- GENERAL NOTES: ALL NEW CONSTRUCTION TO CONFORM TO THE SPECIFICATIONS OF EL PASO COUNTY DEVELOPMENT SERVICES DEPT AND CHEROKEE METROPOLITAN DISTRICT. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT CHEROKEE METROPOLITAN DISTRICT SPECIFICATIONS AND/OR EL PASO COUNTY SPECIFICATIONS, WHICHEVER IS GREATER. 2.1. FOR UTILITY NOTES, SEE UTILITY PLAN AND/OR SERVICE PLAN. 3. PROFILE DESIGN LINES ARE BASED ON CENTERLINE, AS SHOWN, UNLESS OTHERWISE NOTED. 3.1. ALL HORIZONTAL STATIONING IS BASED ON THE 'BACK OF CURB', UNLESS OTHERWISE SHOWN. 3.2. ALL VERTICAL DESIGN AND TOP OF CURB ARE BASED ON THE DESIGN POINT SHOWN IN THE TYPICAL CROSS SECTION 4. ANY ASPHALT REMOVED IS TO BE REPLACED TO MEET THE SPECIFICATIONS OF THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT. FOR PAVEMENT DESIGN, CURB AND GUTTER, AND SIDEWALKS SEE INDIVIDUAL PLAN AND PROFILE SHEETS. PAVEMENT DESIGN TO BE BASED ON RESISTANCE VALUE 'R' DERIVED FROM HVEEM TESTS AND ARE TO BE APPROVED BY THE ENGINEERING DIVISION OF THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT PRIOR TO WORK ABOVE SUBGRADE. AT INTERSECTIONS, ALL CURB RETURNS WILL HAVE 20-FOOT RADIUS UNLESS OTHERWISE NOTED. EXISTING UTILITIES: THE LOCATIONS OF EXISTING UTILITIES ARE BASED UPON THE BEST AVAILABLE INFORMATION, ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION AND VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK. IF IT APPEARS THERE COULD BE A CONFLICT WITH ANY UTILITIES, WHETHER INDICATED ON THE PLANS OR NOT, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AND OWNER IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA AND SITE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THE EXISTING UTILITIES. WITH NOTIFICATION OF THE RESPECTIVE OWNER, ADJUST RIMS OF ALL CLEANOUTS, MANHOLES AND VALVE COVERS WITHIN PAVEMENT TO 1/4 TO 1/2 INCH BELOW THE FINISHED GRADE AND CROSS SLOPE PRIOR TO FINAL LIFT PAVING AND ADJUST TO MATCH FINISH GRADE IN UNPAVED AREAS. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT AND CHEROKEE METROPOLITAN DISTRICT PRIOR TO ANY CONSTRUCTION. 10. APPROVED PLANS, ENGINEERING CRITERIA MANUAL, ETC. IS REQUIRED TO BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. 11. ALL NECESSARY PERMITS, SUCH AS SWMP, ESQCP, FUGITIVE DUST, ACCESS, C.O.E. 404, ETC. SHALL BE OBTAINED PRIOR TO CONSTRUCTION. 12. ALL HANDICAP RAMPS TO BE PER EL PASO COUNTY STANDARD SD_2-40. 12.1. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND LAYOUT WITH THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT ON THE PLACEMENT OF ANY PEDESTRIAN RAMPS PRIOR TO CONSTRUCTION OF THE CURB. PEDESTRIAN RAMP LOCATIONS ARE AS SHOWN ON THE PLANS. 13. WHERE APPROPRIATE, NEATLY SAW CUT ALL EXISTING CONCRETE AND ASPHALT. REPAIR/REPLACE ALL DISTURBED EXISTING ITEMS WITH LIKE MATERIALS AND THICKNESSES. 14. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH NATIVE GRASSES WITHIN 21 DAYS OF EXCAVATION PER EROSION CONTROL PLAN. 15. THE PREPARED EROSION/SEDIMENT CONTROL PLAN IS TO BE CONSIDERED A PART OF THESE PLANS AND ITS REQUIREMENTS ADHERED TO DURING THE
- CONSTRUCTION OF THIS PROJECT. 16. ALL STORM SEWER PIPE LENGTHS AND SLOPES ARE FIGURED FROM CENTER OF MANHOLE, BEND OR WYE AND INSIDE FACE OF INLET. PIPE LENGTHS ARE GIVEN AS A HORIZONTAL LENGTH AND ARE APPROXIMATE. 16.1. PIPE LENGTHS INCLUDE THE FLARED END SECTION.
- 17. ALL STORM SEWER PIPE BEDDING TO BE CLASS B BEDDING, UNLESS OTHERWISE NOTED.
- 18. ALL STORM SEWER PIPE SHALL BE CLASS III, WALL B UNLESS OTHERWISE SHOWN. 19. ALL WYES AND BENDS USED IN CONSTRUCTION OF STORM SEWER FACILITIES SHALL BE FACTORY FABRICATED, UNLESS APPROVED BY THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT.
- 20. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLY FLUSH. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C-443. AVERAGE JOINT GAP THAT EXCEEDS 1/2 INCH SHALL BE FILLED WITH NON-SHRINK GROUT. 1. MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER TO BE SET IN CENTERED
- CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEV. 22. CONSTRUCTION AND MATERIALS USED IN ALL STORM AND SANITARY SEWER MANHOLES SHALL BE PER SPECIFICATIONS. STORM SEWER RADIAL DEFLECTIONS TO
- BE GROUTED OR INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 23. STORM SEWER MANHOLES SIZES AS FOLLOWS UNLESS OTHERWISE SHOWN: 18" THRU 36" USE 48" I.D. MANHOLE
 - 42" THRU 48" USE 60" I.D. MANHOLE
 - 54" THRU 60" USE 72" I.D. MANHOLE NOTE: MANHOLE SIZES TABULATED HERE SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE INCOMING LATERALS.
- 20. VERTICAL CURB TO BE USED BETWEEN CURB RETURNS (CR) AND AT CURB INLETS. TRANSITIONS FROM RAMP TO VERTICAL CURB SHALL BE 10-FEET UNLESS OTHERWISE APPROVED BY THE EL PASO COUNTY DEVELOPMENT SERVICES DEPARTMENT. ALL OTHER CURB & GUTTER TO BE RAMP CURB & GUTTER, UNLESS OTHERWISE SHOWN ON THE PLAN.
- 1. CROSS PANS TO BE PER EL PASO COUNTY STANDARD DETAIL SD_2-26. 22. CURB RETURNS SHALL BE STRAIGHT GRADED FROM CR TO CR UNLESS OTHERWISE NOTED.
- 23. INLETS ARE TYPE 'R' INLETS (CDOT STD M-604-12) UNLESS OTHERWISE NOTED.
- 24. USPS CBU MAILBOXES ARE TO BE DETERMINED BY USPS. 25. ALL SANITARY SEWER PIPE BEDDING TO BE CLASS B BEDDING, UNLESS OTHERWISE NOTED. REFER TO CHEROKEE METROPOLITAN DISTRICT STANDARDS FOR BEDDING MATERIAL REQUIREMENTS.

BENCHMARK: FIMS MONUMENT NUMBER 81, A BERNTSEN TOP SECURITY ROD WITH A 3.25-INCH DIAMETER ALUMINUM FIMS CAP (NORTH SIDE OF U.S. HWY 24 EAST OF VALLEY STREET) ELEV.=6272.26 (NVGD 1929). BASIS OF BEARINGS: NORTH LINE OF THE SOUTH HALF OF SEC. 8, T14S, R65W OF THE 6TH P.M., MONUMENTED AT BOTH ENDS BY A 31/4" BRASS CAP IN RANGE BOX AND ASSUMED TO BEAR N89°43'13"E.

- EL PASO COUNTY STANDARD 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 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:
- a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM) b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
- c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- d. CDOT M & S STANDARDS 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 DEPARTMENT (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 DSD. 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 DSD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD DEPARTMENT PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT. 1. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.] 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS 15. 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.

MEADOWBROOK CROSSING CIVIL CONSTRUCTION DRAWINGS EL PASO COUNTY, COLORADO

Rename to Meadowbrook Crossing Filing No. 1

A	LEGEND
OMAHA BLVD. OMAHA BLVD. OMAHA BLVD. OMAHA BLVD. OG NOSHIJA A ST. C ST. OG NOSHIJA A ST. C ST. OG NOSHIJA BLVD. OMAHA BLVD. OG NOSHIJA BLVD. OG NOSHIJA DV NOSHIJA BLVD. OS NOSHI	CURB & GUTTER (CURB SECTION AS SHOWN ON PLANS) EXISTING OR PROPOSED PROPERTY LINE PROPOSED EASEMENT PROPOSED EASEMENT APPROXIMATE LIMIT OF DISTURBANCE EXISTING CHAIN LINK FENCE EXISTING WOOD FENCE EXISTING FIRE HYDRANT M EXISTING SANITARY SEWER MANHOLE EXISTING STORM SEWER MANHOLE EXISTING UTILITY POLE EXISTING ELECTRIC BOX OR TRANSFORMER PROPOSED 100 YEAR FLOODPLAIN EXISTING WATER LINE EXISTING SANITARY SEWER & FLOW DIRECTION EXISTING UTILITY POLE EXISTING SANITARY SEWER & FLOW DIRECTION EXISTING UTILITY POLE EXISTING UNDERGROUND TELEPHONE LINE EXISTING SANITARY SEWER & FLOW DIRECTION EXISTING UNDERGROUND TELEPHONE LINE EXISTING UNDERGROUND TELEPHONE LINE EXISTING UNDERGROUND TELEPHONE LINE EXISTING GAS LINE
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Add as a 3rd paragraph:

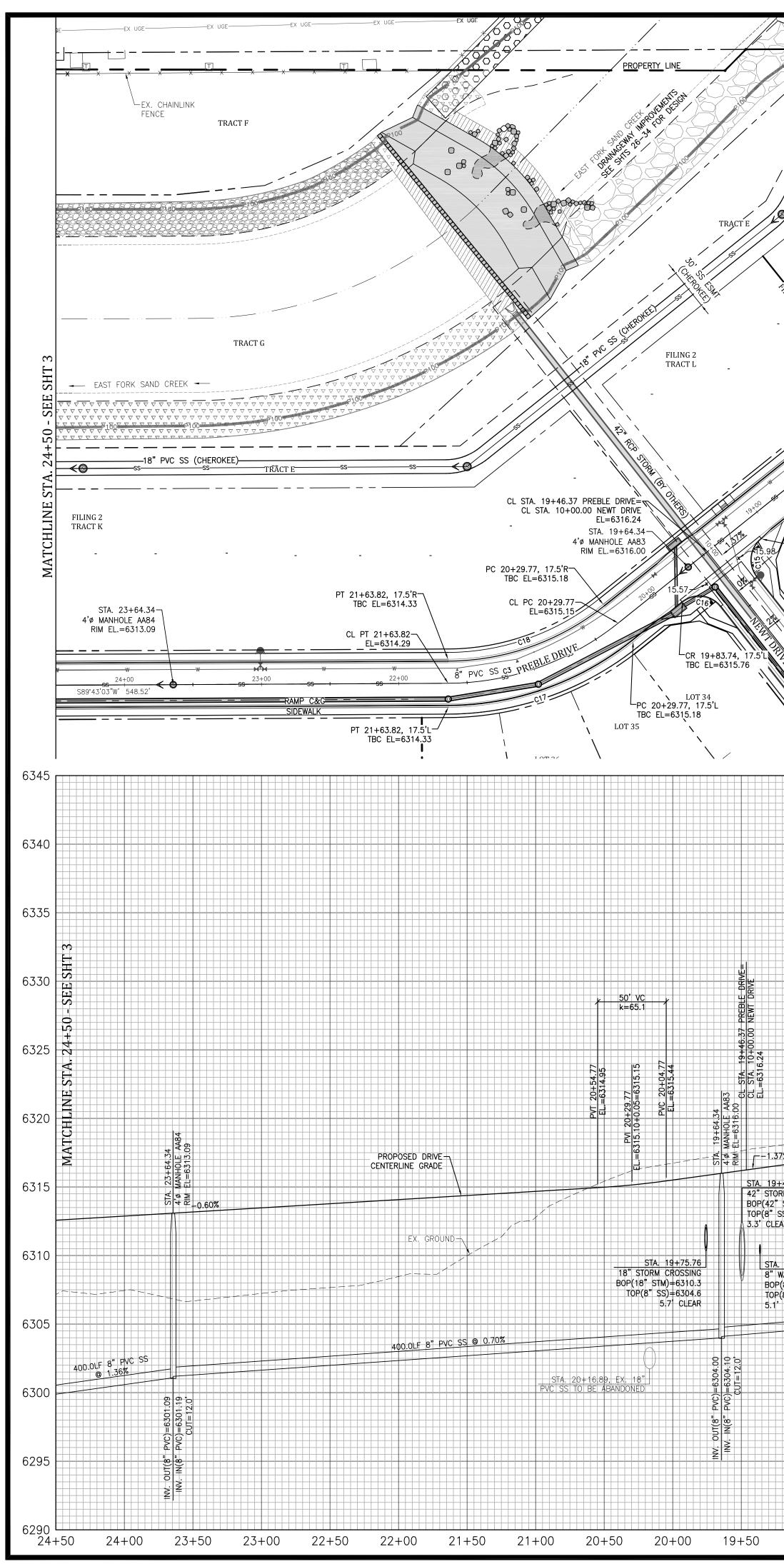
In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion.

[Moving forward this statement must be included in the EPC signature block for construction drawings.

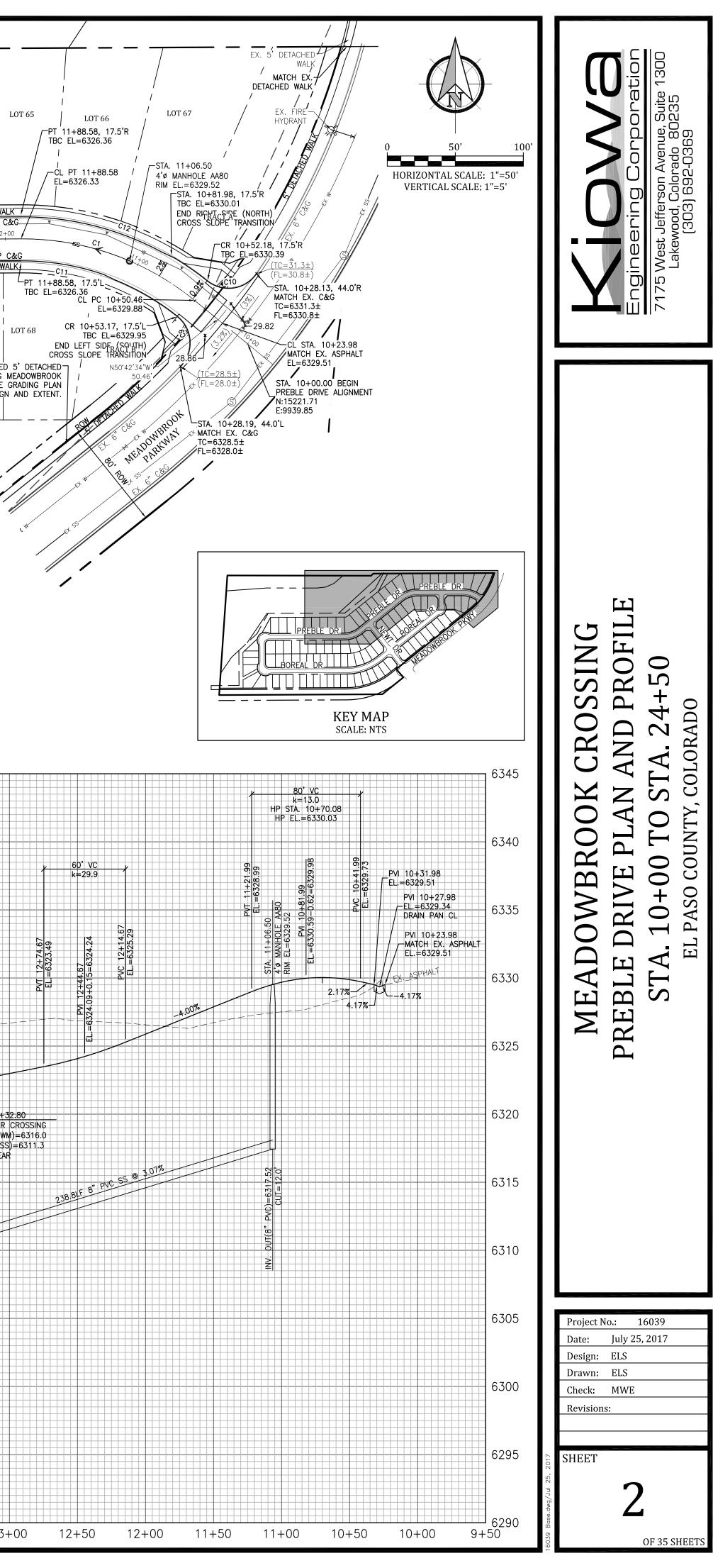
CONTACTS					
SERVICE DEVELOPER	ENTITY MEADOWBROOK CROSSING LLC 90 SOUTH CASCADE AVENUE, SUITE 1500 COLORADO SPRINGS, CO 80903	POINT OF CONTACT			
CIVIL ENGINEER	KIOWA ENGINEERING CORPORATION 1604 SOUTH 21ST STREET COLORADO SPRINGS, CO 80904	(719) 630–7342			
JURISDICTION:	EL PASO COUNTY PLANNING & COMMUNITY DEVELOPMENT DEPARTMENT 2880 INTERNATIONAL CIRCLE, SUITE 110	(719) 520–6300			
WASTEWATER & WATER:	CHEROKEE METROPOLITAN DISTRICT 6250 PALMER PARK BLVD	(719) 597–5080			
FIRE:	CIMARRON HILLS FIRE DEPT 1835 TUSKEGEE PLACE	(719) 591–1960			
GAS/ELEC:	SPRINGS UTILITIES 7710 DURANT DRIVE	ROBERT ESTES (719) 668–5904			
PHONE:	CENTURY LINK 7925 INDUSTRY ROAD #112	PATTI MOORE (719) 278–4681			
CABLE:	COMCAST 213 NORTH UNION BLVD	DALE STEWART (719) 442–4733			

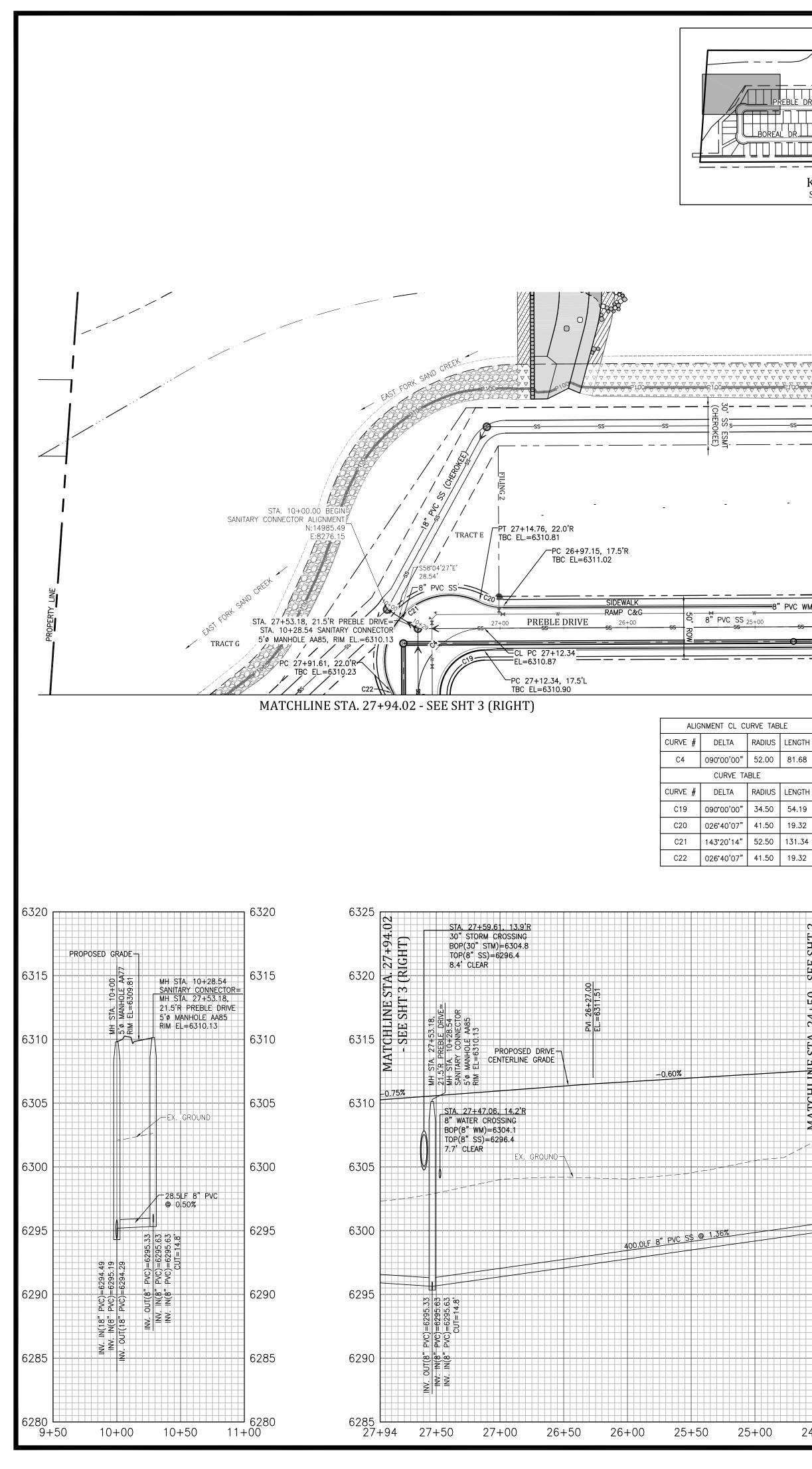
Add: PCD Project No. SF-

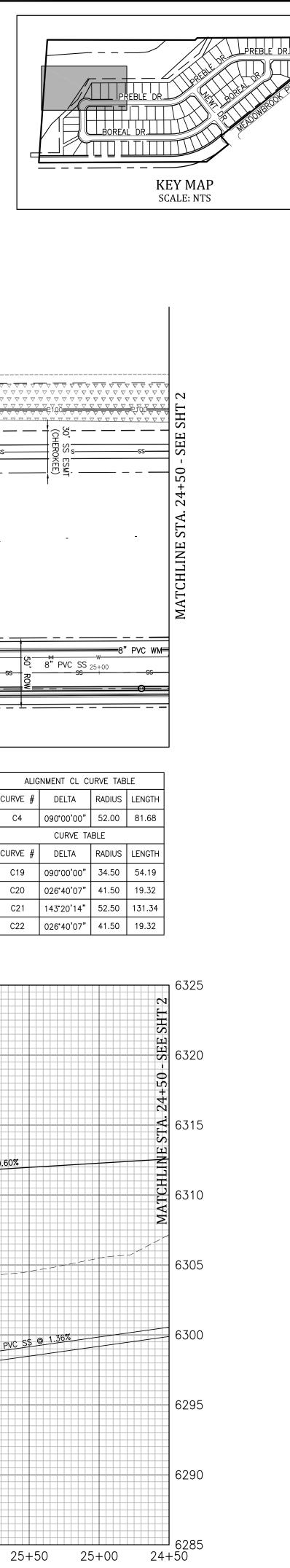
1 2 3 4 5 6-7 8 9-10 11-12 13-14 15 16 17 DT1 18-19 20 21 22-23 24 DT2 25 DT3	INDEX OF SHEETS COVER SHEET PLAN AND PROFILE - PREBLE DRIVE PLAN AND PROFILE - PREBLE AND BOREAL DRIVE PLAN AND PROFILE - BOREAL DRIVE PLAN AND PROFILE - NEWT DRIVE PLAN AND PROFILE - MEADOWBROOK PKWY CONCEPTUAL OVERALL SIGNAGE & STRIPING PLAN STORM SEWER PLAN AND PROFILE OVERALL GRADING AND EROSION CONTROL PLAN EROSION CONTROL DETAILS WATER QUALITY AREA PLAN & DETAILS WATER QUALITY AREA DETAILS DETAIL SHEET - SITE DETAILS UTILITY PLAN WATER MAIN PLAN AND PROFILE UTILITY SERVICES PLAN SANITARY SEWER MAIN RELOCATION PLAN AND PROFILE DETAIL SHEET - UTILITY DETAILS DETAIL SHEET - UTILITY DETAILS		Engineering Corporation 7175 West Jefferson Avenue, Suite 1300 Lakewood, Colorado 80235 (303) 692-0369
26DT427-28	DETAIL SHEET - UTILITY DETAILS LOWER EAST FORK SAND CREEK PLAN AND PROFILE LOWER EAST FORK SAND CREEK GRADING PLAN CHANNEL CROSS SECTIONS DETAIL SHEET - CHANNEL DETAILS DETAIL SHEET - CHANNEL DETAILS		
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Sign	ed: Date:	Project No.	
	CHEROKEE METROPOLITAN DISTRICT WATER PLAN DESIGN APPROVAL ROVED BY: DATE: proval expires one (1) year from the date above and resubmittal of these plans for review and approval is required if construction does not begin during this period.	Design: E Drawn: E	uly 25, 2017 LS LS IWE
	CHEROKEE METROPOLITAN DISTRICT WASTEWATER PLAN DESIGN APPROVAL ROVED BY: DATE: oproval expires one (1) year from the date above and resubmittal of these plans for review and approval is required if construction does not begin during this period.	O39 Bose.dwg/Jul 25, 2017	1 OF 35 SHEETS

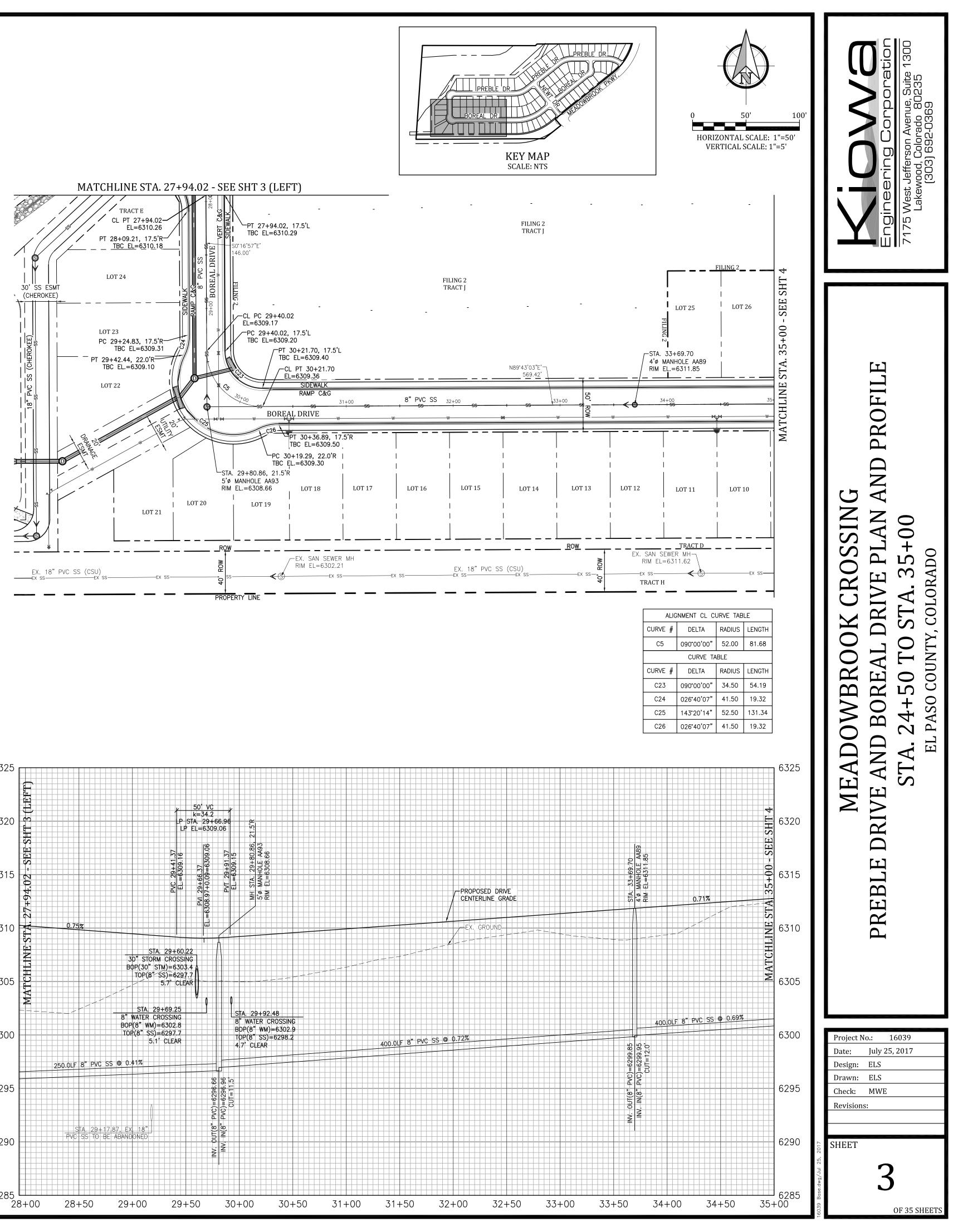


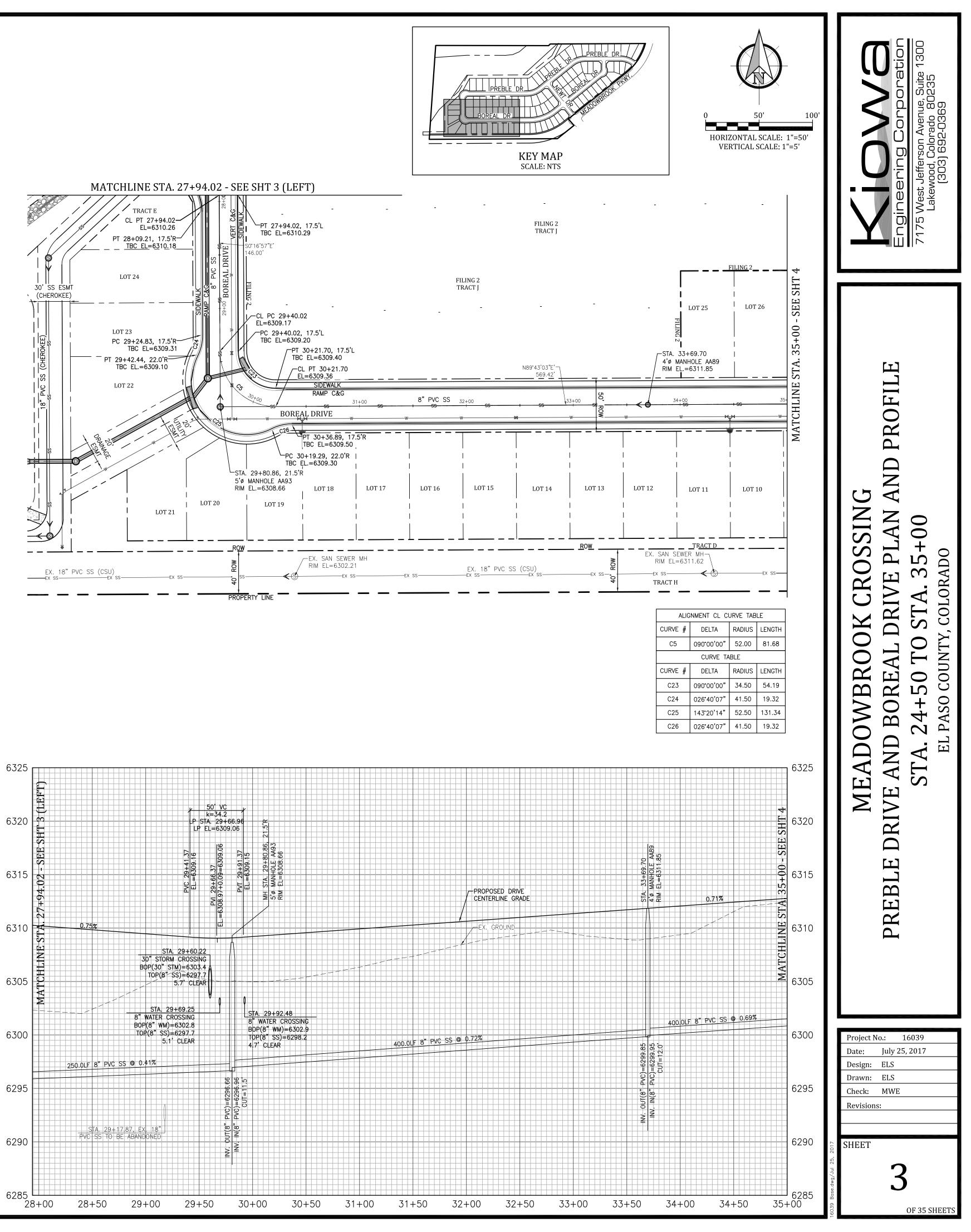
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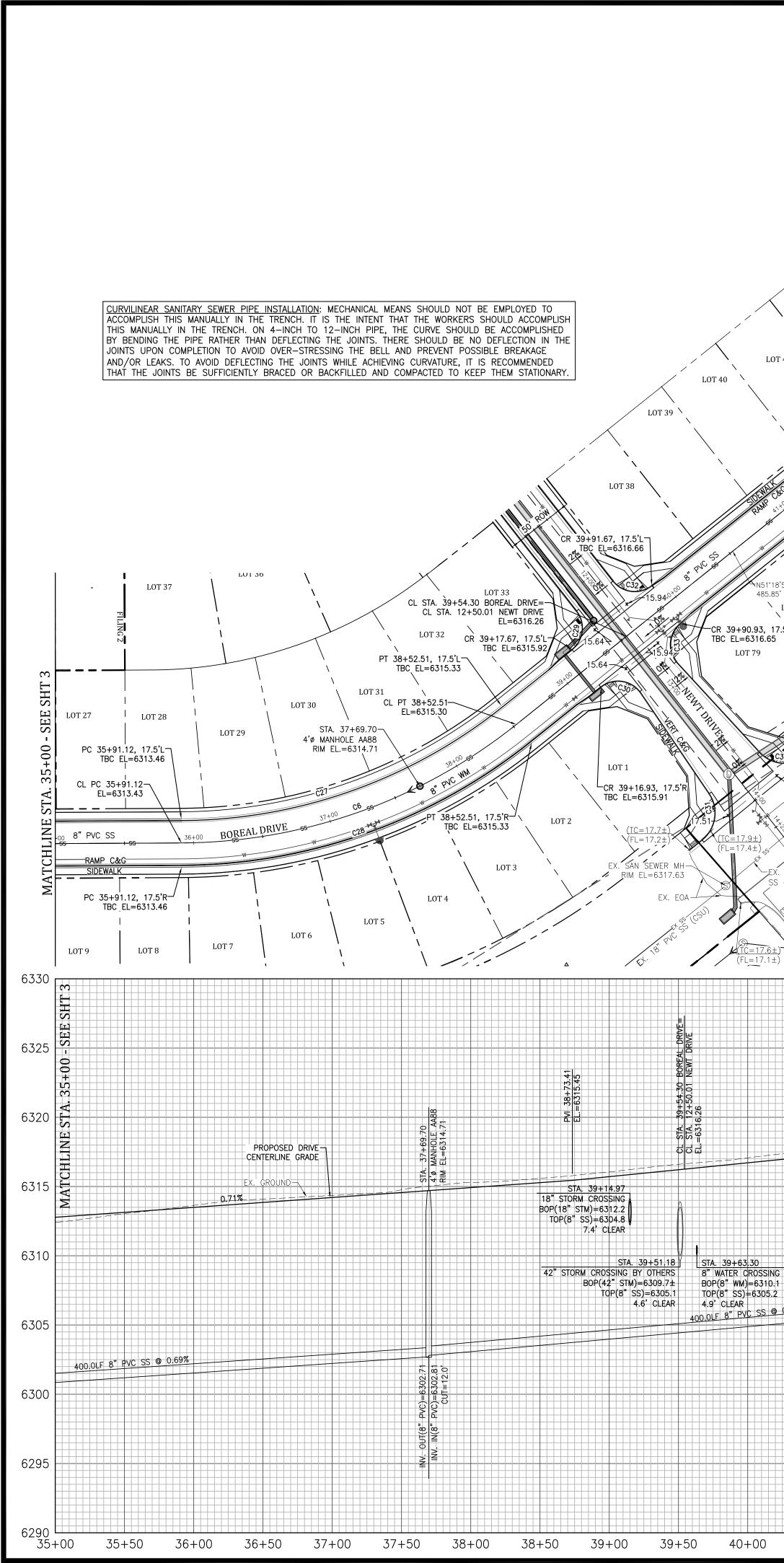




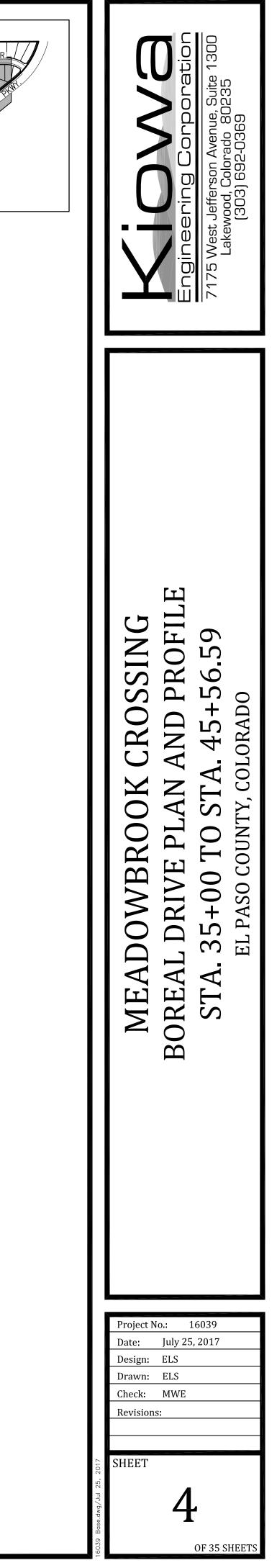


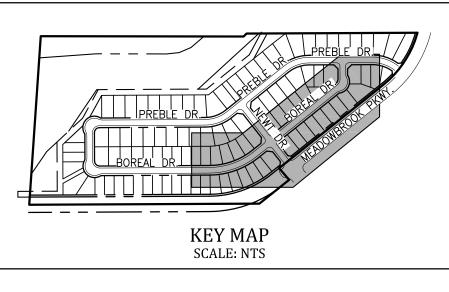


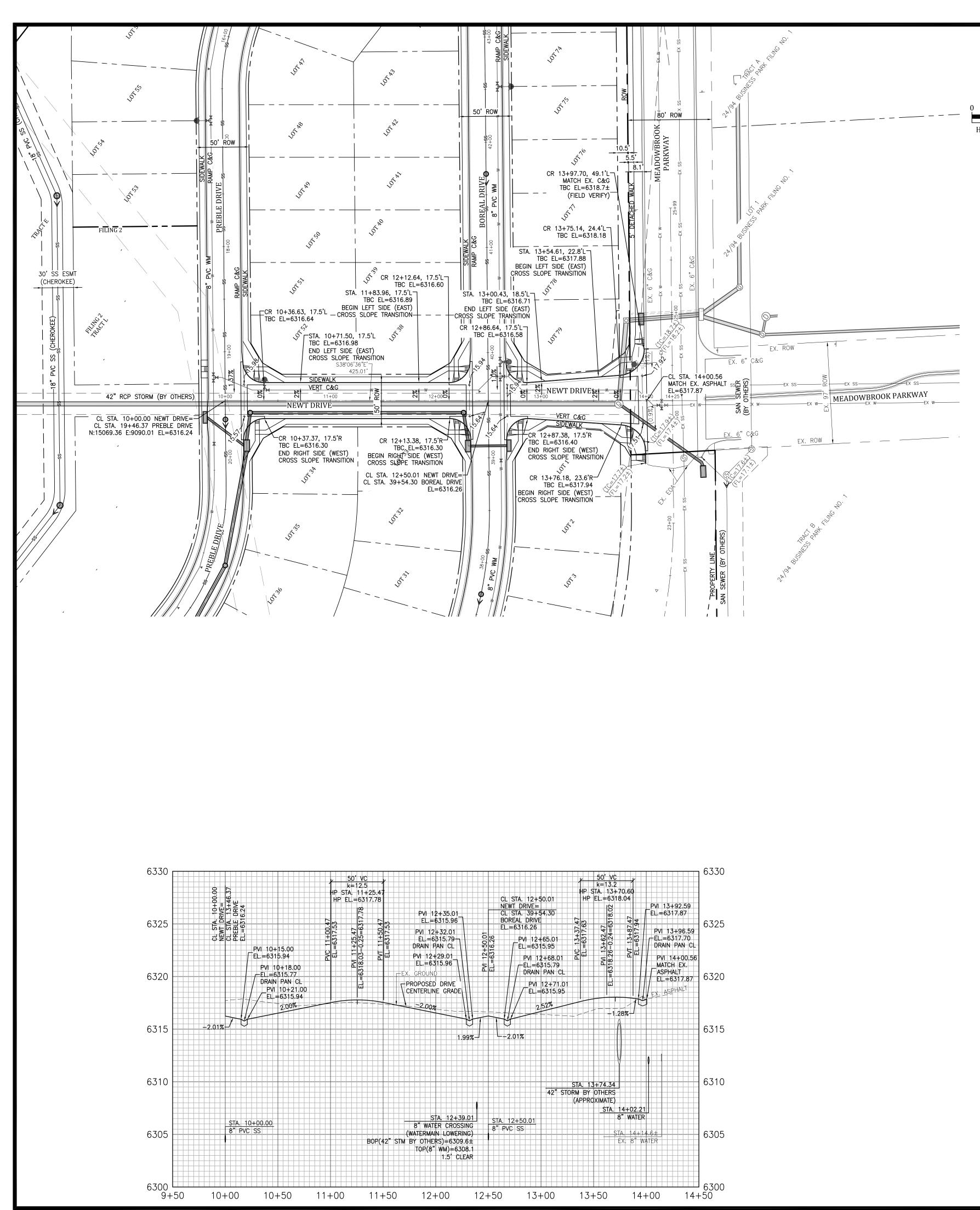


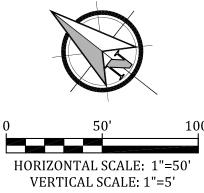


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17 A A A A A A A A A A A A A A A A A A A	EX. SÁN SEWER M RIM EL=6318.38 INV IN(NE)(30"DIP) INV OUT(SE)(30"DI INV OUT(SW)(18"P)=6303.68						C35 048*	57'56" 24.50 36.76 32'43" 182.50 154.63
EX. 18" PVC	41	VC)=6303.18						C37 093°	29'54" 217.50 187.90 03'03" 19.50 31.67 54'08" 19.50 29.92
EX. 18" PVC 4 SS (CSU) SS (CSU) SAN OTHER SAN OTHER BT 4									
						9 <u>8</u> 0		79 BOREAL DRIVE=	6330
						V STA. 44+06.52 (4*@ MANHOLE AA86 RIM EL=6320.78 V 44+08.36 EL=6320.80	CL STA. 13+42	BUREAL URIVE .80 PREBLE DRIVE EL.=6322.13	
		E AA87 8.41		PROPOSED DRIVI CENTERLINE GRADI		LSTA. 44+ RIM EL=6 	PVI EL	45+31.79 =6321.83	6325
		ETA. 41+69.70 STA. 41+69.70 4'Ø MANHOLE AA87 RIM EL=6318.41					0.84%		6320
		9%							
							STA. 44+39.13 8" WATERMAIN		6315
NG 0.1			236.8LF 8	PVC \$S @ 0.96%					6310
.2 @ 0.90%						PVC)=6308.78 CUT=12.0'			6305
		PVC)=6306.41 PVC)=6306.51 CUT=12.0'				0011(8"			
		00H(8"							6300
									6295
40+50	41+00 4	1+50 42+00	42+50	43+00	43+50	44+00	44+50	45+00 45+	50 46+00

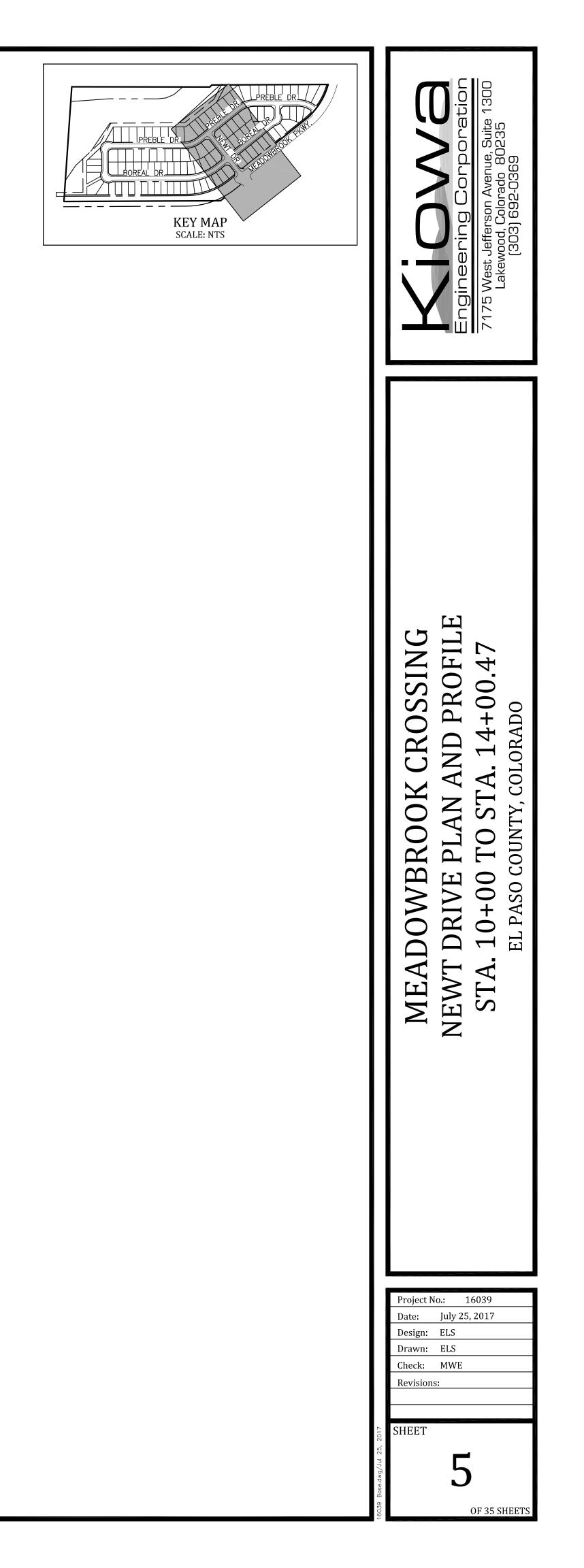


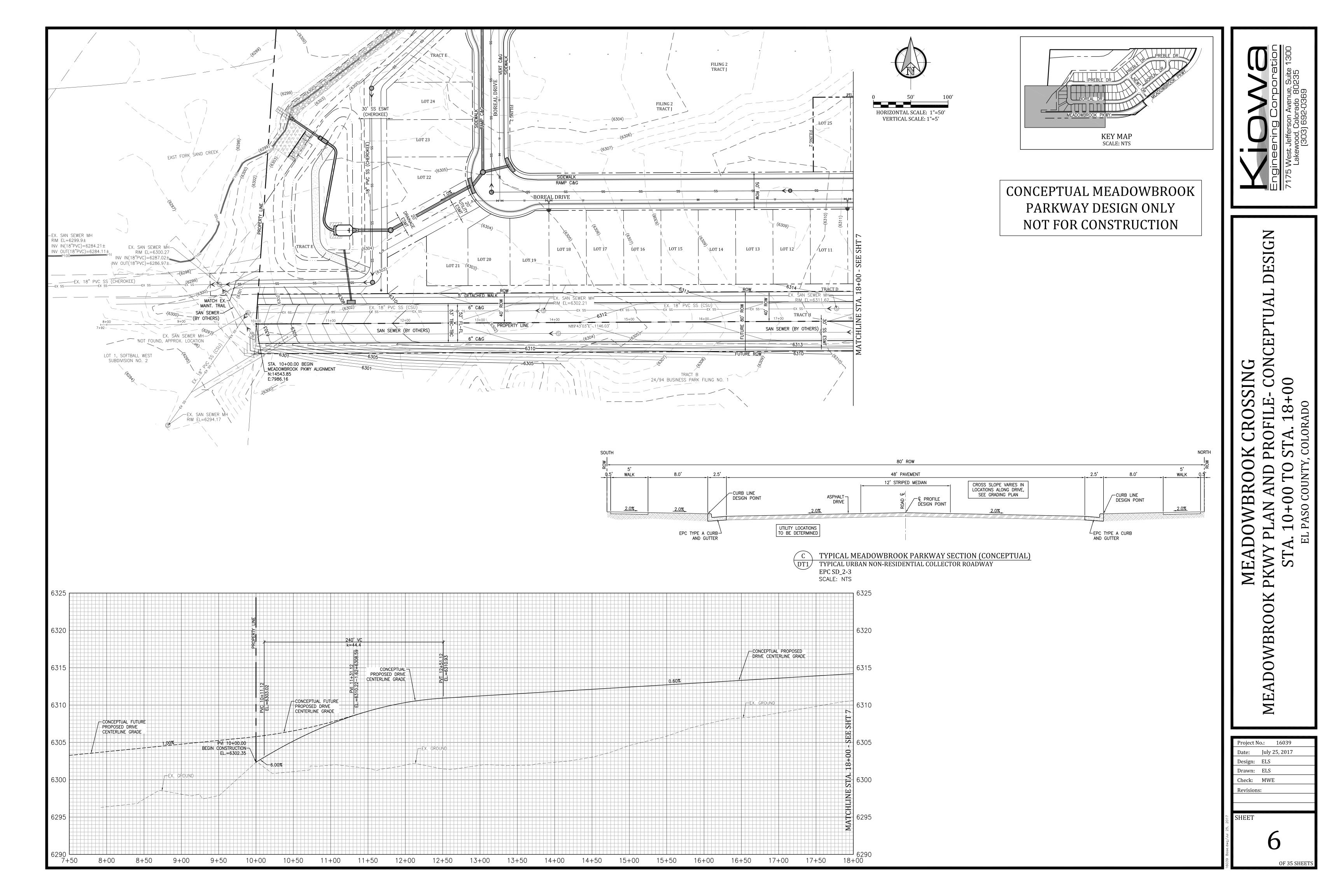


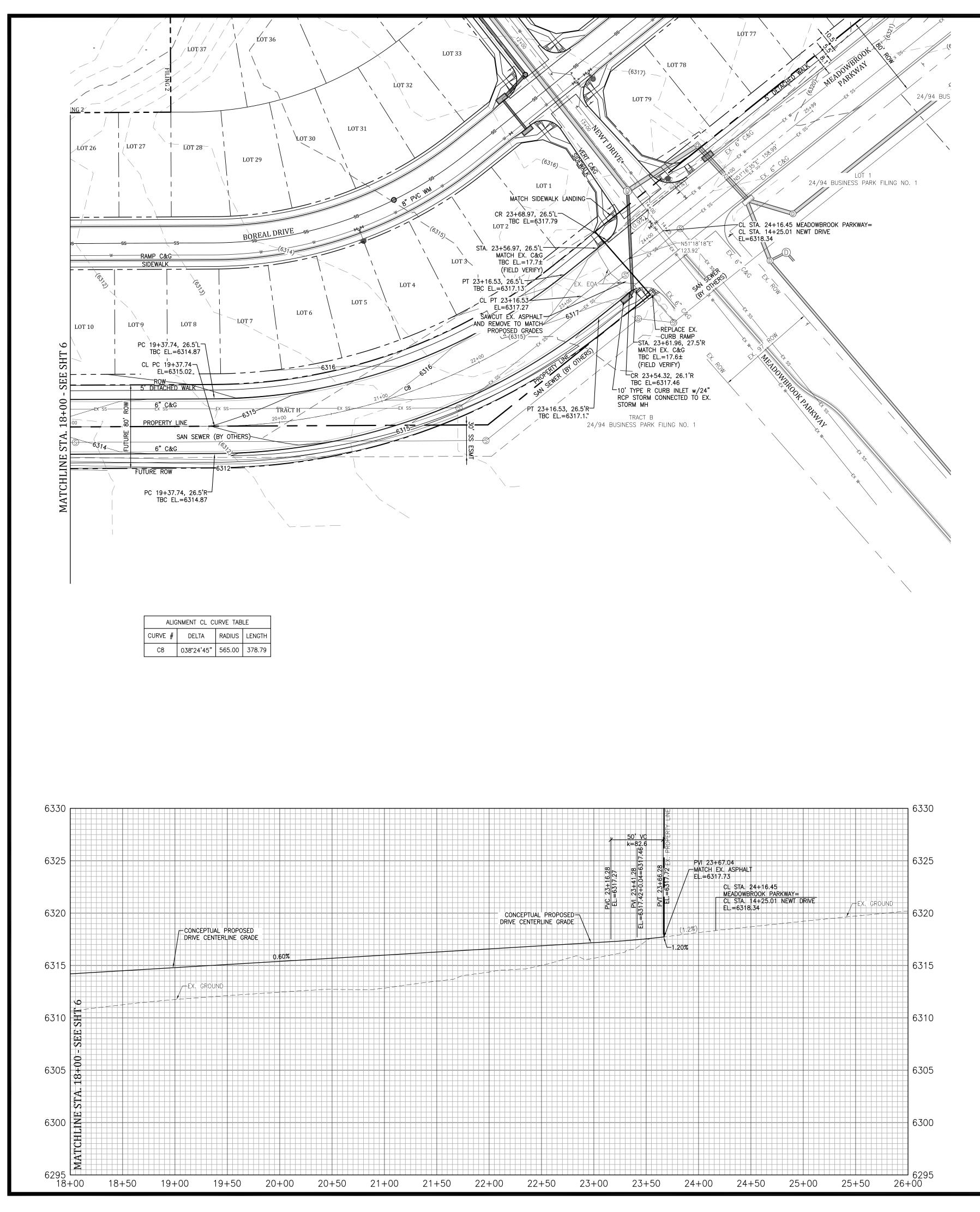


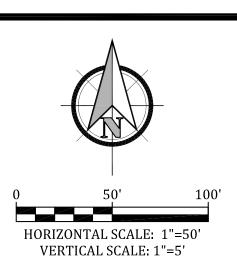


NOTE: 1. THE 42" RCP (BY OTHERS) MUST BE IN PLACE PRIOR TO ASPHALT PAVEMENT INSTALLATION.

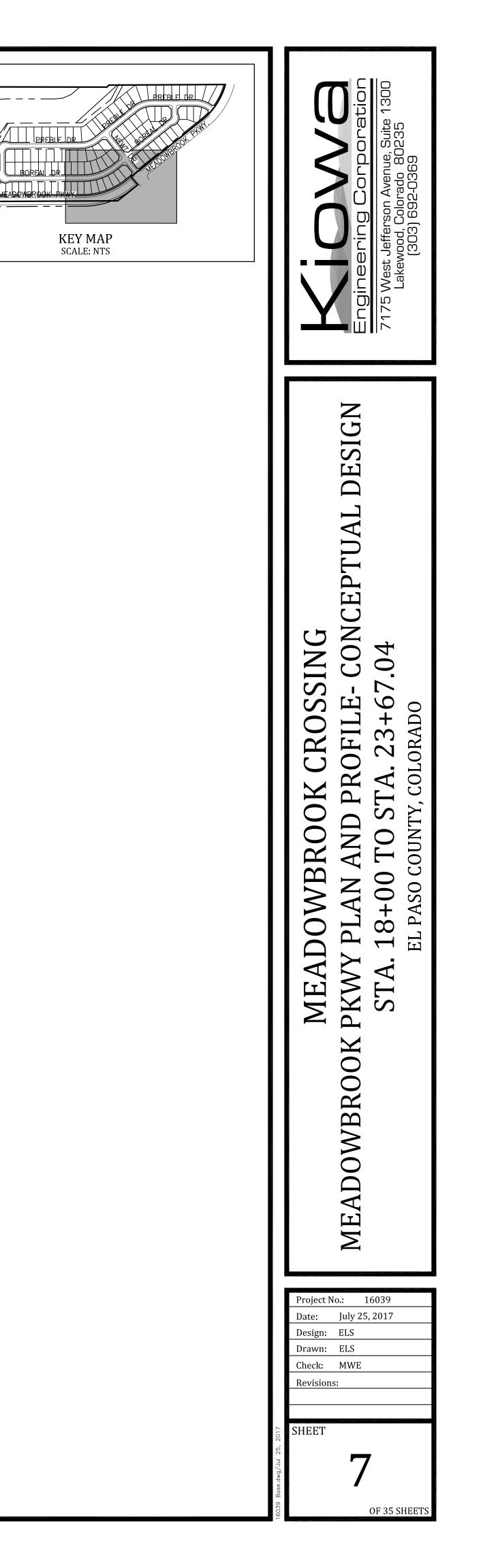


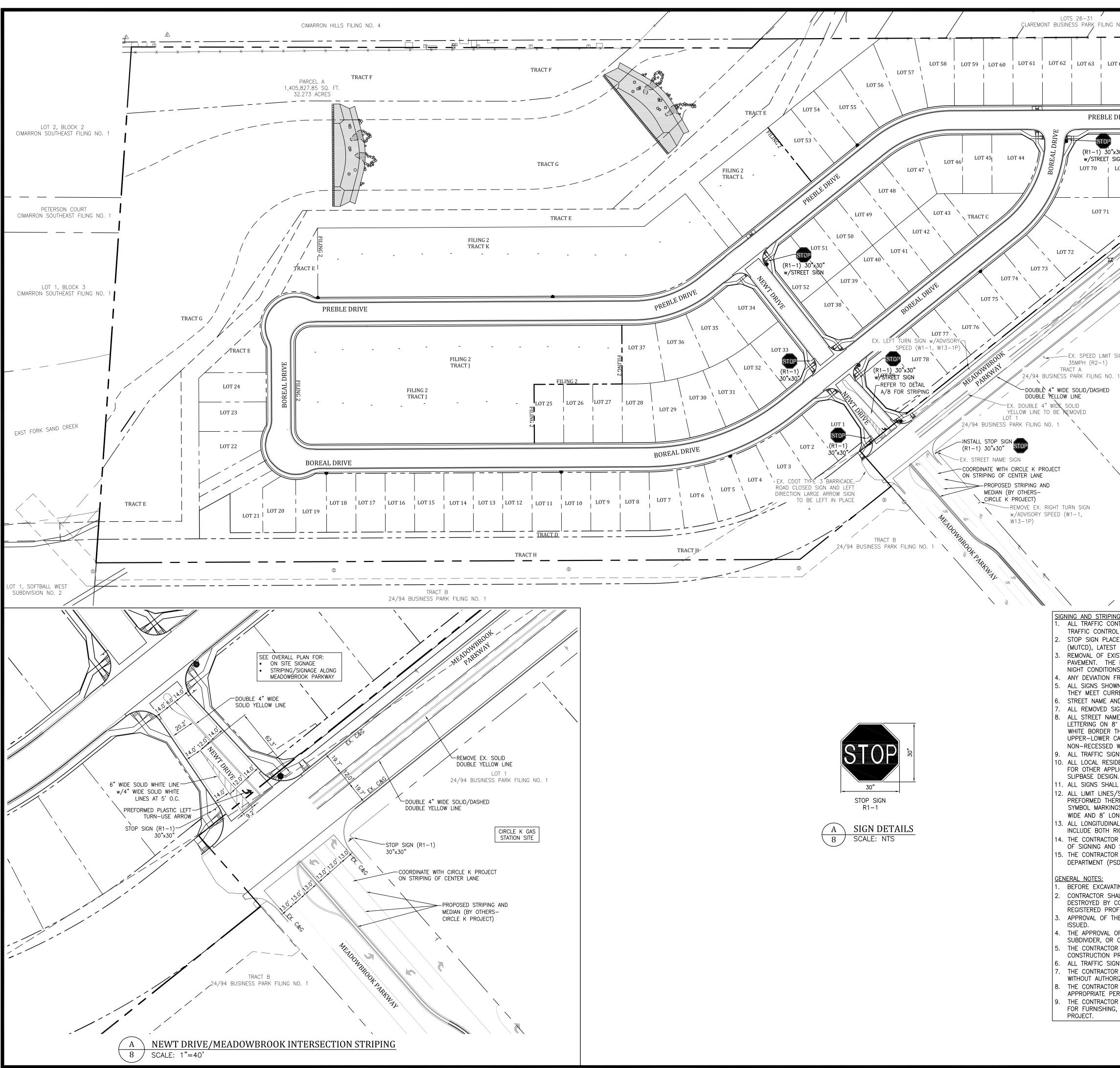






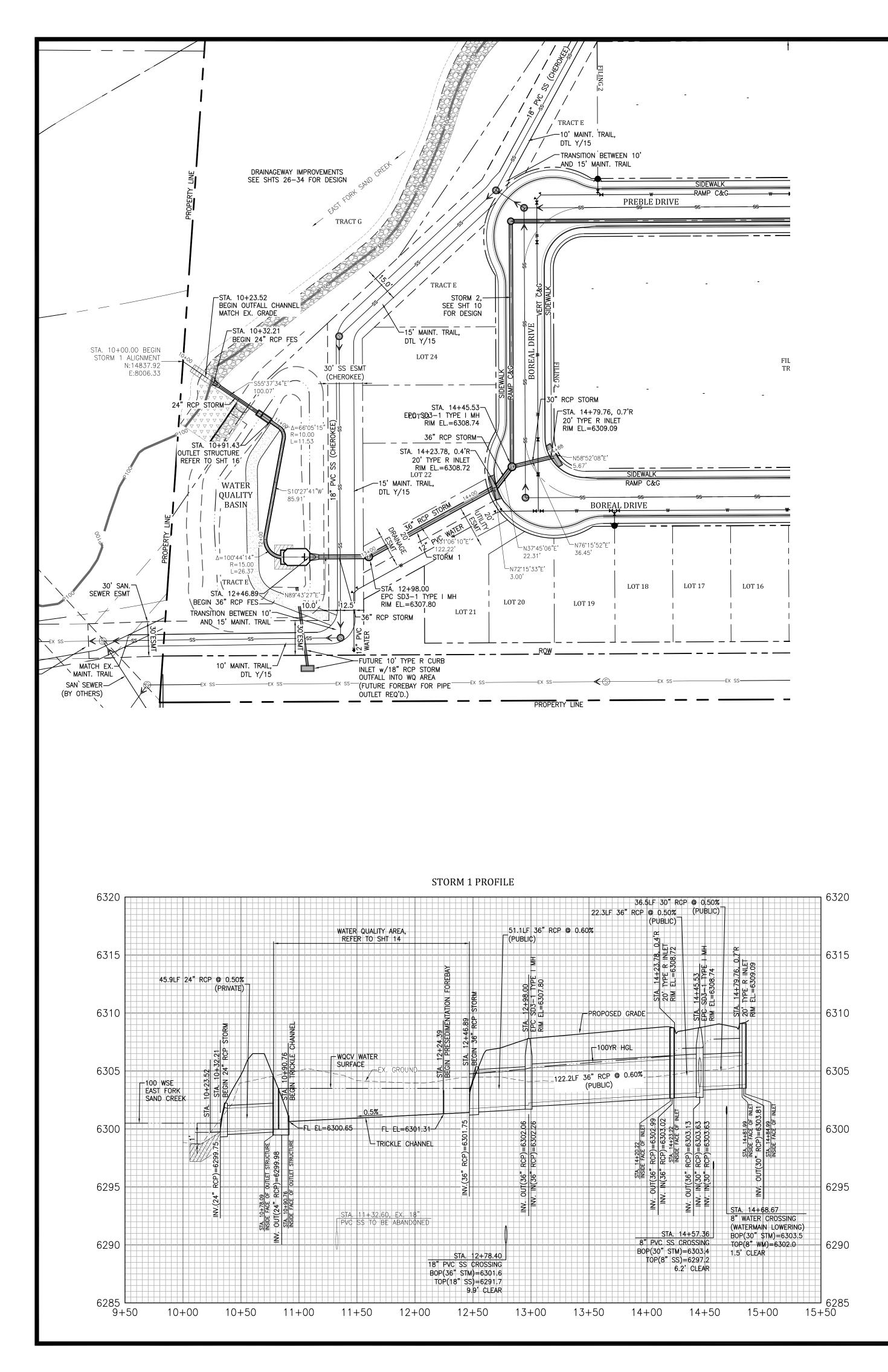
CONCEPTUAL MEADOWBROOK PARKWAY DESIGN ONLY NOT FOR CONSTRUCTION

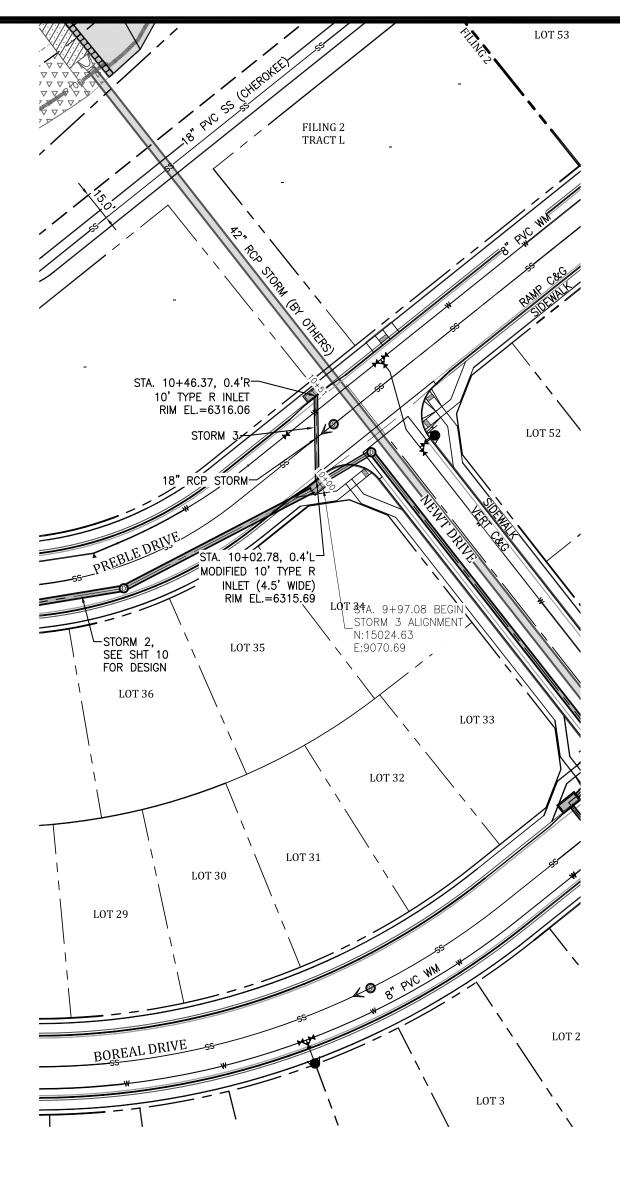


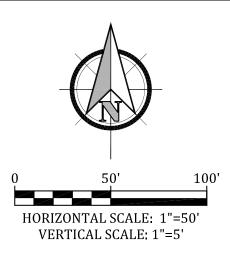


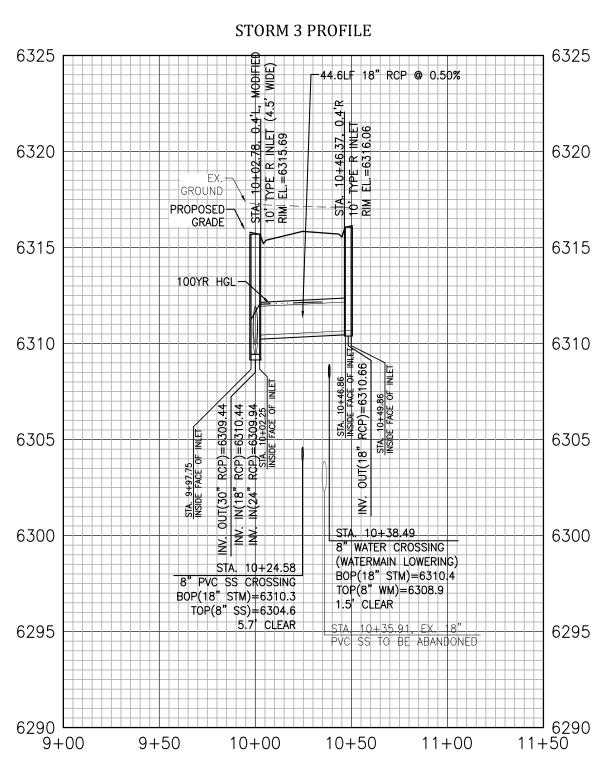
NO. 2 TRANSITION PROPOSED STRIPING TO MATCH EX. STRIPING AT PROPERTY LINE. 10:1 TAPER DOUBLE 4" WIDE SOUD/DASHED DOUBLE 4" WIDE SOUD/DASHED TRACT A// RIVE TRACT A// SCALE: 1"=80' SCALE: 1"=80'	Engineering Corporation 7175 West Jefferson Avenue, Suite 1300 Lakewood, Colorado 80235 (303) 692-0369
AUTO: THE PAGE CONSTAND PAREMENT IMPRINOS SHALL EE IN CONDORANCE WITH THE MANUAL DN UNFORM AUTO: THE PAGE SHALE AND PAREMENT IMPRINOS SHALL EE IN CONDORANCE WITH THE MANUAL DN UNFORM INFORMATION PAGE SHALE PERFECTION DR-9 CT THE MANUAL DN UNFORM DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE PLAN. DEVICES (UNTOE), THE CURRENT COLORADO SUPPLIEMENT AND THE PREVICE OLIVECTOR DEVICES DEVICENT MARKINGS SHALL BE FRANKEPO TO THE EXTENT THE THEY WILL NOT BE VISE FUNCER NOT CO THE TASK ONE AND SIGNAL THE REMARKED SO THE CONTROL OF THE CONTROL DEVICES. DEVICENT MARKINGS SHALL BE CONTROL DEVICES THE THEY WILL NOT BE VISE FUNCER NOT CO DEVICENT MARKINGS SHALL BE CONTROL DEVICES THE CONTROL OF THE CONTROL DEVICES. DE REMARKING AND SIGNAL THE CONTROL DEVICE TARGET THE STALL THE STALL POST OF THE PREVIOUS THE STARKED OF THE THESE MARKED BY A METHOD THAT DOLS NOT METERIALLY DAMACE THE STARK BENER DEVICES OF THAT A PREVIOE TO THE PREVIOUS OF THE PREVIOUS STARKED BY THE ASSO CONTROL ADD STARKED AND AND THE PREVIOUS ALL THESE CONTROL. DE REMARKING AND STARKED AND AND A THE PREVIOUS DATA THE CONTROL OF THE STARK BENER DEVICES OF THAT A PREVIOUS ON ALL THE PREVIOUS OF THE PREVIOUS OF THE PREVIOUS OF THE PREVIOUS AND THE PREVIOUS OF THE PREVIOUS ON ALL THE PREVIOUS OF THE PREVIOUS OF THE PREVIOUS OF THE PREVIOUS ON AND STARKED AND THE PREVIOUS ON ALL THE PREVIOUS OF THE PREVIOUS ON AND STARKED AND THE PREVIOUS ON ALL THE PREVIOUS ON AL THE PREVIOUS ON	MEADOWBROOK CROSSING OVERALL SIGNAGE AND STRIPING PLAN EL PASO COUNTY, COLORADO
NG, CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES. LL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR ONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A TESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING. ESE PLANS BY THE COUNTY DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN F THESES PLANS OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE CONTRACTOR, DWNER TO VIOLATE ANY FEDERAL, STATE, OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES. SHALL BE RESPONSIBLE FOR ALL NEW, TEMPORARY AND EXISTING TRAFFIC SIGNS FROM THE START OF THE ROJECT UNTIL ACCEPTANCE BY EL PASO COUNTY. IS, PAVEMENT, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS. SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENT MARKINGS OR TRAFFIC SIGNALS DURING THE PROJECT ZATION OF THE ENGINEERING INSPECTOR ASSIGNED TO THE PROJECT. SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO EL PASO COUNTY FOR APPROVAL, AND OBTAIN RMITS. SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE INSTALLING AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE	Project No.: 16039 Date: July 25, 2017 Design: ELS Drawn: ELS Check: MWE Revisions:

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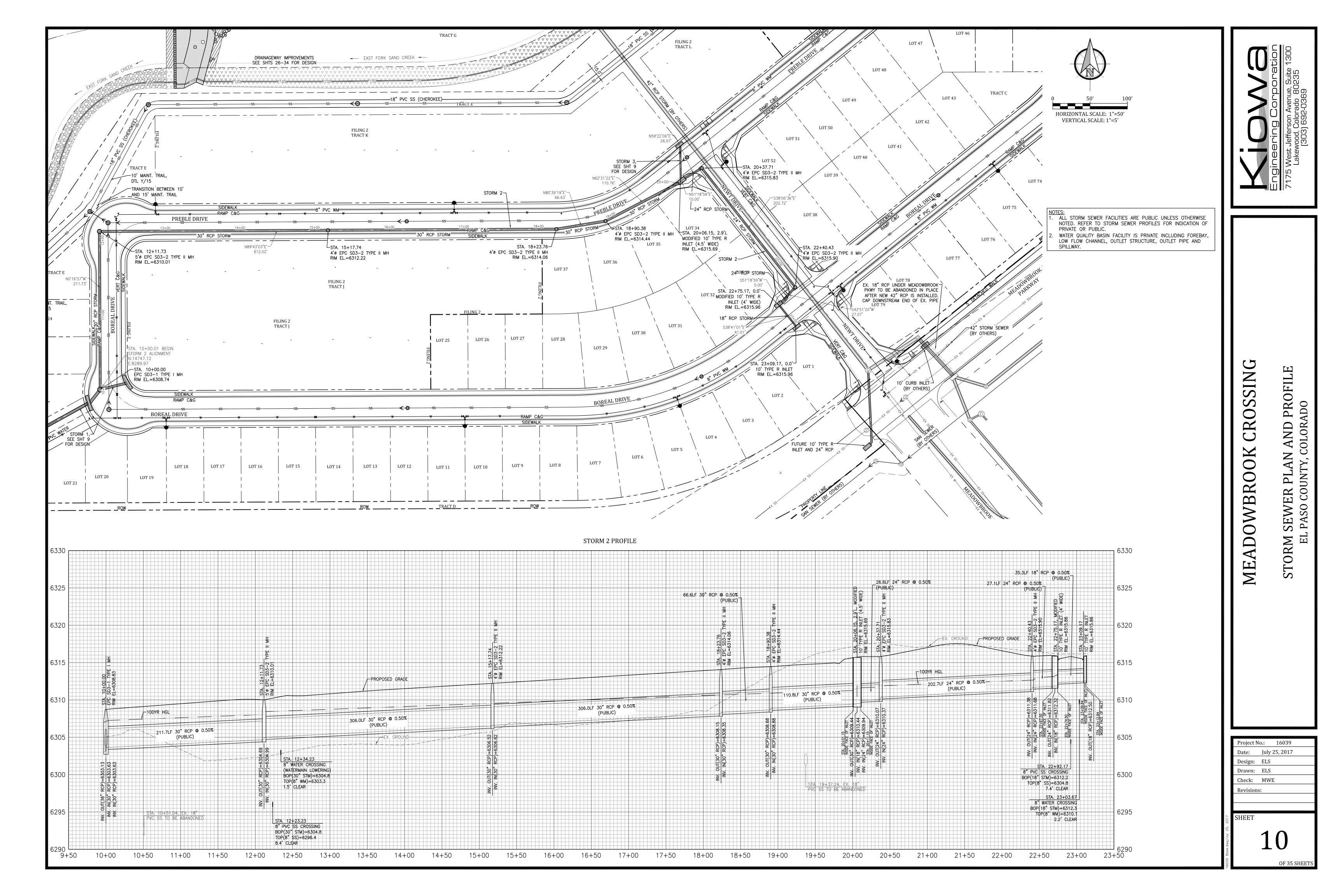


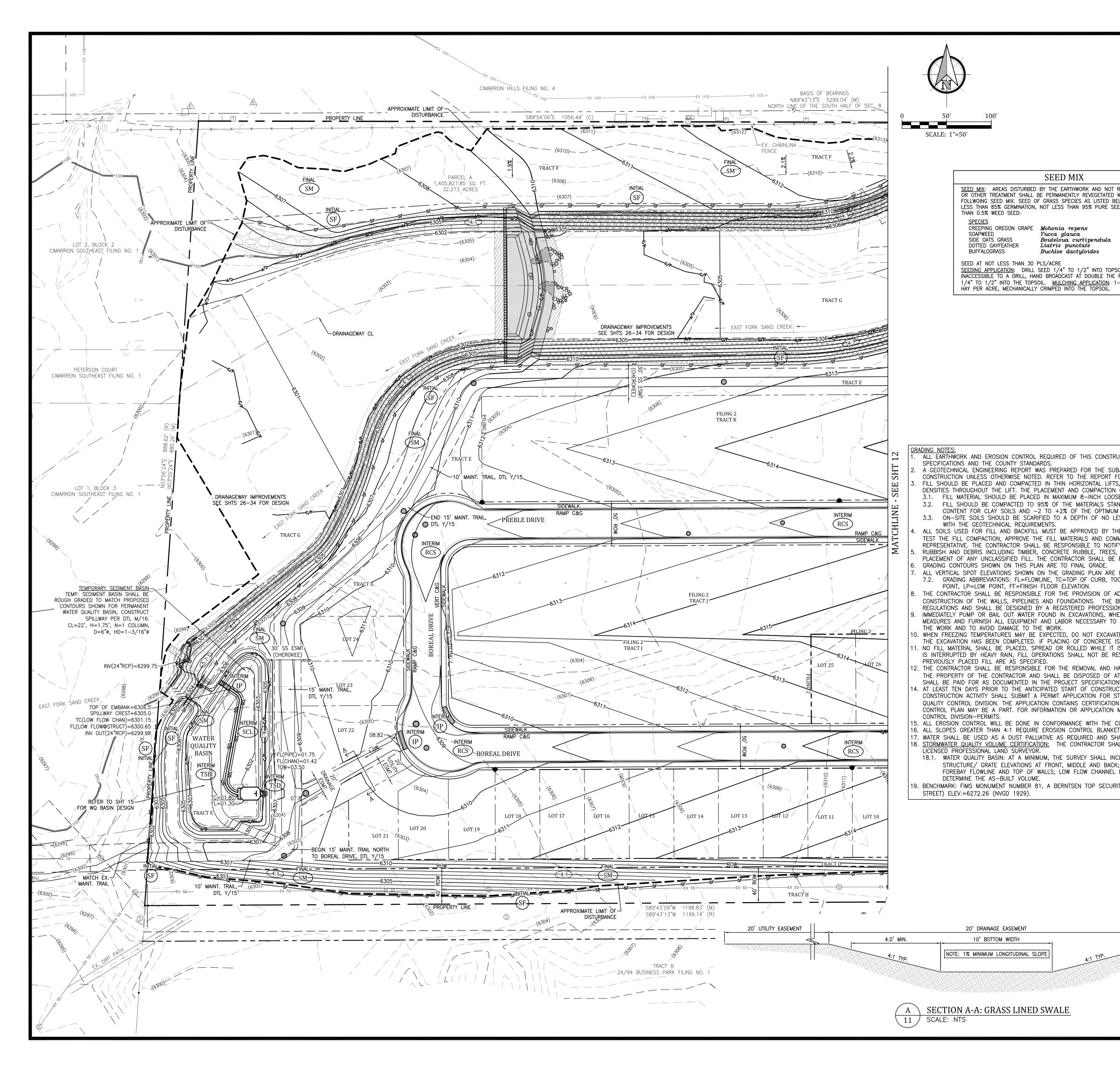




NOTES: 1. ALL STORM SEWER FACILITIES ARE PUBLIC UNLESS OTHERWISE NOTED. REFER TO STORM SEWER PROFILES FOR INDICATION OF PRIVATE OR PUBLIC. WATER QUALITY BASIN FACILITY IS PRIVATE INCLUDING FOREBAY, LOW FLOW CHANNEL, OUTLET STRUCTURE, OUTLET PIPE AND SPILLWAY.

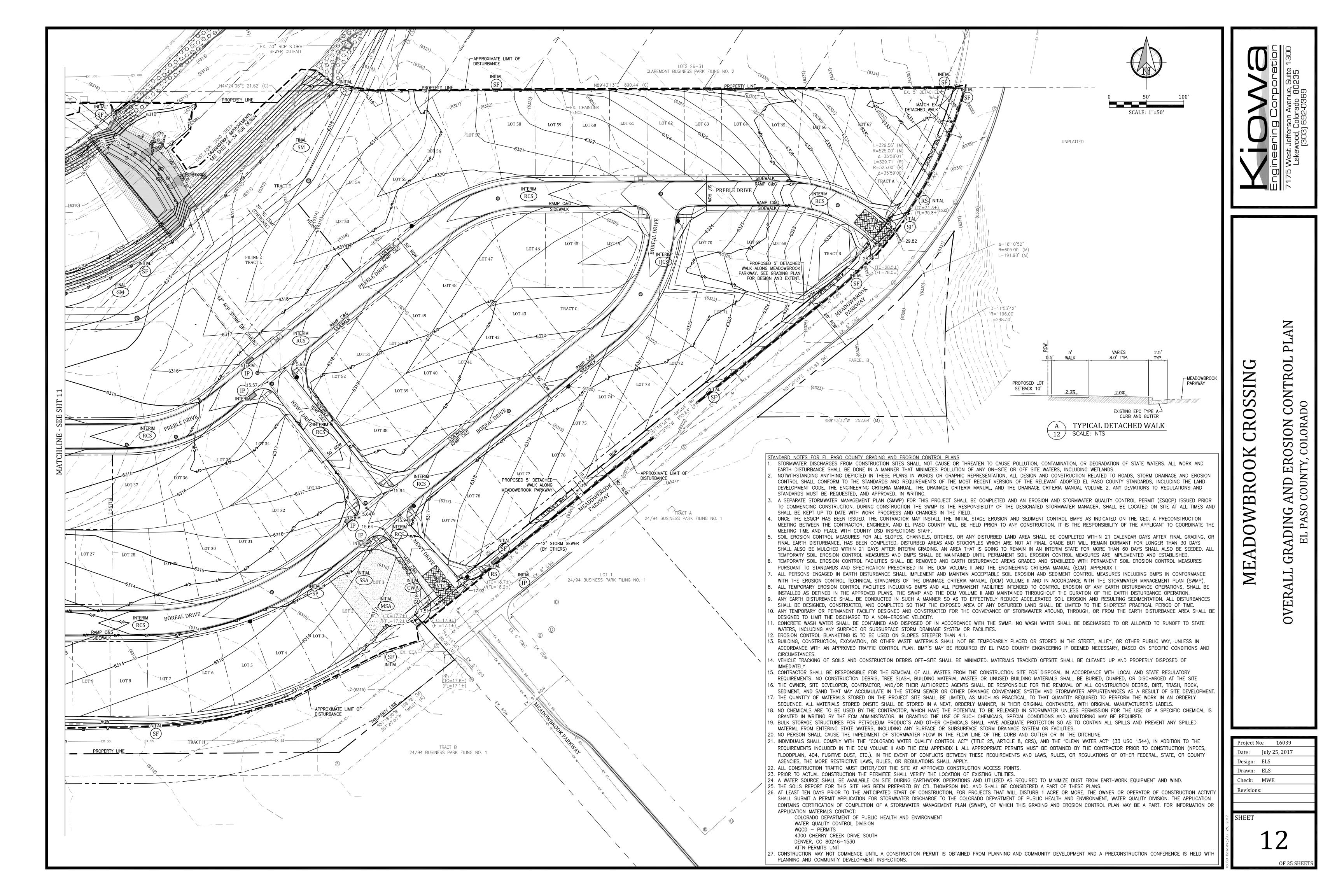
39 Base.dwg/Jul 25, 2017		
Project No.: Date: July Design: ELS Drawn: ELS Check: MV Revisions: SHEET	MEADOWBROOK CROSSING	
5	STORM SEWER PLAN AND PROFILE	Engineering Corporation 7175 West Jefferson Avenue, Suite 1300
	EL PASO COUNTY, COLORADO	Lakewouu, Julurauu ouzaa (303) 692-0369

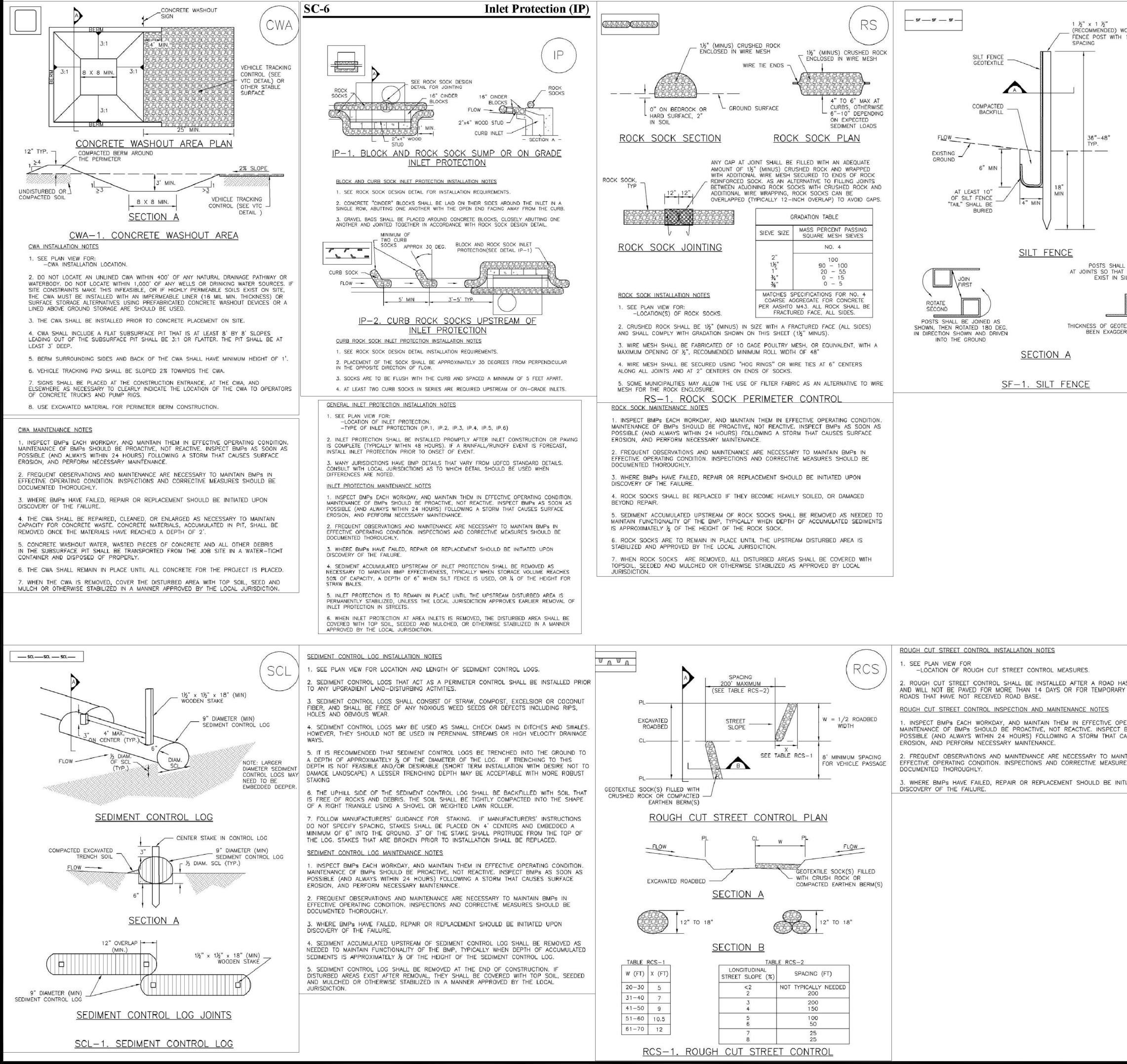




	LEGEND		
	PROPERTY OR ROW LINE EXISTING EASEMENT	II (1	1300 1300
	EX W EXISTING WATER LINE EX SS EXISTING SANITARY SEWER	~	Drati Suite 13 235
		<	Ω B ^r _L e
	EX T EXISTING UNDERGROUND TELEPHONE LINE		Avenue Drado 8(2-0369
	EX G EXISTING GAS LINE P100 PROPOSED 100 YEAR FLOODPLAIN	11 r	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Jefferson vood, Colc (303) 69
	PROPOSED CONTOURS	. –	Vest Jeffer akewood, (
FRECEIVING PAVEMENT WITH THE BELOW WITH NOT	CUT/FILL DEMARCATION LINE		West
SEED AND NOT MORE	x ^{15.41} PROPOSED SPOT ELEVATION (2.3%) EXISTING FLOW DIRECTION AND SLOPE	$\Pi \mathbf{V}$	175
<u>Percent of Mix</u> 15% 15%	2.3% PROPOSED FLOW DIRECTION AND SLOPE	II —	щЩķ
25% 20% 25%	4:1 PROPOSED SLOPE PROPOXIMATE LIMIT OF DISTURBANCE	/	
	(RS) ROCK SOCK (CWA) CONCRETE WASHOUT AREA		
PSOIL. IN AREAS E RATE AND RAKE 1–1/2 TONS NATIVE	(IP) INLET PROTECTION		
	MSA MATERIALS STORAGE AREA		
	TSD TEMPORARY SLOPE DRAIN		
	TSB TEMPORARY SEDIMENT BASIN RCS ROUGH-CUT STREET CONTROL		
	SM SEEDING AND MULCHING		-
	SP STOCKPILE AREA		AN
			ΡL
JBJECT SITE. THE REC FOR SOIL BORING LO TS, USING EQUIPMENT N OF FILL AND BACKE DSE LIFTS, UNLESS OT ANDARD PROCTOR MA JM MOISTURE CONTENT LESS THAN 12 INCHES THE GEOTECHNICAL EN MMENT, AS NEEDED, O TIFY THE GEOTECHNICAL EN MMENT, AS NEEDED, O TIFY THE GEOTECHNICA S, BRUSH, AND ASPH/ E RESPONSIBLE FOR T E FLOWLINE OF CURB OC=TOP OF CONCRET ADEQUATE SHORING A BRACING AND/OR SH IONAL ENGINEER. HETHER RAIN OR SEEI O CONTROL THE FLOW TATE TO THE FULL DEF IS DELAYED, PROTECT IS FROZEN OR THAW RESUMED UNTIL THE O HAULING OF UNSUITAE AT THE CONTRACTOR'S ONS. UCTION, FOR PROJECT STORM WATER DISCHA ON OF COMPLETION O I MATERIALS CONTACT: COUNTY STANDARDS. SET, NORTH AMERICAN SHALL BE INCLUDED IN HALL PROVIDE A VOLU NCLUDE THE OUTLET S CK; SPILLWAY ELEVATIC L ELEVATIONS AND A	AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND FILL SHOULD BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.	MEADOWBROOK CROSSIN	OVERALL GRADING AND EROSION CONTROL PL EL PASO COUNTY, COLORADO
	CUT (EXCESS) =21,500 CYFILL =116,200 CYSHRINKAGE (10% OF FILL) =11,600 CYNET FILL (w/SHRINKAGE) =106,300 CYNOTES:1. EARTHWORK QUANTITIES SHOWN ABOVE ARE APPROXIMATE.2. SHRINKAGE FACTOR IS ASSUMED, CONSULT GEOTECHNICAL ENGINEER FOR SHRINKAGE FACTOR.	Project N Date:	Io.: 16039 July 25, 2017
F	OPINION OF COST FOR EROSION CONTROL REQUIREMENTS ITEM QUANTITY UNITS PRICE	Design: Drawn:	ELS ELS
	PERMANENT SEEDING 6.50 AC \$582 \$3,783.00 MULCHING 6.50 AC \$507 \$3,295.50 VEHICLE TRACKING CONTROL 2 EA \$1,625 \$3,250.00 INLET PROTECTION 7 EA \$153 \$1,071.00 CONCRETE WASHOUT BASIN 1 EA \$776 \$776.00 ROUGH CUT STREET CONTROL 3,930 LF \$2 \$7,860.00 SILT FENCE 5,586 LF \$4 \$22,344.00	Check: Revision	MWE s:
	TEMPORARY SEDIMENT BASIN 1 EA \$1,625 \$1,625.00 ROCK SOCK 2 EA \$110 \$220.00 SEDIMENT CONTROL LOGS 260 LF \$3 \$715.00 TEMPORARY SLOPE DRAIN 1 EA \$750 \$750.00 STABILIZED STAGING AREA 1,110 SY \$2 \$2,220.00 TOTAL \$47,909.50	039 Base.dwg/Jul 25, 201	11 OF 35 SHEET
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OF 35 SHEETS





2. ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

DODEN 10' MAX	SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.	
	2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.	
	3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.	
	4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES, THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.	
	5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.	
	6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').	
	7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.	
	SILT FENCE MAINTENANCE NOTES	
	1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAY'S WITHIN 24 HOUR'S) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.	
OVERLAP NO GAPS 7 LT FENCE	2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.	
	3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.	
EXTILE HAS	4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".	
RATED, TYP	5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.	
	6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.	
	7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.	



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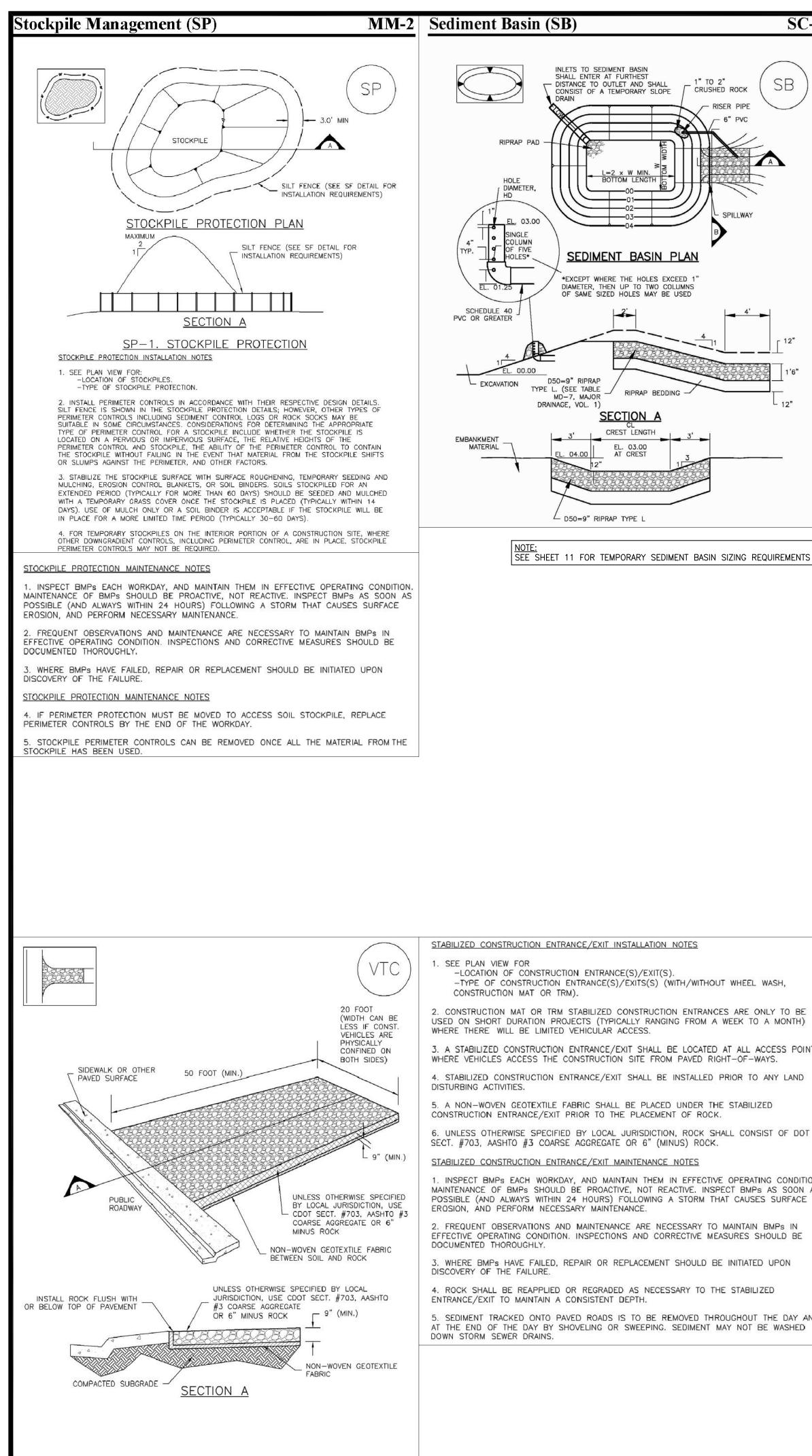
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VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

	in Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	12 ½ 21 28 33 ½ 38 ½ 43 47 ¼ 51 55 58 ¼ 61 64 67 ½ 70 ½ 73 ¼	2 3 5 6 8 9 11 12 13 15 16 18 19 21 22	932 1376 1/2 976 21/32 22/32 27/32 27/32 27/32 27/32 27/32 27/32 15/16 31/32 1 1 1/6 1 3/16

2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.

3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL. 4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15

5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698. 6. PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

SB

L 12"

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

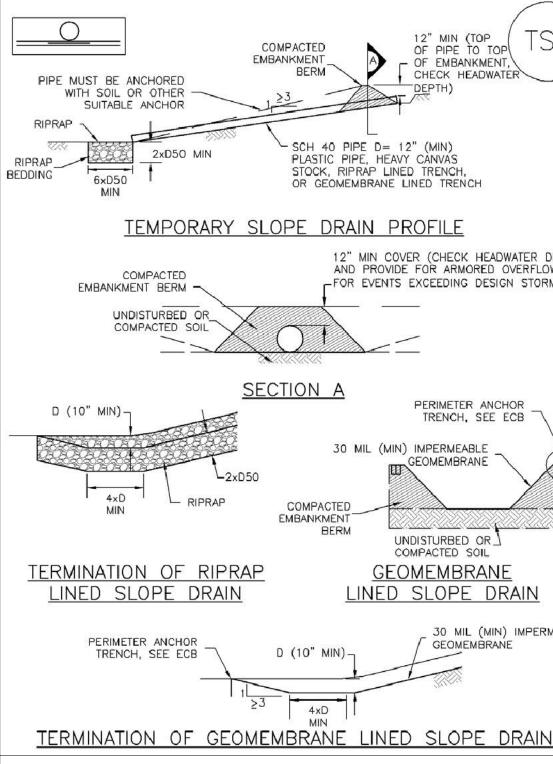
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.

6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.



	STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES
EEL WASH,	 SEE PLAN VIEW FOR LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
E ONLY TO BE TO A MONTH)	2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
L ACCESS POINTS F-WAYS.	3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
TO ANY LAND	4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
BILIZED	5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
ONSIST OF DOT	6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
	STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES
RATING CONDITION. BMPs AS SOON AS USES SURFACE	1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
TAIN BMPs IN S SHOULD BE	2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
ATED UPON	3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
BILIZED	4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
DUT THE DAY AND DT BE WASHED	5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
	NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
	(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

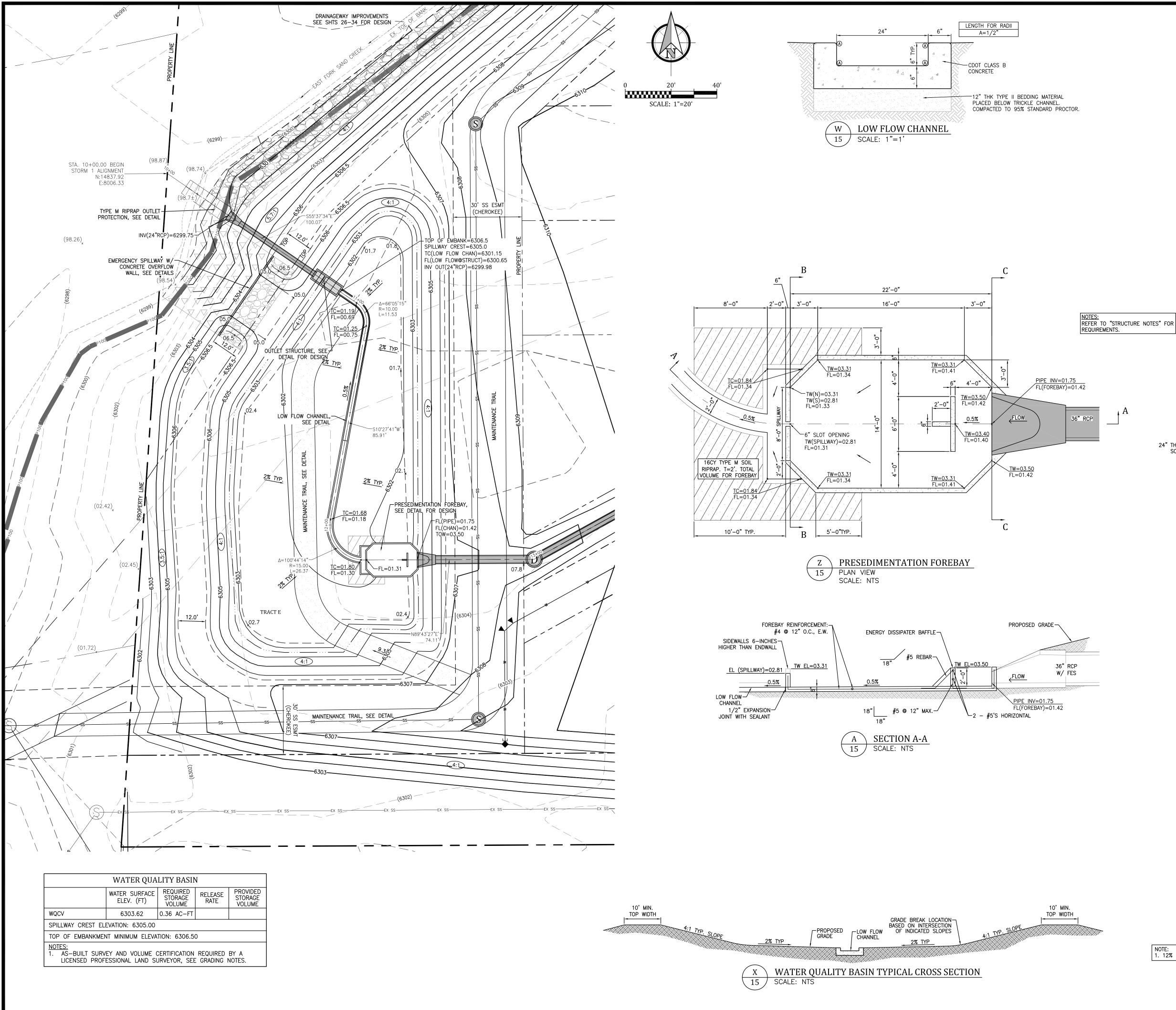
\frown	SLOPE DRAIN INSTALLATION NOTES			
DP TOP MENT, TSD	1. SEE PLAN VIEW FOR: -LOCATION AND LENGTH OF SLOPE DRAIN -PIPE DIAMETER, D, AND RIPRAP SIZE, D50.	ll r	7 5	300
DWATER	2. SLOPE DRAIN SHALL BE DESIGNED TO CONVEY PEAK RUNOFF FOR 2-YEAR 24-HOUR STORM AT A MINIMUM. FOR LONGER DURATION PROJECTS, LARGER MAY BE APPROPRIATE.	(uite 13 35
	3. SLOPE DRAIN DIMENSIONS SHALL BE CONSIDERED MINIMUM DIMENSIONS; CONTRACTOR MAY ELECT TO INSTALL LARGER FACILITIES.	`	N SI	ហេល
1	4. SLOPE DRAINS INDICATED SHALL BE INSTALLED PRIOR TO UPGRADIENT LAND-DISTURBING ACTIVITIES.			: Jefferson Avenue, wood, Colorado 80 (303) 692-0369
	5. CHECK HEADWATER DEPTHS FOR TEMPORARY AND PERMANENT SLOPE DRAINS. DETAILS SHOW MINIMUM COVER; INCREASE AS NECESSARY FOR DESIGN HEADWATER DEPTH.		20	n Av Iorac 92-0
	6. RIPRAP PAD SHALL BE PLACED AT SLOPE DRAIN OUTFALL.	(ס	
HEADWATER DEPTH RED OVERFLOW	7. ANCHOR PIPE BY COVERING WITH SOIL OR AN ALTERNATE SUITABLE ANCHOR MATERIAL.		.⊑ I	effe od, 03
DESIGN STORM)	SLOPE DRAIN MAINTENANCE NOTES			μον Ω
	1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.	Π		75 West Jeffer Lakewood, ((303)
ANCHOR	2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.			717
	3. WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.			
	4. INSPECT INLET AND OUTLET POINTS AFTER STORMS FOR CLOGGING OR EVIDENCE OF OVERTOPPING. BREACHES IN PIPE OR OTHER CONVEYANCE SHALL BE REPAIRED AS SOON AS PRACTICABLE IF OBSERVED.			
	5. INSPECT RIPRAP PAD AT OUTLET FOR SIGNS OF EROSION. IF SIGNS OF EROSION EXIST, ADDITIONAL ARMORING SHALL BE INSTALLED.			
ANE DRAIN	6. TEMPORARY SLOPE DRAINS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. WHEN SLOPE DRAINS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED, MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.			
(MIN) IMPERMEABLE BRANE				

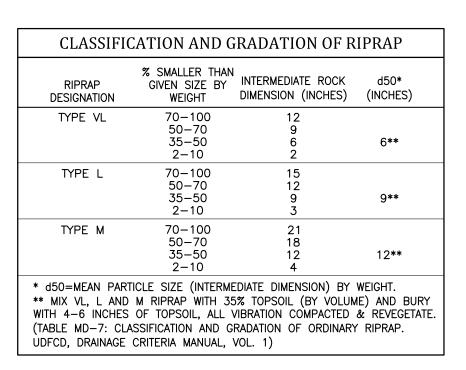
MEADOWBROOK CROSSING	EROSION CONTROL DETAILS	
Project N	o.: 16039	
Date:	July 25, 2017	
Design:	ELS	
Drawn:	ELS	
Check:	MWE	

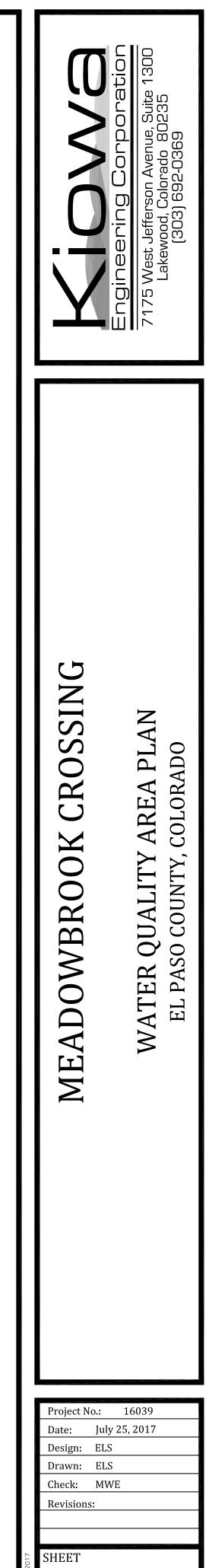
Revisions

SHEET

OF 35 SHEET



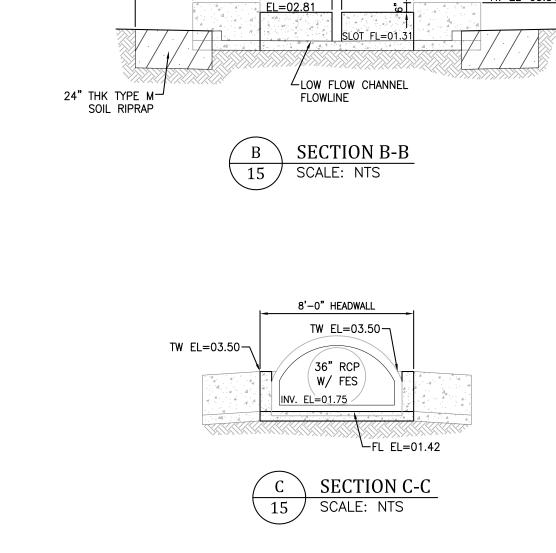




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OF 35 SHEET

3'-0"

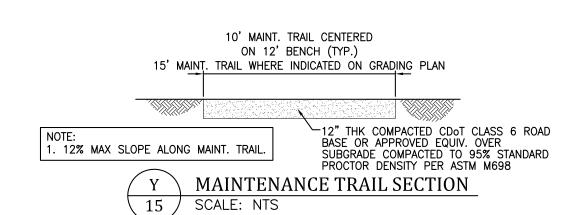


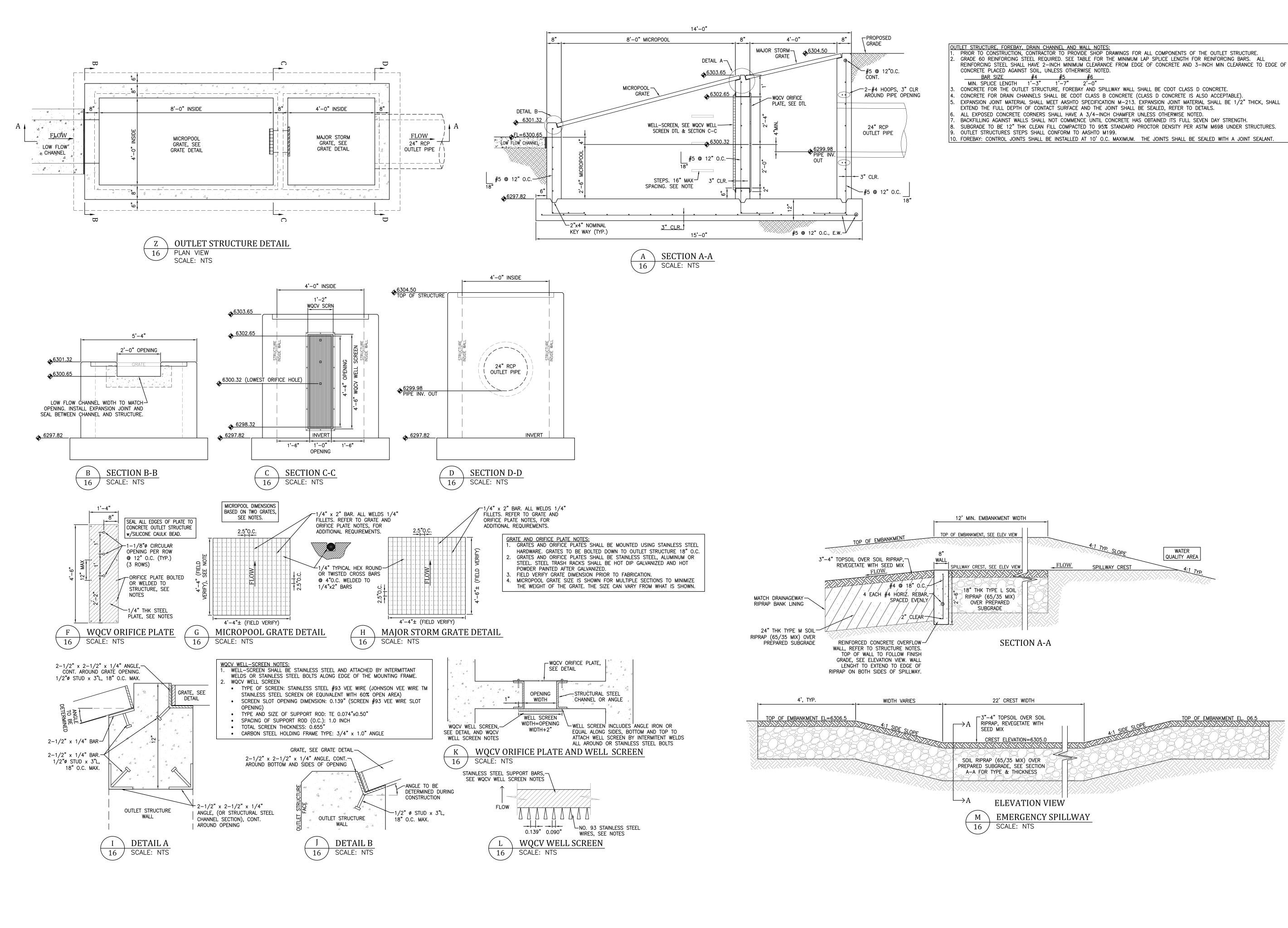
8'-0" SPILLWAY

6" SLOT

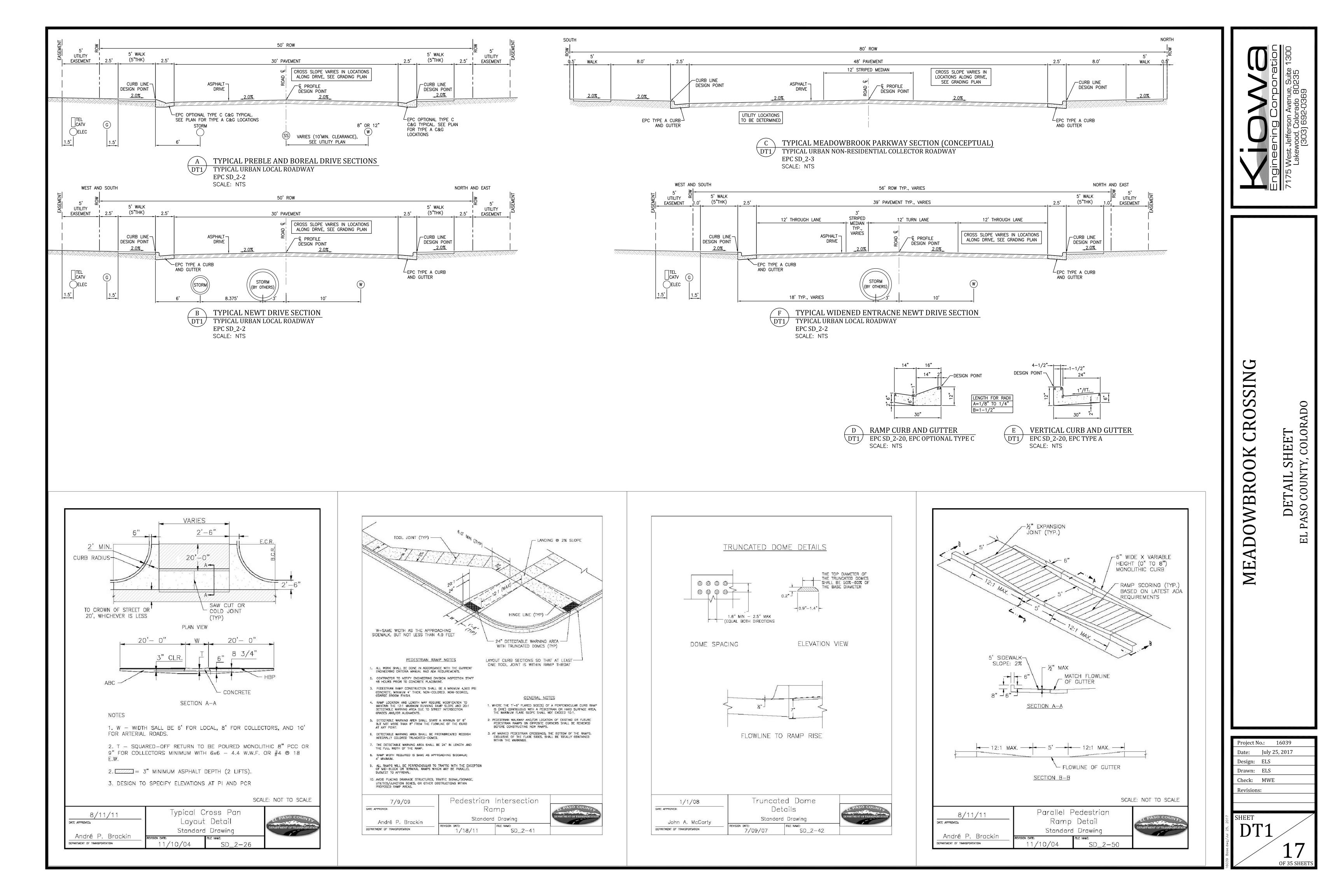
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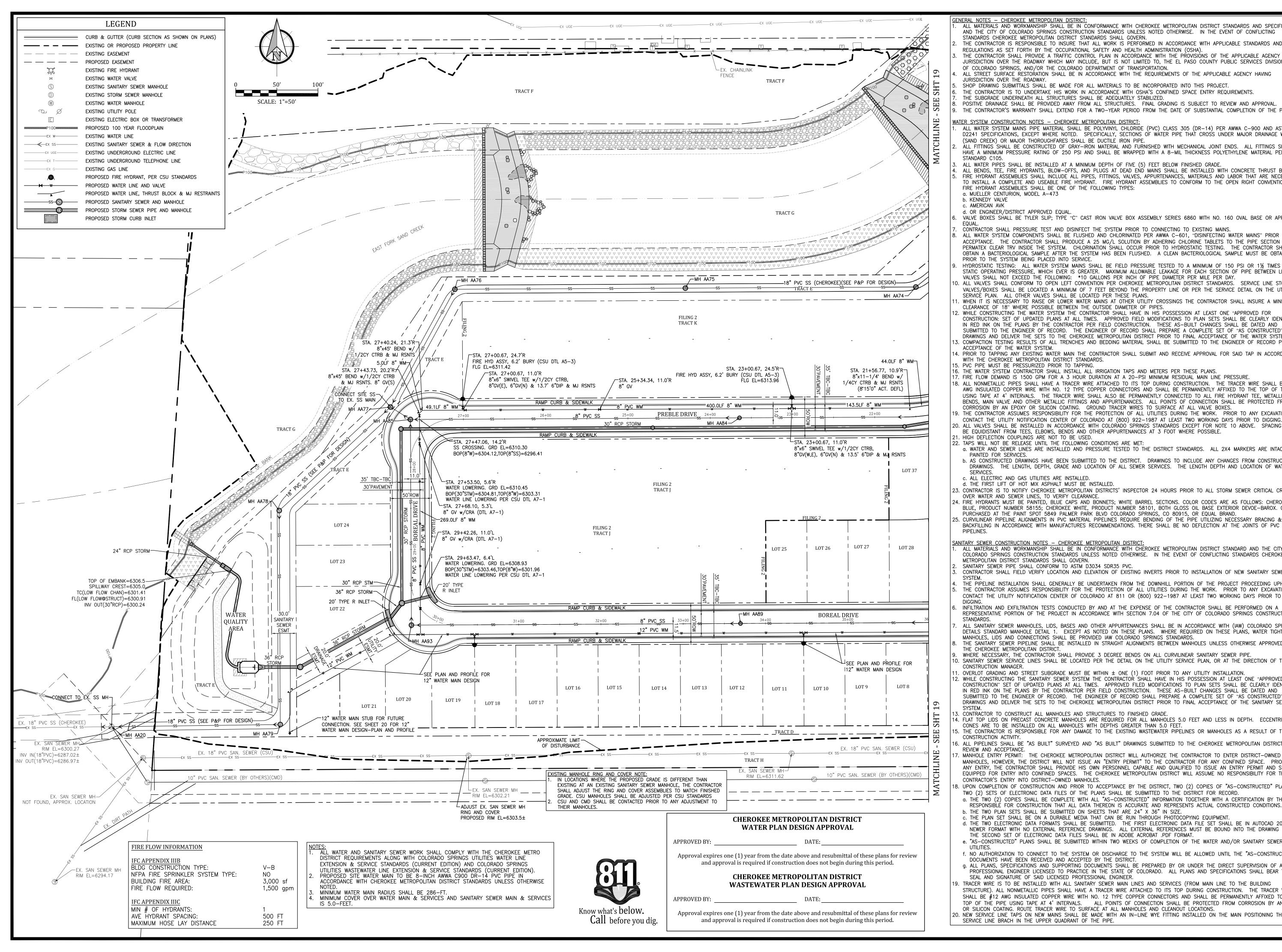
SPILL





	Engineering Corporation 7175 West Jefferson Avenue, Suite 1300 Lakewood, Colorado 80235 (303) 692-0369
	MEADOWBROOK CROSSING WATER QUALITY AREA DETAILS EL PASO COUNTY, COLORADO
	Project No.:16039Date:July 25, 2017Design:ELSDrawn:ELSCheck:MWERevisions:
339 Base.dwg∕Ju 25, 2017	SHEET 16 OF 35 SHEETS





<u>GENERAL NOTES – CHEROKEE METROPOLITAN DISTRICT:</u> ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH CHEROKEE METROPOLITAN DISTRICT STANDARDS AND SPECIFICATIONS AND THE CITY OF COLORADO SPRINGS CONSTRUCTION STANDARDS UNLESS NOTED OTHERWISE. IN THE EVENT OF CONFLICTING STANDARDS CHEROKEE METROPOLITAN DISTRICT STANDARDS SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE PROVISIONS OF THE APPLICABLE AGENCY HAVING JURISDICTION OVER THE ROADWAY WHICH MAY INCLUDE, BUT IS NOT LIMITED TO, THE EL PASO COUNTY PUBLIC SERVICES DIVISION, CITY

OF COLORADO SPRINGS, AND/OR THE COLORADO DEPARTMENT OF TRANSPORTATION. ALL STREET SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE AGENCY HAVING JURISDICTION OVER THE ROADWAY.

SHOP DRAWING SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THIS PROJECT. THE CONTRACTOR IS TO UNDERTAKE HIS WORK IN ACCORDANCE WITH OSHA'S CONFINED SPACE ENTRY REQUIREMENTS. THE SUBGRADE UNDERNEATH ALL STRUCTURES SHALL BE ADEQUATELY STABILIZED. POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES. FINAL GRADING IS SUBJECT TO REVIEW AND APPROVAL. THE CONTRACTOR'S WARRANTY SHALL EXTEND FOR A TWO-YEAR PERIOD FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.

WATER SYSTEM CONSTRUCTION NOTES - CHEROKEE METROPOLITAN DISTRICT ALL WATER SYSTEM MAINS PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 305 (DR-14) PER AWWA C-900 AND ASTM D2241 SPECIFICATIONS, EXCEPT WHERE NOTED. SPECIFICALLY, SECTIONS OF WATER PIPE THAT CROSS UNDER MAJOR DRAINAGE WAYS (SAND CREEK) OR MAJOR THOROUGHFARES SHALL BE DUCTILE IRON PIPE.

ALL FITTINGS SHALL BE CONSTRUCTED OF GRAY-IRON MATERIAL AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A MINIMUM PRESSURE RATING OF 250 PSI AND SHALL BE WRAPPED WITH A 8-MIL THICKNESS POLYETHYLENE MATERIAL PER AWWA

ALL WATER PIPES SHALL BE INSTALLED AT A MINIMUM DEPTH OF FIVE (5) FEET BELOW FINISHED GRADE. ALL BENDS, TEE, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD END MAINS SHALL BE INSTALLED WITH CONCRETE THRUST BLOCKS. FIRE HYDRANT ASSEMBLIES SHALL INCLUDE ALL PIPES, FITTINGS, VALVES, APPURTENANCES, MATERIALS AND LABOR THAT ARE NECESSARY TO INSTALL A COMPLETE AND USEABLE FIRE HYDRANT. FIRE HYDRANT ASSEMBLIES TO CONFORM TO THE OPEN RIGHT CONVENTION. FIRE HYDRANT ASSEMBLIES SHALL BE ONE OF THE FOLLOWING TYPES: a. MUELLER CENTURION, MODEL A-473

d. OR ENGINEER/DISTRICT APPROVED EQUAL.

VALVE BOXES SHALL BE TYLER SLIP; TYPE "C" CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE OR APPROVED CONTRACTOR SHALL PRESSURE TEST AND DISINFECT THE SYSTEM PRIOR TO CONNECTING TO EXISTING MAINS.

ALL WATER SYSTEM COMPONENTS SHALL BE FLUSHED AND CHLORINATED PER AWWA C-601, "DISINFECTING WATER MAINS" PRIOR TO ACCEPTANCE. THE CONTRACTOR SHALL PRODUCE A 25 MG/L SOLUTION BY ADHERING CHLORINE TABLETS TO THE PIPE SECTION WITH PERMATEX CLEAR TRV INSIDE THE SYSTEM. CHLORINATION SHALL OCCUR PRIOR TO HYDROSTATIC TESTING. THE CONTRACTOR SHALL OBTAIN A BACTERIOLOGICAL SAMPLE AFTER THE SYSTEM HAS BEEN FLUSHED. A CLEAN BACTERIOLOGICAL SAMPLE MUST BE OBTAINED PRIOR TO THE SYSTEM BEING PLACED INTO SERVICE.

HYDROSTATIC TESTING: ALL WATER SYSTEM MAINS SHALL BE FIELD PRESSURE TESTED TO A MINIMUM OF 150 PSI OR 11/2 TIMES THE STATIC OPERATING PRESSURE, WHICH EVER IS GREATER. MAXIMUM ALLOWABLE LEAKAGE FOR EACH SECTION OF PIPE BETWEEN LINE VALVES SHALL NOT EXCEED THE FOLLOWING: *10 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY. ALL VALVES SHALL CONFORM TO OPEN LEFT CONVENTION PER CHEROKEE METROPOLITAN DISTRICT STANDARDS. SERVICE LINE STOP

VALVES/BOXES SHALL BE LOCATED A MINIMUM OF 7 FEET BEYOND THE PROPERTY LINE OR PER THE SERVICE DETAIL ON THE UTILITY SERVICE PLAN. ALL OTHER VALVES SHALL BE LOCATED PER THESE PLANS. WHEN IT IS NECESSARY TO RAISE OR LOWER WATER MAINS AT OTHER UTILITY CROSSINGS THE CONTRACTOR SHALL INSURE A MINIMUM CLEARANCE OF 18" WHERE POSSIBLE BETWEEN THE OUTSIDE DIAMETER OF PIPES.

WHILE CONSTRUCTING THE WATER SYSTEM THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT LEAST ONE "APPROVED FOR CONSTRUCTION: SET OF UPDATED PLANS AT ALL TIMES. APPROVED FIELD MODIFICATIONS TO PLAN SETS SHALL BE CLEARLY IDENTIFIED IN RED INK ON THE PLANS BY THE CONTRACTOR PER FIELD CONSTRUCTION. THESE AS-BUILT CHANGES SHALL BE DATED AND SUBMITTED TO THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL PREPARE A COMPLETE SET OF "AS CONSTRUCTED"

DRAWINGS AND DELIVER THE SETS TO THE CHEROKEE METROPOLITAN DISTRICT PRIOR TO FINAL ACCEPTANCE OF THE WATER SYSTEM. 13. COMPACTION TESTING RESULTS OF ALL TRENCHES AND BEDDING MATERIAL SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR 1 ACCEPTANCE OF THE WATER SYSTEM. 14. PRIOR TO TAPPING ANY EXISTING WATER MAIN THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL FOR SAID TAP IN ACCORDANCE

WITH THE CHEROKEE METROPOLITAN DISTRICT STANDARDS. 15. PVC PIPE MUST BE PRESSURIZED PRIOR TO TAPPING.

16. THE WATER SYSTEM CONTRACTOR SHALL INSTALL ALL IRRIGATION TAPS AND METERS PER THESE PLANS 17. FIRE FLOW DEMAND IS 1500 GPM FOR A 3 HOUR DURATION AT A 20-PSI MINIMUM RESIDUAL MAIN LINE PRESSURE

18. ALL NONMETALLIC PIPES SHALL HAVE A TRACER WIRE ATTACHED TO ITS TOP DURING CONSTRUCTION. THE TRACER WIRE SHALL BE #12 AWG INSULATED COPPER WIRE WITH NO. 12 TYPE COPPER CONNECTORS AND SHALL BE PERMANENTLY AFFIXED TO THE TOP OF THE PIPE USING TAPE AT 4' INTERVALS. THE TRACER WIRE SHALL ALSO BE PERMANENTLY CONNECTED TO ALL FIRE HYDRANT TEE, METALLIC PIPE BENDS, MAIN VALVE AND OTHER METALLIC FITTINGS AND APPURTENANCES. ALL POINTS OF CONNECTION SHALL BE PROTECTED FROM CORROSION BY AN EPOXY OR SILICON COATING. GROUND TRACER WIRES TO SURFACE AT ALL VALVE BOXES. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. PRIOR TO ANY EXCAVATION,

CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT (800) 922-1987 AT LEAST TWO WORKING DAYS PRIOR TO DIGGING. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH COLORADO SPRINGS STANDARDS EXCEPT FOR NOTE 10 ABOVE. SPACING SHALL BE EQUIDISTANT FROM TEES, ELBOWS, BENDS AND OTHER APPURTENANCES AT 3 FOOT WHERE POSSIBLE. 1. HIGH DEFLECTION COUPLINGS ARE NOT TO BE USED.

22. TAPS WILL NOT BE RELEASE UNTIL THE FOLLOWING CONDITIONS ARE MET: a. WATER AND SEWER LINES ARE INSTALLED AND PRESSURE TESTED TO THE DISTRICT STANDARDS. ALL 2X4 MARKERS ARE INTACT AND PAINTED FOR SERVICES. b. AS CONSTRUCTED DRAWINGS HAVE BEEN SUBMITTED TO THE DISTRICT. DRAWINGS TO INCLUDE ANY CHANGES FROM CONSTRUCTION DRAWINGS. THE LENGTH, DEPTH, GRADE AND LOCATION OF ALL SEWER SERVICES. THE LENGTH DEPTH AND LOCATION OF WATER

c. ALL ELECTRIC AND GAS UTILITIES ARE INSTALLED.

d. THE FIRST LIFT OF HOT MIX ASPHALT MUST BE INSTALLED. 23. CONTRACTOR IS TO NOTIFY CHEROKEE METROPOLITAN DISTRICTS' INSPECTOR 24 HOURS PRIOR TO ALL STORM SEWER CRITICAL CROSSING OVER WATER AND SEWER LINES. TO VERIFY CLEARANG 24. FIRE HYDRANTS MUST BE PAINTED, BLUE CAPS AND BONNETS; WHITE BARREL SECTIONS. COLOR CODES ARE AS FOLLOWS: CHEROKEE BLUE, PRODUCT NUMBER 58155; CHEROKEE WHITE, PRODUCT NUMBER 58101, BOTH GLOSS OIL BASE EXTERIOR DEVOE-BAROX. CAN BE PURCHASED AT THE PAINT SPOT 5849 PALMER PARK BLVD COLORADO SPRINGS, CO 80915, OR EQUAL BRAND . CURVILINEAR PIPELINE ALIGNMENTS IN PVC MATERIAL PIPELINES REQUIRE BENDING OF THE PIPE UTILIZING NECESSARY BRACING &

SANITARY SEWER CONSTRUCTION NOTES - CHEROKEE METROPOLITAN DISTRICT

ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH CHEROKEE METROPOLITAN DISTRICT STANDARD AND THE CITY OF COLORADO SPRINGS CONSTRUCTION STANDARDS UNLESS NOTED OTHERWISE. IN THE EVENT OF CONFLICTING STANDARDS CHEROKEE METROPOLITAN DISTRICT STANDARDS SHALL GOVERN. SANITARY SEWER PIPE SHALL CONFORM TO ASTM D3034 SDR35 PVC.

CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF NEW SANITARY SEWER THE PIPELINE INSTALLATION SHALL GENERALLY BE UNDERTAKEN FROM THE DOWNHILL PORTION OF THE PROJECT PROCEEDING UPHILL THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. PRIOR TO ANY EXCAVATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 OR (800) 922-1987 AT LEAST TWO WORKING DAYS PRIOR TO

INFILTRATION AND EXFILTRATION TESTS CONDUCTED BY AND AT THE EXPENSE OF THE CONTRACTOR SHALL BE PERFORMED ON A REPRESENTATIVE PORTION OF THE PROJECT IN ACCORDANCE WITH SECTION 7.04 OF THE CITY OF COLORADO SPRINGS CONSTRUCTION

ALL SANITARY SEWER MANHOLES, LIDS, BASES AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH (IAW) COLORADO SPRINGS DETAILS STANDARD MANHOLE DETAIL 1. EXCEPT AS NOTED ON THESE PLANS. WHERE REQUIRED ON THESE PLANS, WATER TIGHT MANHOLES, LIDS AND CONNECTIONS SHALL BE PROVIDED IAW COLORADO SPRINGS STANDARDS.

THE SANITARY SEWER PIPELINE SHALL BE INSTALLED IN STRAIGHT ALIGNMENTS BETWEEN MANHOLES UNLESS OTHERWISE APPROVED BY THE CHEROKEE METROPOLITAN DISTRICT. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE 3 DEGREE BENDS ON ALL CURVILINEAR SANITARY SEWER PIPE. SANITARY SEWER SERVICE LINES SHALL BE LOCATED PER THE DETAIL ON THE UTILITY SERVICE PLAN, OR AT THE DIRECTION OF THE

OVERLOT GRADING AND STREET SUBGRADE MUST BE WITHIN ± ONE (1) FOOT PRIOR TO ANY UTILITY INSTALLATION. WHILE CONSTRUCTING THE SANITARY SEWER SYSTEM THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT LEAST ONE "APPROVED FOR CONSTRUCTION" SET OF UPDATED PLANS AT ALL TIMES. APPROVED FILED MODIFICATIONS TO PLAN SETS SHALL BE CLEARLY IDENTIFIED IN RED INK ON THE PLANS BY THE CONTRACTOR PER FIELD CONSTRUCTION. THESE AS-BUILT CHANGES SHALL BE DATED AND SUBMITTED TO THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL PREPARE A COMPLETE SET OF "AS CONSTRUCTED" DRAWINGS AND DELIVER THE SETS TO THE CHEROKEE METROPOLITAN DISTRICT PRIOR TO FINAL ACCEPTANCE OF THE SANITARY SEWER

CONTRACTOR TO CONSTRUCT ALL MANHOLES AND STRUCTURES TO FINISHED GRADE. FLAT TOP LIDS ON PRECAST CONCRETE MANHOLES ARE REQUIRED FOR ALL MANHOLES 5.0 FEET AND LESS IN DEPTH. ECCENTRIC CONES ARE TO BE INSTALLED ON ALL MANHOLES WITH DEPTHS GREATER THAN 5.0 FEET. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING WASTEWATER PIPELINES OR MANHOLES AS A RESULT OF THEIR

ALL PIPELINES SHALL BE "AS BUILT" SURVEYED AND "AS BUILT" DRAWINGS SUBMITTED TO THE CHEROKEE METROPOLITAN DISTRICT FOR REVIEW AND ACCEPTANCE. MANHOLE ENTRY PERMIT: THE CHEROKEE METROPOLITAN DISTRICT WILL AUTHORIZE THE CONTRACTOR TO ENTER DISTRICT-OWNED

MANHOLES, HOWEVER, THE DISTRICT WILL NOT ISSUE AN "ENTRY PERMIT" TO THE CONTRACTOR FOR ANY CONFINED SPACE. PRIOR TO ANY ENTRY. THE CONTRACTOR SHALL PROVIDE HIS OWN PERSONNEL CAPABLE AND QUALIFIED TO ISSUE AN ENTRY PERMIT AND SHALL BE EQUIPPED FOR ENTRY INTO CONFINED SPACES. THE CHEROKEE METROPOLITAN DISTRICT WILL ASSUME NO RESPONSIBILITY FOR THE CONTRACTOR'S ENTRY INTO DISTRICT-OWNED MANHOLES.

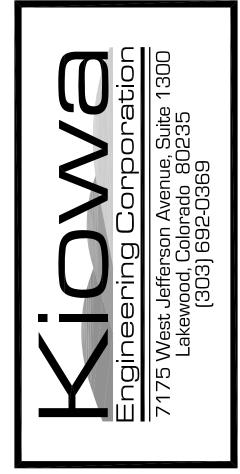
UPON COMPLETION OF CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE DISTRICT, TWO (2) COPIES OF "AS-CONSTRUCTED" PLANS AND TWO (2) SETS OF ELECTRONIC DATA FILES OF THE PLANS SHALL BE SUBMITTED TO THE DISTRICT FOR RECORD. a. THE TWO (2) COPIES SHALL BE COMPLETE WITH ALL "AS-CONSTRUCTED" INFORMATION TOGETHER WITH A CERTIFICATION BY THE PARTY RESPONSIBLE FOR CONSTRUCTION THAT ALL DATA THEREON IS ACCURATE AND REPRESENTS ACTUAL CONSTRUCTED CONDITIONS. b. THE TWO PLAN SETS SHALL BE SUBMITTED ON SHEETS THAT ARE 24" X 36" IN SIZE. c. THE PLAN SET SHALL BE ON A DURABLE MEDIA THAT CAN BE RUN THROUGH PHOTOCOPYING EQUIPMENT.

d. THE TWO ELECTRONIC DATA FORMATS SHALL BE SUBMITTED. THE FIRST ELECTRONIC DATA FILE SET SHALL BE IN AUTOCAD 2006 OR NEWER FORMAT WITH NO EXTERNAL REFERENCE DRAWINGS. ALL EXTERNAL REFERENCES MUST BE BOUND INTO THE DRAWING SET. THE SECOND SET OF ELECTRONIC DATA FILES SHALL BE IN ADOBE ACROBAT .PDF FORMAT. e. "AS-CONSTRUCTED" PLANS SHALL BE SUBMITTED WITHIN TWO WEEKS OF COMPLETION OF THE WATER AND/OR SANITARY SEWER

f. NO AUTHORIZATION TO CONNECT TO THE SYSTEM OR DISCHARGE TO THE SYSTEM WILL BE ALLOWED UNTIL THE "AS-CONSTRUCTED" DOCUMENTS HAVE BEEN RECEIVED AND ACCEPTED BY THE DISTRICT. g. ALL PLANS, SPECIFICATIONS AND SUPPORTING DOCUMENTS SHALL BE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A

PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF COLORADO. ALL PLANS AND SPECIFICATIONS SHALL BEAR THE SEAL AND SIGNATURE OF SAID LICENSED PROFESSIONAL ENGINEER. TRACER WIRE IS TO BE INSTALLED WITH ALL SANITARY SEWER MAIN LINES AND SERVICES (FROM MAIN LINE TO THE BUILDING STRUCTURE). ALL NONMETALLIC PIPES SHALL HAVE A TRACER WIRE ATTACHED TO ITS TOP DURING CONSTRUCTION. THE TRACER WIRE SHALL BE #12 AWG INSULATED COPPER WIRE WITH NO. 12 TYPE COPPER CONNECTORS AND SHALL BE PERMANENTLY AFFIXED TO THE

TOP OF THE PIPE USING TAPE AT 4' INTERVALS. ALL POINTS OF CONNECTION SHALL BE PROTECTED FROM CORROSION BY AN EPOXY OR SILICON COATING. ROUTE TRACER WIRE TO SURFACE AT ALL MANHOLES AND CLEANOUT LOCATIONS. NEW SERVICE LINE TAPS ON NEW MAINS SHALL BE MADE WITH AN IN-LINE WYE FITTING INSTALLED ON THE MAIN POSITIONING THE SERVICE LINE BRACH IN THE UPPER QUADRANT OF THE PIPE.



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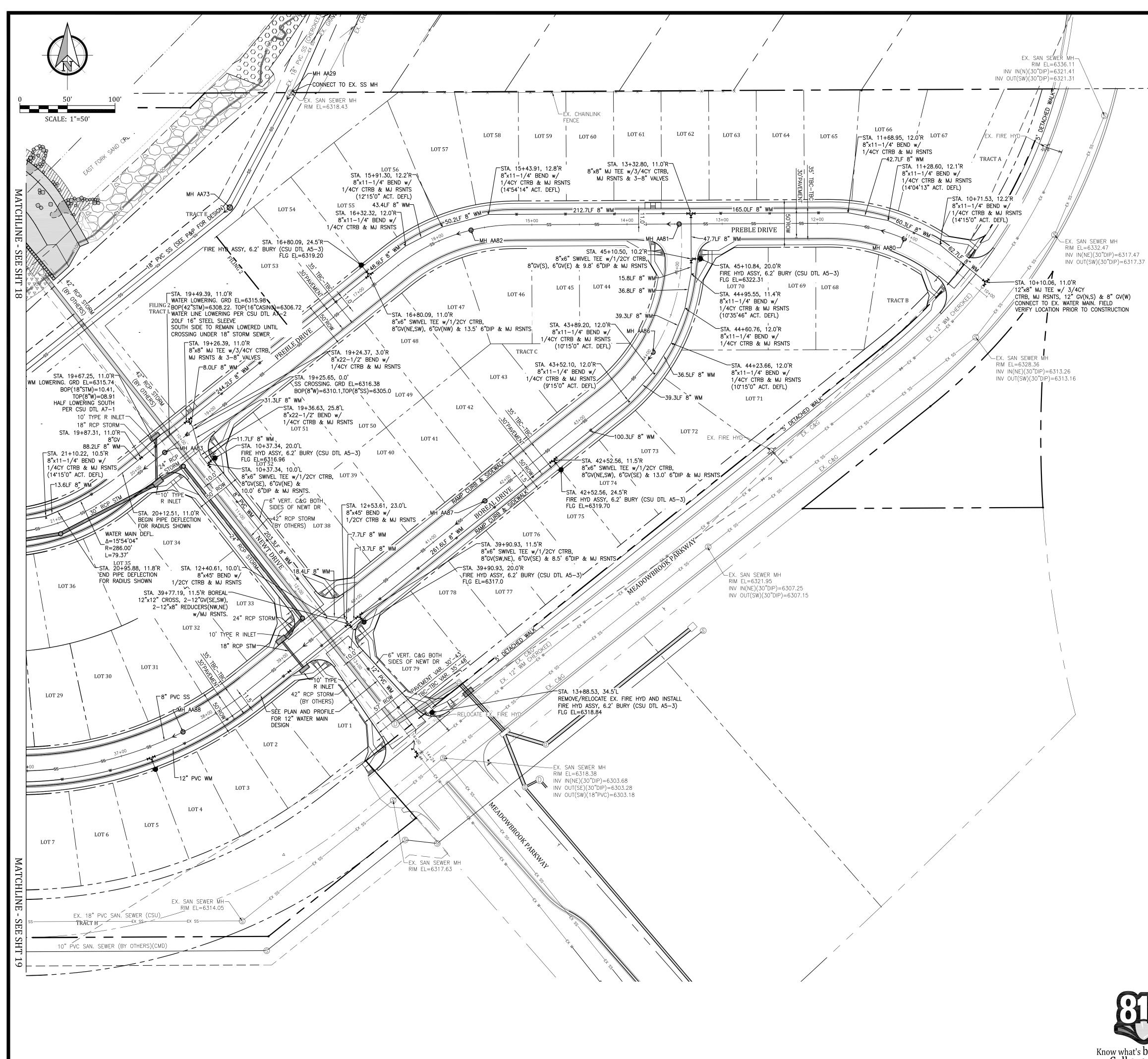
Project No.: 16039 Date: July 25, 2017 Design: ELS Drawn: ELS Check: MWE

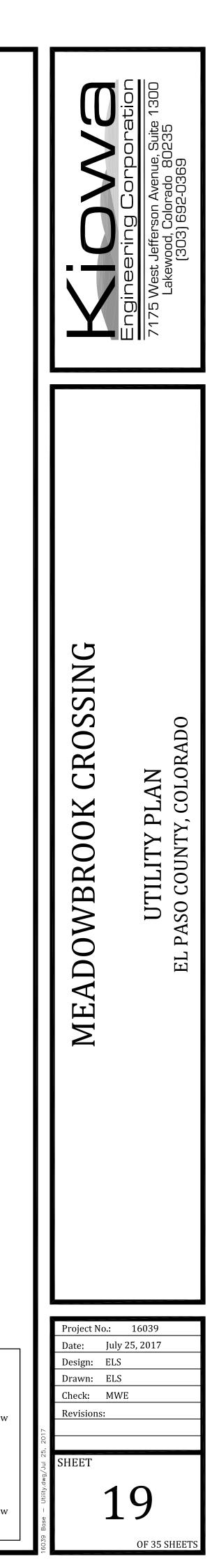
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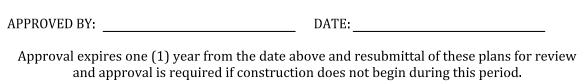




CHEROKEE METROPOLITAN DISTRIC
WATER PLAN DESIGN APPROVAL

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DATE:

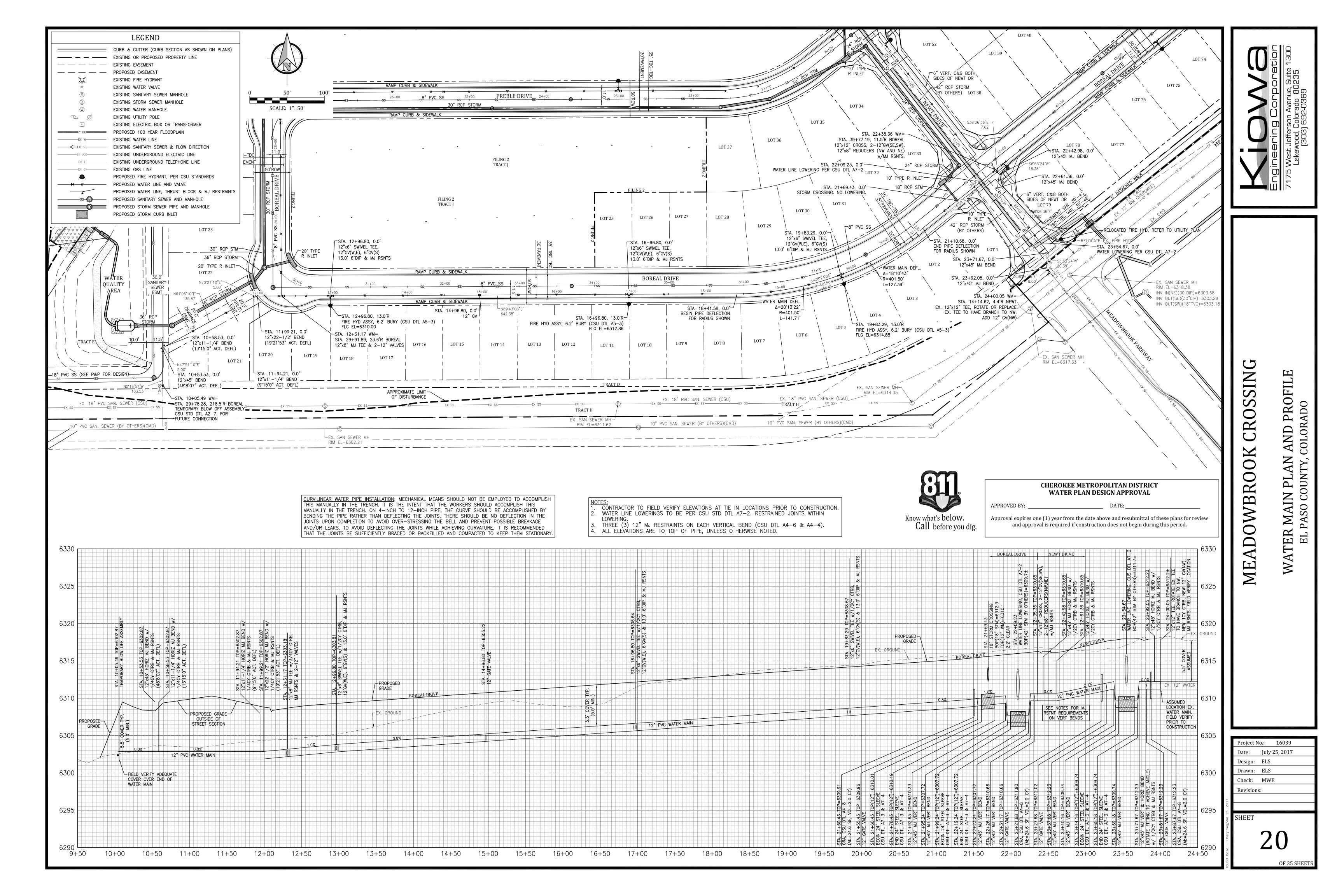


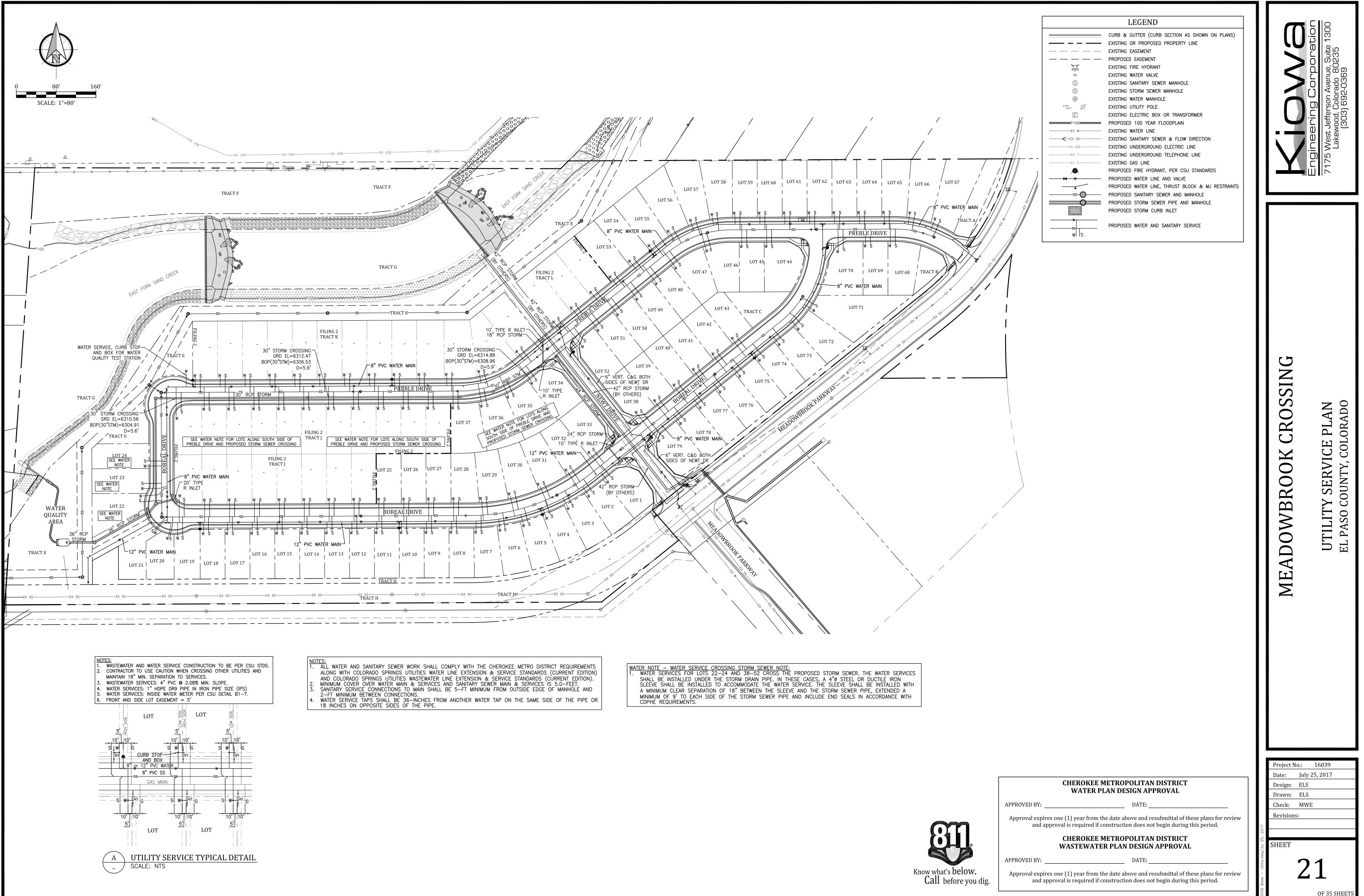
APPROVED BY:

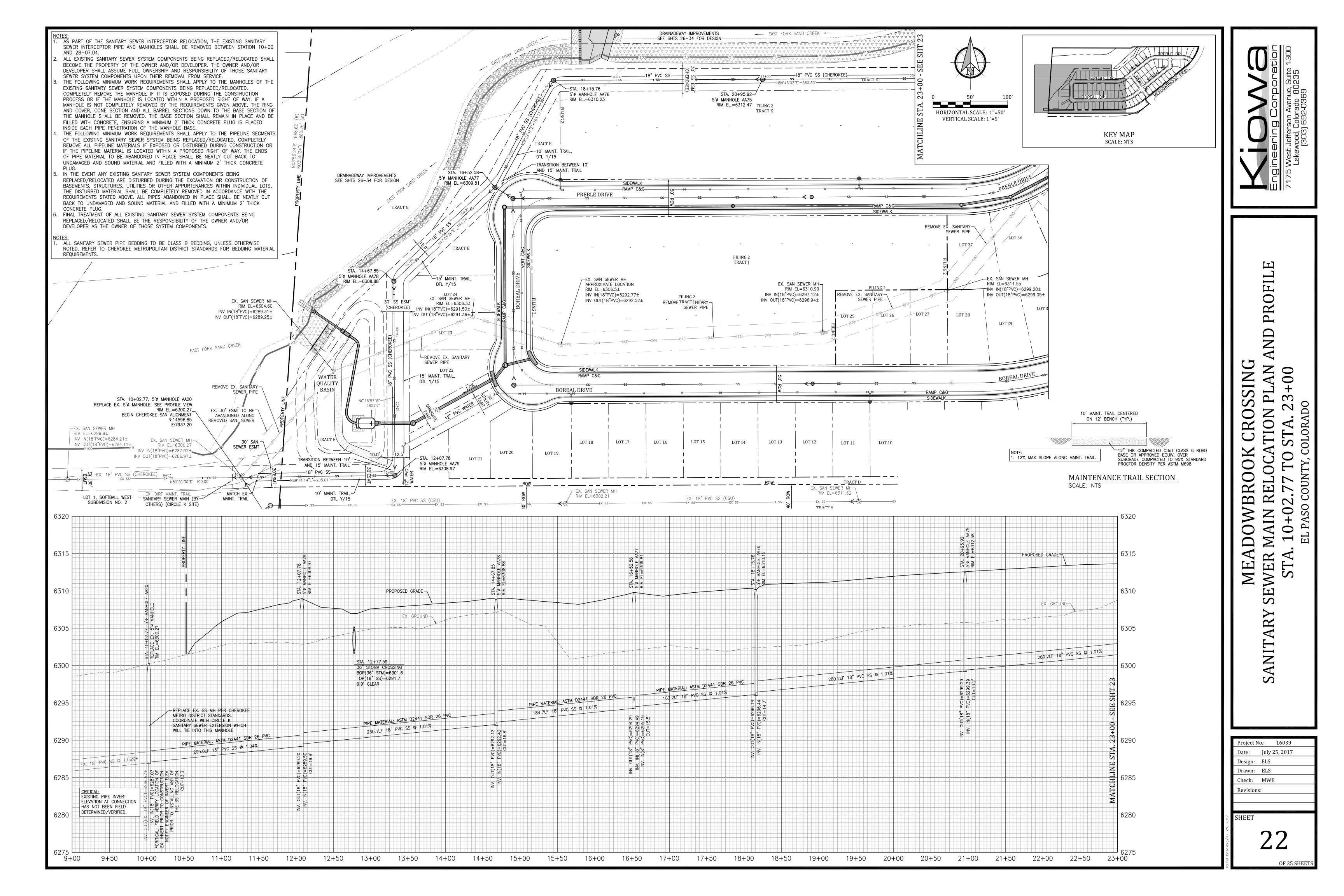
CHEROKEE METROPOLITAN DISTRICT WASTEWATER PLAN DESIGN APPROVAL

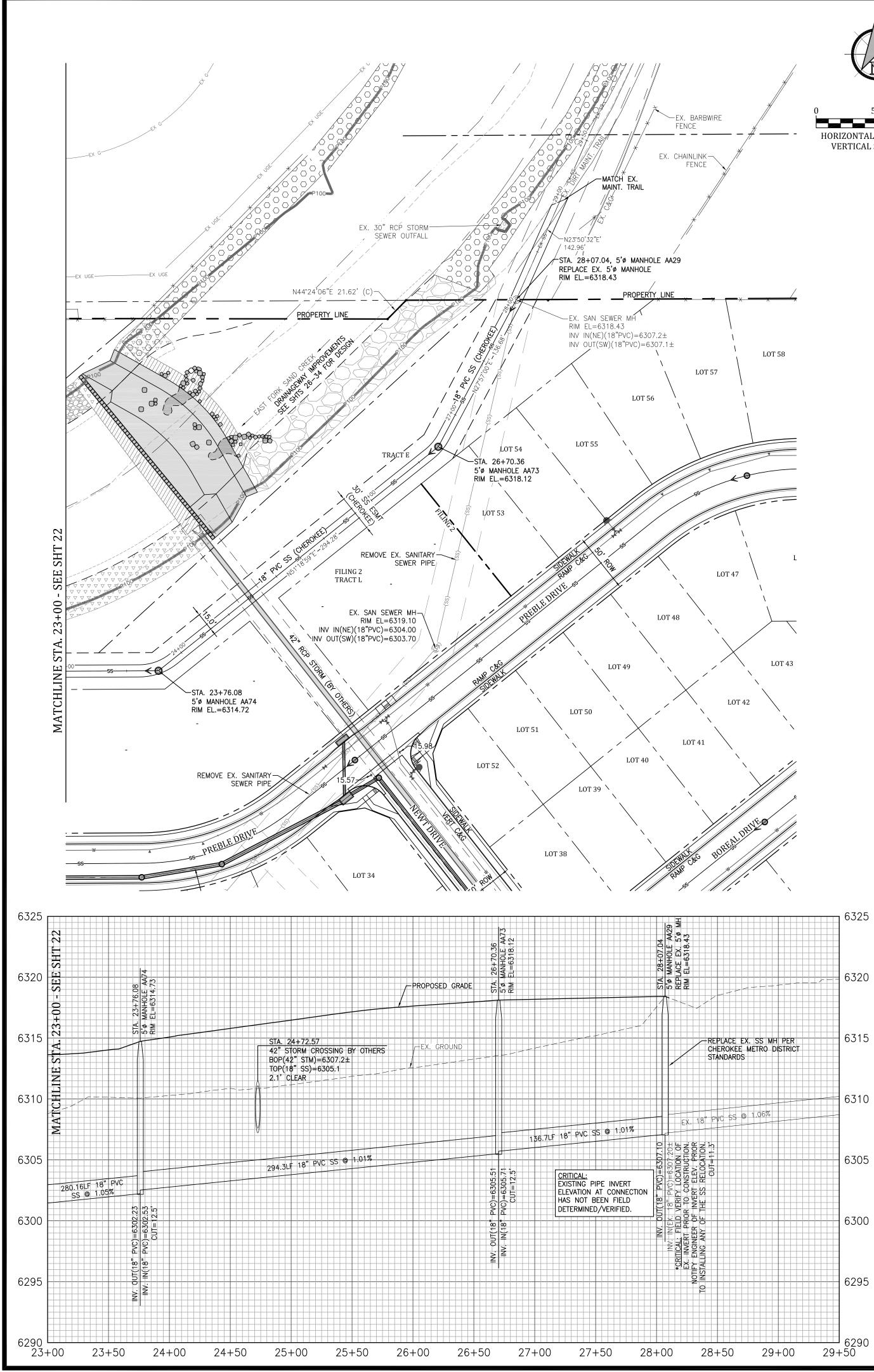


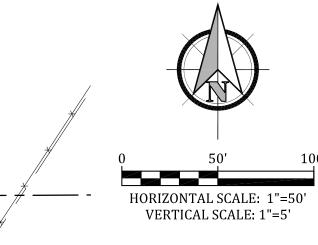
Approval expires one (1) year from the date above and resubmittal of these plans for review and approval is required if construction does not begin during this period.



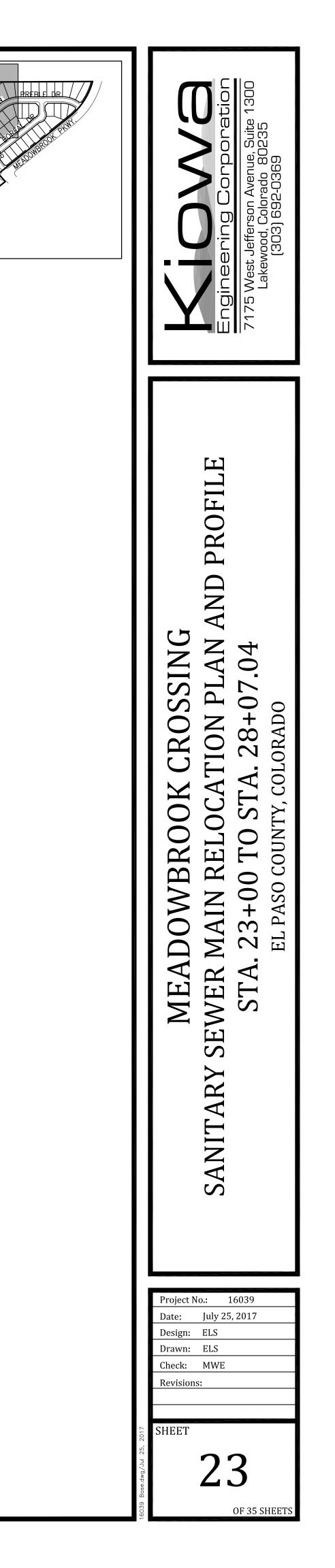






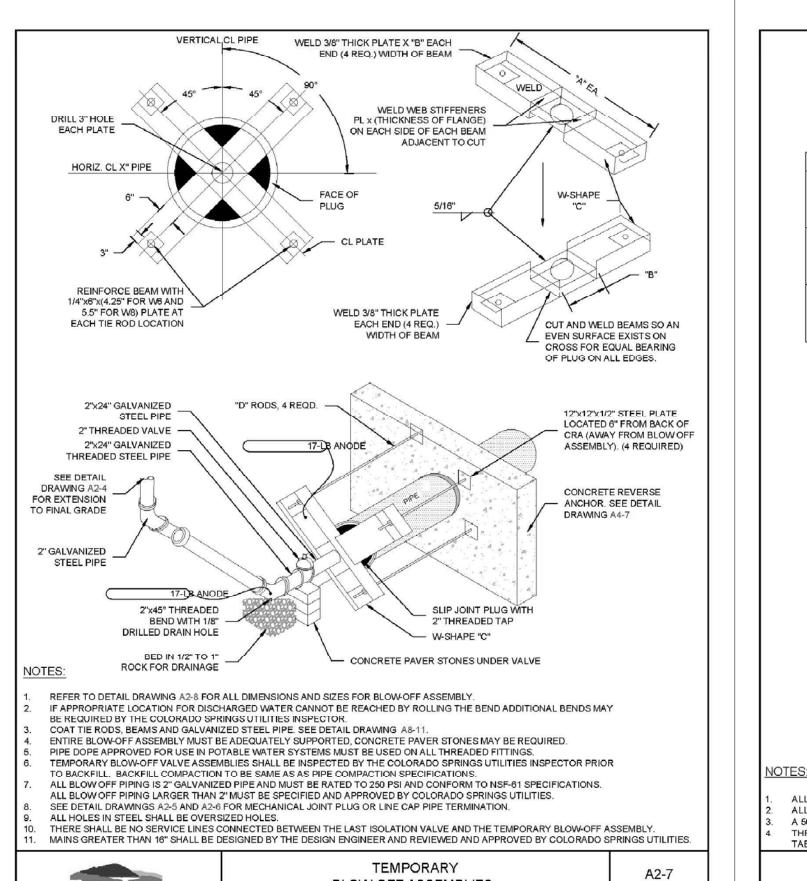


- NOTES: 1. AS PART OF THE SANITARY SEWER INTERCEPTOR RELOCATION, THE EXISTING SANITARY SEWER INTERCEPTOR PIPE AND MANHOLES SHALL BE REMOVED BETWEEN STATION 10+00 AND 28+07.04. ALL EXISTING SANITARY SEWER SYSTEM COMPONENTS BEING REPLACED/RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER
- AND/OR DEVELOPER. THE OWNER AND/OR DEVELOPER SHALL ASSUME FULL OWNERSHIP AND RESPONSIBILITY OF THOSE SANITARY SEWER SYSTEM COMPONENTS UPON THEIR REMOVAL FROM SERVICE. THE FOLLOWING MINIMUM WORK REQUIREMENTS SHALL APPLY TO THE MANHOLES OF THE EXISTING SANITARY SEWER SYSTEM
- COMPONENTS BEING REPLACED/RELOCATED. COMPLETELY REMOVE THE MANHOLE IF IT IS EXPOSED DURING THE CONSTRUCTION PROCESS OR IF THE MANHOLE IS LOCATED WITHIN A PROPOSED RIGHT OF WAY. IF A MANHOLE IS NOT COMPLETELY REMOVED BY THE REQUIREMENTS GIVEN ABOVE, THE RING AND COVER, CONE SECTION AND ALL BARREL SECTIONS DOWN TO THE BASE SECTION OF THE MANHOLE SHALL BE REMOVED. THE BASE SECTION SHALL REMAIN IN PLACE AND BE FILLED WITH CONCRETE, ENSURING A MINIMUM 2' THICK CONCRETE PLUG IS PLACED INSIDE EACH PIPE PENETRATION OF THE MANHOLE BASE.
- THE FOLLOWING MINIMUM WORK REQUIREMENTS SHALL APPLY TO THE PIPELINE SEGMENTS OF THE EXISTING SANITARY SEWER SYSTEM BEING REPLACED/RELOCATED. COMPLETELY REMOVE ALL PIPELINE MATERIALS IF EXPOSED OR DISTURBED DURING CONSTRUCTION OR IF THE PIPELINE MATERIAL IS LOCATED WITHIN A PROPOSED RIGHT OF WAY. THE ENDS OF PIPE MATERIAL TO BE ABANDONED IN PLACE SHALL BE NEATLY CUT BACK TO UNDAMAGED AND SOUND MATERIAL AND FILLED WITH A MINIMUM 2' THICK CONCRETE PLUG.
- IN THE EVENT ANY EXISTING SANITARY SEWER SYSTEM COMPONENTS BEING REPLACED/RELOCATED ARE DISTURBED DURING THE EXCAVATION OR CONSTRUCTION OF BASEMENTS, STRUCTURES, UTILITIES OR OTHER APPURTENANCES WITHIN INDIVIDUAL LOTS, THE DISTURBED MATERIAL SHALL BE COMPLETELY REMOVED IN ACCORDANCE WITH THE REQUIREMENTS STATED ABOVE. ALL PIPES ABANDONED IN PLACE SHALL BE NEATLY CUT BACK TO UNDAMAGED AND SOUND MATERIAL AND FILLED WITH A MINIMUM 2' THICK CONCRETE PLUG.
- FINAL TREATMENT OF ALL EXISTING SANITARY SEWER SYSTEM COMPONENTS BEING REPLACED/RELOCATED SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR DEVELOPER AS THE OWNER OF THOSE SYSTEM COMPONENTS.



KEY MAP

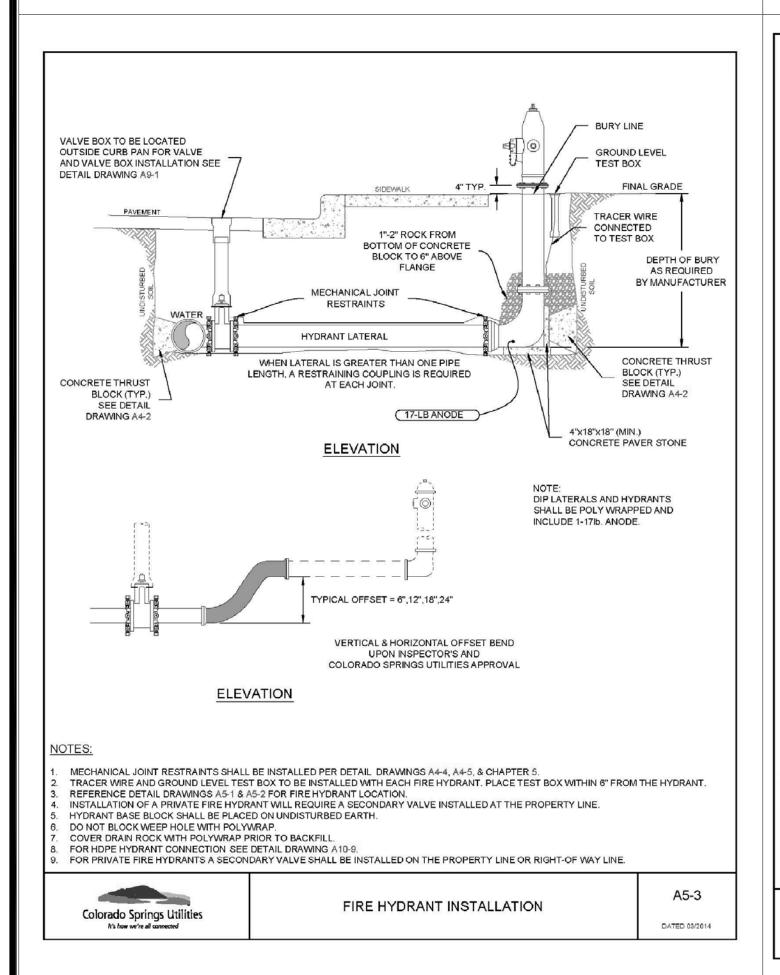
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BLOW-OFF ASSEMBLIES-

12" AND GREATER MAINS WITH SJ PLUGS

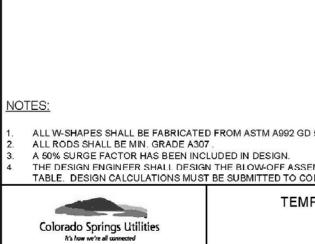
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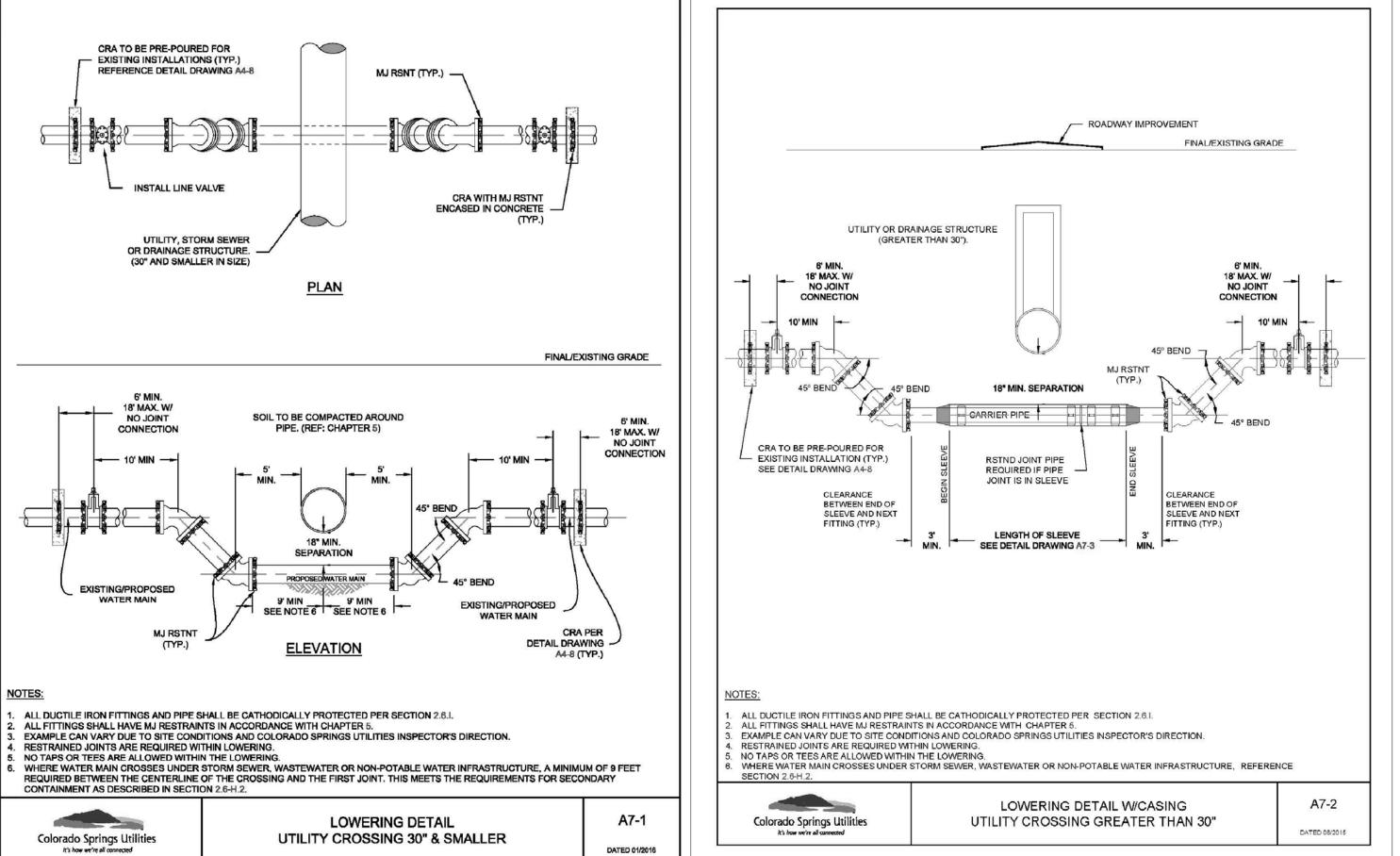


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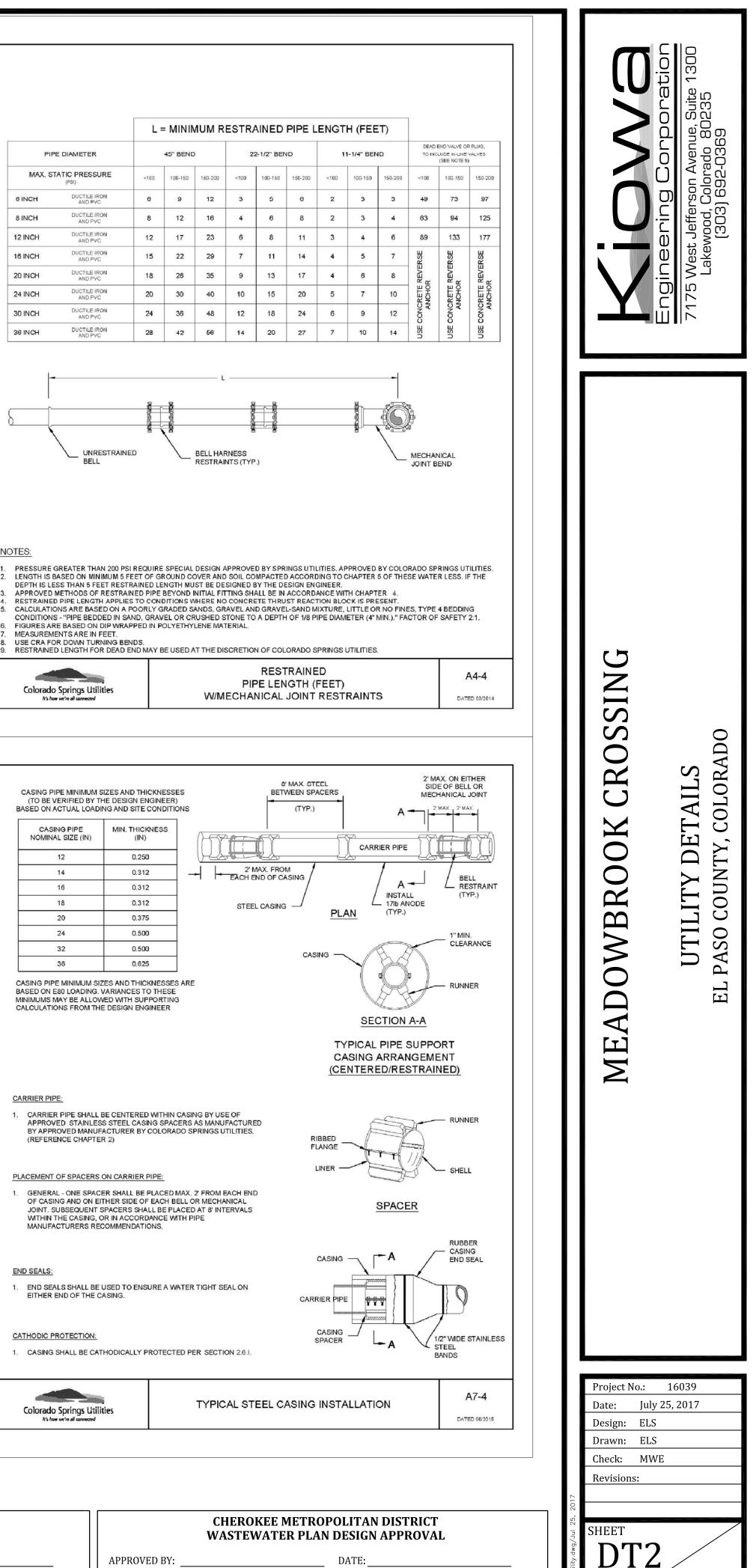
TEMPORARY BLOW-OFF ASSEMBLY SIZING FOR 12" AND GREATER PIPE

IS FROM	DETAIL DRAWING	n2-1		
"B" (IN)	"C" (W-SHAPE)	"D" ROD SIZE (IN)	BLOW-OFF PIPE SIZE (IN)	NUMBER OF RODS REQUIRED
6"	W6 x 16	5/8	2	4
-1/4"	W6 x 20	3/4	2	
-1/4"	W6 x 20	7/8	2	
8"	W8 x 28	1	2	
6"	W6 x 20	7/8	2	4
8"	W8 x 28	1	2	
8"	W8 x 35	1-1/8	2	
-1/8"	W8 x 40	1-1/4	2	

D 50.	
EMBLY FOR SIZES AND PRESSURES GREATER THAN THOSE SHOLORADO SPRINGS UTILITIES FOR REVIEW.	IOWN IN THE
IPORARY BLOW-OFF ASSEMBLY DIMENSION DATA FOR	A2-8
12" OR GREATER PIPE	DATED 03/2014

	DECON DIVIEN	ISIONS and VO	LOIVIES -		- 200 µsi				
(in.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (ft ²)	MINIMUM A _x (ft)	MINIMUM A _v (ft)	MINIMUM C _x (ft)	MINIMUM C _y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd ³)	
4	11.25° BEND	1.00	1.00	1.00	0.25	0.33	2.00	0.25	
4	22.5° BEND	2.00	1.41	1.41	0.21	0.33	2.00	0.25	
4	45° BEND	3.50	1.87	1.87	0.42	0.33	2.00	0.25	
4	TEE & DEAD	4.75	2.18	2.18	0.67	0.33	2.00	0.25	
6	END 11.25° BEND	2.00	1.41	1.41	0.25	0.50	2.00	0.25	
6	22.5° BEND	3.75	1.94	1.94	0.38	0.60	2.00	0.25	
6	45° BEND	7.25	2.69	2.69	0.58	0.50	2.00	0.25	10
6	TEE & DEAD END	9.50	3.09	3.08	0.83	0.50	2.00	0.50	
8	11.25° BEND	3.25	1.80	1.80	0.34	0.67	2.00	0.25	A B
8	22.5° BEND	6.50	2.55	2.55	0.48	0.67	2.00	0.25	A _X B. C
8	45° BEND	12.50	3.57	3.50	0.67	0.67	2.00	0.50	
8	TEE & DEAD END	16.25	4.64	3.50	1.08	0.67	2.00	0.75	
RUST		ISIONS and VO	ILIMES -	PVC (May	imum Stat	ic Pressur	e = 170 ps	D.	
		MINIMUM				a riessul	p		
AIN SIZE (in.)	TYPE OF FITTING	BEARING SURFACE AREA (ft ²)	MINIMUM A _x (ft)	MINIMUM A _v (ft)	MINIMUM C _x (ft)	MINIMUM C _y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd ³)	
12	11.25° BEND	4 75	2.18	2.18	0.43	1.00	2.00	0.25	
12	22.5° BEND	9.25	3.04	3.04	0.64	1.00	2.00	0.50	
12	45° BEND	18.00	4.92	3.66	1.00	1.00	2.00	0.75	
12	TEE & DEAD END	23.50	6.42	3.66	1.46	1.00	2,48	1.00	
16	11.25° BEND	9.00	2.93	2.93	0.44	1.33	2.00	0.50	
16	22.5° BEND	16.00	4.27	3.75	0.66	1.33	2.00	0.75	
16	45° BEND	31.00	8.27	3.75	1.00	1.33	3.64	1.75	and the second s
16	TEE & DEAD END	40.50	10.80	3.75	1.92	1.33	4.44	3.00	
RUST		ISIONS and VO	UMES -	DIP (Maxi	num Statio	: Pressure	= 250 nsi		
AIN SIZE (in.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (ft ²)	MINIMUM A _x (ft)	MINIMUM A _y (ft)		MINIMUM C _y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd ³)	
12	11.25* BEND	6.75	2.60	2.60	0.43	1.00	2.00	0.50	
12	22.5° BEND	13.50	3.69	3.66	0.64	1.00	2.00	0.50	
12	45° BEND	26.25	7.17	3.66	1.00	1.00	3.09	1.50	
	TEE & DEAD								
12	END	34.25	9.36	3.66	1.46	1.00	3.95	2.25	
16	11.25° BEND	11.75	3.43	3.43	0.44	1.33	2.00	0.50	
16	22.5° BEND	23.25	6.20	3.75	0.66	1.33	2.77	1.00	
16	45° BEND	45.50	12.13	3.75	1.00	1.33	5.57	4.00	
16	TEE & DEAD	59.50	15.87	3.75	1.82	1.33	6.98	6.50	
1.5 AND FEET. R THE DE THE DE DUCTILI REVIEW THE MIN	AN ALLOWABL EFERENCE AW SIGN ENGINEEI SIGN ENGINEEI E-IRON PIPE AN /. NIMUM BEARING	E SOIL BEARING WA M-23 AND M- R IS RESPONSIB R SHALL PROVID ID FITTINGS. SIT	CAPACITY 41. LE FOR VE DE A SITE S E SPECIFIC A AND APP	OF 1500 F RIFYING A PECIFIC D DESIGNS	OUNDS PE SSUMPTIO ESIGN IN A INCLUDIN E VOLUME (R SQUARE NS BASED CCORDAN G GEOTEC	ON ACTUA CE WITH AV	ARING SURFACE L SITE CONDITIC WWA M-23, PVC FORMATION SHA	D POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE INS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS PIPE - DESIGN AND INSTALLATION AND AWWA M-41, LL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOF THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST
THE API IS ROUT THESE BOTTOM A SITE S INCH. T	PROXIMATE VO NDED UP TO TH CHARTS MAY O M OF THE BLOO SPECIFIC DESIGNEN HE DESIGNEN 50 POUNDS PEI	LUMES SHOWN IE NEAREST 0.25 DNLY BE USED IF K. THE MINIMUM SN SHALL BE RE	ARE BASE CUBIC YAI THE BLOO DIMENSIO QUIRED FO OPTION O	D ON THE RDS. IK HEIGHT DNS SHOW DR PIPES L DF PROVIDI	MINIMUM B (Ay) IS EQU N ARE BAS ARGER TH NG A SITE	JAL TO OR ED ON A P AN 16 INCH SPECIFIC I	LESS THAM IPE DEPTH IES OR MA DESIGN FO	NONE HALF THE OF 5 FEET. SEE X STATIC PIPE P	IMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME TOTAL DEPTH (HI) FROM THE FINISHED GRADE TO THE DETAIL DRAWING A4-3. RESSURES GREATER THAN 250 POUNDS PER SQUARE R THAN 16 INCHES OR MAX STATIC PRESSURES LESS

	CHEROKEE METROPOLITAN DISTRICT WATER PLAN DESIGN APPROVAL
APPROVED BY:	DATE:
	res one (1) year from the date above and resubmittal of these plans for re- pproval is required if construction does not begin during this period.



Approval expires one (1) year from the date above and resubmittal of these plans for review and approval is required if construction does not begin during this period.

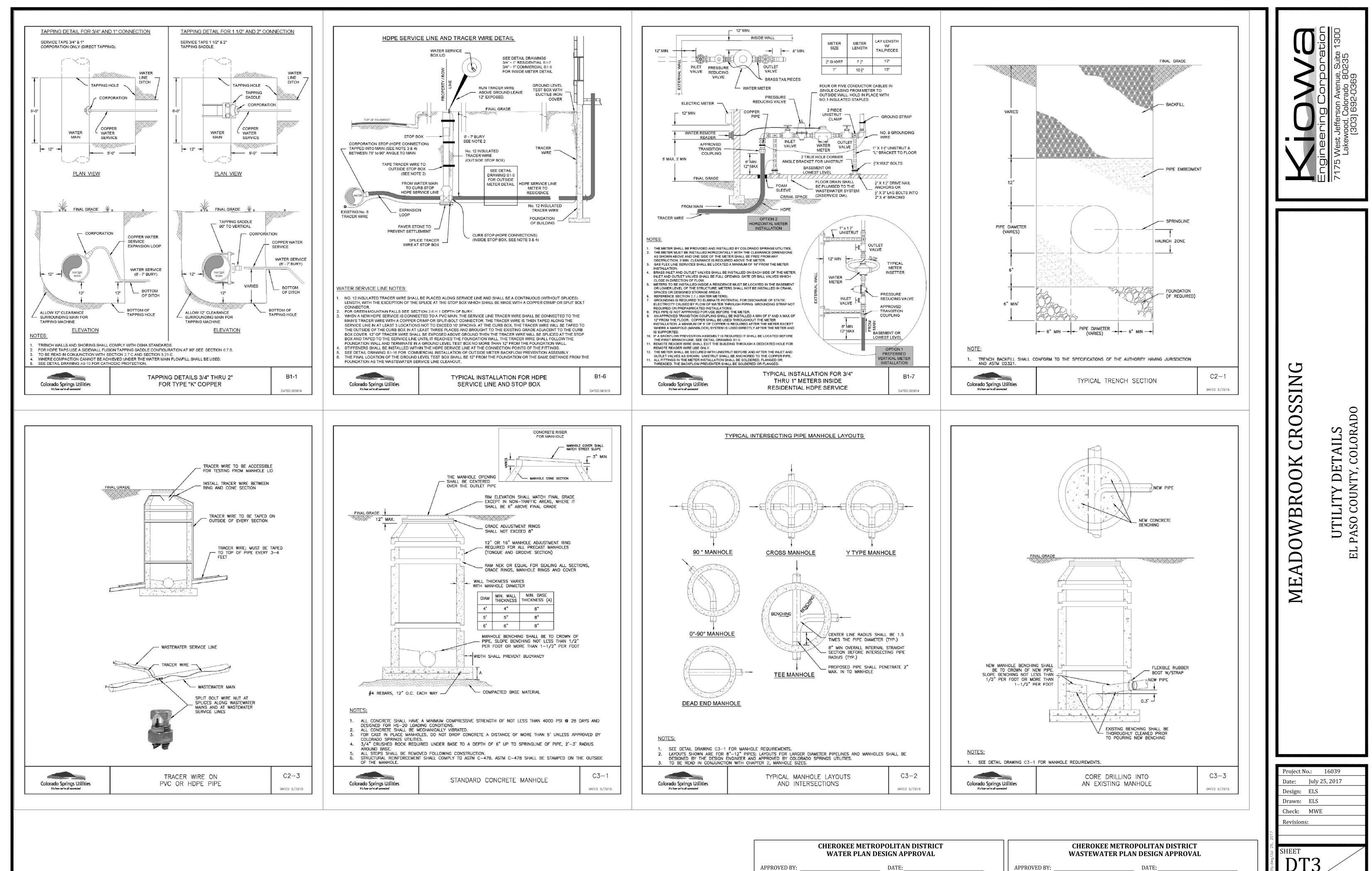
DATE:

24

OF 35 SHEET

plans for review period.

APPROVED BY:

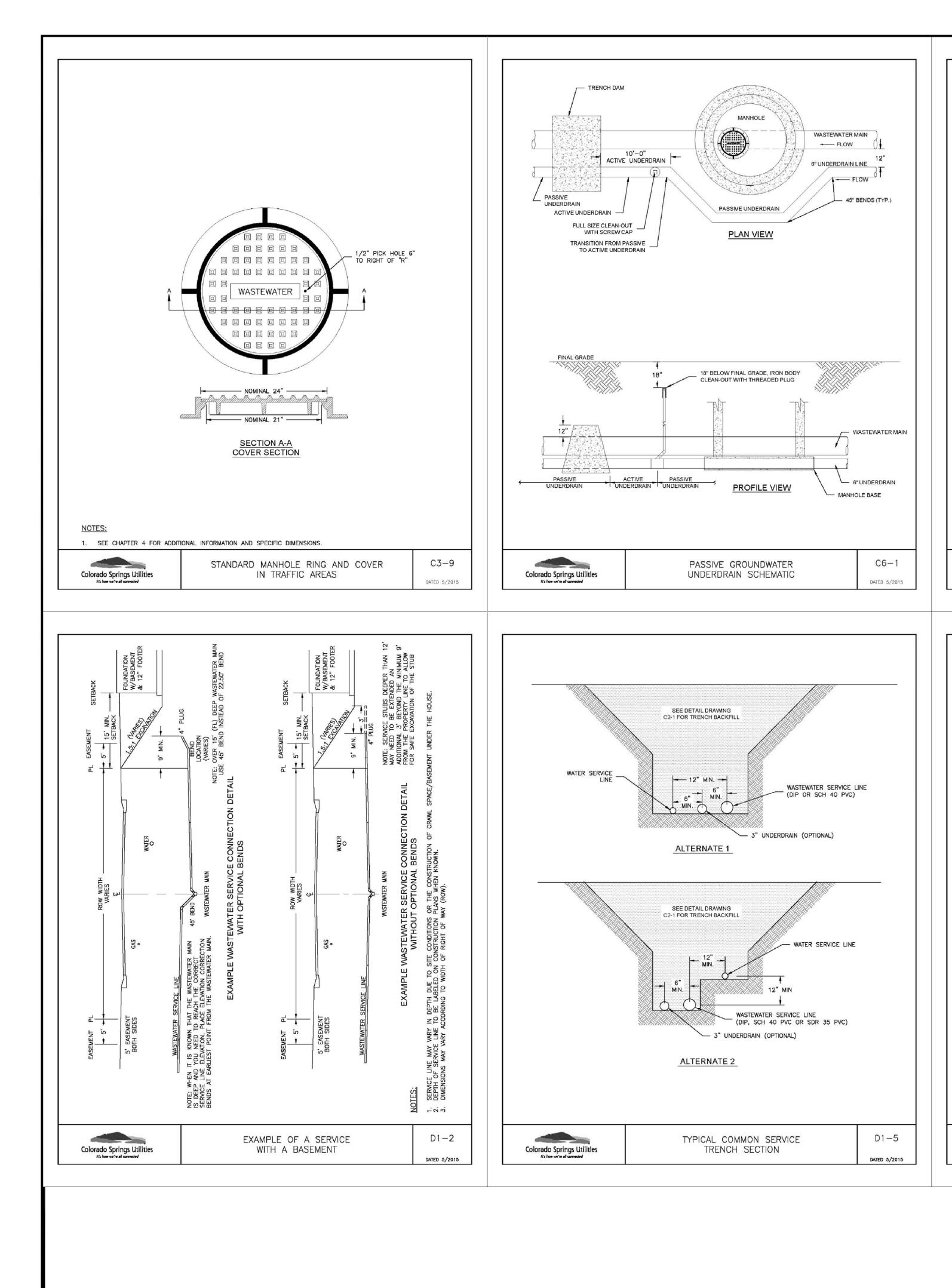


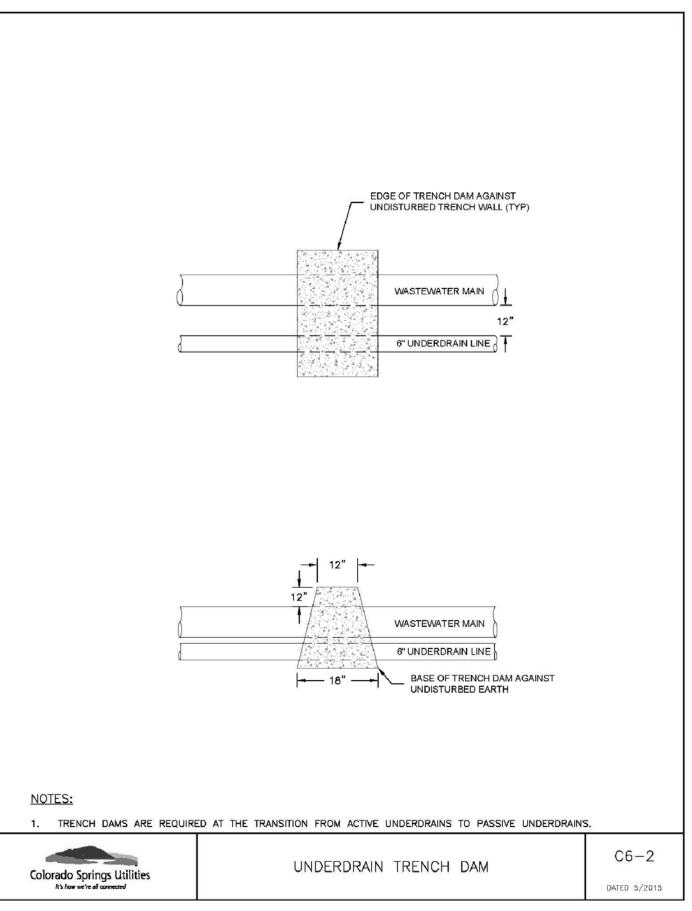
	CHEROKEE METROPOLITAN DISTRICT WATER PLAN DESIGN APPROVAL	
APPROVED BY:	DATE:	
	res one (1) year from the date above and resubmittal of these plans for revie pproval is required if construction does not begin during this period.	w

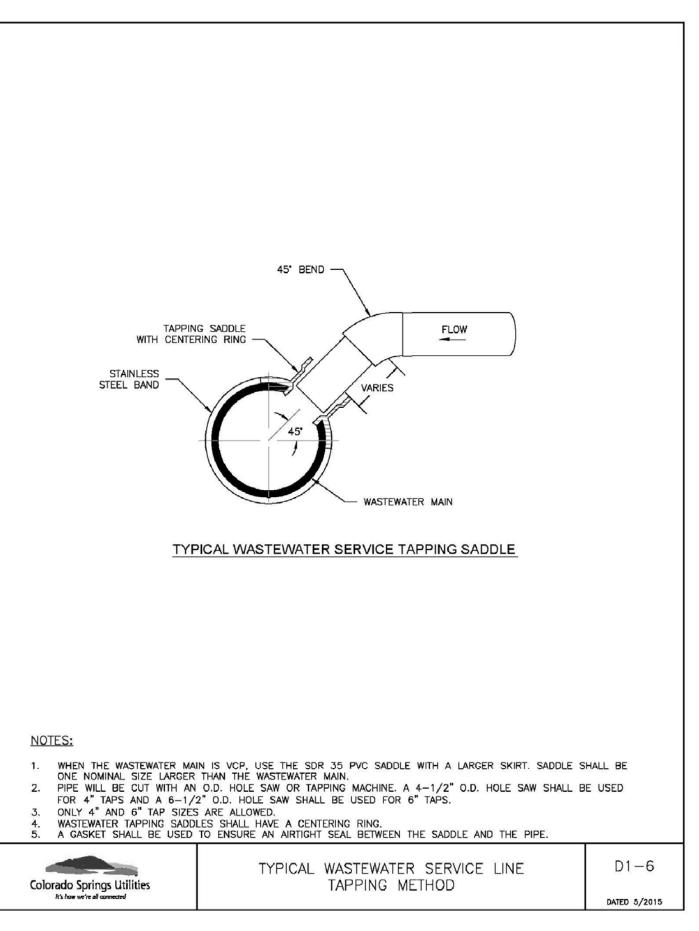
Approval expires one (1) year from the date above and resubmittal of these plans for review and approval is required if construction does not begin during this period.

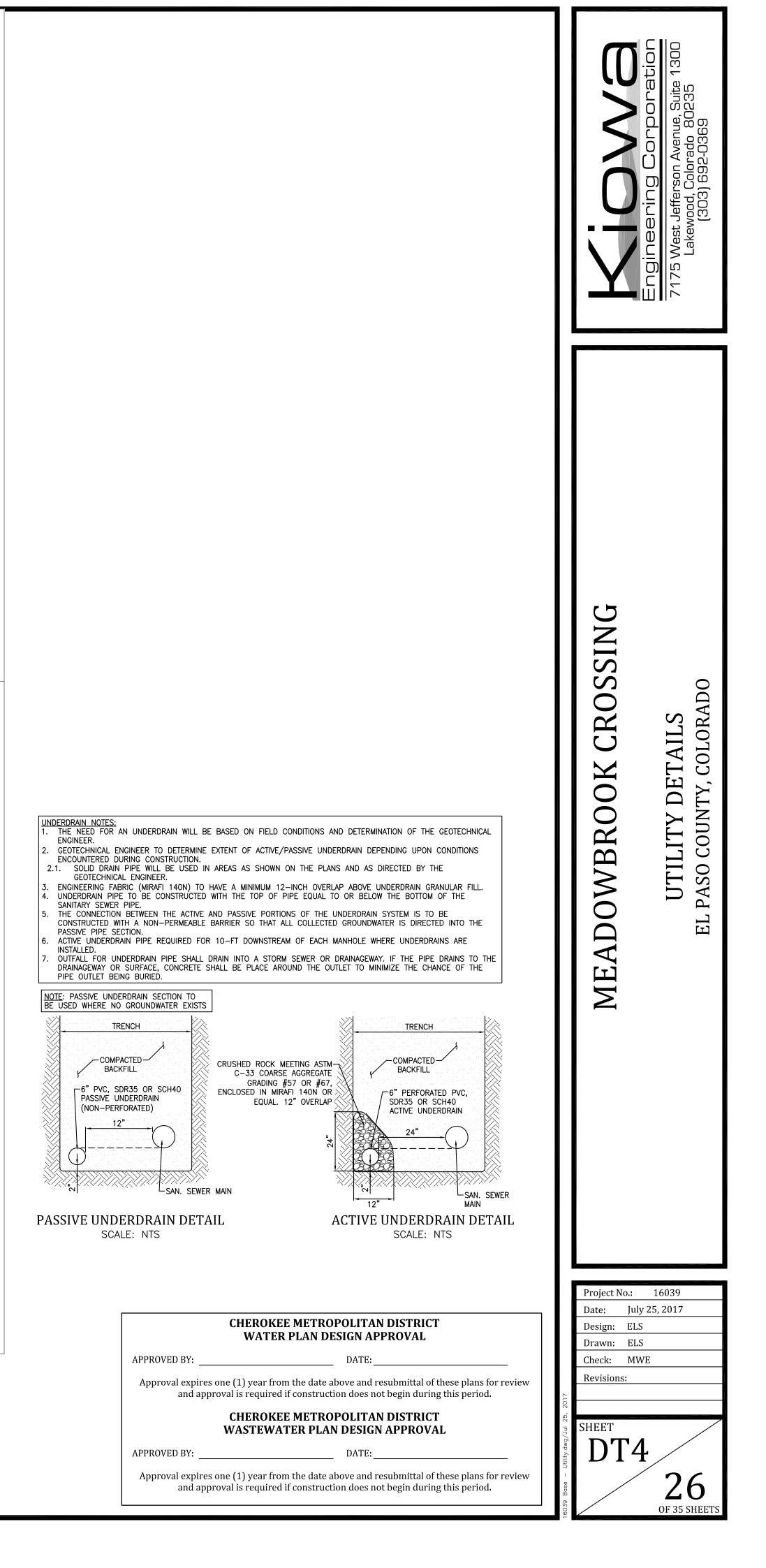
OF 35 SHEET

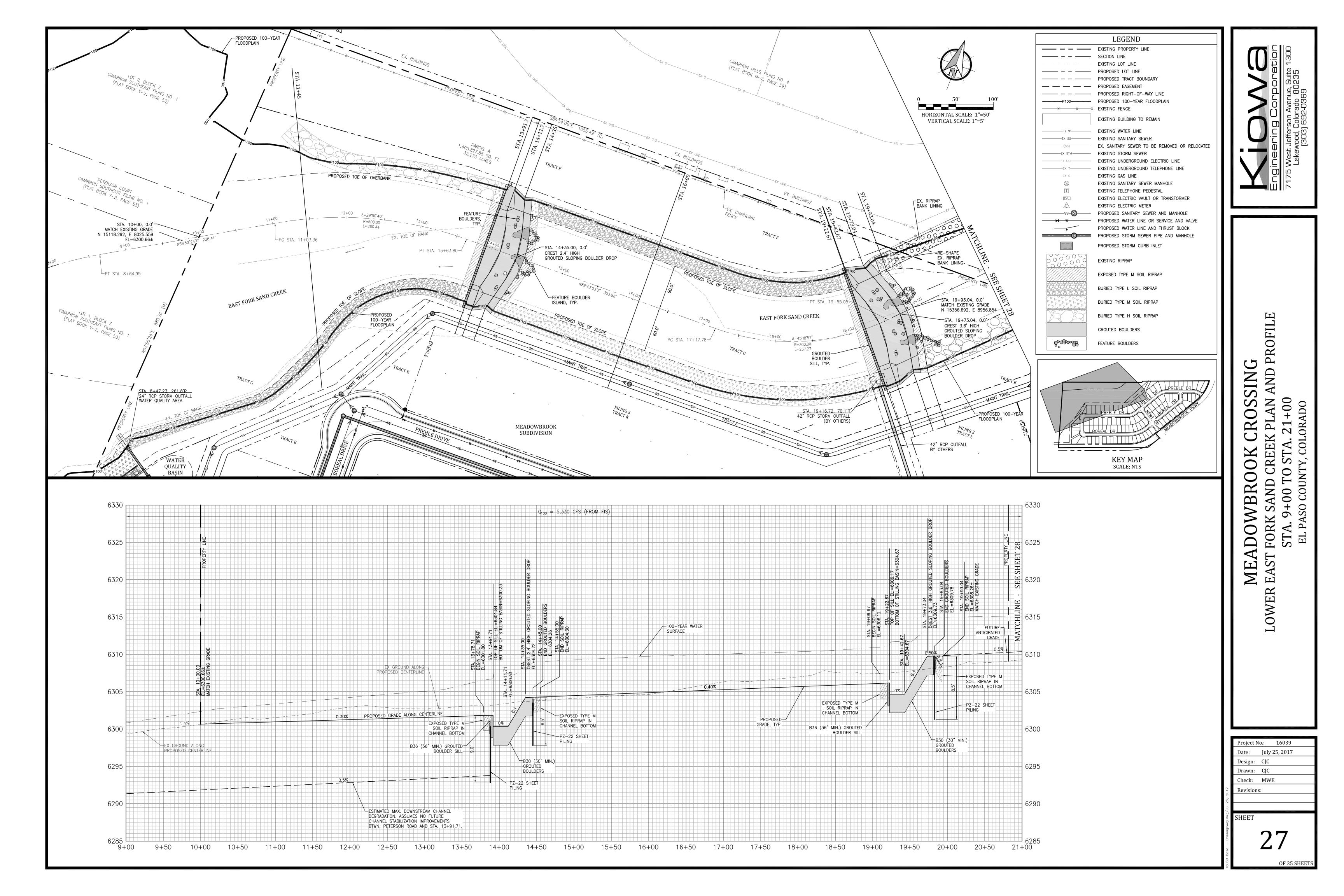
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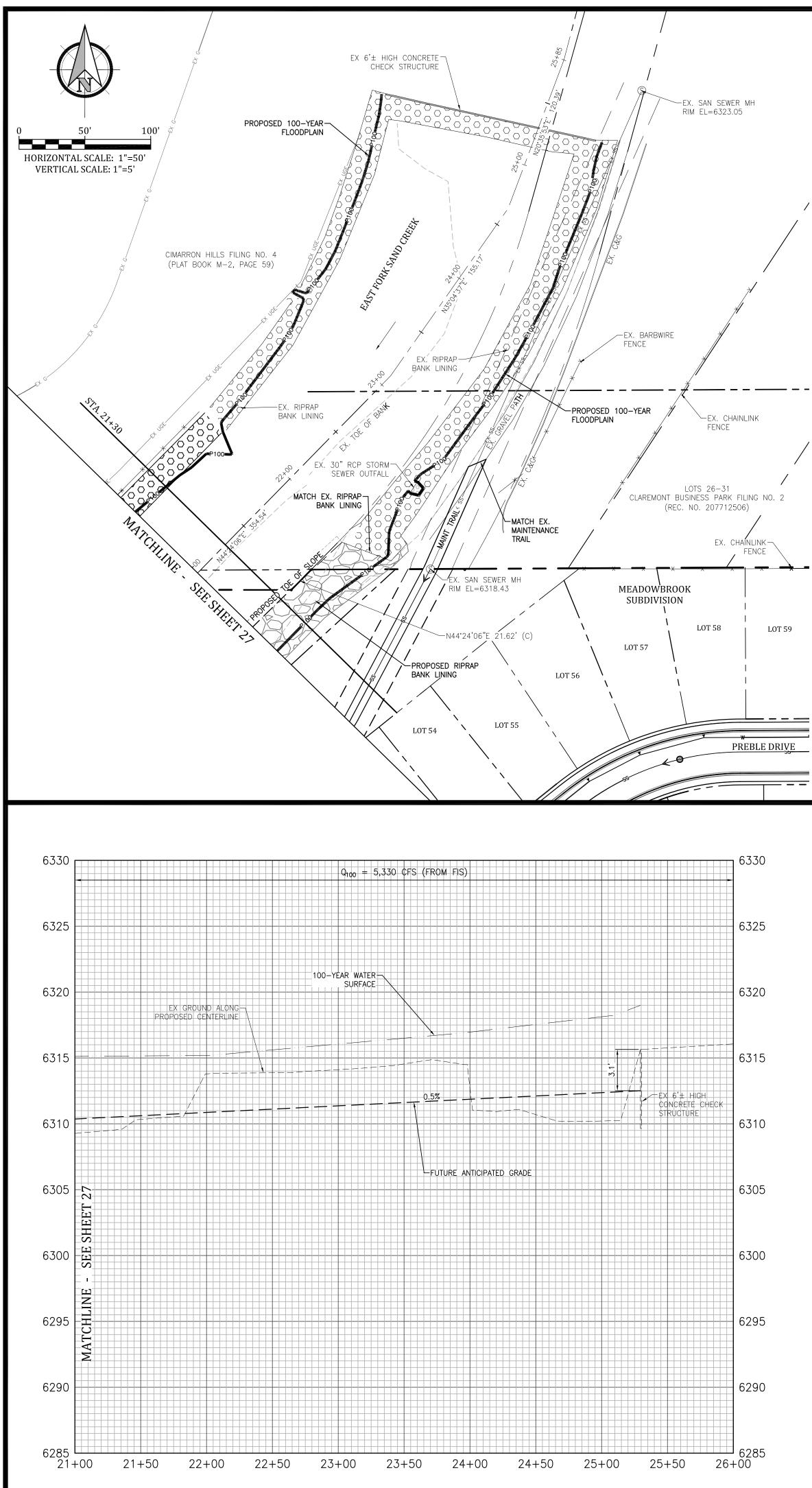










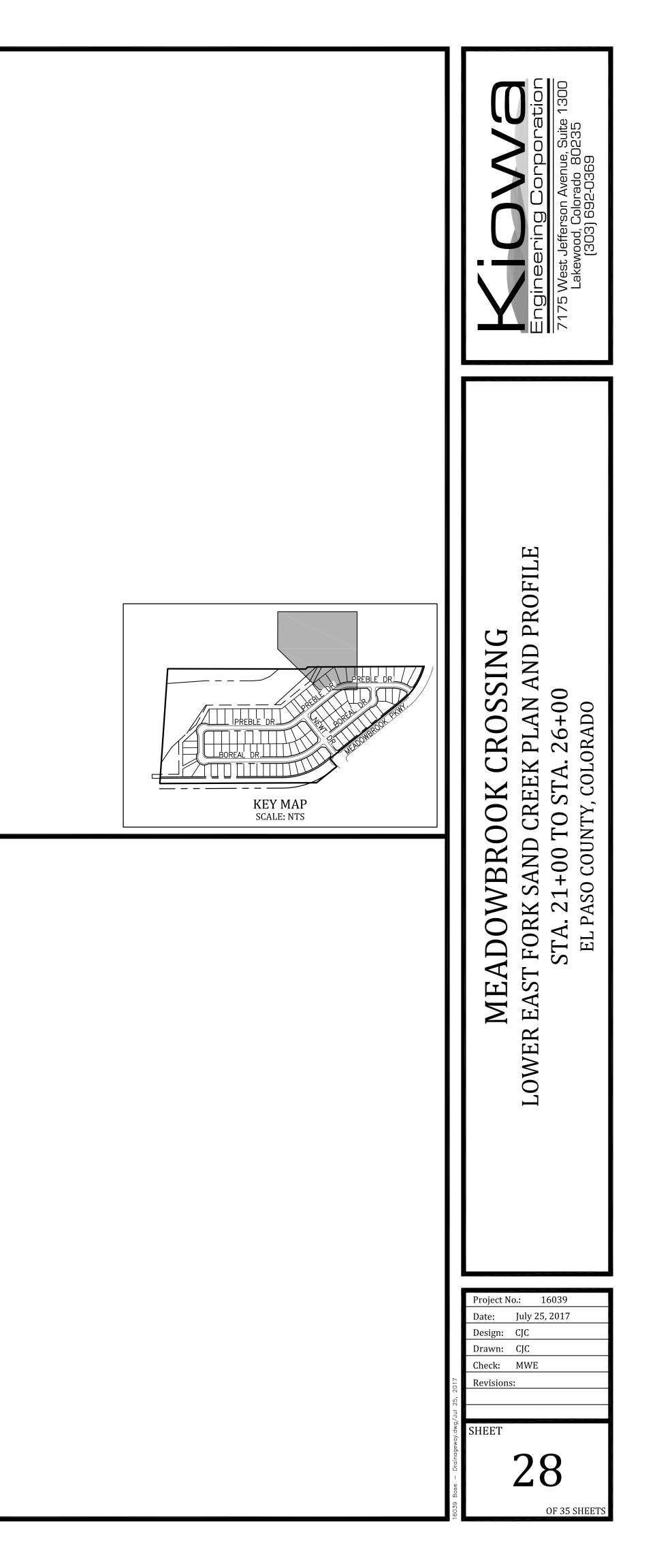


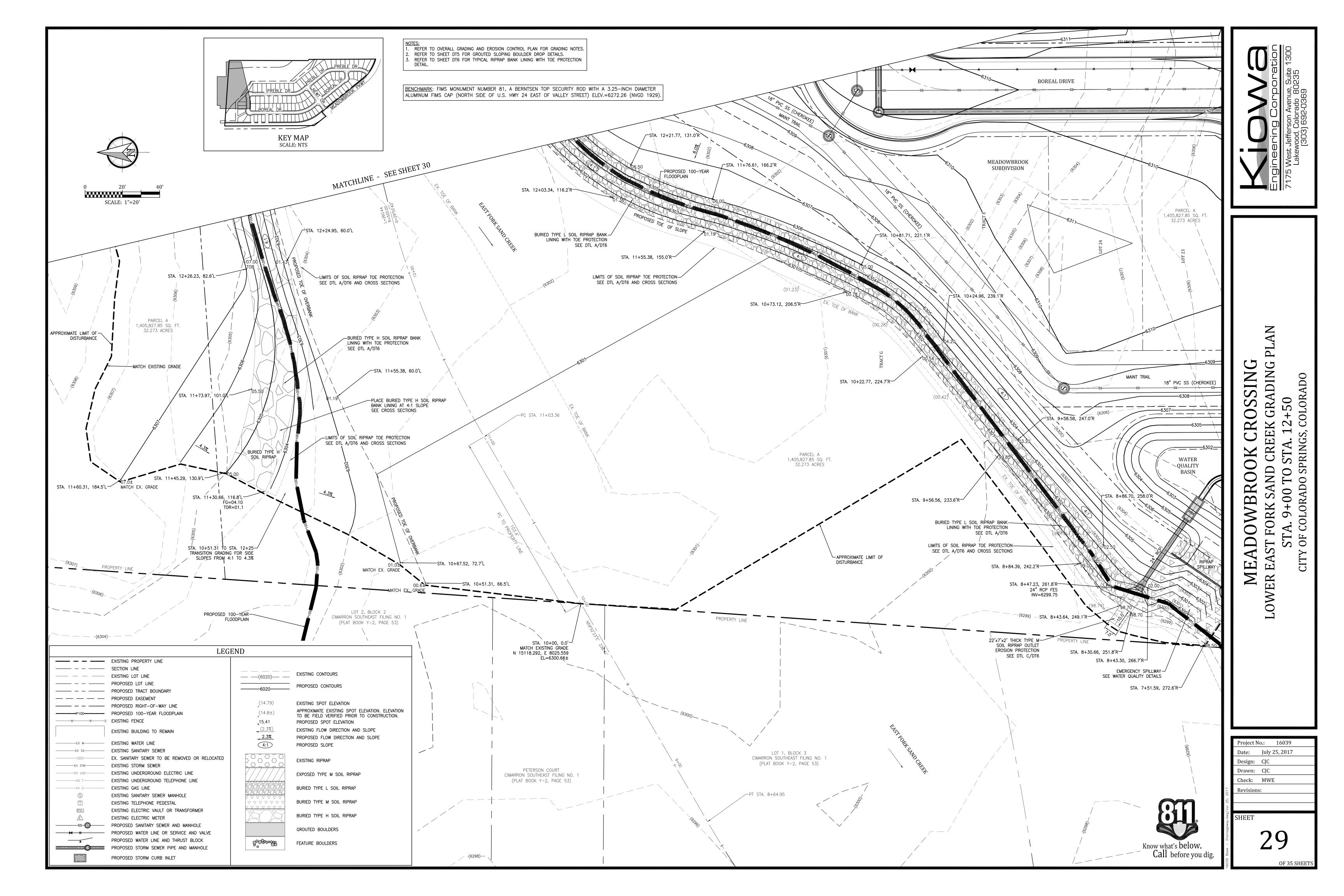
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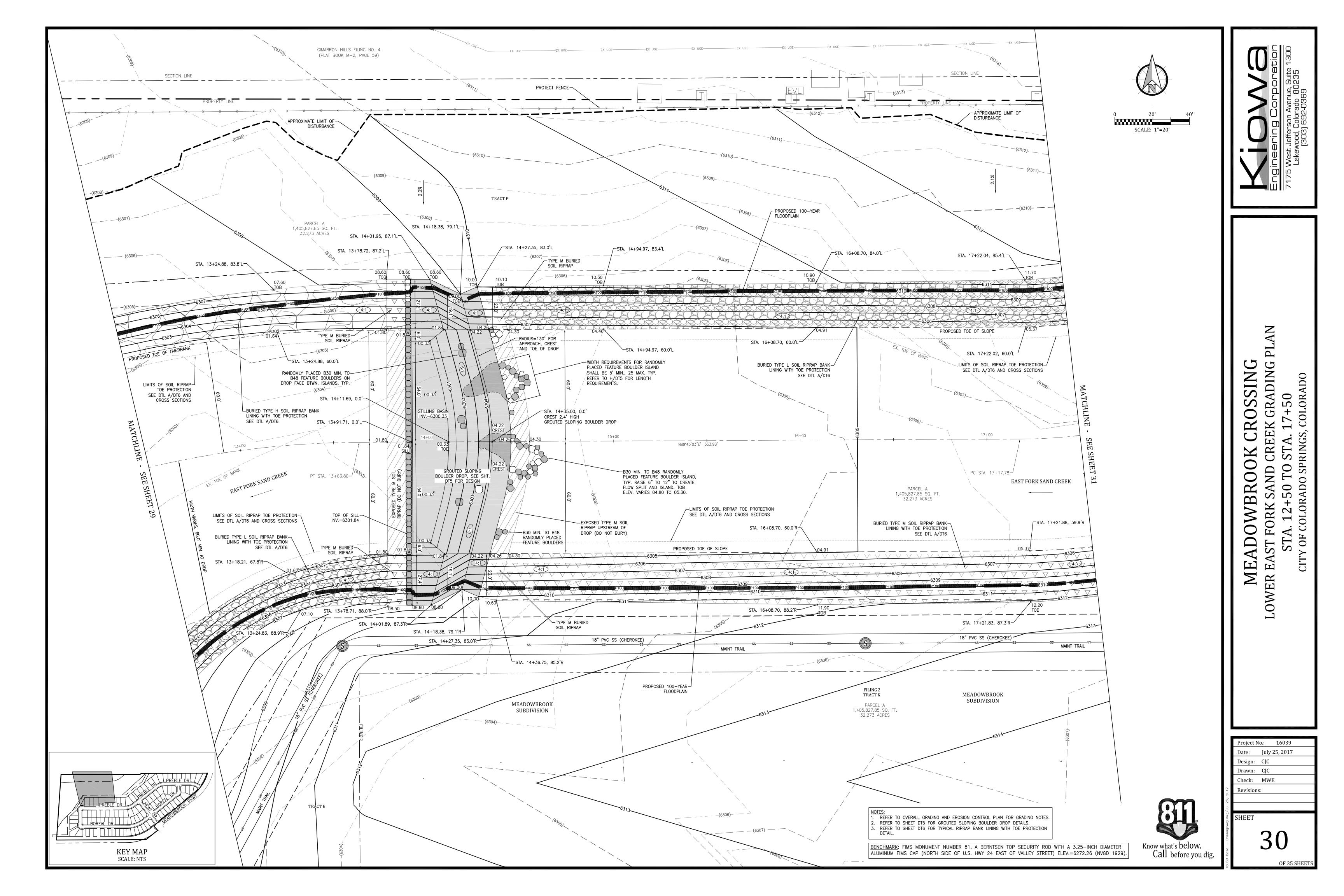
PREBLE DRIVE

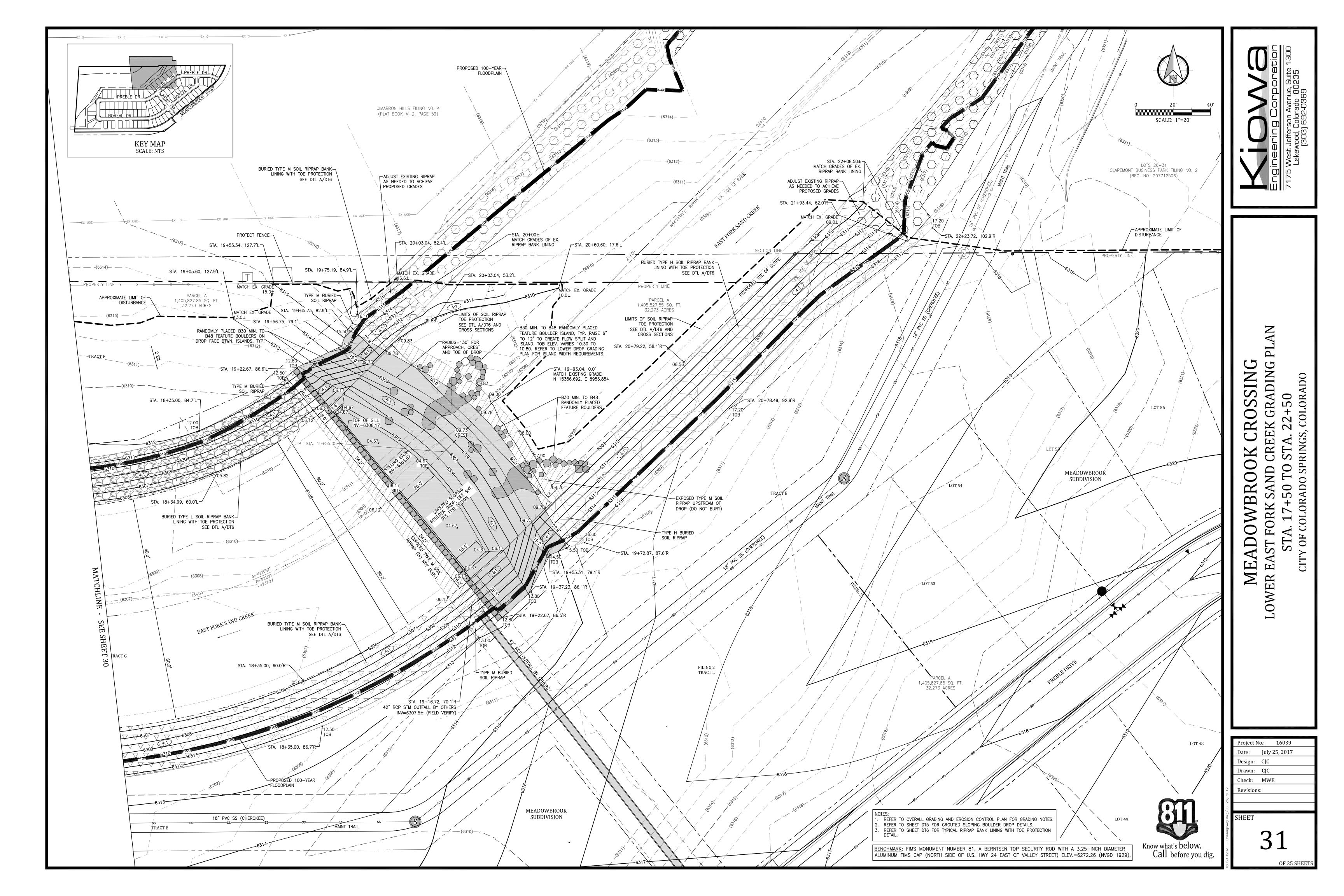
LOT 59

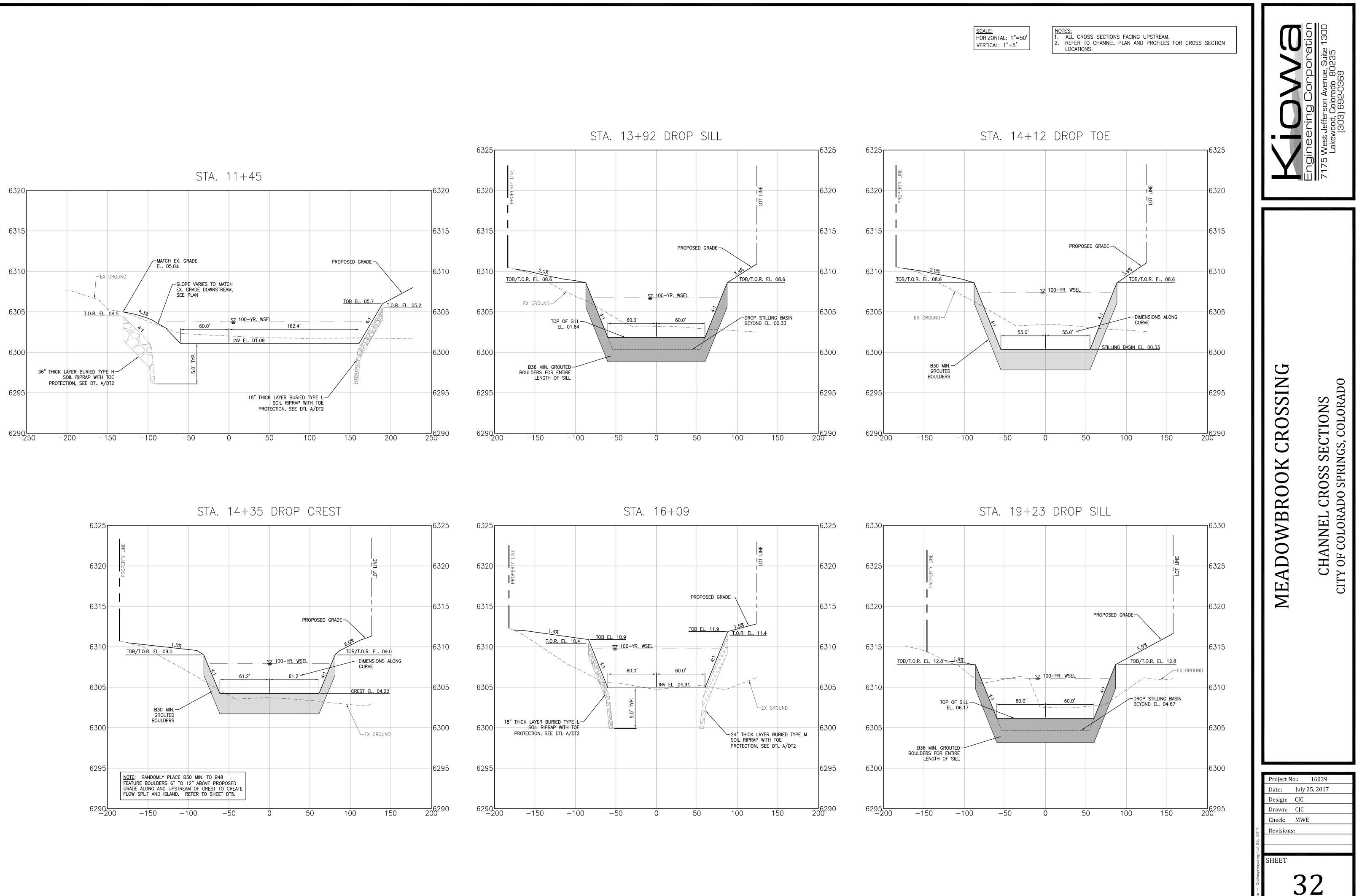
FENCE

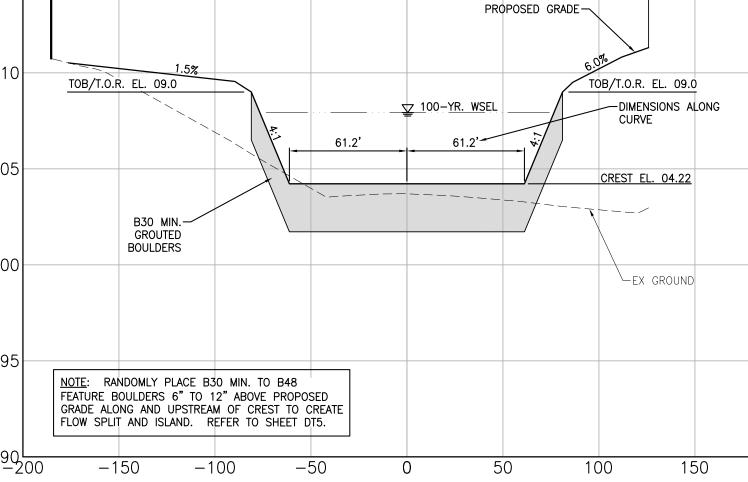




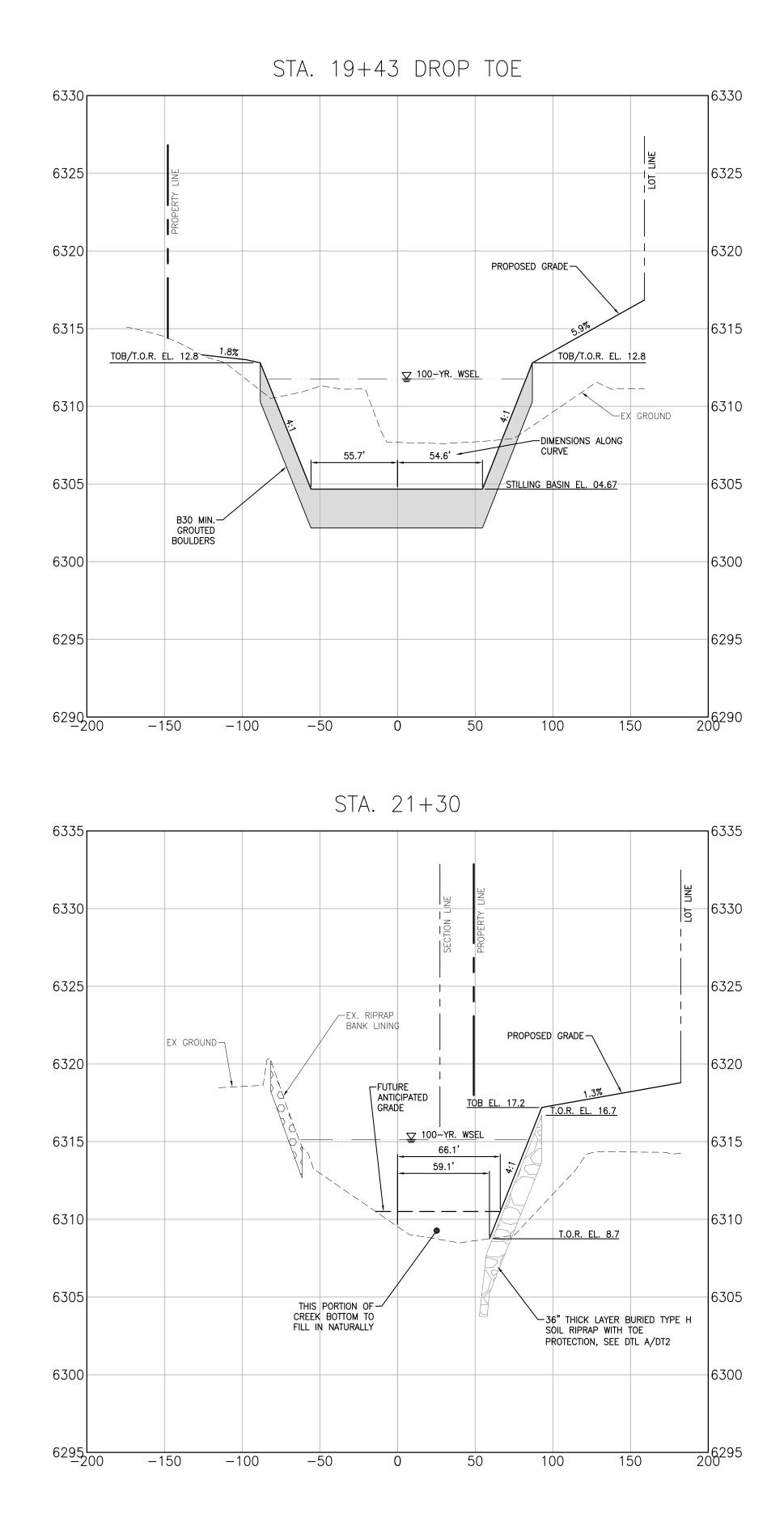


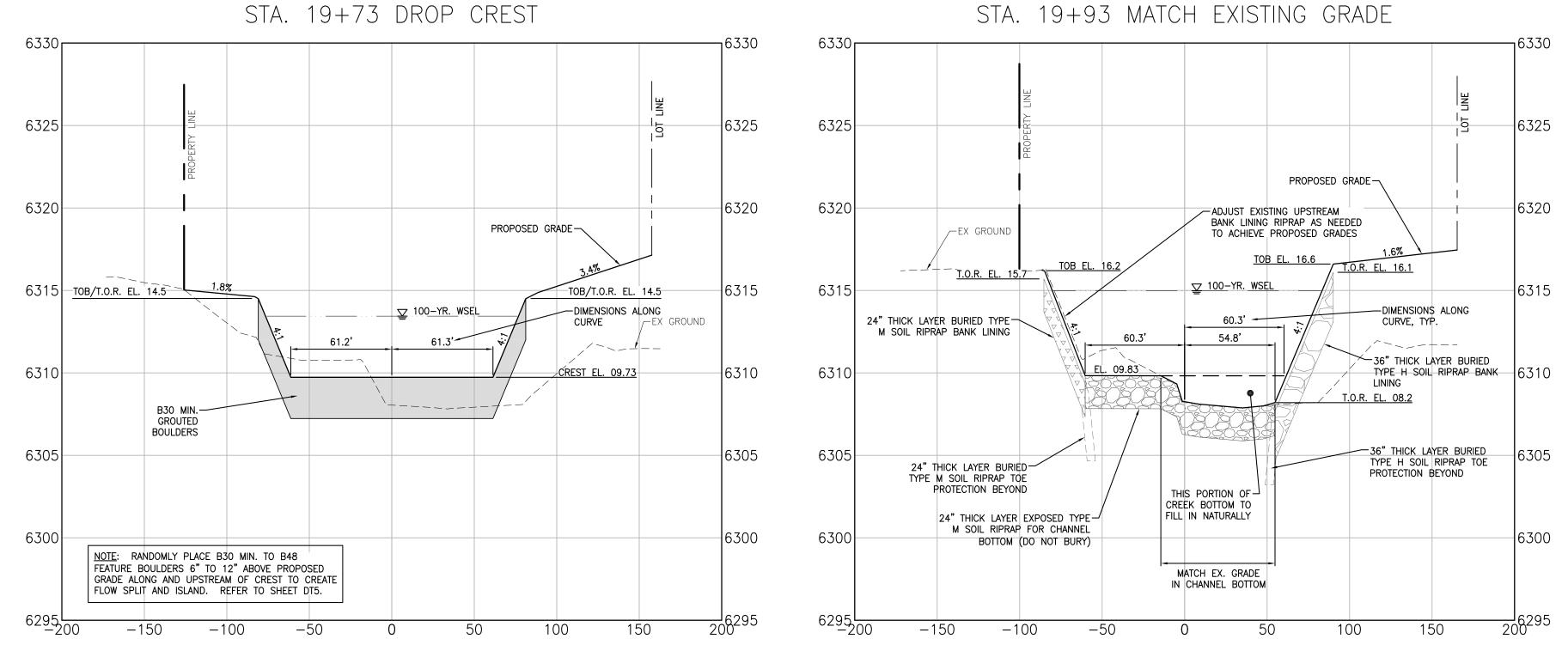






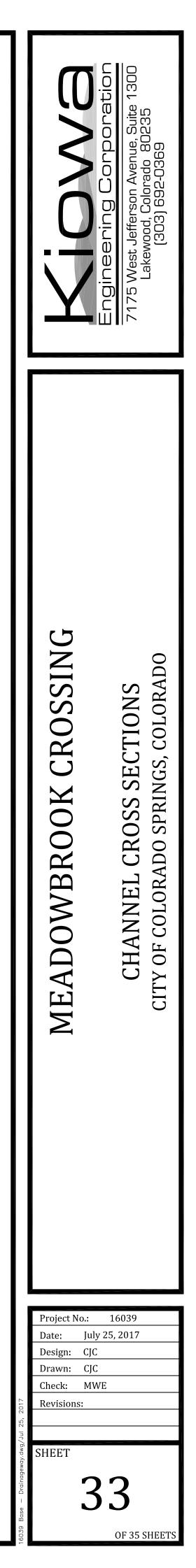
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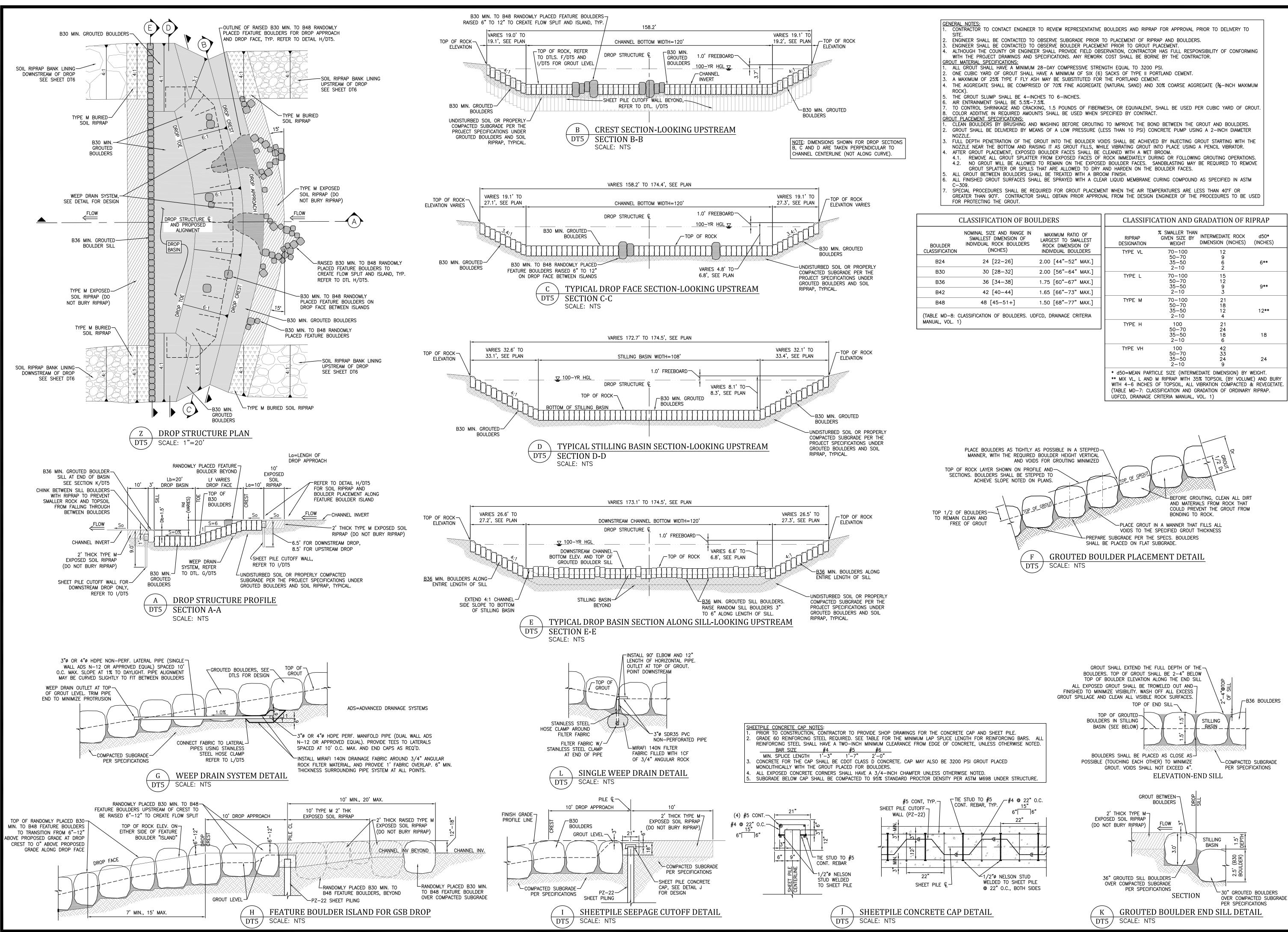




<u>SCALE:</u> HORIZONTAL: 1"=50' VERTICAL: 1"=5'

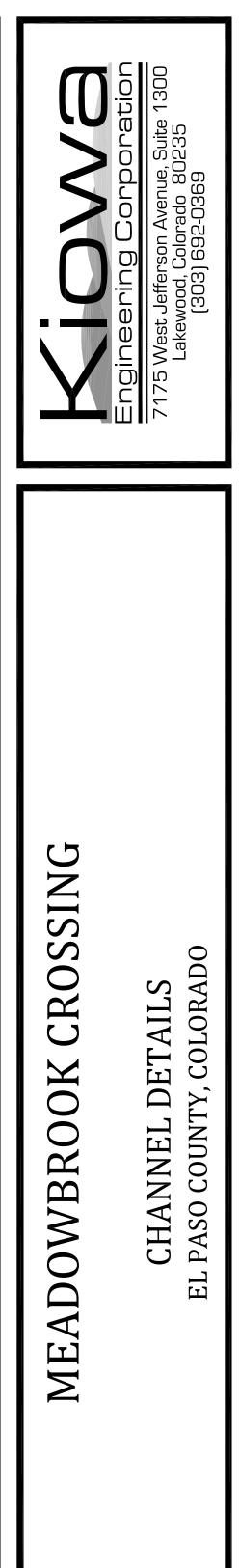
NOTES: 1. ALL CROSS SECTIONS FACING UPSTREAM. 2. REFER TO CHANNEL PLAN AND PROFILES FOR CROSS SECTION LOCATIONS.

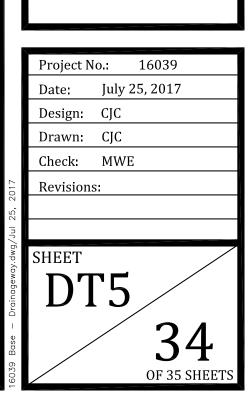


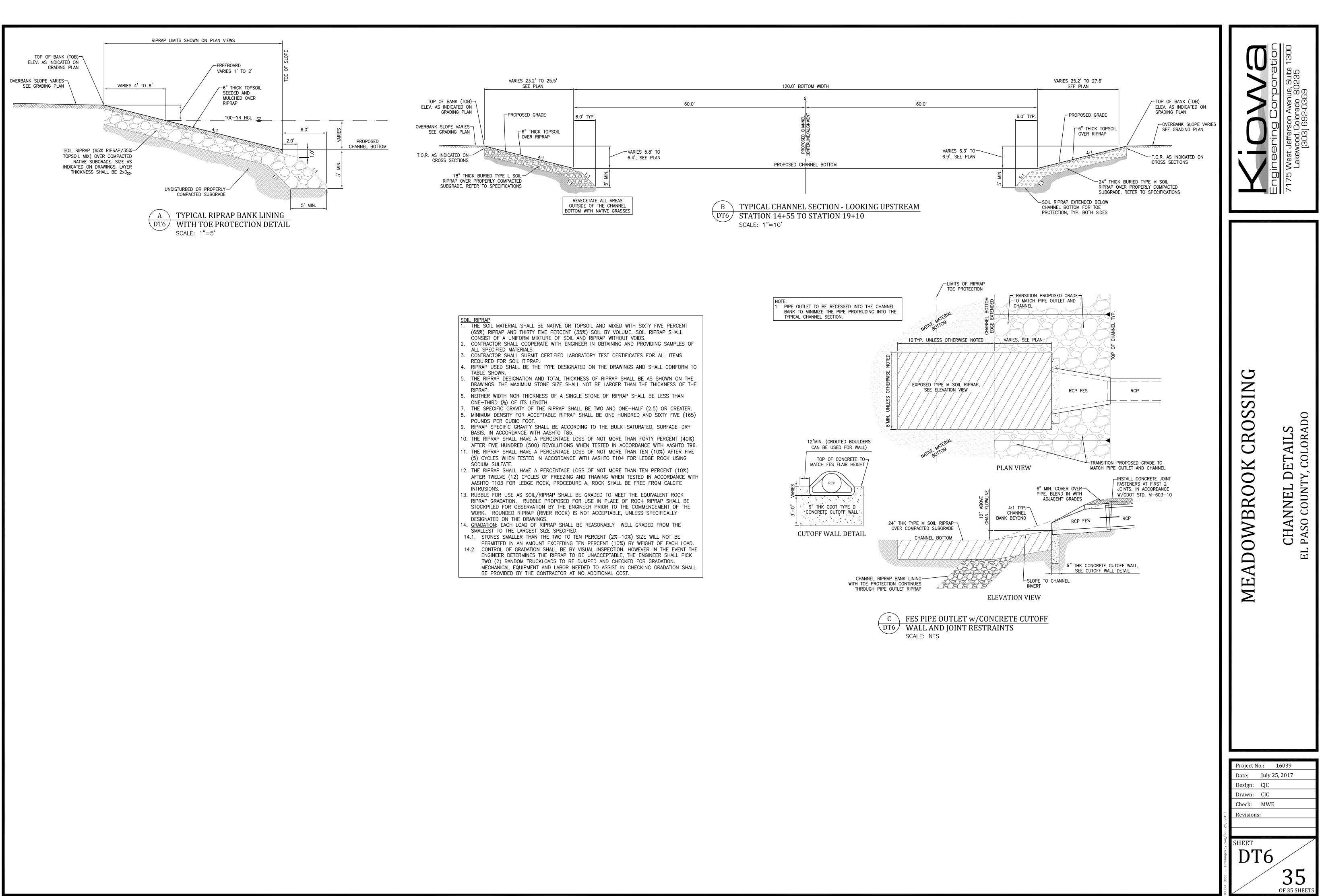


VAL SIZE AND RANGE IN ALLEST DIMENSION OF IDUAL ROCK BOULDERS (INCHES)	MAXIMUM RATIO OF LARGEST TO SMALLEST ROCK DIMENSION OF INDIVIDUAL BOULDERS
24 [22–26]	2.00 [44"-52" MAX.]
30 [28–32]	2.00 [56"-64" MAX.]
36 [34–38]	1.75 [60"-67" MAX.]
42 [40-44]	1.65 [66"-73" MAX.]
48 [45-51+]	1.50 [68"-77" MAX.]

CLASSIFICATION AND GRADATION OF RIPRAP				
RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	d50* (INCHES)	
TYPE VL	70-100 50-70 35-50 2-10	12 9 6 2	6**	
TYPE L	70-100 50-70 35-50 2-10	15 12 9 3	9**	
TYPE M	70-100 50-70 35-50 2-10	21 18 12 4	12**	
TYPE H	100 50-70 35-50 2-10	21 24 18 6	18	
TYPE VH	100 50-70	42 33		









Markup Summary

dsdlaforce (3)

CINC CS Rename to Meadowbrook Crossing Filing No. 1	Subject: Callout Page Label: 1 Lock: Unlocked Author: dsdlaforce Date: 8/10/2017 3:00:17 PM	Rename to Meadowbrook Crossing Filing No. 1
	Subject: Callout Page Label: 1 Lock: Unlocked Author: dsdlaforce Date: 8/10/2017 3:03:40 PM	Add as a 3rd paragraph: In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion. [Moving forward this statement must be included in the EPC signature block for construction drawings.
Add: PCD Project No. SF-17-002)	Subject: Callout Page Label: 1 Lock: Unlocked Author: dsdlaforce Date: 8/10/2017 3:09:55 PM	Add: PCD Project No. SF-17-002)