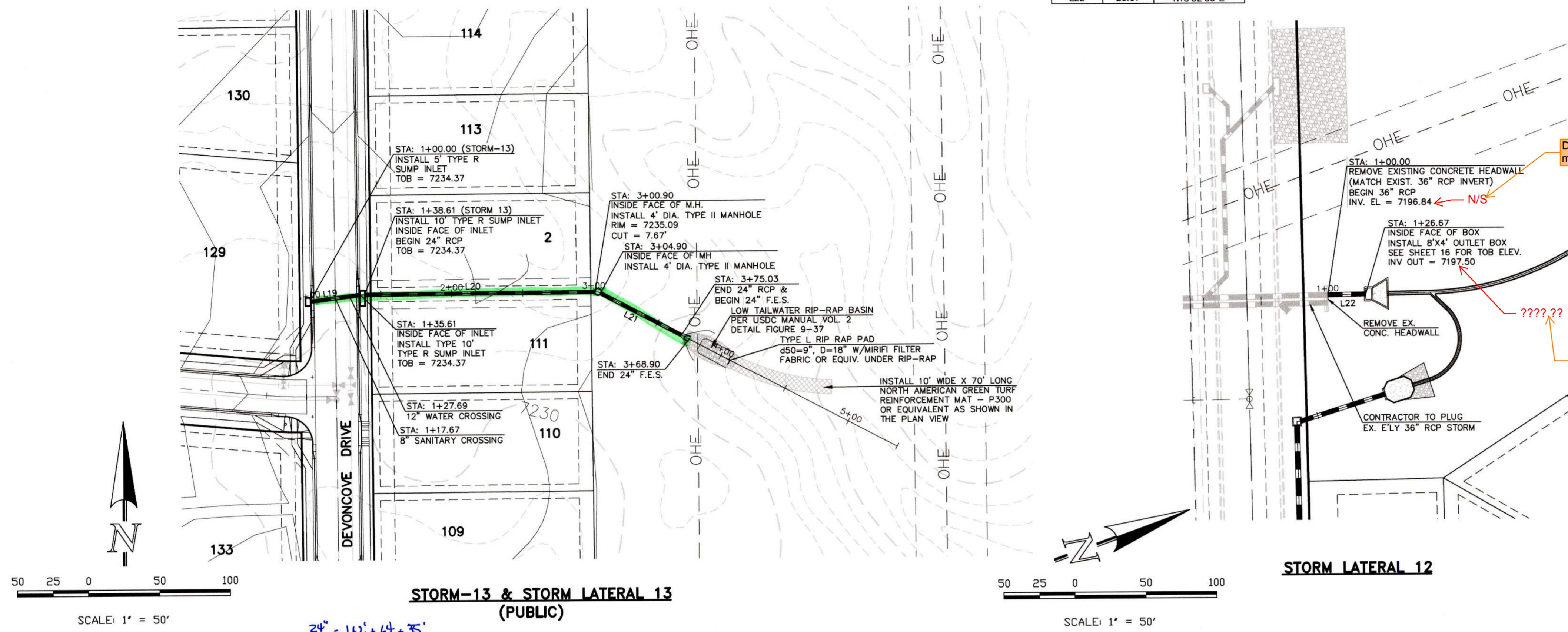
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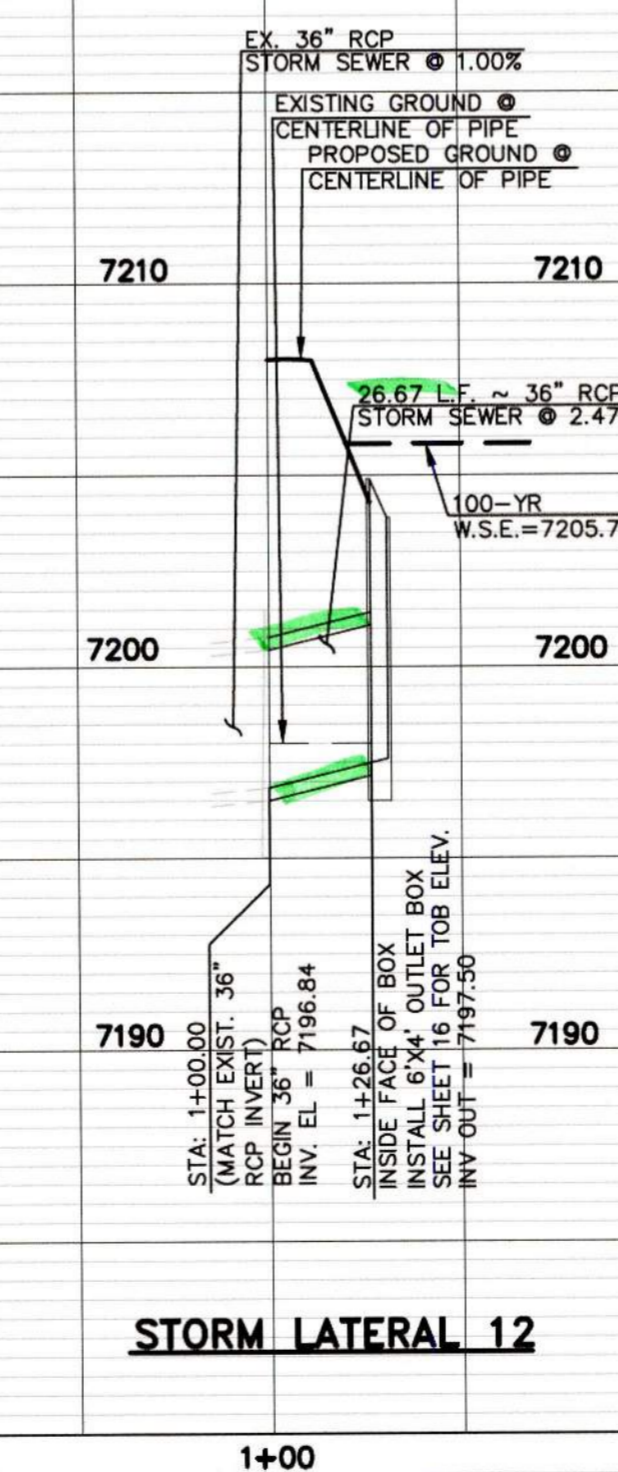
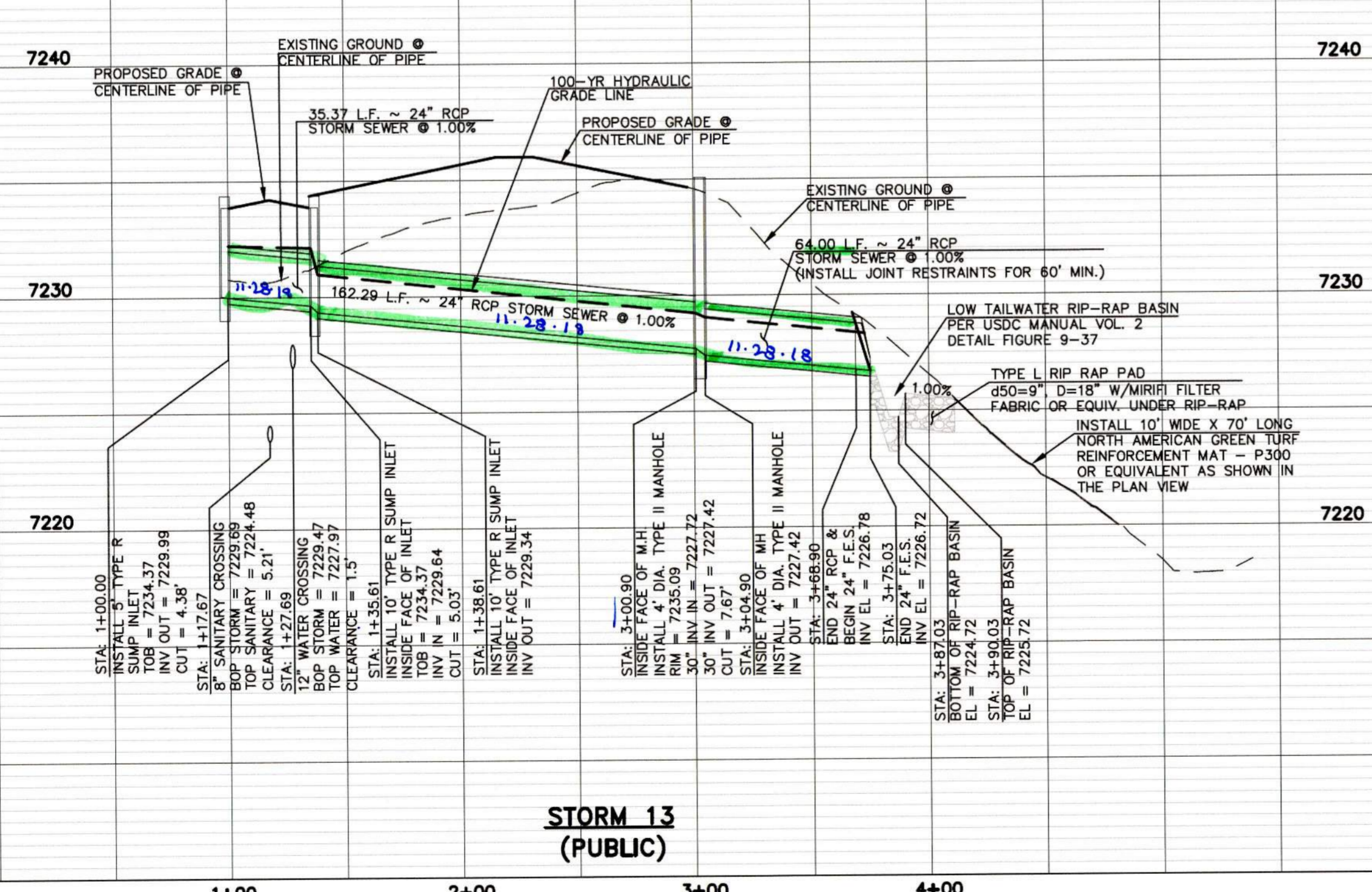
PAINT BRUSH HILLS FILING NO. 13E
CONSTRUCTION PLANS
STORM SEWER PLAN

DESIGNED BY	SCALE	DATE
ESO	(H) 1" = 50'	8-10-12
DRAWN BY	SCALE	SHEET
ESO	(V) 1" = 5'	13 OF 42-18
CHECKED BY	SCALE	JOB NO.
	(V) 1" = 5'	2053.50

LINE	LENGTH	BEARING
L19	35.61'	N82°36'44"E
L20	162.27'	N89°37'00"E
L21	64.00'	S62°10'18"E
L22	26.67'	N18°52'36"E



AS-BUILT ENGINEERING RECORD DRAWINGS



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REVIEW:

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MARC A. WHORTON, COLORADO P.E. #37155

10/19/18

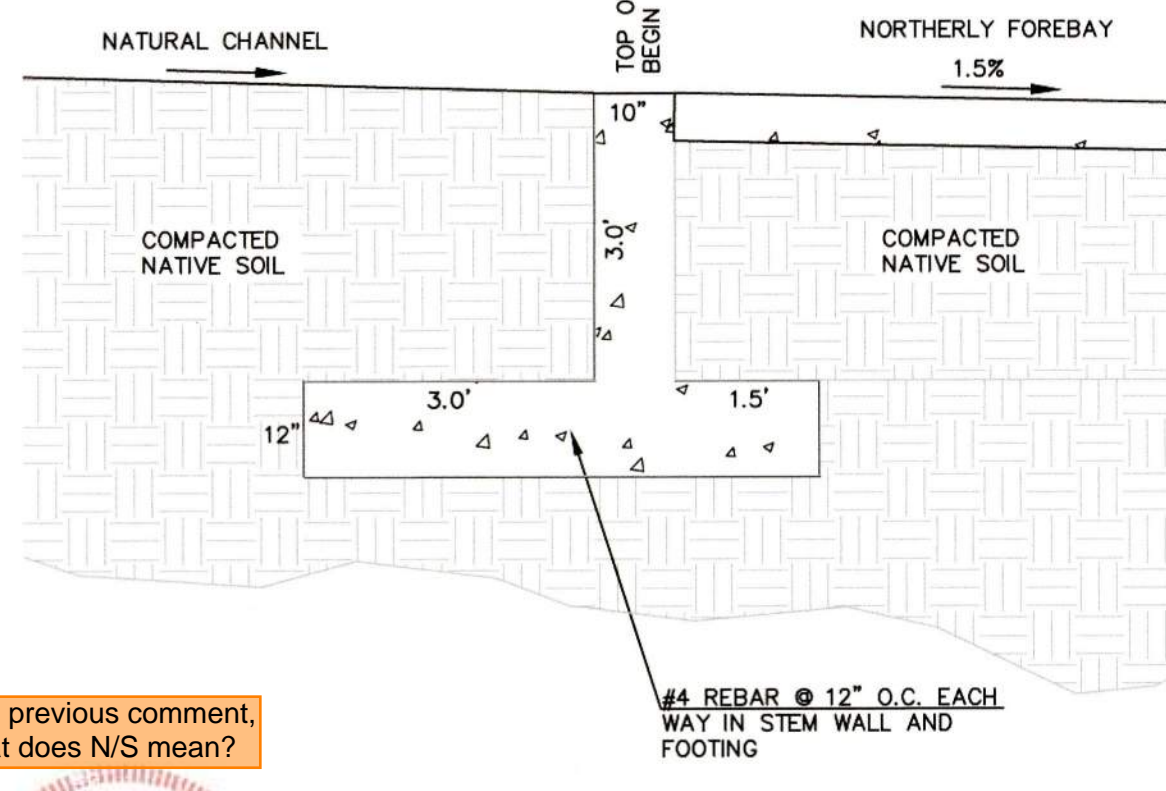
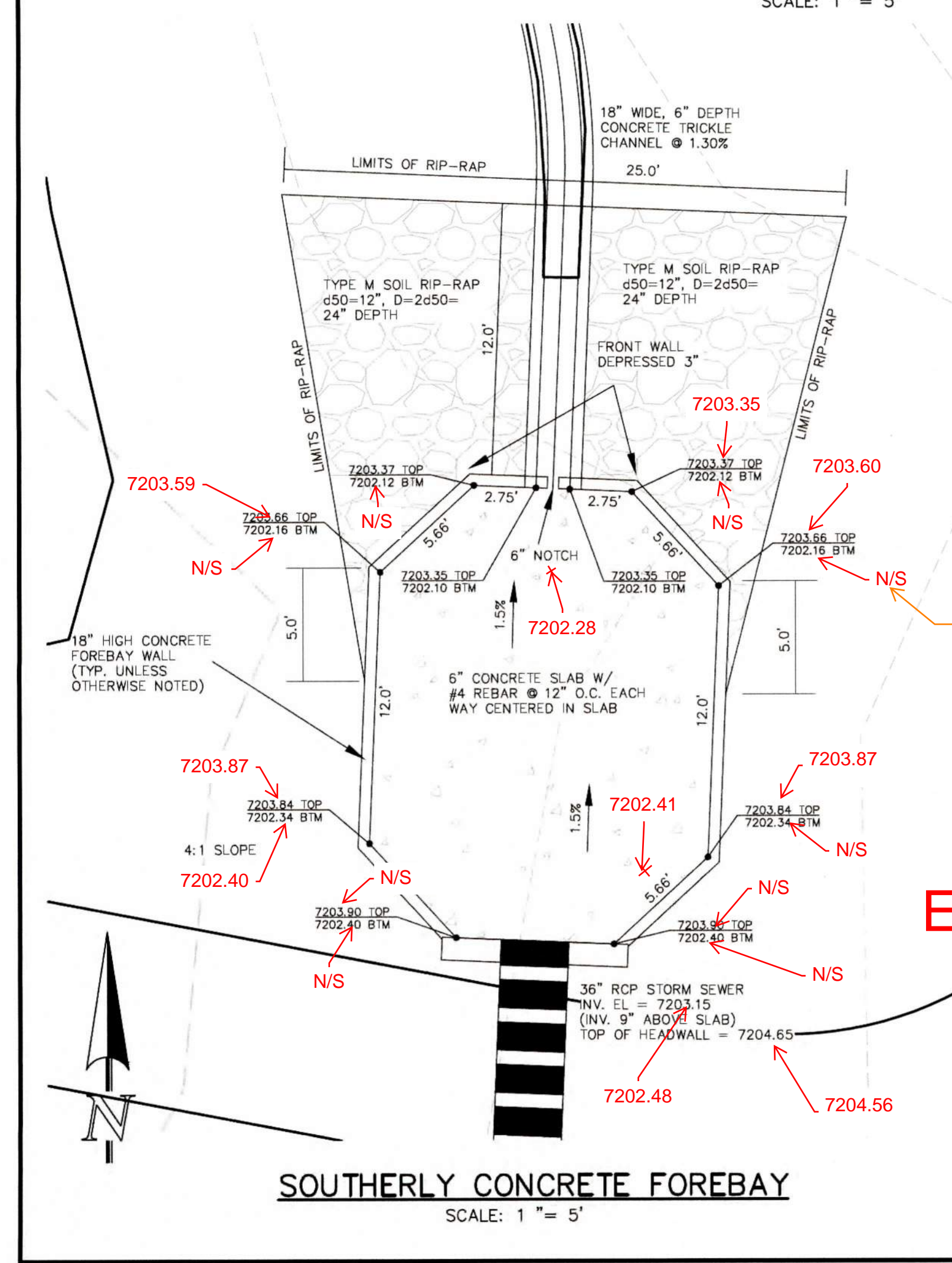
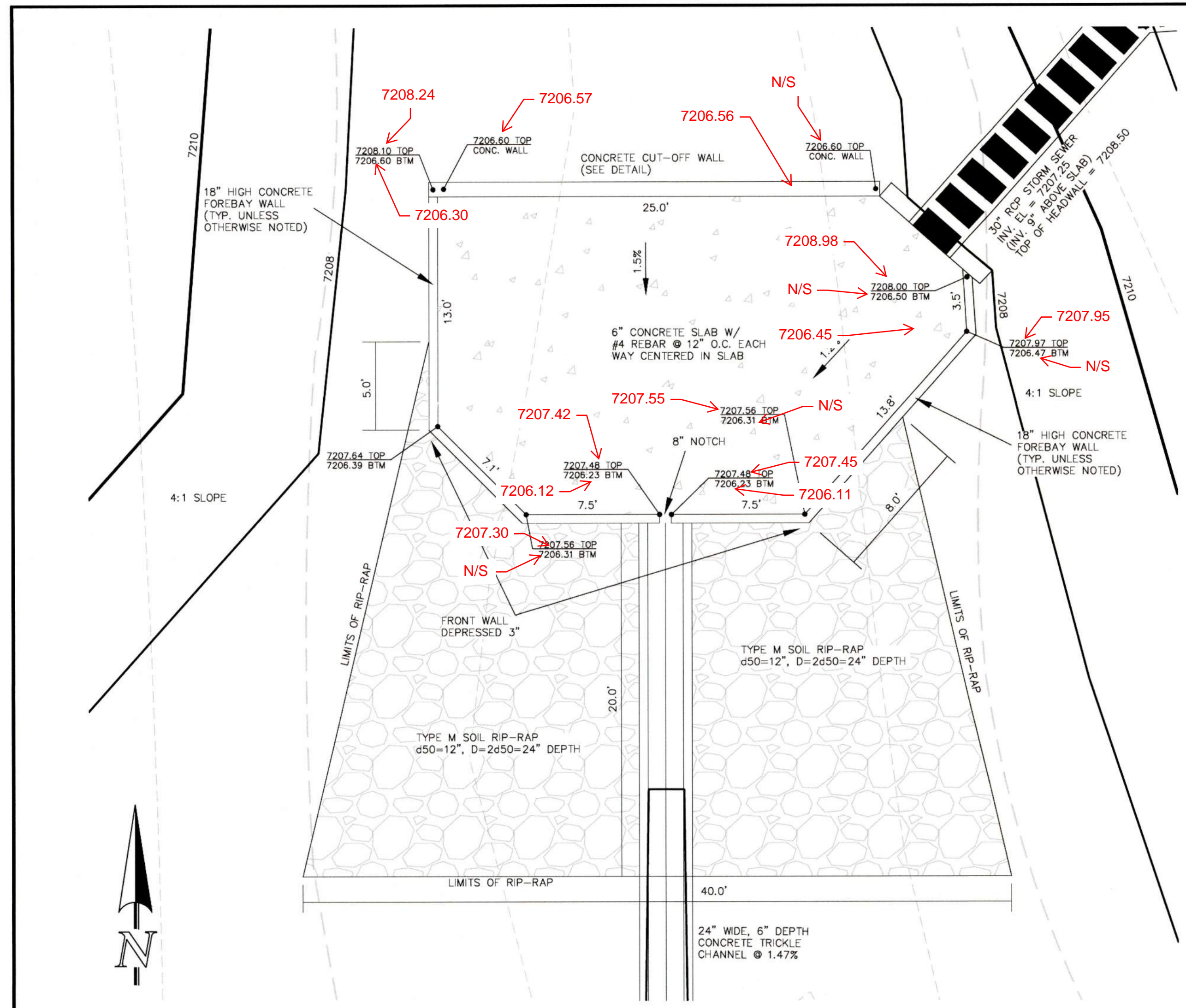
CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719)785-0790
 (719)785-0799(Fax)

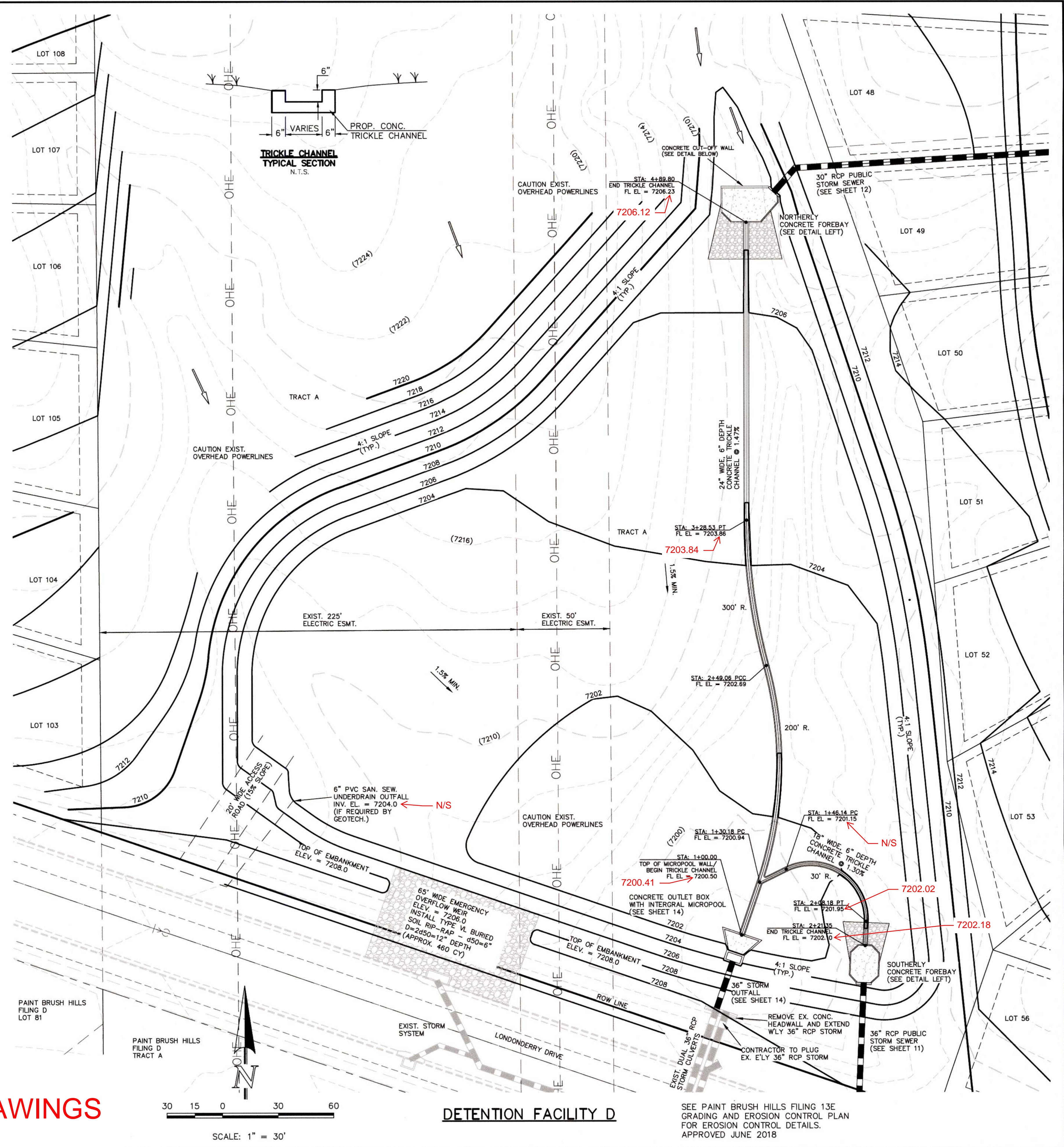
PAINT BRUSH HILLS FILING NO. 13E
 CONSTRUCTION PLANS
 STORM SEWER PLAN

DESIGNED BY	ESO	SCALE	DATE	8-10-12
DRAWN BY	ESO	(H) 1" = 50'	SHEET 14 OF 47-18	
CHECKED BY	(V) 1" = 5'	JOB NO.	2053.50	

N:\205350\DRAWINGS\CONSTRUCTION\Construction Plans\STREET AND STORM_CDS\205350-STMA-SHEET 14.dwg, 10/19/2018 11:34:45 AM, 1:1



AS-BUILT ENGINEERING RECORD DRAWINGS



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MARC A. WHORTON, COLORADO P.E. #37155
DATE: 10/19/18



PAINT BRUSH HILLS FILING 13A CONSTRUCTION PLANS
DETENTION FACILITY D
POND PLAN

DESIGNED BY	MAW	SCALE	DATE
7-12-18			

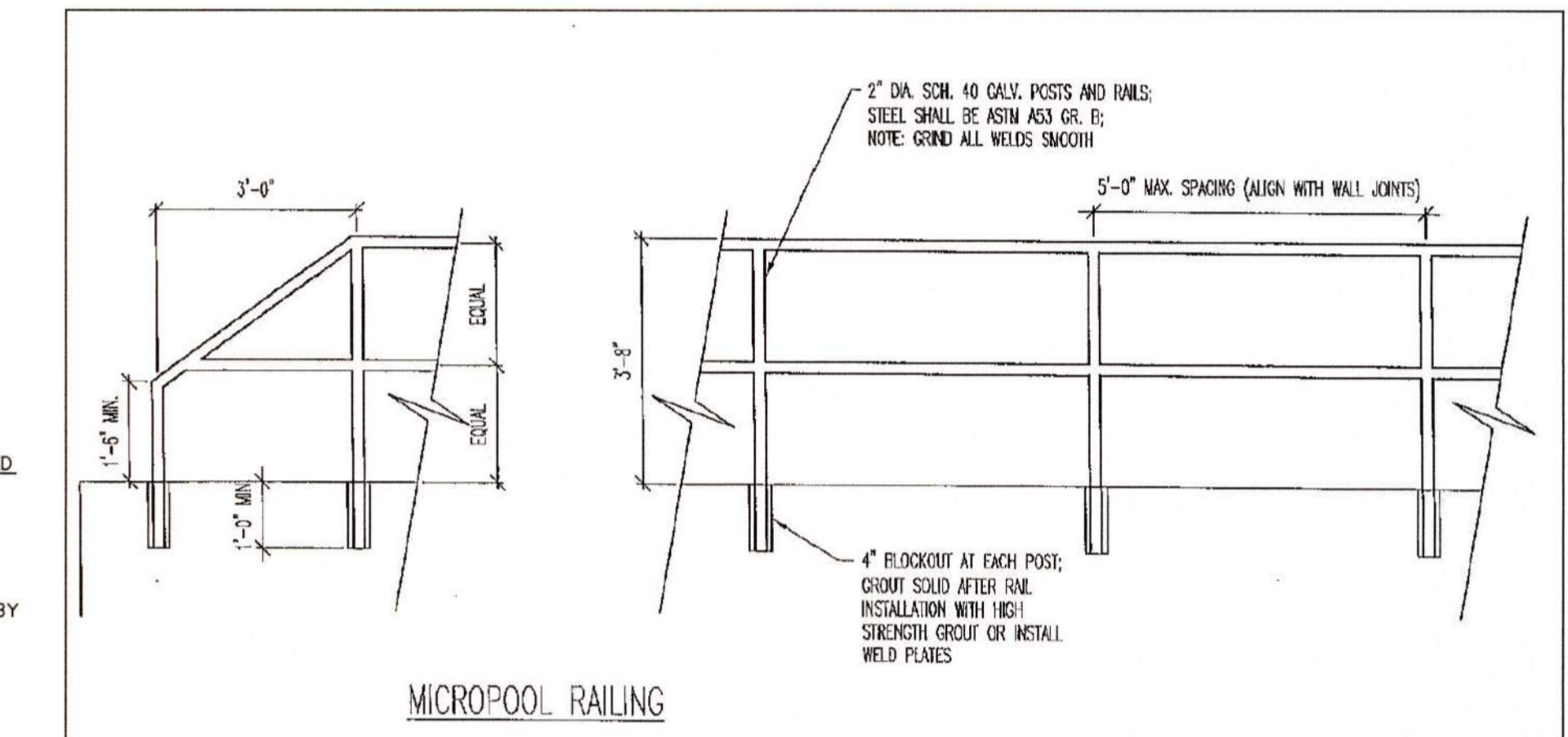
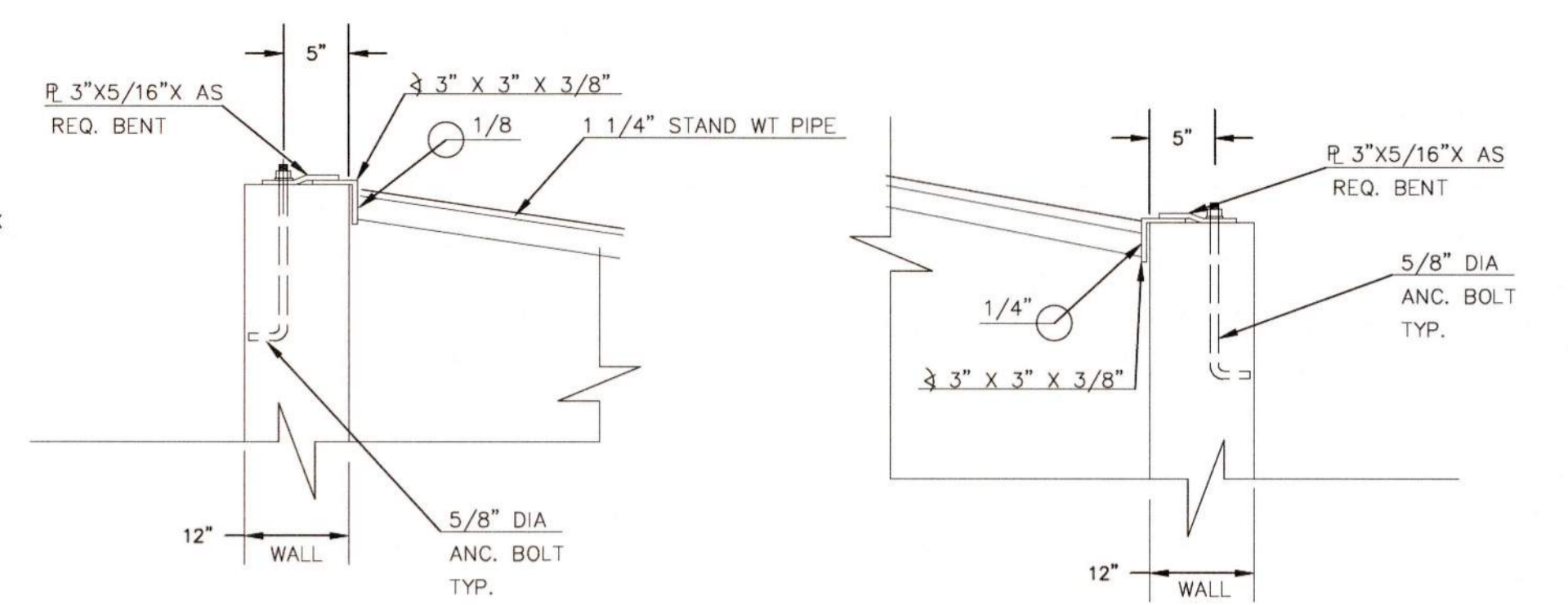
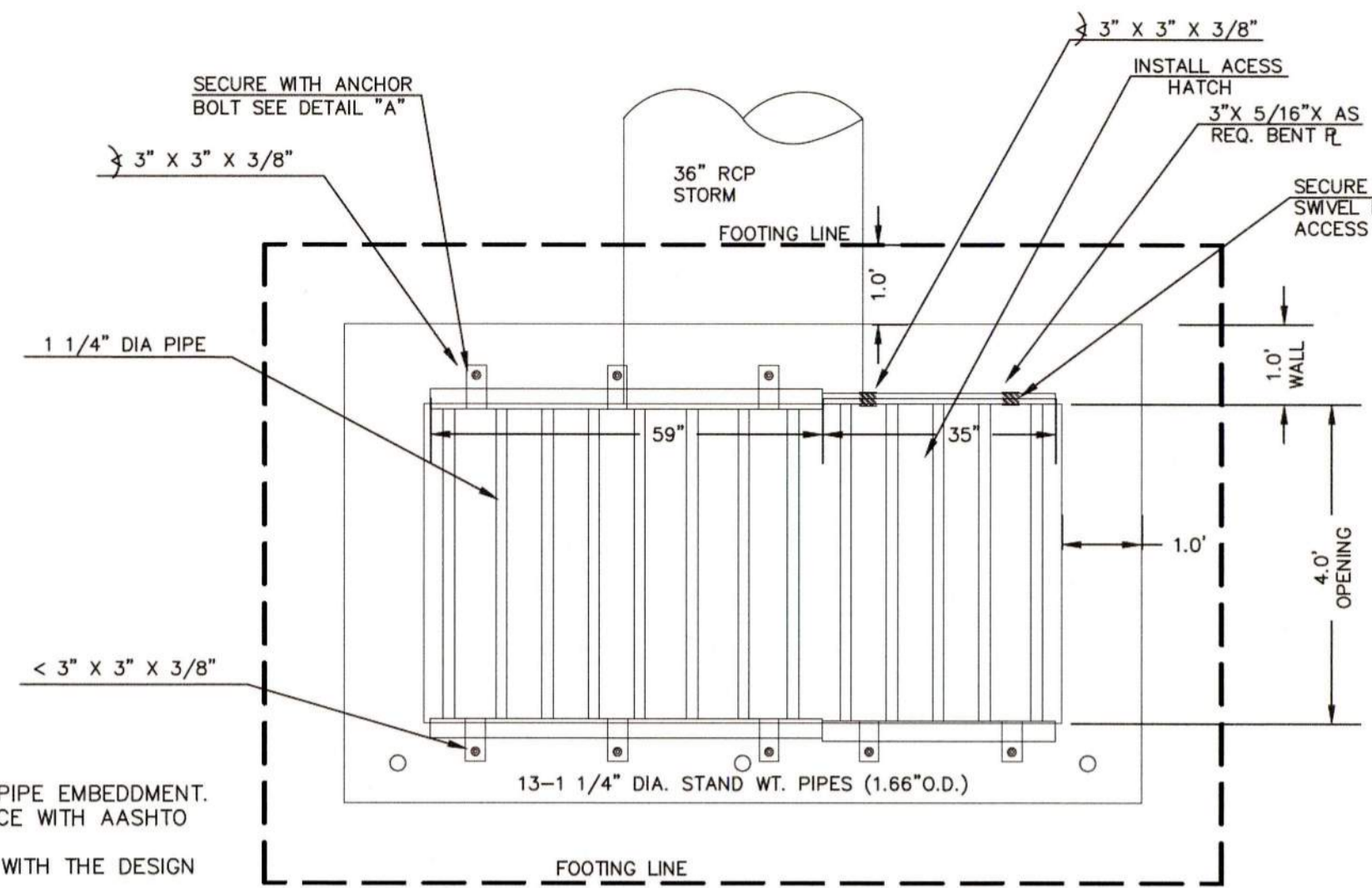
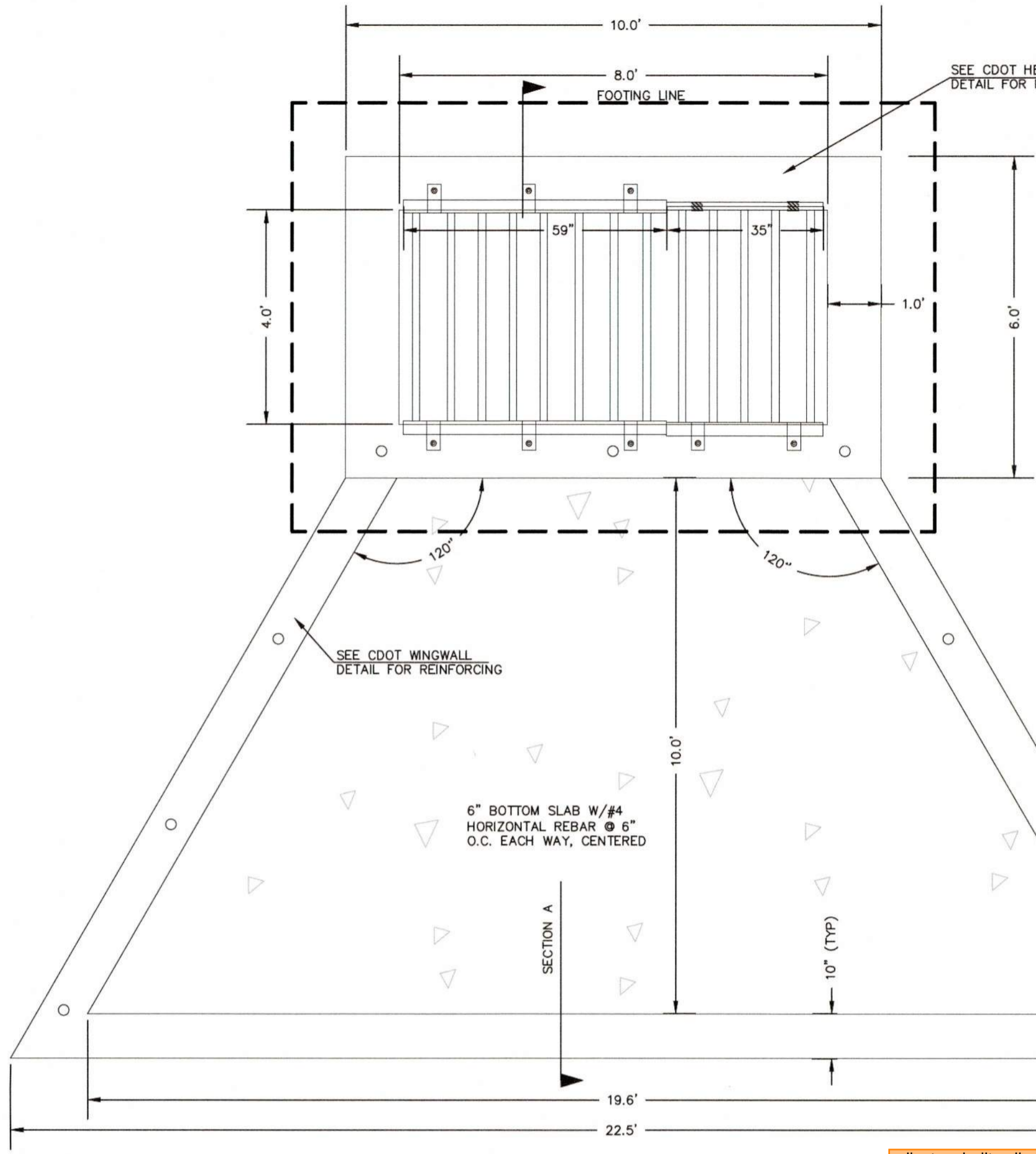
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CHECKED BY	(V) 1" = N/A	JOB NO.	2053.50

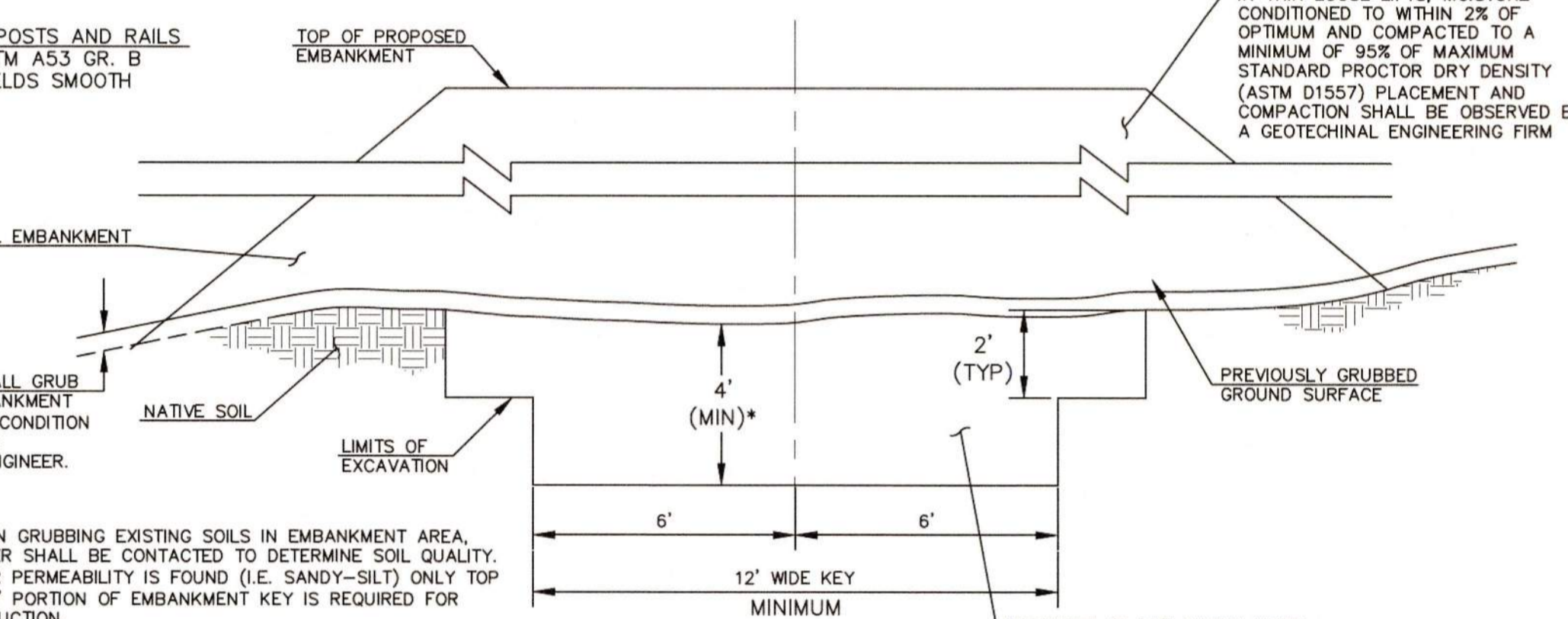
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AS-BUILT ENGINEERING RECORD DRAWINGS

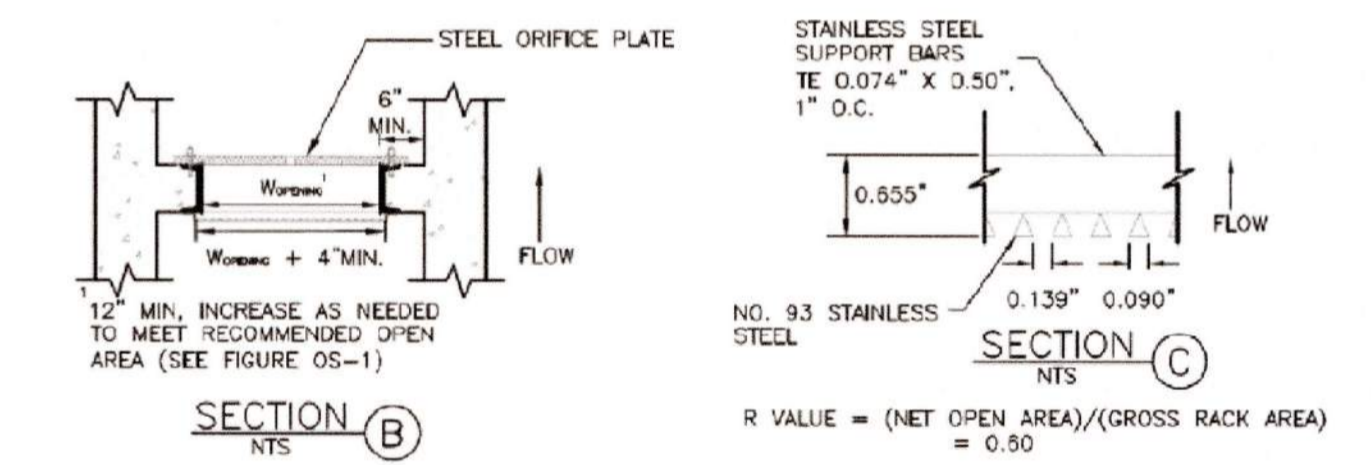
- NOTES:
- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
 - HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
 - RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
 - ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.



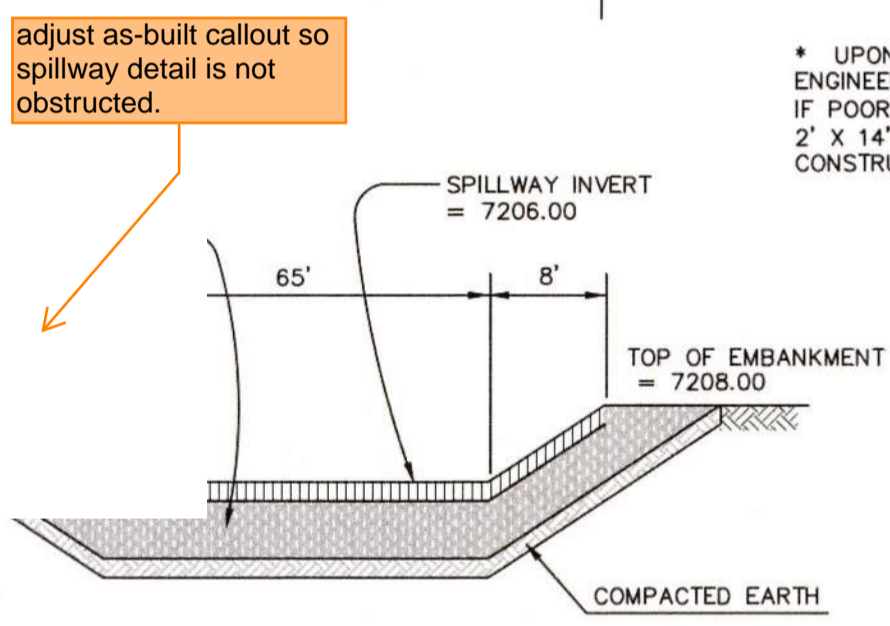
- 2\"/>



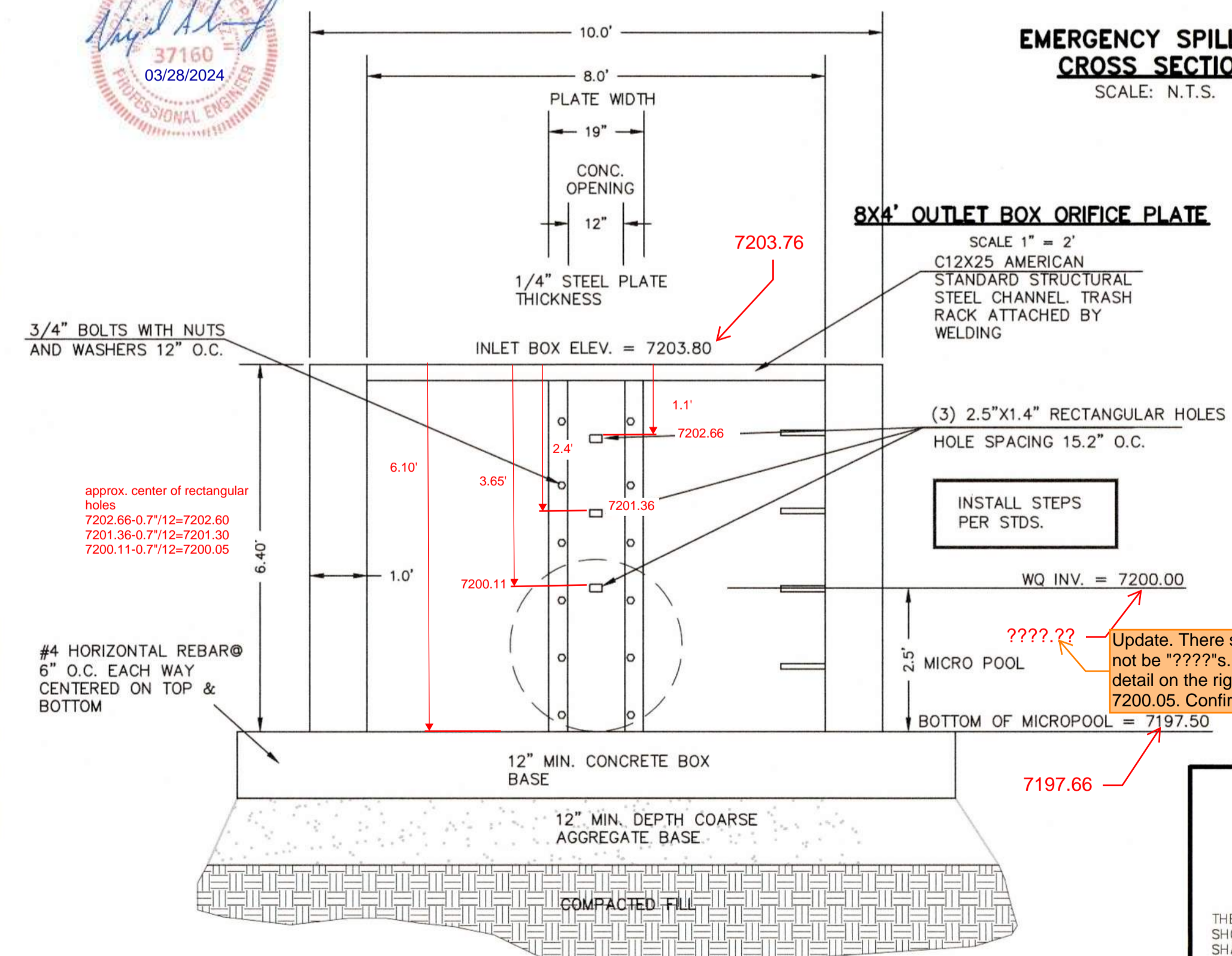
**SECTION A
TYPICAL EMBANKMENT
WITH SOIL KEYWAY**
SCALE: N.T.S.



SECTION B
N.T.S.

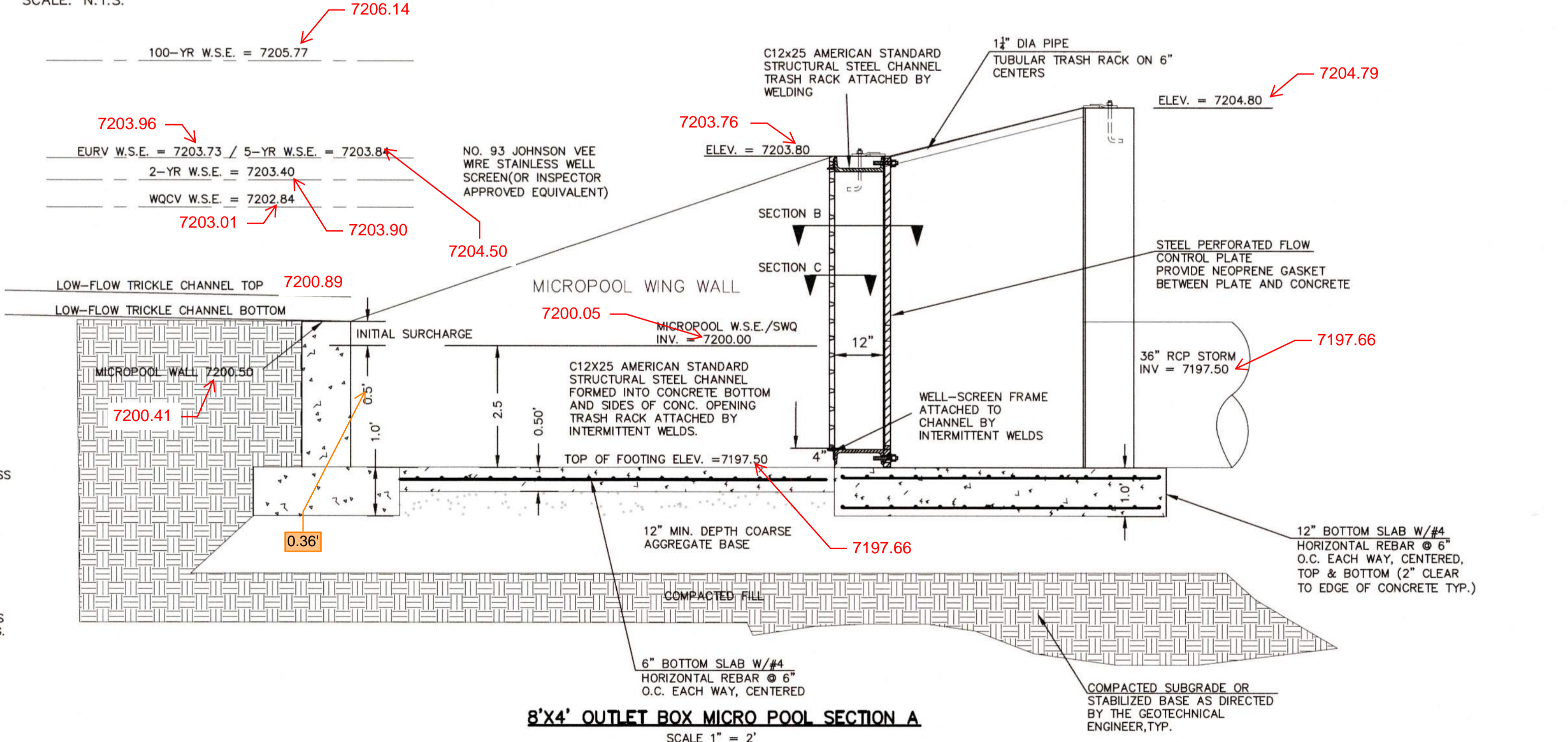


**EMERGENCY SPILLWAY
CROSS SECTION**
SCALE: N.T.S.



8'x4' OUTLET BOX ORIFICE PLATE
SCALE: 1\"/>

- (ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)
- ORIFICE PLATE NOTES:
- INSTALL HOLES AS SHOWN ON DETAIL TO RIGHT.
 - PROVIDE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE
- EURV AND WQCV TRASH RACKS:
- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
 - BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
 - STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK
- OVERFLOW TRASH RACKS:
- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
 - TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 - TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
 - STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



8'x4' OUTLET BOX MICRO POOL SECTION A
SCALE: 1\"/>

48 HOURS BEFORE YOU DIG,
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UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-21-18
2	REVISED PER COUNTY COMMENTS	10-18-18

REVIEW:

PREPARED UNDER INDIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

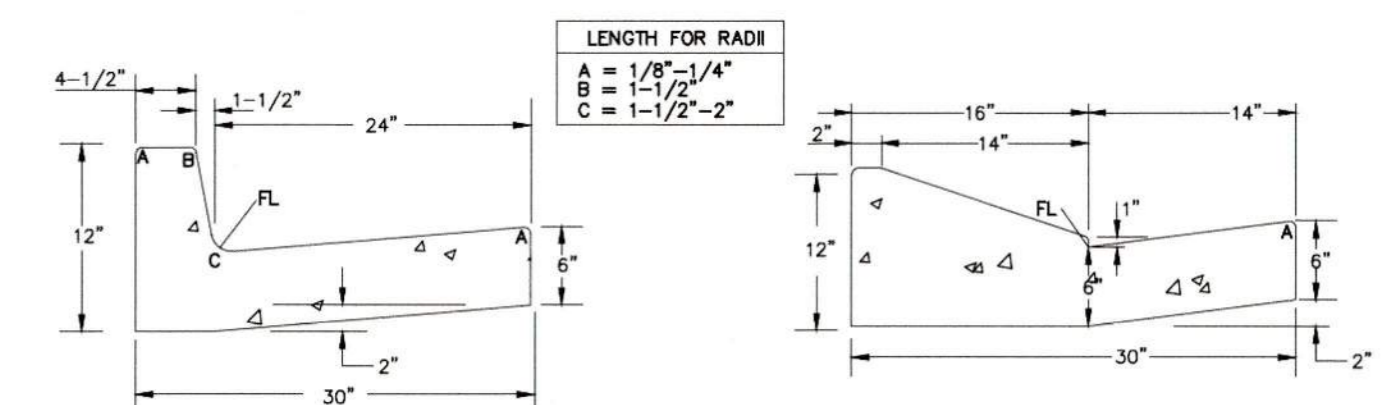
MARC A. WORTON, COLORADO P.E. #37155

DATE: 10/19/18

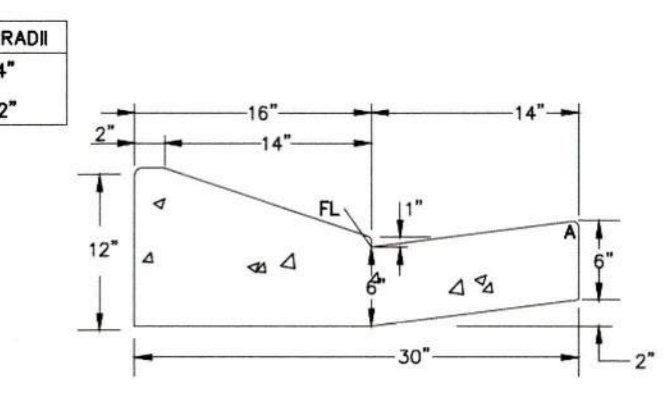


PAINT BRUSH HILLS FILING 13A
CONSTRUCTION PLANS
DETENTION FACILITY D
OUTLET BOX DETAILS

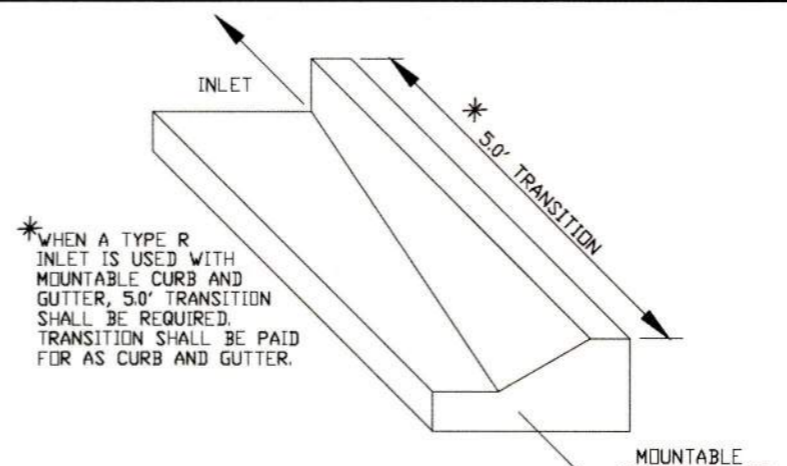
DESIGNED BY: MAW SCALE: N/A DATE: 7-12-18
DRAWN BY: MAW (H) 1"= N/A SHEET 16 OF 47-18
CHECKED BY: (V) 1"= N/A JOB NO. 2053.50



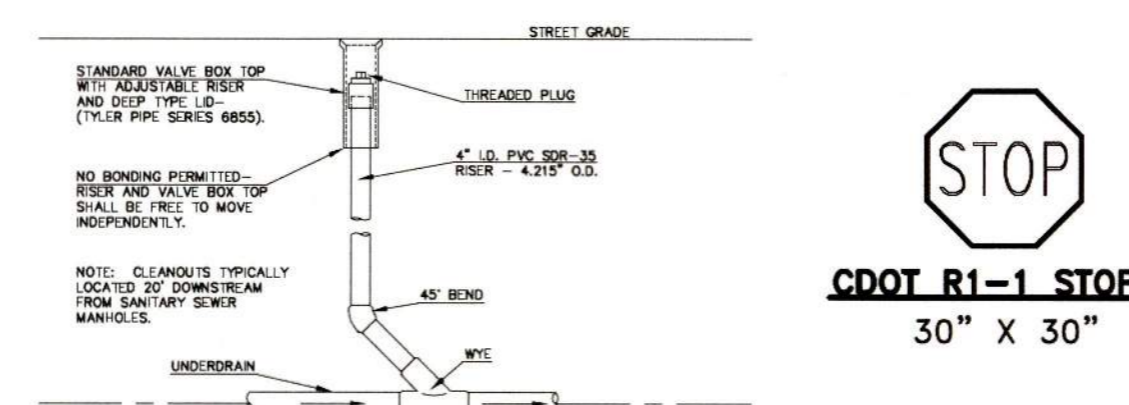
EPC TYPE A CURB & GUTTER DETAIL



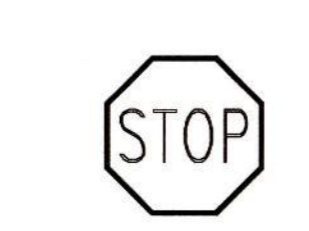
EPC OPTIONAL TYPE C CURB & GUTTER DETAIL



TRANSITION CURB DETAIL



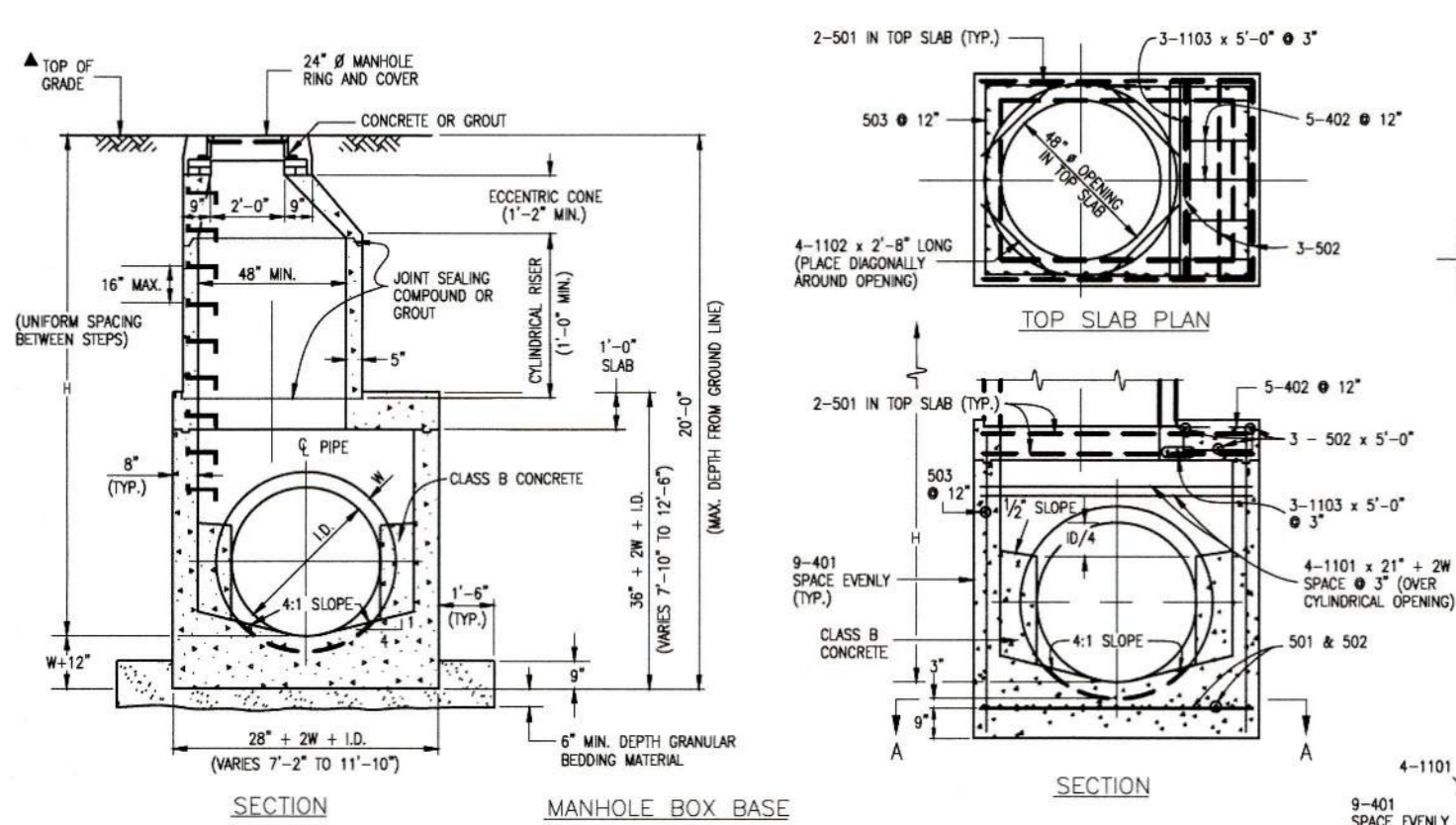
TYPICAL UNDERDRAIN CLEANOUT



CDOT R1-1 STOP SIGN
30" X 30"

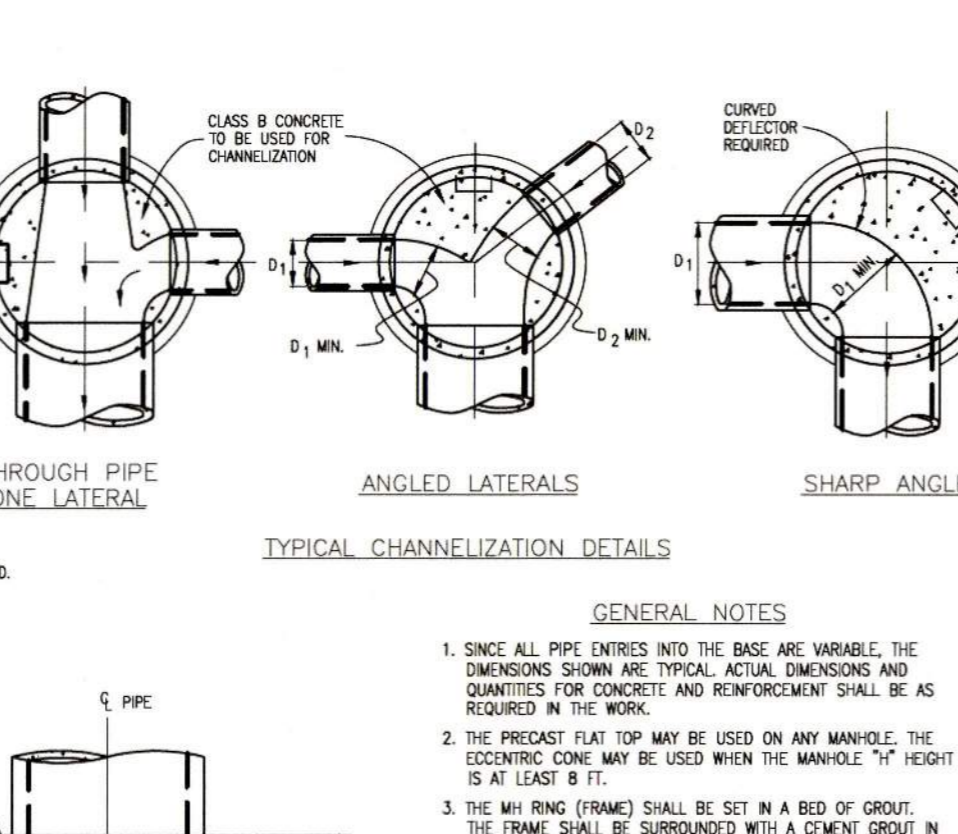


CDOT R2-1 SPEED LIMIT SIGN
(MINOR RES. STREETS)
24" X 30"

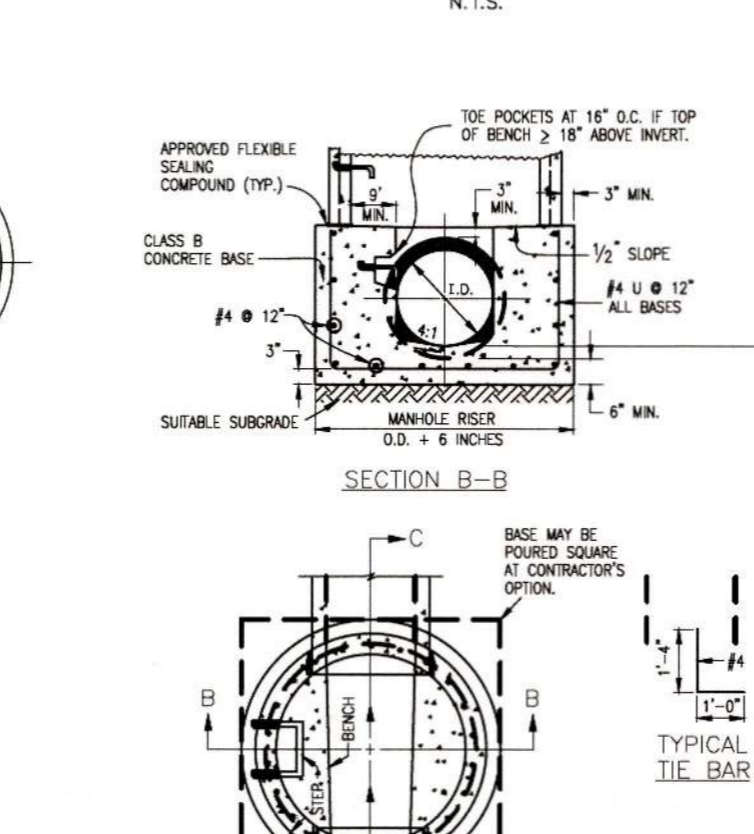


QUANTITIES FOR CONCRETE MANHOLE BOX BASE

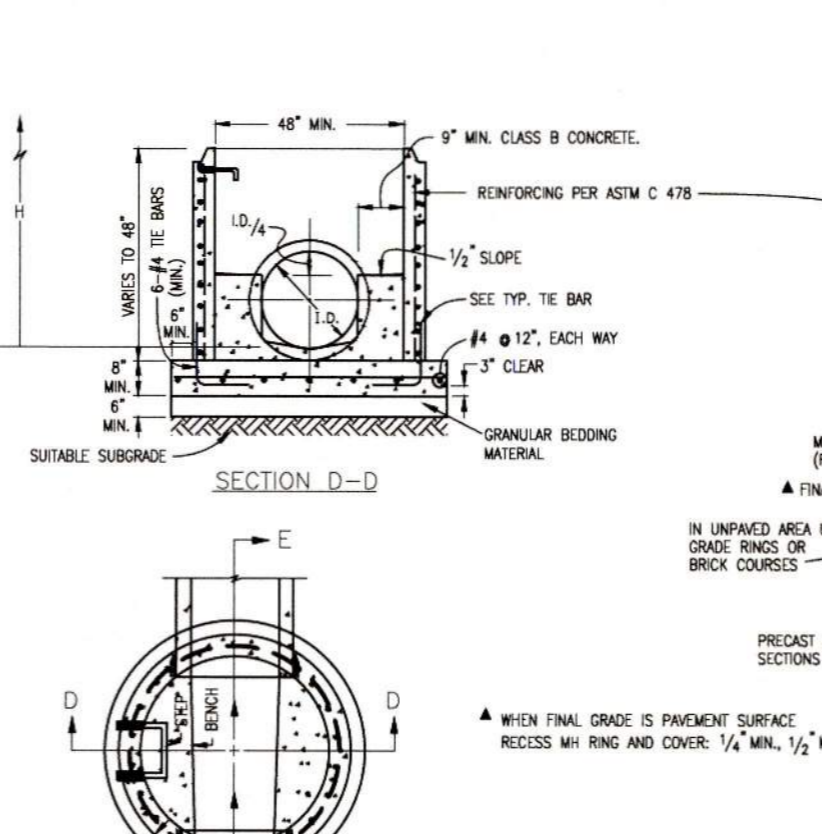
MARK	SIZE	TYPE	WT. #/FT.	NO. REQ'D	LENGTH	FORMULAS
401	4	I	0.668	18	18'-0"	401 BAR LENGTH = 32'+2W+I.D.
402	4	II	0.668	5	9'-0"	402 BAR LENGTH = I.D. + 2W
501	5	I	1.043	17	17'-0"	501 BAR LENGTH = 24' + I.D. + 2W
502	5	I	1.043	22	22'-0"	502 NUMBER BARS REQ'D. = 3 * (24+I.D.+2W+1)
503	5	II	1.043	16	16'-0"	503 BAR LENGTH = 2 * (13+I.D.+2W+1)
504	5	I	1.043	12	12'-0"	504 BAR LENGTH = 4 * (2W+I.D.+4)
1101	11	I	5.313	4	4'-0"	1101 BAR LENGTH = 21' + I.D. + 2W
1102	11	I	5.313	2	2'-8"	TYPE I STRAIGHT
1103	11	I	5.313	2	2'-8"	TYPE II



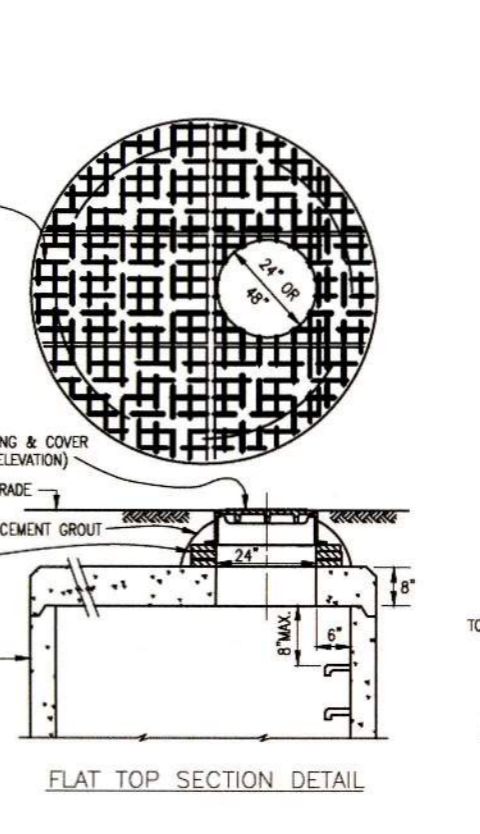
TYPICAL CHANNELIZATION DETAILS



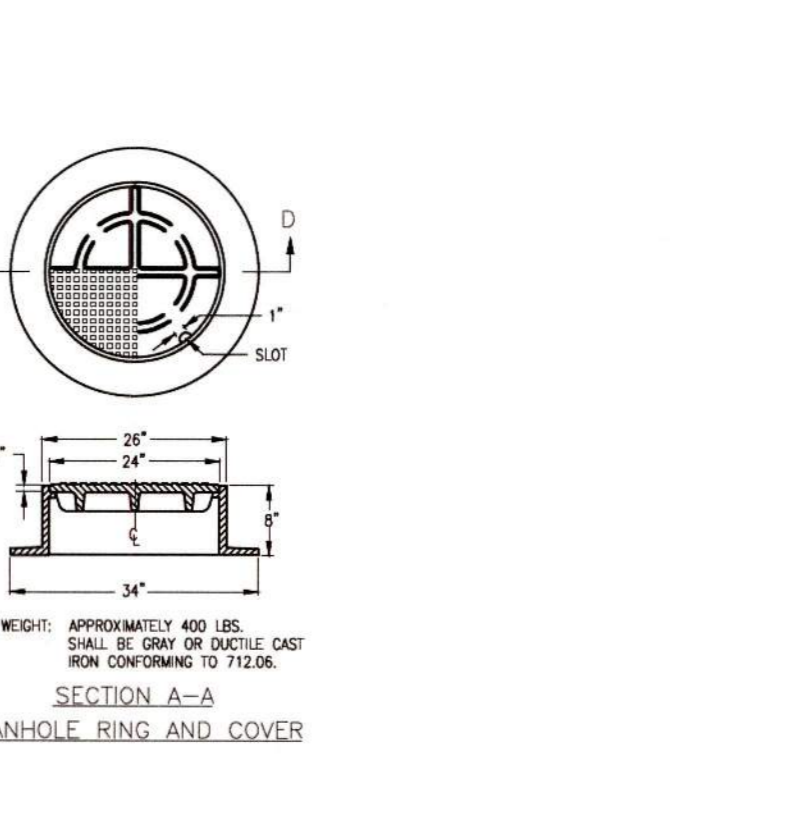
SECTION B-B



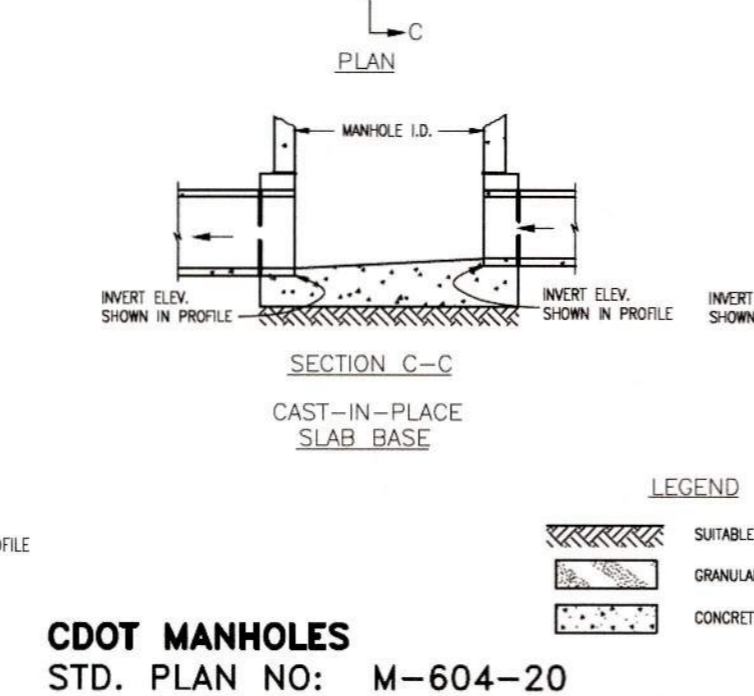
SECTION D-D



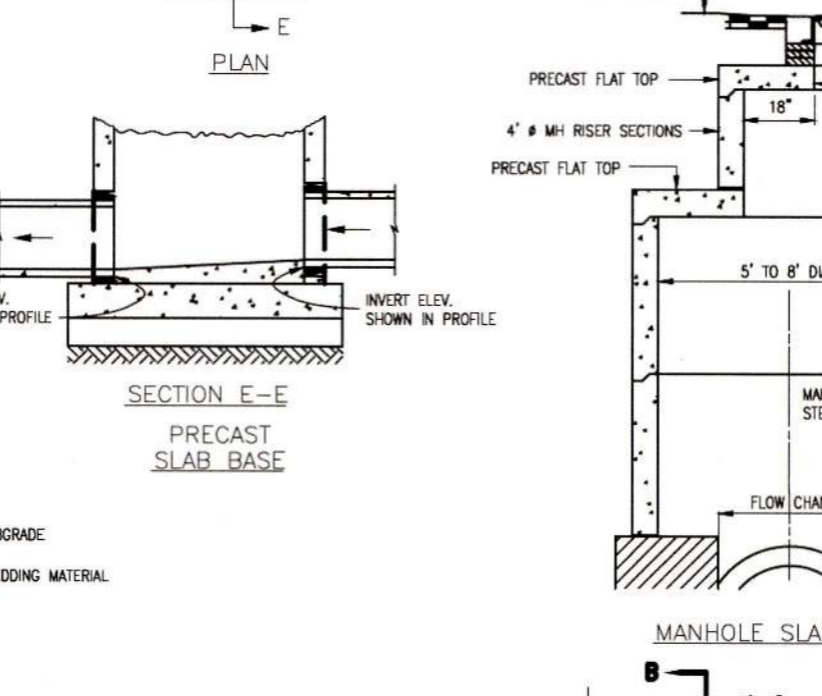
FLAT TOP SECTION DETAIL



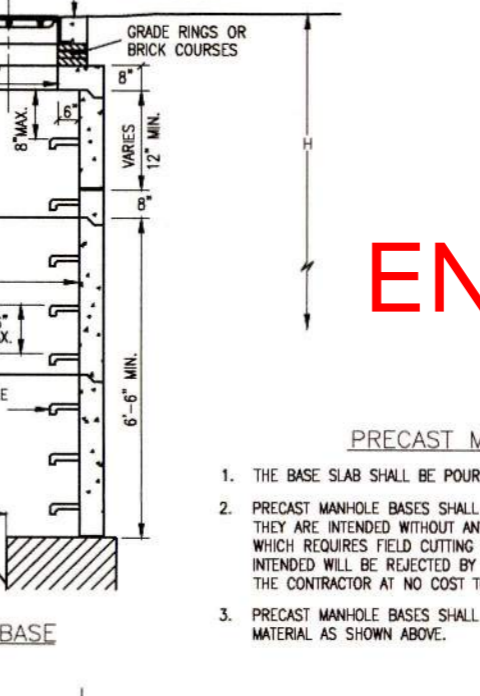
MANHOLE RING AND COVER



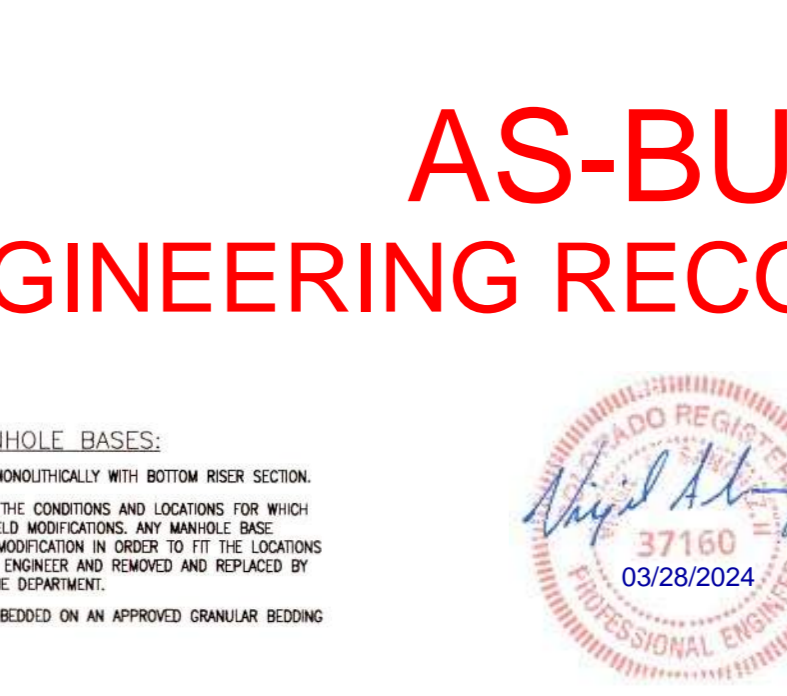
SECTION C-C



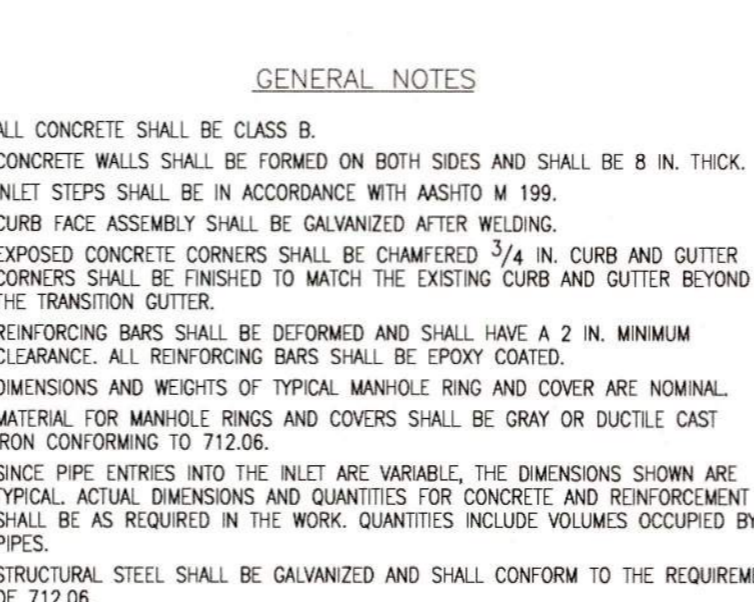
SECTION E-E



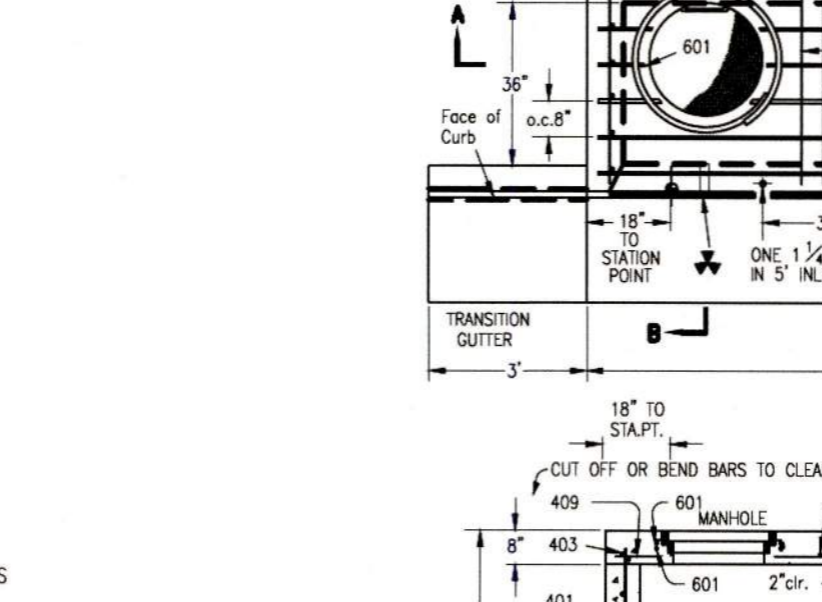
MANHOLE SLAB BASE



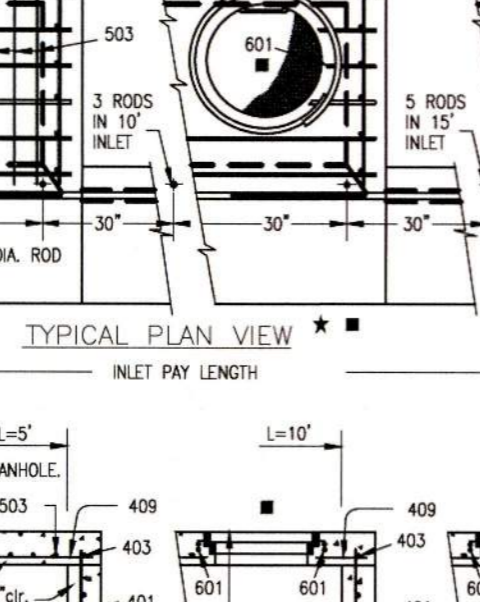
SECTION A-A



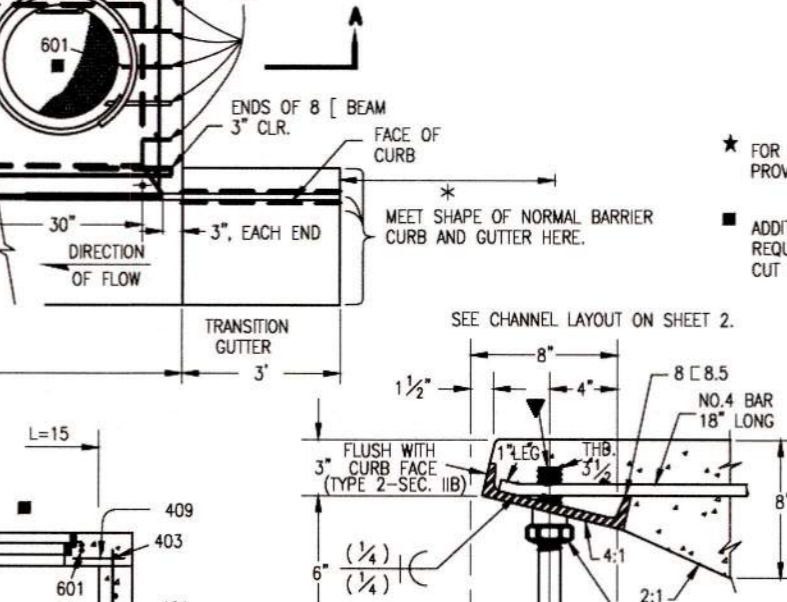
CDOT MANHOLES STD. PLAN NO: M-604-20



SECTION A-A



SECTION C-C



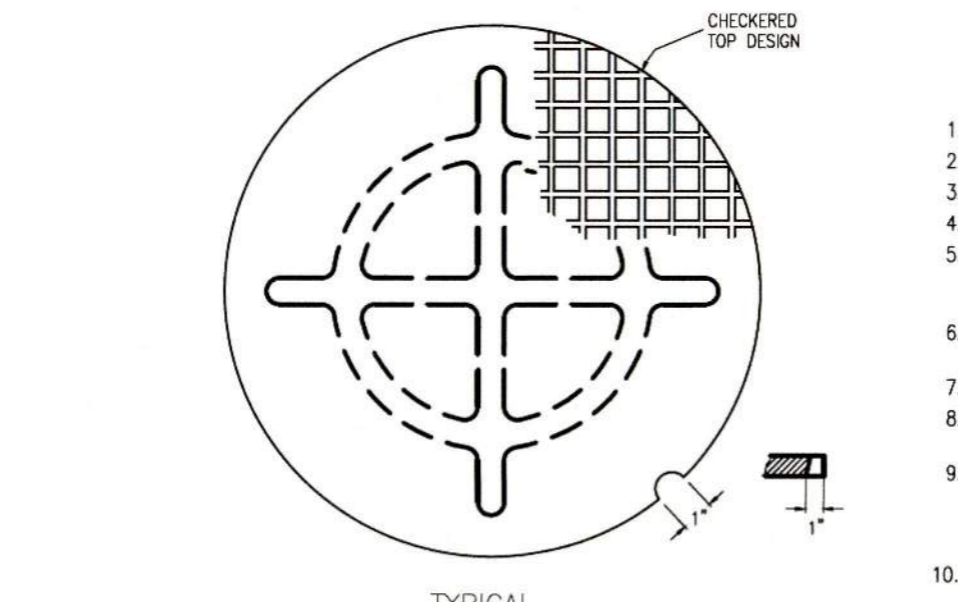
SECTION D-D

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

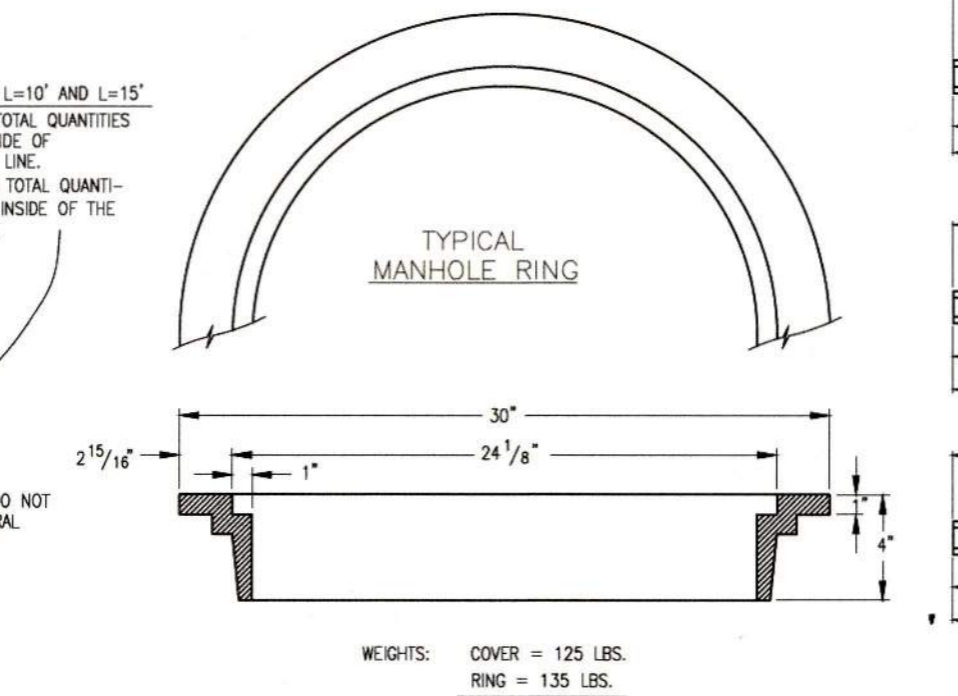
MARK	DIA. IN.	O.C. SPACING	TYPE	ALL INLETS, L ≤ 5'			INLETS, 5' < L ≤ 15'			
				NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	
401	11"	II	15	15'	21	21'	26	26'	11	11'
402	11"	II	7	7'	13	13'	18	18'	7	7'
403	9"	II	4	4'	7	7'	10	10'	4	4'
404	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"
406	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"
407	9"	II	5	5'-10"	10	5'-10"	15	5'-10"	5	5'-10"
408	12"	II	3	6'-10"	3	11'-0"	3	16'-0"	3	6'-10"
409	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	5'-10"
410	11"	VII	3	3'	3	3'	3	3'	3	3'
411	11"	II	3	5'-2"	3	10'-2"	3	15'-2"	3	5'-2"
412	11"	II	3	2'-9"	3	2'-9"	3	2'-9"	3	2'-9"
413	9"	II	7	10'-10"	7	15'-10"	7	20'-10"	7	10'-10"

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

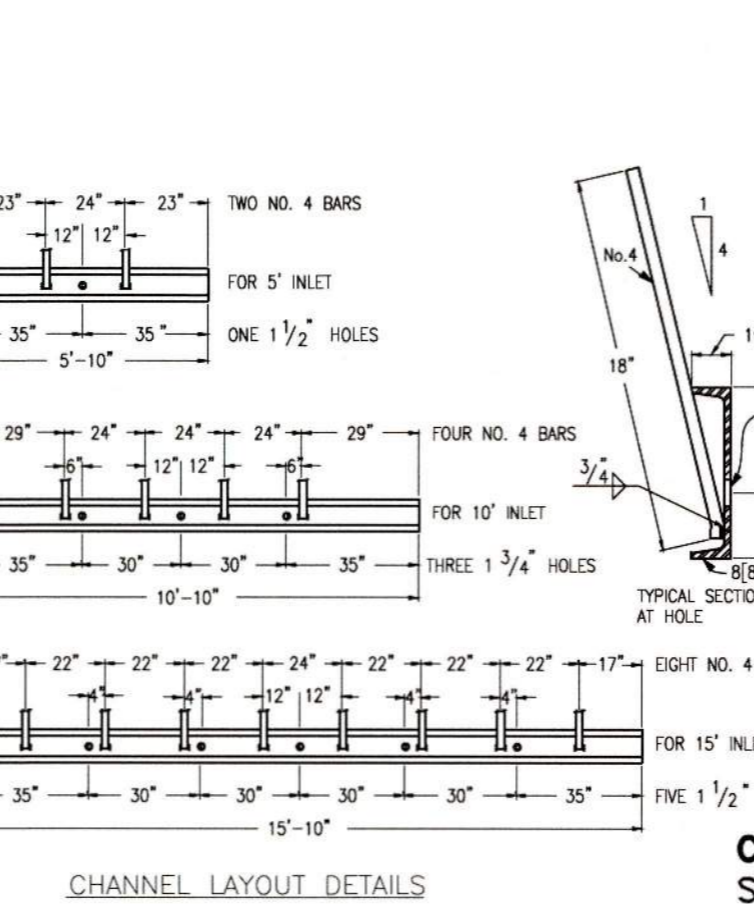
H'	REGULAR		DROPPED		L=5'		L=10'		L=15'	
	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
3'-0"	401	402	410	407	403	407	3.2	285	5.3	497
3'-6"	3'-0"	11	7	7	3.4	305	5.7	528	7.9	747
4'-0"	3'-6"	12	9	9	3.7	326	6.0	569	8.4	786
4'-6"	4'-0"	12	9	9	3.9	334	6.4	571	8.8	803
5'-0"	4'-6"	14	11	11	4.1	354	6.7	602	9.3	844
5'-6"	5'-0"	16	13	13	4.4	375	7.0	607	7.4	850
6'-0"	5'-6"	18	15	15	4.6	382	7.2	616	7.6	860
6'-6"	6'-0"	18	15	15	4.8	402	7.4	637	7.8	880
7'-0"	6'-6"	20	17	17	5.0	423	7.6	654	8.0	897
7'-6"	7'-0"	20	17	17	5.3	430	7.8	664	8.3	907
8'-0"	7'-6"	22	19	19	5.5	451	8.0	684	8.5	927
8'-6"	8'-0"	24	21	21	5.7	471	8.2	702	8.7	944
9'-0"	8'-6"	24	21	21	6.0	479	8.4	711	9.0	954
9'-6"	9'-0"	26	23	23	6.2	499	8.6	732	9.2	974
10'-0"	9'-6"	28	25	25	6.4	520	8.8	749	9.4	992
10'-6"	10'-0"	28	25	25	6.7	527	9.0	759	9.7	1001
11'-0"	10'-6"	30	27	27	6.9	547	9.2	779	9.9	1022



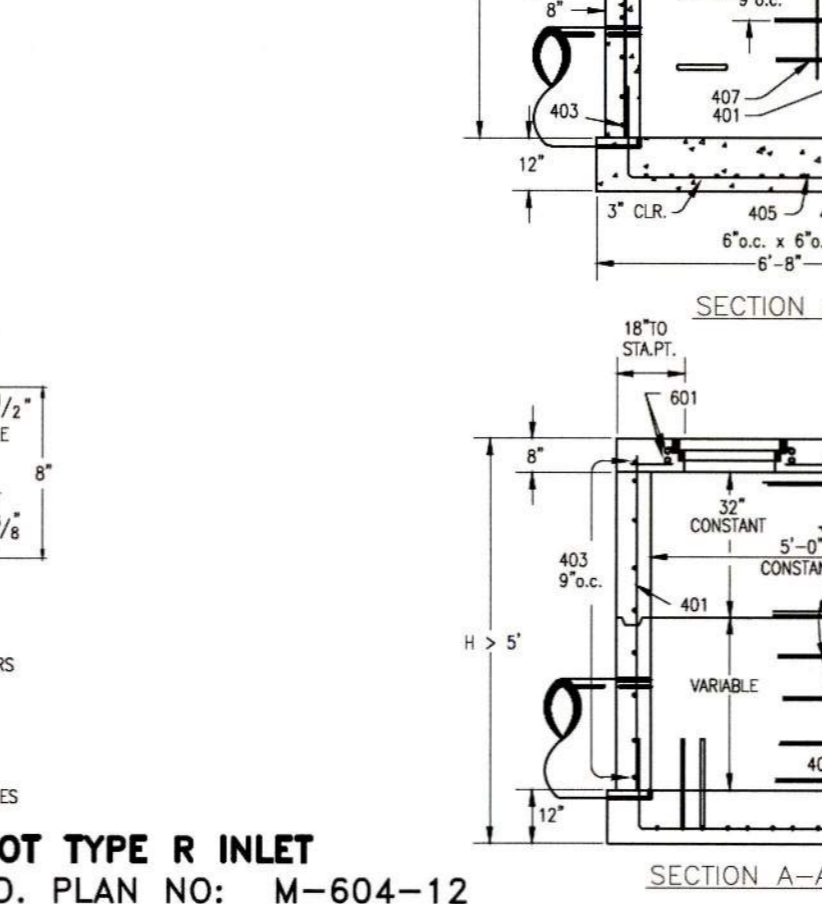
TYPICAL MANHOLE COVER



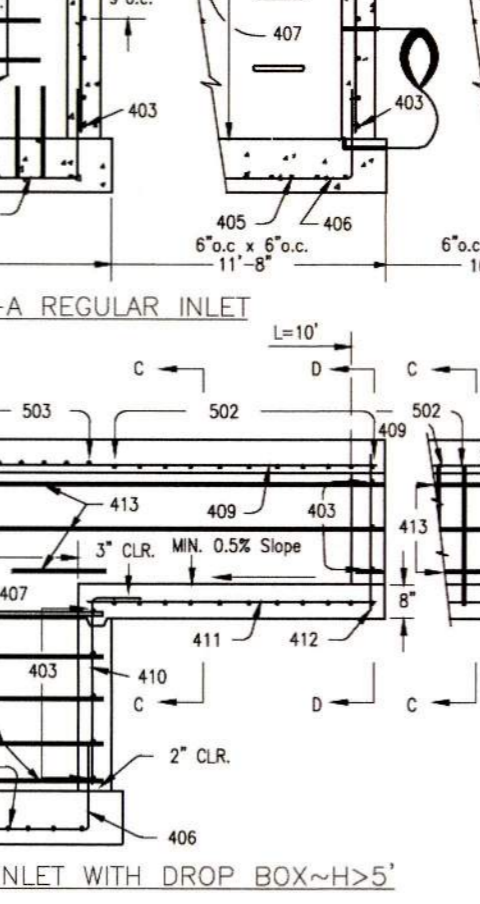
TYPICAL MANHOLE RING



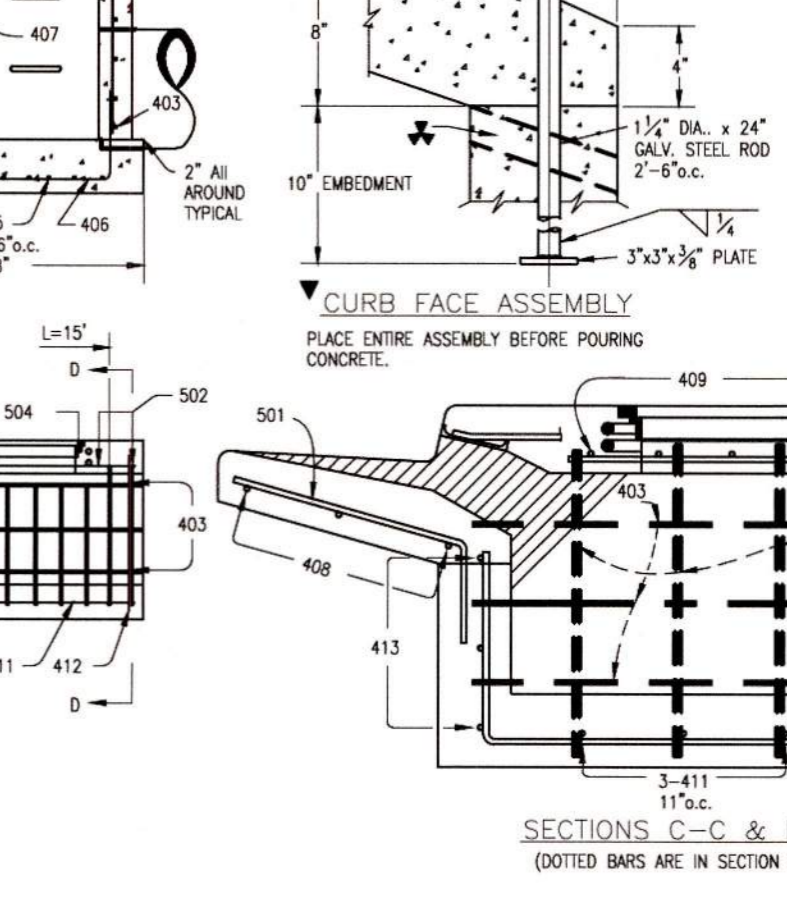
CHANNEL LAYOUT DETAILS



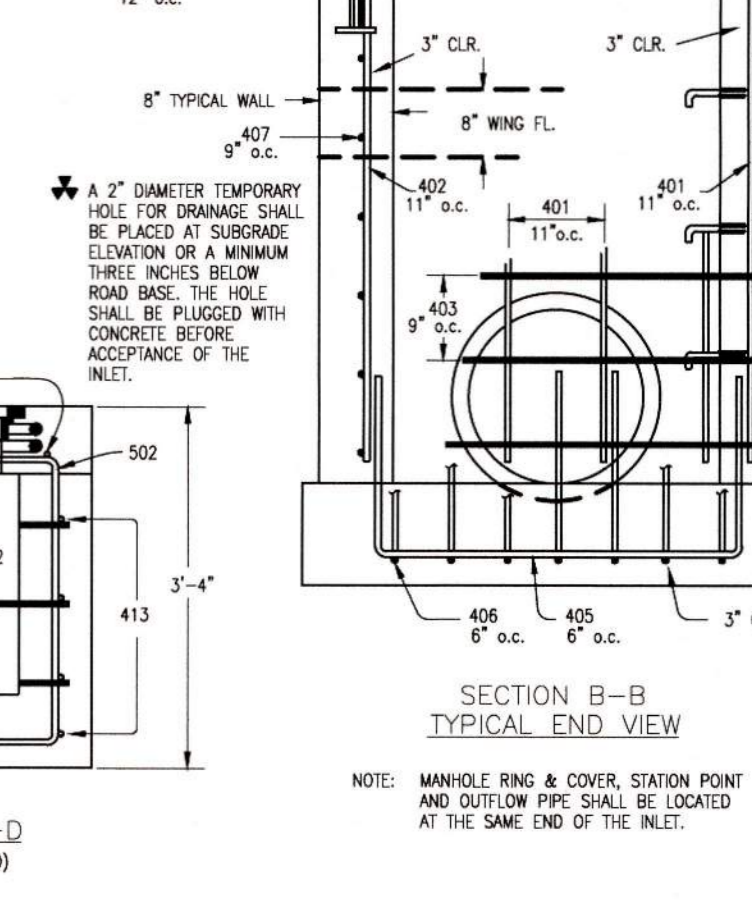
SECTION A-A REGULAR INLET



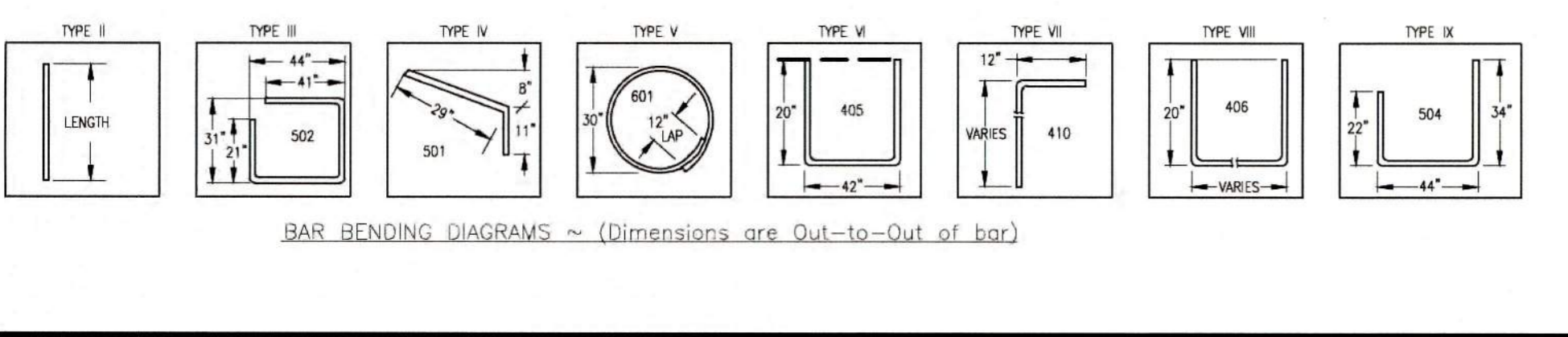
SECTION A-A INLET WITH DROP BOX-H>5'



CURB FACE ASSEMBLY



SECTION B-B



BAR BENDING DIAGRAMS ~ (Dimensions are Out-to-Out of bar)

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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NO. REVISION

NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	9-26-18

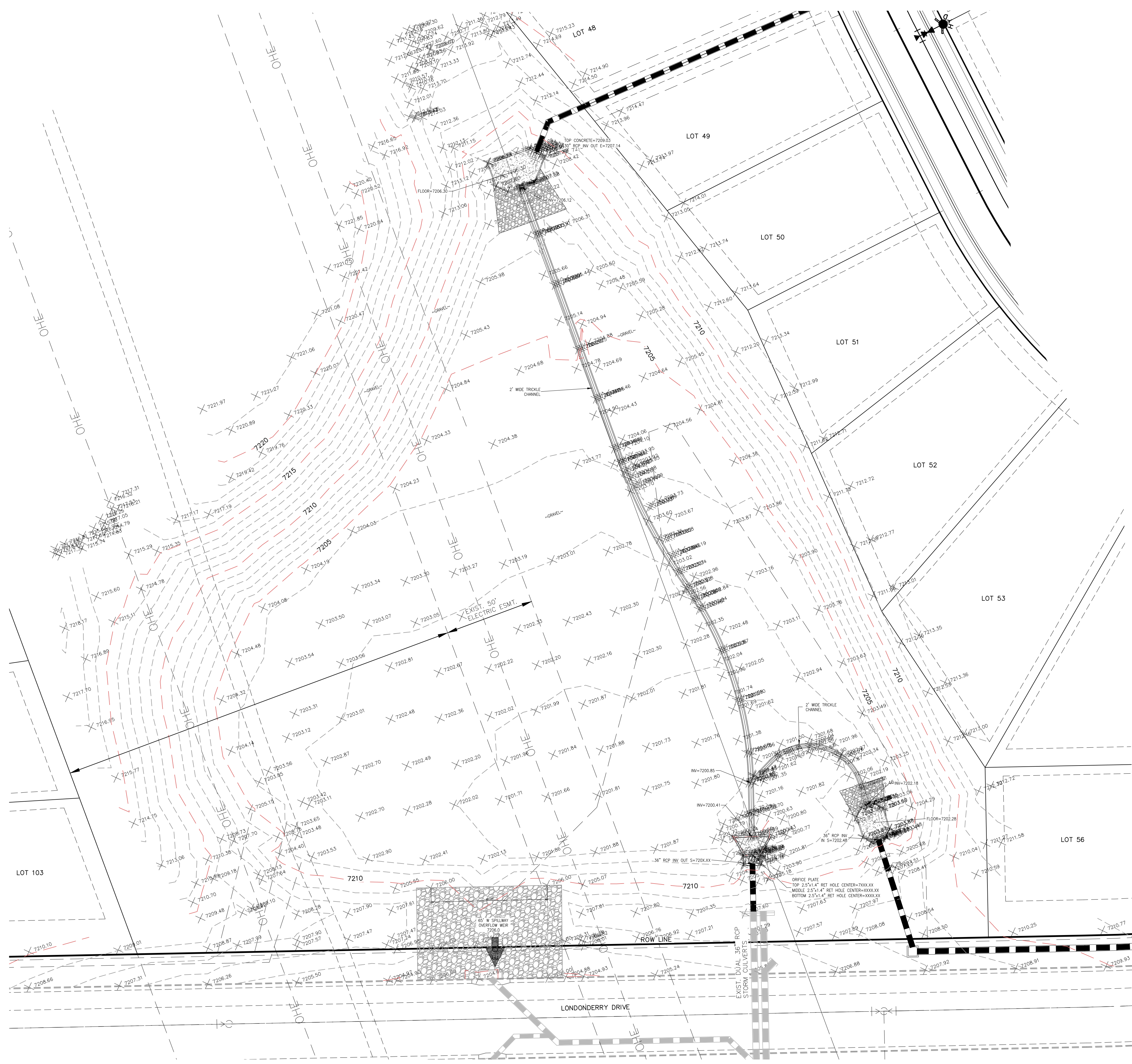
REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

MARC A. WORTON, COLORADO P.E. #37155



PAINT BRUSH HILLS FILING NO. 13E
CONSTRUCTION PLANS
DETAIL SHEET

DESIGNED BY: MAW SCALE: DATE: 7-20-18
DRAWN BY: MAW (H) 1" = NA SHEET 17 OF 17-18
CHECKED BY: (V) 1" = NA JOB NO. 2053.50



LEGEND

- EXIST MAJ CONT
- EXIST MIN CONT
- UNDERGROUND STORM SEWER LINE(S)
- EMERGENCY OVERTFLOW/SPILLWAY
- RIPRAP

POND CERTIFICATION

FOREBAY INLETS
 DESIGNED INVERT 30" IN (NE) = 7207.25', SURVEY INVERT 30" IN (NE) = 7207.14'
 DESIGNED INVERT 36" IN (S) = 7202.80', SURVEY INVERT 36" IN (S) = 7202.48'

OUTLET STRUCTURE
 DESIGNED LF CHANNEL INVERT IN = 7200.50', SURVEY INVERT IN = 7200.41'
 DESIGNED 36" INVERT OUT (S) = 7197.50', SURVEY 36" INVERT OUT (S) = 7197.66'
 DESIGNED TOP CONC. BOX/GRATE (FRONT) = 7203.80', SURVEY TOP CONC. GRATE = 7203.76'
 DESIGNED TOP CONC. BOX/GRATE (BACK) = 7204.80', SURVEY TOP CONC. GRATE = 7204.79'

SPILLWAY (EDB)
 DESIGNED SPILLWAY ELEVATION = 7206.00', SURVEY SPILLWAY ELEVATION = 7206.00'

VOLUME
 DESIGNED VOLUME = 5.941 ACRE FEET @ 7205.77' (100 YR SURFACE)
 PROVIDED VOLUME = 6.211 ACRE FEET @ 7206.09' (100 YR SURFACE)

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

PAINT BRUSH HILLS FILING 13A	
PERMANENT BMP PLAN	
PROJECT NO. 43-124	DATE: 03/28/2024
DESIGNED BY: DLM	HORIZONTAL SCALE: 1"=20'
DRAWN BY: DLM	VERTICAL SCALE: N/A
CHECKED BY: DLM	BMPAB
212 N. WAHATCH AVE, STE 305 COLORADO SPRINGS, CO 80903 PHONE 719.555.5885	
FOR AND ON BEHALF OF MRS. CIVIL CONSULTANTS, INC.	
VIRGIL A. SANCHEZ, COLORADO, P.E. NO. 371160	
REVISIONS: NO. DATE BY DESCRIPTION	APPROV. BY: _____ DATE: _____
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.	
CAUTION	