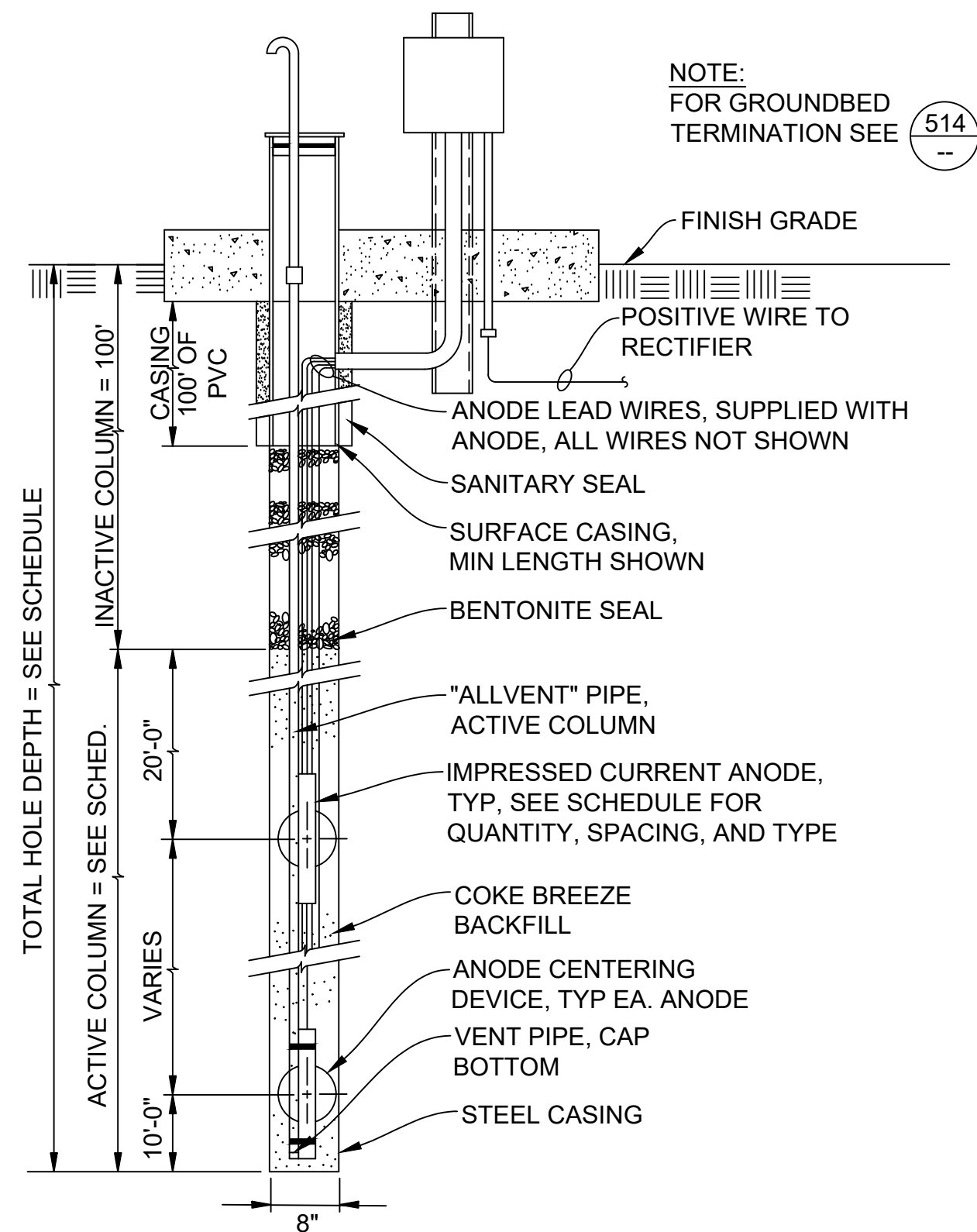


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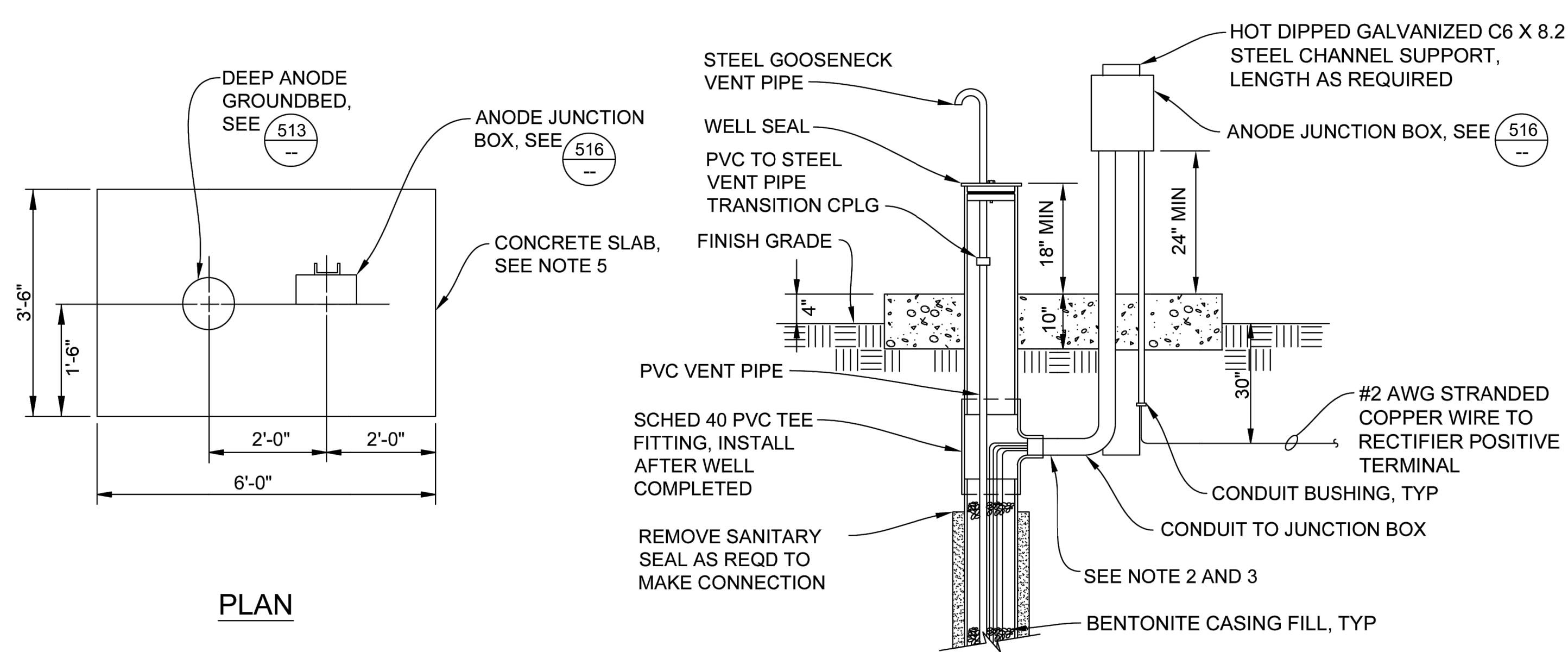
SHEET TITLE
DETAILS

SHEET NUMBER

D.1.5

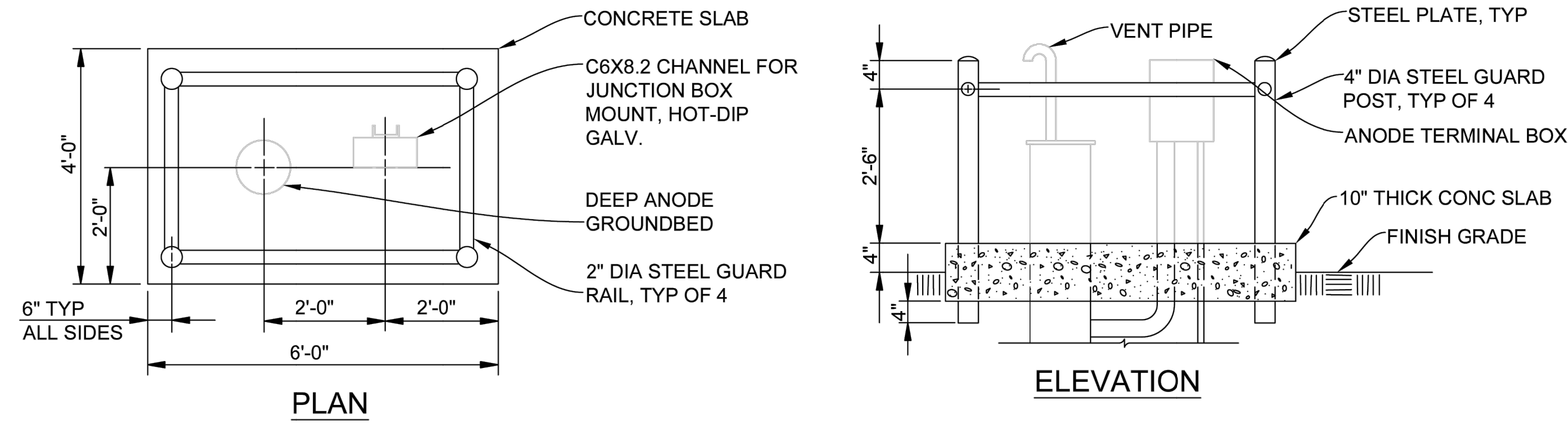


513 TYPE 1 - DEEP ANODE GROUND BED
- NTS



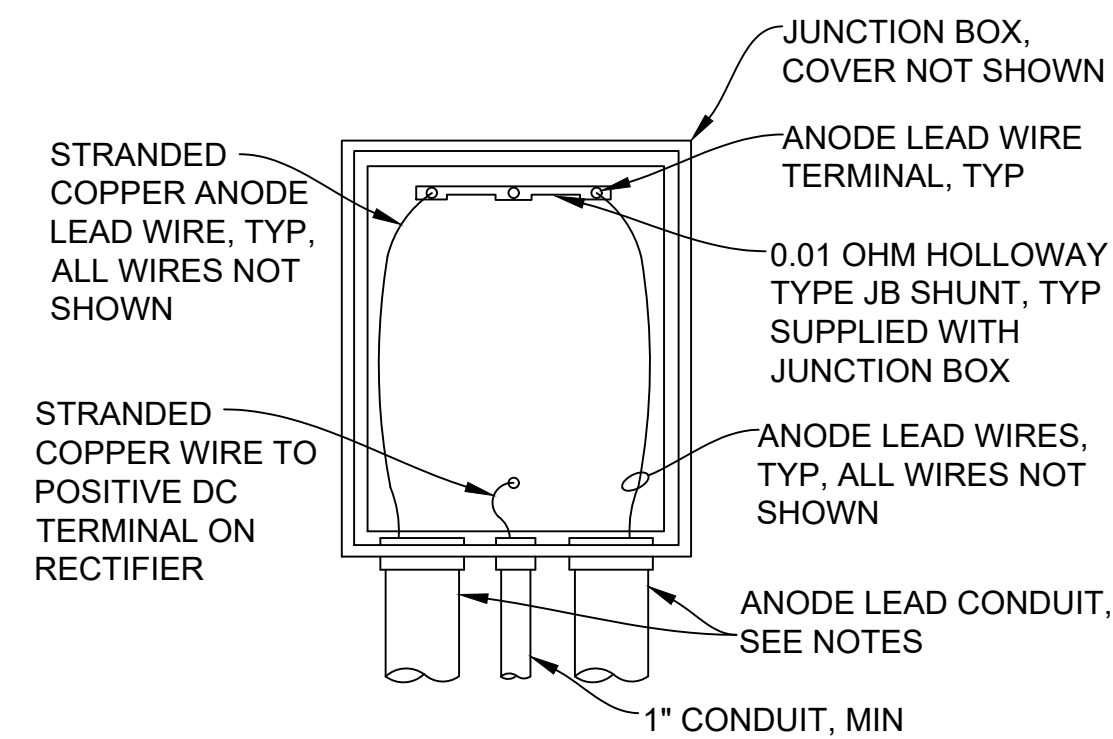
- NOTES:
1. PROTECT WIRES FROM NICKS, CUTS, OR OTHER DAMAGE WHEN CUTTING CASING.
 2. SEAL CONDUIT AT EACH END WITH URETHANE FOAM TO PREVENT ENTRY OF GROUNDBED GASES OR MOISTURE INTO JUNCTION BOX.
 3. ALL BURIED CASING AND CONDUIT JOINTS TO BE SOLVENT WELDED FOR WATERTIGHT CONNECTIONS.
 4. FINISH GRADE AWAY FROM WELL CASING.
 5. FINISH CONCRETE SLAB TO DRAIN WATER OFF SLAB AND AWAY FROM ALL SURFACE MOUNTED EQUIPMENT AND SUPPORTS AND PROTECTIVE RAILS.

514 TYPE 1 - SURFACE CASING AND TERMINATION
- NTS



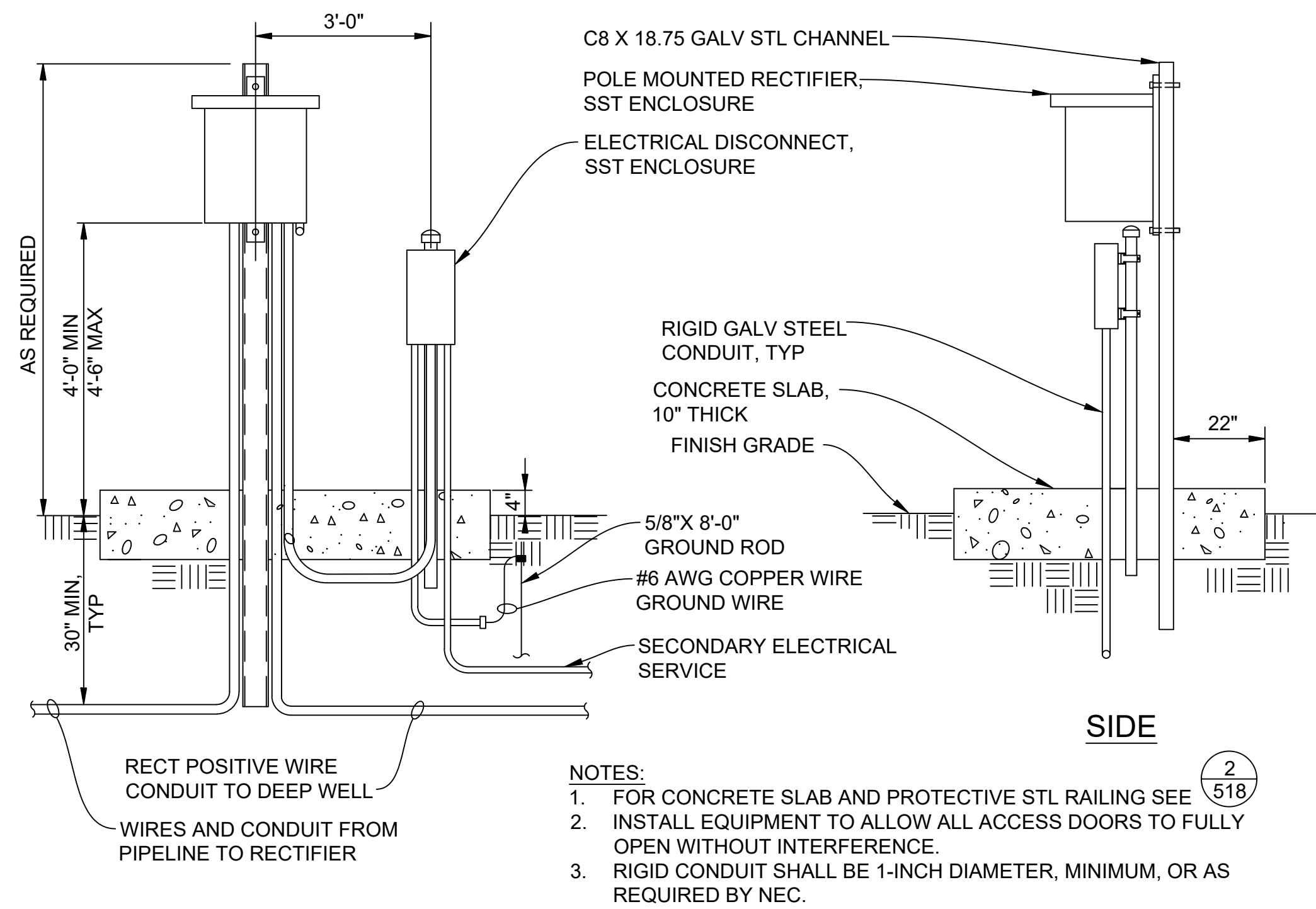
- NOTES:
1. BOLT TWO FRONT RAILS TO GUARD POSTS AND WELD ALL REMAINING RAILS TO GUARD POSTS
 2. ORIENTATION OF ANODE JUNCTION BOX TO BE DETERMINED IN THE FIELD.
 3. HOT DIP GALVANIZE GUARD RAIL AND VENT PIPE AFTER FABRICATION.
 4. ORIENT EQUIP TO ALLOW ACCESS DOORS TO FULLY OPEN WITHOUT OBSTRUCTION.

515 GROUNDBED GUARD RAIL
- NTS



- NOTES:
1. SIZE ANODE LEAD CONDUIT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE ONE CONDUIT WITH UP TO 15 ANODES, TWO WITH 16 TO 30 ANODES.

516 ANODE JUNCTION BOX
- NTS



FRONT

SIDE

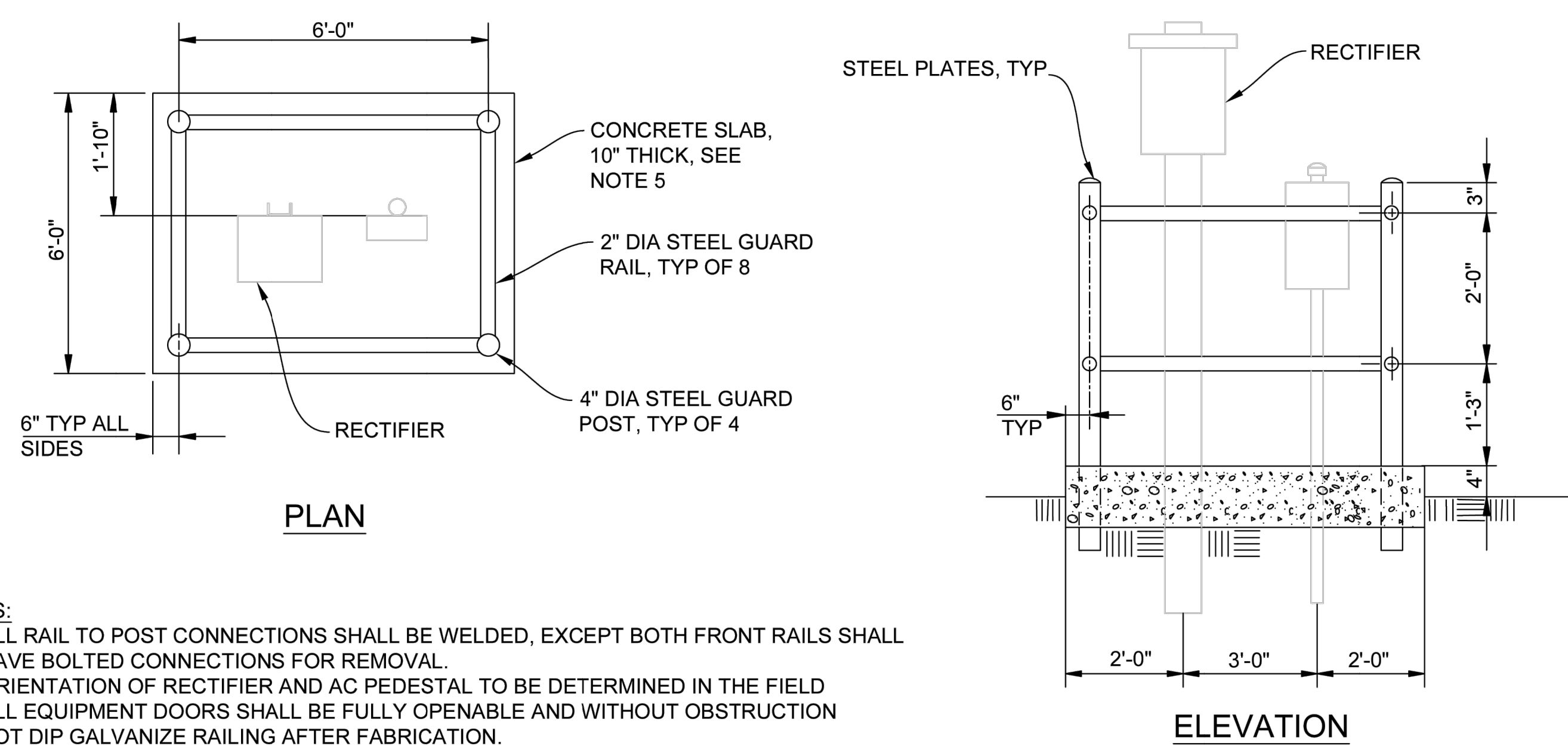
517

TYPE 3 - POLE MOUNTED RECTIFIER

NTS

NOTES:

1. FOR CONCRETE SLAB AND PROTECTIVE STL RAILING SEE 518
2. INSTALL EQUIPMENT TO ALLOW ALL ACCESS DOORS TO FULLY OPEN WITHOUT INTERFERENCE.
3. RIGID CONDUIT SHALL BE 1-INCH DIAMETER, MINIMUM, OR AS REQUIRED BY NEC.



PLAN

ELEVATION

518

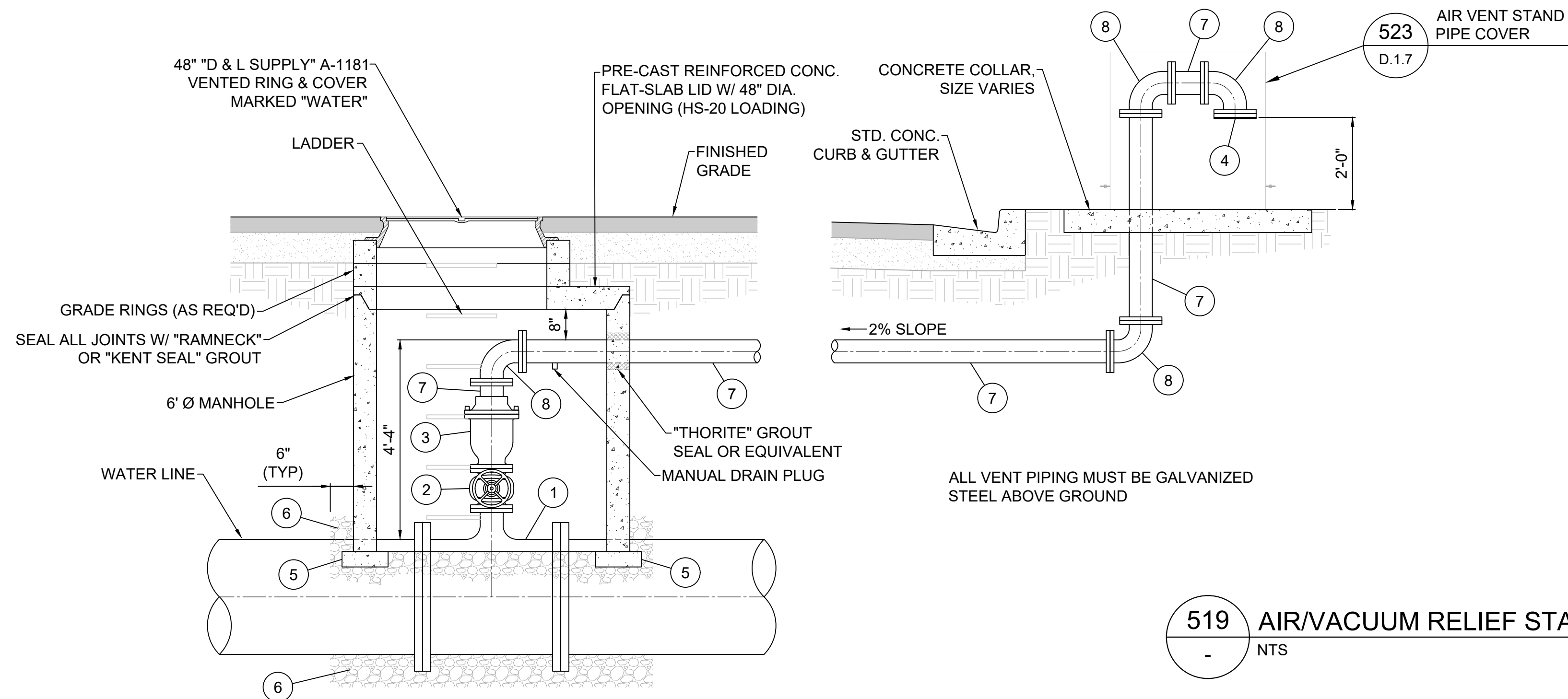
TYPE 1 - RECTIFIER RAIL

NTS

NOTES:

1. ALL RAIL TO POST CONNECTIONS SHALL BE WELDED, EXCEPT BOTH FRONT RAILS SHALL HAVE BOLTED CONNECTIONS FOR REMOVAL.
2. ORIENTATION OF RECTIFIER AND AC PEDESTAL TO BE DETERMINED IN THE FIELD
3. ALL EQUIPMENT DOORS SHALL BE FULLY OPENABLE AND WITHOUT OBSTRUCTION
4. HOT DIP GALVANIZE RAILING AFTER FABRICATION.
5. FINISH CONCRETE SLAB TO DRAIN WATER OFF SLAB AND AWAY FROM ALL SURFACE MOUNTED EQUIPMENT AND SUPPORTS AND PROTECTIVE RAILS.

- 30" x 6" CONNECTION
- 1 30" x 6" FL TEE
 - 2 6" FL GATE VALVE
 - 3 6" FL COMBINATION AIR VALVE MODEL VALMATIC 206C OR APPROVED EQUAL
 - 4 #4 SCREEN AND #14 MESH S.S. SCREEN
 - 5 CONTINUOUS CONCRETE BASE - 1' x 4'
 - 6 DRAIN ROCK
 - 7 6" GALVANIZED STEEL OR SCH 80 PVC
 - 8 6" GALVANIZED STEEL OR SCH 80 PVC 90° BEND

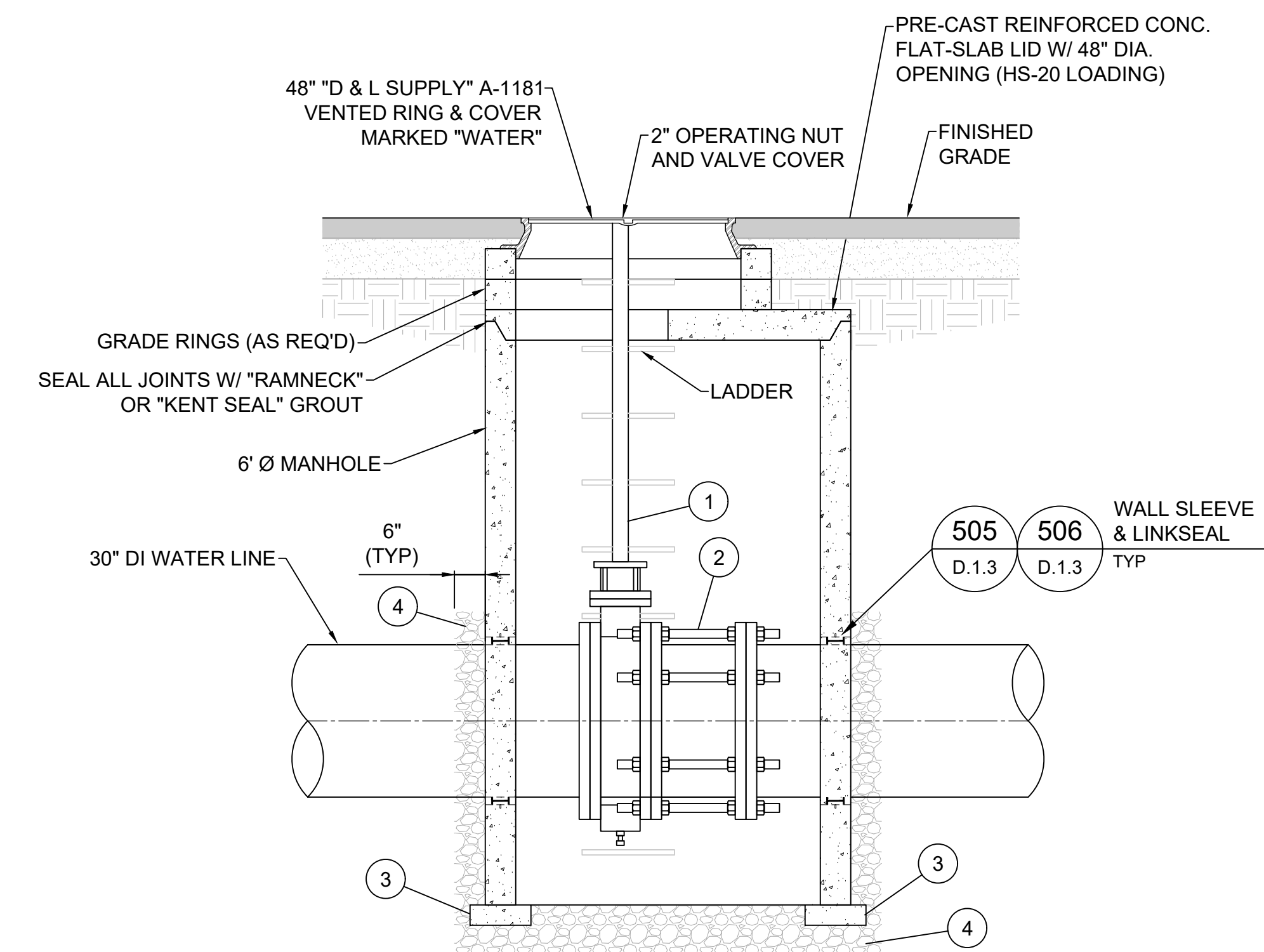


519

AIR/VACUUM RELIEF STATION

NTS

- 1 30" FL DOUBLE ECCENTRIC BUTTERFLY VALVE
- 2 30" DISMANTLING JOINT
- 3 CONTINUOUS CONCRETE BASE - 1' x 4'
- 4 DRAIN ROCK



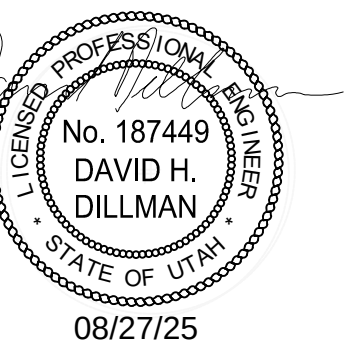
520

30" VALVE VAULT

NTS

WARNING

0 1 2
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PROJECT TITLE

THE POINT
WATER LINES

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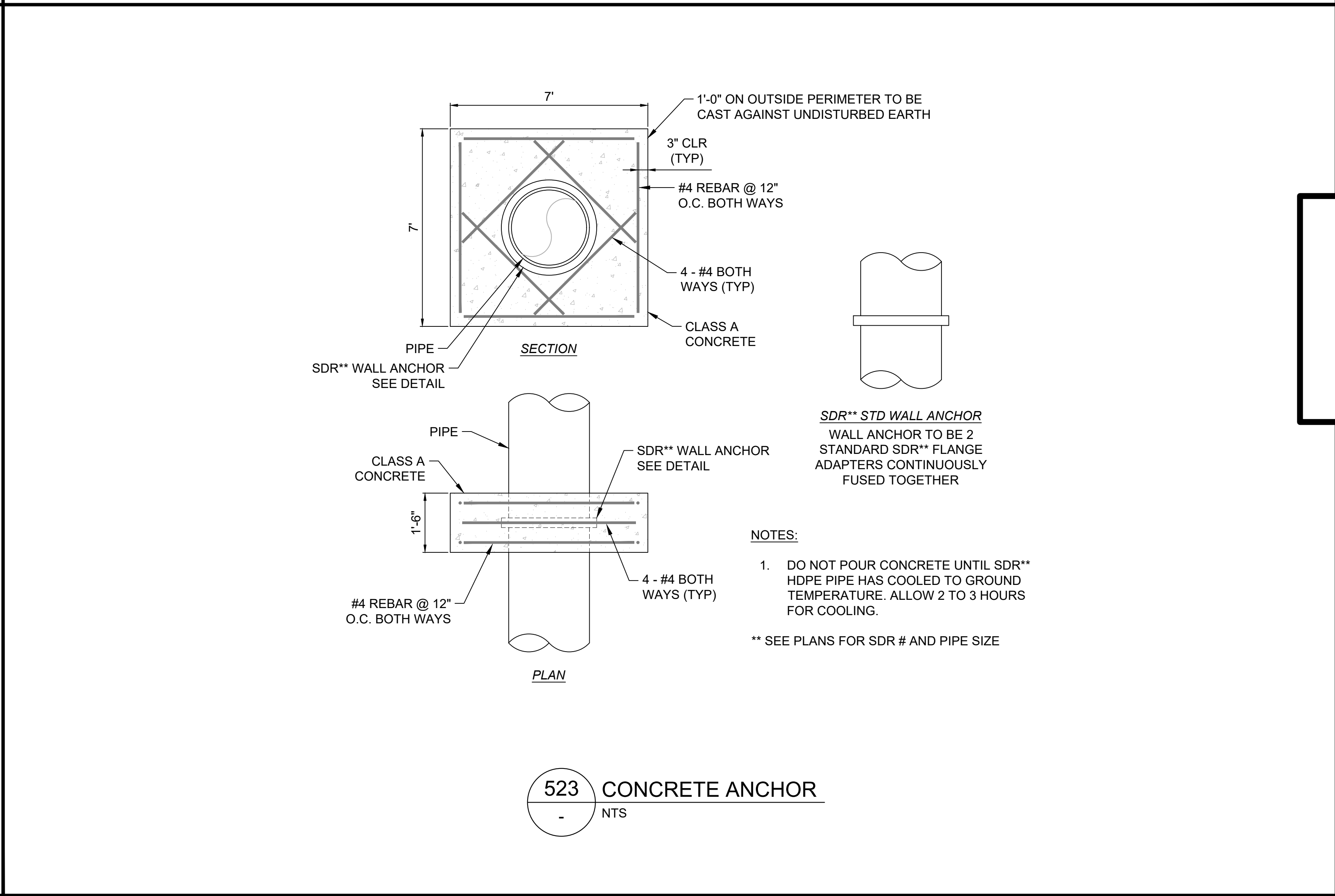
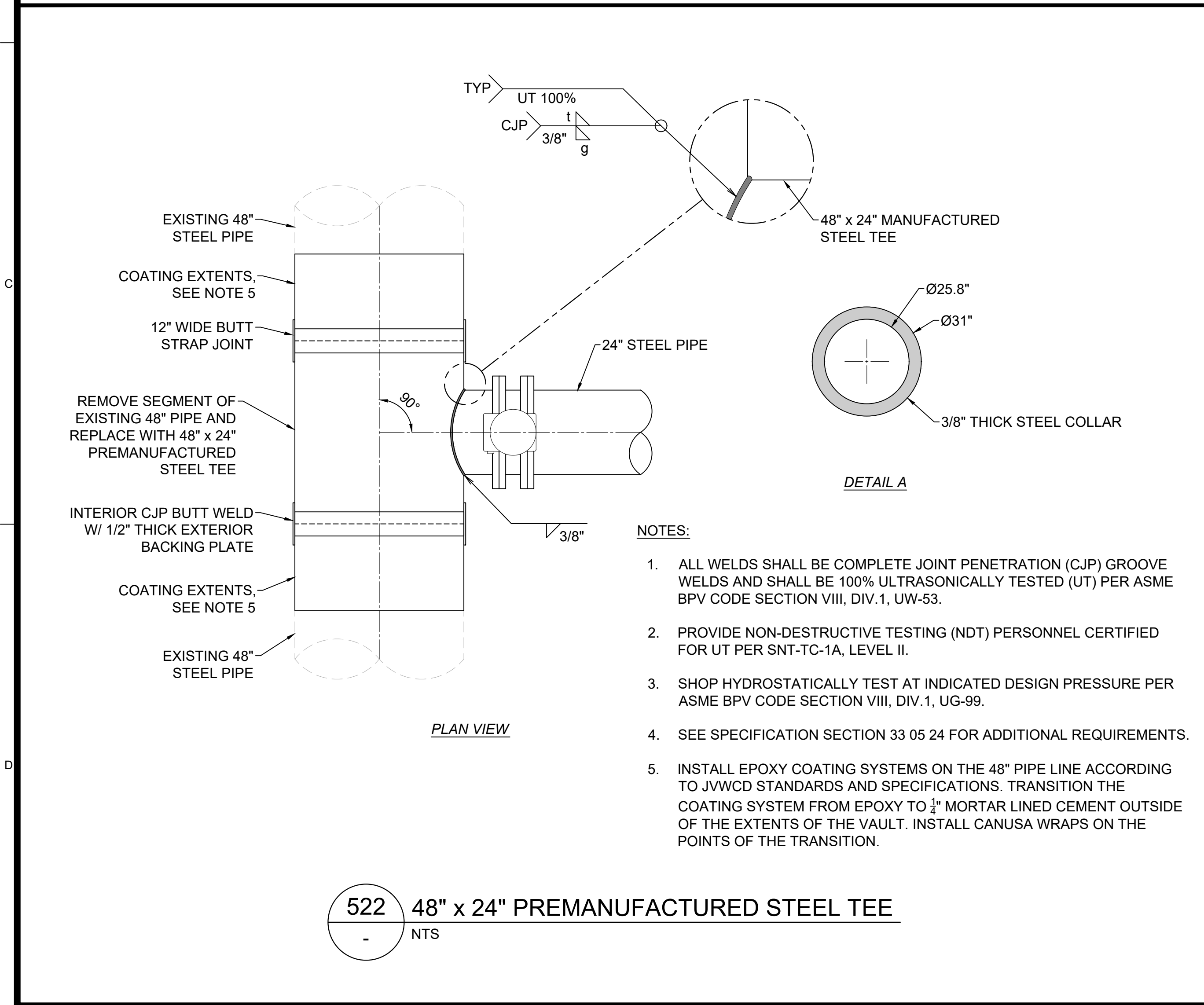
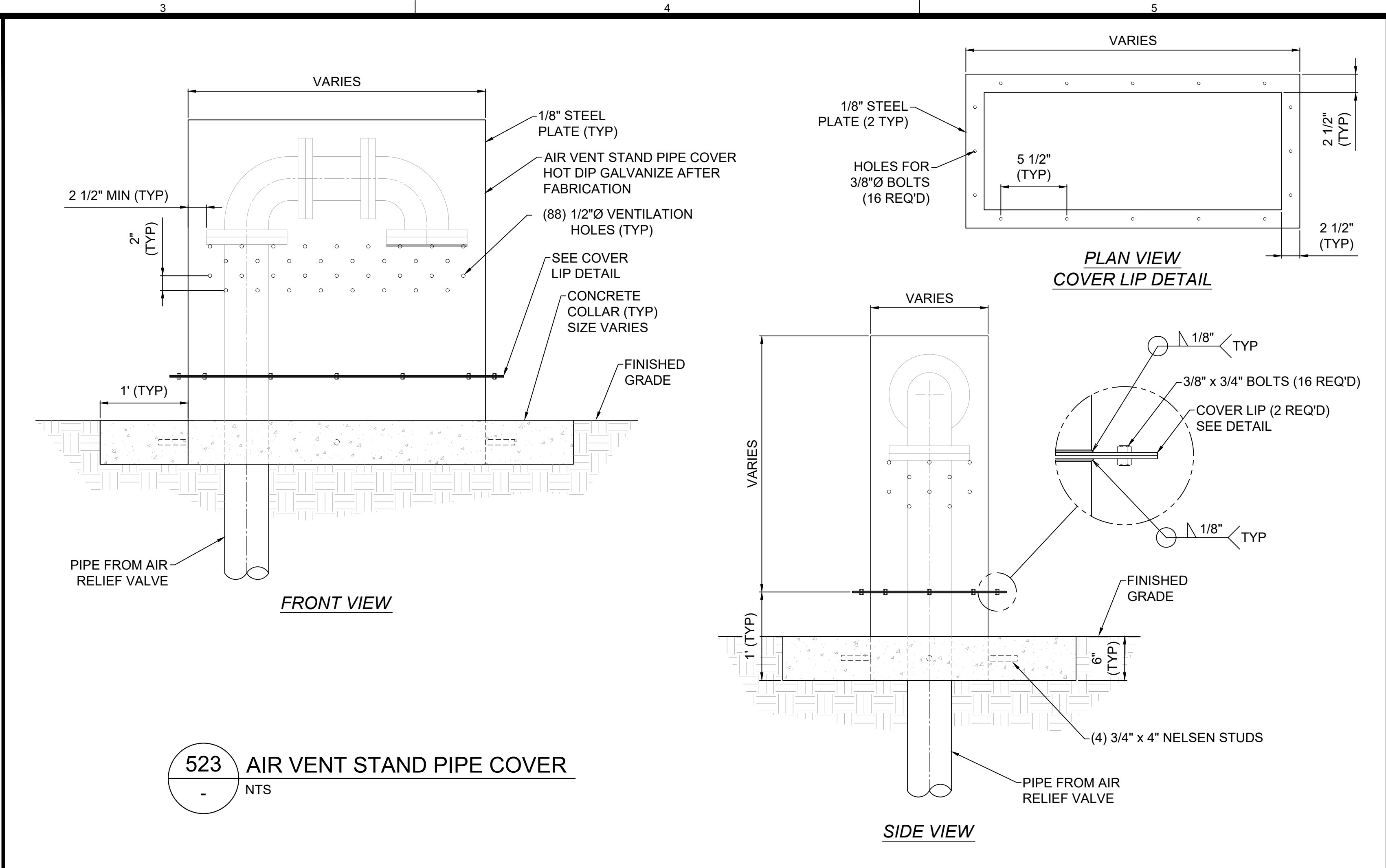
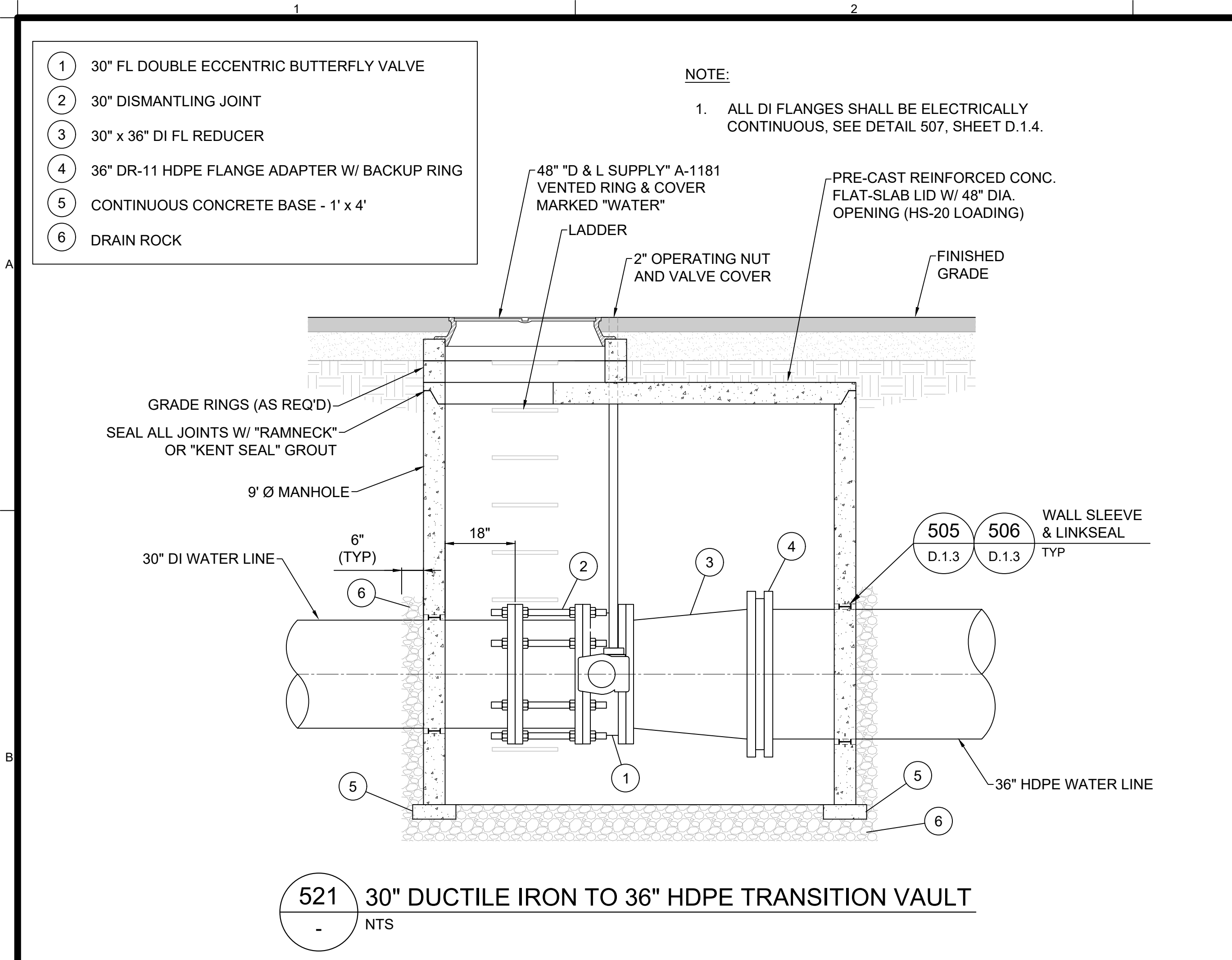
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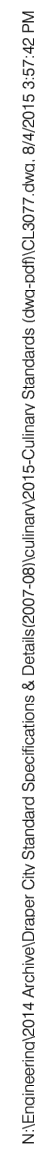
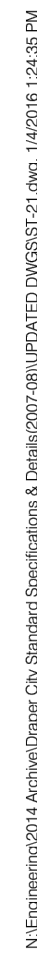
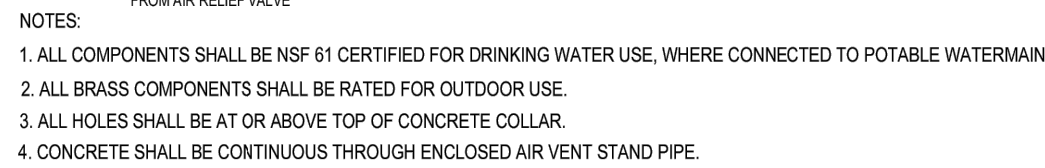
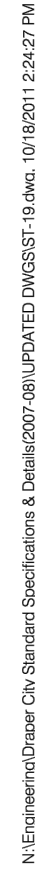
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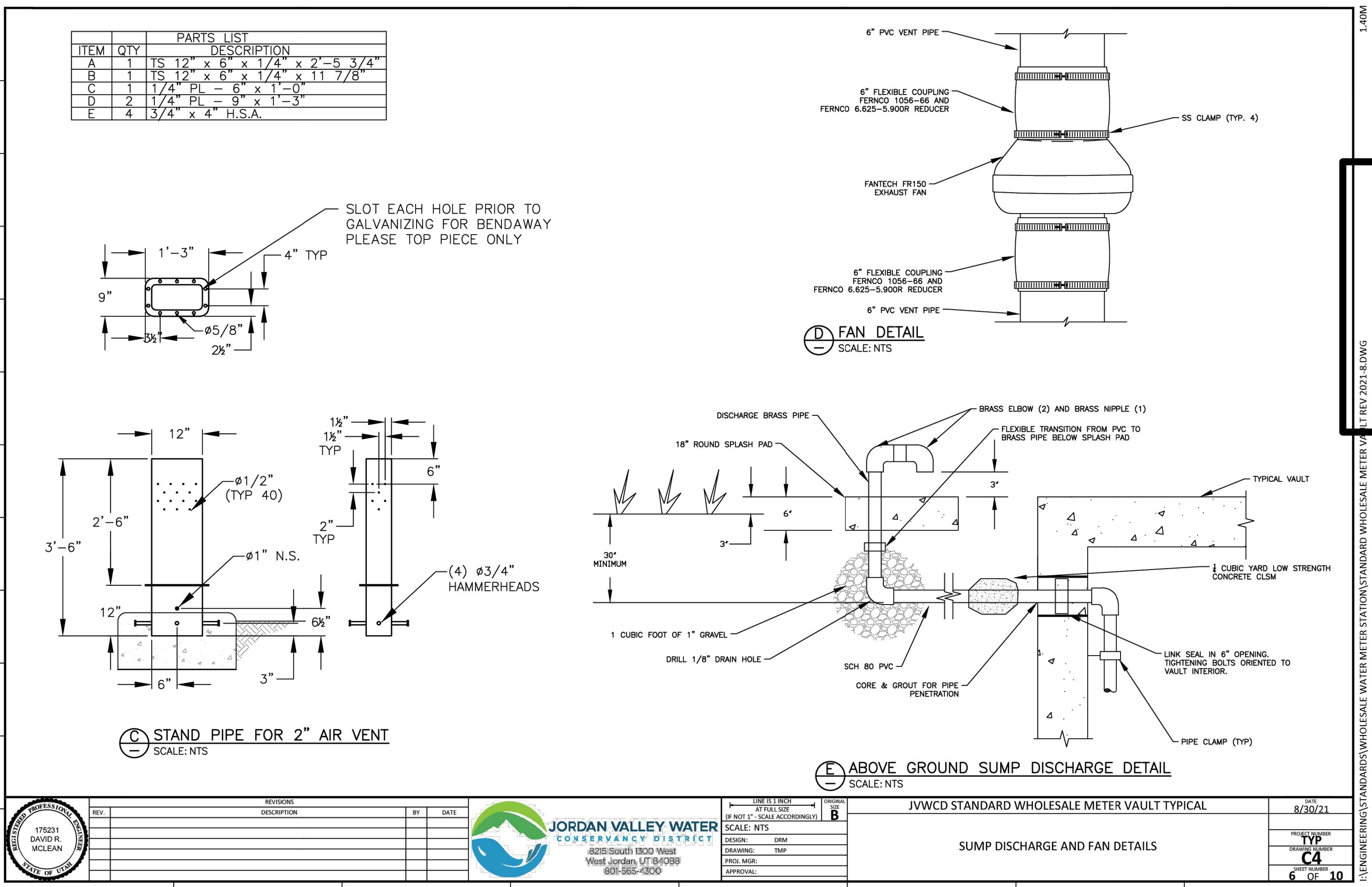
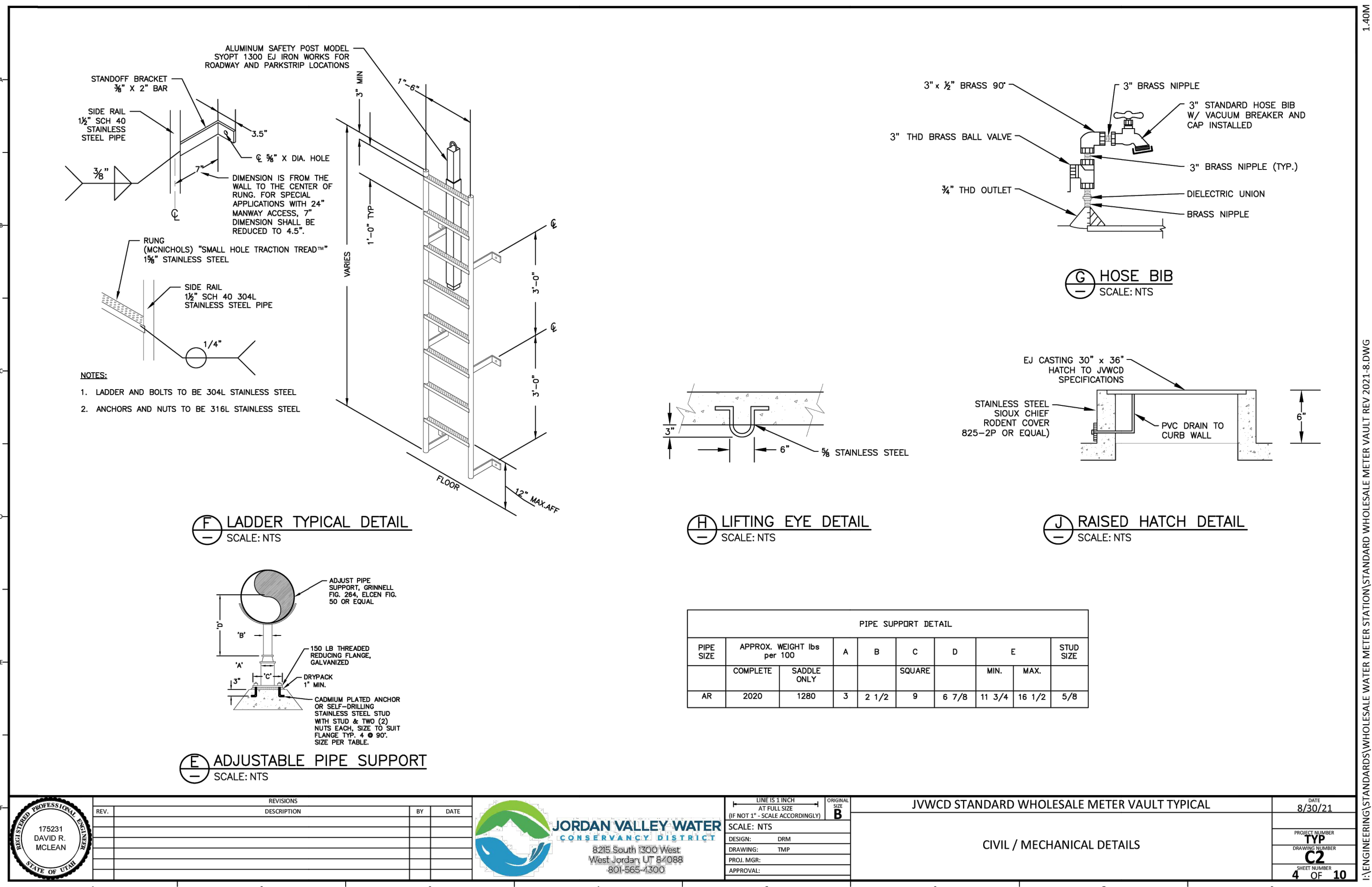
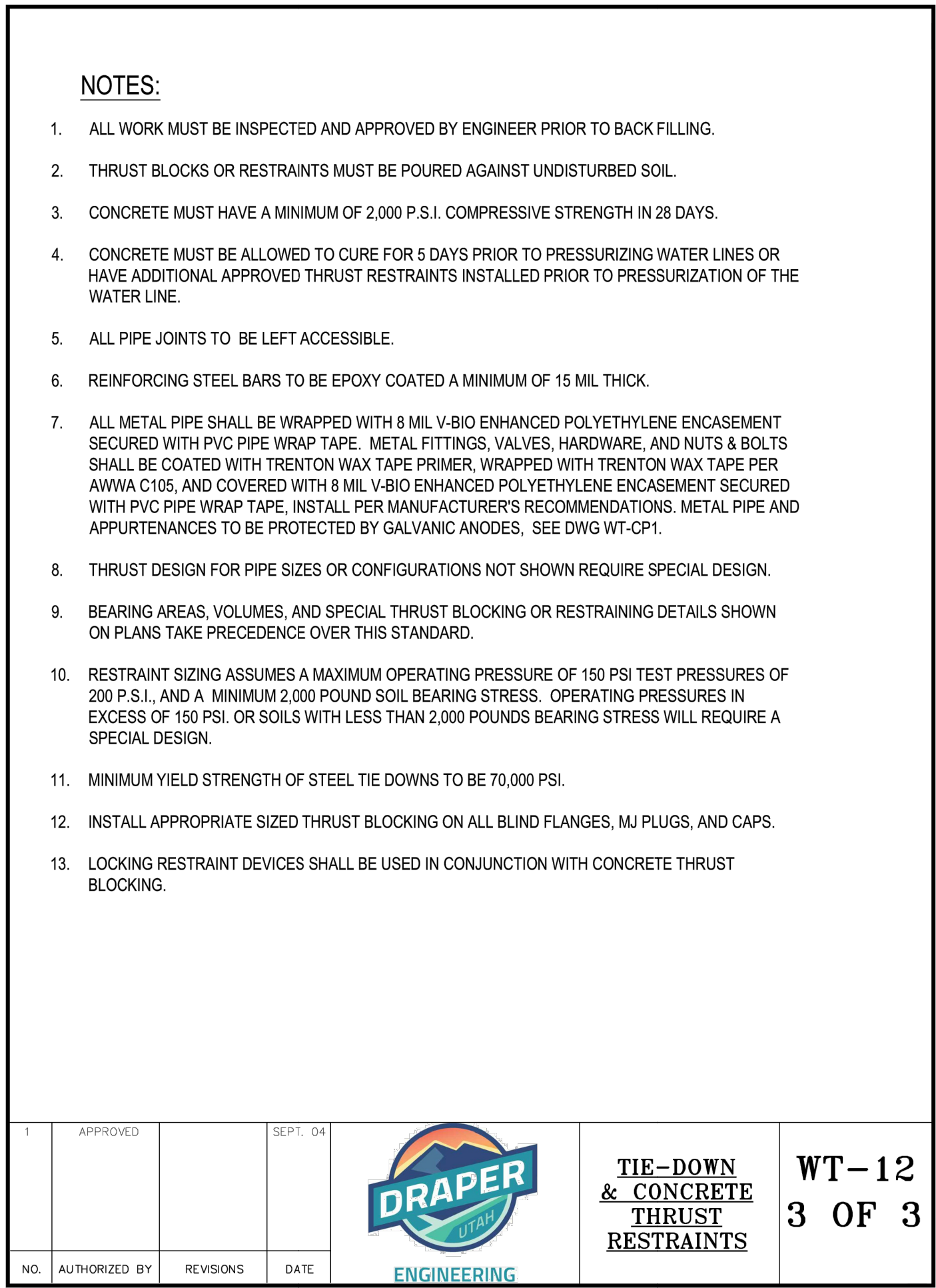
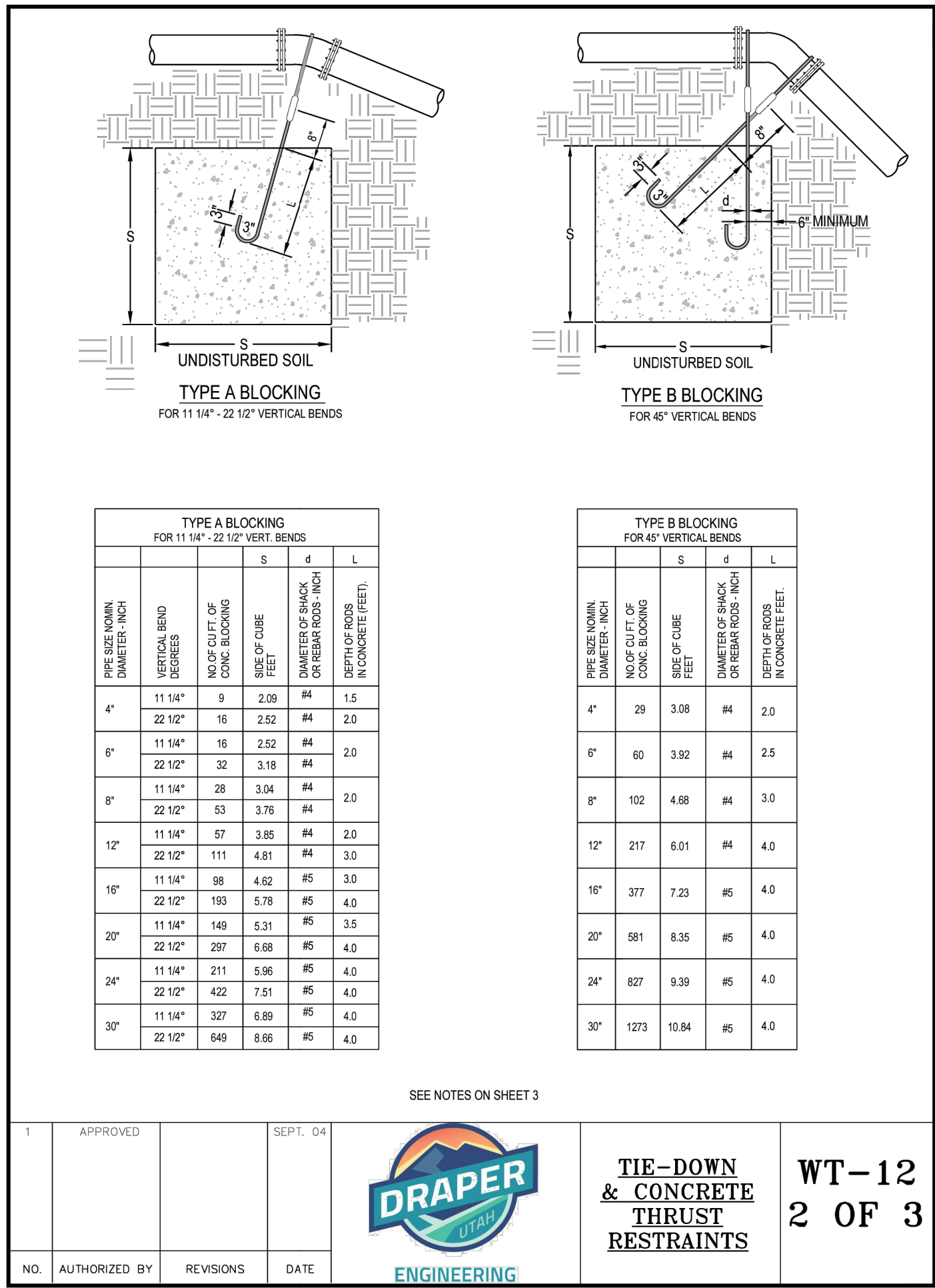
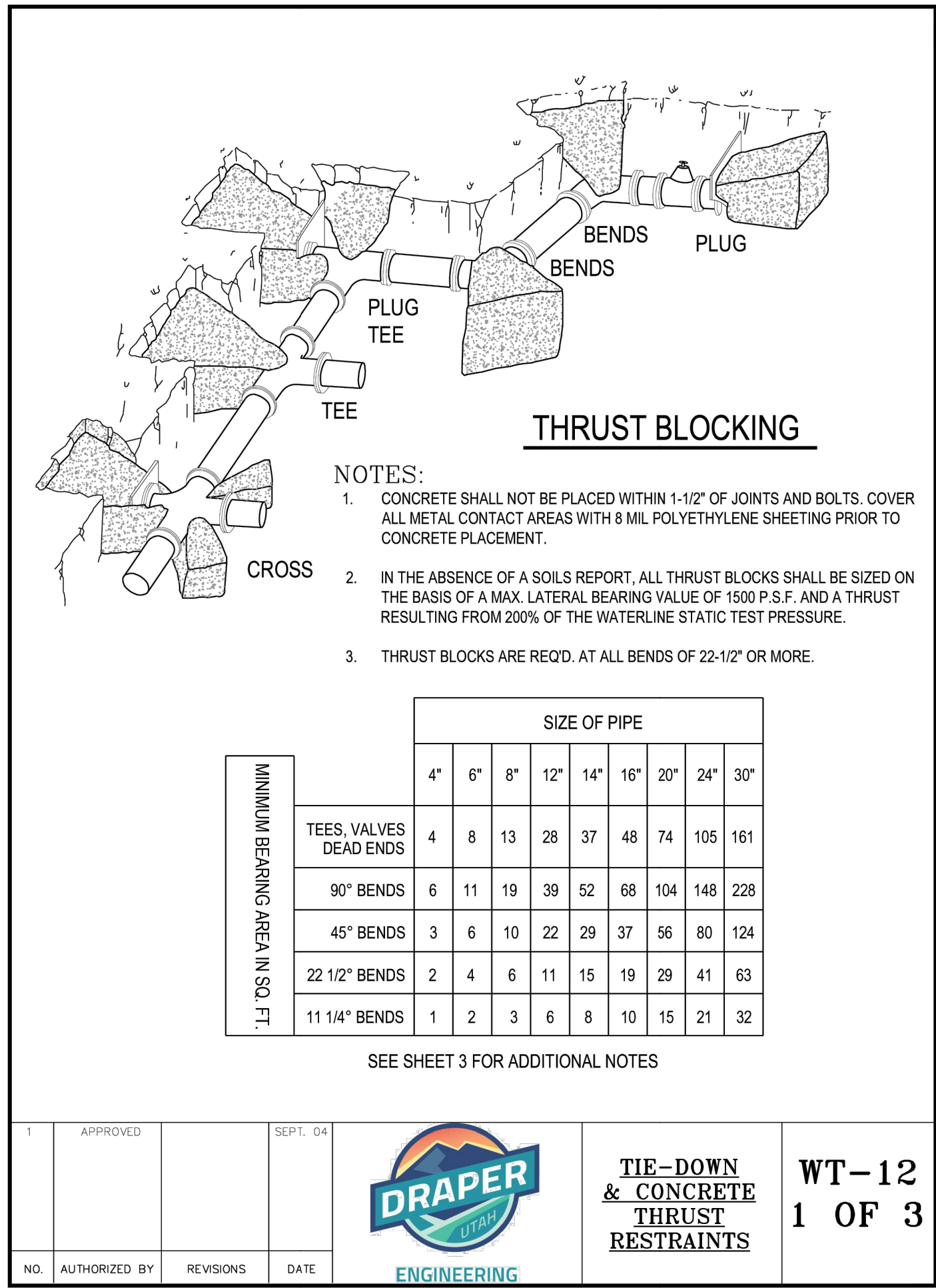
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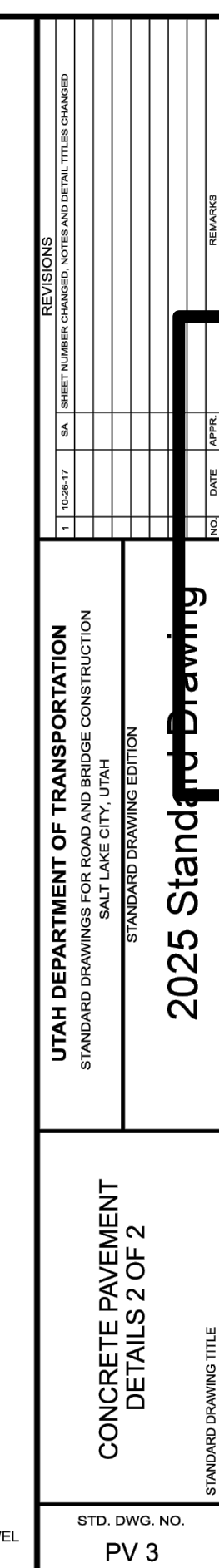
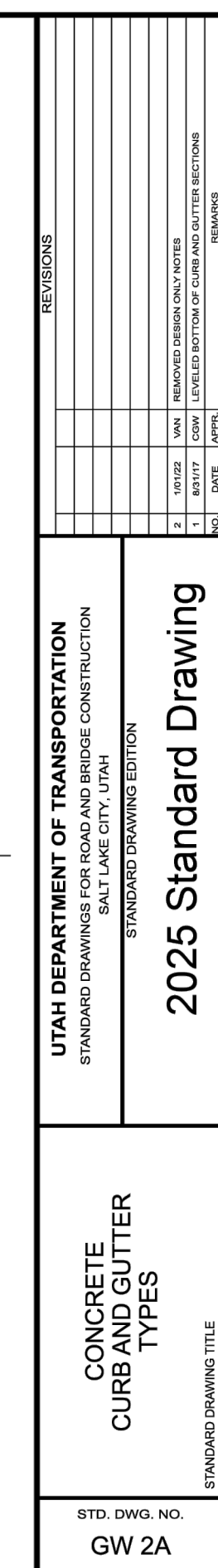
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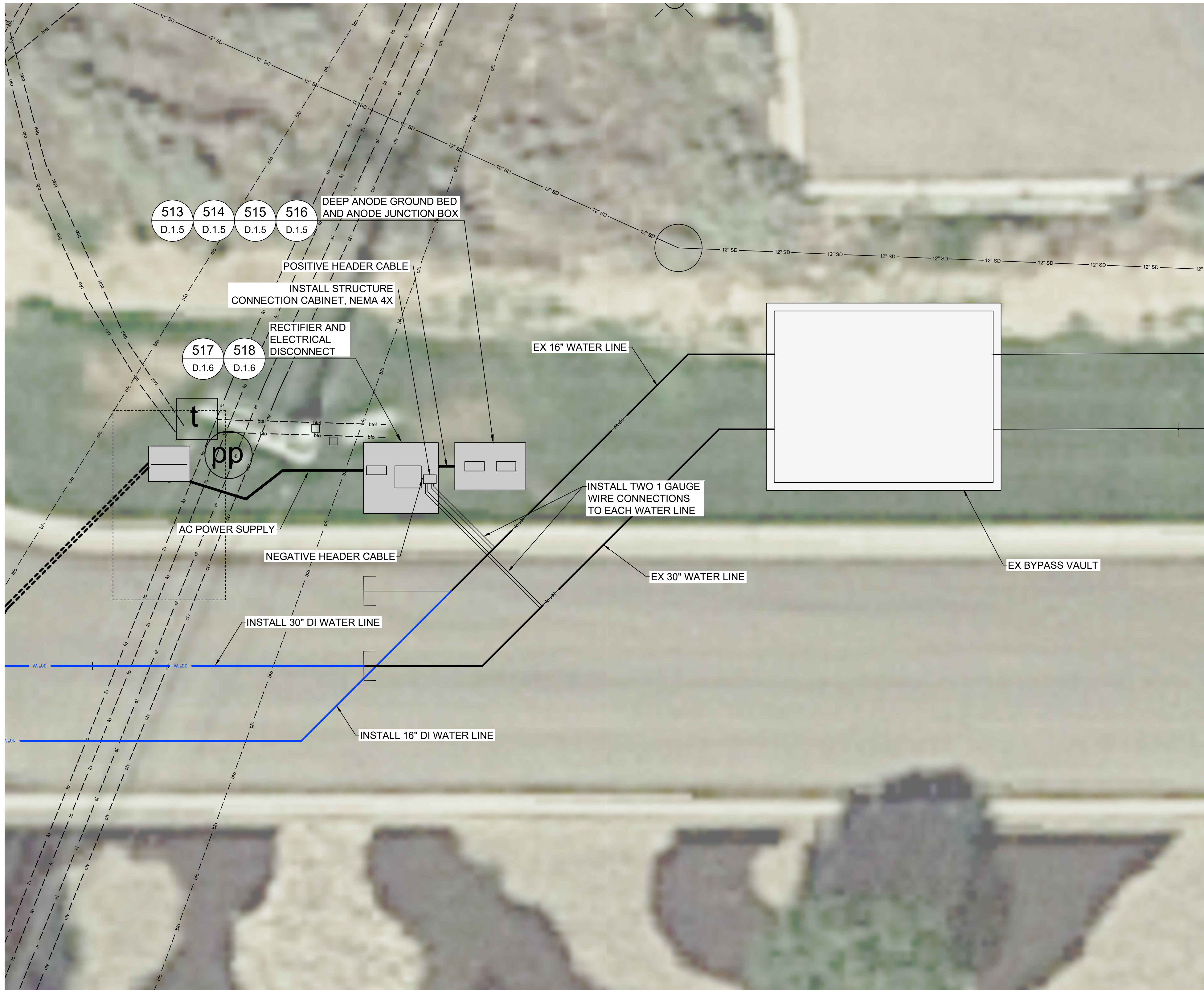
PAGE 1











SCALE
HORIZONTAL: 1" = 150'

CATHODIC PROTECTION SCHEDULE	
DESCRIPTION	CPS STATION
GROUNDBED INSTALLATION	
GROUNDBED STYLE	DEEP ANODE
GROUNDBED TERMINATION	TYPE 1
SURFACE CASING LENGTH	40 FEET
INACTIVE LENGTH	100 FEET
ACTIVE LENGTH	130 FEET
TOTAL LENGTH	220 FEET
DIAMETER	8-INCH
ANODE TYPE	45" LIDA
QUANTITY	12 EACH
ANODE SPACING	10 FOOT OC
GROUNDBED RAIL	YES
RECTIFIER INSTALLATION	
STYLE	TYPE 3
DC VOLTS OUTPUT	30 VOLTS
DC AMPS OUTPUT	8 AMPS
AC POWER INPUT	120/240 VAC, SINGLE
AC SERVICE STYLE	UNDERGROUND
AC METER	NO
AC DISCONNECT	YES
RECTIFIER RAIL	YES
REMOTE MONITOR UNIT	NO

4315 SOUTH 2700 WEST, FL 3
TAYLORSVILLE, UT 84129-2128
801-967-7230

2162 West Grove Pkwy., Suite 100
Pleasant Grove, UT 84062
(801) 763-5100
www.horrocks.com

WARNING

012

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PROJECT TITLE

THE POINT
WATER LINES

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RECTIFIER & ANODE
BED SITE PLAN

SHEET NUMBER

D.1.11

PAGE 1

Know what's below.
Call before you dig.



PACKAGE 1 & PACKAGE 3
TEST STATIONS

TEST STATION NUMBER	TEST STATION TYPE	PACKAGE # NORTHING: EASTING:
TS#102	T	PACKAGE 1 N: 7347854.4199 E: 1530903.000
TS#2	T	PACKAGE 1 N: 7347847.9476 E: 1530892.350
TS#101	T	PACKAGE 1 N: 7347572.1853 E: 1531238.404
TS#1	T	PACKAGE 1 N: 7347544.1730 E: 1531248.499
TS#103	I	PACKAGE 1 N: 7347299.5381 E: 1531123.195
TS#104	I	PACKAGE 1 N: 7347299.5381 E: 1531158.112
TS#105	I	PACKAGE 1 N: 7347299.5381 E: 1531176.812
TS#106	I	PACKAGE 1 N: 7347299.5381 E: 1531211.529
TS#107	T	PACKAGE 3 WATERLINE STATION 16+16
TS#108	T	PACKAGE 3 WATERLINE STATION 12+04
TS#109	T	PACKAGE 3 WATERLINE STATION 24+06
TS#110	T	PACKAGE 3 WATERLINE STATION 13+53
TS#110	T	PACKAGE 3 WATERLINE STATION 10+56

SCALE
HORIZONTAL: 1" = 150'

division of
Facilities Construction
and Management

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TAYLORSVILLE, UT 84129-2128
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**CULINARY
OVERVIEW**

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PAGE 1



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