

K:\COS_Civil\096956009_Meadowbrook\CADD\PlanSheets\CDs\096956009CD_CV.dwg Pettk, Grant 6/8/2022 10:39 AM

LAND AREA:
351,529 SQ. FT. OR 8.07 ACRES MORE OR LESS

BASIS OF BEARING:
MEASURED BETWEEN THE NW CORNER OF TRACT 1, 94/24 BUSINESS PARK FILING NO. 1, MONUMENTED WITH A NO. 4 REBAR WITH 1" RED PLASTIC CAP MARKED PLS 37928,AND THE SOUTHWEST CORNER OF LOT 1, MONUMENTED WITH A FOUND NO. 5 REBAR WITH BLUE PLASTIC CAP MARKED WITH PLS 32820

BENCHMARK/ PROJECT CONTROL:
NORTHWEST CORNER OF TRACT A AND IS MONUMENTED AS A NO. 4 REBAR WITH RED PLASTIC CAP FLUSH WITH THE GROUND EL.6321.70

LEGAL DESCRIPTION
TRACT A, 94/24 BUSINESS PARK FILING NO. 1, EL PASO COUNTY, STATE OF COLORADO

SOIL TYPE:
THE SOIL ON SITE IS CLASSIFIED WITH THE USCS AS NATIVE SILTY TO CLAYEY SAND (SM-SC)

FLOOD ZONE DESIGNATION
FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBERS 08041C0752G EFFECTIVE DATE DECEMBER 7, 2018 INDICATES THIS PARCEL OF LAND IS LOCATED IN ZONE X (OUT OF THE 500 YEAR FLOODPLAIN)

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C1.30	DETENTION POND PLAN
C1.31	POND DETAILS
C1.32	RAIN GARDEN DETAILS
C1.33	RAIN GARDEN DETAILS

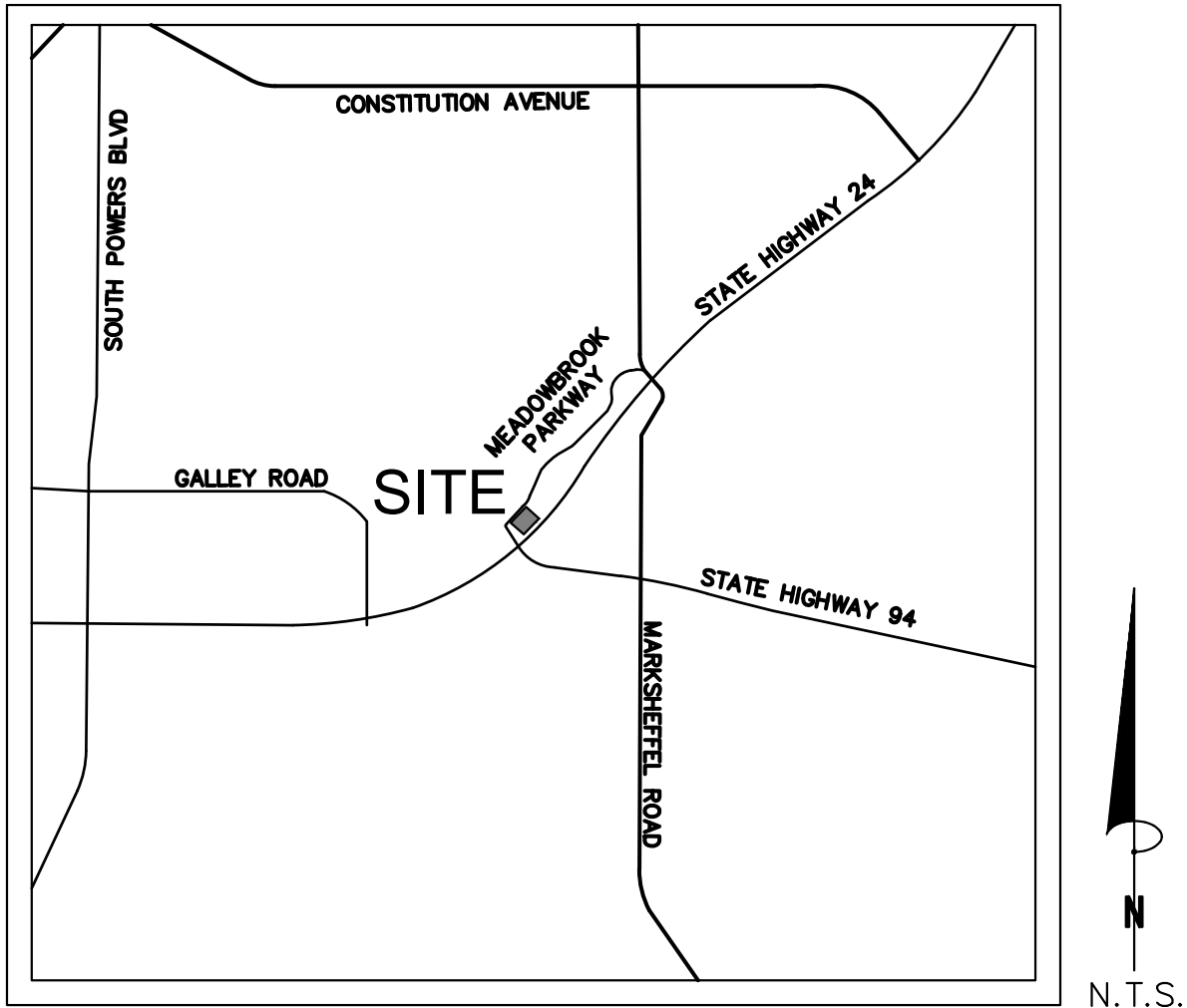
MEADOWBROOK PARK

CIVIL CONSTRUCTION DOCUMENTS

TRACT A, 94/24 BUSINESS PARK, FILING NO.1

EL PASO COUNTY, STATE OF COLORADO

PCD FILING NO. SF-21-025



VICINITY MAP
N.T.S

QUANTITIES*

SITE AREA		STORM SEWER	
Retaining Wall	2052 LF	PIPES	
Curb	3665 LF	10" PVC	175 LF
Type C (Mountable)	1865 LF	10" Culvert	8 LF
Type A	1800 LF	18" RCP	955 LF
Asphalt Pavement (Roadway)	40330 SF	24" RCP	255 LF
Concrete (Driveway)	23946 SF	30" RCP	377 LF
Concrete Sidewalk	19089 SF	36" RCP	46 LF
Concrete Pan	2		
Screen Wall	782 LF	STRUCTURES	
(Attached) Curb Ramp	19	Concrete Forebay	2
(Detached) Curb Ramp	6	Concrete Trickle Channel	330 LF
		Maintenance Road (CDOT Class 6 Base)	36 CY
		Nyloplast 8" Area Inlet	2
		Emergency Overflow (Type L Riprap)	20 Ton
		Rock Chute (Type L Riprap)	110 Ton
		5' Type R Inlet	7
		8' Type D-10-R Inlet	1
		CDOT Type D Inlet	2
		CDOT Type C Inlet	1
		Modified Type C Inlet	1
		4' Eccentric Top MH	3
		4' Flat Top MH	2
		5' Eccentric Top MH	2
		5' Flat Top MH	4

*QUANTITY TABLES PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QUANTITIES REQUIRED FOR CONSTRUCTION

CONTACTS:

OWNER:
MEADOWBROOK DEVELOPMENT, LLC
90 S. NEVADA AVENUE
COLORADO SPRINGS,CO 80903
TEL: (719) 475-7621
CONTACT:DANNY MIENTKA

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
2 NEVADA NORTH AVE., SUITE 300
COLORADO SPRINGS, CO 80903
TEL: (719) 453-0182
CONTACT: JOHN HEIBERGER, P.E.

SURVEYOR:
CLARK LAND SURVEYING, INC.
177 S. TIFFANY DRIVE, UNIT 1
PUEBLO WEST, CO 81007
TEL: (719) 582-1270
CONTACT: STEWART L. MAPES JR., PLS

EL PASO COUNTY:
EL PASO COUNTY
PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
PHONE: (719) 520-6300

WATER & WASTEWATER:
CHEROKEE METROPOLITAN DISTRICT
6250 PALMER PARK BLVD.
COLORADO SPRINGS, CO 80910
TEL: (719) 595-5080

FIRE:
CIMARRON HILLS FIRE DEPT.
1835 TUSKEGEE PLACE
COLORADO SPRINGS, CO 80910
PHONE: (719) 591-1960

OWNER'S SIGNATURE BLOCK

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

Kelly Nelson 06/06/2022
NAME DATE

ENGINEER'S SIGNATURE BLOCK

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 THE APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS

John Heiberger 06/06/2022
JOHN HEIBERGER, PE – KIMLEY-HORN AND ASSOCIATES, INC. DATE

EL PASO COUNTY REVIEW STATEMENT

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

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

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTIONS DISCRETION.

APPROVED
Engineering Department
07/18/2022 9:01 AM
B. H. H. H.

EPC Planning & Community
Development Department

COUNTY ENGINEER/ECM ADMINISTRATOR

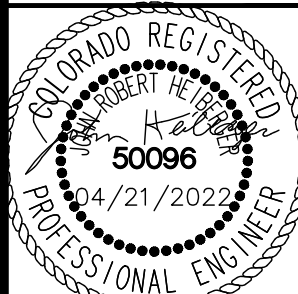
DATE

Kimley»Horn

2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
COVER SHEET



PROJECT NO.
096956009

SHEET

C1.0

ENGINEERING CONSTRUCTION NOTES

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-922-1987).
4. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
7. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE CITY OF COLORADO SPRINGS' SPECIFICATIONS AND STANDARDS. (LATEST EDITION)
8. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, AND ALL OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH MUTCD CONSTRUCTION AREA TRAFFIC CONTROL.
9. ALL LANDSCAPE WORK IS SUBJECT TO A 1-YEAR SURVIVAL/THRIVE WARRANTY. CONTRACTOR SHALL PROVIDE 1-YEAR MAINTENANCE AS PART OF INSTALLATION. MAINTENANCE OF TURF GRASSES WITH WEEKLY MOWING IS TO BE INCLUDED. MAINTENANCE OF IRRIGATION TO INCLUDE STARTUP AND BLOWOUT OF SYSTEM, REPLACEMENT OF DAMAGED HEADS, ADJUSTMENTS TO TIMING AND SPRAY AREA TO OPTIMIZE SYSTEM, ETC.
10. UPON COMPLETION OF INSTALLATION AND COMMISSIONING OF SYSTEM AS WELL AS A PART OF 1-YEAR WARRANTY WALK, CONTRACTOR SHALL PROVIDE OWNER'S DESIGNATED REPRESENTATIVE AN INSTRUCTIONAL ORIENTATION TO SYSTEM OPERATION AND MAINTENANCE.
11. ALL DEVIATIONS FROM IRRIGATION DESIGN DRAWINGS AS WELL AS MEASURED OFFSET DISTANCES FOR MAINLINES (FROM SIDEWALKS) SHALL BE MARKED BY CONTRACTOR ON IRRIGATION PLANS AND PROVIDED TO OWNER AT COMPLETION OF INSTALLATION.
12. AFTER COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILD DRAWINGS OF ALL IMPROVEMENTS INCLUDED IN THE CIVIL CONSTRUCTION DRAWINGS TO THE OWNER AND ENGINEER OF RECORD.

ENGINEERING DEMOLITION NOTES

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
2. ALL CONDITIONS SHOWN TO BE "EXISTING" SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE OWNER AND THE ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THIS PROJECT DUE TO EXISTING SITE CONDITIONS MUST BE APPROVED BY BOTH THE OWNER AND THE ENGINEER PRIOR TO MAKING ANY CHANGES.
3. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION.
4. WHEN UTILITIES ARE REMOVED, CAP AND SEAL AT A MINIMUM DEPTH OF 8" BELOW FINISH GRADE.

ENGINEERING SITE NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
2. CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING GRADE AT ALL TIE IN LOCATIONS.
3. CONTRACTOR SHALL REMOVE PAVEMENT AND CONCRETE IN ACCORDANCE WITH SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS AND/OR THE COLORADO STATE DEPARTMENT OF TRANSPORTATION.
4. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
5. CONTRACTOR SHALL REFER TO BUILDING PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY TRENCHES, TO INCLUDE, SANITARY SEWER, LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS, COORDINATE WITH ANY UTILITY COMPANIES FOR APPROVED LOCATIONS AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
7. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, BASEMENTS, CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ENGINEERED WALL PLANS FOR ALL SITE RETAINING WALLS SHOWN HEREON FOR REFERENCE. CONTRACTOR SHALL SUBMIT ENGINEERED WALL PLANS TO ENGINEER OF RECORD AND EL PASO COUNTY FOR REVIEW AND ISSUANCE OF WALL BUILDING PERMITS PRIOR TO CONSTRUCTION.

ENGINEERING PAVING NOTES

1. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
2. ALL CONCRETE SIDEWALKS SHALL HAVE CONTROL JOINTS CUT ON 5' CENTERS AND EXPANSION JOINTS PLACED ON 20' CENTERS. CONCRETE PAVEMENT JOINTS SHALL BE SPACED AT 12' CENTERS MAXIMUM.
3. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS.
4. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

ENGINEERING GRADING NOTES

1. CONTOURS ON SIDEWALKS AND PRIVATE/PUBLIC ROADWAYS ARE TO FINISH GRADE.
2. FOR GROUND TREATMENT OF ALL OPEN AREAS WITHIN THE PROJECT SITE, REFER TO LANDSCAPE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND OR OTHER FINAL LANDSCAPE PLANTING IS WELL ESTABLISHED.

ENGINEERING DRAINAGE AND STORM WATER NOTES

1. ON-SITE STORM SEWER SYSTEM HAS BEEN PROVIDED TO MAINTAIN THE EXISTING DRAINAGE PATTERNS.
2. ALL ON-SITE STORM SEWER IS PRIVATE, UNLESS OTHERWISE NOTED.
3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND ANY EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
4. THE CONTRACTOR SHALL DE-SILT ALL DRAINAGE STRUCTURES AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
5. IF TEMPORARY OR PERMANENT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER PRIOR TO EXCAVATION.
6. OWNER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING THE STATE STORMWATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES AT LEAST TEN BUSINESS DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENGINEERING SIGNING AND STRIPING NOTES

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

ENGINEERING NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

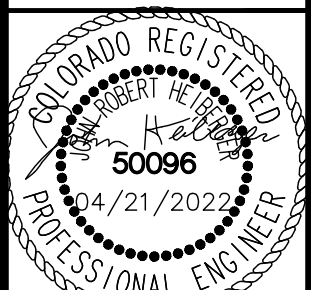
3. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION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

[illegible]

Kimley»»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

**MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GENERAL NOTES**

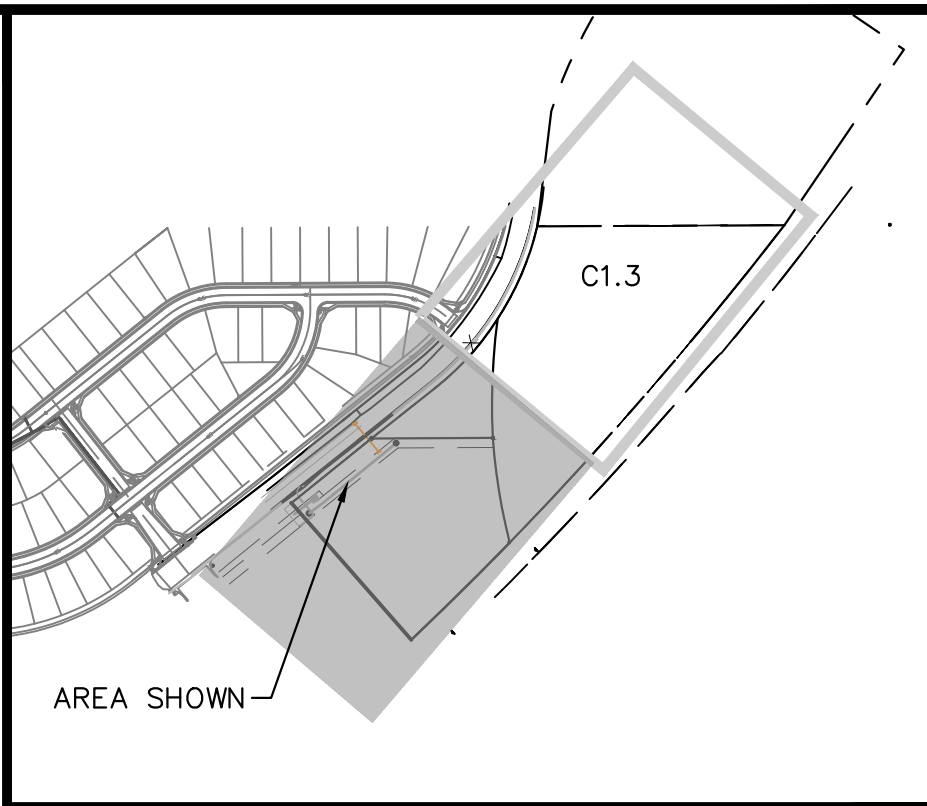
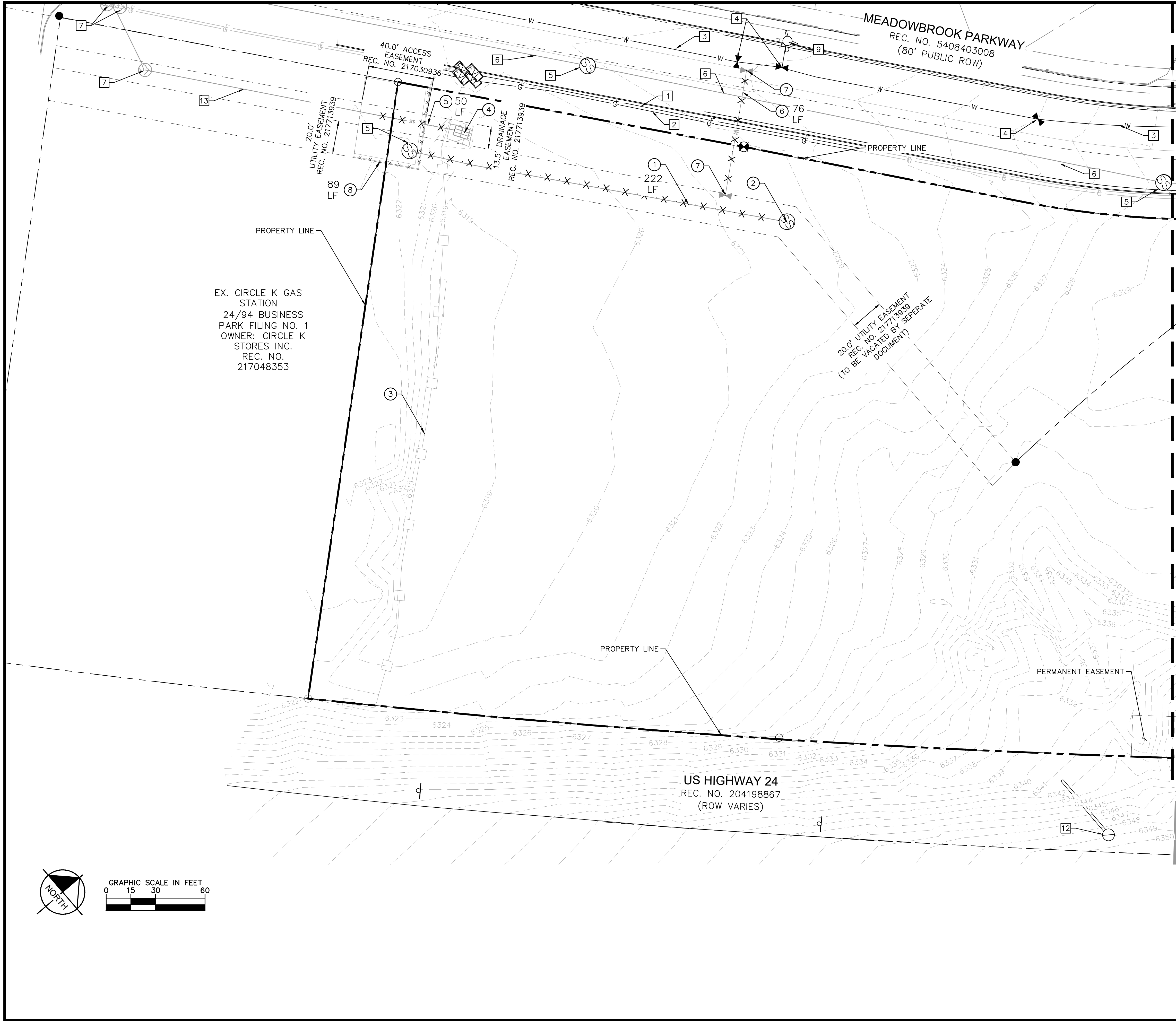


PROJECT NO.
096956009

SHEET

C1.1

K:\COS_Civil\096956009_Meadowbrook\CADD\PlanSheets\CDs\096956009CD_DM.dwg Petlik, Grant 6/8/2022 10:39 AM



KEY MAP
NOT TO SCALE

LEGEND

- PROPERTY LINE
- PARCEL LINE
- EX. GAS LINE
- EX. SANITARY SEWER LINE
- EX. ELECTRIC LINE
- EX. WATER LINE
- EX. STORM SEWER
- DEMO EXISTING UTILITY
- DEMO EXISTING ASPHALT PAVEMENT
- DEMO EXISTING ROADWAY STRIPING
- DEMO CURB AND GUTTER
- PROPOSED SAWCUT LINE

GENERAL NOTES

- ALL EXISTING UTILITIES TO REMAIN UNLESS OTHERWISE NOTED.
- UTILITIES TO BE REMOVED ARE TO BE CAPPED IN PLACE IN ACCORDANCE WITH LOCAL UTILITY REGULATIONS.

EXISTING SITE FEATURES TO REMAIN

- EX. ELECTRIC LINE
- EX. GAS LINE
- EX. 12" WATER MAIN
- EX. WATER VALVE
- EX. SANITARY SEWER MANHOLE
- EX. 30" PVC SANITARY SEWER
- EX. STORM SEWER INLET
- EX. 30" CMP STORM SEWER CULVERT
- EX. FIRE HYDRANT
- EX. TREES
- EX. IRRIGATION CONTROL
- EX. TRAFFIC SIGNAL
- EX. 36" RCP STORM SEWER

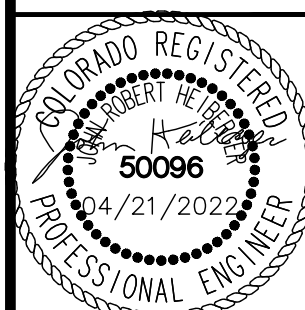
DEMO/RELOCATE

- DEMO 8" PVC SANITARY SEWER LINE
- DEMO SANITARY SEWER MANHOLE
- DEMO CONSTRUCTION FENCE
- DEMO STORM SEWER INLET
- DEMO 36" RCP STORM SEWER LINE
- DEMO 12" PVC WATER LINE
- DEMO WATER VALVE
- DEMO EXISTING CURB AND GUTTER
- RELOCATE EXISTING ELECTRIC VAULT

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MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
EXISTING CONDITIONS AND DEMO PLAN

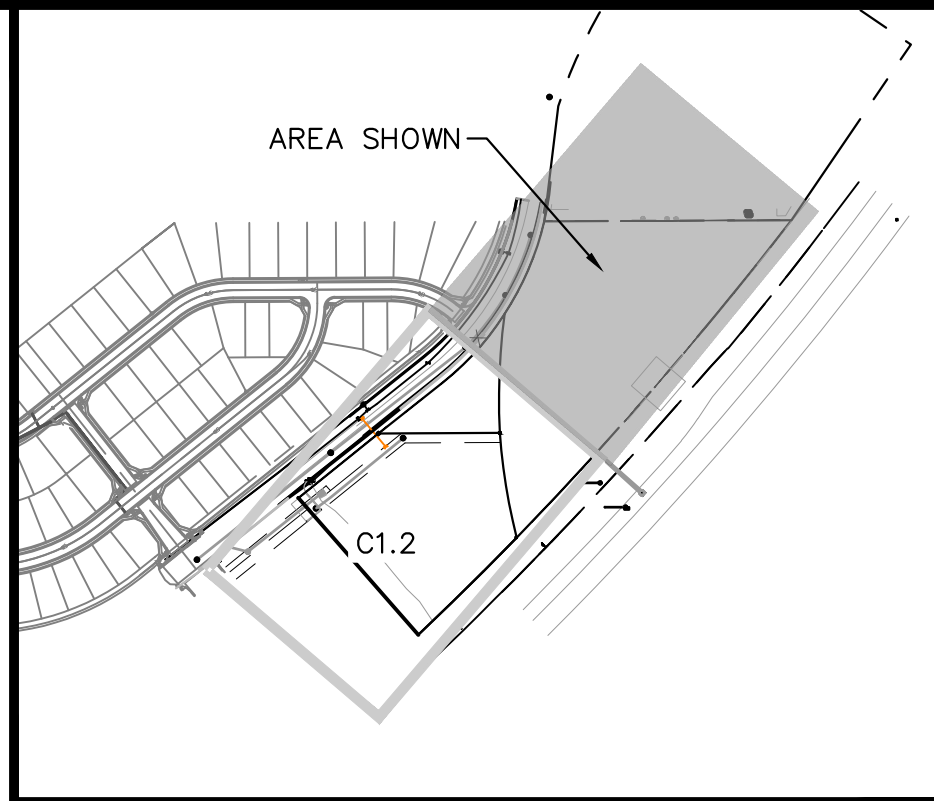
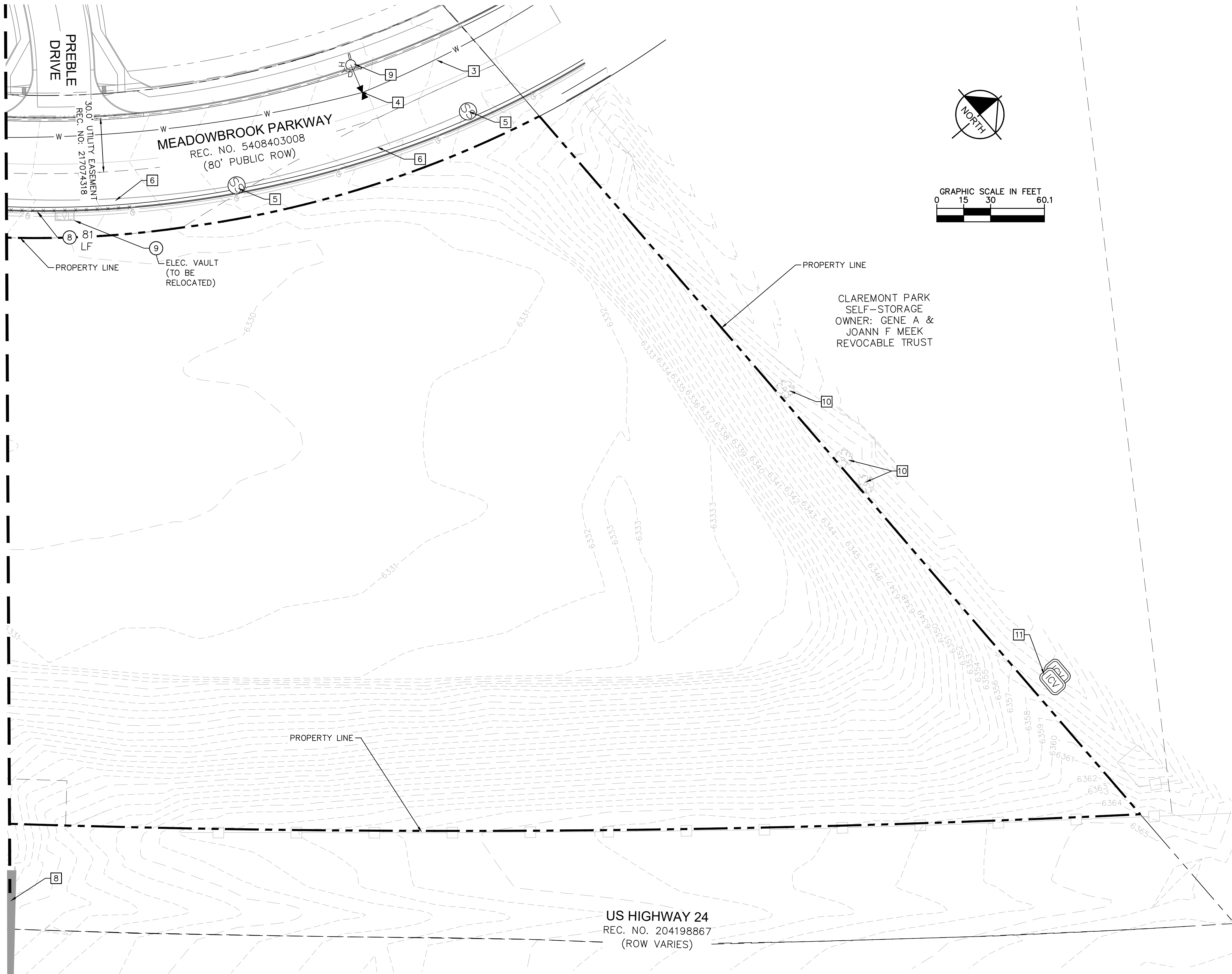


PROJECT NO.
096956009

SHEET
C1.2

EPC 7/18/22

MATCHLINE REFER TO SHEET C1.2



LEGEND

- PROPERTY LINE
- PARCEL LINE
- EX. GAS LINE
- EX. SANITARY SEWER LINE
- EX. ELECTRIC LINE
- EX. WATER LINE
- EX. STORM SEWER
- DEMO EXISTING UTILITY
- DEMO EXISTING ASPHALT PAVEMENT
- DEMO EXISTING ROADWAY STRIPING
- DEMO EXISTING CURB AND GUTTER
- PROPOSED SAWCUT LINE

GENERAL NOTES

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- EX. ELECTRIC LINE
- EX. GAS LINE
- EX. 12" WATER MAIN
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- EX. SANITARY SEWER MANHOLE
- EX. 30" PVC SANITARY SEWER
- EX. STORM SEWER INLET
- EX. 30" CMP STORM SEWER CULVERT
- EX. FIRE HYDRANT
- EX. TREES
- EX. IRRIGATION CONTROL
- EX. TRAFFIC SIGNAL
- EX. 36" RCP STORM SEWER

DEMO/RELOCATE

- DEMO 8" PVC SANITARY SEWER LINE
- DEMO SANITARY SEWER MANHOLE
- DEMO CONSTRUCTION FENCE
- DEMO STORM SEWER INLET
- DEMO 36" RCP STORM SEWER LINE
- DEMO 12" PVC WATER LINE
- DEMO WATER VALVE
- DEMO EXISTING CURB AND GUTTER
- RELOCATE EXISTING ELECTRIC VAULT

Kimley»Horn

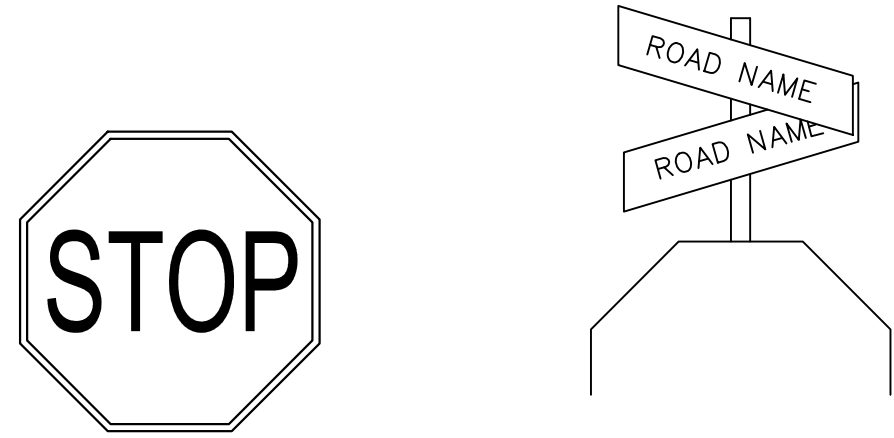
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
EXISTING CONDITIONS AND DEMO PLAN



PROJECT NO.
096956009

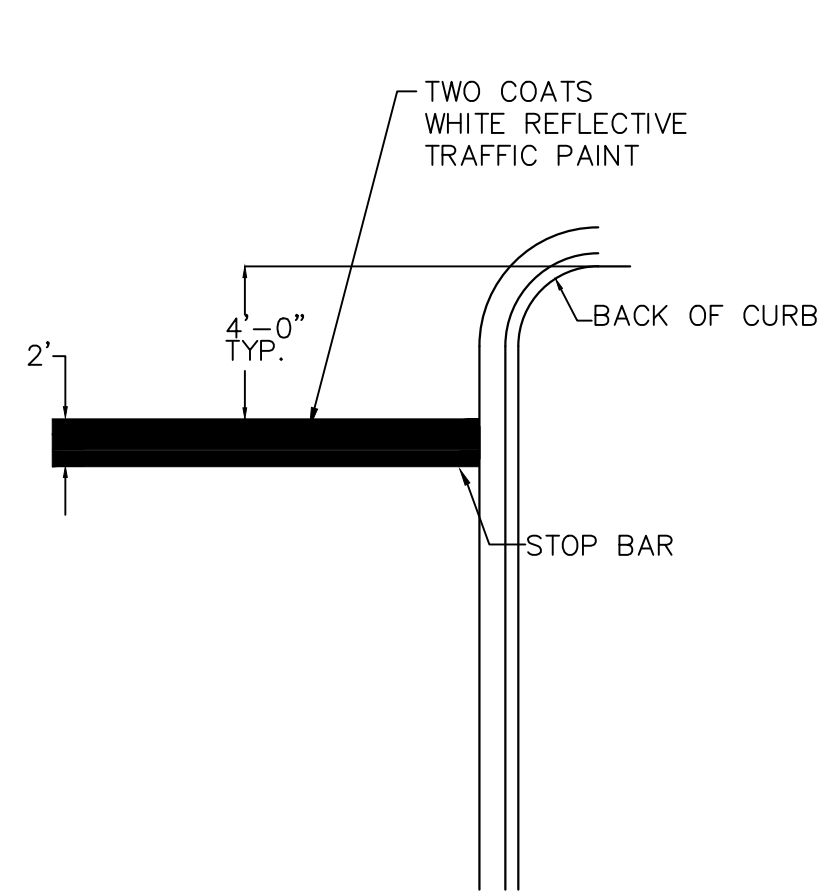
SHEET
C1.3



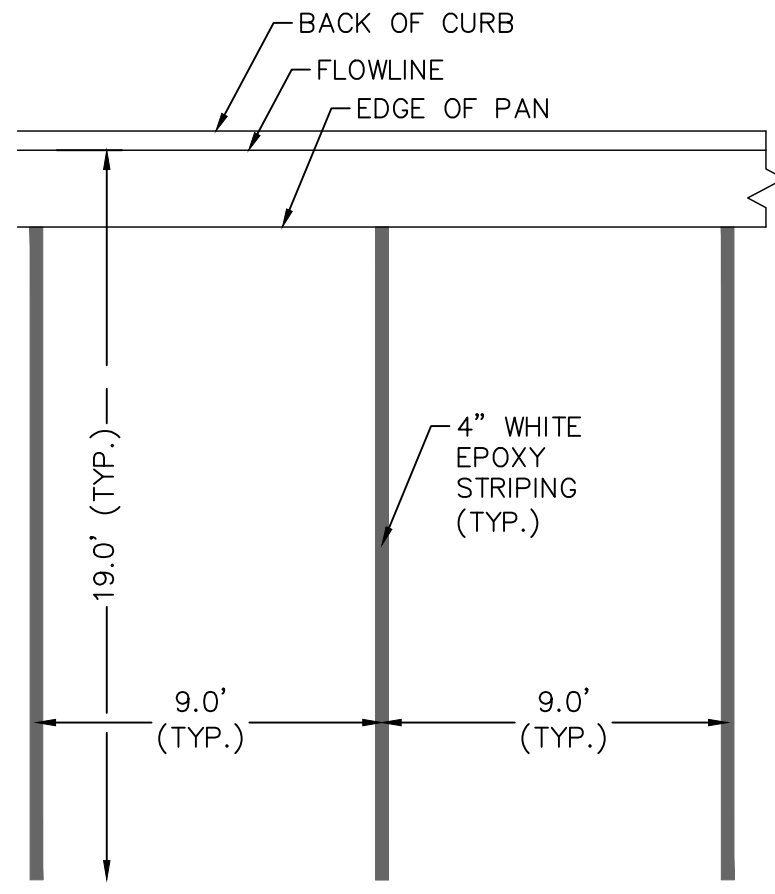
30"x30"
MINIMUM SIZE

BACKGROUND
4090 (3M-WHITE DIAMOND GRADE) OR EQUIVALENT
FOREGROUND
1172 C (3M-RED EC FILM) OR EQUIVALENT

MUTCD R1-1 STOP SIGN DETAIL
NOT TO SCALE



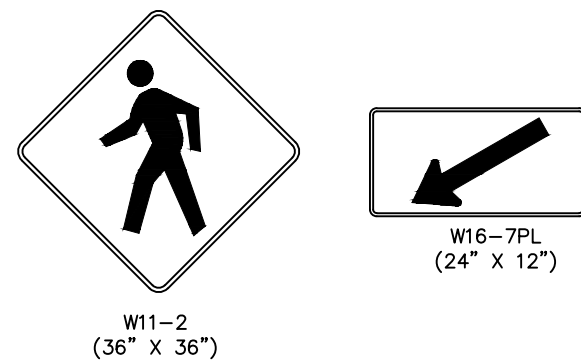
STOP BAR DETAIL
NOT TO SCALE



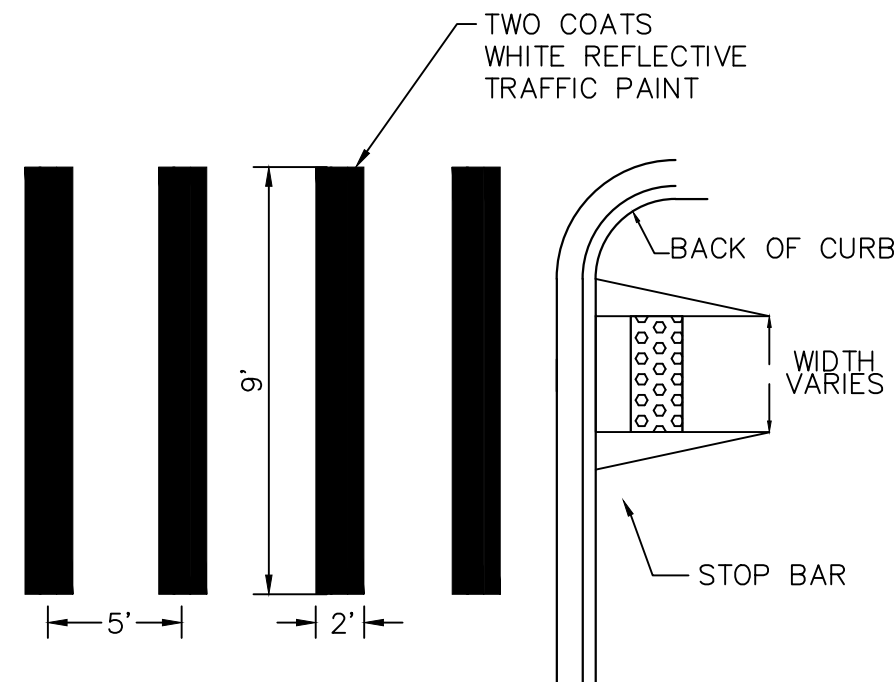
STANDARD PARKING STALL
STRIPING DETAIL
NOT TO SCALE



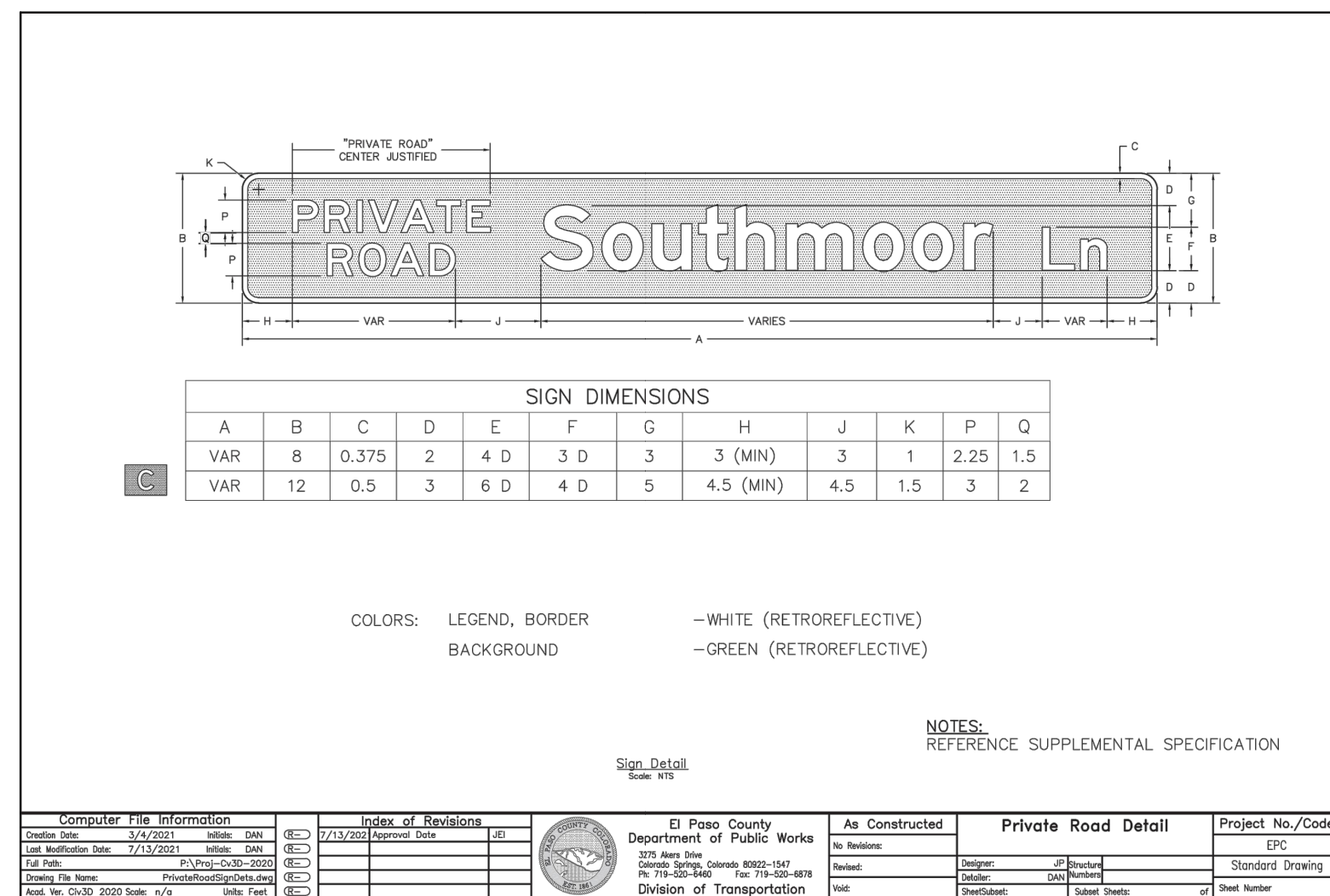
FIRE LANE STRIPING DETAIL
NOT TO SCALE



MUTCD W11-2 PEDESTRIAN SIGN WITH
W1-7PL DIRECTIONAL ARROW SIGN DETAIL
NOT TO SCALE

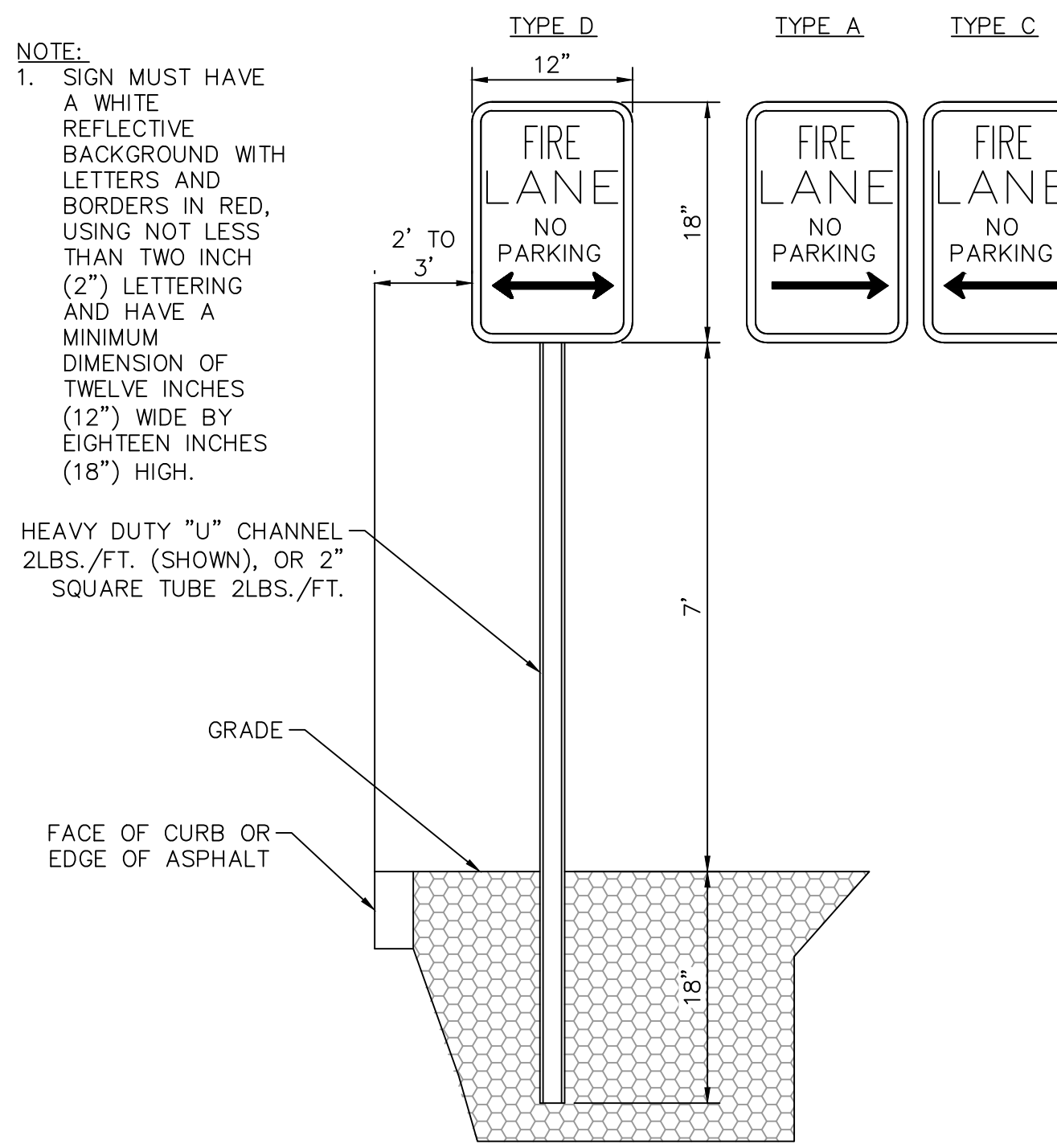


PEDESTRIAN CROSS WALK DETAIL
NOT TO SCALE

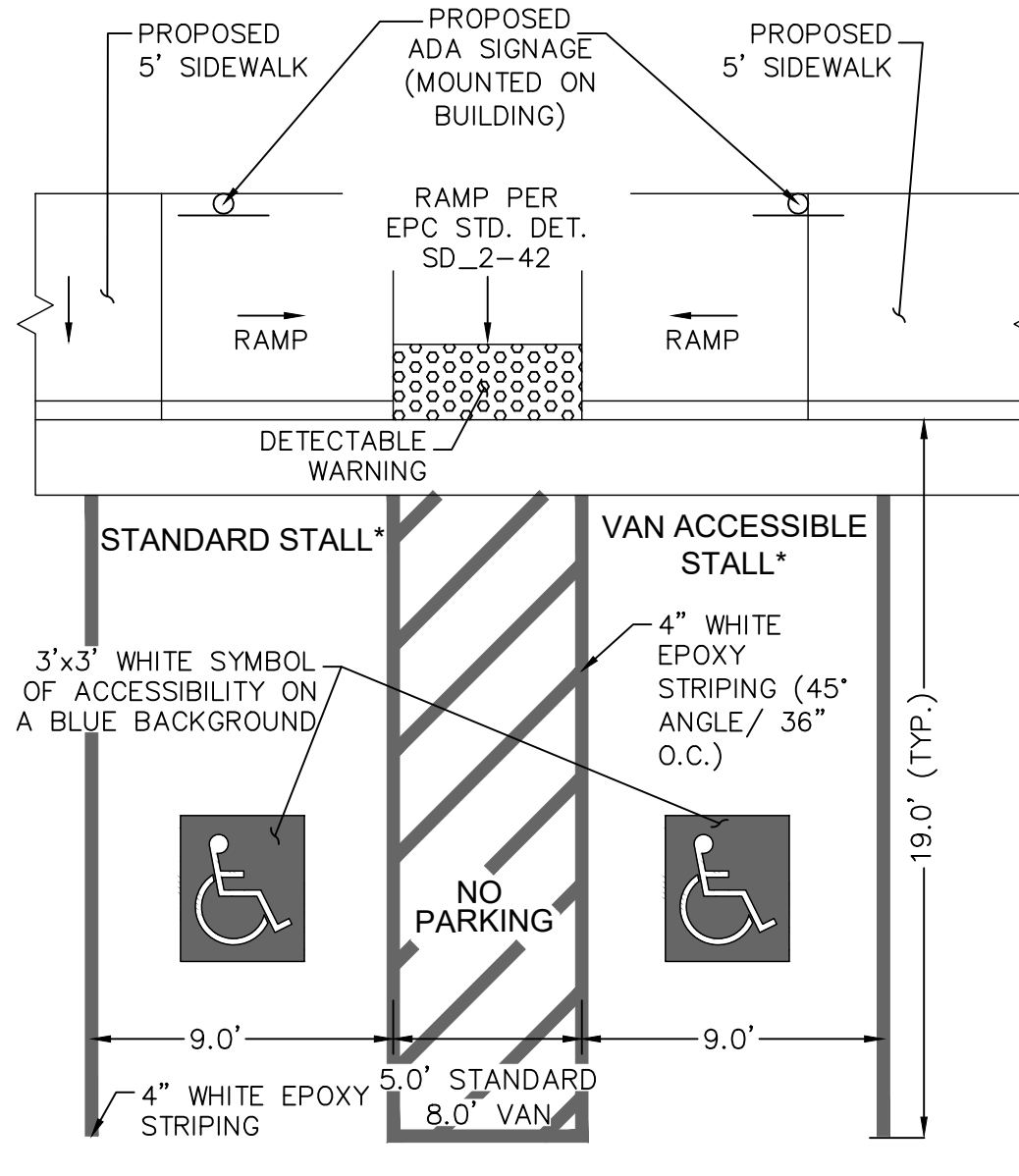


PRIVATE ROADWAY SIGN DETAIL
NOT TO SCALE (PER EPC STD DTL)

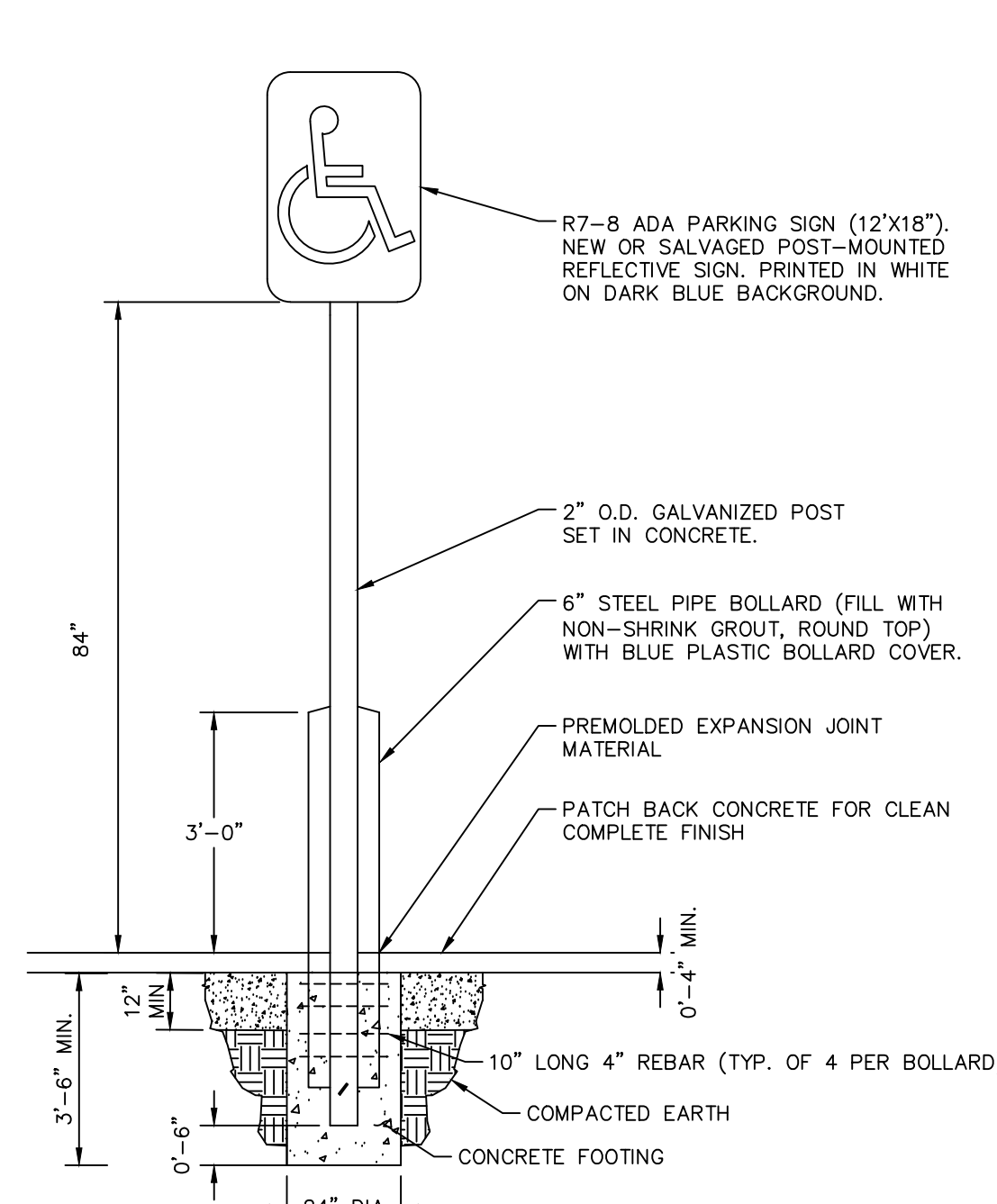
REF. CIMARRON HILLS FIRE DEPT. LANE MARKING REQUIREMENTS



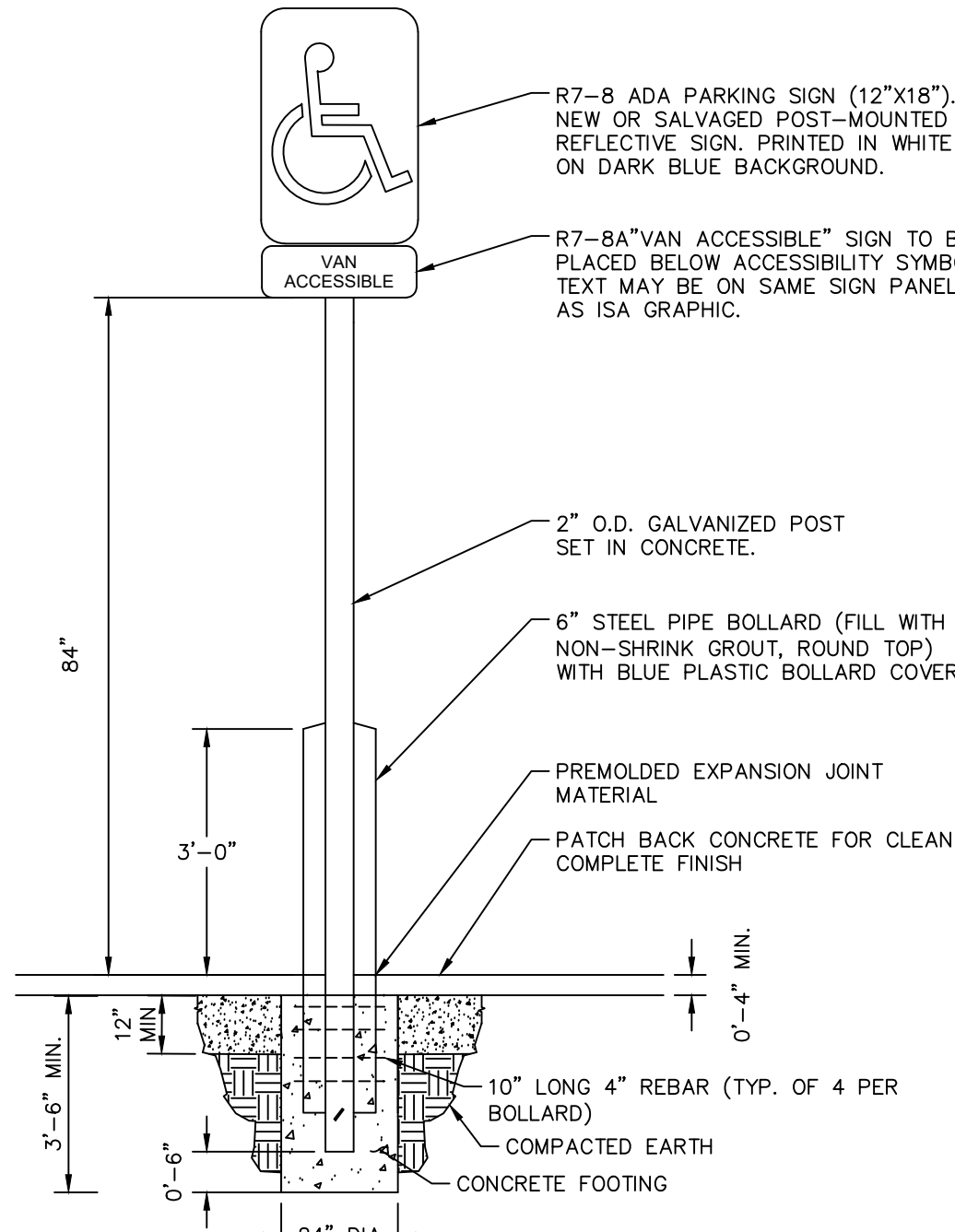
FIRE LANE SIGNAGE DETAIL
NOT TO SCALE
REF. CIMARRON HILLS FIRE DEPT. LANE MARKING REQUIREMENTS



ADA PARKING STALL STRIPING DETAIL
NOT TO SCALE



ADA PARKING STALL SIGNAGE DETAIL
NOT TO SCALE



ADA PARKING STALL SIGNAGE DETAIL
NOT TO SCALE

NO.

BY

DATE

APPR.

REVISION

NO.

Kimley»Horn

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KK

DRAWN BY: KK

CHECKED BY: JH

DATE: 06/06/2022

MEADOWBROOK PARK

EL PASO COUNTY, COLORADO

CONSTRUCTION DOCUMENTS

SIGNING AND STRIPING DETAILS

COLORADO REGISTERED PROFESSIONAL ENGINEER

50096

04/21/2022

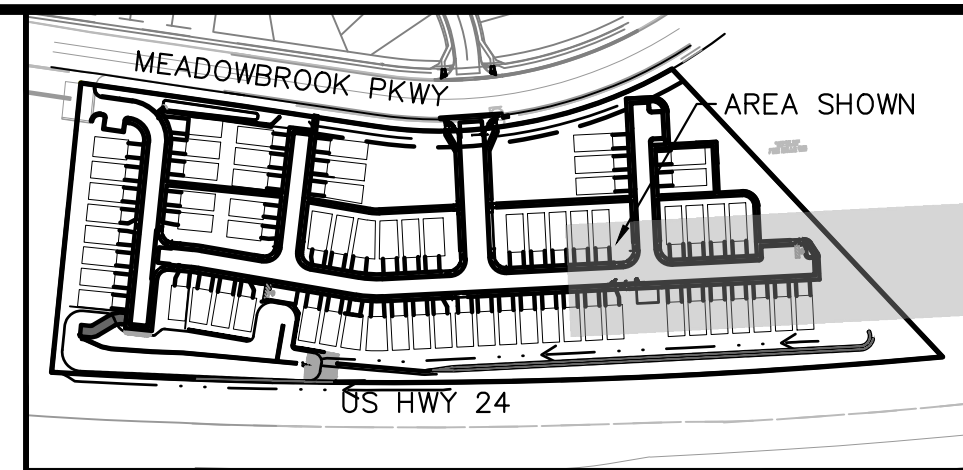
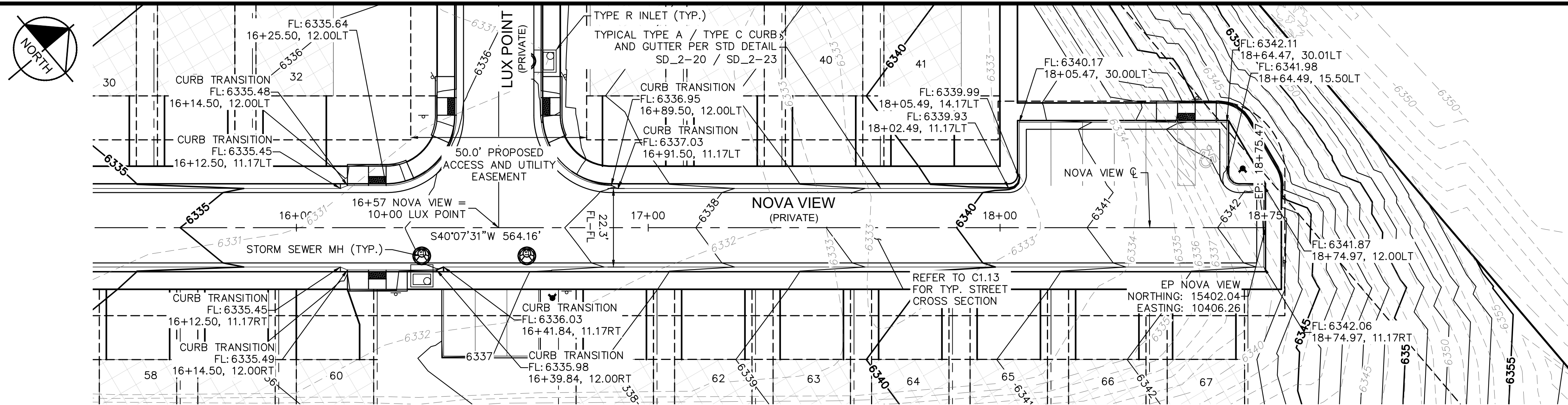
PROJECT NO.

096956009

SHEET

C1.6

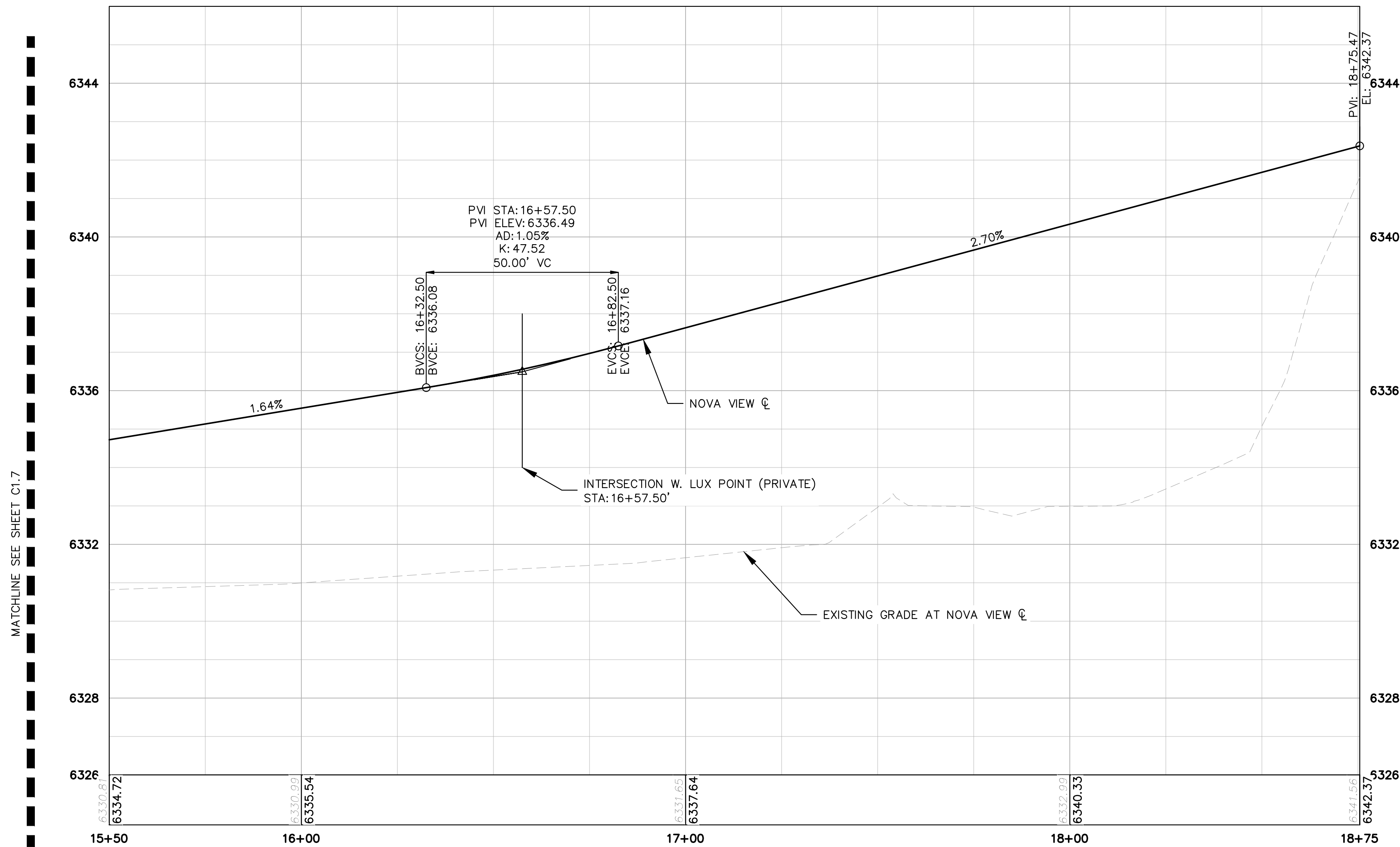
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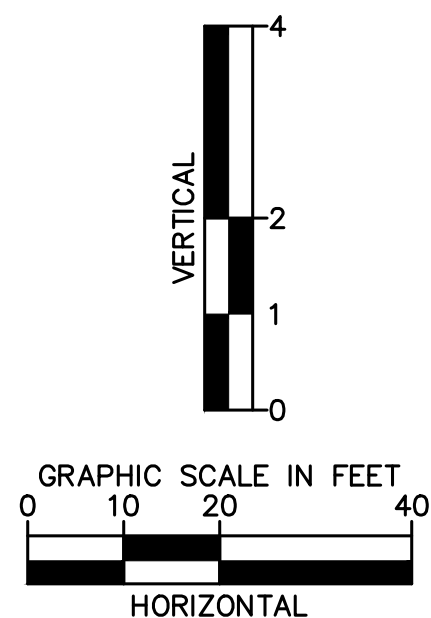
KEYMAP
SCALE: 1" = 250'

LEGEND

- PROPERTY LINE
- 200' SETBACK LINE
- LIMITS OF DISTURBANCE
- 64XX PROPOSED MAJOR CONTOUR
- 64XX PROPOSED MINOR CONTOUR
- 64XX EXISTING MAJOR CONTOUR
- 64XX EXISTING MINOR CONTOUR
- 2.50% PROPOSED SLOPE ARROW
- STORM SEWER PIPE
- STORM SEWER CURB INLET
- STORM SEWER FLARED END SECTION
- STORM SEWER MANHOLE



NOVA VIEW
STA. 15+50 - 18+75



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CHECKED BY: JH
DATE: 06/06/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
NOVA VIEW ROADWAY PLAN AND PROFILE



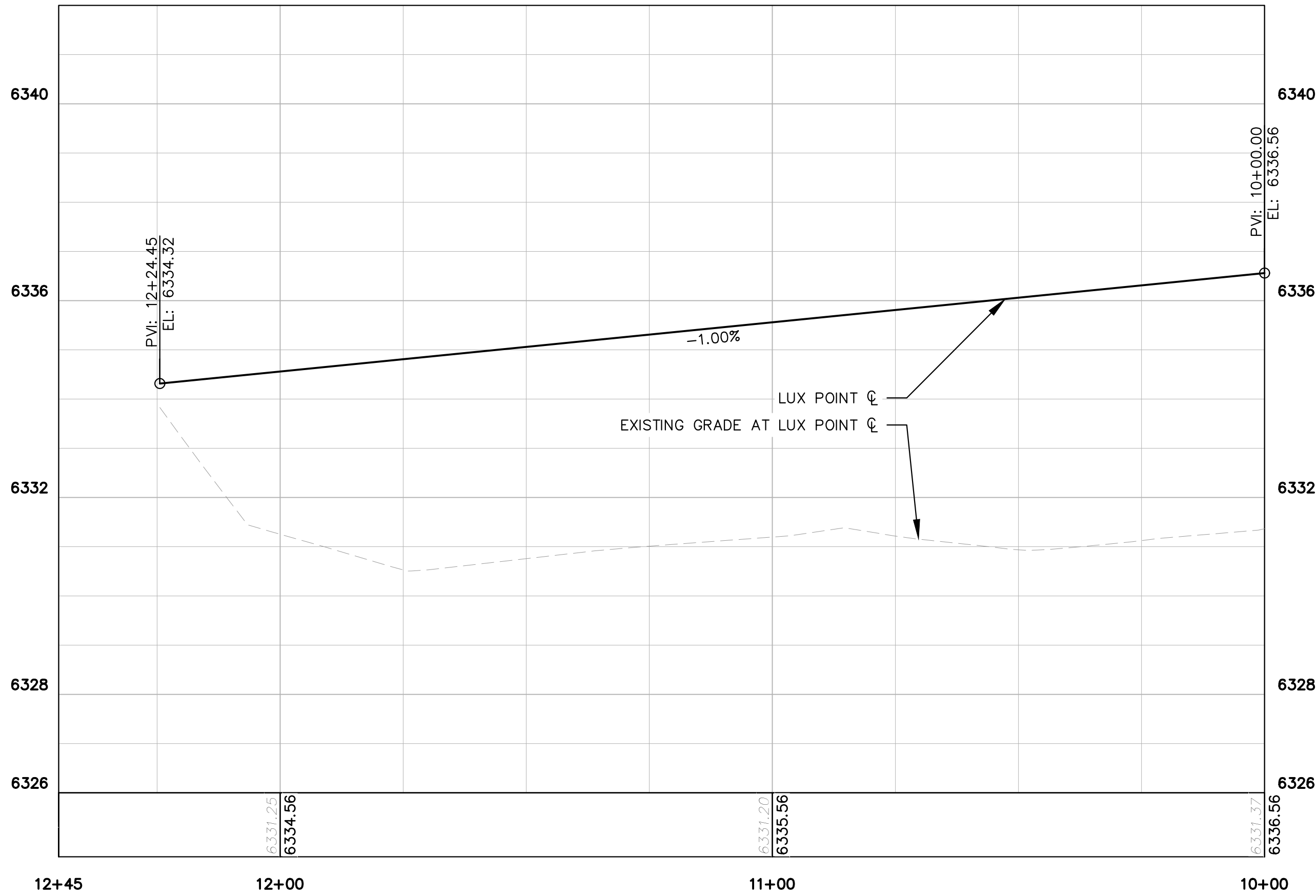
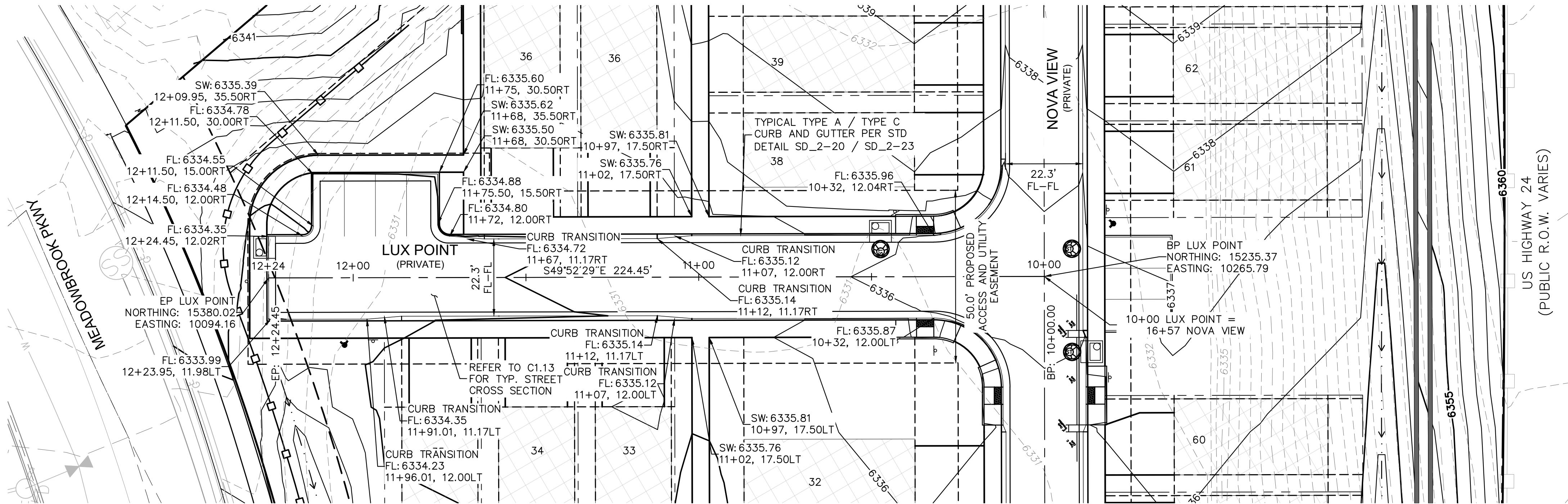
PROJECT NO.
096956009

SHEET

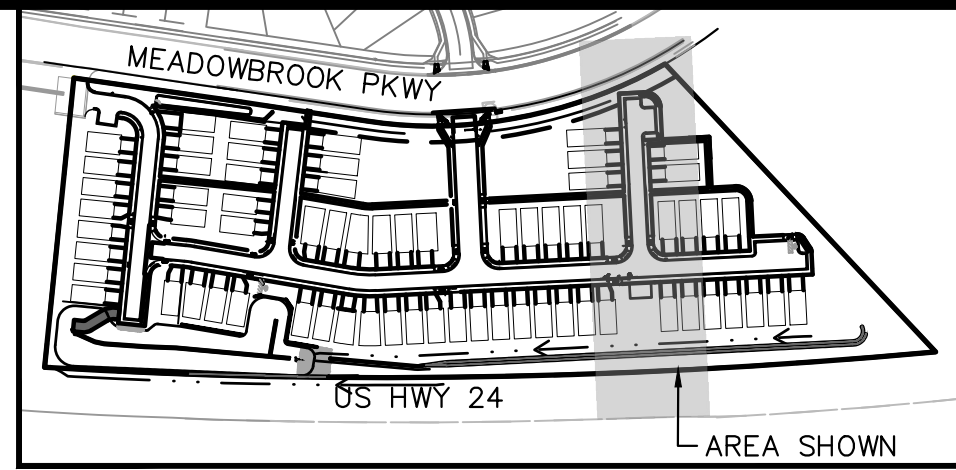
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EPC 7/18/22

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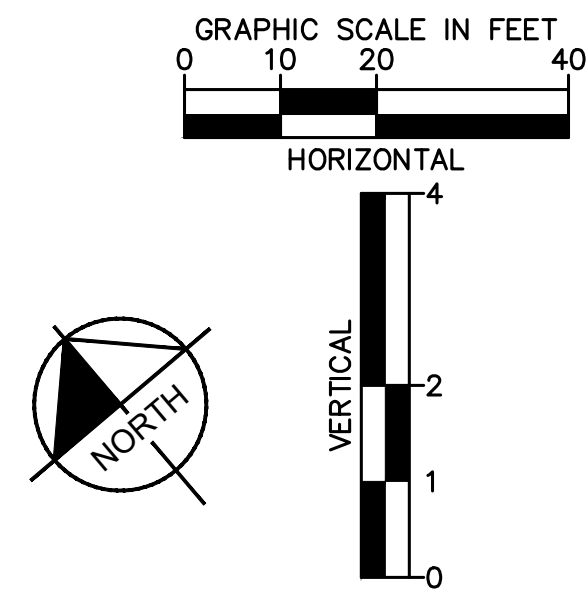
LUX POINT
STA. 10+00 - 12+15



KEYMAP
SCALE: 1" = 250'

LEGEND

- PROPERTY LINE
- 200' SETBACK LINE
- LIMITS OF DISTURBANCE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED SLOPE ARROW
- STORM SEWER PIPE
- STORM SEWER CURB INLET
- STORM SEWER FLARED END SECTION
- STORM SEWER MANHOLE



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MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
LUX POINT ROADWAY PLAN AND PROFILE



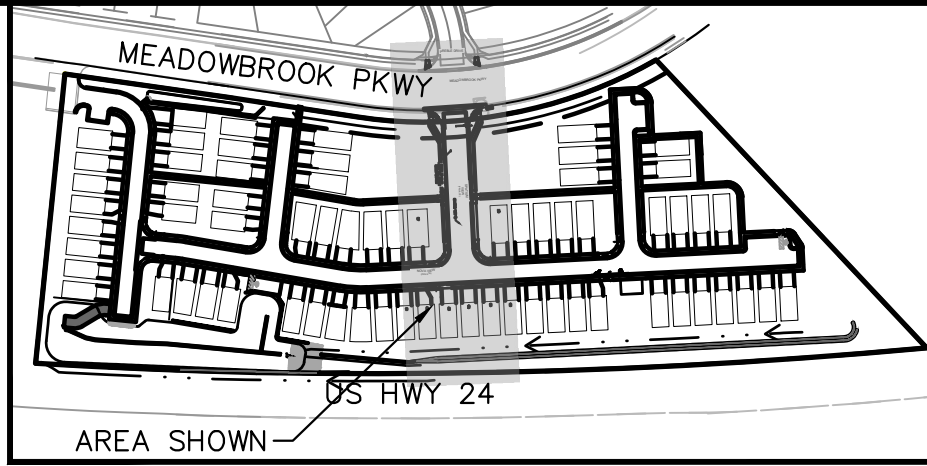
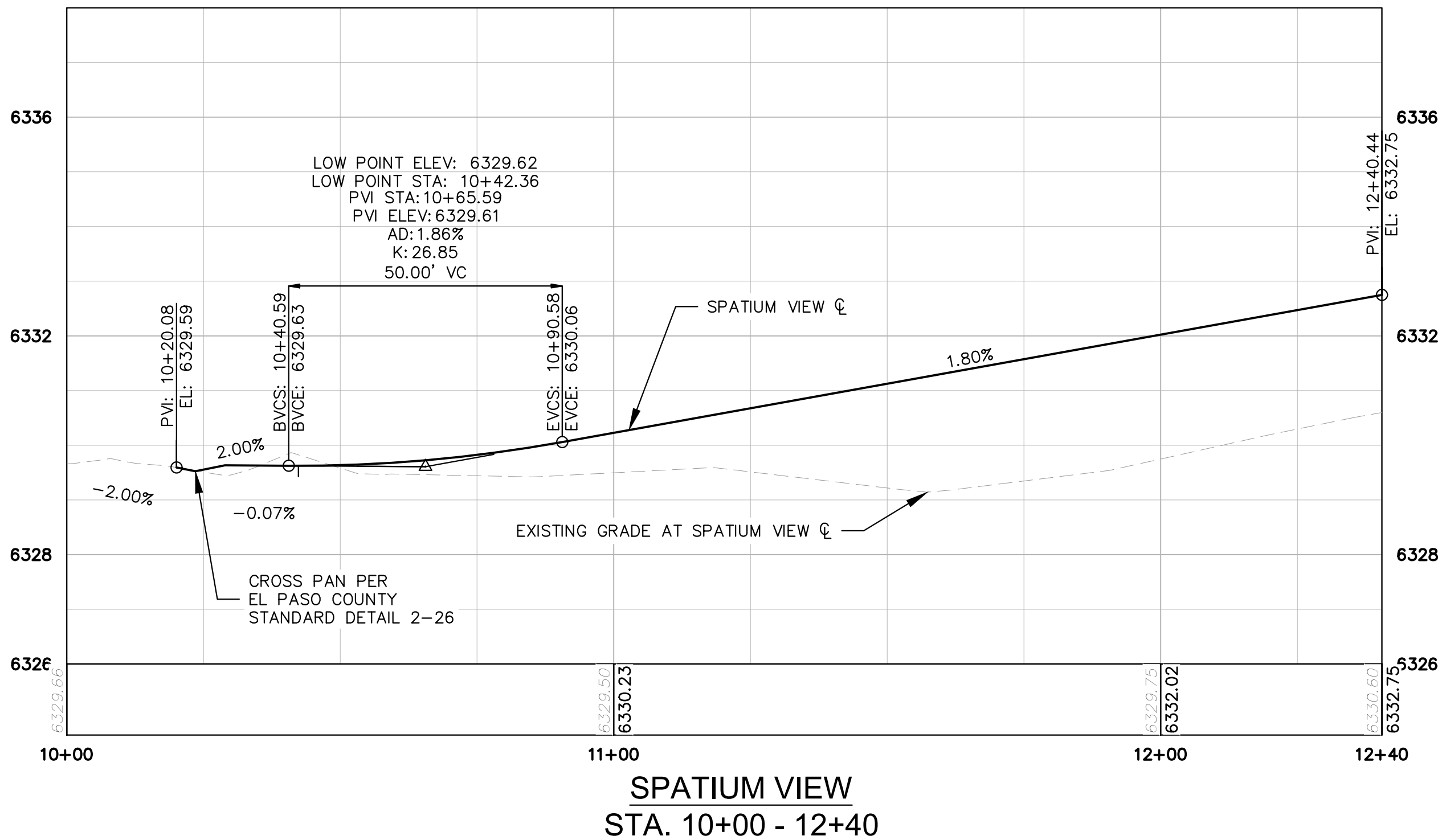
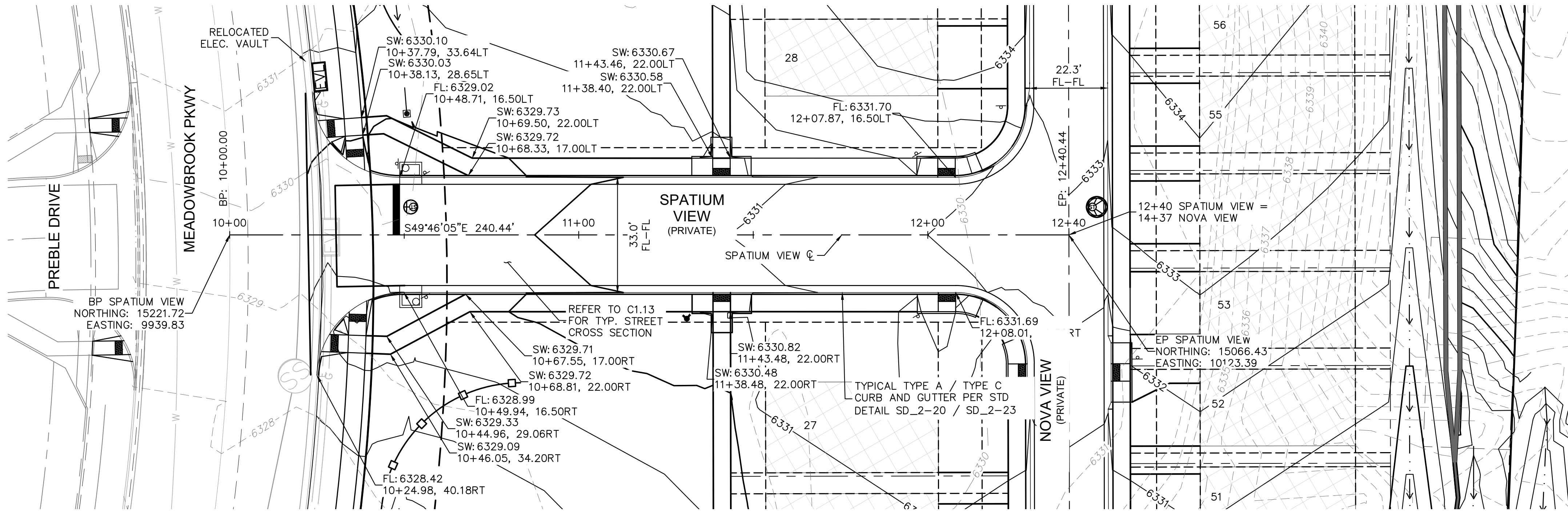
PROJECT NO.
096956009

SHEET

C1.9

EPC 7/18/22

M



KEYMAP
SCALE: 1" = 250'

LEGEND

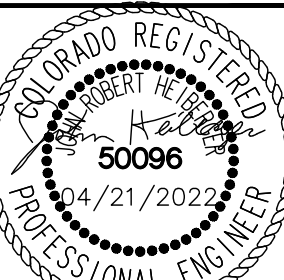
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|--|--------------------------------|
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| | 200' SETBACK LINE |
| | LIMITS OF DISTURBANCE |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | PROPOSED SLOPE ARROW |
| | STORM SEWER PIPE |
| | STORM SEWER CURB INLET |
| | STORM SEWER FLARED END SECTION |
| | STORM SEWER MANHOLE |

Kimley»»Horn

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Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KK
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CHECKED BY: JH
DATE: 06/06/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SPATIUM VIEW ROADWAY PLAN AND PROFILE

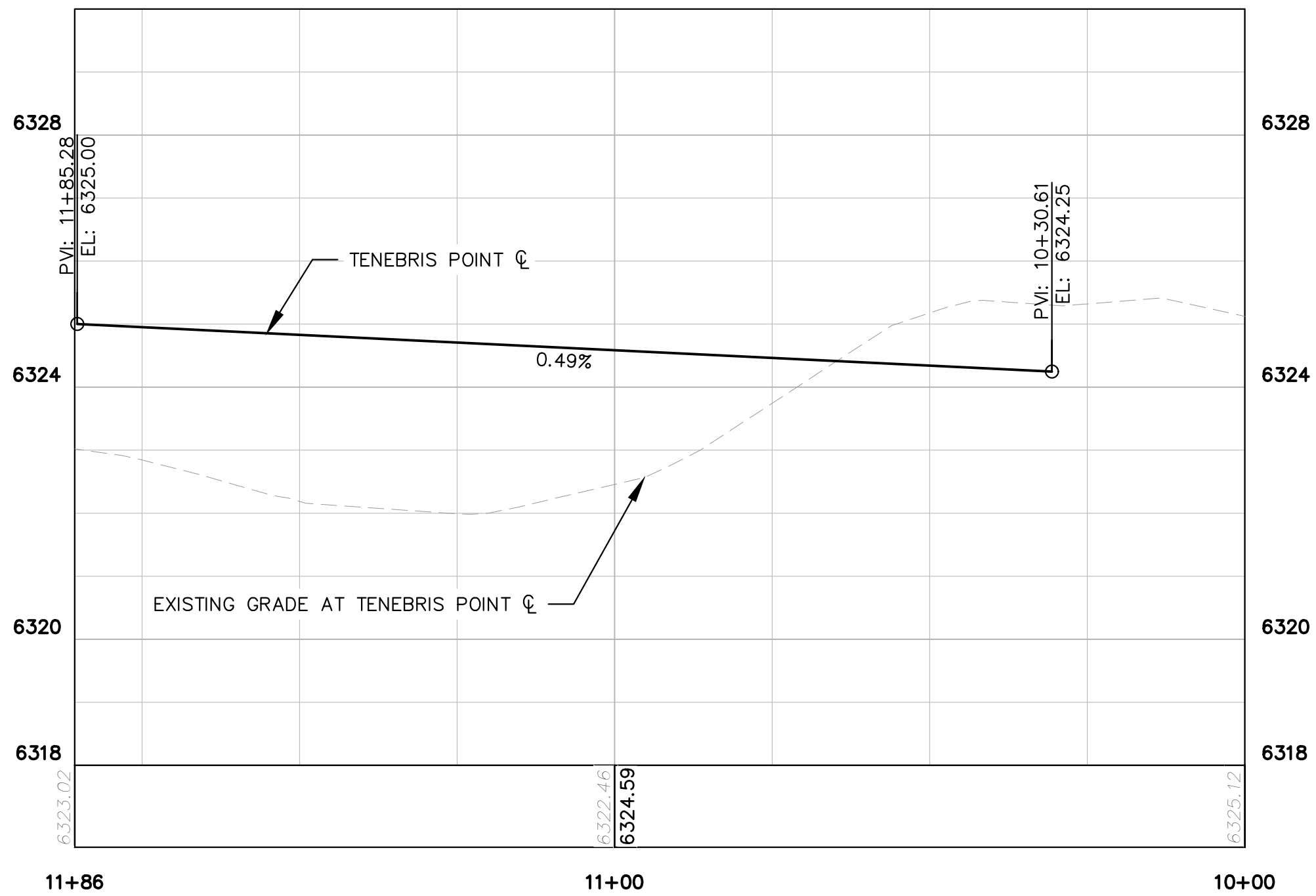
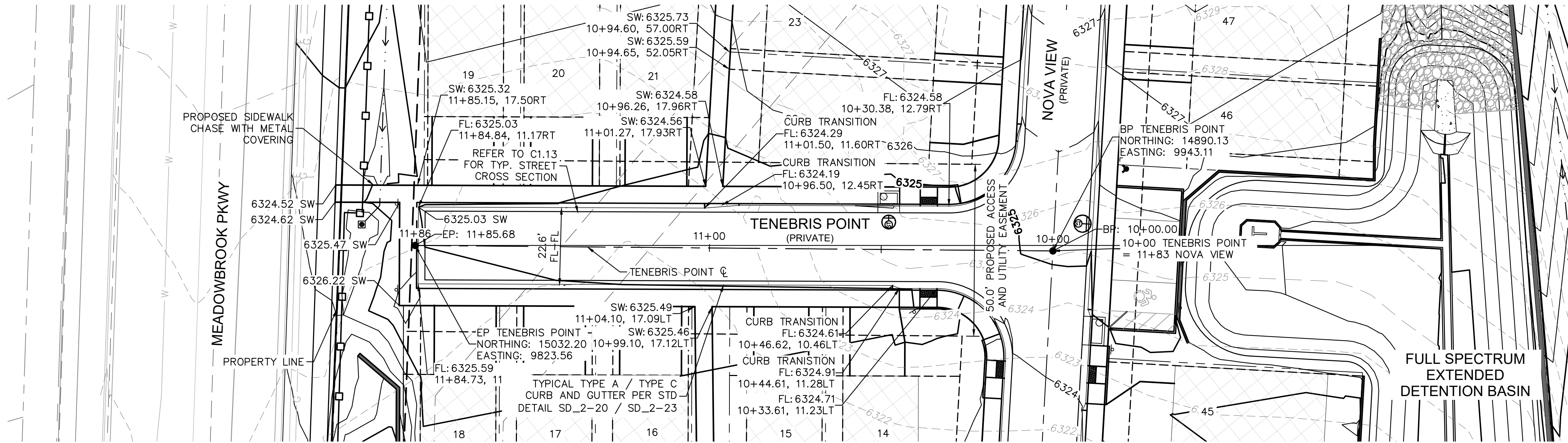


PROJECT NO
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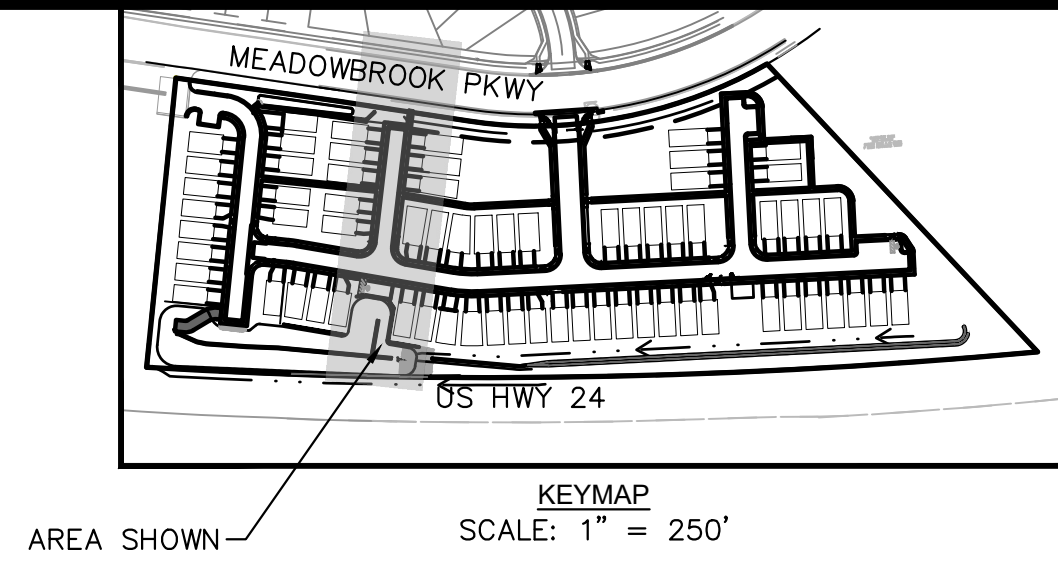
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C1.10








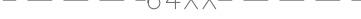




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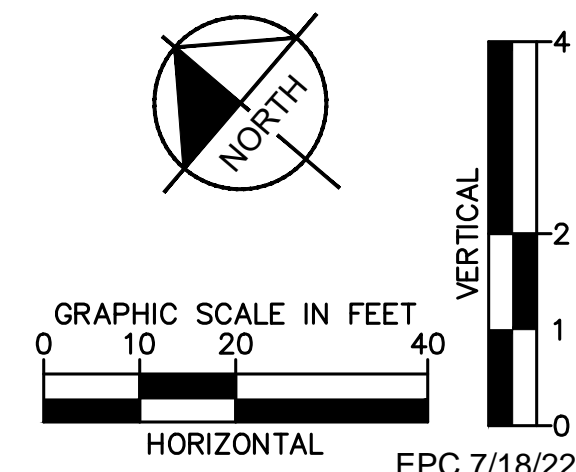


TENEBRIS POINT
STA. 10+00 - 11+86



LEGEND

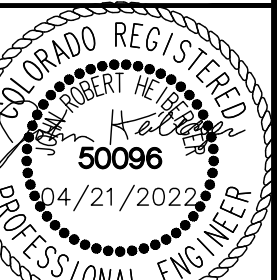
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|---|-----------------------------------|
|  | PROPERTY LINE |
|  | 200' SETBACK LINE |
|  | LIMITS OF DISTURBANCE |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | EXISTING MAJOR CONTOUR |
|  | EXISTING MINOR CONTOUR |
|  | PROPOSED SLOPE ARROW |
|  | STORM SEWER PIPE |
|  | STORM SEWER CURB INLET |
|  | STORM SEWER FLARED END
SECTION |
|  | STORM SEWER MANHOLE |



Kimley»Horn

22 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

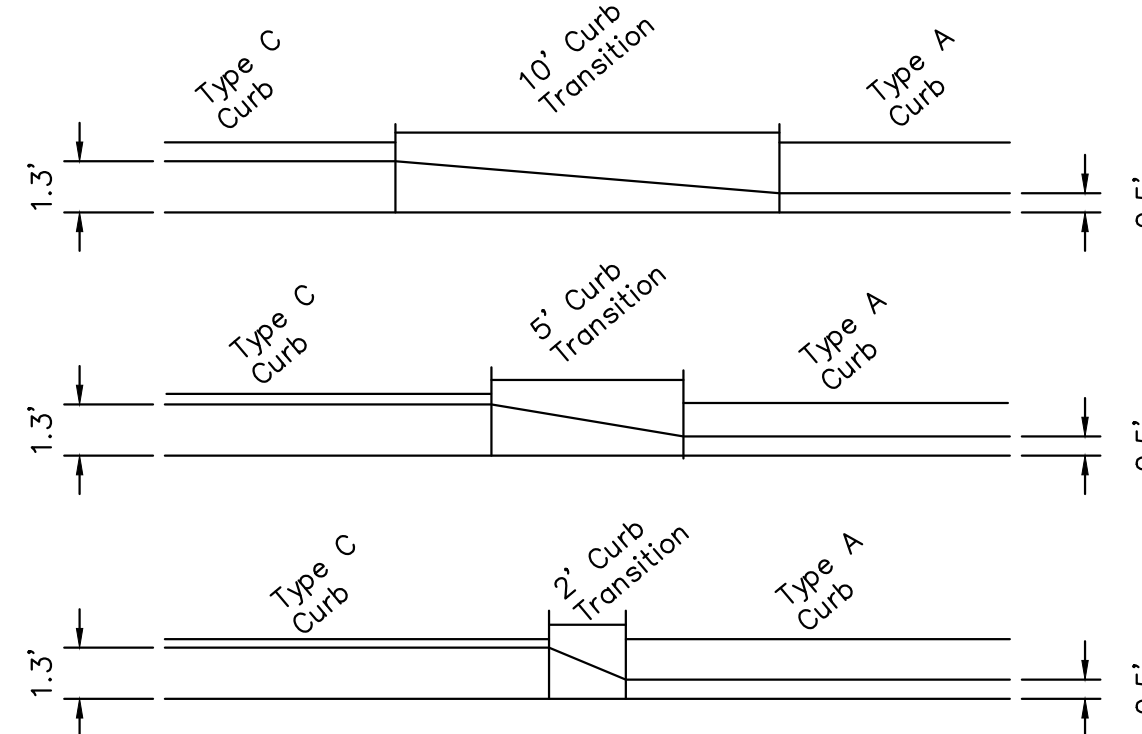
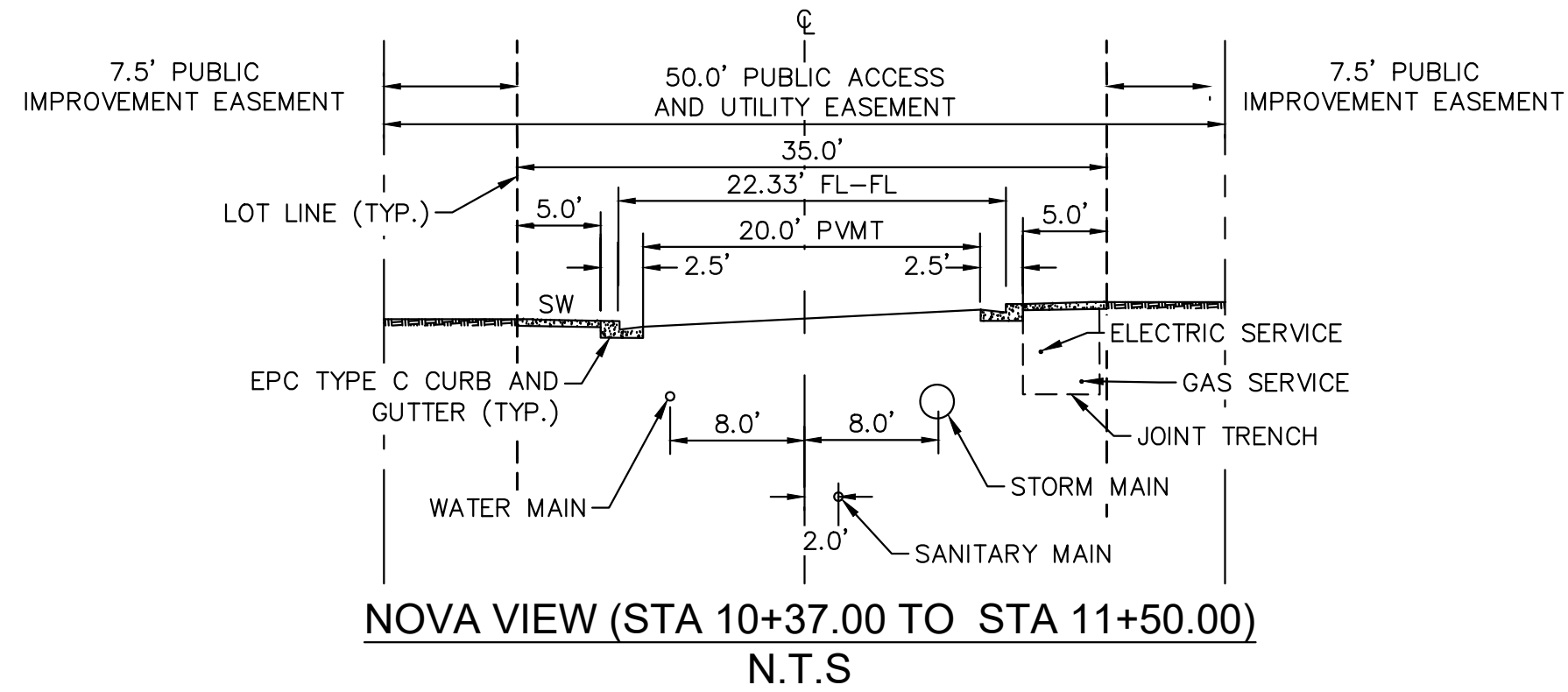
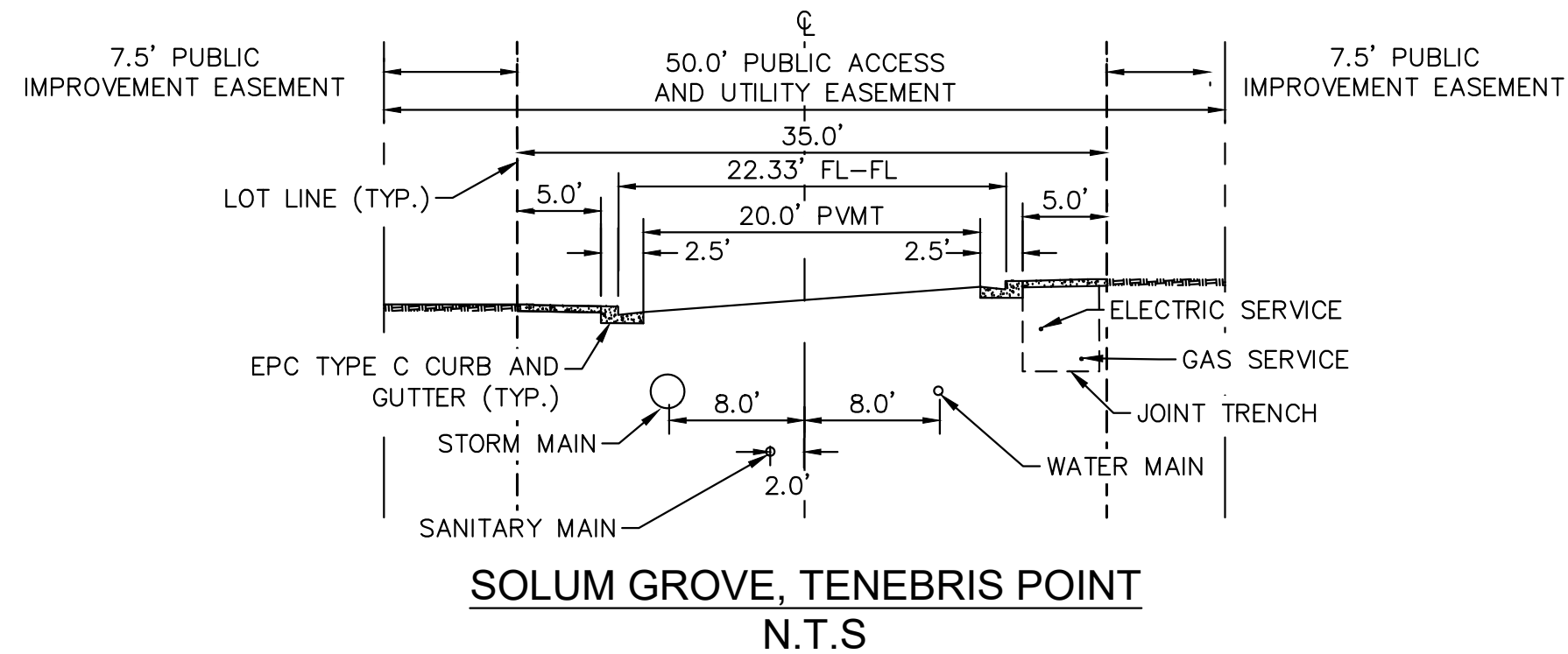
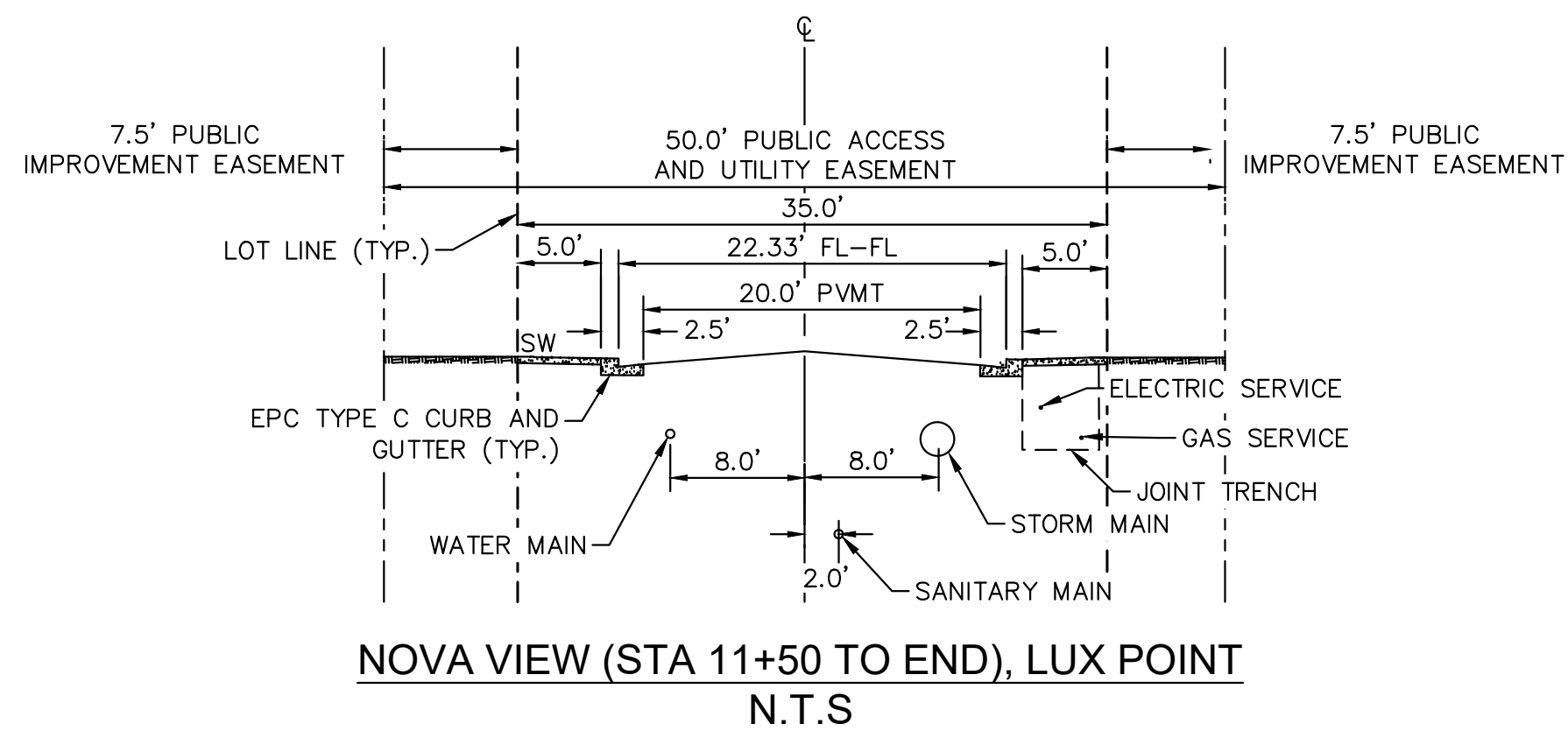
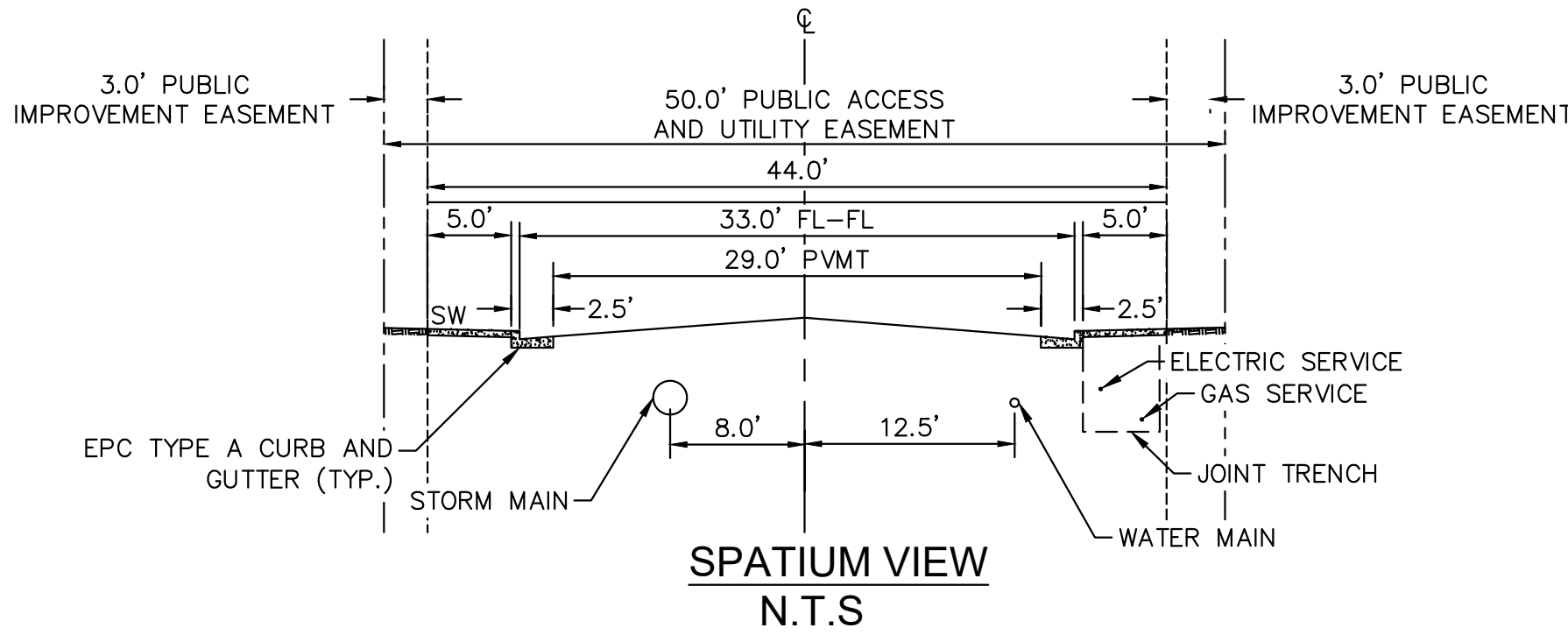
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DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TENEBRIS POINT ROADWAY PLAN AND PROFILE

PROJECT NO.
096956009

SHEET

C1.11



CURB TRANSITION DETAILS
(TYP.)

EPC 7/18/22

[illegible]

Kimley»»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

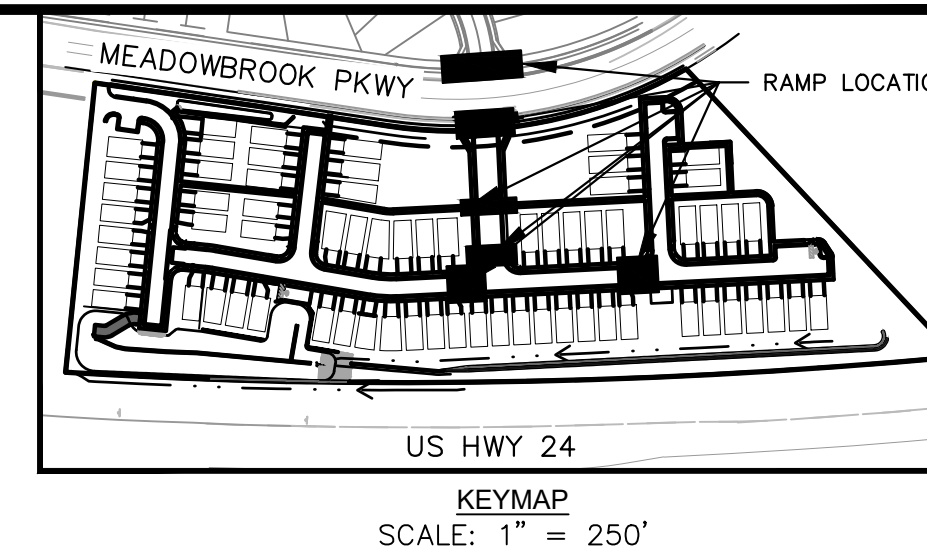
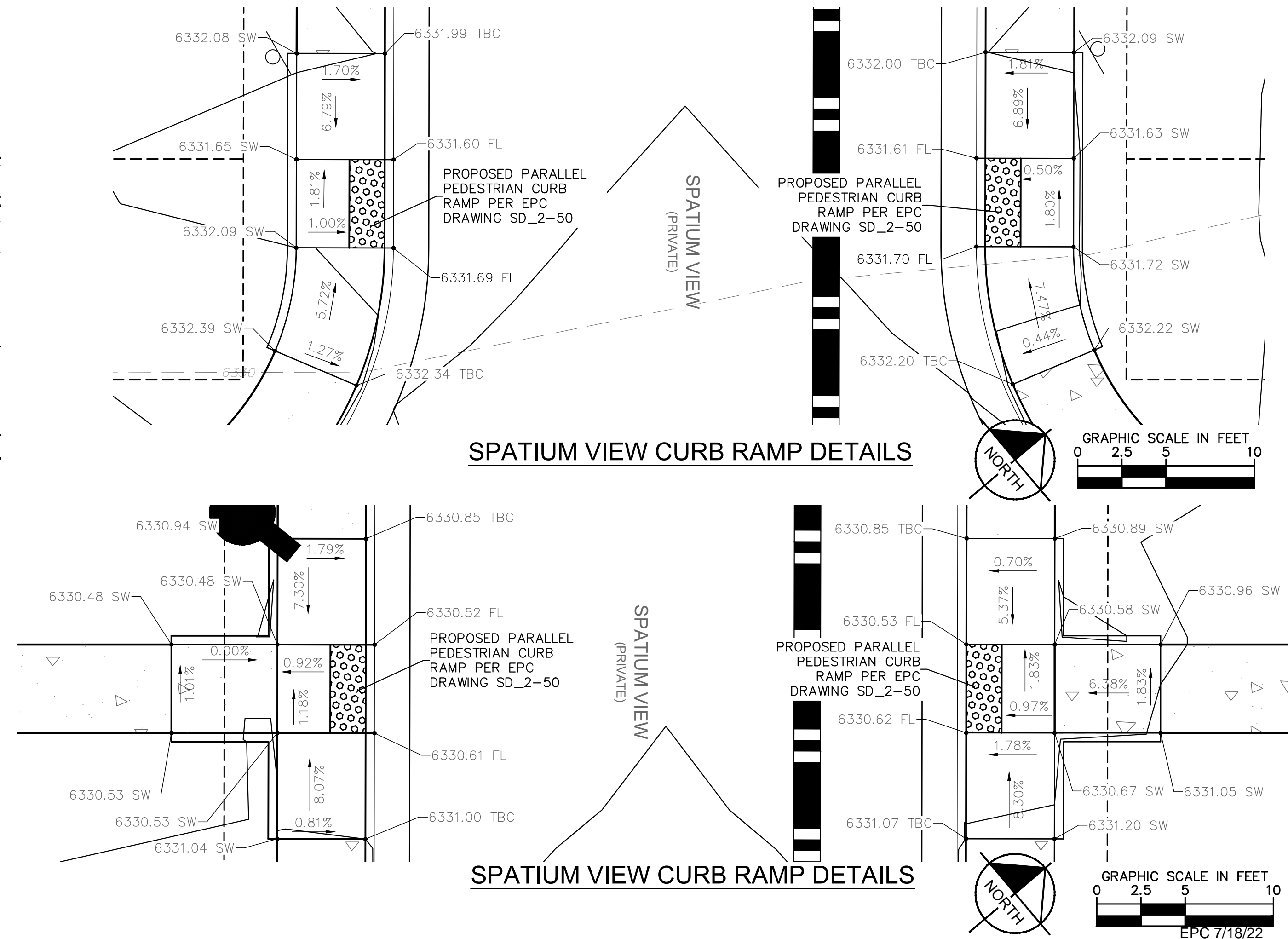
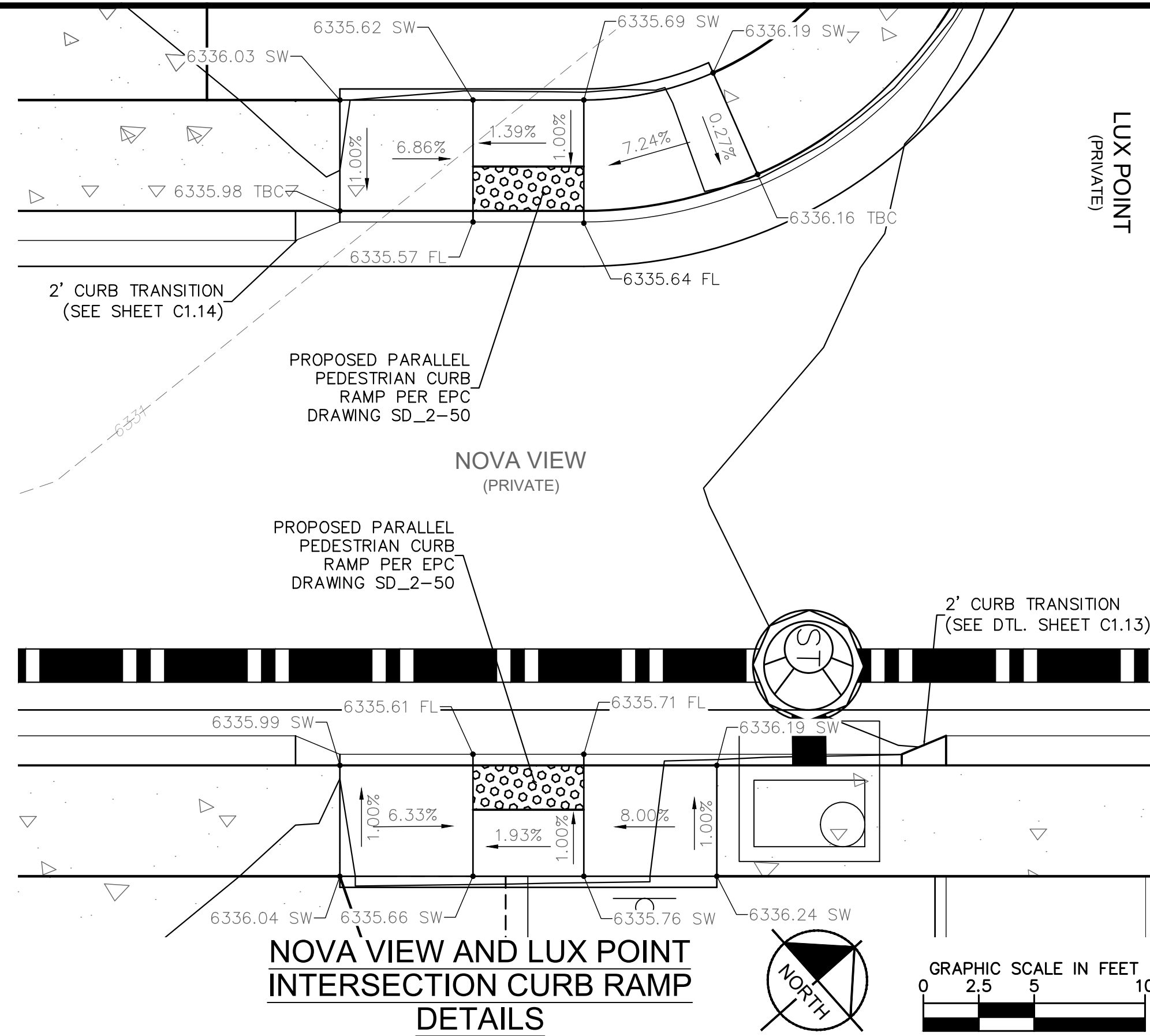
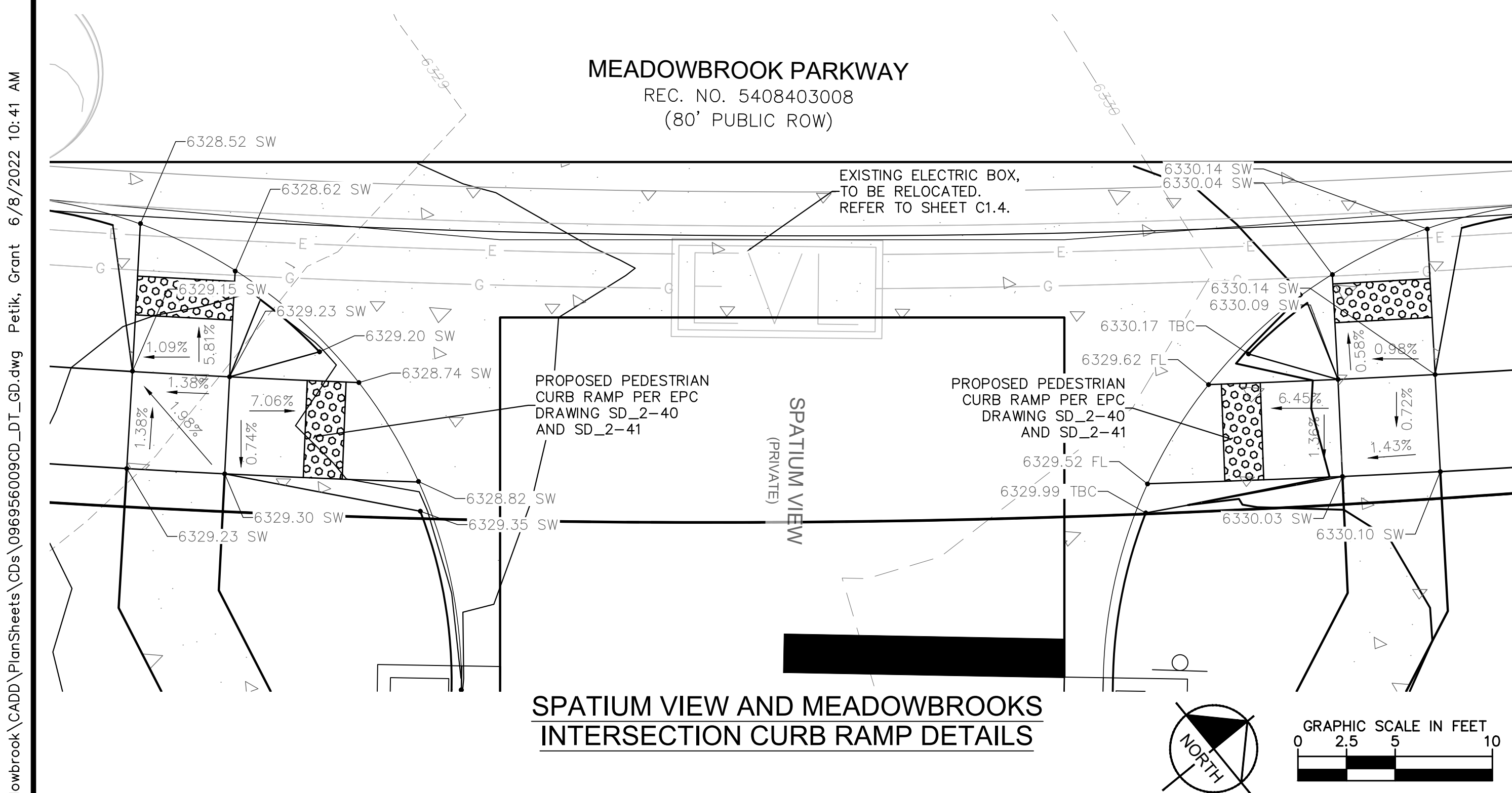
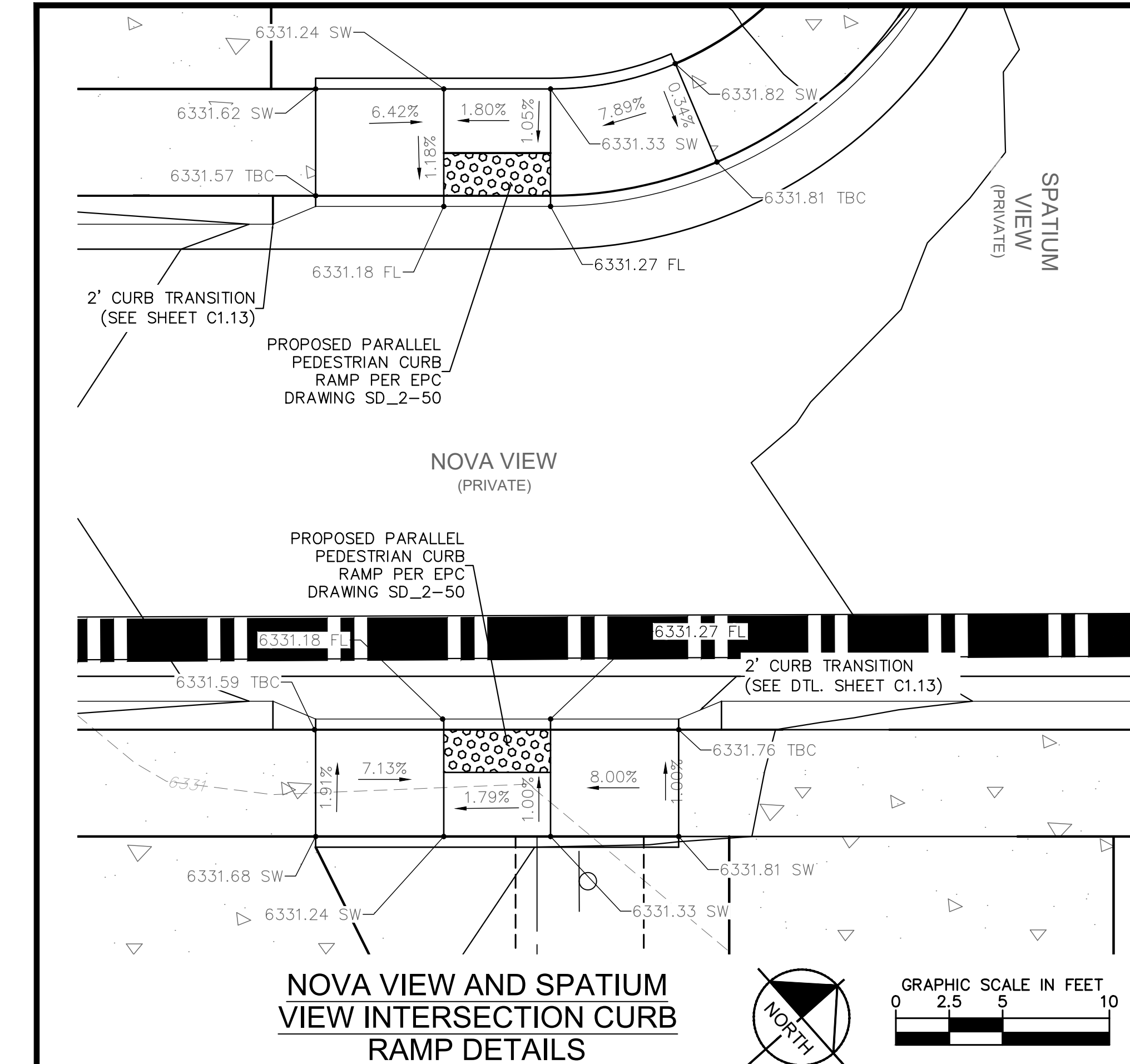
DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

**MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
STREET TYPICAL CROSS SECTIONS**



PROJECT NO.
096956009

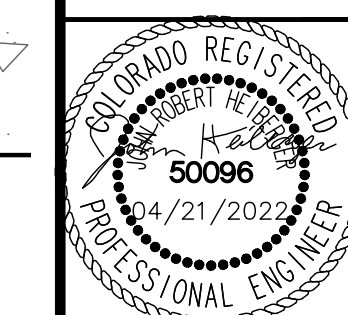
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C1.13

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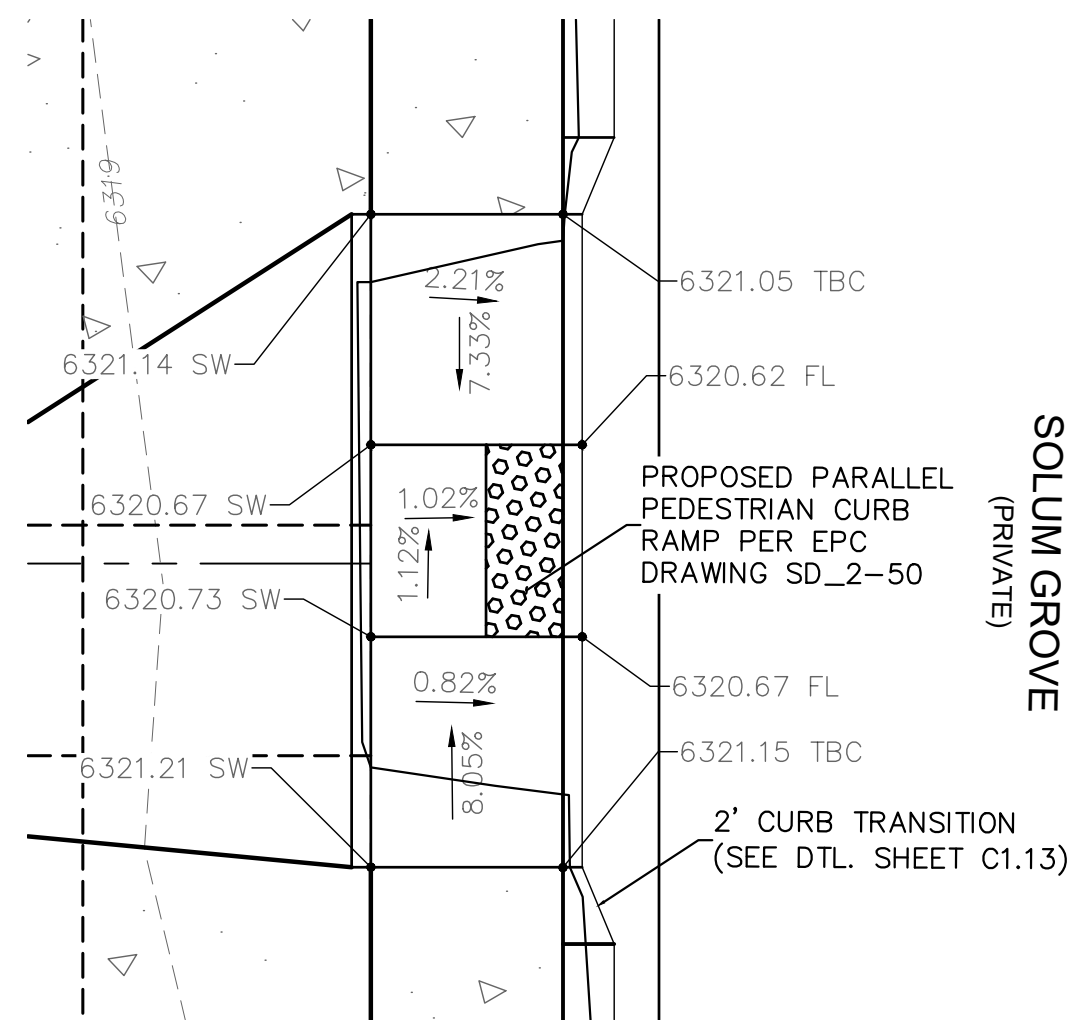
**MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
DETAILED GRADING PLAN**



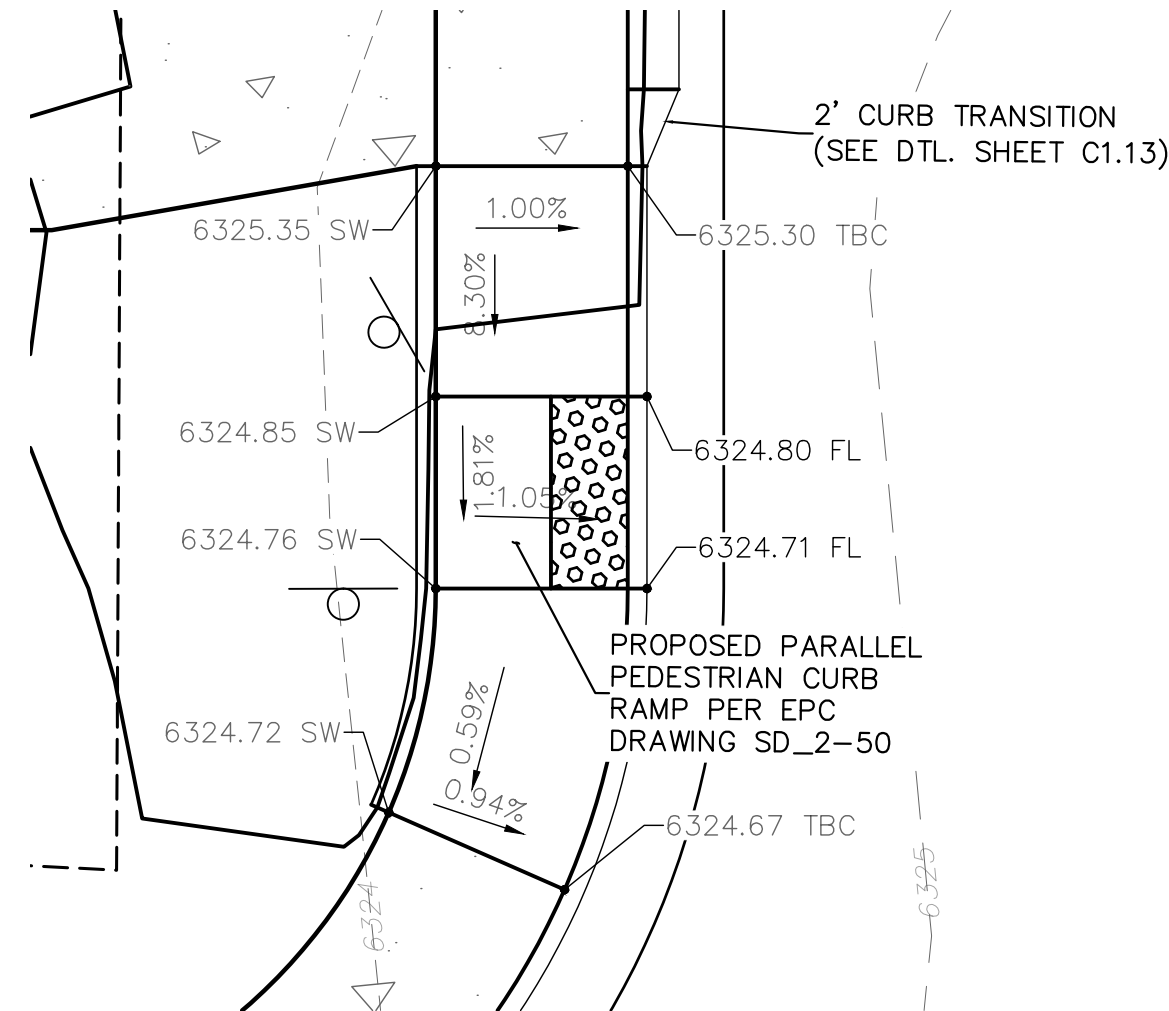
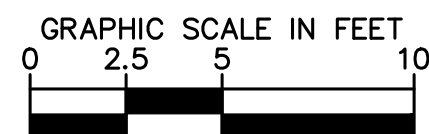
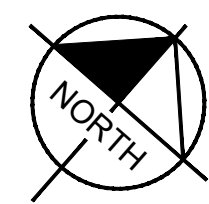
PROJECT NO.
096956009

SHEET
C1.14

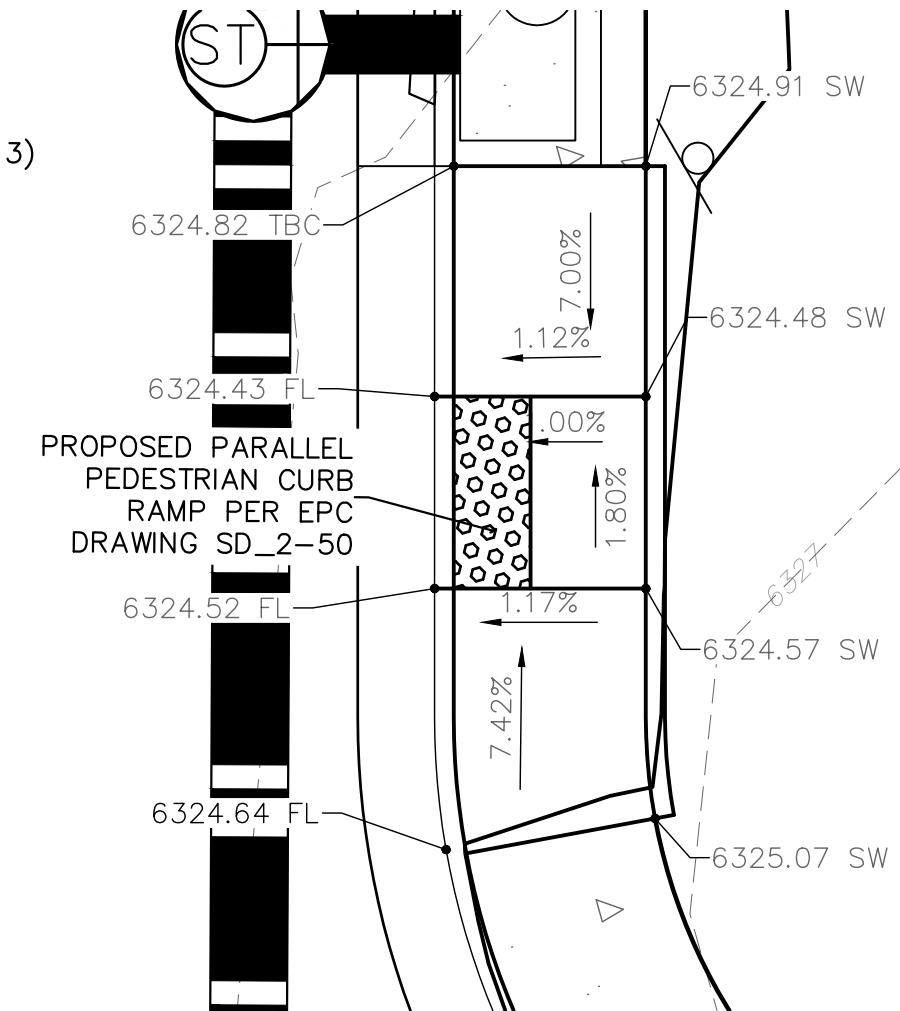
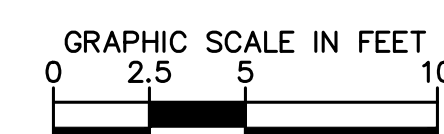
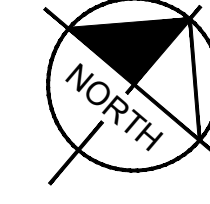
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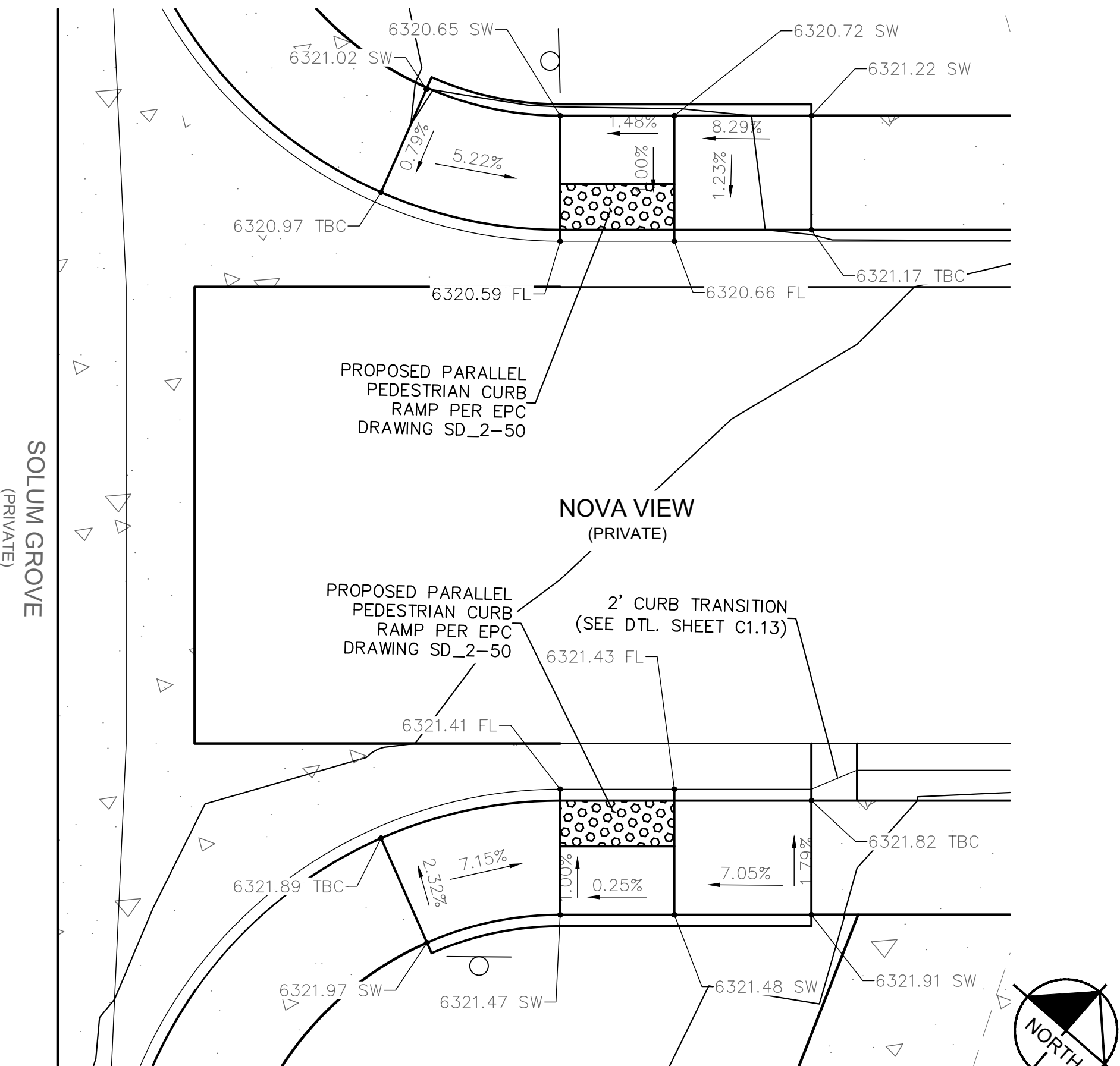
SOLUM GROVE CURB RAMP DETAILS



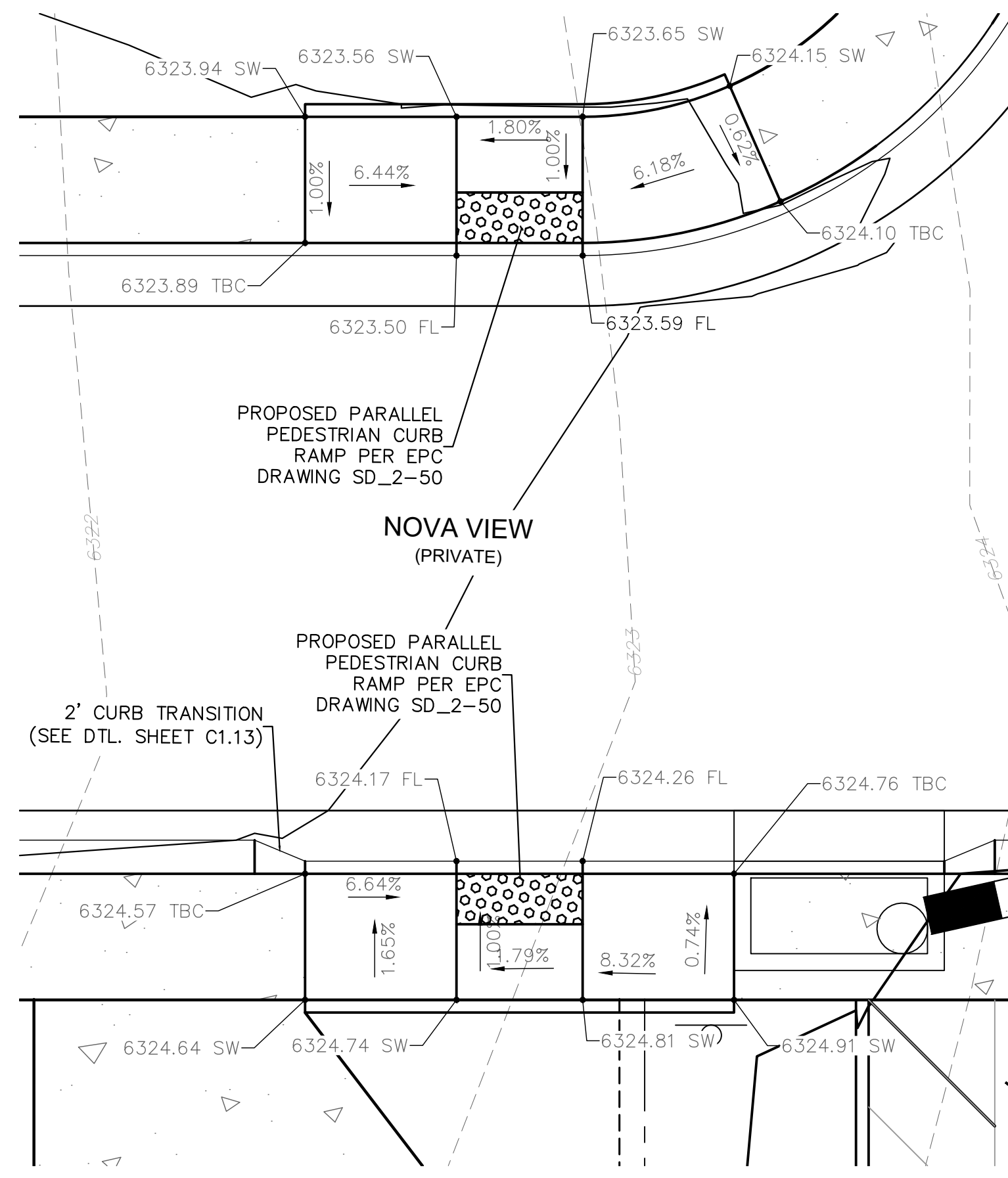
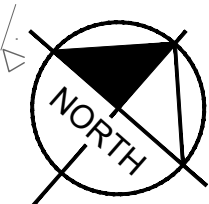
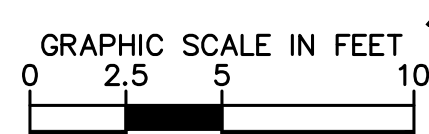
TENEBRIS POINT CURB RAMP DETAILS



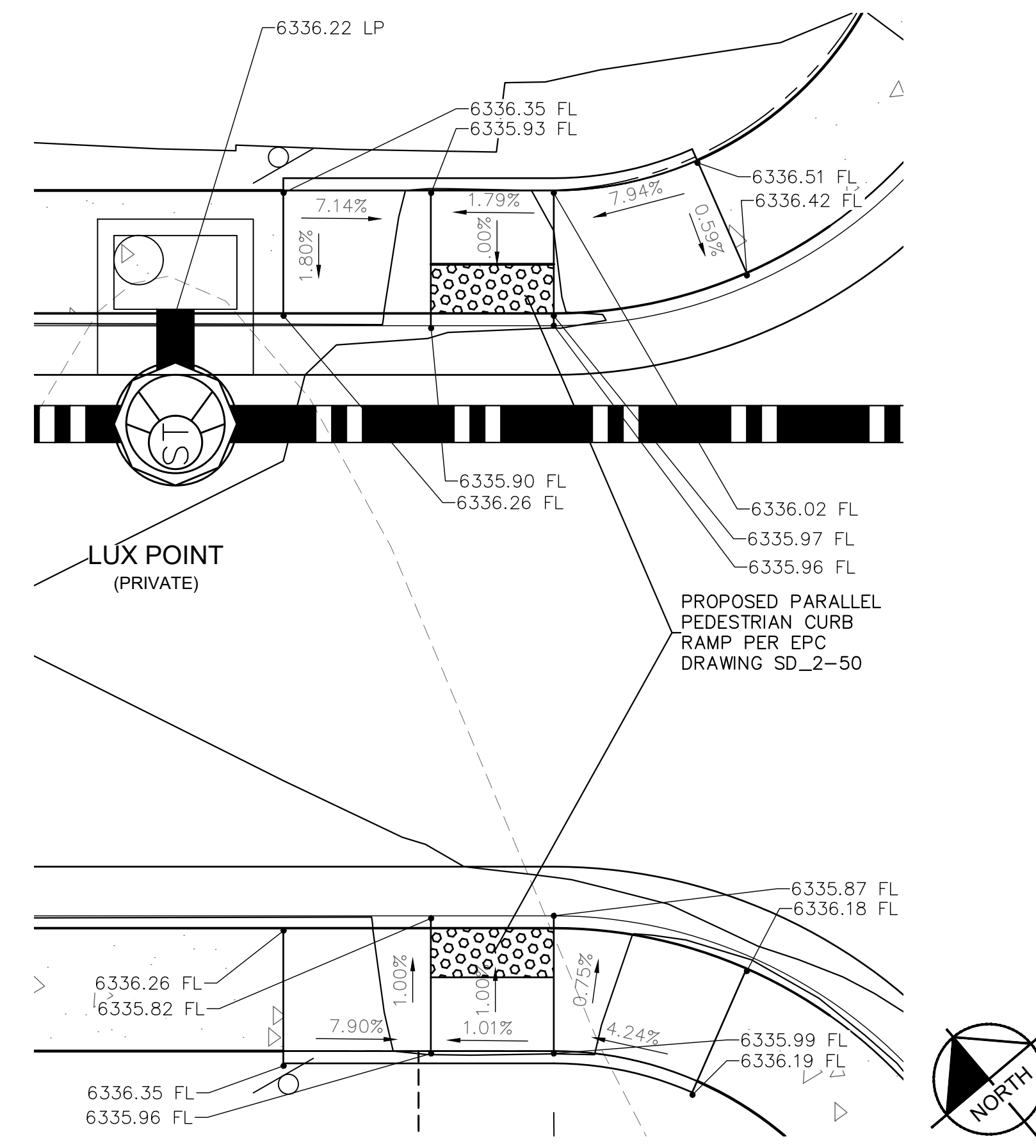
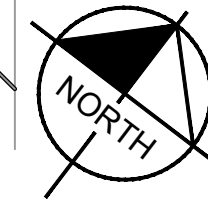
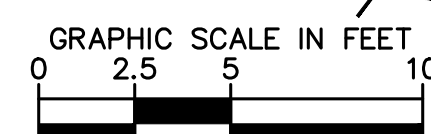
KEYMAP
SCALE: 1" = 250'



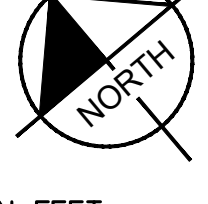
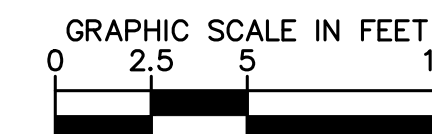
NOVA VIEW AND SOLUM GROVE INTERSECTION CURB RAMP DETAILS



NOVA VIEW AND TENEBRIS POINT INTERSECTION CURB RAMP DETAILS



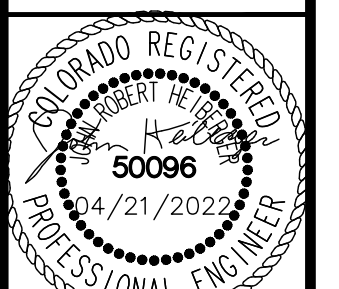
LUX POINT CURB RAMP DETAILS



MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
DETAILED GRADING PLAN

Kimley»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

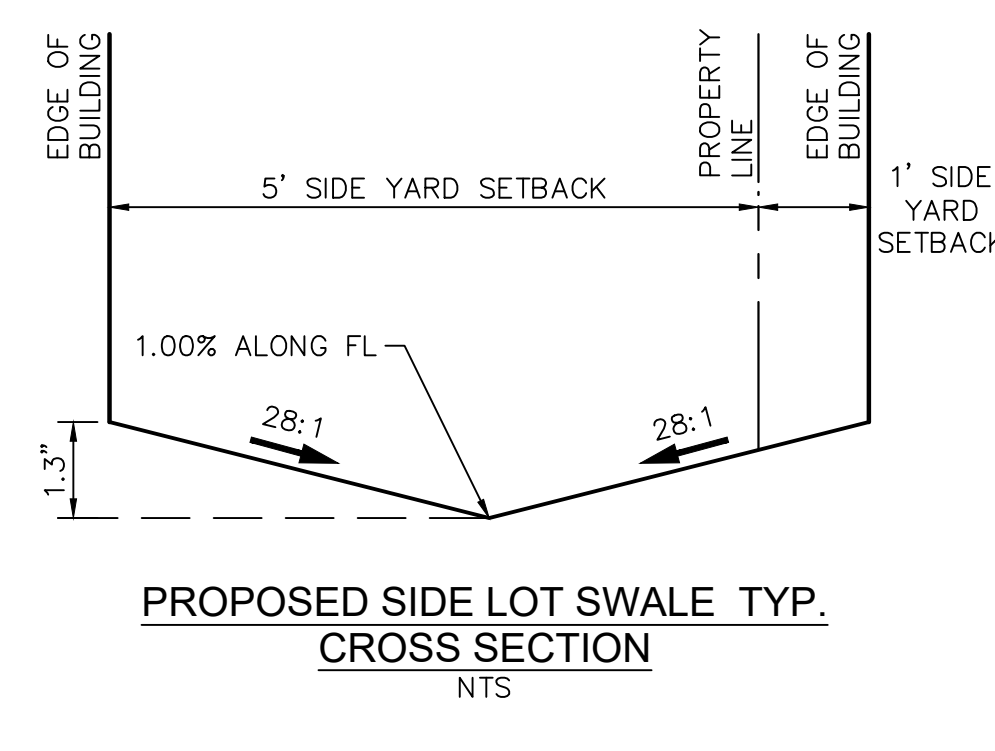
DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022



PROJECT NO.
096956009
SHEET

C1.15

EPC 7/18/22



-
- MEADOWBROOK PKWY
- 65 HWY 24
- KEYMAP
- SCALE: 1" = 250'

C1.16

MEADOWBROOK PARKWAY
REC. NO. 5408403008
(80' PUBLIC ROW)

PROPOSED RAIN GARDEN
PROPERTY LINE

20.0' UTILITY ESMT REC. NO. 217713939

920.20 ME
921.50 ME

40.0' ACCESS EASEMENT

PROPOSED FLUME
6319.29 PL/FG
6319.78 PL/FG
6321.73 PL/FG
6321.93 PL/FG
6322.23 PL/FG
6322.51 PL/FG
6322.79 PL/FG

50.0' PROPOSED PRIVATE ACCESS ESMT (TYP.)

PROPOSED DRIVEWAY (TYP.)

6320.43 PL/FG
6320.72 PL/FG
6321.02 PL/FG
6321.55 PL/FG
6321.86 PL/FG
6322.20 PL/FG
6322.43 PL/FG
6322.15 PL/FG
6322.81 PL/FG
6324.06 PL/FG
6324.15 PL/FG
6323.71 PL/FG

6323.35 PL/FG
6323.52 PL/FG
6323.51 PL/FG
6323.71 PL/FG
6323.82 PL/FG
6325.43 PL/FG
6323.98 PL/FG
6324.58 PL/FG
6327.02 PL/FG
6327.11 PL/FG
6327.69 PL/FG
6328.58 PL/FG
6329.47 PL/FG
6330.33 PL/FG
6331.18 PL/FG
6332.00 PL/FG

6326.16 PL/FG
6325.77 PL/FG
6325.51 PL/FG
6325.15 PL/FG
6325.94 PL/FG
6326.26 PL/FG
6325.73 PL/FG
6326.41 PL/FG
6326.56 PL/FG
6326.87 PL/FG
6328.02 PL/FG
6330.53 PL/FG
6328.71 PL/FG
6329.41 PL/FG
6331.04 PL/FG
6329.17 PL/FG
6327.92 PL/FG
6330.19 PL/FG
6332.80 PL/FG
6331.31 PL/FG
6331.15 PL/FG
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6331.18 PL/FG
6332.00 PL/FG

6325.29 PL/FG
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6332.80 PL/FG
6331.31 PL/FG
6331.15 PL/FG
6330.29 PL/FG
6331.18 PL/FG
6332.00 PL/FG

20.0' SANITARY SEWER ESMT TO BE VACATED BY SEPARATE DOCUMENT. REC. NO. 217074318

PROPOSED SWALE

DISTRICT TRACT 0.23 AC

50.0' PROPOSED PRIVATE ACCESS & UTILITY ESMT (TYP.)

PROPOSED SIDE LOT SWALE IN-BETWEEN HOMES (TYP.)

NOVA VIEW (PRIVATE)

6323.35 PL/FG
6323.52 PL/FG
6323.51 PL/FG
6323.71 PL/FG
6323.82 PL/FG
6325.43 PL/FG
6323.98 PL/FG
6324.58 PL/FG
6327.02 PL/FG
6327.11 PL/FG
6327.69 PL/FG
6328.58 PL/FG
6329.47 PL/FG
6330.33 PL/FG
6331.18 PL/FG
6332.00 PL/FG

6326.16 PL/FG
6325.77 PL/FG
6325.51 PL/FG
6325.15 PL/FG
6325.94 PL/FG
6326.26 PL/FG
6325.73 PL/FG
6326.41 PL/FG
6326.56 PL/FG
6326.87 PL/FG
6328.02 PL/FG
6330.53 PL/FG
6328.71 PL/FG
6329.41 PL/FG
6331.04 PL/FG
6329.17 PL/FG
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6331.15 PL/FG
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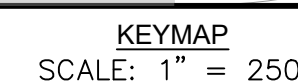
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6325.29 PL/FG
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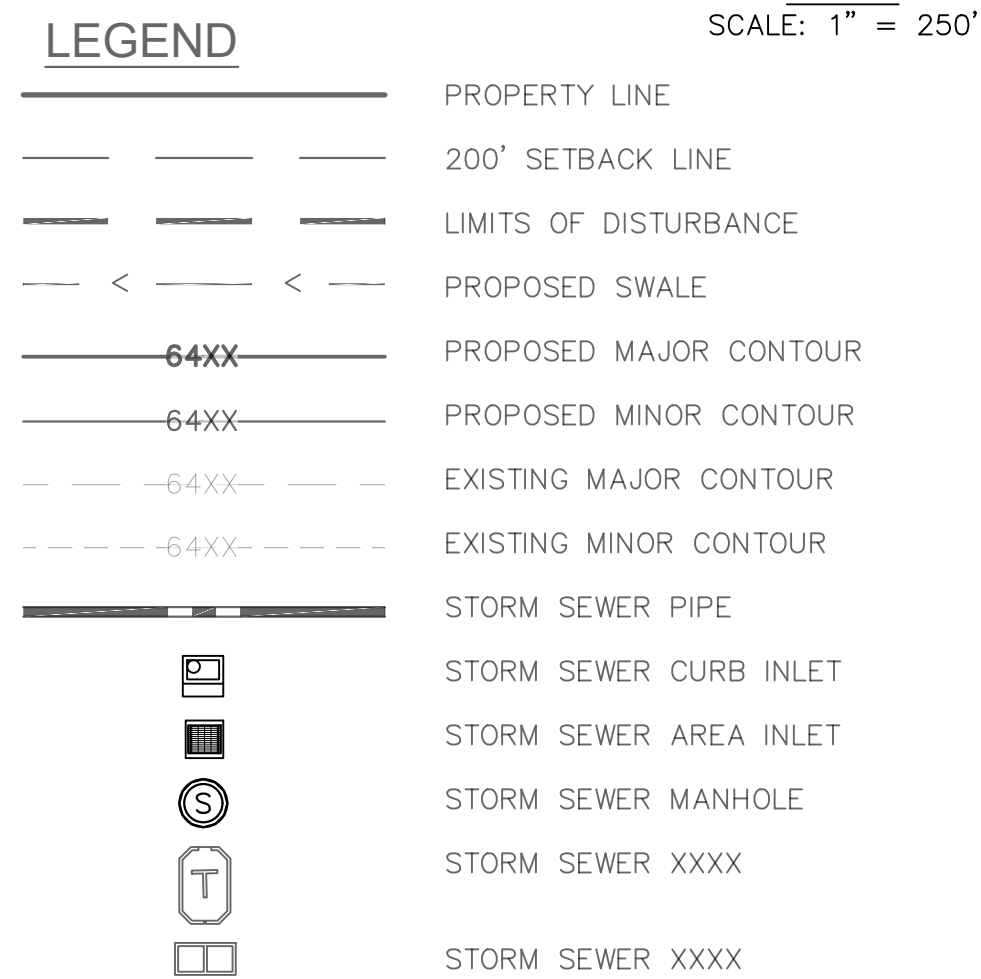
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6

EPC 7/18/22

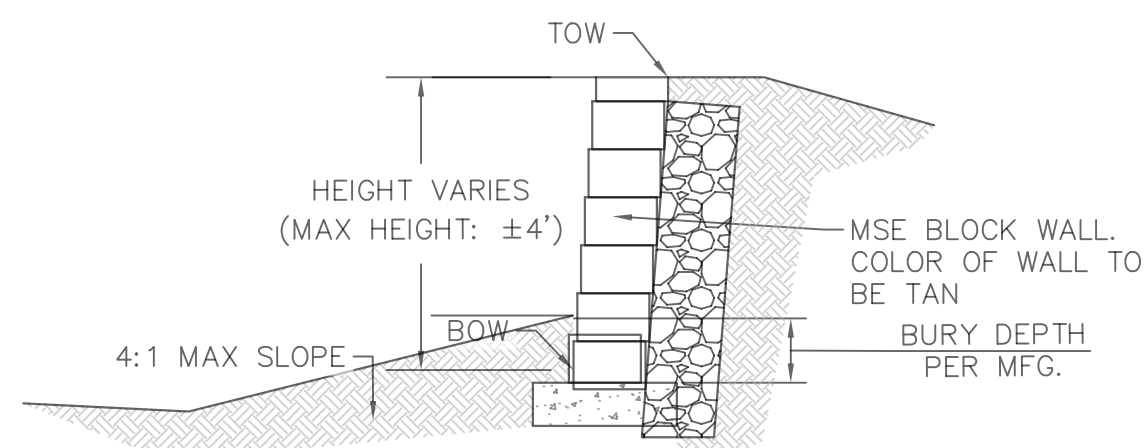


C1.17



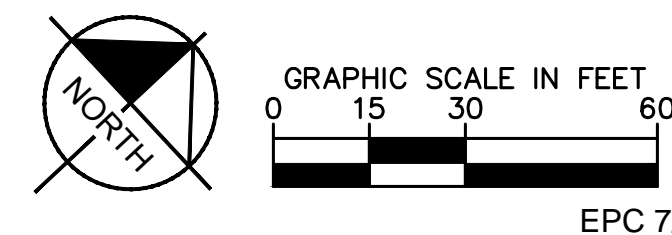
FG -	FINISH GRADE
FL -	FLOW LINE
LP -	LOW POINT
HP -	HIGH POINT
ME -	MATCH EXISTING
SW -	SIDEWALK
TOW -	TOP OF WALL FINISH GRADE
BOW -	BOTTOM OF WALL FINISH GRADE
PL -	PROPERTY LINE

1. REFERENCE SHEETS C1.7-7-C1.13 FOR PLAN AND PROFILE AND DETAILED GRADING FOR PUBLIC ROADWAYS AND SIDEWALKS.
2. PROPOSED GRADING CONTOURS AND SPOT ELEVATIONS SHOWN REPRESENT OVERLOT GRADING FOR AREAS OUTSIDE OF THE PROPOSED ROADWAYS.
3. DETAILED LOT GRADING PLANS TO BE PROVIDED FOR EACH LOT DURING THE BUILDING PERMIT PHASE.
4. RETAINING WALLS SHOWN HEREON TO BE MSE BLOCK PER DETAIL THIS SHEET.
5. ALL BUILDINGS, LOTS 1-67, WILL BE CONSTRUCTED AS, SLAB ON GRADE, LOTS ARE NOT PERMITTED TO HAVE BASEMENTS.
6. SIDE LOT SWALES ARE REQUIRED WITHIN EACH 6-FT CORRIDOR BETWEEN HOMES, PER THE TYPICAL DETAIL SHOWN HEREON. CORRIDORS BETWEEN HOMES SHALL NOT BE GRADED FLAT.



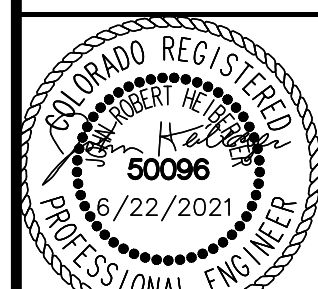
TYPICAL 4' MAX HEIGHT MSE BLOCK RETAINING WALL DETAIL
N.T.S.

SITE KEYNOTES	
1	PROPOSED STORM SEWER MANHOLE
2	PROPOSED TYPE R INLET CURB INLET
3	PROPOSED AREA INLET
4	PROPOSED STORM SEWER
5	PROPOSED 4' MAX HEIGHT MSE BLOCK RETAINING WALL (SEE DETAIL THIS SHEET)
6	PROPOSED 10' MAX HEIGHT SINGLE TIER BIG BLOCK RETAINING WALL (SEE DETAIL SHEET C1.20)
7	PROPOSED 10' MAX HEIGHT TWO TIER BIG BLOCK RETAINING WALL (SEE DETAIL SHEET C1.20)



DESIGNED BY: FSA
DRAWN BY: FSA
CHECKED BY: JH
DATE: 10/09/2020

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
GRADING AND EROSION CONTROL PLAN
DETAILED OVERLOT GRADING PLAN



PROJECT NO. 096956009
SHEET

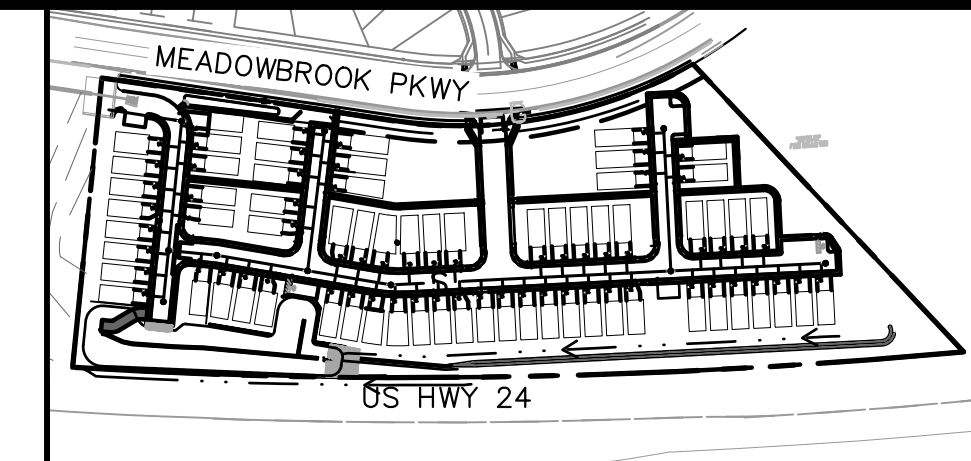
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MEADOWBROOK PARK

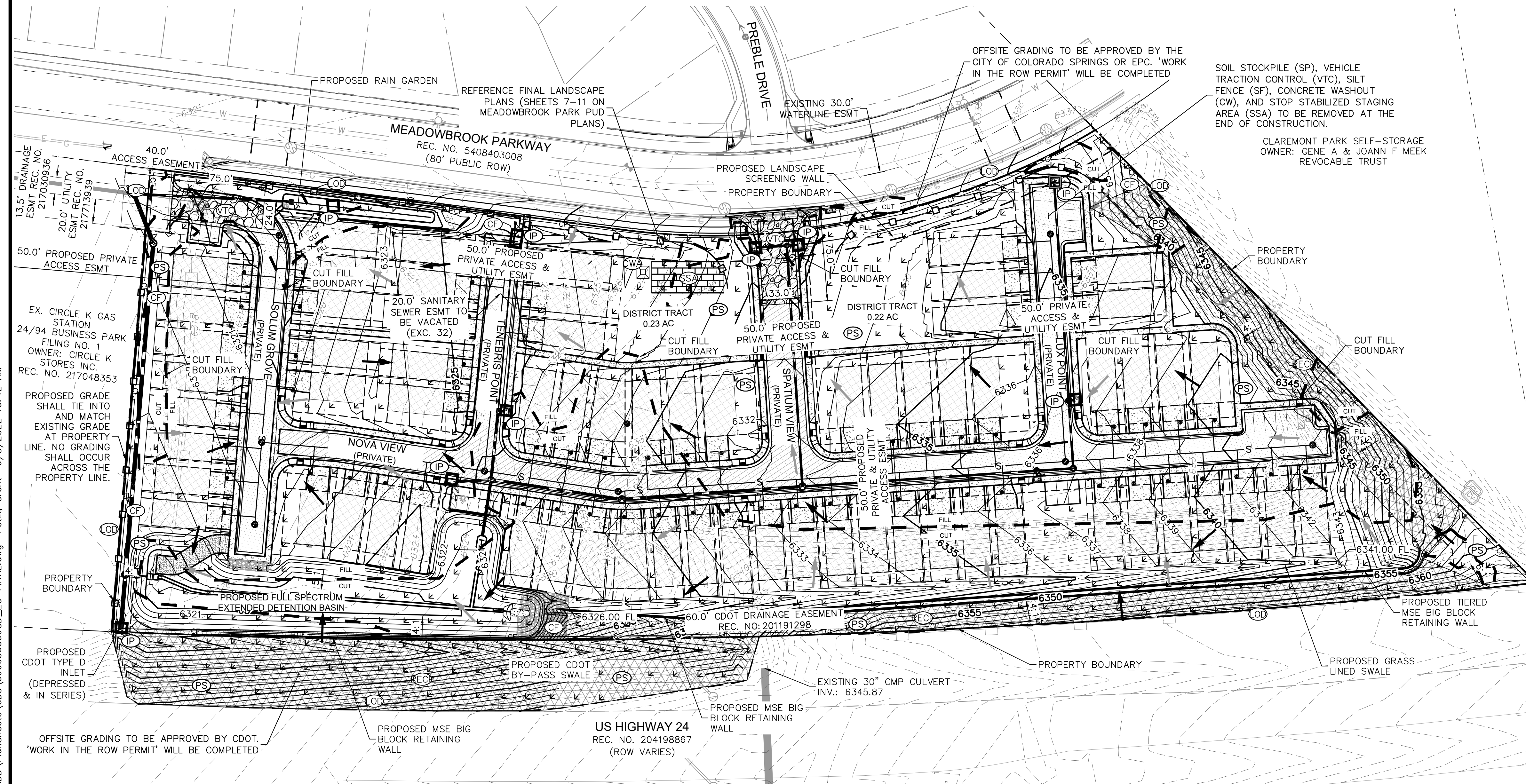
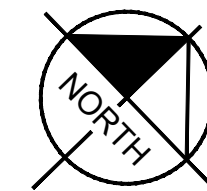
FINAL GRADING AND EROSION CONTROL PLANS

TRACT A, 94/24 BUSINESS PARK FILING NO. 1

EL PASO COUNTY, STATE OF COLORADO



KEYMAP
SCALE: 1" = 250'



LEGEND

---	PROPERTY LINE
---	PROPERTY SETBACK LINE
- - - -	CUT/FILL LINE
- - - -	①D LIMITS OF DISTURBANCE/CONSTRUCTION BOUNDARY
→ - - -	①S DRAINAGE SWALE
- - - -	SF SILT FENCE
I	①D CHECK DAM
[Pattern]	SSA STABILIZED STAGING AREA
[Pattern]	VTC VEHICLE TRACKING CONTROL
[Pattern]	SP SOIL STOCKPILE
[Pattern]	SB TEMPORARY SEDIMENT BASIN
[Pattern]	EC ROLLED EROSION CONTROL PRODUCTS
[Pattern]	PS PERMANENT SEEDING/FINAL STABILIZATION ROOF
[Pattern]	CONCRETE PAVEMENT
[Pattern]	ASPHALT PAVEMENT
→	PROP. FLOW ARROW
→	EX. FLOW ARROW
64XX	PROPOSED MAJOR CONTOUR
64XX	PROPOSED MINOR CONTOUR
64XX	EXISTING MAJOR CONTOUR
64XX	EXISTING MINOR CONTOUR
[Symbol]	IP INLET PROTECTION
[Symbol]	CWA CONCRETE WASHOUT AREA

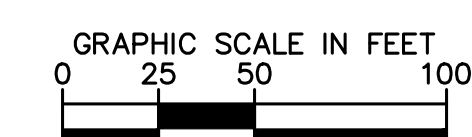
LIMITS OF CONSTRUCTION

ONSITE DISTURBANCE	= ±8.07 ACRES
OFFSITE DISTURBANCE	= ±0.95 ACRES
TOTAL	= ±9.02 ACRES

NOTES

1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED.
2. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
3. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
4. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
5. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITH COUNTY AND STATE REQUIREMENT.
6. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA) AND VEHICLE TRACKING CONTROL (VTC) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES.
7. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SOIL STOCKPILE AREA AS MINING SEQUENCING DICTATES.
8. CHECK DAMS TO BE SPACED ALONG DRAINAGE SWALES PER UDPCD DETAILS. SCL MAY BE USED IN PLACE OF RIP RAP.

EPC 7/18/22

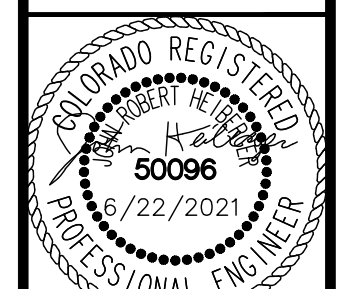


Kimley»Horn

2020 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: FSA
DRAWN BY: FSA
CHECKED BY: JH
DATE: 10/09/2020

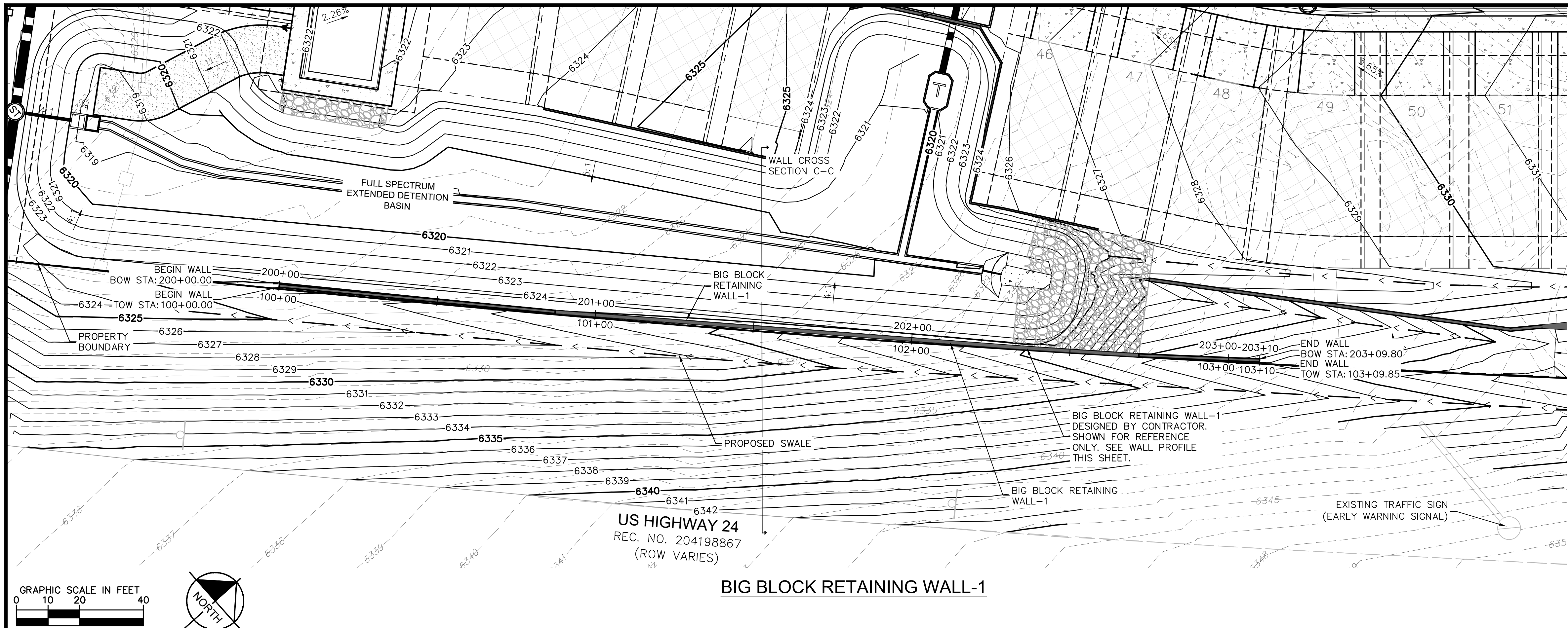
MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
GRADING AND EROSION CONTROL PLAN
FINAL EROSION CONTROL PLAN



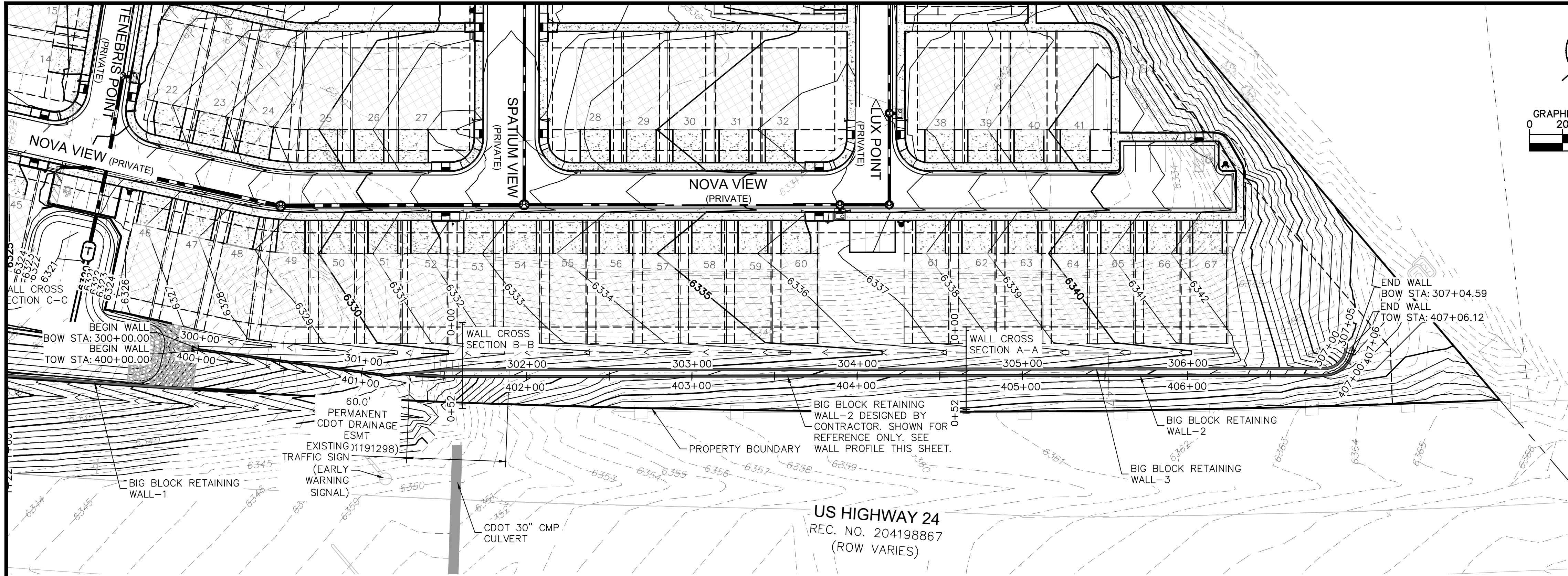
PROJECT NO.
096956009
SHEET

C1.19

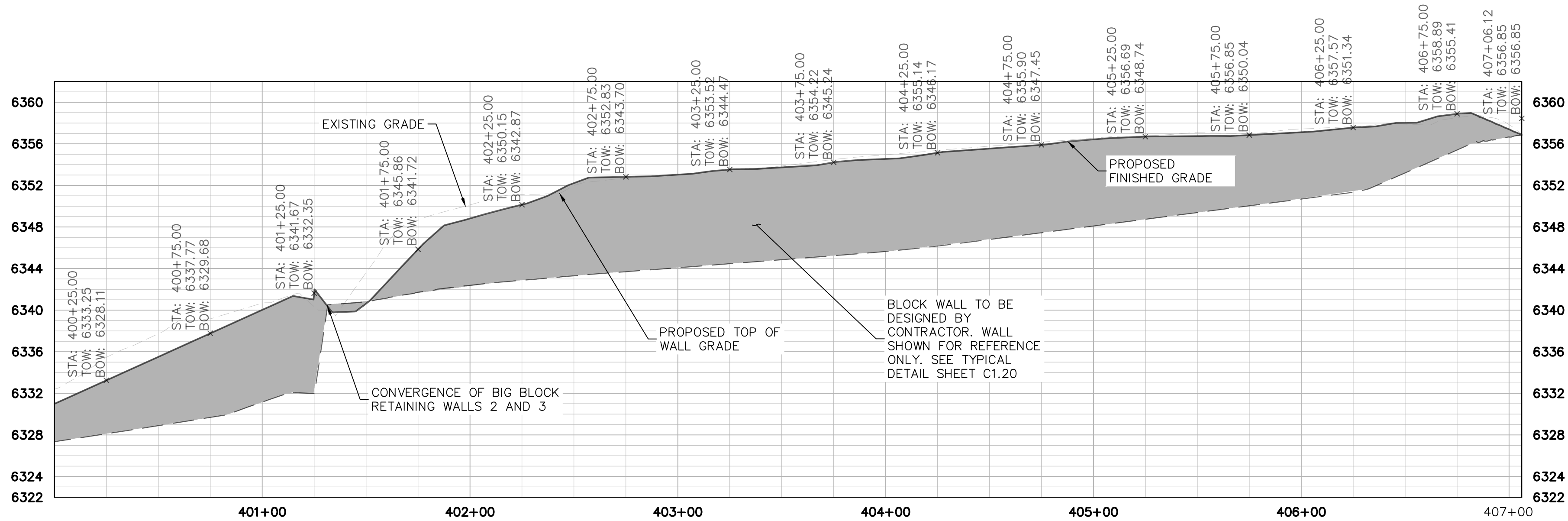
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BIG BLOCK RETAINING WALL-2

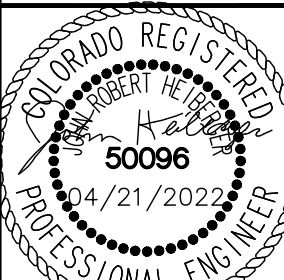


EPC 7/18/22

NOTE:

FOR REFERENCE ONLY. CONTRACTOR SHALL PROCURE ENGINEERED WALL DRAWINGS AND SUBMIT THEM TO THE ENGINEER OF RECORD AND EL PASO COUNTY FOR REVIEW AND ISSUANCE OF A WALL BUILDING PERMIT PRIOR TO CONSTRUCTION.

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
RETAINING WALL PLANS



PROJECT NO.
096956009

SHEET

C1.21

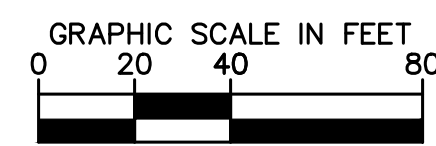
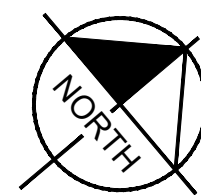
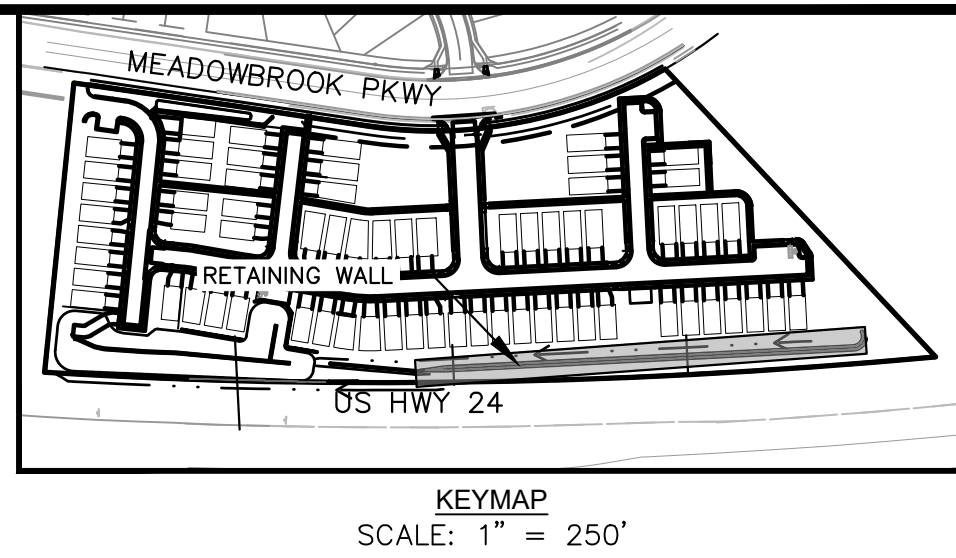
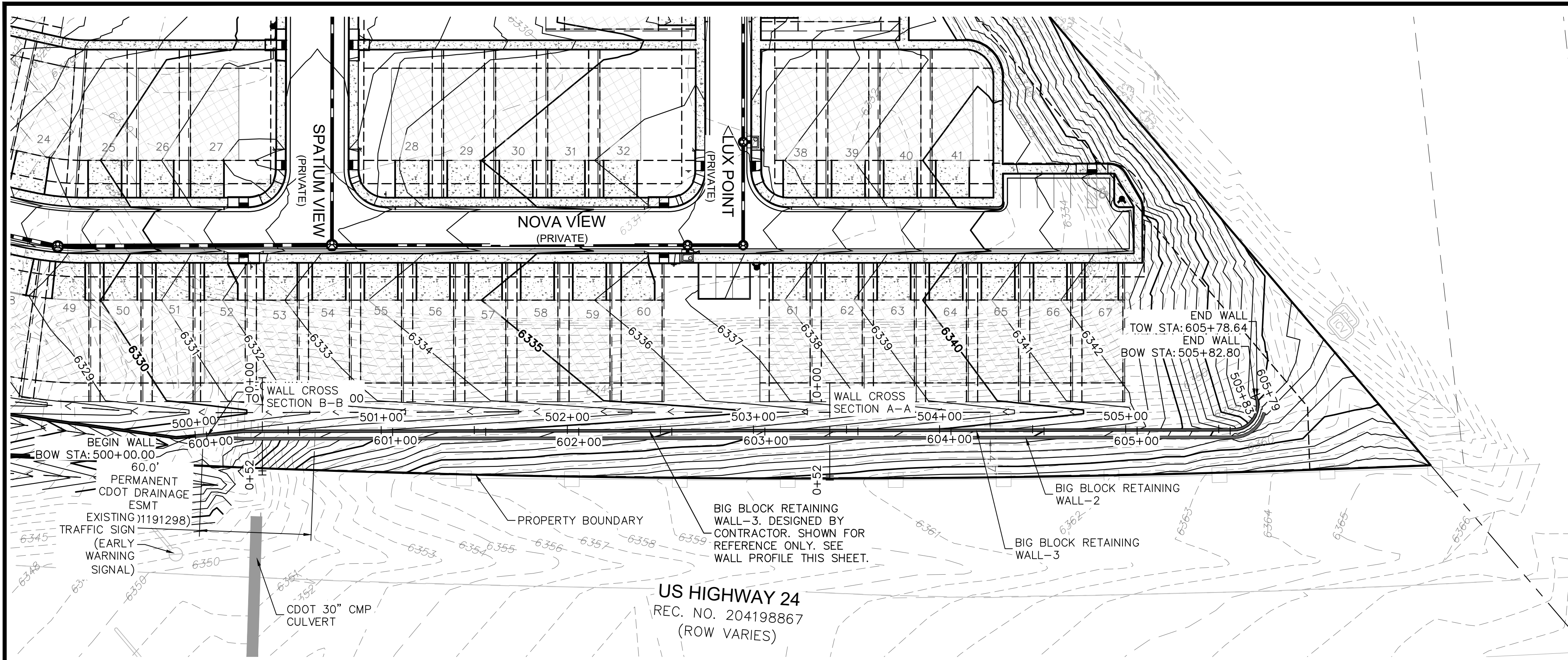
Kimley»Horn

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

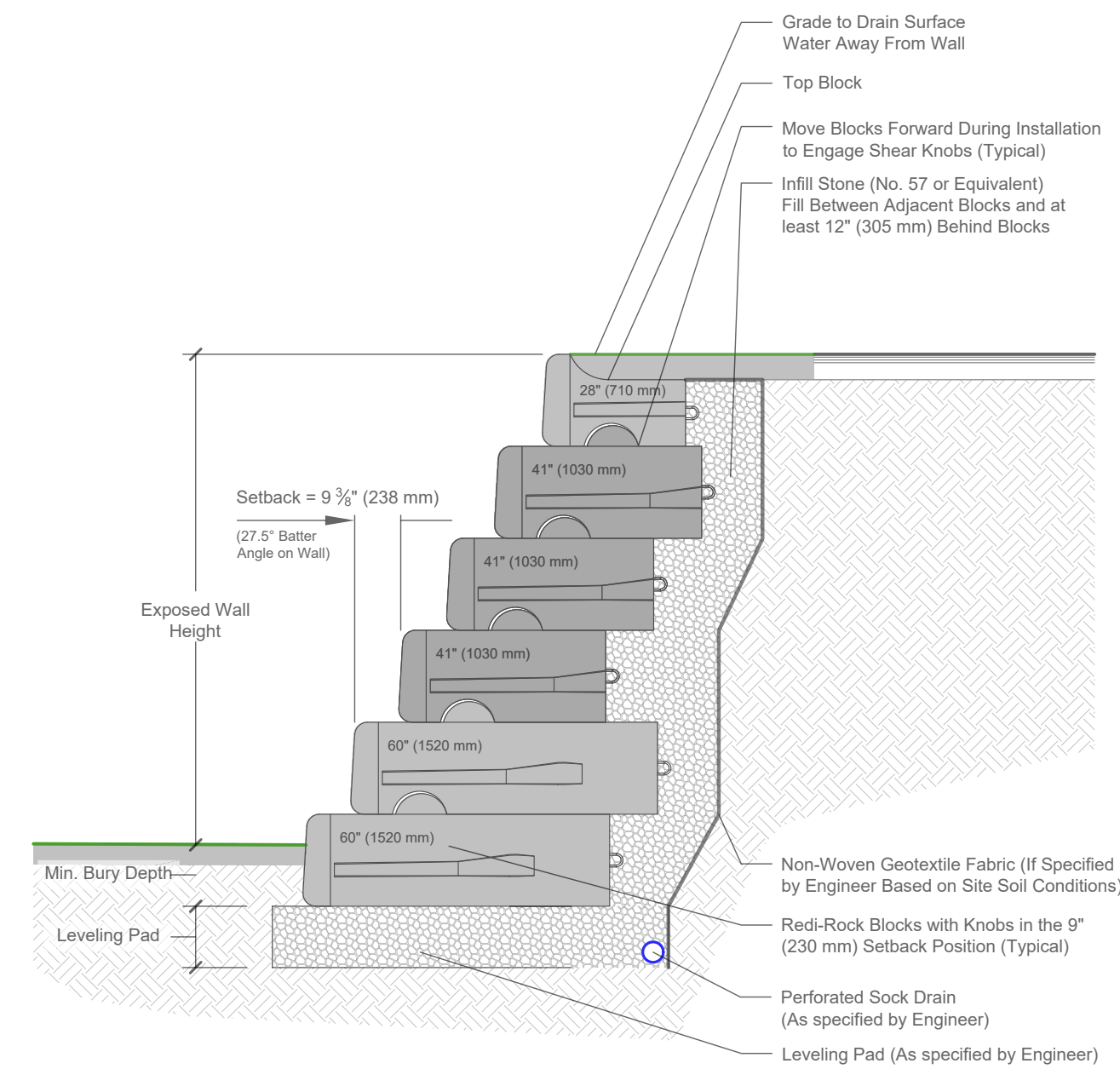
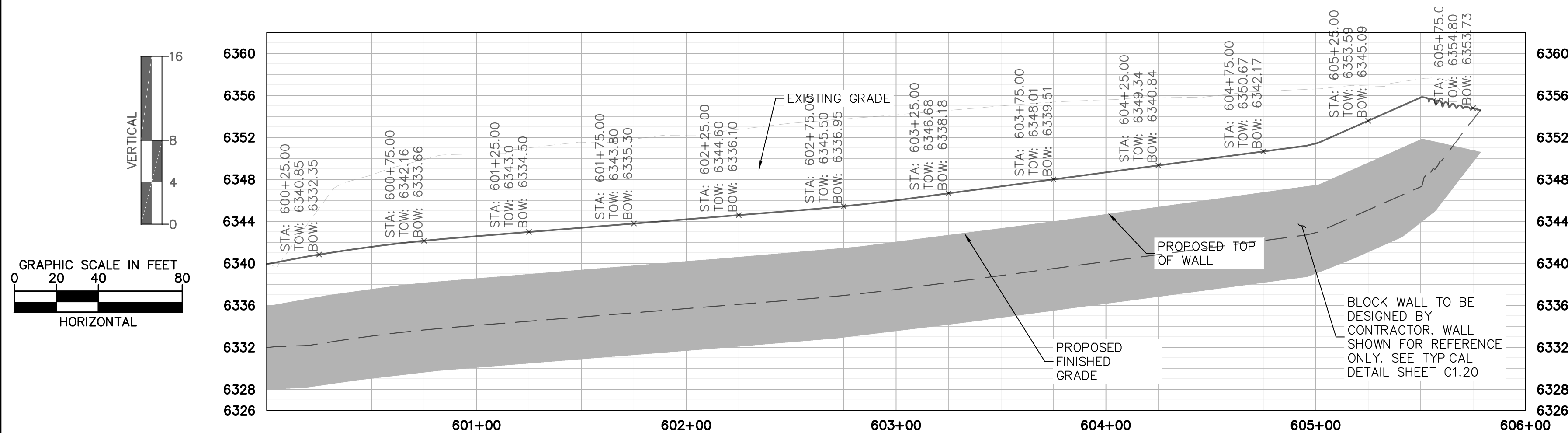
DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

NO. REVISION BY DATE APPR

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BIG BLOCK RETAINING WALL-3



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability.

BIG BLOCK RETAINING WALL TYP. SCHEMATIC

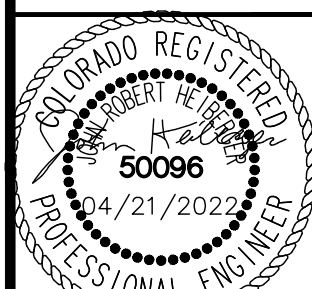
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DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 06/06/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
RETAINING WALL PLANS



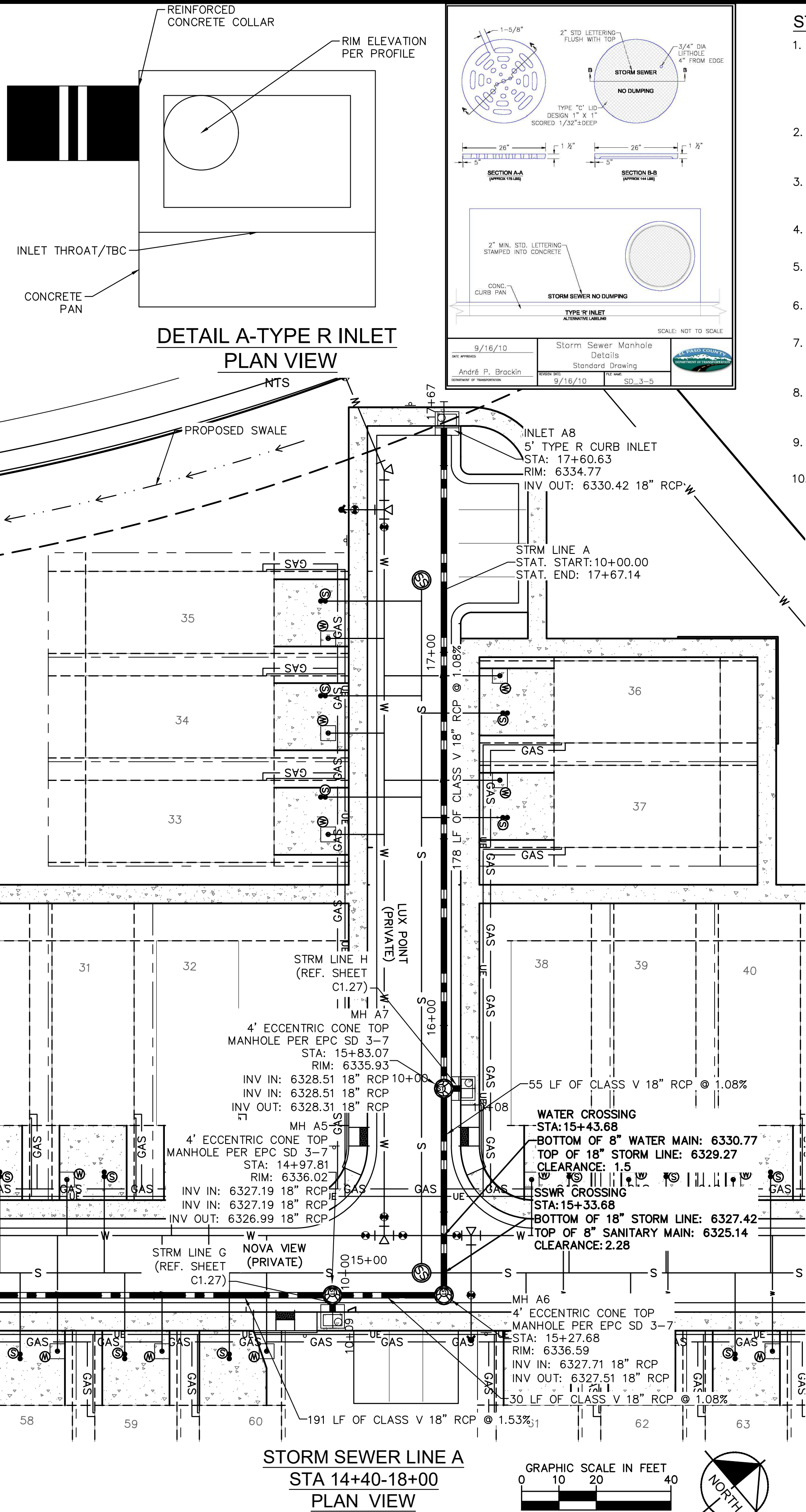
PROJECT NO.
096956009

SHEET

C1.22

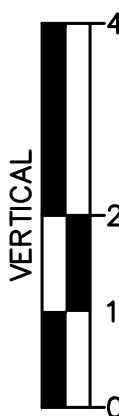
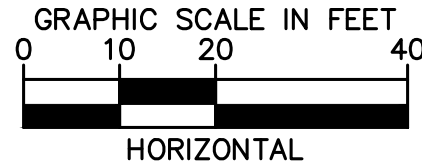
EPC 7/18/22

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STORM SEWER NOTES:

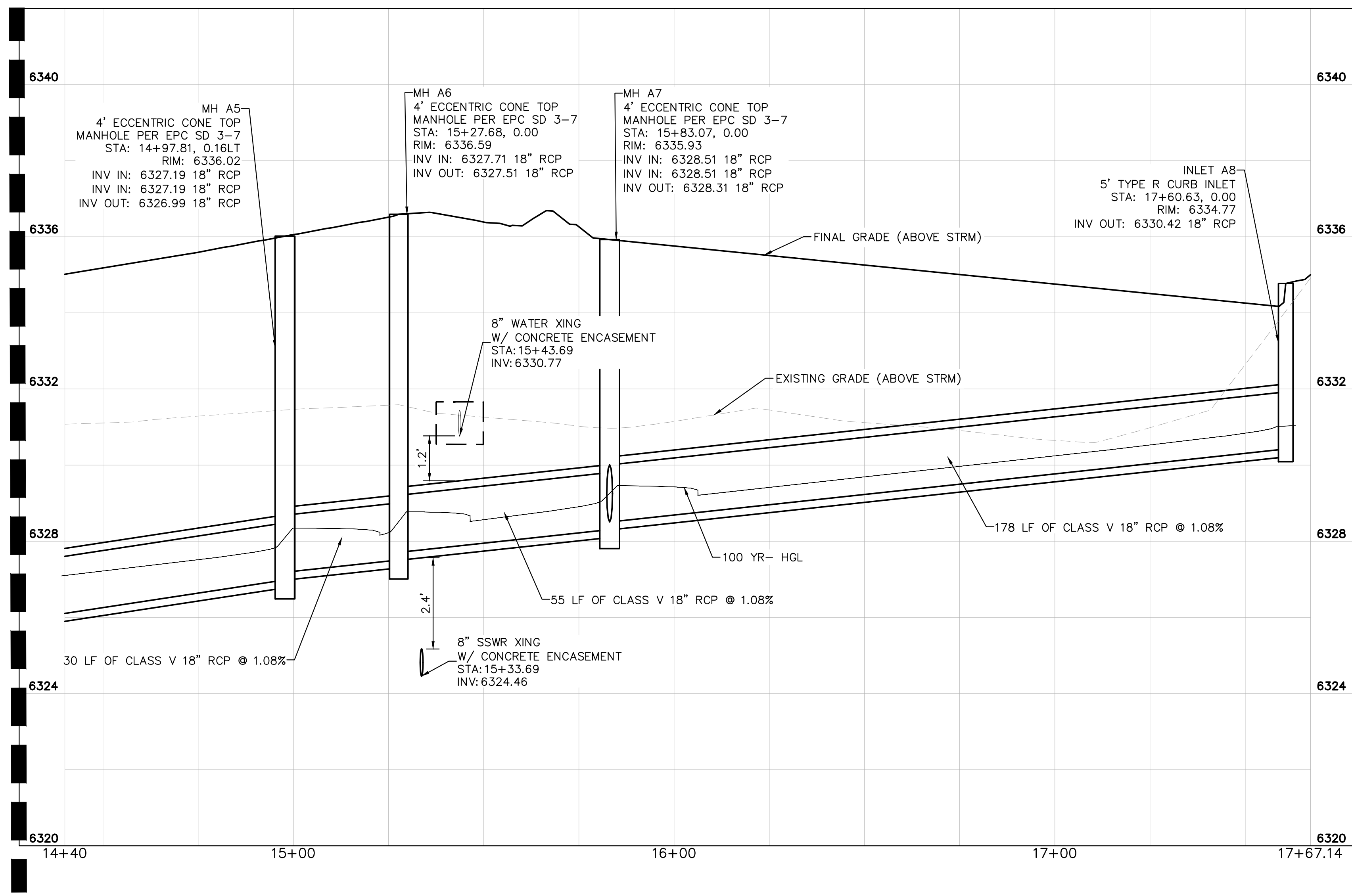
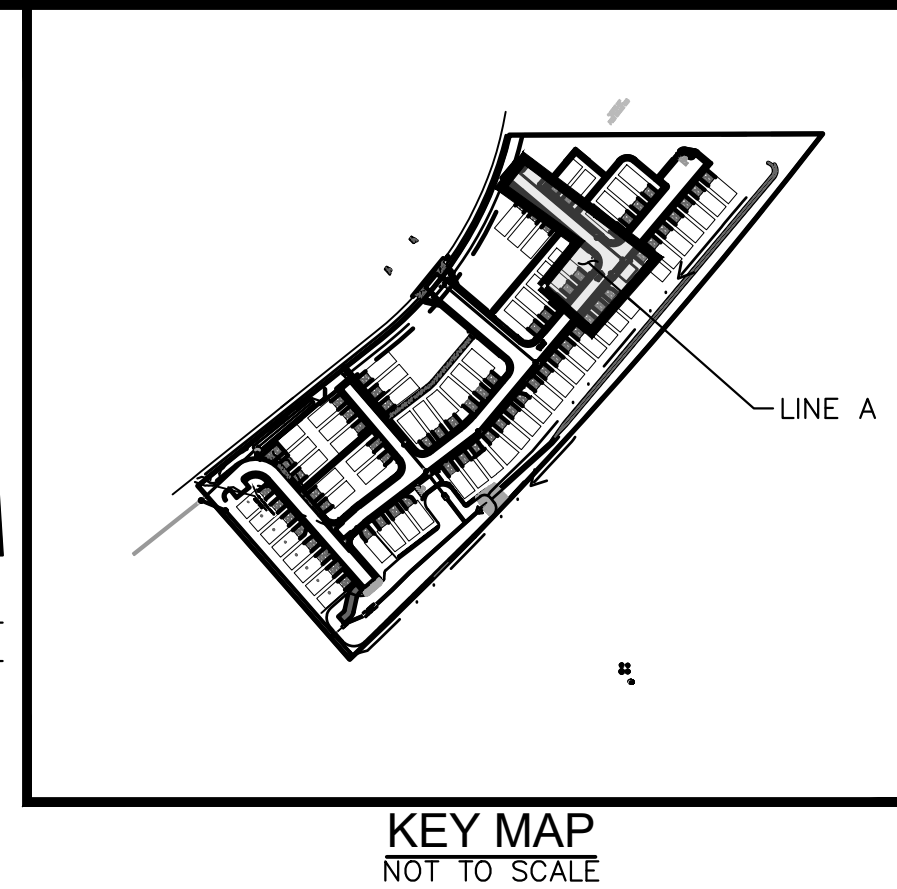
- MANHOLE RIM ELEVATIONS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL MANHOLES IN ACCORDANCE WITH APPLICABLE DETAILS BASED UPON FINAL FINISH GRADING AT MANHOLE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO ACCOMMODATE DEVIATIONS IN SITE GRADING AT NO COST TO THE OWNER.
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- ALL STORM INLET STRUCTURES TO BE 5' TYPE R CURB INLETS.



MATCHLINE. REFER TO SHEET C1.23

LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT AND BOLLARD ASSEMBLY PER COA STD DETAIL 208
- PROPOSED FIRE DEPARTMENT CONNECTION W/ APPROVED KNOX HARDWARE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- SANITARY SEWER MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CURB INLET
- EXISTING CURB INLET
- PROPOSED GRATE INLET
- PROPOSED LANDSCAPE DRAIN
- DAE DRAINAGE ACCESS EASEMENT
- TOC TOP OF CURB



Kimley»Horn

2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KK
DRAWN BY: KK
CHECKED BY: JH
DATE: 04/25/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
UTILITY AND WATER SERVICE PLANS
STORM SEWER PLAN & PROFILES-LINE A

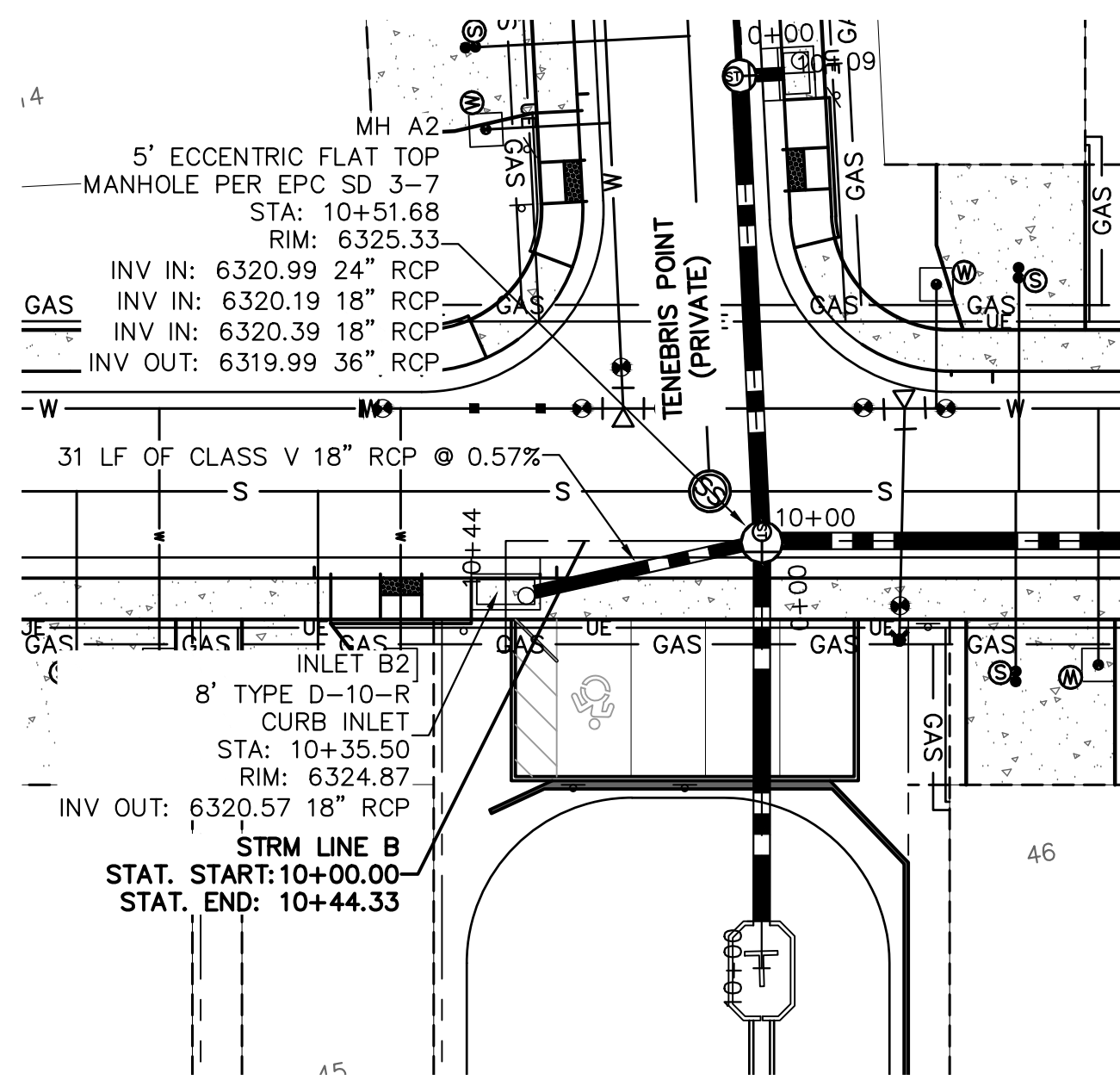


PROJECT NO.
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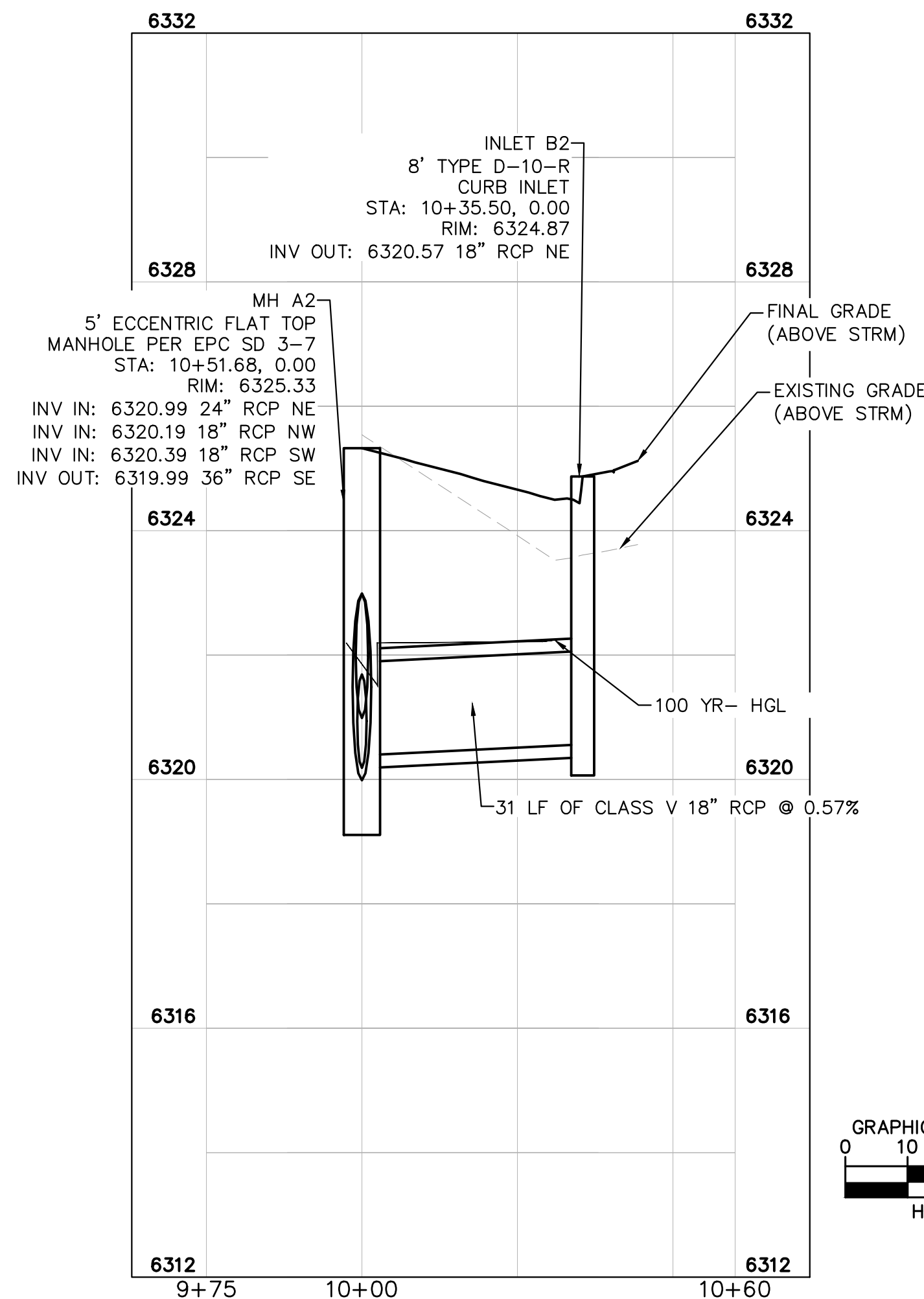
SHEET
C1.24

EPC 7/18/22

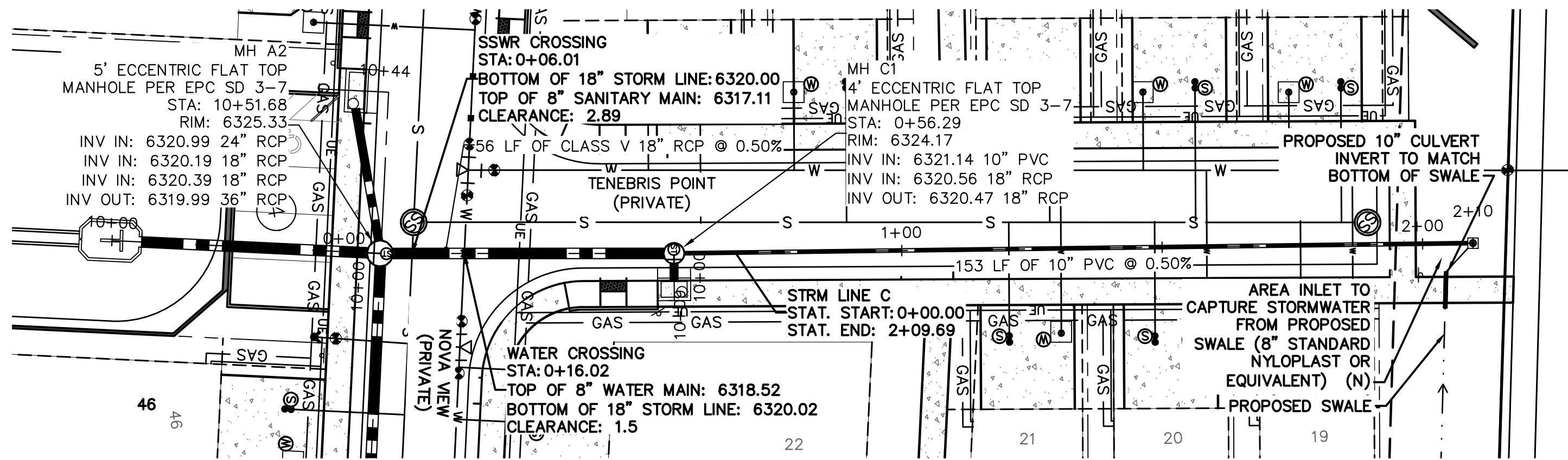
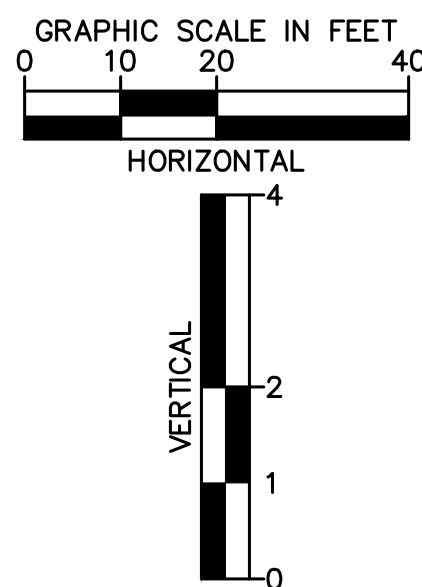
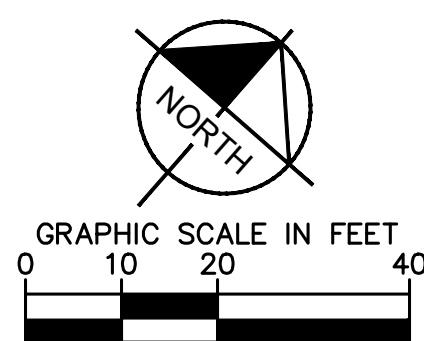
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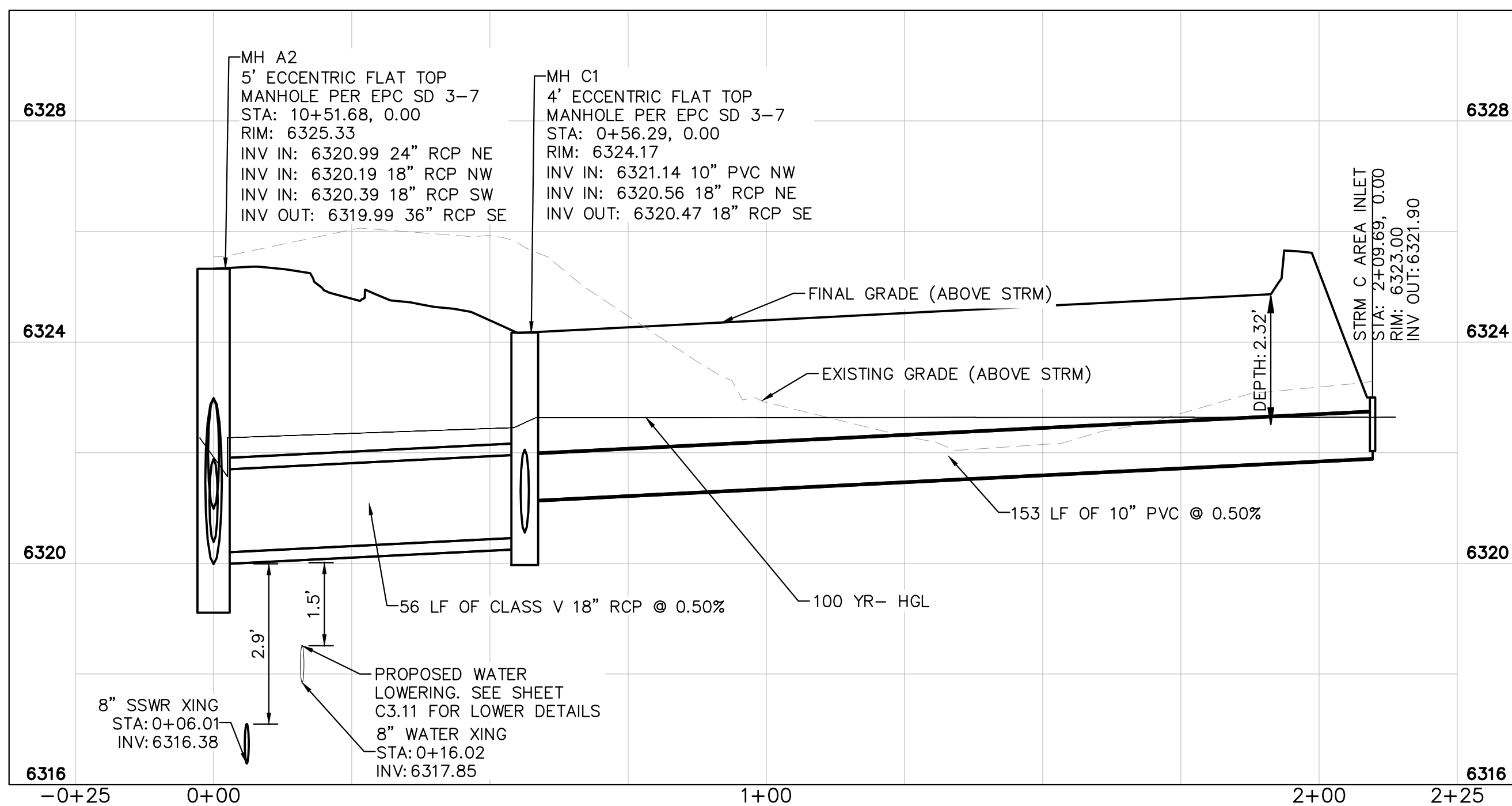
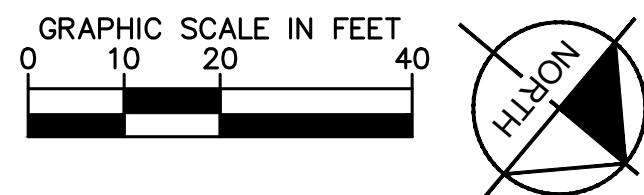
STORM SEWER LINE B
PLAN VIEW



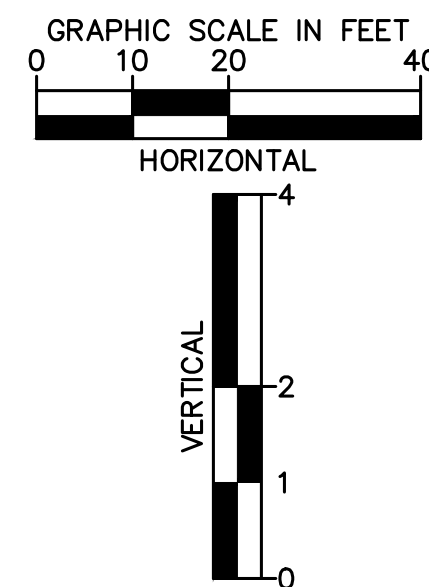
STORM SEWER LINE B
PROFILE VIEW



STORM SEWER LINE C PLAN VIEW



STORM SEWER LINE C PROFILE VIEW

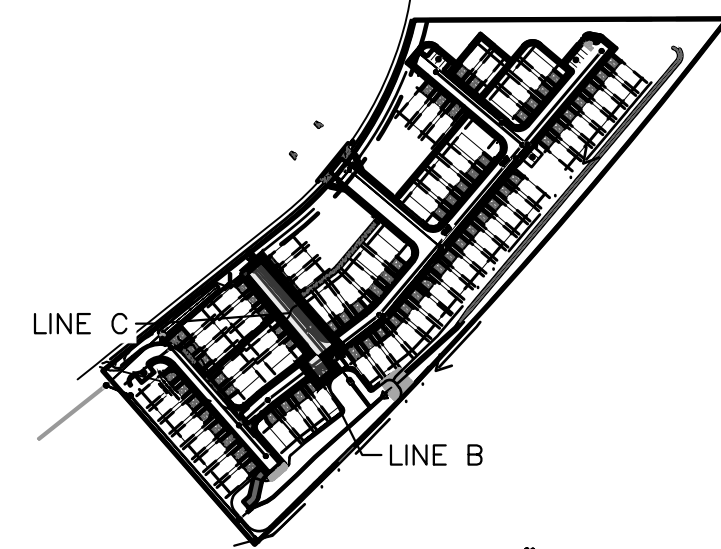


LEGEND:

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT AND BOLLARD
ASSEMBLY PER COA STD DETAIL 208
- PROPOSED FIRE DEPARTMENT CONNECTION
W/ APPROVED KNOX HARDWARE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- SANITARY SEWER MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CURB INLET
- EXISTING CURB INLET
- PROPOSED GRATE INLET
- PROPOSED LANDSCAPE DRAIN
- DAE DRAINAGE ACCESS EASEMENT
- TOC TOP OF CURB

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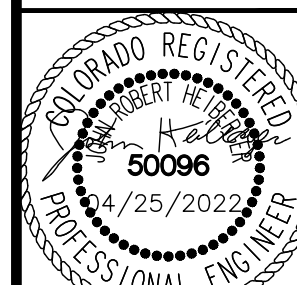
KEY MAP
NOT TO SCALE

Kimley»Horn

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Colorado Springs, Colorado 80903 (719) 453-0180

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MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
UTILITY AND WATER SERVICE PLANS
STORM SEWER PLAN & PROFILES-LINE B&C



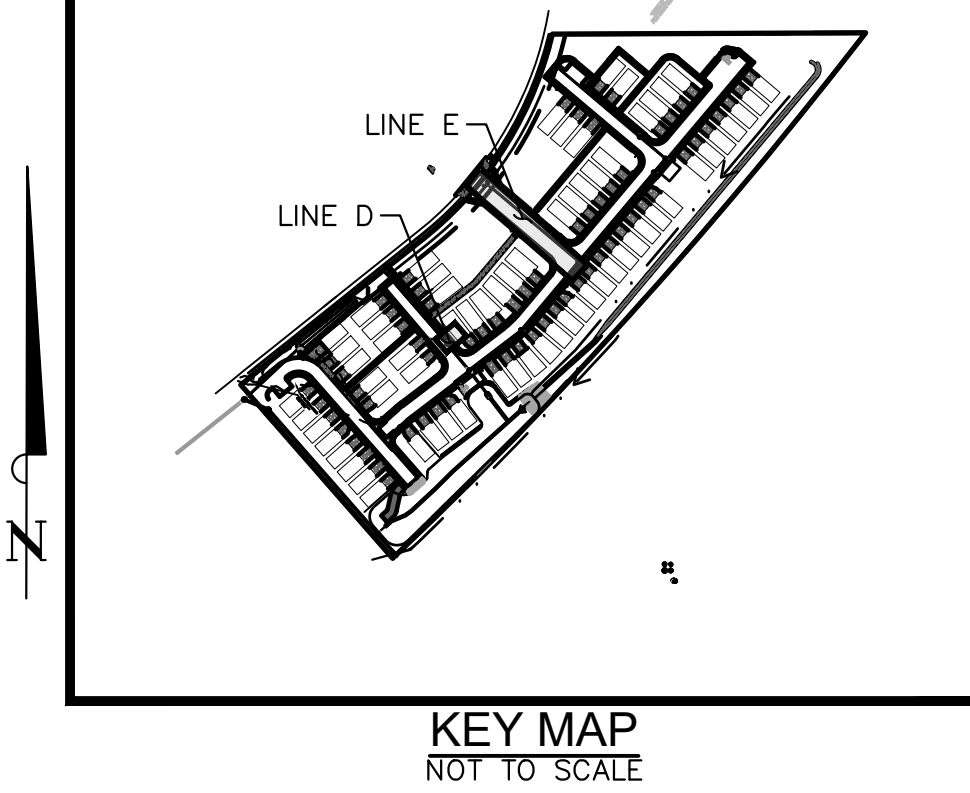
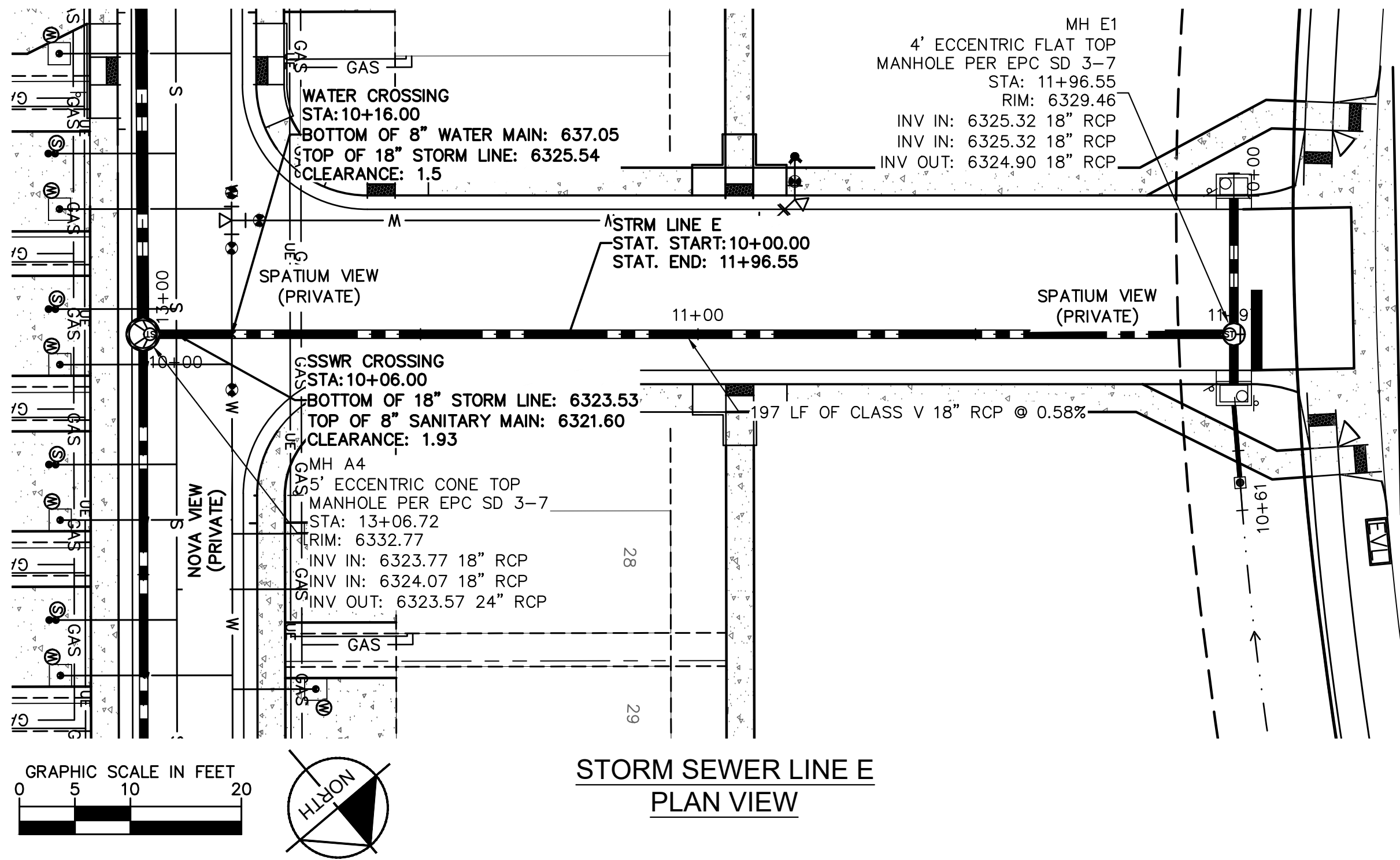
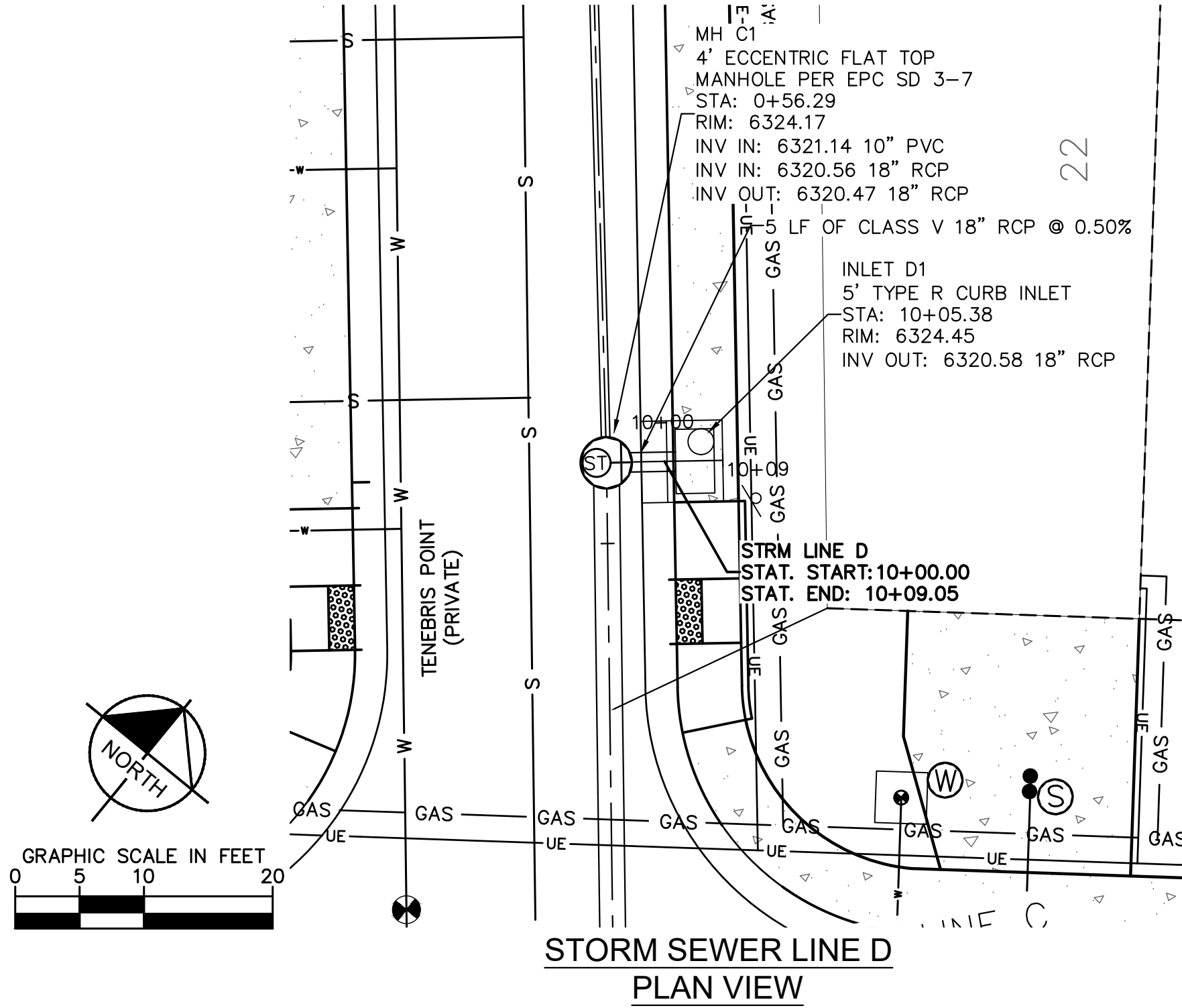
PROJECT NO.
096956009

SHEET

C1.25

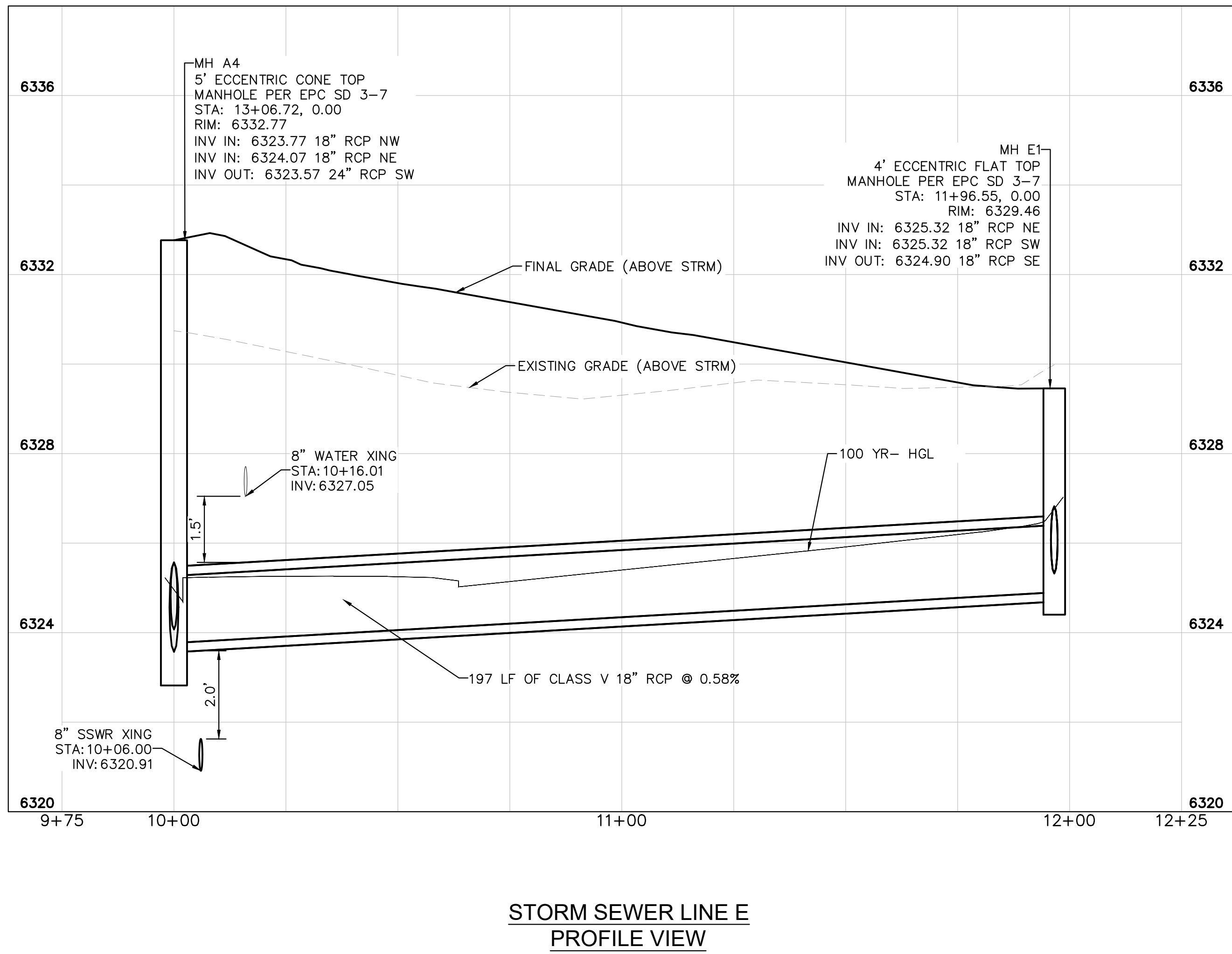
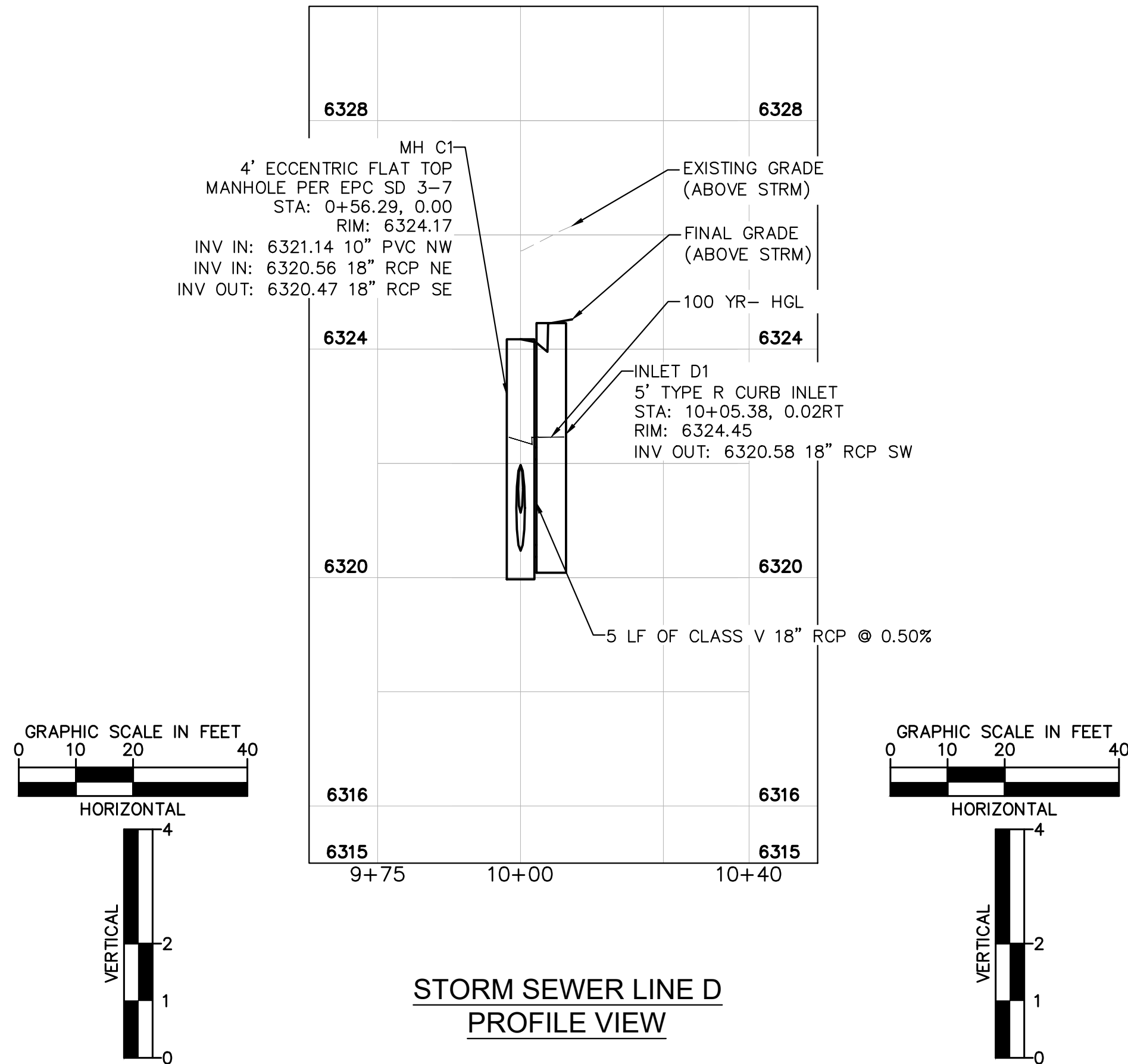
EPC 7/18/22

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- LEGEND:**
- PROPERTY LINE
 - EXISTING EASEMENT LINE
 - PROPOSED EASEMENT LINE
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 - PROPOSED STORM SEWER
 - EXISTING WATER LINE
 - PROPOSED WATER LINE
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 - PROPOSED FIRE HYDRANT AND BOLLARD ASSEMBLY PER COA STD DETAIL 208
 - PROPOSED FIRE DEPARTMENT CONNECTION W/ APPROVED KNOX HARDWARE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - SANITARY SEWER MANHOLE
 - PROPOSED STORM MANHOLE
 - EXISTING STORM MANHOLE
 - PROPOSED CURB INLET
 - EXISTING CURB INLET
 - PROPOSED GRATE INLET
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 - TOC TOP OF CURB

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MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
UTILITY AND WATER SERVICE PLANS
STORM SEWER PLAN & PROFILES- LINES D&E

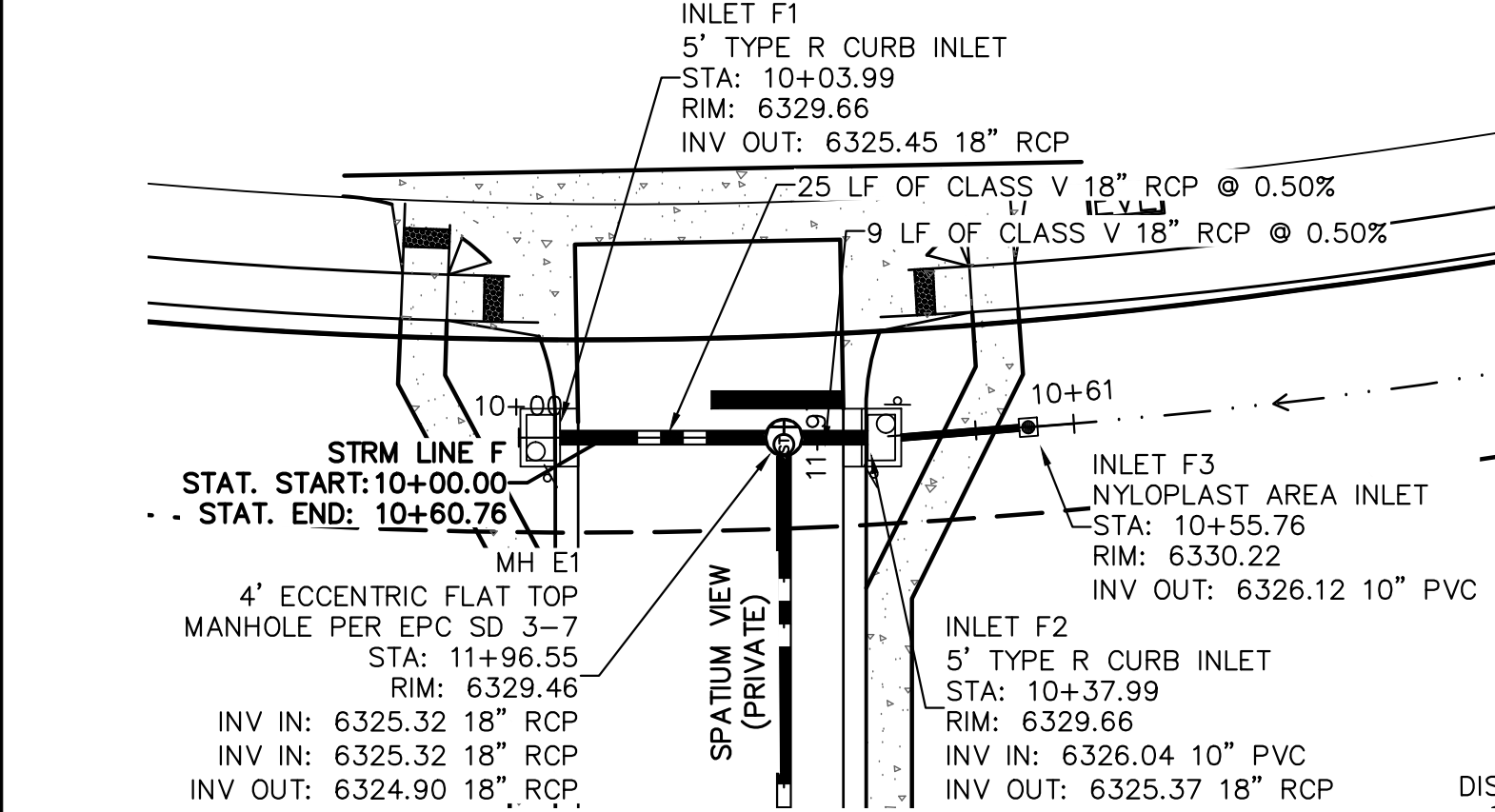
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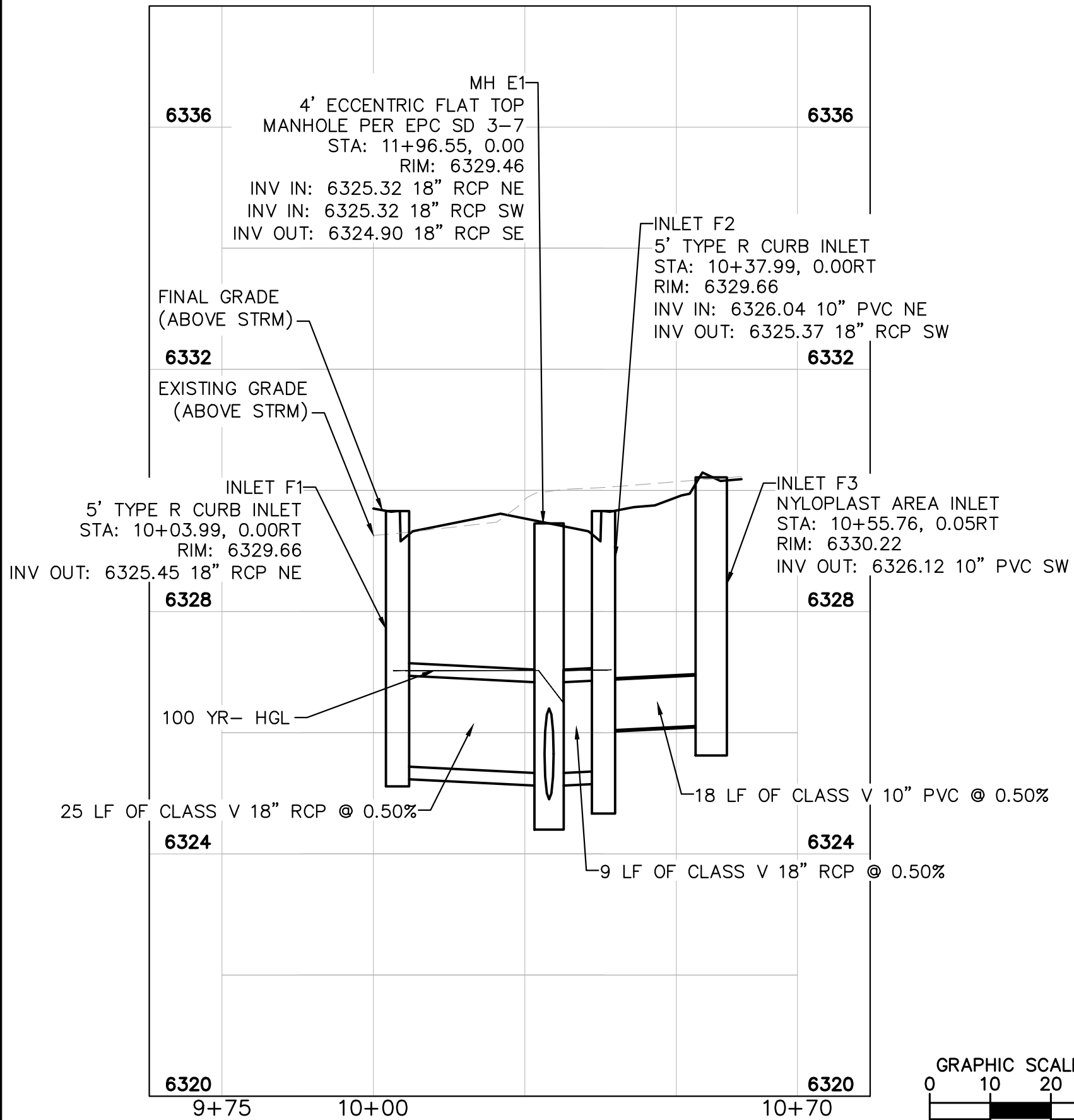
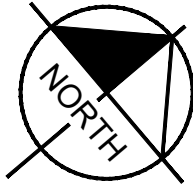
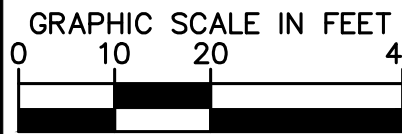
EPC 7/18/22

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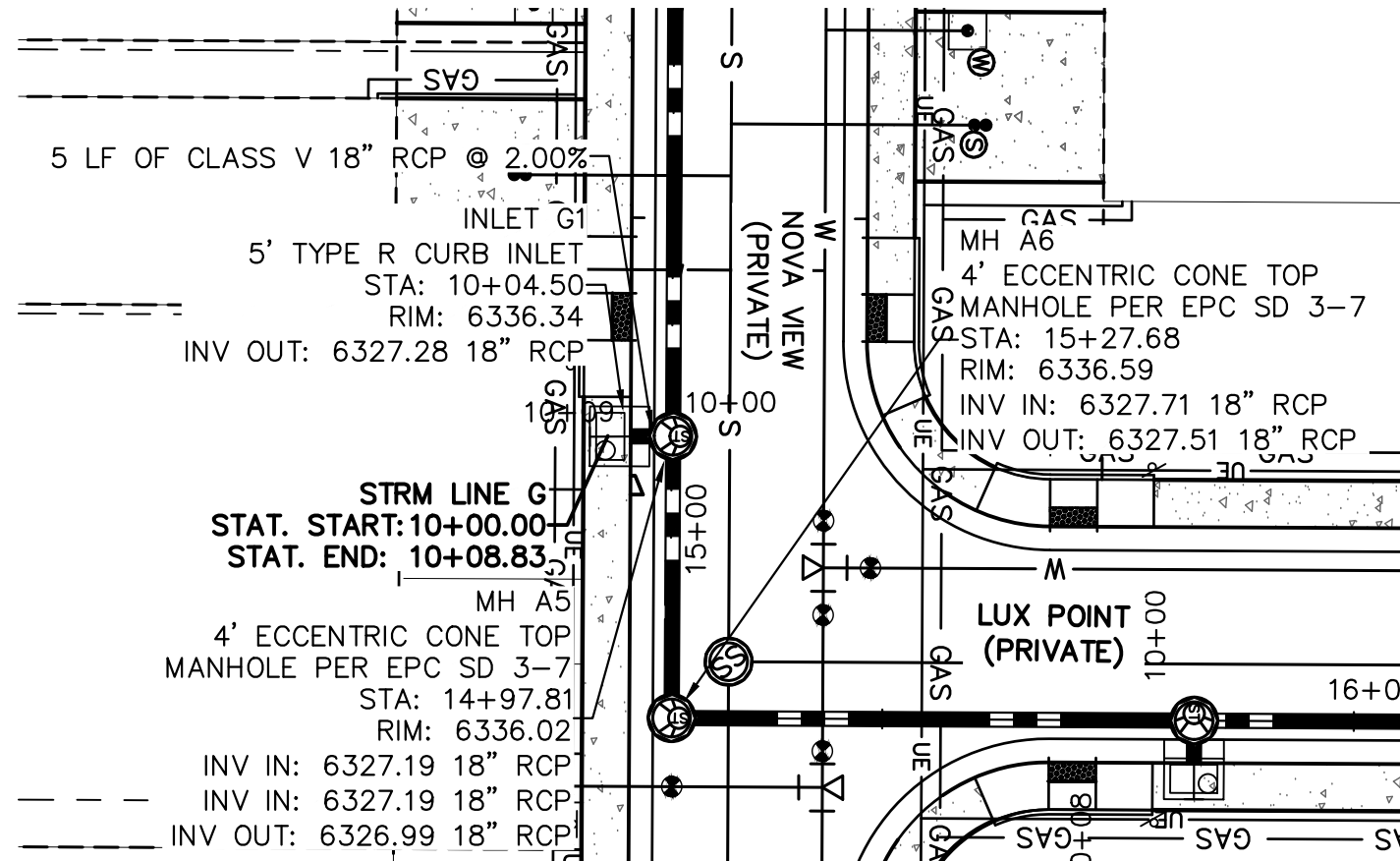
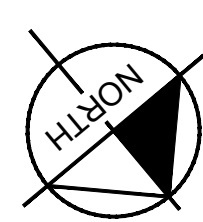
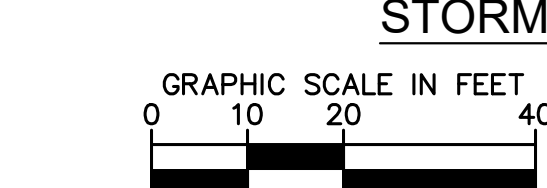
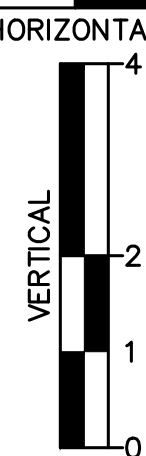
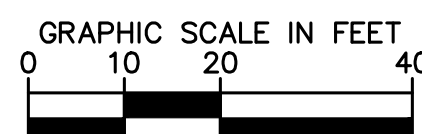
MEADOWBROOK PARKWAY
REC. NO. 5408403008
(80' PUBLIC ROW)



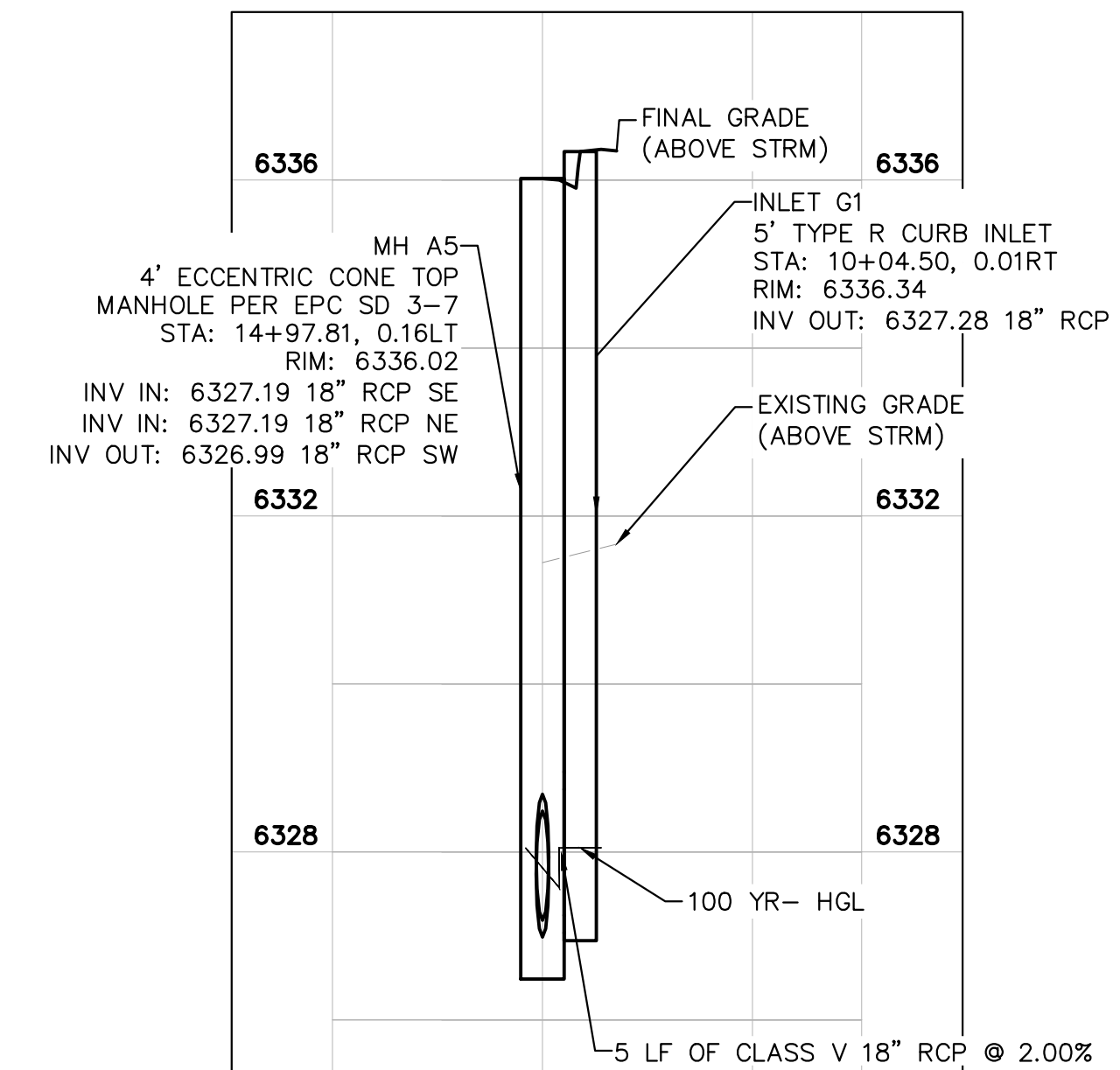
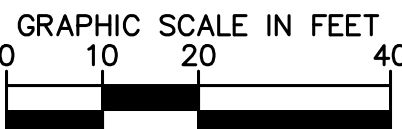
STORM SEWER LINE F PLAN VIEW



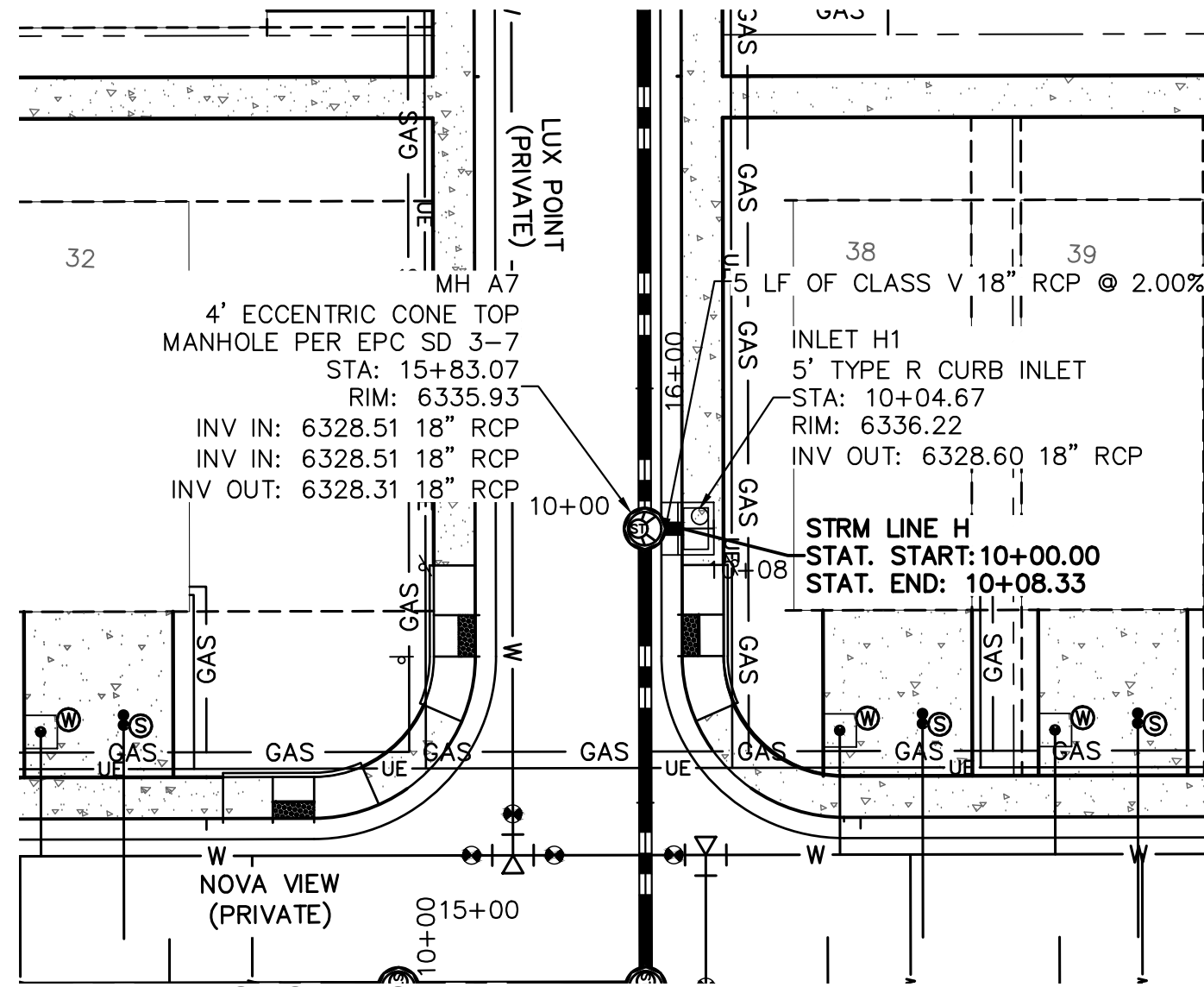
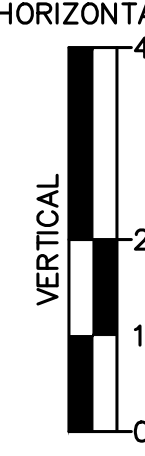
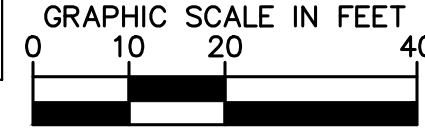
STORM SEWER LINE F PROFILE VIEW



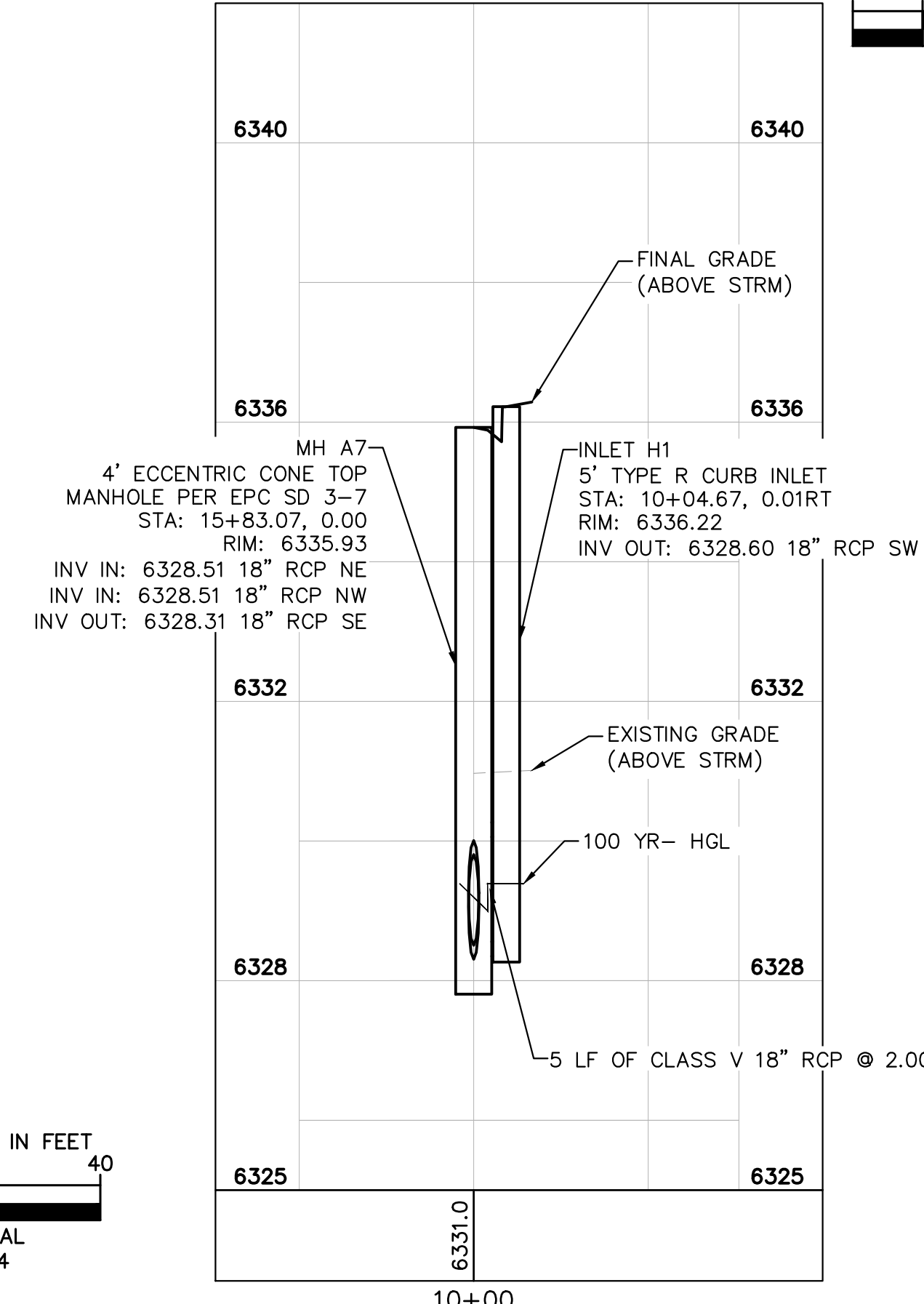
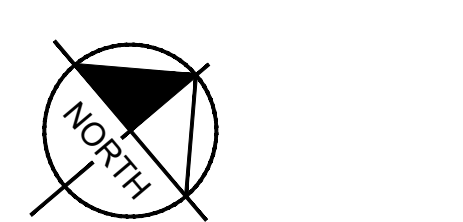
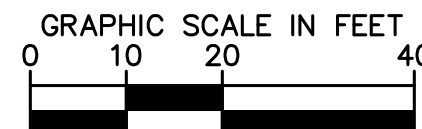
STORM SEWER LINE G PLAN VIEW



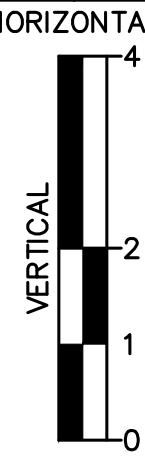
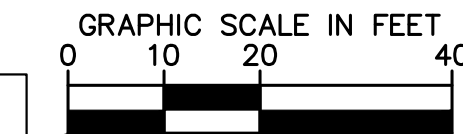
STORM SEWER LINE G PROFILE VIEW



STORM SEWER LINE H PLAN VIEW



STORM SEWER LINE H PROFILE VIEW



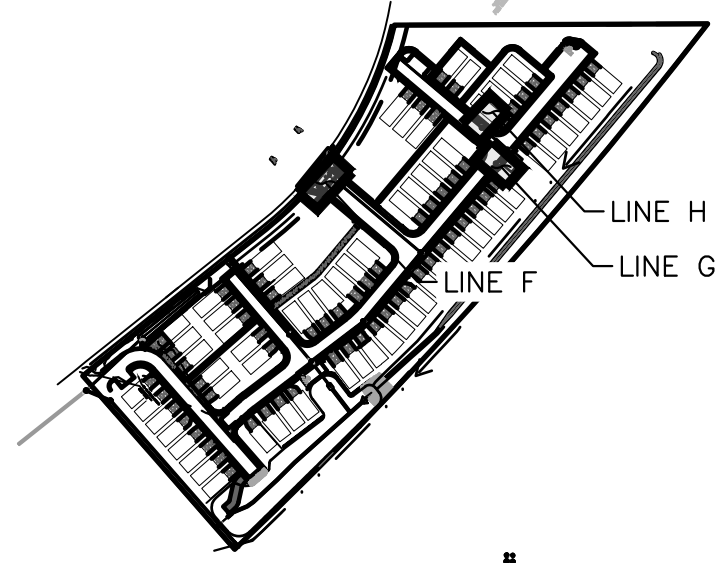
LEGEND:

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- PROPOSED SANITARY SEWER
- SANITARY SEWER MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CURB INLET
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EPC 7/18/22



KEY MAP
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MEADOWBROOK PARK
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UTILITY AND WATER SERVICE PLANS
STORM SEWER PLAN & PROFILES- LINES F, G, & H

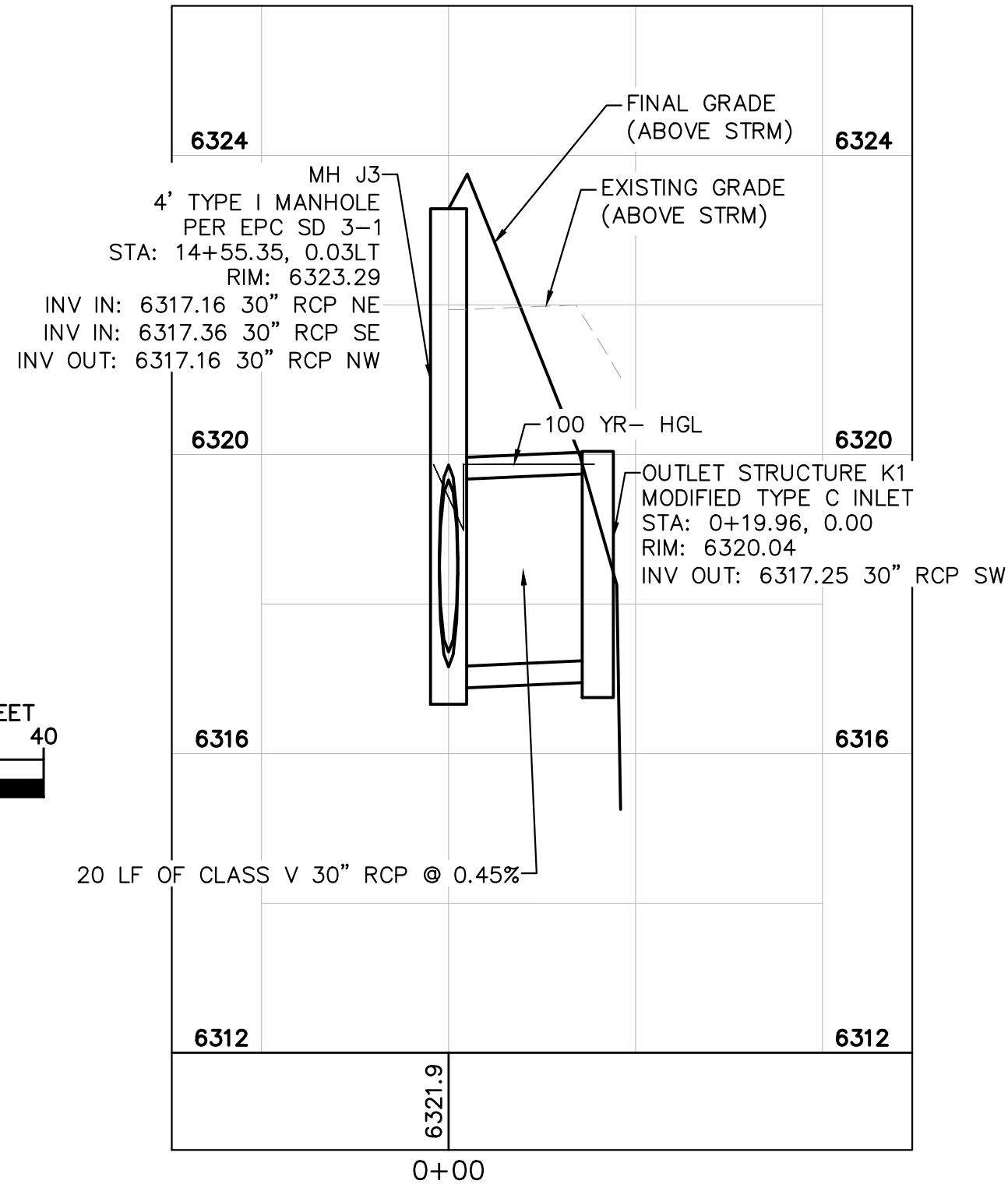
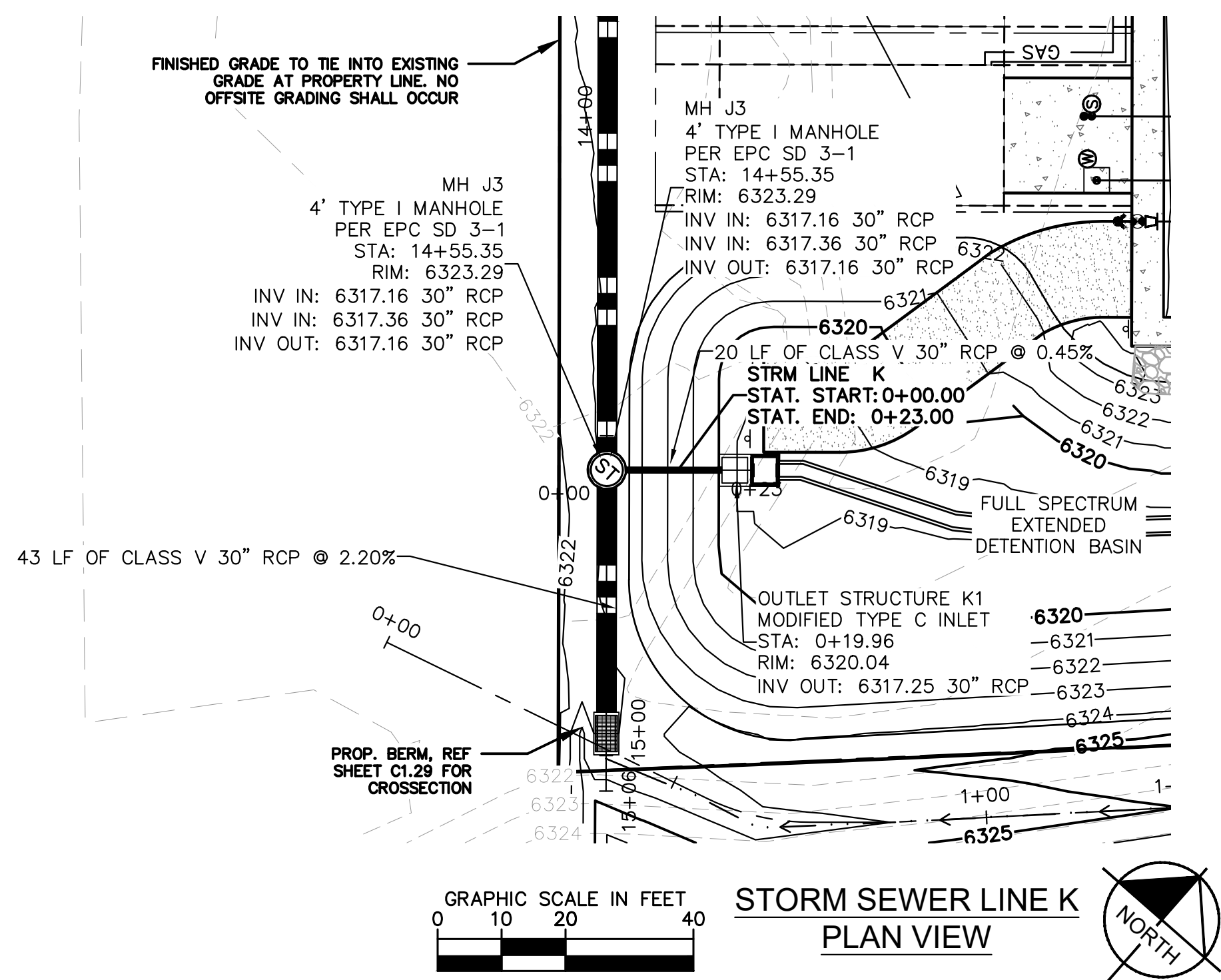
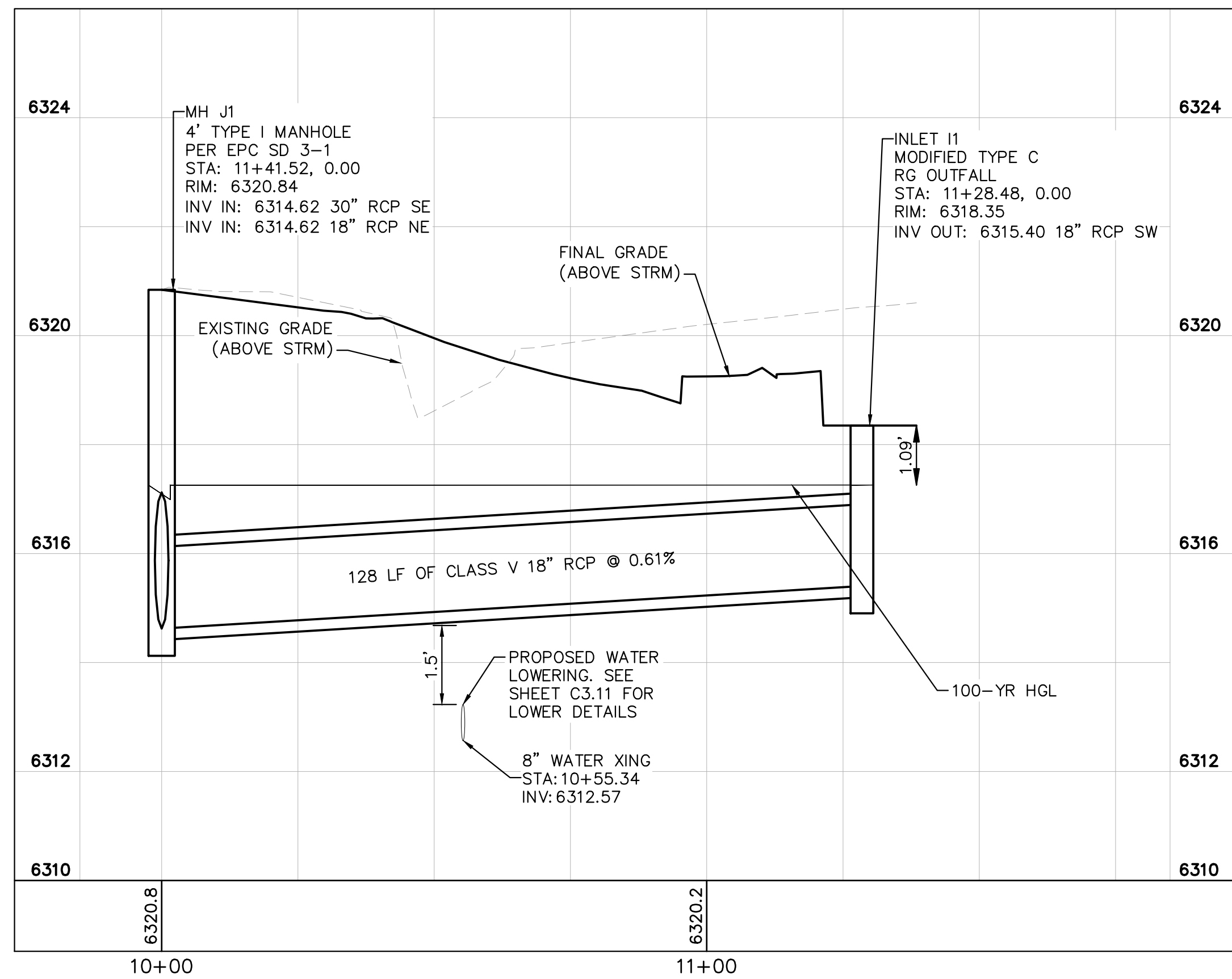
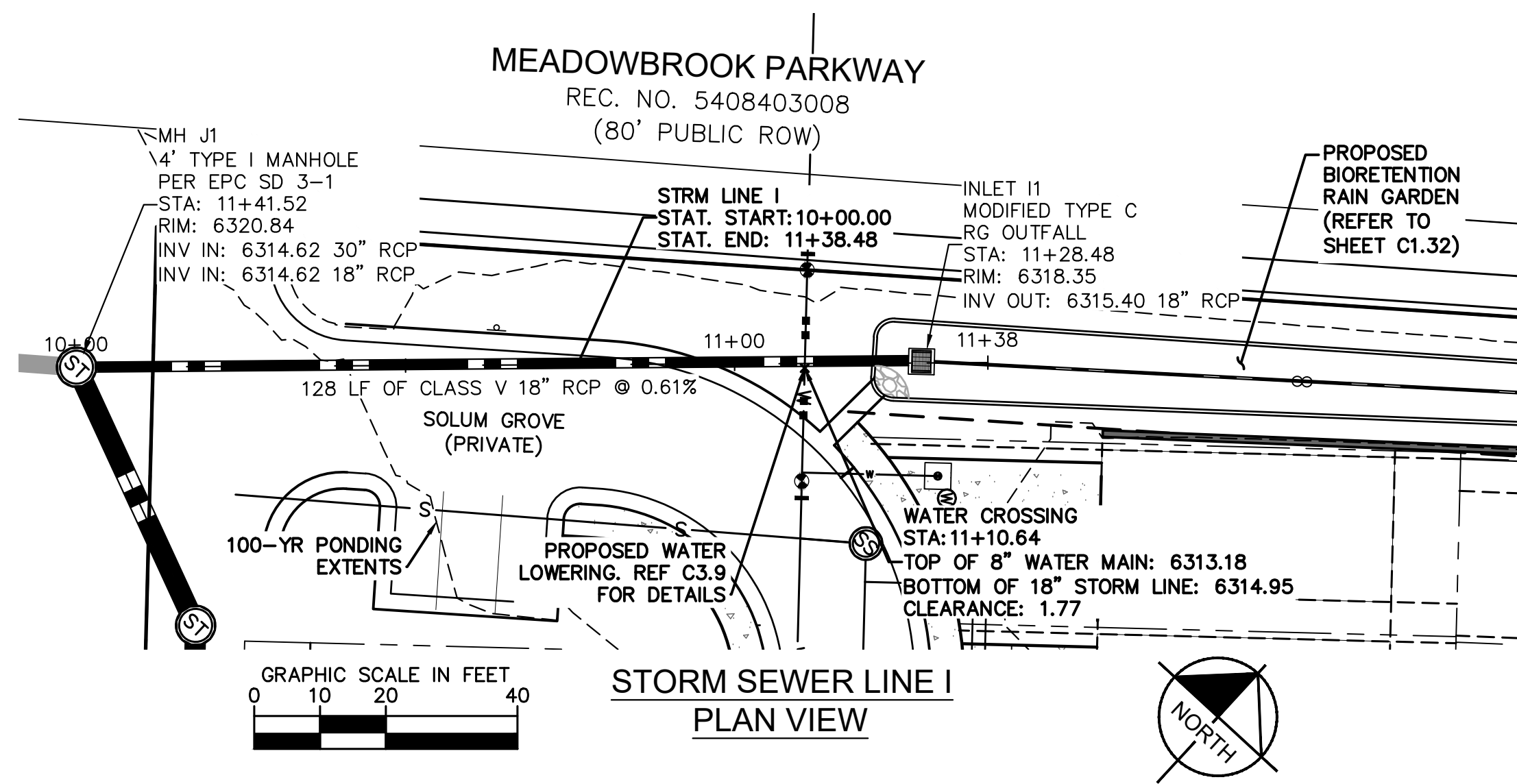


PROJECT NO.
096956009

SHEET
C1.27

NO.	REVISION	BY	DATE	APPR
1	WATER LINE EXTENSION	GP	10/05/21	JRH
2	CHEROKEE METRO COMMENTS	GP	03/14/22	JRH

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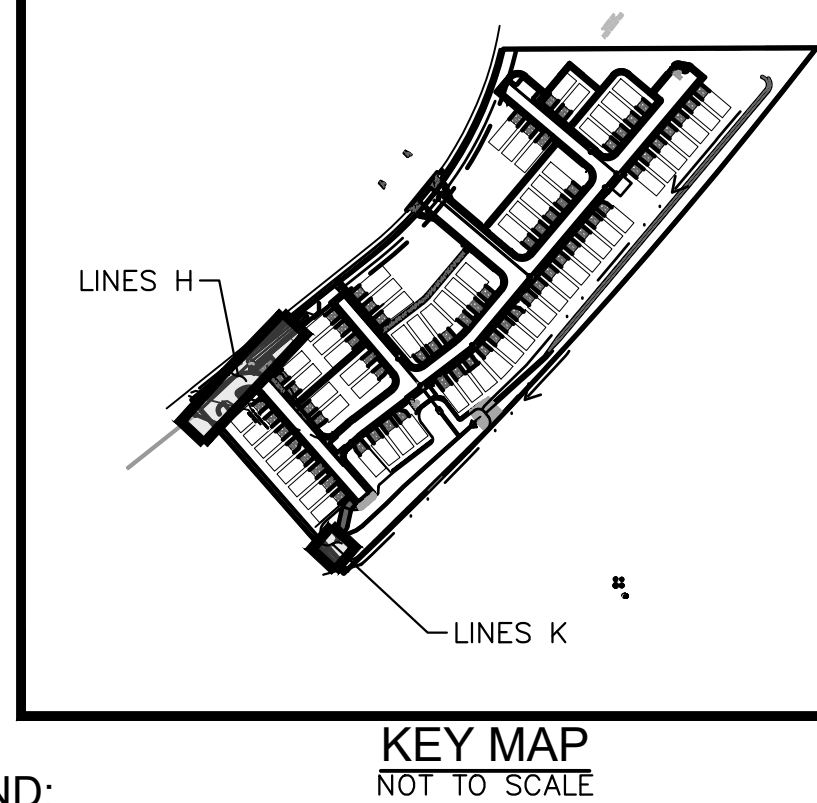


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- PROPOSED EASEMENT LINE
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- PROPOSED STORM SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
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- PROPOSED SANITARY SEWER
- SANITARY SEWER MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
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- ALL STORM SEWER PIPE 12" AND GREATER SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED.
- ALL PRIVATE LANDSCAPE DRAINS SHALL BE NYOPLAST TYPE OR APPROVED EQUIVALENT. RE: UTILITY DETAILS FOR NYOPLAST DETAILED DRAWINGS.
- CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING STORM SEWER AT ALL CONNECTION POINTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO MODIFY EXISTING MANHOLE RIM ELEVATIONS TO MATCH PROPOSED FINISH GRADE AS NECESSARY.

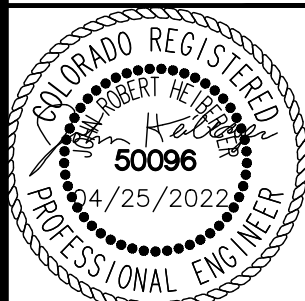


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DRAWN BY: KK
CHECKED BY: JH
DATE: 04/25/2022

MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
UTILITY AND WATER SERVICE PLANS
STORM SEWER PLAN & PROFILES-LINE I&K

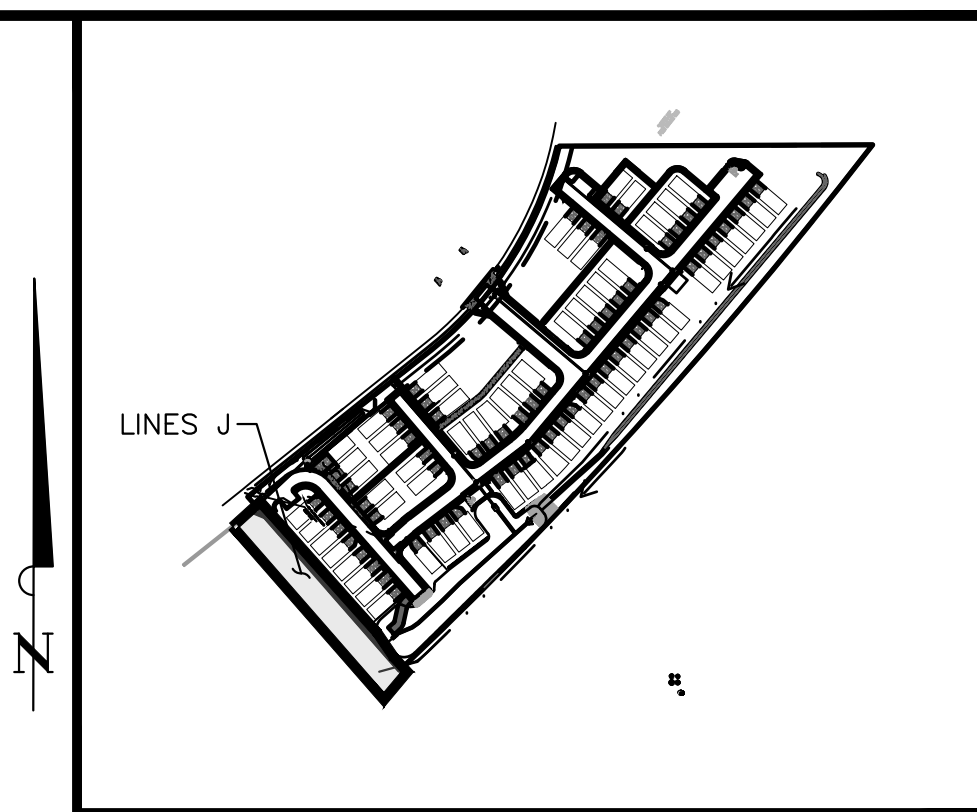
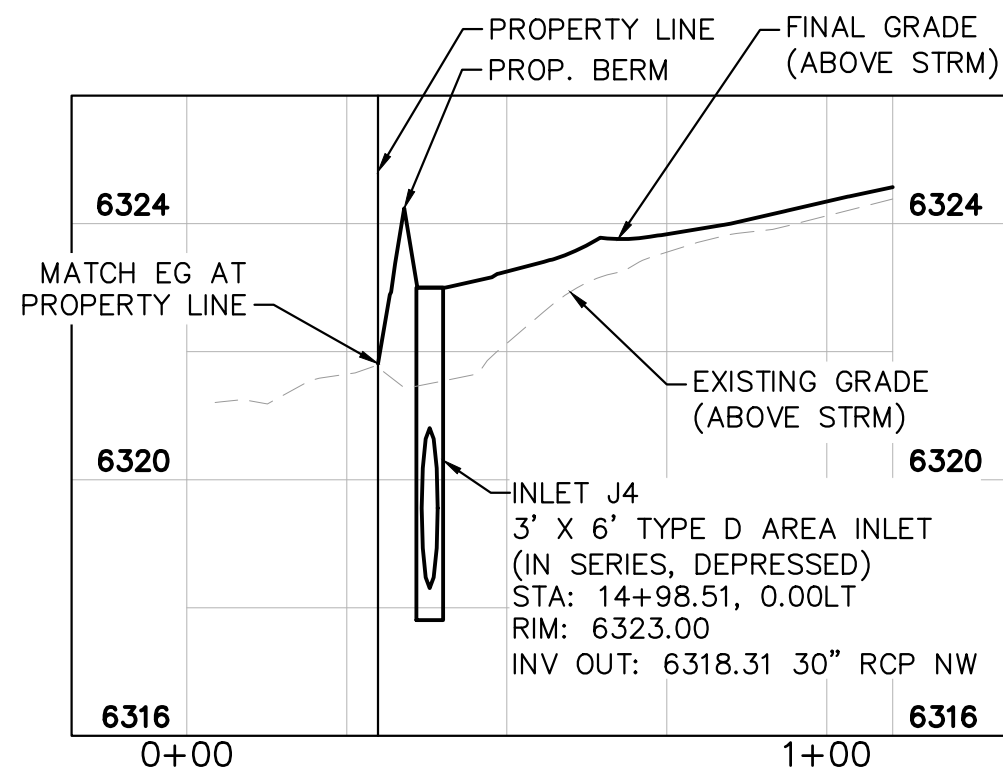
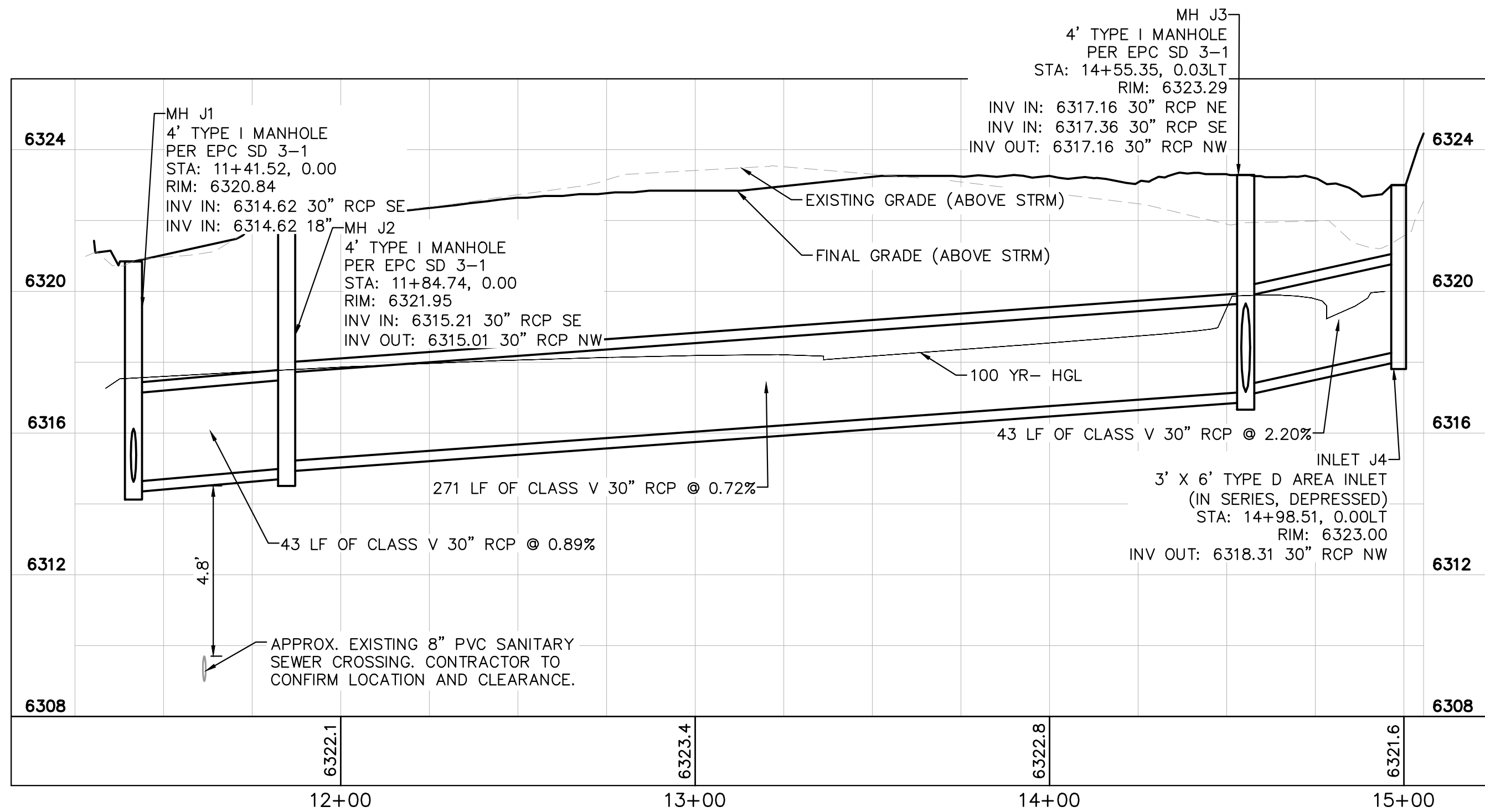
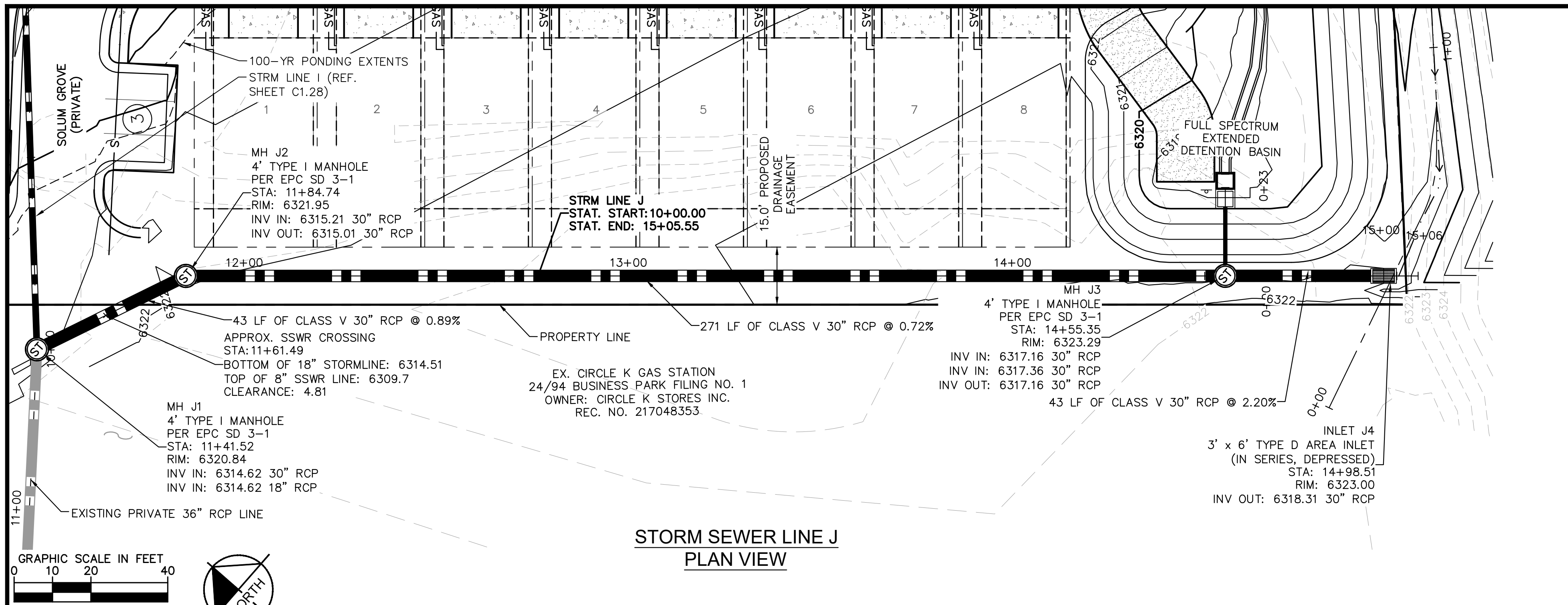


PROJECT NO.
096956009

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EPC 7/18/22

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- LEGEND:**
- PROPERTY LINE
 - EXISTING EASEMENT LINE
 - PROPOSED EASEMENT LINE
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - EXISTING WATER LINE
 - PROPOSED WATER LINE
 - EXISTING FIRE HYDRANT
 - PROPOSED FIRE HYDRANT AND BOLLARD
ASSEMBLY PER COA STD DETAIL 208
 - PROPOSED FIRE DEPARTMENT CONNECTION
W/ APPROVED KNOX HARDWARE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - SANITARY SEWER MANHOLE
 - PROPOSED STORM MANHOLE
 - EXISTING STORM MANHOLE
 - PROPOSED CURB INLET
 - EXISTING CURB INLET
 - PROPOSED GRATE INLET
 - PROPOSED LANDSCAPE DRAIN
 - DAE DRAINAGE ACCESS EASEMENT
 - TOC TOP OF CURB

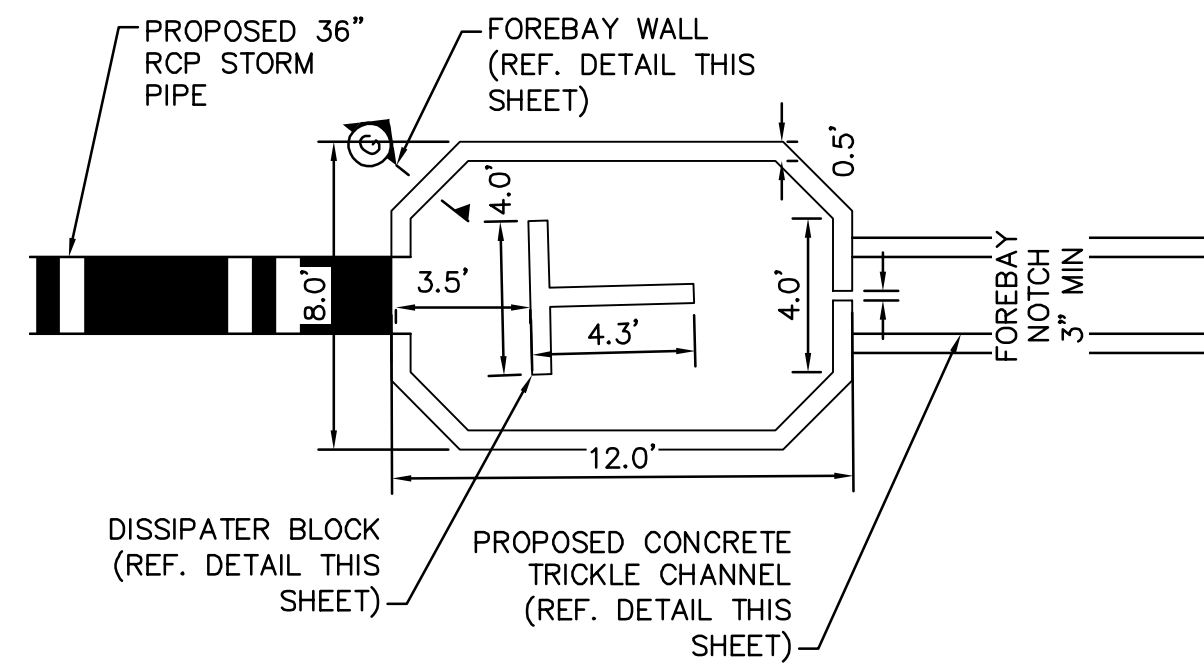
STORM SEWER NOTES:

- MANHOLE RIM ELEVATIONS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL INSTALL MANHOLES IN ACCORDANCE WITH APPLICABLE DETAILS BASED UPON FINAL FINISH GRADING AT MANHOLE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO ACCOMMODATE DEVIATIONS IN SITE GRADING AT NO COST TO THE OWNER.
- CONTRACTOR SHALL MODIFY STANDARD INLET STRUCTURE DIMENSIONS AND STRUCTURAL COMPONENTS TO ACCOMMODATE ASSOCIATED ENTRY AND OUTLET PIPES.
- ALL STORM SEWER MAINS PIPE, INLETS AND MANHOLES ARE PRIVATELY OWNED AND MAINTAINED BY THE METRO DISTRICT OTHERWISE NOTED ON THE PLANS.
- ALL CURB INLET STATIONS ARE BASED ON THE MIDPOINT OF THE CURB INLET AT THE FLOWLINE.
- ALL CURB INLET TOC ELEVATIONS AND STATIONING ARE BASED ON THE MIDPOINT OF THE CURB INLET AT FLOWLINE.
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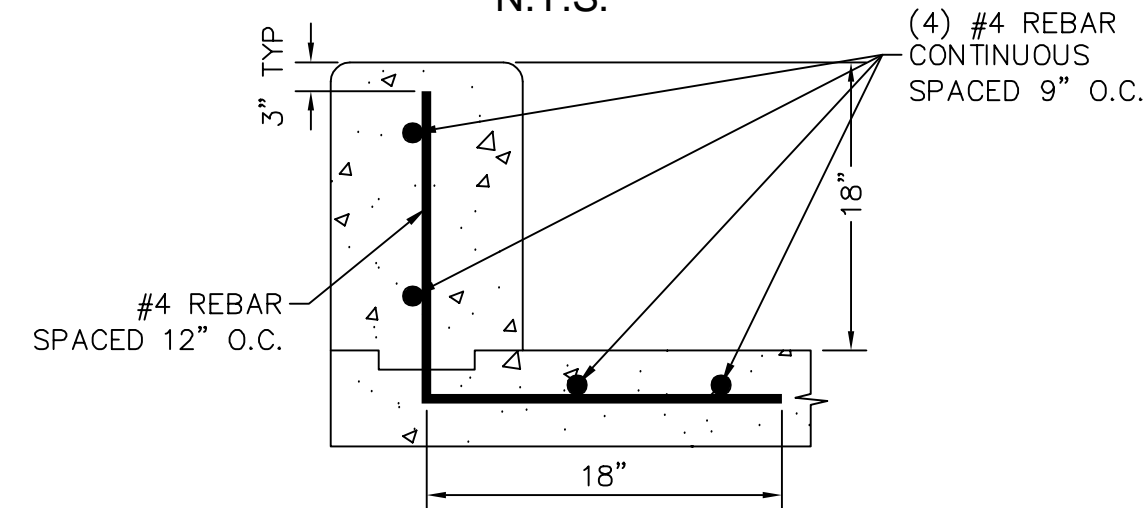
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GP	10/05/21 JRH	WATER LINE EXTENSION	REVISION	BY	DATE	APPR
GP	03/14/22 JRH					
Kimley»Horn 2021 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 300 Colorado Springs, Colorado 80903 (719) 453-0180						
DESIGNED BY: KK DRAWN BY: KK CHECKED BY: JH DATE: 04/25/2022						
MEADOWBROOK PARK EL PASO COUNTY, COLORADO UTILITY AND WATER SERVICE PLANS STORM SEWER PLAN & PROFILES-LINES J & DETAILS						
PROJECT NO. 096956009						
SHEET C1.29						

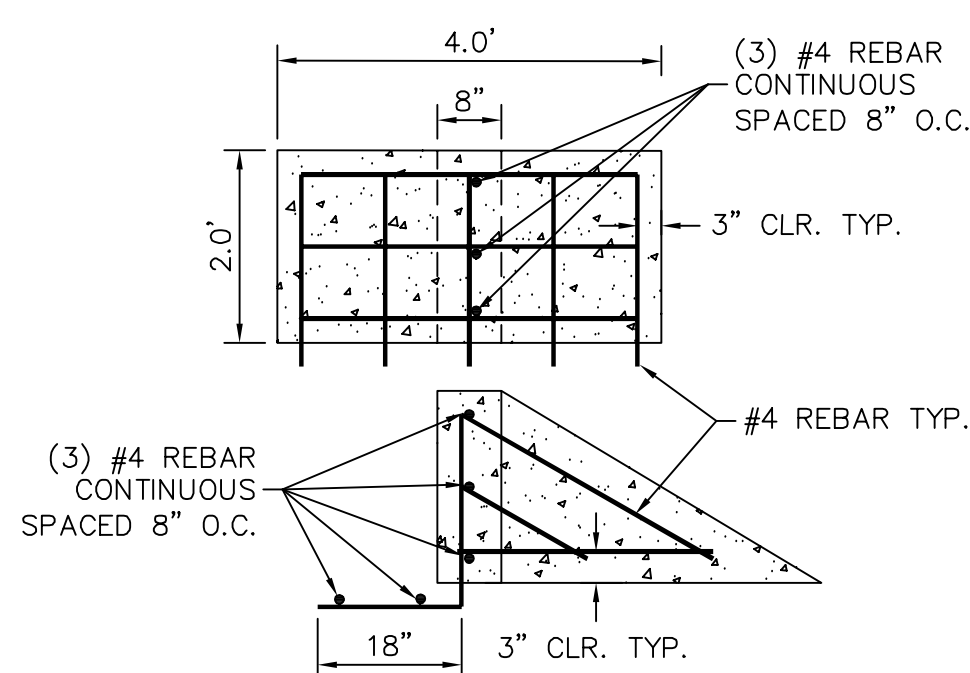
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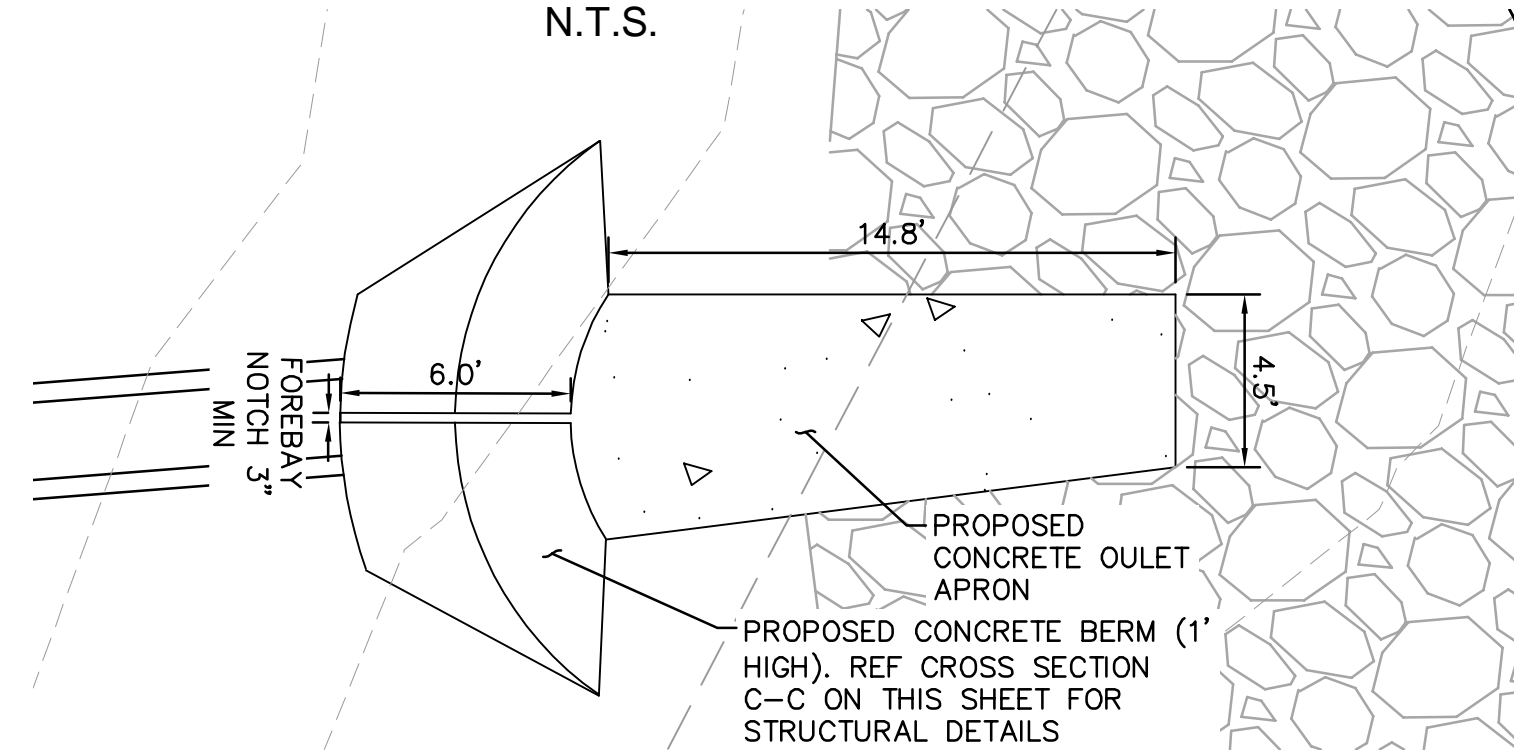
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N.T.S.



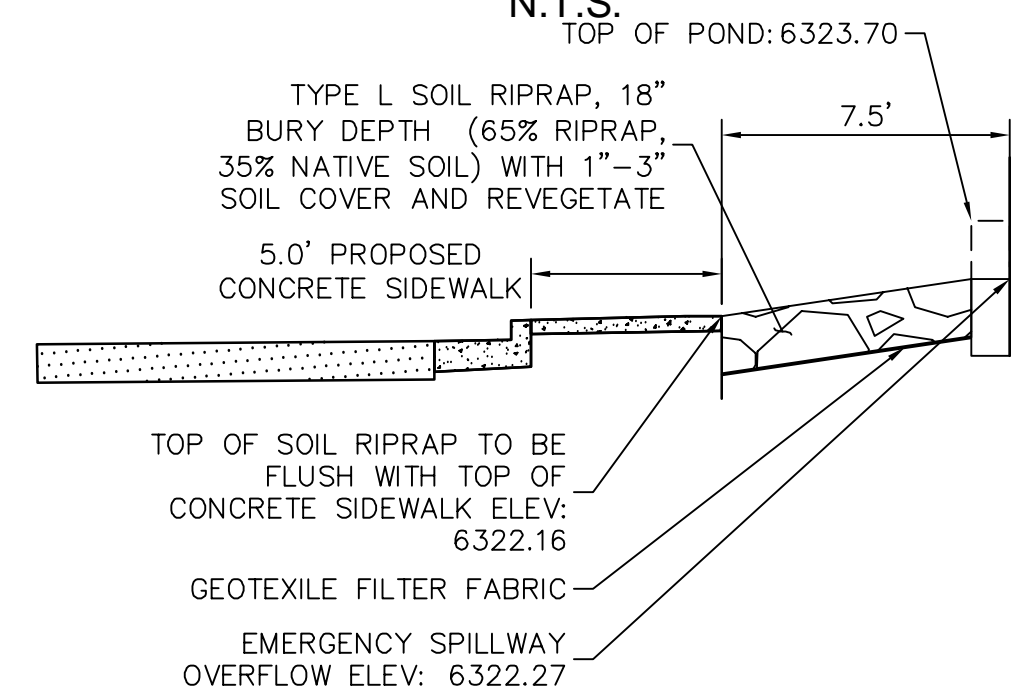
FOREBAY A WALL SECTION G
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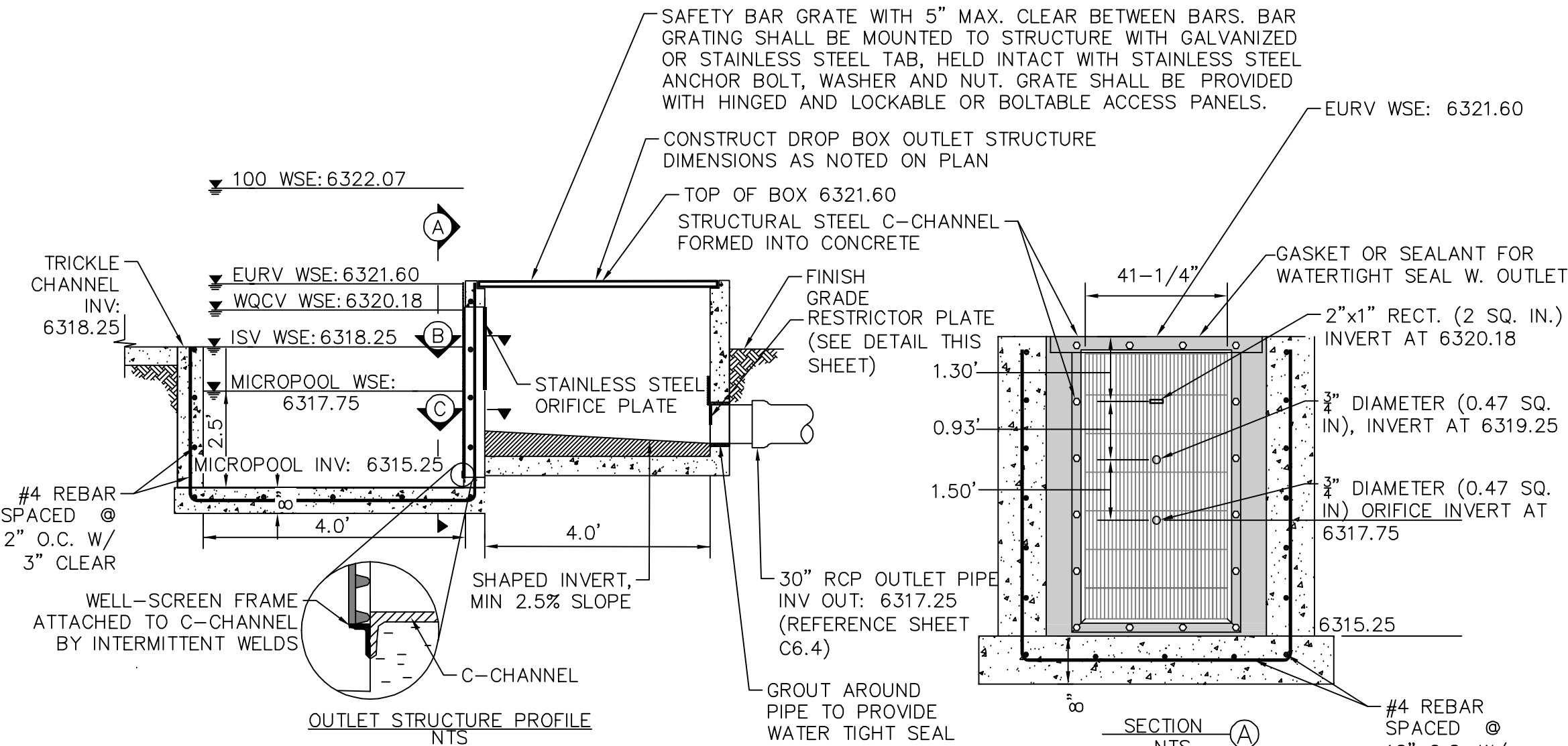
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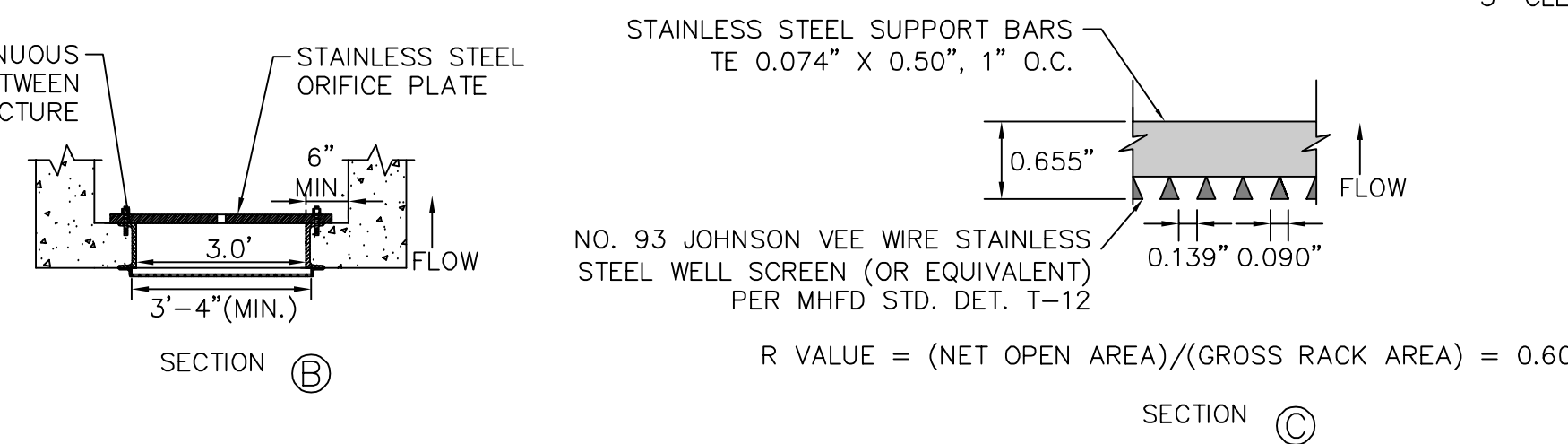
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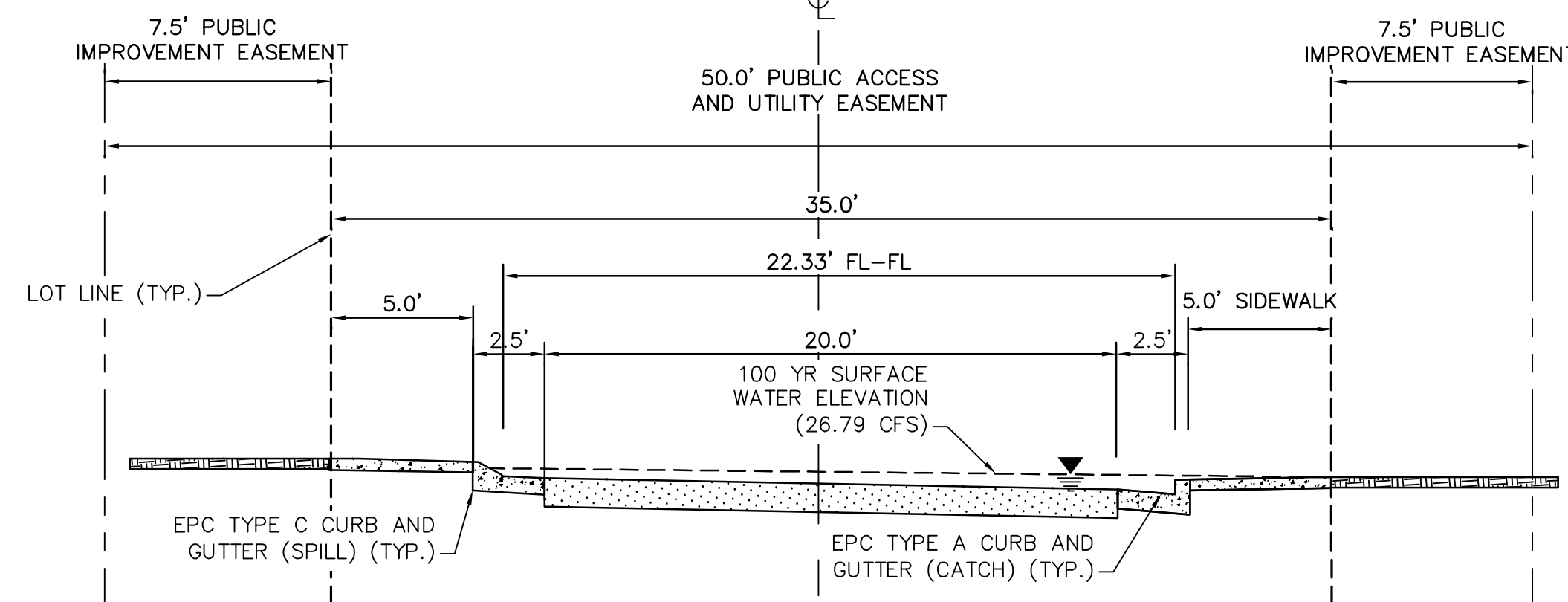
SECTION A-A: EMERGENCY OVERFLOW
SCALE: 1" = 2'



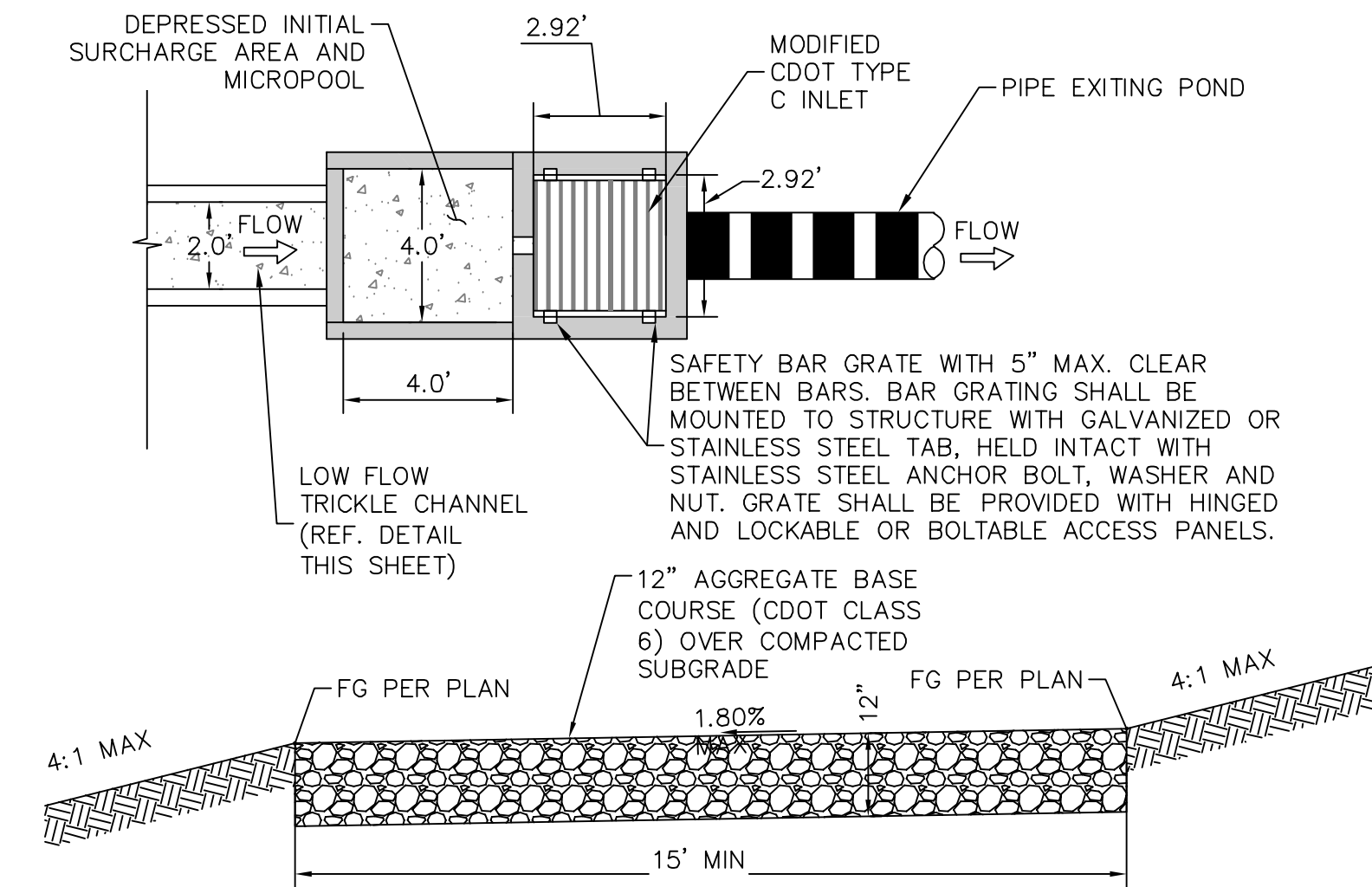
OUTLET STRUCTURE PROFILE DETAIL
N.T.S.



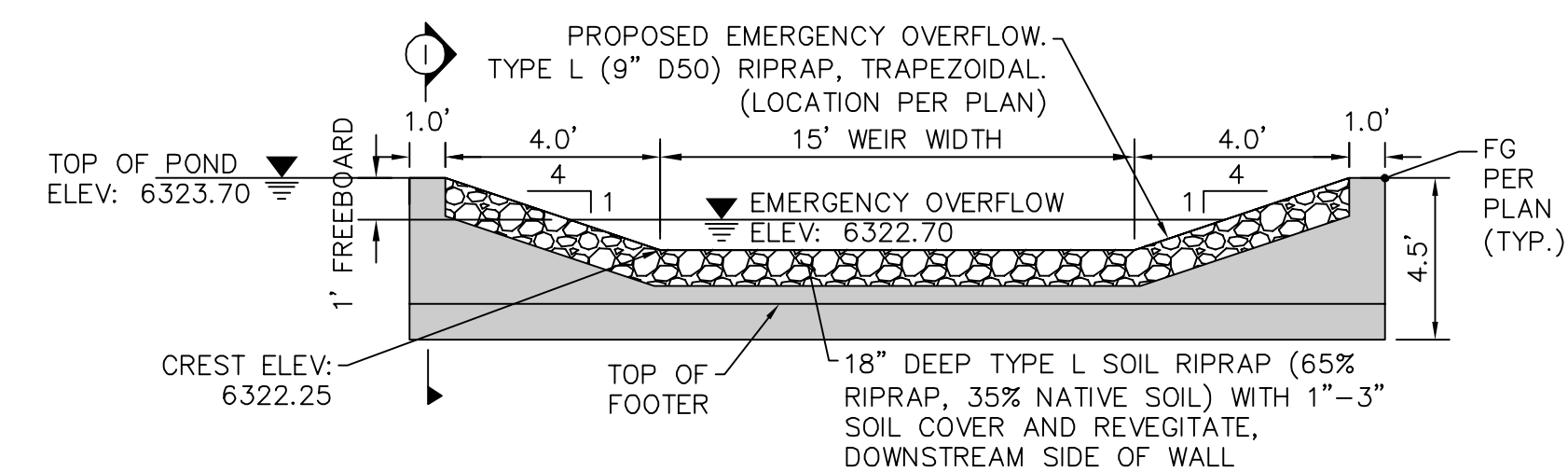
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N.T.S.



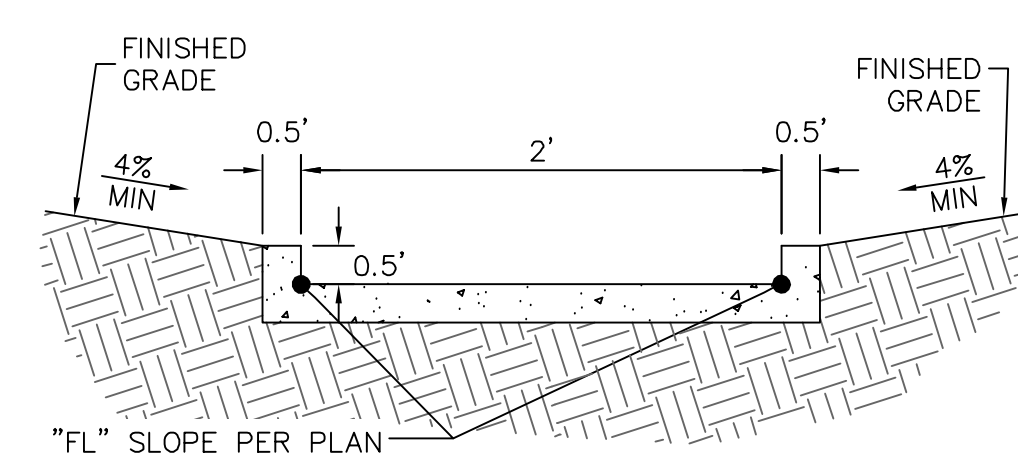
SECTION B-B: SOLUM GROVE CROSS SECTION-
EMERGENCY OVERFLOW PATH
SCALE: 1" = 5'



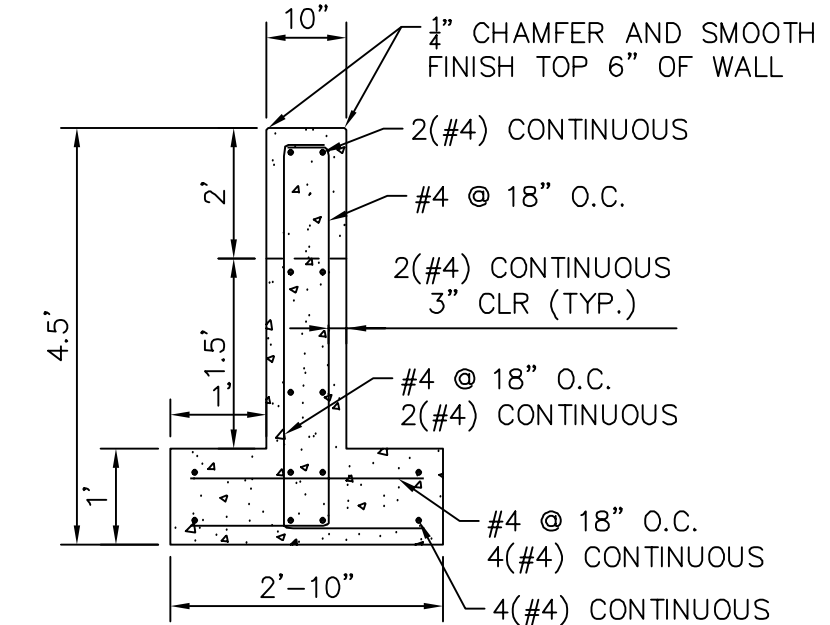
MAINTENANCE ROAD CROSS SECTION
N.T.S.



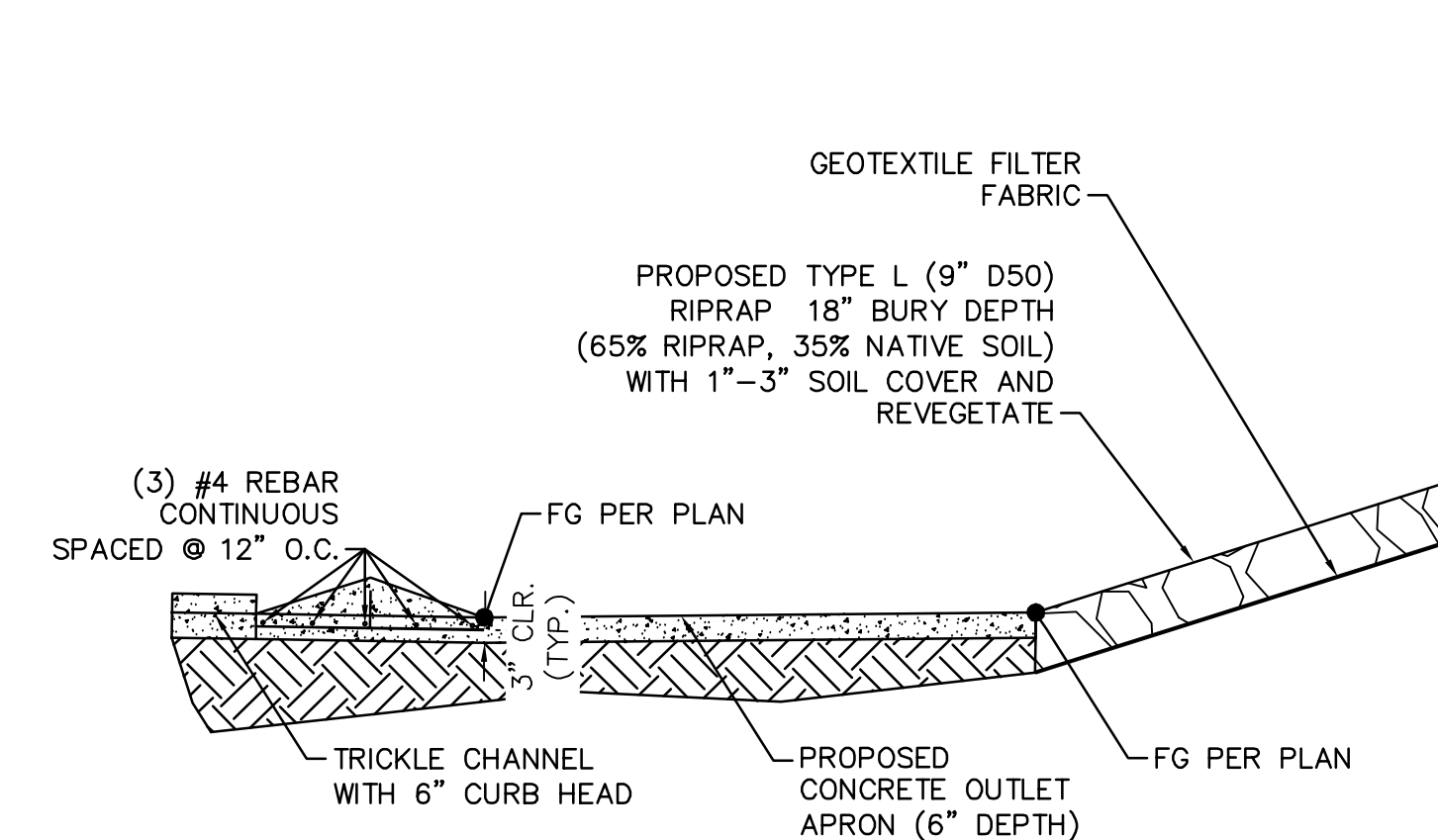
EMERGENCY OVERFLOW CUT-OFF WALL PROFILE
N.T.S.



TRICKLE CHANNEL CROSS-SECTION DETAIL
N.T.S.



EMERGENCY OVERFLOW
CUT-OFF WALL SECTION I
N.T.S.



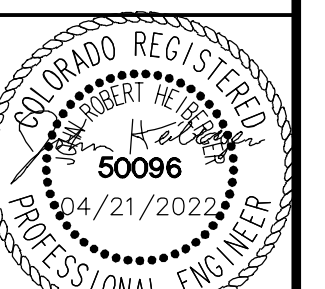
SECTION C-C: CONCRETE BERM, APRON AND
RUNDOWN DETAIL
SCALE: 1" = 5'

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DATE: 06/06/2022

MEADOWBROOK PARK
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CONSTRUCTION DOCUMENTS
POND DETAILS



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Table GS-2. Gradation Specifications for Class C Filter Material
(Source: CDOT Table 703-7)

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

NOTES

- WHERE POSSIBLE, IRRIGATION SYSTEMS SHALL BE INSTALLED IN CONJUNCTION WITH FINISH GRADING. IF IRRIGATION INSTALLATION WILL LAG, BUFFER AND SWALE SHALL BE RESTORED TO ORIGINAL CONDITION FOLLOWING INSTALLATION. DISTURBED MEDIA LAYERS SHALL BE RESTORED, GEOTEXTILES AND EROSION CONTROL BLANKETS SHALL BE REPLACED OR PATCHED, AND FINISH GRADES SHALL BE RESTORED TO THE DESIGNED SLOPES.
- FERTILIZERS SHALL NOT BE APPLIED WHEN HEAVY PRECIPITATION IS ANTICIPATED. APPLICATION SHALL BE IN ACCORDANCE WITH THE SITE'S STANDARD OPERATION PROCEDURES AND THE MANUFACTURER'S RECOMMENDATIONS.
- SEE BMP MATERIAL SPECIFICATIONS, THIS SHEET, FOR ADDITIONAL DETAILS.

BMP MATERIAL SPECIFICATIONS:

SANDY LOAM (GROWING MEDIA)

SANDY LOAM SHALL CONSIST OF NATIVE TOPSOIL (SURFACE 0 – AND A–HORIZONS HAVING MAXIMUM ROOT MASS, ORGANIC MATTER, AND BIOLOGICAL ACTIVITY) STRIPPED FROM GRASSY AREAS OF THE SITE OR A NEARBY SITE AND SHALL MEET THE FOLLOWING PROPERTIES:

ORGANIC MATTER: 2.0% OR GREATER

SOIL TEXTURE: SANDY LOAM OR SANDY CLAY LOAM MEETING THE FOLLOWING COMPONENT RANGES:

SAND OR COARSER 50 – 80 %
SILT 5 – 40 %
CLAY 5 – 25 %
COARSE PARTICLES > 2MM 0 – 20 %

SALTS, SALINITY (ELECTRICAL CONDUCTIVITY, EC) : 0 TO 2 MILL-MHOS PER CENTIMETER (MMHOS/CM) OR DECI-SIEMENS PER METER (DS/M) (MMHOS/CM ARE EQUIVALENT TO DS/M)

SODIUM (SODIUM ADSORPTION RATIO, SAR): 0 TO 4

ACIDITY, ALKALINITY (PH): 6.5 TO 7.5

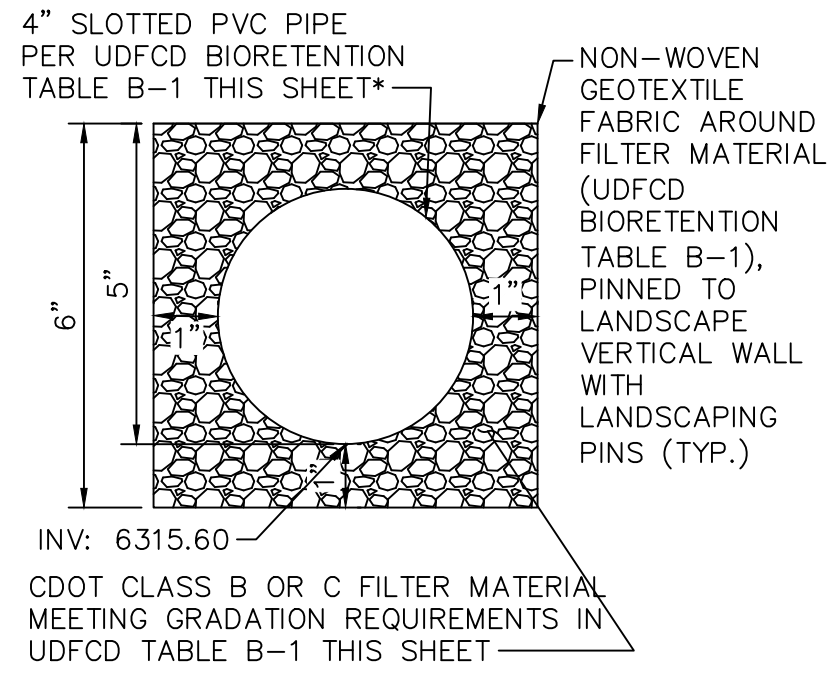
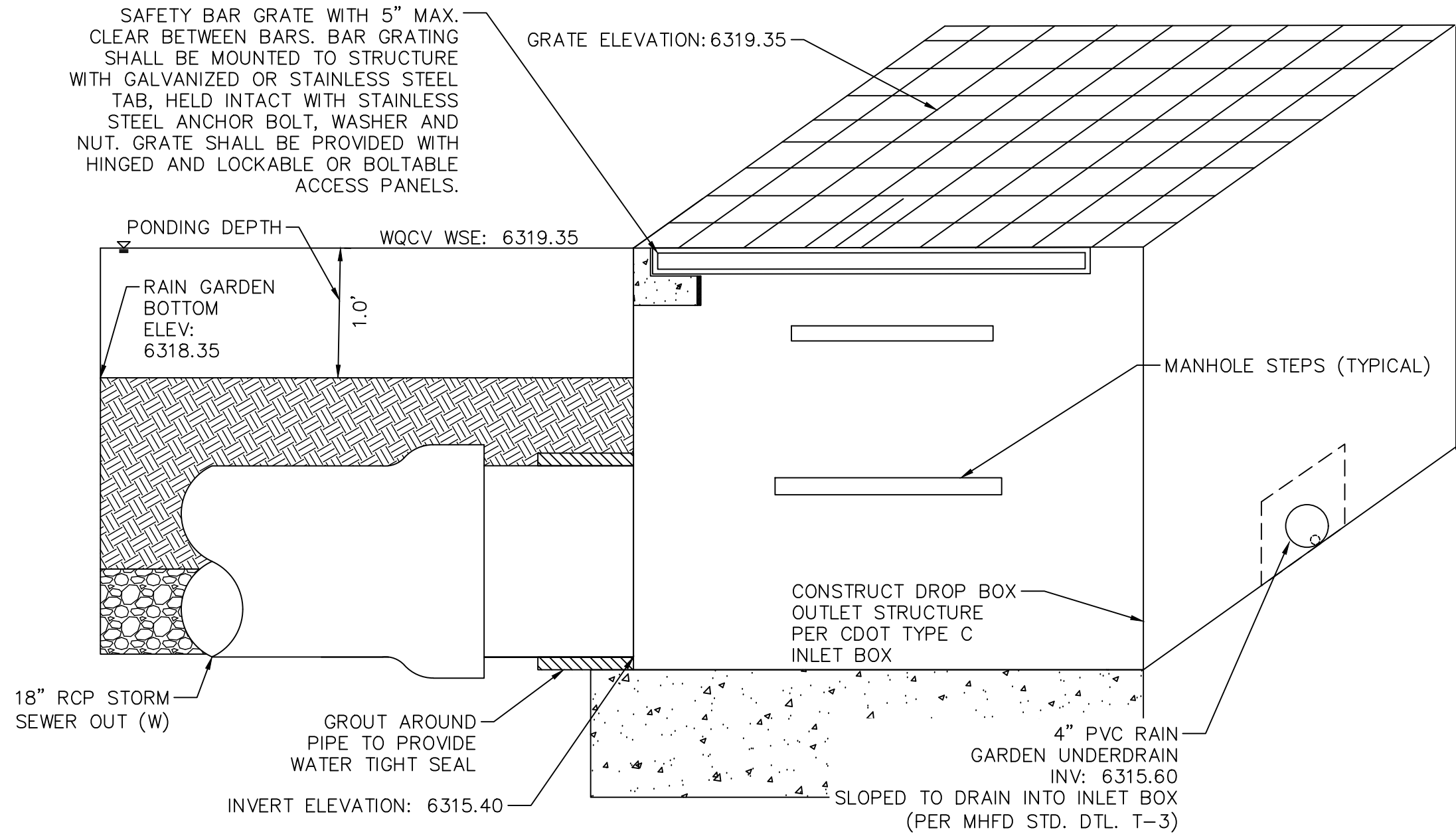
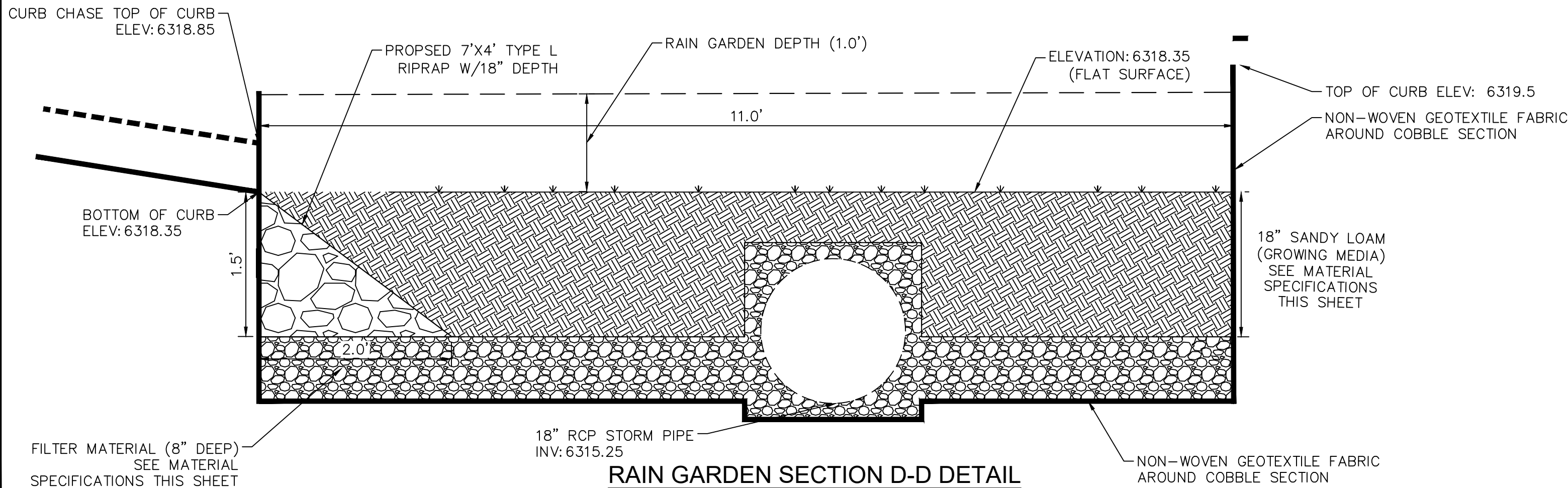
TO DETERMINE ADEQUACY OF SANDY LOAM, AT LEAST THREE REPRESENTATIVE SAMPLES OF THE NATIVE TOPSOIL SHALL RECEIVE A TEXTURAL ANALYSIS AND STANDARD AGRONOMIC TEST BY A QUALIFIED SOIL LAB. IF ORGANIC MATTER OR PH IS OUTSIDE OF THE SPECIFIED RANGE, AMENDMENTS MAY BE RECOMMENDED FOR REVIEW AND APPROVAL OF SEMSWA. ANY RECOMMENDATION FOR AMENDMENTS SHALL INCLUDE DOCUMENTATION OF AMENDMENT PROPERTIES, RATER OF APPLICATION, AND METHOD OF INCORPORATION. THE USE OF CHEMICAL FERTILIZERS OTHER THAN AN ORGANIC SLOW-RELEASE TYPE SUCH AS BIOSOL BY ROCKY MOUNTAIN BIO PRODUCTS IS NOT PERMITTED. THE USE OF ORGANIC MATTER THAT WOULD SIGNIFICANTLY INCREASE SOIL SALINITY IS NOT PERMITTED.

FILTER MATERIAL

FILTER MATERIAL SHALL BE CDOT CLASS C OR APPROVED EQUAL.

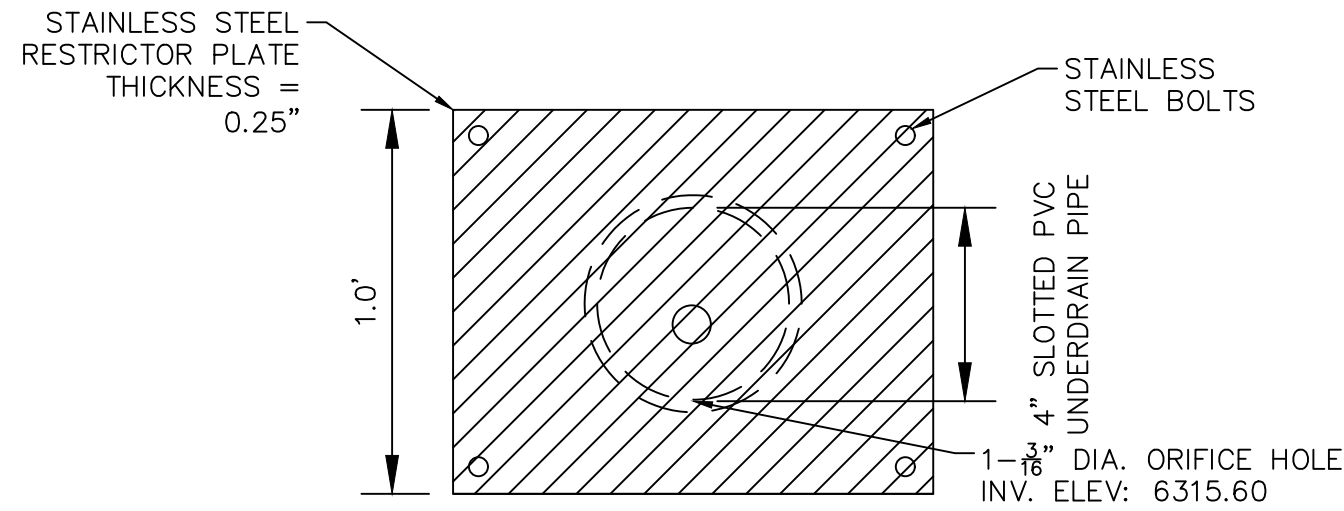
NONWOVEN GEOTEXTILE

PROPERTY	ELONGATION<50%	CRITERION ELONGATION>50%	TEST METHOD
GRAB STRENGTH	800N (180 LBS)	510N (115 LBS)	ASTM D4632
PUNCTURE RESISTANCE	310N (70 LBS)	180N (40 LBS)	ASTM D6241
TRAPEZOIDAL TEAR STRENGTH	310N (70 LBS)	180N (40 LBS)	ASTM D6241
APPARENT OPENING SIZE	0.3MM(No. 50)		ASTM D4751
PERMITTIVITY	0.02 SEC-1 DEFAULT VALUE		ASTM D4491
PERMEABILITY	K FABRIC > K SOIL CM/SEC		ASTM D4491
UV DEGRADATION AT 500 HOURS	50% STRENGTH		ASTM D4355



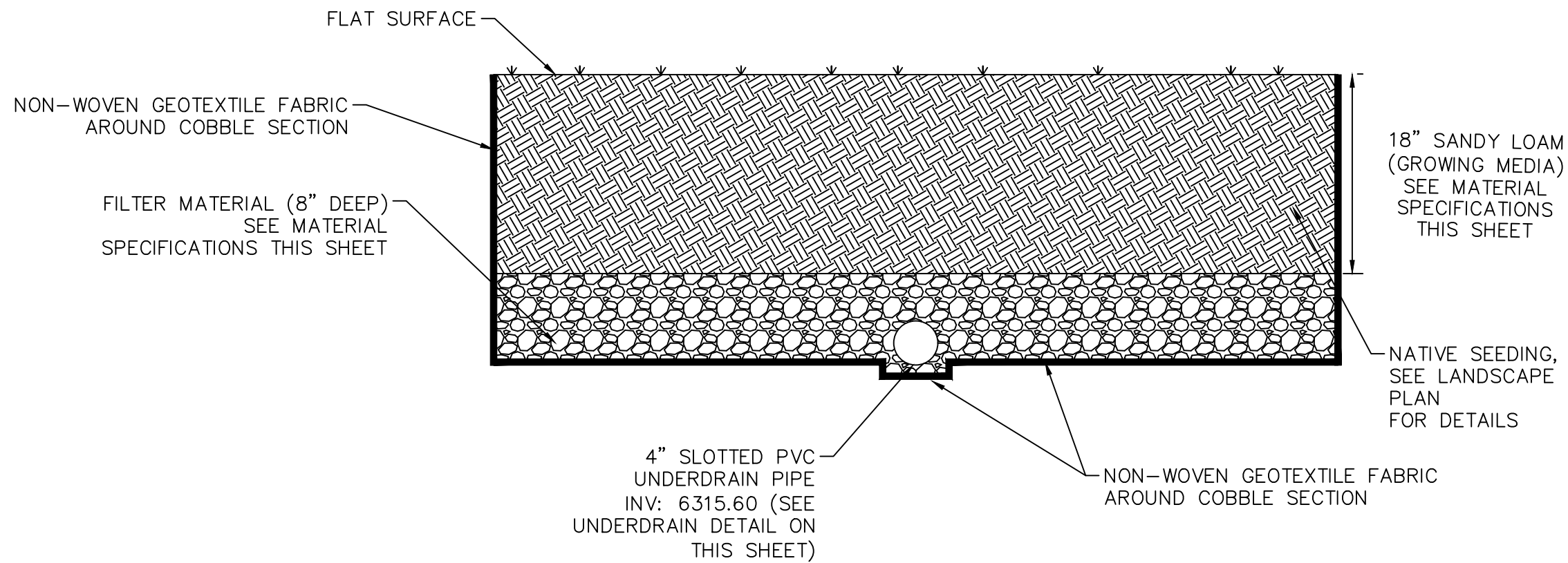
RAIN GARDEN UNDERDRAIN

N.T.S.
*SUBGRADE TO SLOPE TOWARD UNDERDRAIN PER MHFD DETAIL T-3.



FLOW RESTRICTOR DETAIL

N.T.S.



RAIN GARDEN SECTION E-E DETAIL

N.T.S.

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MEADOWBROOK PARK
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
RAIN GARDEN DETAILS



PROJECT NO.
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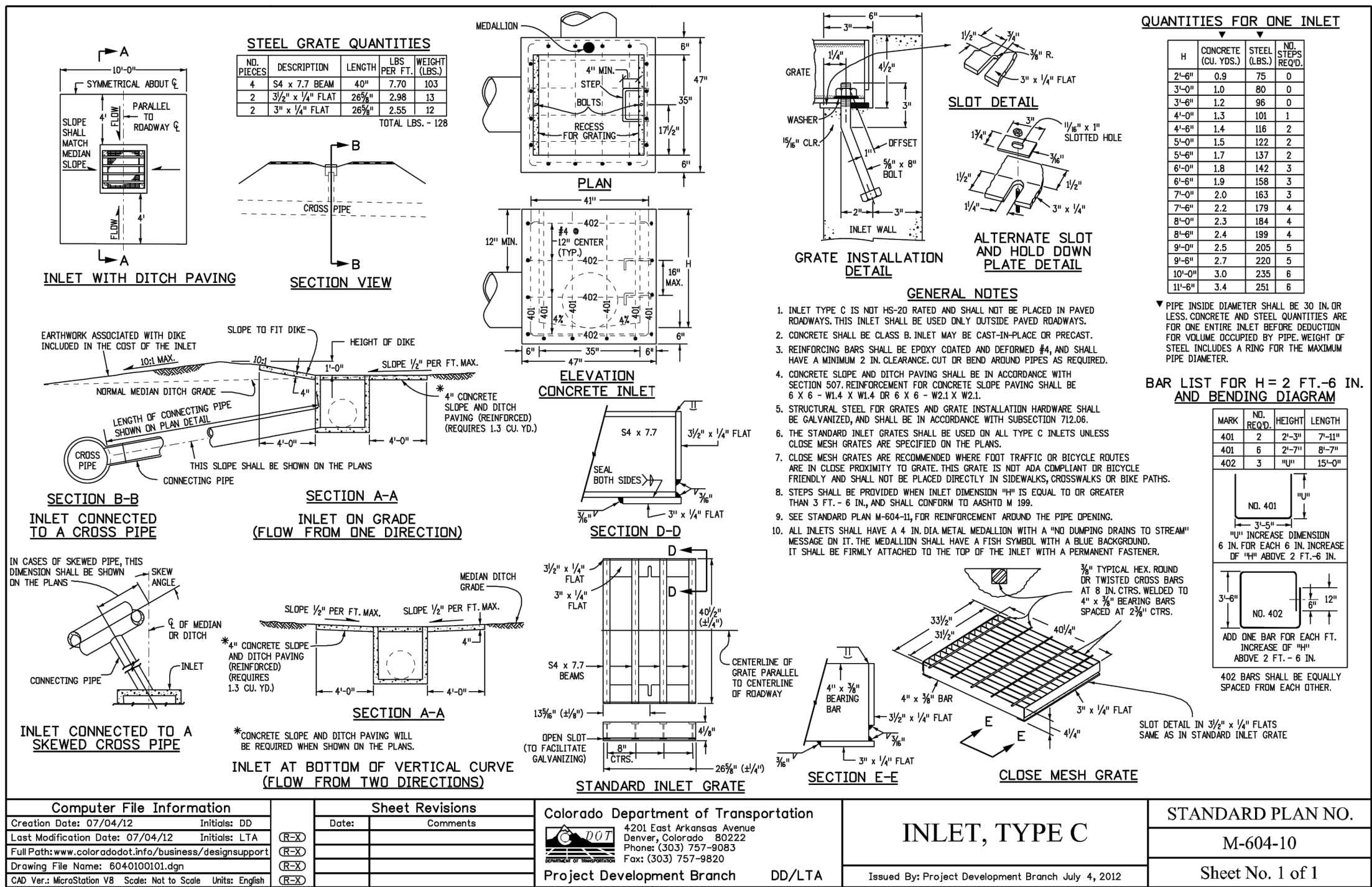
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Material	Specification	Submittals	Testing	Notes
Bioretention Growing Media (soil + organics)	Bioretention soil Particle size distribution: 80-90% sand (0.075 - 2.0 mm diameter) 3-10% silt (0.002-0.5 mm diameter) 3-10% clay (<0.002 diameter) Chemical attribute and nutrient analysis: pH 6.0 - 7.5 organic matter < 15% nitrogen < 15 ppm phosphorus < 15 ppm salinity < 5 mmhos/cm	Particle size distribution and nutrient analysis required.		Percentages are in weight.
	Bioretention organics 3 to 5% shredded mulch (by weight of growing media)			
Landscape mulch	Shredded hardwood			bioretention soil required. Aged 6 months (minimum). No weed fabric allowed.
Underdrain aggregate	CDOT filter material (Class B or C as specified)	Mass Percent Passing Square Mesh Sieve		Particle size distribution required.
Underdrain Pipe	Pipe diameter and type	Maximum slot width (inches)	Minimum open area (per foot)	Required
Impermeable liner	Thickness, % Tolerance	Test method		Required

Table B-1. Material specification for bioretention/rain garden facilities

Bioretention

T-3



Bioretention

T-3

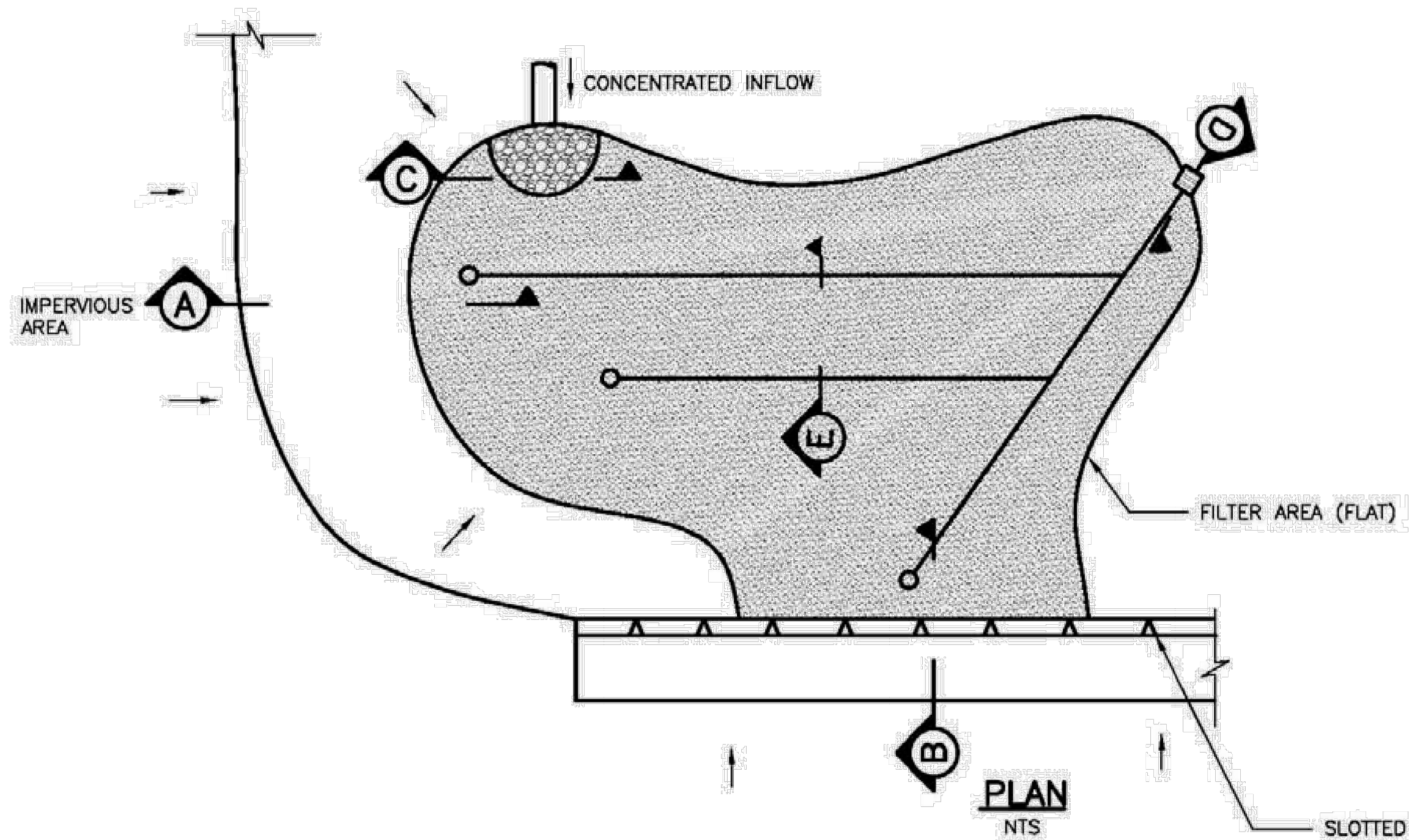


Figure B-1 – Typical Rain Garden Plan and Sections