

Plot Date: 5/29/2023 6:31 PM

User: BENJAMIN SHRIBER

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PUBLIC IMPROVEMENT CONSTRUCTION PLANS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4

OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO

TOWN OF CASTLE ROCK PROJECT NO. CD23-0005



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

OWNER / CONSULTANTS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
6551 S REVERE PKWY, SUITE 265
CENTENNIAL, CO 80111

PHONE: (303) 790-4845
ATTN: O. KARL KASCH, DISTRICT MANAGER
EMAIL: VCRMETRO4@CIMARRONLA.COM

KENNEDY/JENKS CONSULTANTS - METRO DISTRICT ENIGNEER
165 S UNION BOULEVARD, SUITE 570
LAKEWOOD, COLORADO 80228

PHONE: (720) 744-2215
ATTN: LISA SCHWIEN, P.E.
EMAIL: LISASCHWIEN@KENNEDYJENKS.COM

REGULATORY AGENCIES AND UTILITIES

TOWN OF CASTLE ROCK PUBLIC WORKS DEPT.
4175 N CASTLETON COURT
CASTLE ROCK, CO 80109

PHONE: (720) 733-2462
ATTN: DAN SAILER
EMAIL: DSAILER@CRGOV.COM

UTILITY NOTIFICATION CENTER OF COLORADO
2801 SOUTH YOUNGFIELD STREET, SUITE 301
GOLDEN, COLORADO 80401

PHONE: 1-800-922-1987 OR 811

CASTLE ROCK WATER
175 KELLOG COURT
CASTLE ROCK, CO 80109

PHONE: (720) 733-6000
ATTN: MARK MARLOWE
EMAIL: WATER@CRGOV.COM

BLACK HILLS ENERGY
7001 MOUNT RUSHMORE ROAD
RAPID CITY, SD 57702

PHONE: 888 890 5554

CORE ENERGY
5496 NORTH US HWY 85
SEDALIA, CO 80135

PHONE: (303) 688-3100

CENTURY LINK
1025 ELDORADO BLVD
BROOMFIELD, CO 80021

PHONE: 720 888 1000

SURVEY NOTES

- DESIGN SURVEY PERFORMED BY: AZTEC CONSULTANTS
300 E MINERAL AVE, #1
LITTLETON, CO 80122
CONTACT: BRADY MOORHEAD, PLS
PHONE: (303) 327-7499
- PROJECT BENCHMARK:
DOUGLAS COUNTY GIS MONUMENT NUMBER 4.020000 BEING A 3 1/4" ALUMINUM ALLOY CAP STAMPED "DOUGLAS COUNTY GIS 4.020000" LOCATED ON THE NORTH SIDE OF PLUM CREEK PARKWAY, APPROXIMATELY 750 FEET EAST OF THE INTERSECTION OF PLUM CREEK PARKWAY AND EATON STREET, CLOSE TO THE NORTH RIGHT OF WAY FENCE. ELEVATION = 6463.39 (NAVD88)
- PROJECT CONTROL STATEMENT:
PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL ZONE 83 (2011) COORDINATES. PROJECT COORDINATES ARE DERIVED FROM STATE PLAN COORDINATES USING THE FOLLOWING FORMULAS:
PROJECT NORTHING = (STATE PLANE NORTHING * 1.0003714153) - 999,966.313'
PROJECT EASTING = (STATE PLAN EASTING * 1.0003714153 - 2.999.930.328'

DRAWING LIST:		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	G-01	COVER SHEET I
2	G-02	COVER SHEET II
3	G-03	TOWN OF CASTLE ROCK NOTES
4	C-01	SANITARY SEWER MAIN PLAN AND PROFILE - STA 0+00 TO STA 8+50
5	C-02	SANITARY SEWER MAIN PLAN AND PROFILE - STA 8+50 TO STA 16+00
6	C-03	SANITARY SEWER MAIN PLAN AND PROFILE - STA 16+00 TO STA 24+00
7	C-04	SANITARY SEWER MAIN PLAN AND PROFILE - STA 24+00 TO STA 29+00
8	C-05	SANITARY SEWER MAIN PLAN AND PROFILE - STA 29+00 TO STA 36+00
9	C-06	SANITARY SEWER MAIN PLAN AND PROFILE - STA 36+00 TO STA 42+40
10	C-07	SANITARY SEWER MAIN PLAN AND PROFILE - SEWER LATERALS STA 18+21.49 AND STA 39+12.51
11	D-01	DETAILS I
12	D-02	DETAILS II
13	D-03	DETAILS III

FIELD CHANGE ORDER TABLE:

FCO#	DATE	PURPOSE/DESCRIPTION

VARIANCES TABLE:

VAR. PROJ. NO.	DESCRIPTION	APPROVAL DATE	CONDITIONS OF APPROVAL
TCV23-0005	MINIMUM COVER OVER SANITARY SEWER MAIN		
TCV23-0013	DROP THROUGH MANHOLE		

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

THESE PLANS HAVE BEEN REVIEWED BY THE TOWN OF CASTLE ROCK FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT, THE TOWN ENGINEER, OR THE TOWN OF CASTLE ROCK FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE TOWN FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK MUNICIPAL CODE, TECHNICAL MANUALS AND/OR OTHER TOWN-APPROVED APPLICABLE STANDARDS.

PROFESSIONAL ENGINEER'S CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

SIGN _____ DATE _____

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM
DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY: _____

DEVELOPMENT SERVICES _____ DATE _____

ISSUED FOR BID

ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.

SCALES
0" = 1"
0" = 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

PRELIMINARY
NOT FOR
CONSTRUCTION

DESIGNED
BAS/ EAW
DRAWN
BAS
CHECKED
LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO

OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1



COVER SHEET I

SCALE
NTS
JOB NO
1946051'00
DATE
MAY 2023
SHEET 1 OF 13
G-01

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User: BENJAMIN SHRIBER

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4

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TOWN OF CASTLE ROCK COVER SHEET GENERAL NOTES

1.

ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF CASTLE ROCK (TCR) MUNICIPAL CODE, TCR TECHNICAL MANUALS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE TECHNICAL MANUAL OR ANY APPLICABLE STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.
2.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
3.

THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4.

THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TOWN AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5.

CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CR WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.
6.

THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE CRITERIA AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ONSITE AT ALL TIMES.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8.

IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE TCR CONSTRUCTION INSPECTOR IMMEDIATELY.
9.

ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD UNLESS SPECIFICALLY STATED OTHERWISE.
10.

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (TOWN, COUNTY OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR AS DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.
12.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE AND AVAILABLE TO THE TCR CONSTRUCTION INSPECTOR AT ALL TIMES.
13.

DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
14.

ALL INITIAL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) PLAN PRIOR TO ANY EARTH-DISTURBING ACTIVITY. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES.
15.

THE CONTRACTOR SHALL PROVIDE AN ACTION PLAN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING DETAILING SUFFICIENT MEANS TO MITIGATE DUST ON SITE DURING OVERLOT GRADING, ROCK CRUSHING OR OTHER EARTHWORK ACTIVITIES. IF THE CONTRACTOR FAILS TO CONTROL DUST, ALL EARTH DISTURBING ACTIVITIES SHALL BE STOPPED UNTIL SUFFICIENT MEASURES ARE TAKEN TO THE TOWN'S SATISFACTION. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO AIR QUALITY REGULATIONS FOR LAND DEVELOPMENT, AS REQUIRED.
16.

THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
17.

THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS UNLESS SPECIFICALLY APPROVED BY THE TCR CONSTRUCTION INSPECTOR AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.
18.

NO SOLID OBJECT (EXCLUDING FIRE HYDRANTS AND TRAFFIC CONTROL DEVICES AND TRAFFIC SIGNS) EXCEEDING THIRTY(30) INCHES IN HEIGHT ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT STREET, INCLUDING BUT NOT LIMITED TO BUILDINGS, UTILITY CABINETS, WALLS, FENCES, LANDSCAPE PLANTINGS, CROPS, CUT SLOPES, AND BERMS, SHALL BE PLACED WITHIN SIGHT DISTANCE LINES AND SIGHT DISTANCE EASEMENTS.
19.

THIS PROPERTY IS LOCATED WITHIN FEMA FIRM PANEL NO. 08035C0302G DATED MARCH 16, 2016, REVISED AUGUST 6, 2021.
20.

SURVEY PERFORMED AS PART OF PREVIOUS TCR PROJECT TO WIDEN PLUM CREEK PARKWAY IN THE PROJECT AREA. REFER TO G-01 FOR BENCHMARK AND BEARING INFORMATION.

LEGEND

	TCE	TEMPORARY CONSTRUCTION EASEMENT
	ESMT	EASEMENT
		BACK OF CURB
		FACE OF CURB
	CTV	CABLE TELEVISION LINE
	X	FENCE
		OVERHEAD POWER
		SANITARY SEWER MANHOLE
		GAS VALVE
		POWER POLE
		TELEPHONE PEDESTAL
		SIGN
		PRESSURE REDUCING VALVE IN MANHOLE
	P/L	ADJOINING PROPERTY LINE
		EASEMENT LINE
		RIGHT-OF-WAY LINE
	SS	EXISTING SANITARY SEWER LINE
		PROPOSED SANITARY SEWER LINE
	P	UNDERGROUND POWER LINE
	OH	OVERHEAD POWER LINE
	W	UNDERGROUND WATER LINE
	G	UNDERGROUND GAS / HP GAS LINE
	T	UNDERGROUND TELEPHONE LINE
		UNDERGROUND STORM LINE (SIZE VARIES)
	-5280-	CONTOUR LINE
		SANITARY SEWER MANHOLE
		STREET SIGN
		WATER VALVE
		WATER METER
		SURVEY CONTROL / PANEL POINT
		FIRE HYDRANT
		TREE
		STORM MANHOLE
		STORM INLET
		BOLLARD
		TELEPHONE PED
		FIBER BOX
		TRAFFIC CONTROL BOX
		CABLE TV BOX
		BENCHMARK
		FIBER MANHOLE
		VENT PIPE
		PROPERTY PIN
		TRAFFIC CONTROL VALVE
		WATER MANHOLE
		FIBER SIGN
		UTILITY BOX
		UTILITY POLE

SUE QUALITY LEVEL

ALL EXISTING SUBSURFACE UTILITIES CROSSING THE PROPOSED 8" SANITARY SEWER PIPE WERE LOCATED TO ASCE QUALITY LEVEL A STANDARDS. ALL OTHER EXISTING SUBSURFACE UTILITIES SHOWN ON THESE PLANS WERE LOCATED TO ASCE 38 QUALITY LEVEL B STANDARDS. THE CONTRACTOR SHALL REQUEST LOCATE INFORMATION FOR THE PROJECT PRIOR TO ANY EXCAVATION. KENNEDY/JENKS DOES NOT GUARANTEE THE LOCATIONS OF THE UTILITIES SHOWN OR THAT THE UTILITIES SHOWN INCLUDE ALL UTILITIES IN THE AREA. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL THE APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

QUALITY LEVEL - A: (3D INFORMATION) USE OF APPROPRIATE APPROPRIATE NONDESTRUCTIVE DIGGING EQUIPMENT AT DISCRETE, CRITICAL POINTS TO DETERMINE THE PRECISE HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS. QLA IS THE HIGHEST QUALITY LEVEL PRESENTLY AVAILABLE.

QUALITY LEVEL - B: (2D INFORMATION) USE OF APPROPRIATE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL SUBSURFACE UTILITIES. 1). UTILITY QUALITY LEVEL B (QLB) IS VALUE ASSIGNED TO A UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND POSITION ARE BASED UPON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM. QLB IS MORE UNCERTAIN THAN QLA AND LESS UNCERTAIN THAN QLC OR QLD. 2). APPROXIMATE HORIZONTAL LOCATION OF UTILITY.

KENNEDY JENKS REVIEWED UTILITY MAPPING FROM 811 AND CONFIRMED UTILITY LOCATIONS WITH THE TOWN OF CASTLE ROCK SURVEY.

PROFESSIONAL ENGINEER'S CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

SIGN _____ DATE _____

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM
DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT
SERVICES

DATE

ISSUED FOR BID					NO	REVISION	DATE	BY	<div>SCALES</div> <div><div><div>0</div><div>1"</div></div><div><div>0</div><div>25mm</div></div></div> <div>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</div>	PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4 DOUGLAS COUNTY, CO	COVER SHEET II	SCALE		
	LJS	NTS														
	DRAWN	JOB NO														
	BAS/EAW	1946051'00														
	CHECKED	DATE														
LJS	MAY 2023															
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1												<div><div>KJ</div><div>Kennedy Jenks</div></div>	SHEET	2	OF	13
													G-02			

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User: BENJAMIN SHRIBER

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User: BENJAMIN SHRIBER

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CASTLE ROCK STREET CONSTRUCTION NOTES

1.

ALL STREET CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE STREET CONSTRUCTION NOTES LISTED HERE.

2.

A PAVING SECTION DESIGN, SIGNED AND SEALED BY A COLORADO REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO THE TCR PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO ANY STREET CONSTRUCTION ACTIVITY (FULL-DEPTH ASPHALT SECTIONS ARE NOT PERMITTED AT A DEPTH GREATER THAN 8" ASPHALT). THE JOB MIX SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF ANY ASPHALT.

3.

WHERE PROPOSED PAVING ADJOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT A MINIMUM DISTANCE OF 12" FROM THE EXISTING EDGE TO CREATE A CLEAN CONSTRUCTION JOINT. THE DEVELOPER SHALL BE REQUIRED TO REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BEMADE.

4.

STREET SUBGRADES SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RE-COMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.

5.

VALVE BOXES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.

CASTLE ROCK SANITARY SEWER CONSTRUCTION NOTES

1.

ALL SANITARY SEWER CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE SANITARY SEWER CONSTRUCTION NOTES LISTED HEREIN.

2.

ALL SANITARY SEWER PIPELINES SHALL BE PVC, SDR-35, IN ACCORDANCE WITH ASTM D-3034, BELL AND SPIGOT WITH ELASTOMERIC SEAL, UNLESS OTHERWISE NOTED.

3.

ALL SANITARY SEWER PIPELINES SHALL HAVE A MINIMUM COVER OF 5 FEET AND MAXIMUM COVER OF 20 FEET.

4.

ALL SANITARY SEWER PIPELINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SS-8.

5.

ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETE FINISH SURFACE AND PER TCR STANDARD DETAIL SS-3.

6.

SANITARY SEWER PIPELINE SHALL BE ALIGNED 6 FEET OFF THE SOUTH AND WEST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE.

7.

ALL SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET EDGE-TO-EDGE FROM ALL WATER LINES. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.

8.

ALL SANITARY SEWER LINES MUST BE TESTED IN ACCORDANCE WITH SECTION 450.6 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL IN THE PRESENCE OF A TCR CONSTRUCTION INSPECTOR.

9.

ALL SANITARY SEWER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES. IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.

10.

SANITARY SEWER SERVICES SHALL BE CONNECTED A MINIMUM OF 5 FEET OUTSIDE OF MANHOLES WITH A WYE CONNECTION IN ACCORDANCE WITH TCR STANDARD DETAIL SS-2.

11.

MINIMUM COVER FOR SANITARY SEWER SERVICE LINES SHALL BE 5 FEET AND THE MINIMUM SLOPE SHALL BE 2.0%.

12.

ALL SANITARY SEWER SERVICE LINES SHALL BE CONSTRUCTED ALONG THE SHORTEST AND STRAIGHTEST ROUTE POSSIBLE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WASTEWATER SYSTEM DESIGN CRITERIA MANUAL.

13.

THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRYING THE SAME MATERIAL (E.G., WASTEWATER AND WASTEWATER) SHALL BE 5 FEET.

14.

THE PLUM CREEK WASTEWATER AUTHORITY MUST APPROVE OIL AND GREASE INTERCEPTORS FOR COMMERCIAL INSTALLATIONS.

15.

ALL MANHOLES SHALL BE PLACED ON A MINIMUM OF 1' OF ¾" WASH ROCK. IF ADDITIONAL SUBGRADE IS DISTURBED, EXCAVATION SHALL BE BACKFILLED WITH ¾" WASH ROCK OR OTHER APPROVED STRUCTURAL SOIL COMPACTED TO 95% OF ASTM D698 UNLESS OTHERWISE INSTRUCTED BY THE INSPECTOR.

CASTLE ROCK TRACER WIRE INSTALLATION NOTES

1.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT TOWN OF CASTLE ROCK STANDARD NOTES, DETAILS AND SPECIFICATIONS.

2.

TRACER WIRE IS REQUIRED ON ALL UNDERGROUND PIPE. A MAINLINE TRACER WIRE MUST BE INSTALLED WITH ALL SERVICE LATERAL TRACER WIRES PROPERLY CONNECTED TO ENSURE FULL LOCATING CAPABILITIES FROM A SINGLE CONNECTION POINT.

3.

TRACER WIRE COLORS FOR STORM SEWER, DRAIN LINES, SANITARY SEWER, AND WATER MAINS SHALL BE IN ACCORDANCE WITH AMERICAN PUBLIC WORKS ASSOCIATION (APWA) UNIFORM COLOR CODE. ALL GROUNDING WIRE SHALL BE RED OR BLACK.

4.

"OPEN TRENCH" TRACER WIRE SHALL BE #8 OR #10 AWG COPPER SOLID OR #12 AWG COPPER CLAD HIGH STRENGTH WITH MINIMUM 30-MIL HDPE INSULATION THICKNESS COMPLYING WITH ASTM D-1248, AND A MINIMUM AVERAGE TENSILE BREAK LOAD OF 450 LBS.

5.

TRACER WIRE SHALL BE SECURED EVERY 5 FEET TO THE TOP OF THE PIPE AND TO THE SIDES OF MANHOLES AND INLETS USING TAPE, PLASTIC TIES, OR APPROVED ADHESIVE AT 5-FOOT INTERVALS.

6.

TRACER WIRE SHALL BE SECURELY BONDED TOGETHER AT ALL WIRE JOINTS WITH LOCKABLE, CORROSION PROOF, WATERTIGHT CONNECTORS SPECIFICALLY DESIGNED FOR DIRECT BURIAL, AND FILLED WITH NON-HARDENING DIELECTRIC SILICONE SEALANT.

7.

ANY DAMAGE OCCURRING DURING INSTALLATION OF THE TRACER WIRE MUST BE IMMEDIATELY REPAIRED BY REMOVING THE DAMAGED WIRE AND INSTALLING A NEW SECTION OF WIRE WITH APPROVED CONNECTORS. TAPING AND/OR SPRAY COATING IS NOT ALLOWED.

8.

A MINIMUM OF 2 FEET OF EXCESS/SLACK WIRE IS REQUIRED IN ALL TRACER WIRE TEST STATIONS, MANHOLES, AND INLETS AFTER MEETING FINAL ELEVATION.

9.

TRACER WIRE MUST BE PROPERLY GROUNDED AT ALL DEAD ENDS (MANHOLES, INLETS, OUTFALLS, FUTURE CONNECTIONS, ETC.) USING A MAGNESIUM GROUND ROD. THE GROUND ROD WILL BE CONNECTED TO 12- OR 14-AWG COPPER-CLAD STEEL WIRE WITH 30 MIL HDPE INSULATION AND RATED FOR DIRECT BURY USE AT 30 VOLTS WITH 21% CONDUCTIVITY.

10.

TEST STATIONS SHALL PROVIDE PROTECTED ACCESS FOR A DIRECT CONNECTION TO THE TRACER WIRE SYSTEM AT GROUND SURFACE.

11.

TRUNK LINE TRACER WIRE SHALL BE CONTINUOUS, AND PASS AROUND THE OUTSIDE OF VALVES AND OTHER STRUCTURES ON THE NORTH OR EAST SIDE.

12.

THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (EXCAVATION, CONCRETE, TRAFFIC CONTROL, ETC.) AND PROVIDE A MINIMUM TWENTY-FOUR (24) HOURS' NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, TO REQUEST A TRACER WIRE INSPECTION.

13.

ALL NEW TRACER WIRE INSTALLATIONS SHALL BE TESTED AND LOCATED PRIOR TO ACCEPTANCE. TESTING AND LOCATING SHALL BE PERFORMED BY THE TCR CONSTRUCTION INSPECTOR AT THE COMPLETION OF ROUGH GRADING AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO FINAL ACCEPTANCE.

PROFESSIONAL ENGINEER'S CERTIFICATION

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SIGN

DATE

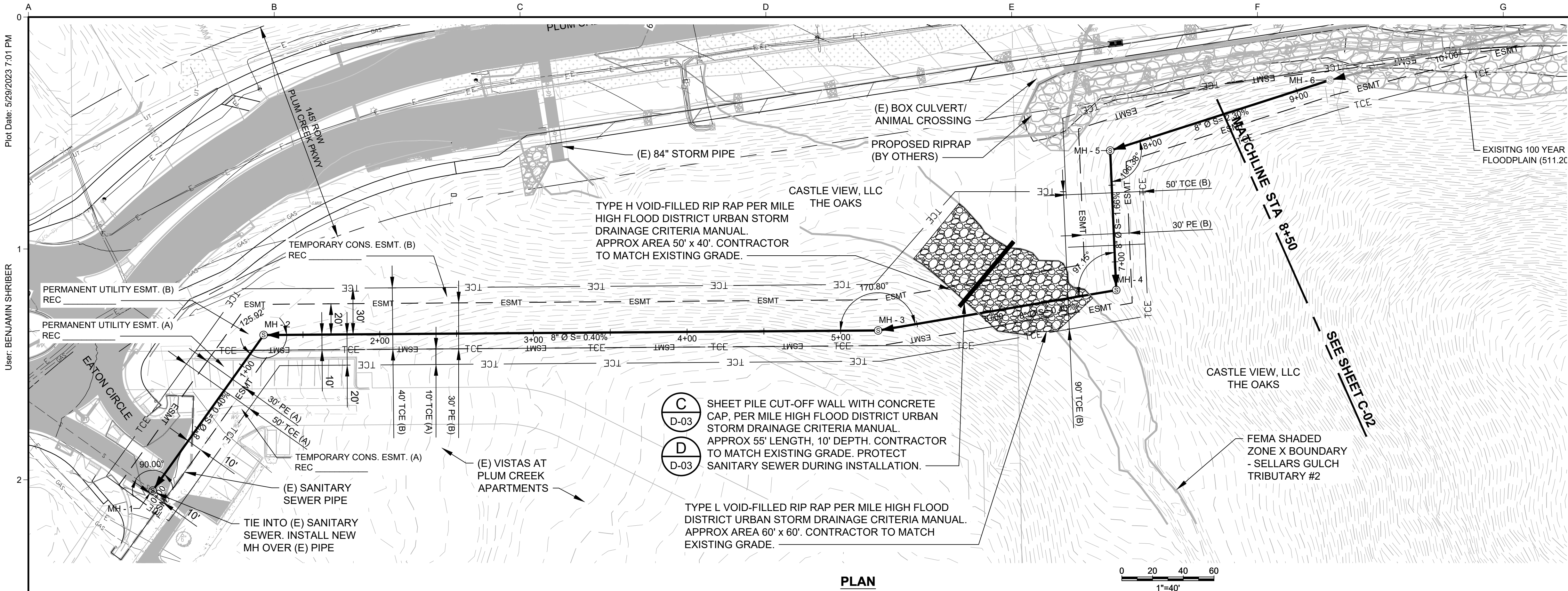
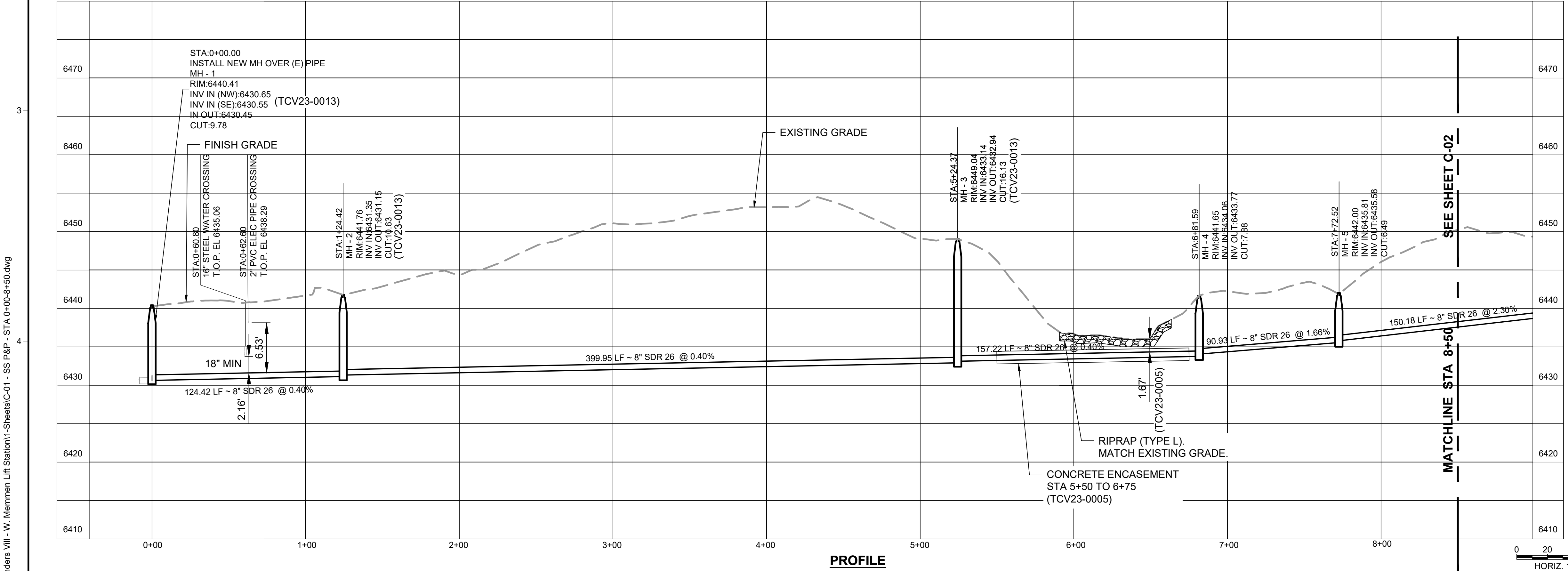
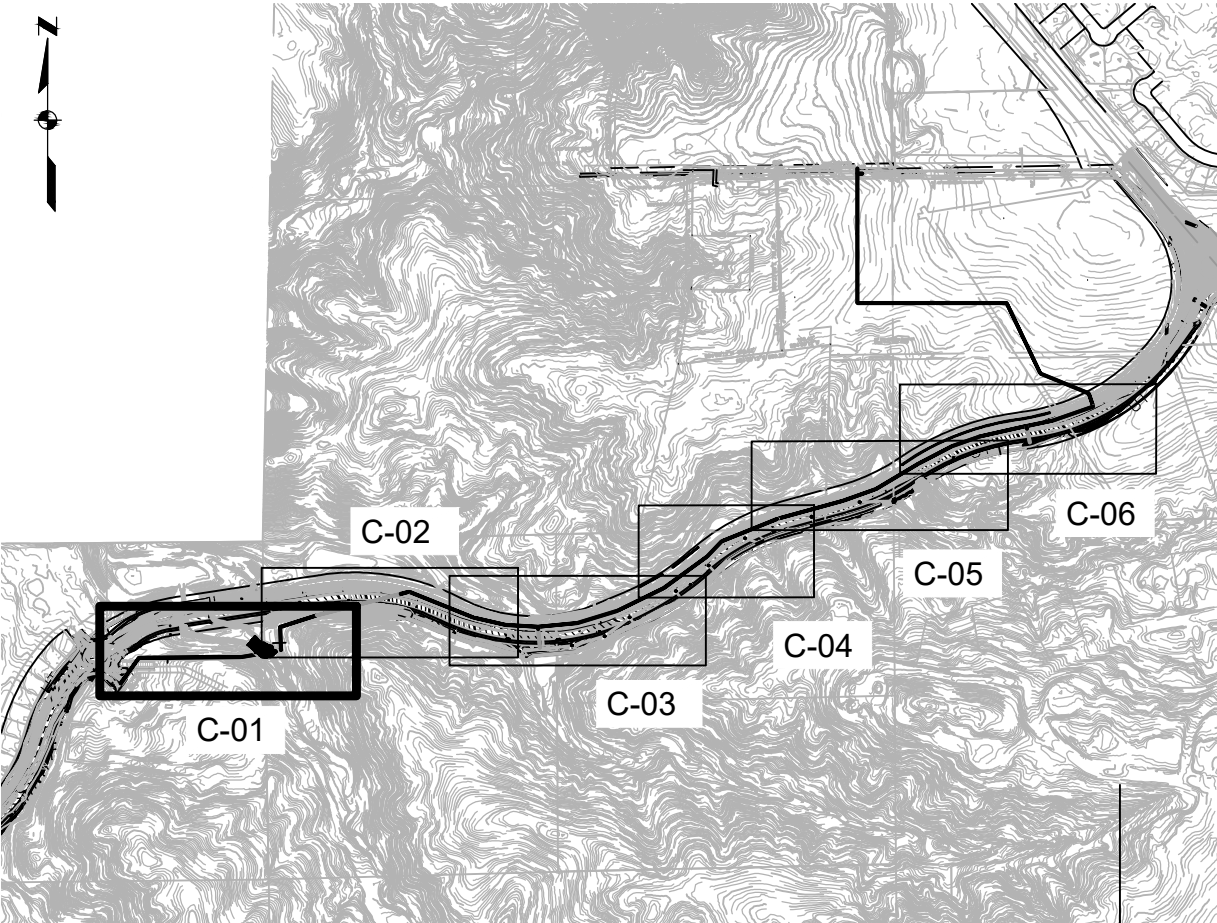
TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM
DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT
SERVICES

DATE

ISSUED FOR BID						<div>SCALES</div> <div><div>01"25mm</div></div> <div>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</div>	PRELIMINARY NOT FOR CONSTRUCTION	DESIGNED	VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4 DOUGLAS COUNTY, CO		TOWN OF CASTLE ROCK NOTES	SCALE	NTS	
								JOB NO	1946051"00					
								DATE	MAY 2023					
	ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.								CHECKED	OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1			SHEET	3 OF 13
									LJS	<div><div>KJ</div><div>Kennedy Jenks</div></div>		G-03		
	NO	REVISION	DATE	BY										



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- FOR MANHOLES OUTSIDE PAVED ROW, FURNISH AND INSTALL LOCKING-TYPE MANHOLE COVER AND MARKER POST PER TCR STANDARD DETAILS.

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SIGN _____ DATE _____

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PRELIMINARY
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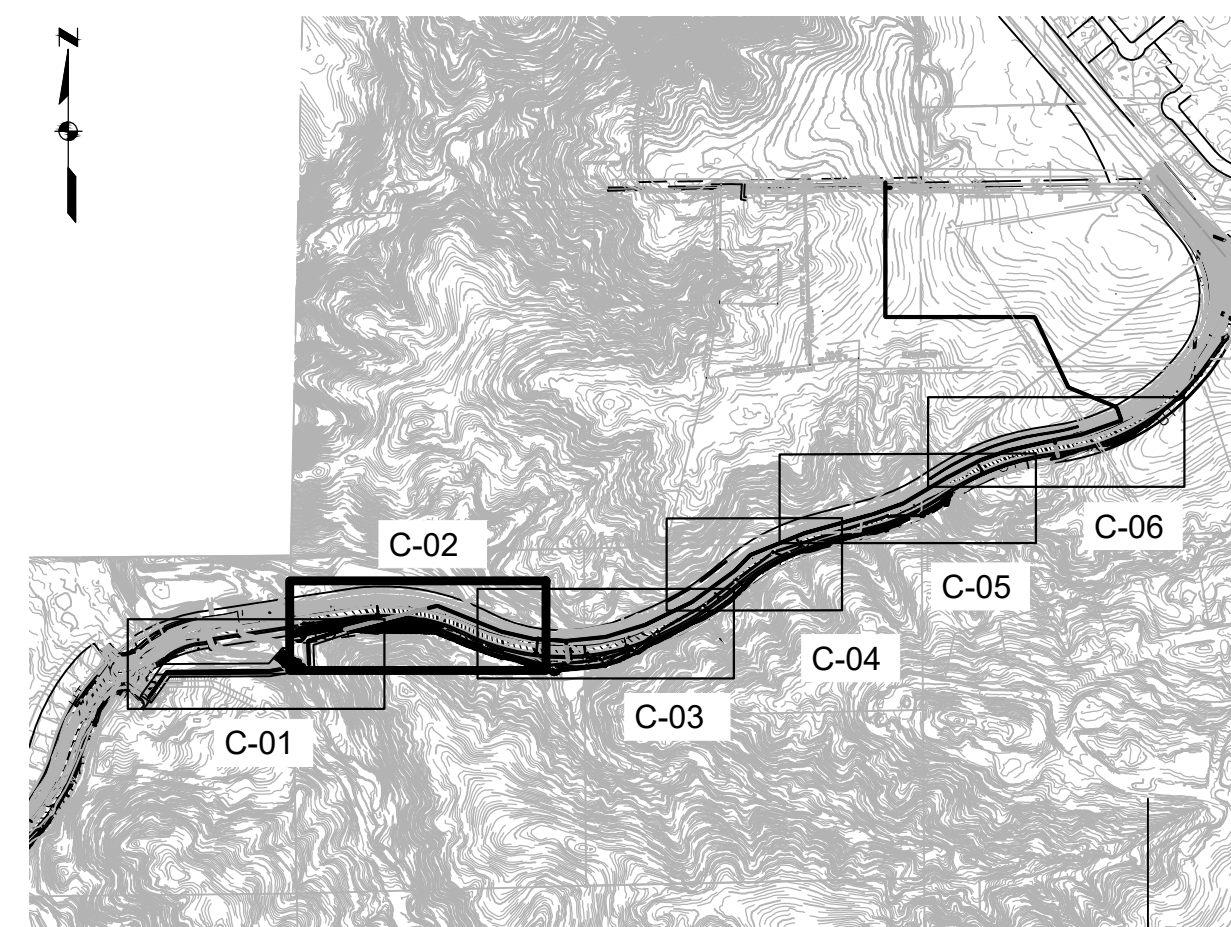
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VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

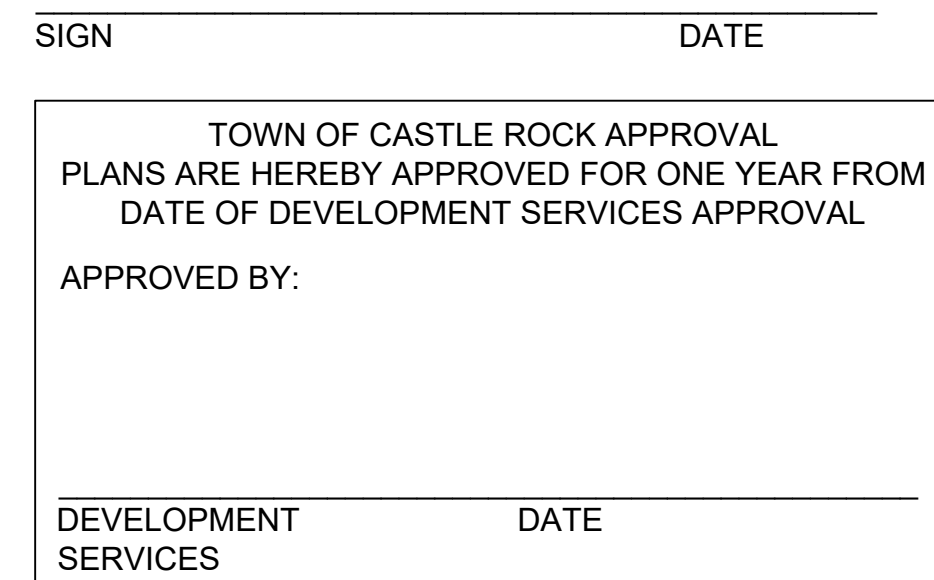
SANITARY SEWER MAIN PLAN AND PROFILE
STA 0+00 TO STA 8+50

SCALE
AS SHOWN
JOB NO
1946051'00
DATE
MAY 2023
SHEET 4 OF 13
C-01



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DESIGNED	BAS/EAW
DRAWN	BAS
CHECKED	LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1



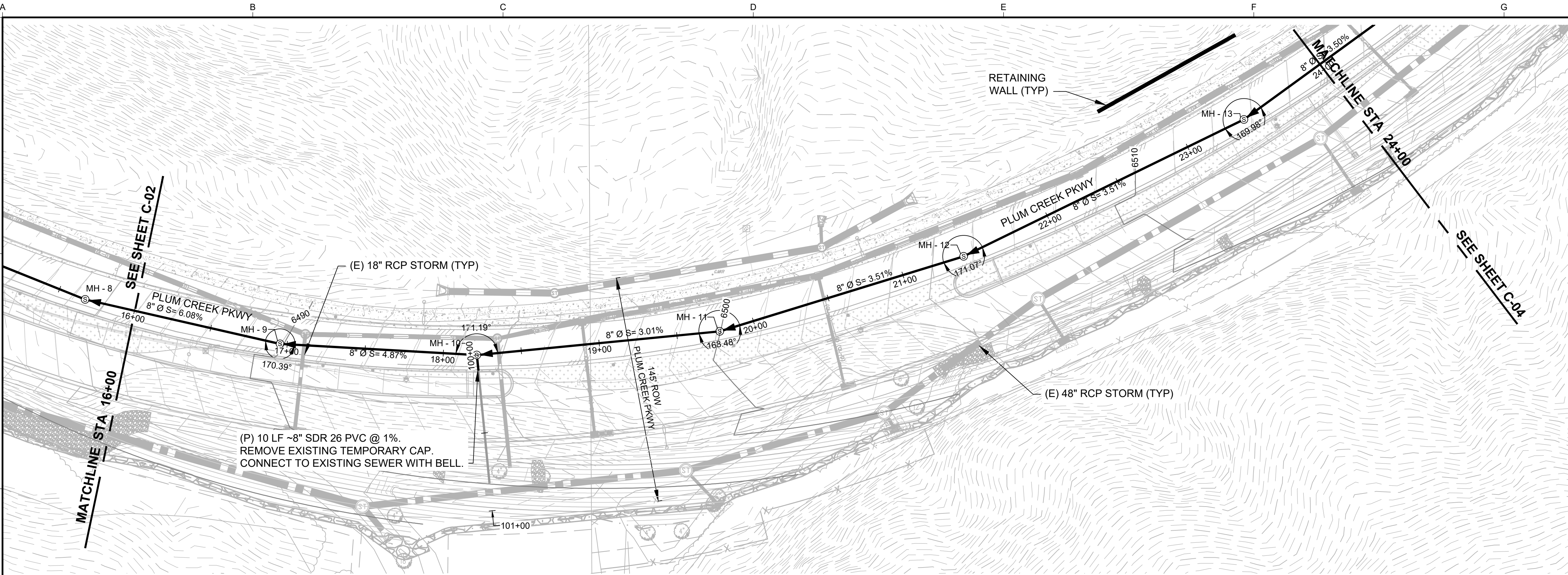
SANITARY SEWER MAIN PLAN AND PROFILE
STA 8+50 TO STA 16+00

SCALE	AS SHOWN
JOB NO	1946051*00
DATE	MAY 2023
SHEET	5 OF 11
C-02	

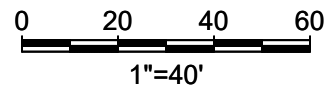
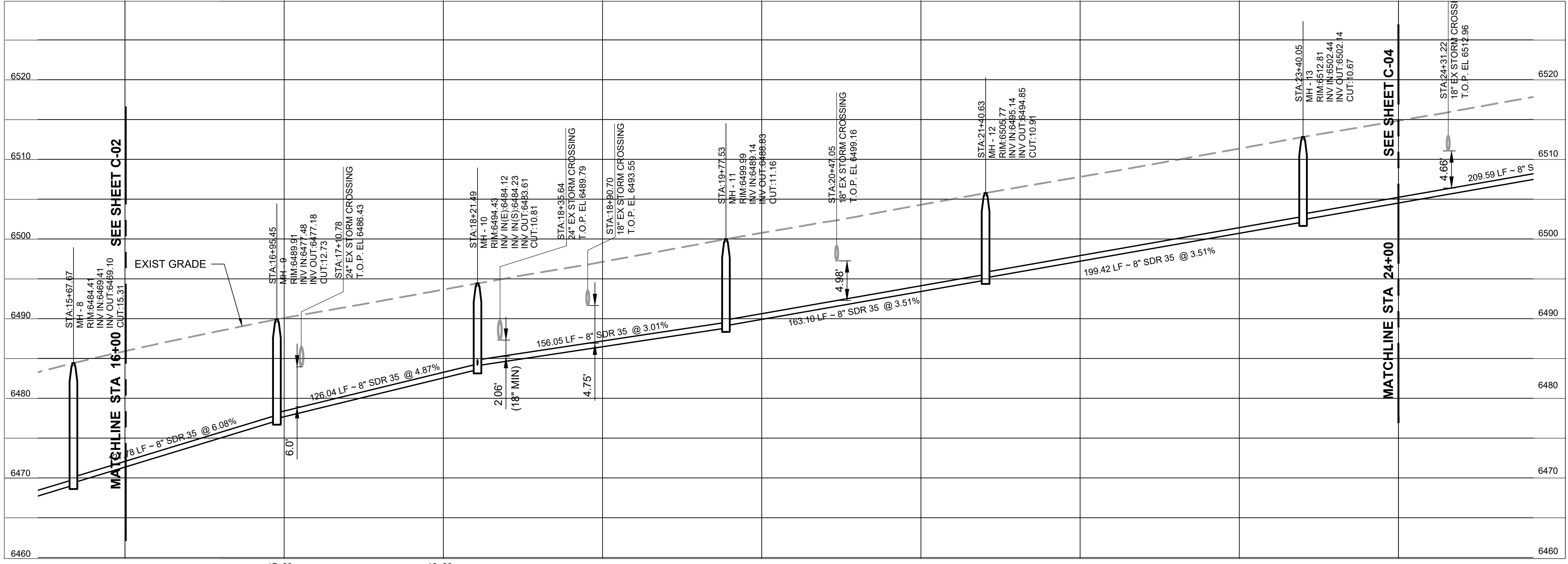
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User: BENJAMIN SHRIBER

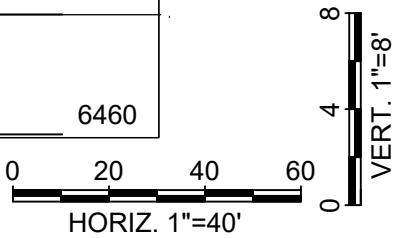
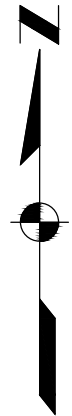
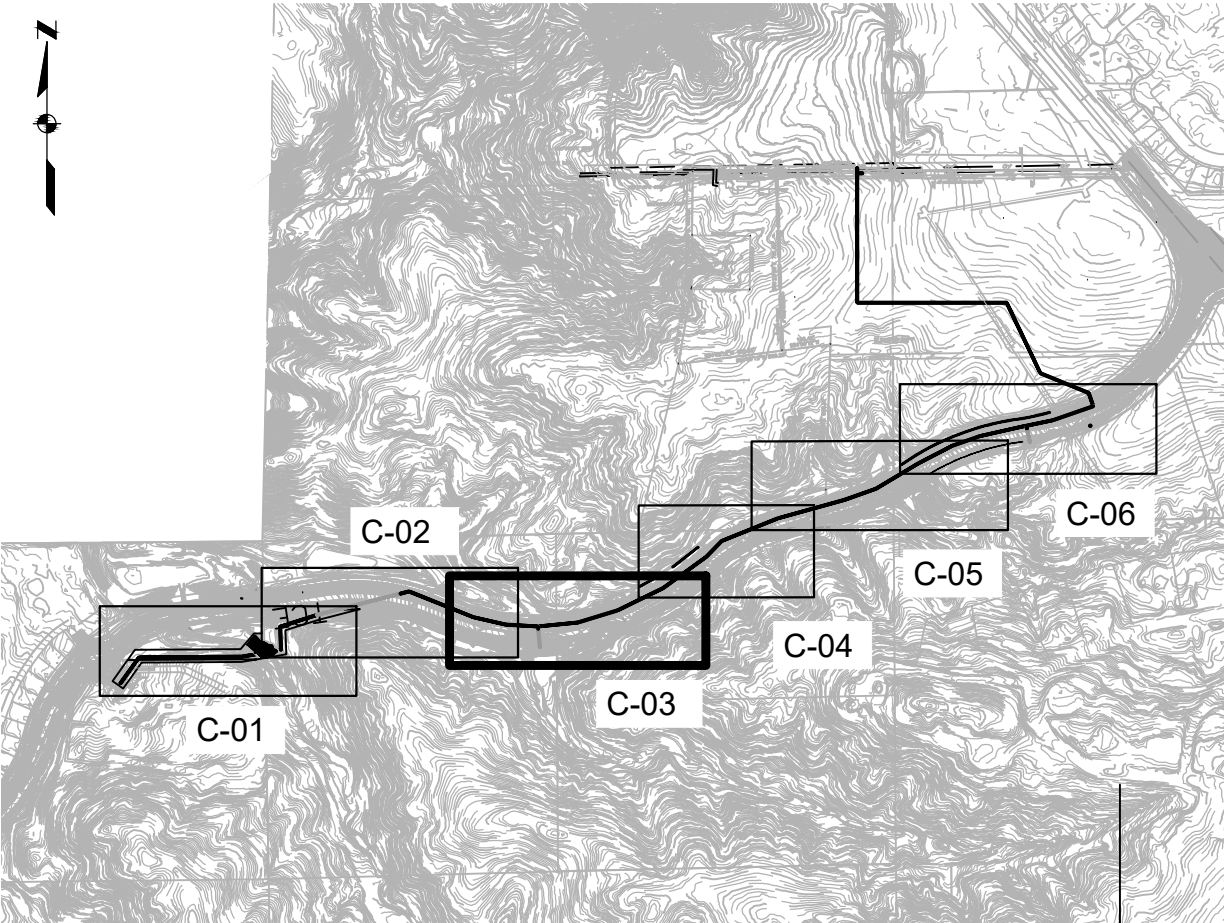
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PLAN



PROFILE



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DEVELOPMENT SERVICES	DATE

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DESIGNED
BAS/EAW
DRAWN
BAS
CHECKED
LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

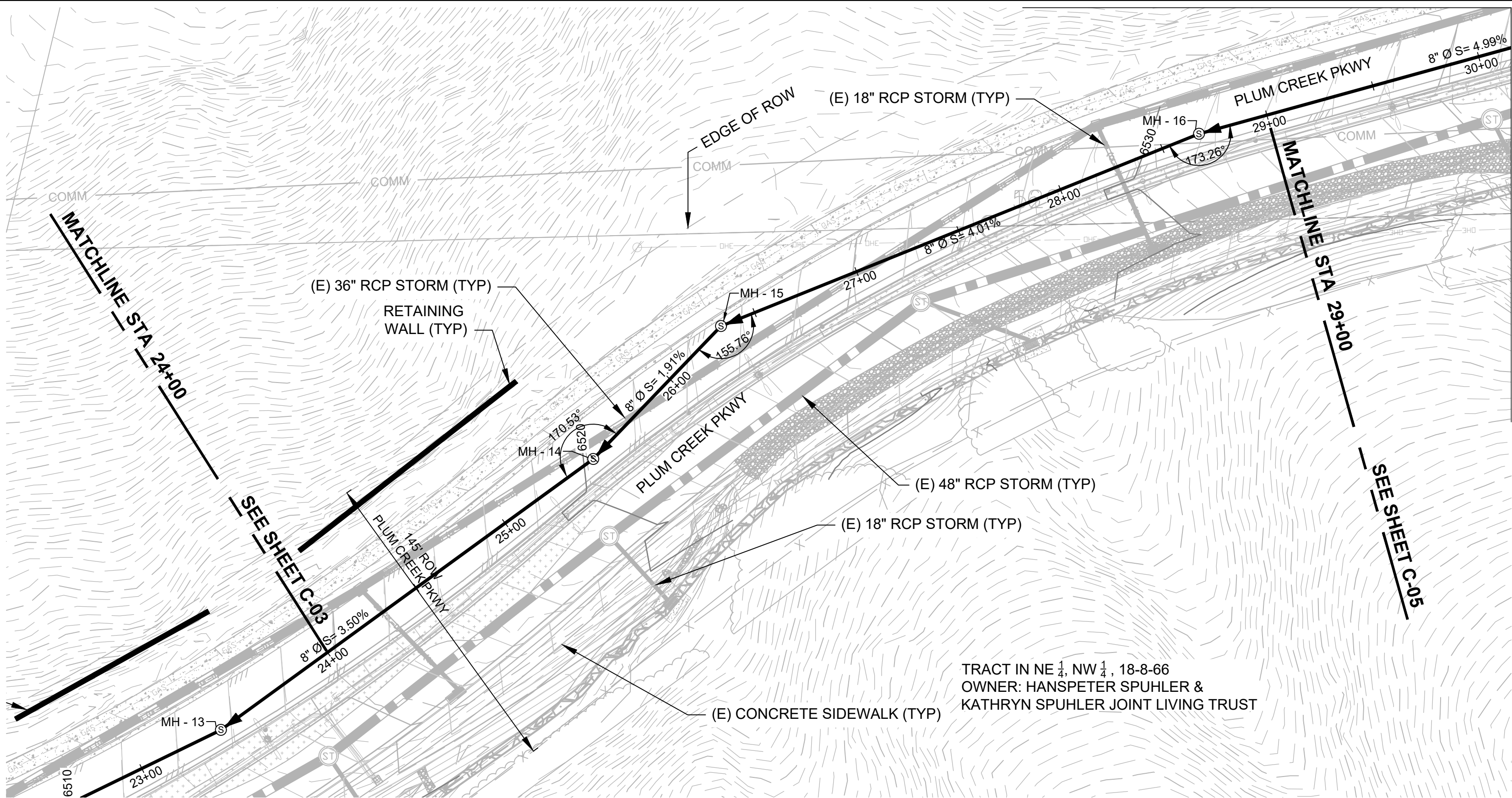
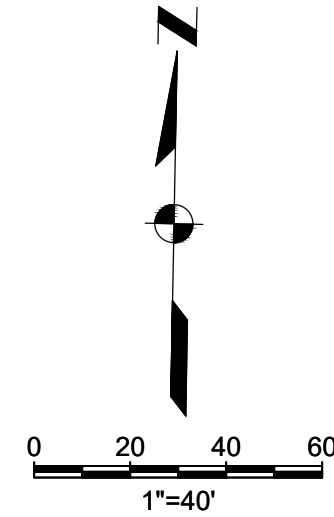
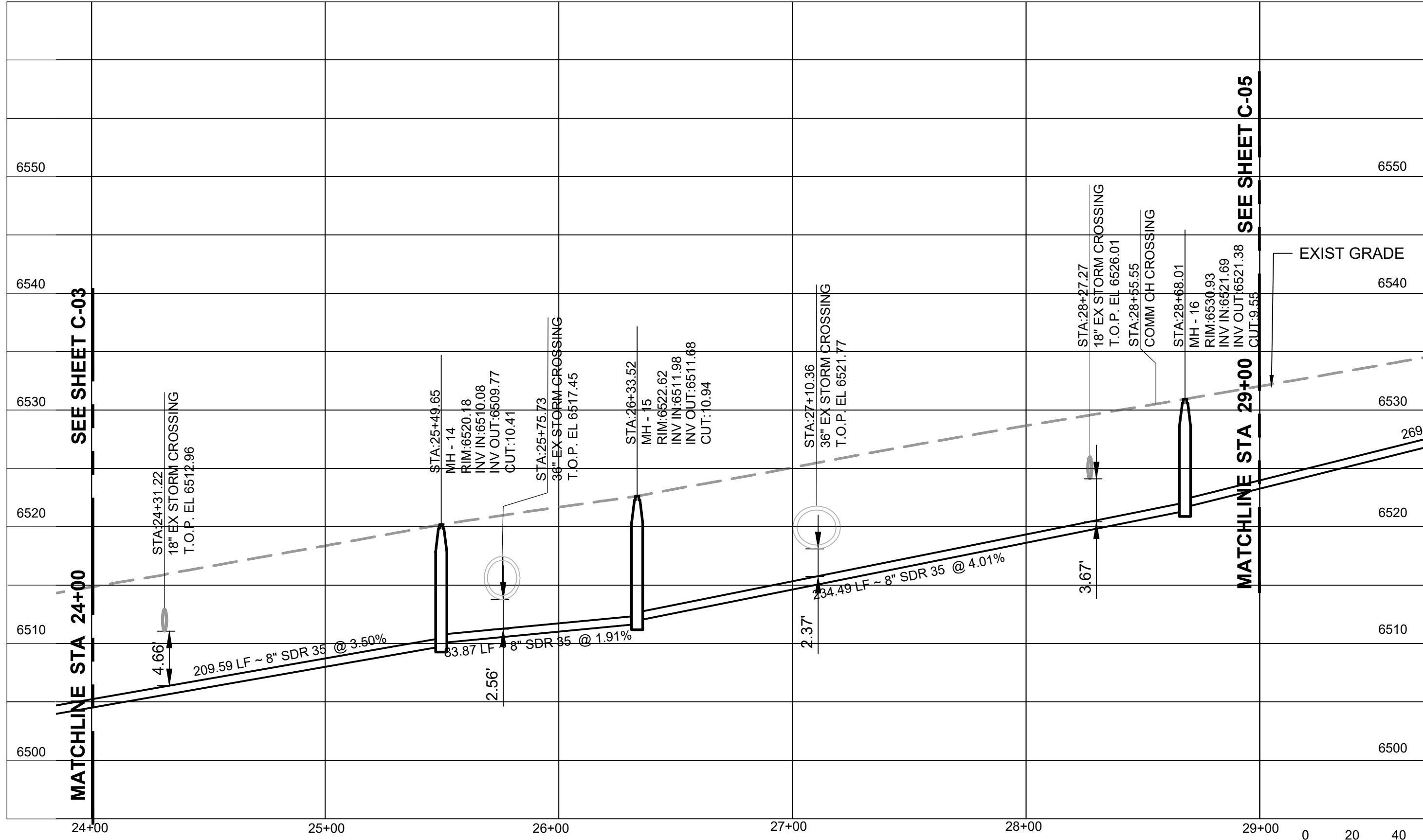
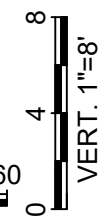
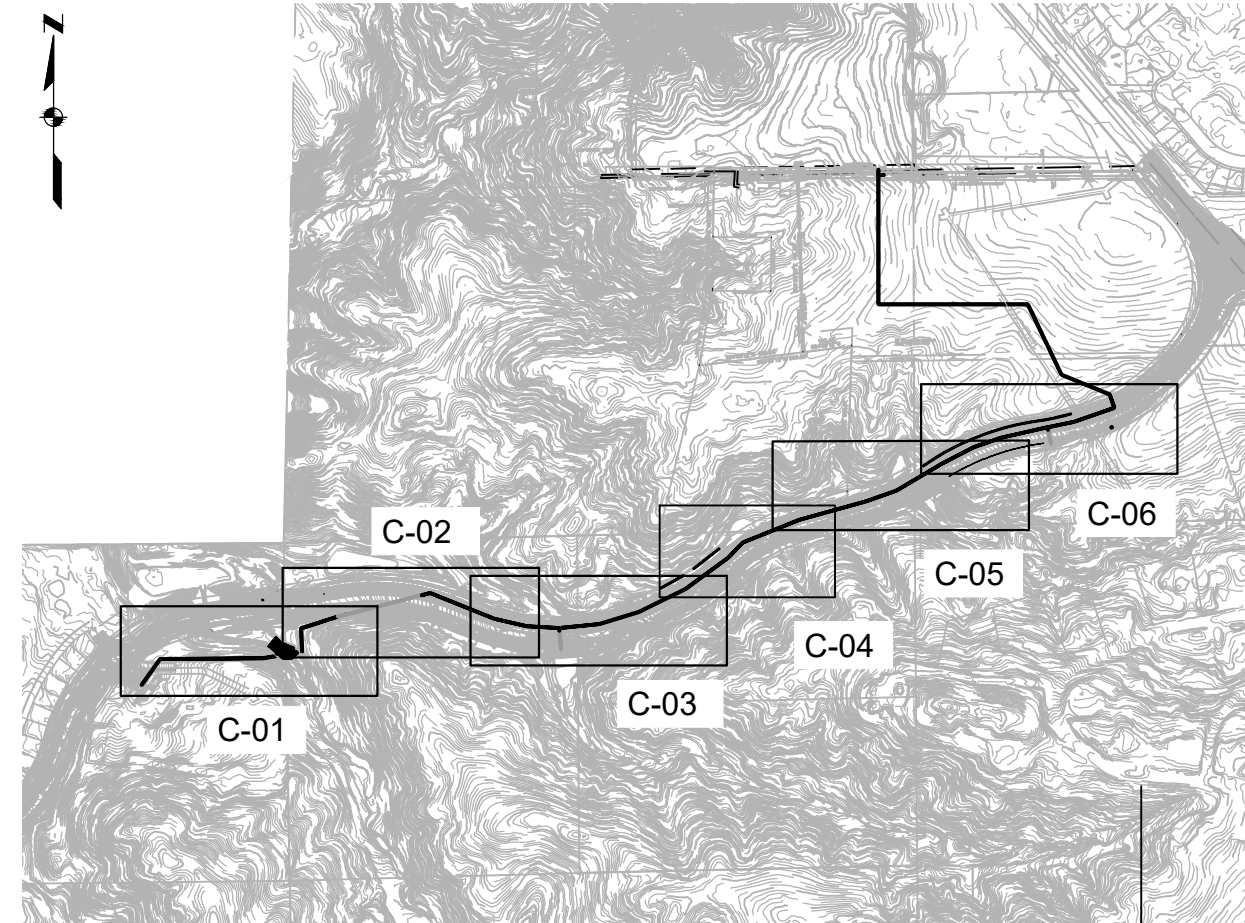
SANITARY SEWER MAIN PLAN AND PROFILE
STA 16+00 TO STA 24+00

SCALE
NTS
JOB NO
1946051'00
DATE
MAY 2023
SHEET 6 OF 13
C-03

Plot Date: 5/29/2023 7:34 PM

User: BENJAMIN SHRIBER

File: P:\2019\1946051 VCR Founders Vill - W. Memmen Lift Station\1-Sheets\C-04 - SS P&P - STA 24+00-29+00.dwg



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PRELIMINARY
NOT FOR
CONSTRUCTION

DESIGNED
BAS/EAW
DRAWN
BAS
CHECKED
LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

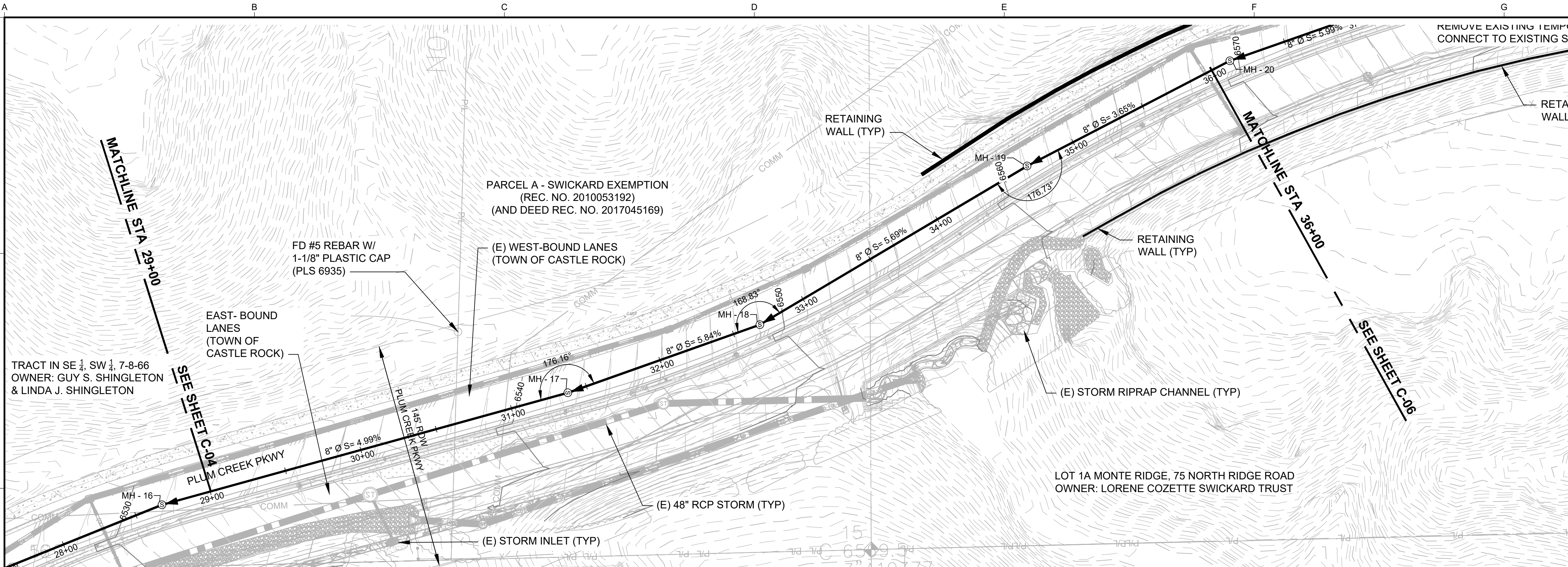
SANITARY SEWER MAIN PLAN AND PROFILE
STA 24+00 TO STA 29+00

SCALE
AS SHOWN
JOB NO
1946051'00
DATE
MAY 2023
SHEET 7 OF 13
C-04

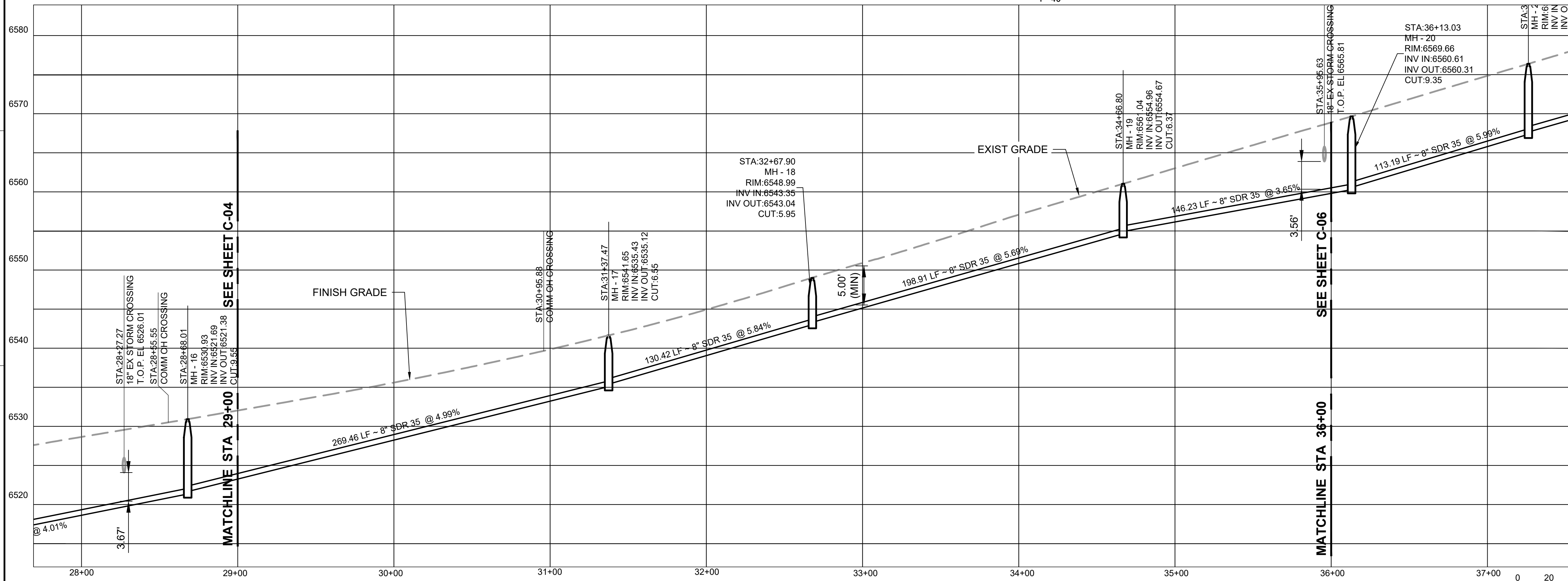
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File: P:\2019\1946051 VCR Founders Vill - W. Memmen Lift Station\1-Sheets\C-05 - SS P&P - STA 29+00-36+00.dwg



PLAN



PROFILE



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DESIGNED
BAS/EAW
DRAWN
BAS
CHECKED
LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

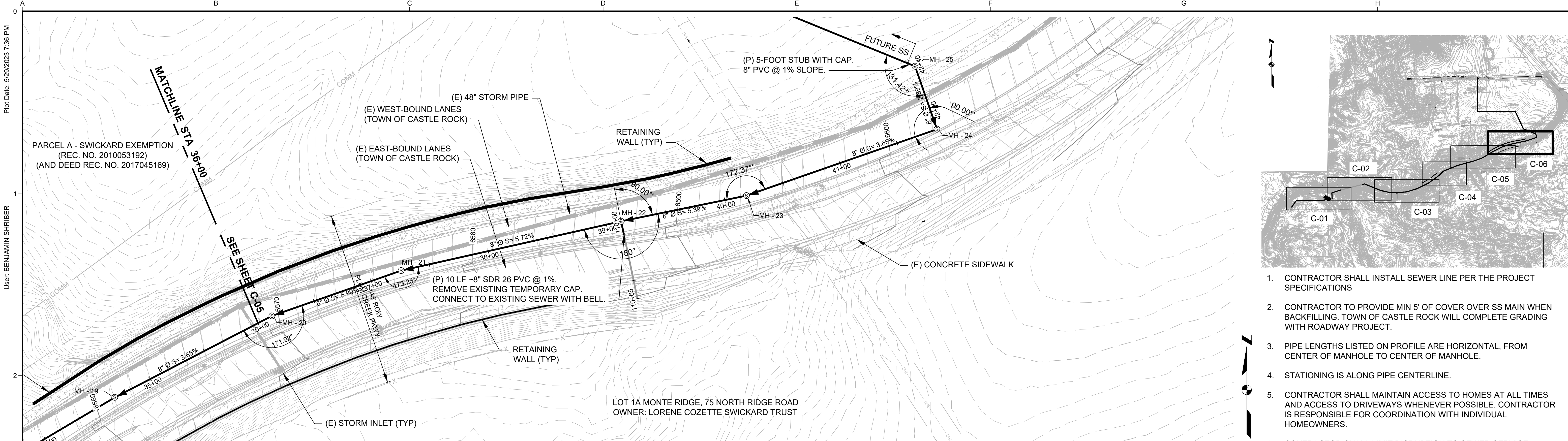
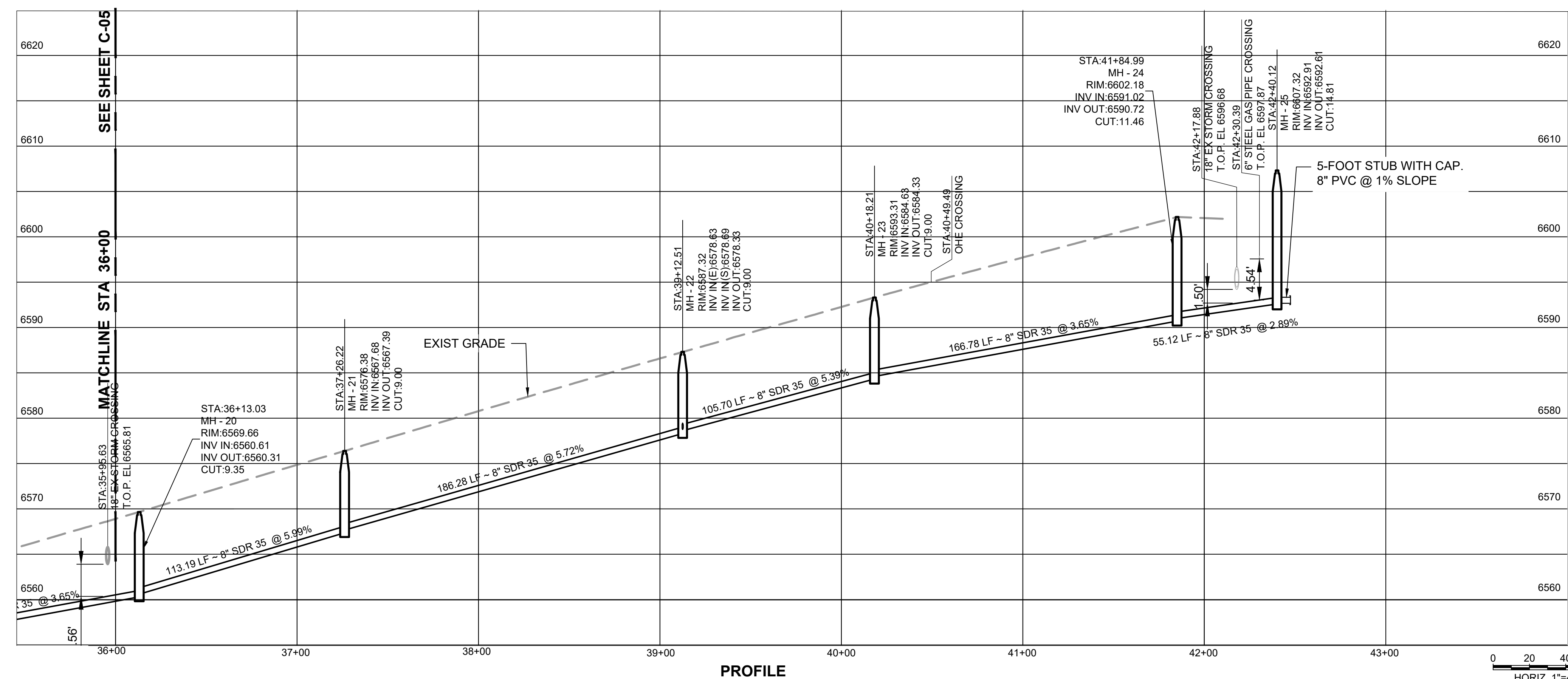
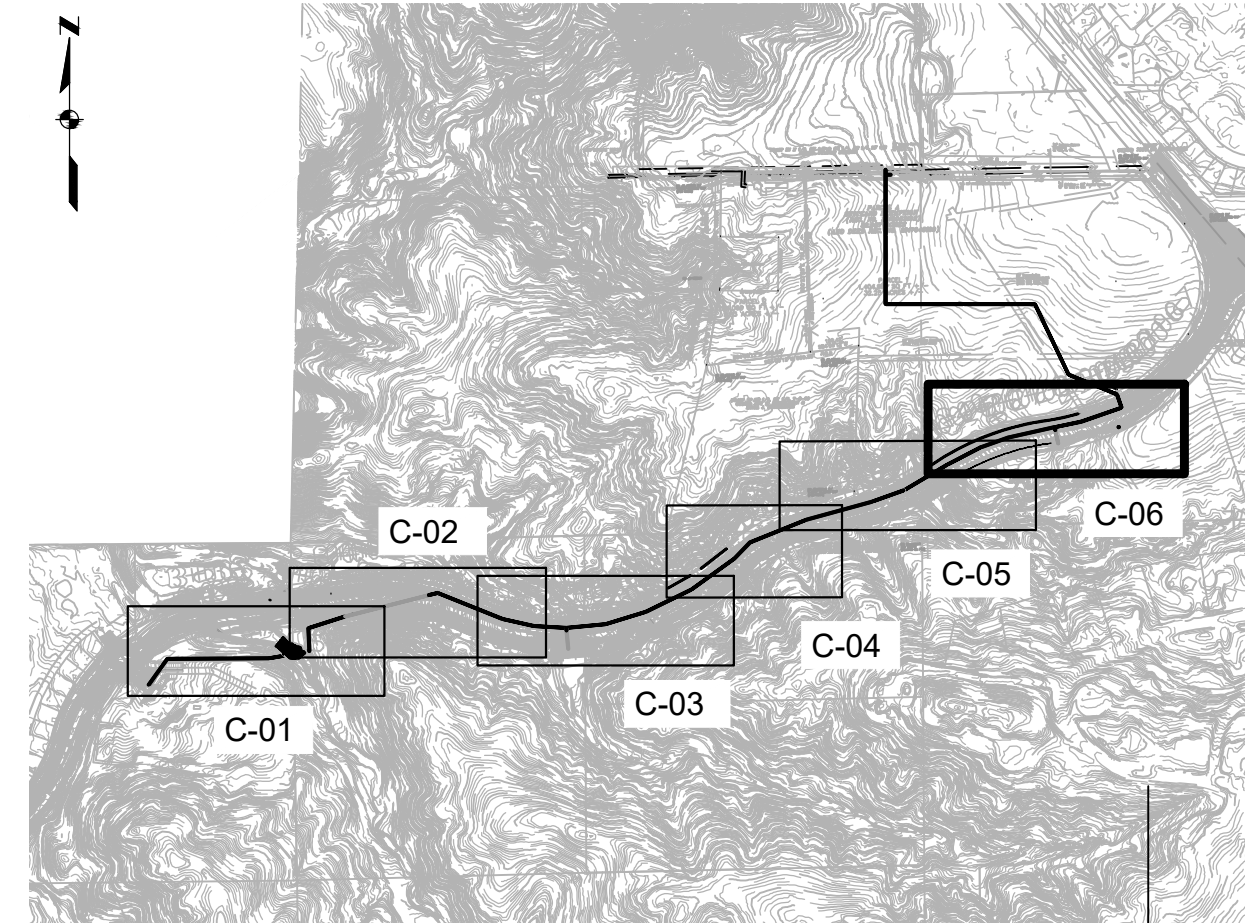
SANITARY SEWER MAIN PLAN AND PROFILE
STA 29+00 TO STA 36+00

SCALE
AS SHOWN
JOB NO
1946051'00
DATE
MAY 2023
SHEET 8 OF 13
C-05

Plot Date: 5/29/2023 7:36 PM

User: BENJAMIN SHRIBER

File: P:\2019\1946051 VCR Founders Vill - W. Memmen Lift Station\1-Sheets\C-06 - SS P&P - STA 36+00-42+43.dwg



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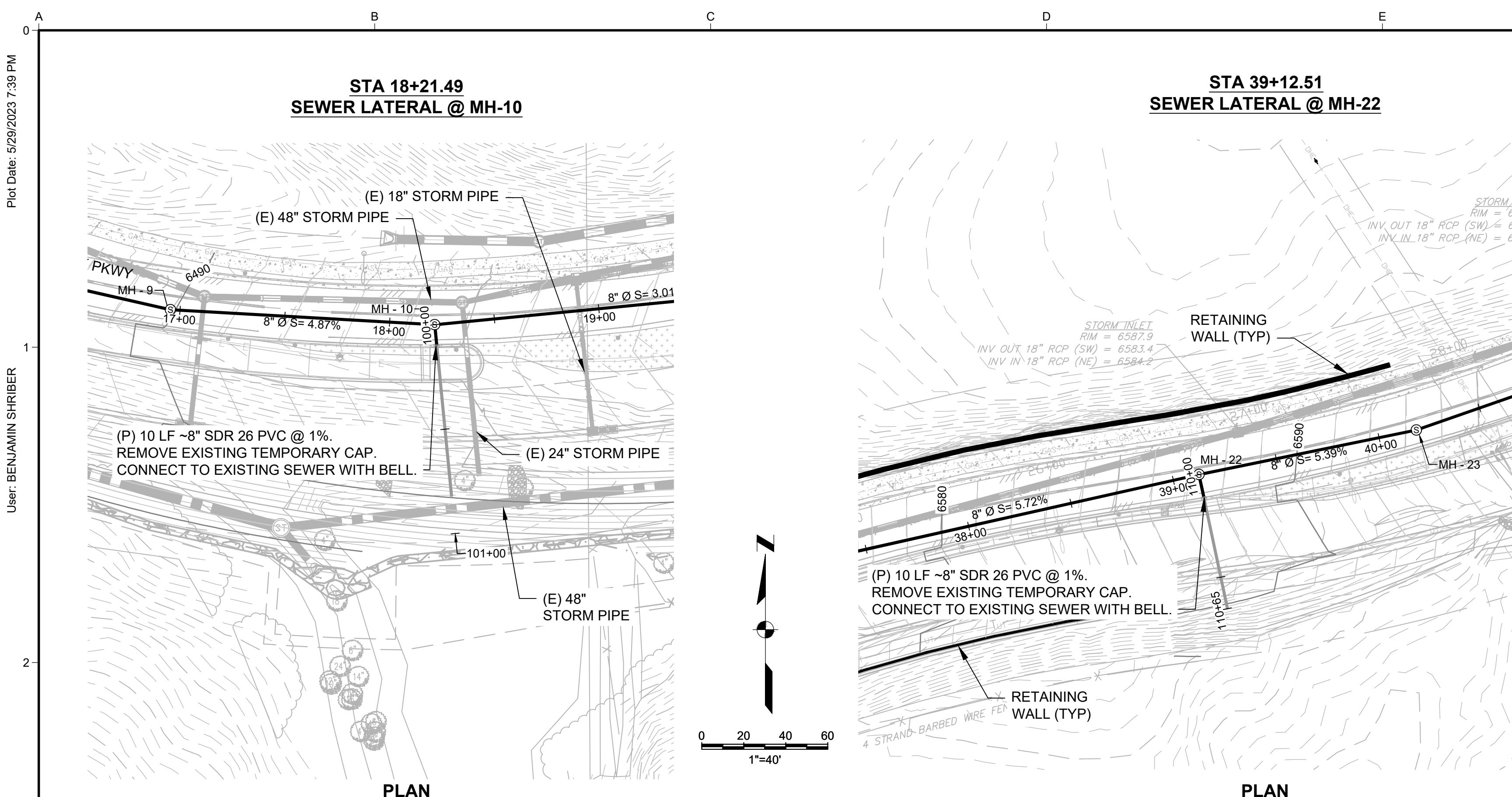
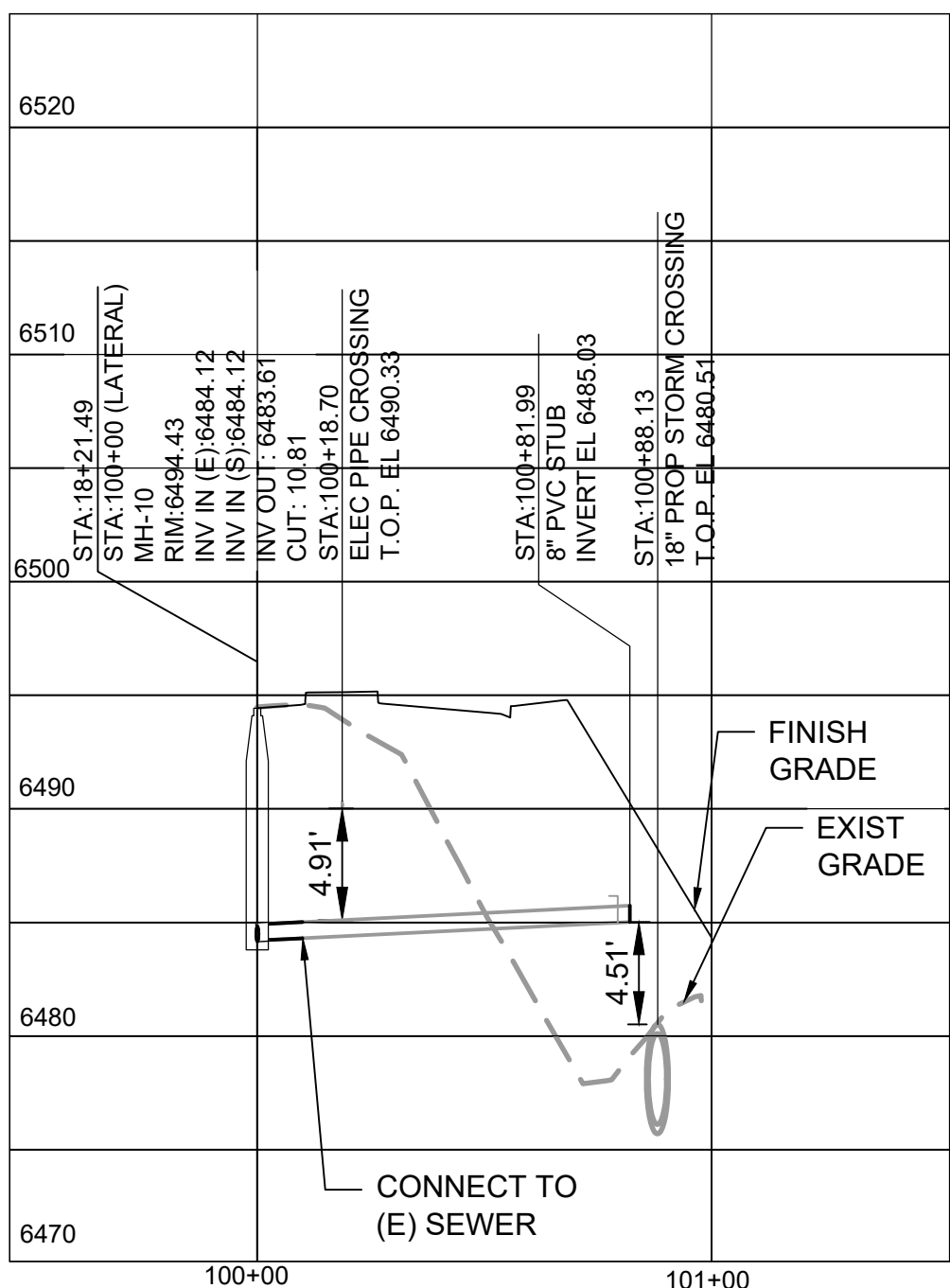
ISSUED FOR BID		DESIGNED BAS/EAW		VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4 DOUGLAS COUNTY, CO		SCALE AS SHOWN	
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		CHECKED LJS		Kennedy Jenks		DATE MAY 2023	
NO		REVISION		DATE		BY	
						SHEET 9 OF 13	
						C-06	

Plot Date: 5/29/2023 7:39 PM

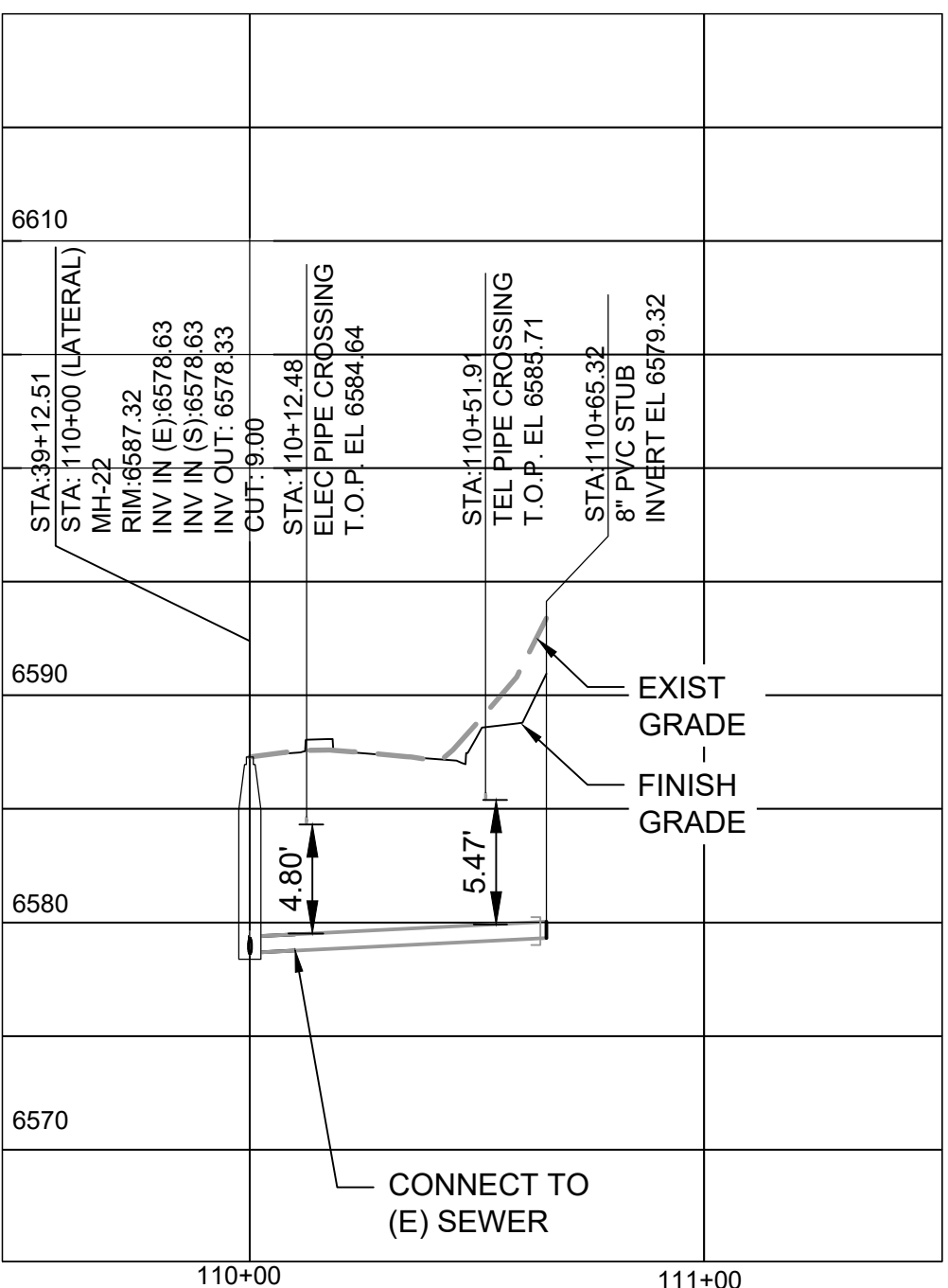
User: BENJAMIN SHRIBER

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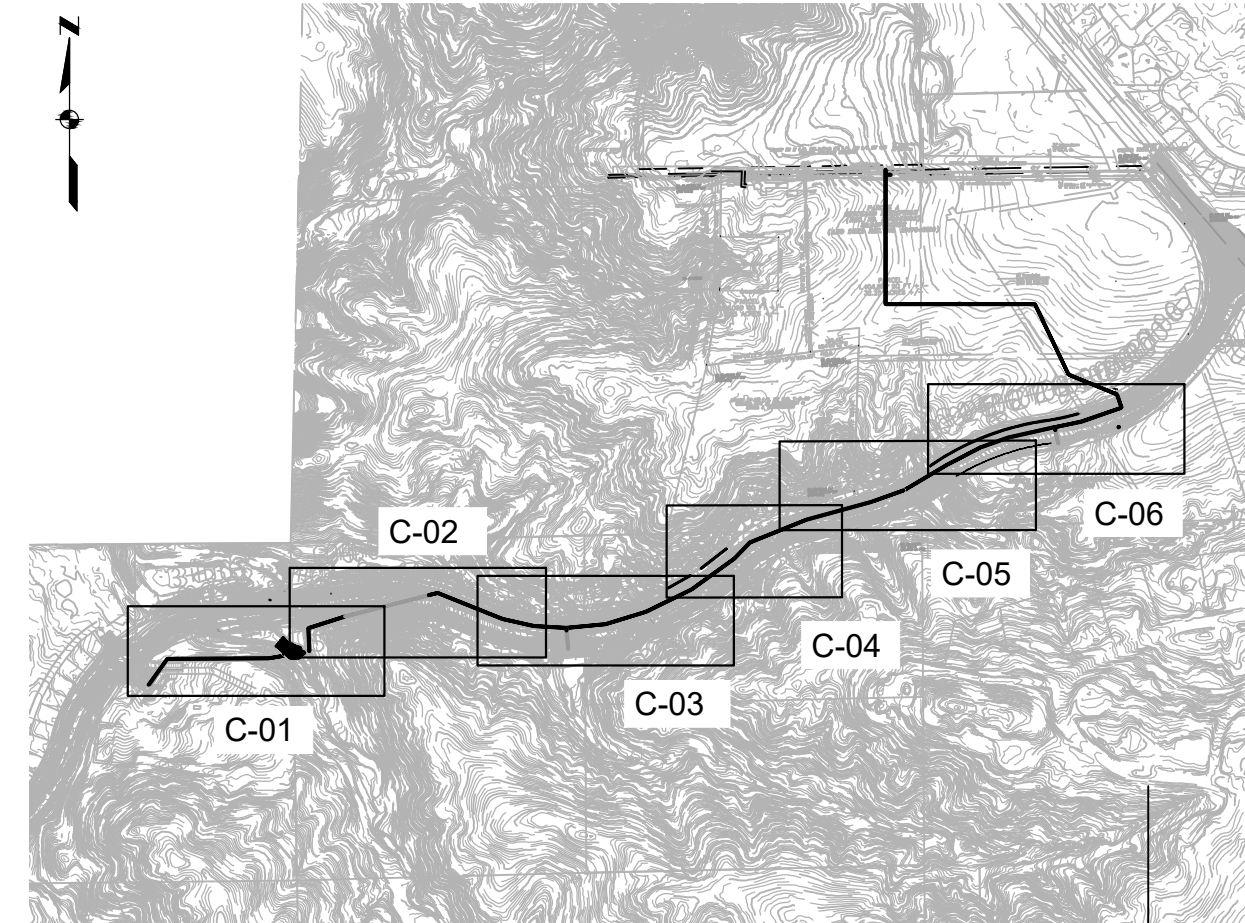
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PROFILE



PROFILE



- CONTRACTOR SHALL INSTALL SEWER LINE PER THE PROJECT SPECIFICATIONS.
- CONTRACTOR TO PROVIDE MIN 5' OF COVER OVER SS MAIN WHEN BACKFILLING. TOWN OF CASTLE ROCK WILL COMPLETE GRADING WITH ROADWAY PROJECT.
- PIPE LENGTHS LISTED ON PROFILE ARE HORIZONTAL, FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- STATIONING IS ALONG PIPE CENTERLINE.
- CONTRACTOR SHALL MAINTAIN ACCESS TO HOMES AT ALL TIMES AND ACCESS TO DRIVEWAYS WHENEVER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH INDIVIDUAL HOMEOWNERS.
- CONTRACTOR SHALL LIMIT DISRUPTION TO SEWER SERVICE WHENEVER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH INDIVIDUAL HOMEOWNERS.
- NIGHT AND WEEKEND WORK WILL NOT BE ALLOWED ON THIS PROJECT.
- WHERE THE SEWER MAIN CROSSES EXISTING WATER MAINS, CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING WATER MAINS IN PLACE.

PROFESSIONAL ENGINEER'S CERTIFICATION

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APPROVED BY:	
DEVELOPMENT SERVICES	DATE

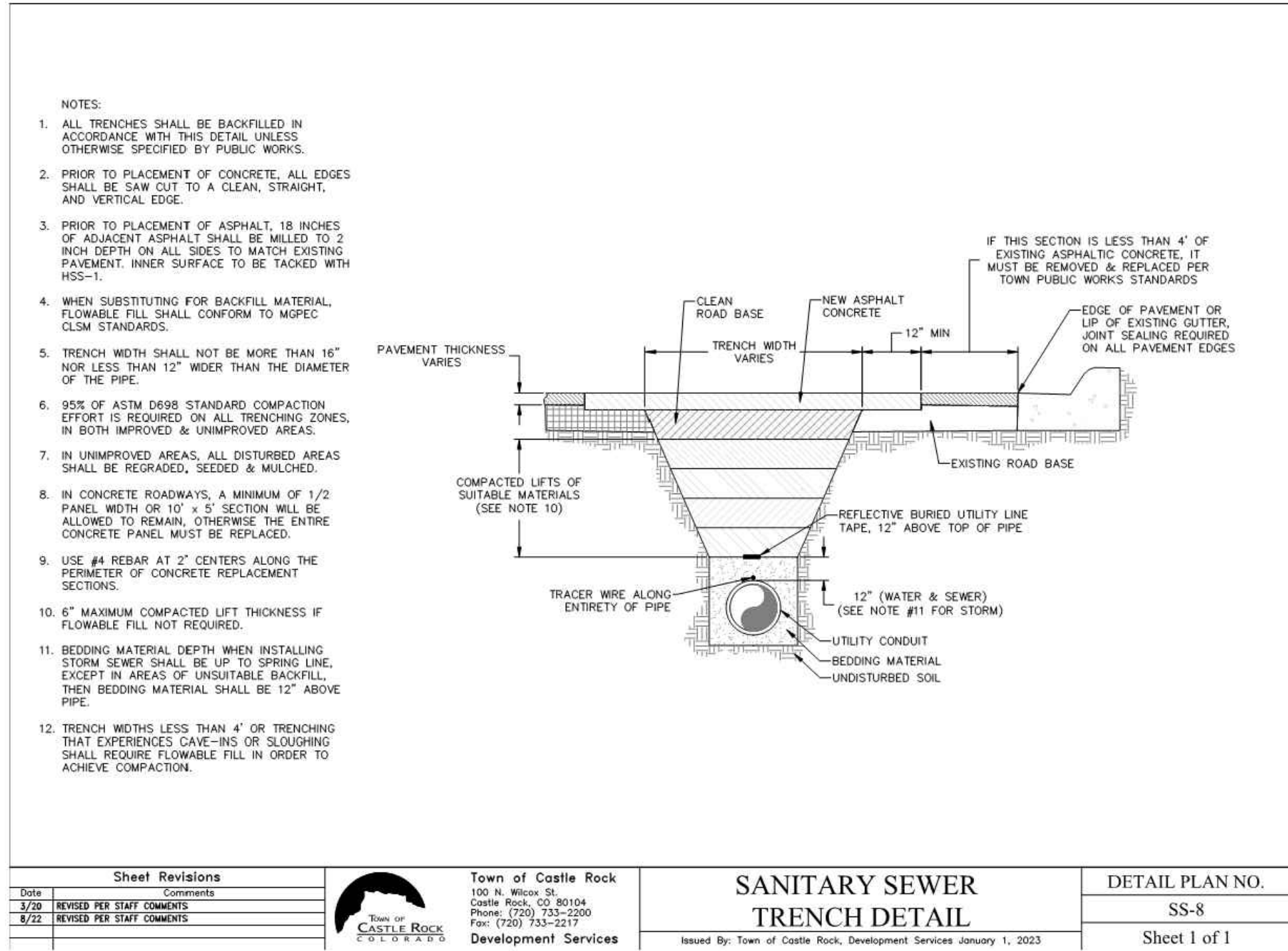
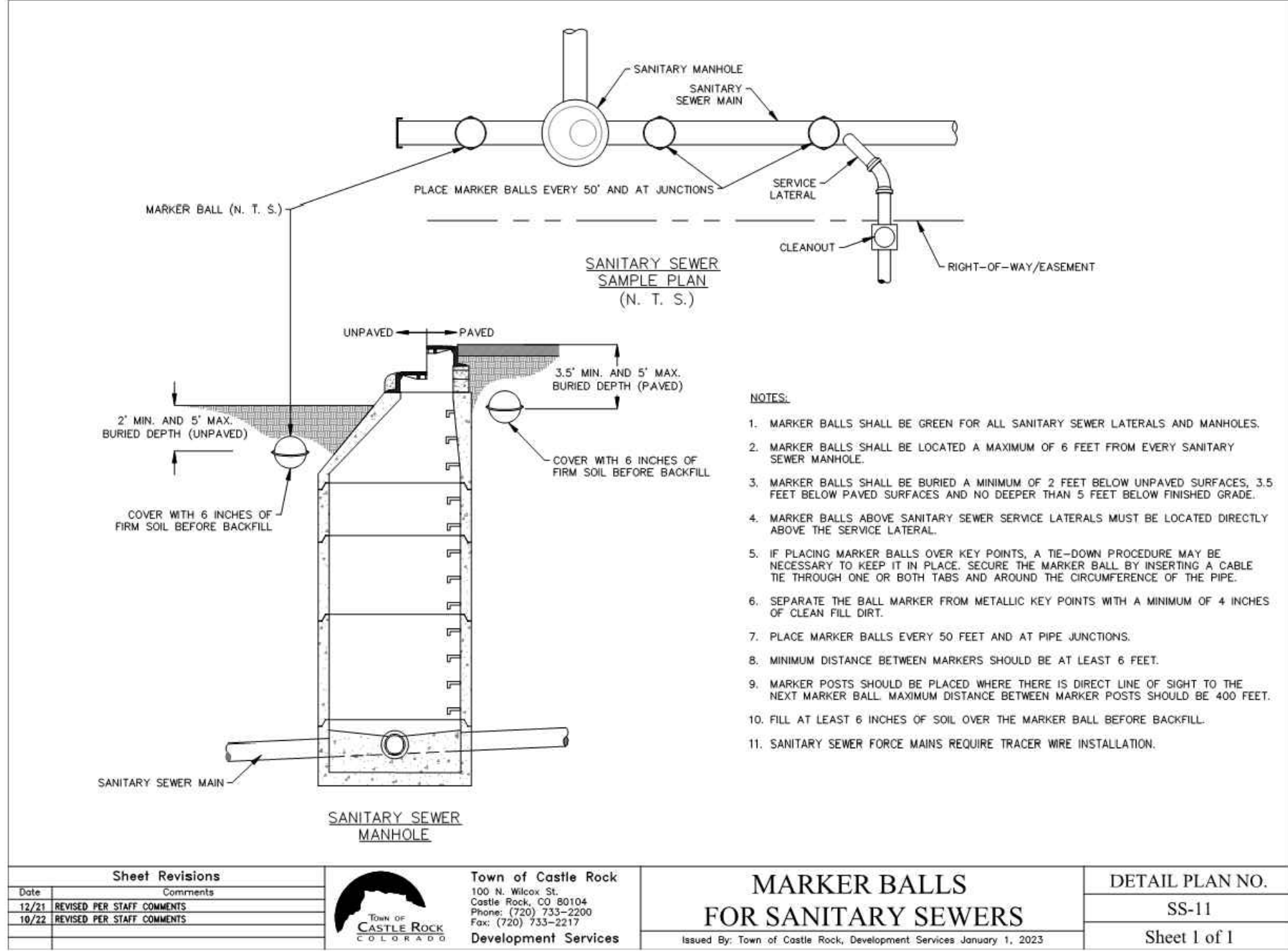
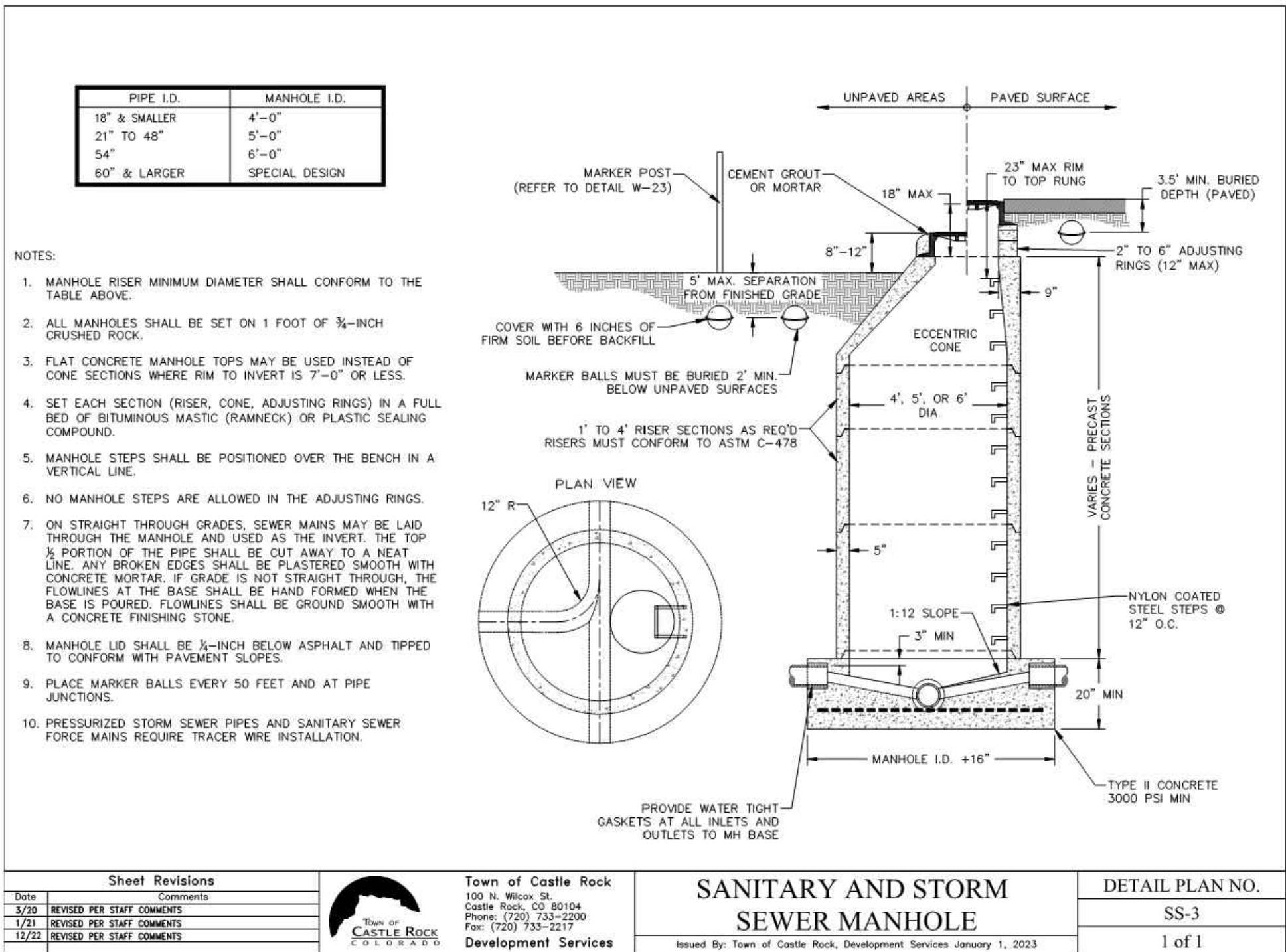
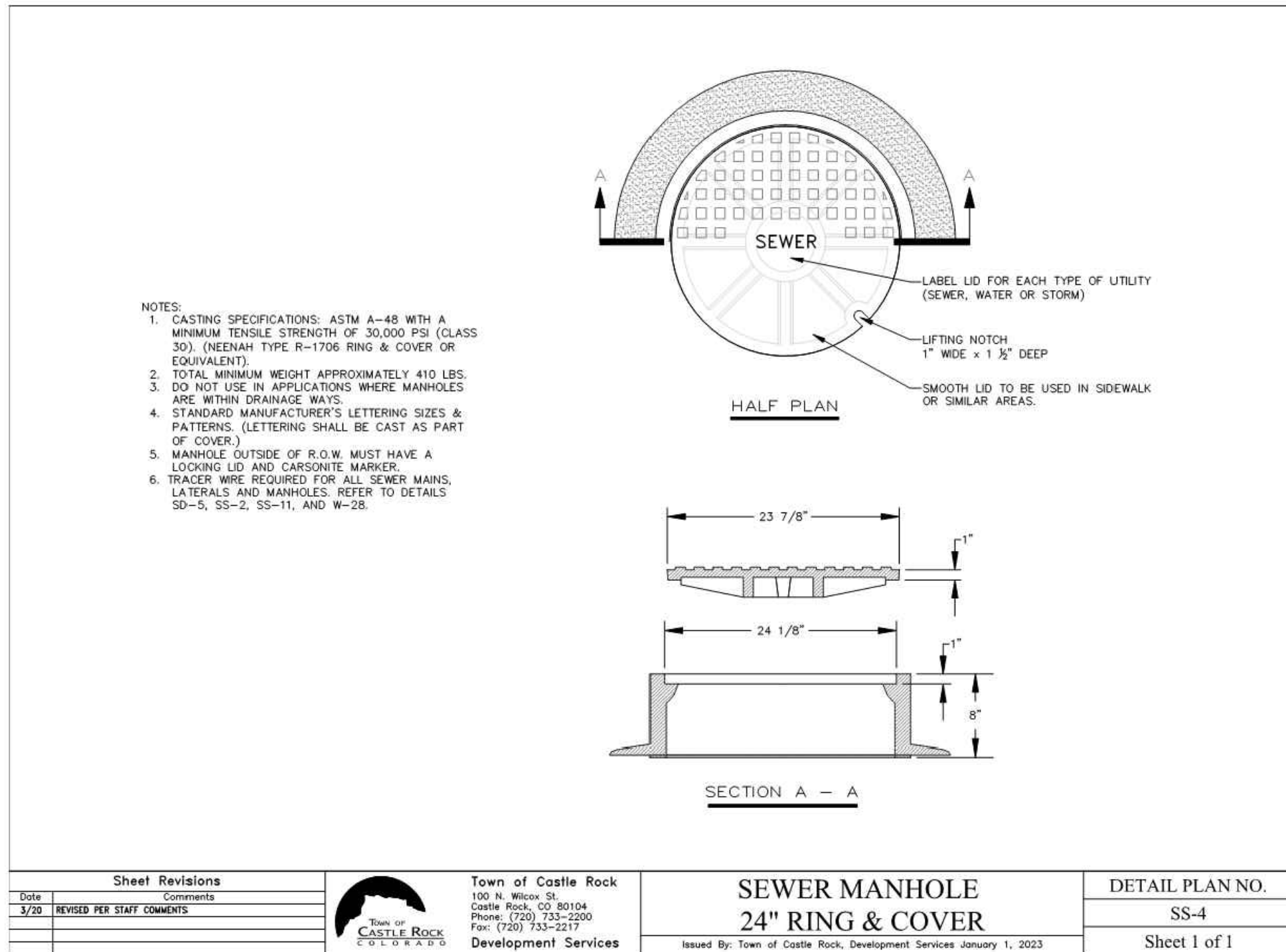
ISSUED FOR BID					DESIGNED EAW	DRAWN BAS	CHECKED LJS	VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4 DOUGLAS COUNTY, CO OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1	SANITARY SEWER MAIN PLAN AND PROFILE SEWER LATERALS STA 18+21.49 AND STA 39+12.51	SCALE AS SHOWN JOB NO 1946051'00 DATE MAY 2023 SHEET 10 OF 13 C-07
	NO	REVISION	DATE	BY						

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SCALES
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Kennedy Jenks



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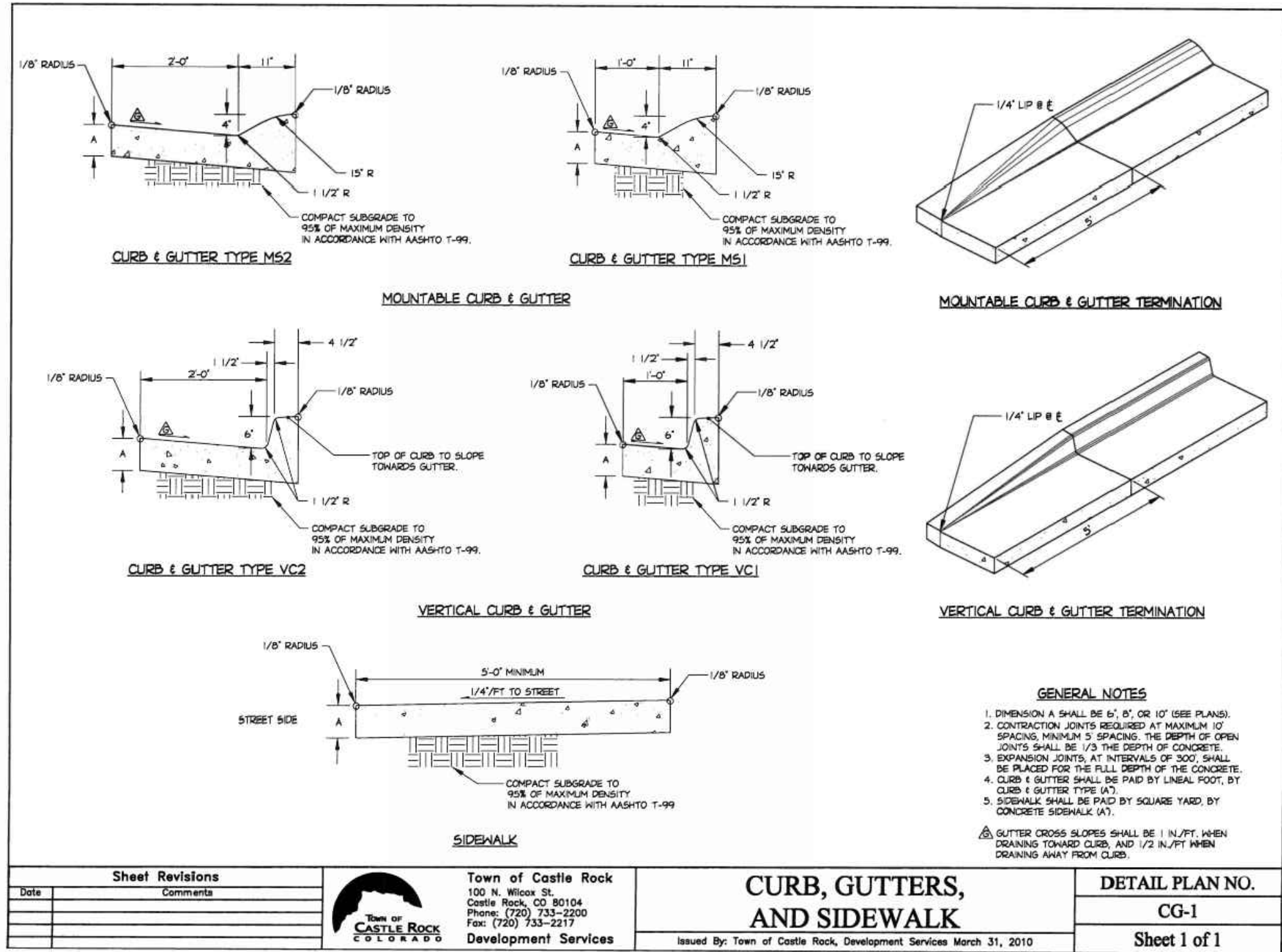
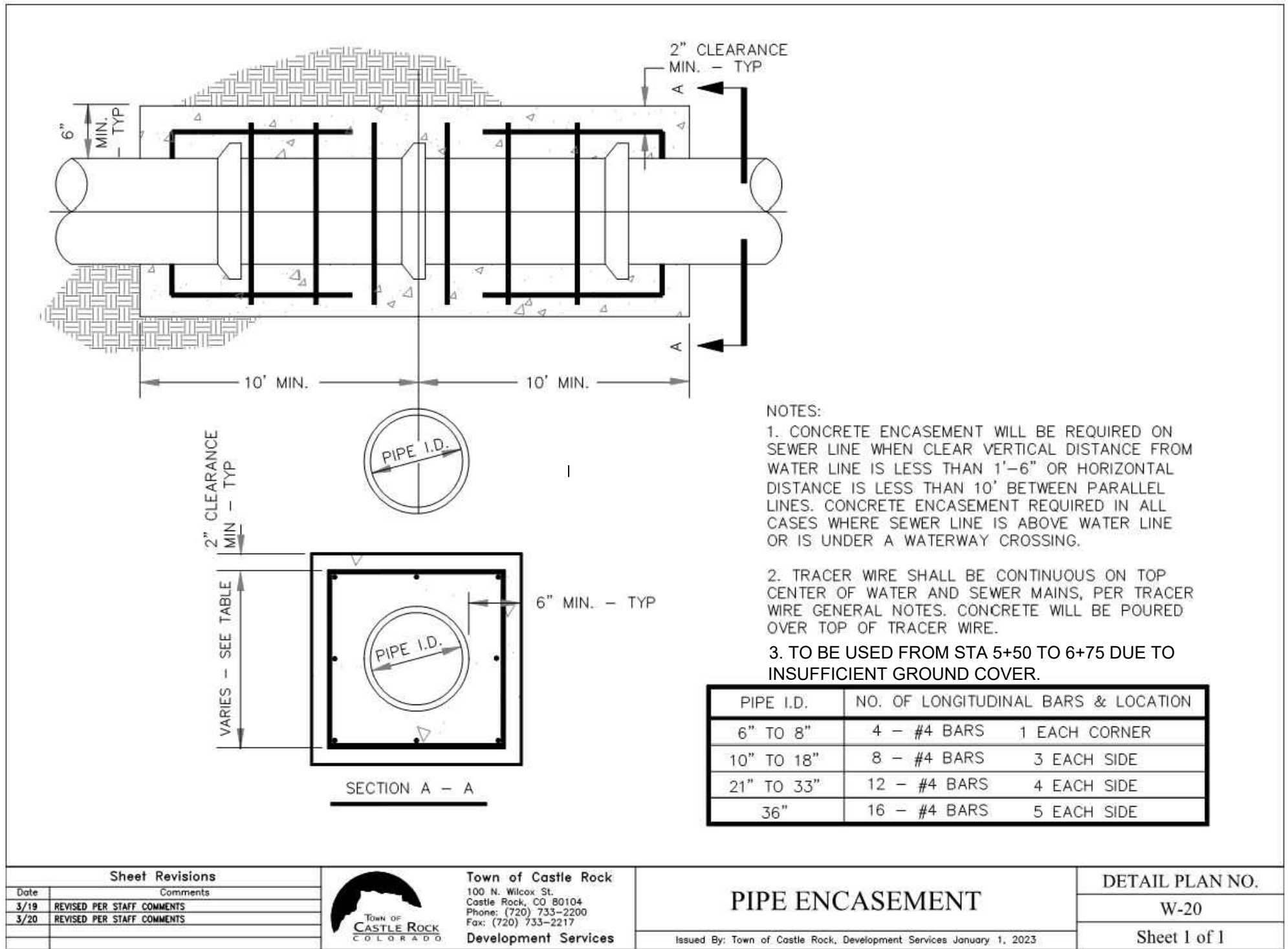
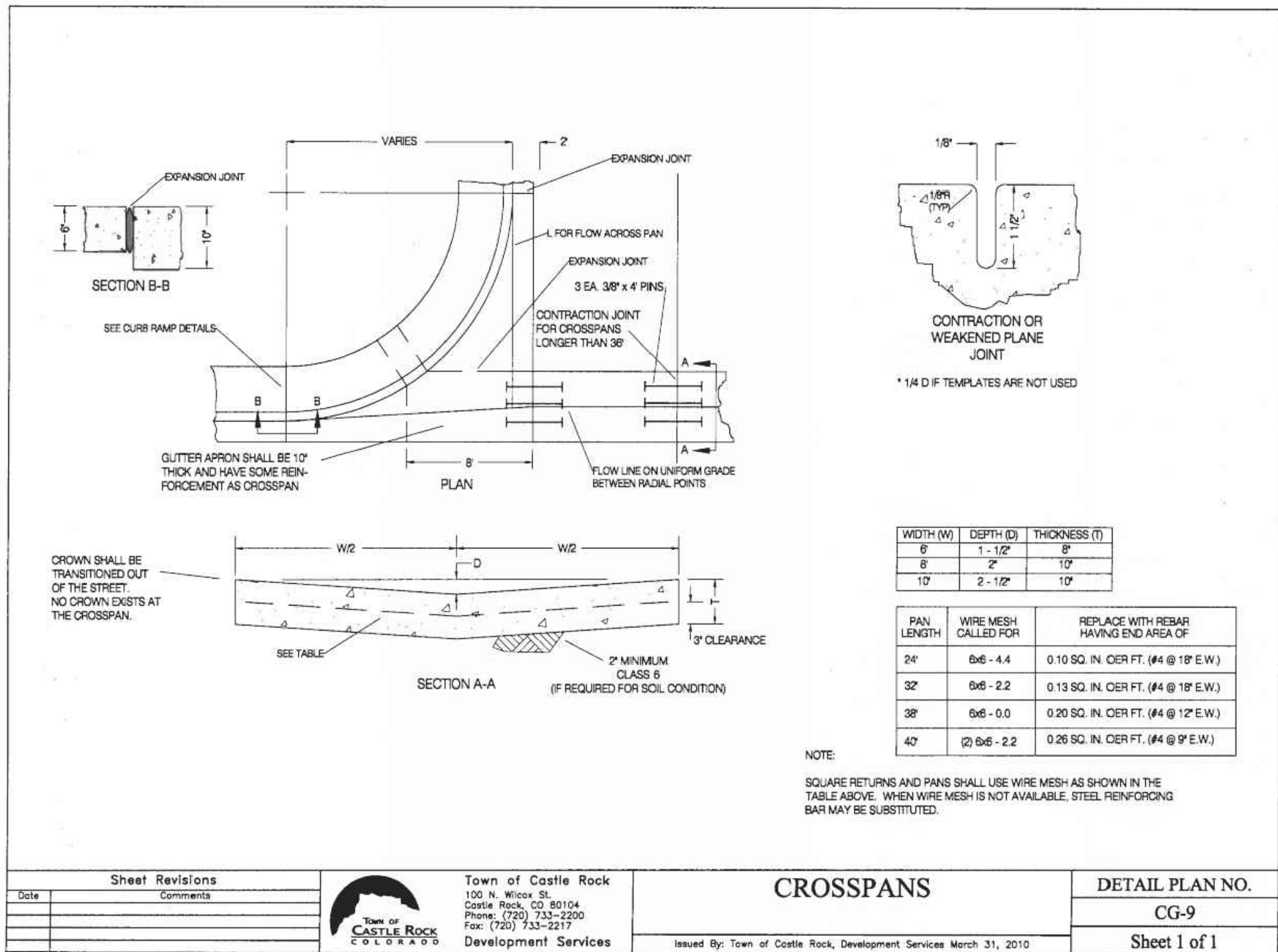
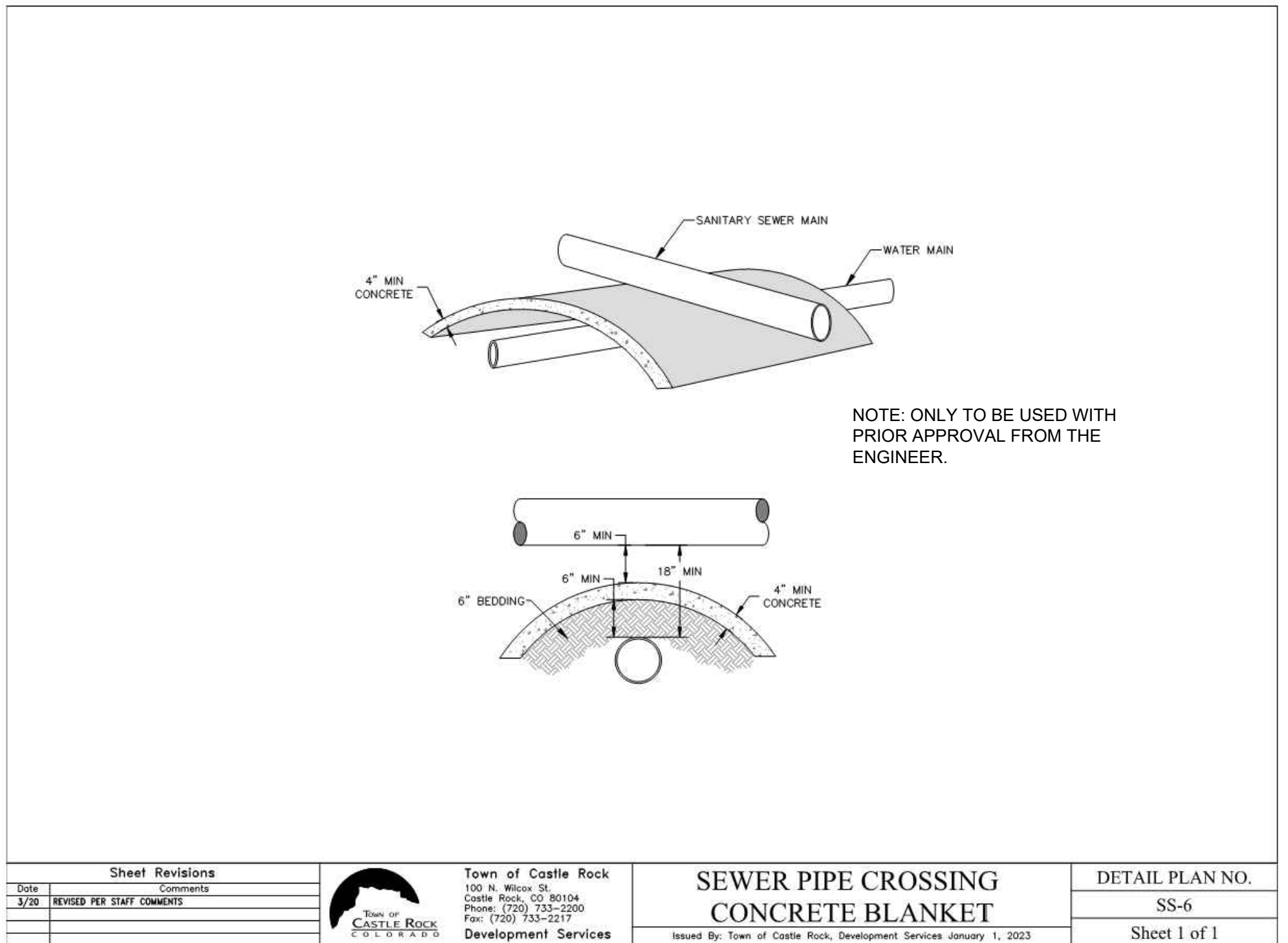
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LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

DETAILS I

SCALE
NTS
JOB NO
1946051'00
DATE
MAY 2023
SHEET 11 OF 13
D-01



PROFESSIONAL ENGINEER'S CERTIFICATION

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DRAWN BAS/EAW
CHECKED LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

Kennedy Jenks

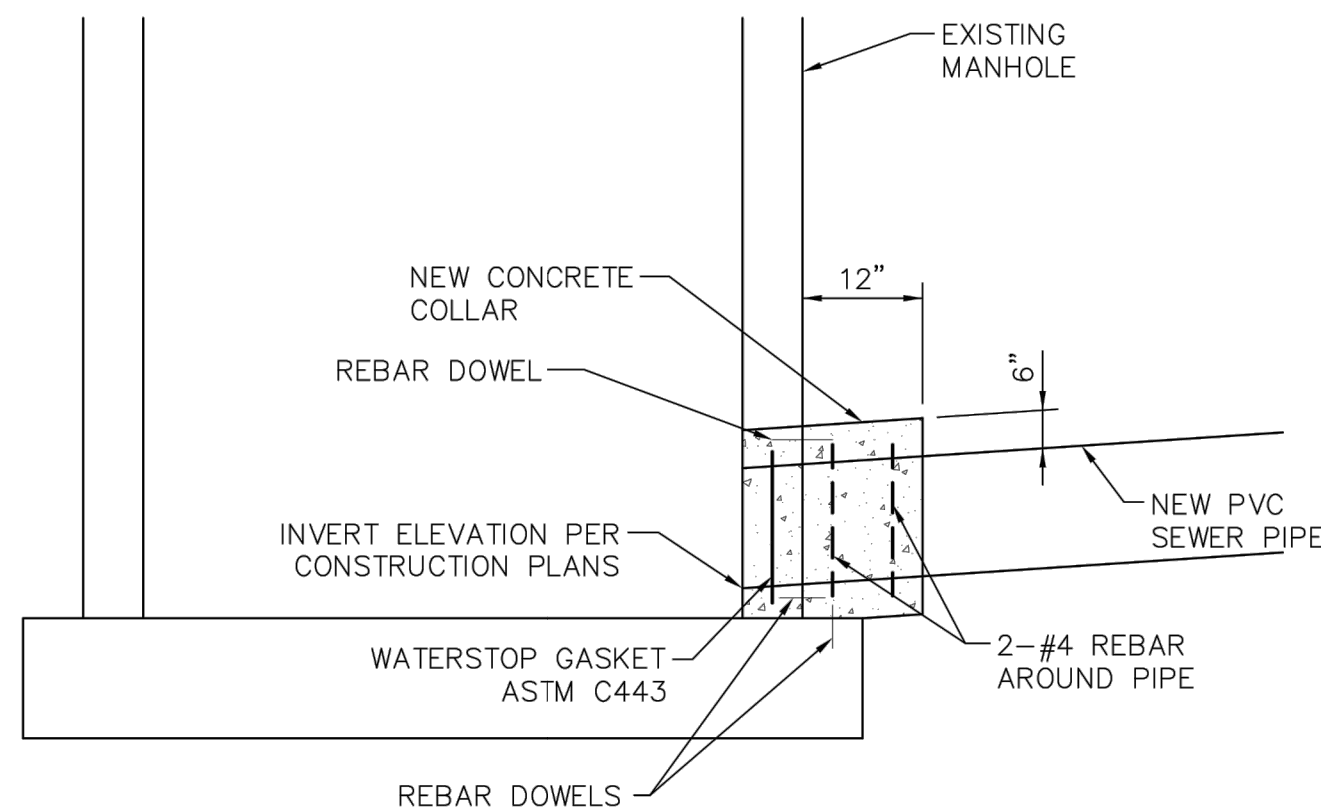
DETAILS II

SCALE NTS
JOB NO 1946051'00
DATE MAY 2023
SHEET 12 OF 13 D-02

Plot Date: 5/29/2023 7:51 PM

User: BENJAMIN SHRIBER

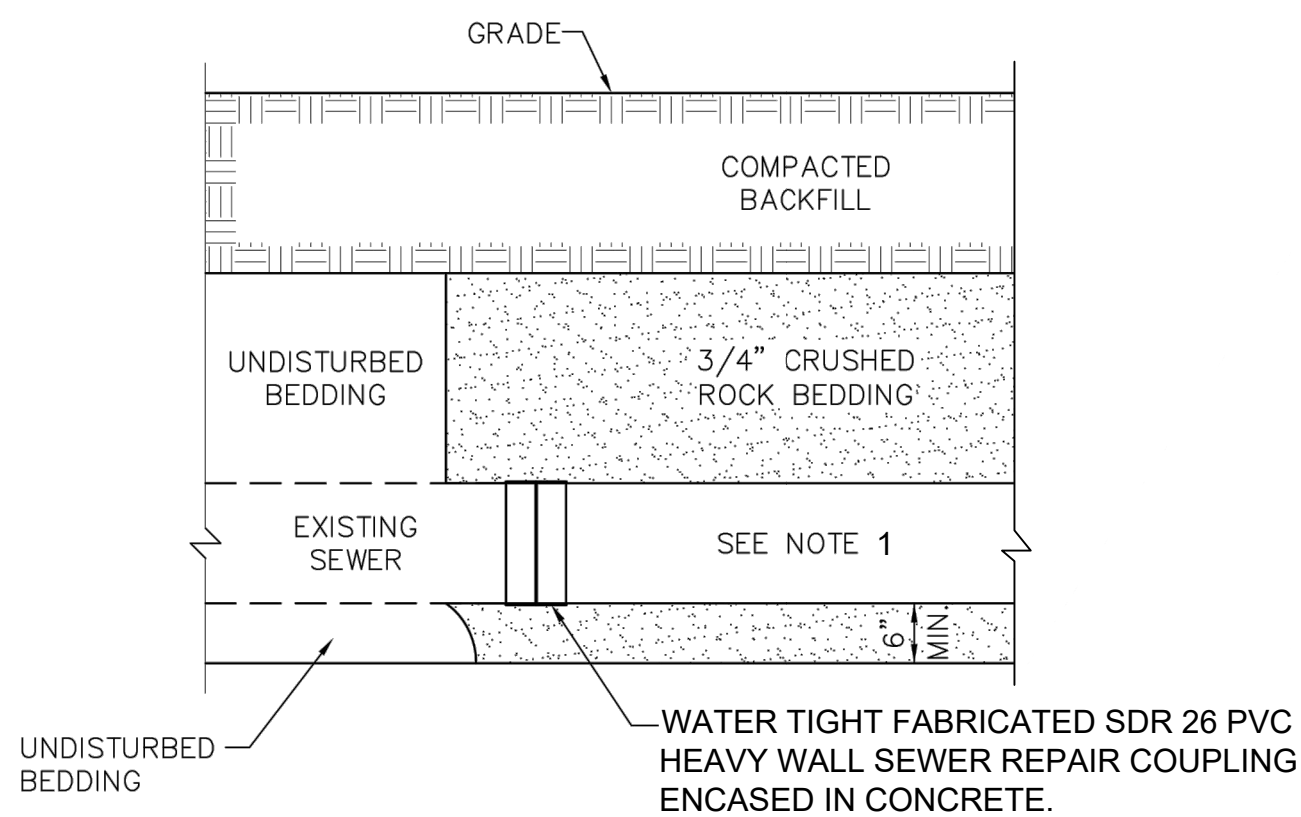
File: P:\2019\1946051\VCOR Founders Vill - W. Memmen Lift Station\1-Sheets\UD-03 - CASTLE ROCK DETAILS III.dwg



NOTES:

1. USE CONCRETE BONDING AGENT BETWEEN NEW CONCRETE AND THE EXISTING PRECAST CONCRETE.
2. CORE DIAMETER IN EXIST. MH TO BE ONE PIPE-SIZE LARGER THAN PROPOSED TIE-IN PIPE.
3. RESHAPE INVERTS & BENCHES USING CONCRETE TO ACHIEVE PROPER FLOW THROUGH MANHOLE AS NEEDED.

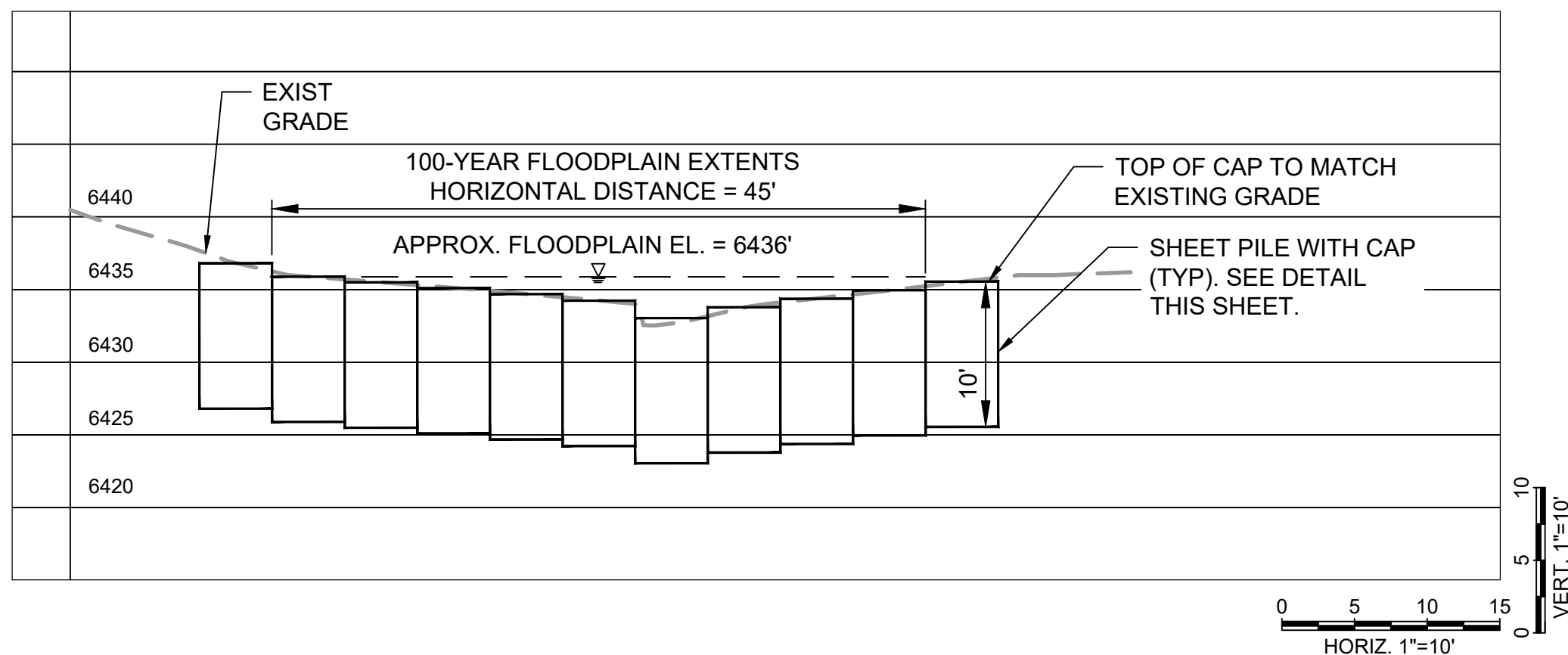
A CONNECTION TO EXISTING MANHOLE
C-02 SCALE: NTS



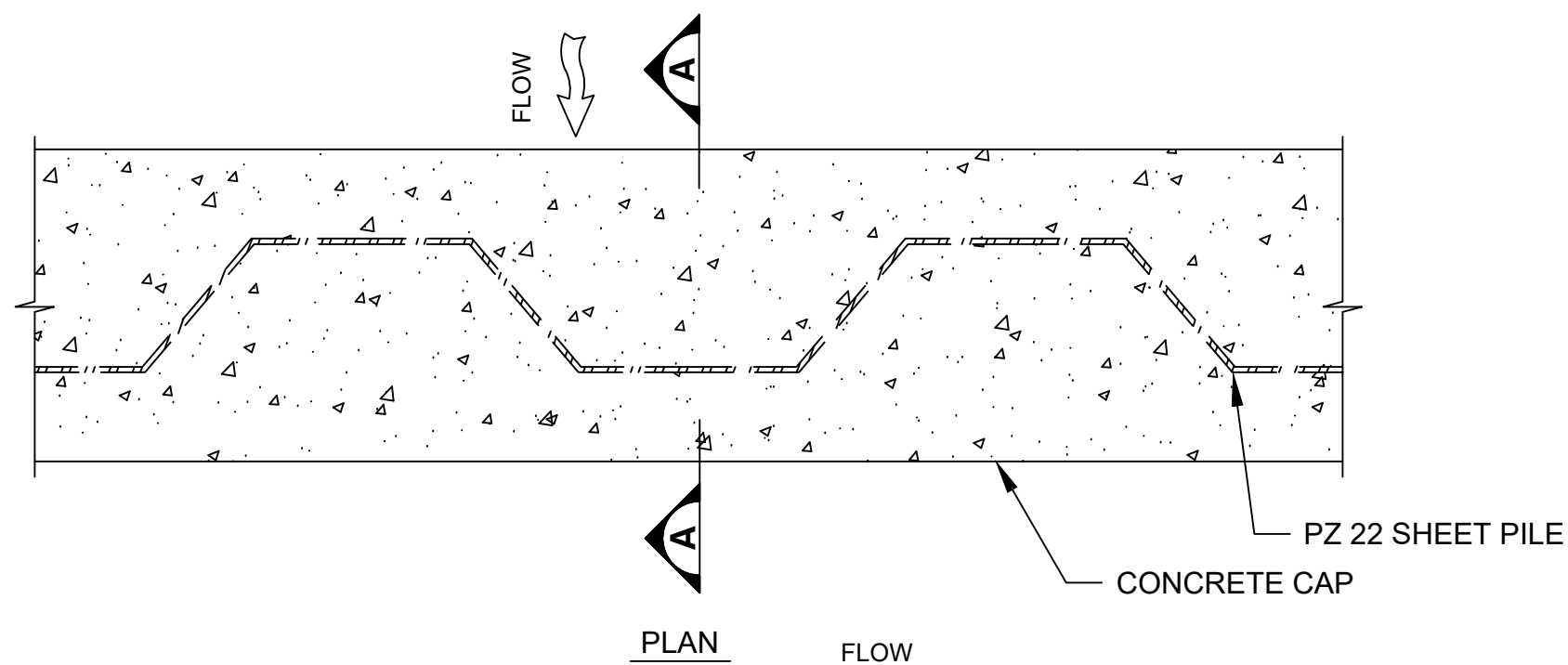
NOTES:

1. CONNECTING PIPE SHALL BE PVC PIPE OF A CLASS AT LEAST EQUAL TO THE EXISTING PIPE, BUT IN NO CASE LESS THAN THE FOLLOWING MINIMUM CLASS. FOR LINES 15-INCHES IN DIAMETER OR LESS, ASTM D3034 SDR 35, FOR LINES 18-INCHES IN DIAMETER OR LARGER, ASTM F679. THE OWNER MAY REQUIRE OTHER MATERIALS AND REPAIR TECHNIQUES ON A CASE BY CASE BASIS.

B CONNECTION TO EXISTING SANITARY SEWER PIPE
C-02 SCALE: NTS



C SHEET PILE CUT-OFF WALL - SECTION
C-01 SCALE: AS SHOWN



NOTE:

1. TOP OF CAP TO BE AT FINISHED GRADE WITHIN RIPRAP LIMITS.

D SHEET PILE CAP
C-01 SCALE: NTS

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CHECKED	LJS

VILLAGES AT CASTLE ROCK METRO DISTRICT NO. 4
DOUGLAS COUNTY, CO
OUTFALL SEWER - PLUM CREEK PKWY. - SEGMENT 1

KJ Kennedy Jenks

DETAILS III

SCALE	AS SHOWN
JOB NO	1946051'00
DATE	MAY 2023
SHEET	13 OF 13
D-03	