

Project Information Summary

Project Name: Railroad Lift Station

Last Update: 3-2-26

Project Number: PZ-26-00032

General Location: Located in the SW corner of the Avenue South development, just north of the railroad tracks. North of CR 20E. West of Rock Mt. Ave. extension.

Project Description:

The new Railroad Lift Station will collect sewage from the planned gravity collection system network for the Centerra South and Schmer Farm developments and convey those flows via a dual 10" force main to an existing manhole located at the northeast side of Loveland Sports Park. From there, sewer flows are then conveyed to the City's East side Lift Station and on to the Water Reclamation Facility.

Existing Zoning: PUD-Planned Unit Development

Acreage of Site: approx. 1 acre

Existing Use: vacant land

Application Type:

Site Development Plan

Choose Type

Choose Type

☐ Neighborhood Notice and Comment Period Required

***Public Review Required:** ☒ None

☐ Variance ☐ Neighborhood Meeting ☐ Planning Commission Hearing ☐ City Council Hearing

** Contact the City Planner for specific hearing dates, times and locations if public review is required*

Use Type

☒ Use by Right (R)

☐ Limited Use (L)

☐ Adaptable Use (A)

☐ Conditional Use (C)

Contact Information:

Applicant

Name: Brian Gandy

City Planner

Name: Jason Bradford

Phone: 970-962-2522

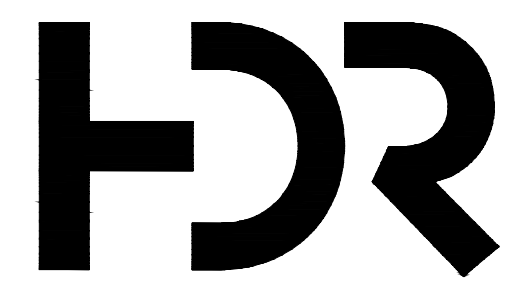
Email: Jason.Bradford@cityofloveland.org

Attachment (s): SDP

The above information was current at the time of initial project submittal and is subject to change



SITE DEVELOPMENT PLAN / CIVIL CONSTRUCTION PLANS
LOT 1, BLOCK 2, CENTERRA SOUTH FIRST SUBDIVISION



RAILROAD LIFT STATION

LOVELAND WATER AND POWER

HDR Project No. 10368614
City of Loveland Project No. W2602H
Loveland, Colorado
January 2026

NOT FOR
CONSTRUCTION
OR
RECORDING

BENCHMARKS: CITY OF LOVELAND.
VERTICAL DATUM: BENCHMARK: LOVELAND BENCHMARK 95-06, NGVD29 ELEVATION=4967.15
HORIZONTAL DATUM: COLORADO STATE PLANE COORDINATES NAD 83(2011) DATUM.
NOTE:
A. THIS DRAWING IS AT MODIFIED STATE PLANE. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.99973537 (1.00026470) ABOUT THE ORIGIN 0,0.

Property Owner:
The undersigned agree that the real property described in the application and shown on the Site Development Plan filed herewith, shall be subject to the requirements of Title 18 of the Municipal Code of the City of Loveland, Colorado, and any other ordinances of the City of Loveland. The undersigned accepts the conditions and restrictions set forth on said Plan and in the conditions of approval by the City of Loveland. The undersigned also understands that if the next required approval or permit has not been applied for to establish the use or commence the construction that is authorized by the approval of the Site Development Plan or if the use does not require a building permit and is not established, ongoing, and in operation within three years of the date of approval, or other completions date or dates established in a development agreement approved by the City, the Site Development Plan shall expire and shall be deemed null and void.

(Owner's Signature)

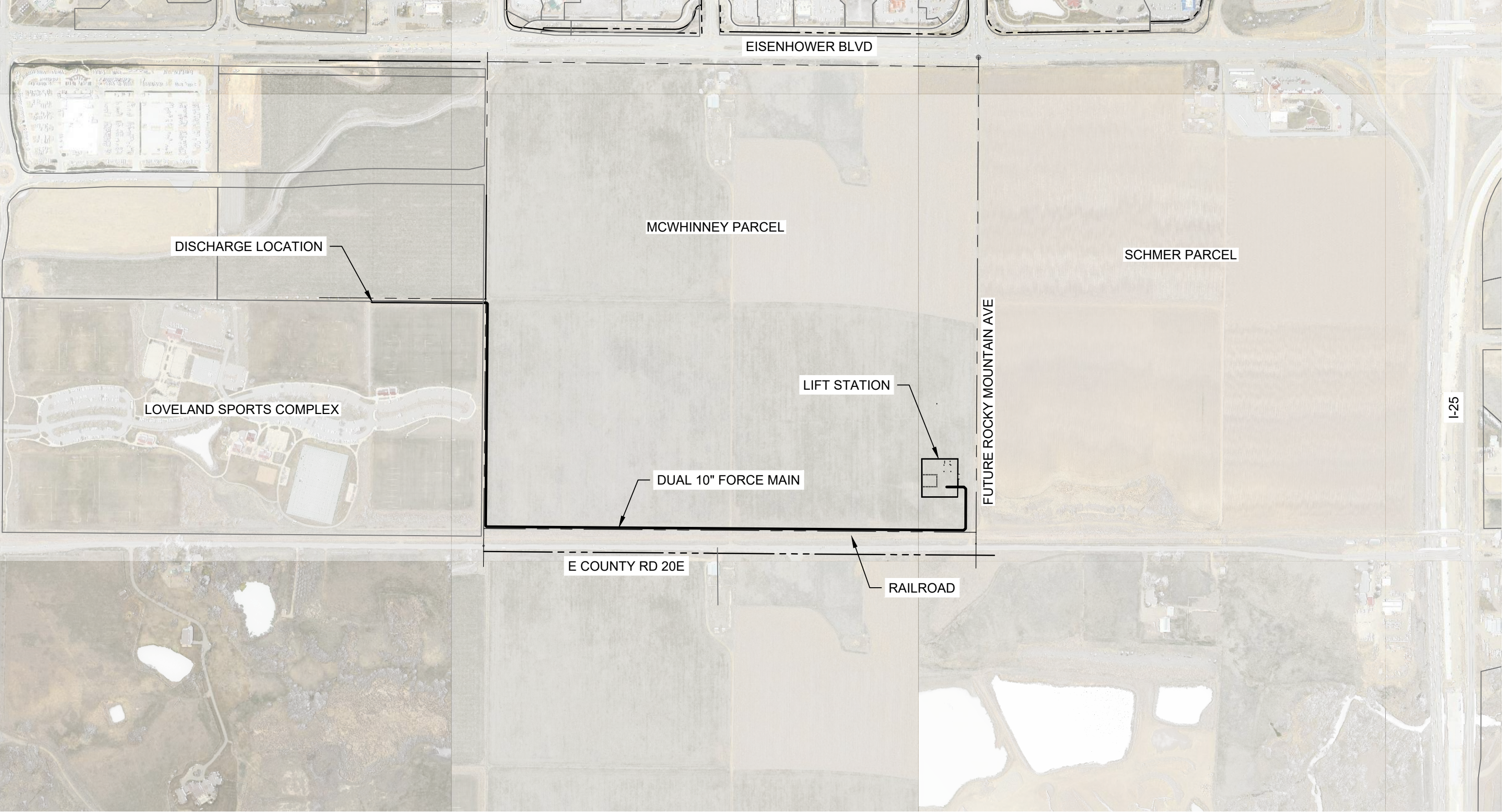
(Title)

STATE OF COLORADO)
) ss.
COUNTY OF LARIMER)

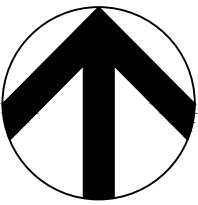
The foregoing agreement was acknowledged before me this _____ day of _____, 2_____,
by _____.

Witness my hand and official seal.
My commission expires: _____.

Notary Public



VICINITY MAP
1" = 500'



ADDENDUM #1 ISSUED 1/28/2026

QUALIFIED STORMWATER MANAGER:
MOLTZ CONSTRUCTION
SAMANTHA LEE
975 MERCHANT COURT
WINDSOR, CO 80550
(970) 567-1074

SITE DATA TABLE	
Zoning	Zone district of the property PUD
Site Acreage	List the gross and net acreage of the property 1.001 Acres; 43,605 SF
Land Use	List the proposed uses of each structure on the property Municipal Sewage Lift Station and Associated Uses
Square Footage	1. Total: Provide the total square footage of each building on the site 879 SF 2. Floors: Provide the square footage for each floor in the structure Floor 1 – 879 SF 3. Use: If there is more than one use in a building, provide the square footage devoted to each use. Electrical Room – 313 SF Mechanical Room – 85 SF Chemical Room – 205 SF Odor Control Room – 92 SF
Building Occupancy	Provide the occupancy classification for each building per Building Code. Group F-1
Type of Construction	Provide the construction type for each building per Building Code. II-B
Parking	Provide the number of proposed parking spaces, listing individual numbers for ADA accessible, compact, and standard parking spaces, along with a total number of spaces. No designated parking stalls, however, the site is constructed with recycled asphalt and parking can occur anywhere on the site that is not bound by permanent structures or safety bollards.
Open Space	Provide the square footage and percentage of open space on the site 0 SF, 0%
Utilities	Indicate utility providers for water, wastewater, and power City of Loveland – Water, Wastewater, Power
Overlay Zones	Provide an indication if the property is located within the airport, floodplain, enhanced corridor, or north Cleveland overlay zones None.

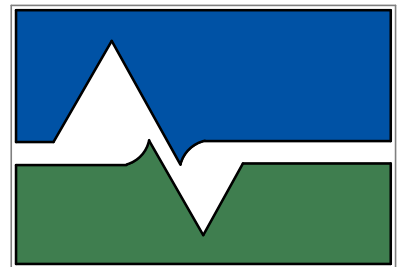
City Approval:
Approved this _____ day of _____, 2_____, by
the Current Planning Manager of the City of Loveland, Colorado.

Current Planning Manager

1		2		3		4		5		6		7		8	
A/C	AIR CONDITIONING	CLG	CEILING	FA	FOUL AIR	ID	INVERT DIAMETER, INTERIOR DIMENSION	N	NORTH, NEUTRAL	R&R	REMOVE AND REPLACE	TOB	TOP OF BOLT, TOP OF BANK,		
A/E	ARCHITECT/ENGINEER	CL	CENTERLINE, CLASS, CLOSE	F TO F	FACE TO FACE	IE	INVERT ELEVATION, FOR EXAMPLE	NA	NOT APPLICABLE	R&S	REMOVE AND SALVAGE		TOP OF BEAM, TOP OF BERM		
A	AMPERE	CLKG	CAULKING	F&B	FACE AND BYPASS	IF	INSIDE FACE	NAT	NATURAL, NATIONAL	R	RADIUS, REGISTER, RISER	TOC	TOP OF CURB, TOP OF CONCRETE		
AB	ANCHOR BOLT	CLR	CLEAR	FAB	FABRICATE	IH	INTAKE HOOD	NC	NORMALLY CLOSED	RA	RETURN AIR	TOD	TOP OF DUCT		
ABAN	ABANDON	CMH	COMMUNICATION MANHOLE	FB	FLOOR BEAM	IMP	IMPACT	NEG	NEGATIVE	RB	RESILIENT BASE, ROCK BERM	TOF	TOP OF FOOTING		
ABC	AGGREGATE BASE COURSE	CMP	CORRUGATED METAL PIPE	FBD	FIBERBOARD	IN	INCH	NF	NEAR FACE, NON-FUSED	RCPT	RECEPTACLE	TOG	TOP OF GRATING		
ABT	ABOUT	CMU	CONCRETE MASONRY UNIT	FBG	FIBERGLASS	INC	INCLUDE, INCANDESCENT	NIC	NOT IN CONTRACT	RCP	REINFORCED CONCRETE PIPE	TOL	TOLERANCE, TOP OF LEDGER		
AC	ALTERNATING CURRENT	COL	COLUMN	FBM	BOARD FOOT MEASURE	INF	INFLUENT	NO	NORMALLY OPEN, NUMBER	RD	ROOF DRAIN	TOM	TOP OF MASONRY		
ACK	ACKNOWLEDGE	COM	COMMON	FBO	FURNISHED BY OWNER	INSTR	INSTRUMENTATION	NOM	NOMINAL	REC	RECESS	TOP	TOP OF PLATE		
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT	COMB	COMBINATION	FC	FLUSHING CONNECTION	INSUL	INSULATION	NPS	NOMINAL PIPE SIZE	RECD	RECEIVED	TOPO	TOPOGRAPHY		
ACST	ACOUSTIC	COMM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	INT	INTERIOR, INTERSECTION	NPT	NATIONAL PIPE THREAD	RECT	RECTANGULAR	TOS	TOP OF SLAB, TOP OF STEEL,		
AD	ADDITIONAL, AREA DRAIN	COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE	FDC	FLOOR DRAIN	INTR	INTERMEDIATE, INTERIOR	NS	NEAR SIDE	RED	REDUCER		TOE OF SLOPE		
ADDL	ADDITIONAL			FDR	FLEXIBLE DUCT CONNECTION	INV	INVERT	NTS	NOT TO SCALE	REF	REFERENCE	TOW	TOP OF WALL		
ADH	ADHESIVE	CON	CONCENTRIC	FDTN	FOUNDATION	IPS	IRON PIPE SIZE	NWL	NORMAL WATER LEVEL	REINF	REINFORCING	TP	TOILET PARTITION, TELEPHONE POLE,		
ADJ	ADJUSTABLE, ADJACENT	CONC	CONCRETE	FE	FLANGED END	IPT	INTERNAL PIPE THREAD			REM	REMOVE		TOE PLATE, TRAP PRIMER		
AF	AMP FRAME, AMP FUSE	CONN	CONNECTION	FEC	FIRE EXTINGUISHER CABINET	IR	INSIDE RADIUS, IRON ROD	Q TO O	OUT TO OUT	REQD	REQUIRED	TPD	TOILET PAPER DISPENSER		
AFF	ABOVE FINISH FLOOR	CONST	CONSTRUCTION	FES	FLARED END SECTION	IRR	IRRIGATION	QA	OUTSIDE AIR, OVERALL	RESIL	RESILIENT	TPG	TOPPING, THROUGH PLATE GIRDER		
AFG	ABOVE FINISH GRADE	CONT	CONTINUOUS	FEXT	FIRE EXTINGUISHER	ISO	ISOMETRIC	OC	ON CENTER	RET	RETAINING, RETURN	TR	TRANSOM		
AGGR	AGGREGATE	COORD	COORDINATE	FF	FAR FACE, FACTORY FINISH, FLAT FACE			OCPD	OVER CURRENT PROTECTION DEVICE	REV	REVISION, REVERSE	TRANS	TRANSITION		
AI	AREA INLET, ANALOG INPUT	CORR	CORROSIVE, CORRUGATED	FG	FINISHED GRADE	JB	JUNCTION BOX	OD	OUTSIDE DIAMETER	RF	RESILIENT FLOORING	TRD	TRENCH DRAIN		
AIC	AMPS INTERRUPTING CAPACITY	CP	CHECKER PLATE, CONTROL POINT	FH	FIRE HYDRANT	JCT	JUNCTION	OED	OPEN END DUCT	RFG	ROOFING	TYP	TYPICAL		
ALIG	ALIGNMENT	CPLG	COUPLING	FIG	FIGURE	JF	JOINT FILLER	OF	OUTSIDE FACE, OFFICE FURNISHING	RFL	REFLECTED, REFLECTOR				
ALT	ALTERNATE, ALTITUDE	FIN	FINISH	FJT	FINISH JOINT	JST	JOIST	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	RGH	ROUGH	U	URINAL		
ALUM	ALUMINUM	CSC	COMPRESSION SLEEVE COUPLING	FL	FLOW, FLOW LINE	JT	JOINT			RGS	RIGID GALVANIZED STEEL	UG	UNDERGROUND		
AM	ACOUSTICAL MATERIAL	CSK	COUNTERSINK	FLX	FLEXIBLE	K	KIP	OFOI	OWNER FURNISHED OWNER INSTALLED	RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	ULT	ULTIMATE		
AMB	AMBIENT	CSS	CLINIC SERVICE SINK	FLG	FLANGE	KB	KNEE BRACE	OG	ORIGINAL GROUND			UMP	UTILITY MONITORING POINT		
ANC	ANCHOR	CT	CERAMIC TILE	FLG	FLANGE	KCMIL	THOUSAND CIRCULAR MILS	OH	OVERHEAD	RL	REQUIRED LAP	UNFN	UNFINISHED		
AO	ANALOG OUTPUT	CTJ	CONTRACTION JOINT	FLOR	FLUORESCENT	KD	KNOCK DOWN	OPNG	OPENING	RLFA	RELIEF AIR	UNO	UNLESS NOTED OTHERWISE		
AP	ACCESS PANEL	CTR	CENTER	FLR	FLOOR	KO	KNOCK OUT	OPD	OPPOSITE	RND	ROUND	UTIL	UTILITY		
APRX	APPROXIMATE	CTRL	CONTROL	FLS	FLASHING, FLUSH	KSI	KIPS PER SQUARE INCH	OPT	OPTIONAL	RNG	RUNNING				
APVD	APPROVED	CV	CHECK VALVE	FLM	FORCEMAIN	KW	KILOWATT	OR	OUTSIDE RADIUS	RO	ROUGH OPENING	V	VENT, VELOCITY, VOLT		
ARCH	ARCHITECTURAL	CVT	CULVERT	FN	FENCE			ORD	OVERFLOW ROOF DRAIN	ROW	RIGHT-OF-WAY	VA	VOLT AMPERE		
ARV	AIR VALVE RELEASE	CU	COPPER, CUBIC	FO	FINISHED OPENING	L	ANGLE, LENGTH, LAVATORY, LINTEL	ORIG	ORIGINAL	RPM	REVOLUTIONS PER MINUTE	VAC	VACUUM		
ASSY	ASSEMBLY	CW	CLOCKWISE	FOB	FLAT ON BOTTOM	LAD	LADDER	OVFL	OVERFLOW	RR	RAILROAD	VAR	VARNISH, VARIABLE,		
AT	ACOUSTICAL TILE, AMP TRIP	CY	CUBIC YARD	FOC	FACE OF CONCRETE, FACE OF CURB	LAM	LAMINATE	OVHG	OVERHANG	RSP	ROCK SLOPE PROTECTION		VOLT AMPERES REACTIVE		
ATC	ACOUSTICAL TILE CEILING			FOF	FACE OF FINISH	LATL	LATERAL	OZ	OUNCE	RT	RIGHT	VB	VAPOR BARRIER, VINYL BASE,		
ATM	ATMOSPHERE	d	PENNY (NAIL MEASURE)	FOM	FACE OF MASONRY	LB	LAG BOLT, POUND	P&IDS	PIPING AND INSTRUMENTATION DIAGRAMS	RVT	RESILIENT VINYL TILE		VALVE BOX		
AUTO	AUTOMATIC	DB	DUCT BANK, DECIBEL, DRY BULB	FOS	FACE OF STUDS	LCTB	LIQUID CHALK AND TACK BOARD	P	PAINT	RY	READY	VC	VERTICAL CURVE		
AUX	AUXILIARY	DBA	DEFORMED BAR ANCHOR	FOT	FLAT ON TOP	LDG	LANDING	PA	PUBLIC ADDRESS	S	SOUTH, SINK	VCP	VITRIFIED CLAY PIPE		
AVE	AVENUE	DBL	DOUBLE	FPT	FEMALE PIPE THREAD	LDR	LEADER	PAR	PARALLEL, PARAPET	SA	SUPPLY AIR	VCT	VINYL COMPOSITION TILE,		
AVG	AVERAGE	DC	DIRECT CURRENT	FR	FRAME	LE	LIFTING EYE	PB	PANIC BAR, PULL BOX	SAMU	SOUND-ABSORBING MASONRY UNIT		VERTICAL CENTERLINE		
AWG	AMERICAN WIRE GAGE	DEG	DEGREE	FRP	FIBERGLASS REINFORCED PLASTIC	LF	LINEAR FOOT	PBD	PARTICLE BOARD	SAN	SANITARY	VEL	VELOCITY		
AWT	ACOUSTICAL WALL TILE	DEG C	DEGREE CENTIGRADE	FRTM	FIRE RETARDANT TREATED MATERIAL	LG	LONG	PC	POINT OF CURVE, PIECE, PRECAST	SB	SPLASH BLOCK, SPLITTER BOX	VENT	VENTILATION		
		DEG F	DEGREE FAHRENHEIT	FS	FLOOR SINK, FAR SIDE	LH	LEFT HAND	PC	POINT OF CURVE, PIECE, PRECAST	SC	SOLID CORE	VERT	VERTICAL		
B TO B	BACK TO BACK	DEMO	DEMOLITION	FT	FEET, FOOT	LIN	LINEAR	PCF	POUND OF COMPOUND CURVATURE	SCH	SCHEDULE	VERTS	VERTICAL REINFORCING		
BAL	BALANCE	DEP	DEPRESSED	FTG	FOOTING, FITTING	LIQ	LIQUID	PCT	PERCENT	SCHEM	SCHEMATIC	VIF	VERIFY IN FIELD		
BBD	BULLETIN BOARD	FUR	FURRED, FURRING	LLH	LONG LEG HORIZONTAL	LLV	LONG LEG VERTICAL	PE	PLAIN END, PERMANENT EASEMENT	SCN	SCREEN	VIN	VINYL		
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	FURN	FURNITURE, FURNISH	LLV	LONG LEG VERTICAL	PED	PEDESTAL	PEN	PENETRATION	SE	STEEL/ALUMINUM EDGE	VOL	VOLUME		
BD	BOARD	DIA	DIAMETER	FUT	FUTURE	PERF	PERFORATED	PERF	PERFORATED	SEWL	SOUTHEAST WATERLINE	VPC	VERTICAL POINT OF CURVATURE		
BE	BOTH ENDS, BELL END	DIAG	DIAGONAL, DIAGRAM	FV	FACE VELOCITY	LNG	LONGITUDINAL	PH	PHASE </tr						

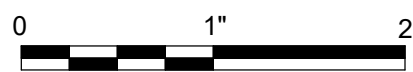
			PROJECT ENGINEER	M. SABON		
			STRUCTURAL	Z. NANNEN		
			ARCHITECTURAL	S. HEANEY		
			ELECTRICAL	B. JOHNSON		
			MECHANICAL	K. CHAUDHARI		
			01/2025	100% DESIGN REVIEW	INSTRUMENTATION	C. AUDIO
			11/2025	90% DESIGN REVIEW	DRAWN BY	E. PAZ
			10/2023	50% DESIGN REVIEW	PROJECT NUMBER	10368614
			ISSUE	DATE	DESCRIPTION	

**NOT FOR
CONSTRUCTION
OR
RECORDING**



**City of Loveland
Water & Power**

RAILROAD LIFT STATION



GENERAL ABBREVIATIONS

GENERAL NOTES

1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION, "INC" MAY MEAN INCLUDED OR INCLUDING, AND "REINF" MAY MEAN REINFORCE OR REINFORCING.
4. SEE INSTRUMENTATION AND GENERAL LEGEND SHEETS FOR PROJECT-SPECIFIC EQUIPMENT AND PIPING SYSTEM ABBREVIATIONS.

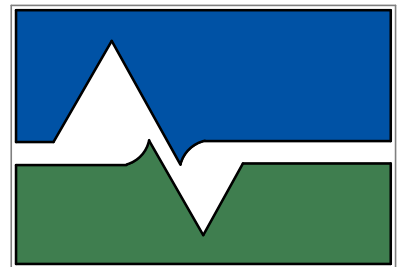
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PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANNEN
ARCHITECTURAL	S. HEANEY
ELECTRICAL	B. JOHNSON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	E. PAZ
PROJECT NUMBER	10368614

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**City of Loveland
Water & Power**

RAILROAD LIFT STATION



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SCALE	12" = 1'-0"

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00G003
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CITY OF LOVELAND STANDARD EROSION AND SEDIMENT CONTROL CONSTRUCTION PLAN NOTES

1. THE EROSION CONTROL INSPECTOR MUST BE NOTIFIED AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION ON THIS SITE.
2. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED ON THE ACCEPTED PLANS.
3. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND EROSION CONTROL REPORT.
4. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WIND BLOWN SEDIMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
5. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
6. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL BMPs ARE INSTALLED. NO SOILS IN AREAS OUTSIDE PROJECT STREET RIGHTS -OF-WAY SHALL REMAIN EXPOSED BY LAND DISTURBING ACTIVITY FOR MORE THAN THIRTY (30) DAYS BEFORE REQUIRED TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF LOVELAND.
7. IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:
 - a. BE INSPECTED AT A MINIMUM OF ONCE EVERY TWO (2) WEEKS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - b. REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED AS DETERMINED BY THE EROSION CONTROL INSPECTOR.
 - c. BE REMOVED AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE EROSION CONTROL INSPECTOR.
8. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
9. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
10. ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY WATERS OF THE UNITED STATES.
11. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING. ANY SOIL STOCKPILE REMAINING AFTER THIRTY (14) DAYS SHALL BE SEEDED AND MULCHED.
12. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE CITY OF LOVELAND OR HOMEOWNERS ASSOCIATION (HOA).
13. CITY ORDINANCE AND COLORADO DISCHARGE PERMIT SYSTEM (CDPS) REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
14. A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
15. TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS ONE OR MORE OF THE FOLLOWING SEDIMENT/EROSION CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED UNTIL THE LOTS ARE SUFFICIENTLY STABILIZED, AS DETERMINED BY THE EROSION CONTROL INSPECTOR, (LOVELAND GMA & CITY LIMITS ONLY).
 - (A.) BELOW ALL GUTTER DOWNSPOUTS.
 - (B.) OUT TO DRAINAGE SWALES.
 - (C.) ALONG LOT PERIMETER.
 - (D.) OTHER LOCATIONS, IF NEEDED.
16. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF LOVELAND.
17. A VEHICLE TRACKING CONTROL PAD SHALL BE INSTALLED WHENEVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILE(S), STAGING AREA(S), CONSTRUCTION MATERIAL(S), CONCRETE WASHOUT AREA(S) AND/OR BUILDING SITE(S).

INITIAL BMPs

DETAIL	DWG NO.	BEST MANAGEMENT PRACTICE (BMP) LEGEND:	
A	00D013		 CHECK DAM
B	00D013		 CONSTRUCTION FENCE
C	00D013		 CONCRETE WASHOUT AREA
D	00D013		 ROCK LOG /ROCK SOCK
A	00D014		 STREAMBANK STABILIZATION
B	00D014		 SEDIMENT CONTROL LOG
A	00D015		 SILT FENCE
B	00D015		 STABILIZED STAGING AREA
D	00D015		 VEHICLE TRACKING CONTROL
A	00D018		 TEMPORARY STREAM CROSSING
A	00D017		 EARTH DIKE/ DRAINAGE/ SWALE
A	00D016		OPEN TRENCH
B	00D018		BORE PIT
			LIMITS OF CONSTRUCTION
NOTE 3		PERMANENT SEEDING	
NOTE 2		REINFORCED SILT FENCE	
C	00D015		 SURFACE ROUGHENING
			SEDIMENT TRAP

FINAL BMPs

SURFACE HATCHES

PERMANENT SEEDING

RIPARIAN SEED

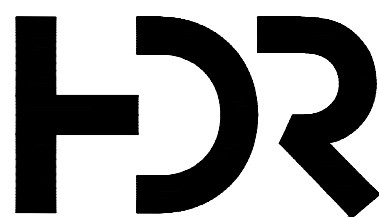
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NOTE:

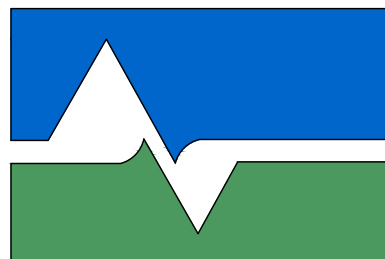
1. FOR JURISDICTIONAL SPECIFIC SEED MIXES SEE SPECIFICATION 32 92 00.
2. SEE URBAN STORM DRAINAGE CRITERIA MANUALS 1-3 AND CITY OF LOVELAND ADDENDUM TO THIS MANUAL (JULY, 2020).
3. BMP IS CONSIDERED A FINAL PHASE SWMP MEASURE.

TO JURISDICTION REVIEWER - DETAIL NOTES:

SWMP SHEETS SHOW MINIMUM BMP REQUIREMENTS THE CONTRACTOR SHALL USE. CONTRACTOR SHALL ABIDE BY AND FOLLOW SWMP REQUIREMENTS FOR EACH LOCAL JURISDICTION HAVING AUTHORITY. THE CONTRACTOR SHALL INCLUDE JURISDICTIONAL SPECIFIC DETAILS AND DETAIL NOTES. WHEN THE PLANS AND REPORT ARE SUBMITTED TO EACH JURISDICTION FOR A SWMP/SWMP/GRADING PERMIT THE DETAILS ARE TO INCLUDE THE JURISDICTION SPECIFIC DETAILS, I.E. URBAN DRAINAGE OR ADAMS COUNTY DETAILS, AS WELL AS TYPICAL APPROACHES FOR MATERIAL STAGING AREAS, DIRECTIONAL DRILL PIT AREAS, AND TUNNELING SHAFT AREAS.

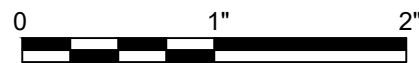
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RAILROAD LIFT STATION

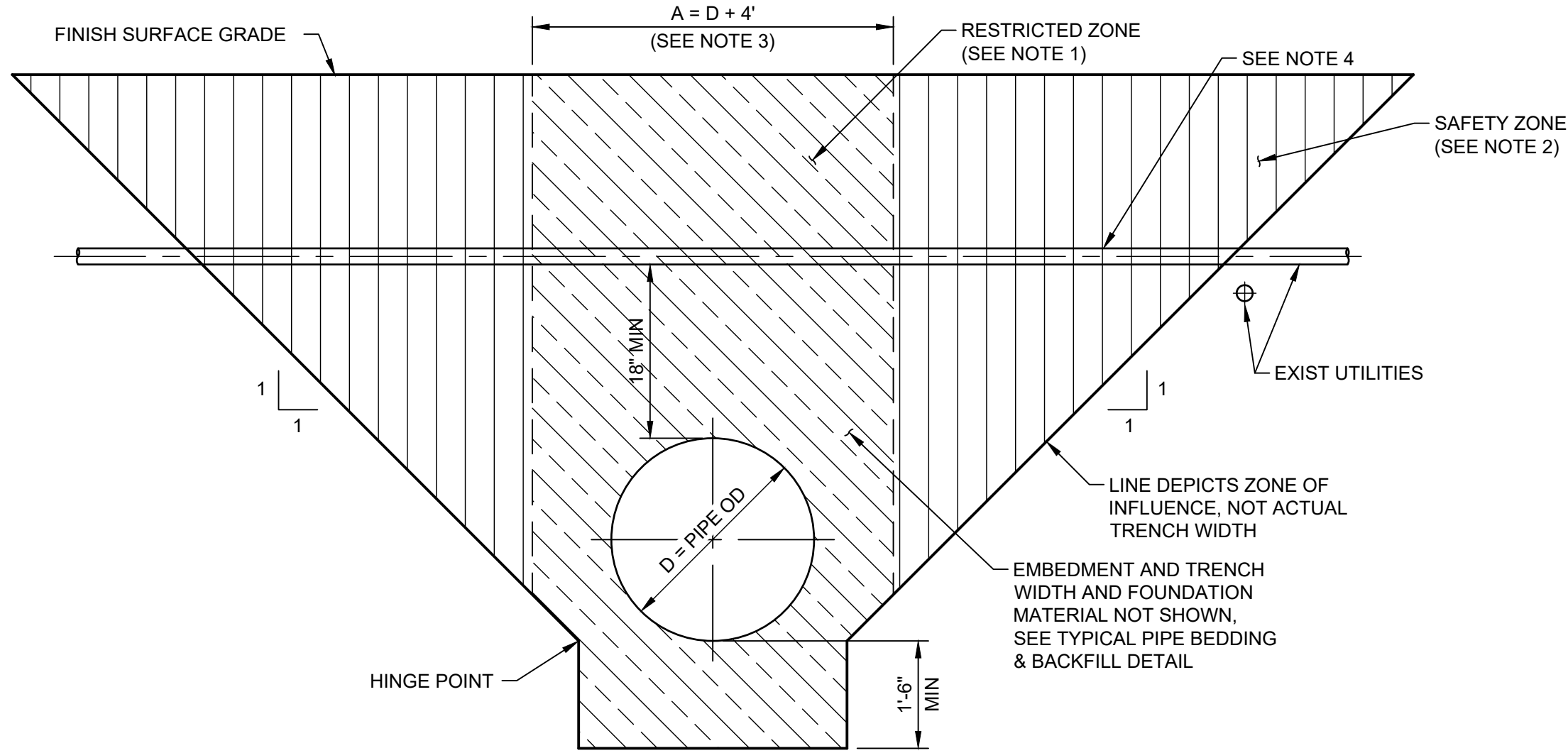
GENERAL STORMWATER MANAGEMENT PLAN (SWMP) NOTES



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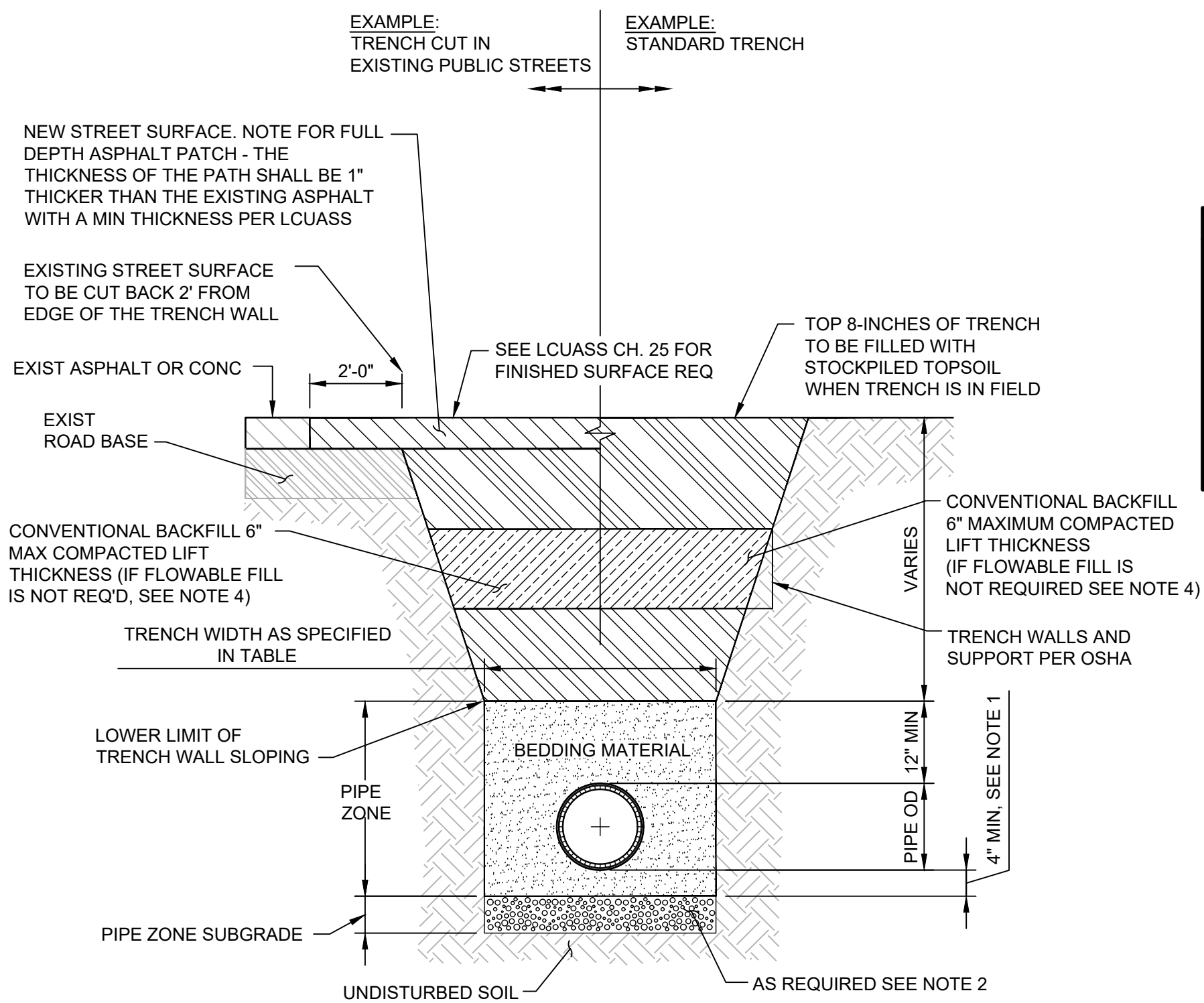
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TYPICAL UTILITY PROTECTION DETAIL

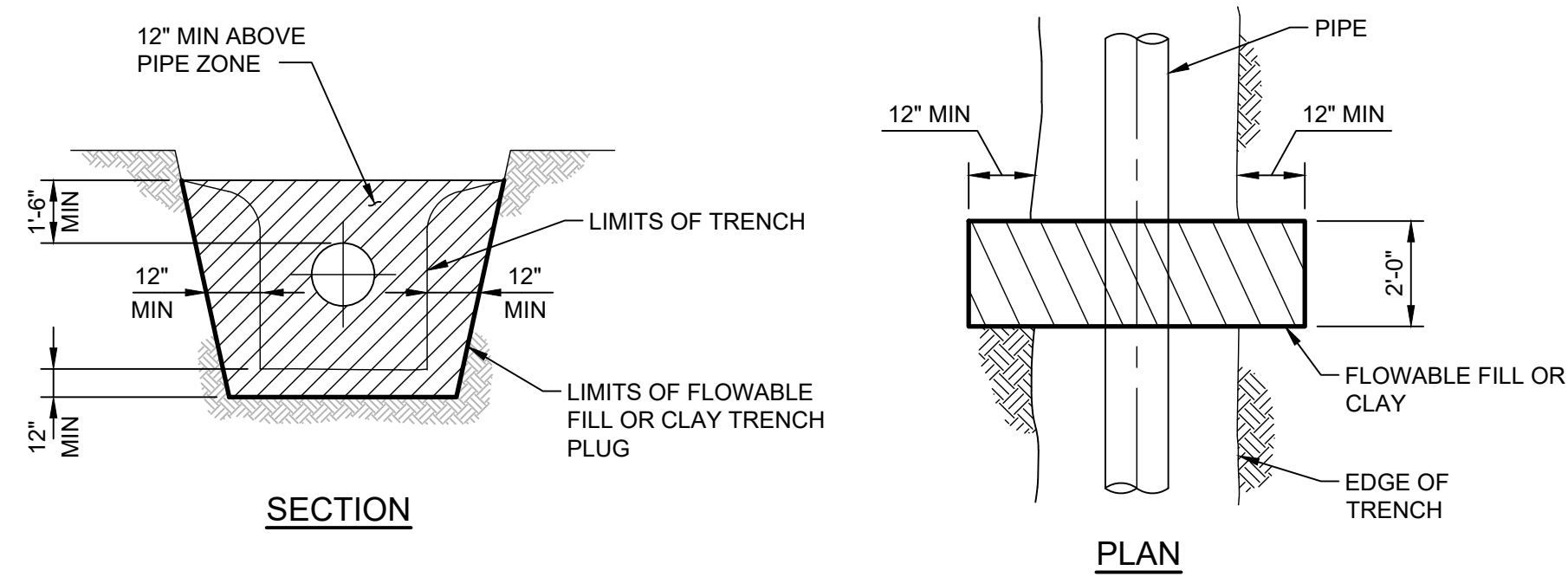


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CITY OF LOVELAND STANDARD DETAIL WW-1

TYPICAL SEWER PIPE BEDDING & BACKFILL

TYPICAL UTILITY PROTECTION DETAIL NOTES:

1. **RESTRICTED ZONE:** ALL EFFORTS SHALL BE MADE TO AVOID PARALLEL UTILITIES AND APPURTENANT STRUCTURES IN THE RESTRICTED ZONE. UTILITIES MAY CROSS PERPENDICULARLY THROUGH BOTH THE SAFETY AND RESTRICTED ZONES PROVIDED THAT MINIMUM VERTICAL CLEARANCES OF 12-INCHES ABOVE AND 18-INCHES BELOW THE NEW PIPELINE IS MAINTAINED. IF EXISTING UTILITIES ARE DISCOVERED THAT DO NOT MEET MIN CLEARANCE, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MAKE APPROPRIATE CHANGES IN THE FIELD.
2. **SAFETY ZONE:** REASONABLE EFFORTS SHALL BE MADE TO LOCATE PARALLEL UTILITIES AND APPURTENANT STRUCTURES INSIDE THE SAFETY ZONE. PARALLEL UTILITIES AND APPURTENANT STRUCTURES LOCATED WITHIN THIS ZONE SHALL BE AVOIDED/ PROTECTED THROUGHOUT CONSTRUCTION OF THE NEW PIPELINE. THE BOUNDARIES OF THE SAFETY ZONE ARE ESTABLISHED BY A 1:1 SLOPE EXTENDING FROM THE HINGE POINTS OF DIMENSION "A" TO THE FINISH SURFACE GRADE ON EACH SIDE OF THE NEW PIPELINE.
3. DIMENSION "D" IS EQUAL TO THE OUTSIDE DIAMETER OF THE NEW PIPELINE. DIMENSION "A" IS EQUAL TO "D" PLUS FOUR FEET.
4. CONTRACTOR SHALL FIELD LOCATE AND POTHOLE ALL KNOWN CROSSED UTILITIES PRIOR TO ANY EXCAVATION. CROSSED UTILITIES MUST BE SUPPORTED WHENEVER THE SUPPORTING SOIL IS REMOVED. FOR ALL 18-INCH AND LARGER CROSSED UTILITIES, CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO DESIGN A PIPE SUPPORT SYSTEM APPROPRIATE TO THE CONSTRUCTION METHODS EMPLOYED AS SPECIFIED IN THE PROTECTION OF EXISTING FACILITIES SPECIFICATION 01 50 10 AND PIPE UNDERCROSSINGS SPECIFICATION 33 05 23. CONTRACTOR SHALL CONSULT THE OWNER OF THE CROSSED UTILITY TO DETERMINE THE MATERIALS OF CONSTRUCTION AND JOINT TYPES. CONTRACTOR SHALL SUBMIT THE PROPOSED SUPPORT METHOD TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST 30 DAYS PRIOR TO EXCAVATING.
5. FLOW FILL BACKFILL IS REQUIRED FROM TOP OF INTERCEPTOR TO SPRING LINE OF 18" AND LARGER CROSSED UTILITY.

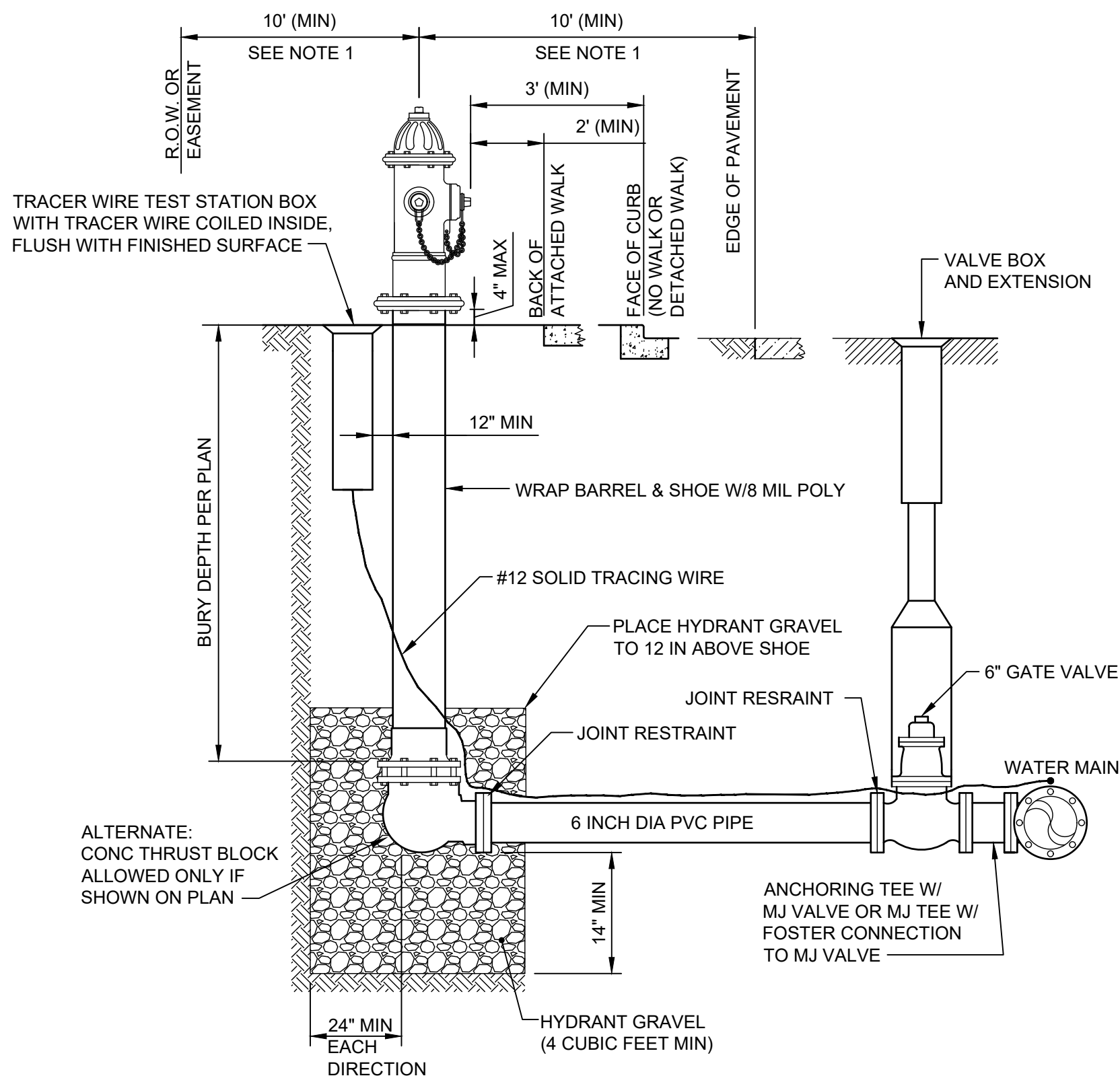


NOTES:

1. TRENCH PLUG MATERIAL SHALL EXTEND 12" MIN INTO UNDISTURBED SOIL ON EACH SIDE AND ON BOTTOM OF TRENCH.
2. MATERIAL USED FOR TRENCH PLUGS SHALL BE AS SPECIFIED IN THE TRENCHING, BACKFILL AND COMPACTION FOR UTILITIES SECTION.

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GROUNDWATER CUTOFF/ TRENCH PLUG

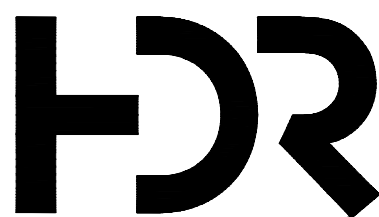


NOTES:

1. FIRE HYDRANTS SHALL BE LOCATED 2'-0" MIN. FROM BACK OF CURB OR 2' MIN. FROM BACK EDGE OF SIDEWALK OR 10'-0" MIN. UNLESS OTHERWISE NOTED. FROM EDGE OF PAVEMENT IF NO CURB IS PRESENT.
2. LATERAL PIPE BETWEEN GATE VALVE AND HYDRANT SHALL BE 6" PVC AWWA C-900, DR14.
3. ALL FITTINGS AND VALVES SHALL BE ENCASED WITH A MINIMUM 8 MIL POLYETHYLENE WRAP.
4. ALL JOINTS SHALL BE RESTRAINED BY USE OF MECHANICAL JOINT RESTRAINTS PER SECTION 4.4.3.B.
5. SEE CHAPTER 6 OF THE STANDARDS FOR COMPACTION AND TESTING REQUIREMENTS.

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CITY OF LOVELAND STANDARD DETAIL W-03

FIRE HYDRANT DRAWING

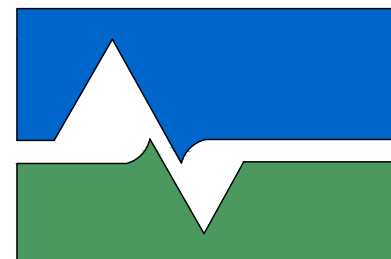


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11/2025	90% DESIGN REVIEW
10/2023	50% DESIGN REVIEW

ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

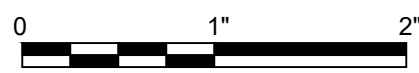
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**City of Loveland
Water & Power**

**RAILROAD
LIFT STATION**

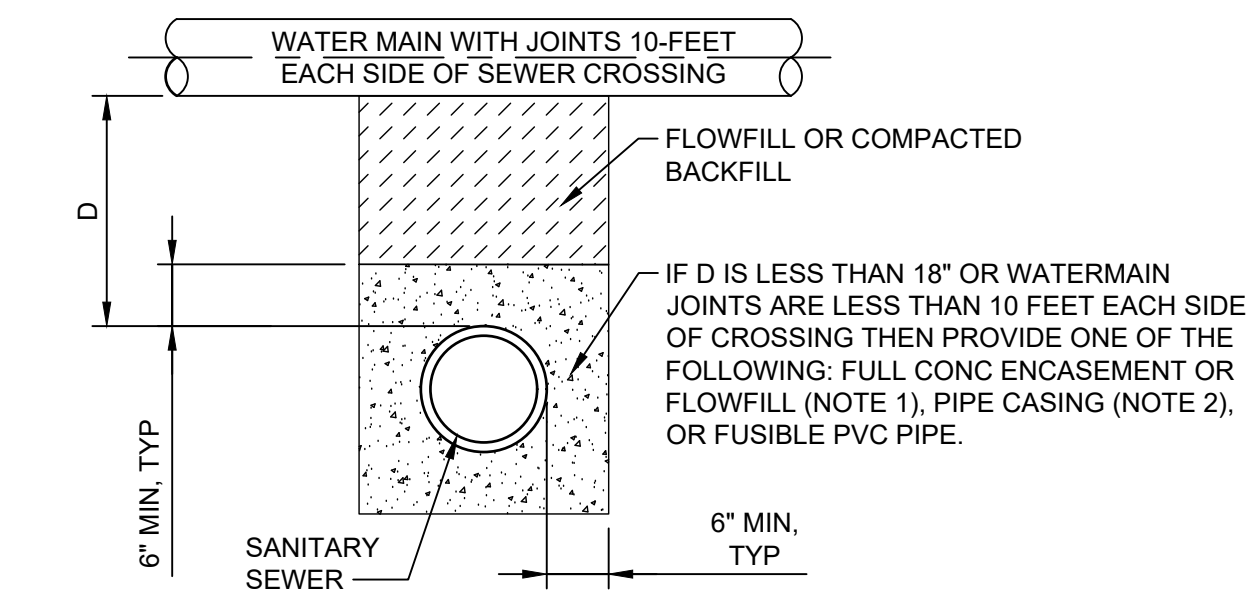
**CIVIL UTILITIES AND SITE
DETAILS 1**



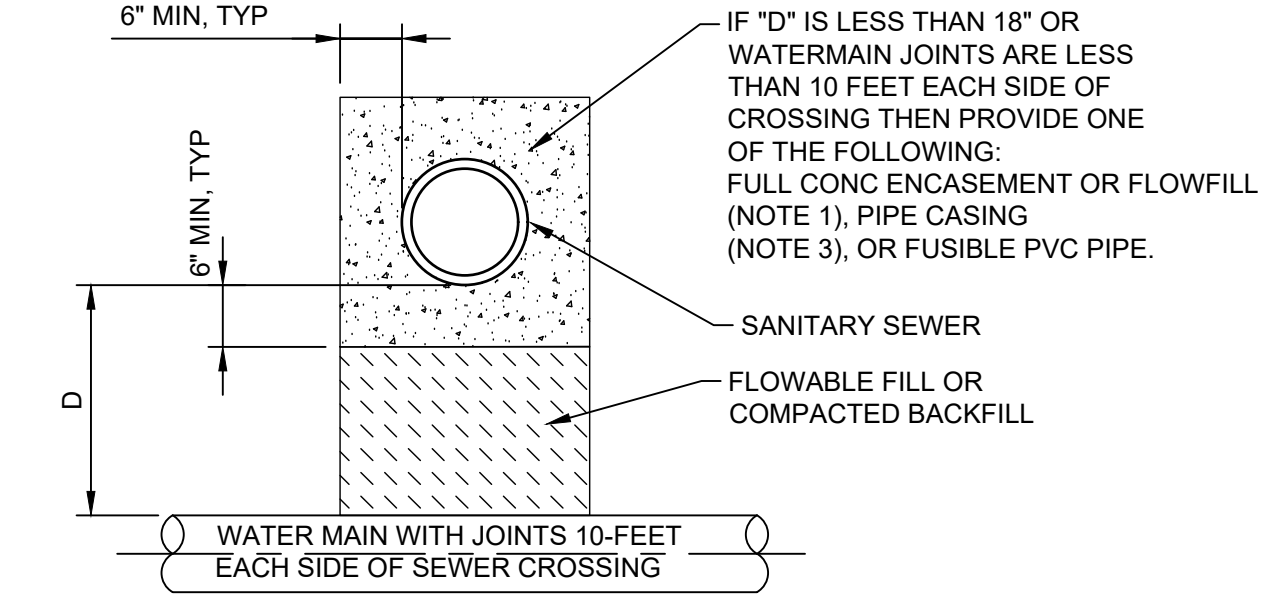
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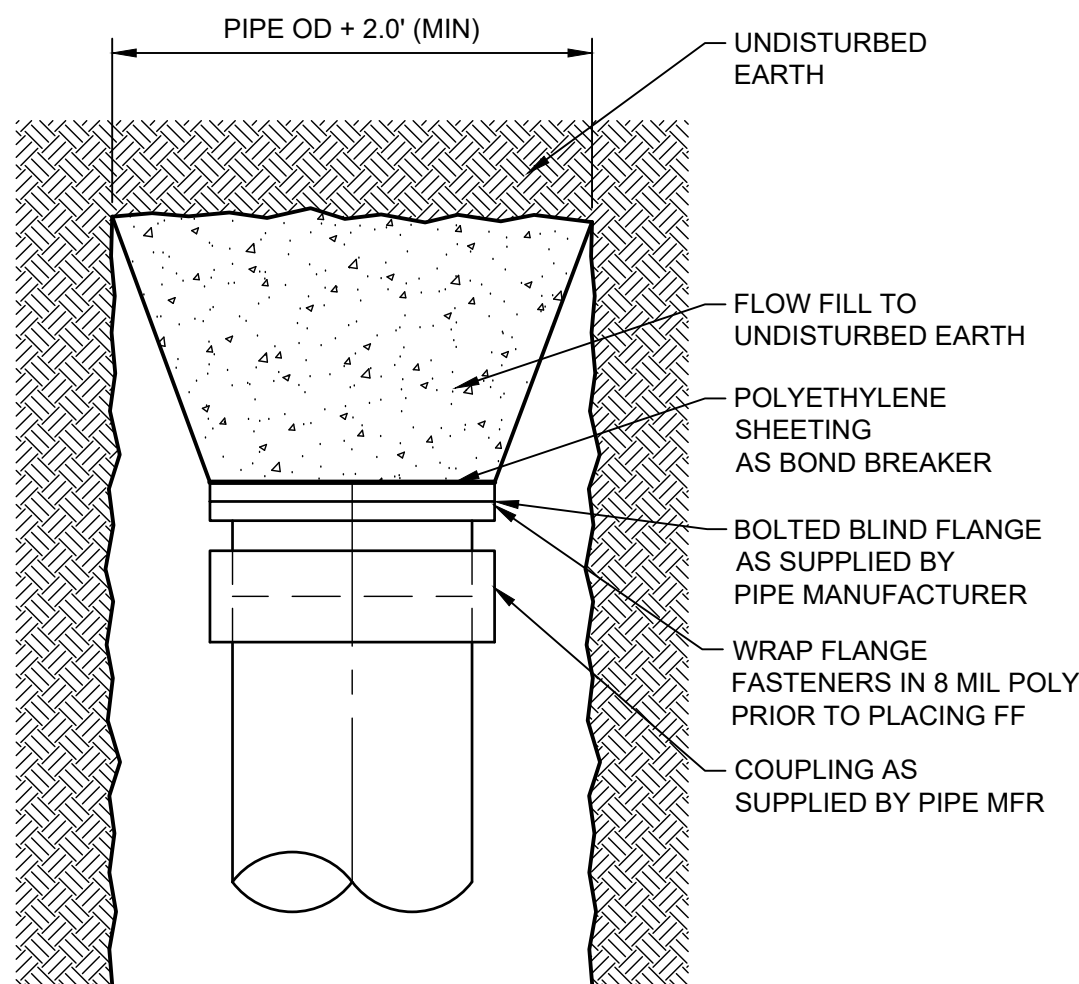
SANITARY SEWER CROSSING UNDER WATER MAIN



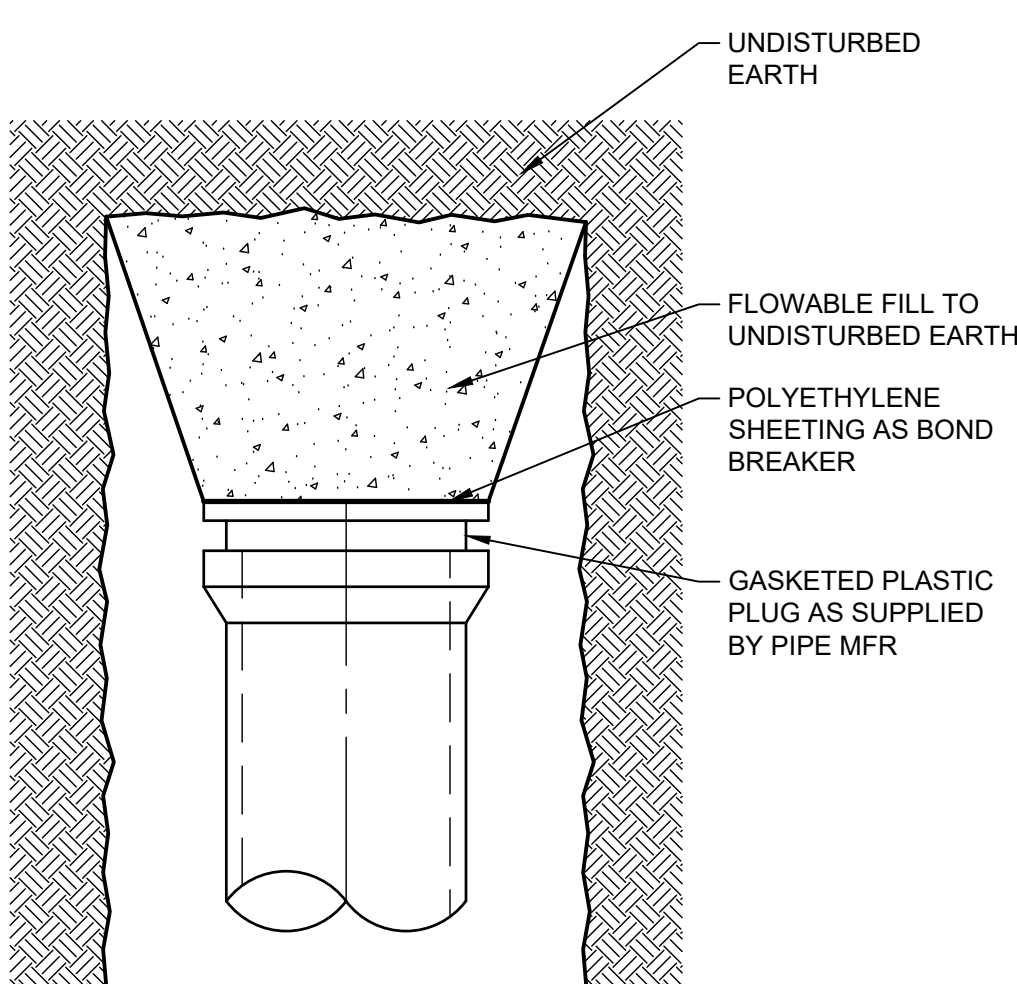
SANITARY SEWER CROSSING OVER WATER MAIN

NOTES:

1. CONCRETE ENCASEMENT OR FLOWFILL TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING AND SHALL EXTEND AT LEAST 10-FEET EACH SIDE OF WATER MAIN CROSSING.
2. PIPE CASING BELOW A WATER MAIN SHALL CONSIST OF A SINGLE SECTION OF STEEL, DUCTILE IRON OR PVC PIPE AND EXTEND AT LEAST 9-FEET EACH SIDE OF THE WATER MAIN CROSSING. SUITABLE CASING SPACERS AND END SEALS SHALL BE PROVIDED.
3. PIPE CASING ABOVE A WATER MAIN SHALL CONSIST OF A SINGLE SECTION OF STEEL PIPE AND EXTEND AT LEAST 9-FEET EACH SIDE OF THE WATER MAIN CROSSING. SUITABLE CASING SPACERS AND END SEALS SHALL BE PROVIDED.



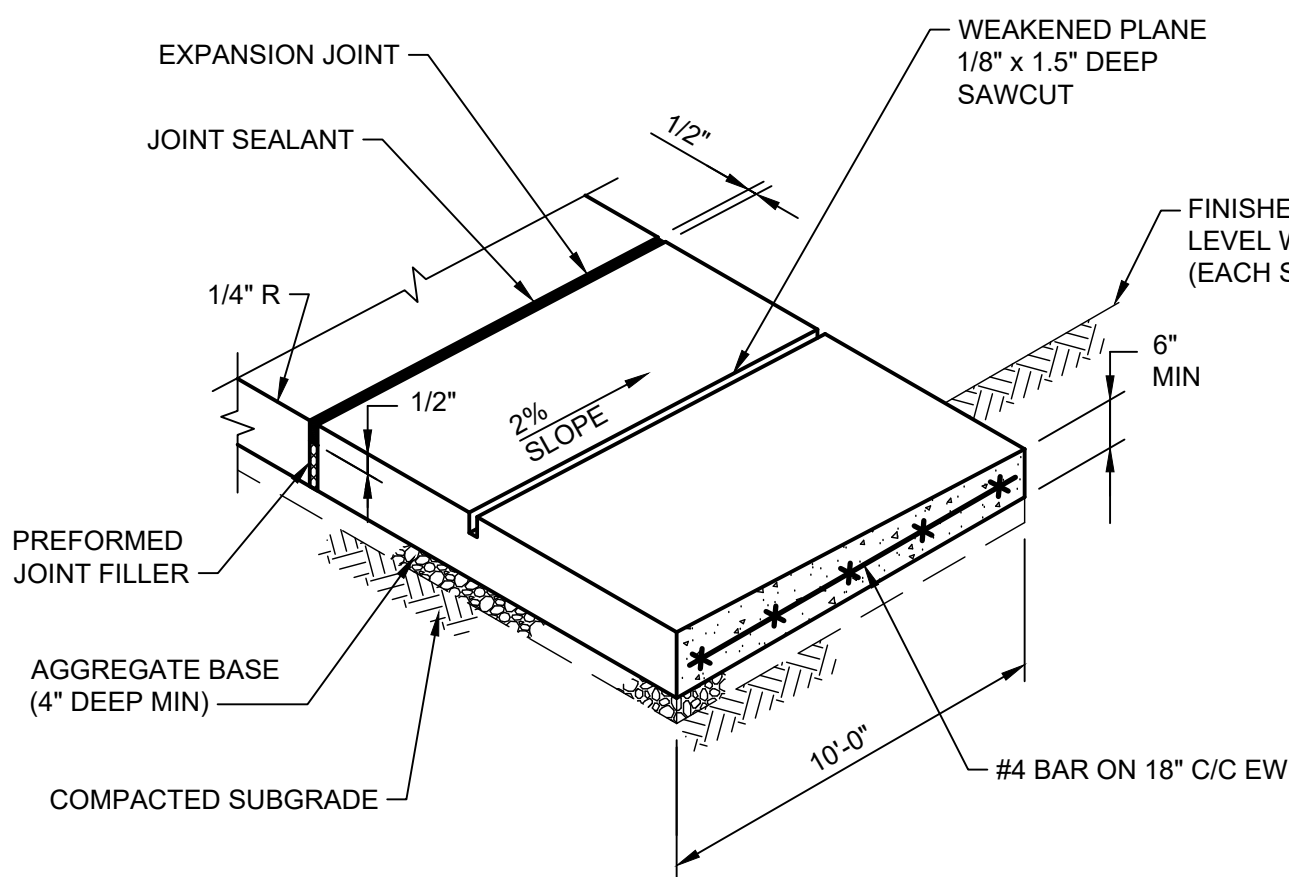
FRPM PIPE



PVC PIPE

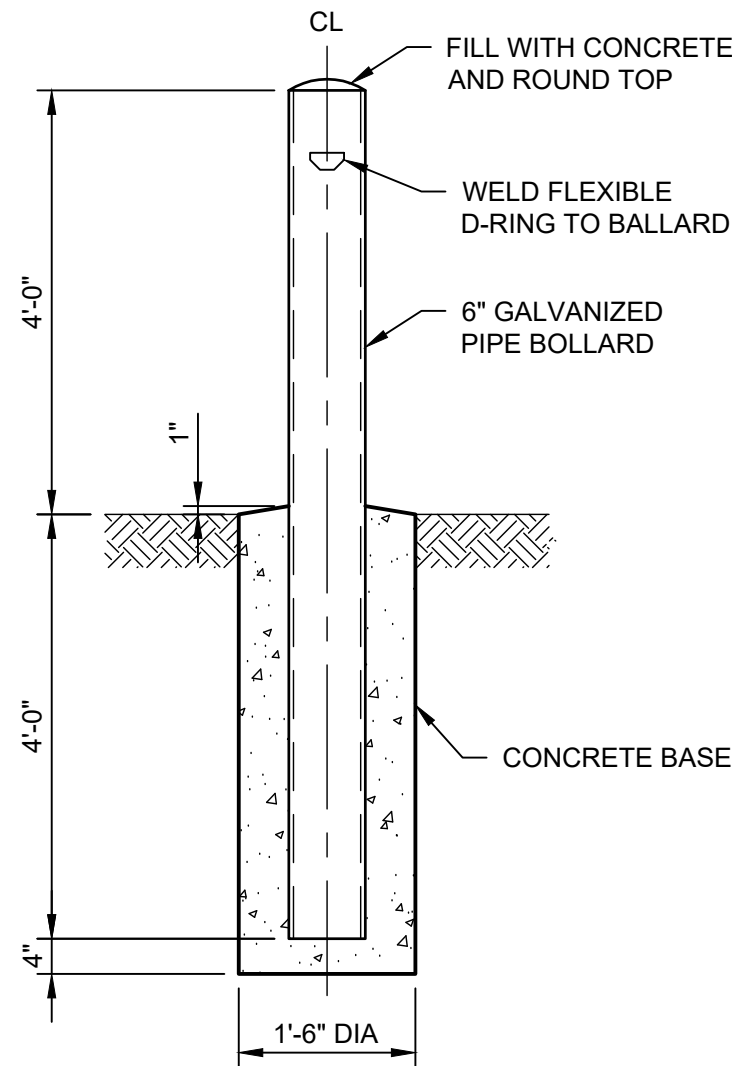
NOTES:

1. SANDBAGS ARE ACCEPTABLE FOR USE AS FORMS FOR FLOW FILL.
2. VOLUME FOR FLOW FILL TO BE CALCULATED AS FOLLOWS: PIPE CROSS SECTIONAL AREA (SQ FT) ÷ 5 = CU YDS REQUIRED (1.3 CU YD MIN).
3. FURNISH MARKER FROM STUB TO 4 FT ABOVE EXISTING GROUND SURFACE.



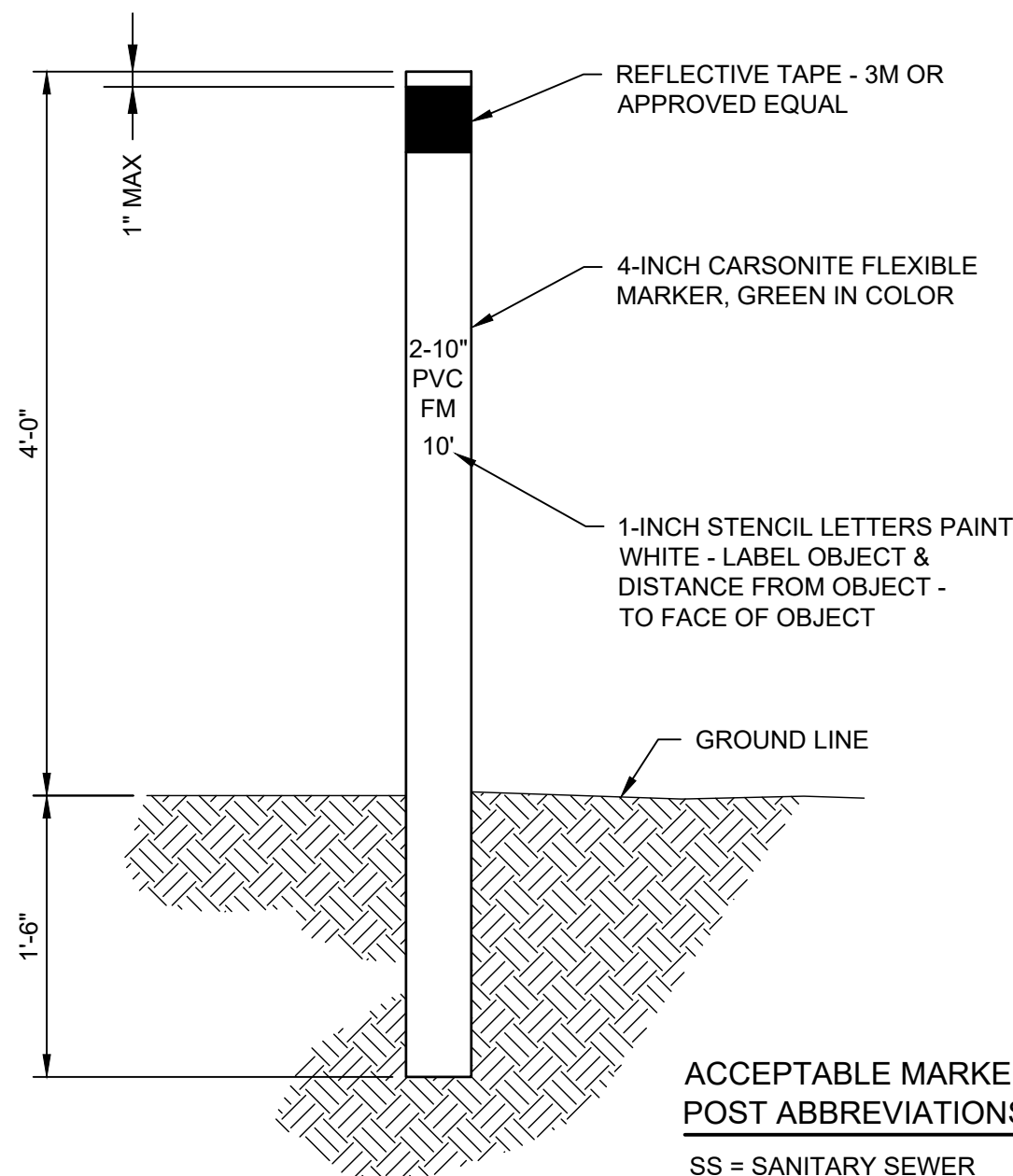
NOTES:

1. PLACE PREFORMED JOINT FILLER FULL DEPTH THRU JOINTS AT POINT OF TANGENCY AND AT MINIMUM 25 FOOT INTERVALS.
2. FINISHED GRADE SHALL NOT EXCEED 3:1 SLOPE.



NOTES:

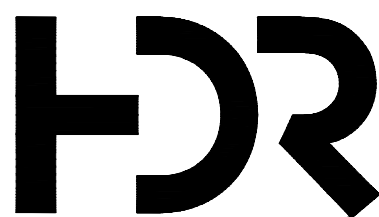
1. PAINTED SAFETY YELLOW.
2. INSTALL CHAIN BETWEEN BOLLARDS.
3. CHAIN SHALL BE 304L SS, 3/16" WITH 1,200 LB WORKING LOAD.



ACCEPTABLE MARKER POST ABBREVIATIONS
SS = SANITARY SEWER

NOTES:

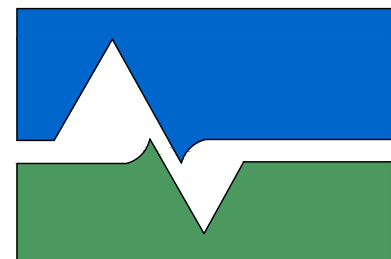
1. PLACE AT END CAP LOCATION OF EMERGENCY STORAGE STUB OUT.
2. MARKING CENTERLINE OF FORCEMAIN ALIGNMENT AT 500 FT INTERVALS.
3. STENCIL PIPE SIZE AND MATERIAL.



ISSUE	DATE	DESCRIPTION
	01/2026	100% DESIGN REVIEW
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INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

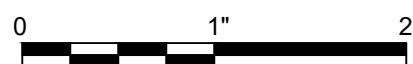
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

CIVIL UTILITIES AND SITE
DETAILS 2

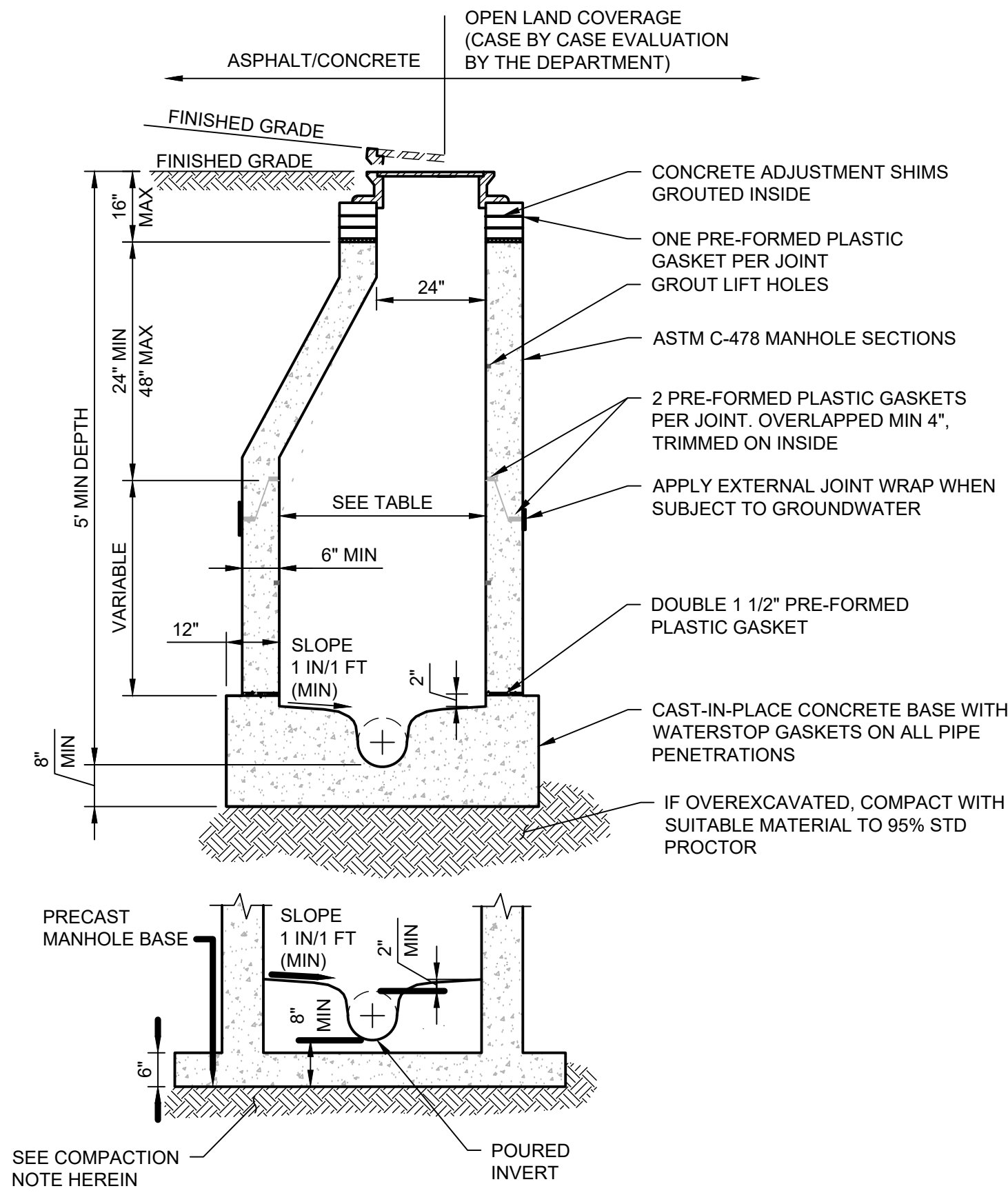


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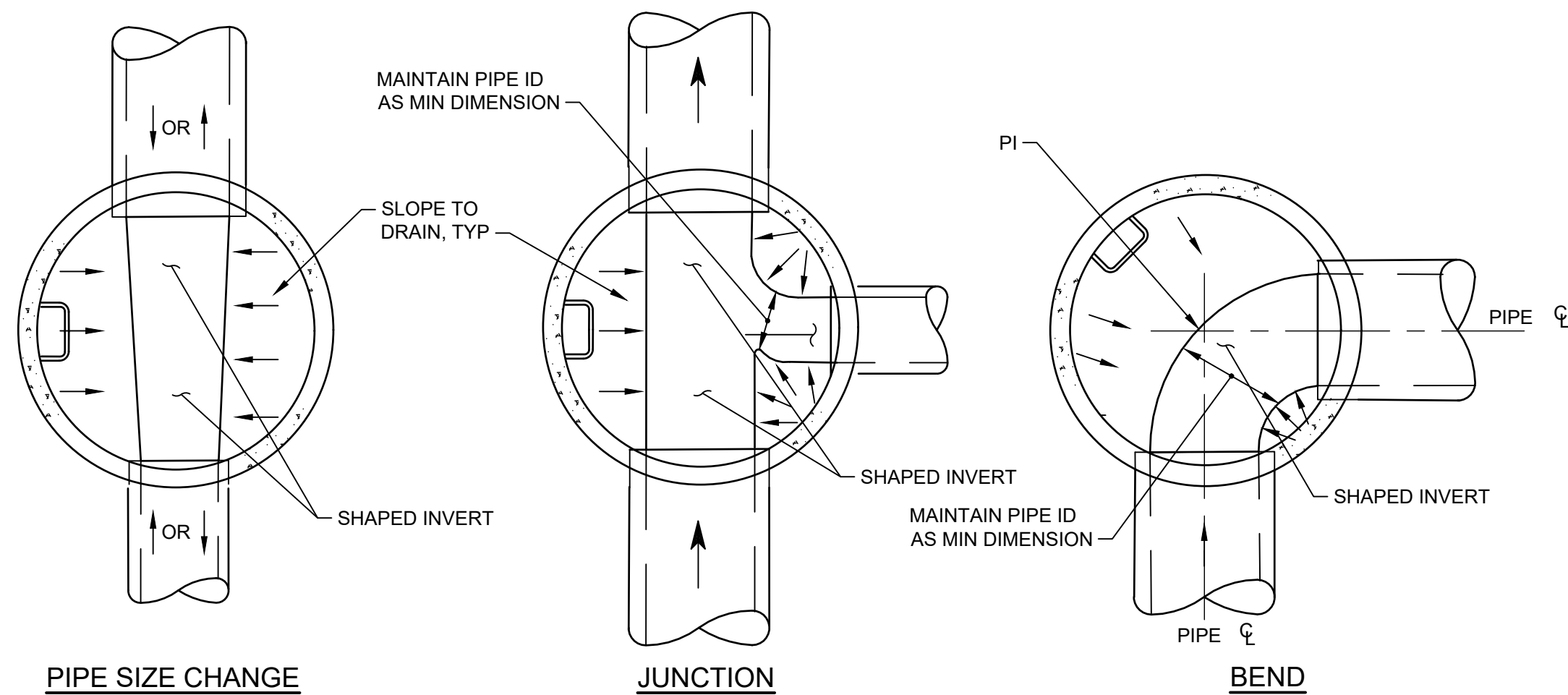
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ALTERNATE PRE-CAST BASE

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CITY OF LOVELAND STANDARD DETAIL WW-2

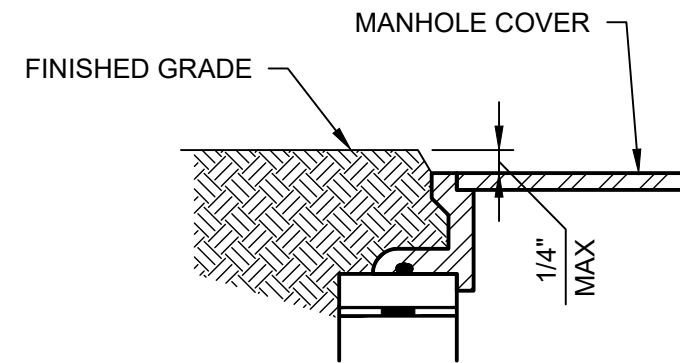


PIPE SIZE CHANGE

JUNCTION

BEND

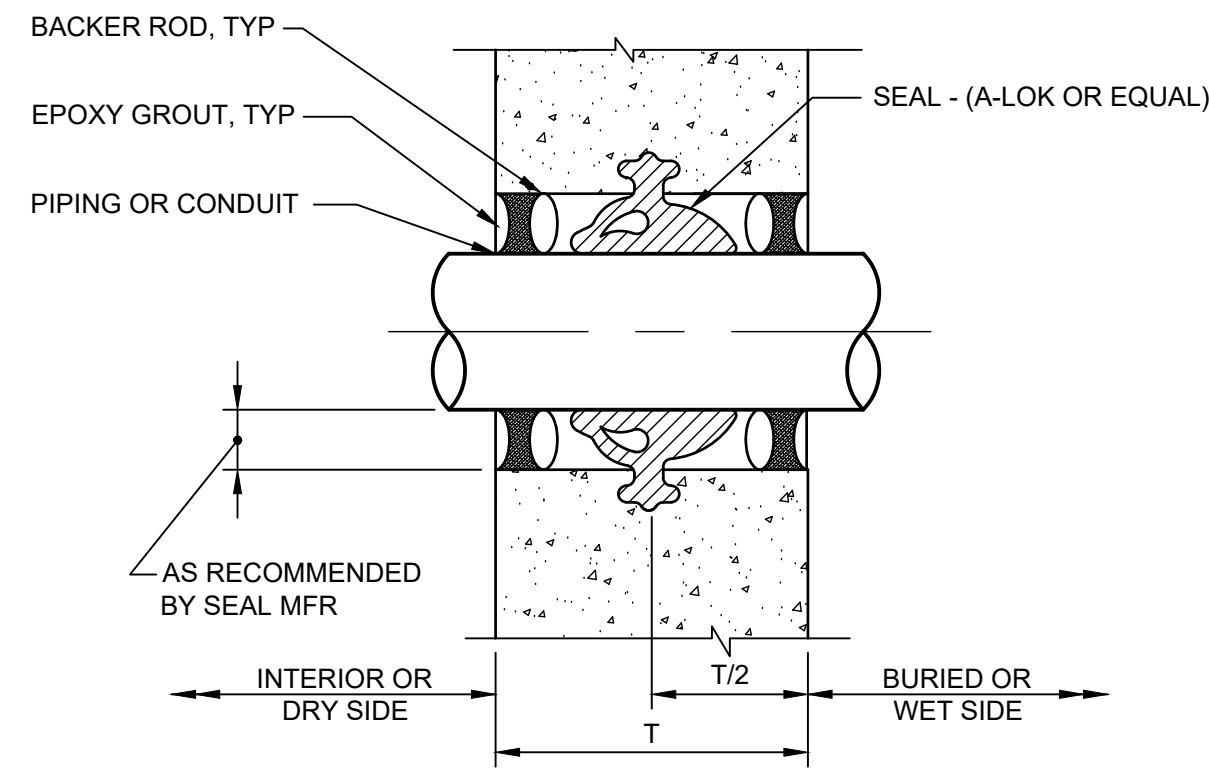
4
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STANDARD INVERTS



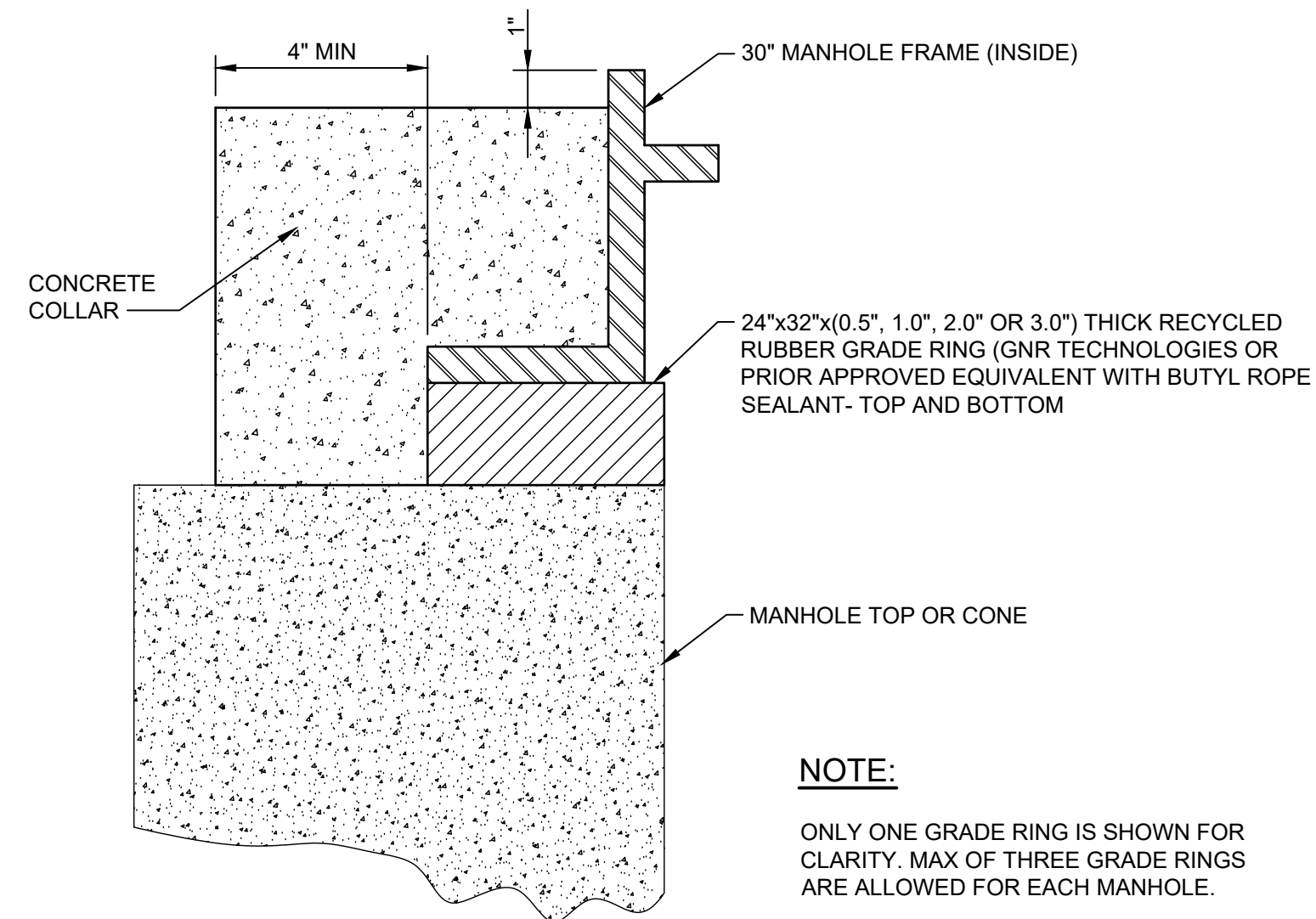
MINIMUM INSIDE DIAMETER OF MANHOLE		
PIPE SIZE	MIN MANHOLE DIAMETER	FRAME AND COVER DIA
18 IN OR LESS	48 IN	24 IN
20 TO 24 INCHES	60 IN	24 IN
OVER 24 INCHES	72 IN	24 IN

NOTES

1. ALL WASTEWATER MANHOLES SHALL BE VACUUM TESTED.
2. ALL JOINTS SHALL BE PRIMED PRIOR TO PLACEMENT OF PREFORMED PLASTIC GASKETS AND EXTERNAL JOINT WRAP (IF NECESSARY).
3. DIAMETER OF PREFORMED PLASTIC GASKETS SHALL BE 1.5" FOR 48" MANHOLES AND 2" FOR LARGER MANHOLES.
4. PROVIDE RING AND COVER, PER THE STANDARDS, AND ADJUST CONSISTENT WITH SLOPE OF FINISH GRADE.
5. SEE CHAPTER 6 OF THE STANDARDS FOR COMPACTION AND TESTING REQUIREMENTS.



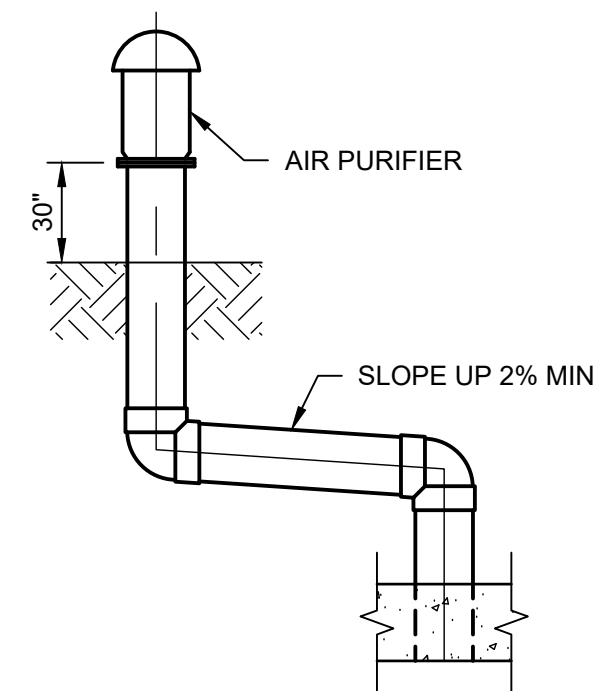
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PENETRATION DETAIL
MANHOLE SECTION



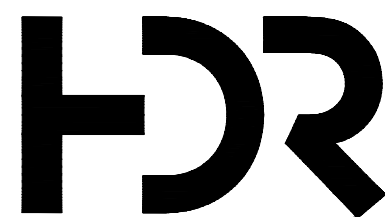
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MANHOLE CONCRETE COLLAR

NOTE:

ONLY ONE GRADE RING IS SHOWN FOR CLARITY. MAX OF THREE GRADE RINGS ARE ALLOWED FOR EACH MANHOLE.



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VENT PIPE

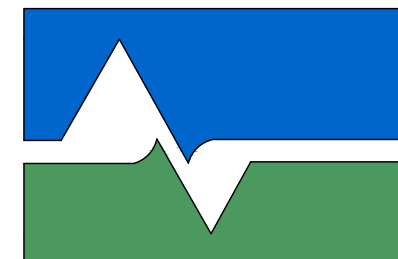


01/2026	100% DESIGN REVIEW
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ISSUE DATE DESCRIPTION

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INSTRUMENTATION	C. AUDIO
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PROJECT NUMBER	10368614

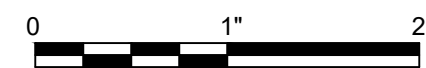
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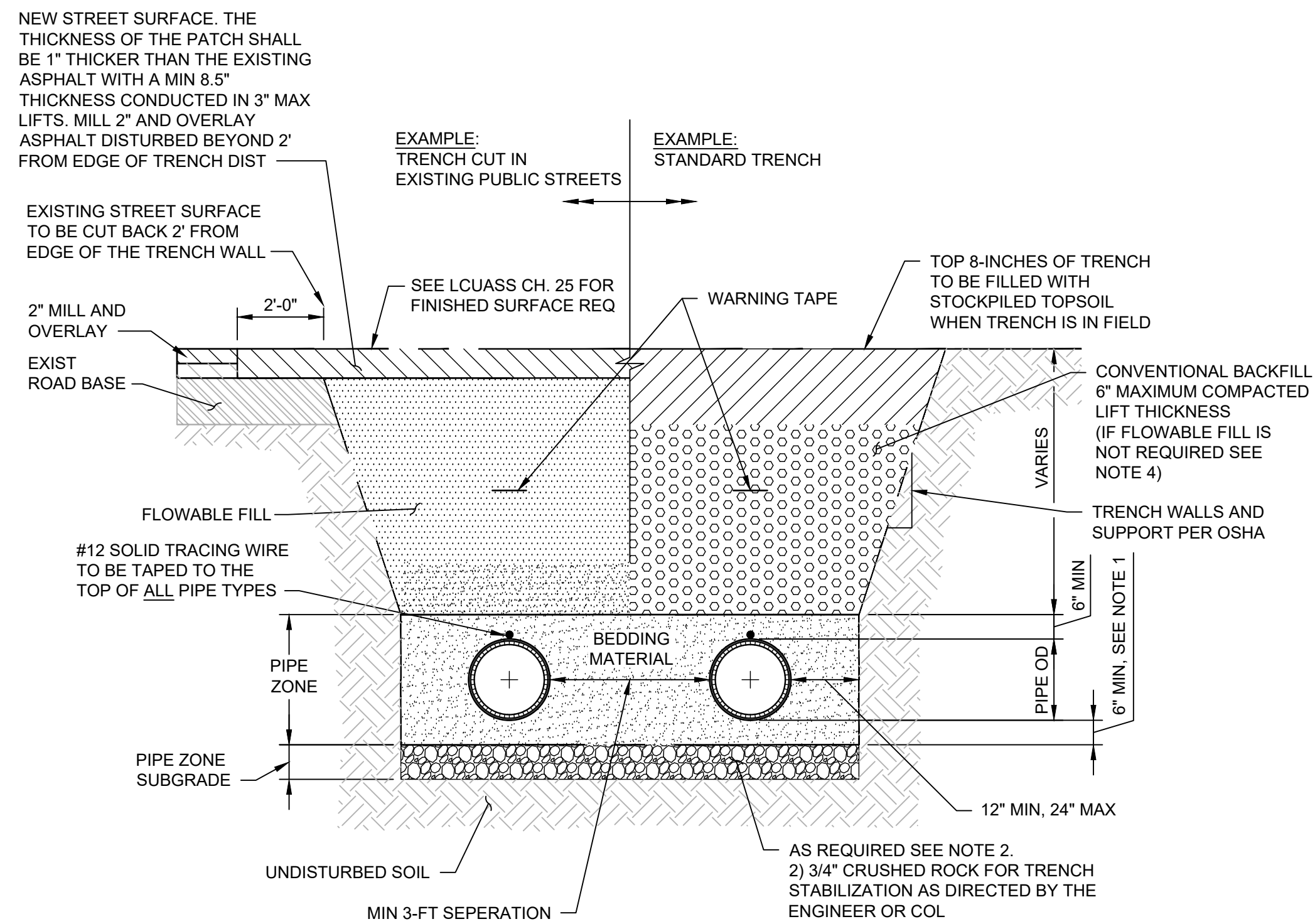
RAILROAD
LIFT STATION

CIVIL UTILITIES AND SITE
DETAILS 3



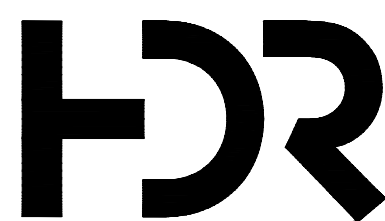
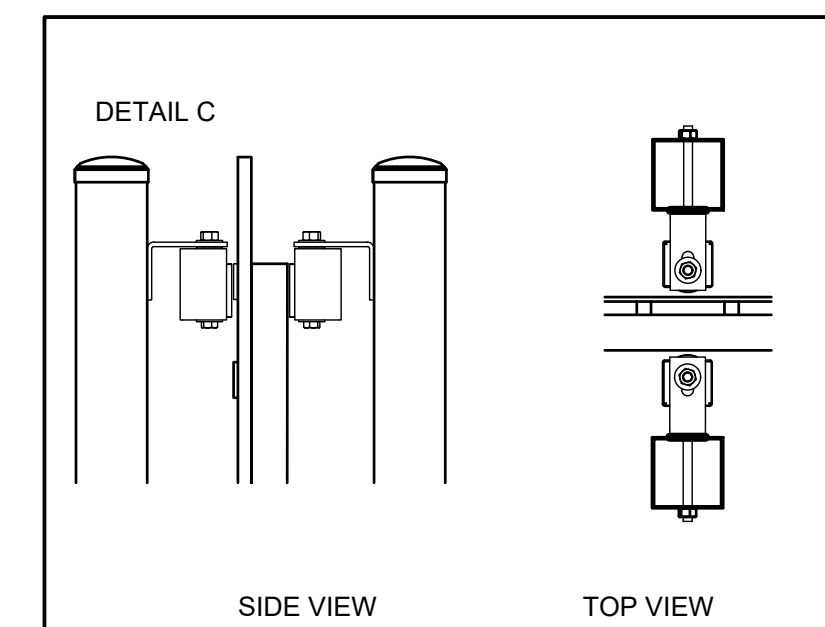
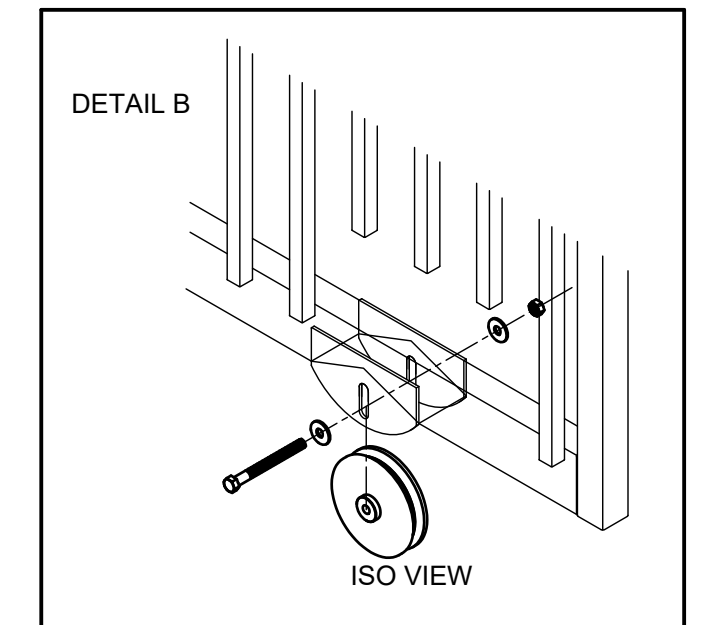
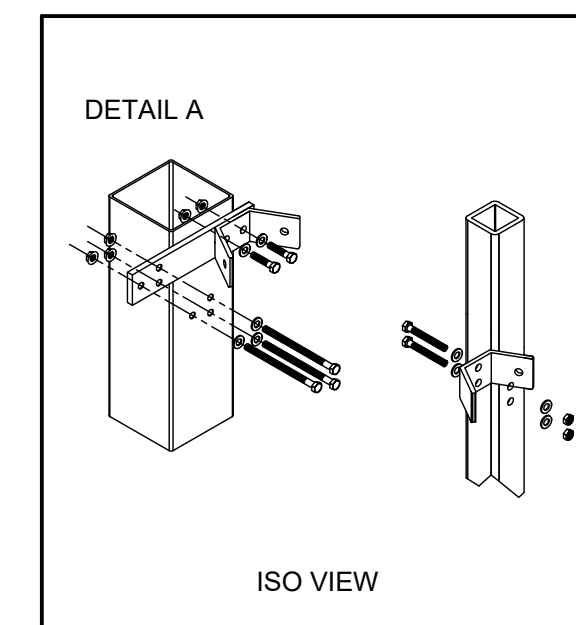
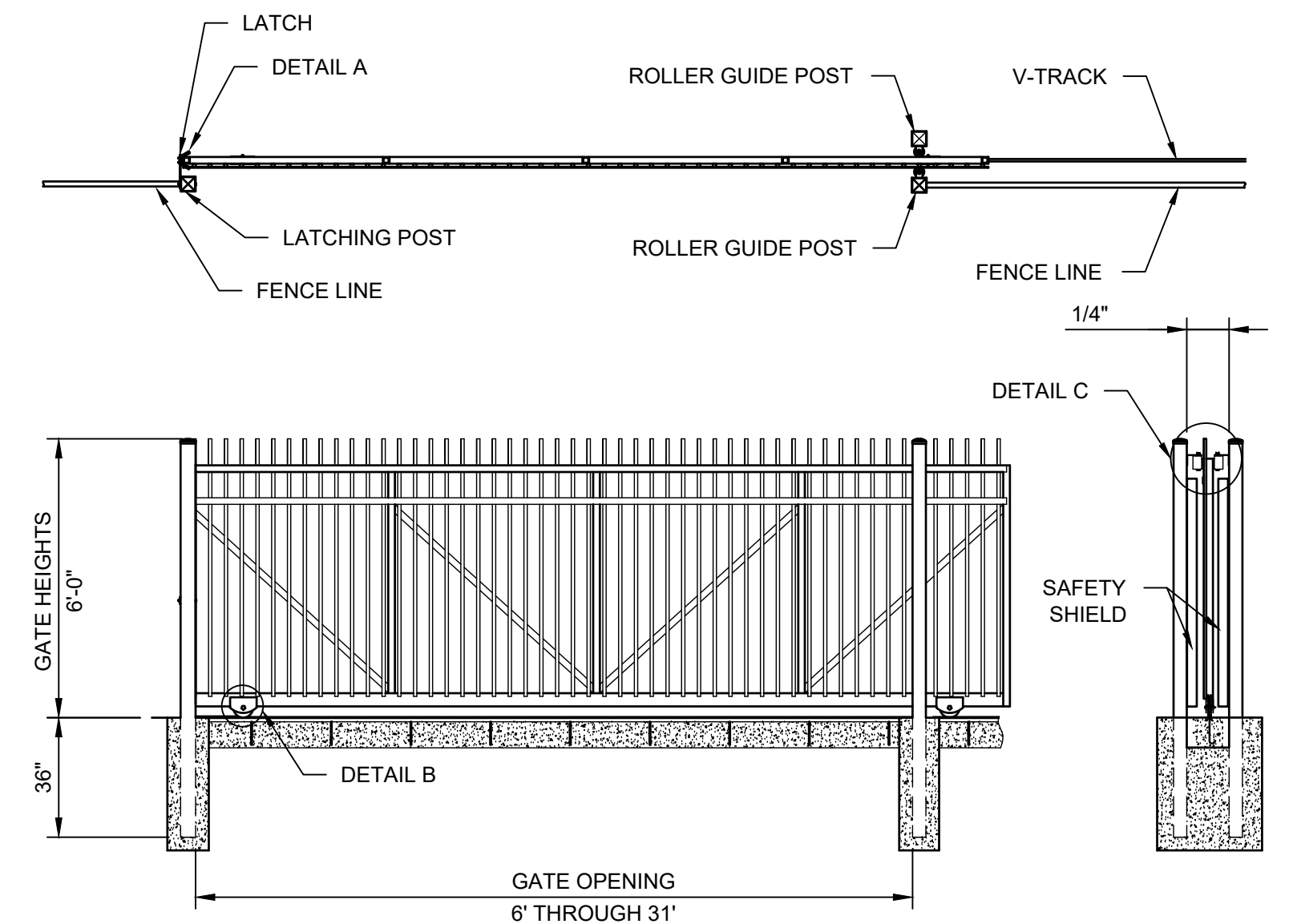
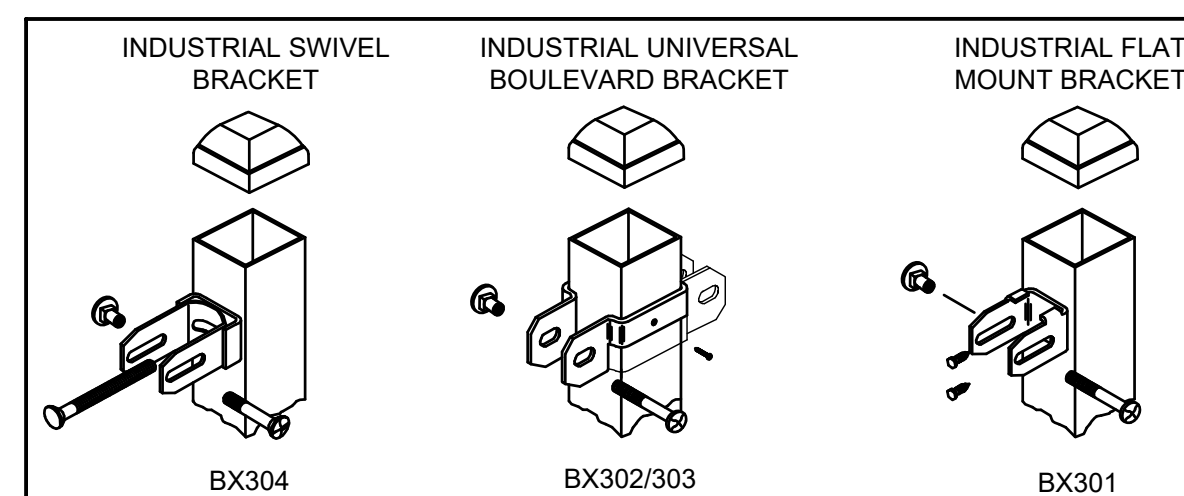
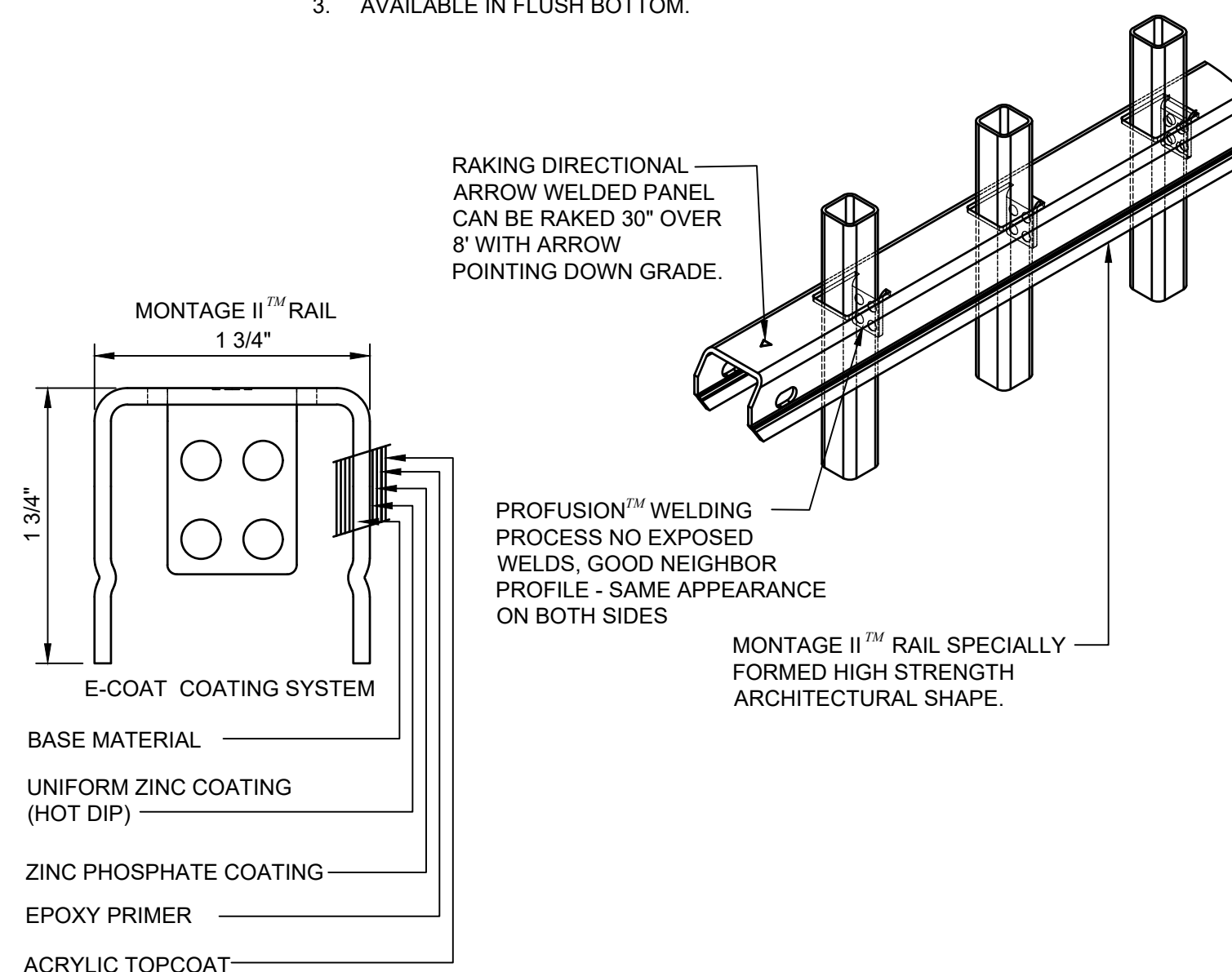
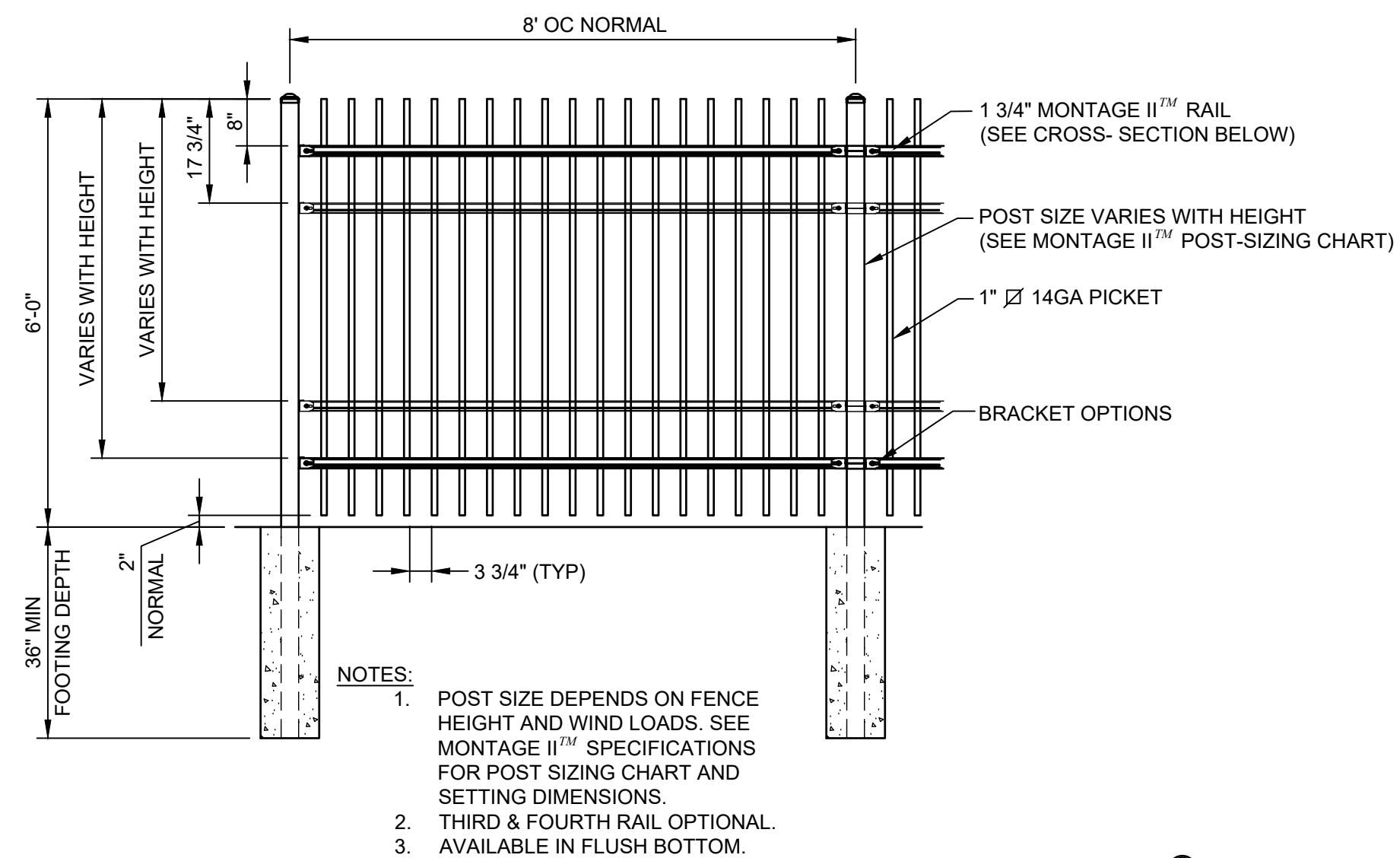
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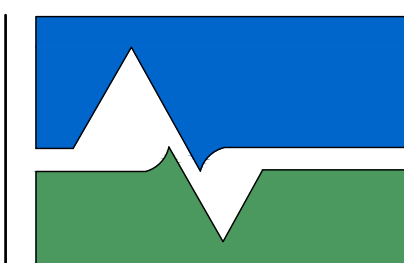
- ## NOTES

1. GRANULAR MATERIAL SHALL BE A MINIMUM OF 4-INCHES BELOW PIPE OR 1/4 PIPE DIAMETER, WHICHEVER IS GREATER.
2. STABILIZATION MATERIAL MAY BE REQUIRED TO REPLACE THE TOP 6-INCHES OF THE PIPE SUBGRADE. INSTALL GEOTEXTILE FABRIC BETWEEN THE STABILIZATION MATERIAL AND PIPE BEDDING.
3. TRENCH REQUIREMENTS WITHIN OPEN AREAS OR AREAS TO BE DEVELOPED SHALL BE PURSUANT TO DEPARTMENT STANDARDS.
4. WHERE THE SURROUNDING SOILS ARE EXPANSIVE AND WHERE SHOWN IN THE DETAIL, A FLOWABLE FILL (85-175 PSI STRENGTH) SHALL BE SUBSTITUTED FOR BACKFILL MATERIAL.

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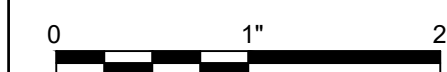
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**City of Loveland
Water & Power**

RAILROAD LIFT STATION

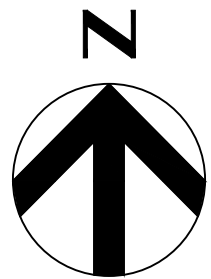
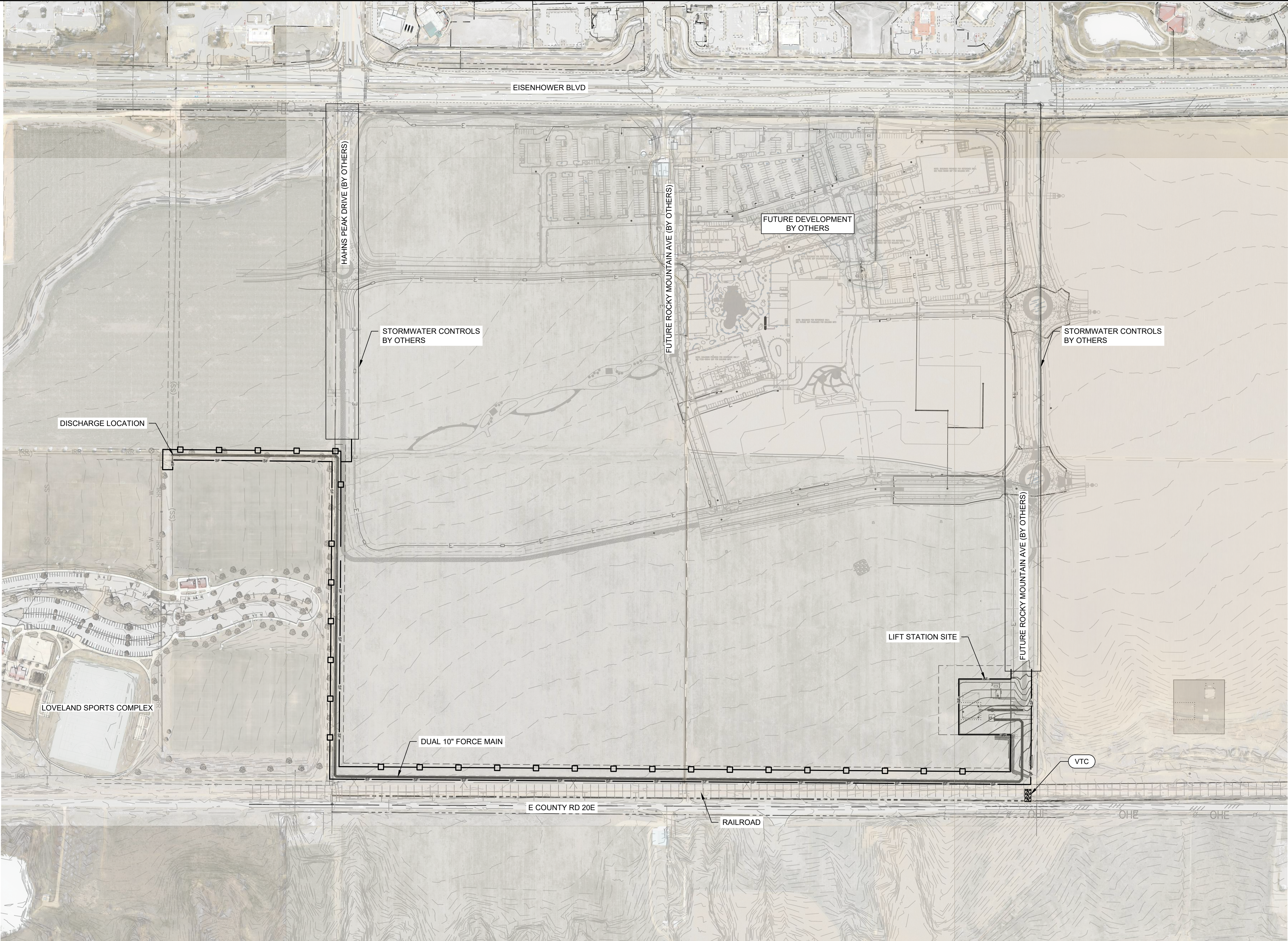
CIVIL UTILITIES AND SITE DETAILS 4



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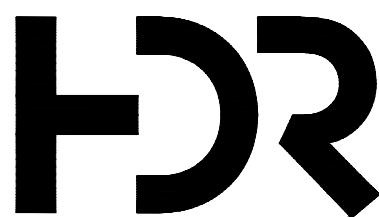
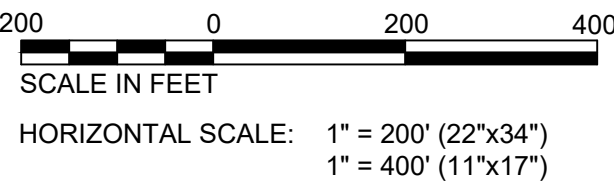


LEGEND

- CF CONSTRUCTION FENCE
- CWA CONCRETE WASHOUT AREA
- RL ROCK LOG /ROCK SOCK
- ECB EROSION CONTROL BLANKET
- SCL SEDIMENT CONTROL LOG
- SF SILT FENCE
- SSA STABILIZED STAGING AREA
- VTC VEHICLE TRACKING CONTROL
- DS EARTH DIKE/ DRAINAGE/ SWALE
- PS PERMANENT SEEDING
- ST SEDIMENT TRAP

- PERMANENT SEEDING

- NOTES:
- B. LIMITS OF CONSTRUCTION / DISTURBANCE IS DELINEATED BY SILT FENCE OR CONSTRUCTION FENCE ALONG CORRIDOR.
 - C. THIS UTILITY AND SMALL SITE WORK MAY OCCUR IN TANDEM WITH PRELIMINARY GRADING OPERATIONS ON THE MCWHINNEY DEVELOPMENT SITE (BY OTHERS). CONTROL MEASURES SHOWN ARE ONLY APPLICABLE TO UTILITY WORK WITHIN PIPELINE CORRIDOR. RRLS CONTRACTOR TO COORDINATE WITH DEVELOPMENT CONTRACTOR FOR CONSTRUCTION ACCESS ROUTES, CONTROL MEASURES, AND SURFACE STABILIZATION PRACTICES ON MCWHINNEY PARCEL.

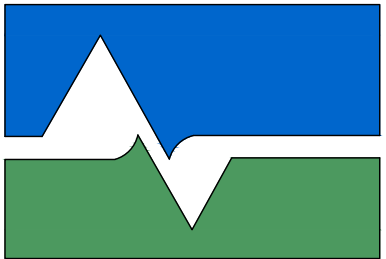


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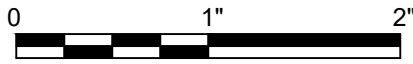
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OR
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

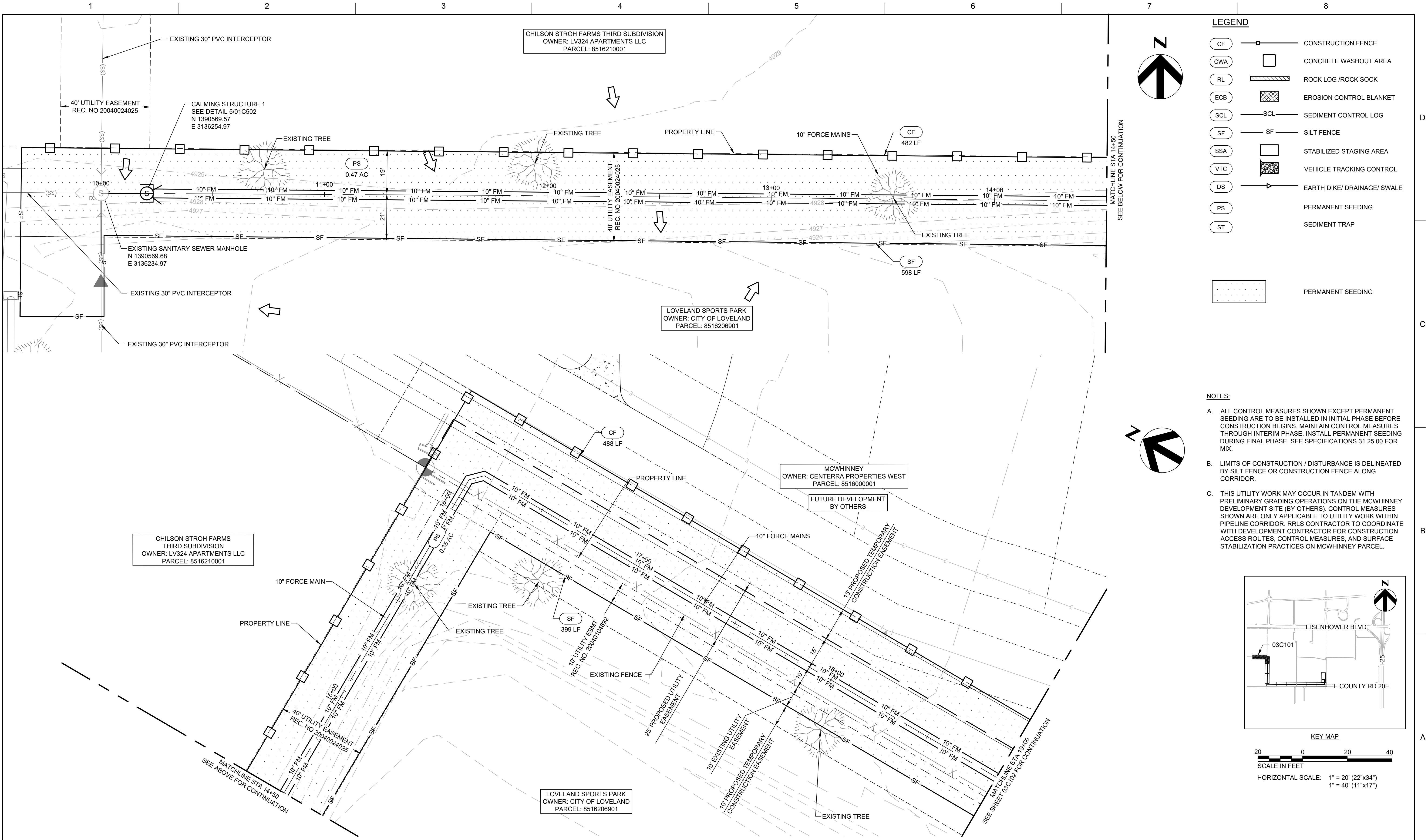
STORMWATER MANAGEMENT PLAN
OVERALLSITE PLAN



FILENAME	03C100
SCALE	AS NOTED

SHEET
03C100
Page 25 of 138

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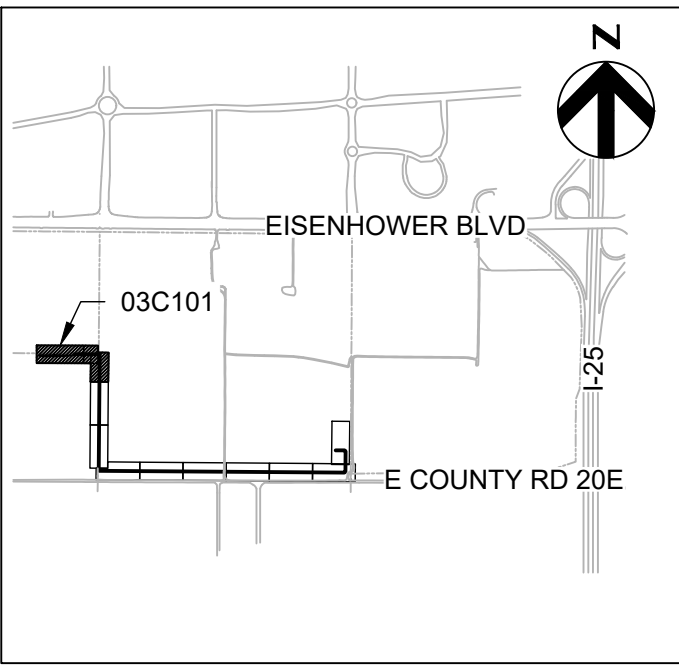
LEGEND

- CF CONSTRUCTION FENCE
- CWA CONCRETE WASHOUT AREA
- RL ROCK LOG /ROCK SOCK
- ECB EROSION CONTROL BLANKET
- SCL SEDIMENT CONTROL LOG
- SF SILT FENCE
- SSA STABILIZED STAGING AREA
- VTC VEHICLE TRACKING CONTROL
- DS EARTH DIKE/ DRAINAGE/ SWALE
- PS PERMANENT SEEDING
- ST SEDIMENT TRAP

PERMANENT SEEDING

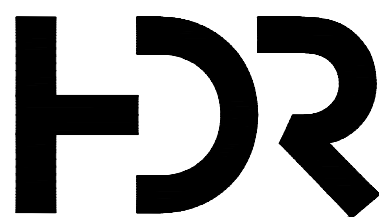
NOTES:

- ALL CONTROL MEASURES SHOWN EXCEPT PERMANENT SEEDING ARE TO BE INSTALLED IN INITIAL PHASE BEFORE CONSTRUCTION BEGINS. MAINTAIN CONTROL MEASURES THROUGH INTERIM PHASE. INSTALL PERMANENT SEEDING DURING FINAL PHASE. SEE SPECIFICATIONS 31 25 00 FOR MIX.
- LIMITS OF CONSTRUCTION / DISTURBANCE IS DELINEATED BY SILT FENCE OR CONSTRUCTION FENCE ALONG CORRIDOR.
- THIS UTILITY WORK MAY OCCUR IN TANDEM WITH PRELIMINARY GRADING OPERATIONS ON THE MCWHINNEY DEVELOPMENT SITE (BY OTHERS). CONTROL MEASURES SHOWN ARE ONLY APPLICABLE TO UTILITY WORK WITHIN PIPELINE CORRIDOR. RRLS CONTRACTOR TO COORDINATE WITH DEVELOPMENT CONTRACTOR FOR CONSTRUCTION ACCESS ROUTES, CONTROL MEASURES, AND SURFACE STABILIZATION PRACTICES ON MCWHINNEY PARCEL.



KEY MAP

20 0 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20' (22"x34")
1" = 40' (11"x17")



01/2026	100% DESIGN REVIEW
11/2025	90% DESIGN REVIEW
10/2023	50% DESIGN REVIEW

ISSUE DATE DESCRIPTION

PROJECT MANAGER STEVE T. POOL

PROJECT ENGINEER M. SABON

STRUCTURAL Z. NANEN

ARCHITECTURAL S. HEANEY

PROCESS M. SABON

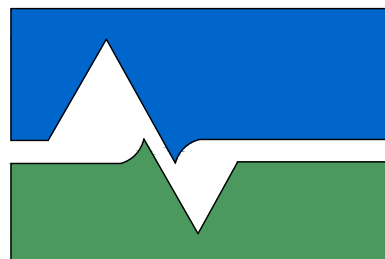
MECHANICAL K. CHAUDHARI

INSTRUMENTATION C. AUDIO

DRAWN BY J. ARCHULETA

PROJECT NUMBER 10368614

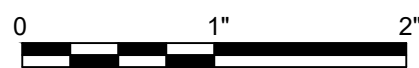
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

STORMWATER MANAGEMENT PLAN
FORCE MAIN
STA 10+00 TO STA 19+00



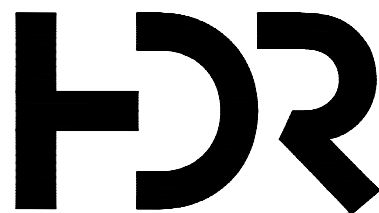
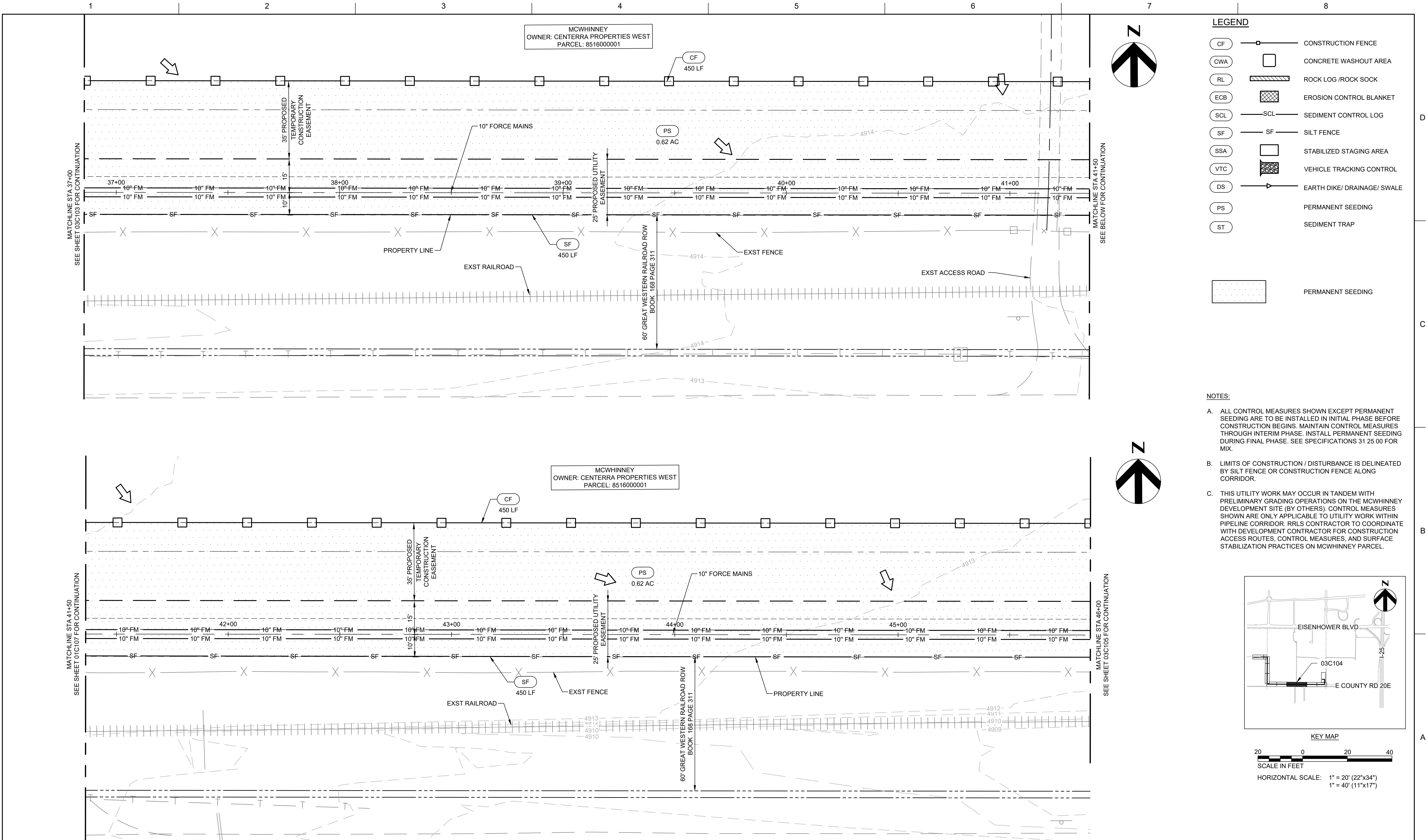
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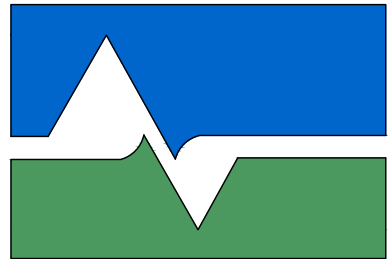


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INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

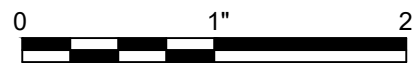
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

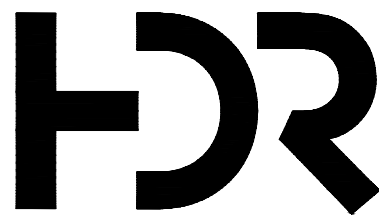
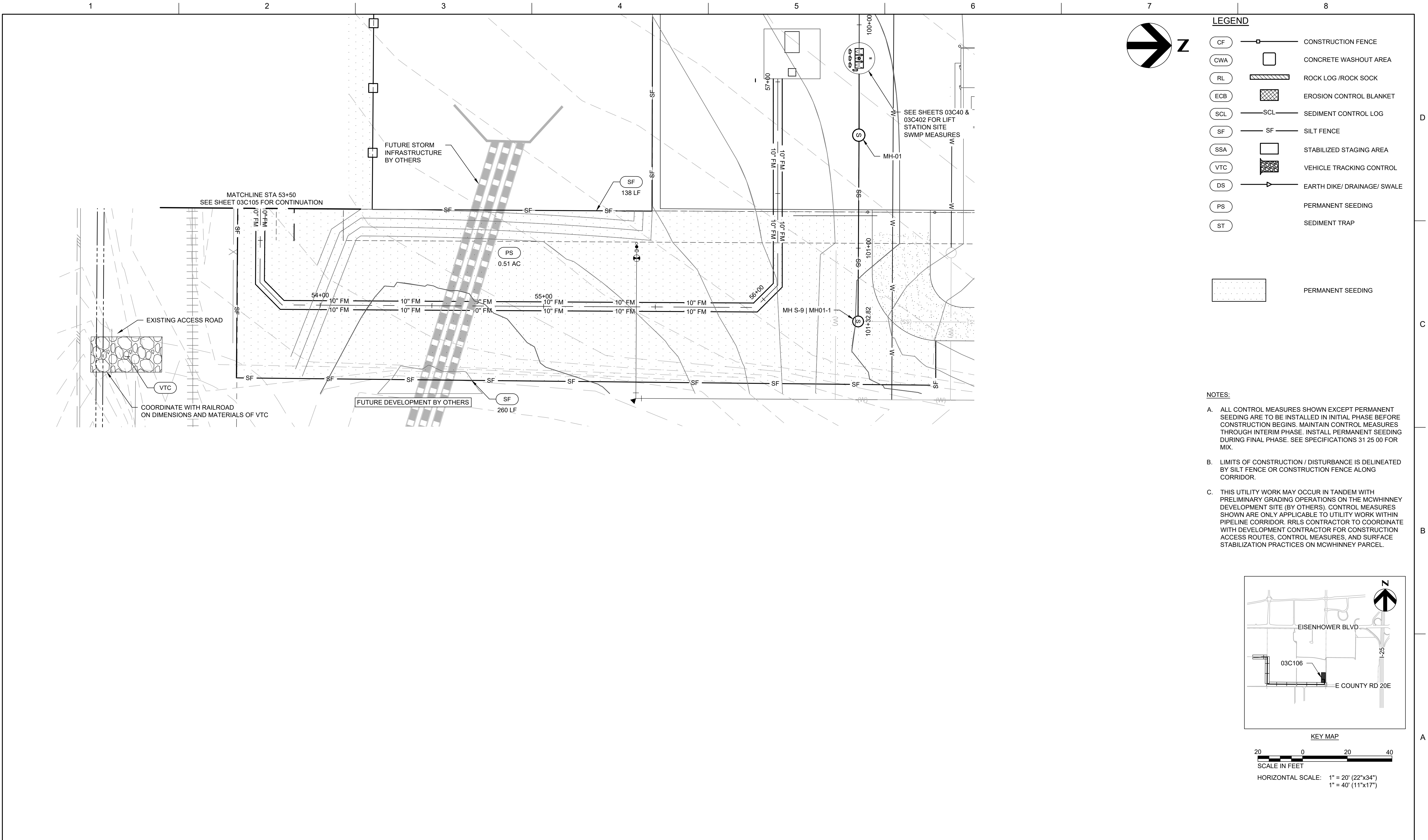
STORMWATER MANAGEMENT PLAN
FORCE MAIN
STA 37+00 TO STA 46+00



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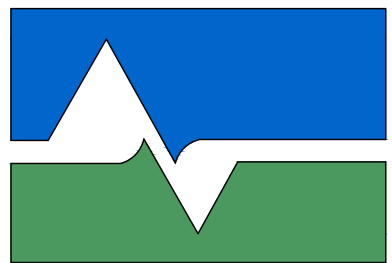
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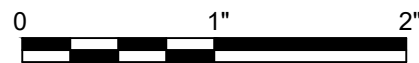
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OR
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

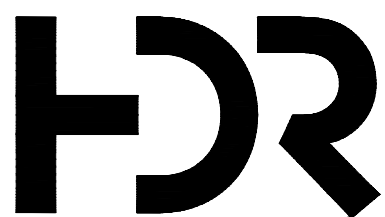
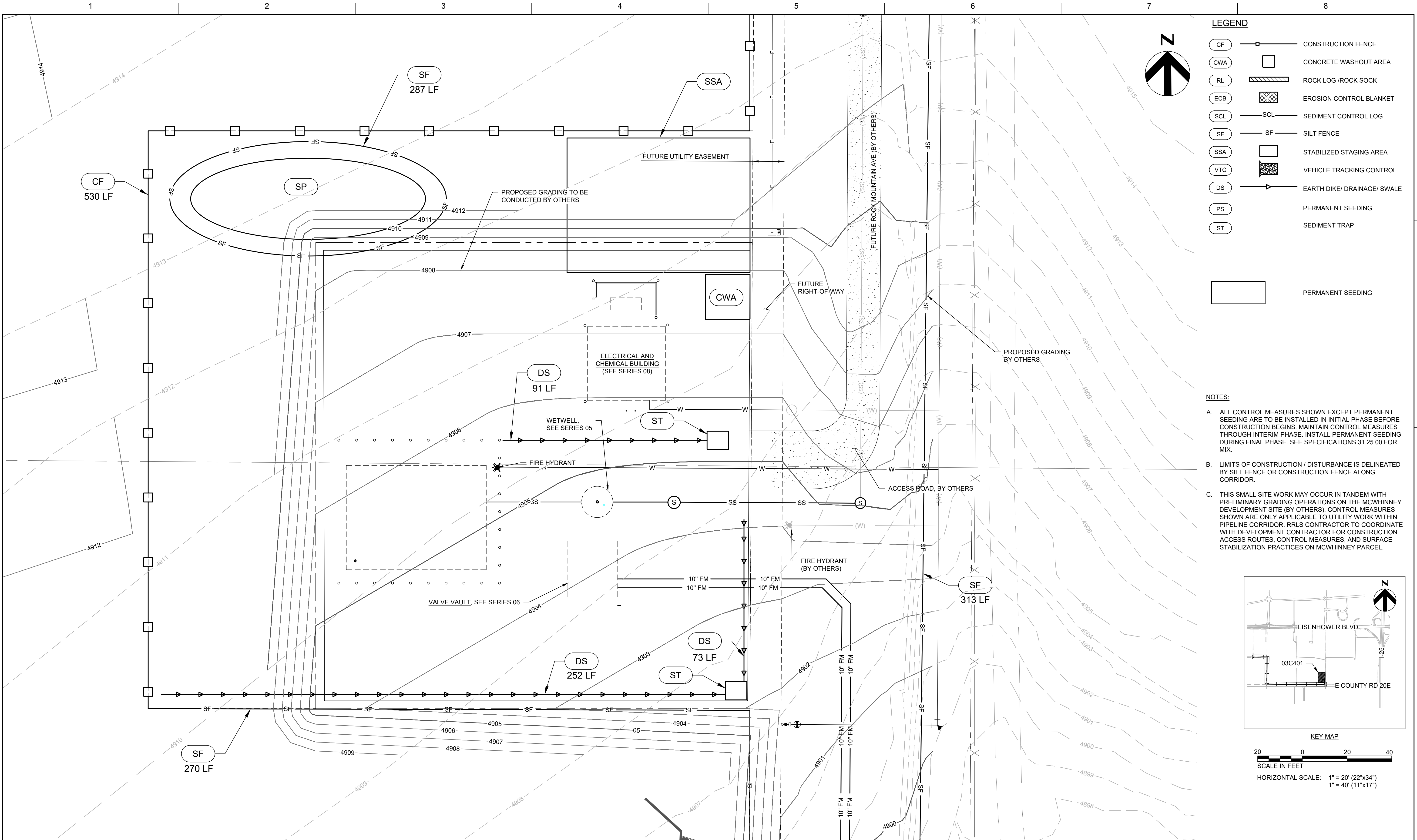
STORMWATER MANAGEMENT PLAN
FORCE MAIN
STA 53+50 TO STA 57+16



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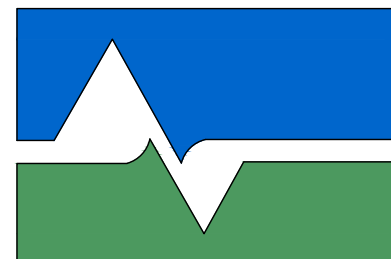


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PROJECT NUMBER	10368614

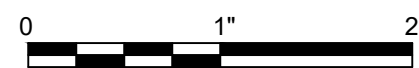
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OR
RECORDING



City of Loveland
Water & Power

RAILROAD
LIFT STATION

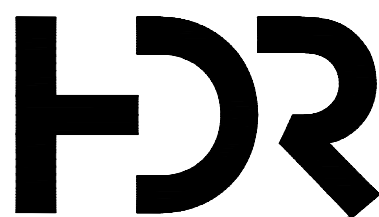
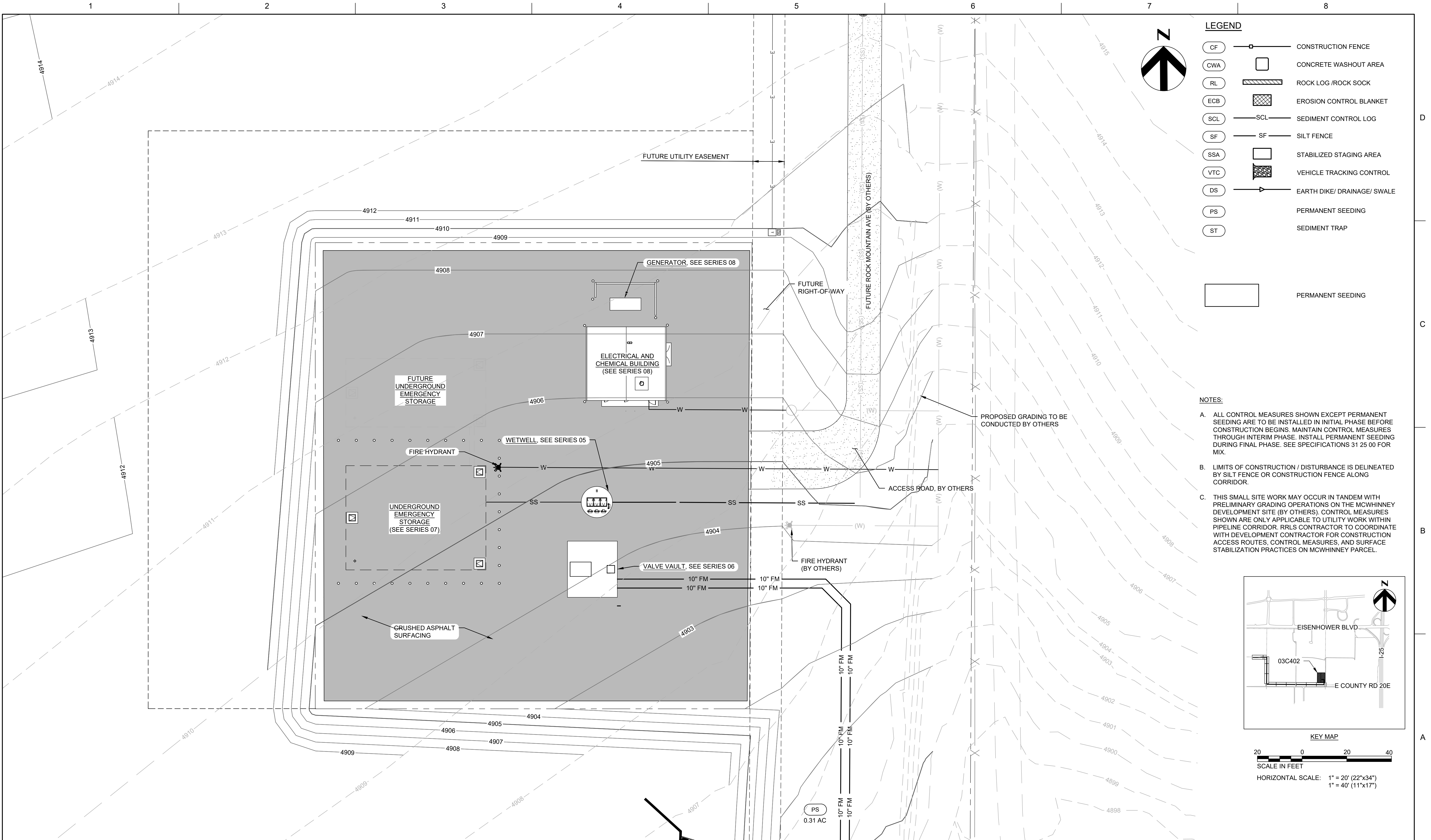
STORMWATER MANAGEMENT PLAN -
LIFT STATION SITE - INITIAL/INTERIM



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SCALE | AS NOTED

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03C401
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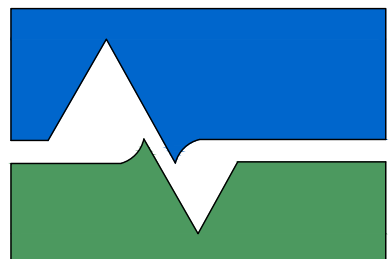
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DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

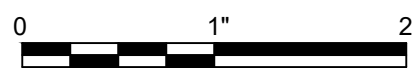
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CONSTRUCTION
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RECORDING



City of Loveland
Water & Power

RAILROAD
LIFT STATION

STORMWATER MANAGEMENT PLAN -
LIFT STATION SITE - FINAL



FILENAME | 03C402
SCALE | AS NOTED

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03C402
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SWMP DETAILS PROVIDED ON THIS SHEET ARE SHOWN AS MINIMUM
BMP REQUIREMENTS THE CONTRACTOR SHALL USE. CONTRACTOR
SHALL ABIDE BY AND FOLLOW SWMP REQUIREMENTS FOR THE
LOCAL JURISDICTION HAVING AUTHORITY.



1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF FENCE.
2. CONSTRUCTION FENCE INDICATED ON INITIAL SWMP PLAN SHALL BE INSTALLED PRIOR TO OTHER BMPs AND ANY LAND-DISTURBING ACTIVITIES.
3. STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. MAXIMUM SPACING FOR TEE POSTS SHALL BE 10'.

1. ANY DAMAGED FENCE SHALL BE REPAIRED ON A DAILY BASIS.
2. FENCE SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE GOVERNING AGENCY.



1. SEE PLAN VIEW FOR LOCATIONS OF CONCRETE WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE GOVERNING AGENCY.
4. THE SWMP MANAGER SHALL PERFORM INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION AND MAKE REPAIRS AS NECESSARY.

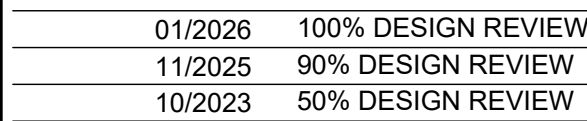


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3. ROCK LOG SHALL BE USED AS CURB SIDE CHECK DAMS ON LONG CONTINUOUS GRADES IN THE FLOWLINE UPSTREAM OF CURB INLETS TO FILTER SEDIMENT LADEN RUNOFF AND REDUCE THE FLOW VELOCITY. TYPICAL INSTALLATION OF A SERIES OF ROCK LOGS. THE SPACING AND QUANTITY OF THE ROCK LOGS SHALL BE DETERMINED BE THE LENGTH AND GRADE OF THE CURB DRAINAGE FLOWLINE AS DETERMINED BY THE ENGINEER.
2. ADDITIONAL ROCK LOGS MAY BE REQUIRED ON THE DESIGN PLANS OR DURING CONSTRUCTION AS DIRECTED BY GOVERNING AGENCY AND/OR AUTHORIZED AGENT.
3. ROCK LOGS AT DOWNSTREAM PROJECT LIMITS SHALL BE BEGINNING AT THE FURTHEST DOWNSTREAM LIMITS AND THE QUANTITY SHALL BE A MINIMUM OF TWO ROCK LOGS. ADDITIONAL LOGS ME BE REQUIRED BE THE DESIGN ENGINEER AND/OR GOVERNING AGENCY BASED ON GRADE OF ROADWAY AND VELOCITY OF FLOW AT THE PROJECT LIMITS.
4. INTERIM CONFIGURATION OF ROCK LOGS IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING CURBS. ROCK LOGS (AFTER PAVEMENT) SHALL BE INSTALLED WITHIN 48-HOURS AFTER PAVING IS PLACED.
5. CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION (1-1/2" MINUS). RECYCLE CONCRETE MEETING THIS GRADATION MAY BE USED.
6. THE ENGINEER MAY SPECIFY EITHER WIRE MESH OR WOVEN POLYPROPYLENE GEOTEXTILE FABRIC FOR THE OUTER SHELL OF THE ROCK LOG.
7. WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0-INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
8. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND A 2-INCH CENTERS ON ENDS OF BERM.
9. REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE.
10. TUBULAR MARKERS SHALL MEET REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED.
11. THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB.
12. CONCRETE CINDER BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.

1. THE SWMP MANAGER SHALL PERFORM INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION AND MAKE REPAIRS AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF ROCK LOG SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF ROCK BERM IS WITHIN 2-1/2" INCHES OF THE CREST.
3. CURB PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS GOVERNING AGENCY APPROVES EARLIER REMOVAL OF CURB PROTECTION IN STREETS.

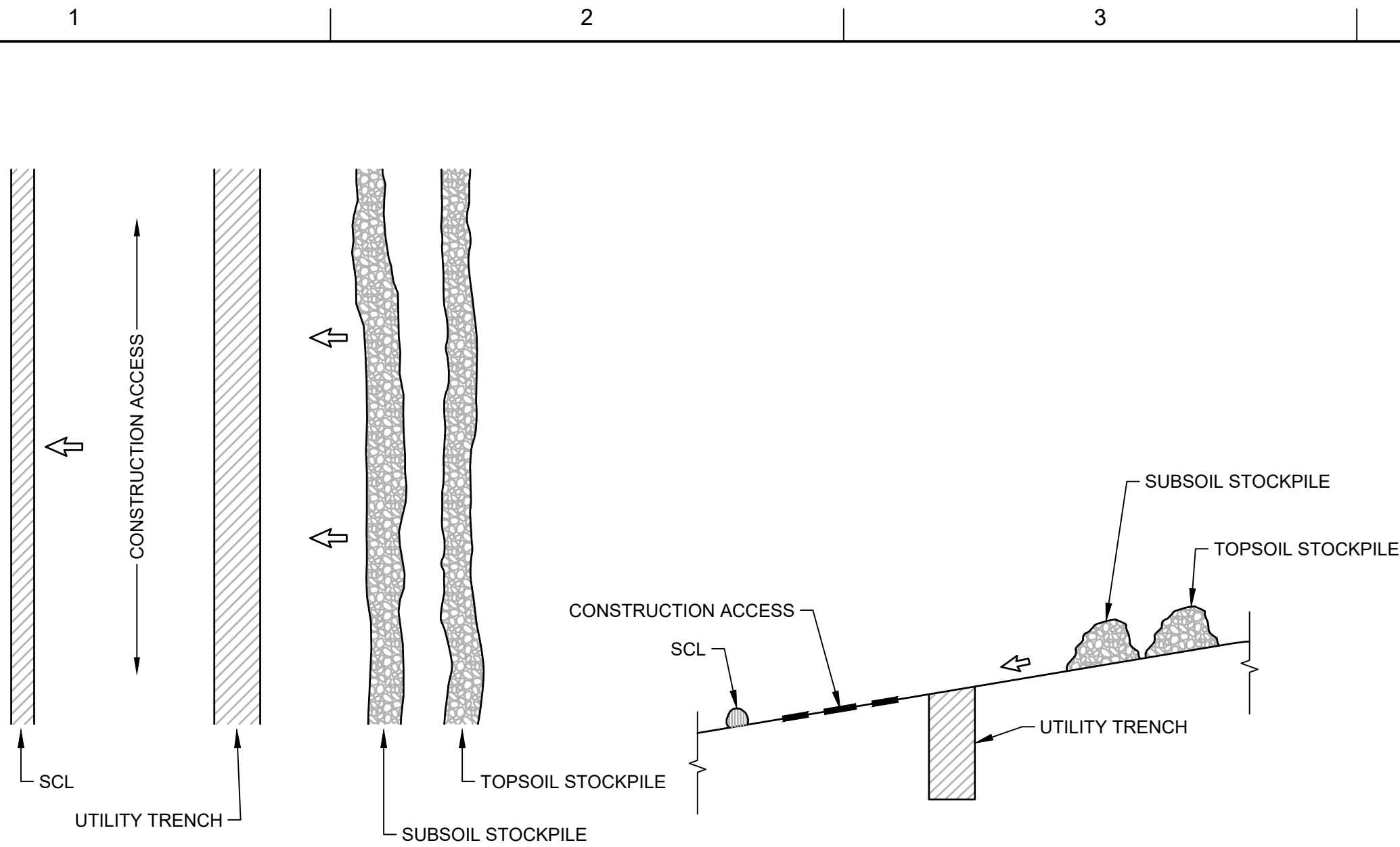


ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

SHEET
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Page 34 of 138

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PLAN

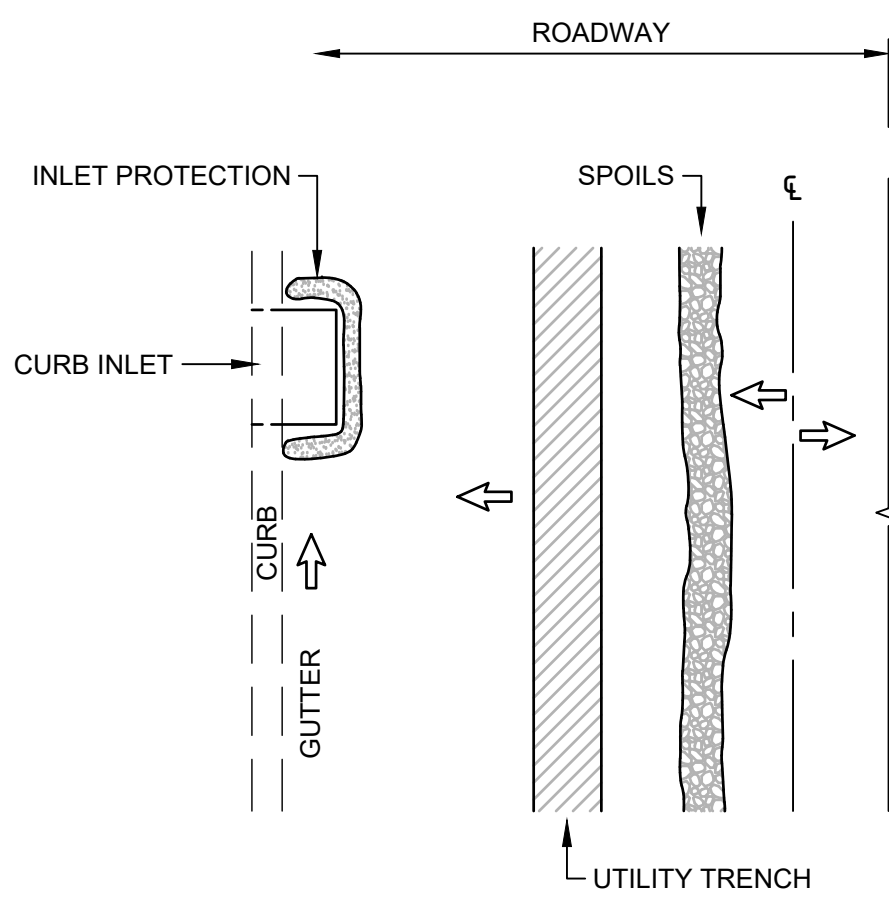
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*CONSTRUCTION ACCESS AND STOCKPILE LOCATIONS MAY BE SWITCHED

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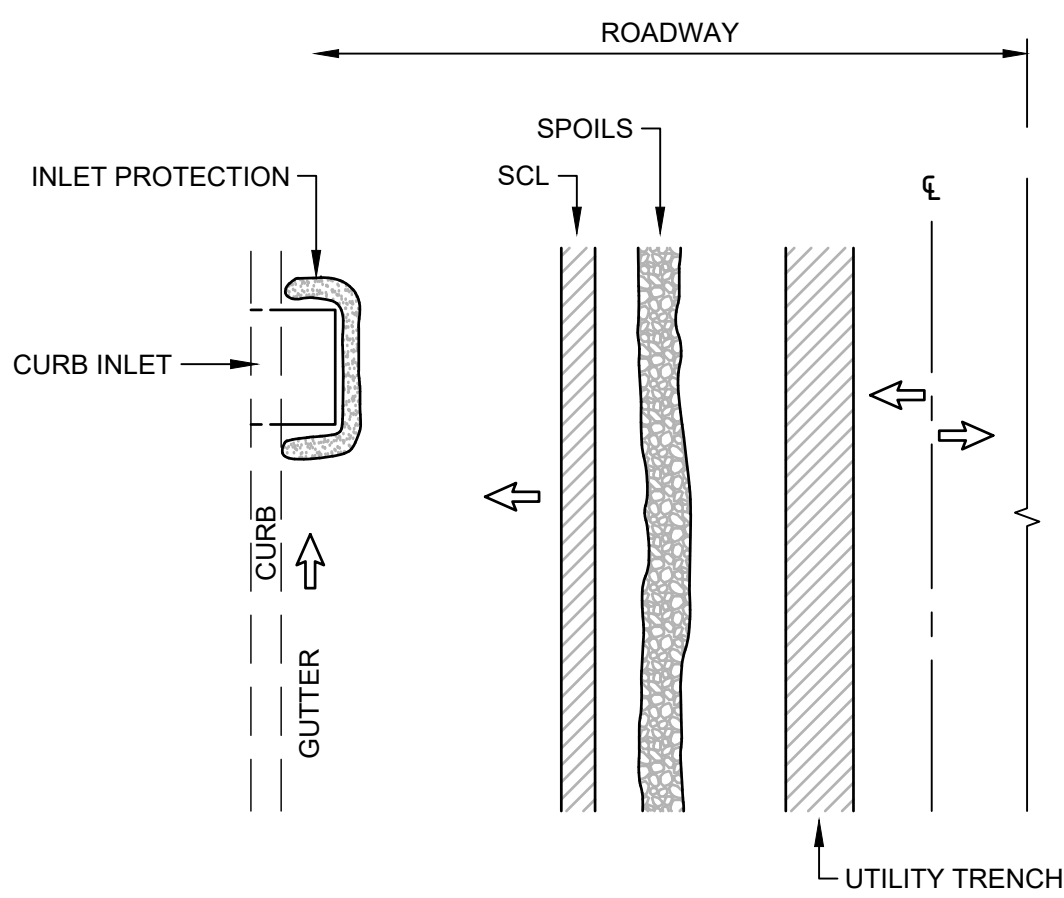
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*CONSTRUCTION ACCESS AND STOCKPILE LOCATIONS MAY BE SWITCHED



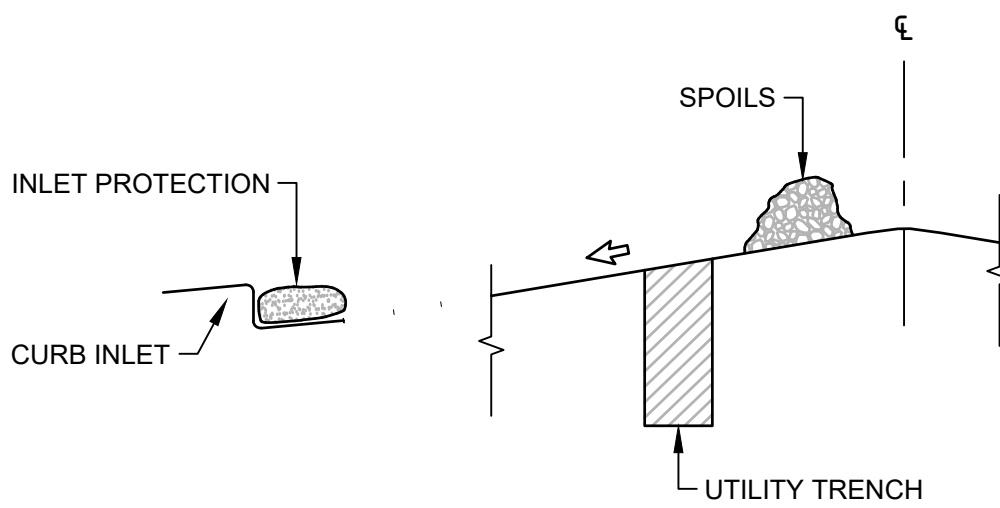
PLAN VIEW, UP-GRADIENT SPOILS

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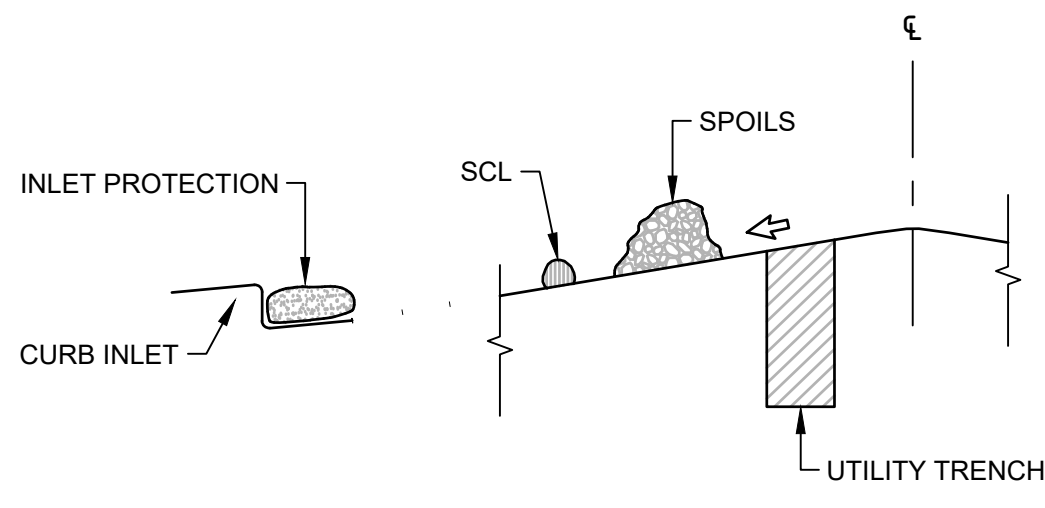
PLAN VIEW, DOWN-GRADIENT SPOILS

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CROSS SECTION, UP-GRADIENT SPOILS

NOT TO SCALE



CROSS SECTION, DOWN-GRADIENT SPOILS

NOT TO SCALE

DESCRIPTION

CONTROL MEASURE(S) (CM) FOR OPEN TRENCHING WITHIN AN UNPAVED SURFACE. THIS MAY BE A DIRT, UNVEGETATED OPEN AREA OR DIRT AND GRAVEL MIXED AREA TO BE RESTORED TO DIRT OR VEGETATED AREA.

DESIGN AND INSTALLATION

1. INSTALL DOWN-GRADIENT CMs PRIOR TO CONSTRUCTION AT THE SITE. ABOVE GROUND VEGETATION MAY BE CLEARED PRIOR TO CM INSTALLATION.
2. EXCAVATE BY DOUBLE DITCH METHODS SEPARATING TOPSOIL FROM SUBSOIL AND PLACING IN TWO BERMS ALONG TRENCH.
3. IF SPOILS ARE TO BE PLACED UP-GRADIENT OF TRENCH, TRENCH ACTS AS DOWN-GRADIENT CM. DOWN-GRADIENT LINEAR CMs ARE REQUIRED FOR ACCESS DISTURBANCES.
4. CONSTRUCTION ACCESS AND SPOIL BERMS AND CONSTRUCTION ACCESS TO BE LOCATED ON OPPOSITE SIDES OF THE TRENCH SHOWN UNLESS CONDITIONS RENDER IMPOSSIBLE TO DO SO.
5. TRENCH TO BE BACKFILLED WITH TOPSOIL PLACED LAST AND SURFACE ROUGHENED IN ANTICIPATION OF SEED AND MULCH APPLICATION, UNLESS RESTORATION INCLUDES RETURNING TO DIRT OR GRAVEL AREA.
6. DOWN-GRADIENT CMs MAY BE REMOVED ONCE SURFACE ROUGHENING HAS OCCURRED AND PRIOR TO SEED AND MULCH UNLESS SIDE-SLOPES ALLOW EROSION OF EXPOSED/ SURFACE ROUGHENED SOIL.

MAINTENANCE

MAINTAIN CMs PER SCL OF APPROPRIATE CM TYPE.

ADDITIONAL NOTES

REVIEW LOCAL JURISDICTION REQUIREMENTS FOR CM TYPES AND INSTALLATION METHODS.

DESCRIPTION

CONTROL MEASURE(S) (CM) FOR OPEN TRENCHING WITHIN AN UNPAVED SURFACE. THIS MAY BE A DIRT, UNVEGETATED OPEN AREA OR DIRT AND GRAVEL MIXED AREA TO BE RESTORED TO DIRT OR VEGETATED AREA.

DESIGN AND INSTALLATION

1. INSTALL DOWN-GRADIENT INLET PROTECTION AND GUTTER CMs PRIOR TO SAW CUTTING, PAVEMENT CUTS AND EXCAVATION SPOILS ARE RECOMMENDED TO BE IMMEDIATELY REMOVED FOR OFF-SITE DISPOSAL. IN THIS EVENT, NO DOWN-GRADIENT LINEAR CM IS REQUIRED. ROCK LOG (OR LIKE) IN GUTTER AND INLET PROTECTION IS STILL REQUIRED.
2. IF CUT AND EXCAVATION SPOILS ARE NOT IMMEDIATELY HAULED OFF-SITE, PLACE SPOIL PILE UP-GRADIENT OF TRENCH AS PRACTICABLE. TRENCH ACTS AS DOWN-GRADIENT CM.
3. IF SPOILS ARE TO BE PLACED DOWN-GRADIENT OF TRENCH, INSTALL WEIGHTED SEDIMENT CONTROL LOG BETWEEN SPOILS AND GUTTER.
4. INLET PROTECTION AND GUTTER CMs SHOULD BE INSTALLED DOWN-GRADIENT OF CONSTRUCTION ON BOTH SIDES OF ROAD IN AREAS WHERE THE CONSTRUCTION ACTIVITY EXTENDS TO BOTH SIDES OF THE ROAD CROWN.
5. BACKFILL WITH FLOWABLE FILL REQUIRE A CONCRETE WASHOUT WHEREVER WASHOUT OCCURS.
6. SITE IS STABILIZED UPON PATCH/RESTORATION OF PAVEMENT AT WHICH TIME CMs MAY BE REMOVED.

MAINTENANCE

MAINTAIN CMs PER SCL OF APPROPRIATE CM TYPE.

ADDITIONAL NOTES

REVIEW LOCAL JURISDICTION REQUIREMENTS FOR CM TYPES AND INSTALLATION METHODS.

UNPAVED/VEGETATED AREA

NOT TO SCALE

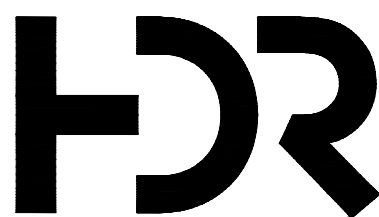
PAVED AREA WITH CURB/GUTTER

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TO JURISDICTION REVIEWER - DETAIL NOTES:

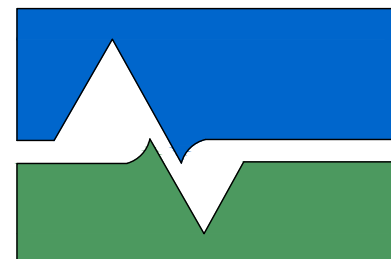
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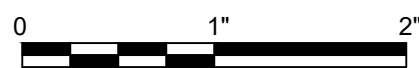
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City of Loveland
Water & Power

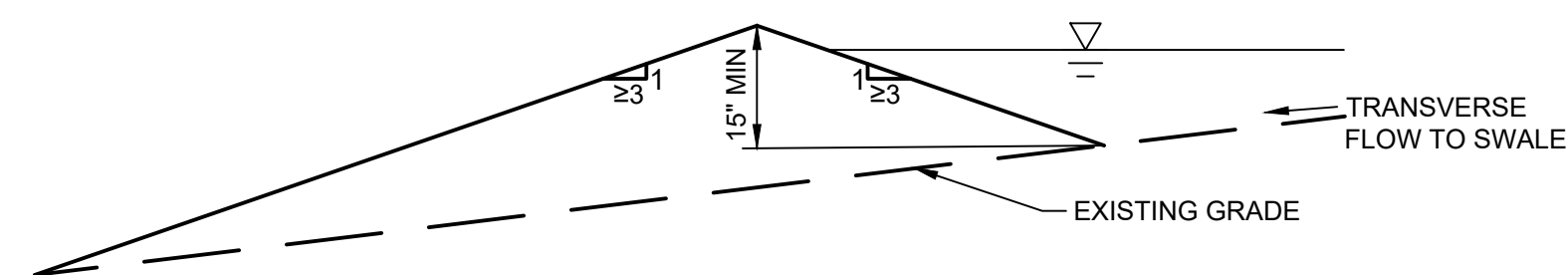
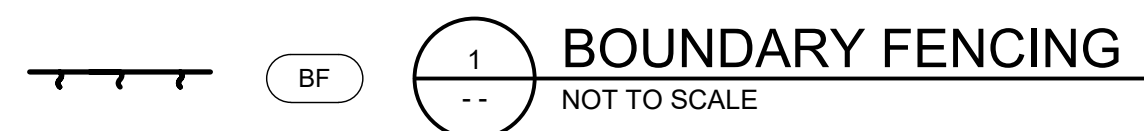
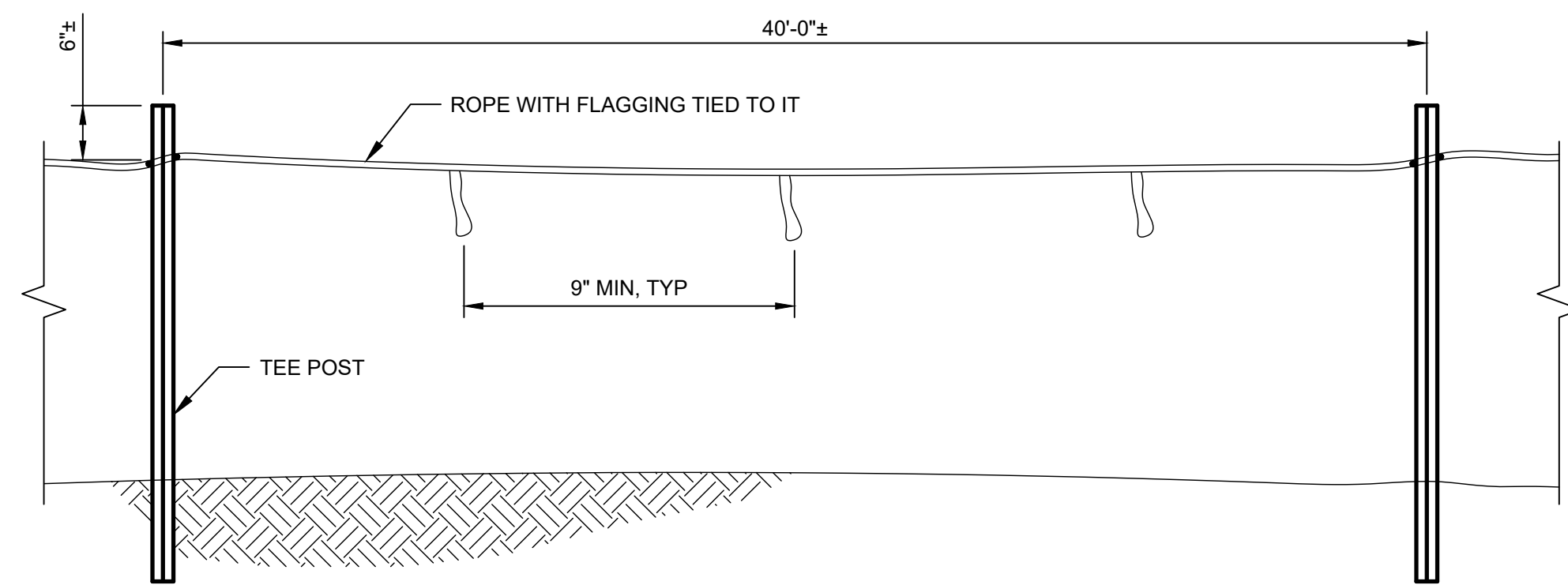
RAILROAD
LIFT STATION

STORMWATER MANAGEMENT PLAN
DETAILS
SITE CIVIL

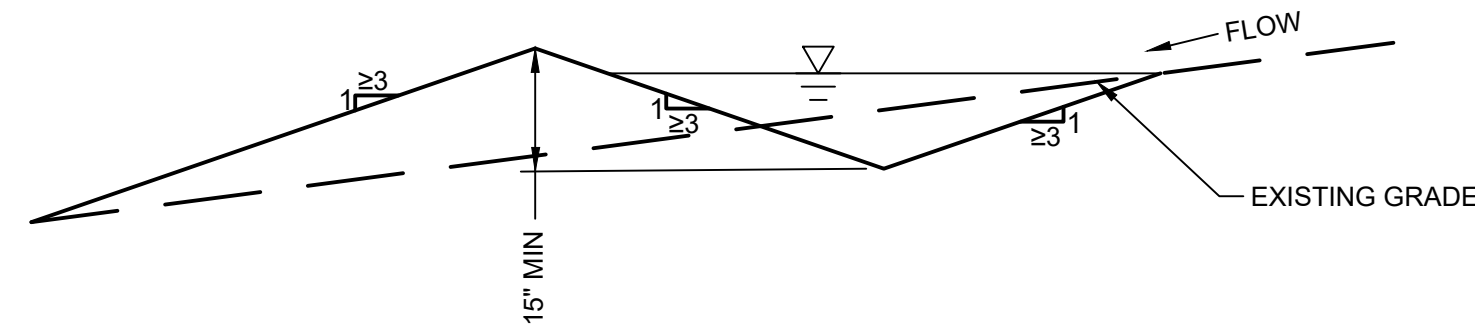


FILENAME | 03C504
SCALE | AS NOTED

SHEET
03C504
Page 37 of 138

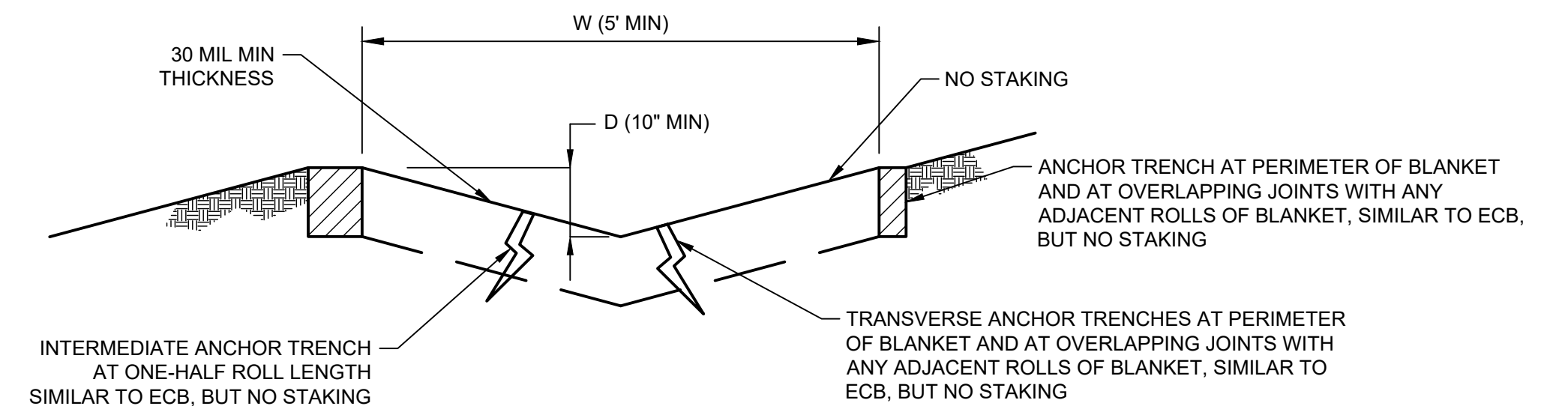
ED-1, COMPACTED UNLINED
EARTH DIKE FORMED BY BERM

NOT TO SCALE



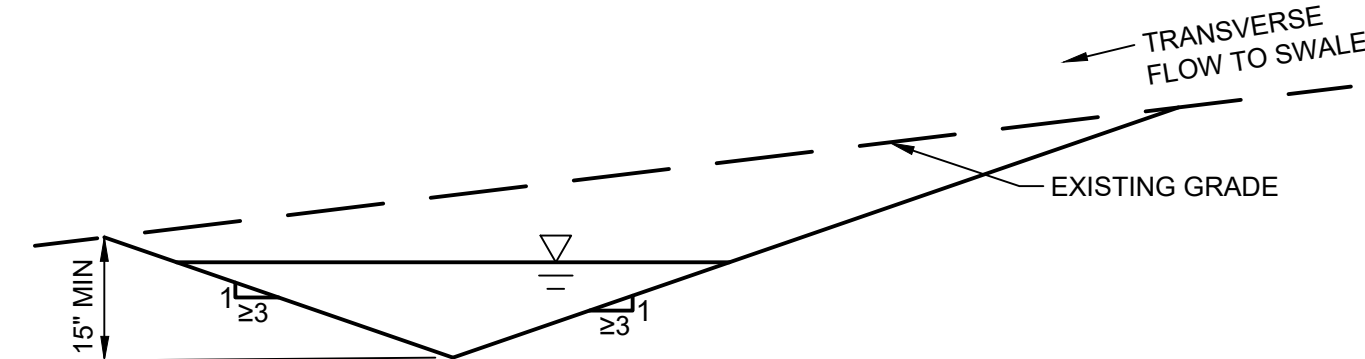
DS-1, COMPACTED UNLINED
SWALE FORMED BY CUT AND FILL

NOT TO SCALE



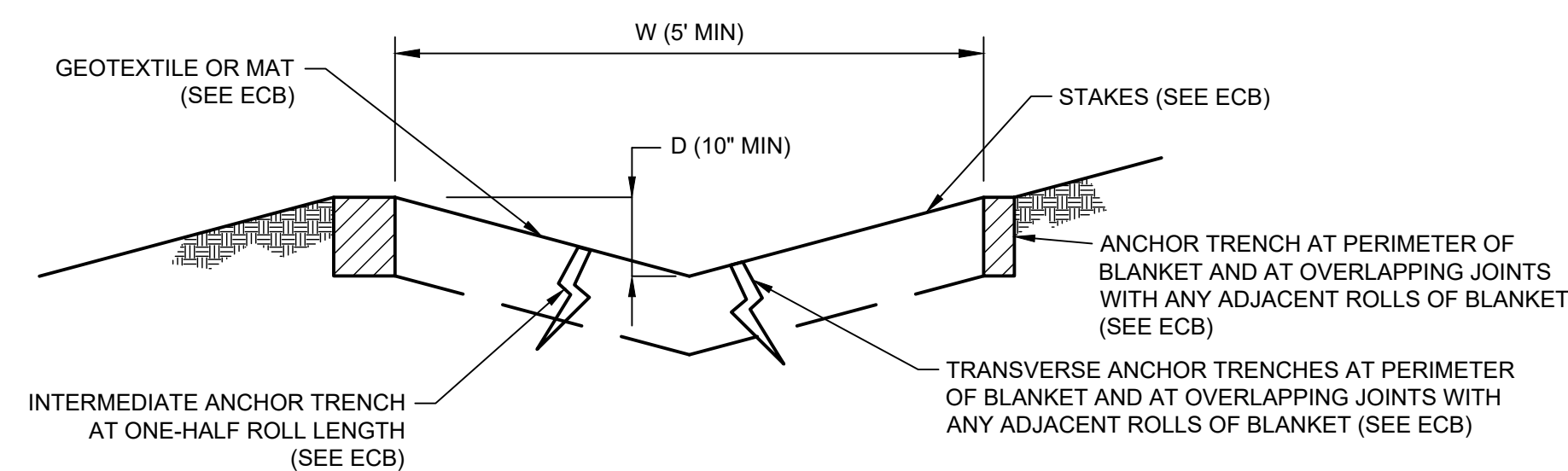
DS-4, SYNTHETIC LINED SWALE

NOT TO SCALE



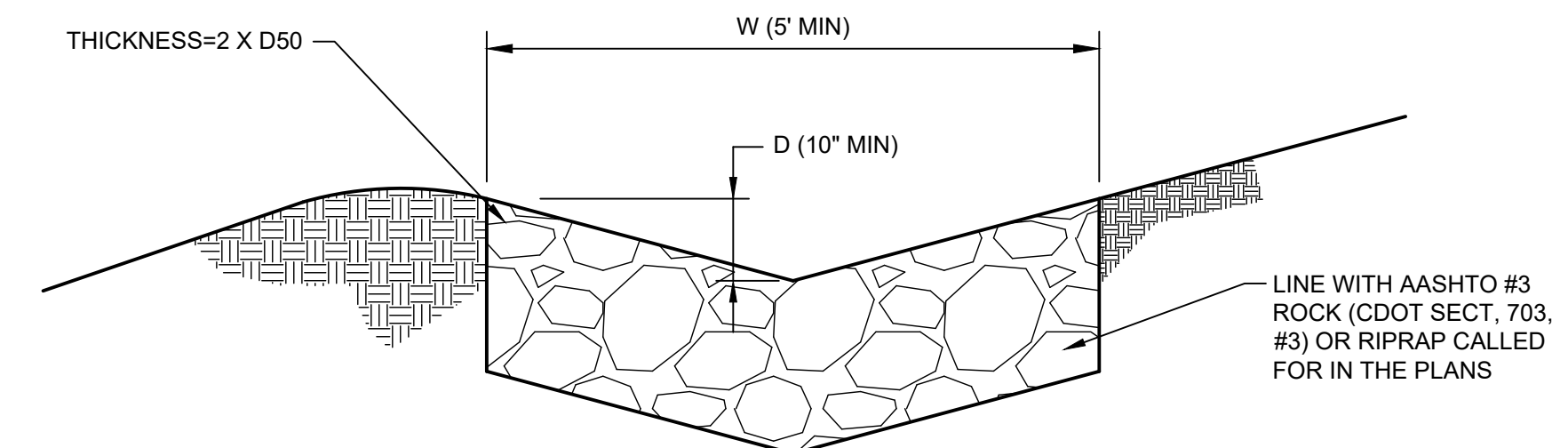
DS-1, COMPACTED UNLINED
SWALE FORMED BY CUT AND FILL

NOT TO SCALE



DS-3, ECB LINED SWALE (CUT AND FILL OR BERM)

NOT TO SCALE



DS-5, RIP RAP LINED SWALE

NOT TO SCALE

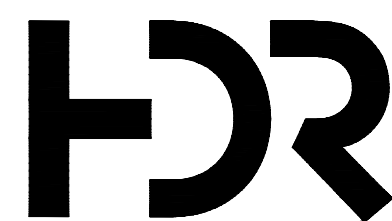


TEMPORARY EARTH DIKES AND DRAINAGE SWALES

NOT TO SCALE

TO JURISDICTION REVIEWER - DETAIL NOTES:

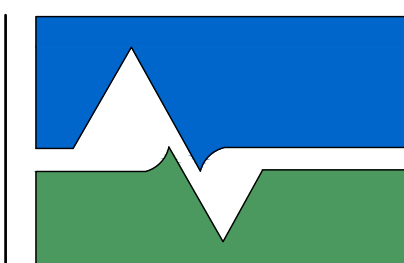
SWMP DETAILS PROVIDED ON THIS SHEET ARE SHOWN AS MINIMUM BMP REQUIREMENTS THE CONTRACTOR SHALL USE. CONTRACTOR SHALL ABIDE BY AND FOLLOW SWMP REQUIREMENTS FOR THE LOCAL JURISDICTION HAVING AUTHORITY.



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	11/2025	90% DESIGN REVIEW
	10/2023	50% DESIGN REVIEW
ISSUE	DATE	DESCRIPTION

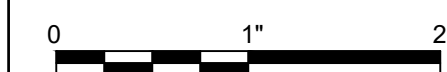
PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

**NOT FOR
CONSTRUCTION
OR
RECORDING**

City of Loveland
Water & Power

RAILROAD LIFT STATION

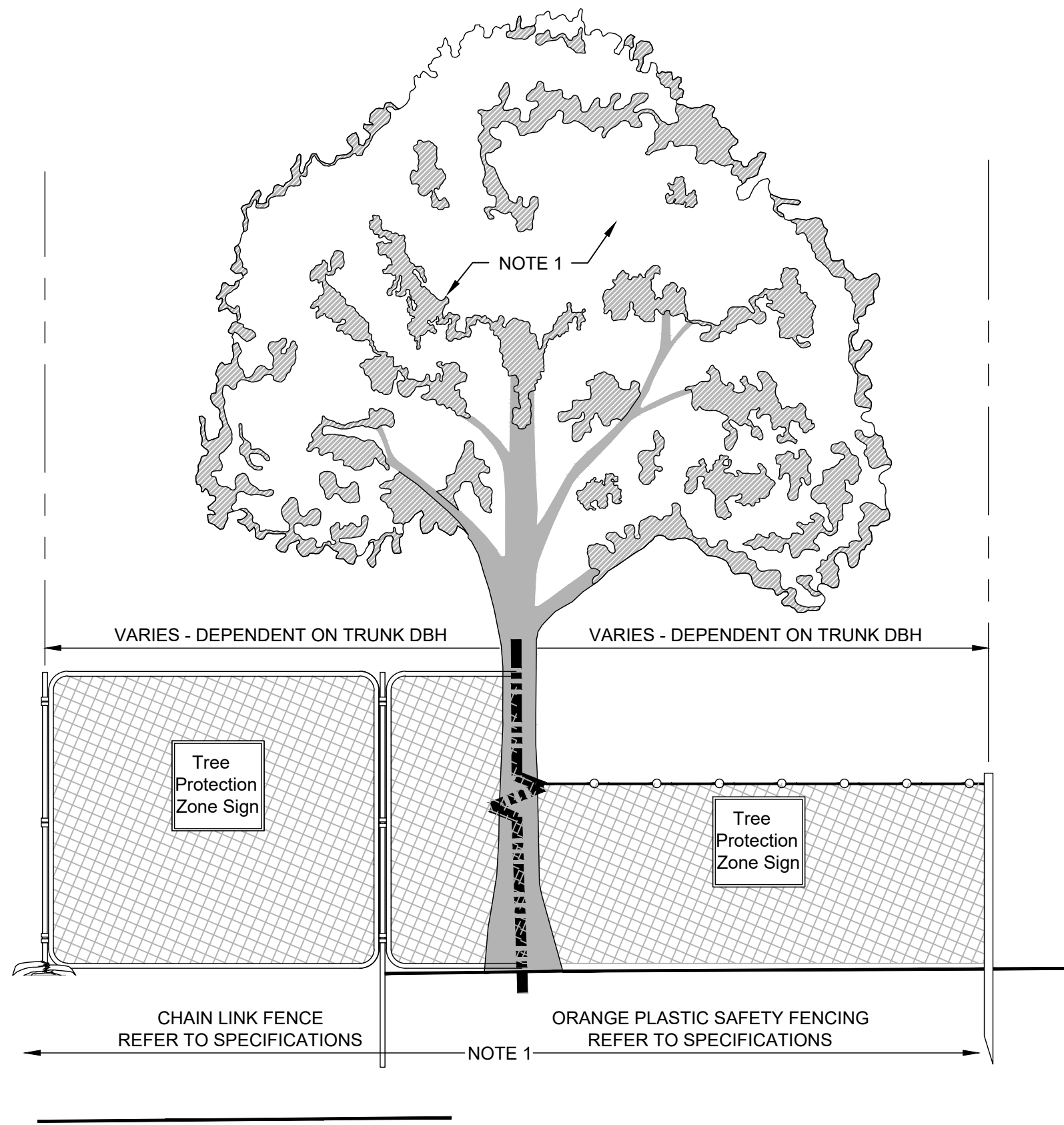
STORMWATER MANAGEMENT PLAN DETAILS SITE CIVIL



FILENAME	03C505
SCALE	AS NOTED

03C505
Page 38 of 138

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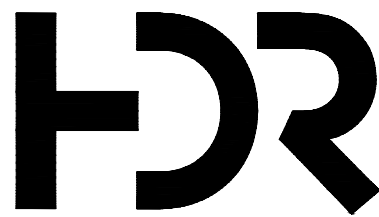
NOTES

1. TREE PROTECTION ZONE (TPZ): SHALL BE EQUAL TO EIGHTEEN INCHES (18") RADIALLY FROM THE TREE FOR EVERY ONE INCH (1") OF TRUNK DIAMETER AT BREAST HEIGHT (DBH = FOUR FEET SIX INCHES (46") ABOVE SOIL LINE).
 - A. REFER TO THE MILE HIGH FLOOD DISTRICT CONTROL MEASURE PROTECTION OF EXISTING VEGETATION FACT SHEET. THIS GUIDANCE SHALL BE FOLLOWED THROUGHOUT THE DURATION OF THE PROJECT.
 - B. TREE PROTECTION FENCING AT LEAST 4-FEET IN HEIGHT MUST BE IN PLACE PRIOR TO COMMENCEMENT OF WORK. ONCE INSTALLED, TREE PROTECTION ZONE SHALL NOT BE REDUCED, ALTERED OR REMOVED AT ANY TIME UNTIL COMPLETION OF THE PROJECT.
 - C. PLACE AND MAINTAIN A LAYER OF MULCH 4 TO 6-INCHES THICK FROM THE TREE TRUCK TO THE FENCING, KEEPING A 6-INCH SPACE BETWEEN THE MULCH SAND THE TRUNK.
 - D. LIMIT ACCESS WITHIN TREE PROTECTION ZONE AND DO NOT ALLOW ANY TRAFFIC, EQUIPMENT TO BE STORED, CHEMICALS TO BE DUMPED, OR CONSTRUCTION ACTIVITIES TO OCCUR WITHIN ZONE.
 - E. WATERING IS RESPONSIBILITY OF THE CONTRACTOR.
 - F. IF DAMAGED OCCURS TO A TREE, CONSULT A LICENSED ARBORIST FOR GUIDANCE.

1 TREE PROTECTION ZONE FENCING DETAIL
-- NOT TO SCALE

TO JURISDICTION REVIEWER - DETAIL NOTES:

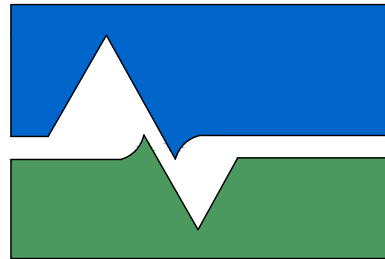
SWMP DETAILS PROVIDED ON THIS SHEET ARE SHOWN AS MINIMUM BMP REQUIREMENTS THE CONTRACTOR SHALL USE. CONTRACTOR SHALL ABIDE BY AND FOLLOW SWMP REQUIREMENTS FOR THE LOCAL JURISDICTION HAVING AUTHORITY.



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	11/2025	90% DESIGN REVIEW
	10/2023	50% DESIGN REVIEW

PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

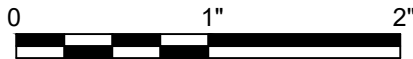
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CONSTRUCTION
OR
RECORDING



City of Loveland
Water & Power

RAILROAD
LIFT STATION

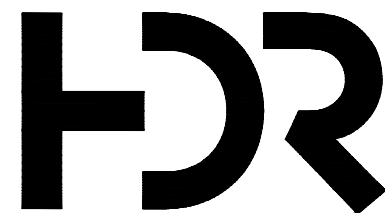
STORMWATER MANAGEMENT PLAN
DETAILS
SITE CIVIL



FILENAME | 03C506
SCALE | AS NOTED

SHEET
03C506
Page 39 of 138

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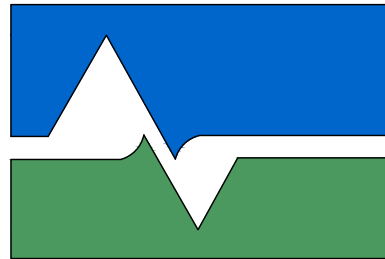


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10/2023	50% DESIGN REVIEW

ISSUE	DATE	DESCRIPTION
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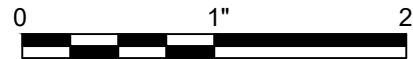
PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

NOT FOR
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RECORDING



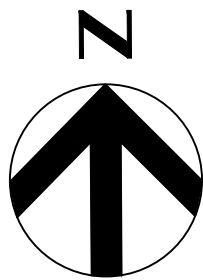
City of Loveland
Water & Power

RAILROAD
LIFT STATION



FILENAME	04C101
SCALE	AS NOTED

SHEET
04C101
Page 53 of 138

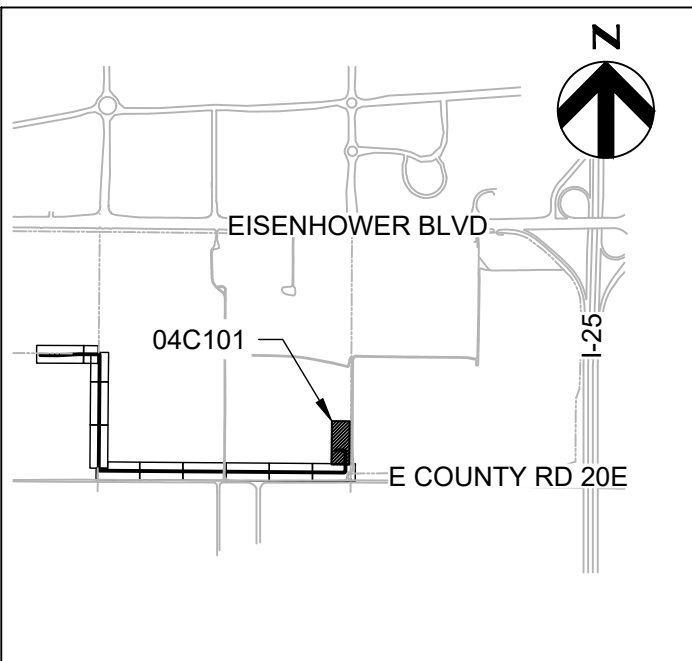


GENERAL NOTES

- A. RADII OF ROAD CURVES ARE 6-FEET, UNLESS OTHERWISE NOTED.

KEY NOTES #

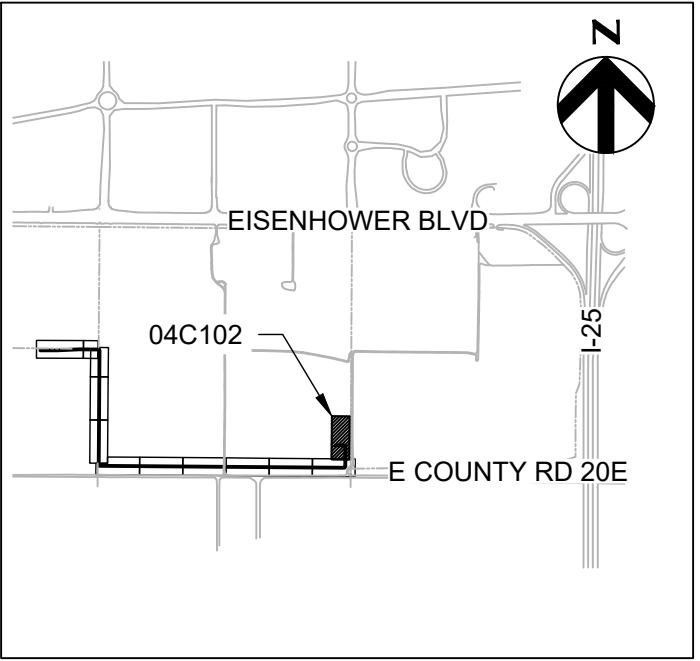
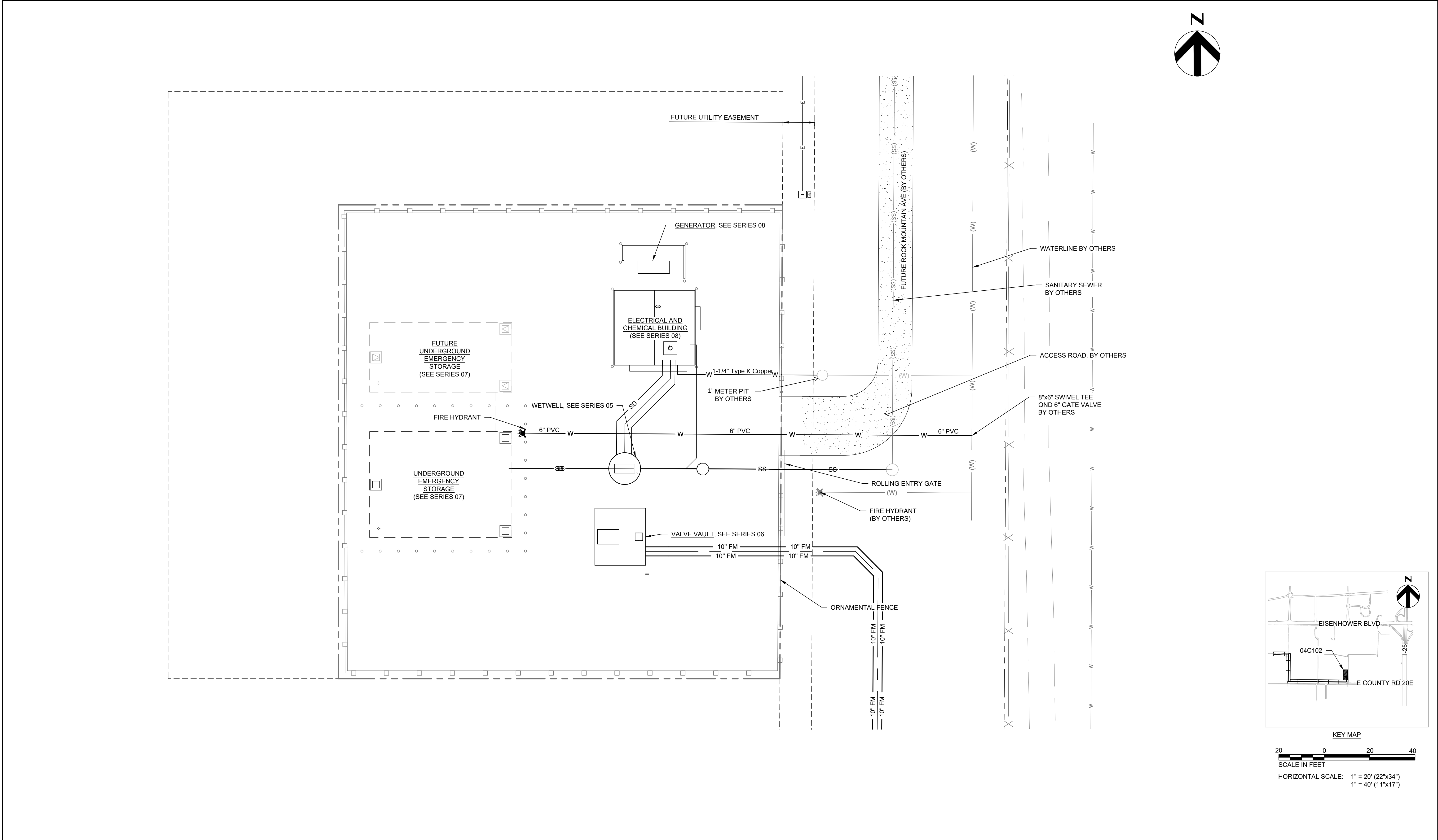
1. CRUSHED ROCK TO BE USED FOR GROUND SURFACE INSIDE OF FENCE LINE.
2. BOLLARDS PLACED EVERY 10 FT WITH CHAIN CONNECTING TO D-RING ACCORDING TO DETAIL XX/XXXX.



KEY MAP

20 0 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20' (22"x34")
1" = 40' (11"x17")

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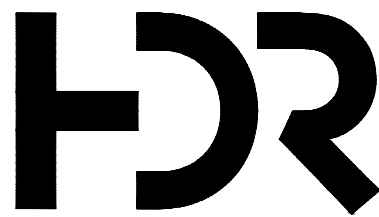
KEY MAP

20 0 20 40

SCALE IN FEET

HORIZONTAL SCALE: 1" = 20' (22"x34")

1" = 40' (11"x17")

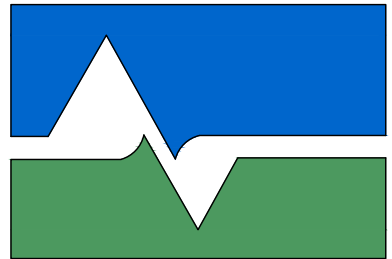


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11/2025	90% DESIGN REVIEW
10/2023	50% DESIGN REVIEW

ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

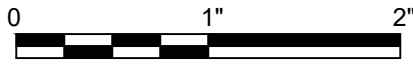
NOT FOR
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OR
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City of Loveland
Water & Power

RAILROAD
LIFT STATION

LIFT STATION
SITE - UTILITY PLAN



FILENAME | 04C102

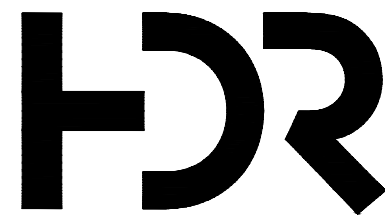
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SHEET

04C102

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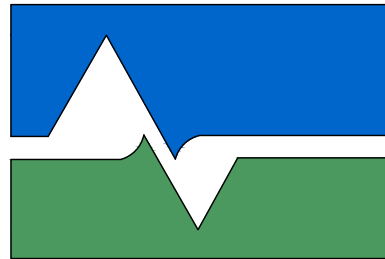


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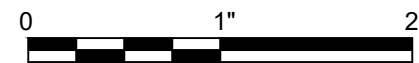
PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	J. ARCHULETA
PROJECT NUMBER	10368614

NOT FOR
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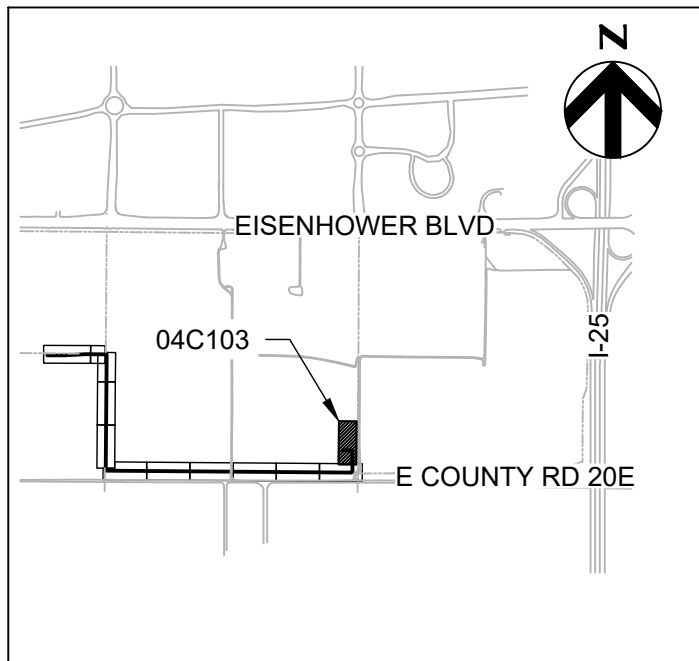
RAILROAD
LIFT STATION



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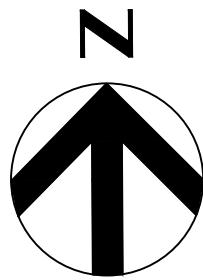
SHEET
04C103
Page 55 of 138

LIFT STATION
SITE - GRADING PLAN

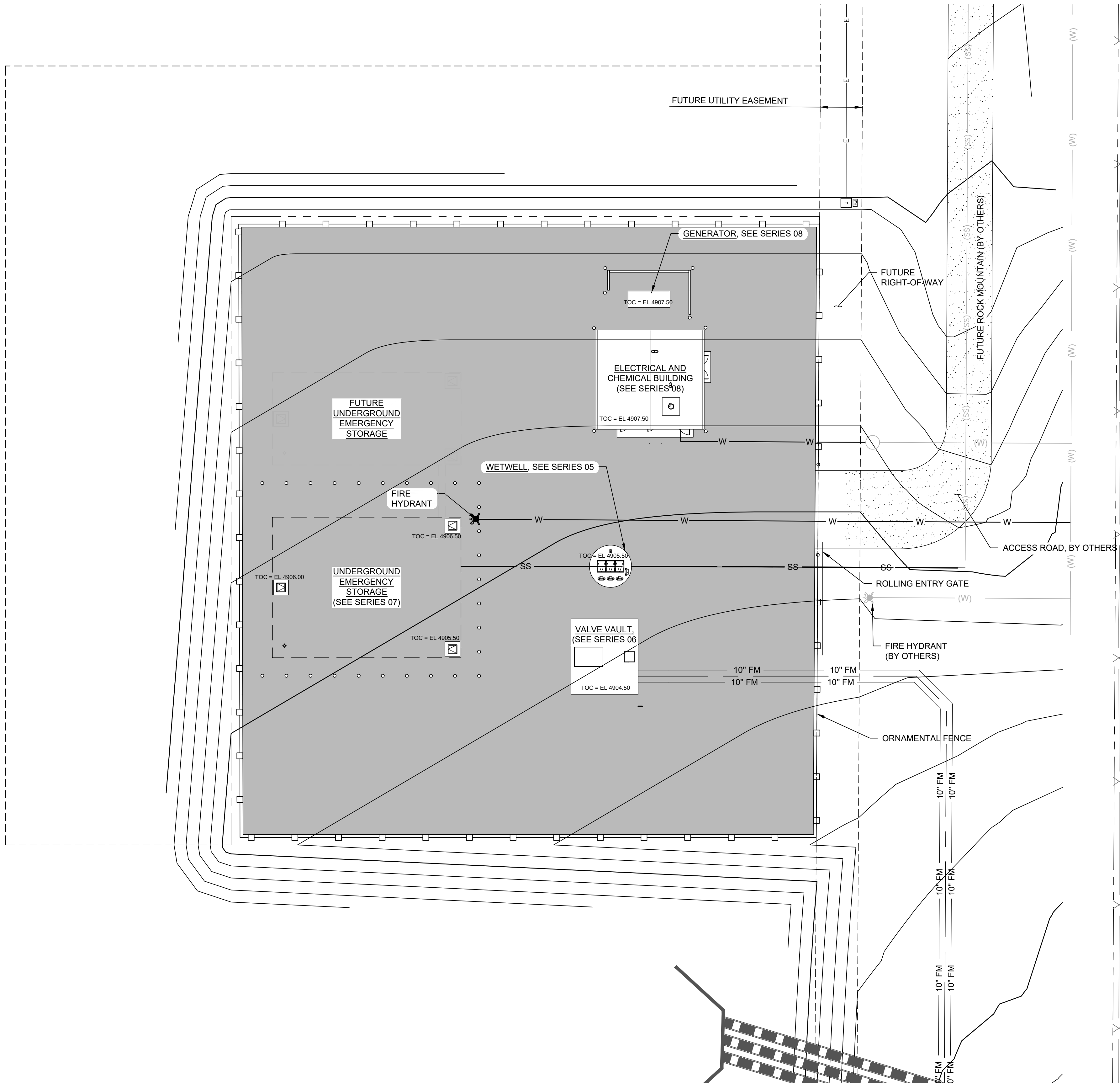


KEY MAP
20 0 20 40
SCALE IN FEET
HORIZONTAL SCALE: 1" = 20' (22"x34")
1" = 40' (11"x17")

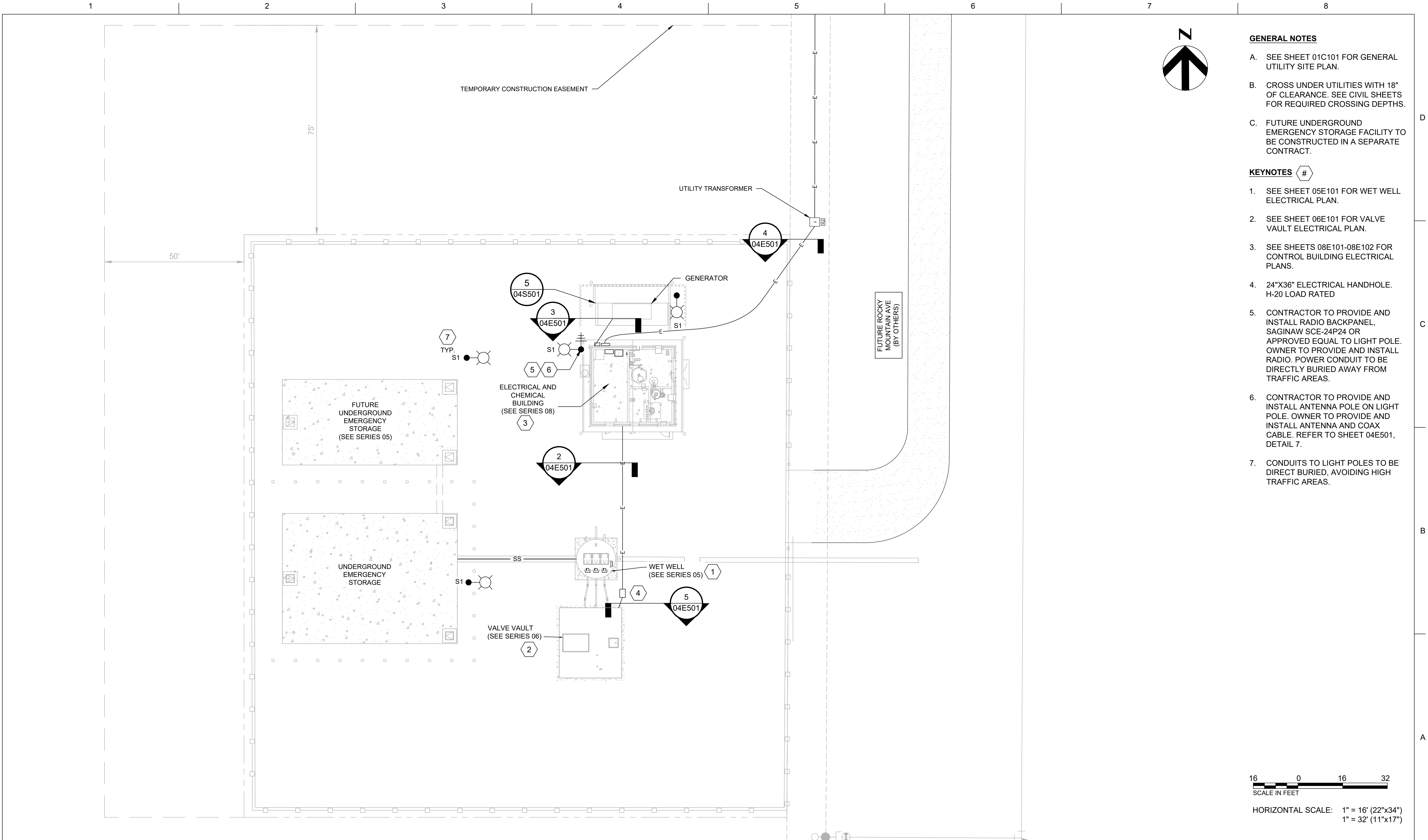
---	EXISTING CONTOUR AT TIME OF DESIGN
---	EXISTING CONTOUR BY OTHERS AT CONSTRUCTION



The top of foundation elevations shown are the minimum elevations required for protection from the 100-year storm. The lowest opening elevations shown are at least one foot above the 100-year storm elevation of adjacent streets, channels, ditches, swales, or other drainage facilities. Minimum finished floor elevations above 100-year water surface in streets, channels, ditches, swales, or other drainage facilities, as illustrated by a final grading plan are to be shown.



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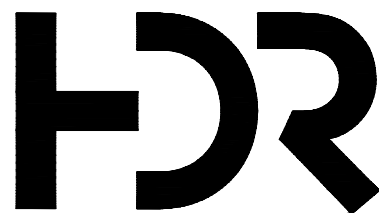


GENERAL NOTES

- A. SEE SHEET 01C101 FOR GENERAL UTILITY SITE PLAN.
- B. CROSS UNDER UTILITIES WITH 18" OF CLEARANCE. SEE CIVIL SHEETS FOR REQUIRED CROSSING DEPTHS.
- C. FUTURE UNDERGROUND EMERGENCY STORAGE FACILITY TO BE CONSTRUCTED IN A SEPARATE CONTRACT.

KEYNOTES #

1. SEE SHEET 05E101 FOR WET WELL ELECTRICAL PLAN.
2. SEE SHEET 06E101 FOR VALVE VAULT ELECTRICAL PLAN.
3. SEE SHEETS 08E101-08E102 FOR CONTROL BUILDING ELECTRICAL PLANS.
4. 24"X36" ELECTRICAL HANDHOLE. H-20 LOAD RATED
5. CONTRACTOR TO PROVIDE AND INSTALL RADIO BACKPANEL, SAGINAW SCE-24P24 OR APPROVED EQUAL TO LIGHT POLE. OWNER TO PROVIDE AND INSTALL RADIO. POWER CONDUIT TO BE DIRECTLY BURIED AWAY FROM TRAFFIC AREAS.
6. CONTRACTOR TO PROVIDE AND INSTALL ANTENNA POLE ON LIGHT POLE. OWNER TO PROVIDE AND INSTALL ANTENNA AND COAX CABLE. REFER TO SHEET 04E501, DETAIL 7.
7. CONDUITS TO LIGHT POLES TO BE DIRECT BURIED, AVOIDING HIGH TRAFFIC AREAS.



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	11/2025	90% DESIGN REVIEW
	10/2023	50% DESIGN REVIEW

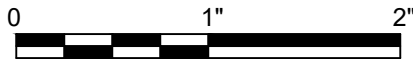
PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANEN
ARCHITECTURAL	S. HEANEY
PROCESS	M. SABON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	A. SALERNO-DELGADO
PROJECT NUMBER	10368614



City of Loveland
Water & Power

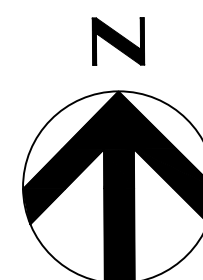
RAILROAD
LIFT STATION

LIFT STATION
ELECTRICAL SITE PLAN



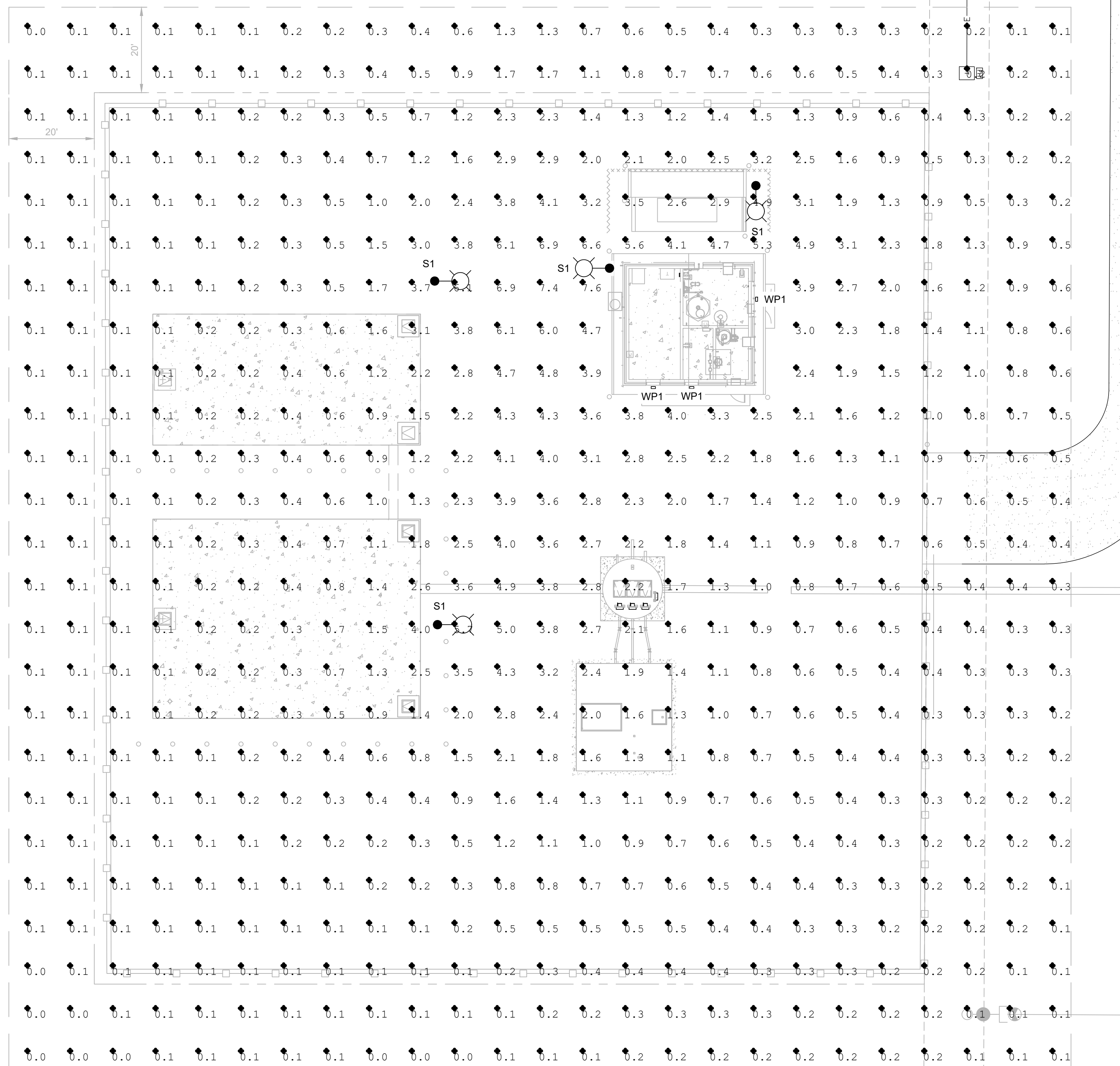
FILENAME | 04E101
SCALE | 1" = 16'

SHEET
04E101
Page 59 of 138



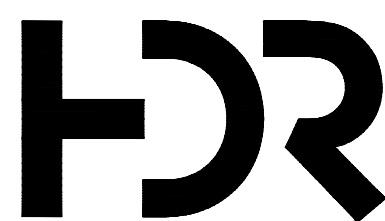
GENERAL NOTES

- A. SEE SHEET 01C101 FOR GENERAL UTILITY SITE PLAN.
- B. SEE SHEET 04E101 FOR GENERAL ELECTRICAL SITE PLAN.
- C. ANALYSIS POINTS SPACED AT TEN FOOT INTERVALS TO THE PLAN NORTH AND EAST.
- D. ANALYSIS CONDUCTED ON ALL AREAS WITHIN PROPERTY PLUS TWENTY FEET ALONG ALL SIDES OF PROPERTY LINE.
- E. ALL LUMINAIRES ASSUME A LIGHT LOSS FACTOR OF 1.0.



16 0 16 32
SCALE IN FEET

HORIZONTAL SCALE: 1" = 16' (22"x34")
1" = 32' (11"x17")



			PROJECT MANAGER		STEVE T. POOL
			PROJECT ENGINEER		M. SABON
			STRUCTURAL		Z. NANEN
			ARCHITECTURAL		S. HEANEY
			PROCESS		M. SABON
			MECHANICAL		K. CHAUDHARI
			INSTRUMENTATION		C. AUDD
			DRAWN BY		A. SALERNO-DELGADO
			PROJECT NUMBER		10368614
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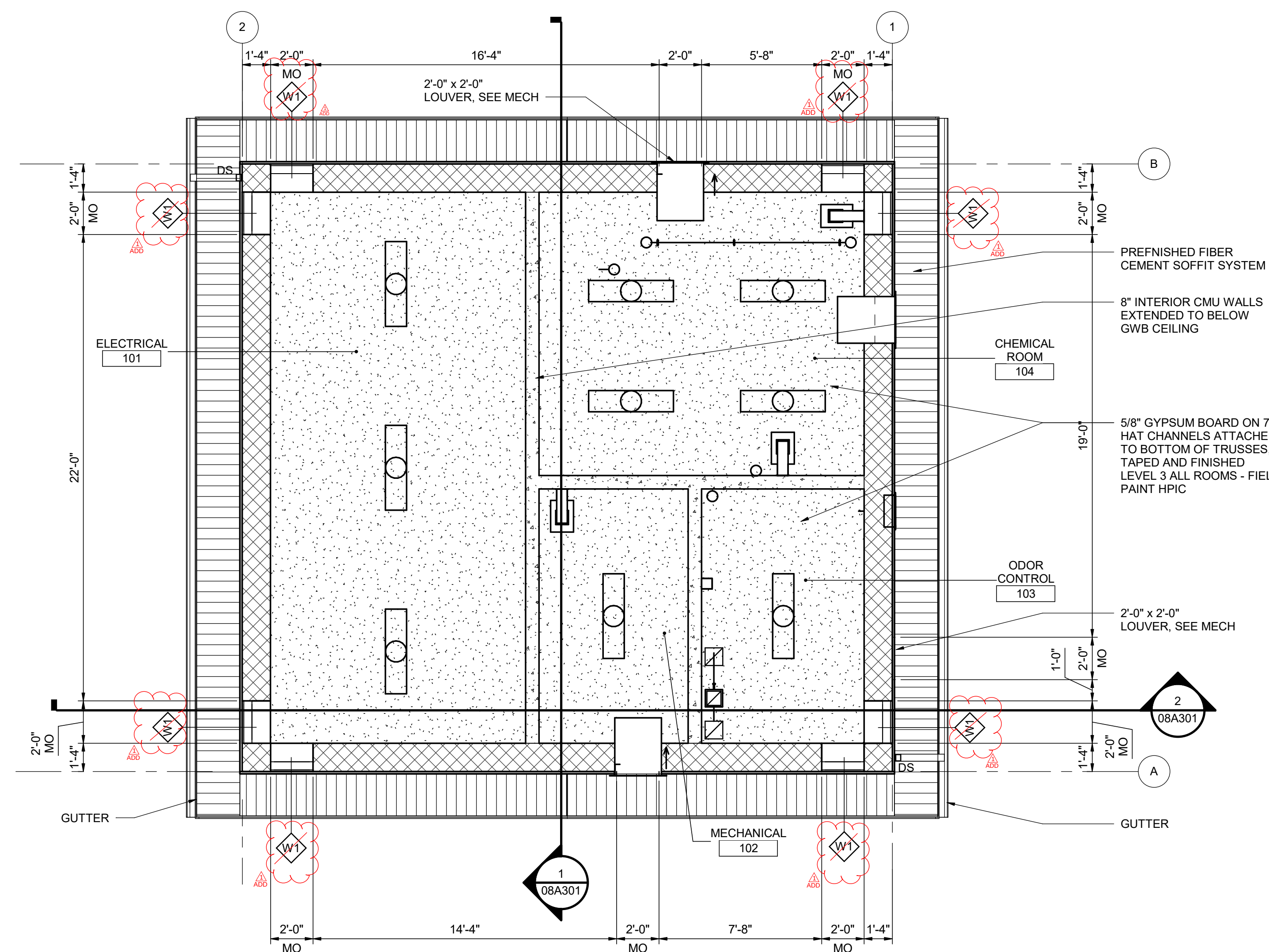
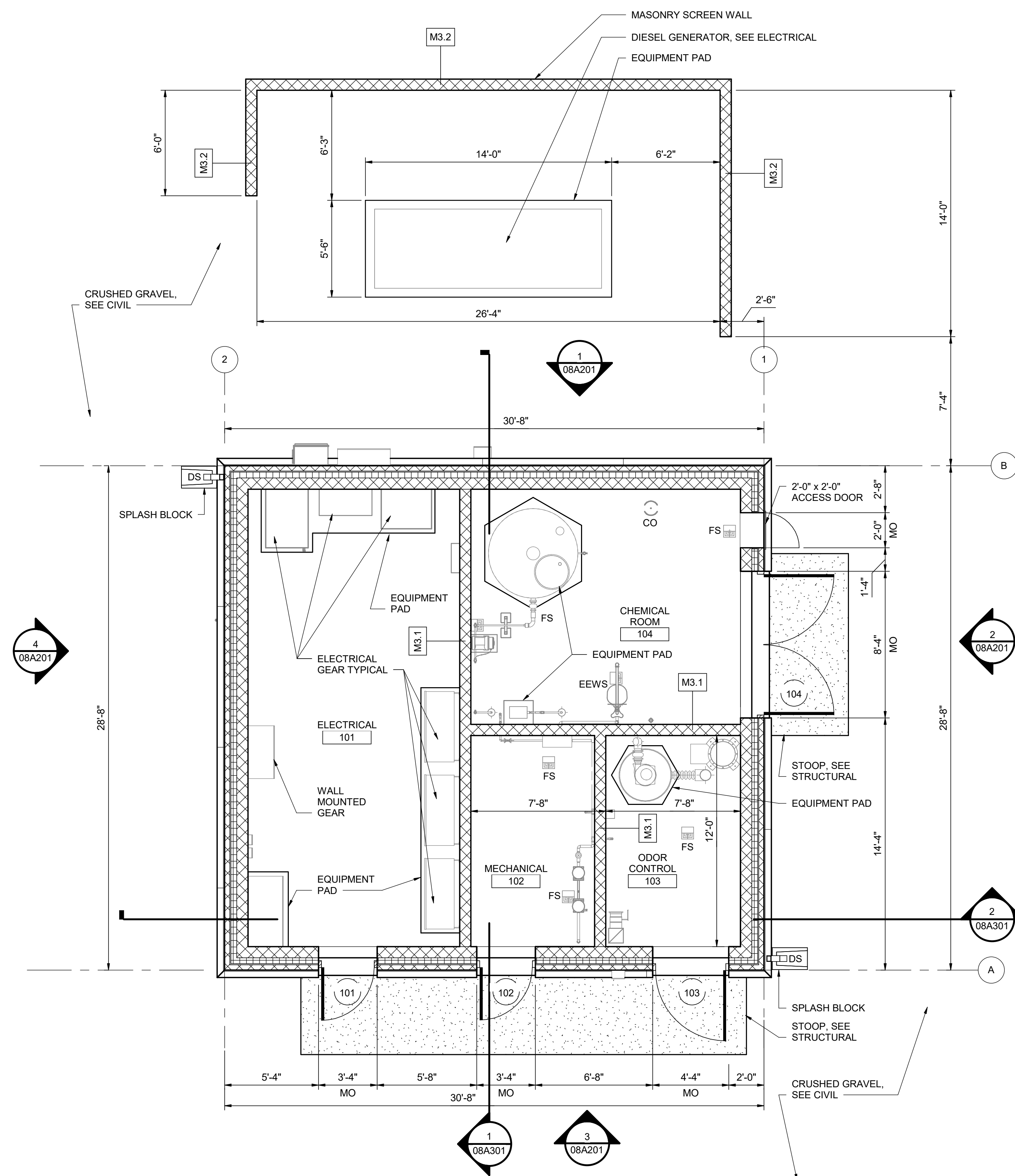
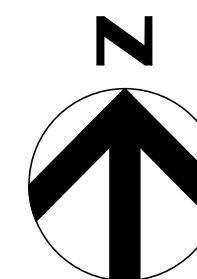
RAILROAD LIFT STATION

LIFT STATION ELECTRICAL SITE PHOTOMETRIC ANALYSIS



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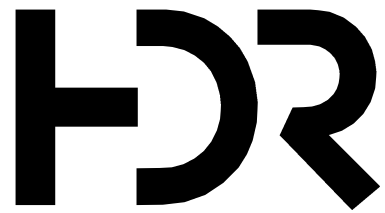
SHEET
04E102
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1 ARCHITECTURAL FLOOR PLAN
08A101 1/4" = 1'-0"

2 ARCHITECTURAL REFLECTED CEILING PLAN
08A101 1/4" = 1'-0"

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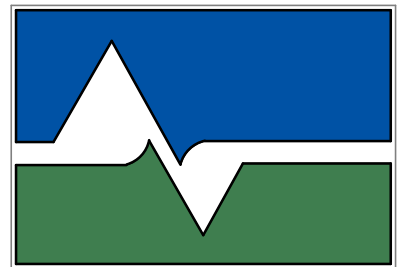


01/28/2026	ADDENDUM #1
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10/2023	50% DESIGN REVIEW

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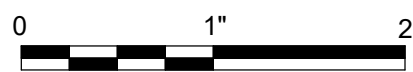
PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANNEN
ARCHITECTURAL	S. HEANEY
ELECTRICAL	B. JOHNSON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	M. RAMSAY
PROJECT NUMBER	10350652

NOT FOR
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OR
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City of Loveland
Water & Power

RAILROAD
LIFT STATION



FILENAME | 10368614_08A.rvt
SCALE | As indicated

SHEET
08A102
Page 108 of 138

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING		*REMARKS
				NORTH	EAST	SOUTH	WEST	HEIGHT	FINISH	
101	ELECTRICAL	CS-1	N	HPIC-2	HPIC-2	HPIC-2	HPIC-2		HPIC-2	1, 2
102	MECHANICAL	CS-2	N	HPIC-2	HPIC-2	HPIC-2	HPIC-2		HPIC-2	1, 2
103	ODOR CONTROL	CS-2	N	HPIC-2	HPIC-2	HPIC-2	HPIC-2		HPIC-2	1, 2
104	CHEMICAL ROOM	CS-2	N	HPIC-2	HPIC-2	HPIC-2	HPIC-2		HPIC-2	1, 2

ROOM FINISH MATERIAL AND FINISH LEGEND

FLOOR				BASE	
CS-1	CHEMICAL FLOOR SEALER			N	NONE
CS-2	CHEMICAL FLOOR SEARER - WATER AND CHEMICAL RESISTENT				

WALLS				CEILING	
HPIC-#	CONCRETE MASONRY UNITS - PAINT WITH HPIC			HPIC-#	WATER RESISTENT GYPSUM BOARD, LEVEL 3 FINISH, PAINT WITH HPIC

NOTES:
1. SEE DRAWINGS FOR WALL TYPES.

REMARKS:
1. SEE DRAWINGS FOR TYPICAL GYPSUM BOARD CEILING HEIGHT.
2. HPIC-2 WALL AND CEILING COATING: COLOR, SHERWIN WILLIAMS - SW 7006 EXTRA WHITE

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	DOOR			FRAME			GLASS	RATING	HARDWARE SET	DETAILS			*REMARKS
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH				HEAD	JAMB	SILL	
101	3' - 0"	8' - 0"	F	HM	HPIC-1	1	HM	HPIC-1	-	-	1	7/A501	8/A501	-	1
102	3' - 0"	7' - 0"	F	HM	HPIC-1	1	HM	HPIC-1	-	-	1	7/A501	8/A501	-	1
103	4' - 0"	7' - 0"	F	HM	HPIC-1	1	HM	HPIC-1	-	-	1	7/A501	8/A501	-	1
104	PR 4' - 0"	8' - 0"	F	HM	HPIC-1	1	HM	HPIC-1	-	-	2	7/A501	8/A501	-	1

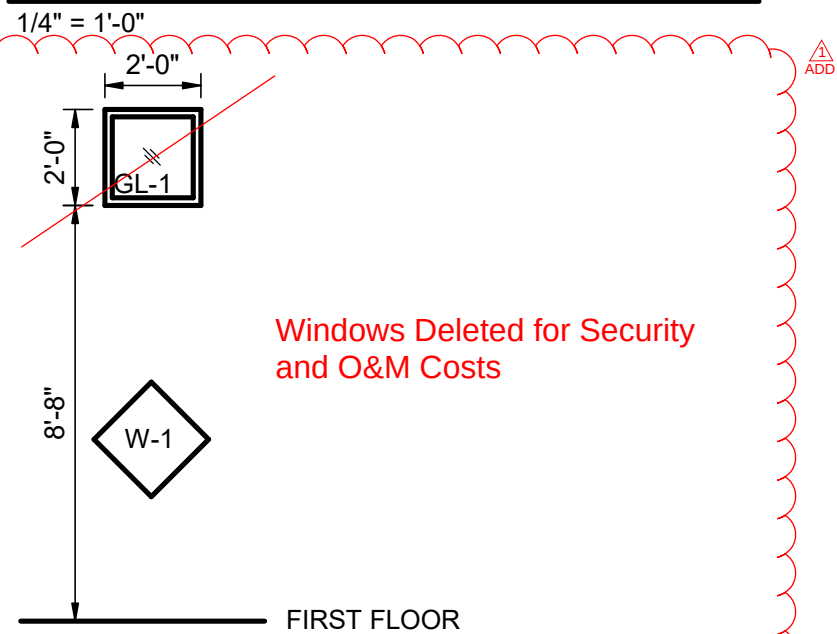
DOOR MATERIAL AND FINISH LEGEND

MATERIAL				FINISH	
HM	HOLLOW METAL			HPIC-#	HIGH PERFORMANCE INDUSTRIAL COATING

NOTES:
1. SEE DOOR AND FRAME TYPES THIS SHEET FOR DOOR ELEVATIONS

REMARKS:
1. HPIC-1 DOOR AND FRAME COATING: COLOR, SHERWIN WILLIAMS - SW 2837 AURORA BROWN

DOOR AND FRAME TYPES

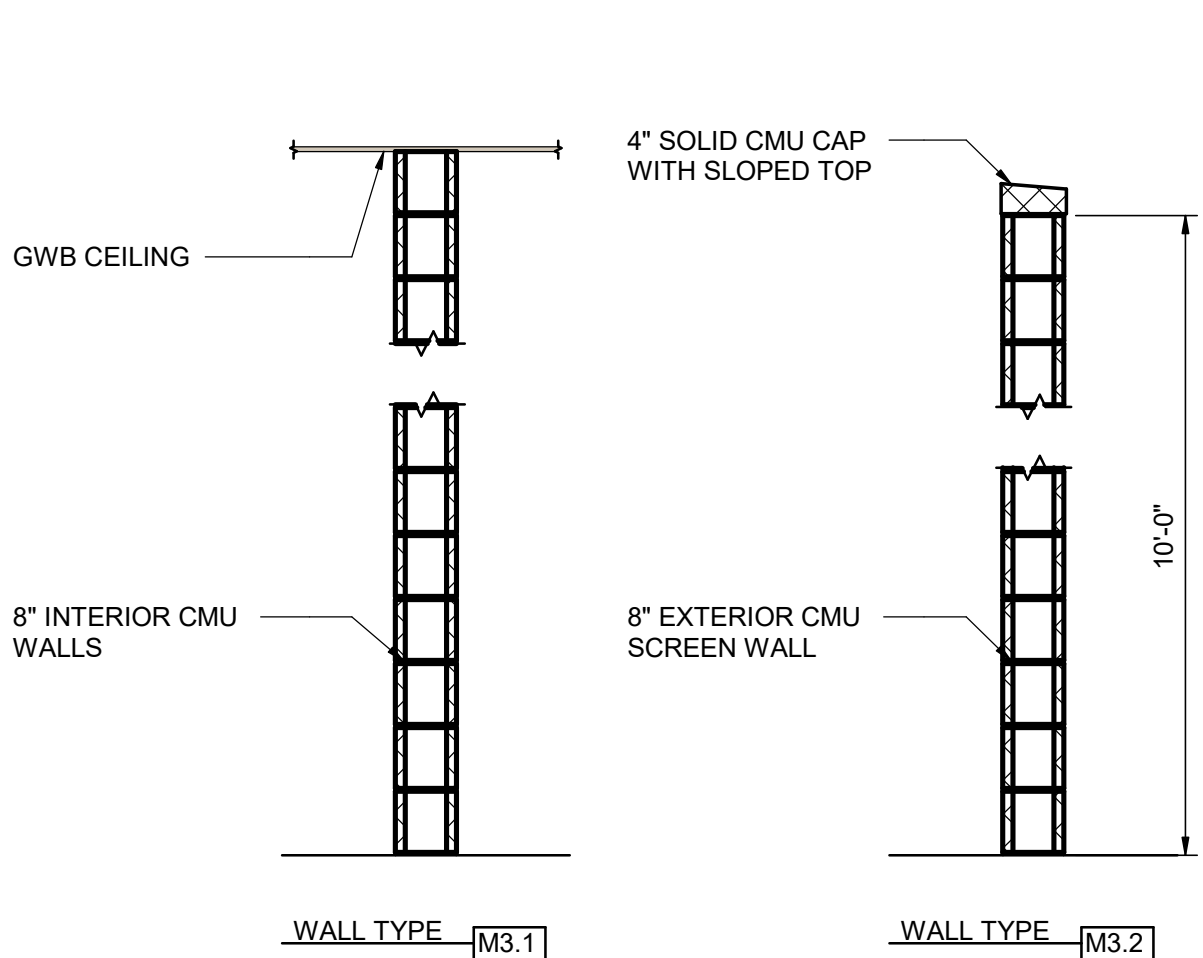


WINDOW ELEVATION

1/4" = 1'-0"

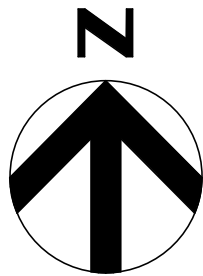
WALL TYPES

1/2" = 1'-0"



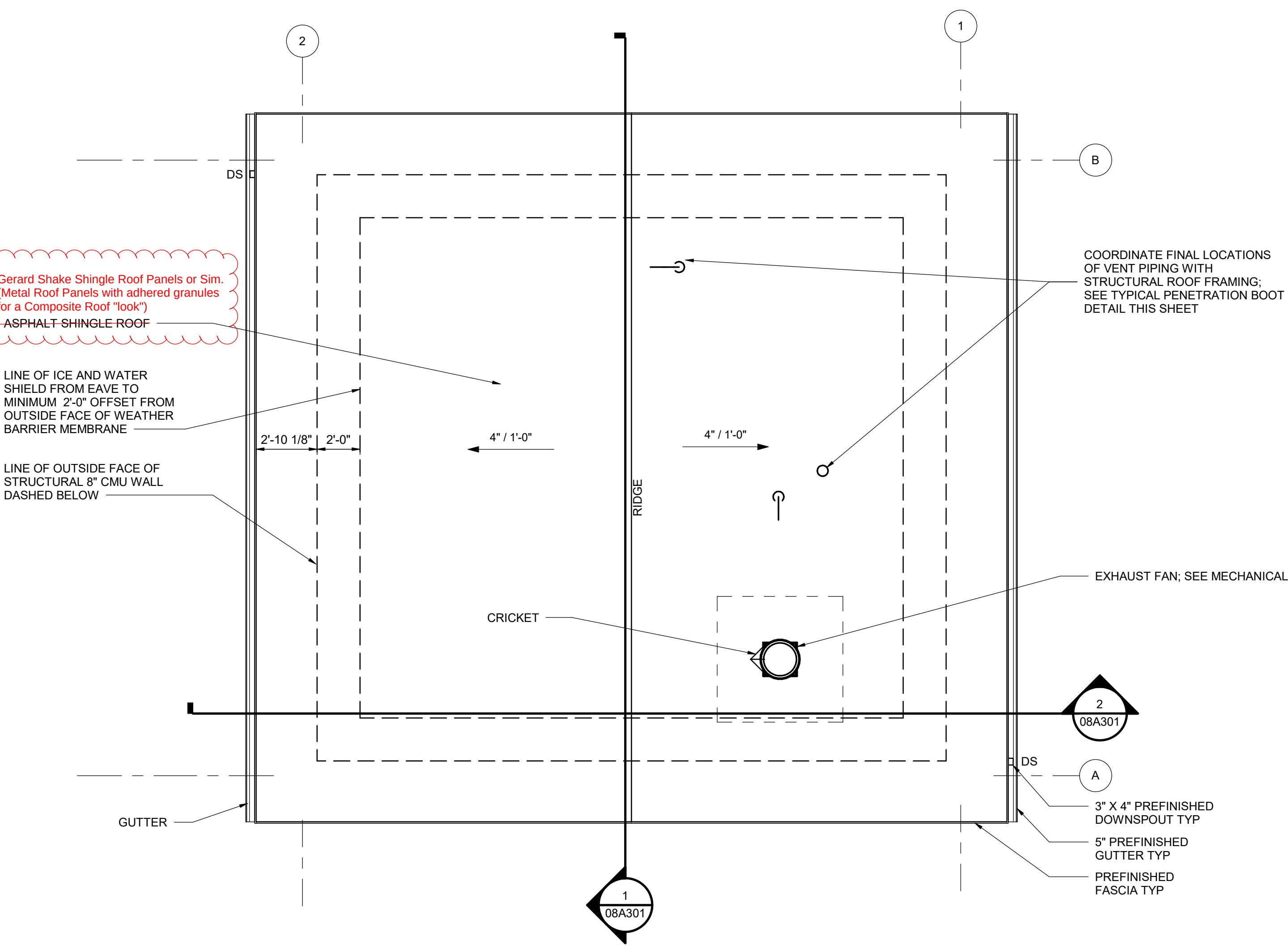
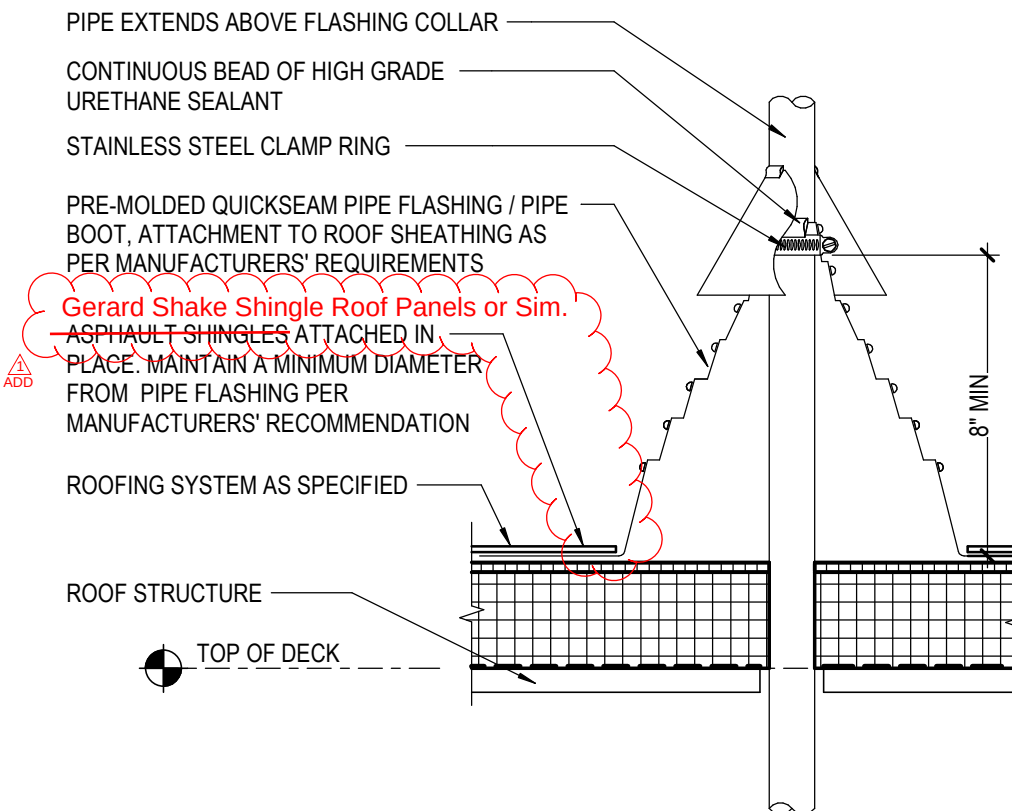
GENERAL WALL TYPES NOTES

1. WALL TYPES SHOWN ARE GENERAL DEPICTIONS TO INDICATE MATERIALS OF CONSTRUCTION; SEE PLANS FOR ADDITIONAL DETAILS.



PREMANUFACTURED PIPE FLASHING DETAIL

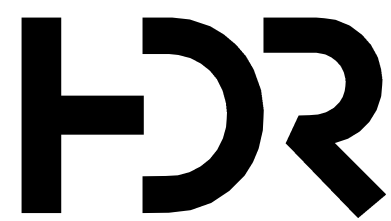
1" = 1'-0"



ARCHITECTURAL ROOF PLAN

1/4" = 1'-0"

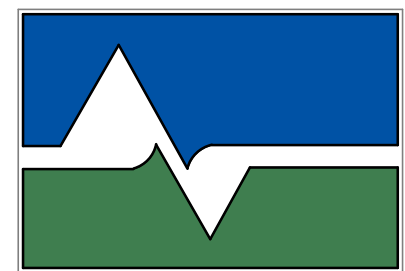
Autodesk Docs://10368614_Loveland_Railroad_Lift_Station (Central)_2024 ACC/10368614_08A.rvt
1/26/2026 11:18:26 AM



ISSUE	DATE	DESCRIPTION
	01/28/2026	ADDENDUM #1
	01/2026	100% DESIGN REVIEW
	11/2025	90% DESIGN REVIEW
	10/2023	50% DESIGN REVIEW

PROJECT MANAGER	STEVE T. POOL
PROJECT ENGINEER	M. SABON
STRUCTURAL	Z. NANNEN
ARCHITECTURAL	S. HEANEY
ELECTRICAL	B. JOHNSON
MECHANICAL	K. CHAUDHARI
INSTRUMENTATION	C. AUDIO
DRAWN BY	M. RAMSAY
PROJECT NUMBER	10350652

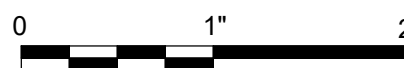
NOT FOR
CONSTRUCTION
OR
RECORDING



City of Loveland
Water & Power

RAILROAD
LIFT STATION

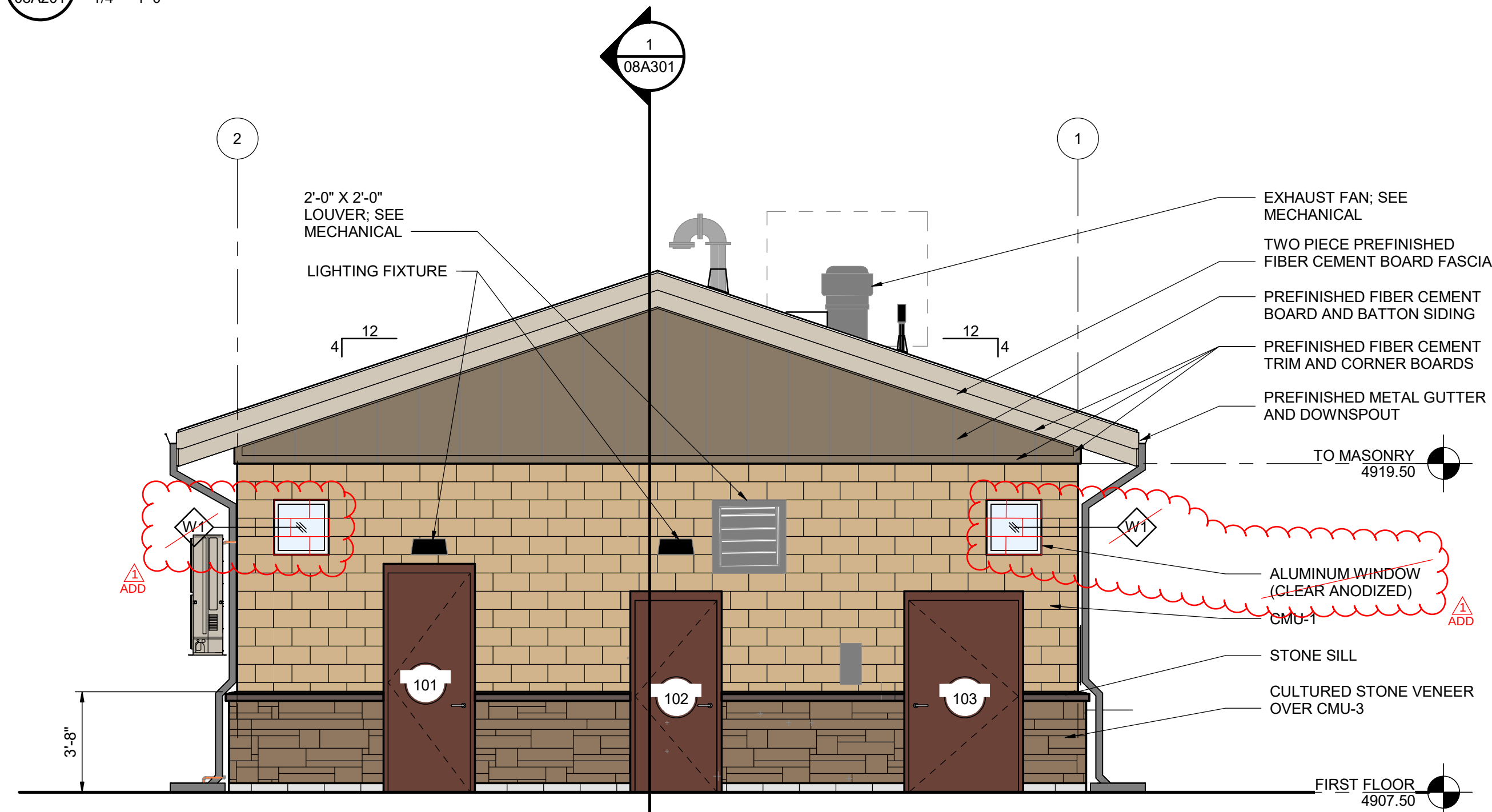
CONTROL BUILDING
ARCHITECTURAL ELEVATIONS



FILENAME | 10368614_08A.rvt
SCALE | As indicated

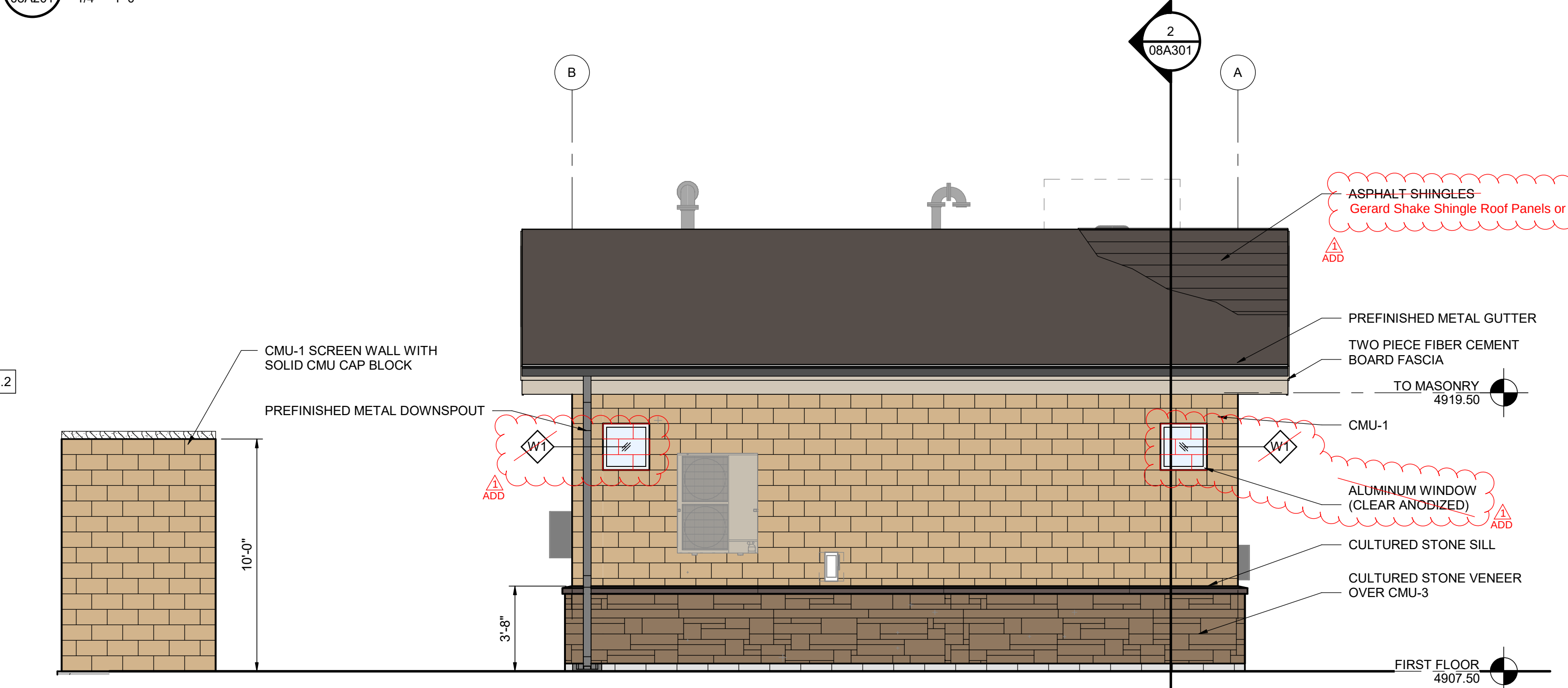
SHEET
08A201
Page 109 of 138

1 NORTH EXTERIOR ELEVATION
08A201 1/4" = 1'-0"



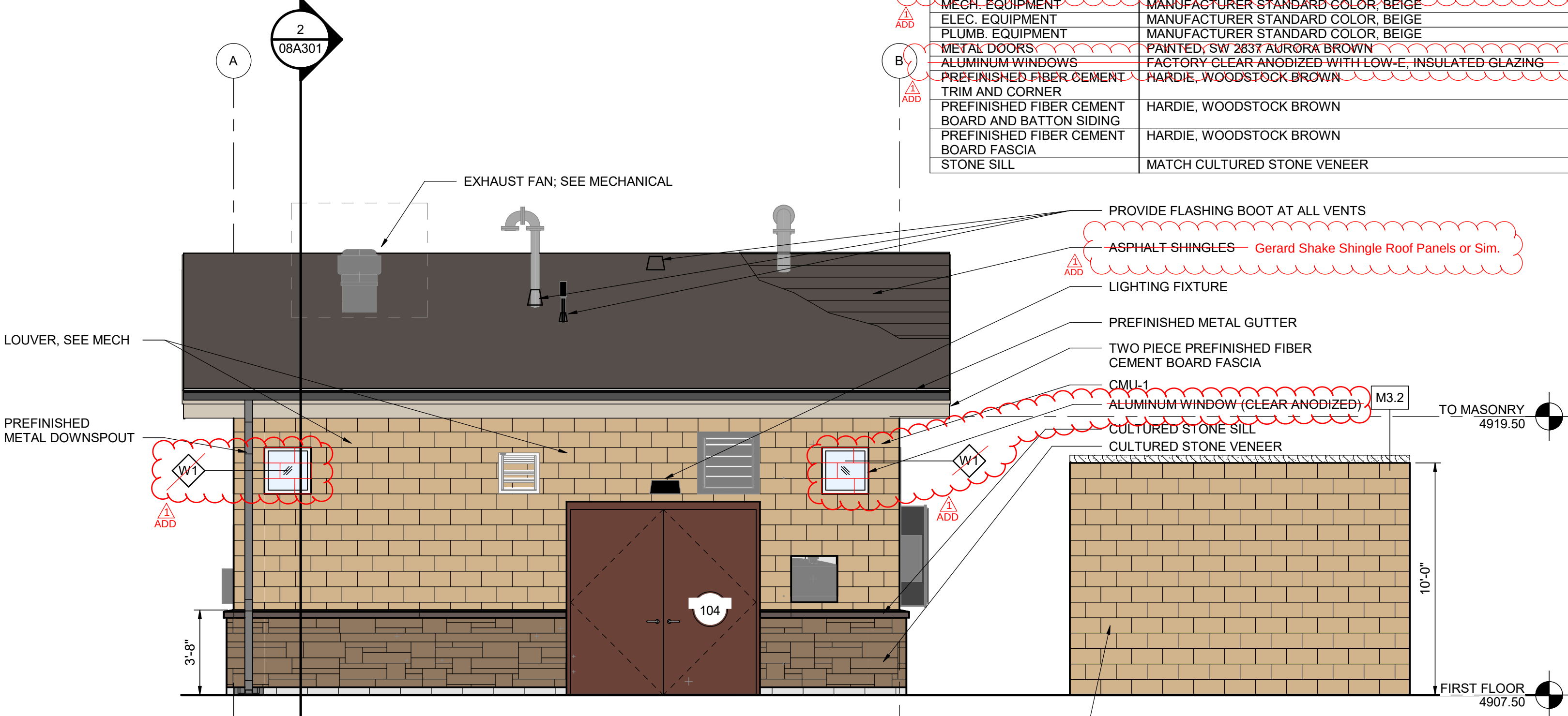
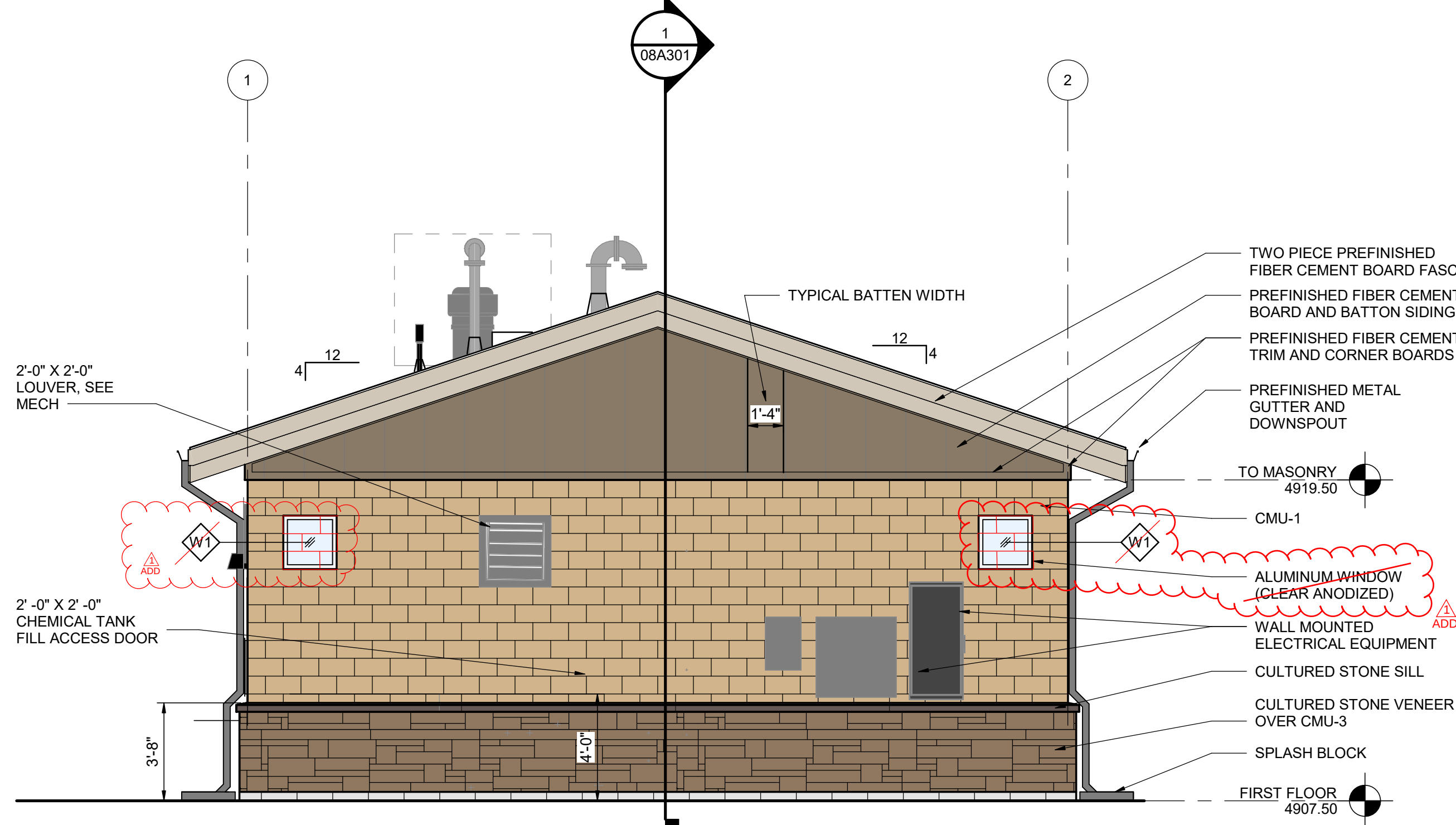
3 SOUTH EXTERIOR ELEVATION
08A201 1/4" = 1'-0"

2 EAST EXTERIOR ELEVATION
08A201 1/4" = 1'-0"



4 WEST EXTERIOR ELEVATION
08A201 1/4" = 1'-0"

EXTERIOR FINISHES LEGEND:	
CMU-1	GROUND FACE (BEST BLOCK, AUSTIN BLEND W/ COLORED MORTAR)
CULTURED STONE VENEER	BORAL, COUNTRY LEDGESTONE, CHARDONNAY - W COLORED MORTAR - HOLNAM (LIGHT BUFF (N) TL)
PREFINISHED GUTTERS AND DOWNSPOUTS	MANUFACTURER STANDARD COLOR, BEIGE
ASPHALT SHINGLES	OWENS CORNING - DRIFTWOOD Gerard Shake Shingle Roof Panels or Sim.
MECH. EQUIPMENT	MANUFACTURER STANDARD COLOR, BEIGE
ELEC. EQUIPMENT	MANUFACTURER STANDARD COLOR, BEIGE
PLUMB. EQUIPMENT	MANUFACTURER STANDARD COLOR, BEIGE
METAL DOORS	PAINTED, SW 2837 AURORA BROWN
ALUMINUM WINDOWS	FACTORY CLEAR ANODIZED WITH LOW-E, INSULATED GLAZING
PREFINISHED FIBER CEMENT TRIM AND CORNER	HARDIE, WOODSTOCK BROWN
PREFINISHED FIBER CEMENT BOARD AND BATTON SIDING	HARDIE, WOODSTOCK BROWN
PREFINISHED FIBER CEMENT BOARD FASCIA	HARDIE, WOODSTOCK BROWN
STONE SILL	MATCH CULTURED STONE VENEER



Centerra South Metro District Landscape Plan

VICINITY MAP



The Centerra South Metro District will coordinate the design, construction, and installation of all vegetation, trees, and landscaping elements for the adjacent detention pond including the screening plantings around the perimeter fence of the lift station.



Overall Site Plan Rendering
Avenue South