

2025 TREATED WATER SYSTEM IMPROVEMENTS EAST 86TH AND MADISON COURT PRV STATION REPLACEMENT

PROJECT NO. 25-37
CITY OF THORNTON, COLORADO

olsson

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LEGEND		
EXISTING	FEATURE	PROPOSED
	PROPERTY BOUNDARY	
--- 5670 ---	MAJOR CONTOUR	
--- 5671 ---	MINOR CONTOUR	
—□—	WOODEN FENCE	
ΣWV	WATER VALVE	Σ
SS	SANITARY SEWER LINE	
SD	STORM SEWER LINE	
W	WATER LINE	W
P-UG	UNDERGROUND ELECTRICAL LINE	E
G	GAS LINE	
	UNDERGROUND CABLE LINE	
○	BUSH	
▲ 100	CONTROL POINT	
● B1	SOIL BORING	
⊗	UTILITY POTHOLE	
∅	VENT PIPE	
⊙	WATER MANHOLE	
⊠	GAS METER	
ΣIRR	IRRIGATION VALVE	
⊙	TREE	
⊙	SANITARY MANHOLE	
⊙	SIGN	
	ASPHALT	
	CONCRETE	
	LANDSCAPING AREA	
	RIVER ROCKS	
	THRUST BLOCK	▲
	IRRIGATION LINE	
	LIMITS OF CONSTRUCTION	
	SAWCUT OF SIDEWALK	
	SAWCUT OF ASPHALT	



VICINITY MAP
SCALE: NTS

CITY OF THORNTON

JASON PIERCE, P.E., INFRASTRUCTURE ENGINEERING DIRECTOR DATE

MARK MAZZUCCO, PROJECT MANAGER DATE

JOSH REDMAN, UTILITIES OPERATIONS MANAGER DATE

PREPARED BY:

olsson

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ALLIE BEIKMANN P.E. 53370, PROJECT MANAGER DATE

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E101	ELECTRICAL DEMOLITION PLAN
E102	ELECTRICAL SITE PLAN
E201	ELECTRICAL DETAILS

LIST OF ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
ACP	ASBESTOS CEMENT PIPE
B	BORE HOLE
B.O.C.	BACK OF CURB
B.O.W.	BACK OF WALK
CL	CENTURY LINK (INFUSED)
CNTR	CENTERLINE
COT	CITY OF THORNTON
CP	CONTROL POINT
CWA	CONCRETE WASHOUT AREA
DESC.	DESCRIPTION
DI	DUCTILE IRON
DIA	DIAMETER
E	EASTING
EL./ELEV.	ELEVATION
G	GAS
GPM	GALLONS PER MINUTE
HORZ.	HORIZONTAL
I&C	INSTRUMENTATION & CONTROL
LF	LINEAR FEET
M.J.	MECHANICAL JOINT
MIN.	MINIMUM
N	NORTHING
NTS	NOT TO SCALE
PH	POT HOLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET
STA.	STATION
T.B.	THRUST BLOCK
T.O.P.	TOP OF PIPE
TYP	TYPICAL
VERT.	VERTICAL
W	WITH
XCEL	XCEL ENERGY

REV. NO.	DATE	DESCRIPTION	BY

COVER

2025 TREATED WATER SYSTEM IMPROVEMENTS
PRV REPLACEMENT PROJECT

2026

THORNTON, CO

drawn by: LSH
designed by: LSH
project no.: 025-02626
date: 4/30/2026

SHEET
G100

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April 30, 2026
DATE PRINTED
OLSSON

SURVEY CONTROL SHEET

PART OF THE NORTHEAST QUARTER OF SECTION 25 TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, CITY OF THORNTON, COUNTY OF ADAMS, STATE OF COLORADO

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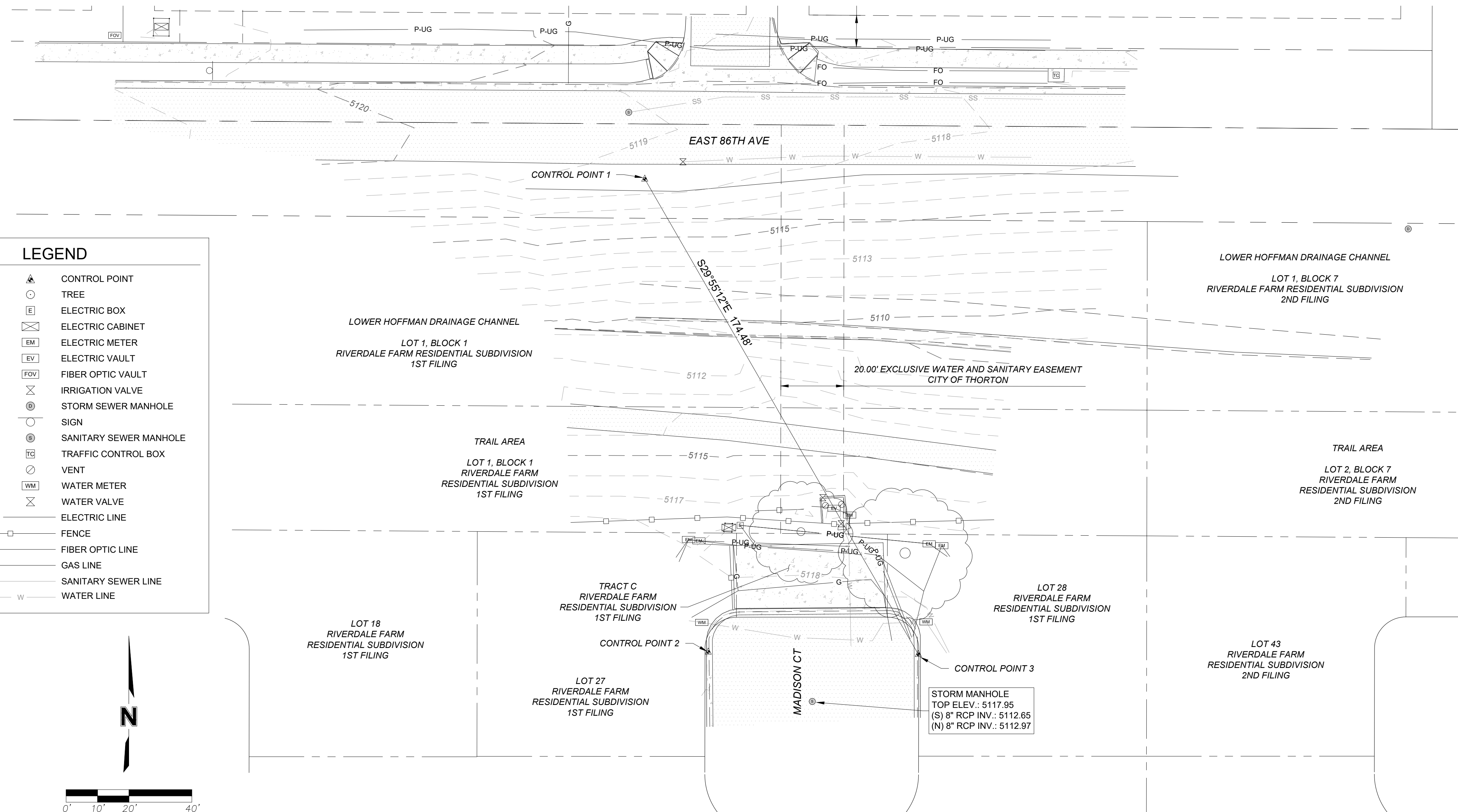
REVISIONS

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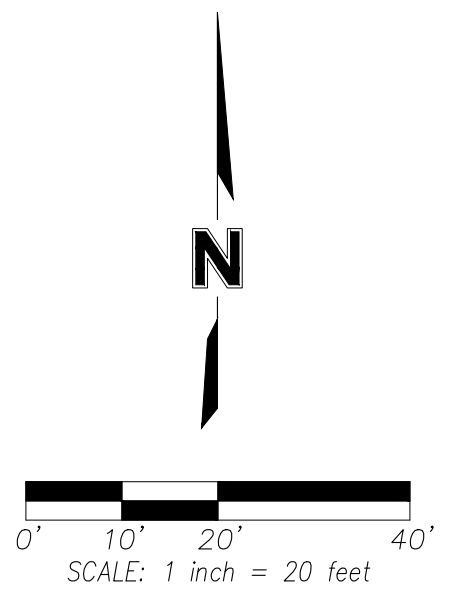
2026

drawn by: _____ LSH
designed by: _____ LSH
project no.: 025-02626
date: 4/30/2026

SHEET
V100



LEGEND	
	CONTROL POINT
	TREE
	ELECTRIC BOX
	ELECTRIC CABINET
	ELECTRIC METER
	ELECTRIC VAULT
	FIBER OPTIC VAULT
	IRRIGATION VALVE
	STORM SEWER MANHOLE
	SIGN
	SANITARY SEWER MANHOLE
	TRAFFIC CONTROL BOX
	VENT
	WATER METER
	WATER VALVE
	ELECTRIC LINE
	FENCE
	FIBER OPTIC LINE
	GAS LINE
	SANITARY SEWER LINE
	WATER LINE



GENERAL NOTES

- BASIS OF BEARINGS: BEARINGS ARE BASED UPON A LINE FROM CONTROL POINT #1 TO CONTROL POINT #3, SAID LINE MONUMENTED AT THE NORTH END BY A #5 REBAR WITH A 1.5" ALUMINUM CAP "OLSSON CONTROL", FROM WHICH THE NORTHWEST END OF SAID LINE, MONUMENTED BY A CHISLED "X" IN CONCRETE BEARS SOUTH 29° 55' 12" EAST A GROUND DISTANCE OF 174.48 FEET, AS DETERMINED BY GLOBAL POSITIONING SYSTEM OBSERVATIONS REFERENCED TO THE COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83
- UNITS SHOWN ARE U.S. SURVEY FEET, GROUND DISTANCES.
- CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
- THE VERTICAL DATUM FOR THE PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE ORTHOMETRIC HEIGHTS WERE ESTABLISHED THROUGH THE POST PROCESSED GNSS MEASUREMENTS NOTED ABOVE AND CHECKED BY TRIMBLE'S PROPRIETARY RTK POSITIONING SERVICE.

SITE BENCHMARK: OLSSON CONTROL POINT 1 HAVING A ELEVATION OF 5518.46'
- HORIZONTAL COORDINATES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) COLORADO STATE PLANE COORDINATE SYSTEM - CENTRAL ZONE (502) AND MODIFIED TO GROUND VALUES USING A COMBINED SCALE FACTOR OF 1.0002201472/ 0.999779901 ABOUT OLSSON CONTROL POINT 1.
- UNDERGROUND UTILITIES SHOWN HERON HAVE BEEN MARKED OR LOCATED FOR THIS SURVEY PER TREATED WATER SYSTEM IMPROVEMENTS SUE INVESTIGATION PROVIDED BY COLLIERS ENGINEERING AND DESIGN.

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION
1	1735839.9340	3155246.3720	5118.46	NO. 5 REBAR WITH PLASTIC CAP, OLSSON CONTROL
2	1735689.4529	3155266.5534	5117.94	CHISLED "X" IN CURB
3	1735688.7077	3155333.4012	5117.71	CHISLED "X" IN CURB

SURVEYOR'S NOTES

- NOTICE:** PURSUANT TO COLORADO REVISED STATUTES TITLE 13, ARTICLE 80, SECTION 105 (C.R.S. 13-80-105) - YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
- THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A REGISTERED PROFESSIONAL LAND SURVEYOR, IN THE PRACTICE OF LAND SURVEYING, CONSTITUTES AN EXPRESSION OR PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE SUBJECT OF THE CERTIFICATION AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

SURVEYOR'S CERTIFICATE

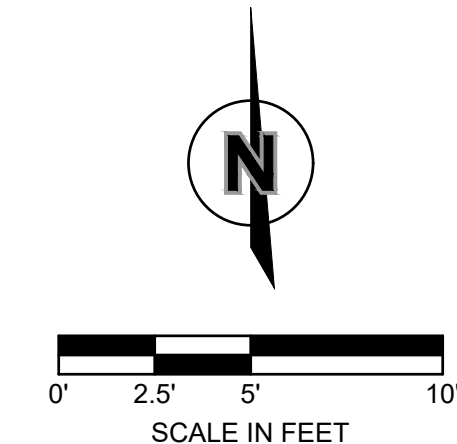
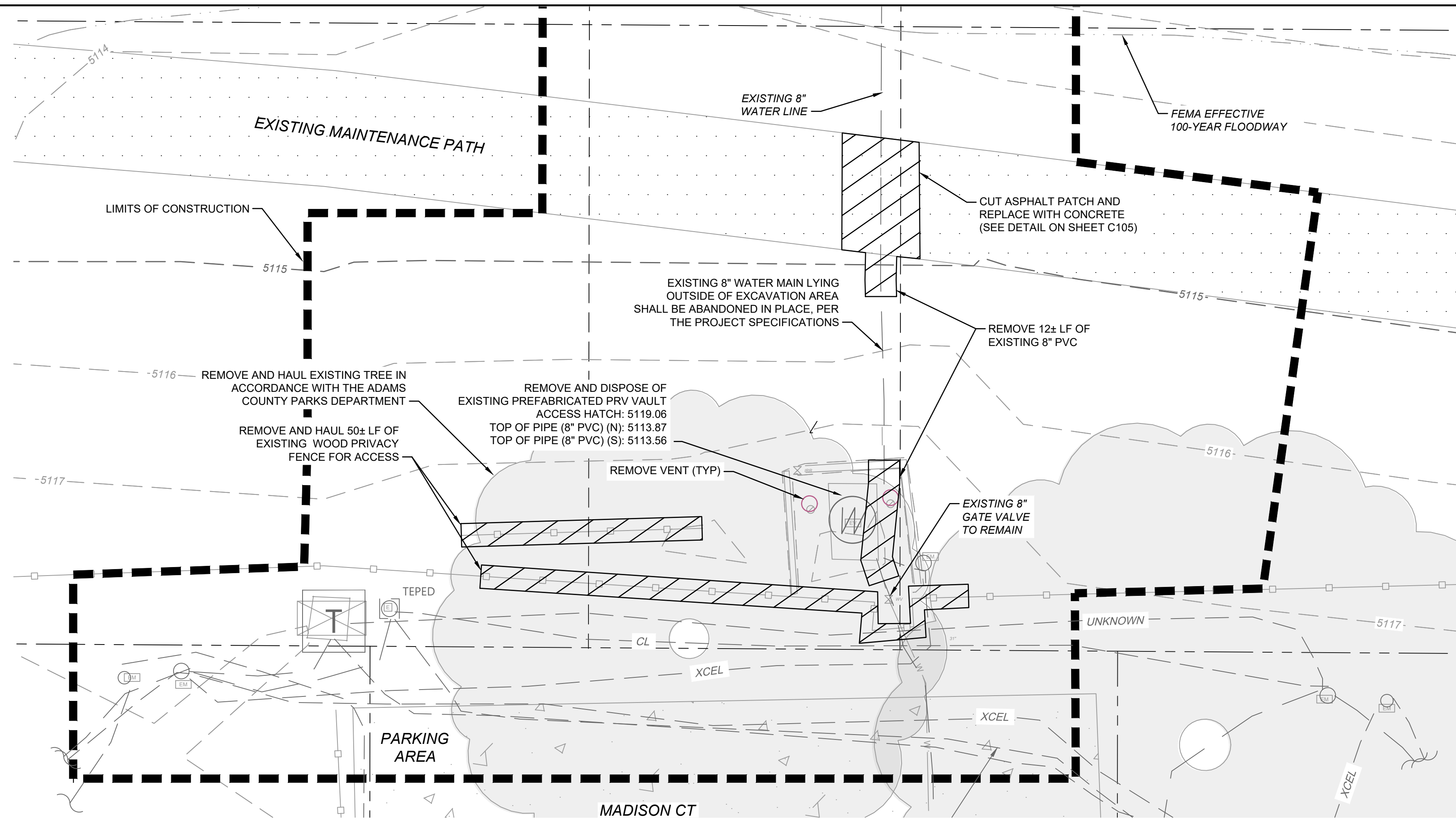
THIS SURVEY CONTROL SHEET WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, IS BASED UPON MY KNOWLEDGE, INFORMATION AND BELIEF, AND IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE. FIELD WORK WAS PERFORMED IN OCTOBER, 2025. THIS CONTROL SHEET DOES NOT CONSTITUTE A MONUMENTED LAND SURVEY PER COLORADO STATE REQUIREMENTS. THIS STATEMENT IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

ON BEHALF OF OLSSON,

MATT ROBERT EISENACH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER: 38257

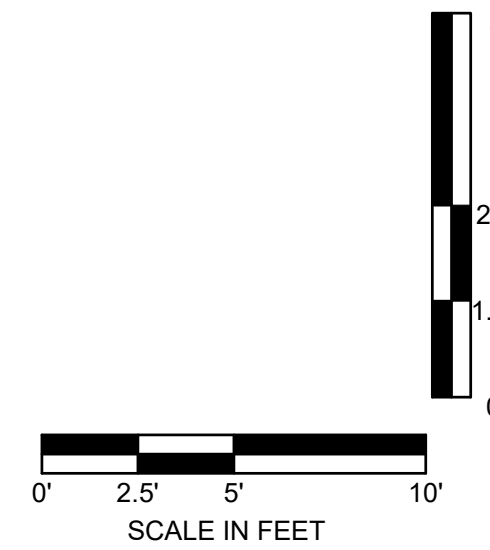
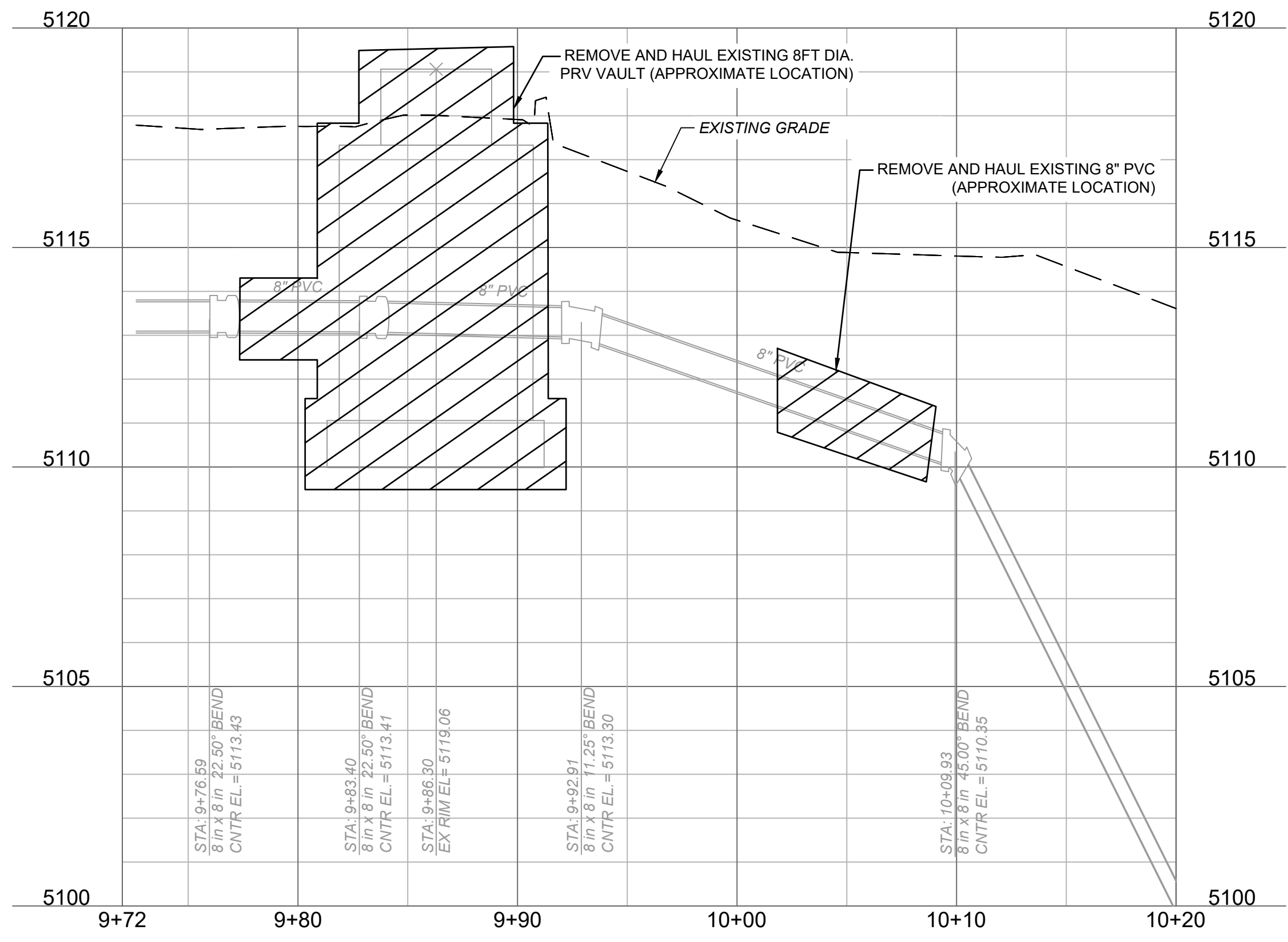
DEMOLITION LEGEND

 REMOVE EXISTING FEATURES



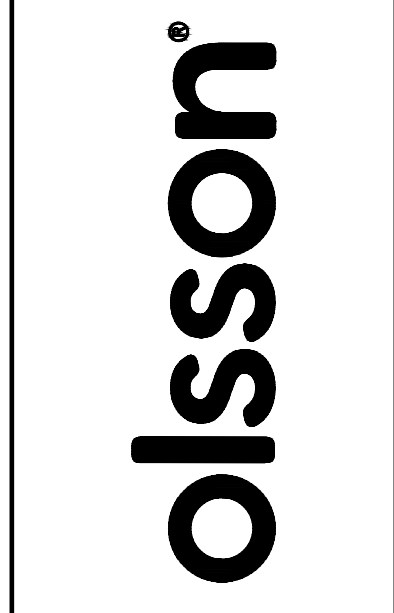
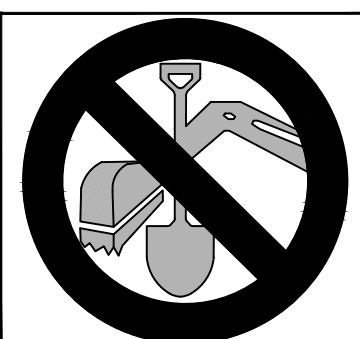
NOTE

1. THE EXISTING WATER MAIN VERTICAL AND HORIZONTAL ALIGNMENT SHOWN REFLECTS THE ELEVATIONS, COORDINATE LOCATIONS, AND ALIGNMENT DOCUMENTED IN THE PROJECT SUE REPORT, PERFORMED AND SEALED BY COLLIER'S ENGINEERING (2025-2026). CONTRACTOR SHALL FIELD VERIFY LOCATION OF WATER AND OTHER UTILITIES PRIOR TO PERFORMING THE WORK. BEND LOCATIONS ARE INFERRED FROM AS-BUILTS RIVERDALE FARM RESIDENTIAL SUBDIVISION 1ST. FILING (1984).
2. TREES SHALL NOT BE REMOVED WITHIN TEMPORARY EASEMENTS WITHOUT PERMISSION OF THE CITY.
3. CONTRACTOR SHALL REPLANT A NEW TREE TO REPLACE THE DEMOLISHED TREE PER ADAMS COUNTY PARKS DEPARTMENT REQUIREMENTS. DETAIL SHOWN ON SHEET C105. FINAL LOCATION REQUIRES OWNER AND ADAMS COUNTY APPROVAL.



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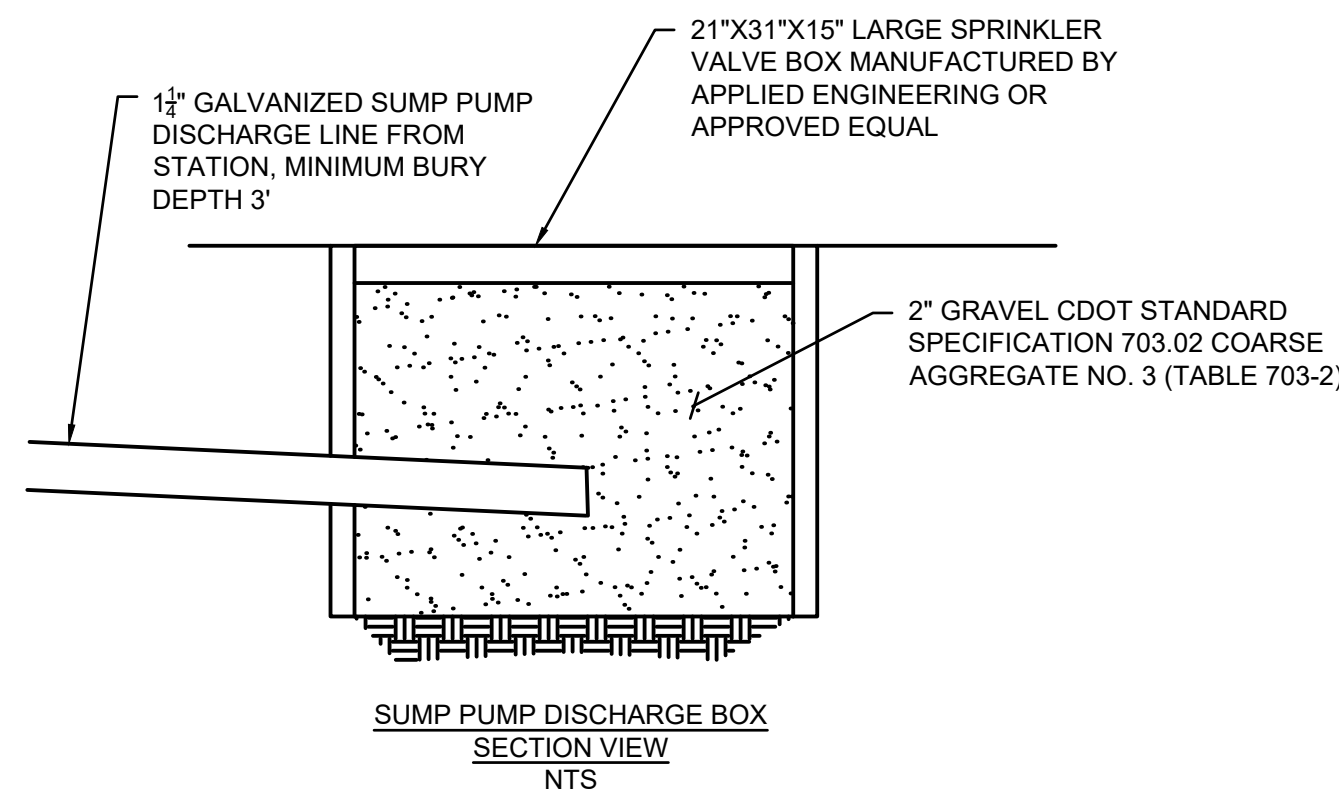
DEMOLITION PLAN
2025 TREATED WATER SYSTEM IMPROVEMENTS
PRV REPLACEMENT PROJECT
 THORNTON, CO

drawn by: LSH
designed by: LSH
project no.: 025-02626
date: 4/30/2026

SHEET C100

PRV VAULT KEY NOTES

- THE PRESSURE REDUCING VALVE (PRV) VAULT SHALL CONFORM TO THE CITY OF THORNTON PRESSURE REDUCING VALVE STANDARD DETAIL AS SEEN ON THIS SHEET, INCLUDING THE ADDITIONAL REQUIREMENTS IN NOTE 2 BELOW AND BE MANUFACTURED BY ENGINEERED FLUID, INC., DAKOTA PUMPS OR APPROVED EQUIVALENT.
- THE CITY OF THORNTON PRV VAULT SHALL HAVE THE FOLLOWING ADDITIONAL REQUIREMENTS:
 - ITEM 2 (PRESSURE GAUGES) SHALL BE MOUNTED ON A 1/8-INCH THICK STAINLESS STEEL PLATE AND BE MOUNTED TO THE WALL.
 - ITEM 7 (AIR VENTS) VENTILATION STACKS ARE TO BE PER DETAIL ON SHEET C104.
 - ITEM 21 (ENTRANCE HATCH) SHALL BE A BILCO E-50 AND BEST LOCK LOCKING ASSEMBLY FOR KEY ACCESS AT E 86TH AND MADISON COURT OR APPROVED EQUIVALENT.
 - 1.3.1. THE DIMENSION FROM THE HATCH TO THE TOP OF PRV VAULT SHALL BE INCREASED ACCORDING TO THE ELEVATIONS SHOWN ON SHEET C101. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO FABRICATION OF THE PRV STATION UNIT.
 - ITEM 25 (POWER PANEL) SHALL BE PROVIDED WITH MAIN BREAKER.
 - ITEM 28 (CATHODIC PROTECTION) SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INCLUDE A TEST STATION LOCATED INSIDE THE VAULT. TEST STATION SHALL INCLUDE OPERATING RANGE AND MINIMUM INFORMATION FROM MANUFACTURER FOR ALL GAUGES.
 - ALL CONTROL LINES SHALL BE BRAIDED 316 STAINLESS STEEL.
 - THE INFLOW AND OUTFLOW LINES SHALL BE RESTRAINED TO THE PRV VAULT SHELL.
 - ITEM 23 (SUMP PUMP DISCHARGE LINE) SHALL BE GALVANIZED STEEL.
 - THERE SHALL BE SCREENS ON ALL WYES.
 - INTERIOR SHALL BE LINED WITH VINYL LINING OF "RHINO" STANDARD, OR APPROVED EQUAL, 18-INCHES UP THE WALL.
 - THERE SHALL BE AN ELECTRONIC AND ANALOGUE GAUGE ON THE STATION'S INFLOW AND OUTFLOW LINES.
 - THE HIGH WATER SENSOR SHALL BE CYLINDRICAL, MODEL: DWYER F7-BT.
 - A STRAINER SHALL BE INSTALLED UPSTREAM OF THE GATE VALVE (ITEM 17).
 - REINFORCED CONCRETE PAD AND ANCHOR BOLTS BY INSTALLING CONTRACTOR IN ACCORDANCE WITH DIMENSIONS SHOWN ON THE SUPPLIERS SHOP DRAWINGS AND AS DIRECTED BY RESPONSIBLE PARTY. REVIEW WITH C.O.T. REGARDING RESPONSIBLE PARTY.
 - IF VAULT DOES NOT SLOPE TOWARDS SUMP, CONTRACTOR MUST ADJUST VAULT ACCORDINGLY TO ALLOW FOR PROPER DRAINAGE OF THE VAULT.
 - THERE SHALL BE NO TELEMETRY EQUIPMENT.
- AT E 86TH AVENUE AND MADISON COURT, THE PRV SHALL BE CAPABLE OF PROVIDING A PRESSURE REDUCTION TO APPROXIMATELY 60 PSI IN THE OPERATING RANGE OF AT LEAST 118 PSI TO 130 PSI.
- FOUNDATION FOR THE PRESSURE REDUCING VAULT TO BE DESIGNED BY COLORADO REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING STUDY BY OLSSON DATED MARCH 23, 2026. FOUNDATION DESIGN AND BUOYANCY CALCULATIONS ARE TO BE SUPPLIED AS PART OF THE PRESSURE REDUCING VAULT SUBMITTAL. THE FOUNDATION COST SHALL BE INCLUDED IN THE PRV VAULT LINE ITEM.
- DEMOLITION OF EXISTING PRV STATION AND WATER MAIN THAT CONFLICTS WITH THE PROPOSED PIPE TRENCH INCLUDES REMOVAL OF ALL INTERNAL AND EXTERNAL MATERIALS, THE VAULT STRUCTURE IN ITS ENTIRETY, THE EXISTING BURIED FOUNDATION, SUBGRADE MATERIAL THAT DOES NOT MEET CONTRACT DOCUMENT AND/OR CITY REQUIREMENTS, AND OTHER LOOSE DEBRIS. REFER TO THE PROJECT SPECIFICATIONS FOR RELATED DEMOLITION REQUIREMENTS.
- EXISTING WATER MAIN OUTSIDE OF PROPOSED EXCAVATION WORK SHALL BE ABANDONED IN PLACE. CONTRACTOR SHALL DISCONNECT, DRAIN, FLO-FILL, AND SEAL OR CAP PIPE TO ABANDON. REFER TO THE PROJECT SPECIFICATIONS FOR RELATED DEMOLITION REQUIREMENTS.
- GATE VALVES SHALL REPLACE ALL BUTTERFLY VALVES DEPICTED IN PRV DETAIL.
- FIBERMESH REINFORCED CONCRETE COLLAR SHALL MAINTAIN A 6-INCH WIDE PERIMETER AROUND THE HATCH AND A DEPTH OF 12 INCHES. CONTRACTOR TO SLOPE COLLAR TO MAINTAIN DRAINAGE AWAY FROM HATCH.
- CONTRACTOR SHALL GRADE GROUND AROUND HATCH TO MAINTAIN POSITIVE DRAINAGE AND TIE TO EXISTING GROUND ELEVATION AT THE R.O.W. LINE.



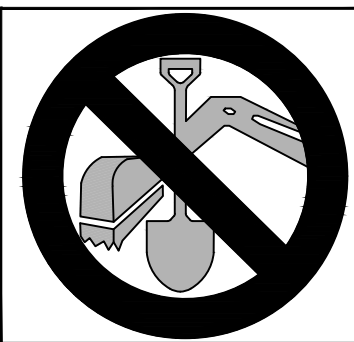
NOTES:

- CONTRACTOR TO CONFIRM DEPTHS OF PIPELINES AT THE PROPOSED VAULT LOCATION BEFORE CONSTRUCTION.
- SLOPE SUMP DISCHARGE LINE DOWN TO DISCHARGE BOX @ 0.5%.
- SUMP PUMP DISCHARGE LINE SHALL HAVE A CHECK VALVE INSIDE THE PRV VAULT.

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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CALL 3-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



THE PRESSURE REDUCING VAULT SHALL BE MANUFACTURED BY ENGINEERED FLUID, INC., DAKOTA PUMP INC. OR OTHER APPROVED BY DEVELOPMENT ENGINEERING MANAGER.

THE VAULT SHALL ALSO BE EQUIPPED WITH FOLLOWING:

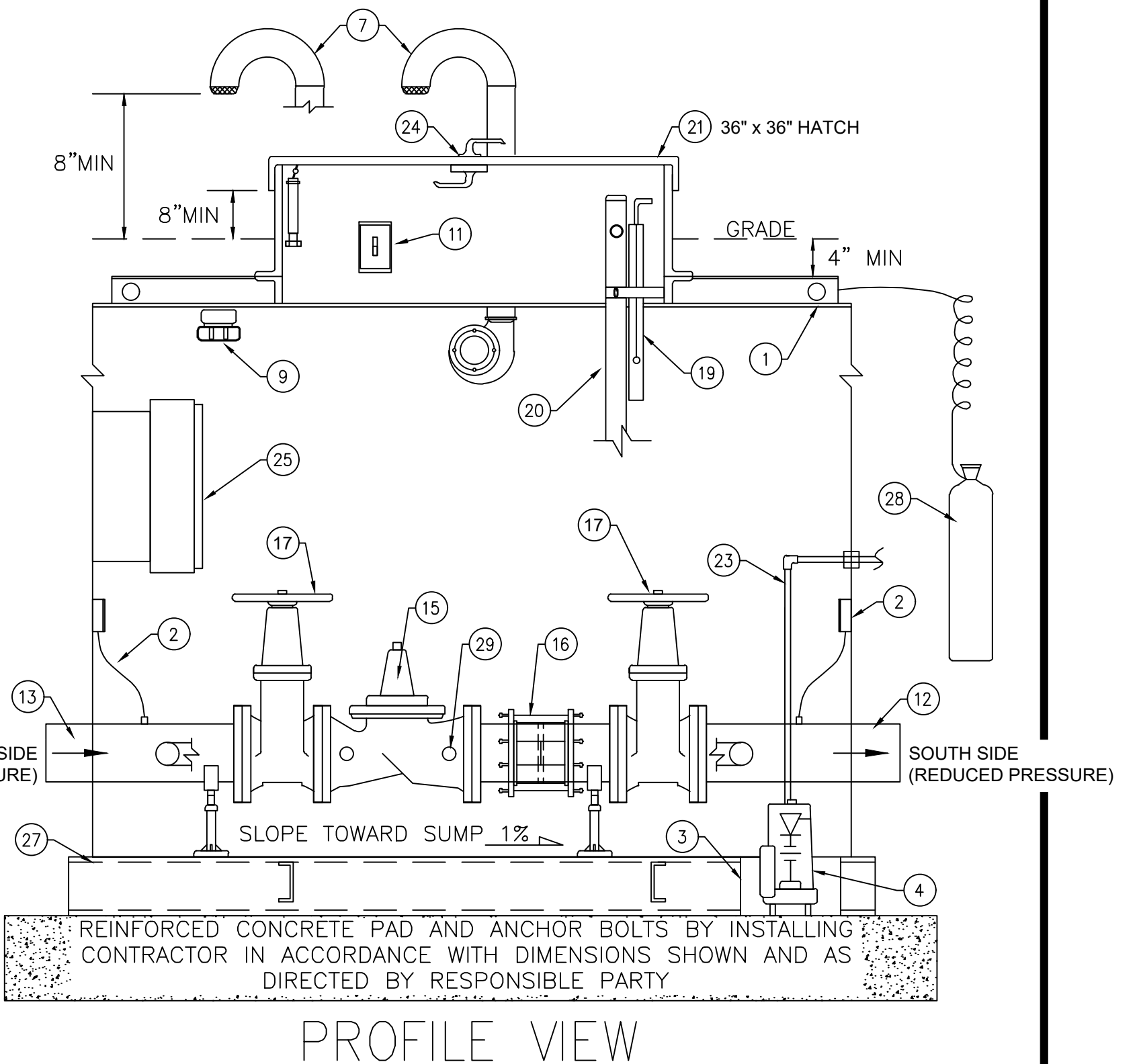
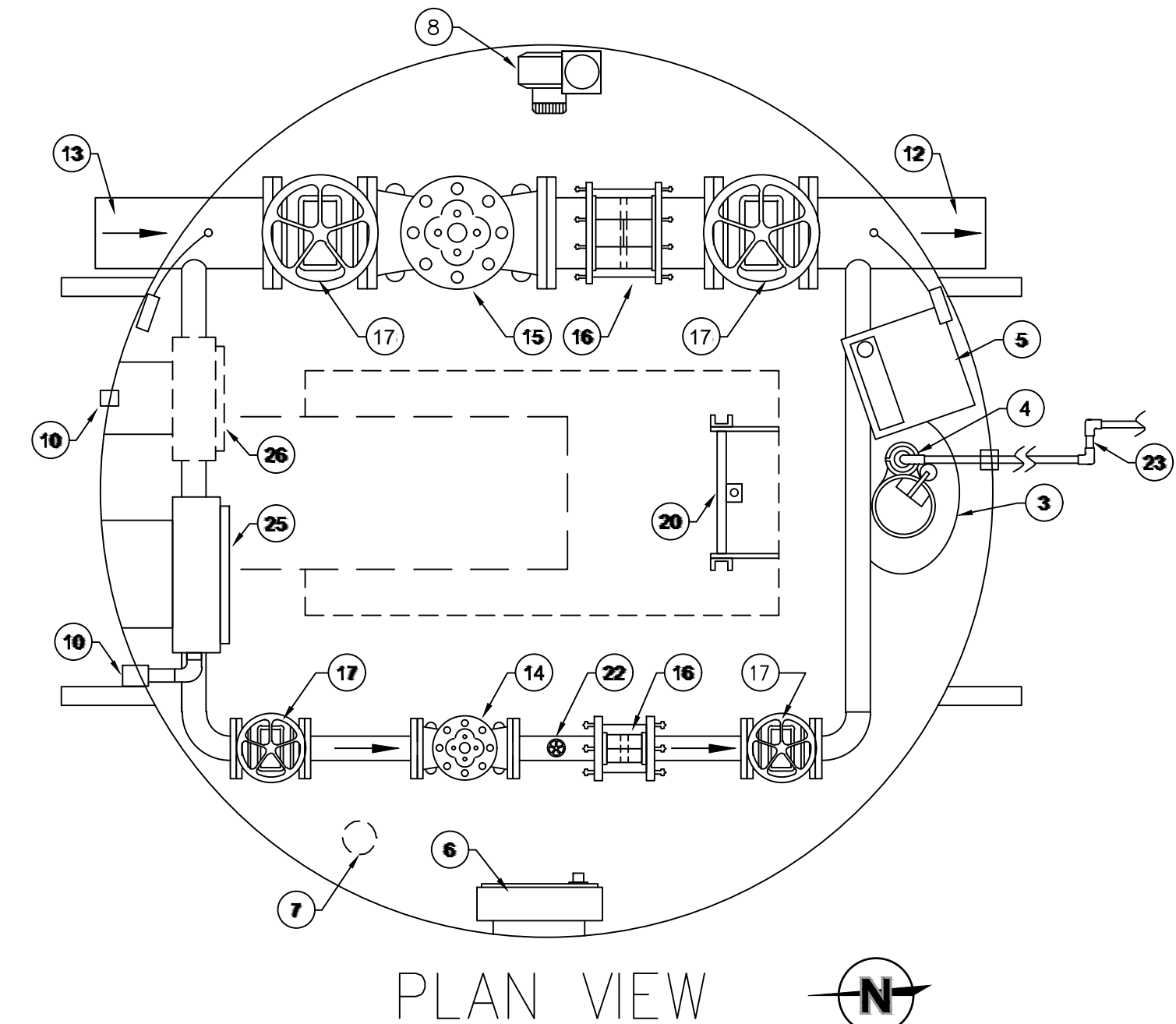
- SUMP PUMPS SHALL BE HYDRO-MATIC OSP50AB, OR AN APPROVED EQUIVALENT. A PIPE UNION SHALL BE INSTALLED IN THE DISCHARGE LINE BETWEEN THE PUMP AND THE CHECK VALVE. DISCHARGE LINE SHALL BE MADE OF IRON AND SHALL DIRECT FLOWS TO A LOCATION APPROVED BY CITY OF THORNTON INSPECTOR.
- VENTILATION FANS SHALL BE AS MANUFACTURED BY ILG, OR AN APPROVED EQUIVALENT, MODEL PTD DIRECT-DRIVE TUBEAXIAL DUCT FAN SIZE PTD 123 (811 CFM @ 3/8" S.P.) WITH A ONE-SIXTH (1/6) HP, 120-VOLT CONSTANT SPEED, SINGLE PHASE, 60HZ ELECTRIC MOTOR. CONTROL SWITCH FOR THE FAN SHALL BE MOUNTED NEXT TO THE ENTRYWAY SO THAT IT CAN BE OPERATED WITHOUT COMPLETELY ENTERING THE VAULT. THE DISCHARGE OF THE VENT FAN SHALL BE TOTALLY ENCLOSED AND ATTACHED TO THE OPENING OF THE EXHAUST VENT PIPE.
- DEHUMIDIFIERS SHALL BE DAYTON MODEL# 5EAJ7, OR AN APPROVED EQUIVALENT. PROVIDE CONDENSATE DRAIN PIPE FROM DRIP TRAY TO WITHIN SIX (6) INCHES OF THE FINISHED FLOOR.

ALL CONTROL LINES AND FITTINGS SHALL BE STAINLESS STEEL AND INCLUDE ISOLATION TO ALL PRV CONTROL LINES

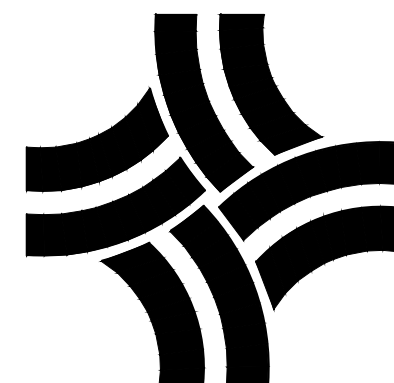
SEE SECTION 204.1(G) AND 204.1(J) OF THE CITY OF THORNTON STANDARDS AND SPECIFICATIONS.

PRV	MIN. BYPASS SIZE
8"	2-1/2"
12"	4"
16"	6" w/2" BYPASS

Legend	
1	Lifting Hooks (Add to any equipment in excess of 60 lbs)
2	Pressure Gauges (stainless steel w/ isolation viv & purge line)
3	Sump Well (18" deep 12" wide)
4	Sump Pump with grate
5	Dehumidifier
6	Station Heater
7	Air Ducts
8	Ventilation Blower
9	Station Light
10	1.5" Conduit (provide a minimum of two conduits)
11	Light and Fan Switch (accessible from outside the vault)
12	Main Outlet
13	Main Inlet
14	Low Flow Bypass
15	Pressure Reducing Valve (With rising stem indicator)
16	Coupling
17	GATE Valves
18	BUTTERFLY valves
19	Safety Post
20	Entrance Ladder
21	Entrance Hatch (weather tight cover with overhang skirt)
22	3/4" Hose Bib
23	Sump discharge (IRON pipe with swivel joint for settlement)
24	Lock with AH1 keys or "BEST" locking assembly
25	Power Panel Enclosure
26	Telemetry Panel (as required by Dev. Eng. Manager)
27	Capsule reinforcement as directed by responsible party
28	Cathodic Protection as directed by responsible party
29	Control lines (stainless steel w/ stainless steel isolation valves)



N.T.S.

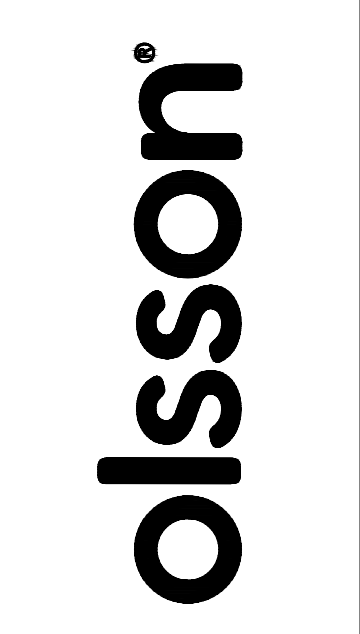


CITY OF THORNTON, COLORADO STANDARDS & SPECIFICATIONS

PRESSURE REDUCING VAULT DETAIL

ISSUED: APRIL 2010
REVISED:

DRAWING NO. 200-12



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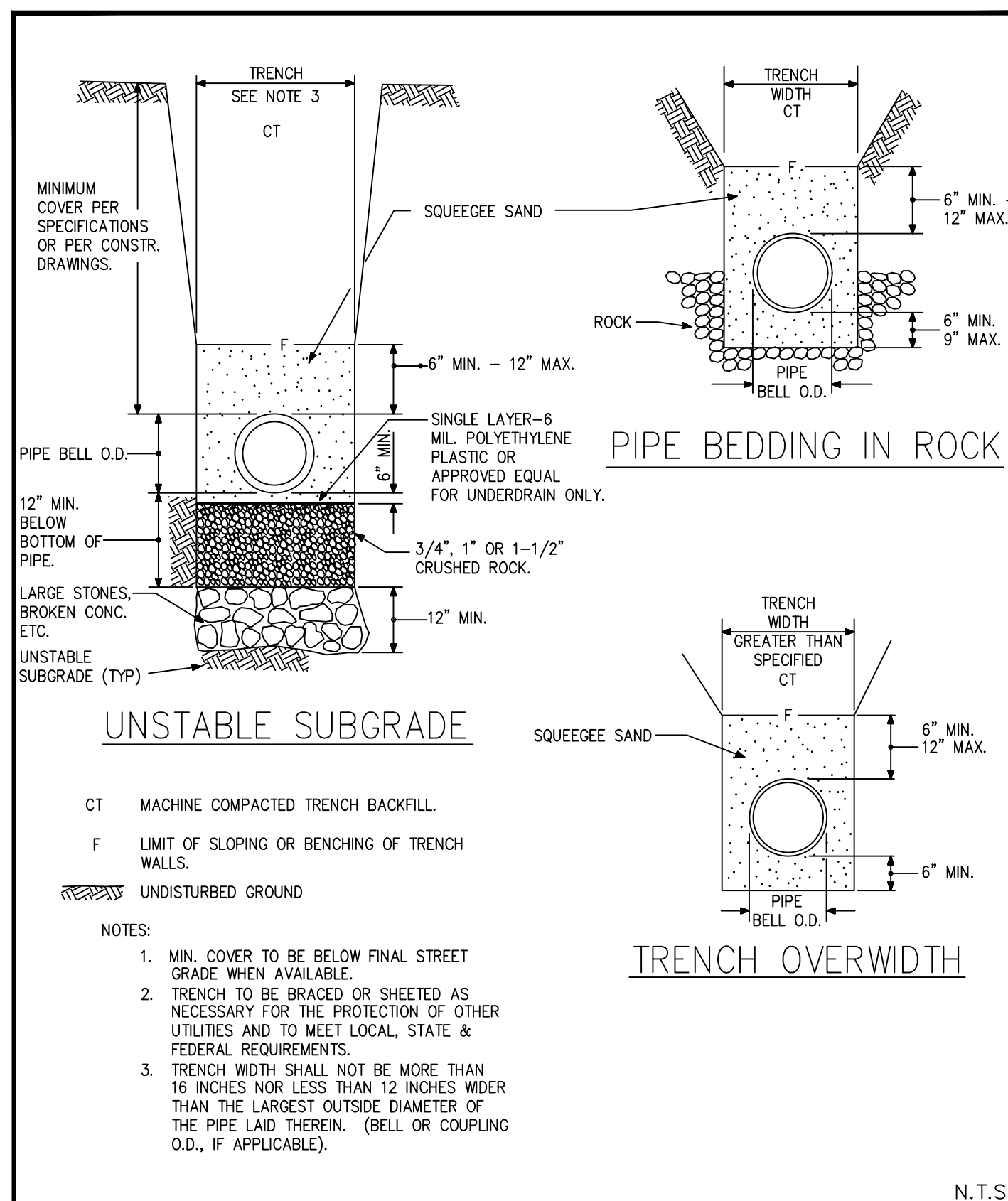
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PRV DETAILS
2025 TREATED WATER SYSTEM IMPROVEMENTS
PRV REPLACEMENT PROJECT
2026
THORNTON, CO

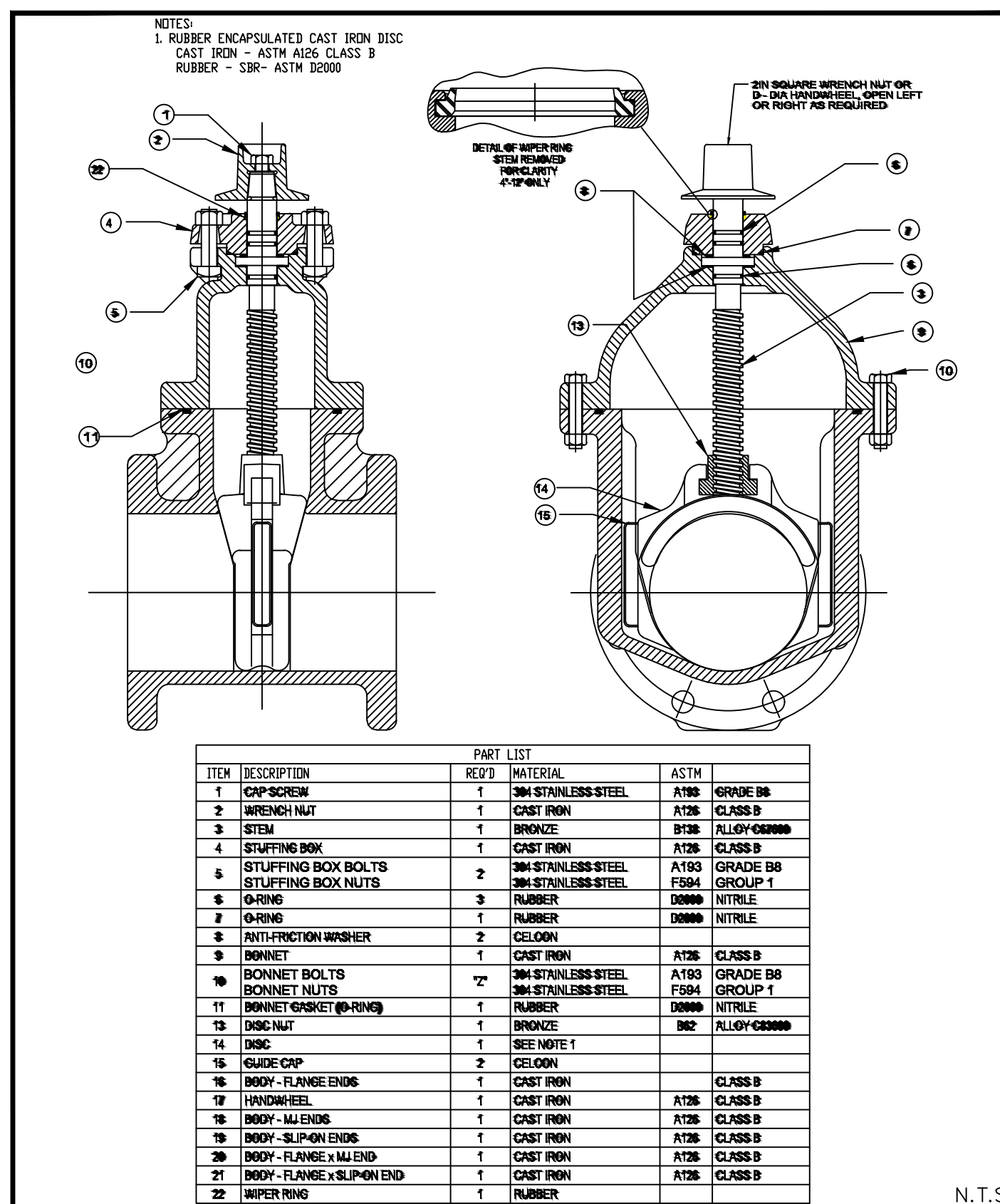
drawn by: LSH
designed by: LSH
project no.: 025-02628
date: 4/30/2026

SHEET C102

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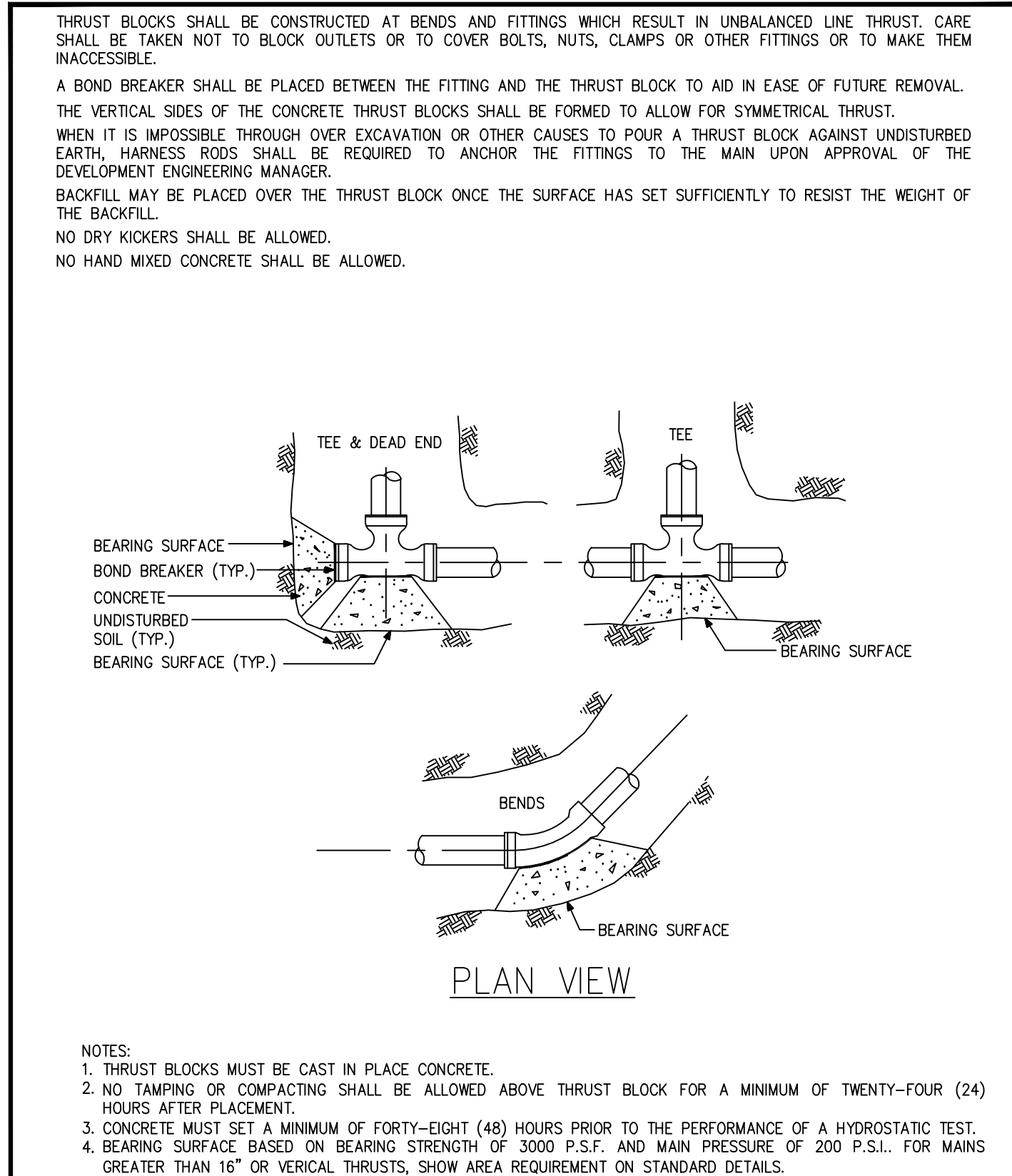
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		REVISED: APRIL 2010	
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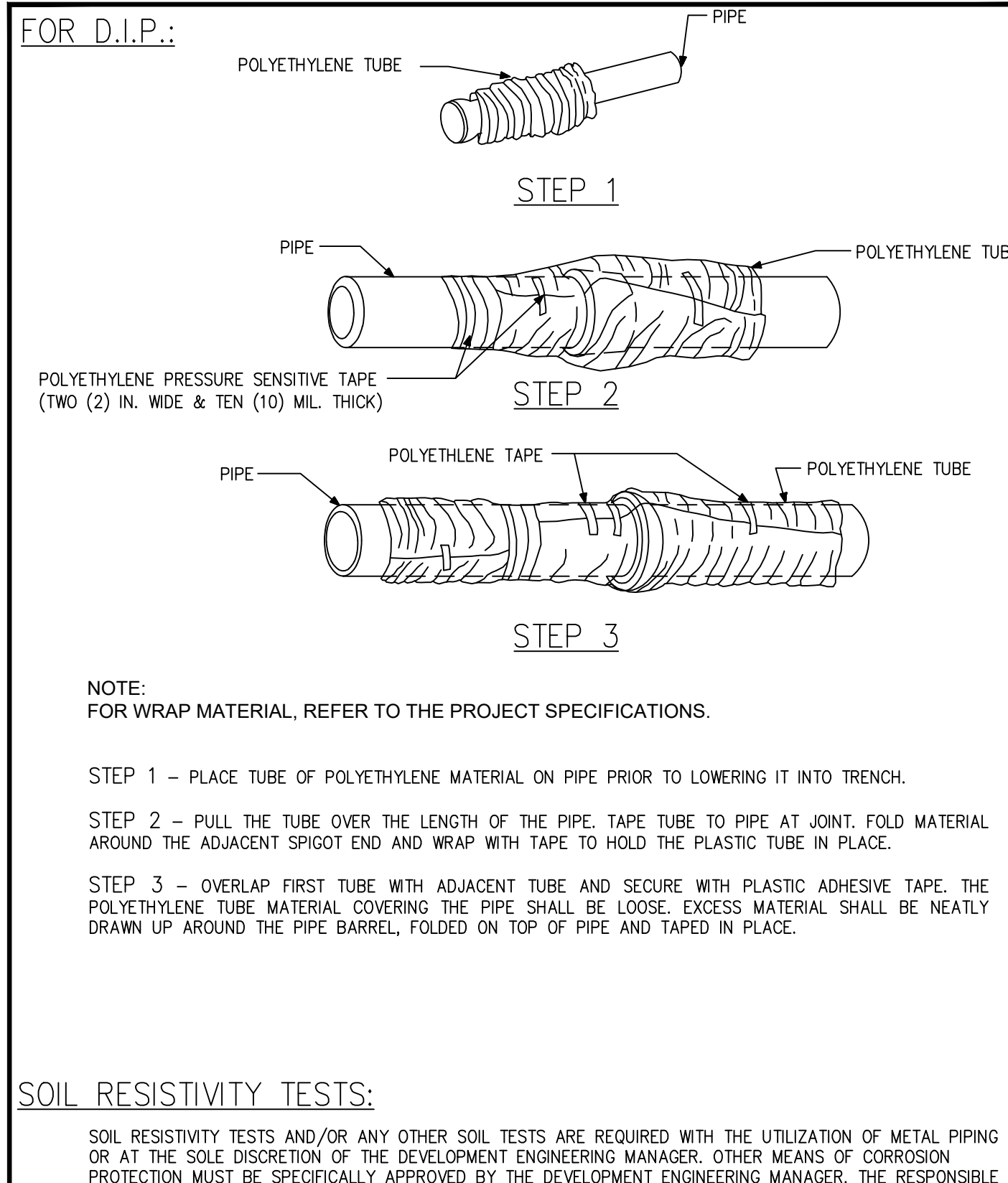
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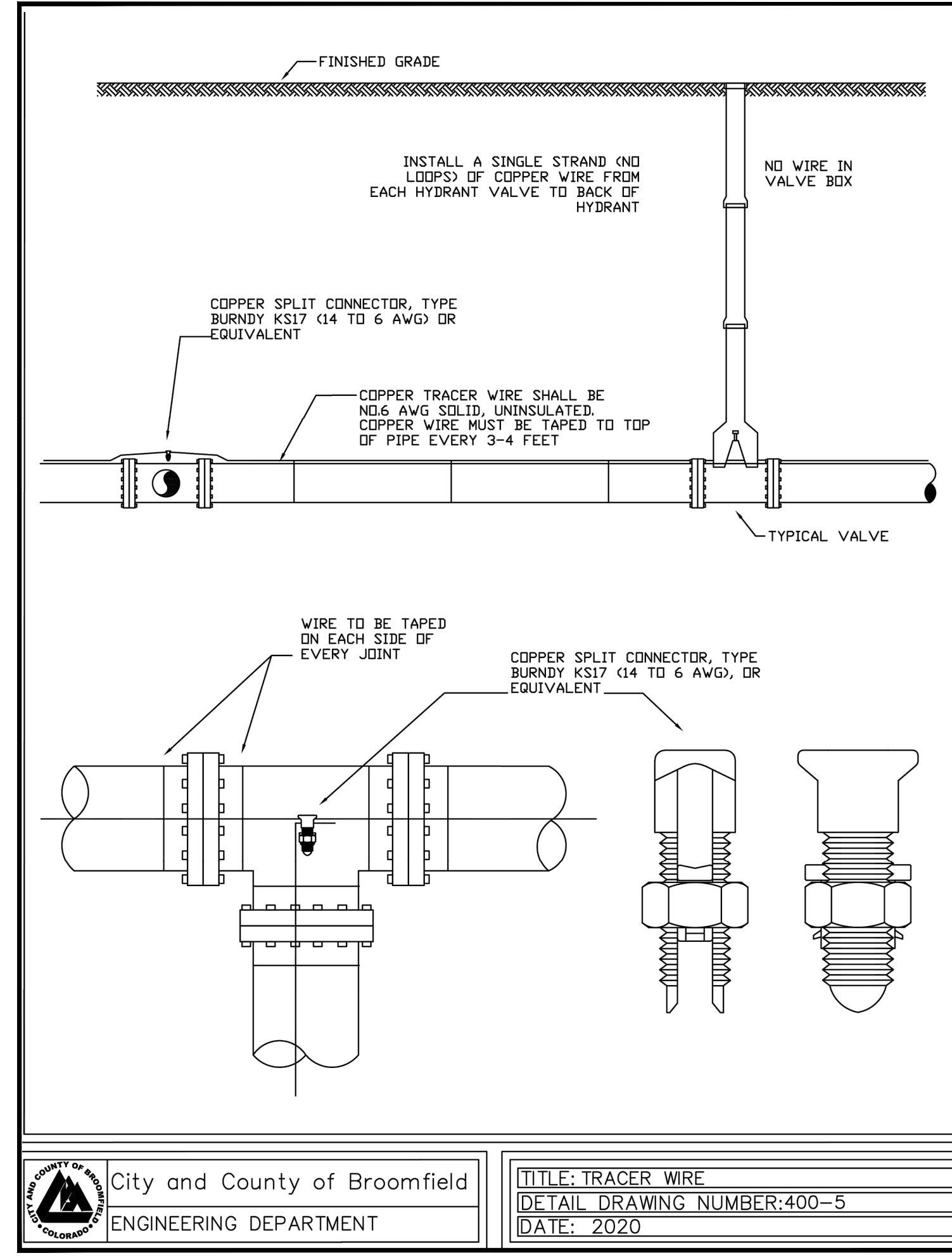
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		DETAIL DRAWING NUMBER: 400-5
		DATE: 2020

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BY	
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DATE	
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2025 TREATED WATER SYSTEM IMPROVEMENTS
PRV REPLACEMENT PROJECT

2026

THORNTON, CO

drawn by: _____ LSH
designed by: _____ LSH
project no.: 025-02628
date: 4/30/2026

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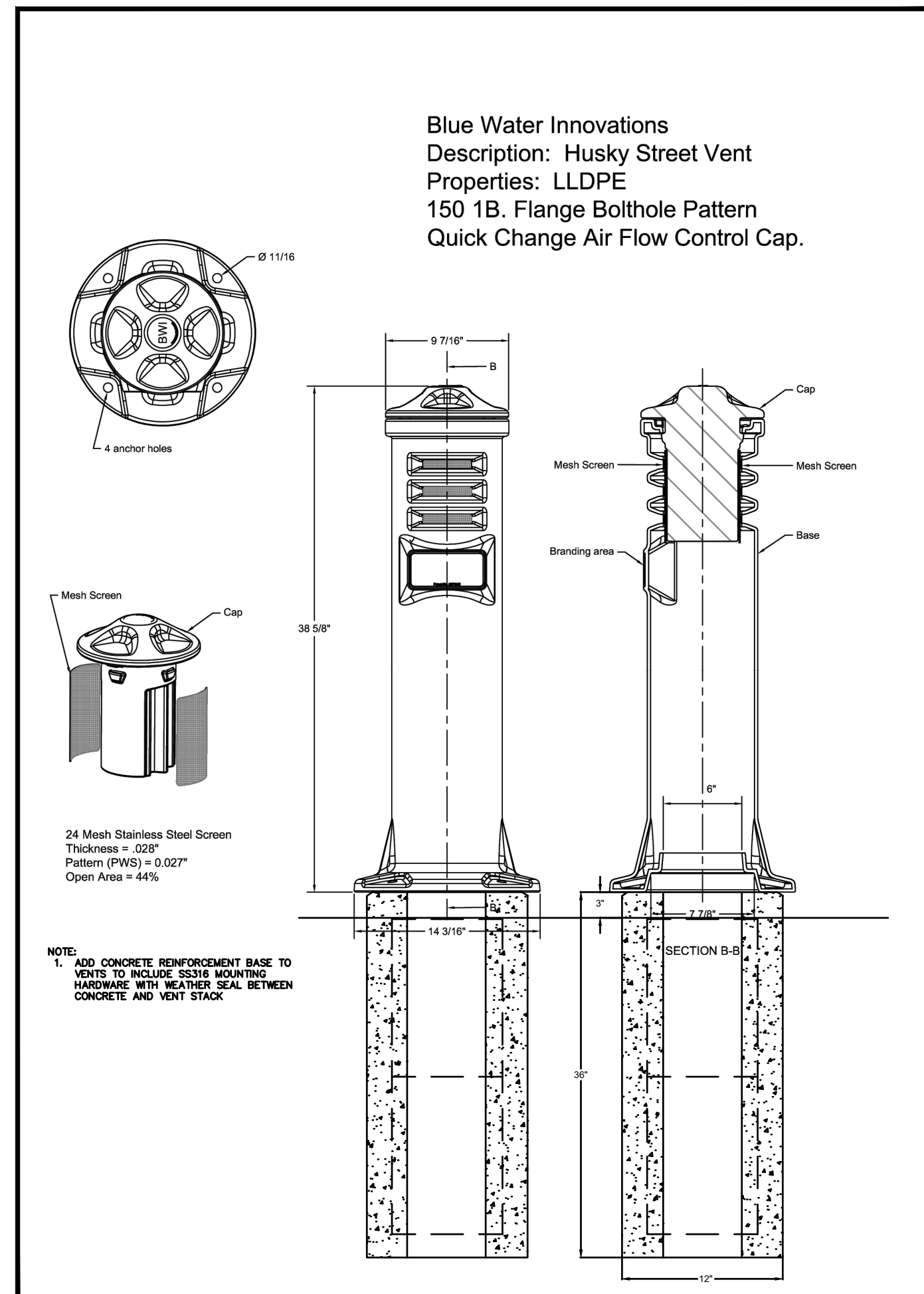
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

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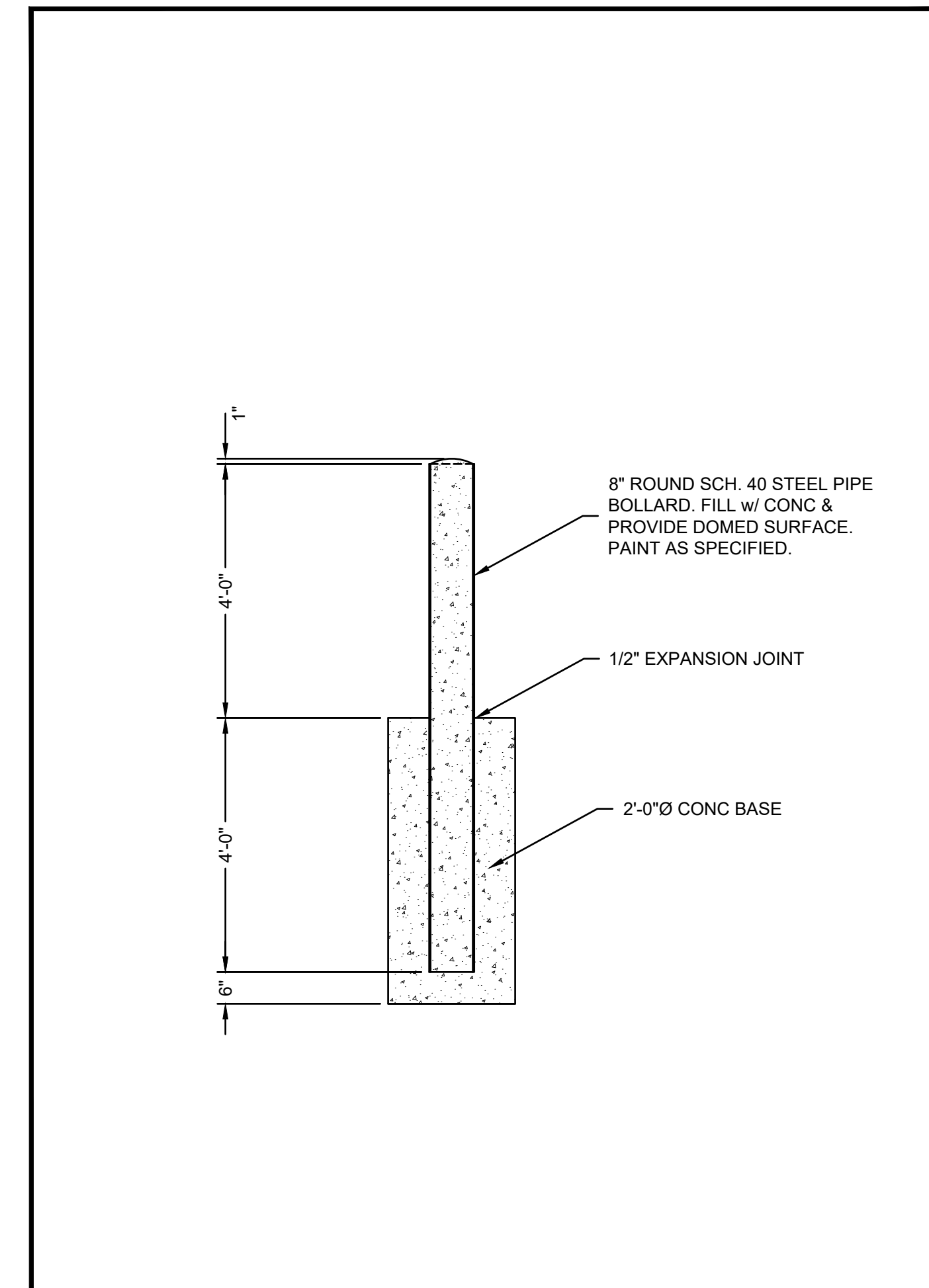
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VENT DETAIL
 SCALE: N.T.S.



BOLLARD DETAIL
 SCALE: 1/2" = 1'-0"

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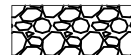
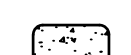


REV. NO.	DATE	DESCRIPTION	BY

UTILITY DETAILS	2026
2025 TREATED WATER SYSTEM IMPROVEMENTS PRV REPLACEMENT PROJECT	
THORNTON, CO	

drawn by: LSH
 designed by: LSH
 project no.: 025-02626
 date: 4/30/2026

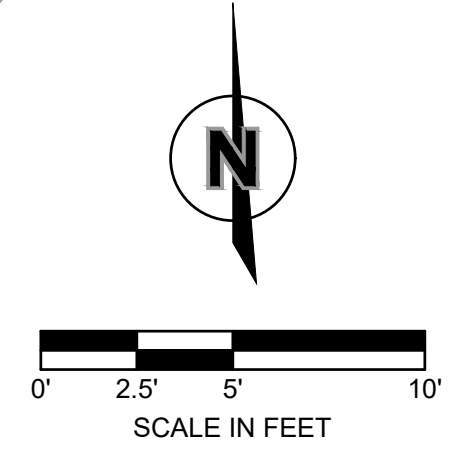
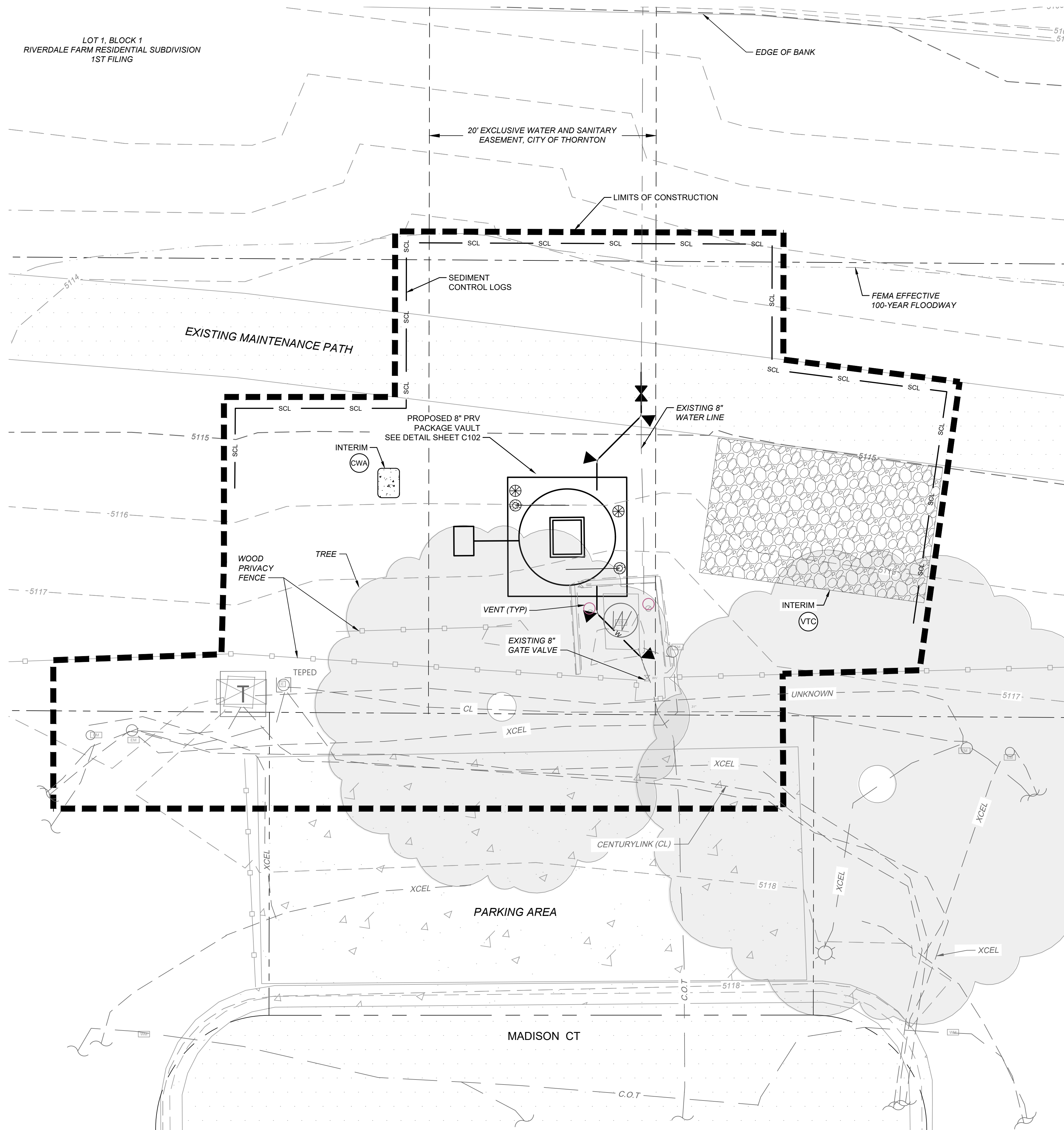
**SHEET
 C104**

EROSION AND SEDIMENT CONTROL LEGEND

-  (RS) ROCK SOCK
-  (VTC) VEHICLE TRACKING CONTROL
-  (CWA) CONCRETE WASHOUT
-  (IP) INLET PROTECTION
-  (SCL) SEDIMENT CONTROL LOGS

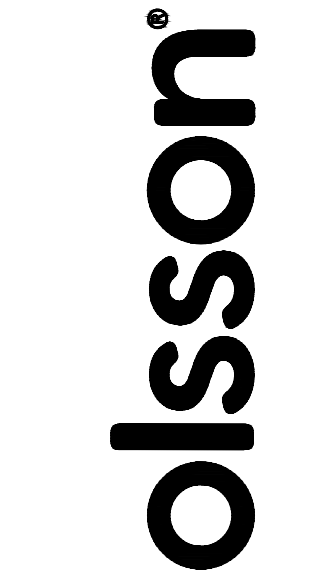
*NOTE: EROSION CONTROL DETAILS ARE ON SHEET C107 AND C108.

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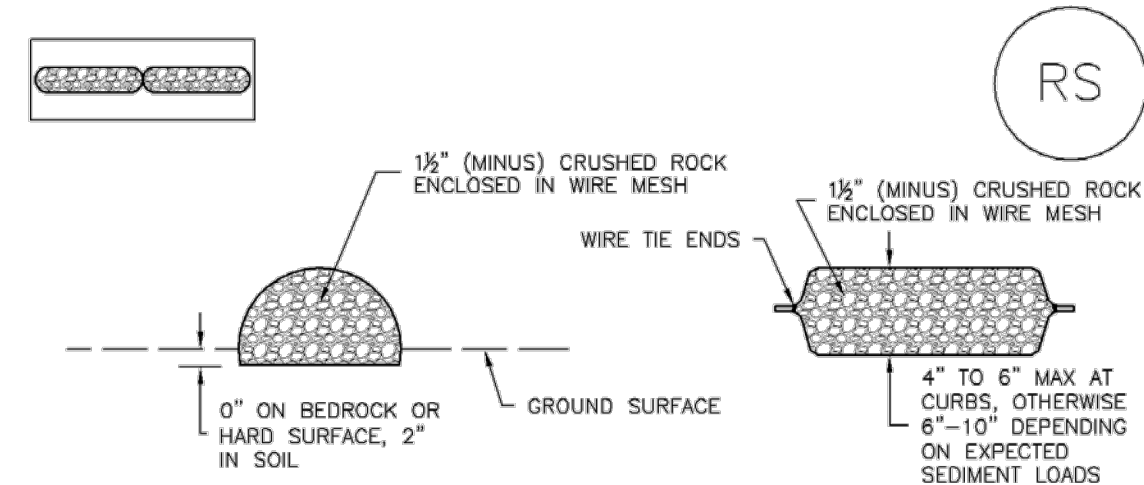
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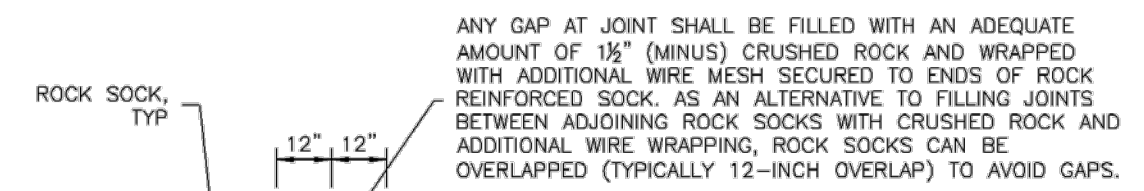
REV. NO.	DATE	DESCRIPTION	BY

EROSION AND SEDIMENT CONTROL PLAN	2026	REVISIONS
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THORNTON, CO		
drawn by: _____ LSH	designed by: _____ LSH	project no.: _____ 025-02626
date: _____ 4/30/2026		SHEET C106



ROCK SOCK SECTION

ROCK SOCK PLAN



ROCK SOCK JOINTING

GRADATION TABLE	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
	NO. 4
2"	100
1 1/2"	90 - 100
1"	20 - 55
3/4"	0 - 15
3/8"	0 - 5

MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER ASHTO M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL

RS-2 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

ROCK SOCK MAINTENANCE NOTES

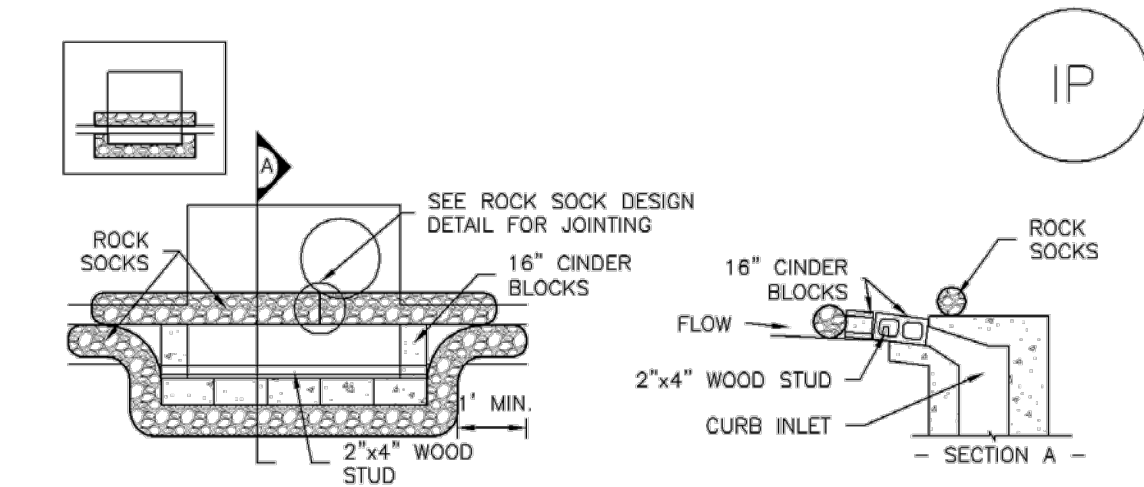
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
- SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
- ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

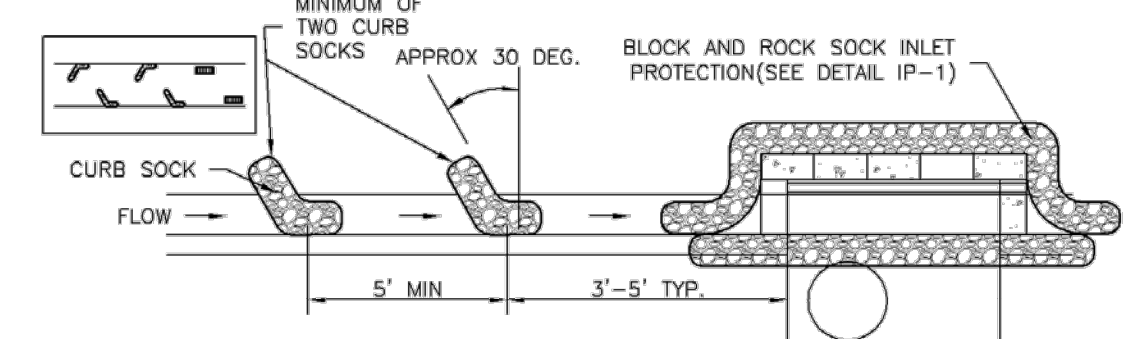
NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

November 2010 Urban Drainage and Flood Control District RS-3
Urban Storm Drainage Criteria Manual Volume 3



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

- BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES
- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
 - 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.
 - GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

- CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES
- SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
 - PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
 - SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
 - AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-4 Urban Drainage and Flood Control District August 2013
Urban Storm Drainage Criteria Manual Volume 3

GENERAL INLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

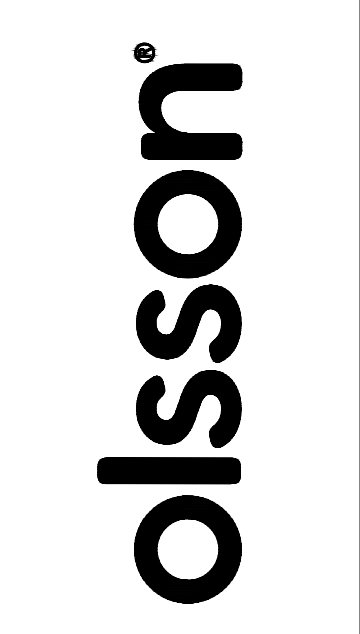
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NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

IP-8 Urban Drainage and Flood Control District August 2013
Urban Storm Drainage Criteria Manual Volume 3



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REV. NO.	DATE	DESCRIPTION	BY

EROSION AND SEDIMENT CONTROL DETAILS
2025 TREATED WATER SYSTEM IMPROVEMENTS
PRV REPLACEMENT PROJECT
THORNTON, CO
2026

drawn by: LSH
designed by: LSH
project no.: 025-02628
date: 4/30/2026

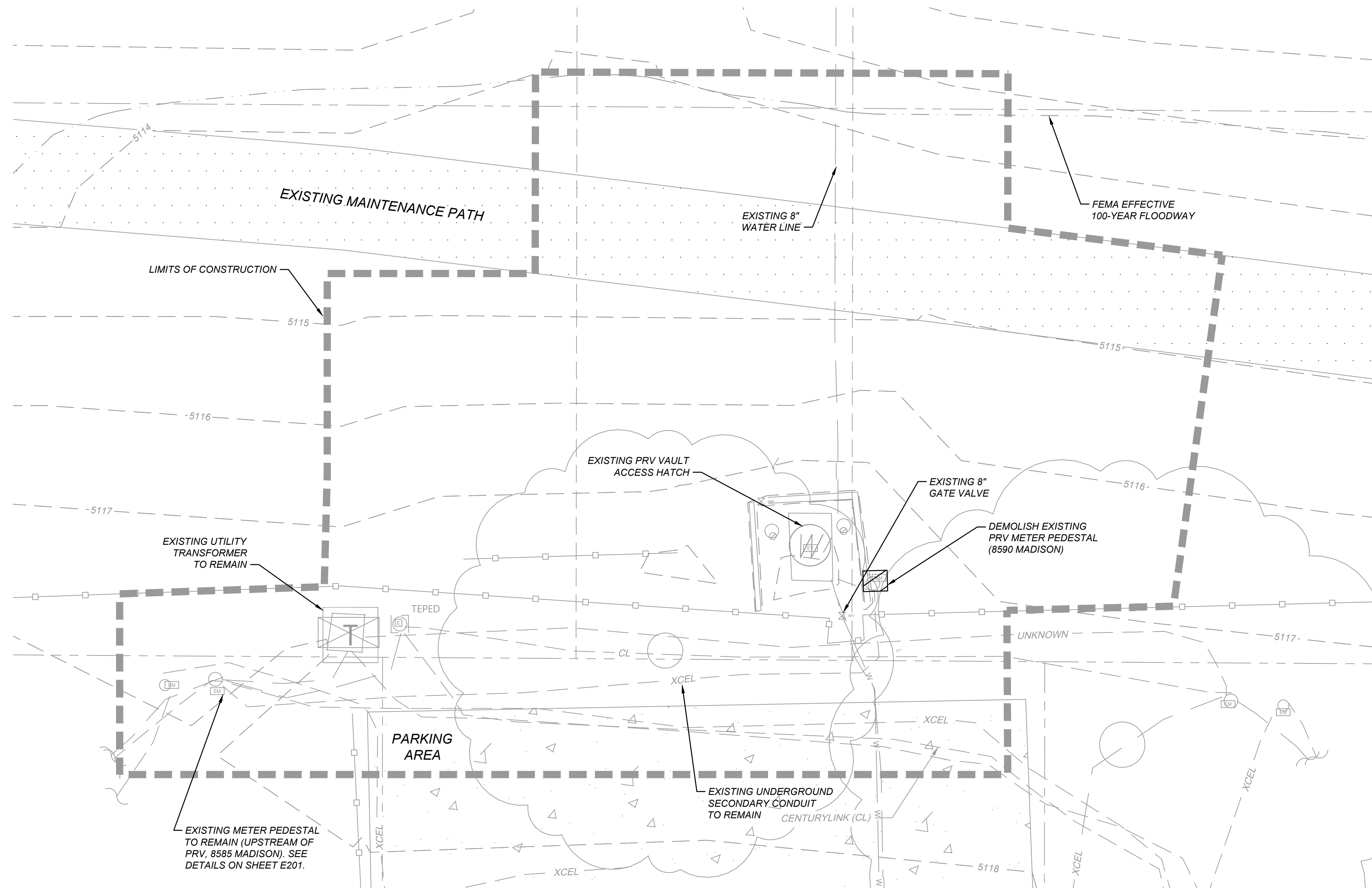
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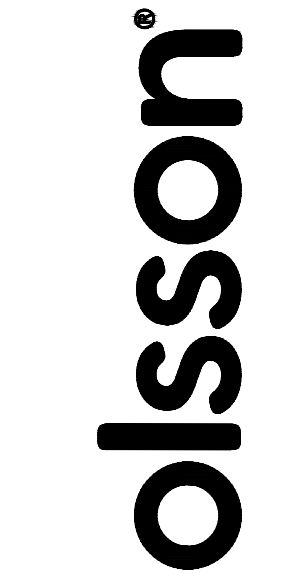
DEMOLITION LEGEND

 REMOVE EXISTING EQUIPMENT



GENERAL DEMOLITION NOTES:

- A. OWNER HAS FIRST RIGHT TO ALL EQUIPMENT BEING DEMOLISHED. COORDINATE ITEMS TO BE SALVAGED WITH THE OWNER.
- B. ALL HATCHED DEVICES SHALL BE REMOVED. ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL EQUIPMENT THAT IS SHOWN TO BE REMOVED.
- C. WHERE CIRCUITS WILL NOT BE REUSED, REMOVE CONDUITS TO BEHIND FINISHED SURFACE, ALL WIRING ASSOCIATED WITH DEMOLISHED DEVICES SHALL BE REMOVED BACK TO ITS SOURCE. CONDUITS EMBEDDED IN CONCRETE SHALL BE CUT BACK AS FAR AS POSSIBLE AND PLUGGED WITH EPOXY.
- D. ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING ELECTRICAL EQUIPMENT NOT DESIGNATED TO BE REMOVED.
- E. SITE VERIFY ELECTRICAL THAT WILL HAVE TO BE REMOVED.



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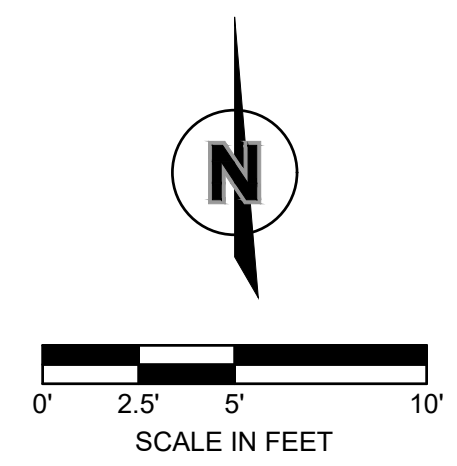
ELECTRICAL DEMOLITION PLAN	2025 TREATED WATER SYSTEM IMPROVEMENTS PRV REPLACEMENT PROJECT	2026
	THORNTON, CO	

drawn by: _____ RCN
designed by: _____ RHM
project no.: _____ 025-02628
date: _____ 3/31/2026

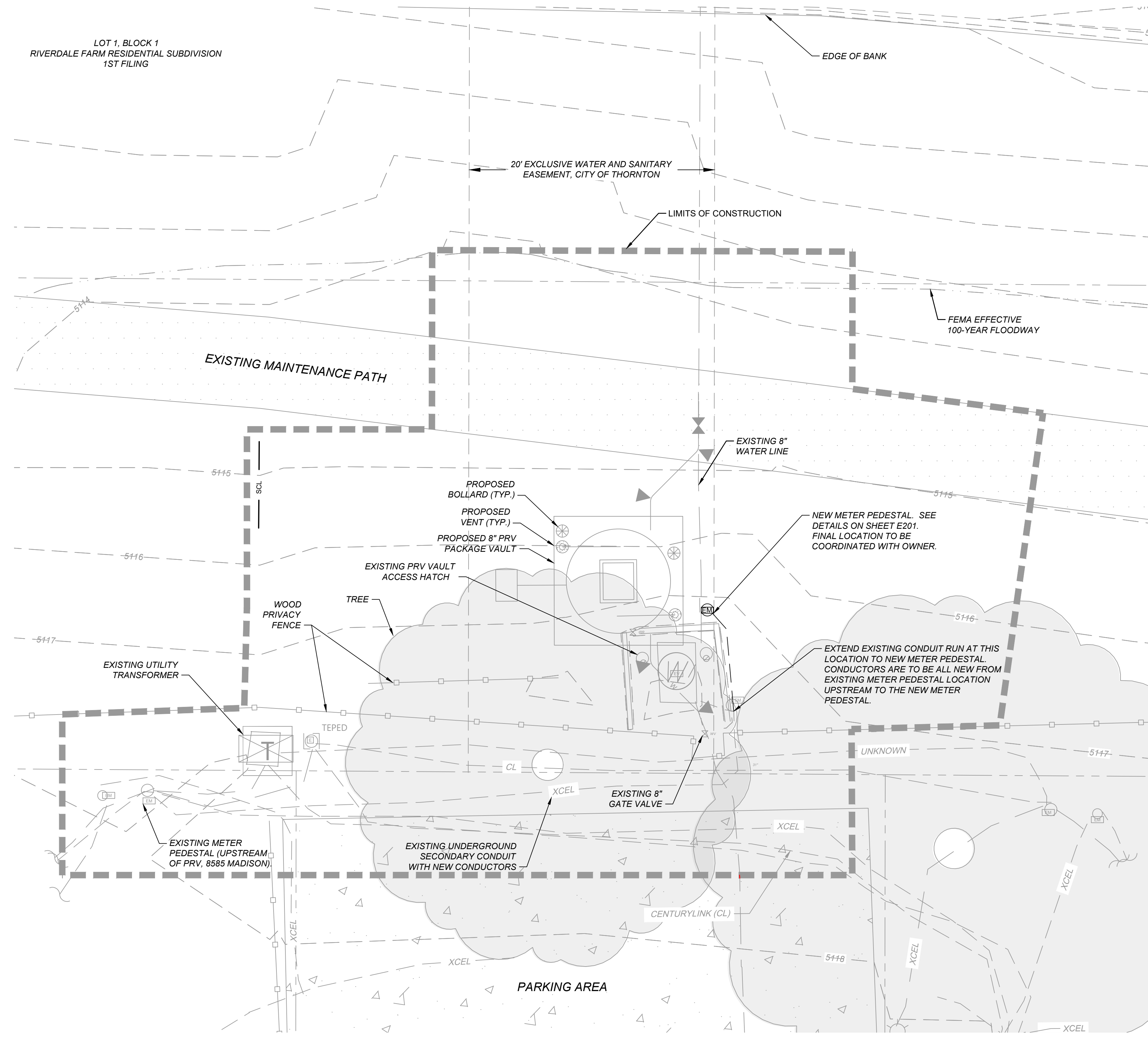
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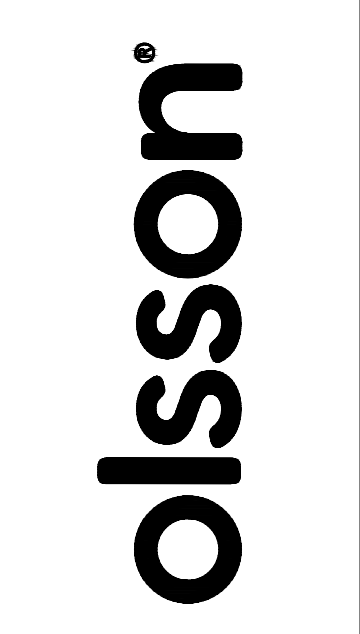


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GENERAL POWER NOTES:

- A. INSTALL A DEDICATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH THE NEC, NO. 12 CU. MIN.
- B. ALL CONDUIT THAT IS LEFT EMPTY SHALL INCLUDE A PULL STRING THROUGHOUT LENGTH AND 12" ADDITIONAL AT EACH END.



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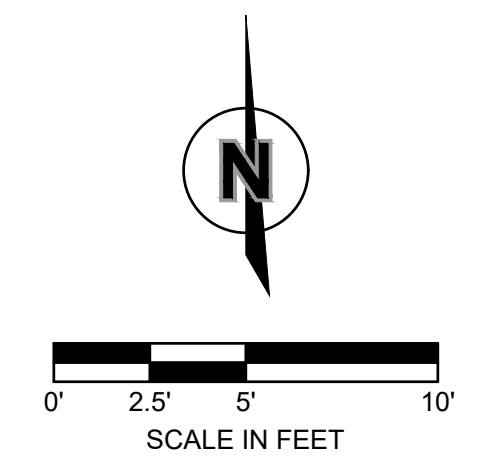
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		THORNTON, CO

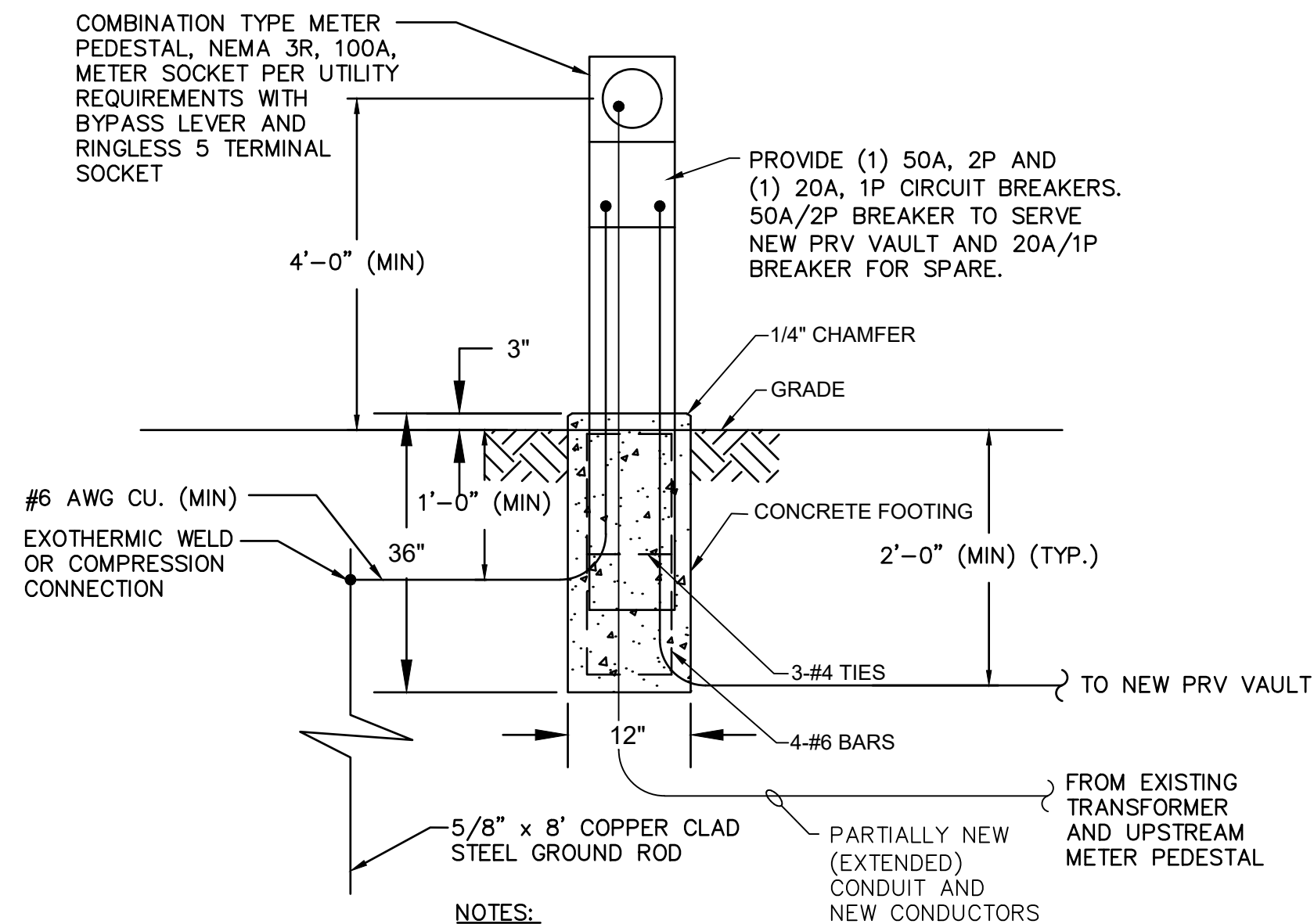
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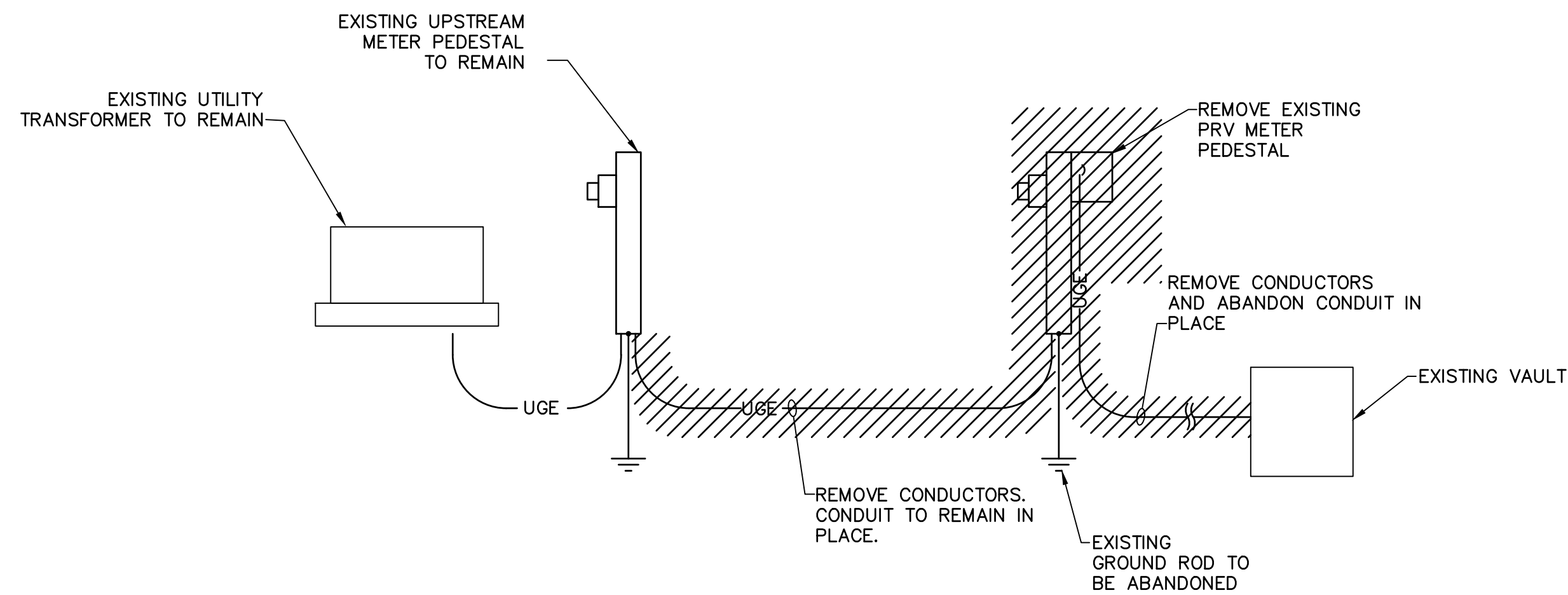
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 3-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



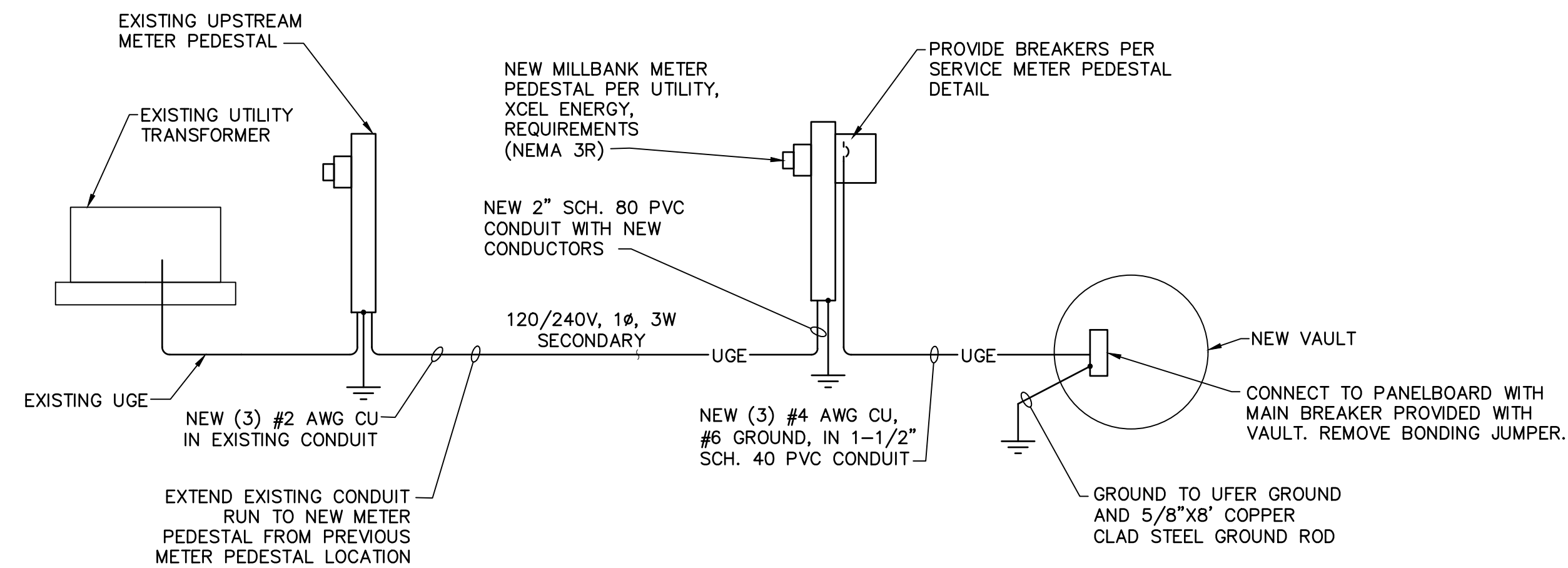


- NOTES:
- COORDINATE INSTALLATION WITH UTILITY COMPANY AND COMPLY WITH THEIR INSTALLATION REQUIREMENTS.

1 SERVICE METER PEDESTAL
Scale: NTS



2 EXISTING RISER DIAGRAM
Scale: NTS



3 NEW RISER DIAGRAM
Scale: NTS

REV. NO.	DATE	DESCRIPTION	BY

ELECTRICAL DETAILS	2025 TREATED WATER SYSTEM IMPROVEMENTS PRV REPLACEMENT PROJECT	2026
	THORNTON, CO	

drawn by: RCN
designed by: RHM
project no.: 025-02626
date: 3/31/2026

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