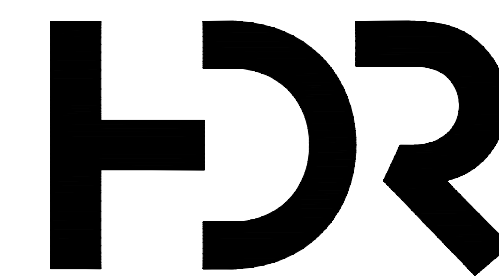
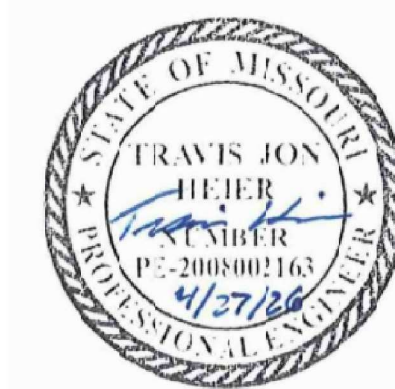


Water Supply System Bryant Creek State Park Ava, Missouri



MISSOURI CERTIFICATE OF
AUTHORITY #: 000856
PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218



TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF STATE PARKS

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: HDR ENGINEERING INC.
PROJECT 10440837

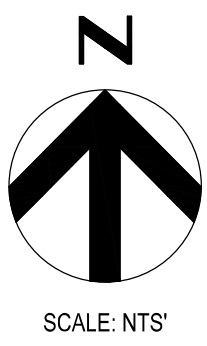
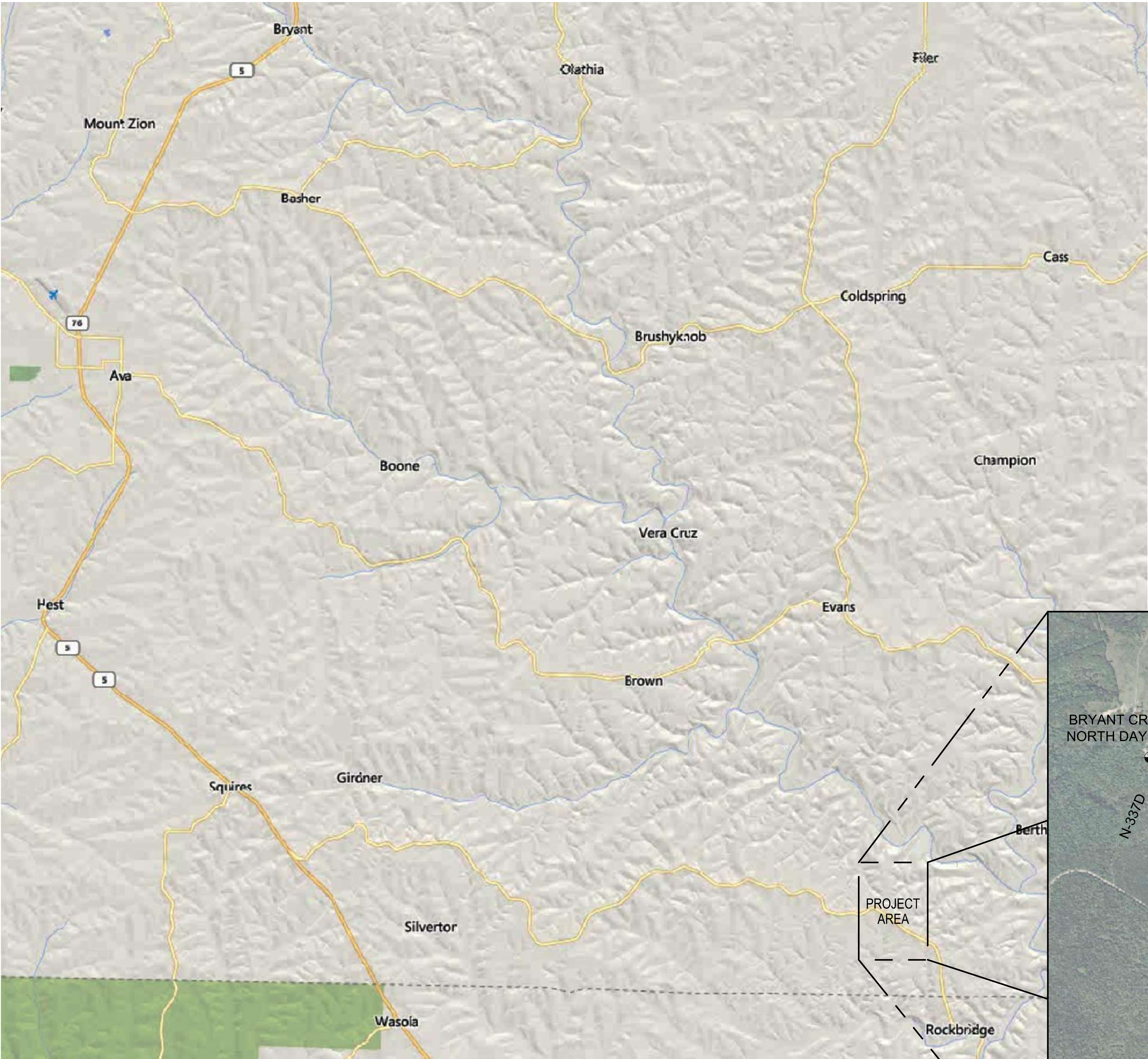
PROJECT NUMBER: X2409-01

SITE NUMBER: 5610
FACILITY NUMBER: 7815610001-INFRASTRUCTURE

SHEET NUMBER:

G-001

1 OF 8 SHEETS
March 10, 2026



INDEX OF SHEETS

- GENERAL:
G-001 COVER SHEET
C-100 SHEET INDEX AND OVERALL SITE PLAN
C-101 SITE 01 WATER SUPPLY PLAN VIEW BASE BID
C-102 SITE 02 WATER SUPPLY PLAN VIEW BID ALTERNATES
C-601 DETAILS
C-602 DETAILS
C-603 WELL DETAILS
A-101 WELL HOUSE PLAN VIEW

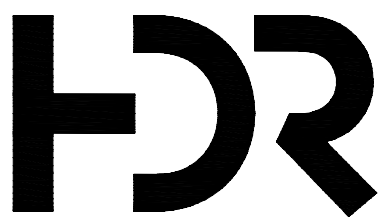
NOTE:

- UTILITY NOTES:
1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES WITH THEIR RESPECTIVE OWNER'S AS REQUIRED PRIOR TO BEGINNING WORK TO PREVENT DAMAGE BY CONTRACTOR'S OPERATION.
 2. CONTRACTOR SHALL EXPOSE ALL UTILITIES TO VERIFY LOCATION AND DEPTHS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL RECORD THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ON CONSTRUCTION RECORD DRAWINGS. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
 3. THE EXISTING FEATURES AND EXISTING UTILITIES SHOWN THROUGHOUT THESE PLANS ARE SHOWN FOR GENERAL HORIZONTAL LAYOUT LOCATION AND ORIENTATION. THE PLAN LOCATION OF THE EXISTING FEATURES AND EXISTING UTILITIES MAY VARY FROM THE ACTUAL FIELD LOCATION.
 4. CONTRACTOR SHALL TAKE ALL APPROPRIATE STEPS TO MAINTAIN CONTINUAL SERVICE OF UTILITIES. CONTRACTOR SHALL PROVIDE SUPPORT AND PROTECTION OF ALL UTILITY LINES TO PREVENT UNDERMINING OR DAMAGING OF THE UTILITY DURING CONSTRUCTION. THE ACCEPTABILITY OF CONTRACTOR'S PROPOSED PLAN TO CROSS AND/OR SUPPORT UTILITIES SHALL BE APPROVED BY THE UTILITY OWNER.
 5. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS, REPAIRS, ETC., ASSOCIATED WITH DAMAGING, REPLACING, OR RELOCATING ANY UNDERGROUND UTILITY OR SERVICE REGARDLESS IF UTILITY LINE WAS MARKED CORRECTLY OR INCORRECTLY.
 6. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING LOCATE COMPANY AND UTILITY COMPANIES TO OBTAIN FIELD LOCATES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



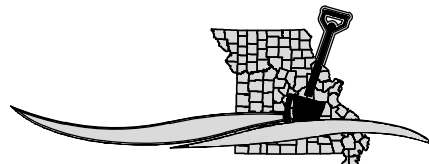
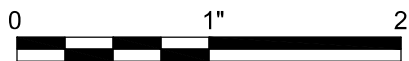
TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026



MISSOURI CERTIFICATE OF
AUTHORITY #: 000856

PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218

PROJECT #:10440837



MISSOURI
ONE CALL SYSTEM
Locate Request - 24/7
1-800-344-7483 or 811

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

WATER SUPPLY SYSTEM
BRYANT CREEK STATE
PARK

1204 PRIVATE DRIVE
AVA, MISSOURI 65608

PROJECT # X2409-01
SITE # 5610
FACILITY # 7815610001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 03/10/2026

CAD DWG FILE: _____
DRAWN BY: DDT SGF MO
CHECKED BY: _____
DESIGNED BY: TJH

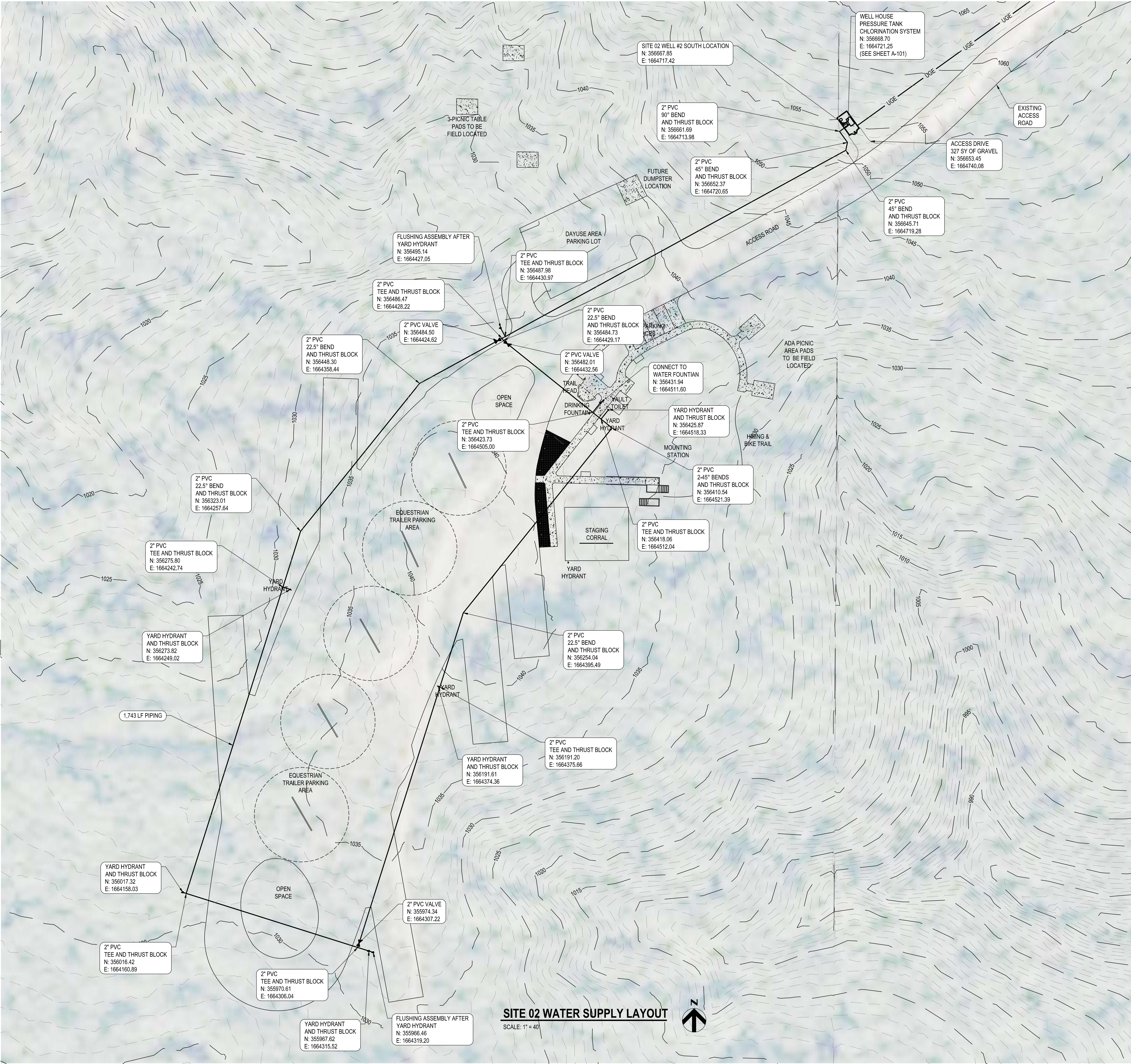
SHEET TITLE:

SHEET INDEX
AND OVERALL
SITE PLAN

SHEET NUMBER:

C-100

SHEET 2 OF 8
DATE: MARCH 10, 2026

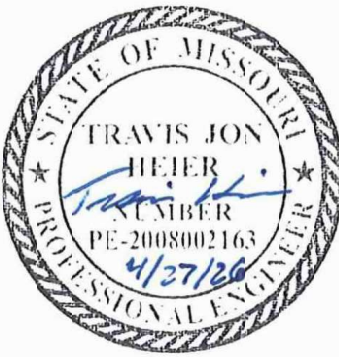


GENERAL NOTES

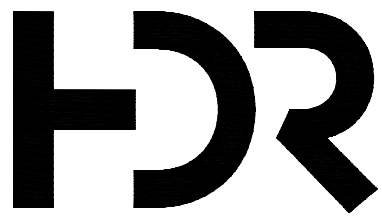
NOTES:

- EXISTING WATER LINE LOCATION INFORMATION IS BASED ON PROVIDE SKETCHES, EXISTING PLANS AND GEOLOCATION AERIAL.
- CONTOURS ARE FROM LIDAR DATA DOWNLOADED FROM THE USGS ONLINE.
- ALL CALL OUTS HORIZONTALS ARE APPROXIMATE LOCATIONS BASED ON A GEOLOCATED IMAGES AND ALL ELEVATION CALL OUTS ARE APPROXIMATE BASED ON LIDAR.
- WATER LINE WILL BE A 36" MINIMUM DEPTH.
- ALL FITTINGS SHALL HAVE THRUST BLOCKS OR OTHER APPROVED RESTRAINTS.
- CONTRACTOR TO FIELD LOCATE WATER LINE ALONG THE EDGE OF THE EXISTING GRAVEL PARKING AREA.
- ALL PIPING SHALL BE PVC DR-21 CLASS 200.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



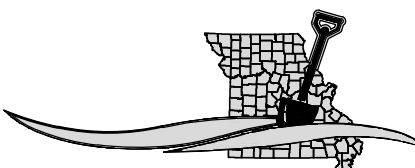
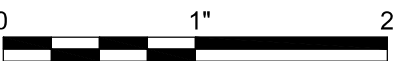
TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026



MISSOURI CERTIFICATE OF
AUTHORITY #: 000856

PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218

PROJECT #:10440837



MISSOURI
ONE CALL SYSTEM
Locate Request - 24/7
1-800-344-7483 or 811

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

WATER SUPPLY SYSTEM
BRYANT CREEK STATE
PARK

1204 PRIVATE DRIVE
AVA, MISSOURI 65608

PROJECT # X2409-01
SITE # 5610
FACILITY # 7815610001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 03/10/2026

CAD DWG FILE: _____
DRAWN BY: DDT SGF MO
CHECKED BY: _____
DESIGNED BY: TJH

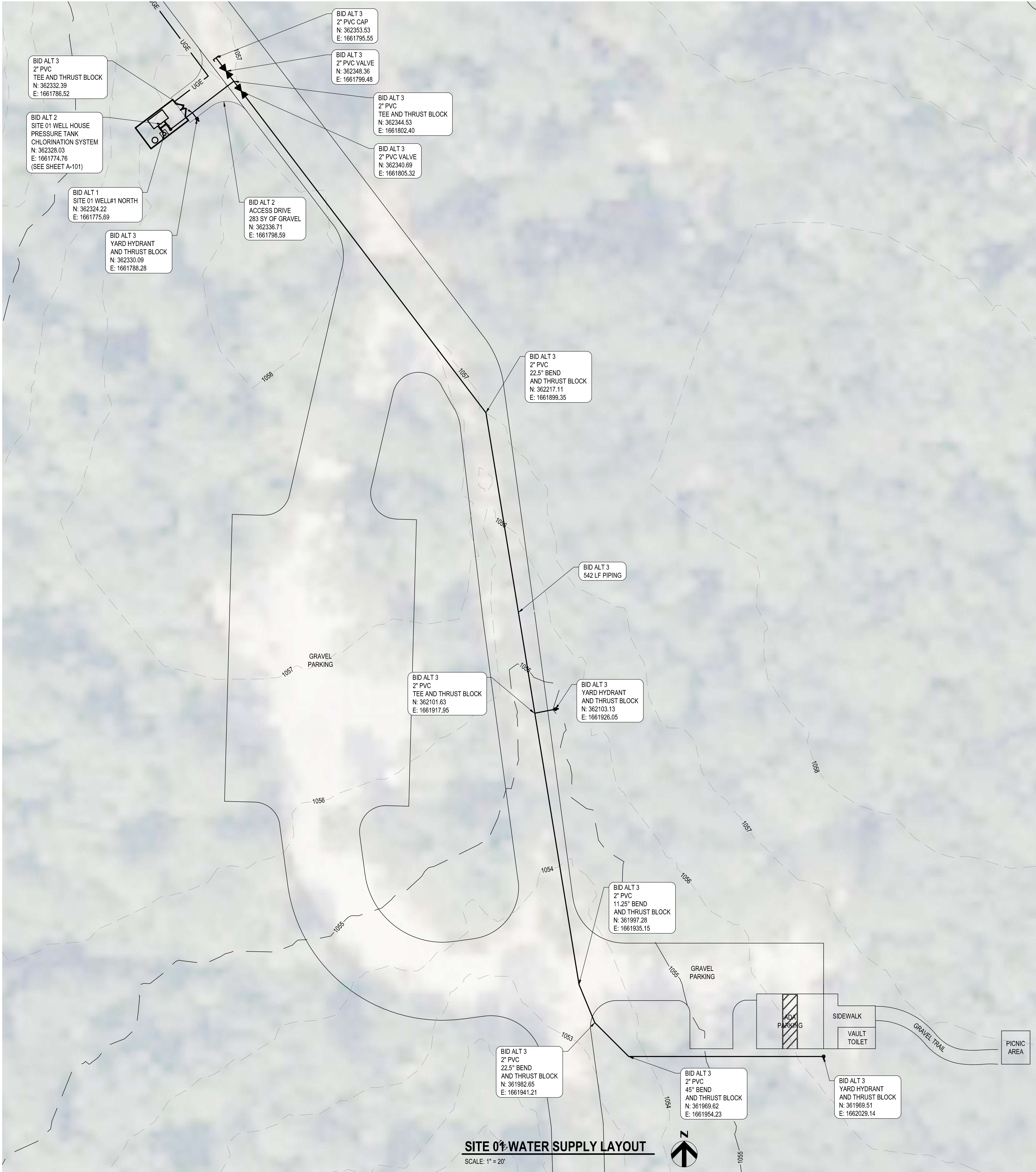
SHEET TITLE:

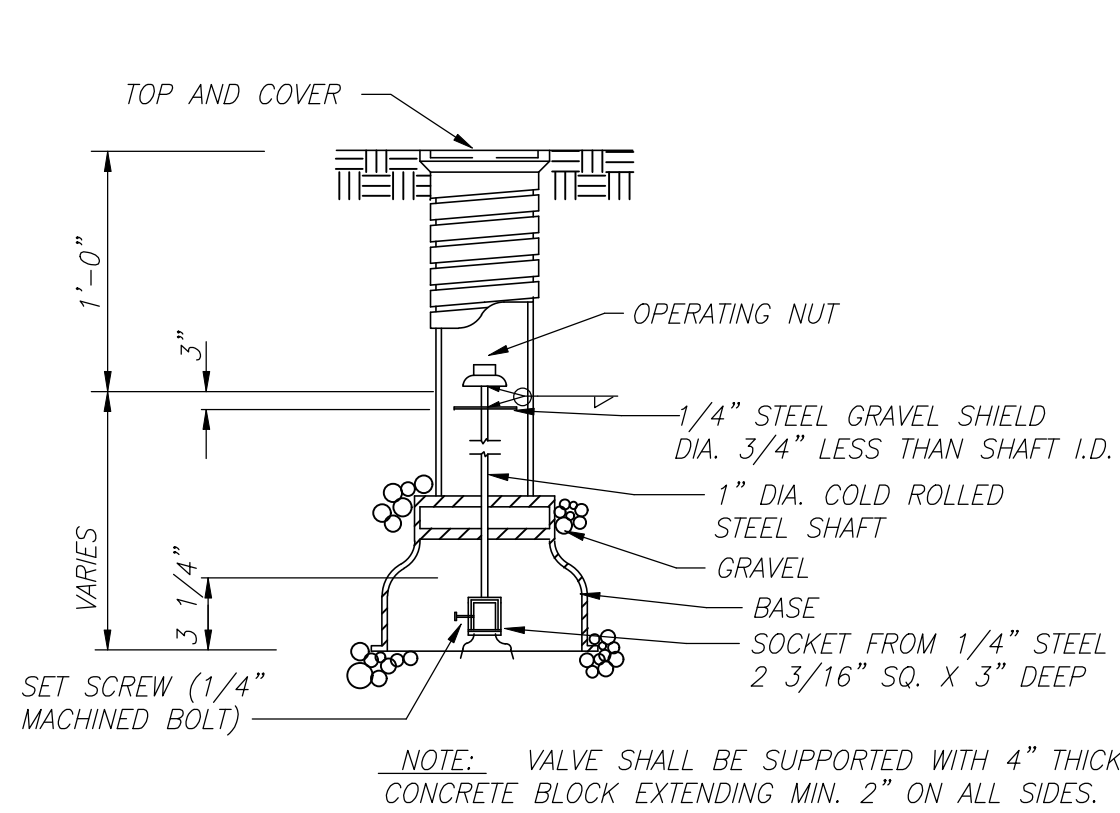
SITE 01 WATER SUPPLY
PLAN VIEW
BASE BID

SHEET NUMBER:

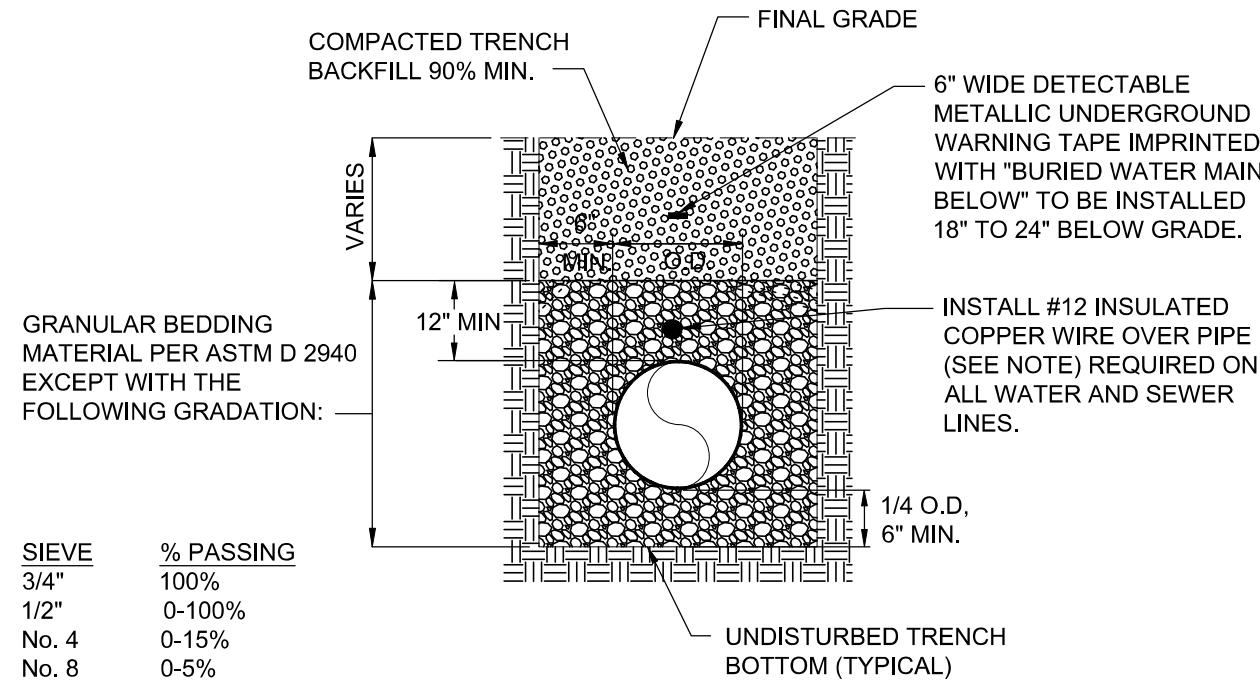
C-101

SHEET 3 OF 8
DATE: MARCH 10, 2026





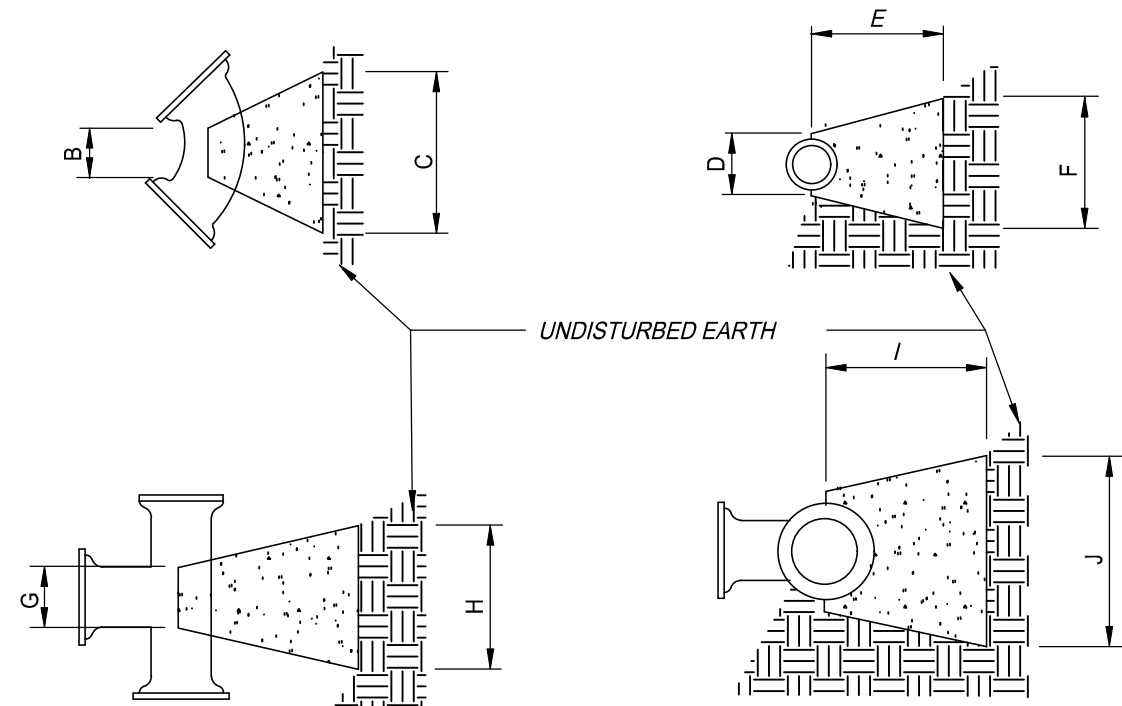
SCREW SHAFT TYPE VALVE BOX DETAIL
NOT TO SCALE



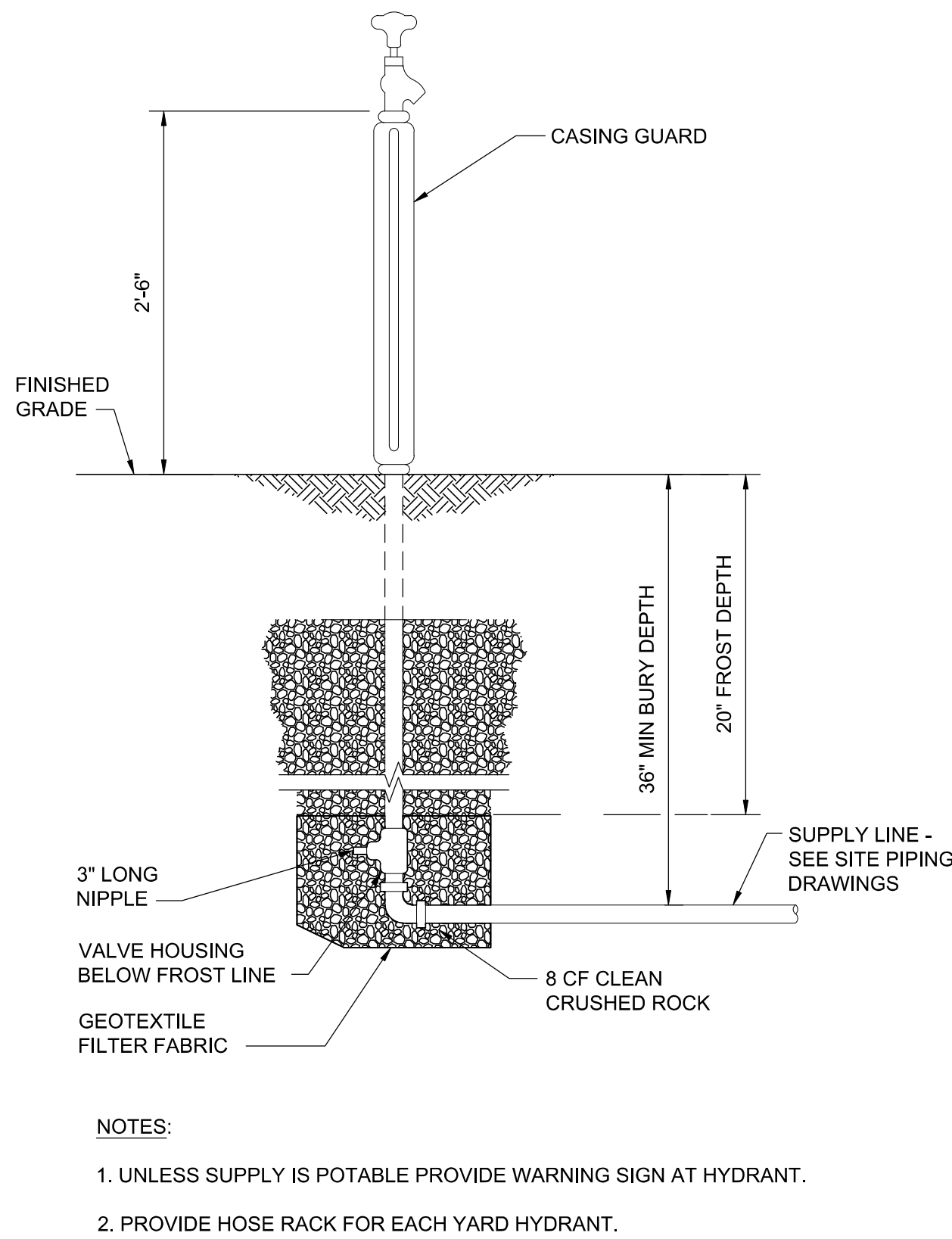
SINGLE PIPE IN TRENCH
PIPE INSTALLATION DETAIL
NOT TO SCALE

BENDS	B	C	D	E	F	BENDS	B	C	D	E	F
2\" 11 1/4 DEG	4\"	10\"	6\"	18\"	12\"	2\" 45 DEG.	4\"	12\"	6\"	18\"	12\"
2\" 22 1/2 DEG	4\"	10\"	6\"	18\"	12\"	2\" 90 DEG.	4\"	14\"	6\"	18\"	12\"
3\" 11 1/4 DEG	6\"	12\"	9\"	18\"	12\"	3\" 35 DEG.	6\"	16\"	9\"	18\"	12\"
3\" 22 1/2 DEG	6\"	12\"	9\"	18\"	12\"	3\" 90 DEG.	6\"	18\"	9\"	18\"	12\"
4\" 11 1/4 DEG	8\"	14\"	12\"	24\"	12\"	4\" 45 DEG.	6\"	20\"	12\"	20\"	12\"
4\" 22 1/2 DEG	8\"	14\"	12\"	24\"	12\"	4\" 90 DEG.	6\"	24\"	12\"	24\"	12\"
6\" 11 1/4 DEG	8\"	16\"	12\"	24\"	12\"	6\" 45 DEG.	8\"	30\"	12\"	24\"	14\"
6\" 22 1/2 DEG	8\"	19\"	12\"	24\"	13\"	6\" 90 DEG.	8\"	30\"	12\"	24\"	27\"
8\" 11 1/4 DEG	8\"	20\"	12\"	24\"	12\"	8\" 45 DEG.	8\"	30\"	12\"	24\"	24\"
8\" 22 1/2 DEG	8\"	22\"	12\"	24\"	17\"	8\" 90 DEG.	8\"	38\"	12\"	24\"	36\"
10\" 11 1/4 DEG	8\"	25\"	12\"	24\"	15\"	10\" 45 DEG.	8\"	45\"	12\"	24\"	48\"
10\" 22 1/2 DEG	8\"	27\"	12\"	24\"	24\"	10\" 90 DEG.	8\"	70\"	12\"	24\"	64\"
12\" 11 1/4 DEG	8\"	30\"	12\"	24\"	15\"	12\" 45 DEG.	8\"	45\"	12\"	24\"	48\"
12\" 22 1/2 DEG	8\"	35\"	12\"	24\"	25\"	12\" 90 DEG.	8\"	70\"	12\"	24\"	64\"

TEES	G	H	I	J	TEES	G	H	I	J
2\" X 2\" X 2\"	4\"	12\"	18\"	12\"	10\" X 10\" X 6\"	12\"	24\"	24\"	18\"
3\" X 3\" X 3\"	8\"	12\"	18\"	12\"	10\" X 10\" X 8\"	12\"	24\"	24\"	24\"
4\" X 4\" X 4\"	12\"	24\"	24\"	16\"	10\" X 10\" X 10\"	12\"	24\"	24\"	24\"
6\" X 6\" X 6\"	12\"	24\"	24\"	18\"	12\" X 12\" X 6\"	12\"	24\"	24\"	18\"
8\" X 8\" X 6\"	12\"	24\"	24\"	18\"	12\" X 12\" X 8\"	12\"	24\"	24\"	24\"
8\" X 8\" X 8\"	12\"	24\"	24\"	24\"	12\" X 12\" X 12\"	12\"	36\"	24\"	36\"



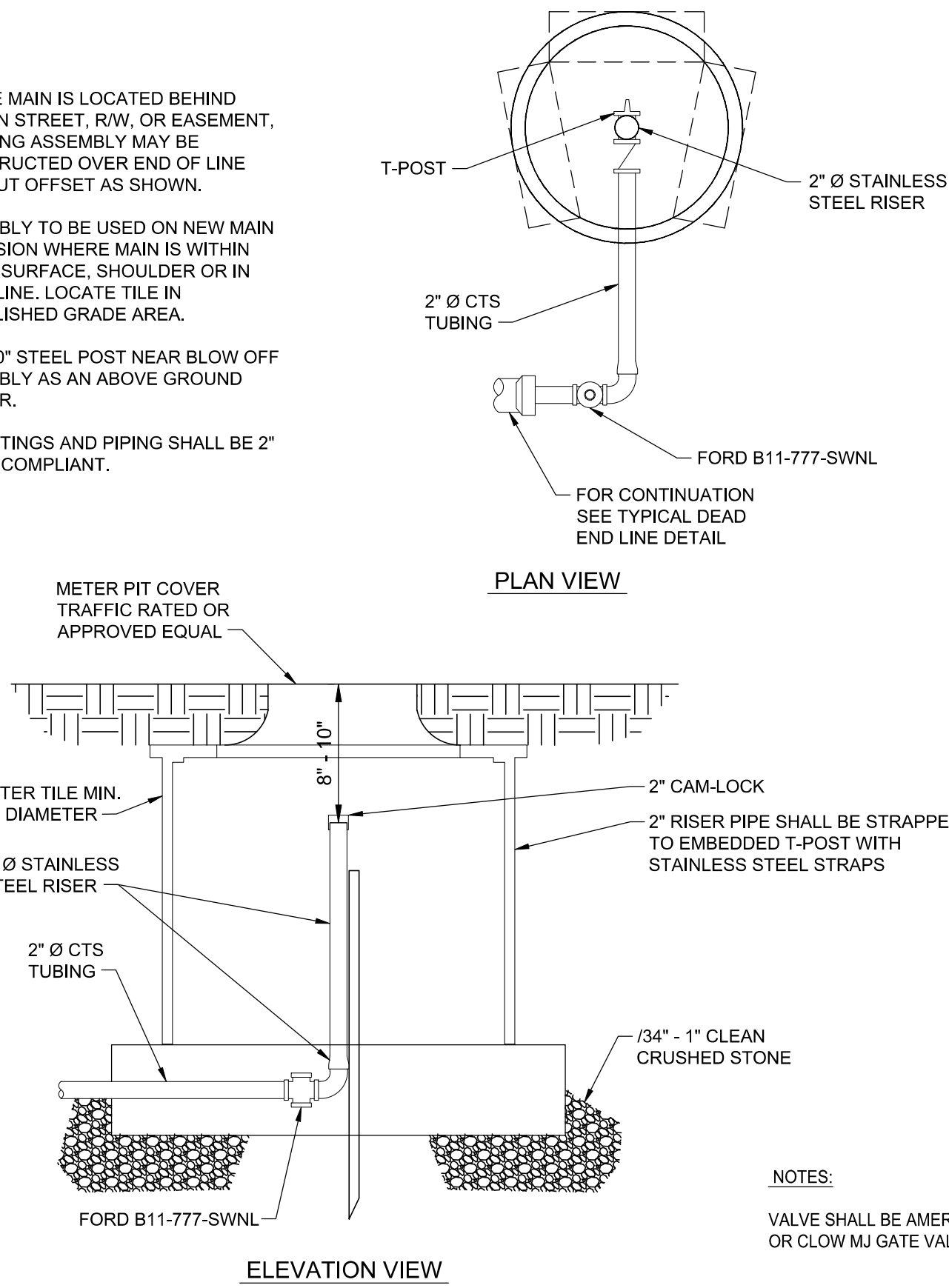
CONCRETE THRUST BLOCK DETAIL
NOT TO SCALE



YARD HYDRANT
NOT TO SCALE

NOTES:

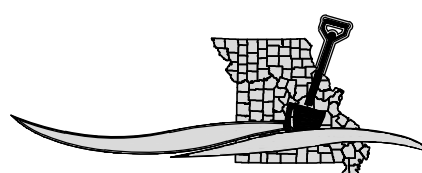
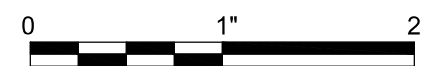
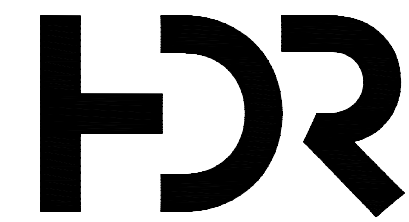
- WHERE MAIN IS LOCATED BEHIND CURB IN STREET, R.W. OR EASEMENT, FLUSHING ASSEMBLY MAY BE CONSTRUCTED OVER END OF LINE WITHOUT OFFSET AS SHOWN.
- ASSEMBLY TO BE USED ON NEW MAIN EXTENSION WHERE MAIN IS WITHIN PAVED SURFACE, SHOULDER OR IN DITCH LINE. LOCATE TILE IN ESTABLISHED GRADE AREA.
- SET 5'-0\"/>
- ALL FITTINGS AND PIPING SHALL BE 2\"/>

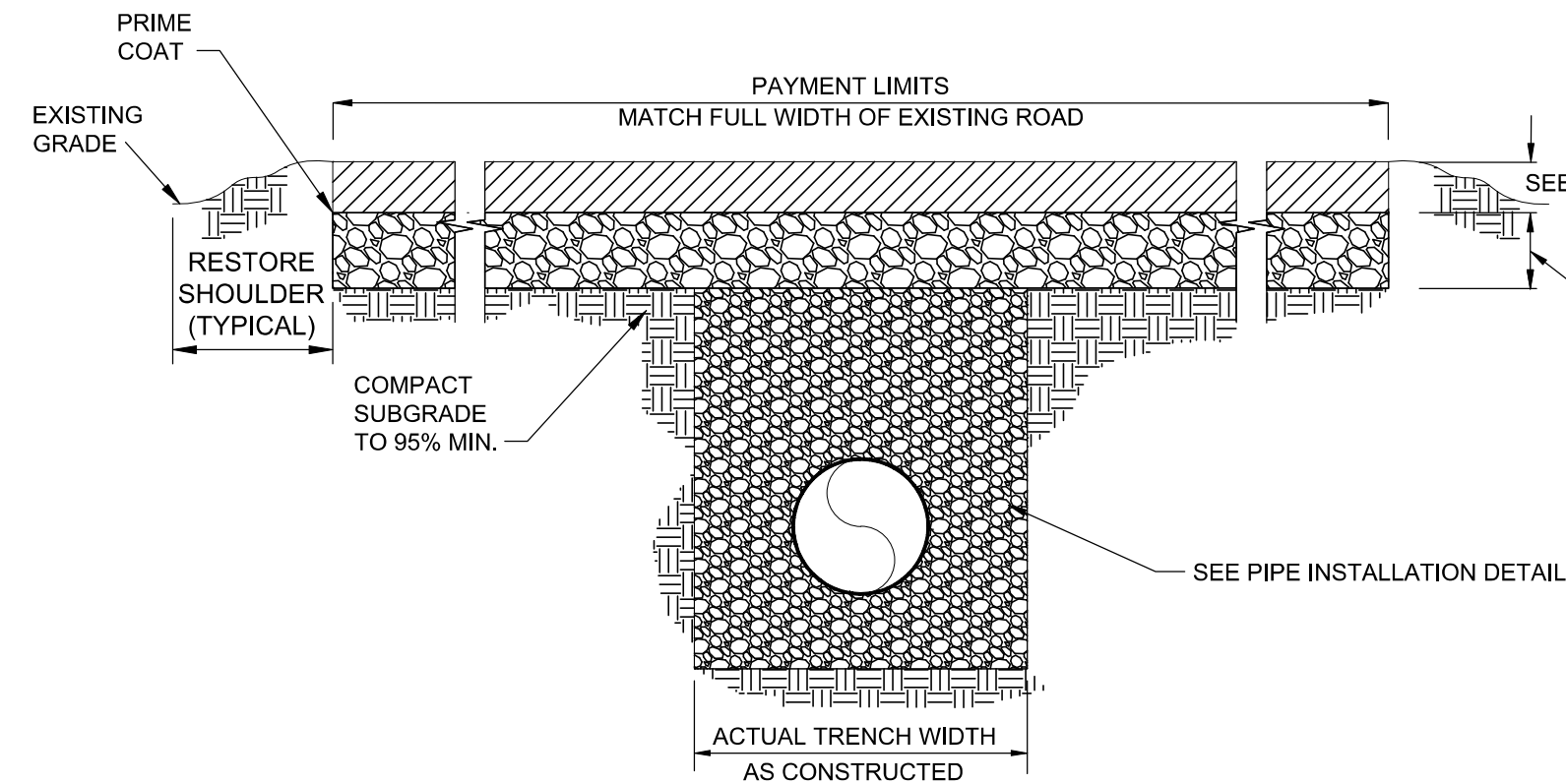


FLUSHING ASSEMBLY DETAIL
NOT TO SCALE

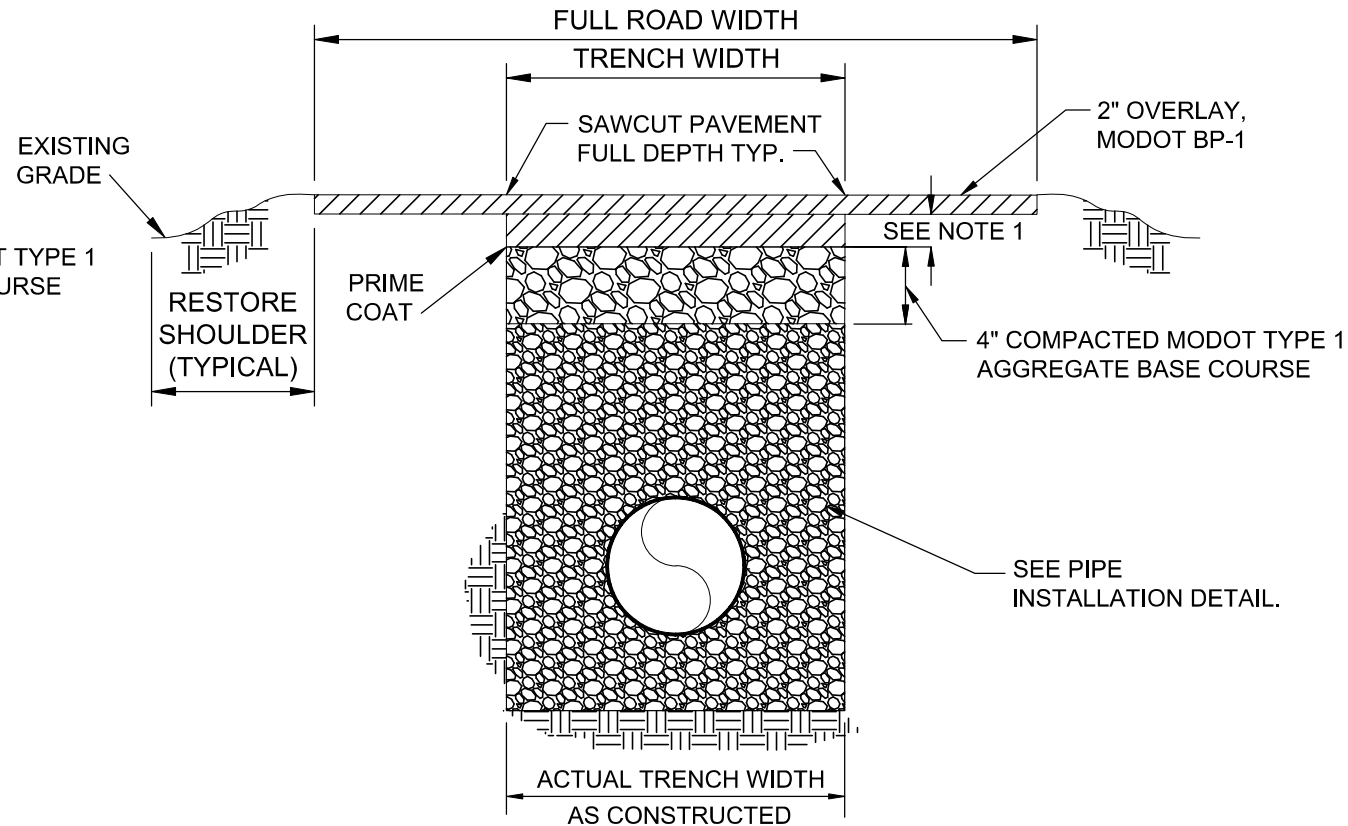
NOTES:

- UNLESS OTHERWISE NOTED, ALL PIPE SHALL BE PVC.
- ALL UTILITIES ARE LOCATED FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.
- ALL LINES SHALL HAVE 36\"/>
- ALL BACKFILL SHALL BE TAMPED.
- WHERE NEW WATER LINES CROSS EXISTING UTILITY LINES, NEW WATER LINES SHALL BE ROUTED ABOVE OR BELOW EXISTING UTILITY LINES, MAINTAINING 18\"/>

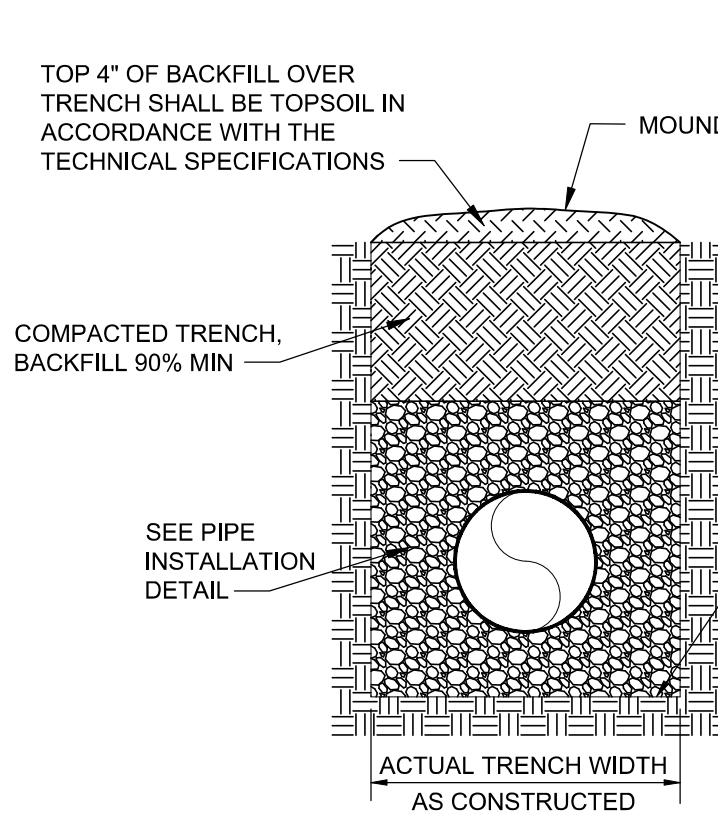




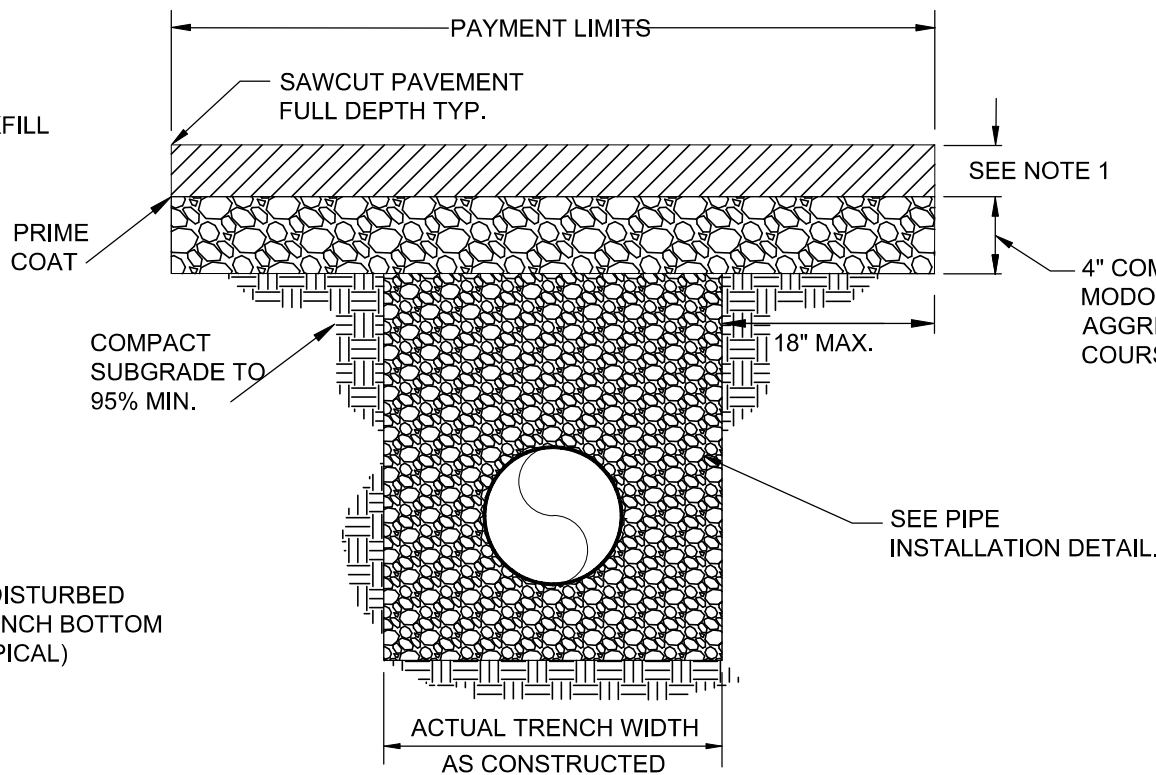
FULL WIDTH BITUMINOUS SURFACED AREA REPLACEMENT DETAIL



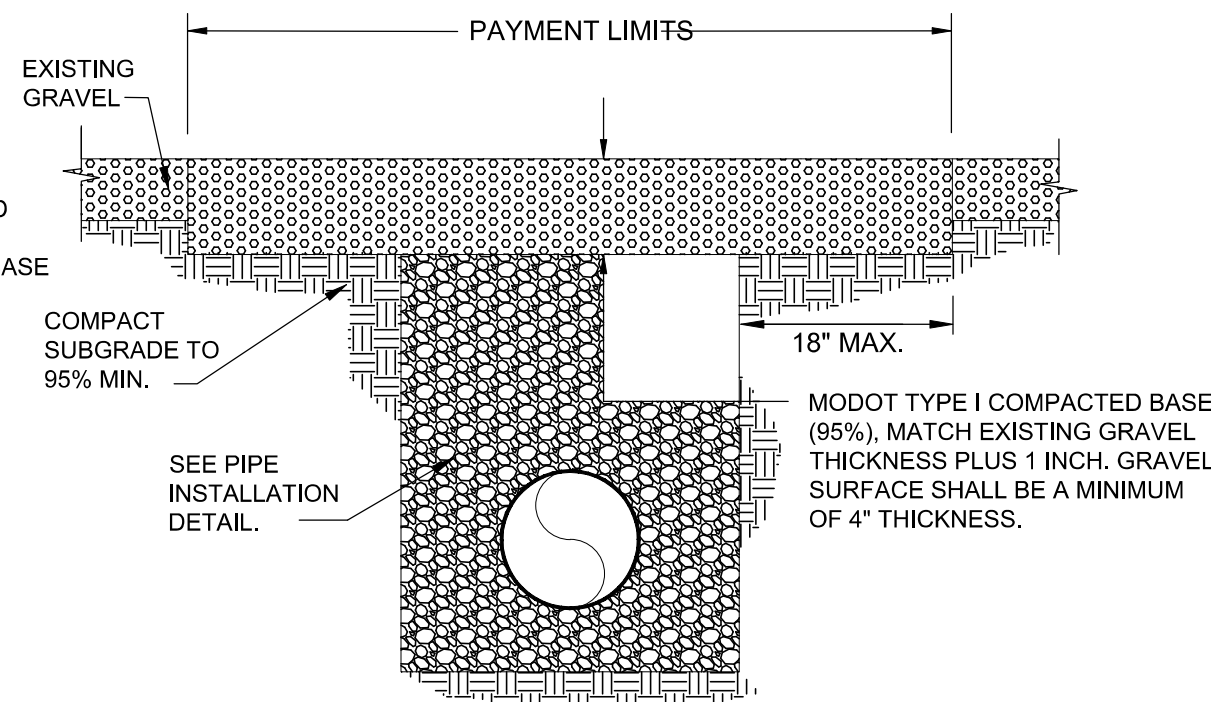
FULL WIDTH BITUMINOUS SURFACED AREA OVERLAY DETAIL



SEEDED AREA



BITUMINOUS SURFACED AREA CROSSING



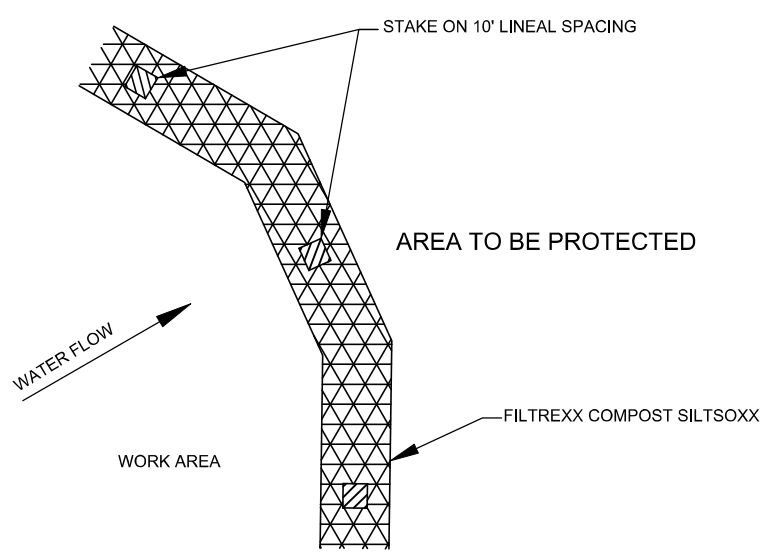
GRAVEL SURFACE AREA CROSSING

NOTES:

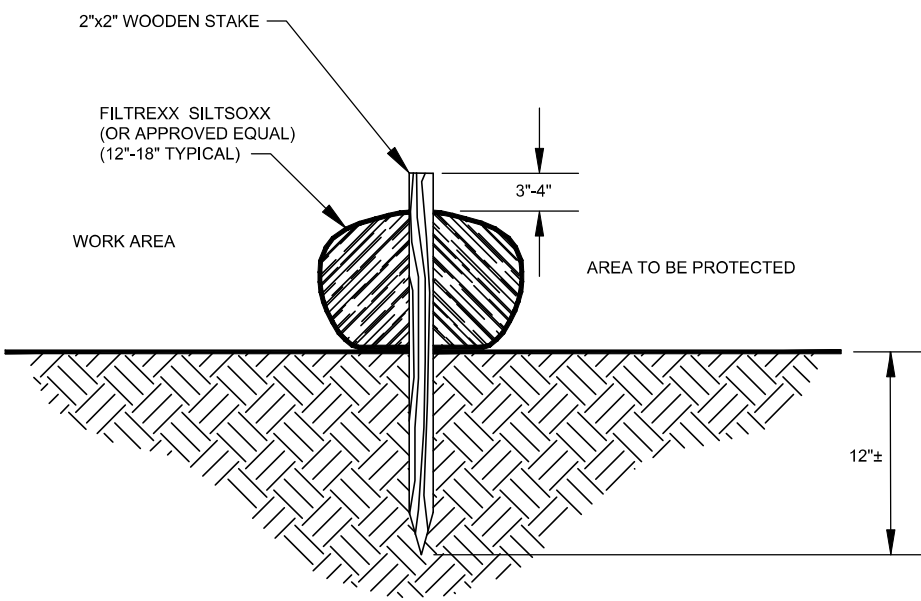
1. MODOT BP-1 PLANT MIX BITUMINOUS PAVEMENT, MATCH EXISTING ASPHALT THICKNESS PLUS 1 INCH. ASPHALT SHALL BE A MINIMUM OF 3" THICKNESS AND A MAXIMUM OF 6" THICKNESS. IF BITUMINOUS SURFACE THICKNESS IS 4 INCHES OR GREATER, THE TOP 2 INCHES OF PAVEMENT SHALL BE MODOT BP-1 PLANT MIX BITUMINOUS PAVEMENT AND THE REMAINING PAVEMENT THICKNESS SHALL BE MODOT BASE PLANT MIX BITUMINOUS PAVEMENT.
2. PAYMENT FOR ROAD CROSSING REPLACEMENT SHALL BE TO THE LIMITS SHOWN IN THE DETAILS. ANY AREA DISTURBED BEYOND PAYMENT LIMITS SHALL BE RESTORED IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR TO RESHOULDER ROAD WITH TOPSOIL, SEED, AND MULCH OR MODOT TYPE 1 BASE AS REQUIRED TO MATCH EXISTING SHOULDER.
4. CONTRACTOR TO INSTALL FULL WIDTH BITUMINOUS SURFACE OVERLAY IN ALL AREAS REQUIRING FULL WIDTH ROAD REPLACEMENT UNLESS INSTALLING FULL WIDTH ROAD OVERLAY WILL CAUSE DRAINAGE ISSUES, THEN CONTRACTOR TO INSTALL FULL WIDTH ROAD REPLACEMENT PER DETAIL OR CAN USE COLD MILLING TO INSTALL OVERLAY TO ORIGINAL GRADE.
5. CONTRACTOR TO INSTALL FULL DEPTH GRAVEL BACKFILL UNDER ROADS OR MATERIAL COMPACTED TO MEET PROJECT SPECIFICATIONS.

ROAD REPLACEMENT AND TRENCHING BACKFILL METHODS DETAILS

NOT TO SCALE



PLAN VIEW



SECTION

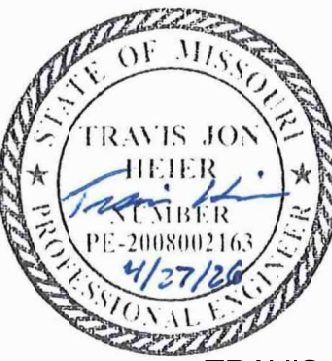
NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS (OR EQUAL).
2. SILT/SOXX COMPOST/SOIL/ROCK FILL TO MEET APPLICATION REQUIREMENTS.
3. SILT/SOXX DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. SILT/SOXX TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
6. IN ADDITION TO SPECIFIC AREAS INDICATED ON PLANS, CONTRACTOR SHALL PLACE HAY BALE DAMS AS NECESSARY TO CONTROL EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE.

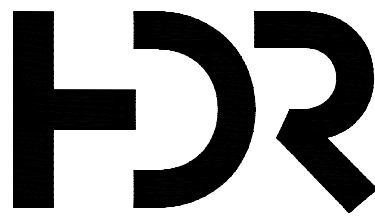
SILT SOXX EROSION CONTROL

NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



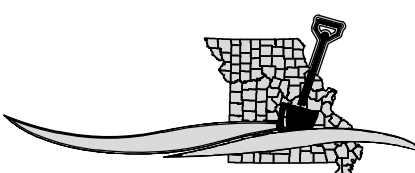
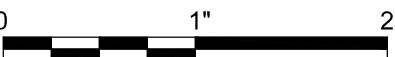
TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026



MISSOURI CERTIFICATE OF
AUTHORITY #: 000856

PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218

PROJECT #:10440837



MISSOURI
ONE CALL SYSTEM
Locate Request - 24/7
1-800-344-7483 or 811

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

WATER SUPPLY SYSTEM
BRYANT CREEK STATE
PARK

1204 PRIVATE DRIVE
AVA, MISSOURI 65608

PROJECT # X2409-01
SITE # 5610
FACILITY # 7815610001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 03/10/2026

CAD DWG FILE: _____
DRAWN BY: DDT SGF MO
CHECKED BY: _____
DESIGNED BY: TJH

SHEET TITLE:

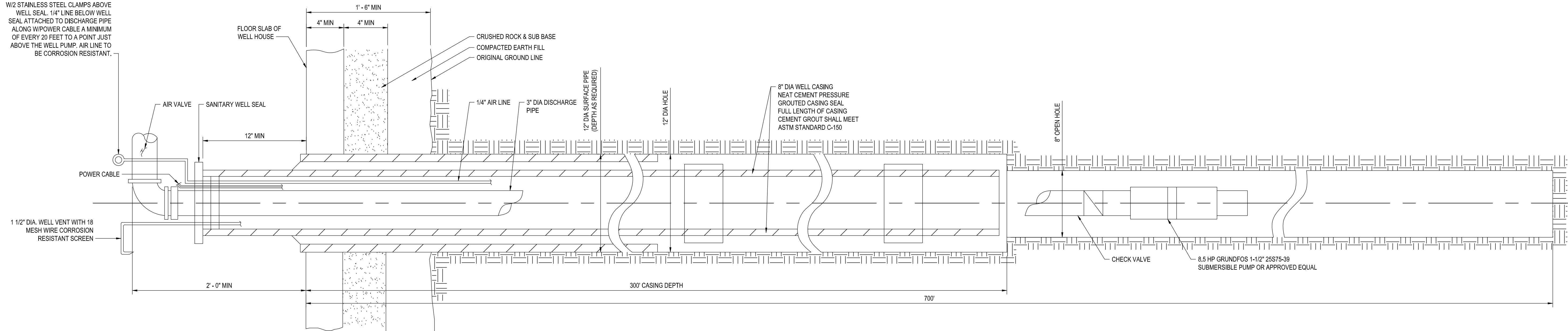
DETAILS

SHEET NUMBER:

C-502

SHEET 6 OF 8
DATE: MARCH 10, 2026

DEPTH GAUGE ASSY. - 3 1/2" MARSHALL TOWN GAUGE MODEL NO. G24451 100 PSI/230 FT. WITH 1/4" TAP. 1/4" AIR LINE ATTACHED TO DISCHARGE PIPE WITH W/2 STAINLESS STEEL CLAMPS ABOVE WELL SEAL. 1/4" LINE BELOW WELL SEAL ATTACHED TO DISCHARGE PIPE ALONG W/POWER CABLE A MINIMUM OF EVERY 20 FEET TO A POINT JUST ABOVE THE WELL PUMP. AIR LINE TO BE CORROSION RESISTANT.

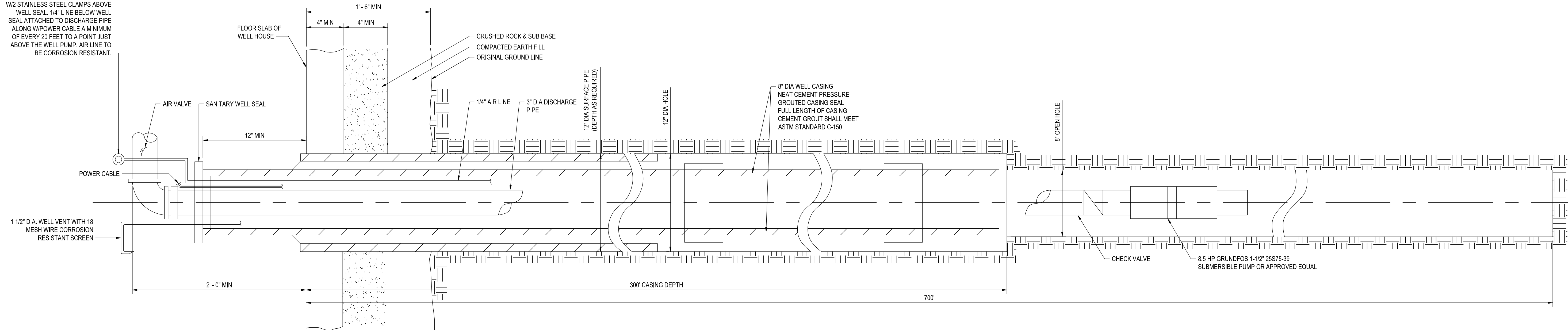


SECTION THROUGH DEEP WELL
SITE 01 - WELL #1 - NORTH WELL

NOT TO SCALE

1
02C503

DEPTH GAUGE ASSY. - 3 1/2" MARSHALL TOWN GAUGE MODEL NO. G24451 100 PSI/230 FT. WITH 1/4" TAP. 1/4" AIR LINE ATTACHED TO DISCHARGE PIPE WITH W/2 STAINLESS STEEL CLAMPS ABOVE WELL SEAL. 1/4" LINE BELOW WELL SEAL ATTACHED TO DISCHARGE PIPE ALONG W/POWER CABLE A MINIMUM OF EVERY 20 FEET TO A POINT JUST ABOVE THE WELL PUMP. AIR LINE TO BE CORROSION RESISTANT.



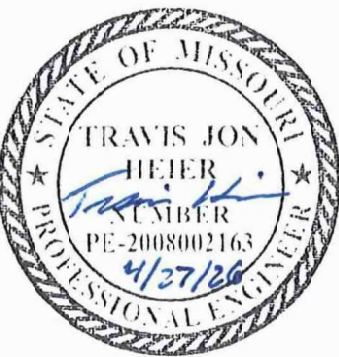
SECTION THROUGH DEEP WELL
SITE 02 - WELL #2 - SOUTH WELL

NOT TO SCALE

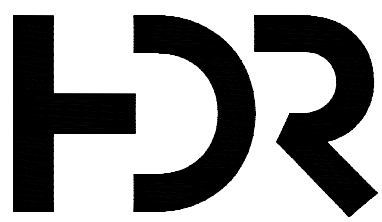
2
02C503

NOTES:
1. ALL PERMANENT WELL CASING SHALL BE SURROUNDED BY A MINIMUM OF 1-1/2 INCHES OF GROUT TO THE DEPTH REQUIRED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES. ALL TEMPORARY CONSTRUCTION CASINGS SHALL BE REMOVED. WHERE REMOVAL IS NOT POSSIBLE OR PRACTICAL, THE CASING SHALL BE WITHDRAWN A MINIMUM OF FIVE FEET TO INSURE GROUT CONTACT WITH THE NATIVE FORMATION.
2. ALL WATER SYSTEM CONSTRUCTION SHALL MEET THE STANDARDS FOR NON-COMMUNITY PUBLIC WATER SUPPLIES (PUB979) FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026

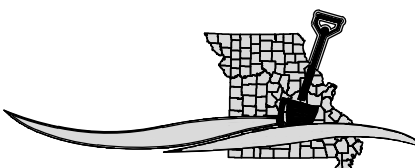


MISSOURI CERTIFICATE OF
AUTHORITY #: 000856

PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218

PROJECT #:10440837

0 1" 2"



MISSOURI
ONE CALL SYSTEM
Locate Request - 24/7
1-800-344-7483 or 811

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

WATER SUPPLY SYSTEM
BRYANT CREEK STATE
PARK

1204 PRIVATE DRIVE
AVA, MISSOURI 65608

PROJECT # X2409-01
SITE # 5610
FACILITY # 7815610001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 03/10/2026

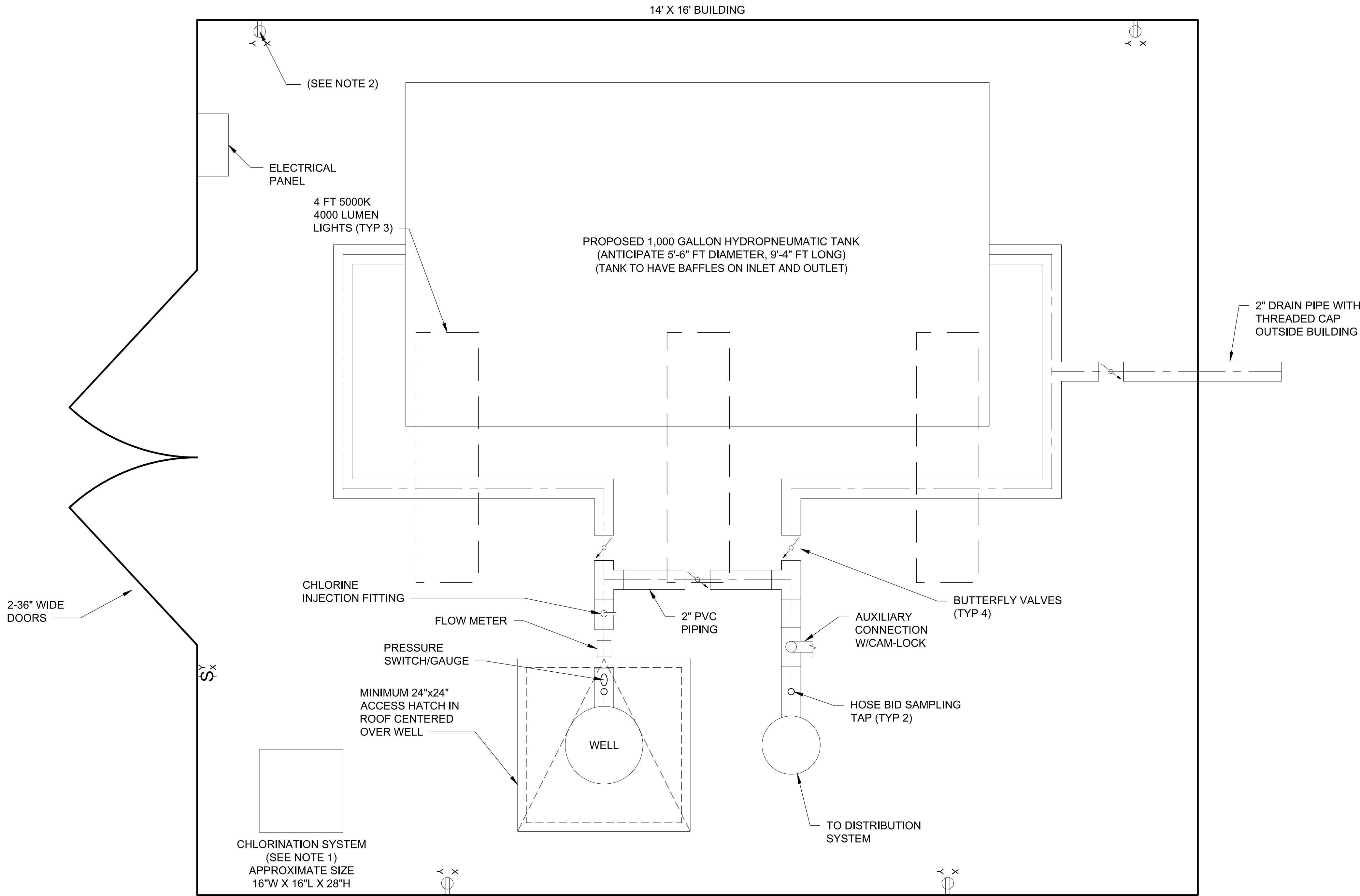
CAD DWG FILE: _____
DRAWN BY: DDT SGF MO
CHECKED BY: _____
DESIGNED BY: TJH

SHEET TITLE:
WELL DETAILS

SHEET NUMBER:

C-503

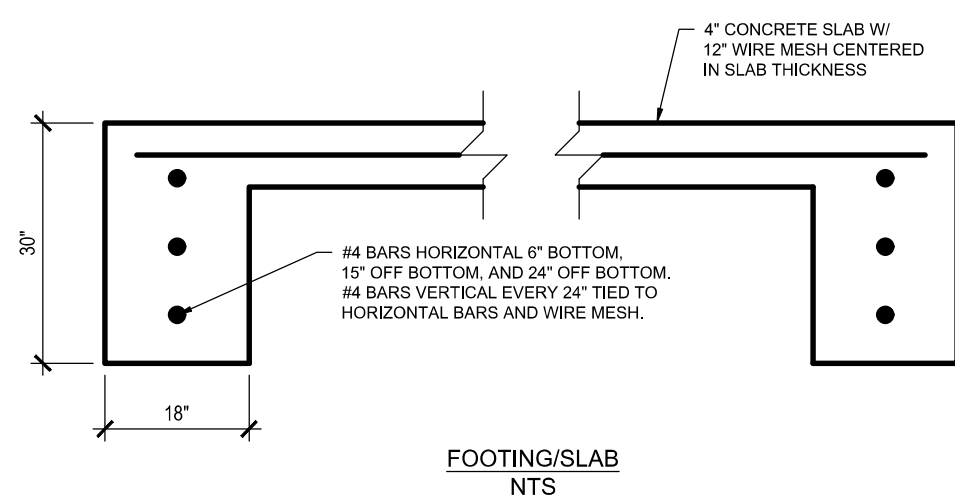
SHEET 7 OF 8
DATE: MARCH 10, 2026



TYPICAL WELL HOUSE LAYOUT



- NOTES:
1. CHLORINATION SYSTEM TO BE PULSAFEEDER INTEGRATED TANK SYSTEM; 15 GAL. MFR MODEL J63063 OR APPROVED EQUAL.
 2. CHLORINATION SYSTEM TO BE ON DEDICATED OUTLET THAT SHALL ONLY BE HOT WHEN WELL PUMP IS RUNNING.
 3. BUILDING TO BE STICK FRAME CONSTRUCTION WITH FINISHES SIMILAR TO THOSE SHOWN IN THE EXAMPLE PICTURES. BUILDING TO BE INSULATED WITH A MINIMUM OF R-19 BATT INSULATION. SOFFT AND FACIA SHALL BE ALUMINUM. BUILDING SHALL HAVE CONCRETE FOOTINGS AND SLAB AS DETAILED.
 4. FINAL WELL PUMP SIZING AND ELECTRICAL SERVICE PANEL AND SIZING TO BE DETERMINED BY WELL DRILLER AND ELECTRICIAN AND APPROVED BY OWNER AND ENGINEER.



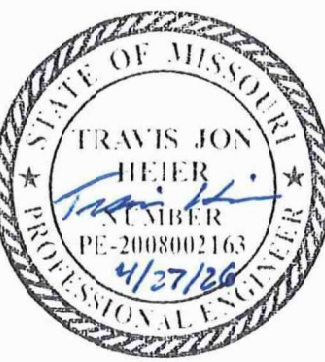
GENERAL NOTES

- NOTES:
1. EXISTING PRESSURE TANKS TO BE REMOVED.
 2. CONTRACTOR SHALL REMOVE EXISTING BUILDING.
 3. NEW 1,000 HYDROPNEUMATIC STORAGE TANK TO BE INSTALLED IN NEW BUILDING. CONTRACTOR TO VERIFY DIMENSIONS OF 1,000 GALLON TANK TO VERIFY ADEQUATE SPACE IS AVAILABLE IN PROPOSED BUILDING SIZE. TANK SHALL BE EQUIPPED WITH COMPRESSOR SIZED BY MANUFACTURER FOR SELECTED TANK. ACCESS HATCH IN TANK FOR INSPECTION AND CLEANING SHALL ALSO BE INCLUDED.
 4. CONTRACTOR TO CONSTRUCT NEW STICK FRAME BUILDING ON CONCRETE FOOTING AND CONCRETE SLAB FLOOR.
 5. ALL ELECTRICAL SERVICE SHALL BE INSTALLED AS NECESSARY FOR OPERATION OF WELL PUMP, CHLORINE INJECTION PUMP, AND ALL OTHER EQUIPMENT THAT IS IN NEW BUILDING.

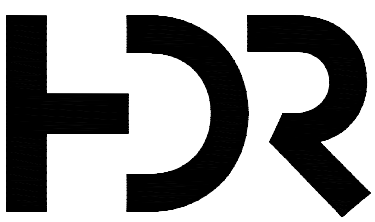
TANK NOTES:

1. HYDROPNEUMATIC TANKS SHALL BE CERTIFIED FOR DRINKING WATER USE UNDER THE LATEST VERSION OF ANS/NSF STANDARD 61.
2. LARGE HYDROPNEUMATIC TANKS WITH A GROSS VOLUME LARGER THAN 120 GALLONS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST ASME BOILER AND PRESSURE VESSEL CODE AS PUBLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
3. PROPER PROTECTION SHALL BE GIVEN TO METAL SURFACES OF HYDROPNEUMATIC TANKS.
 - a. INTERIOR COATINGS SHALL BE CERTIFIED FOR DRINKING WATER USE UNDER THE LATEST ANS/NSF STANDARD 61.
 - b. TANKS CONSTRUCTED OF STEEL OR OTHER METAL SUBJECT TO CORROSION SHALL HAVE BOTH INTERIOR AND EXTERIOR SURFACES PAINTED.
 - c. TANKS CONSTRUCTED OF CORROSION RESISTANT METALS SHALL NOT BE REQUIRED TO BE PAINTED. TANKS CONSTRUCTED OF CORROSION RESISTANT METALS SHALL BE CERTIFIED FOR DRINKING WATER USE UNDER THE LATEST ANS/NSF STANDARD 61.
 - d. HYDROPNEUMATIC TANKS 600 GALLONS OR GREATER IN SIZE SHALL HAVE INTERIORS THAT ARE EITHER EPOXY OR GLASS COATED.
4. HYDROPNEUMATIC TANKS 500 GALLONS OR GREATER IN SIZE AND ALL TANKS USED FOR DISINFECTION CONTACT TIME SHALL HAVE SEPARATE INLET AND OUTLET LINES TO PROVIDE POSITIVE FLOW THROUGH THE TANKS.
5. HYDROPNEUMATIC TANKS WITH GROSS VOLUME LESS THAN 500 GALLONS PER TANK SHALL BE CONSTRUCTED WITH THE FOLLOWING APPURTENANCES AND FEATURES:
 - a. EACH TANK SHALL BE EQUIPPED WITH A SCHRADER TYPE VALVE TO ALLOW AIR TO BE ADDED TO THE TANK AND TO CHECK AIR PRESSURE.
 - b. TANKS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS TO CONTROL PRESSURE/WATER LEVEL IN THE TANKS.
 - c. A MEANS TO MANAGE THE VOLUME AND PRESSURE OF AIR IN THE AIR CUSHION OF PRESSURE TANKS SHALL BE PROVIDED BUT THIS MAY BE DONE MANUALLY WITH PORTABLE EQUIPMENT.
 - d. THERE SHALL BE AT LEAST ONE PRESSURE GAGE IN THE TANK MANIFOLD.
 - e. SUFFICIENT SPACE SHALL BE PROVIDED AROUND THE TANKS TO BE ACCESSIBLE TO MAINTENANCE.
6. CONVENTIONAL PRESSURE TANKS SHALL HAVE A WATER SIGHT GLASS, A PRESSURE GAGE, A MECHANICAL MEANS OF ADDING AIR, A MEANS TO ADJUST THE AIR TO WATER RATIO AND A PRESSURE BLOW-OFF FOR EXCESS PRESSURE.
7. CONVENTIONAL TANKS WITH GROSS VOLUME OF 500 GALLONS OR MORE SHALL ALSO BE CONSTRUCTED WITH THE FOLLOWING APPURTENANCES AND FEATURES:
 - a. EACH TANK SHALL HAVE AT LEAST ONE MANWAY WITH MINIMUM DIAMETER OF 24-INCH CLEAR OPENING FOR CIRCULAR MANWAYS.
 - b. EACH TANK SHALL HAVE A DRAIN THAT SHALL DISCHARGE ABOVE NORMAL GROUND SURFACE WITH NO DIRECT CONNECTION TO A SEWER OR STORM DRAIN.
 - c. EACH TANK SHALL BE PROTECTED FROM FREEZING.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



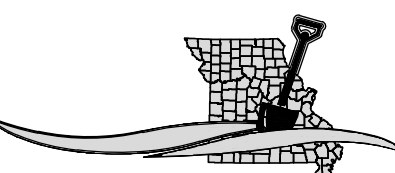
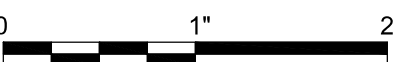
TRAVIS HEIER, P.E.
PE-2008002163
04/27/2026



MISSOURI CERTIFICATE OF
AUTHORITY #: 000856

PO BOX 969, 187 E. DAVID ST.
FORSYTH, MO 65653
417-546-3218

PROJECT #:10440837



MISSOURI
ONE CALL SYSTEM
Locate Request - 247
1-800-344-7483 or 811

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

WATER SUPPLY SYSTEM
BRYANT CREEK STATE
PARK

1204 PRIVATE DRIVE
AVA, MISSOURI 65608

PROJECT # X2409-01
SITE # 5610
FACILITY # 7815610001

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 03/10/2026

CAD DWG FILE: _____
DRAWN BY: DDT SGF MO
CHECKED BY: _____
DESIGNED BY: TJH

SHEET TITLE:
WELL HOUSE
PLAN VIEW

SHEET NUMBER:

A-101

SHEET 8 OF 8
DATE: MARCH 10, 2026