

PLANS FOR CONSTRUCTION 2025 SANITARY SEWER SYSTEM IMPROVEMENTS

FOR KREMMLING SANITATION DISTRICT GRAND COUNTY, COLORADO

JULY, 2025
EE JOB # 0010.0007

PREPARED FOR:

KREMMLING SANITATION DISTRICT

200 EAGLE AVENUE
KREMMLING, CO 80459

SANITATION DISTRICT

SUPERVISOR:

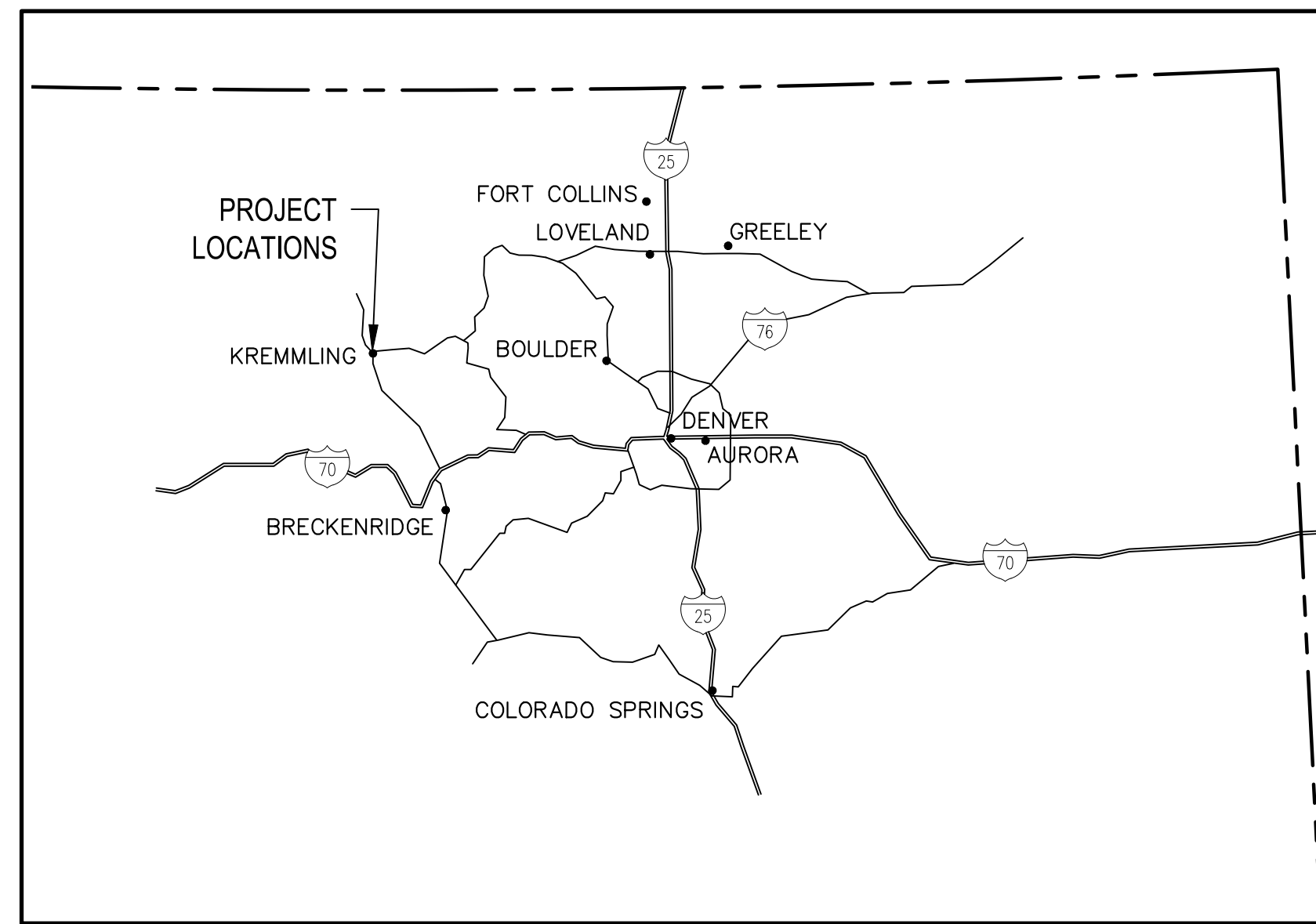
SCOTT WEBER
970.531.0483

ENGINEERING

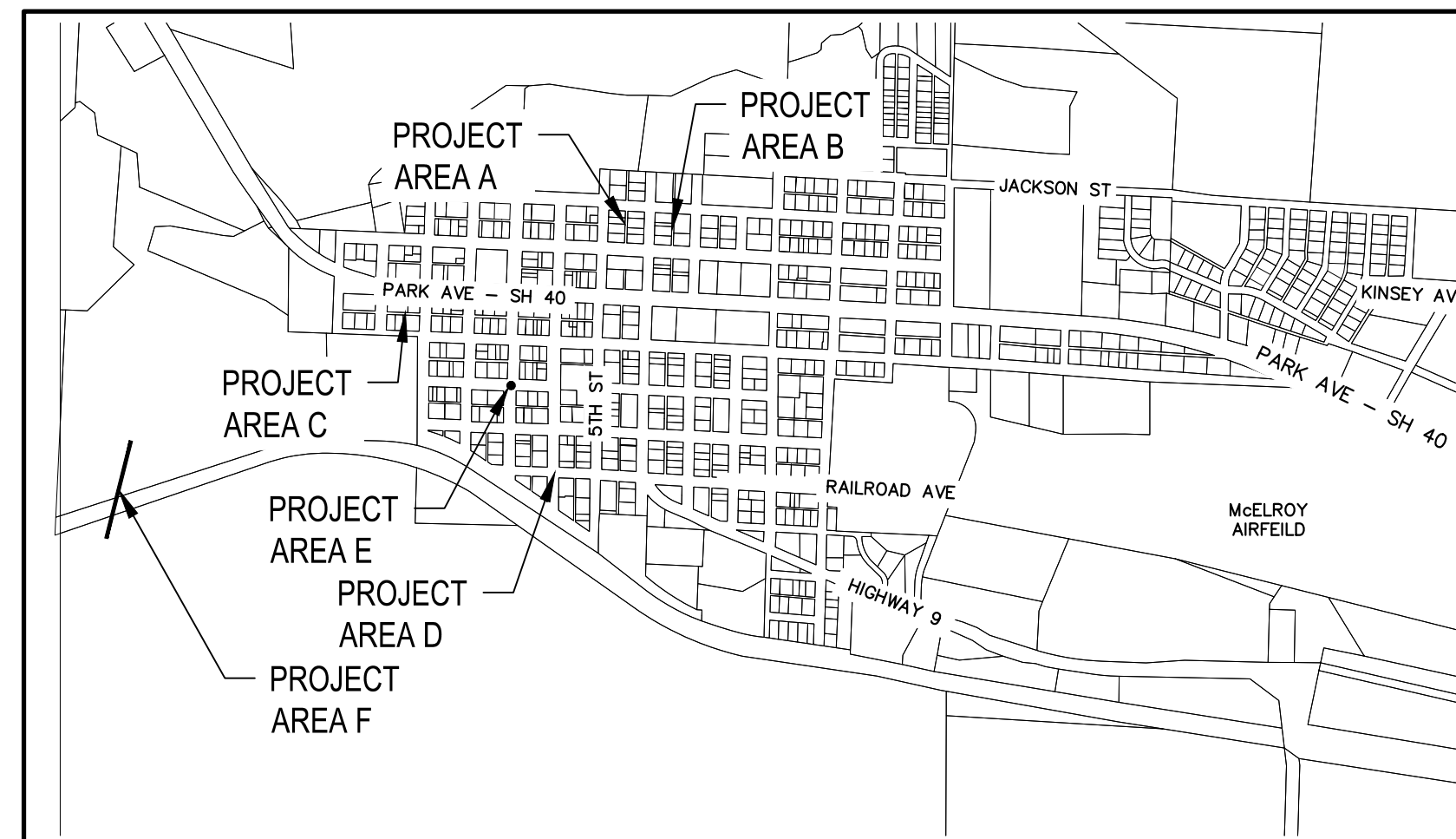
ELEMENT ENGINEERING, LLC
NICHOLAUS P. MARCOTTE, P.E. #47164
12687 W. CEDAR DRIVE, SUITE 300
LAKEWOOD, CO 80228
720.749.4165

SHEET INDEX

SHEET #	SHEET TITLE
C1	COVER SHEET
C2	GENERAL NOTES
C3	AREAS A AND B PLAN AND PROFILE
C4	AREA C AND D PLAN AND PROFILE
C5	AREA E PLAN
C6	AREA F SANITARY SEWER OUTFLOW
C7	DETAILS
C8	DETAILS
C9	CONCRETE HEADWALL DETAILS



LOCATION MAP
NOT TO SCALE

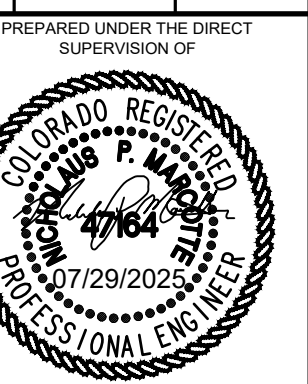


VICINITY MAP
NOT TO SCALE



NO	REVISIONS	DESCRIPTION	DATE	BY

SANITARY SEWER SYSTEM IMPROVEMENTS
COVER SHEET
KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLING, COLORADO 80459



FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

DESIGNED BY: JM CHECKED BY: MH

DISTRICT MANAGER _____ DATE: JULY 2025

THESE PLANS HAVE BEEN APPROVED BY THE KREMMLING SANITATION DISTRICT. A DISTRICT REPRESENTATIVE WILL OBSERVE THE WORK FOR COMPLIANCE WITH THE APPROVED PLANS, BUT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF THE FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS AND WITH APPLICABLE RULES AND REGULATIONS. WORK NOT PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS WILL NOT BE ACCEPTED. ACCEPTANCE OF THE WORK DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS UNDER APPLICABLE WARRANTIES.

DATE: JULY 2025
JOB NUMBER: 0010.0007
EDITION: CONST

SHEET: C1 OF C9

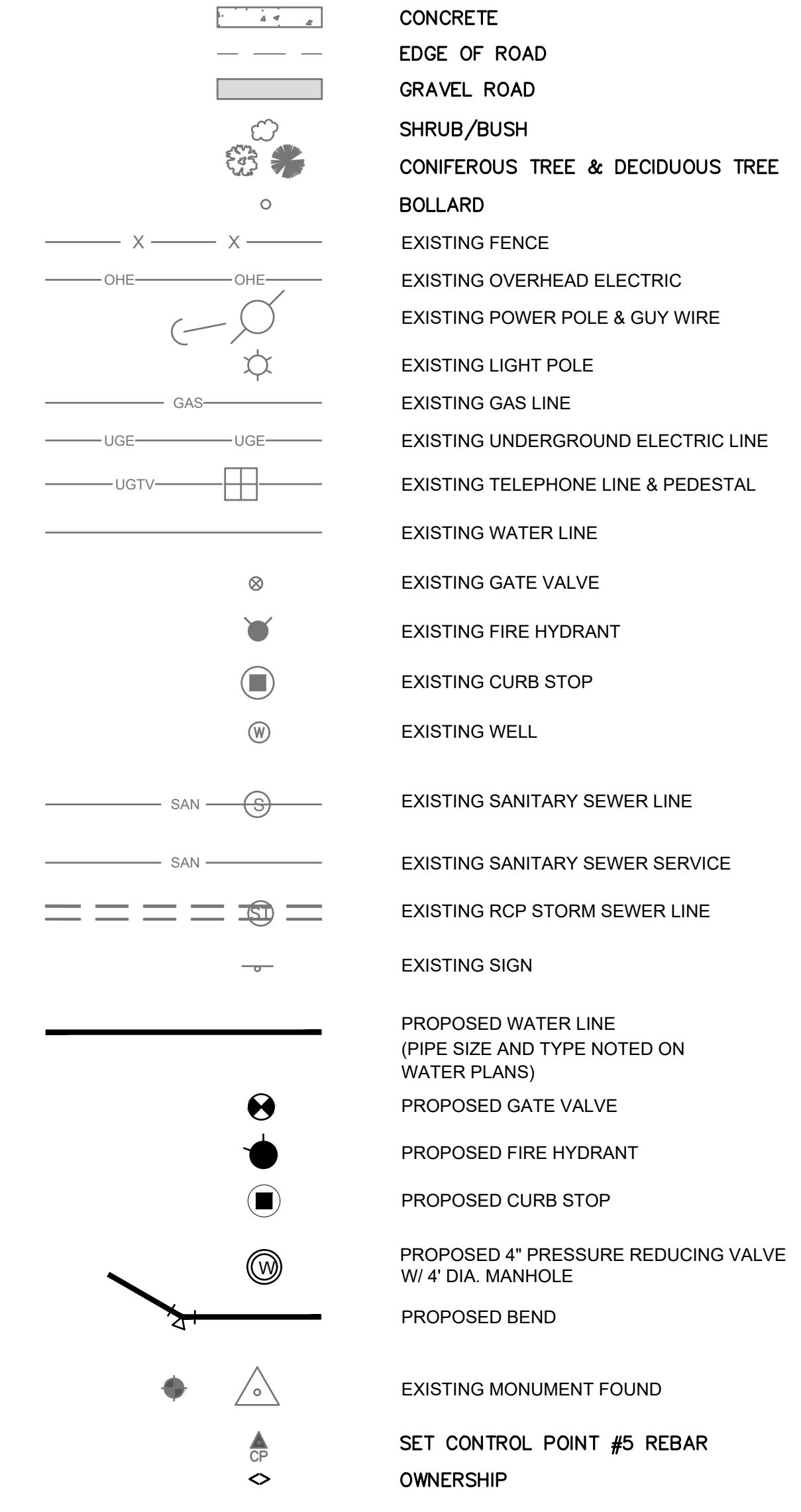
Q:\CO-LAKE\SHARED\PROJECTS\010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\01-COVER.DWG

GENERAL CONSTRUCTION NOTES:

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY THE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE APPROVED BY THE ENGINEER AND DISTRICT, CONSTRUCTION SHALL BE LIMITED TO HOURS BETWEEN 7:00 AM AND 5:00 PM, MONDAY THROUGH FRIDAY.
- THE CONTRACTOR IS TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE DELINEATING CONSTRUCTION MILESTONES AND THE NATURE OF WORK BEING PERFORMED. THE SCHEDULE SHALL DETAIL ACTIVITIES FROM THE START OF CONSTRUCTION THROUGH STARTUP. THIS SCHEDULE SHALL BE PROVIDED TO THE ENGINEER TWO (2) WEEKS PRIOR TO CONSTRUCTION AND UPDATED WEEKLY.
- THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT AND PERFORM WORK INCLUDING CONSTRUCTION, COMMISSIONING, AND STARTUP OF THE COMPLETED INSTALLATION OF THE LIFT STATION AND ALL OTHER IMPROVEMENTS SHOWN OR IMPLIED AS NECESSARY FOR THE COMPLETED STATION, READY FOR USE.
- THE ENGINEER HAS ATTEMPTED TO LOCATE EXISTING SUBSURFACE UTILITIES, HOWEVER, SOME MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL POthOLE AS NECESSARY AND EXERCISE CARE IN HIS WORK SO AS TO AVOID DAMAGE TO ANY UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING. ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING THE WORK.
- ANY SUBSURFACE CONDITIONS ENCOUNTERED THAT ARE UNUSUAL OR DIFFERENT THAN THOSE INDICATED BY THE ENGINEER SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL PERMITS REQUIRED OF THIS WORK AND SHALL FAITHFULLY ADHERE TO THE ALL PERMIT REQUIREMENTS.
- TEMPORARY AND PERMANENT EROSION CONTROL STRUCTURE METHODS SHALL BE IN ACCORDANCE WITH GRAND COUNTY AND ARE TO BE UTILIZED DURING CONSTRUCTION.
- ALL EROSION CONTROL STRUCTURES SHOWN OR AS REQUIRED DURING CONSTRUCTION SHALL BE CONTINUOUSLY MAINTAINED THROUGH WARRANTY PERIOD AND UNTIL RE-VEGETATION TAKES HOLD.
- CONTRACTOR SHALL CLEAN UP, SEED, AND RESTORE DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF THE WORK IN THE AFFECTED AREA AS SHOWN ON THE PLANS.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, CONES IN ACCORDANCE WITH STATE, LOCAL AND FEDERAL GUIDELINES TO ENSURE THE SAFETY OF WORKERS AND THE PUBLIC. ALL BARRICADES AND SIGNS SHALL BE IN PLACE PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITY.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY PROBLEM IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AND THE FACILITY OPERATOR FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, AS WELL AS ANY INDEPENDENT LOCATOR FOR PRIVATE LINES.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY DESIRED INSPECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- TRENCHES SHALL BE COMPACTED THROUGHOUT THE DEPTH OF THE TRENCH PER THE SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN THE CONSTRUCTION FROM THE APPROVED DRAWINGS AS WELL AS THE LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE OWNER'S REPRESENTATIVE UPON REQUEST.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO INITIAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER. ALL INFORMATION SHOWN ON THE CONTRACTOR'S FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION BY THE ENGINEER. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED BY THE ENGINEER, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
- ALL SUBMITTAL RECORDS ARE TO BE KEPT ONSITE AS WELL AS ALL DAILY INSPECTION REPORTS, INCLUDING, BUT NOT LIMITED TO, COMPACTION TESTS, CONCRETE TESTS, ETC.
- ALL EQUIPMENT AND MATERIAL IS TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. ALL EQUIPMENT STARTUP SHALL BE PROVIDED BY A MANUFACTURER APPROVED FIELD REPRESENTATIVE. MANUFACTURER FIELD TRAINING FOR THE OPERATIONS STAFF SHALL ALSO BE PROVIDED AT EITHER THE TIME OF STARTUP OR AT ANOTHER TIME AS APPROVED BY THE OPERATOR.
- MANHOLE VAULT/EXTERIOR JOINTS SHALL BE WRAPPED IN 12" WIDE CONSEAL CS 2012 OR APPROVED EQUAL.
- ALL YARD VALVES SHALL HAVE EXTENSIONS THAT TERMINATE 1-FOOT BELOW THE TOP OF THE VALVE BOX.
- CONTRACTOR SHALL HAUL OFF AND DISPOSE OF ANY EXCESS SPOIL MATERIAL, ANY MISCELLANEOUS DEBRIS, AND ANY STRUCTURES, PIPING OR OTHER DEBRIS CALLED OUT TO BE DEMOLISHED AT HIS OWN EXPENSE. ALL MATERIAL MUST BE DISPOSED OF IN AN APPROVED OFFSITE LOCATION.
- PIPE, FITTINGS, AND ACCESSORIES SHALL BE HANDLED IN SUCH A MANNER THAT WILL ENSURE INSTALLATION IN SOUND, UNDAMAGED CONDITION. EQUIPMENT, TOOLS, AND METHODS USED IN HANDLING AND INSTALLING PIPE AND FITTINGS SHALL NOT DAMAGE THE PIPE AND FITTINGS.
- THE INTERIOR OF ALL PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER PRIOR TO INSTALLATION. BEFORE JOINTING, ALL JOINT CONTACT SURFACES SHALL BE WIRE BRUSHED IF NECESSARY, WIPED CLEAN, AND KEPT CLEAN UNTIL JOINTING IS COMPLETED.
- PRECAUTIONS SHALL BE TAKEN TO PREVENT FOREIGN MATERIAL FROM ENTERING THE PIPE DURING INSTALLATION. DEBRIS, TOOLS, CLOTHING, OR OTHER OBJECTS SHALL NOT BE PLACED IN OR ALLOWED TO ENTER THE PIPE.
- CUTTING SHALL BE DONE IN A NEAT MANNER, WITHOUT DAMAGE TO THE PIPE OR THE LINING. CUTS SHALL BE SMOOTH, STRAIGHT, AND AT RIGHT ANGLES TO THE PIPE AXIS. AFTER CUTTING, THE ENDS OF THE PIPE SHALL BE DRESSED WITH A FILE OR POWER GRINDER TO REMOVE ALL ROUGHNESS AND SHARP EDGES. THE CUT ENDS OF PUSH-ON JOINT PIPE SHALL BE SUITABLY BEVELED.
- NO DEFLECTION SHALL BE PERMITTED ON INTERIOR PIPE AND FITTINGS. THE WEIGHT OF PIPING AND VALVES SHALL NOT BEAR ON ANY EQUIPMENT.
- WHEN INSTALLING FLEXIBLE COUPLINGS OR FLANGE ADAPTORS, CARE SHALL BE TAKEN THAT THE CONNECTING PIPE ENDS, COUPLINGS, AND GASKETS ARE CLEAN AND FREE OF ALL DIRT AND FOREIGN MATTER WITH SPECIAL ATTENTION BEING GIVEN TO THE CONTACT SURFACES OF THE PIPE, GASKETS, AND COUPLINGS. THESE COUPLINGS SHALL BE ASSEMBLED AND INSTALLED IN CONFORMITY WITH THE RECOMMENDATIONS AND

INSTRUCTIONS OF THE COUPLING MANUFACTURER.

- WRENCHES USED IN BOLTING COUPLINGS SHALL BE OF A TYPE AND SIZE RECOMMENDED BY THE COUPLING MANUFACTURER. COUPLING BOLTS SHALL BE TIGHTENED SO AS TO SECURE A UNIFORM ANNULAR SPACE BETWEEN THE FOLLOWER RINGS AND THE BODY OF THE PIPE AND ALL BOLTS TIGHTENED APPROXIMATELY THE SAME AMOUNT.
- DIAMETRICALLY OPPOSITE NUTS SHALL BE TIGHTENED PROGRESSIVELY AND EVENLY. FINAL TIGHTENING SHALL BE DONE WITH A TORQUE LIMITING WRENCH SET FOR THE TORQUE RECOMMENDED BY THE COUPLING MANUFACTURER.
- BEFORE THE JOINT IS ASSEMBLED, THE FLANGE FACES SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL WITH A POWER WIRE BRUSH. THE GASKET SHALL BE CENTERED AND THE CONNECTING FLANGES DRAWN UP WATERTIGHT WITHOUT UNNECESSARY STRESSING OF THE FLANGES. ALL BOLTS SHALL BE TIGHTENED IN A PROGRESSIVE DIAMETRICALLY OPPOSITE SEQUENCE USING TORQUE WRENCHES AT SETTINGS RECOMMENDED BY THE MANUFACTURER (75 LB MIN). WHERE DISSIMILAR FLANGES ARE CONNECTED, AN INSULATING CONNECTION SHALL BE PROVIDED.
- ALL JOINTS SHALL BE WATERTIGHT AND FREE FROM LEAKS. EACH LEAK WHICH IS DISCOVERED WITHIN THE CORRECTION PERIOD STIPULATED IN THE GENERAL PROVISIONS SHALL BE REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PUMPING EQUIPMENT; PIPING CONNECTIONS BETWEEN THE PIPING AND THE NEAREST AVAILABLE SOURCE OF TEST WATER; PRESSURE GAUGES; AND OTHER EQUIPMENT, MATERIALS, AND FACILITIES NECESSARY FOR THE TESTS.
- ALL CONTRACTOR INSTALLED PIPE, FITTINGS, VALVES, PIPE JOINTS, AND OTHER MATERIALS THAT ARE FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED WITH NEW AND ACCEPTABLE MATERIALS, AND THE AFFECTED PORTION OF THE PIPING RETESTED BY AND AT THE EXPENSE OF THE CONTRACTOR.
- ALL VALVES SHALL HAVE THE MANUFACTURER AND SIZE OF THE VALVE VISIBLY CAST ON THE BODY OR ON A PLATE ATTACHED TO THE BODY OF THE VALVE. VALVES AND REQUIRED OPERATING APPURTENANCES SHALL BE THE PRODUCT OF THE SAME MANUFACTURER. VALVE SEALS SHALL BE ABLE TO PROVIDE TIGHT CLOSURE AND PREVENT METAL-TO-METAL CONTACT.
- VALVE COMPONENTS SHALL WITHSTAND THE ENVIRONMENTAL CONDITIONS AND PROVIDE CONTINUOUS TROUBLE-FREE SERVICE.
- CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL TIE-IN LOCATIONS TO EXISTING STRUCTURES AND PIPES PRIOR TO BEGINNING WORK. PROVIDE ANY DISCREPANCIES TO ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH THE SUBSEQUENT WORK THAT COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ANY ISSUES ARISING FROM UN-INSPECTED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE CDPHE PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, AND THE EROSION CONTROL PLAN, WHERE APPLICABLE.
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREA IS STABILIZED WITH HARD SURFACE LANDSCAPING. THE DISTRICT MAINTAINS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF NECESSARY DURING CONSTRUCTION.
- ALL EXISTING STRUCTURES, FENCES, SIGNS, AND IMPROVEMENTS DESTROYED, DAMAGED, OR REMOVED DUE TO THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE AND KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DISPOSAL SITE FOR ALL UNUSABLE MATERIAL REMOVED FROM THE PROJECT.
- 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 DISTRICT AND ENGINEER AT ALL TIMES.



ELEMENT ENGINEERING LLC
 12687 W. CEDAR DRIVE, SUITE 300
 LAKEWOOD, CO 80226
 720.749.4165
 WWW.ELEMENTENGINEERING.NET

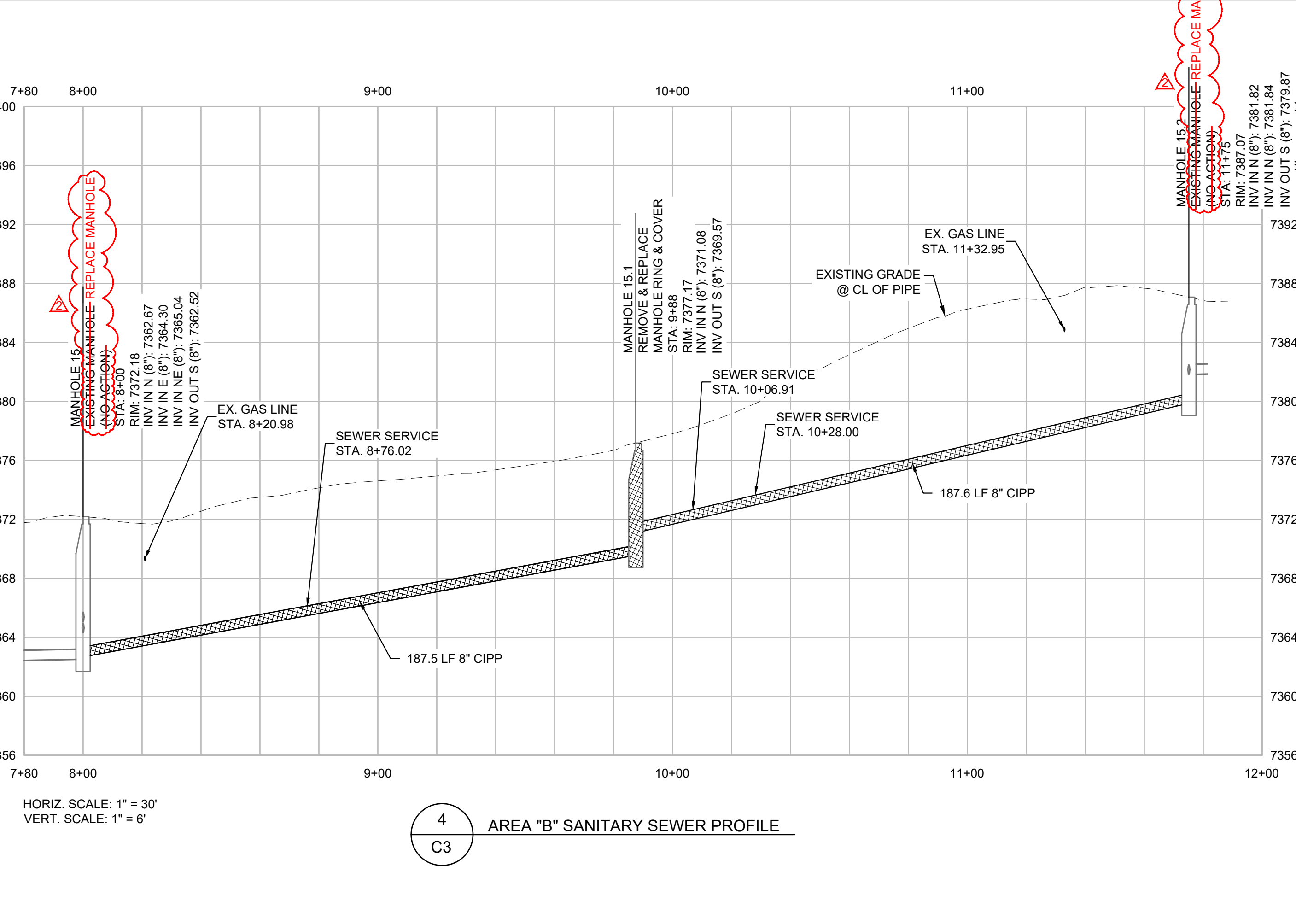
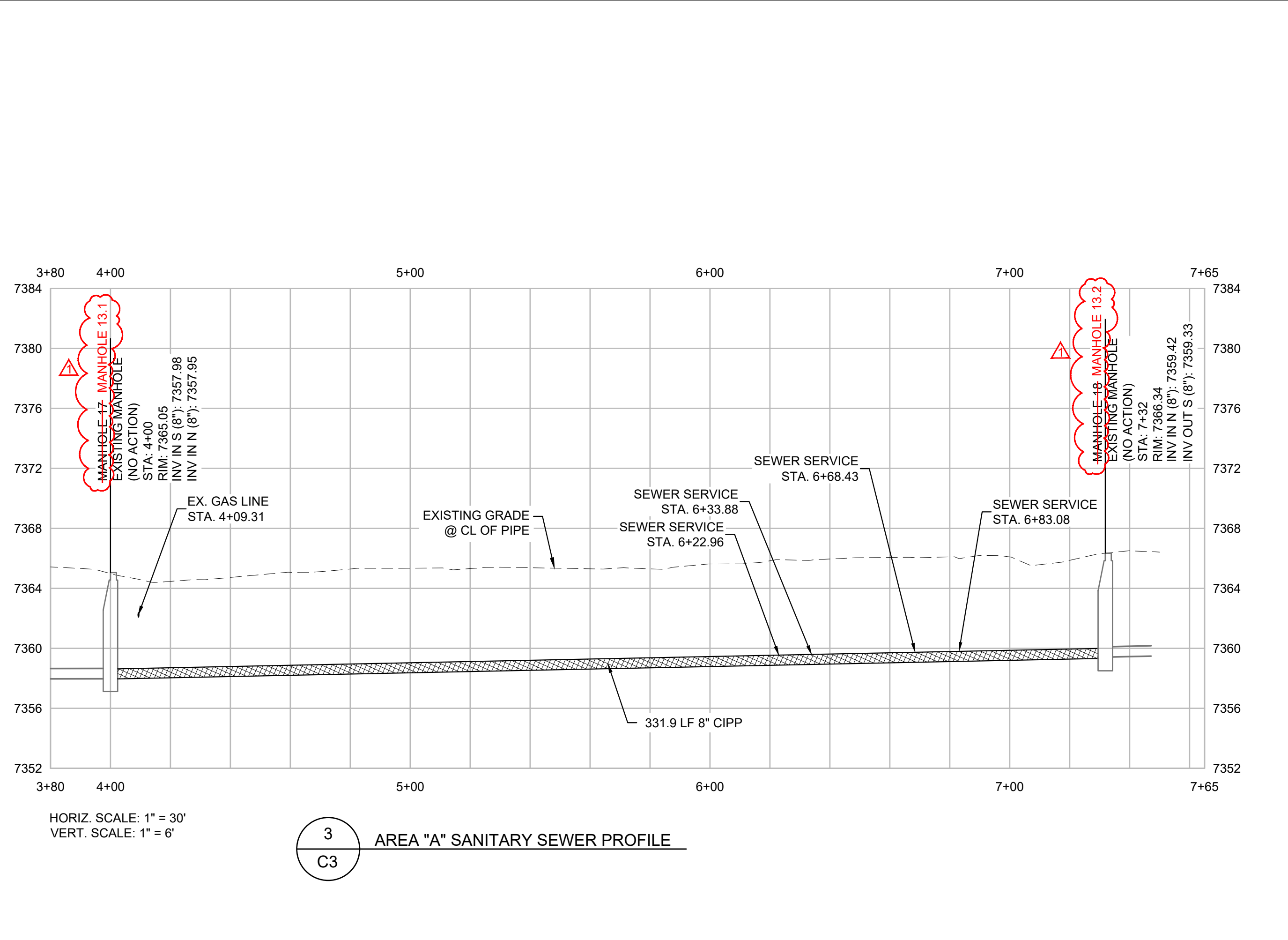
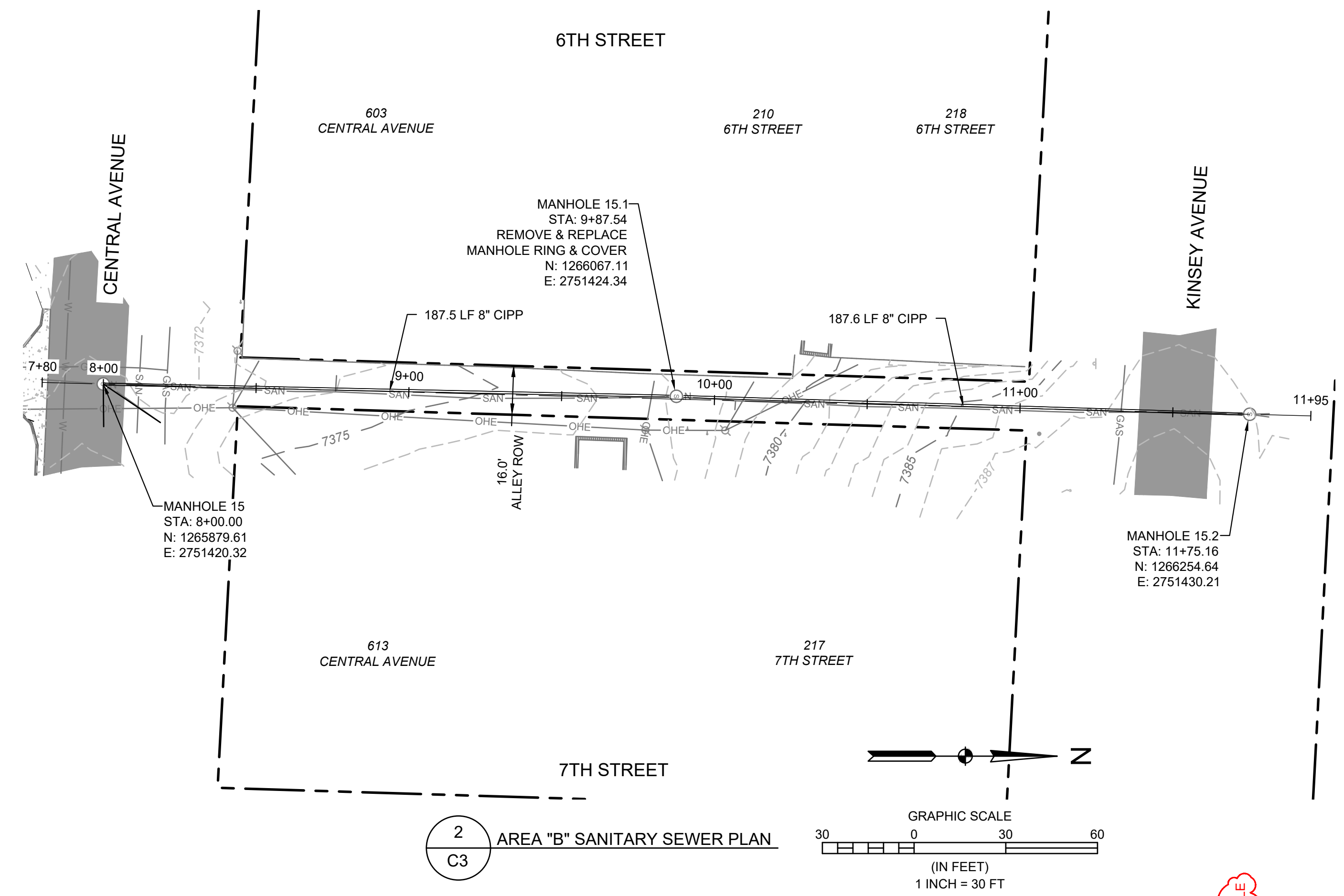
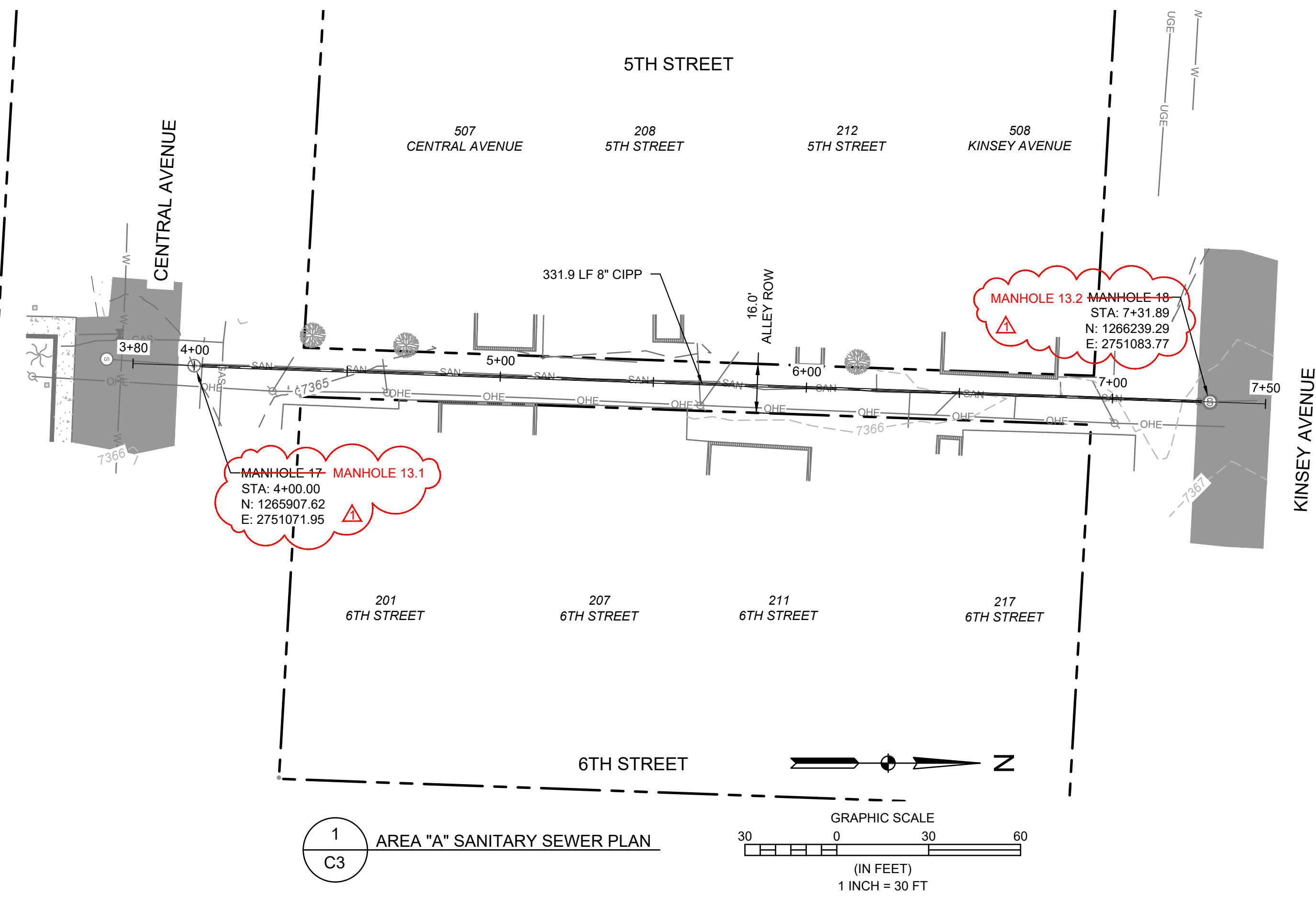
NO	DATE	BY	REVISIONS DESCRIPTION

GENERAL NOTES
 KREMMLING SANITATION DISTRICT
 200 EAGLE AVENUE
 KREMMLINE, COLORADO 80459

PREPARED UNDER THE DIRECT SUPERVISION OF

 FOR AND ON BEHALF OF
 ELEMENT ENGINEERING, LLC
 DESIGNED BY: JM CHECKED BY: MH
 DATE: JULY 2025
 JOB NUMBER: 0010.0007
 EDITION: CONST
 SHEET: C2 OF C9

C:\CO-LAKE\ES\SHARED_PROJECTS\0010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\03-PLAN AND PROFILE.DWG



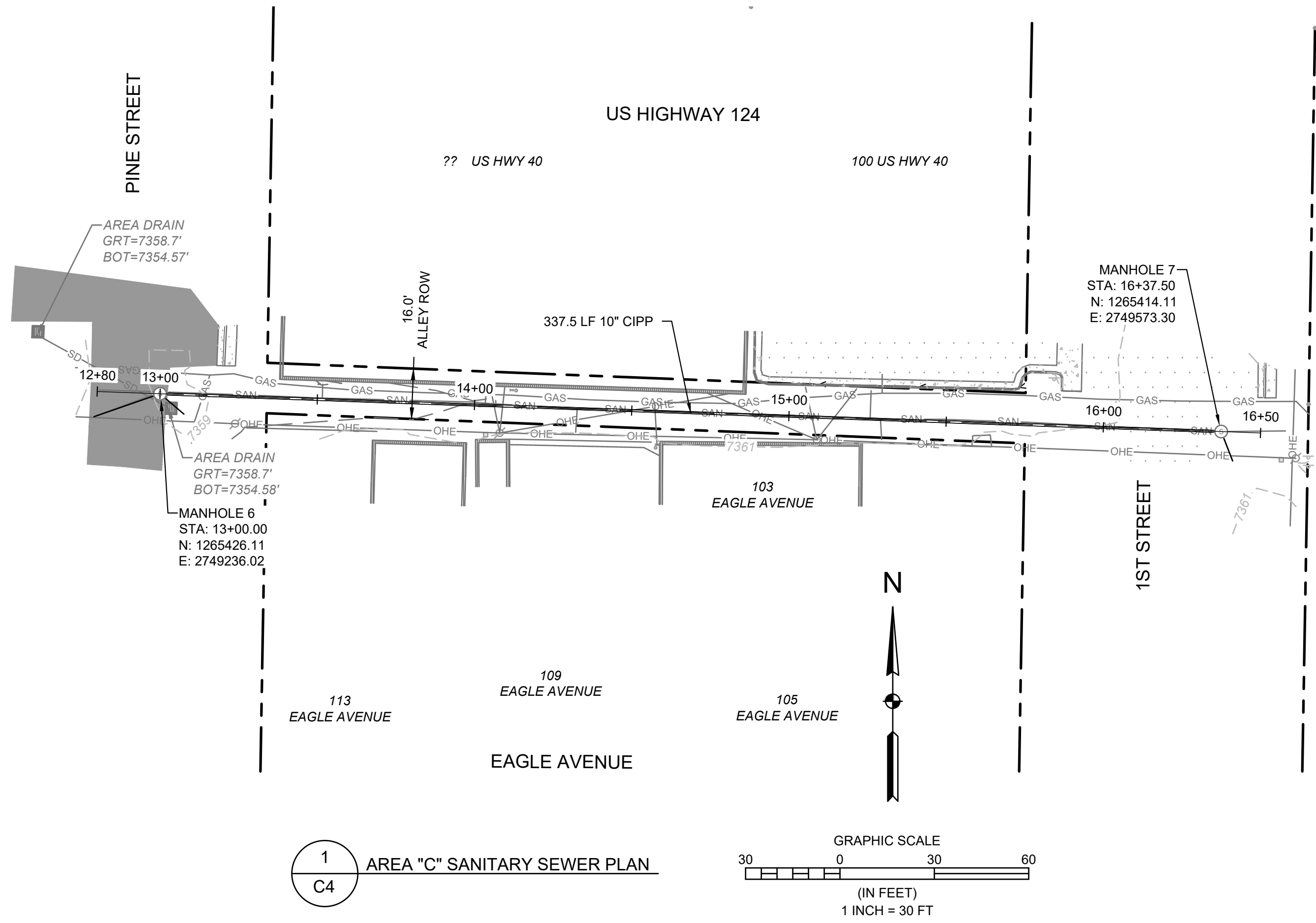
NO.	DATE	BY	DESCRIPTION
1	25-07-02	JAM	REVISED MANHOLE NUMBERS
2	25-07-29	JAM	REVISED MANHOLE REPLACEMENT

SANITARY SEWER SYSTEM IMPROVEMENTS
AREAS A AND B PLAN AND PROFILE
KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLINE, COLORADO 80459

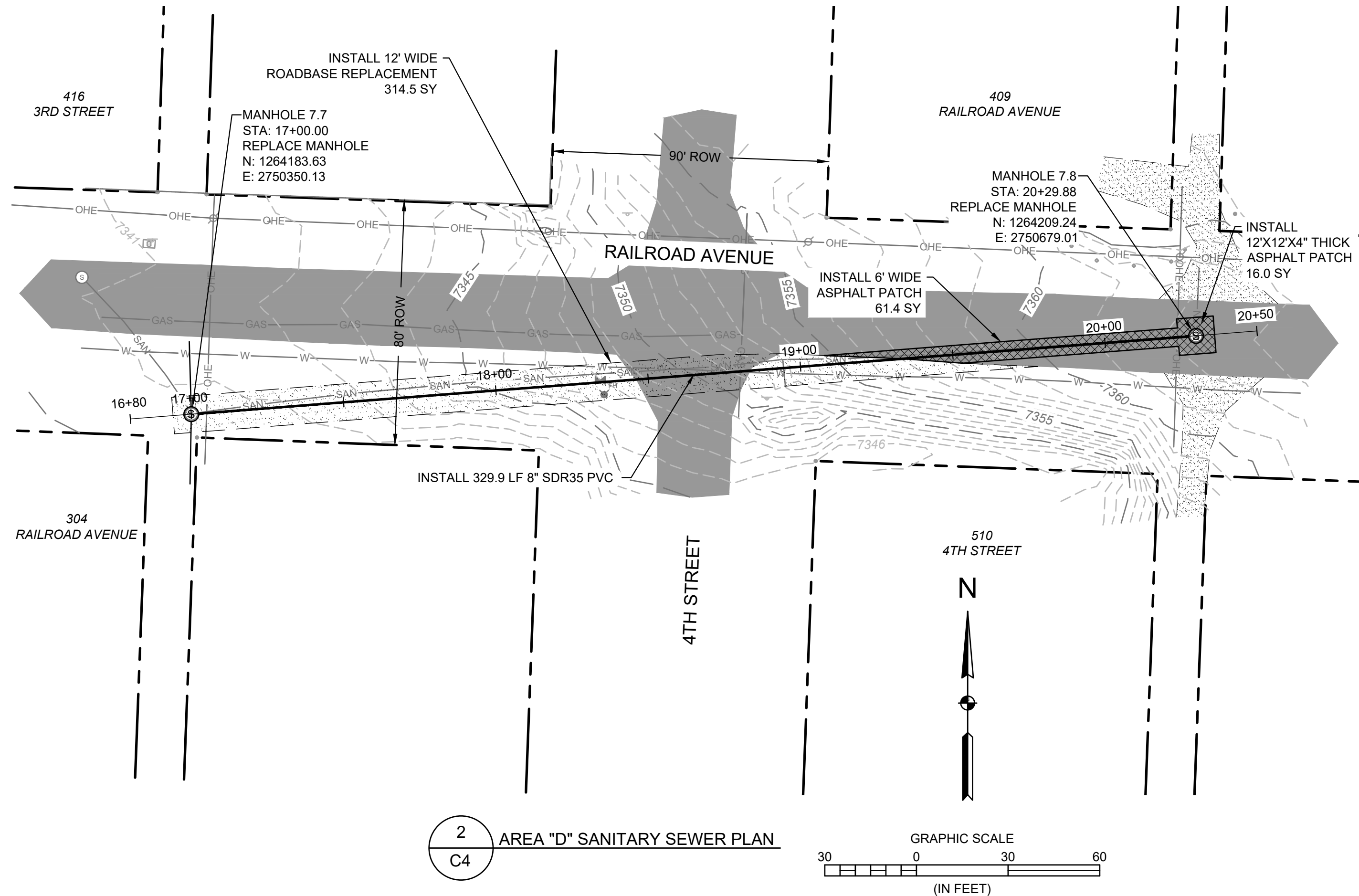


DESIGNED BY JM	CHECKED BY MH
DATE JULY 2025	
JOB NUMBER 0010.0007	
EDITION CONST	
SHEET C3	OF C9

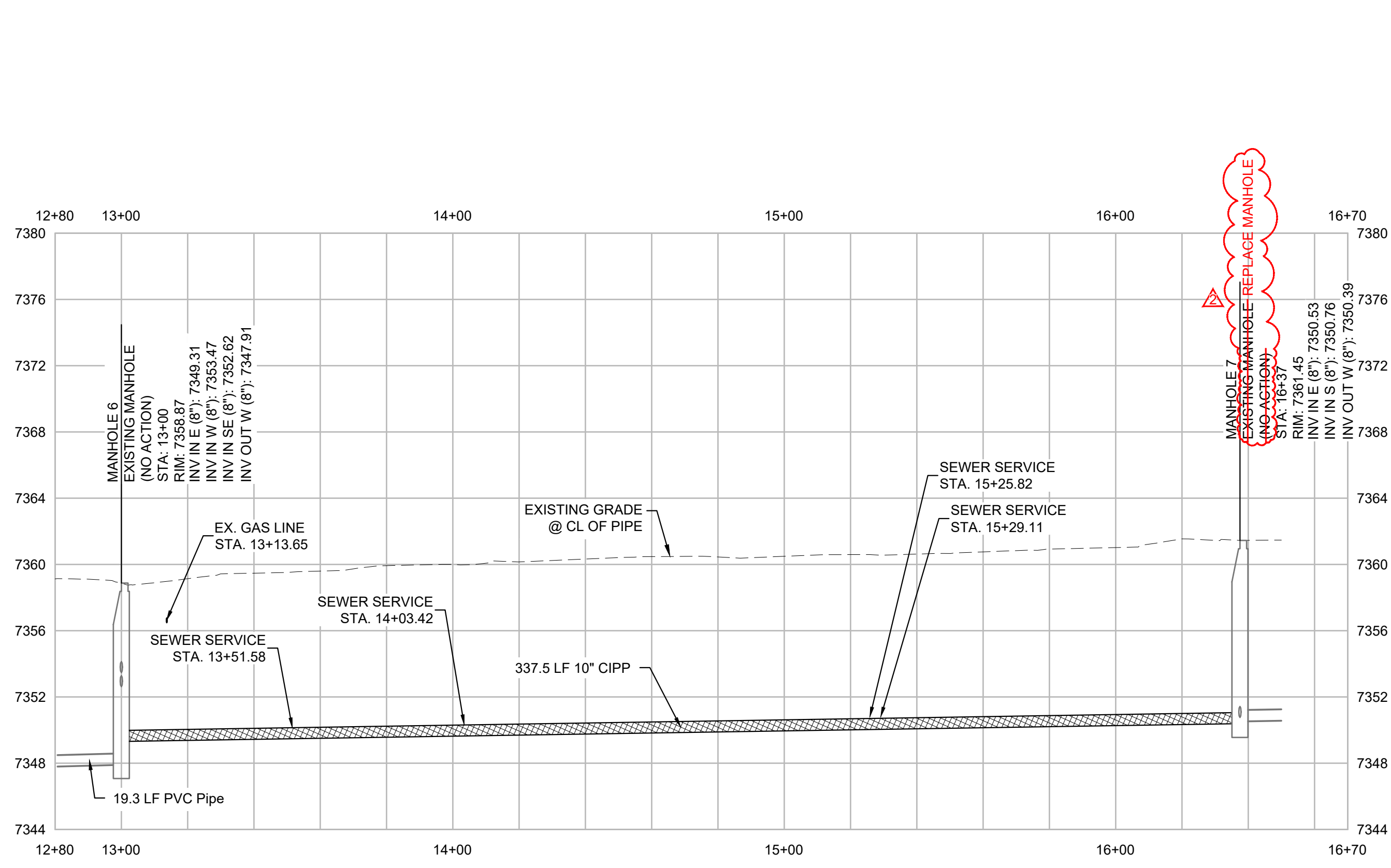
Q:\CO-LAKE\ESHARED\PROJECTS\010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\03-PLAN AND PROFILE.DWG



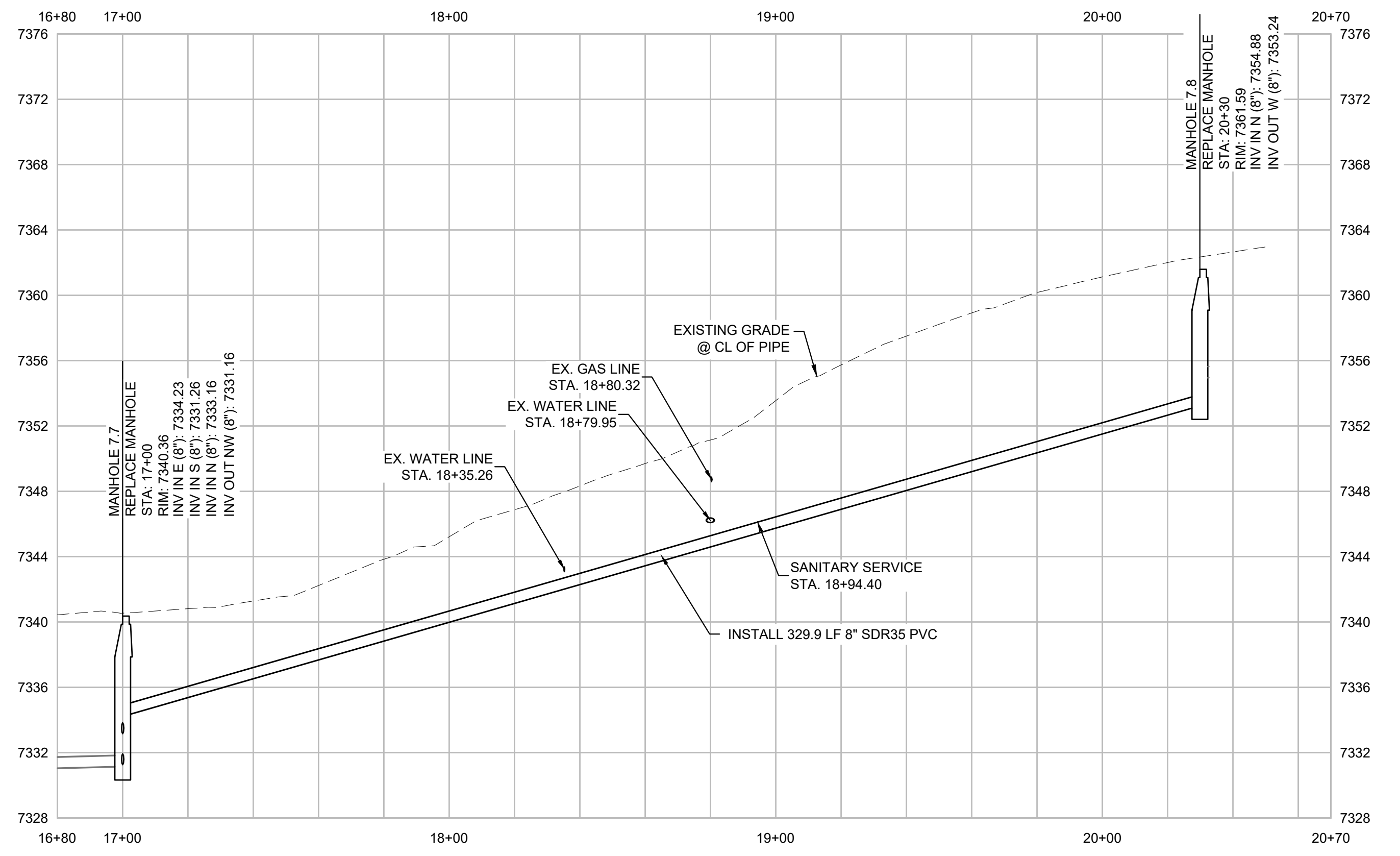
1
C4 AREA "C" SANITARY SEWER PLAN



2
C4 AREA "D" SANITARY SEWER PLAN



3
C4 AREA "C" SANITARY SEWER PROFILE



4
C4 AREA "D" SANITARY SEWER PROFILE

NO.	DATE	DESCRIPTION
1	JAM	
2	25-07-25	REVISED MANHOLE REPLACEMENT

SANITARY SEWER SYSTEM IMPROVEMENTS
AREA C AND D PLAN AND PROFILE
 KREMMLING SANITATION DISTRICT
 200 EAGLE AVENUE
 KREMMLING, COLORADO 80459

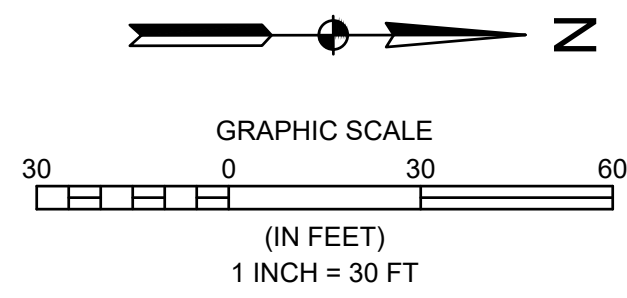


DESIGNED BY JM	CHECKED BY MH
DATE JULY 2025	
JOB NUMBER 0010.0007	
EDITION CONST	
SHEET C4	OF C9

Q:\CO-LAKEEESHARED\PROJECTS\0010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWG\03-PLAN AND PROFILE.DWG



1
C5 AREA "E" SANITARY SEWER PLAN



NO	DESCRIPTION	DATE	BY
1	REVISED MANHOLE NUMBERS	25-07-02	JAM

SANITARY SEWER SYSTEM IMPROVEMENTS
AREA E PLAN
KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLINE, COLORADO 80459

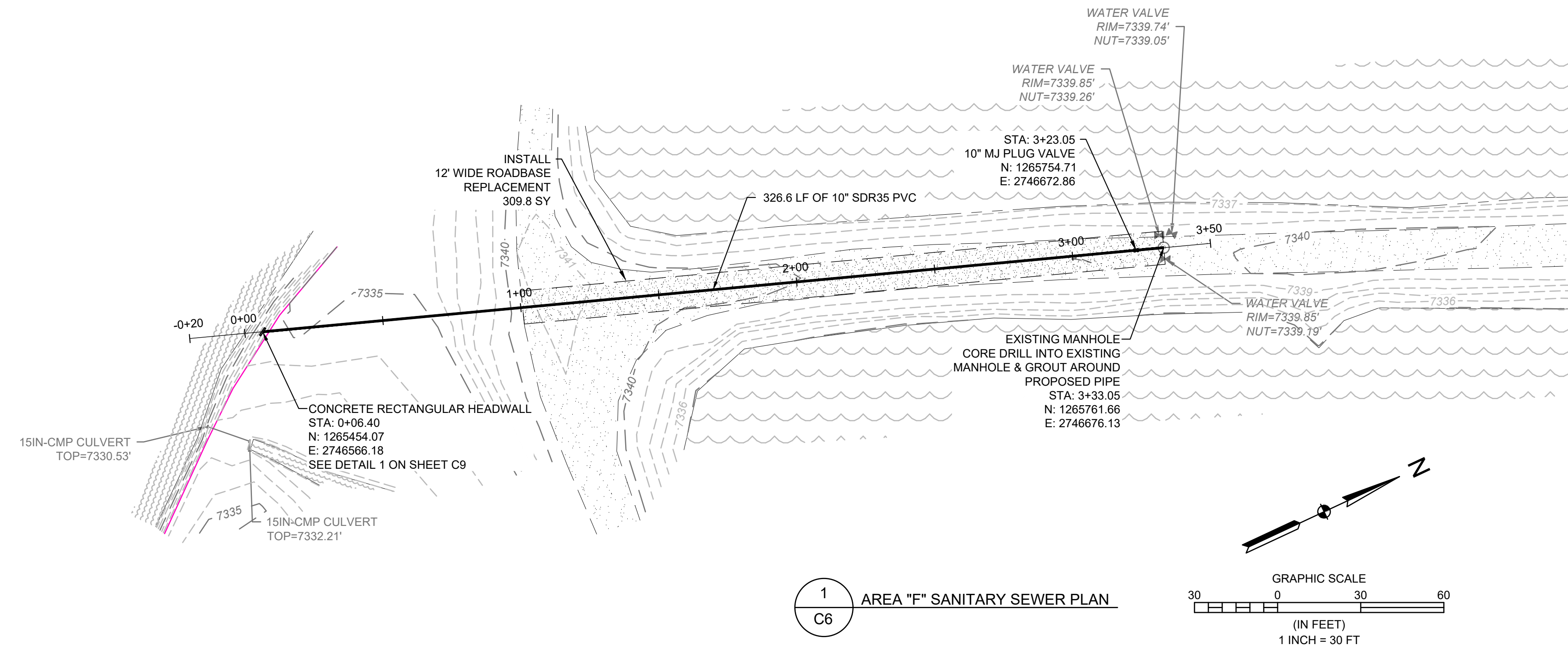
PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

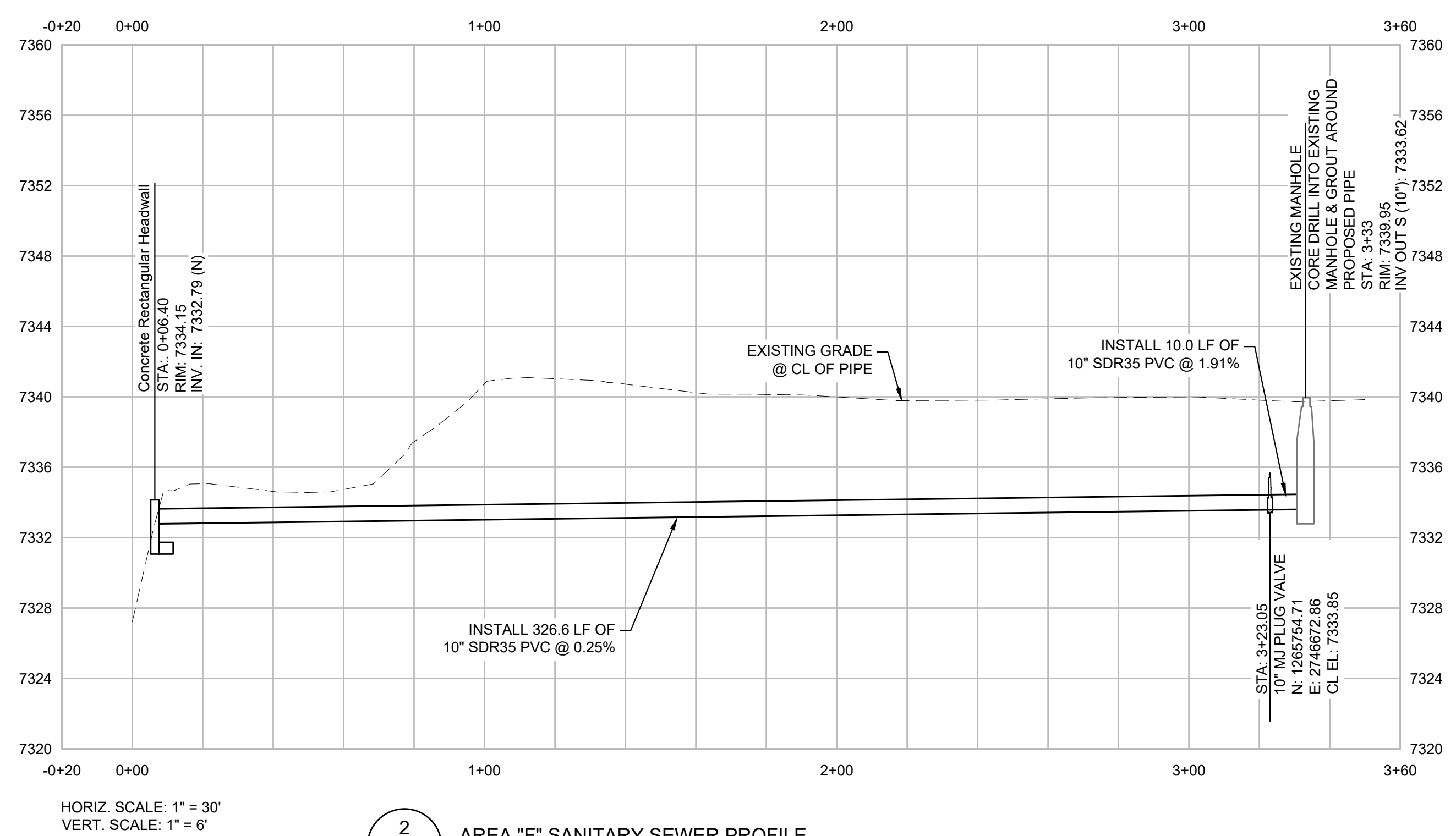
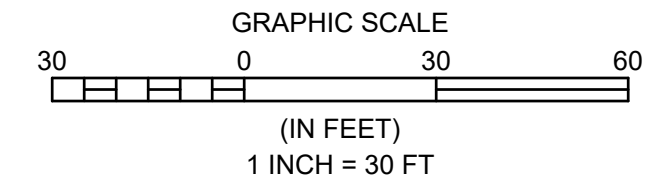
DESIGNED BY: JM CHECKED BY: MH
DATE: JULY 2025
JOB NUMBER: 0010.0007
EDITION: CONST
SHEET: C5 OF C9

ELEMENT ENGINEERING LLC
12687 W. CEDAR DRIVE, SUITE 300
LAKEWOOD, CO 80226
720.749.4165
WWW.ELEMENTENGINEERING.NET

BID ALTERNATIVE A: OUTFALL LINE AT WASTEWATER TREATMENT PLANT



1
C6 AREA "F" SANITARY SEWER PLAN



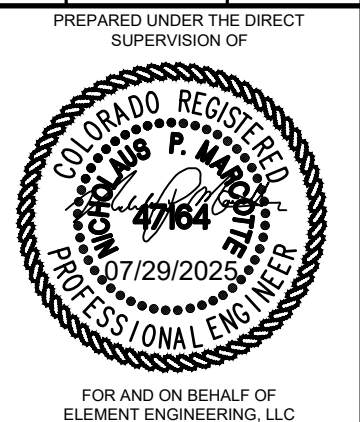
HORIZ. SCALE: 1" = 30'
VERT. SCALE: 1" = 6'

2
C6 AREA "F" SANITARY SEWER PROFILE

Q:\CO-LAKEEESHARED_PROJECTS\0010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\03-PLAN AND PROFILE.DWG

NO.	REVISIONS	DESCRIPTION	DATE	BY

SANITARY SEWER SYSTEM IMPROVEMENTS
AREA F SANITARY SEWER OUTFLOW
KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLING, COLORADO 80459



DESIGNED BY: JM
CHECKED BY: MH
DATE: JULY 2025
JOB NUMBER: 0010.0007
EDITION: CONST
SHEET: C6 OF C9

GENERAL SANITARY SEWER NOTES:

- ALL MATERIALS AND WORKMANSHIP FOR SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST DISTRICT, CDPHE AND ALL OTHER APPLICABLE AGENCIES.
- ALL DIRECT BURY SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR35 OR APPROVED EQUAL.
- SEWER LINES SHALL BE 10 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. FOR SEWER LINES WHICH CROSS LESS THAN 1 1/2 FEET VERTICALLY FROM WATER LINES, THE CLOSEST SANITARY SEWER JOINT SHALL BE A MINIMUM OF 6 FEET FROM THE CROSSING.
- ALL MANHOLES SHALL BE WATER TIGHT PRECAST CONCRETE, A MINIMUM OF 48 INCH IN DIAMETER WITH CONCENTRIC CONE, 24 INCH CAST IRON RING (8" DEPTH) AND COVER, UNLESS OTHERWISE SPECIFIED. CONCRETE ADJUSTMENT RINGS SHALL BE USED FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS AND SET IN MASTIC TO OBTAIN A WATER TIGHT SEAL. CONCRETE ADJUSTMENT RINGS SHALL BE 4" MINIMUM IN DEPTH TO ELIMINATE MULTIPLE JOINTS.
- SEWER RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS.
- THE CONTRACTOR TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL TIE IN POINTS PRIOR TO CONSTRUCTION AND PROVIDE THE DATA TO THE DISTRICT ENGINEER.
- SANITARY SEWER SERVICES SHALL BE SEWER WYES. SEWER SERVICE WYES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW, AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS RECORD" LOCATION OF WYES.
- PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67. SQUEEGEE BEDDING IS PREFERRED. BEDDING DEPTH SHALL BE 6" UNDER AND AROUND THE SIDES OF THE PIPE AND 12" OVER THE PIPE. CONSOLIDATION IN PIPE ZONE SHALL BE BY HAND TAMPING.
- AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE TOWN AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
- THE CONTRACTOR WILL IDENTIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE IN THEIR POSSESSION AT ALL TIMES ONE SIGNED COPY OF PLANS APPROVED BY THE DISTRICT AND THE TOWN ENGINEER. THESE PLANS WILL ALSO INCLUDE ALL ADDENDUMS OR REVISIONS WHICH HAVE BEEN REVIEWED AND APPROVED BY THE DISTRICT AND THE TOWN ENGINEER.
- ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE LATEST DISTRICT STANDARDS PRIOR TO INITIAL ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE. THE MAXIMUM "BELLY" ON LOW SPOTS IN THE NEW SEWER MAIN SHALL NOT EXCEED 3/8 INCHES.

GENERAL SANITARY SEWER NOTES
SHEET 1 OF 3

SCALE: NONE DETAIL: SS-A [1 OF 3]

- PRIOR TO START OF WORK WHERE THE NEW SEWER MAIN IS TO BE INSTALLED INTO EXISTING TOWN SEWER SYSTEMS, THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL INITIAL ACCEPTANCE BY THE CLIENT'S ENGINEER. ITS PURPOSE SHALL BE TO PREVENT MUD, WATER OR OTHER MATERIALS FROM ENTERING THE LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN SO INSTRUCTED BY THE CLIENT'S ENGINEER.
- PRIOR TO THE INITIAL ACCEPTANCE WALK-THROUGH, THE CONTRACTOR/DEVELOPER SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE. AFTER CLEANING THE SEWER MAIN, THE CONTRACTOR WILL DUMP CLEAN WATER DOWN THE SEWER MAIN PRIOR TO THE VIDEO INSPECTION. THE CONTRACTOR WILL PUMP OUT AND DISPOSE OF WATER AT AN APPROVED MANHOLE. CONTRACTOR WILL VIDEO THE SEWERS BEFORE ACCEPTANCE BY THE CLIENT'S ENGINEER. CONTRACTOR SHALL PUMP-OUT AND DISPOSE OF JET-CLEANING WATER OFFSITE IN ACCORDANCE WITH LATEST CDPHE STANDARDS.
- ABANDONING PROCEDURES:
FOR SANITARY SEWER MAINS TO BE ABANDONED - PLACE MECHANICAL PLUG IN THE PIPE AND FILL 5' OF ABANDONED SEWER LINES WITH CONTROLLED LOW SLUMP MATERIAL (CLSM).
FOR SANITARY SEWER MANHOLES TO BE ABANDONED - FILL LOWER 1/3 OF MANHOLE WITH CLSM AND REMAINDER OF MANHOLE WITH SQUEEGEE. IF THE CHIMNEY LENGTH IS LESS THAN 18", REMOVE CONE SECTION AS WELL. IN BOTH CASES, REMOVE THE CAST IRON COVER, RING AND CONCRETE ADJUSTMENT RINGS.
- ALUMINUM FOIL WARNING TAPE SHALL BE USED FOR ALL NEW DIRECT BURY SEWER MAINS. THE TAPE WILL BE INSTALLED 2' BELOW FINISHED GRADE. TAPE MUST BE GREEN IN COLOR.
- FERRICO STRONGBACK RC SERIES PIPE COUPLINGS WILL BE REQUIRED FOR PIPE AND LATERAL SERVICES.
- DURAN RELINER WILL BE REQUIRED FOR INSIDE DROP MANHOLES. STAINLESS STEEL BOLTS WILL BE REQUIRED.
- ALL BARREL SECTIONS OF MANHOLES SHALL BE GROUTED INSIDE AT JOINTS.
- IF SEWAGE BYPASS PUMPING IS NECESSARY, A PUMPING PLAN SHALL BE SUBMITTED AND APPROVED BY THE CLIENT'S ENGINEER, THE CONTRACTOR WILL SUPPLY AND MONITOR THE PUMP DURING THE ENTIRE PUMPING PERIOD. A BACK-UP PUMP WILL BE ONSITE FOR USE IF NECESSARY. BYPASS HOSE SHALL BE PROTECTED FROM TRAFFIC DAMAGE USING APPROVED APPARATUS. FOR ALL SEWAGE BYPASS PUMPING, THE CONTRACTOR WILL HAVE CONTINUOUS ON SITE MONITORING OF PUMPING OPERATIONS.
- SHOULD TRENCH DEWATERING BECOME NECESSARY, THE CONTRACTOR WILL OBTAIN ALL REQUIRED PERMITS AND SUPPLY THE PUMPS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

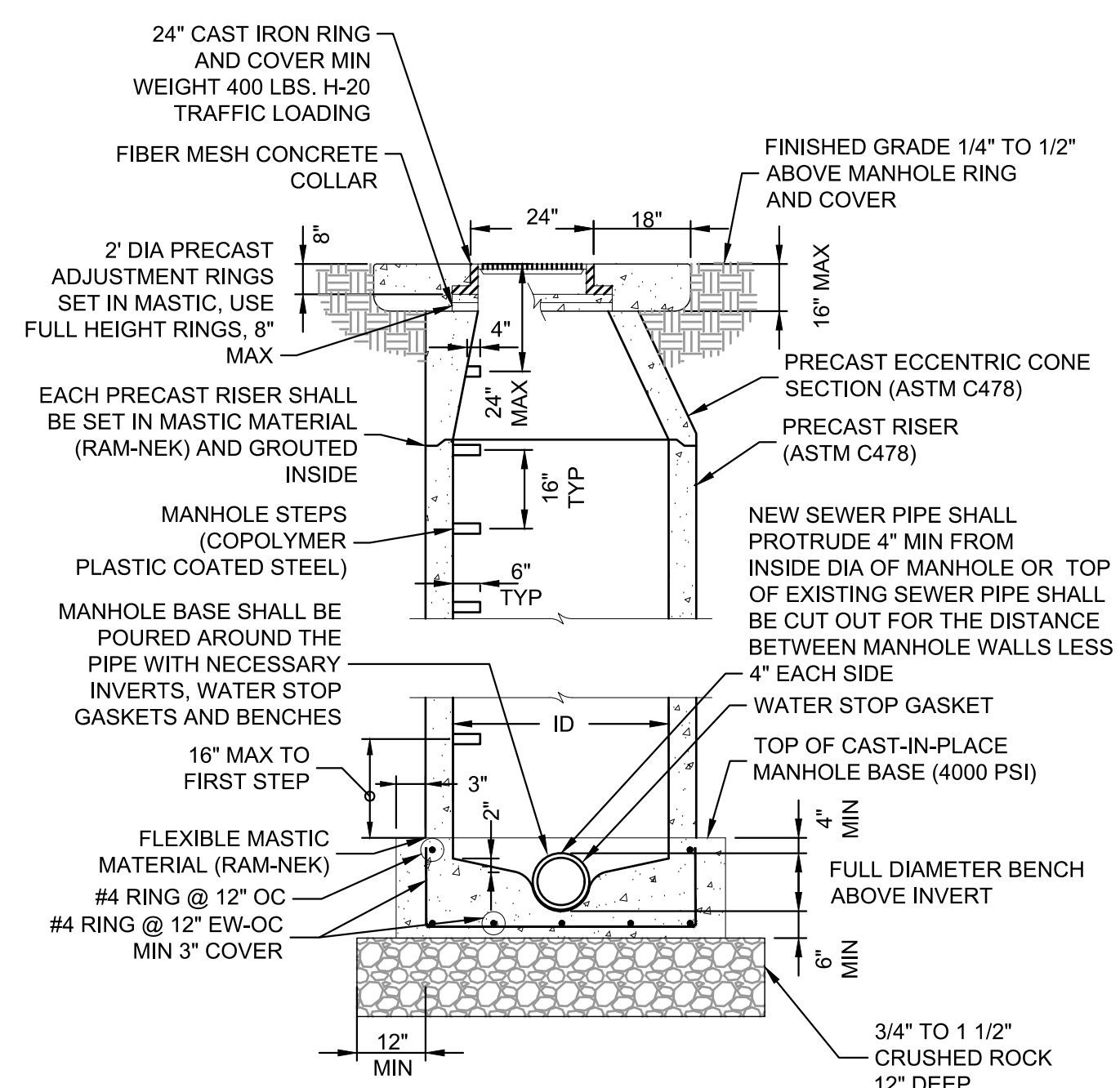
GENERAL SANITARY SEWER NOTES
SHEET 2 OF 3

SCALE: NONE DETAIL: SS-B [2 OF 3]

- THE OPENING OR CHANNEL IN THE MH MUST BE NO LESS THAN THE DIAMETER OF THE PIPE, AND NO LESS THAN THE MH DIAMETER MINUS 4 INCHES IN LENGTH TO ACCOMMODATE EQUIPMENT NECESSARY TO MAINTAIN THE SEWER LINE.
- ALL MANHOLE AND SANITARY SEWER MAIN TESTING SHALL BE WITNESSED BY A REPRESENTATIVE OF THE DISTRICT. A MINIMUM OF 24 HOURS ADVANCED NOTICE IS REQUIRED PRIOR TO TESTING.
- ALL MANHOLE/VAULT EXTERIOR JOINTS SHALL BE WRAPPED IN 12-INCH WIDE CONSEAL CS 212 OR APPROVED EQUIVALENT.
- MANHOLE/VAULT BARREL SECTIONS WILL REQUIRE AN EXTERIOR COATING OF TNEC SERIES 46-465 OR APPROVED EQUIVALENT IF GROUNDWATER IS ENCOUNTERED IN THE TRENCH.
- ALL PRECAST CONCRETE SHALL BE 5,000 PSI MINIMUM STRENGTH.

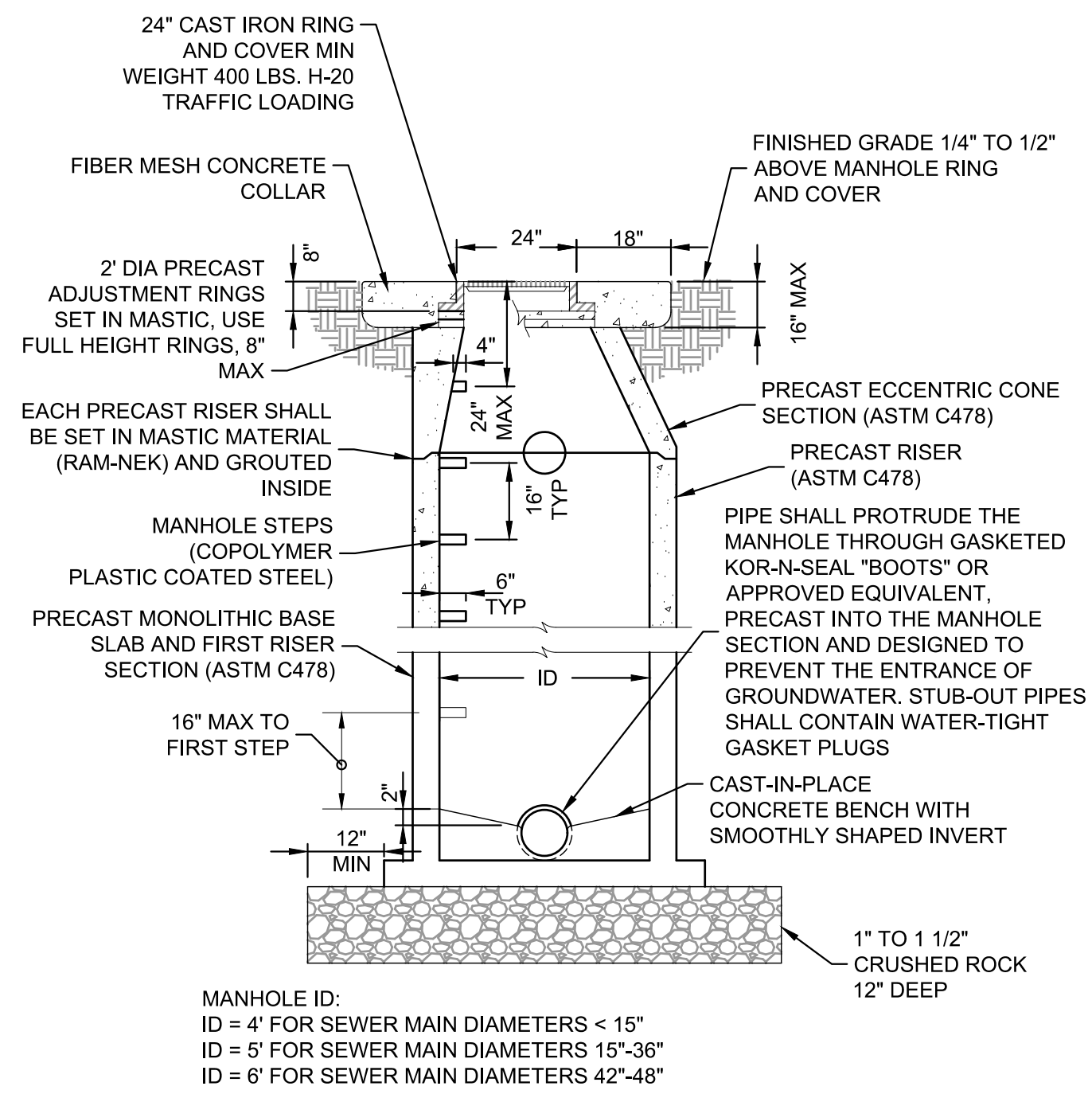
GENERAL SANITARY SEWER NOTES
SHEET 3 OF 3

SCALE: NONE DETAIL: SS-C [3 OF 3]



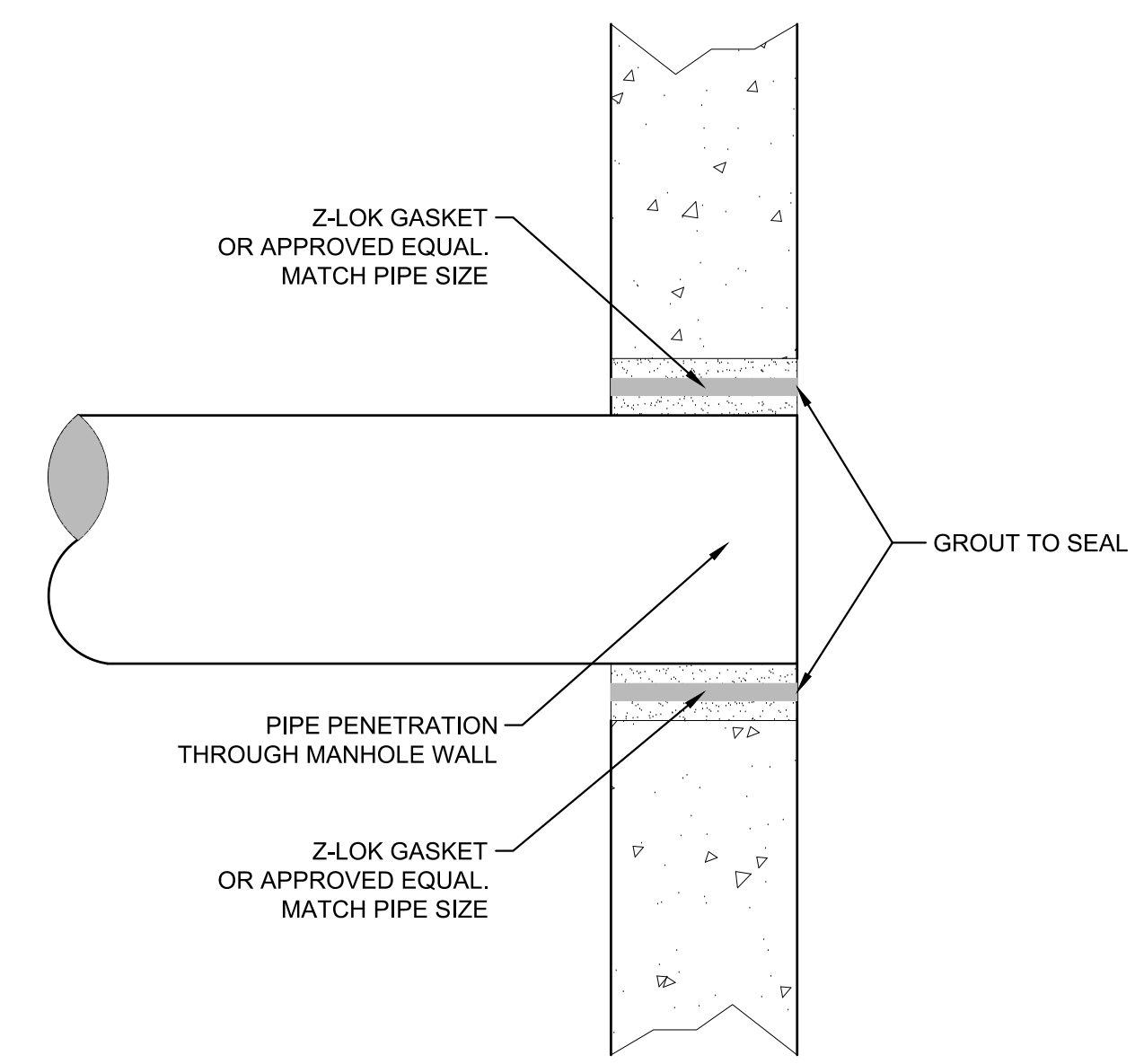
SANITARY SEWER MANHOLE
CAST IN PLACE (CIP)

SCALE: NONE DETAIL: SS-1



SANITARY SEWER MANHOLE
(PRECAST BASE)

SCALE: NONE DETAIL: SS-2



MANHOLE WALL
PENETRATION DETAIL

SCALE: NONE DETAIL: SS-4

- NOTES:
- FOR FIELD CORED PENETRATIONS, LEAK SEAL IS REQUIRED.

Q:\CO-LAKE-EESHARED\PROJECTS\010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\01-COVER.DWG

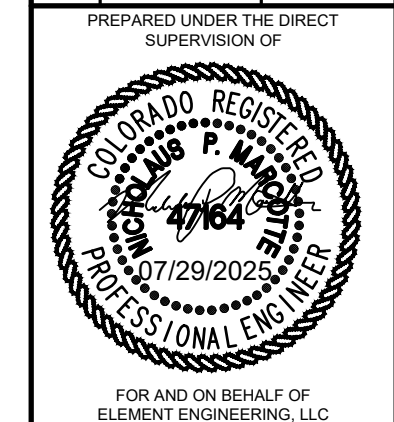


NO	REVISIONS	DESCRIPTION	DATE	BY

SANITARY SEWER SYSTEM IMPROVEMENTS

DETAILS

KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLINE, COLORADO 80459



FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

DESIGNED BY: JM CHECKED BY: MH

DATE: JULY 2025

JOB NUMBER: 0010.0007

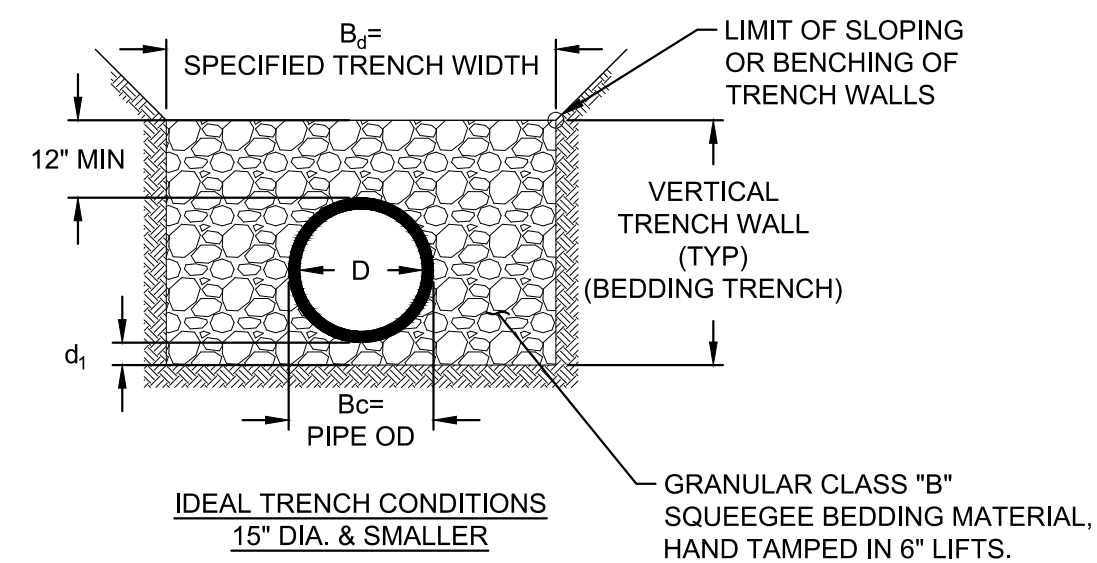
EDITION: CONST

SHEET: C7 OF C9

PIPE SIZE-D	d ₁
18" & SMALLER	4"
21" TO 36"	6"
42" TO 60"	6"
66" TO 96"	8"
104" & LARGER	12"

B₁ = SPECIFIED TRENCH WIDTH AT A POINT 12" ABOVE CROWN (MAX ALLOWANCE)
 B₂ = PIPE OD
 D = PIPE ID
 d₁, d₂, d₃ = DEPTH OF BEDDING MATERIAL BELOW BOTTOM OF PIPE.

NOTES:
 1. BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
 2. BEDDING TRENCH BACKFILL TO BE COMPACTED TO 90% DENSITY, AASHTO T-180 IN OPEN AREAS AND 95% DENSITY AASHTO T-99 IN ALL PUBLIC R.O.W.



CLASS "B" BEDDING MATERIAL SHALL CONSIST OF A WELL GRADED MIXTURE OF MINERAL AGGREGATE. THE AGGREGATE SHALL BE SQUEEGEE WITH A MAXIMUM AMOUNT OF FINES PASSING A NO 200 SCREEN NOT TO EXCEED 5% BY WEIGHT. THE AGGREGATE SHALL COMPLY WITH ASTM C-33 OR ASTM D-448, GRADATION #6 OR #67. IF THE EXCAVATION FOR BEDDING IS BELOW THE WATER TABLE, THE SUB-BEDDING MATERIAL SHALL CONSIST OF 3/4-INCH TO 1-1/2-INCH CRUSHED ROCK.

SANITARY SEWER PIPE BEDDING DETAIL
 SCALE: NONE DETAIL: SS-3

PIPE BEDDING:

(A) INSTALLATION OF BEDDING AND PIPE: AFTER COMPLETION OF THE TRENCH EXCAVATION AND PROPER PREPARATION OF THE FOUNDATION, SIX INCHES (6") OF BEDDING MATERIAL SHALL BE PLACED ON THE TRENCH BOTTOM FOR SUPPORT UNDER THE PIPE. BELL HOLES SHALL BE DUG DEEP ENOUGH TO PROVIDE A MINIMUM OF TWO INCHES (2") OF CLEARANCE BETWEEN THE BELL AND BEDDING MATERIAL. ALL PIPE SHALL BE INSTALLED IN SUCH A MANNER TO INSURE FULL SUPPORT OF THE PIPE BARREL OVER ITS ENTIRE LENGTH. AFTER THE PIPE IS ADJUSTED FOR LINE AND GRADE, AND THE JOINT IS MADE, THE BEDDING MATERIAL SHALL BE CAREFULLY PLACED AND TAMPED UNDER THE HAUNCHES OF THE PIPE AND IN THE PREVIOUSLY DUG BELL HOLES.

TAMPING IS HEREIN DEFINED AS THE ACT OF PLACING APPROVED BEDDING MATERIAL UNDER THE HAUNCHES OF THE PIPE, PAYING PARTICULAR ATTENTION TO VOIDS, BELL HOLES, AND SLING HOLES. THE PURPOSE OF TAMPING IS TO ENSURE UNIFORM SUPPORT FOR THE PIPE.

THE LIMITS OF BEDDING SHALL BE SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE TO TWELVE INCHES (12") ABOVE THE TOP OF THE PIPE. APPROVED BACKFILL MAY THEN BE INSTALLED TO THE GROUNDLINE.

COMPACTION OF BEDDING IS NOT REQUIRED. THE ONLY REQUIREMENT IS SUFFICIENT TAMPING TO ACHIEVE UNIFORM SUPPORT UNDER THE PIPE. SEE DETAIL W-7 OF THE STANDARD DRAWINGS FOR A TYPICAL TRENCH CROSS SECTION.

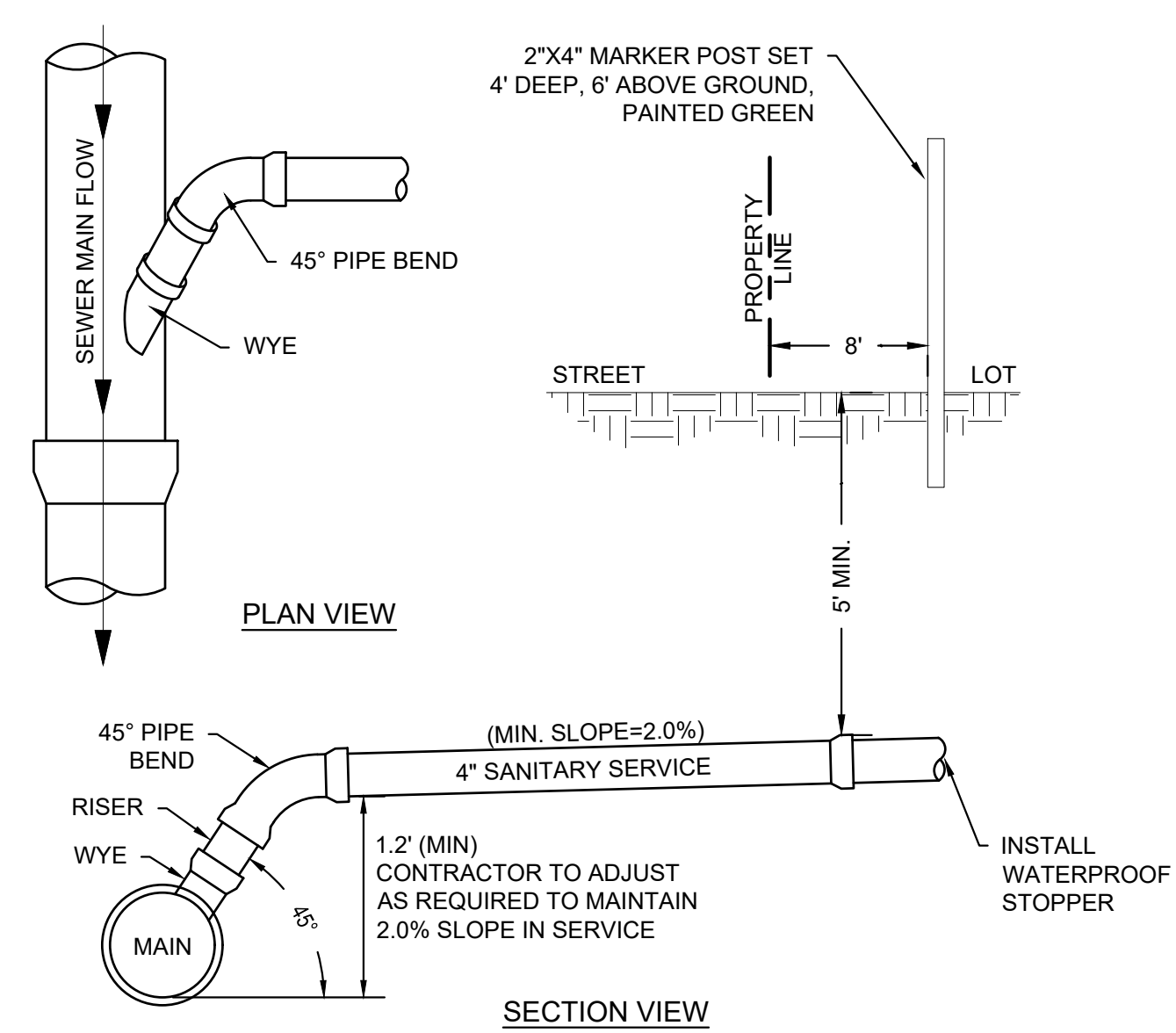
(B) BEDDING MATERIAL: THE BEDDING MATERIAL SHALL BE CLEAN WELL-GRADED SAND OR SQUEEGEE SAND AND SHALL CONFORM TO THE FOLLOWING LIMITS WHEN TESTING BY MEANS OF LABORATORY SIEVES:

WELL-GRADED SAND	
SIEVE SIZE	TOTAL PERCENT PASSING BY WEIGHT
3/8 INCH	100
NO.4	95-100
NO.8	80-100
NO.16	50-85
NO.30	25-60
NO.50	10-30
NO.100	2-10
NO.200	0

SQUEEGEE SAND	
SIEVE SIZE	TOTAL PERCENT PASSING BY WEIGHT
3/8 INCH	100
NO.100	0-5

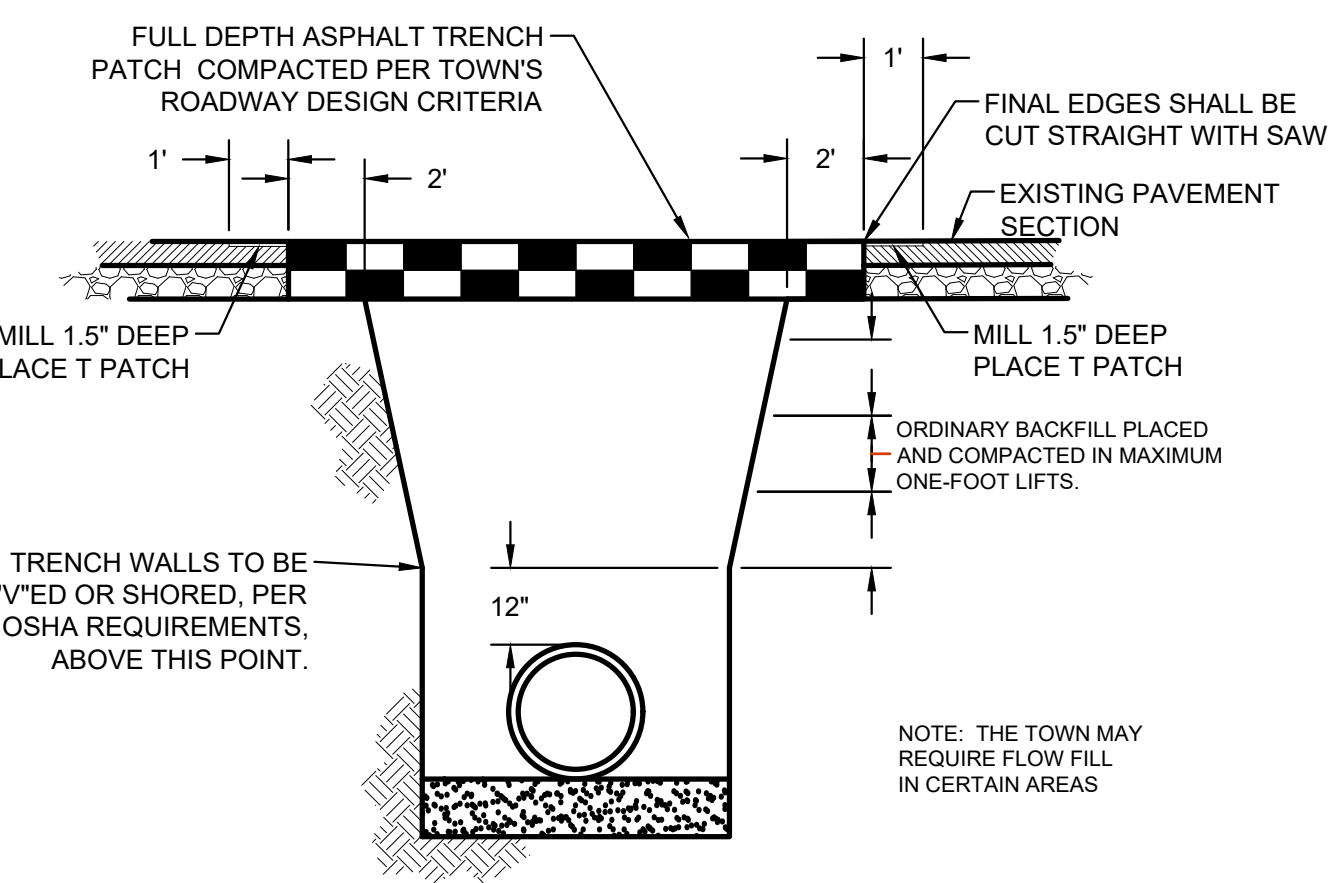
IF APPROVED BY THE OWNER, FINES FORM THE TRENCH WALLS AND SPOILS PILE MAY BE USED TO PROVIDE UNIFORM SUPPORT FOR THE PIPE. NO ROCK OR STONE LARGER THAN THAT ALLOWED BY THE SIEVE ANALYSIS, OR ANY OTHER DETRIMENTAL SUBSTANCE, SHALL BE PLACED CLOSER TO THE PIPE THAN SIX INCHES (6"). APPROVED BEDDING MATERIALS SHALL BE STOCKPILED ON THE JOBSITE TO BE USED IN THE EVENT NATURAL MATERIALS BECOME UNSATISFACTORY. THE OWNER RESERVES THE RIGHT TO REQUIRE THE USE OF THE SPECIFIED BEDDING MATERIAL AT ANY TIME.

PIPE BEDDING
 SCALE: NONE DETAIL: W-8



NOTES:
 1) SANITARY SEWER SERVICE TAPS SHALL BE LOCATED ON THE MAIN AT THE 2 O'CLOCK OR 10 O'CLOCK POSITION.
 2) SANITARY SEWER SERVICE TAPS SHALL NOT BE MADE WITHIN 3 FEET OF A PIPE JOINT OR 5 FEET FROM EDGE OF MANHOLE BASE.
 3) DEPTH OF BURY OF SANITARY SEWER SERVICE LINE AT ROW WILL BE AT THE DISCRETION OF THE TOWN AND TO BE DETERMINED ON A PROJECT BASIS AND DISCUSSED AT THE PRE-DESIGN MEETING.
 4) MINIMUM DISTANCE BETWEEN TWO 45° BENDS IS 3 FEET.
 5) SEWER SERVICE CONNECTIONS SHALL BE MADE USING "WYE" FITTINGS UNLESS OTHERWISE APPROVED BY TOWN ENGINEER.
 6) RISER SEGMENT SHALL BE EXTENDED AS NEEDED TO MAINTAIN THE 4" SANITARY SERVICE AT A SLOPE OF 2%-8%.

SANITARY SEWER WYE BRANCH CONNECTION FOR MAIN DEPTH LESS THAN 12 FEET
 SCALE: NONE DETAIL: SS-8



SOIL CLASSIFICATION (ASTON M145)	MIN. RELATIVE COMPACTION	STANDARD
A-1, A-3, A-2-4, A-2-5	95%	ASTON T180 *
ALL OTHERS	95%	ASTON T99 **

* ASTM D1557
 ** ASTM D698

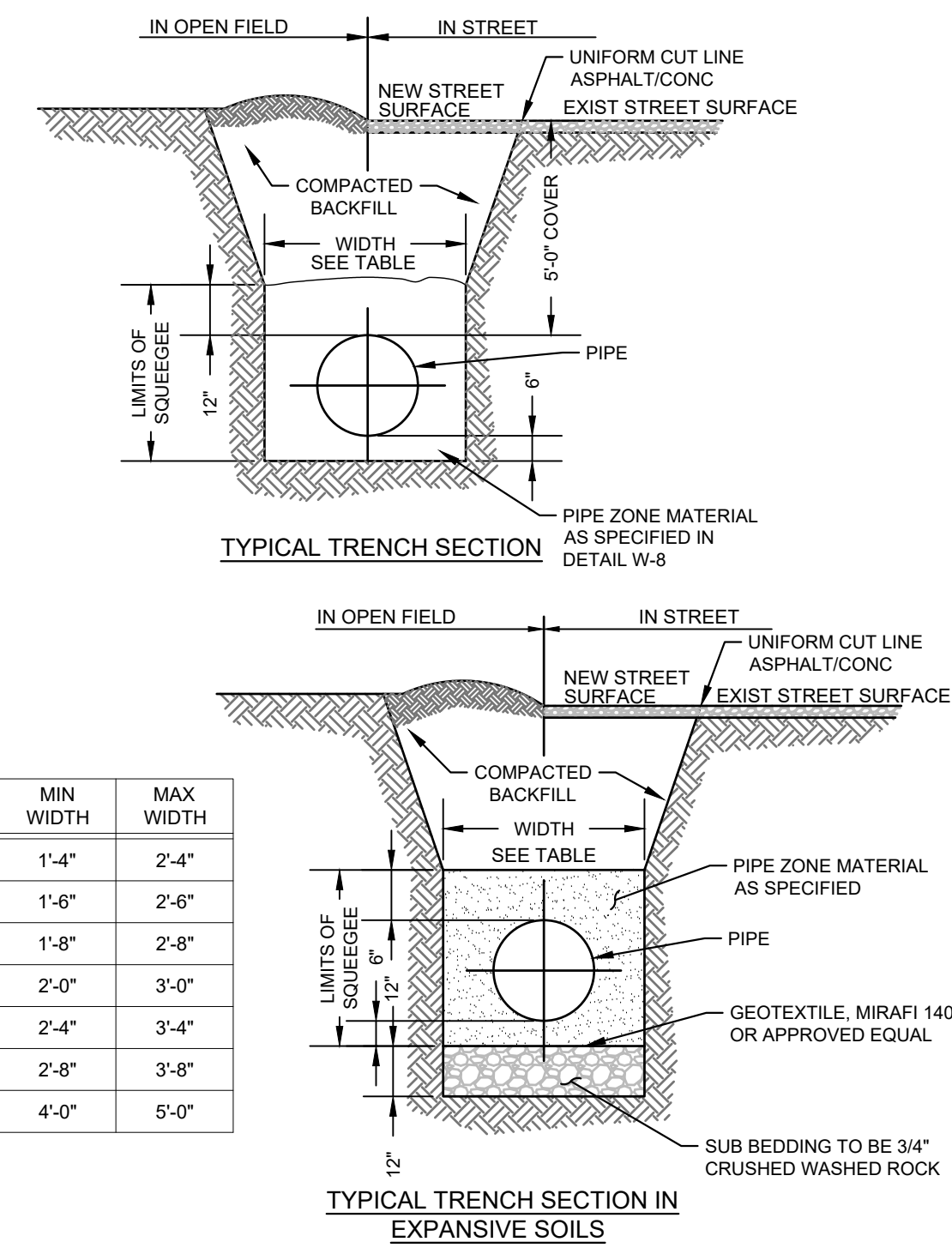
OPEN STREET CUTS WILL HAVE THE FOLLOWING MINIMUM PATCH REQUIREMENTS OR MATCH EXISTING PAVEMENT THICKNESS - WHICHEVER IS GREATER:

STREET CLASSIFICATION	MINIMUM ASPHALT PATCH THICKNESS			
	INDUSTRIAL		ALL OTHER	
	THICKNESS	LIFTS	THICKNESS	LIFTS
ARTERIAL	10 3/4"	4	9"	3
COLLECTOR	9"	3	7 1/2"	3
LOCAL	5"	2	6"	2

MAXIMUM LIFT DEPTH - 3"
 MINIMUM LIFT DEPTH - 1 1/2"

THICKNESS OF EACH LIFT BELOW THE TOP SHALL NOT VARY MORE THAN 3/8" TOP LIFT SHALL BE GRADE SIX HOT BITUMINOUS PAVEMENT

TRENCH PATCH
 SCALE: NONE DETAIL: R-19

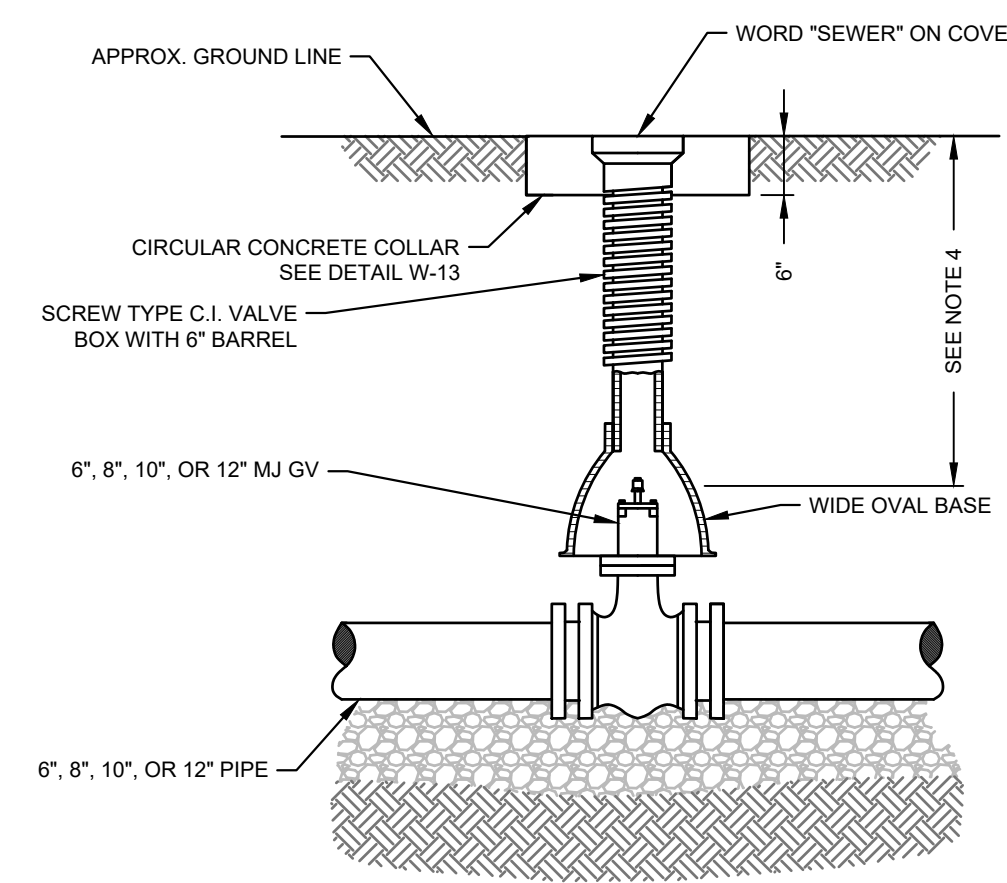


PIPE Ø	MIN WIDTH	MAX WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	4'-0"	5'-0"

NOTES:

- MIN COVER TO BE 5.0' BELOW GRADE.
- TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA.
- PIPE SHALL BE BEDDED WITH SQUEEGEE FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
- COMPACTION SHALL BE PER SPECIFICATION.
- TAPPING SADDLES REQUIRED IN AREAS WHERE THE BEDDING SECTION IS USED.

TYPICAL TRENCH SECTION PIPE PROTECTION
 SCALE: NONE DETAIL: W-7



MATERIALS:

VALVE BOX PARTS SHALL BE MADE FROM GRAY CAST IRON, ASTM A48 CLASS 20A. USE OF AN ALUMINUM ALLOY AS A CASTING MATERIAL IS NOT ACCEPTABLE.

APPROVED PATTERNS:

- TYLER SCREW-TYPE 6-INCH CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 LARGE OVAL BASE.
- CLAY AND BAILEY SCREW-TYPE 6-INCH CAST IRON VALVE BOX ASSEMBLY NO. P-108 WITH NO. 160 LARGE OVAL BASE.

NOTES:

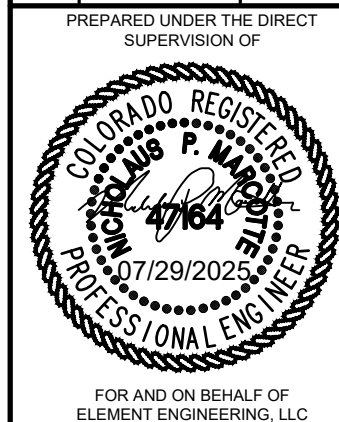
- ALL CI SHALL BE WRAPPED WITH 8 MIL MIN THICKNESS POLYETHYLENE.
- VALVE NUT SHALL BE CENTERED.
- VALVE BOX SHALL BE PLUMB.
- IF GREATER THAN 5'-0" PROVIDE OPERATING NUT EXTENSION WITH CENTERING RING TO 12" BELOW COVER. SEE DETAIL W-13.

VALVE BOX DETAIL
 SCALE: NONE DETAIL: W-12

Q:\CO-LAKE-EESHARED\PROJECTS\010 - KREMILING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\01-COVER.DWG

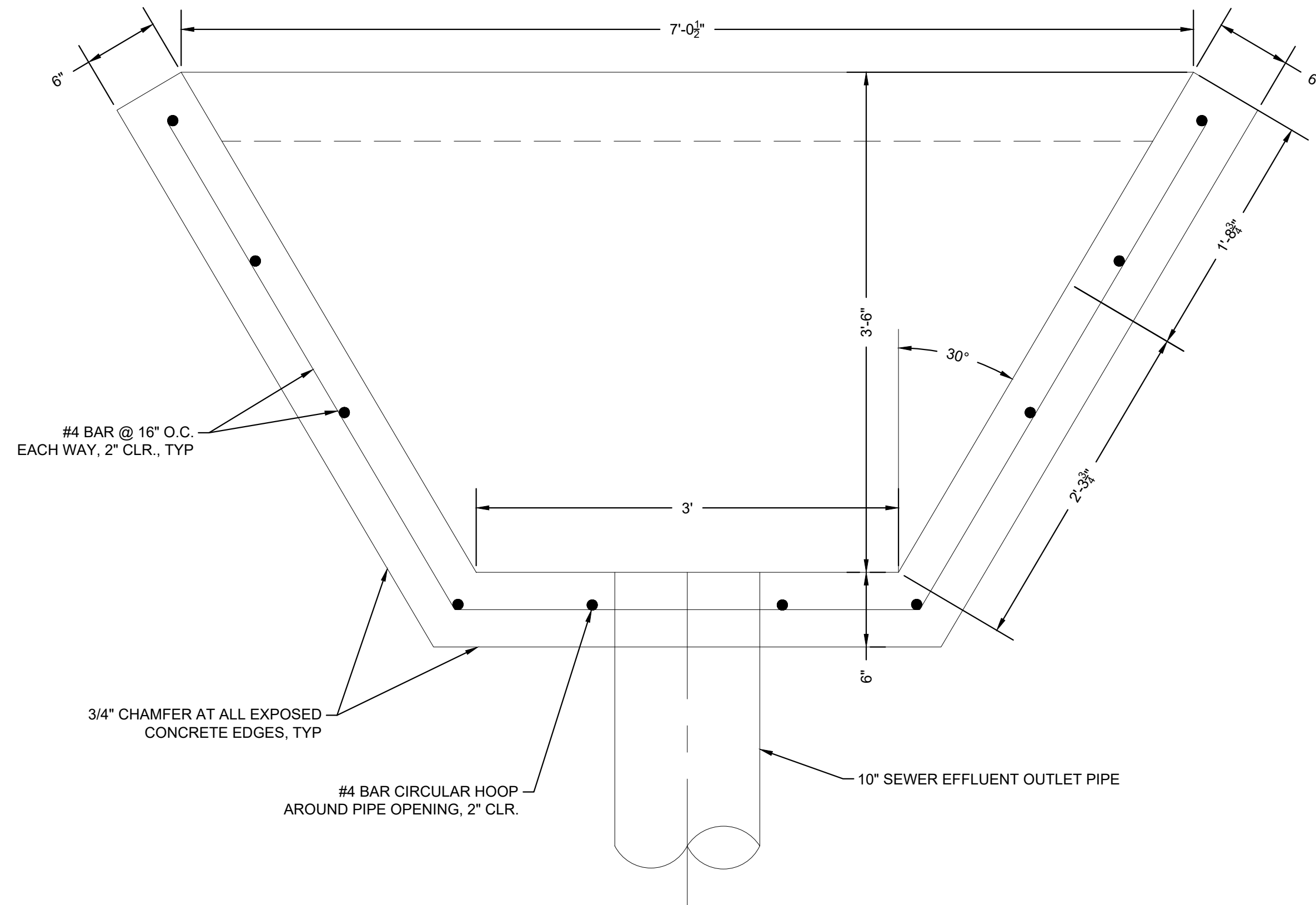
NO.	REVISIONS	DATE	BY
	DESCRIPTION		

SANITARY SEWER SYSTEM IMPROVEMENTS
DETAILS
 KREMILING SANITATION DISTRICT
 200 EAGLE AVENUE
 KREMILING, COLORADO 80459

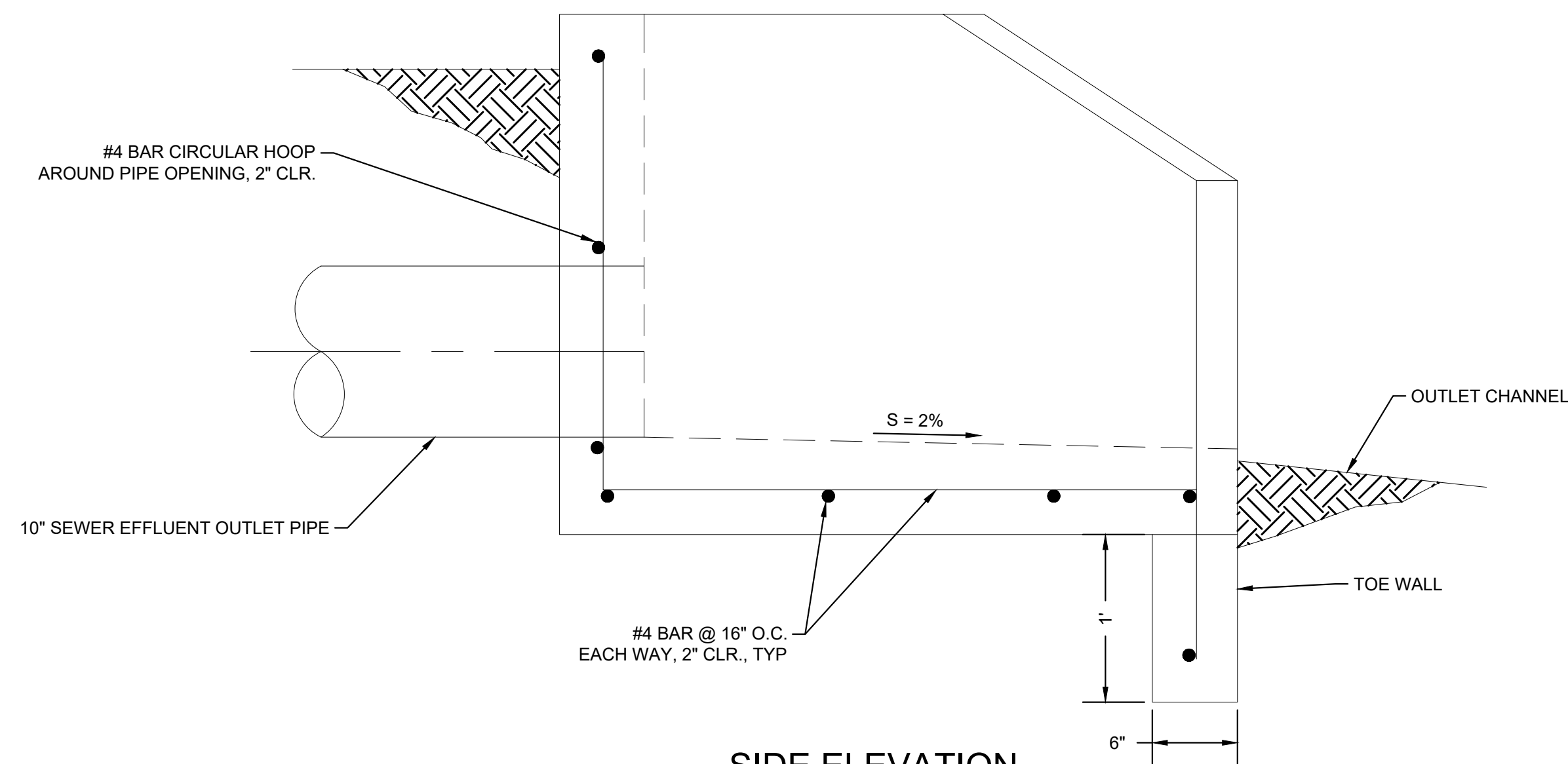


DESIGNED BY: JM
 CHECKED BY: MH
 DATE: JULY 2025
 JOB NUMBER: 0010.0007
 EDITION: CONST
 SHEET: C8 OF C9

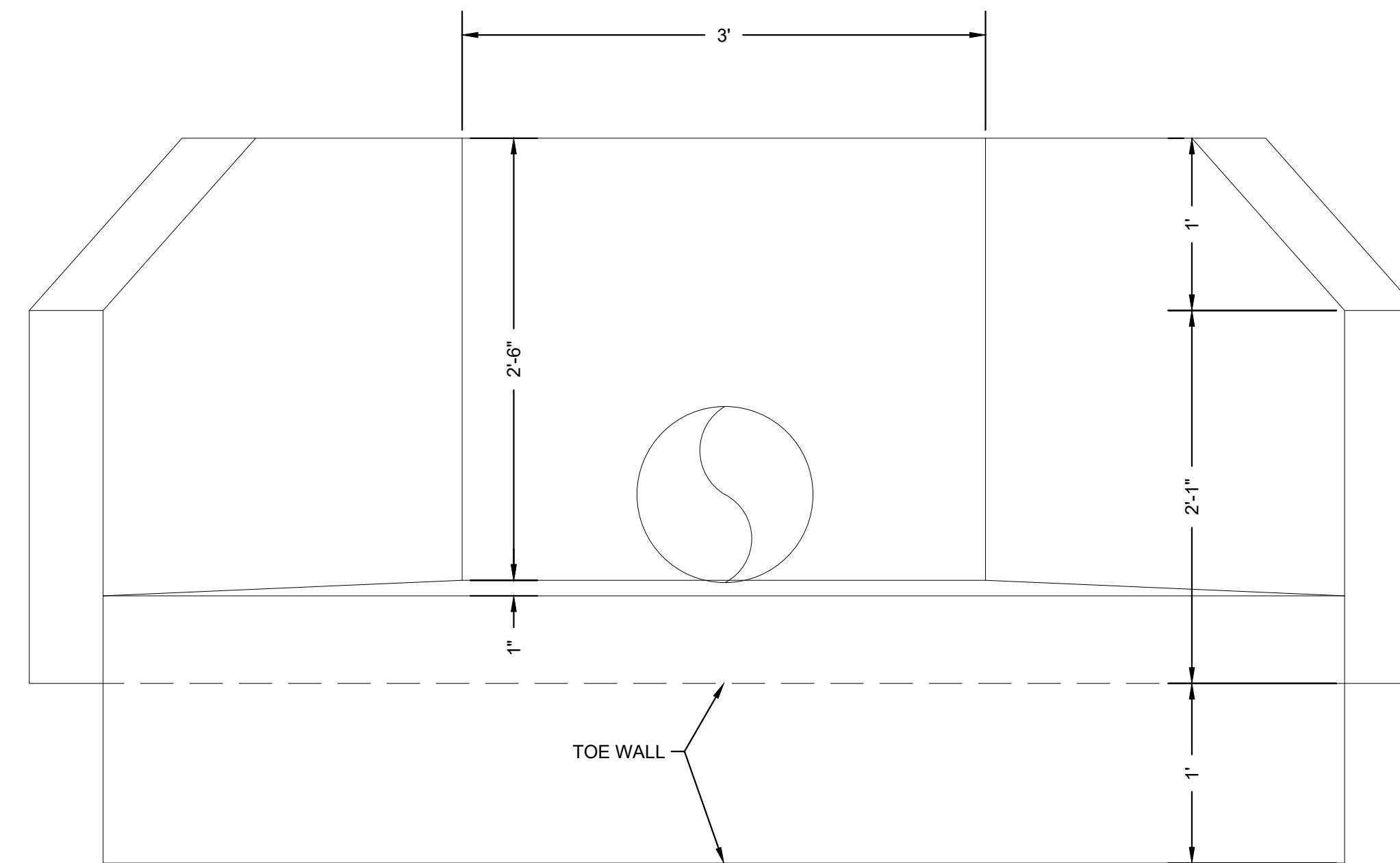
Q:\CO-LAKE-EESHARED_PROJECTS\0010 - KREMMLING SANITATION DISTRICT\0007 - COLLECTION SYSTEM IMPROVEMENTS\CADD\DWGS\01-COVER.DWG



PLAN VIEW



SIDE ELEVATION

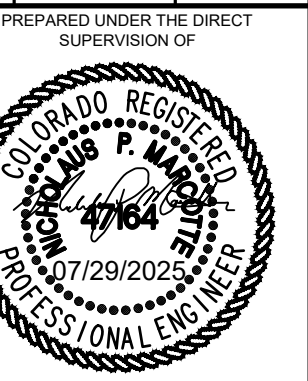


FRONT ELEVATION

1
C9 CONCRETE HEADWALL DETAILS
NTS

NO	REVISIONS DESCRIPTION	DATE	BY

SANITARY SEWER SYSTEM IMPROVEMENTS
CONCRETE HEADWALL DETAILS
KREMMLING SANITATION DISTRICT
200 EAGLE AVENUE
KREMMLINE, COLORADO 80459



FOR AND ON BEHALF OF
ELEMENT ENGINEERING, LLC

DESIGNED BY JM	CHECKED BY MH
DATE JULY 2025	
JOB NUMBER 0010.0007	
EDITION CONST	
SHEET C9	OF C9