

PENETRATION FIRESTOP FOR 4" MAX. DIA. STEEL/EMT CONDUIT THROUGH A CONCRETE WALL OR FLOOR

SYSTEM DETAILS

1. SYSTEM JUSTIFICATION: UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. C-AJ-1044.
2. ASSEMBLY: MINIMUM THICKNESS OF SOLID CONCRETE WALL IS 5-1/2" OR MAY BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
3. RATINGS: F - 4 HR., T - 0 HR., W - CLASS I
4. PENETRATING ITEM(S): NOMINAL 4" DIAMETER (OR SMALLER) STEEL/EMT. CONDUIT. CONDUIT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL OR FLOOR ASSEMBLY

APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE IS 1/4". MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL.
4. MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN. (25 MM) THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

FIRE RATED CONDUIT PENETRATION DETAIL
NTS

GENERAL DEMOLITION NOTES

1. EXIST'G. EQUIPMENT, DEVICES, DISCS., RECEPTACLES, ETC. (NOT SPECIFICALLY REFERENCED AS "TO BE REMOVED") SHALL REMAIN AS IS.
2. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL EXISTING AND PROPOSED EQUIPMENT IN THE FIELD PRIOR TO INSTALLATION OF CONDUIT.
3. RE-ESTABLISH SERVICE TO ALL J-BOXES, RECEPS. OUTLETS, ETC, THAT MAY BE INTERRUPTED BECAUSE OF THE WORK.
4. PROVIDE ALL MATERIALS REQUIRED TO REROUTE, RELOCATED, REMOVE OR REINSTALL ALL ITEMS DESCRIBED.
5. RETAIN ALL MATERIALS BEING REMOVED AND NOTIFY OWNER, FOR HIS DIRECTION, AS TO WHAT MATERIALS TO BE SAVED.
6. EXISTING EQUIP. NOT TO BE REMOVED, THAT IS DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PROCESS, SHALL BE REPLACED AT NO ADD'L. COST TO THE OWNER.
7. THE CONTRACTOR SHALL WORK AT THE CONVENIENCE OF THE HCSO SO AS NOT TO DISRUPT DAILY ACTIVITIES AND INCONVENIENCE PERSONNEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE WORK PROCEDURES THAT ARE NOISY, CREATE ODORIFEROUS FUMES, OR PRODUCE A CONDITION THAT WILL BE DISRUPTIVE, AT A TIME PRIOR SCHEDULED WITH THE HCSO. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE JAIL'S DAILY SCHEDULE AND USE THAT AS A GUIDELINE FOR PLANNING DISRUPTIVE WORK PROCEDURES. LIFE SAFETY SYSTEMS SHALL REMAIN TOTALLY OPERATIONAL AT ALL TIMES.

PROJECT PHASING NOTES

1. THE CONSTRUCTION PHASING OF THIS PROJECT IS OF THE UTMOST IMPORTANCE. ALL SERVICE INTERRUPTONS ESSENTIAL TO THE WORK SHALL BE SCHEDULED WITH THE HCSO (7) DAYS IN ADVANCE. COORDINATE ALL WORK TO ALLOW THE COMPLETION OF THE TASK(S) WITH THE MINIMUM INTERFERENCE TO HCSO OPERATIONS.
2. THE CONTRACTOR SHALL PROVIDE AND UPDATE AS NEEDED A PHASING SCHEDULE FOR THIS PROJECT. THIS SCHEDULE SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND THE HCSO.

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEC 2014, THE CITY OF TAMPA ELECTRICAL CODE AND ANY OTHER APPLICABLE LOCAL ORDINANCES.
2. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY TO DELIVER A COMPLETE PROJECT AS REASONABLY IMPLIED IN THESE DOCUMENTS.
3. ALL WORK SHALL BE SCHEDULED WITH THE HCSO TO MINIMIZE DISRUPTION OF THE ONGOING JAIL OPERATIONS.
4. PROPOSED CONDUIT & CABLE ROUTINGS SHALL BE COORDINATED WITH EXISTING CONDITIONS PRIOR TO THE START OF INSTALLATION.
5. ELECTRICAL PANELS SHALL NOT BE USED AS RACEWAYS.
6. CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED USING O.Z./GEDNEY TYPE FIRE SEALS OR "APPROVED" FIRE SAFING COMPOUND.
7. REFER TO MANUFACTURER DWG FOR EXACT LOCATION OF CONDUIT ENTRIES.
8. COORD. ROUTING WITH EXIST'G. U/G PIPING, ETC. PRIOR TO THEIR INSTALLATION.
9. MINIMUM SIZE POWER CONDUCTOR SHALL BE #12 AWG.. ALL CONDUCTORS SHALL BE "STRANDED" TYPE.
10. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL EQUIPMENT IN THE FIELD PRIOR TO INSTALLATION OF CONDUITS.
11. ALL ELECTRICAL EQUIPMENT IS SHOWN DIAGRAMMATICALLY, EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD TO AVOID INTERFERENCES.
12. PROVIDE GROUND CONDUCTORS W/I ALL RACEWAYS.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD SO HE WILL HAVE OBTAINED THE SCOPE OF ELECTRICAL WORK INVOLVED.
14. THE CONTINUITY OF THE EQUIPMENT GROUNDS, NEUTRALS AND HOT LEGS SHALL NOT BE INTERRUPTED BY THE WORK.
15. ALL EXPOSED EXTERIOR CONDUITS SHALL BE HEAVY WALL, RIGID GALVANIZED STEEL TYPE.
16. ALL EXPOSED CONDUIT SHALL BE ROUTED PARALLEL & PERPENDICULAR TO STRUCTURAL ELEMENTS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGRAVED "PLASTIC LAMINATE" NAME PLATES ON ALL PROPOSED PANELS & BRKRS. NAME PLATES SHALL BE WHITE WITH BLACK CORE, 2"x4" AND 1/4" HIGH BLOCK LETTERING, INDICATING THE DESCRIPTION, VOLTAGE AND SOURCE.
18. LOCKOUT/TAGOUT PROCEDURES SHALL BE PROVIDED IN CONFORMANCE WITH THE LATEST APPLICABLE EDITION OF OSHA STANDARD 1-7.3-29CFR 1910.47 AND NFPA 70E.
19. WORKPLACE SAFETY REGULATIONS SHALL BE INSTITUTED TO HEIGHTEN THE AWARENESS OF HAZARDS ASSOCIATED WITH ELECTRICAL ARCS. WORKERS SHALL BE PROPERLY PROTECTED BEFORE ENTERING PROXIMITY TO EXPOSED ENERGIZED CONDUCTORS. THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF NFPA 70E-STANDARD FOR ELECTRICAL SAFETY REQUIREMENTS FOR EMPLOYEE WORKPLACES.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
⊙	JUNCTION BOX - SIZED PER N.E.C.
—	CONDUIT CONCEALED ABOVE CLG. OR IN WALL SPACE
- - -	CONDUIT IN SLAB OR UNDERGROUND
----	CONDUIT EXPOSED
↙	120V., 1 PHASE, CIRCUIT HOMERUN FROM 1 POLE BRKR.
###	SLASH MARKS DENOTE NUMBER OF WIRES; LONG-NEUTRAL; X-GROUND. NO SLASHES IDENTIFIES 3-#12, 1/2"C.
■	BRANCH CIRCUIT PANELBOARD, TOP Ⓢ 6'-0" A.F.F.
○	CONDUIT ROUTED UP
●	CONDUIT ROUTED DOWN
A.F.F.	ABOVE FINISHED FLOOR
A.I.C.	AMPS INTERRUPTING CAPACITY
AL.	ALUMINUM
A.W.G.	AMERICAN WIRE GAUGE
C.	CONDUIT
CU.	COPPER
E.M.T.	ELECTRICAL METALLIC TUBING
EX.	EXISTING
F.L.A.	FULL LOAD AMPS
GRND.	GROUND
J.B.	JUNCTION BOX
U/G	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
W/	WITH
W/I	WITH-IN
W.P.	WEATHERPROOF
SPD	SURGE PROTECTION DEVICE
BFG	BELOW FINISHED GROUND
RGSC	RIGID GALVANIZED STEEL CONDUIT

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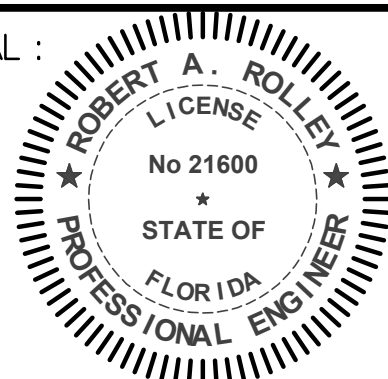


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REGISTRY 3962

Mechanical
Plumbing Fire Protection

SEAL :



PROJECT :
**ORIENT ROAD JAIL
DIESEL GENERATOR TANK REPLACEMENT**

LOCATION :
**1201 ORIENT ROAD,
Tampa, FL 33619**

REVISIONS

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delta	date	revision

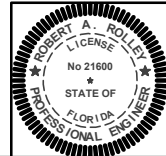
SHEET TITLE :

**ELECTRICAL
GENERAL NOTES &
DETAILS**

DRAWN BY: RAR
DATE: 09/30/2020
COMM. NO. 20029

SHEET NO. :

E-001

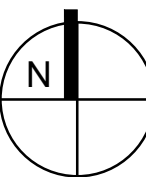
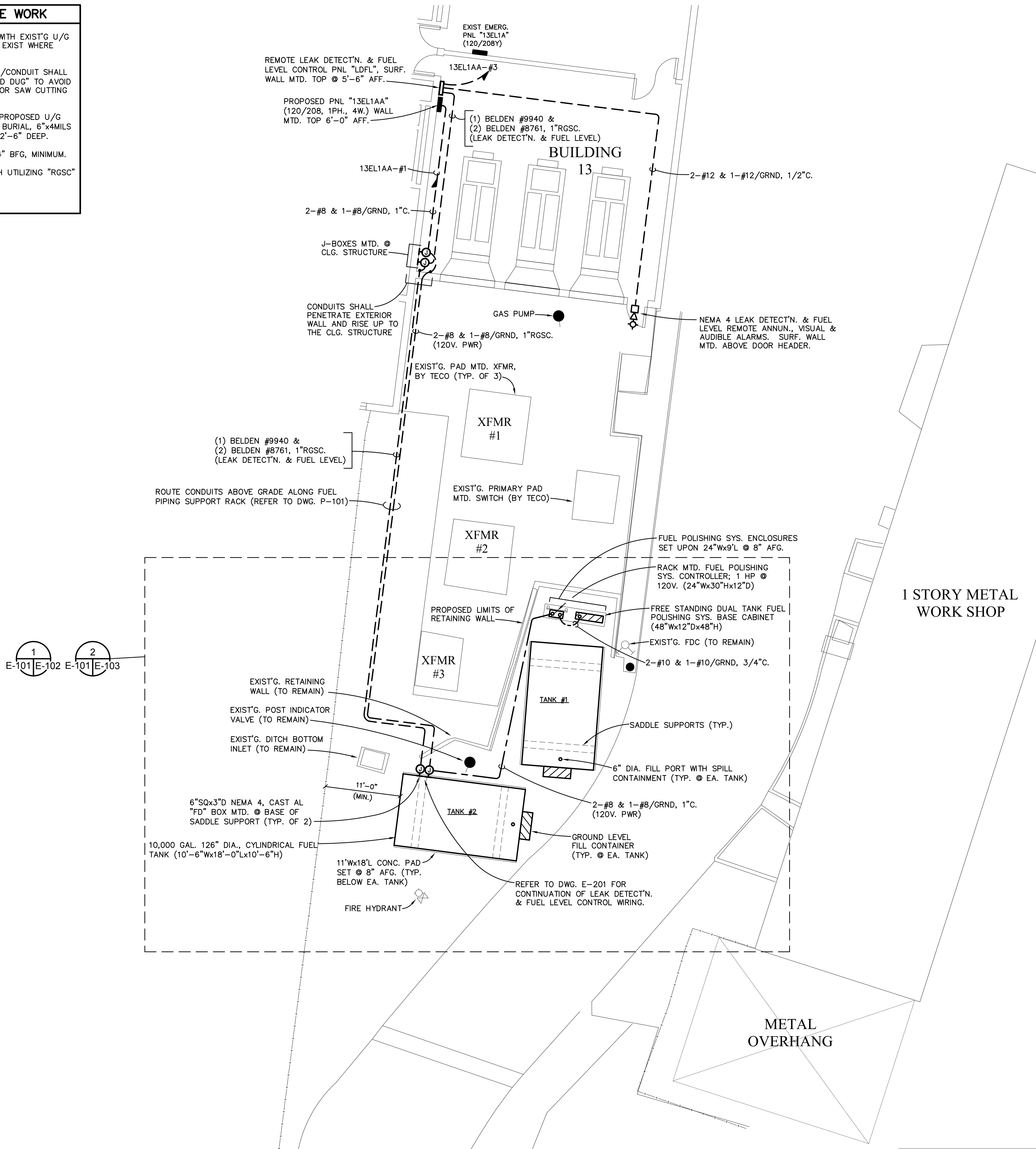


This item has been electronically signed and sealed by Robert A. Rolley, P.E. on the date included in the Certificate using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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TELEPHONE: (813) 888-0835 FAX: 884-8051
Robert Andrew Rolley, Florida P.E. #21600

COORDINATION NOTES – EXTERIOR SITE WORK

1. ALL UNDERGROUND CONDUIT ROUTINGS SHALL BE COORD. WITH EXIST'G U/G UTILITIES PRIOR TO INSTALLATION OF CONDUIT. SITUATIONS EXIST WHERE CONDUITS AND UTILITIES OCCUPY THE SAME AREA.
2. PRIOR TO INSTALLATION OF CONDUIT, EXIST'G U/G PIPING/CONDUIT SHALL BE TRACED AND MARKED. NEW TRENCHING SHALL BE "HAND DUG" TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING AND PATCHING OF EXISTING PAVING.
3. PROVIDE RED DETECTABLE WARNING TAPE 12" ABOVE ALL PROPOSED U/G CONDUIT ROUTINGS. TAPE SHALL BE SUITABLE FOR DIRECT BURIAL, 6"x4MILS & DETECTABLE BY METAL DETECTOR WHEN BURIED UP TO 2'-6" DEEP.
4. ALL UNDERGROUND CONDUITS SHALL BE BURIED, TOP @ 24" BFG, MINIMUM.
5. ALL UNDERGROUND CONDUITS SHALL TURN UP THRU EARTH UTILIZING "RGSC" ELBOWS & RISERS.
6. SPLICES BELOW GRADE ARE NOT ACCEPTABLE.



SITE PLAN - ELECTRICAL

SCALE: 1/8"=1'-0"

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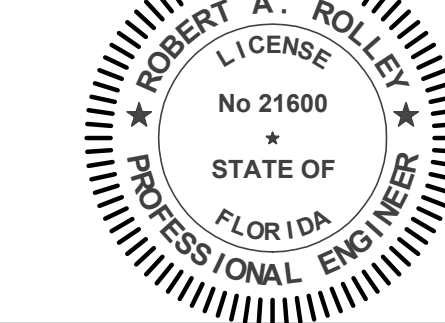


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SEAL :



PROJECT :
**ORIENT ROAD JAIL
DIESEL GENERATOR TANK REPLACEMENT**

LOCATION :
**1201 ORIENT ROAD,
Tampa, FL 33619**

REVISIONS

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delta	date	revision

SHEET TITLE :

**SITE PLAN -
ELECTRICAL**

DRAWN BY:

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DATE:

09/30/2020

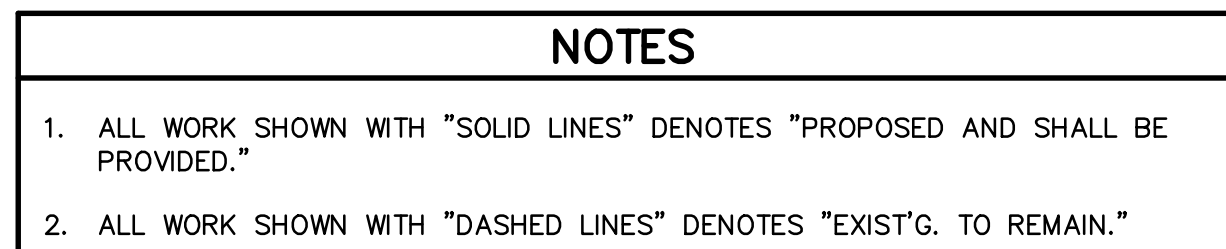
COMM. NO.

20029

SHEET NO. :

E- 101

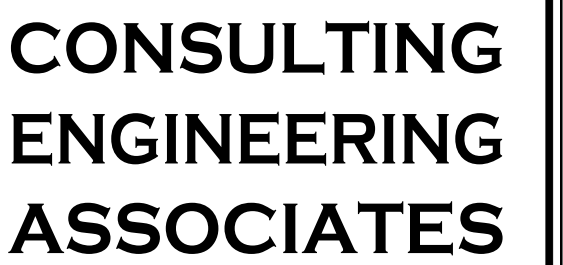
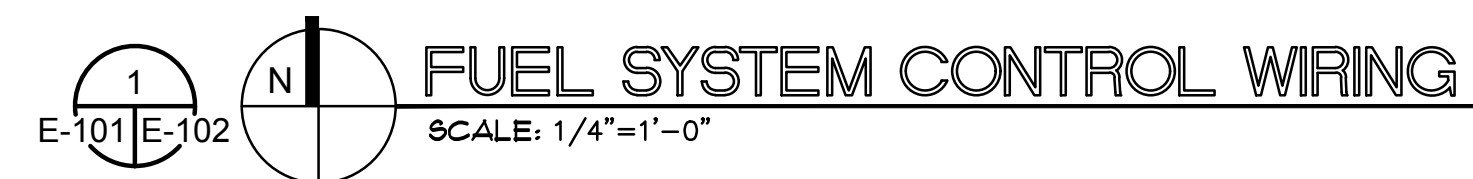
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2. PRIOR TO INSTALLATION OF CONDUIT, EXIST'G U/G PIPING/CONDUIT SHALL BE TRACED AND MARKED. NEW TRENCHING SHALL BE "HAND DUG" TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING AND PATCHING OF EXISTING PAVING. PROPOSED CONDUITS SHALL BE DIRECTIONALLY BORED BELOW EXIST'G. PAVING WHERE INDICATED.
3. PROVIDE RED DETECTABLE WARNING TAPE 12" ABOVE ALL PROPOSED U/G CONDUIT ROUTINGS. TAPE SHALL BE SUITABLE FOR DIRECT BURIAL, 6"x4MILS & DETECTABLE BY METAL DETECTOR WHEN BURIED UP TO 2'-6" DEEP.
4. ALL UNDERGROUND CONDUITS SHALL BE BURIED, TOP @ 24" BFG, MINIMUM.
5. ALL UNDERGROUND CONDUITS SHALL TURN UP THRU EARTH UTILIZING "RSCC" ELBOWS & RISERS.
6. SPLICES WITHIN POWER & CONTROL WIRING ARE NOT ACCEPTABLE.

[illegible]

SCALE: N.T.S.



1 PROVIDE 6"SQx3"D NEMA 4, CAST AL. "FD" BOX MTD. @ BASE OF SADDLE SUPPORT.



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A circular professional engineer seal for Robert A. Rolley. The outer ring contains the name "ROBERT A. ROLLEY" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the word "LICENSE" at the top, "No 21600" in the center, a small star below the number, "STATE OF" below the star, and "FLORIDA" at the bottom.

PROJECT : **ORIENT ROAD JAIL
DIESEL GENERATOR TANK REPLACEMENT**

LOCATION :
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Tampa, FL 33619

REVISIONS

		
		
		
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SHEET TITLE :

FUEL SYSTEM CONTROL WIRING

DRAWN BY:

DATE: 09/30/2020

COMM. NO. 20029

SHEET NO. :

E-102



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LIGHTNING PROTECTION SYSTEM NOTES

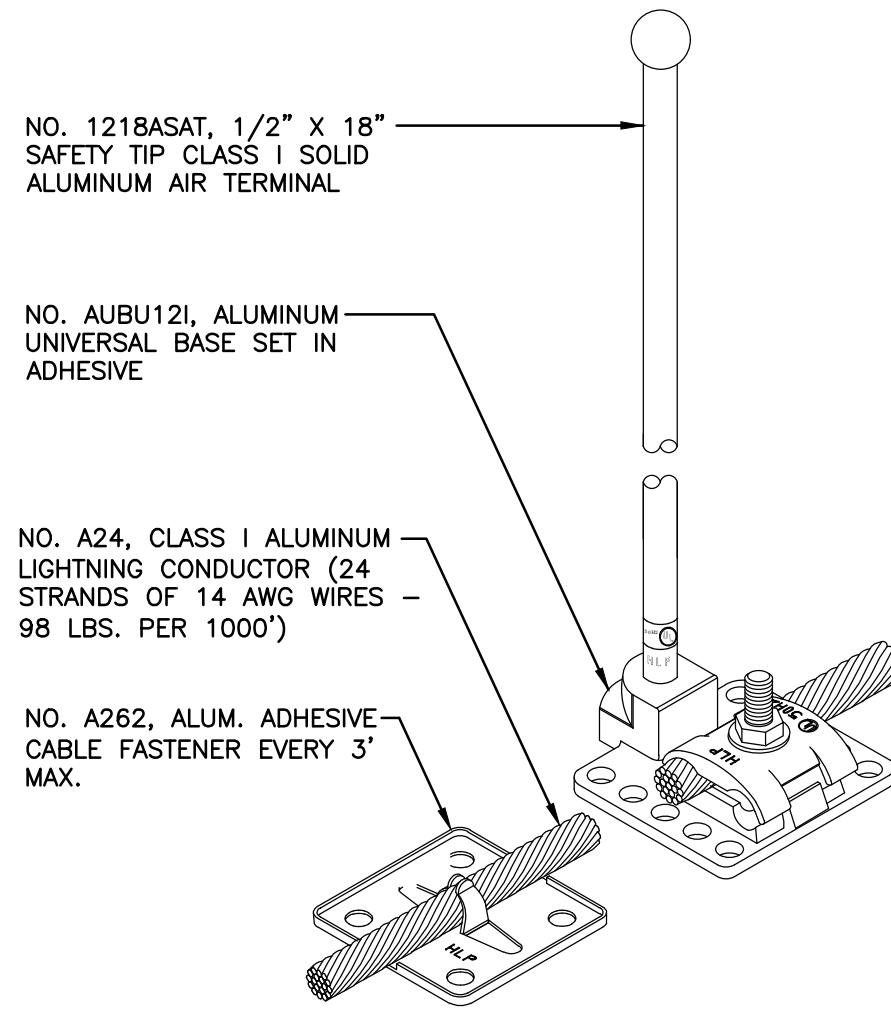
1. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH A U.L. MASTER LABEL AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 780 & U.L. 96A.
2. ALL MATERIAL AND COMPONENTS SHALL BE LISTED AND/OR CERTIFIED TO INDICATE THAT (1) THEY HAVE BEEN MANUFACTURED FOR USE IN LIGHTNING PROTECTION SYSTEMS UNDER THE CODE PROVISIONS LPI-176 AND (2) THEY HAVE BEEN TESTED AND INSPECTED FOR COMPLIANCE WITH LPI-176 BY A RECOGNIZED INDEPENDENT TESTING AGENCY, DESIGNATED BY THE INSTITUTE.
3. TANK COURSEING CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS INCLUDING PROJECTIONS AND SHALL AFFORD A TWO WAY PATH TO GROUND FROM THE BASE OF EACH AIR TERMINAL. TANK CONDUCTORS SHALL BE COURSED THROUGH OR AROUND OBSTRUCTIONS IN A HORIZONTAL PLANE WITH MAIN CONDUCTOR.
4. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOFING OR SIDING MATERIAL OR OTHER ALUMINUM SURFACES, AND ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES, ECT.
5. NO BEND OF A CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR HAVE A RADIUS BEND LESS THAN 8 INCHES. THIS RADIUS REQUIREMENT IS NOT APPLICABLE WHERE APPROVED CLAMPS OR CONNECTORS ARE USED TO ACCOMPLISH CABLE BENDS.
6. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" (DOWN AND UP) POCKETS.
7. AIR TERMINALS SHALL EXTEND ABOVE THE OBJECT TO BE PROTECTED NOT LESS THAN 10 INCHES.
8. AIR TERMINALS SHALL BE PLACED AT OR WITHIN 2 FEET OF THE EDGE AND CORNERS OF THE TANKS AND SHALL BE SPACED AT 20' MAXIMUM ABOUT THE PERIMETER.
9. ADHESIVE CABLE FASTENERS SHALL BE SPACED NOT MORE THAN THREE FEET APART ON ALL CONDUCTORS.
10. GALVANIZED OR PLATED STEEL NAILS, SCREWS OR BOLTS ARE NOT ACCEPTABLE.
11. BOLTED COMPRESSION CONNECTOR FITTING SHALL BE USED ON ALL LIGHTNING CONDUCTORS AS "END-TO-END", "TEE" OR "Y" SPLICES. THEY SHOULD BE ATTACHED SO AS TO WITHSTAND A PULL TEST OF 200 POUNDS.
12. FITTINGS FOR CONNECTION OF METAL PROJECTIONS OR OTHER METAL PARTS ABOUT THE TANKS SHALL BE OF AN ACCEPTABLE TYPE MADE TIGHT TO THE OBJECT BY COMPRESSION UNDER BOLT HEADS OF THE APPROVED TYPE. BOLTED CLAMPS AND SPLICERS OF CAST METAL SHALL BE ONLY USED.
13. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF LIGHTNING PROTECTION SYSTEM FOR ENGINEERS APPROVAL. SHOP DRAWINGS SHALL INCLUDE TYPES AND LOCATION OF ALL AIR TERMINALS, CONDUCTORS, CONNECTORS, GROUND RODS, METHODS AND TYPES OF BONDING. SUBMIT CATALOG CUTS OF ALL EQUIPMENT.

COORDINATION NOTES - EXTERIOR SITE WORK

1. ALL UNDERGROUND CABLE ROUTINGS SHALL BE COORD. WITH EXIST'G U/G UTILITIES PRIOR TO INSTALLATION OF CONDUIT. SITUATIONS EXIST WHERE CONDUITS AND UTILITIES OCCUPY THE SAME AREA.
2. PRIOR TO INSTALLATION OF COUNTERPOISE, EXIST'G. U/G PIPING/CONDUIT SHALL BE TRACED AND MARKED. NEW TRENCHING SHALL BE "HAND DUG" TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING AND PATCHING OF EXISTING PAVING.

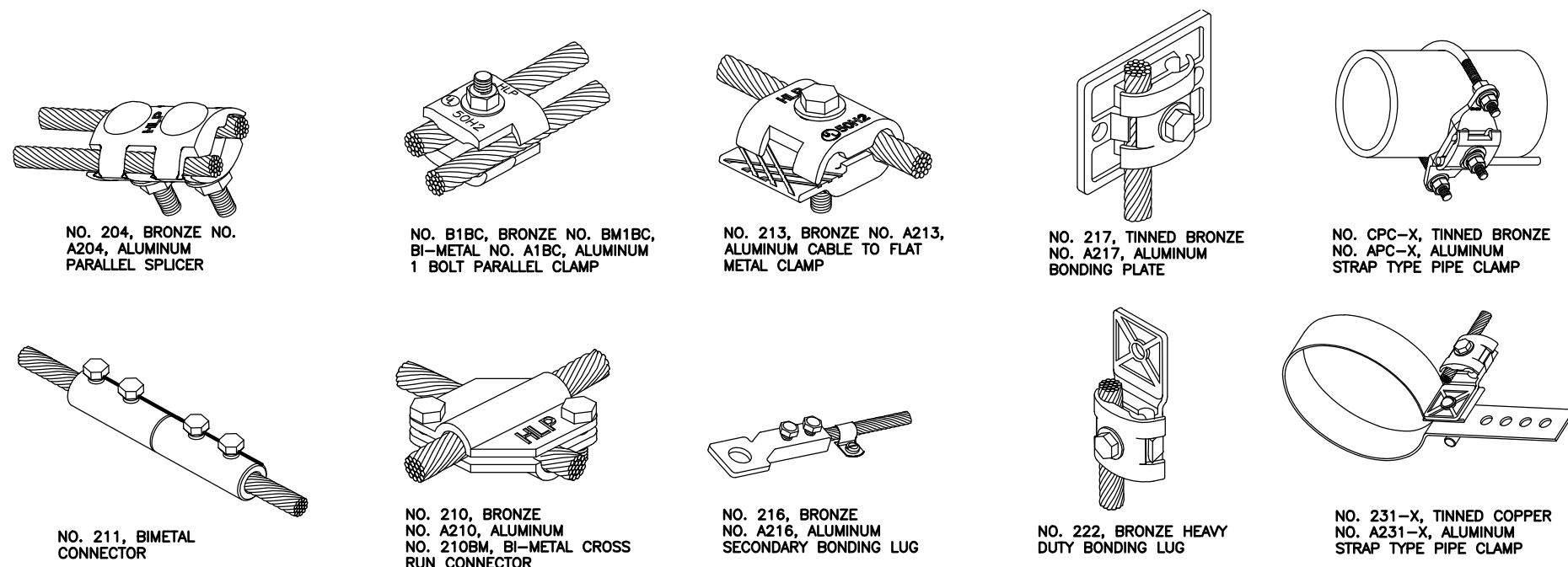
TESTING REQUIREMENTS

TEST GROUND RESISTANCE OF SYSTEM WITH GROUND RESISTANCE TESTER. GROUND ROD RESISTANCE SHALL NOT EXCEED (15) OHMS. THE RESISTANCE OF THE GROUNDING SYSTEM SHALL NOT EXCEED (5) OHMS. WHERE TEST SHOW RESISTANCE-TO-GROUND IS OVER (5) OHMS, TAKE APPROPRIATE ACTION TO REDUCE RESISTANCE TO (5) OHMS, OR LESS, BY DRIVING ADDITIONAL GROUND RODS; THEN RETEST TO DEMONSTRATE COMPLIANCE.



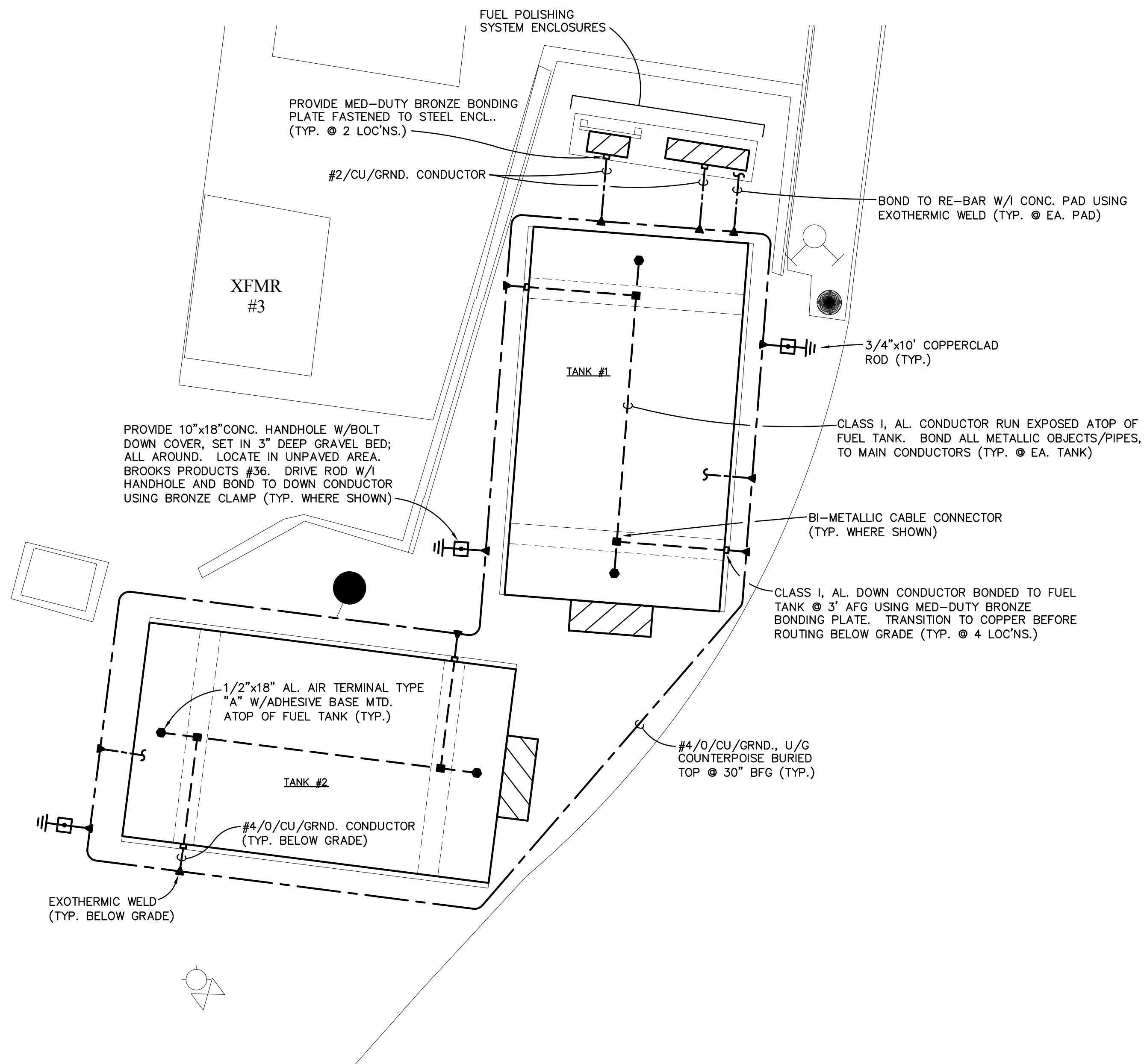
AIR TERMINAL DETAIL "A"

NTS



TYPICAL BONDING / SPLICING DETAILS

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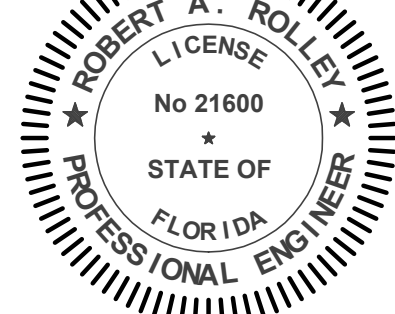


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SEAL :



PROJECT :
**ORIENT ROAD JAIL
DIESEL GENERATOR TANK REPLACEMENT**

LOCATION :
**1201 ORIENT ROAD,
Tampa, FL 33619**

REVISIONS

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SHEET TITLE :

FUEL STORAGE TANKS - LIGHTNING PROTECTION

DRAWN BY: RAR

DATE: 09/30/2020

COMM. NO. 20029

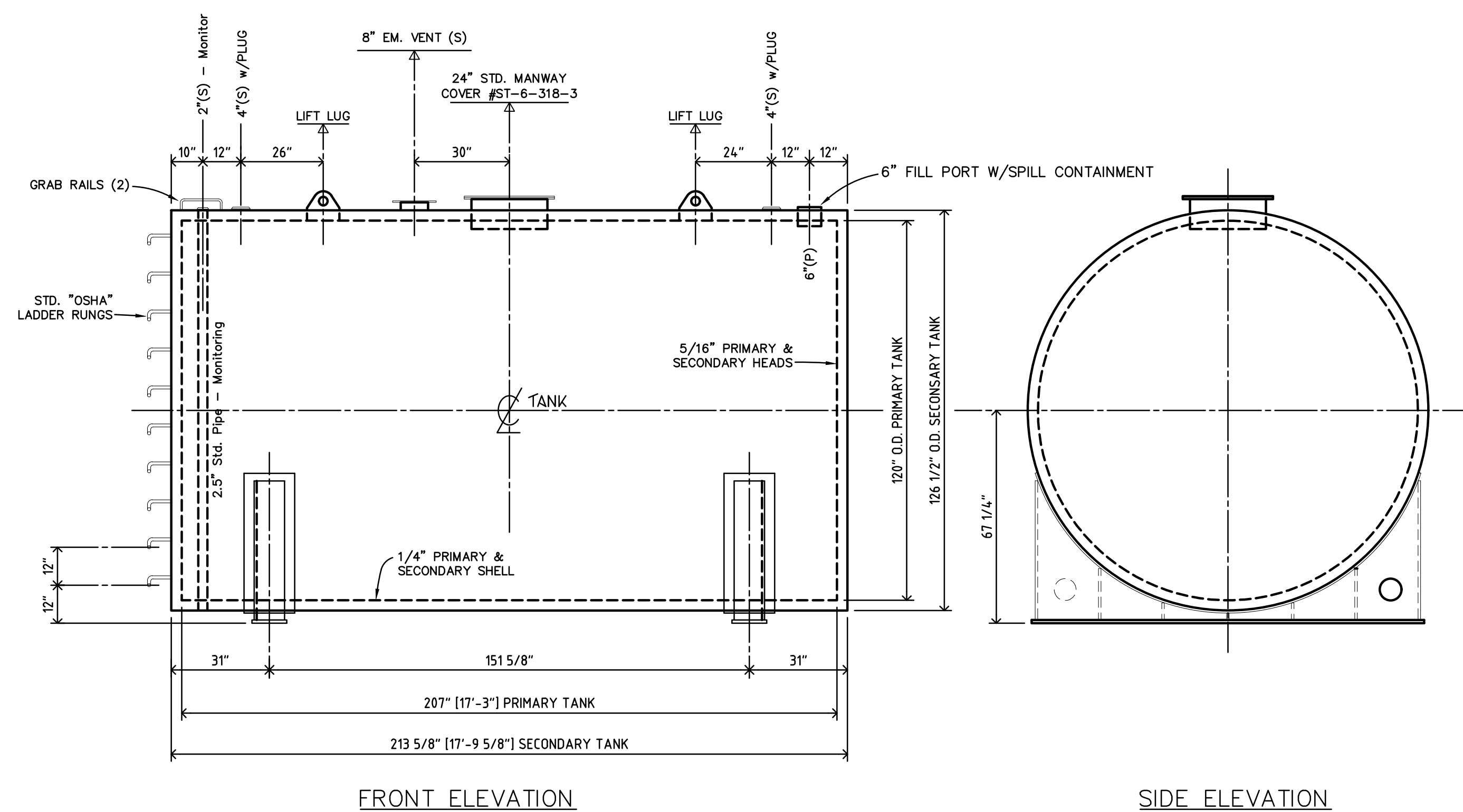
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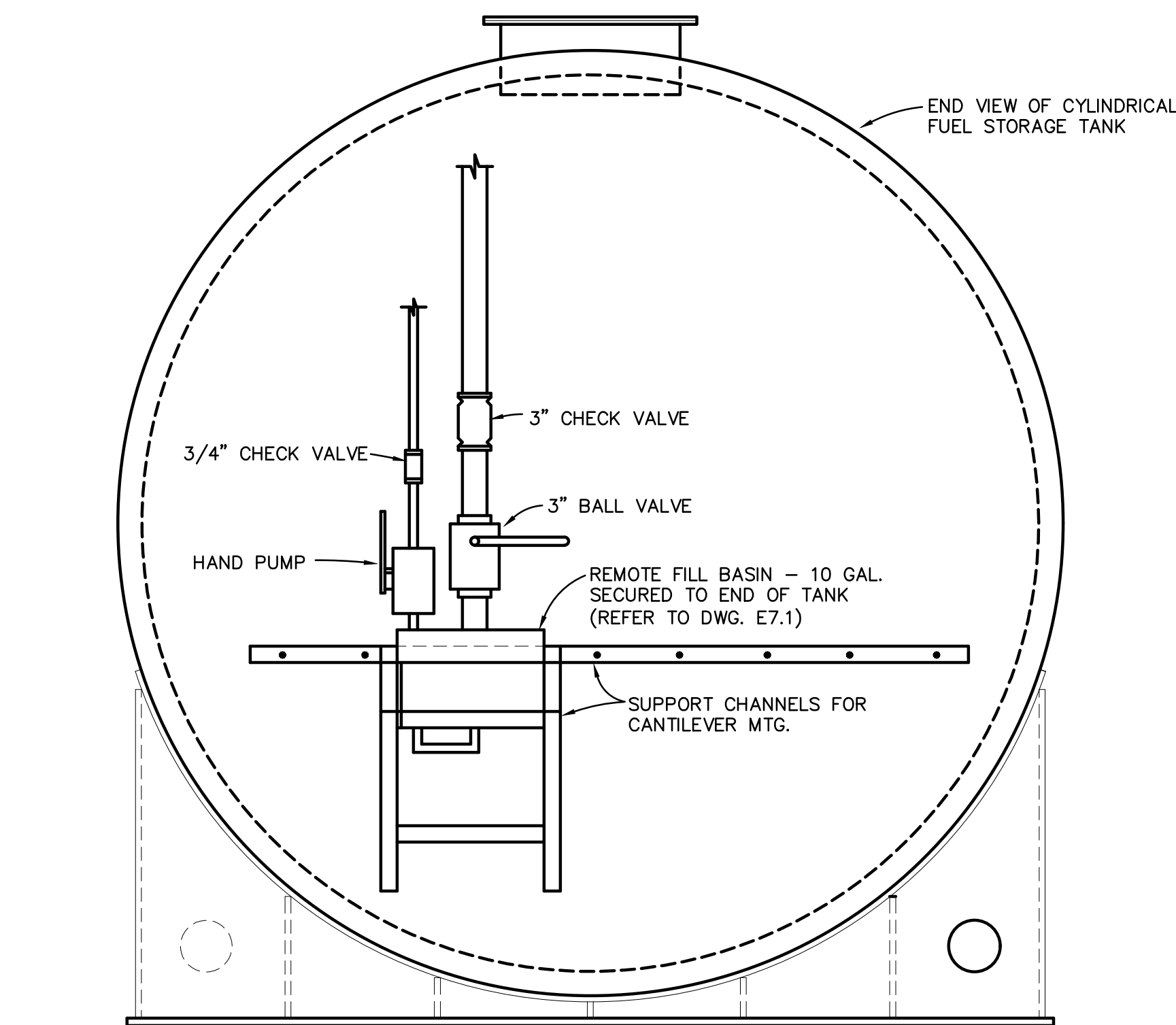
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BASIS OF DESIGN: FIREGUARD 126" DIAMETER

TYPICAL 10,000 GALLON ABOVE GRADE FUEL STORAGE TANK
SCALE: N.T.S.

- GENERAL NOTES**
1. CAPACITY 10,000 GALLONS, 25000 LBS (EMPTY).
 2. FABRICATE PER UL-2085, LABEL REQ'D..
 3. DOUBLE WALL, TYPE II CONSTRUCTION, 360° WRAP.
 4. SHOP TEST AT 3-5 PSI AIR.
 5. USE DOUBLE WALL TESTING PROCEDURES.
 6. (P)= INDICATES PRIMARY PENETRATION.
 7. (S)= INDICATES SECONDARY PENETRATION.
 8. FILL INTERSTITIAL SPACE WITH LIGHT WEIGHT INSULATING CONCRETE PER STI SPECIFICATIONS.
 9. CLOSE OFF ALL OPENINGS PRIOR TO SHIPMENT.
 10. PROVIDE 1" DIA. (P) PORTS FOR SUPPLY & RETURN FUEL PIPING TO THE DAY TANKS & POLISHING SYSTEM, AS SHOWN ON DWG. P-101.



DETAIL - GROUND LEVEL REMOTE FILL
SCALE: N.T.S.

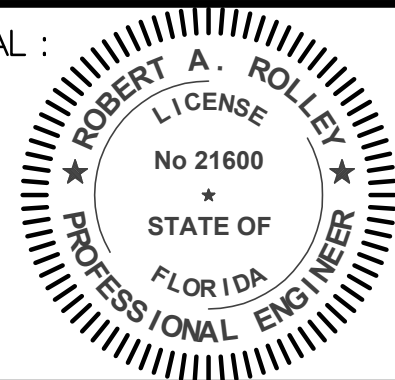


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SHEET TITLE :

**FUEL TANK
ELEVATIONS**

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DATE: 09/30/2020
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SHEET NO. :

E- 201


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