

GENERAL NOTES:

- THE CONTRACTOR SHALL CONTACT THE TENNESSEE ONE-CALL CENTER AT 1-800-351-1111 PRIOR TO DIGGING.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES.
- LOCATIONS OF EXISTING UTILITY FACILITIES, PUBLIC AND/OR PRIVATE, SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION PURPOSES ONLY. SOME EXISTING UTILITY FACILITIES MAY NOT BE SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. ANY POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE CARYVILLE-JACKSBORO UTILITIES COMMISSION AND SURVEY MEASUREMENTS COLLECTED IN THE FIELD. ANY DISCREPANCIES BETWEEN THE PLAN LOCATIONS AND THE ACTUAL FIELD LOCATIONS SHALL BE IMMEDIATELY COMMUNICATED TO THE DESIGN ENGINEER OR PROJECT MANAGER.
- THE EXISTING SITE FEATURES AS SHOWN OR INDICATED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY.
- LOCATION OF EXISTING RIGHT-OF-WAY (R.O.W.) LINES AND PROPERTY LINES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON PROPERTY INFORMATION FROM THE CAMPBELL COUNTY PROPERTY ASSESSOR'S OFFICE.
- CONTRACTOR SHALL VERIFY WORK IN THE FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO THE START OF CONSTRUCTION.
- TOPOGRAPHIC INFORMATION GENERALLY SHOWN IS FROM COLLECTED SURVEY MEASUREMENTS. CONTRACTOR TO FIELD VERIFY THESE ELEVATIONS AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AT THE START OF CONSTRUCTION.
- GAS LINES, WATER LINES, AND OTHER UTILITIES SHOWN FOR GENERAL INFORMATION PURPOSES. VERIFY LOCATION PRIOR TO WORK TO PREVENT DAMAGE. ALL COSTS ASSOCIATED WITH POT-HOLING OR LOCATING EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL COMPENSATION WILL BE MADE BY CARYVILLE-JACKSBORO UTILITIES COMMISSION FOR THESE TASKS.
- SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET AS DIRECTED BY THE ENGINEER. PRIOR TO DISTURBANCE, CONTACT THE ENGINEER TO LOCATE AND TIE DOWN MONUMENTS.
- EXISTING UTILITY SERVICE LINES, METERS, ETC. DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE GOVERNING UTILITY REQUIREMENTS AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROJECT SITE RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES. REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN ORIGINAL.
- THE CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO RESIDENTS AND BUSINESSES THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING THE COURSE OF WORK.
- ALL CONSTRUCTION PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MAY INCLUDE, BUT ARE NOT LIMITED TO, TRAFFIC CONTROL, EXCAVATION, HAZARDOUS MATERIALS, ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR THE APPLICATION, PURCHASING, OBTAINING, COMPLYING WITH, AND RENEWAL OF ALL CONSTRUCTION PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ADDITIONAL LAND DEEMED NECESSARY FOR A LAY DOWN AREA, STAGING AREA, OR PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO AND THROUGH EXISTING DRAINAGE FACILITIES WHERE IMPACTED BY THE WORK.
- WHEN EXCAVATION MUST OCCUR NEAR A UTILITY POLE, THE CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL AND/OR DIRECTION FROM LAFOLLETTE UTILITIES BOARD (LUB) PRIOR TO EXCAVATION.
- WHEN EXCAVATION MUST OCCUR NEAR A UTILITY POLE, THE CONTRACTOR SHALL EMPLOY A LICENSED ELECTRICAL CONTRACTOR TO GUY, ANCHOR, BRACE, MECHANICALLY HOLD, ETC. THE POLE THROUGHOUT THE EXCAVATION PROCESS AND UNTIL THE AREA CAN BE PROPERLY BACKFILLED AND COMPACTED TO PREVENT THE MOVEMENT OF THE POLE. IF THE EXCAVATION AFFECTS AN ANCHOR, THE POLE WILL NEED TO BE STABILIZED IN A SIMILAR MANNER UNTIL THE ANCHOR CAN BE REINSTALLED IN THE EXACT LOCATION. CONTRACTOR SHALL NOTIFY LUB NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO EXCAVATION WITHIN TWENTY (20) FEET OF ANY POLE AND SHALL PROVIDE INFORMATION TO LUB PERTAINING TO THE METHOD THAT IS TO BE USED TO STABILIZE THE POLE, AS WELL AS THE NAME OF THE ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE PORTION OF WORK.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL AND PROVIDE ADEQUATE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL SIGNS AND MARKING AS REQUIRED BY THE MUTCD THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH LOCAL REQUIREMENTS, AND THE LATEST EDITION OF THE MUTCD PRIOR TO ANY CONSTRUCTION ACTIVITIES FOR OWNER APPROVAL.
- ASPHALT AND OTHER CONSTRUCTION DEBRIS SHALL BE REMOVED OFFSITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- WHERE EXISTING PAVEMENT IS CUT, IT SHALL BE SAW CUT IN A NEAT STRAIGHT LINE THROUGH PAVEMENT AND BASE.
- ASPHALT PAVEMENT INSTALLATION AND REPAIRS SHALL BE IN ACCORDANCE WITH THE DETAILS UNLESS OTHERWISE NOTED HEREIN OR IN THE PROJECT SPECIFICATION DOCUMENTS.

EROSION AND SEDIMENT CONTROL NOTES:

- ALL SEDIMENT AND EROSION CONTROLS AND STRUCTURES TO BE IN PLACE BEFORE CONSTRUCTION BEGINS.
- OWNER: CARYVILLE-JACKSBORO UTILITIES COMMISSION, 585 MAIN STREET, JACKSBORO, TN 37757 APPROXIMATE TOTAL DISTURBED AREA: < 1 ACRES.
- EROSION AND SEDIMENT CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR COMPLIANCE, INSTALLATION, MAINTENANCE AND REMOVAL AS REQUIRED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) "EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION AS PUBLISHED BY TDEC. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THESE SPECIFICATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE INSTALLATION OF THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS A FIRST STEP IN THE SEQUENCE OF CONSTRUCTION.
- THE LOCATION OF SOME EROSION CONTROL DEVICES MAY BE FIELD ADJUSTED OR ALTERED FROM THAT SHOWN ON THE PLANS.
- MANDATORY MAINTENANCE AND HOUSEKEEPING OF SITE CONDITIONS, MATERIALS, AND EQUIPMENT SHALL BE OBSERVED EACH WORKING DAY AS TO NOT CREATE RISKS TO OTHERS SAFETY AND ENVIRONMENT.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- SILT FENCE SHALL BE INSTALLED AS REQUIRED TO PREVENT SEDIMENT FROM THIS PROJECT BEING DEPOSITED ON ANY ADJACENT PROPERTY OR INTO ADJACENT DRAINAGE PATHS.
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND OR REMOVAL OF ACCUMULATED SILTS AND SEDIMENT FROM THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF SAID STRUCTURES, ETC. ALL SILTS AND/OR SEDIMENTS REMOVED FROM THE EROSION/SEDIMENT CONTROL DEVICES SHALL BE DEPOSITED ONSITE IN SUCH A MANNER AS TO PREVENT SAID SILTS AND/OR SEDIMENT FROM REENTERING THE CONTROL DEVICES AND/OR EXITING THE SITE THROUGH THE STORM DRAINAGE SYSTEMS AND/OR SURFACE DRAINAGE.
- CONSTRUCTION ENTRANCES TO BE A MINIMUM 6" DEPTH T.D.O.T. NO. 1 OR NO. 2 STONE.
- CONTRACTOR SHALL PREVENT EROSION OF DISTURBED AREAS INTO ADJACENT STREAMS/DITCHES/STORM SEWER BY USING APPROPRIATE EROSION CONTROL DEVICES.
- INSTALL SILT FENCE ALONG CONTOURS AND AS SHOWN ON THE PLANS.
- INSTALL INLET PROTECTION DEVICES AT STORM SEWER INLETS PRIOR TO CONSTRUCTION.
- WHERE APPROPRIATE, WATTLES, SEDIMENT TUBES, ETC. MAY BE USED IN LIEU OF SILT FENCING WITH APPROVAL FROM THE OWNER OR ENGINEER.
- DISTURBED AREAS TO BE CONTAINED WITH APPROPRIATE SEDIMENT AND EROSION CONTROL DEVICES TO PREVENT MIGRATION OF SEDIMENT OFF SITE, INTO WATERWAYS, OR INTO THE LOCAL STORMWATER SYSTEM. IF EXCAVATED OR DISTURBED AREA CANNOT BE STABILIZED WITH PERMANENT OR TEMPORARY MEASURES (INCLUDING PAVEMENT) AS PRACTICAL OR BEFORE A RAIN EVENT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE NECESSARY.
- WATER MAINS AND EXCAVATED AREAS SHALL BE BACKFILLED AND STABILIZED WITHIN THE SAME WORKING DAY AND BEFORE A RAIN EVENT. OTHERWISE, THE WORKING AREA SHALL HAVE APPROPRIATE SEDIMENT AND EROSION CONTROL FEATURES INSTALLED AS NECESSARY.
- AFTER COMPLETING EACH SECTION OF THE PIPE, ALL DEBRIS AND CONSTRUCTION MATERIALS SHALL BE REMOVED FROM THE WORK SITE. THE DISTURBED GROUND SURFACE SHALL BE SMOOTHLY GRADED.
- ALL GRADED SLOPES 2:1 OR STEEPER SHALL BE COVERED WITH AN EROSION CONTROL BLANKET BY NORTH AMERICAN GREEN OR OTHER APPROVED MANUFACTURER. BLANKET SHALL BE DESIGNED FOR THE SLOPE CONDITIONS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- RIP-RAP CHECK DAMS SHALL BE PLACED IN ALL DIVERSION DITCHES AND, AS OTHERWISE SHOWN ON THE THE PLANS.
- ALL STOCK PILE AREAS TO BE PROTECTED BY SILT FENCE OR APPROVED EQUIVALENT.

TEMPORARY SEEDING:

- AREAS TO BE TEMPORARILY STABILIZED WITH GRASS SHALL FOLLOW THESE GENERAL GUIDELINES.
- SEED MIXTURES SHALL BE APPLIED AT APPROXIMATELY 10 LBS/1,000 SQ. FT. OR PER MANUFACTURER'S RECOMMENDATION.
- SEED MIXTURE RATIOS SHALL FOLLOW RECOMMENDATIONS FOR THE APPLICABLE TIME OF YEAR AS DESCRIBED IN THE BEST MANAGEMENT PRACTICE FOR "DISTURBED AREA STABILIZATION (WITH TEMPORARY VEGETATION)," ACCORDING TO THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).

SITE NOTES:

- CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING INDUSTRIES AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN EXISTING ACCESS ROAD TO PROVIDE HOLSTON GASES PERSONNEL ACCESS TO THEIR EXISTING FACILITIES.
- AT CONCLUSION OF CONSTRUCTION, THE EXISTING GRAVEL DRIVE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
- CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR OBSERVATION, TESTING, AND RECOMMENDATIONS FOR THE TANK FOUNDATION.
- REMOVE ALL TOPSOIL AND ORGANICS FROM THE TANK SITE AND, WORKING AREA AROUND THE TANK.
- MATERIAL UTILIZED FOR STRUCTURAL FILL SHALL BE CLEAN SOIL FREE OF ORGANICS AND OTHER DELETERIOUS MATERIAL, CONTAINING NO ROCK FRAGMENTS GREATER THAN 6 INCHES IN ANY DIMENSION. STRUCTURAL SOIL FILL SHALL HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY OF 90 PCF OR GREATER AND A PLASTICITY INDEX OF 35 PERCENT OR LESS. ON-SITE MATERIALS MAY BE UTILIZED IF APPROVED BY THE GEOTECHNICAL ENGINEER.
- PLACE STRUCTURAL FILL IN LOOSE HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS. COMPACT EACH LIFT TO 98% OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM D698 WITHIN -2% TO +3% OF OPTIMUM MOISTURE CONTENT. EACH LIFT SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER.
- DENSE GRADED AGGREGATE (TYPE A, GRADING D OR E PER TDOT 903.05) MAY BE USED AS BACKFILL IN THE UNDERCUT AREAS. THE DGA SHALL BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED TO 98% MAXIMUM DRY DENSITY. EACH LIFT SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER.
- THE TANK SUBGRADE SHALL NOT BE ALLOWED TO DRY OR GET EXCESSIVELY WET DURING CONSTRUCTION.

PIPING NOTES:

- CONNECTION TO THE EXISTING WATER MAINS SHALL BE MADE UNDER THE SUPERVISION OF THE OWNER'S REPRESENTATIVE.
- COORDINATE THE CONNECTION LOCATIONS WITH THE OWNER'S REPRESENTATIVE. EXCAVATE THE EXISTING PIPING AND PROVIDE A PLAN FOR PIPE CONNECTIONS FOR APPROVAL PRIOR TO ORDERING MATERIALS OR COMMENCING WORK.
- ALL BURIED FITTINGS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINTS BY MEGALUG OR SIGMA. ALL PIPING SHALL BE PROPERLY RESTRAINED BY RESTRAINING GASKETS OR JOINT RESTRAINERS ADJACENT TO BENDS ACCORDING TO THE TYPICAL DETAILS.
- THE OVERFLOW DISCHARGE VALVE SHALL BE TIDFLEX SERIES 35-1, ANSI B16.10, CLASS 150# FLANGED, EPDM CONSTRUCTION, WITH STAINLESS STEEL BACKUP RINGS OR, ENGINEER APPROVED ALTERNATE.
- ALL WATER MAINS TO BE BEDDED AND BACKFILLED WITH MATERIALS WITH NO ROCK FRAGMENTS IN EXCESS OF 1" IN ANY DIMENSION. CLEAN SOIL OR AGGREGATE MEETING THE ABOVE REQUIREMENT ARE ACCEPTABLE FOR USE AS BEDDING AND INITIAL BACKFILL.
- WATER MAINS OUTSIDE THE TANK SITE SHALL BE ATSM D2241, SDR17 PVC.

LEGEND:

---	EXISTING PROPERTY LINE	---	NEW PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE	---	NEW RIGHT-OF-WAY
---	EXISTING RIGHT-OF-WAY	---	NEW EASEMENT
---	EXISTING EASEMENT	---	NEW INDEX CONTOUR
---	EXISTING INDEX CONTOUR	---	NEW INTERMEDIATE CONTOUR
---	EXISTING INTERMEDIATE CONTOUR	---	NEW FENCE
---	EXISTING FENCE	---	NEW DITCH FLOW LINE
---	EXISTING CHAIN LINK FENCE	---	NEW SANITARY SEWER LINE
---	EXISTING IRON FENCE	---	NEW SANITARY SEWER LINE
---	EXISTING WOOD FENCE	---	NEW STORM SEWER LINE
---	EXISTING DITCH FLOW LINE	---	NEW GAS LINE
---	EXISTING SANITARY SEWER LINE	---	NEW WATER LINE
---	EXISTING SANITARY FORCE MAIN LINE	---	NEW FIBER OPTIC LINE
---	EXISTING COMBINED SEWER LINE	---	NEW TELEPHONE LINE
---	EXISTING STORM SEWER LINE	---	NEW UNDERGROUND ELEC. LINE
---	EXISTING GAS LINE	---	NEW OVERHEAD ELECTRIC
---	EXISTING WATER LINE	---	NEW SPOT ELEVATION
---	EXISTING FIBER OPTIC LINE		
---	EXISTING TELEPHONE LINE		
---	EXISTING UNDERGROUND ELEC. LINE		
---	EXISTING OVERHEAD ELECTRIC		
---	EXISTING TREELINE		
---	EXISTING BUSHES		
---	EXISTING SPOT ELEVATION		

○	TRAVERSE POINT	○	MAILBOX
●	IRON PIN FOUND	○	FLAG POLE
▲	RAILROAD SPIKE FOUND	○	GROUND LIGHT
▲	MAG / PK NAIL FOUND	○	SIGN
○	CHISELED MARK FOUND	○	SATELLITE DISH
■	CONCRETE MONUMENT FOUND	○	LIGHT STANDARD
■	R/W MONUMENT FOUND	○	AC UNIT
■	STONE FOUND	○	BOLLARD
■	FENCE POST FOUND	○	PARKING METER
○	DRILL HOLE FOUND	○	ANTENNA
○	AERIAL CONTROL POINT	○	GRAVE
○	GPS STATION	○	HANDICAP PARKING SYMBOL
○	BENCHMARK	○	TEST PIT
○	IRON PIPE FD. (SIZE)	○	MONITORING WELL @ TOP OF COVER
○	STATE MONUMENT	○	SOIL SAMPLE
○	REBAR FD. (SIZE)	○	TEST SITE
○	NAIL FOUND	○	STORM MANHOLE
○	WOOD STAKE/HUB	○	CATCH BASIN (TYPE)
○	ANGLE IRON	○	CURB INLET
○	AXLE	○	RISER PIPE
○	LEAD PLUG	○	INLET (CIRCULAR)
○	SECTION CORNER MON.	○	DRAIN
○	MAG NAIL SET	○	BEEHIVE INLET SQUARE
○	REBAR IRON PIN SET & CAP	○	INLET SQUARE
○	CUT "X" SET	○	RECESSED CURB INLET
○	CONCRETE MONUMENT SET		
○	PERMANENT MARKER (SIZE)		

○	SAN UTILITIES	○	SANITARY MANHOLE
○	CLEAN OUT	○	COMBINATION MANHOLE
○	STAND PIPE (RISER)	○	LIFT STATION
○	WATER MANHOLE	○	WATER BOX (WATER VALVE)
○	FIRE HYDRANT	○	WATER WELL
○	SPRINKLER VALVE	○	WATERLINE MARKER
○	WATER METER	○	WATER PUMP
○	HOSE BIB BUILDING	○	PIV - POST INDICATOR VALVE
○	SPRINKLER HEAD	○	IRRIGATION VALVE
○	IRRIGATION CONTROL BOX	○	FIRE DEPT. CONNECTION
○	FIRE DEPT. CONNECTION	○	FIRE DEPT. CONNECTION (BLDG.)
○	FARM SPIGOT		

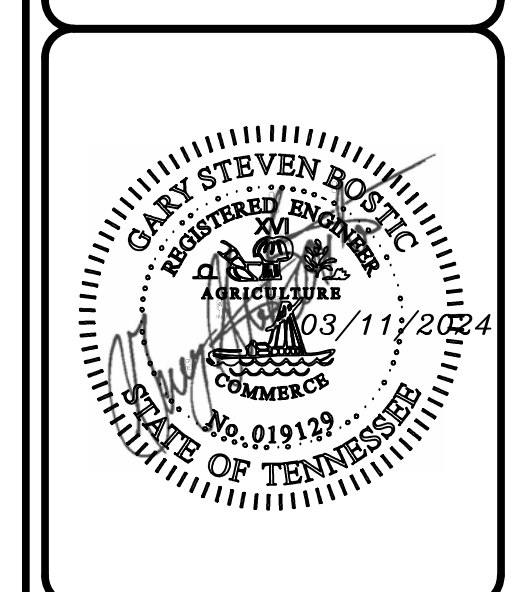
○	GAS UTILITIES	○	GAS MANHOLE
○	GAS LINE MARKER	○	GAS BOX (GAS VALVE)
○	GAS TAP	○	PROPANE TANK
○	GAS WELL	○	TREE, DECIDUOUS (800 SIZE TYPE)
○	TREE, CONIFER (800 SIZE TYPE)	○	BUSH/SHRUB (SIZE)
○	POWER POLE	○	GUY WIRE
○	GUY POLE	○	FIBER OPTIC PULL BOX (FLUSH WITH GRADE)
○	TELEPHONE PEDESTAL	○	TELEPHONE LINE MARKER
○	TELEPHONE MANHOLE	○	ELECTRIC MANHOLE
○	ELECTRIC LINE MARKER	○	ELECTRIC PULL BOX (FLUSH WITH GRADE)
○	ELECTRIC CONTROL BOX (ON BUILDING)	○	ELECTRIC METER
○	HIGH TENSION TOWER	○	FIBER OPTIC MARKER
○	ELECTRIC METER	○	TRAFFIC POLE
○	TEST BORING	○	TRAFFIC MANHOLE

○	MISC. UTILITIES	○	CABLE PEDESTAL
○	TRAFFIC SIGNAL BOX/CABINET (ABOVE GRADE)	○	MANHOLE (UTILITY UNKNOWN)
○	OIL WELL	○	VALVE BOX (UNKNOWN, FLUSH WITH GRADE)
○	TELEPHONE PULL BOX (FLUSH WITH GRADE)	○	UTILITY CABINET (UNKNOWN, ABOVE GRADE)
○	VAULT	○	ELECTRIC HANDHOLE
○	STEAM MANHOLE	○	TRANSFORMER
○	STAND PIPE	○	TRAFFIC PULL BOX (FLUSH WITH GRADE)
○	TRAFFIC DETECTOR HOUSING	○	FIBER OPTIC PULL BOX (FLUSH WITH GRADE)
○	UTILITY POLE	○	ELECTRIC CONTROL CABINET (ABOVE GRADE)
○	TELEPHONE BOX/CABINET (ABOVE GRADE)	○	FIBER OPTIC BOX/CABINET (ABOVE GRADE)
○	FIBER OPTIC MANHOLE	○	UTILITY PULL BOX (UNKNOWN, FLUSH WITH GRADE)
○	ELECTRIC PEDESTAL		



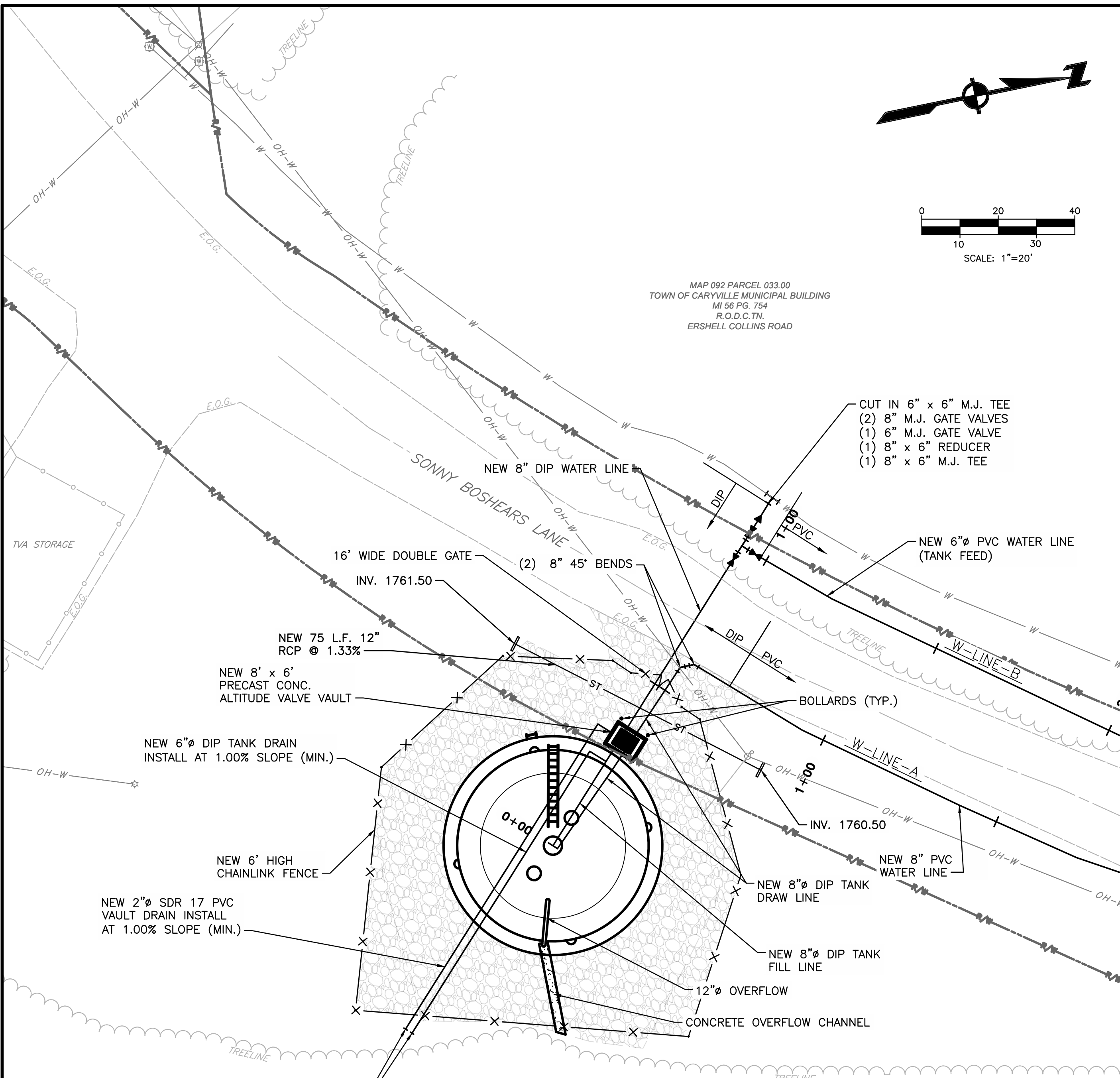
REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
CAMPBELL COUNTY, TENNESSEE
ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



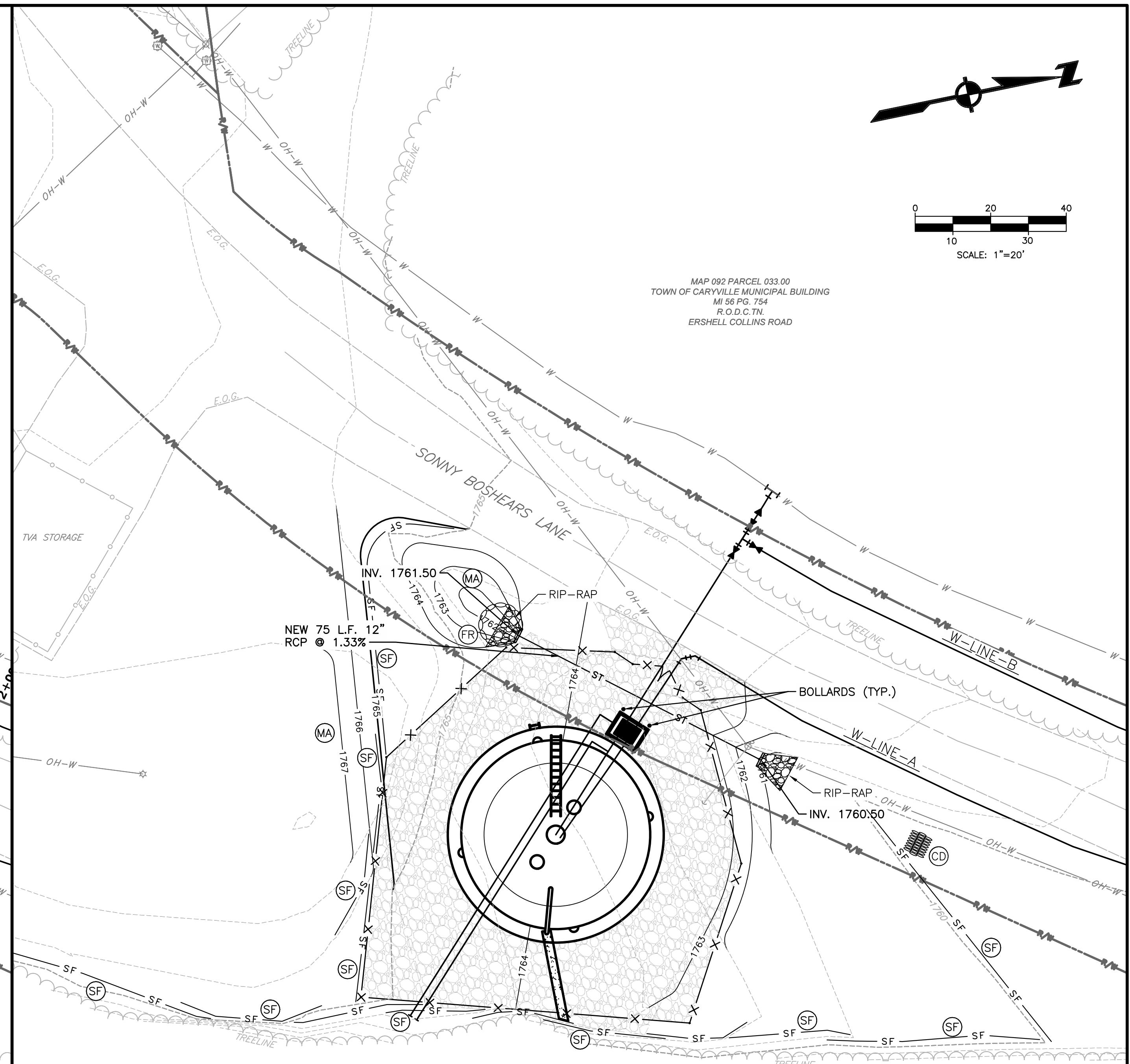
PROJECT NUMBER: CUJ305	
DATE: 03/2024	SCALE: AS SHOWN
DRAWN BY: BAS	DESIGNED BY: GSB
SHEET TITLE: GENERAL NOTES AND LEGEND	

P:\CADD\DESIGN\SHEET FILES\CAD\002_GENERAL NOTES & LEGENDING_3/11/2024_11:48 AM_BROWLEY SMITH



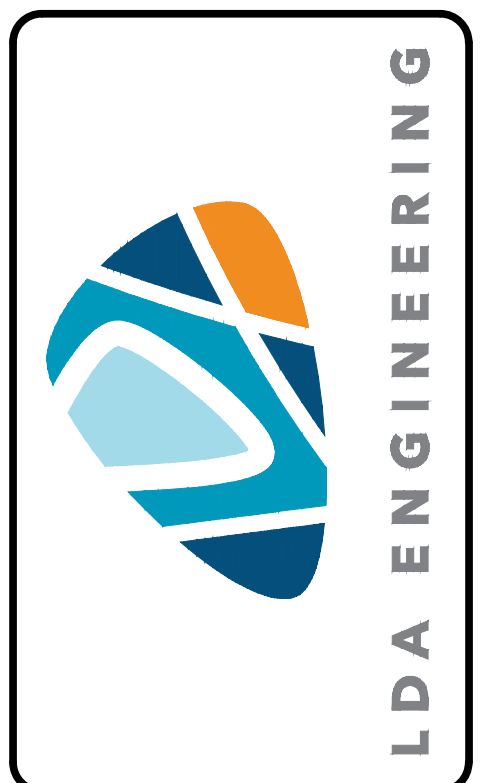
YARD PIPING PLAN
SCALE: 1"=20'

MAP 104 PARCEL 003.00
UTICA REALTY CARYVILLE, LLC.
WDB 487 PG. 314
R.O.D.C.TM.
1126 LUTHER SEIBER BOULEVARD



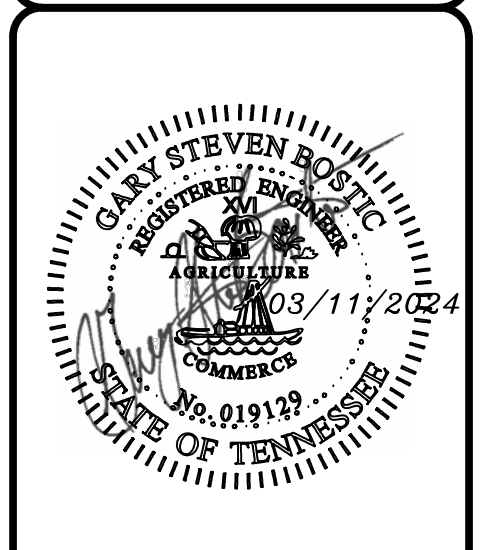
GRADING PLAN
SCALE: 1"=20'

MAP 104 PARCEL 003.00
UTICA REALTY CARYVILLE, LLC.
WDB 487 PG. 314
R.O.D.C.TM.
1126 LUTHER SEIBER BOULEVARD



REV	DATE	REVISION DESCRIPTION

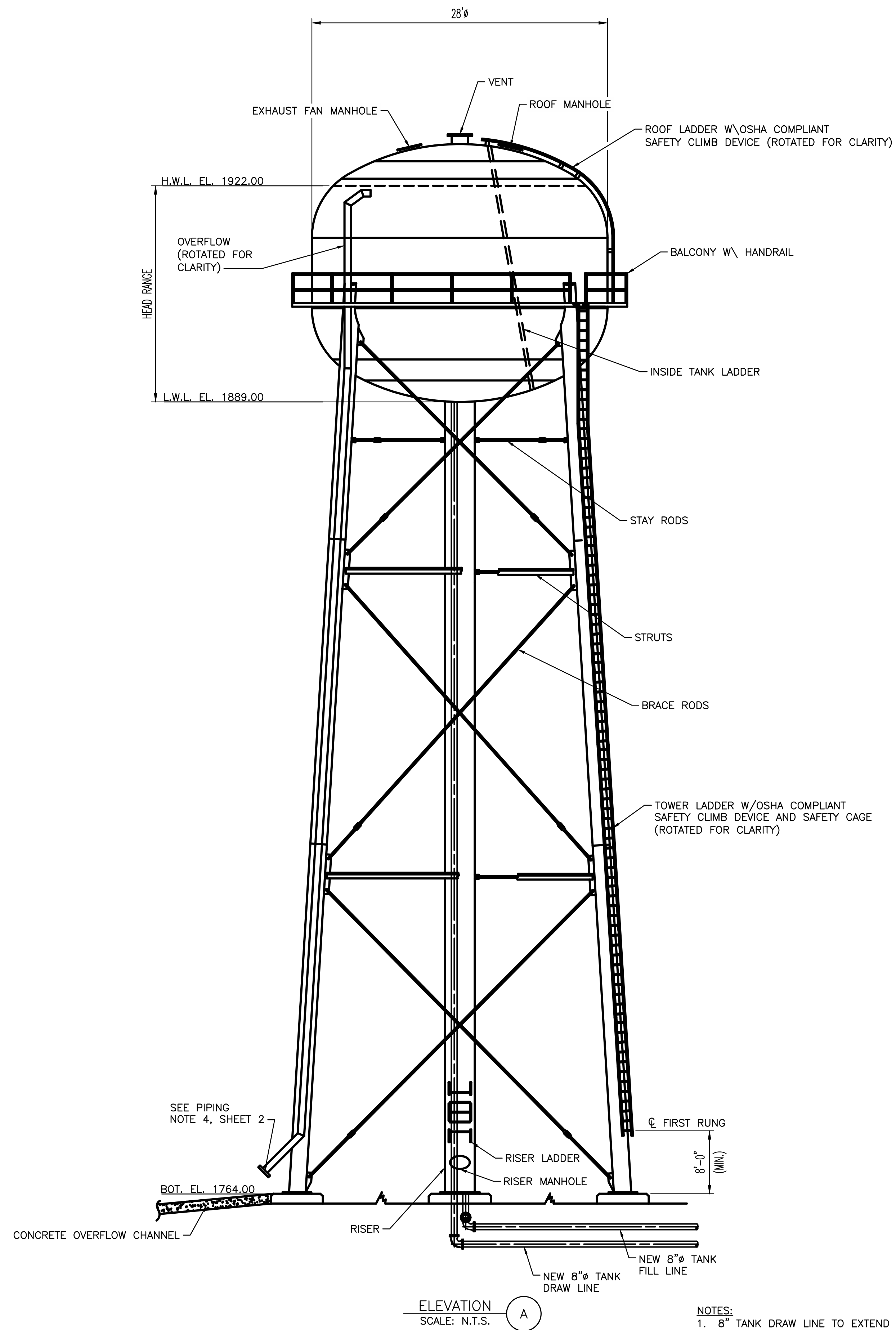
CARYVILLE-JACKSBORO UTILITIES COMMISSION
CAMPBELL COUNTY, TENNESSEE
ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



PROJECT NUMBER:	CJU305
DATE:	03/2024
SCALE:	1"=20'
DRAWN BY:	BAS
DESIGNED BY:	GSB
SHEET TITLE:	YARD PIPING PLAN & GRADING PLAN

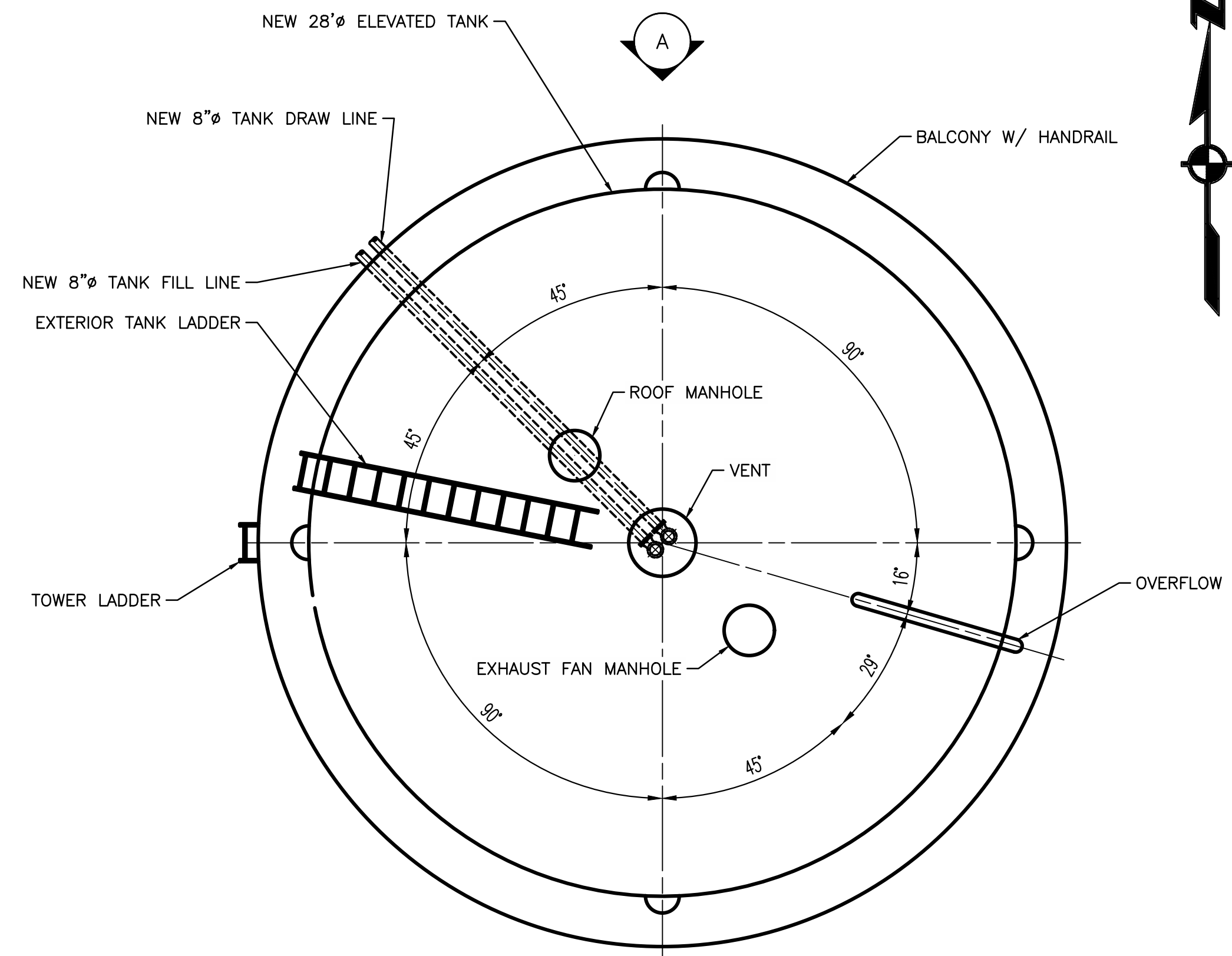
P:\CADD\DESIGN\SHEET FILES\CAD\033.00\DWG & GRADING PIPING_3/11/2024_11:48 AM.DWG/LSM

P:\CAD\DWG\DESIGN\SHEET FILES\CAD\DWG\DESIGN\3/11/2024 11:49 AM DWG\LEY.SMT

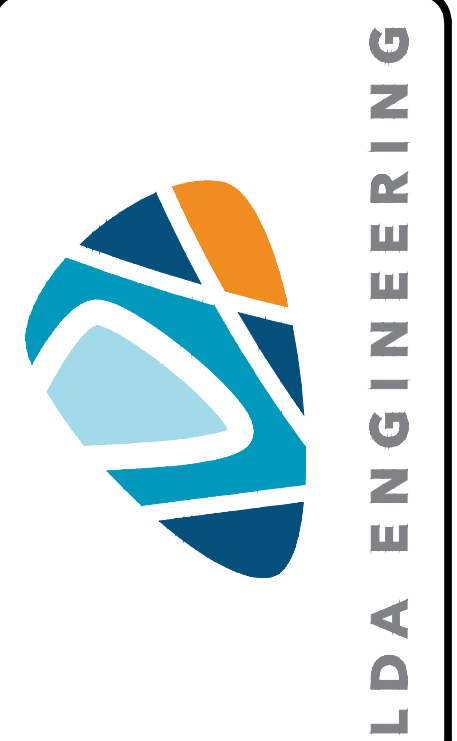


ELEVATION
SCALE: N.T.S.

- NOTES:
- 8" TANK DRAW LINE TO EXTEND TO BOTTOM OF TANK BOWL TO PROVIDE PROPER SEPARATION OF HIGH AND LOW PRESSURES.
 - SEE GEOTECHNICAL REPORT FOR FOUNDATION REQUIREMENTS.

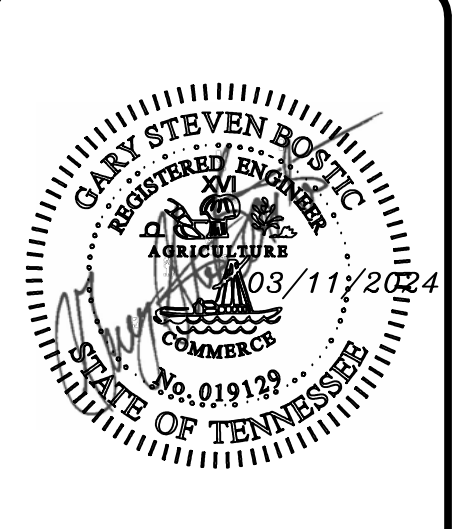


TANK PLAN
SCALE: N.T.S.



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
CAMPBELL COUNTY, TENNESSEE
ERSHELL COLLINS INDUSTRIAL PARK WATER TANK

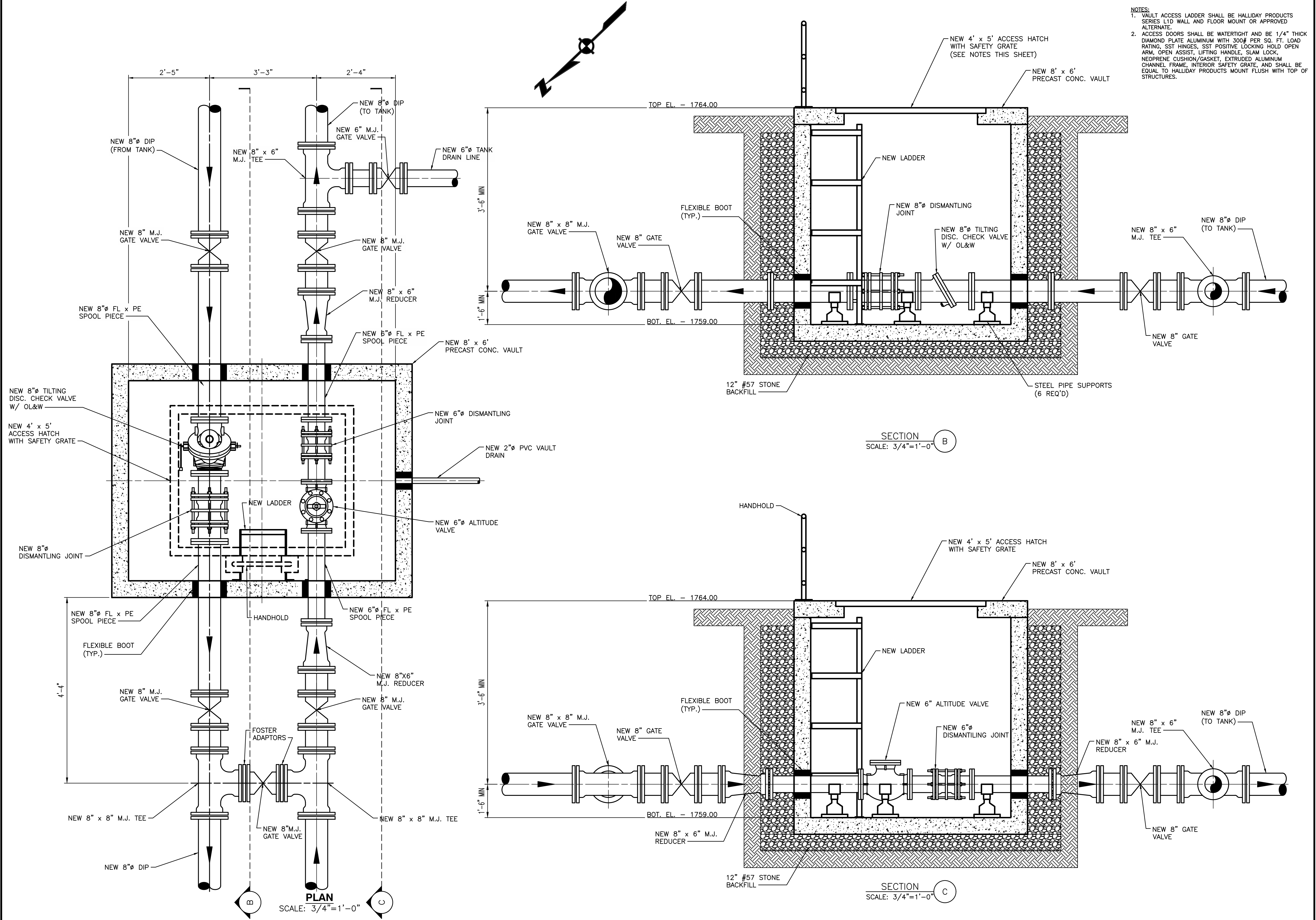


PROJECT NUMBER: CJU305
DATE: 03/2024 SCALE: AS SHOWN
DRAWN BY: BAS DESIGNED BY: GSB

SHEET TITLE:
NEW 150,000 GAL
ELEVATED TANK PLAN
AND SECTION

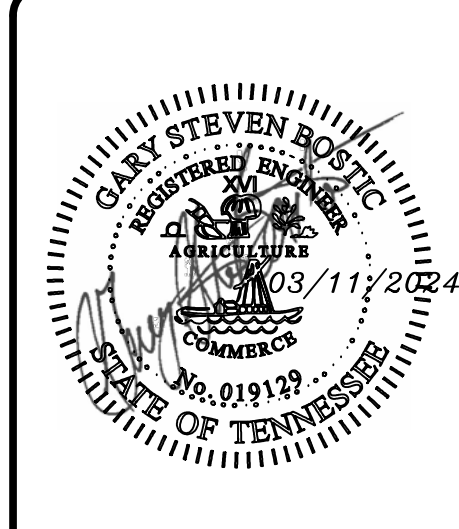


- NOTES:
1. VAULT ACCESS LADDER SHALL BE HALLIDAY PRODUCTS SERIES LTD WALL AND FLOOR MOUNT OR APPROVED ALTERNATE.
 2. ACCESS DOORS SHALL BE WATERTIGHT AND BE 1/4" THICK DIAMOND PLATE ALUMINUM WITH 300# PER SQ. FT. LOAD RATING, SST HINGES, SST POSITIVE LOCKING HOLD OPEN ARM, OPEN ASSIST, LIFTING HANDLE, SLAM LOCK, NEOPRENE CUSHION/GASKET, EXTRUDED ALUMINUM CHANNEL FRAME, INTERIOR SAFETY GRATE, AND SHALL BE EQUAL TO HALLIDAY PRODUCTS MOUNT FLUSH WITH TOP OF STRUCTURES.



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
 CAMPBELL COUNTY, TENNESSEE
 ERSHELL COLLINS INDUSTRIAL PARK WATER TANK

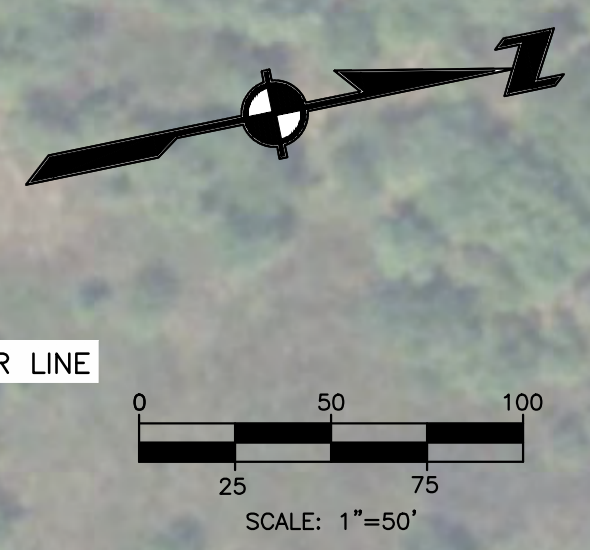
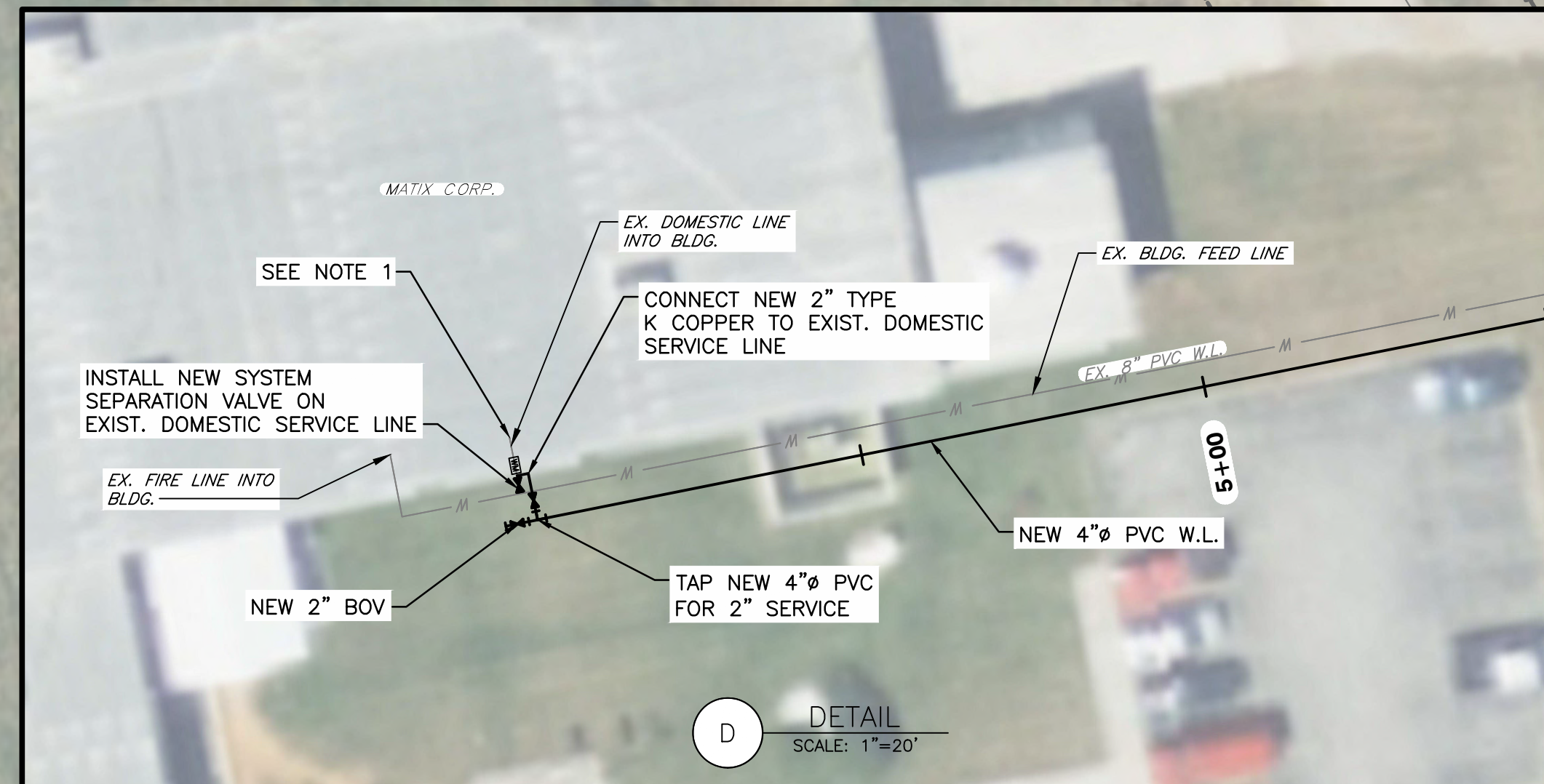


PROJECT NUMBER: CUJ305
 DATE: 03/2024 SCALE: AS SHOWN
 DRAWN BY: BAS DESIGNED BY: GSB

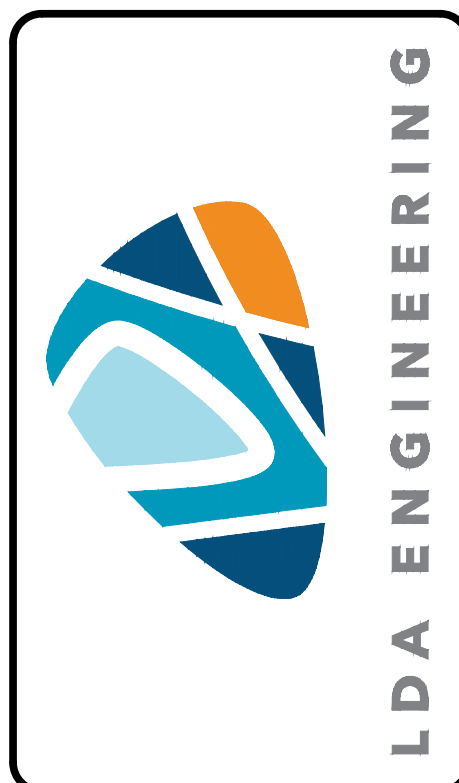
SHEET TITLE:
 ALTITUDE VALVE VAULT
 PLAN AND SECTION

P:\CADD\DESIGN\SHEET FILES\CAD\ONE ALTITUDE VALVE VAULTING_3/11/2024 11:50 AM DWGLEY.SMT

PLANNING/SHEET FILES/CADD/01 WATER LINE PULLING_3/11/2024_11:50 AM, BRADLEY SMITH

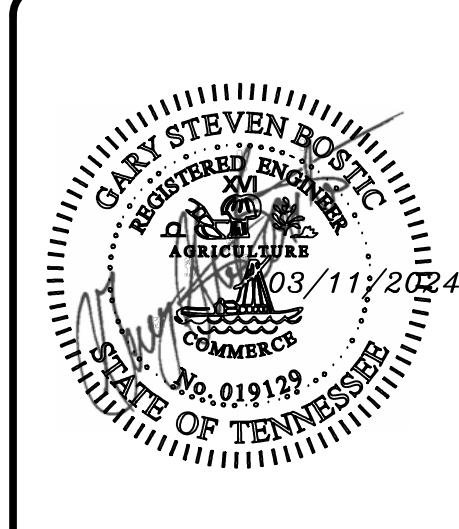


- NOTES:
1. AFTER NEW 4" MAIN IS INSTALLED AND TESTED, DISCONNECT EXISTING DOMESTIC SERVICE LINE FROM EXISTING MATIX METER AND CONNECT METER ASSEMBLY TO NEW 2" SERVICE LINE.
 2. COORDINATE FINAL LOCATION OF 8" STUB TO PARCEL 033.00 WITH PLANS FOR NEW INDUSTRIAL SITE UTILITIES.
 3. COORDINATE CONNECTIONS TO EXISTING DOMESTIC LINES AND TEMPORARY HYDRANT DOWN TIME WITH OWNERS OF INDUSTRIAL BUILDINGS.



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
 CAMPBELL COUNTY, TENNESSEE
 ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



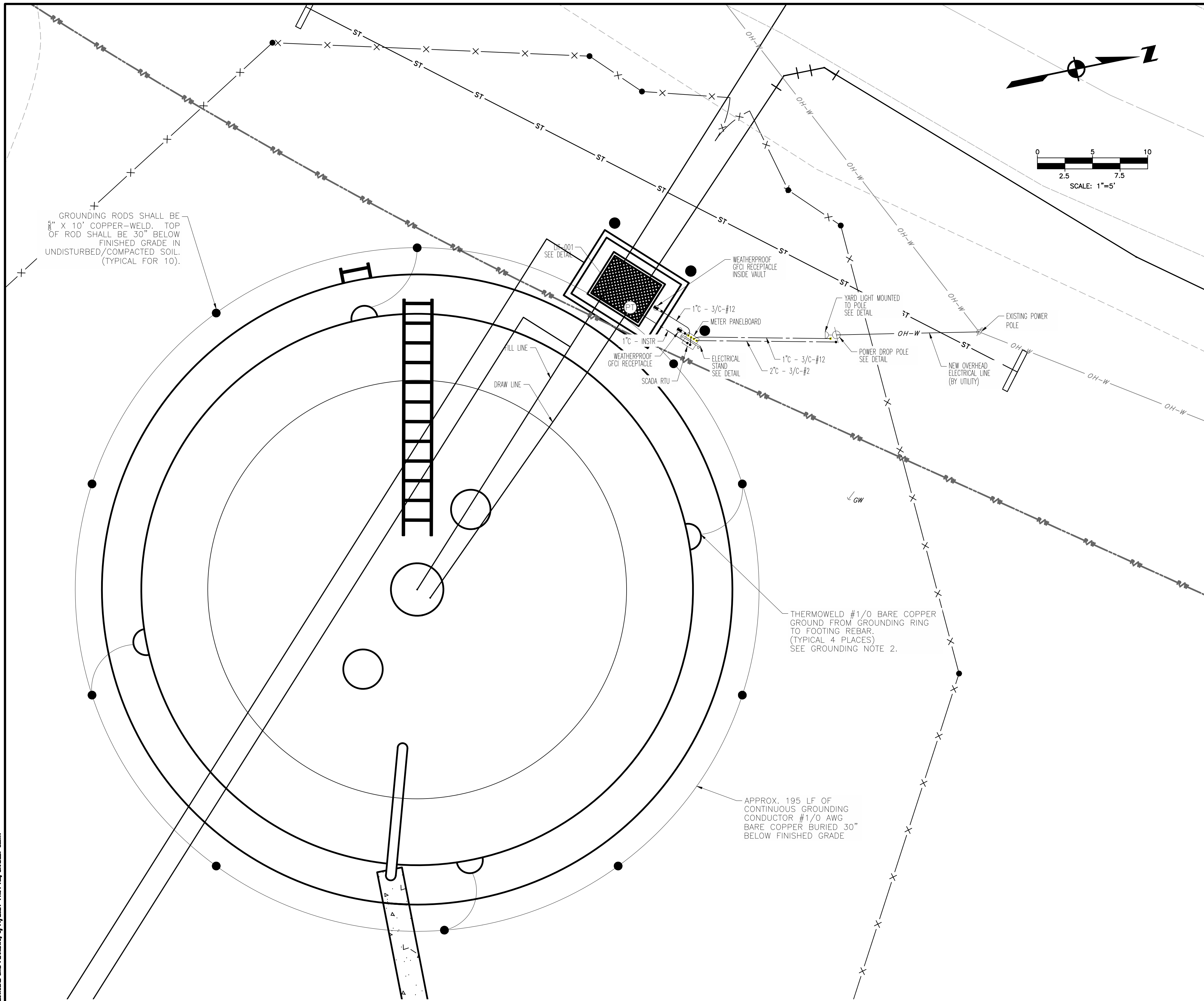
PROJECT NUMBER: CUJ305
 DATE: 03/2024 SCALE: 1"=50'
 DRAWN BY: BAS DESIGNED BY: GSB

SHEET TITLE:
 WATER LINE PLAN

SHEET 6 OF 12

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF LDA ENGINEERING AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF LDA ENGINEERING.

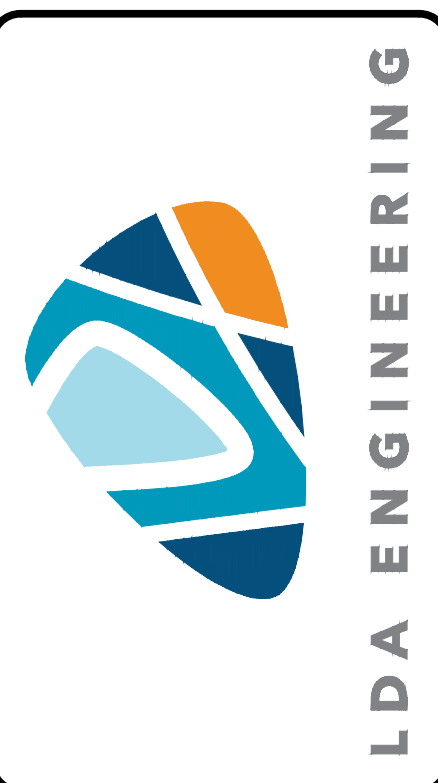
P:\CAD\DESIGN\2024\03\NEW TANK ELECTRICAL SITE PLAN.DWG, 3/11/2024 11:54 AM, DWYLER, SMITH



ELECTRICAL SITE PLAN
SCALE: 1"=5'

GROUNDING NOTES:

1. GROUNDING SYSTEM SHALL BE TESTED AND CERTIFIED TO BE 10 OHMS OR LESS RESISTANCE AFTER INSTALLATION. IF NEEDED, ADDITIONAL GROUND RODS SHALL BE INSTALLED AND CONNECTED TO CONTINUOUS GROUNDING CONDUCTOR UNTIL THE 10 OHM MAXIMUM RESISTANCE IS MET.
2. ALL CONNECTIONS TO COPPER RING SHALL BE BY EXOTHERMIC WELD.
3. NO SOIL CONDUCTIVITY OR RESISTIVITY TESTING WAS PERFORMED ON THIS SITE.



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
CAMPBELL COUNTY, TENNESSEE
ERSHELL COLLINS INDUSTRIAL PARK WATER TANK

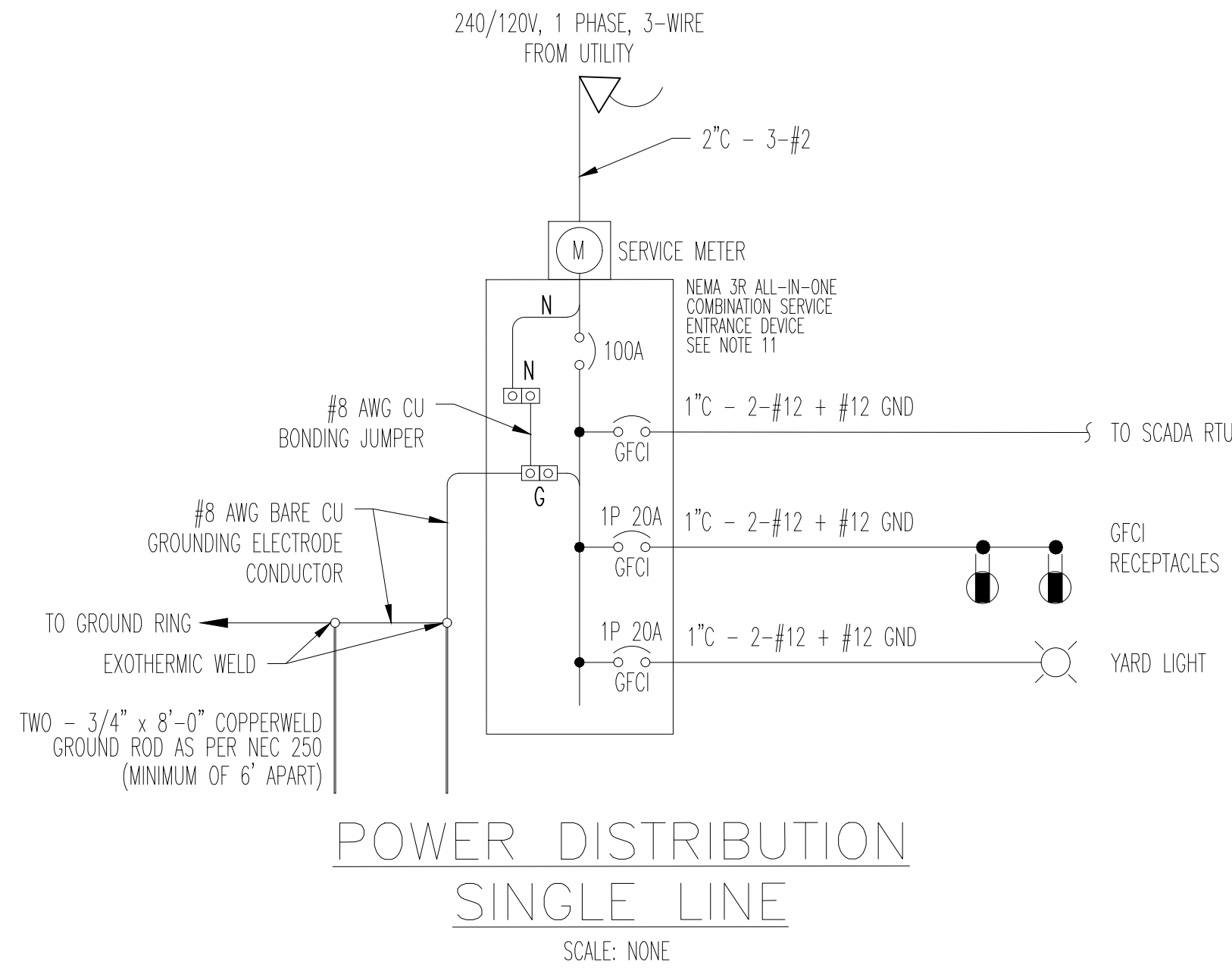


PROJECT NUMBER:	CJU305
DATE:	03/2024
SCALE:	AS SHOWN
DRAWN BY:	GSH
DESIGNED BY:	GSH

SHEET TITLE:
NEW TANK
ELECTRICAL SITE PLAN

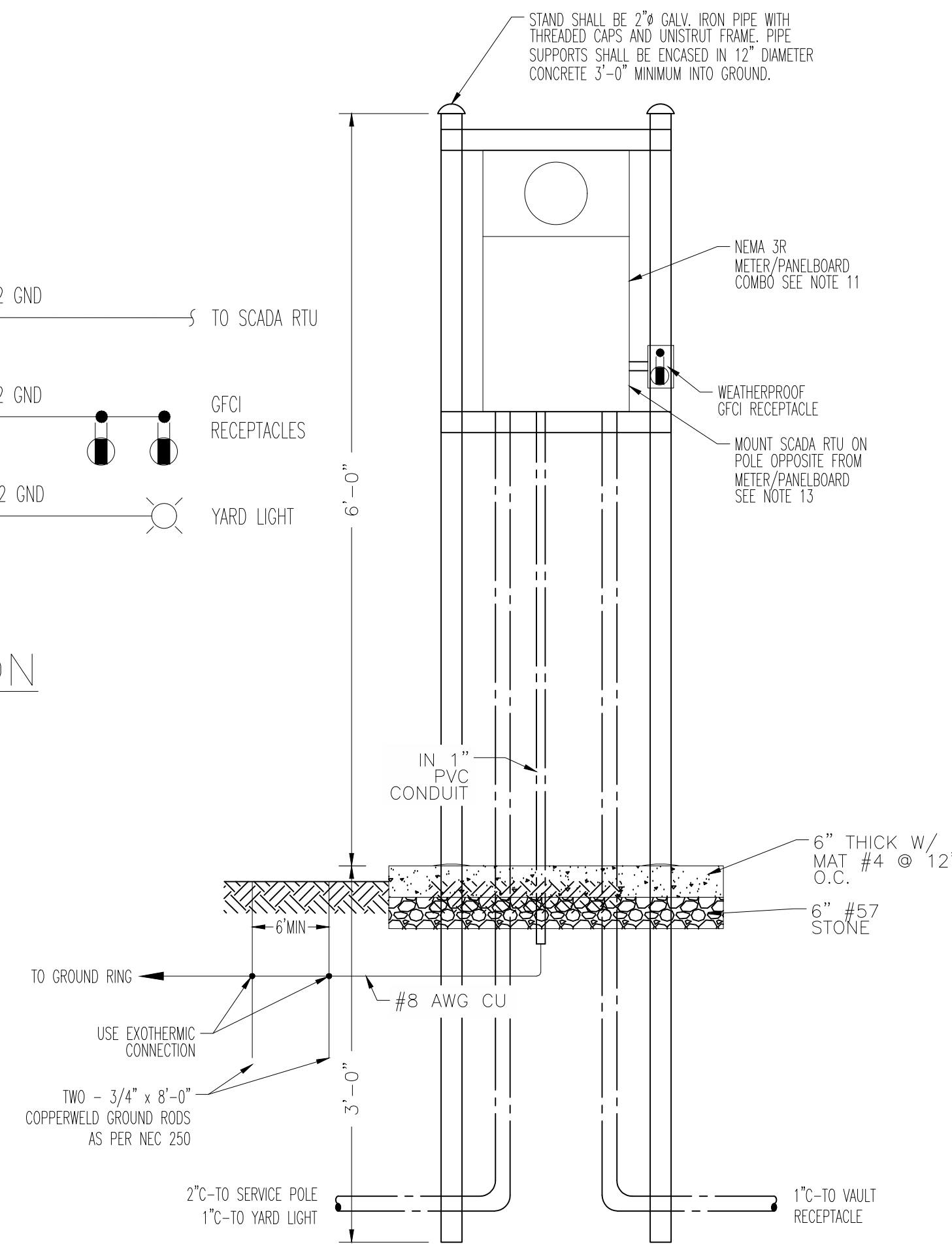
ELECTRICAL NOTES

- ALL CONDUCTORS SHALL BE #12 AWG XHHW/XHHW-2 COPPER MINIMUM UNLESS OTHERWISE SPECIFIED.
- ALL CONDUITS SHALL BE 1 INCH MINIMUM.
- NEW UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC OR RIGID METAL CONDUIT WHERE EXPOSED ABOVE GRADE.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE, NFPA 70. SHOULD THE PLANS AND CODES CONFLICT, THE CODE TAKES PRECEDENCE. MAKE NO CHANGES EVEN IN THE CASE OF CONFLICT WITHOUT FIRST OBTAINING APPROVAL OF THE ENGINEER.
- MATERIAL SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES, INC. OR OTHER RECOGNIZED TEST FACILITY. EQUIPMENT SHALL BE IDENTIFIED FOR USE.
- INSTALL SPECIFIED EQUIPMENT AS NOTED ON THE DRAWINGS OR APPROVED ALTERNATE.
- LOCATION OF EXISTING UNDERGROUND ELECTRICAL LINES SHOULD BE VERIFIED BEFORE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. SHOULD THE EXISTING ELECTRICAL LINES BE LOCATED UNDERNEATH THE PROPOSED IMPROVEMENTS, CONSULT ENGINEER FOR GUIDANCE ON RELOCATION.
- CONTRACTOR SHALL FURNISH AND INSTALL DROP POLE AND COORDINATE WITH THE ELECTRIC UTILITY TO ENSURE COMPLIANCE WITH ALL LOCAL UTILITY REQUIREMENTS.
- POLE MOUNTED LUMINAIRE SHALL BE SIGNIFY, STONCO LED FLOODLIGHT A, MODEL #FL300-NW-G1-T-FL-8-BZ. MOUNTING HARDWARE FOR MOUNTING TO WOOD POLE.
- FURNISH AND INSTALL OUTDOOR PHOTO CELL FOR DUSK-TO-DAWN LIGHT CONTROL.
- PROVIDE ALL-IN-ONE METER/PANELBOARD COMBINATION. PANELBOARD SHALL BE NEMA 3R RATED AND HAVE A 100 AMP MAIN BREAKER AND BUS WITH A MINIMUM OF 4 SPACES AND 8 POLES. PROVIDE BRANCH CIRCUIT BREAKERS AS SHOWN ON DIAGRAM. METER SOCKET AND TOTAL ASSEMBLY SHALL COMPLY WITH ANY REQUIREMENTS OF THE LOCAL UTILITY.
- PROVIDE PRESSURE TRANSMITTER FOR TANK LEVEL MEASUREMENT. PRESSURE TRANSMITTER SHALL BE ROSEMOUNT MODEL 3051CG4A22A1AAB4M5 OR APPROVED ALTERNATE. RANGE 0-33 FEET @125 FEET ABOVE TOP OF FOUNDATION. SEE SEE ELEVATED TANK PLAN & SECTION.
- SCADA RTU SHALL BE A MISSION COMMUNICATIONS MyDro 850 RTU WITH NEMA 4X ENCLOSURE SUITABLE FOR OUTDOOR INSTALLATION. THE TANK LEVEL PRESSURE TRANSMITTER (4-20mA) SHALL BE CONNECTED TO THE ANALOG INPUT OF THE SCADA RTU AS PER THE MANUFACTURER'S INSTRUCTIONS.



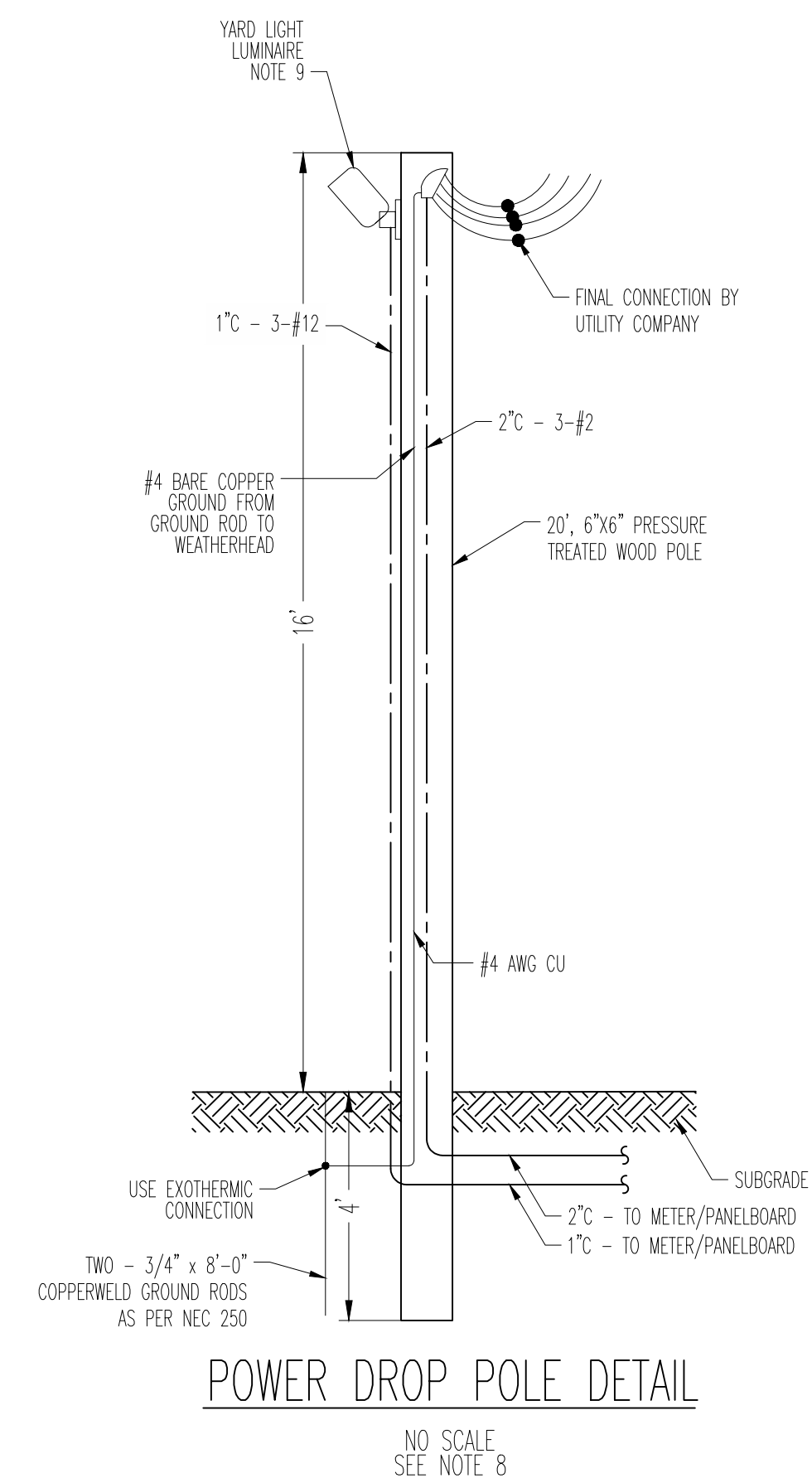
POWER DISTRIBUTION SINGLE LINE

SCALE: NONE

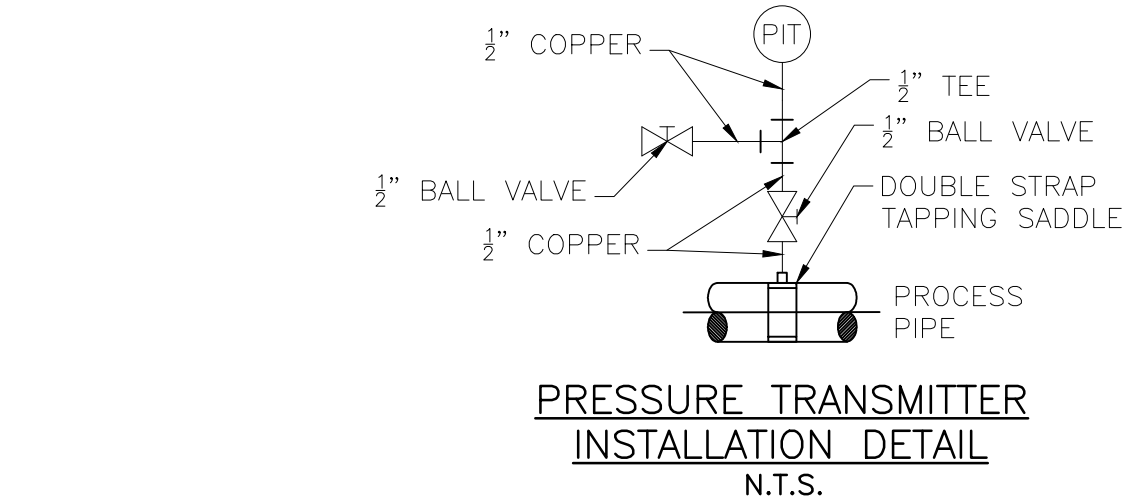


ELECTRICAL STAND DETAIL

NO SCALE SEE NOTE 9

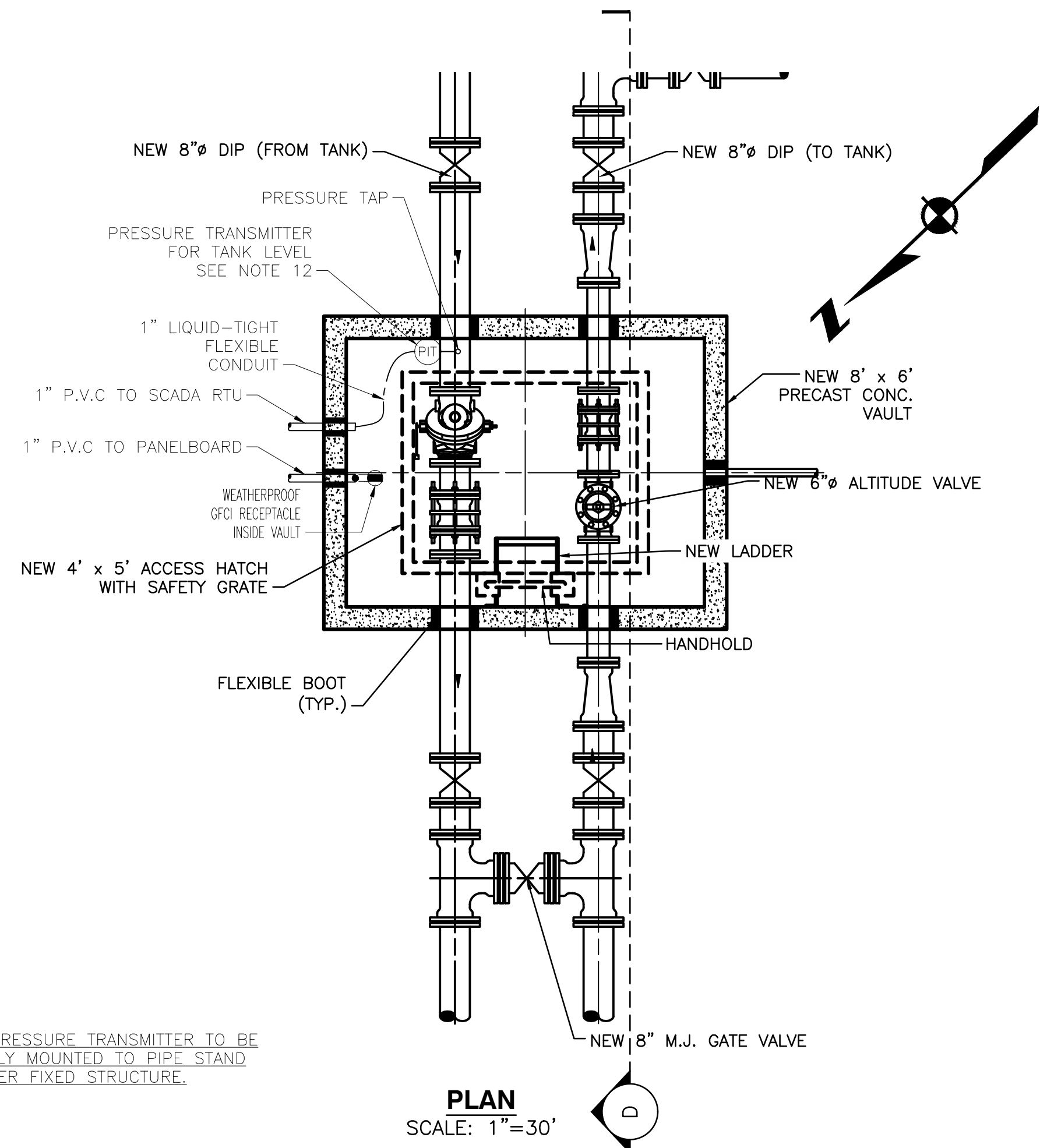


POWER DROP POLE DETAIL



PRESSURE TRANSMITTER INSTALLATION DETAIL

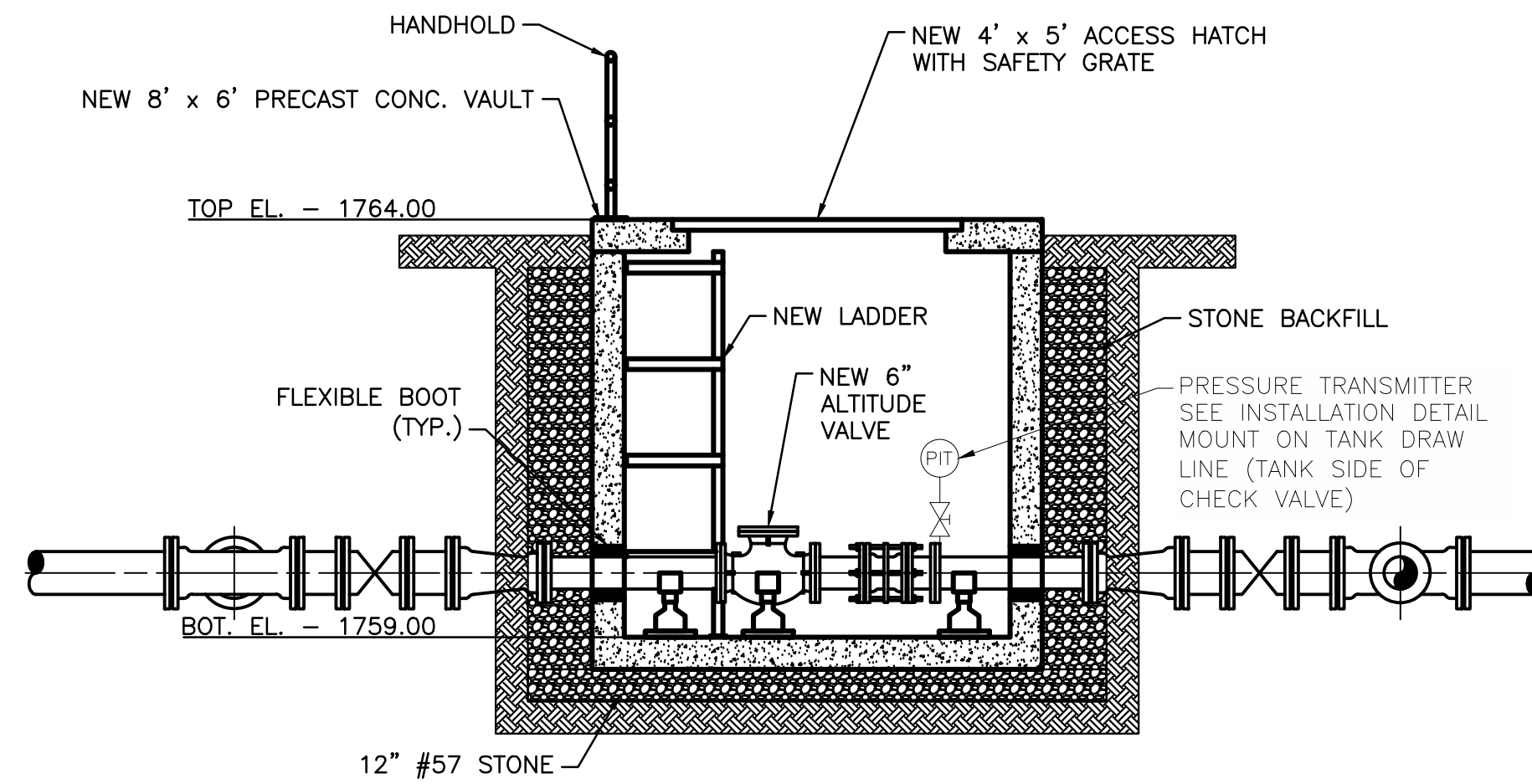
N.T.S.



NOTE: PRESSURE TRANSMITTER TO BE SECURELY MOUNTED TO PIPE STAND OR OTHER FIXED STRUCTURE.

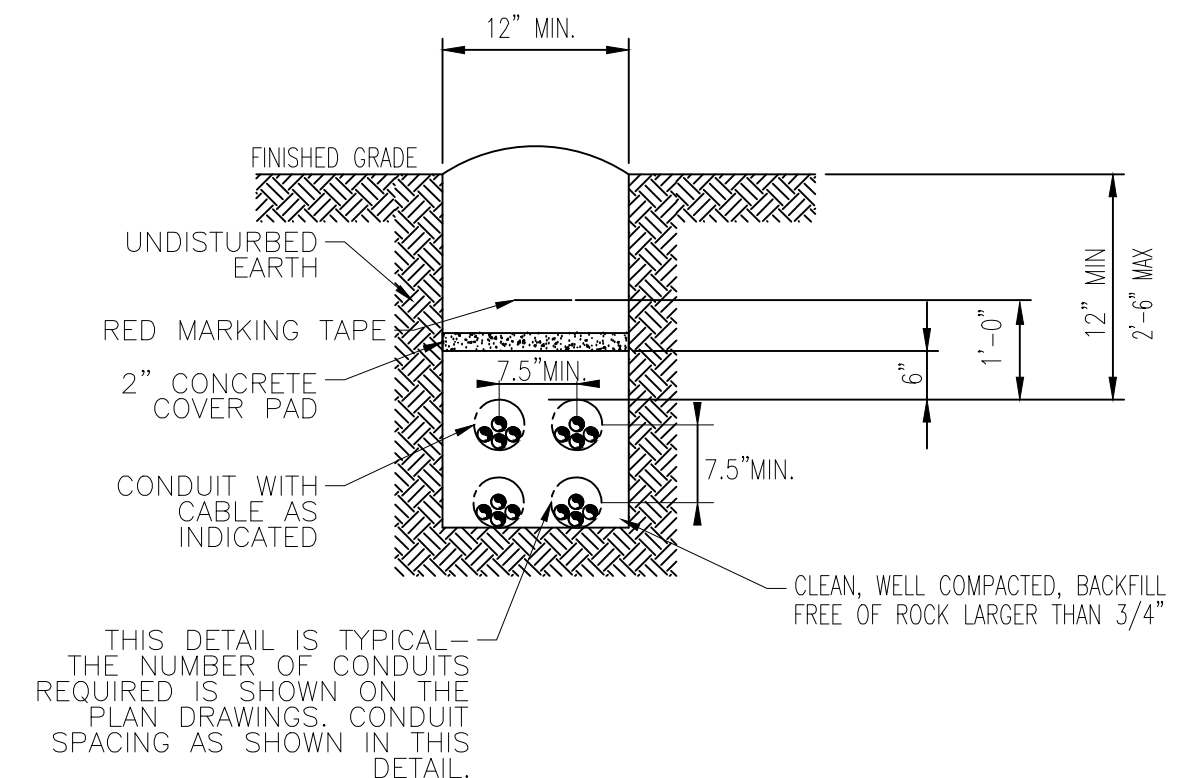
VALVE/TRANSMITTER VAULT DETAIL

SCALE: 1"=30'



NOTE: THE PHYSICAL LOCATION OF PENETRATIONS AND EQUIPMENT IN THE MANHOLE IS STRICTLY SCHEMATIC AND DOES NOT REPRESENT ACTUAL LOCATIONS. CONTRACTOR SHOULD VERIFY LOCATION BEFORE INSTALLING ANY MATERIALS IN THE MANHOLE.

SECTION SCALE: 1"=30'



ELECTRICAL TRENCH DETAIL

NO SCALE

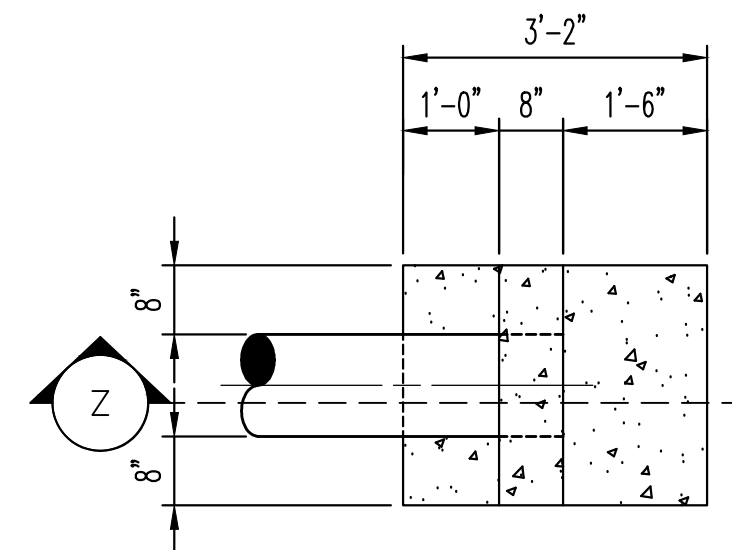


REV DATE REVISION DESCRIPTION

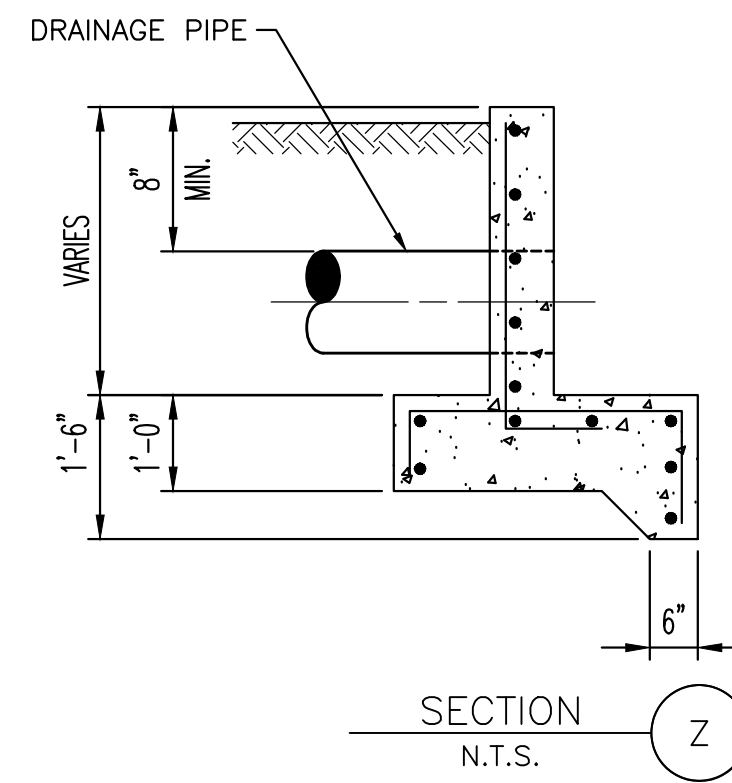
CARYVILLE-JACKSBORO UTILITIES COMMISSION
CAMPBELL COUNTY, TENNESSEE
ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



PROJECT NUMBER: CJU305
DATE: 03/2024 SCALE: AS SHOWN
DRAWN BY: GSH DESIGNED BY: GSH
SHEET TITLE: ELECTRICAL SINGLE LINE DIAGRAM, NOTES, AND DETAILS

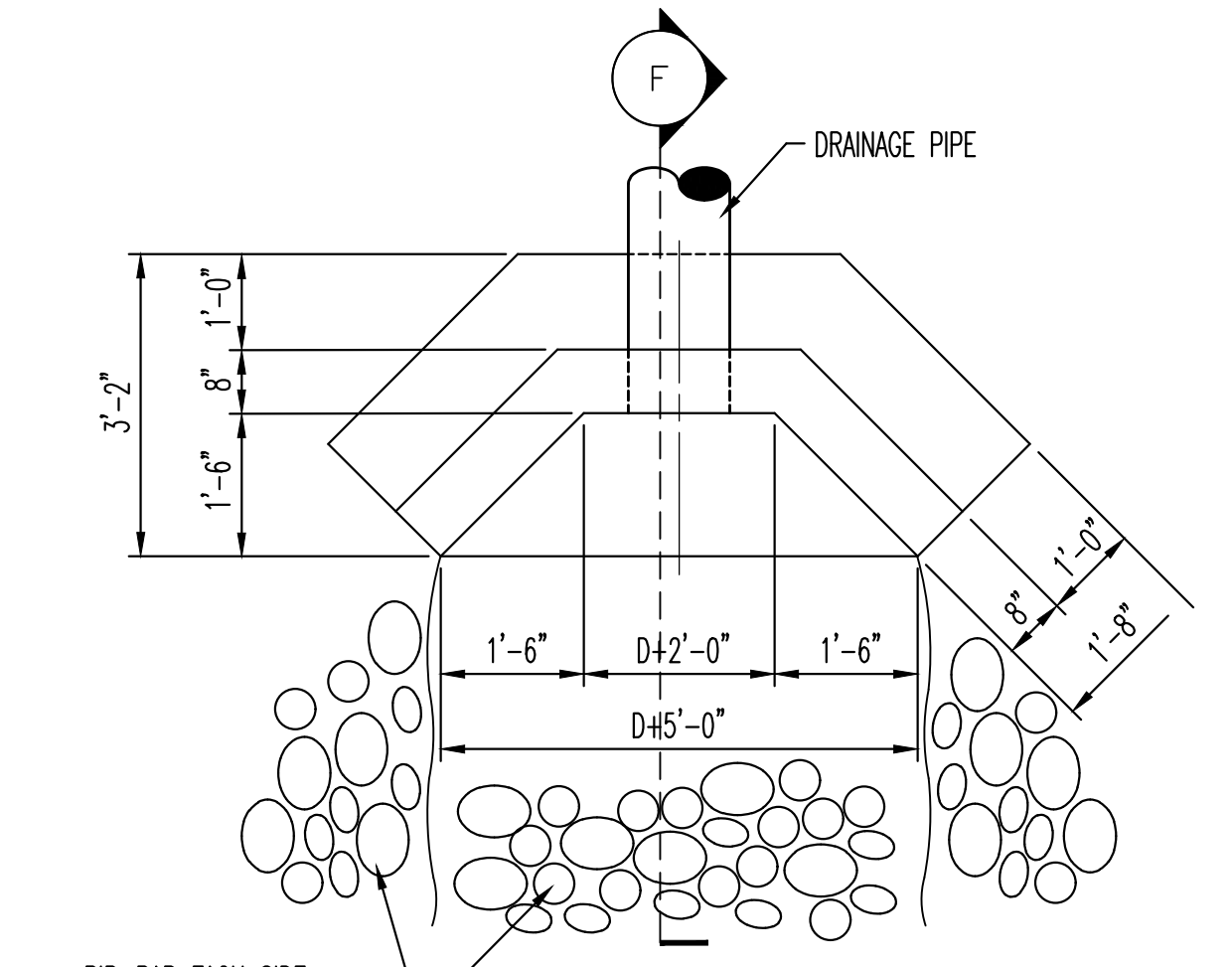


PLAN VIEW
N.T.S.

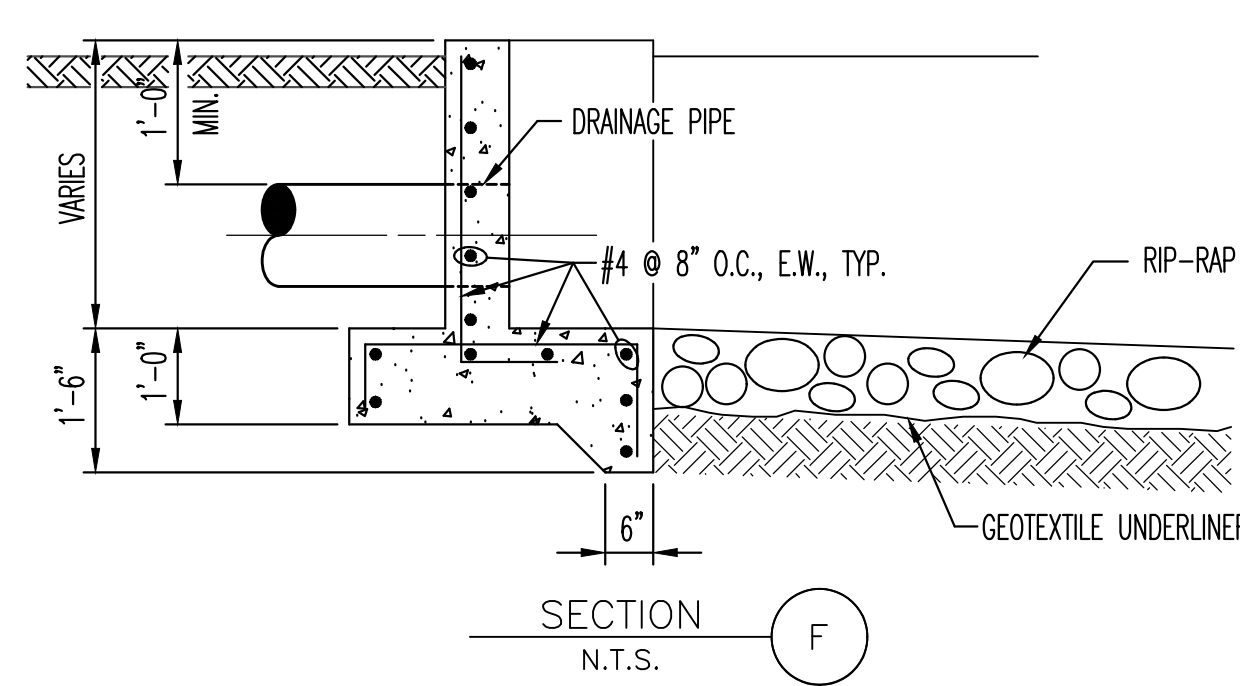


SECTION
N.T.S.

PRECAST ENDWALL DETAIL

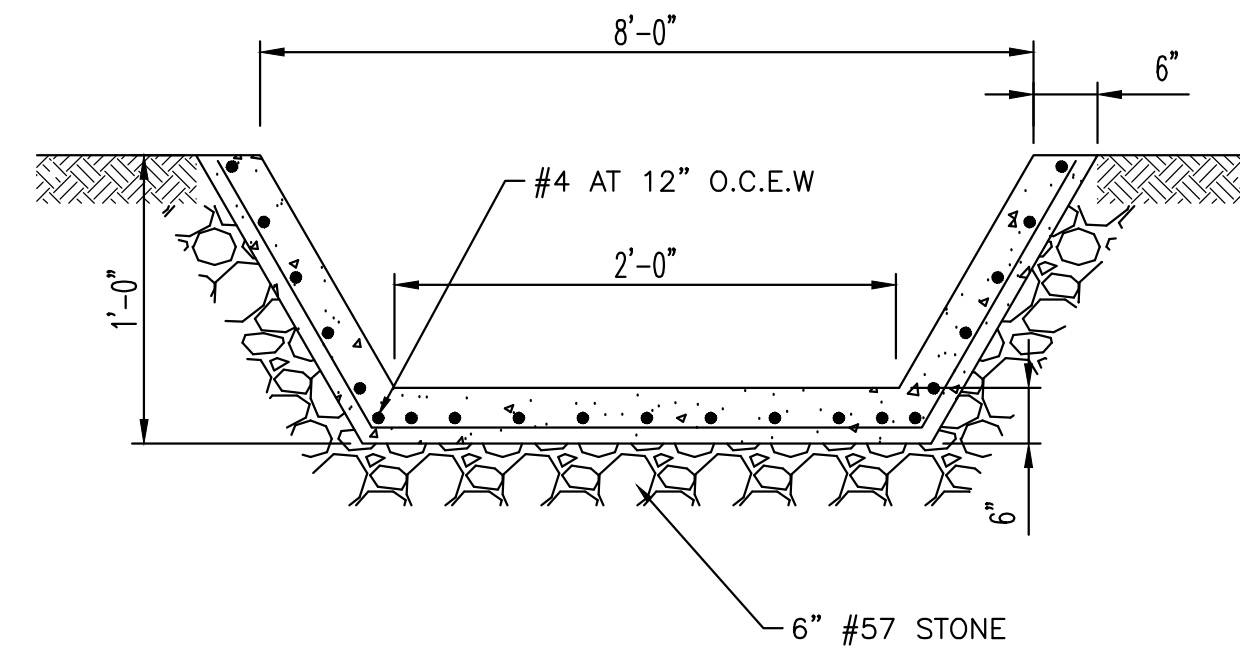


PLAN VIEW
N.T.S.

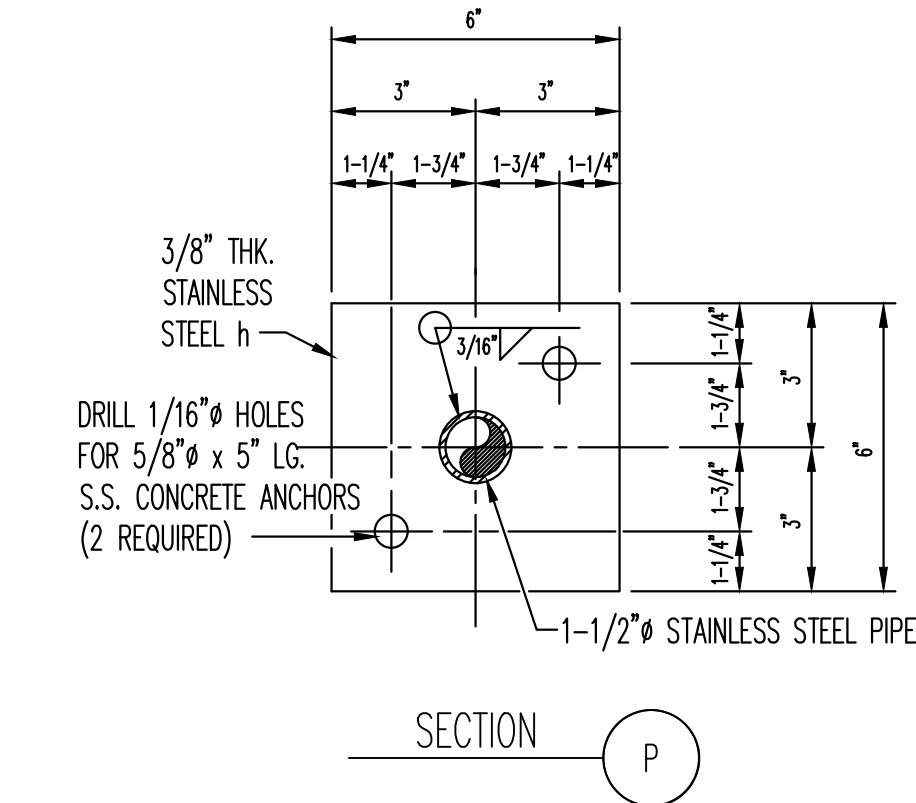
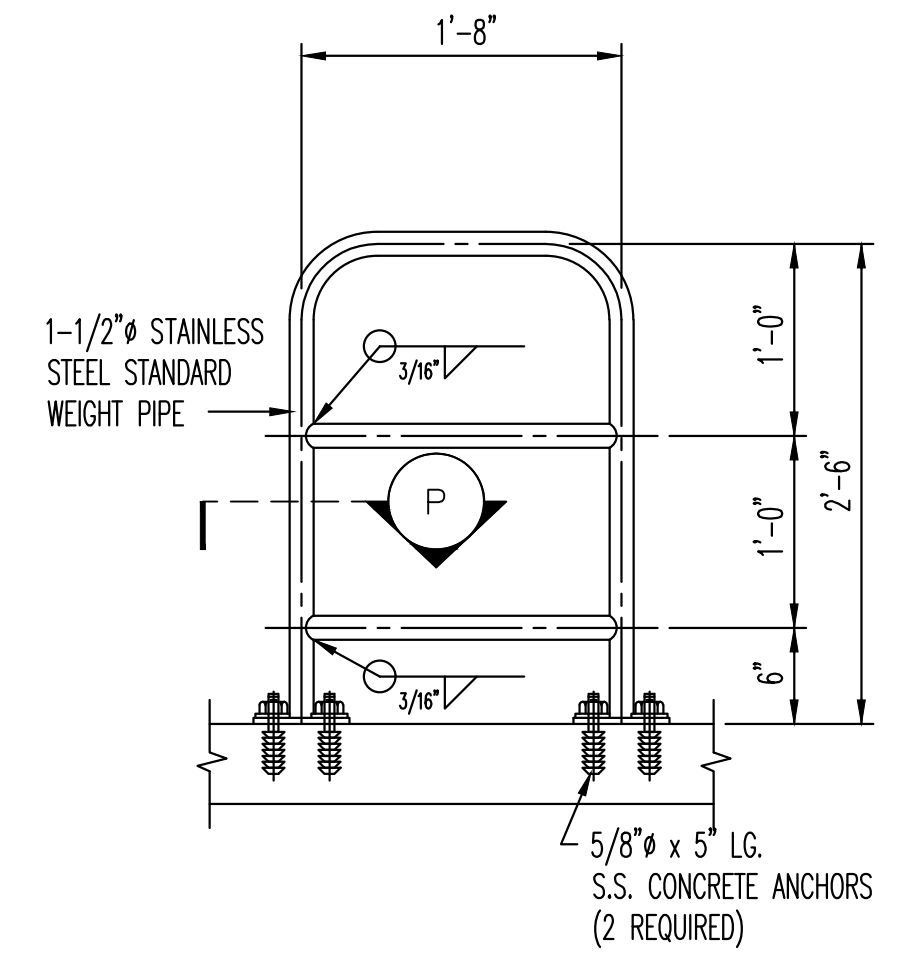


SECTION
N.T.S.

PRECAST HEADWALL DETAIL

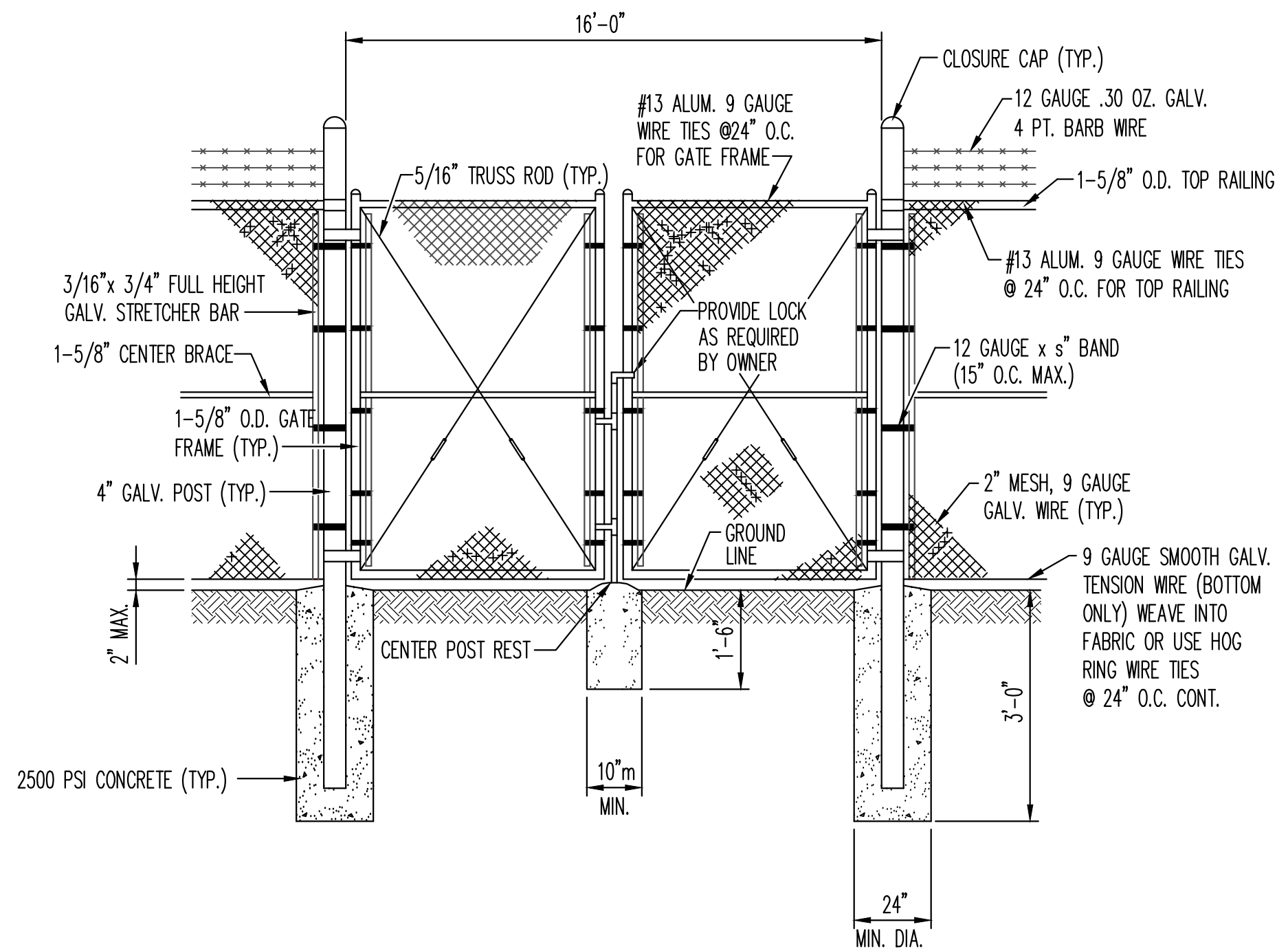


CONCRETE OVERFLOW CHANNEL DETAIL

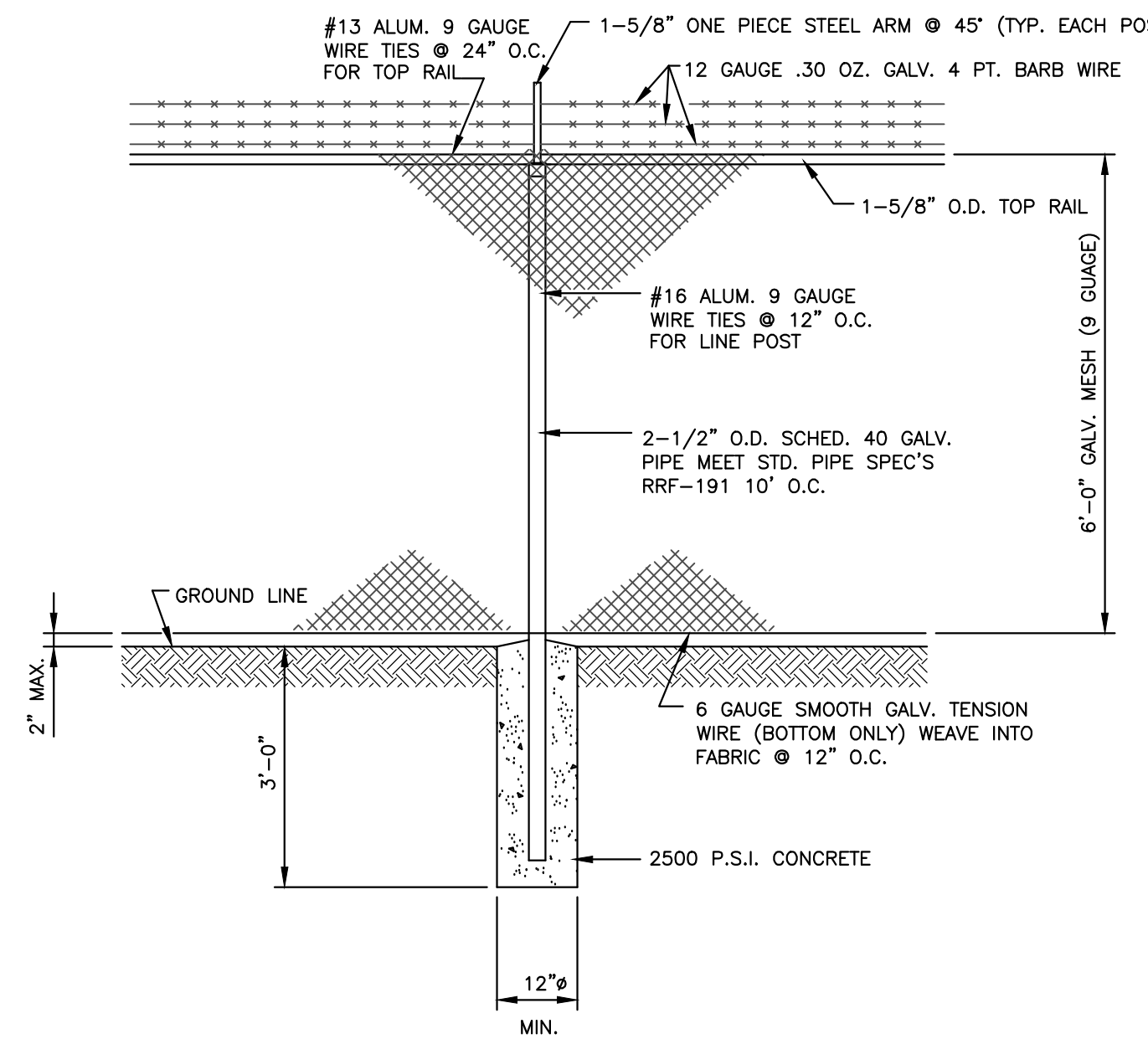


SECTION
P

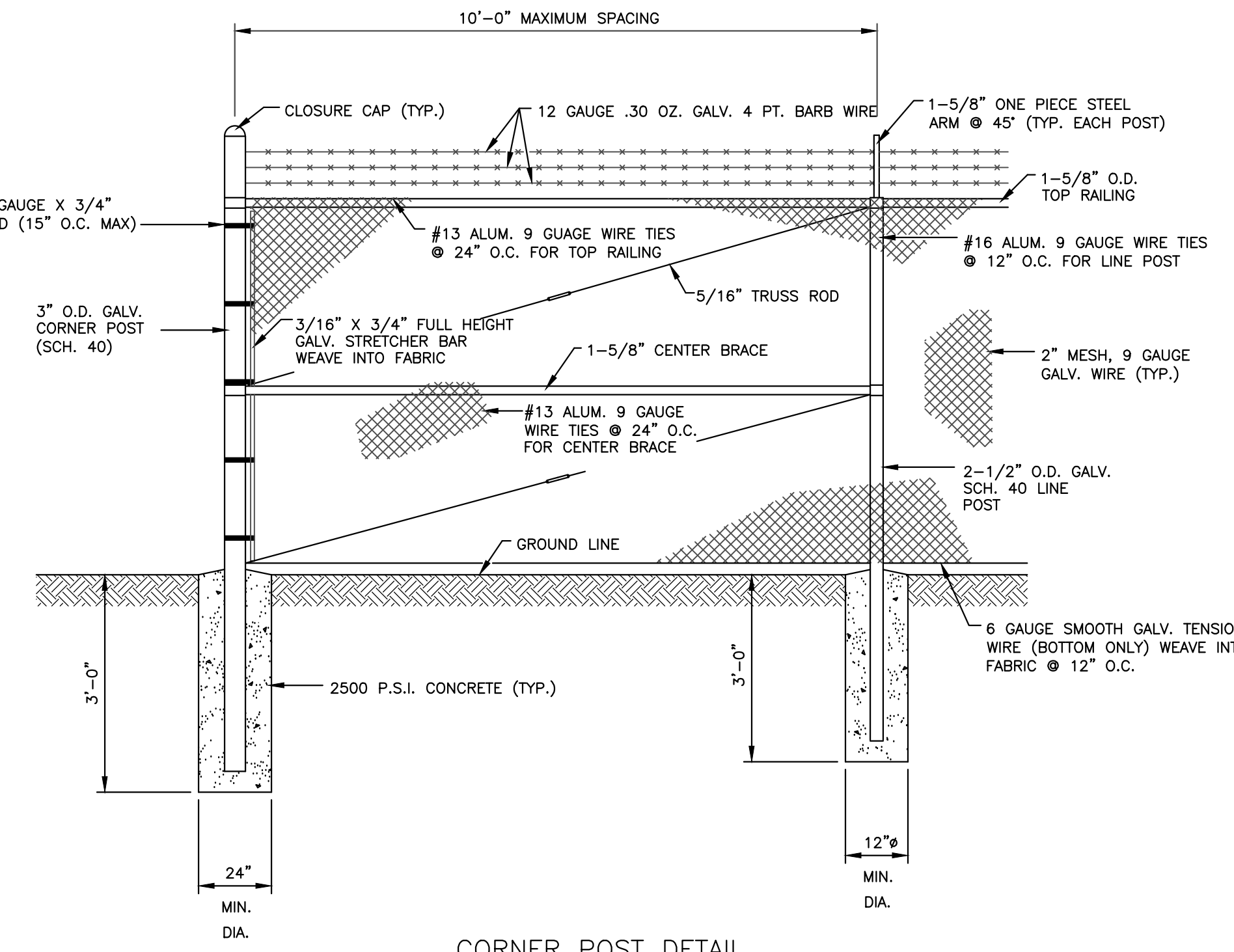
HANDHOLD RAIL DETAIL



DOUBLE GATE DETAIL

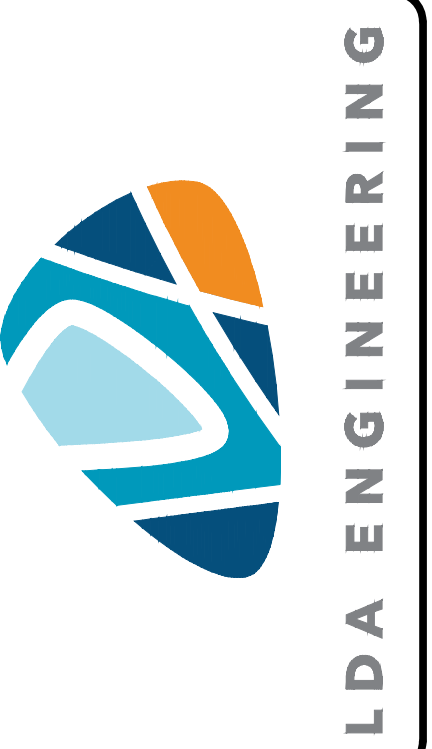


LINE POST DETAIL



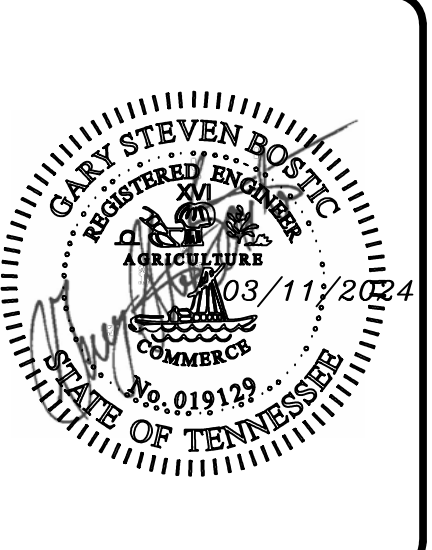
CORNER POST DETAIL

FENCE DETAILS



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
 CAMPBELL COUNTY, TENNESSEE
 ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



PROJECT NUMBER: CUJ305
 DATE: 03/2024 SCALE: AS SHOWN
 DRAWN BY: BAS DESIGNED BY: GSB

SHEET TITLE:
 TYPICAL DETAILS

P:\CADD\DESIGN\SHEET FILES\CAD\02\TYPICAL DETAILS\03/11/2024 12:01 PM BRADLEY SMITH

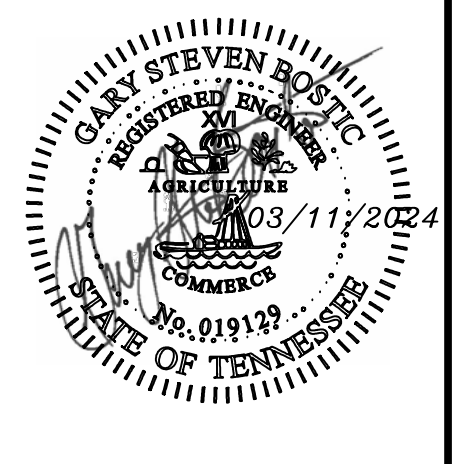
THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF LDA ENGINEERING AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF LDA ENGINEERING.



LDA ENGINEERING

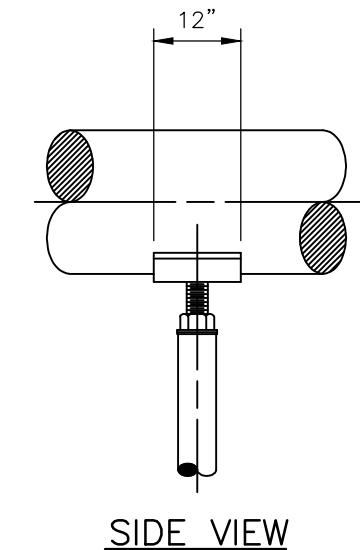
REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
 CAMPBELL COUNTY, TENNESSEE
 ERSHELL COLLINS INDUSTRIAL PARK WATER TANK

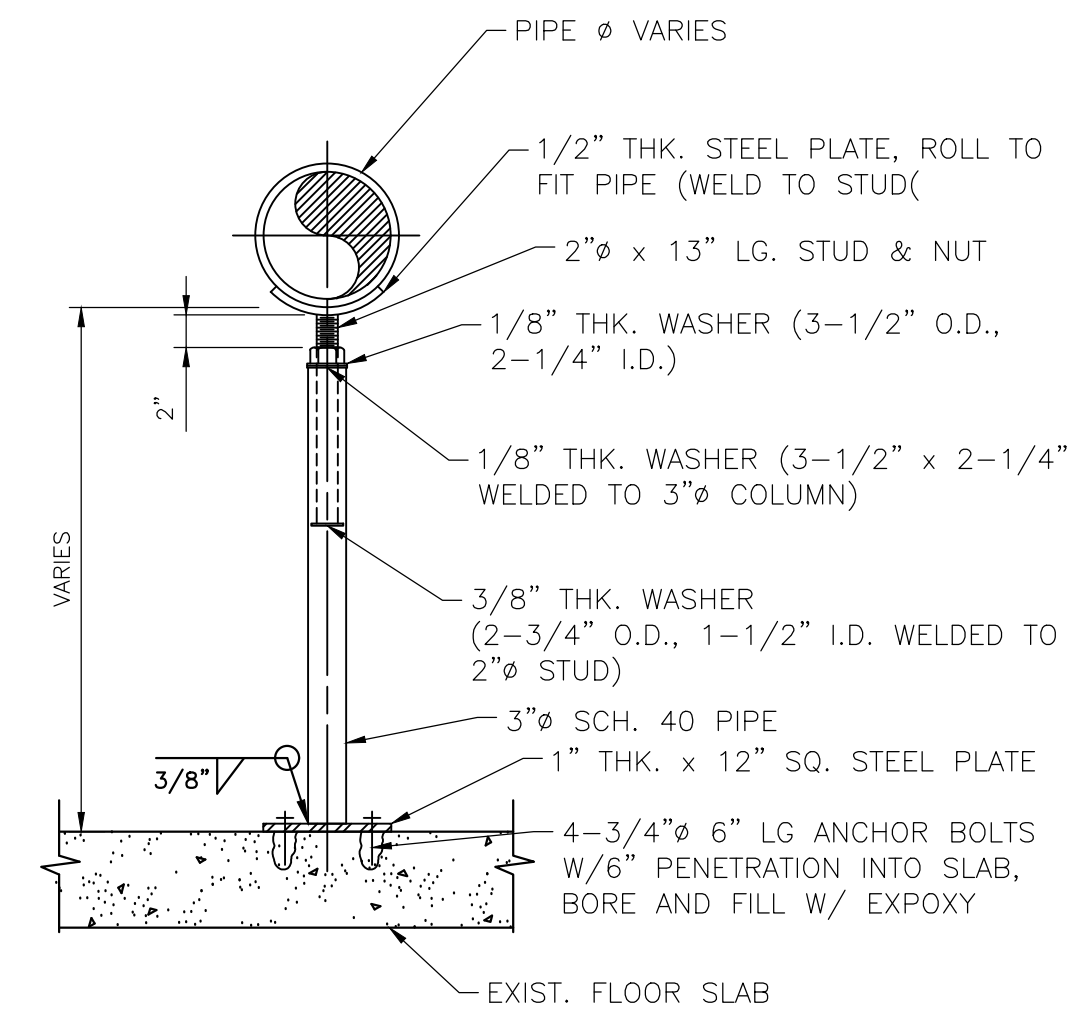


PROJECT NUMBER: CUJ305
 DATE: 03/2024 SCALE: AS SHOWN
 DRAWN BY: BAS DESIGNED BY: GSB

SHEET TITLE:
 TYPICAL DETAILS

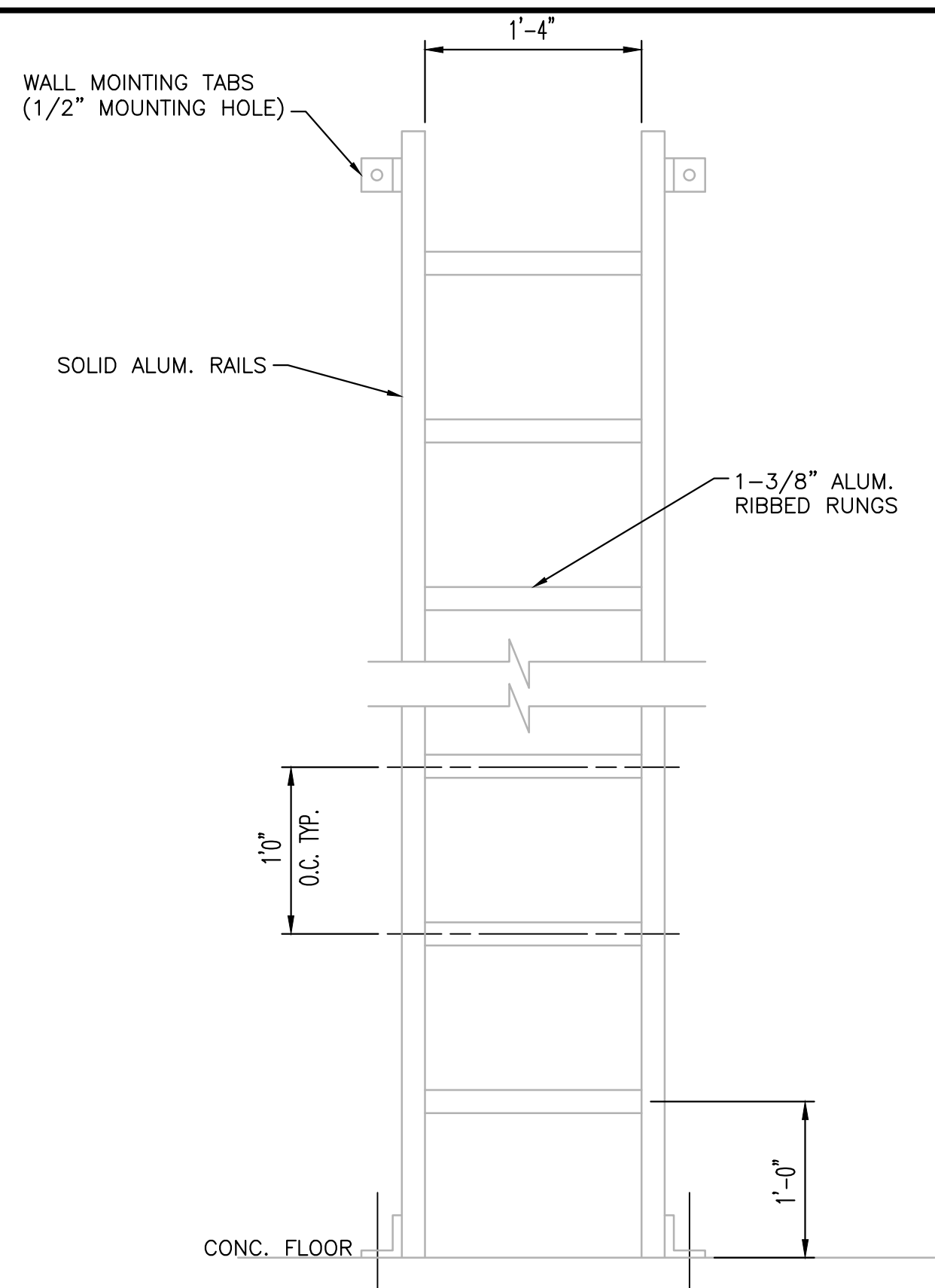


SIDE VIEW



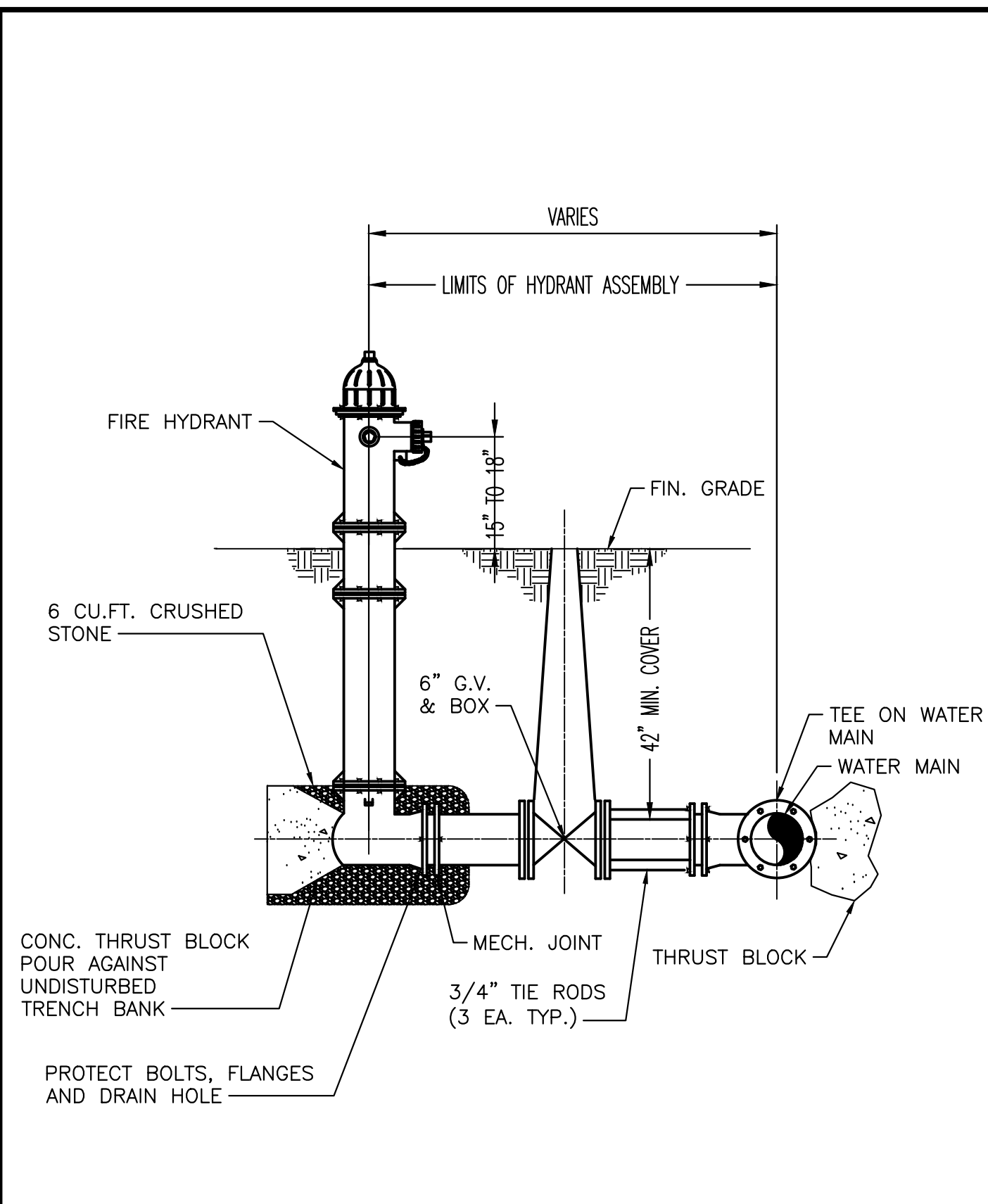
SECTION

STEEL PIPE SUPPORT DETAIL

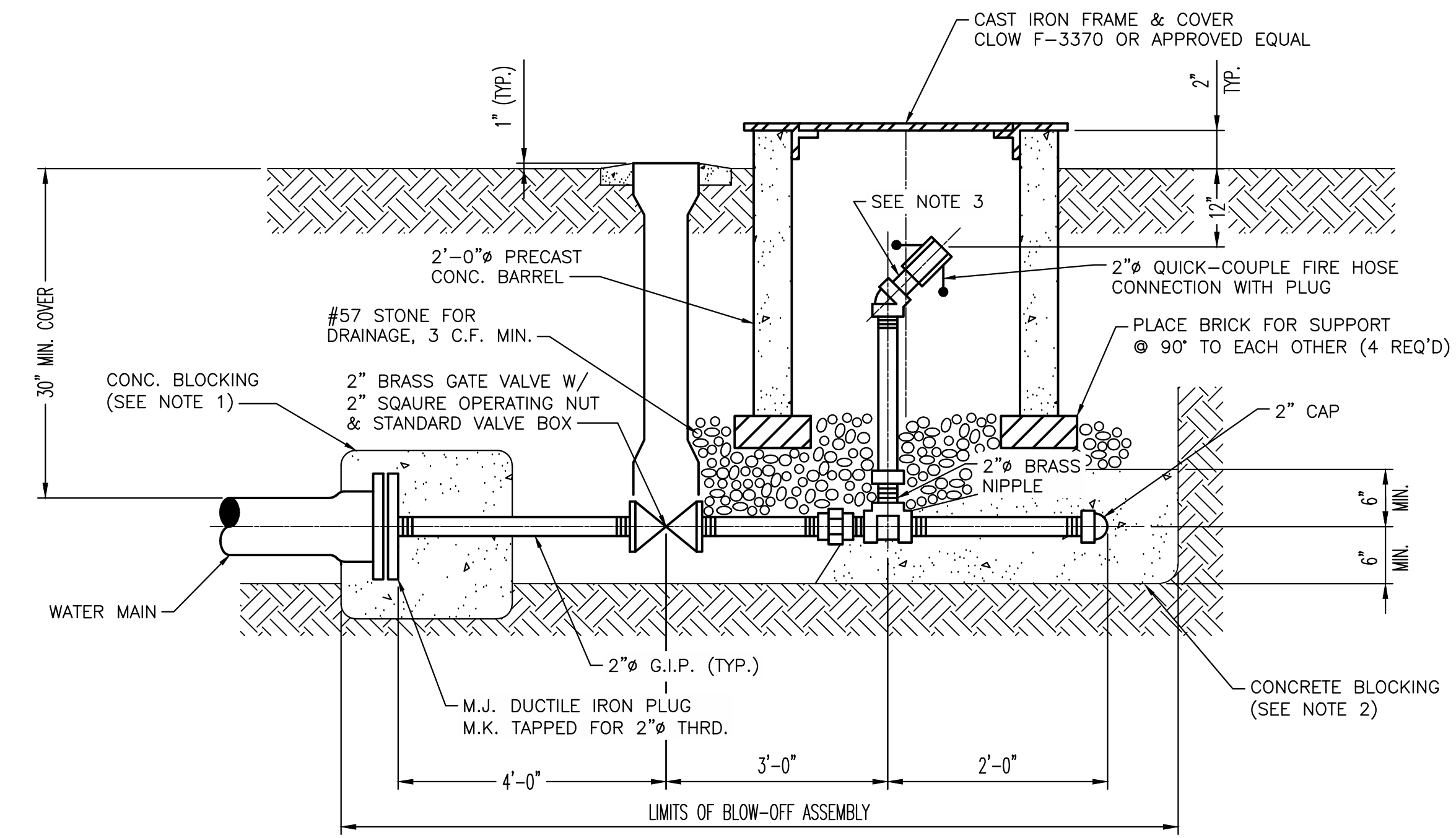


LADDER DETAIL

- NOTES:
- LADDER TO BE HALLIDAY PRODUCTS SERIES L1D, OR APPROVED EQUAL. WALL MOUNTING TABS TO BE MOUNTED TO VAULT TOP.
 - LADDER TO BE DESIGNED TO PROVIDE STABILITY WITH 2 POINT MOUNTING AS SHOWN. FOR VALVE VAULT, PROVIDE INTERMEDIATE SUPPORTS AS REQUIRED IN GINDER WELL.



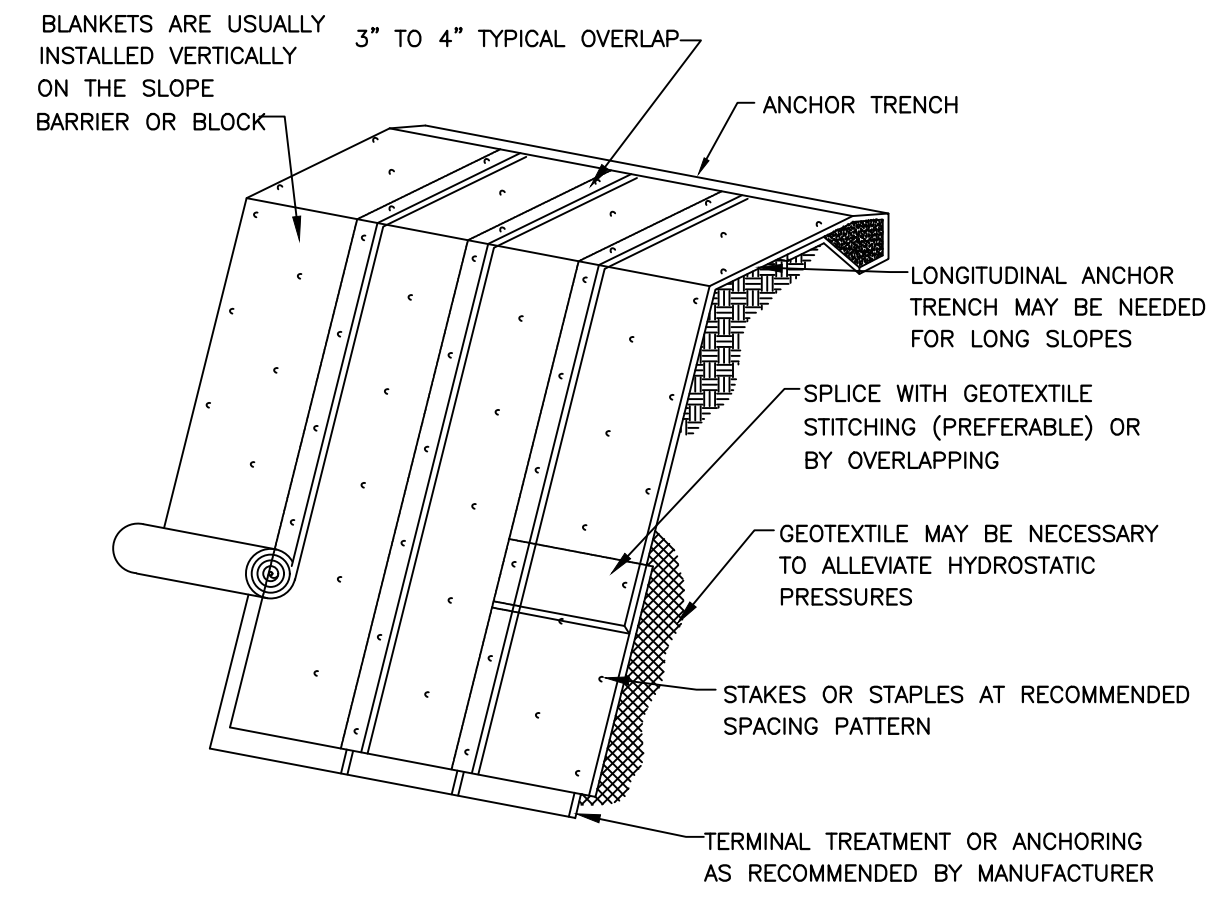
TYPICAL HYDRANT ASSEMBLY



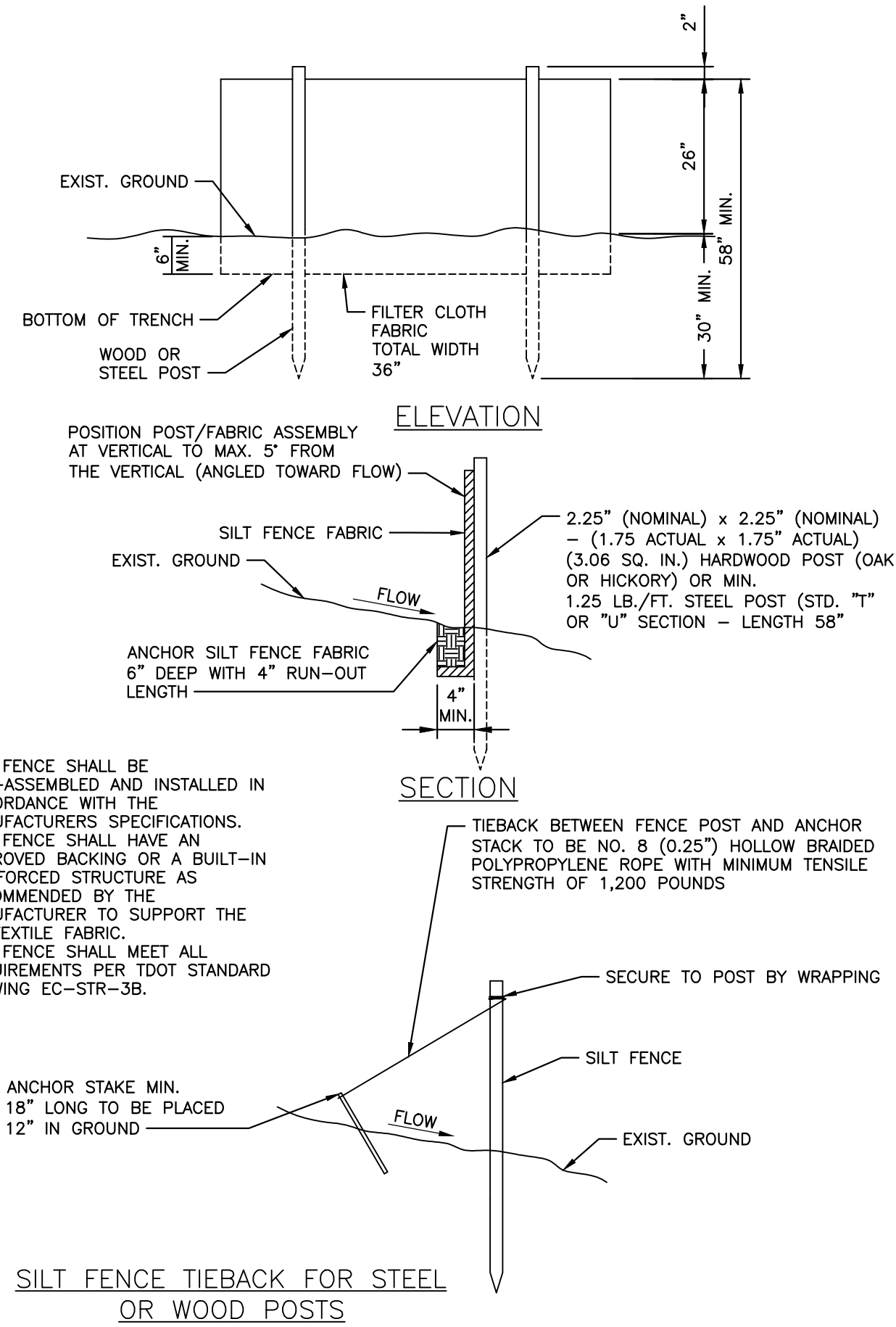
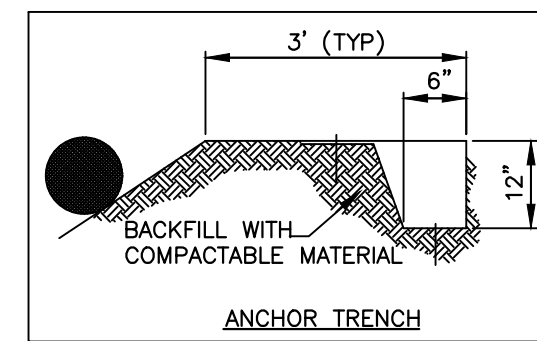
TYPICAL BLOW OFF VALVE DETAIL

- NOTES:
- CONCRETE BLOCKING AT WATER MAIN PLUG FOR BLOW-OFF PIPE CONNECTION SHALL BE A MINIMUM OF 1'-6" THICK AND BE CUT A MINIMUM OF 1'-0" INTO UNDISTURBED SOIL ON EACH SIDE AND BELOW THE PIPE TRENCH.
 - CONCRETE BLOCKING BELOW "TEE" AND BEHIND PIPE CAP SHALL BE THE WIDTH OF THE TRENCH OR 1'-0" WHICHEVER IS GREATER, AND SHALL BEAR AGAINST UNDISTURBED SOIL.
 - ALL THREADED PIPE SHALL BE JOINTED USING HEAVY DUTY TEFLON JOINT TAPE. ALL EXPOSED THREADS AND ALL GALVANIZED IRON PIPE SHALL BE CLEANED OF ALL GREASE, OIL, DEBRIS & OTHER SOILING AND SHALL RECEIVE A HEAVY COAT OF COAL-TAR EPOXY COATING PRIOR TO BACKFILLING.

P:\CADD\DESIGN\SHEET FILES\CAD\05_01_TYPICAL DETAILS.dwg, 3/11/2024 12:01 PM, BRADLEY SMITH

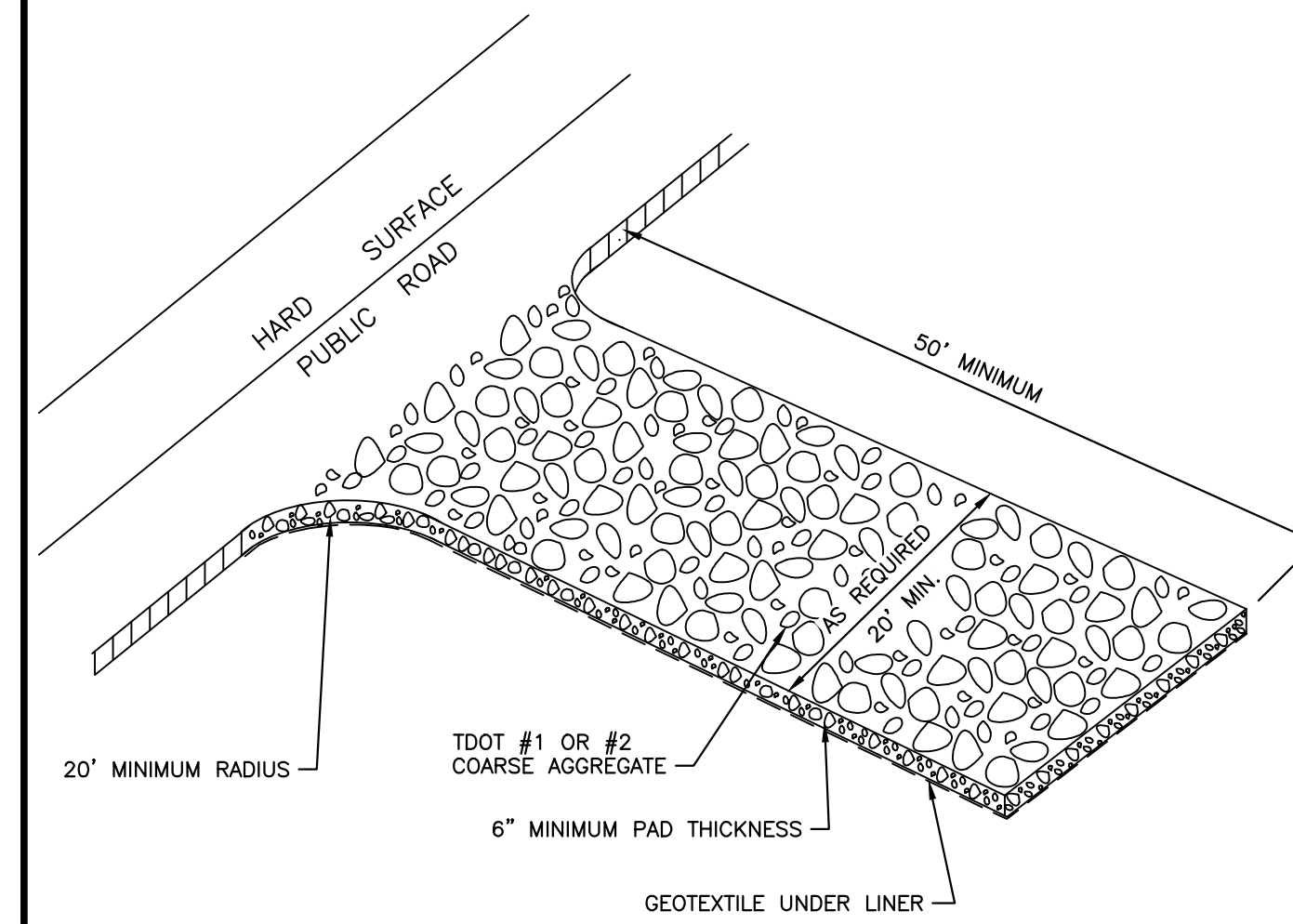
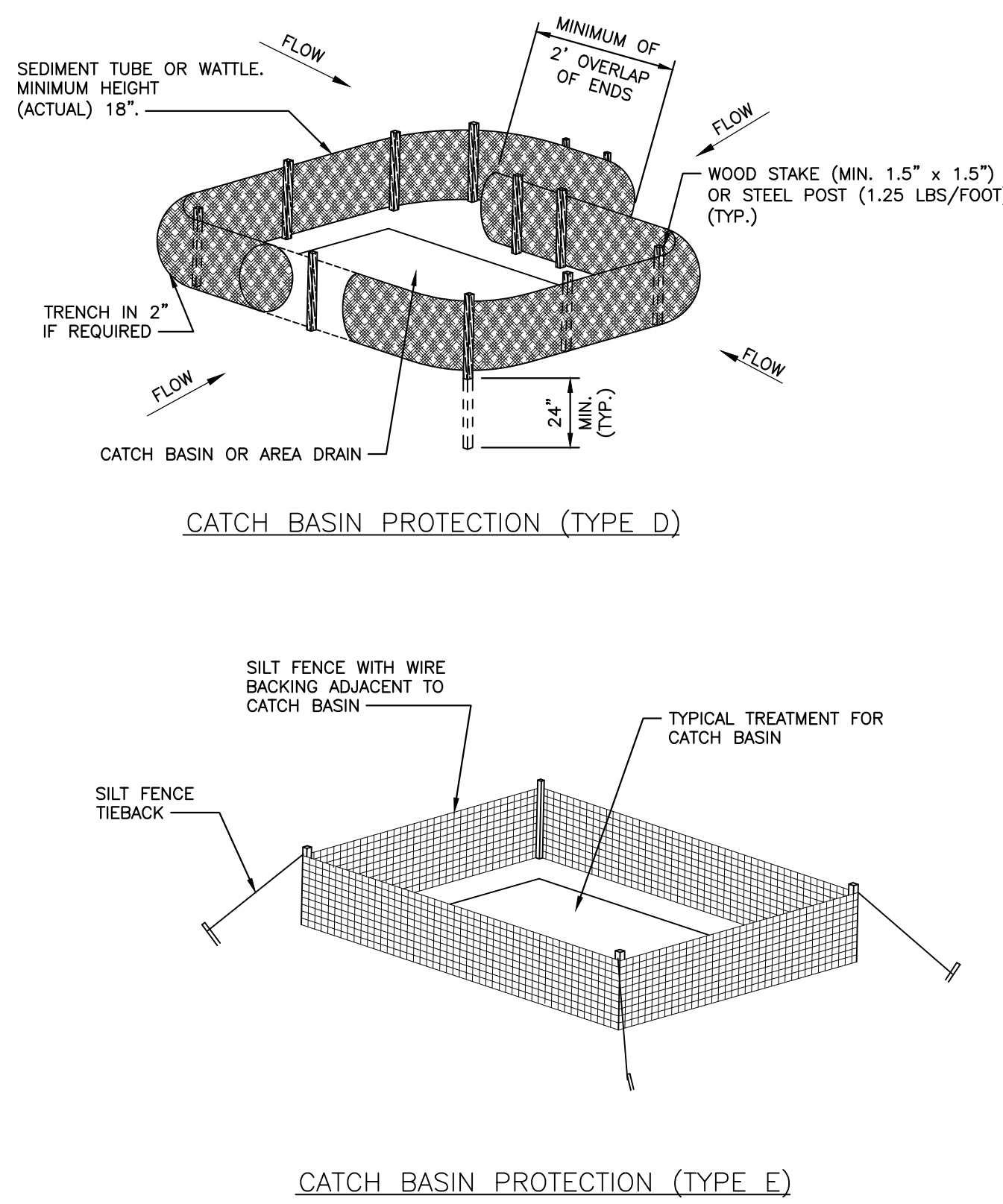


- NOTES:
1. STITCHING BLANKET SEAMS IS PREFERABLE TO OVERLAPPING BLANKET SEAMS.
 2. STAKING OR STAPLING LAYOUT SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SLOPE AND GRADE.



NOTES:

1. SILT FENCE SHALL BE PRE-ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
2. SILT FENCE SHALL HAVE AN APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE GEOTEXTILE FABRIC.
3. SILT FENCE SHALL MEET ALL REQUIREMENTS PER TDOT STANDARD DRAWING EC-STR-3B.

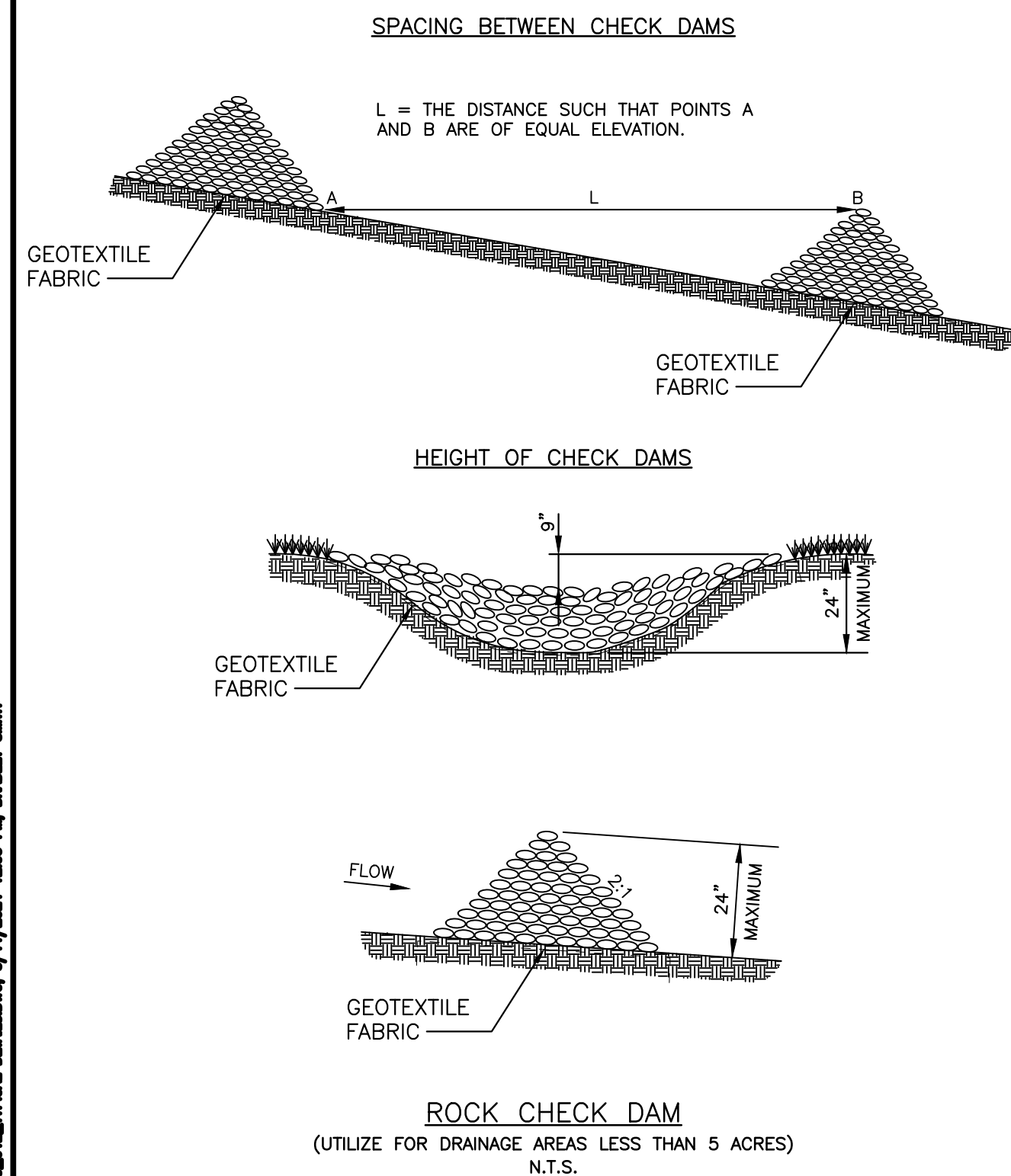


EROSION CONTROL BLANKET/MATting - MA

SILT FENCE DETAIL

STORM WATER INLET PROTECTION

GRAVEL CONSTRUCTION ENTRANCE



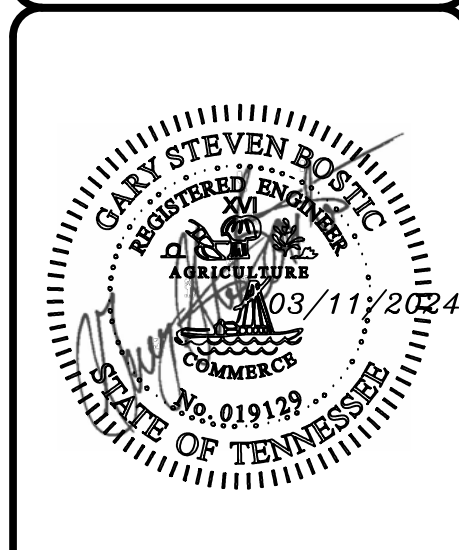
- NOTE:
1. UTILIZE CLEAN STONE: 2-15 INCHES (T.D.O.T. A-1).
 2. MINIMUM OF 2 REQUIRED PER INSTALLATION.
 3. CLEAN SILT AND DEBRIS FROM UPSTREAM SIDE OF CHECK DAM REGULARLY.

CHECK DAM DETAIL



REV	DATE	REVISION DESCRIPTION

CARYVILLE-JACKSBORO UTILITIES COMMISSION
 CAMPBELL COUNTY, TENNESSEE
 ERSHELL COLLINS INDUSTRIAL PARK WATER TANK



PROJECT NUMBER:	CJU305
DATE:	03/2024
SCALE:	AS SHOWN
DRAWN BY:	BAS
DESIGNED BY:	GSB
SHEET TITLE:	TYPICAL DETAILS

P:\CADD\DESIGN\2024\02_TYPICAL DETAILS\DWG_24112024_1235.PLA BRADLEY SMITH