



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 47675

CONSTRUCTION WORK
FUEL TANK MODIFICATION & ENVIRONMENTAL REMEDIATION
– CENTRAL REGION
SERVICE CONTRACT
GNARESP CORNING TOWER
ALBANY, NY 12242

May 21, 2025

<p>NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.</p>
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DRAWINGS

1. Revised Drawings:
 - a. The drawing set that accompanies this Addendum, noted “ADDENDUM 01 C 5/21/25”, will replace the original contract drawing set in its entirety.

END OF ADDENDUM

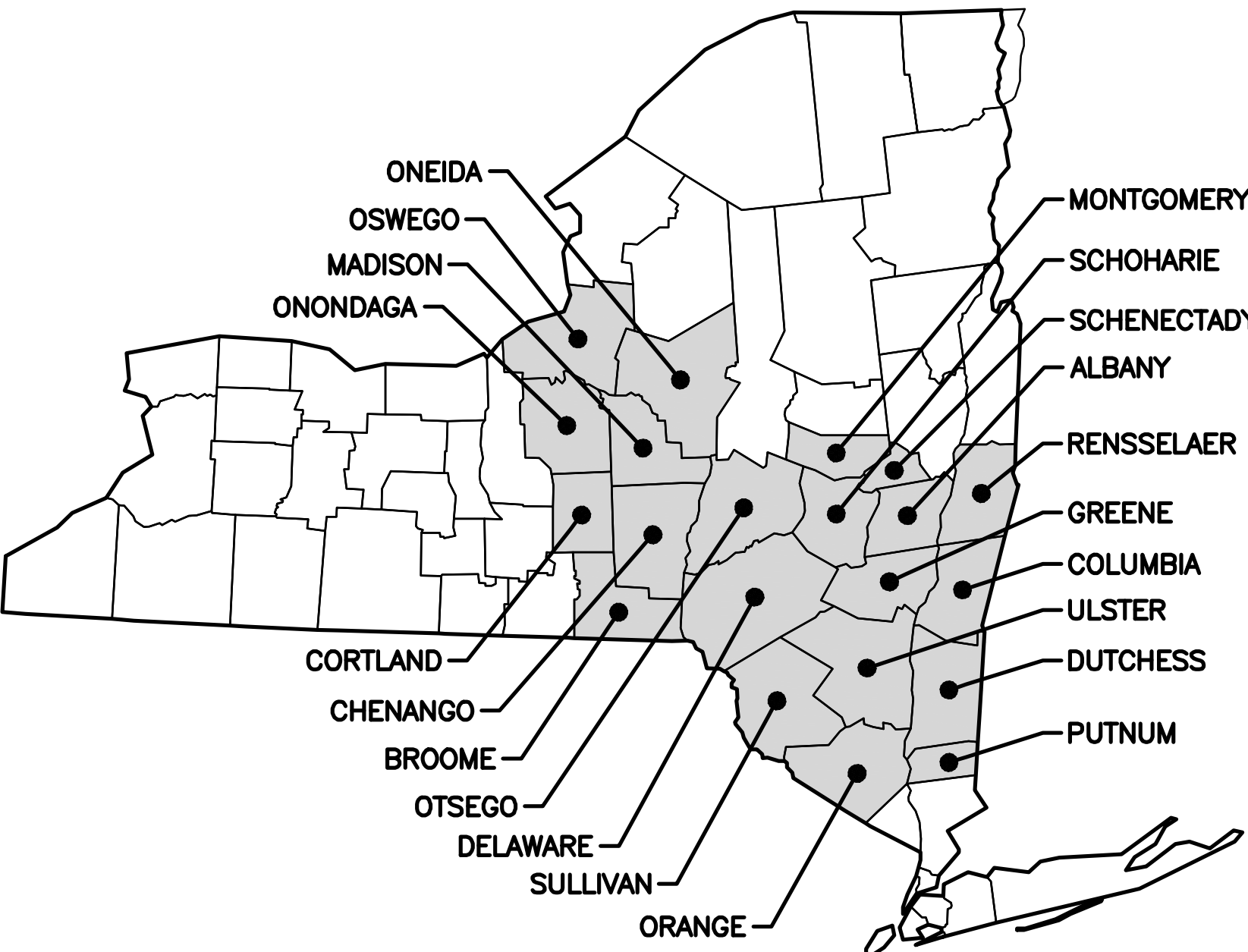
Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

CENTRAL REGION
VARIOUS FACILITIES

O.G.S. PROJECT NO. 47675-C

FINAL SUBMISSION
1/31/2025



KEY PLAN



Office of
General Services

DESIGN & CONSTRUCTION

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		C-49	CONTROL OVERVIEW DETAIL



ADDENDUM 01 C 5/21/25

CODE ITEM	CODE SECTION	REQUIRED/ALLOWED	ACTUAL	COMMENTS
<u>CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION</u>	SECTION 307			
OCCUPANCY H				
<u>CHAPTER 5 – GENERAL BUILDING HEIGHTS AND AREAS</u>				
ALLOWABLE BUILDING HEIGHT (FEET)	TABLE 504.3	65'		
ALLOWABLE NUMBER OF STORIES	TABLE 504.4	2		
ALLOWABLE AREA	TABLE 506.2	9,500 SF		
<u>CHAPTER 10 – MEANS OF EGRESS</u>				
MEANS OF EGRESS ILLUMINATION	SECTION 1008	REQUIRED WITH EMERGENCY POWER		
ACCEPTABLE MEANS OF EGRESS	SECTION 1009	REQUIRED		
COMMON PATH OF EGRESS TRAVEL	SECTION 1029.8	75' MAXIMUM TRAVEL DISTANCE		
<u>CHAPTER 11 – ACCESSIBILITY</u>				
ACCESSIBLE ROUTE	SECTION 1104	REQUIRED		
ACCESSIBLE ENTRANCES	SECTION 1105	REQUIRED		
<u>CHAPTER 12 – VENTILATION</u>	SECTION 1202	MECHANICAL OR NATURAL		
LIGHT: NATURAL/ARTIFICIAL	SECTION 1204.2/1204.3	ARTIFICIAL AND NATURAL		
<u>CHAPTER 27 – ELECTRICAL</u>				
MEANS OF EGRESS ILLUMINATION	SECTION 2702.2.13	REQUIRED		

2020 UNIFORM CODE

101.2 Scope. The provisions of the Uniform Code shall apply to all new and existing buildings, structures, systems and equipment as indicated in Sections 101.2.1 through 101.2.8.

302.2 Additional codes. Alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions and changes of occupancy or relocation, respectively, in this code and the International Energy Conservation Code, International Fire Code, International Fuel Gas Code, International Mechanical Code, International Plumbing Code, International Property Maintenance Code, International Private Sewage Disposal Code, International Residential Code and NFPA 70. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.

101.2.2 The Building Code. The provisions of the 2020 Building Code of New York State shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

REQUIRED CODES

1. Under the Uniform Code, all building projects must meet or exceed the following codes and applicable reference standards contained therein.

- a. 2020 Uniform Code, consisting of:
 - 2020 Building Code of New York State
 - 2020 Residential Code of New York State
 - 2020 Existing Building Code of New York State
 - 2020 Fire Code of New York State
 - 2020 Plumbing Code of New York State
 - 2020 Mechanical Code of New York State
 - 2020 Fuel Gas Code of New York State
 - 2020 Property Maintenance Code of New York State
 - 2017 National Electric Code NEPA 70, as referenced in the codes above.
- b. 2020 Energy Code, consisting of:
 - 2020 Energy Conservation Construction Code of New York State
 - 2019 ASHRAE 90.1
- c. 6NYCRR Part 613 Petroleum Bulk Storage
- d. NFPA 30 Flammable and Combustible Liquids Code
- e. NFPA 30A Code for Motor Fuel Dispensing Facilities and Repair Garages
- f. NFPA 110 Standard for Emergency and Standby Power Systems

THE PUBLICATIONS LISTED ABOVE ARE BASED ON THE FOLLOWING DOCUMENTS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL AND ASHRAE INTERNATIONAL:

*2018 International Residential Code (first printing w/ errata)
 2018 International Building Code (first printing w/ errata)
 2018 International Plumbing Code (first printing w/ errata)
 2018 International Mechanical Code (first printing w/ errata)
 2018 International Fuel Gas Code (first printing w/ errata)
 2018 International Fire Code (first printing w/ errata)
 2018 International Property Maintenance Code (first printing w/ errata)
 2018 International Existing Building Code (first printing w/ errata)
 2018 International Energy Conservation Code (first printing w/ errata)
 2016 Edition of the Energy Standard for Buildings Except Low-Rise Residential Buildings (""ASH RAE 90.1-2016"")

CONSTRUCTION SAFEGUARDS

1. SCOPE: THE SAFETY OF THE CONSTRUCTION AREA, AND ADJACENT PUBLIC AND PRIVATE PROPERTIES SAFETY, SHALL BE PROTECTED DURING CONSTRUCTION AND DEMOLITION IN ACCORDANCE WITH THE 2020 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS) CHAPTER 15 AND THE 2020 FIRE CODE OF NEW YORK STATE (FCNYS) CHAPTER 33. COMPLIANCE WITH NFPA 241 IS REQUIRED FOR ITEMS NOT SPECIFICALLY ADDRESSED. THIS SPECIFICATION PROSCRIBES MINIMUM SAFEGUARDS FOR CONSTRUCTION TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS.
2. CONSTRUCTION INCLUDES ANY NEW CONSTRUCTION, REMOVALS, REMODELING, ALTERATIONS, REPAIRS OR ADDITIONS TO ANY BUILDING OR STRUCTURE.
3. MAINTENANCE OF SAFE CONDITIONS: REQUIRED SAFETY ELEMENTS SUCH AS EXITS, EXISTING STRUCTURAL MEMBERS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE THE BUILDING IS NOT OCCUPIED OR WHERE SUCH REQUIRED ELEMENTS ARE BEING ALTERED OR REPAIRED AND ADEQUATE SUBSTITUTE PROVISIONS ARE MADE.
4. MEAN OF EGRESS: AN APPROVED PERMANENT OR TEMPORARY MEANS OF EGRESS SHALL BE MAINTAINED. AN EGRESS COMPONENT SHALL NOT BE DESTROYED UNLESS AND UNTIL A SUBSTITUTE MEANS OF EGRESS HAS BEEN PROVIDED.
5. FIRE SAFETY DURING CONSTRUCTION AND REMOVALS: FIRE SAFETY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF EBCNYS CHAPTER 15 AND FCNYS CHAPTER 33.
 - A. FIRE EXTINGUISHERS: PROVIDE PORTABLE FIRE EXTINGUISHERS FOR PROTECTION DURING CONSTRUCTION AND REMOVALS AT EACH STAIRWAY, ON EACH FLOOR LEVEL, WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, AND IN EVERY STORAGE AND CONSTRUCTION SHED. EXTINGUISHERS SHALL COMPLY WITH FCNYS 906, SIZED FOR ORDINARY HAZARD UNLESS GREATER HAZARD IS SPECIFIED. ADDITIONAL PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.
 - B. ANY BURNING, CUTTING OR WELDING SHALL REQUIRE A HOT WORK PERMIT AND APPROVAL.
6. MATERIAL HANDLING: EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED, AND WASTE SHALL BE REMOVED, SO AS NOT TO ENDANGER THE PERSONS OR PROPERTY OR TO IMPEDE A MEANS OF EGRESS. PLACE MATERIAL AND WASTE SO AS NOT TO OBSTRUCT ACCESS TO FIRE HYDRANTS, STANDPIPES, FIRE EXTINGUISHERS, FIRE OR POLICE ALARMS BOXES, CATCH BASINS, MANHOLES, RELEVANT UTILITY STRUCTURES, TRAFFIC OR OBSERVATION OF TRAFFIC SIGNALS. COMBUSTION DEBRIS SHALL NOT BE ACCUMULATED ON SITE, AND SHALL BE REMOVED AT THE END OF EACH WORK SHIFT. RUBBISH CONTAINERS WITH A CAPACITY EXCEEDING 5.33 CUBIC FEET (40 GALLONS OR 0.15 CUBIC METERS) SHALL HAVE TIGHT FITTING OR SELF CLOSING LIDS, AND SHALL BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIAL OR MATERIAL THAT MEETS FCNYS SECTION 3304.2.3 (2).

BUILDING INFORMATION (SPECIFIED ON A SITE BY SITE BASIS):

OCCUPANCY CLASSIFICATION:




CONSTRUCTION CLASSIFICATION:

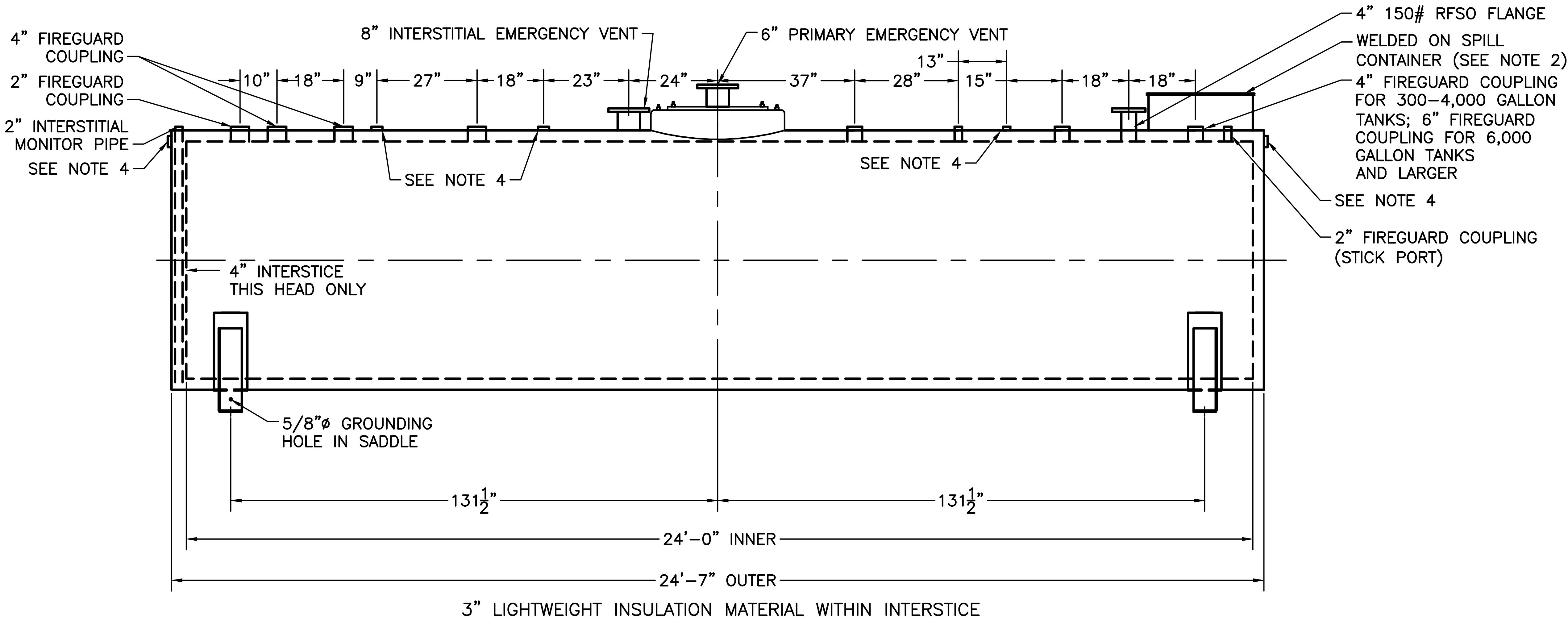
CLASSIFICATION OF WORK (SPECIFIED ON A SITE BY SITE BASIS):

ALTERATION LEVEL

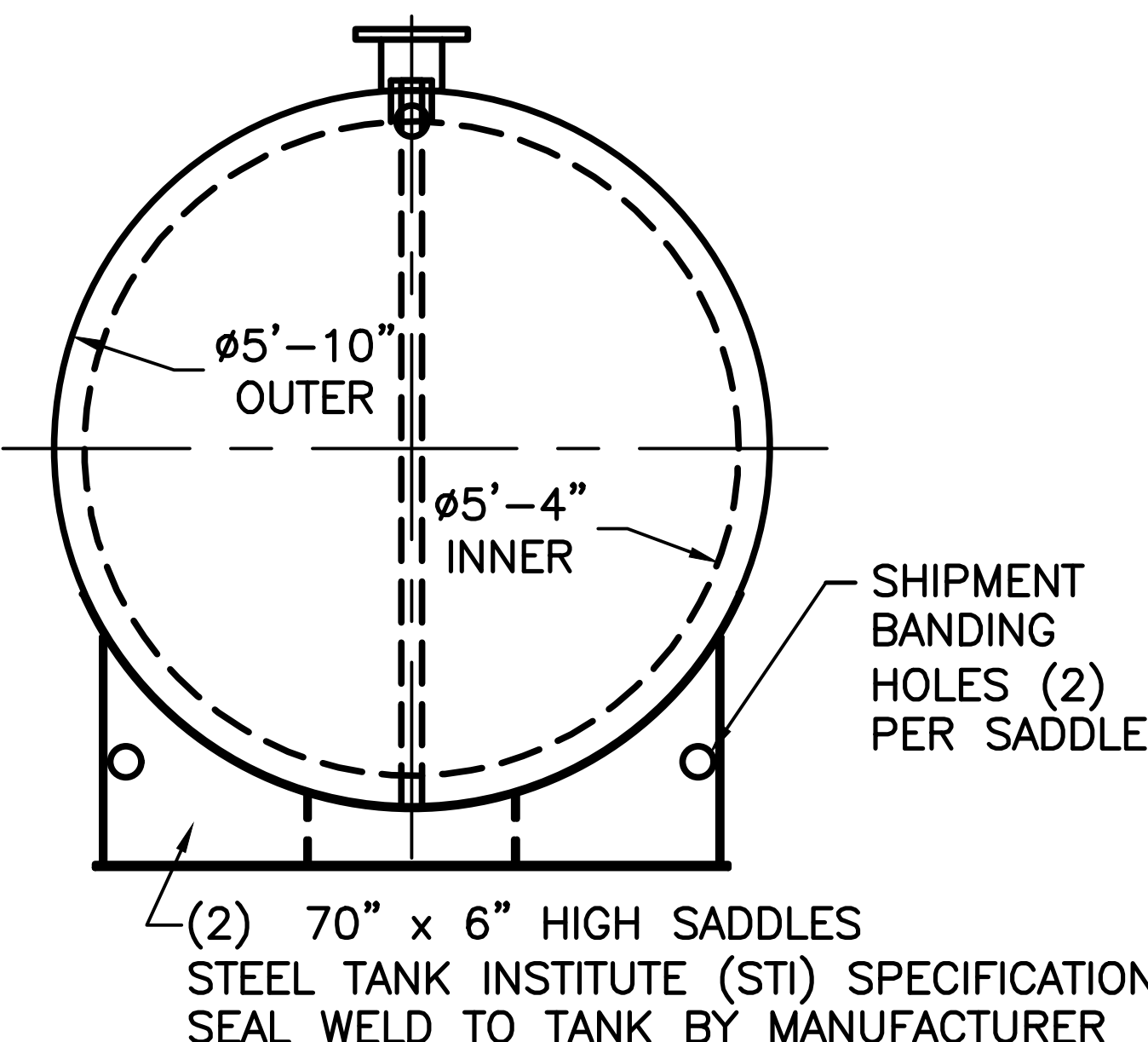
FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) COMPLIANCE

THE DESIGNER OF RECORD SHALL REVIEW FEMA FLOOD HAZARD DATA AND FLOOD INSURANCE RATE MAPS (FIRMS) AND PERFORM A FLOOD RISK ANALYSIS IN, ON A SITE BY SITE BASIS, ACCORDANCE WITH FEMA GUIDELINES AND STANDARDS TO DETERMINE IF THE PROPOSED INSTALLATION IS IN A FLOOD HAZARD AREA. LOCATIONS DETERMINED TO BE IN A AREA OF FLOOD RISK SHALL INCORPORATE FLOOD RESISTANT DESIGN AND CONSTRUCTION REQUIREMENTS IN ACCORDANCE WITH THE NYS BUILDING CODE, NATIONAL FLOOD INSURANCE PROGRAM (NFIP), FEMA, NFPA, AND ASCE REQUIREMENTS.

 <p>NEW YORK STATE OF ENVIRONMENT</p>	<p>Office of General Services</p> <p>DESIGN & CONSTRUCTION</p>																														
CONSULTANT																															
CERTIFICATE OF AUTHORIZATION #: 0017005																															
	<p>LiRo Engineers, Inc. 3 Aerial Way, Syosset, New York</p>																														
<p>ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE:</p> <p>TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE OF NEW YORK STATE.</p>																															
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<p>LOCATION:</p> <p style="text-align: center;">CENTRAL REGION VARIOUS FACILITIES</p>																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 35%; text-align: center;">1/31/2026</td> <td style="width: 35%; text-align: center;">FINAL SUBMISSION</td> </tr> <tr> <td style="text-align: center;">MARK</td> <td style="text-align: center;">DATE</td> <td style="text-align: center;">DESCRIPTION</td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>PROJECT NUMBER: 47675 — C</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>DESIGNED BY: M. GUTMANN</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>DRAWN BY: A. KELLY</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>FIELD CHECK: M. WESOLOWSKI</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>APPROVED: M. WESOLOWSKI</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>SHEET TITLE:</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">CODE COMPLIANCE PLAN</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p>DRAWING NUMBER:</p> <p style="text-align: center; font-size: 1.5em; font-weight: bold;">G-02</p> </td> </tr> <tr> <td colspan="3" style="padding: 5px;"> <p style="text-align: center;">SHEET 2 OF 51</p> </td> </tr> </table>			1/31/2026	FINAL SUBMISSION	MARK	DATE	DESCRIPTION	<p>PROJECT NUMBER: 47675 — C</p>			<p>DESIGNED BY: M. GUTMANN</p>			<p>DRAWN BY: A. KELLY</p>			<p>FIELD CHECK: M. WESOLOWSKI</p>			<p>APPROVED: M. WESOLOWSKI</p>			<p>SHEET TITLE:</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">CODE COMPLIANCE PLAN</p>			<p>DRAWING NUMBER:</p> <p style="text-align: center; font-size: 1.5em; font-weight: bold;">G-02</p>			<p style="text-align: center;">SHEET 2 OF 51</p>		
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ELEVATION VIEW
SCALE: NONE



END VIEW
SCALE: NONE

- NOTES:**
1. TANK SHOWN IS TYPICAL FOR 64" INNER DIAMETER 4,000 GALLON CAPACITY. THIS 4,000 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 300-8,000 GALLON TANKS. TANK INNER DIAMETERS MAY VARY BETWEEN 48 INCHES AND 96 INCHES BASED ON SITE SPECIFIC REQUIREMENTS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORT SADDLES AND ANCILLARY EQUIPMENT FOR TANK CAPACITIES 300-8,000 GALLONS.
 2. PROVIDE WELDED ON SPILL CONTAINER APPROX. 24" DIA. X 13 1/2" HT. X 1/4" THICK (15 GALLON MINIMUM) WITH LOCKABLE LID FOR TANKS 1,000 GALLON AND LARGER. PROVIDE 10 GAL SPILL CONTAINER FOR 300-500 GALLON TANKS.
 3. SADDLE LOCATION AS PER TANK MANUFACTURER SPECIFICATIONS.
 4. 2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG - FOR MFG USE ONLY.
 5. WHEN TANK INSULATION PACKAGE IS REQUIRED, EXTEND LENGTH OF FITTINGS TO ACCOUNT FOR INSULATION THICKNESS.
 6. TANKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 2085 SPECIFICATIONS.
 7. QUANTITY, SIZE AND LOCATION OF TANK FITTINGS ARE SHOWN FOR GENERAL REFERENCE. REQUIRED FITTINGS WILL BE PROVIDED BASED ON SITE SPECIFIC REQUIREMENTS.

Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0017985
LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

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CONTRACT
CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

SHEET TITLE:
TYPICAL TYPE DWS-1
ABOVEGROUND FUEL STORAGE
TANK - CYLINDRICAL
4,000 GALLON REFERENCE

DRAWING NUMBER:
C-01

SHEET 3 OF 51

NEW YORK

STATE OF

CIVIL SERVICE

Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

LiRo Engineers, Inc.

3 Aerial Way, Syosset, New York

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STATE OF NEW YORK

SEAL OF THE STATE OF NEW YORK

REGISTERED PROFESSIONAL ENGINEER

12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
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LOCATION:
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MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
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DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

TYPICAL TYPE DWS-1
ABOVEGROUND FUEL
STORAGE TANK -
RECTANGULAR
4,000 GALLON REFERENCE

DRAWING NUMBER:

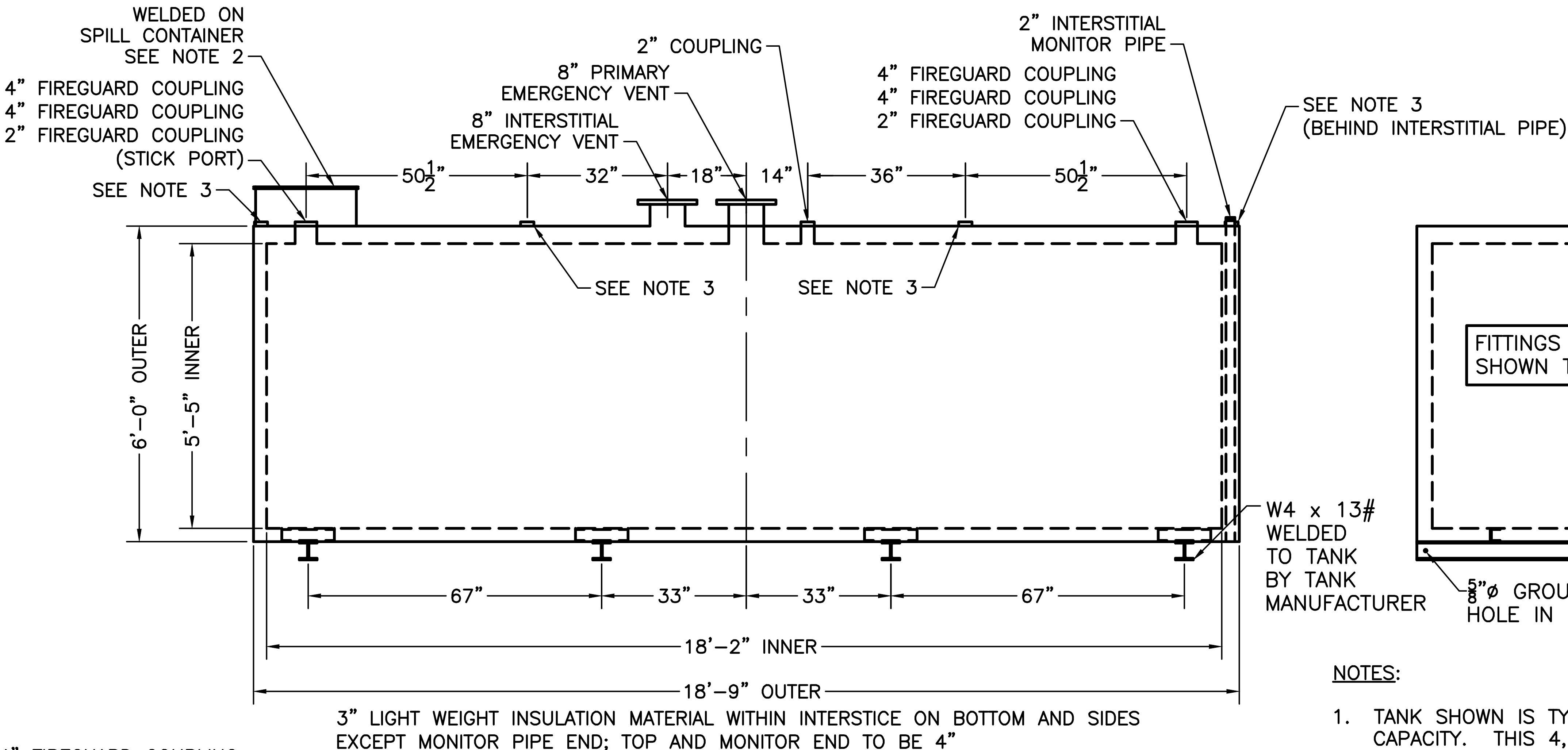
C-02

SHEET

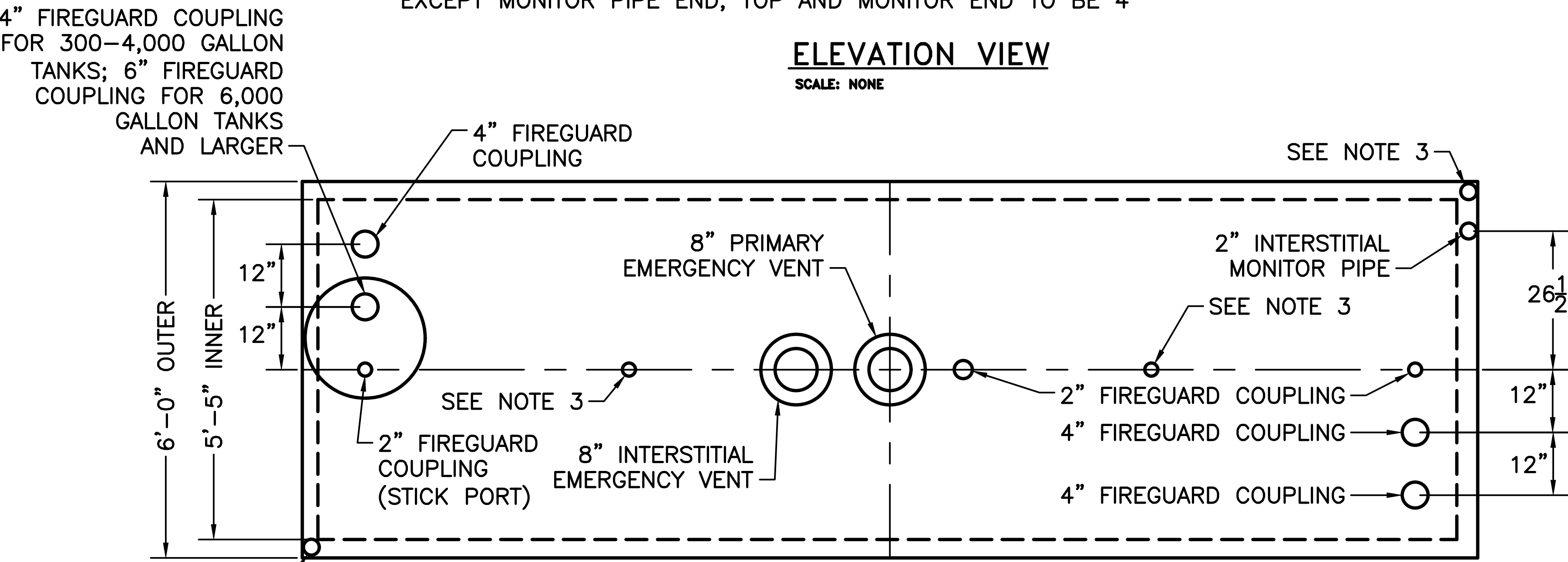
4

OF

51



ELEVATION VIEW
SCALE: NONE



PLAN VIEW
SCALE: NONE

NOTES:

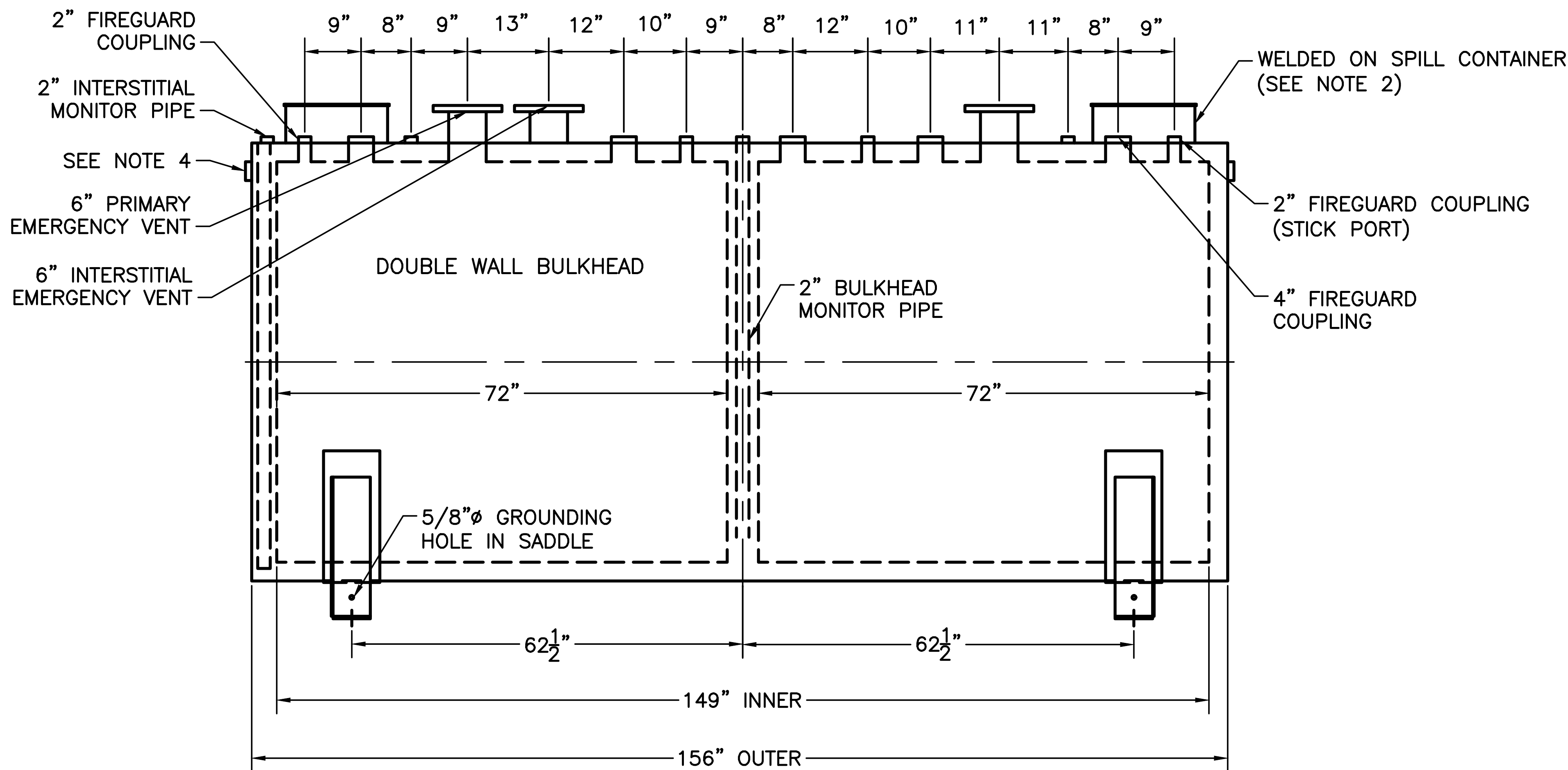
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- 2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG - FOR MFG USE ONLY.
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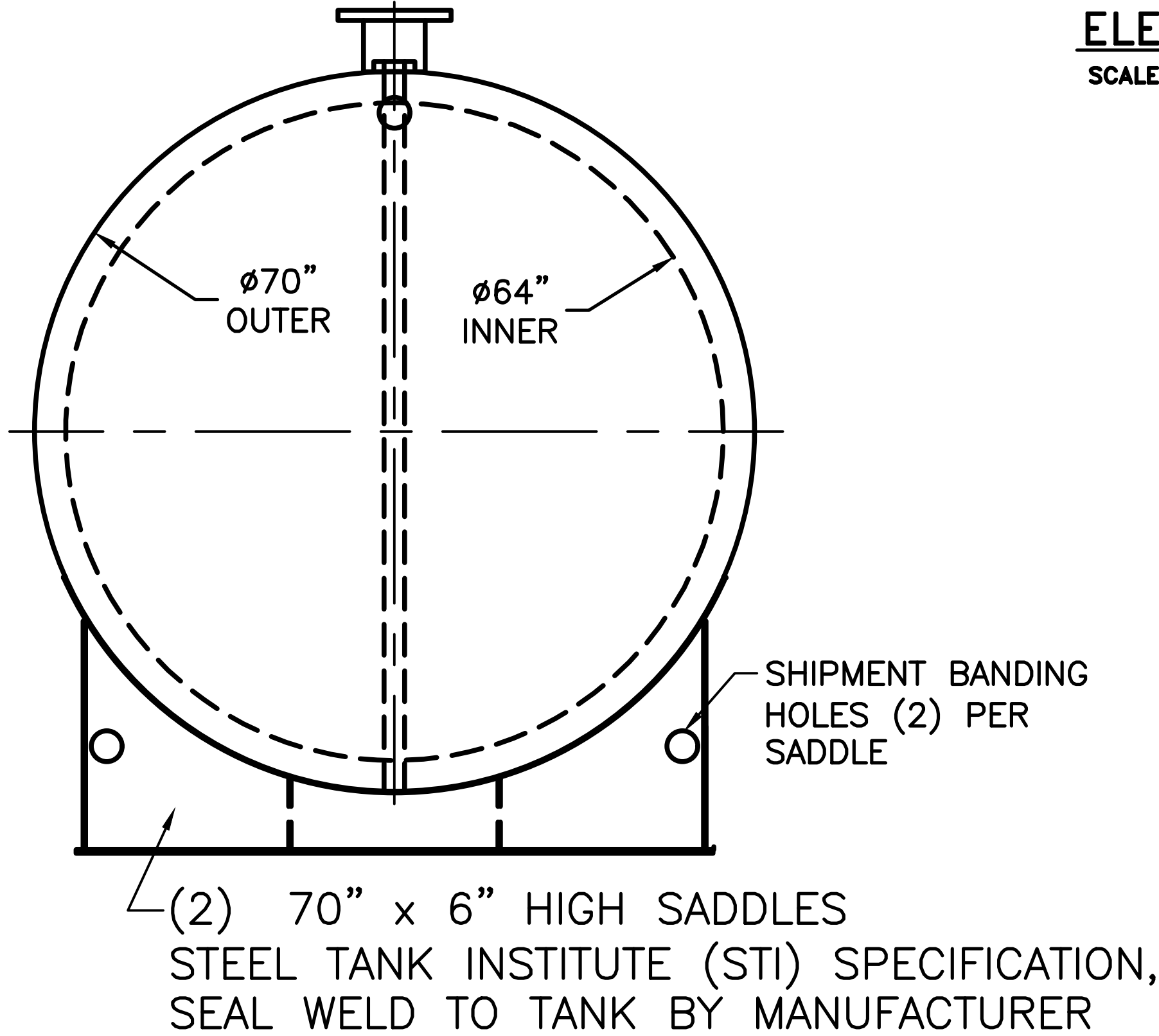
1. TANK SHOWN IS TYPICAL FOR 10,000 GALLON CAPACITY. THIS 10,000 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 10,000–20,000 GALLON TANKS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORT SADDLES AND ANCILLARY EQUIPMENT FOR OTHER TANK CAPACITIES.
2. PROVIDE WELDED ON SPILL CONTAINER APPROX. 24" DIA. X 13 1/2" HT. X 1/4" THICK (15 GALLON MINIMUM) WITH LOCKABLE LID.
3. SADDLE LOCATION AS PER TANK MANUFACTURER SPECIFICATIONS.
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5. WHEN TANK INSULATION PACKAGE IS REQUIRED, EXTEND LENGTH OF FITTINGS TO ACCOUNT FOR INSULATION THICKNESS.
6. TANKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 2085 SPECIFICATIONS.
7. QUANTITY, SIZE AND LOCATION OF TANK FITTINGS ARE SHOWN FOR GENERAL REFERENCE. REQUIRED FITTINGS WILL BE PROVIDED BASED ON SITE SPECIFIC REQUIREMENTS.

CONTRACT:	
CONSTRUCTION	
TITLE:	
FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION	
LOCATION:	
CENTRAL REGION VARIOUS FACILITIES	

	1/31/2025	FINAL SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47675 — C	
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE: TYPICAL TYPE DWS—1 ABOVEGROUND FUEL OP STORAGE TANK — CYLINDRICAL 10,000 GALLON REFERENCE		
DRAWING NUMBER: C—03		
SHEET	5	OF 51



ELEVATION VIEW
SCALE: NONE



END VIEW
SCALE: NONE

- NOTES:
1. TANK SHOWN IS TYPICAL FOR 64" INNER DIAMETER 2,000 GALLON CAPACITY SPLIT TANK. THIS 2,000 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 2,000-3,000 GALLON SPLIT TANKS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORT SADDLES AND ANCILLARY EQUIPMENT FOR TANK CAPACITIES 2,000-3,000 GALLONS.
 2. PROVIDE WELDED ON SPILL CONTAINER APPROX. 24" DIA. X 13 1/2" HT. X 1/4" THICK (15 GALLON MINIMUM) WITH LOCKABLE LID.
 3. SADDLE LOCATION AS PER TANK MANUFACTURER SPECIFICATIONS.
 4. 2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG - FOR MFG USE ONLY.
 5. WHEN TANK INSULATION PACKAGE IS REQUIRED, EXTEND LENGTH OF FITTINGS TO ACCOUNT FOR INSULATION THICKNESS.
 6. TANKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 2085 SPECIFICATIONS.
 7. QUANTITY, SIZE AND LOCATION OF TANK FITTINGS ARE SHOWN FOR GENERAL REFERENCE. REQUIRED FITTINGS WILL BE PROVIDED BASED ON SITE SPECIFIC REQUIREMENTS.

NEW YORK

STATE OF

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Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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STATE OF NEW YORK

MARTIN J. WESOLOWSKI

REGISTERED PROFESSIONAL ENGINEER

NO. 07434

EXPIRATION DATE: 12/31/2028

CONTRACT:

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

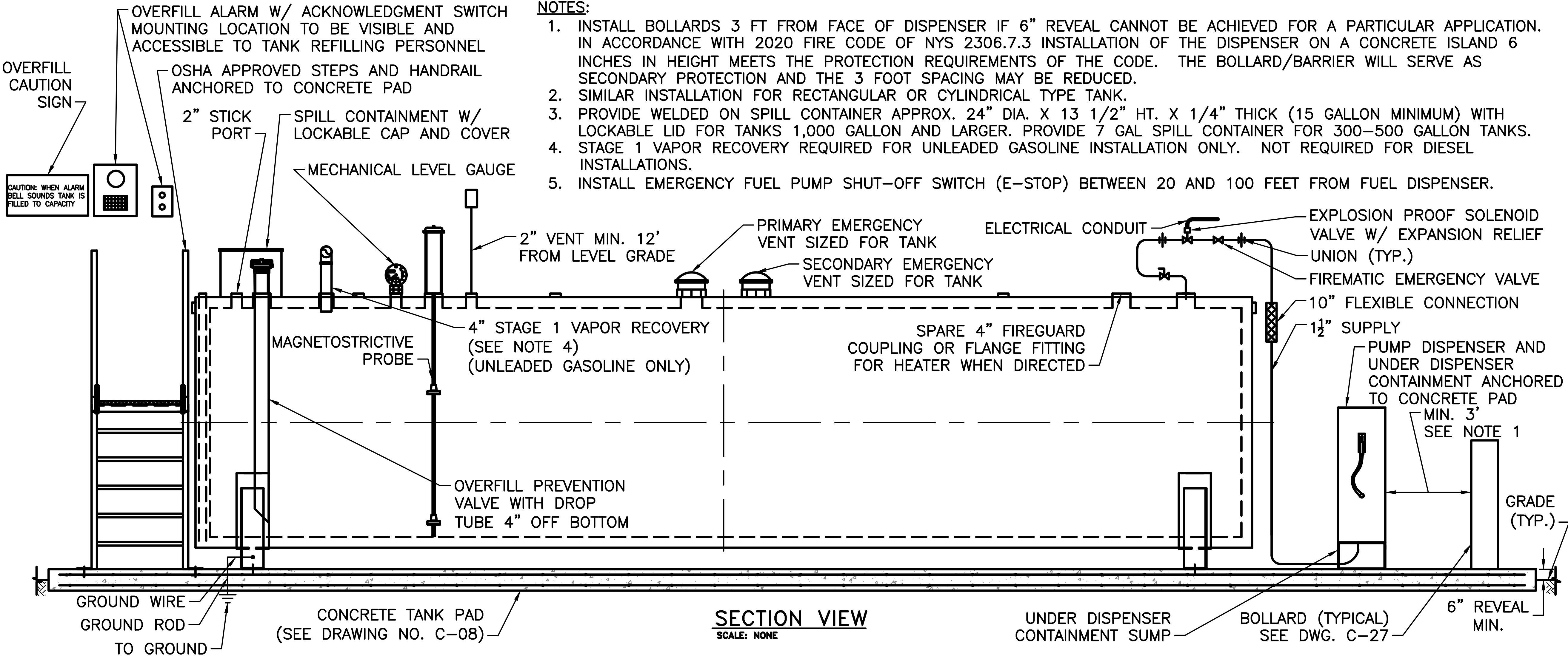
FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

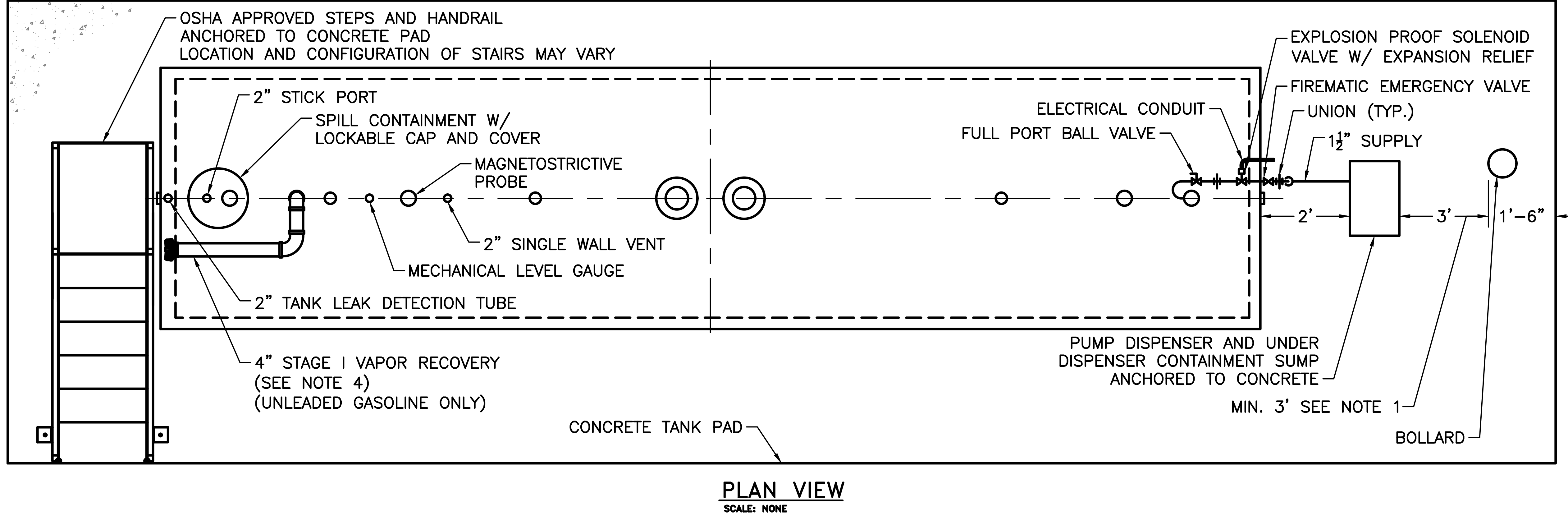
SHEET TITLE:
TYPICAL TYPE DWS-1
ABOVEGROUND MOTOR FUEL
STORAGE SPLIT TANK -
CYLINDRICAL 2,000 GALLON
REFERENCE

DRAWING NUMBER:
C-04

SHEET 6 OF 51



- NOTES:**
1. INSTALL BOLLARDS 3 FT FROM FACE OF DISPENSER IF 6" REVEAL CANNOT BE ACHIEVED FOR A PARTICULAR APPLICATION. IN ACCORDANCE WITH 2020 FIRE CODE OF NYS 2306.7.3 INSTALLATION OF THE DISPENSER ON A CONCRETE ISLAND 6 INCHES IN HEIGHT MEETS THE PROTECTION REQUIREMENTS OF THE CODE. THE BOLLARD/BARRIER WILL SERVE AS SECONDARY PROTECTION AND THE 3 FOOT SPACING MAY BE REDUCED.
 2. SIMILAR INSTALLATION FOR RECTANGULAR OR CYLINDRICAL TYPE TANK.
 3. PROVIDE WELDED ON SPILL CONTAINER APPROX. 24" DIA. X 13 1/2" HT. X 1/4" THICK (15 GALLON MINIMUM) WITH LOCKABLE LID FOR TANKS 1,000 GALLON AND LARGER. PROVIDE 7 GAL SPILL CONTAINER FOR 300-500 GALLON TANKS.
 4. STAGE 1 VAPOR RECOVERY REQUIRED FOR UNLEADED GASOLINE INSTALLATION ONLY. NOT REQUIRED FOR DIESEL INSTALLATIONS.
 5. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH (E-STOP) BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.



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CONSTRUCTION

TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION: CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

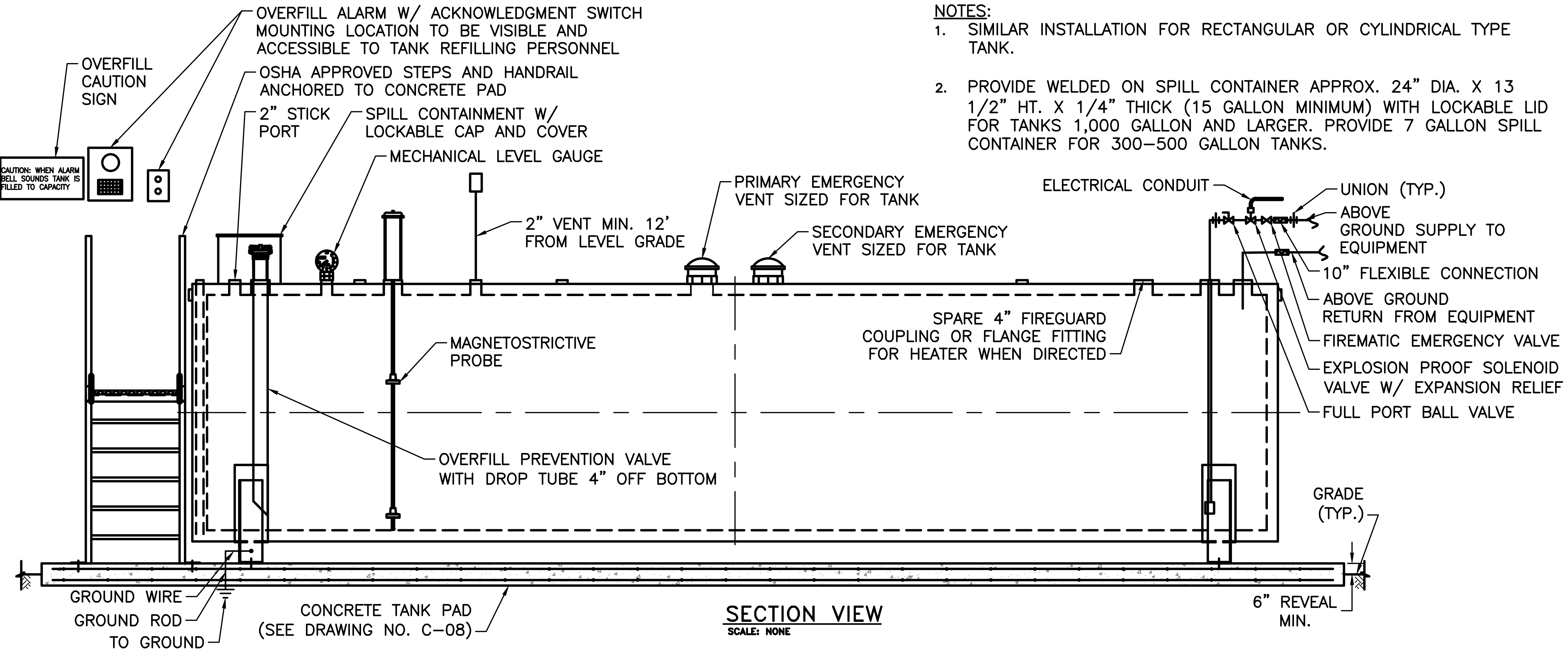
FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

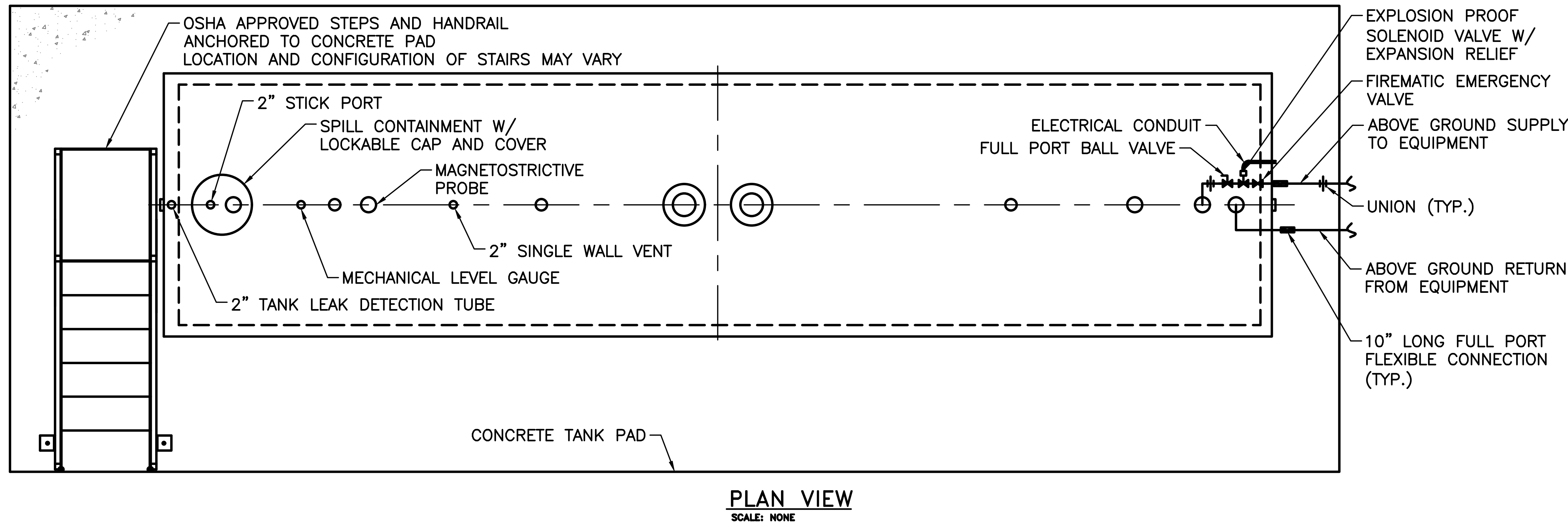
SHEET TITLE:
TYPICAL TYPE DWS-1
ABOVEGROUND MOTOR FUEL
STORAGE TANK WITH
TYPE UG-1 OR D-1
INSTALLATION PACKAGE


DRAWING NUMBER:
C-05

SHEET 7 OF 51



- NOTES:
1. SIMILAR INSTALLATION FOR RECTANGULAR OR CYLINDRICAL TYPE TANK.
 2. PROVIDE WELDED ON SPILL CONTAINER APPROX. 24" DIA. X 13 1/2" HT. X 1/4" THICK (15 GALLON MINIMUM) WITH LOCKABLE LID FOR TANKS 1,000 GALLON AND LARGER. PROVIDE 7 GALLON SPILL CONTAINER FOR 300-500 GALLON TANKS.






NEW YORK
STATE
OF
ENGINEERING

Office of
General Services

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CERTIFICATE OF AUTHORIZATION #: 0017905



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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
REGISTERED PROFESSIONAL ENGINEER
12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 — C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

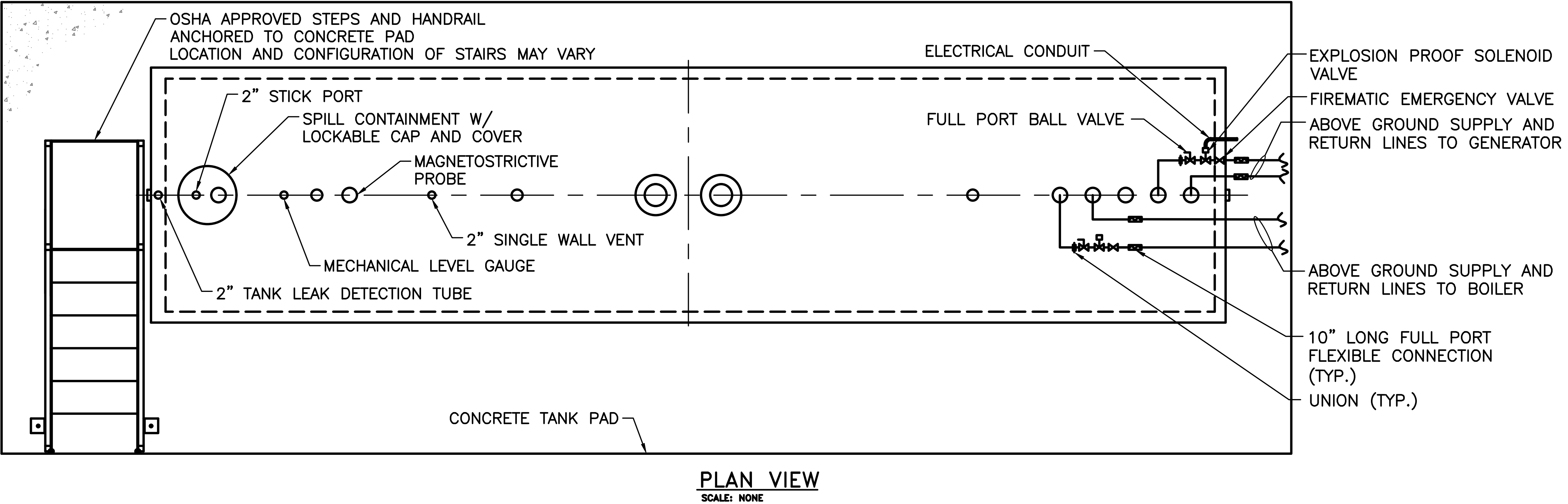
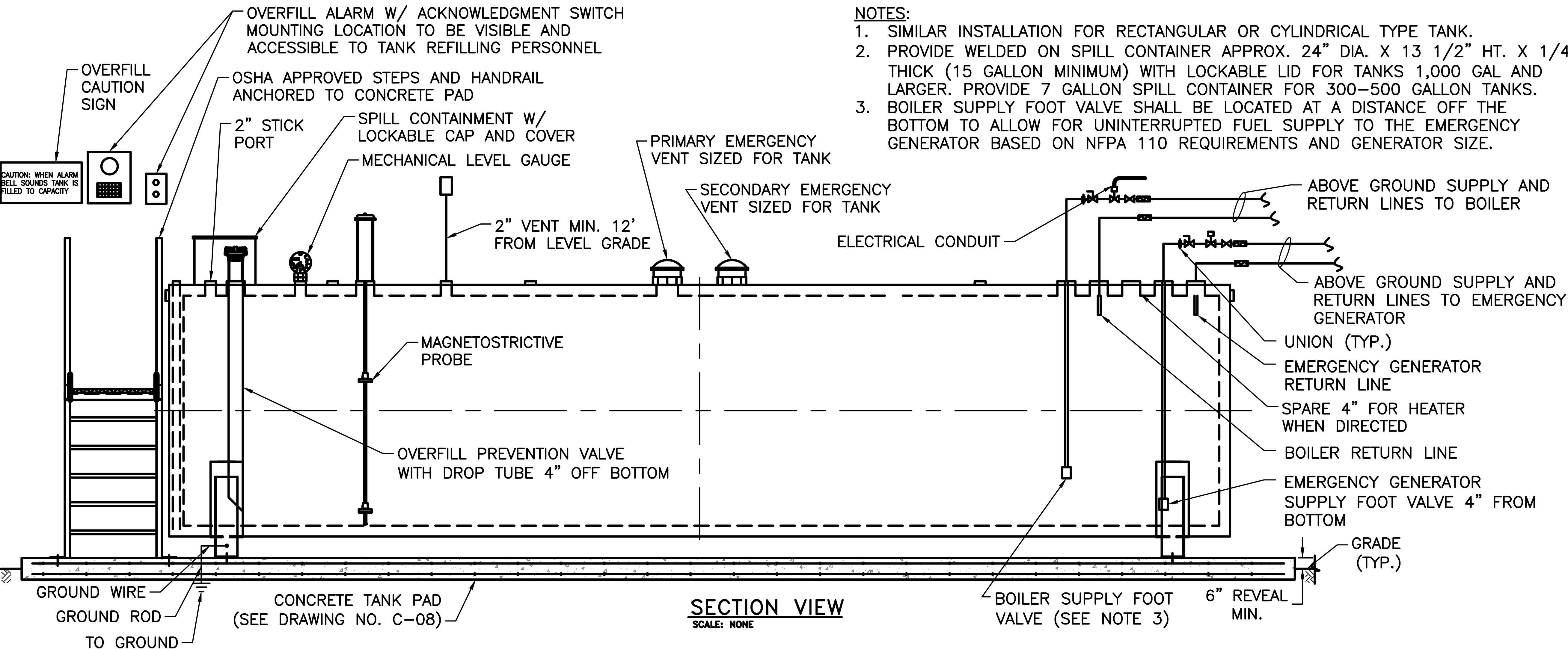
FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

SHEET TITLE:
TYPICAL TYPE DWS-1
ABOVEGROUND FUEL OIL
STORAGE TANK WITH
TYPE FO-1 INSTALLATION
PACKAGE

DRAWING NUMBER:
C-06

SHEET 8 OF 51



Office of General Services

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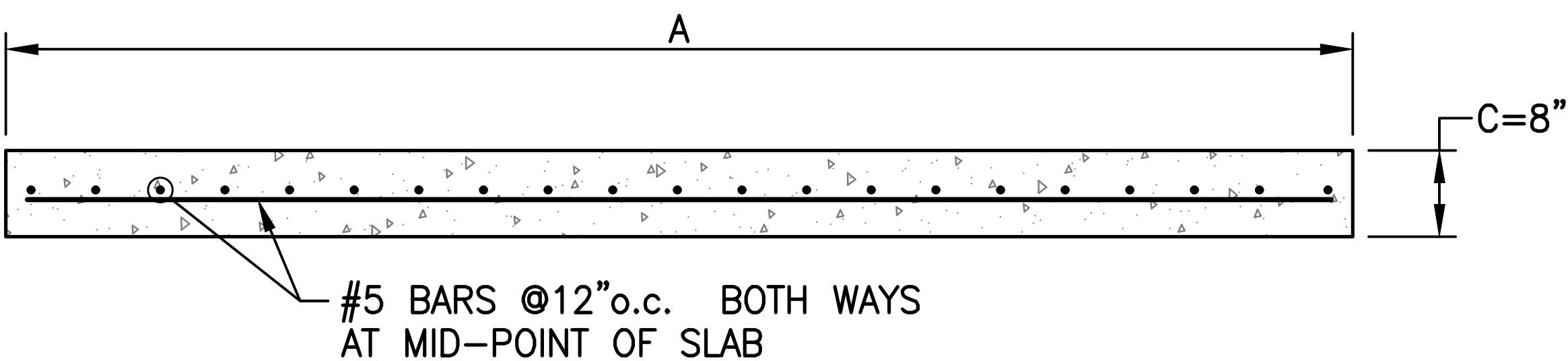
CONTRACT:

CONSTRUCTION

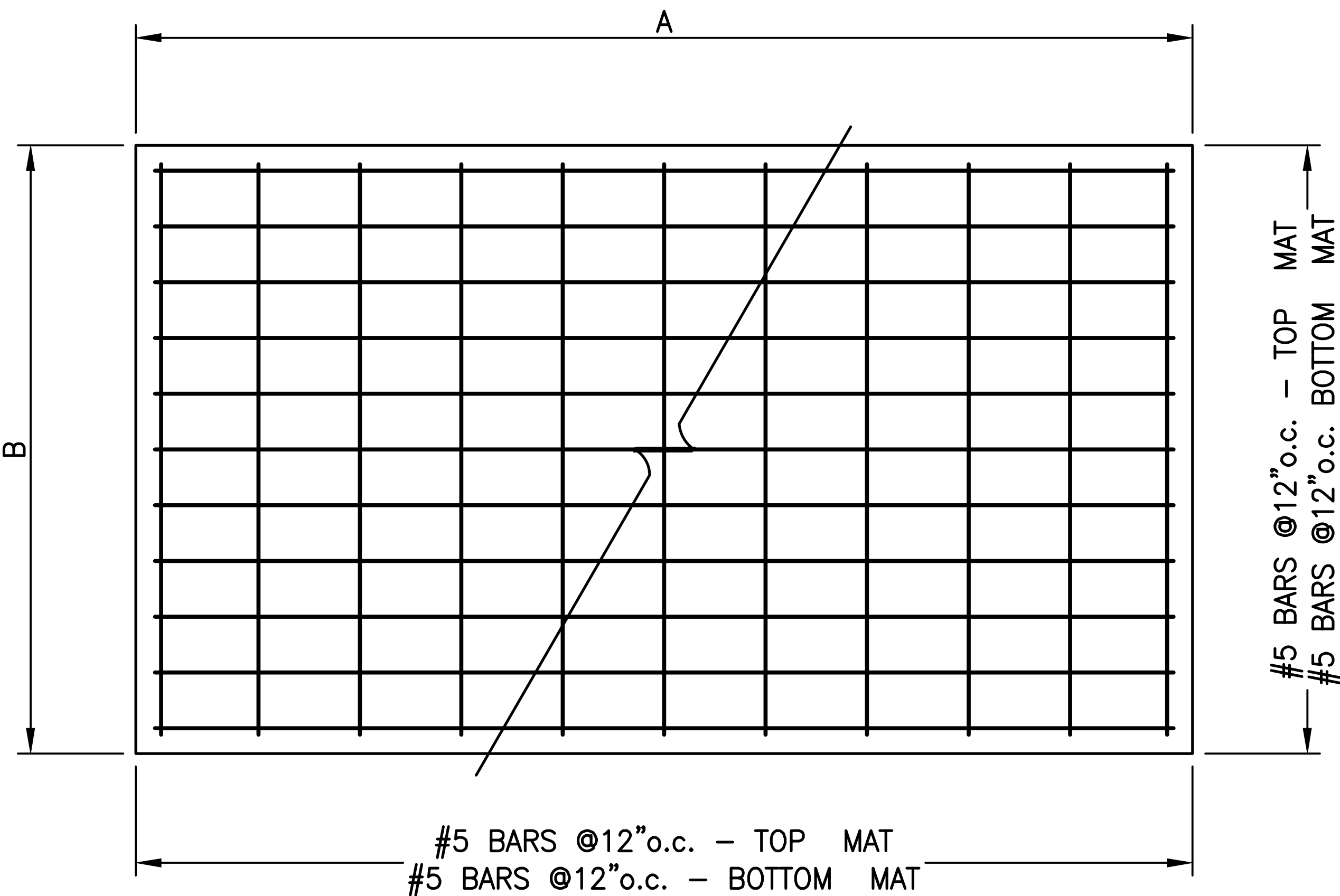
TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION: CENTRAL REGION
VARIOUS FACILITIES

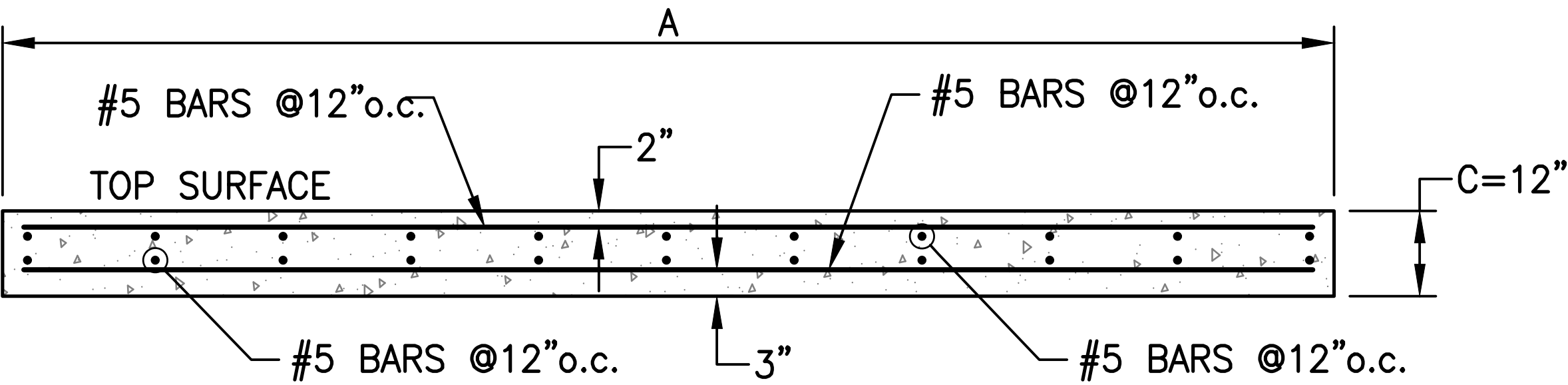
MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675 - C	
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:		
TYPE DWS-1 AST WITH TWO TYPE FO-1 INSTALLATION PACKAGES - BOILER & EMERGENCY GENERATOR		
DRAWING NUMBER:		
C-07		
SHEET 9 OF 51		



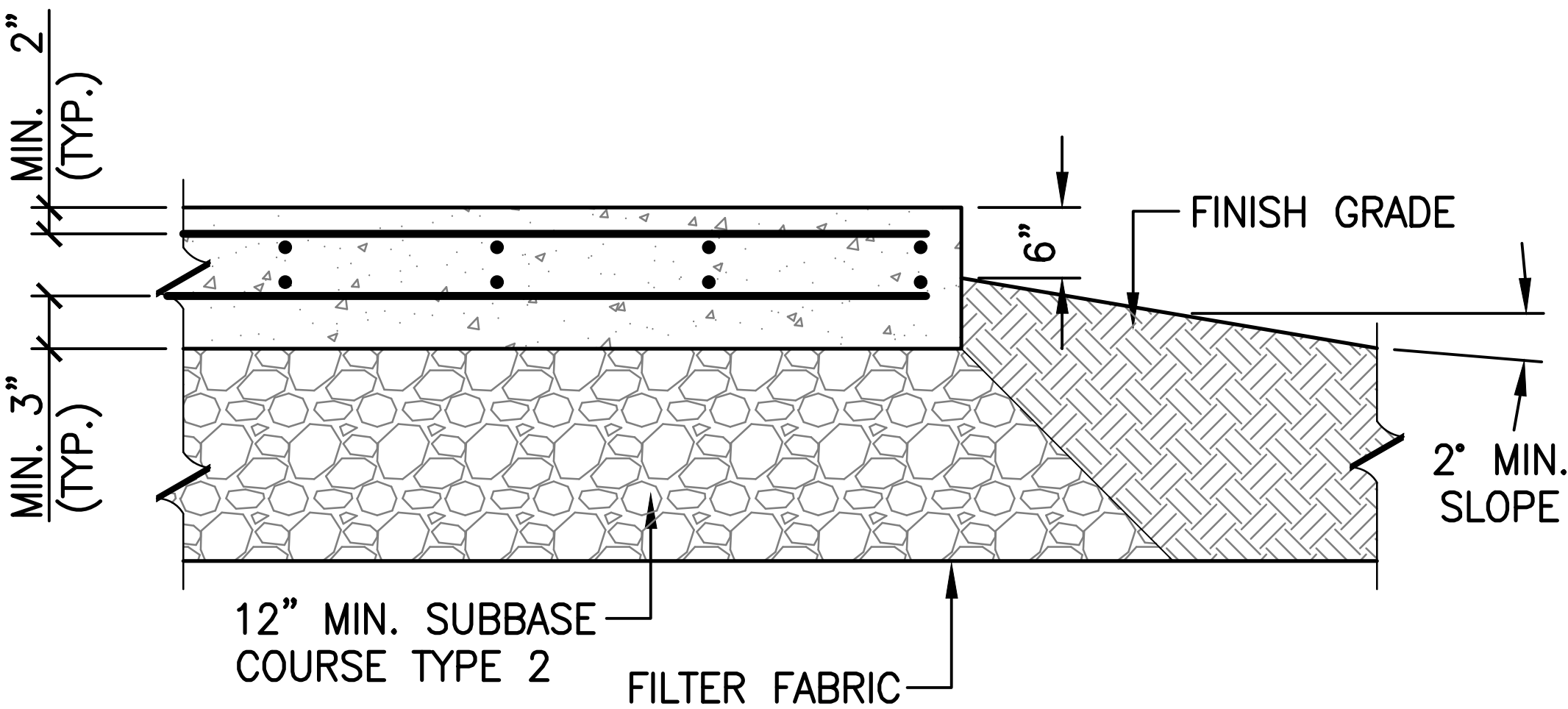
8" CONCRETE PAD ELEVATION
SCALE: NONE



CONCRETE PAD PLAN
SCALE: NONE



12" CONCRETE PAD ELEVATION
SCALE: NONE



TANK PAD FOUNDATION / FILL DETAIL
SCALE: NONE

C = 8" FOR TANKS 250 GALLON THROUGH 2,000 GALLON,
12" FOR TANKS >2,000 GALLON THROUGH 15,000 GALLON,
18" FOR TANKS >15,000 GALLON (SEE NOTE 5)

NOTES:

1. CONCRETE PAD DIMENSIONS SHALL BE DETERMINED BY SITE-SPECIFIC CONDITIONS AND FUEL SYSTEM REQUIREMENTS.
2. PROVIDE A 1/2" CHAMFER AT ALL EXPOSED CORNERS AND EDGES OF CONCRETE SLABS.
3. PROVIDE REBAR WITH CORROSION-RESISTANT EPOXY COATING.
4. SLOPE TANK PAD 1 DEGREE TO PREVENT POOLING OF WATER. PROVIDE SHIM BENEATH TANK ON ONE SIDE TO ENSURE IT IS LEVEL.
5. DESIGN OF TANK SLABS FOR >15,000 GALLON TANKS SHALL BE ON A SITE BY SITE BASIS.
6. FOR STANDARD SLABS, THE LAP LENGTH FOR REBAR SPLICING SHALL BE 40X THE REBAR DIAMETER.

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STATE OF NEW YORK
MARTIN J. WEISBERG
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2028

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

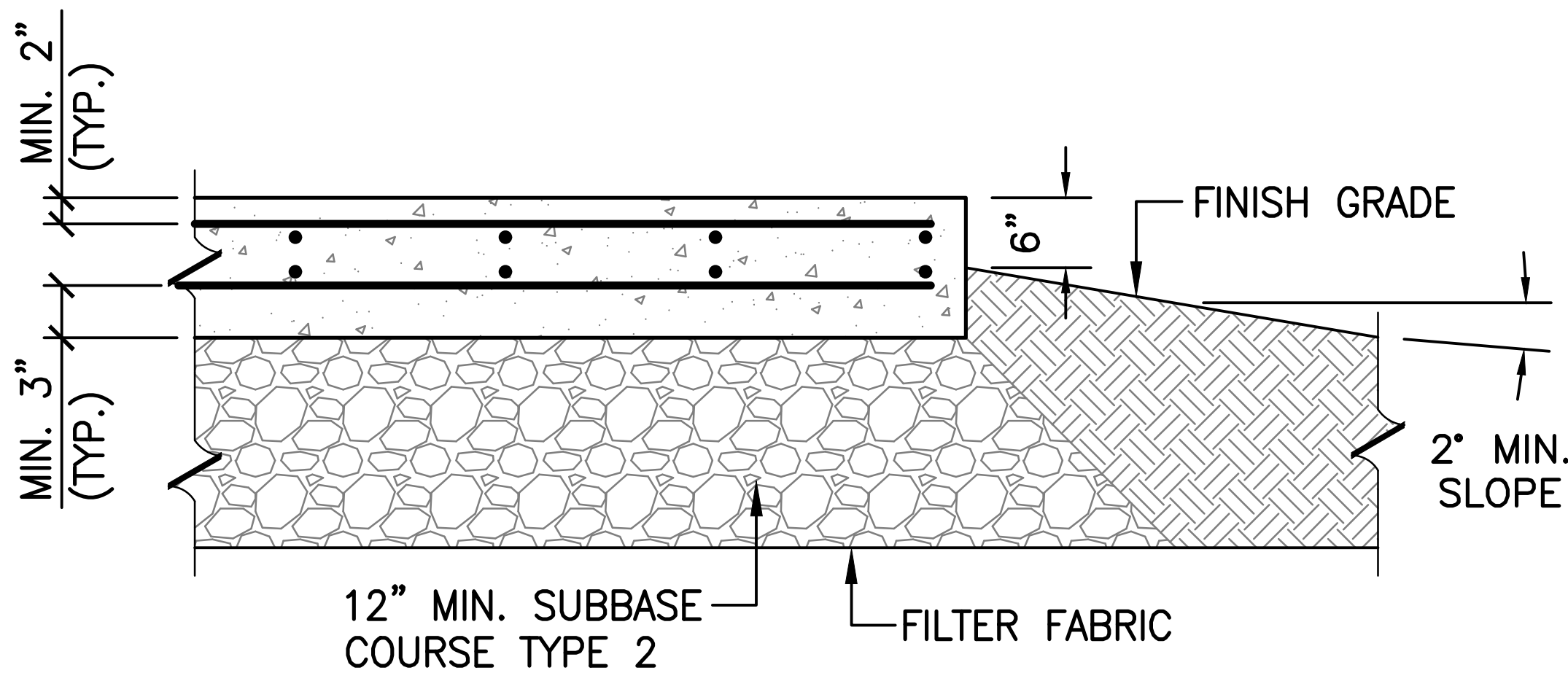
FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

SHEET TITLE:
ABOVEGROUND FUEL
STORAGE TANK
CONCRETE PAD
DETAILS

DRAWING NUMBER:
C-08

SHEET 10 OF 51

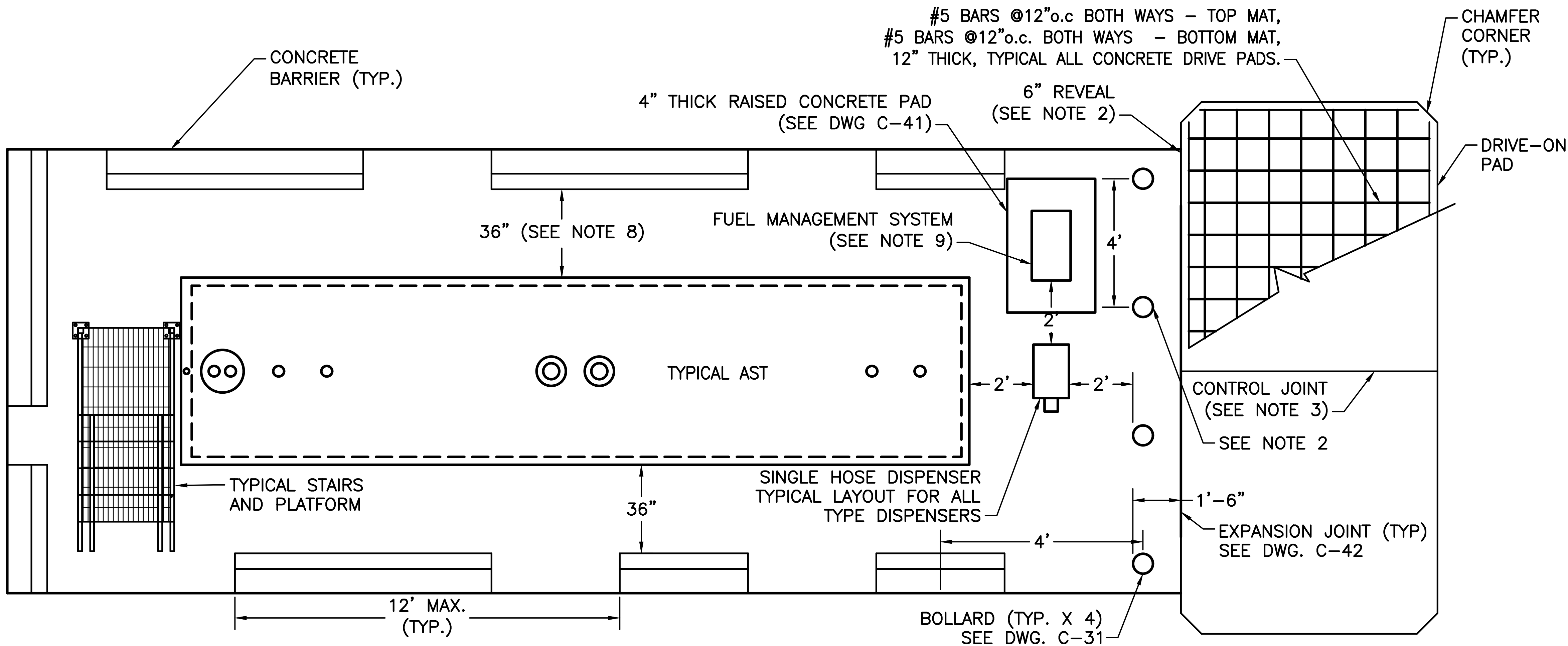


DRIVE-ON PAD FOUNDATION DETAIL

SCALE: NONE

NOTES:

1. SEE DRAWING C-23, C-24, AND C-25 FOR FIRE SUPPRESSION IF REQUIRED.
2. INSTALL BOLLARDS 3 FT FROM FACE OF DISPENSER IF 6" CURB CANNOT BE ACHIEVED FOR A PARTICULAR APPLICATION. IN ACCORDANCE WITH 2020 FIRE CODE OF NYS 2306.7.3 INSTALLATION OF THE DISPENSER ON A CONCRETE ISLAND 6 INCHES IN HEIGHT MEETS THE PROTECTION REQUIREMENTS OF THE CODE. THE BOLLARD/BARRIER WILL SERVE AS SECONDARY PROTECTION AND THE 3 FOOT SPACING MAY BE REDUCED.
3. CONTROL JOINT PLACEMENT AT MAXIMUM OF 20FT ON CENTER OR MIDPOINT OF ALL CONCRETE PADS.
4. PROVIDE A 1/2" CHAMFER AT ALL EXPOSED CORNERS AND EDGES OF CONCRETE SLABS.
5. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH (E-STOP) BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.
6. BOLLARD PROTECTION IN FRONT OF DISPENSERS AND FUEL MANAGEMENT SYSTEM IS REQUIRED.
7. PROVIDE A 20-POUND ABC-RATED (MINIMUM 40-B:C) FIRE EXTINGUISHER NOT MORE THAN 75 FEET FROM STORAGE TANK.
8. PROVIDE MINIMUM 3 FOOT DISTANCE BETWEEN THE TANK AND BOLLARD/BARRIER FOR NON IMPACT RESISTANT TANKS. IN ACCORDANCE WITH 2020 FIRE CODE OF NYS 2306.4 PHYSICAL PROTECTION, BOLLARDS/BARRIERS ARE NOT REQUIRED FOR UL-2085 IMPACT RESISTANT TANKS. THE BOLLARDS/BARRIERS WILL SERVE AS SECONDARY PROTECTION AND THE 3 FOOT DISTANCE MAY BE REDUCED.
9. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA.



CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
1/31/2025	FINAL SUBMISSION	
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:
ABOVEGROUND FUEL STORAGE TANK
DISPENSER & ISLAND
CONCRETE PAD DETAIL

DRAWING NUMBER:
C-09

NEW YORK

STATE OF

DESIGN & CONSTRUCTION

Office of

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CONSULTANT

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STATE OF NEW YORK

MARTIN I. WESOLOWSKI

NO. 07454

REGISTERED PROFESSIONAL ENGINEER

12/31/2028

CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

ABOVEGROUND FUEL STORAGE TANK TYPICAL LAYOUTS

DRAWING NUMBER:

C-10

SHEET

12

OF

51

TYPICAL DUAL DISPENSER/DUAL SIDED FUEL ISLAND
SCALE: NONE

TYPICAL DUAL AST FUEL ISLAND
SCALE: NONE

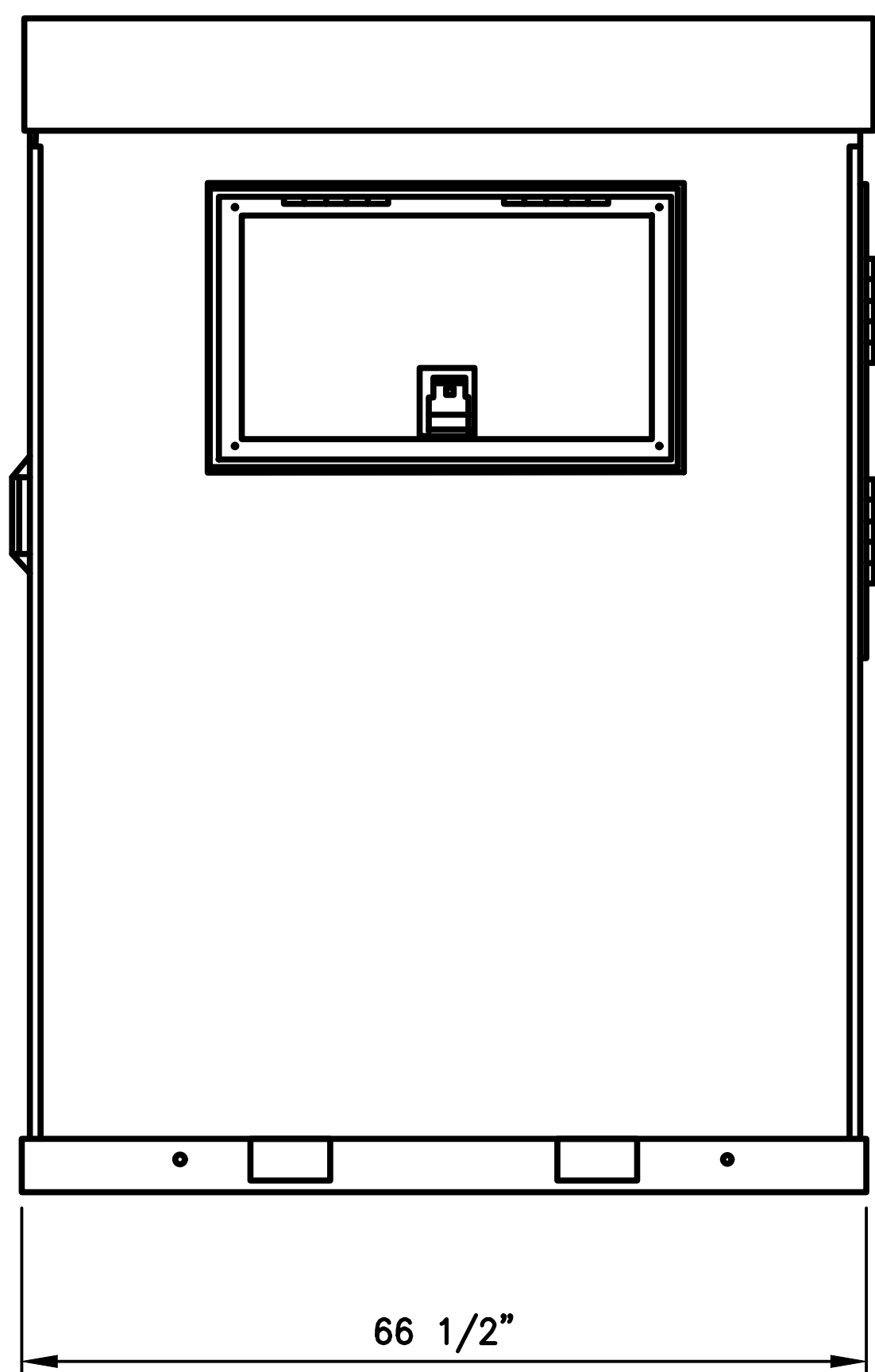
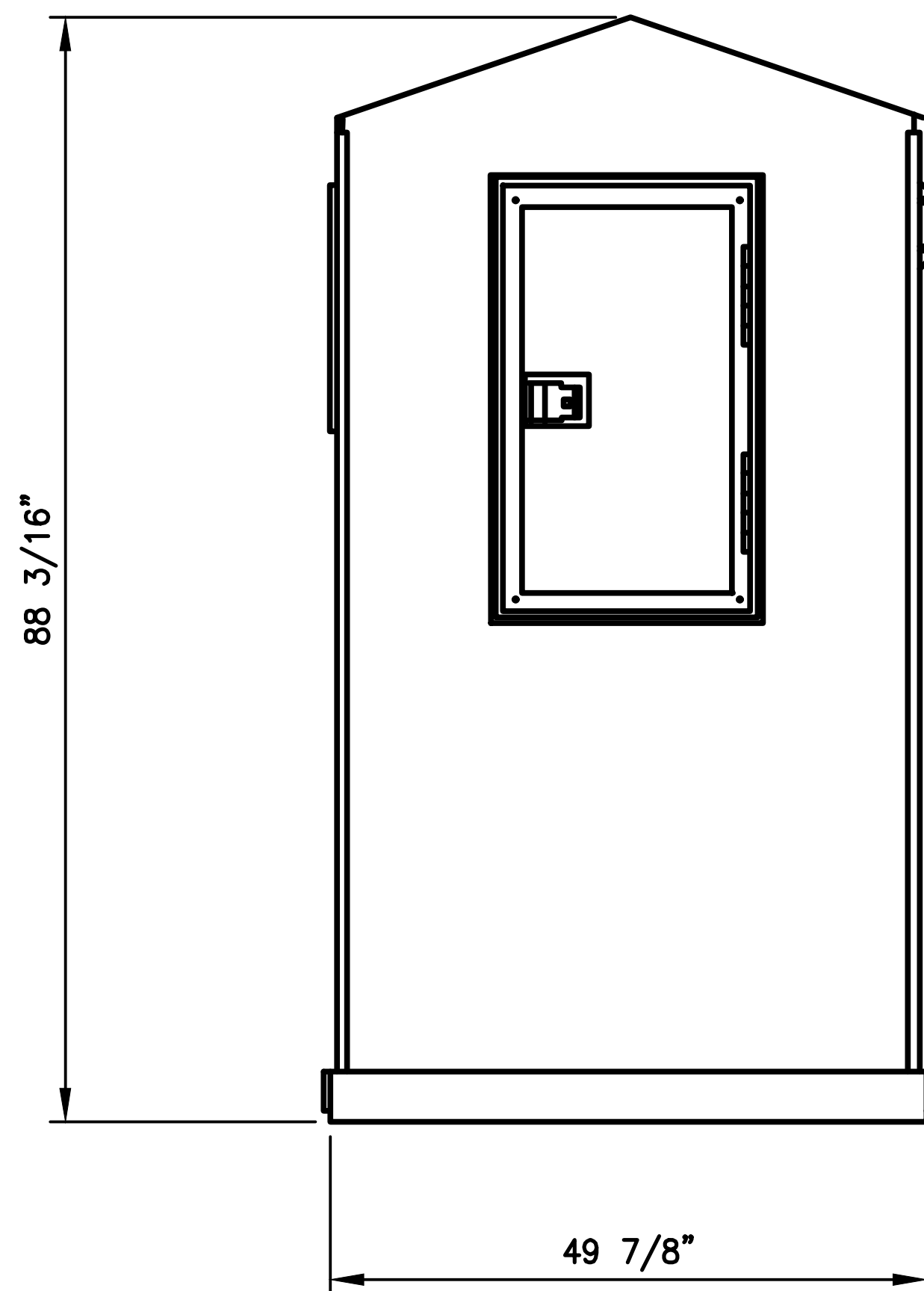
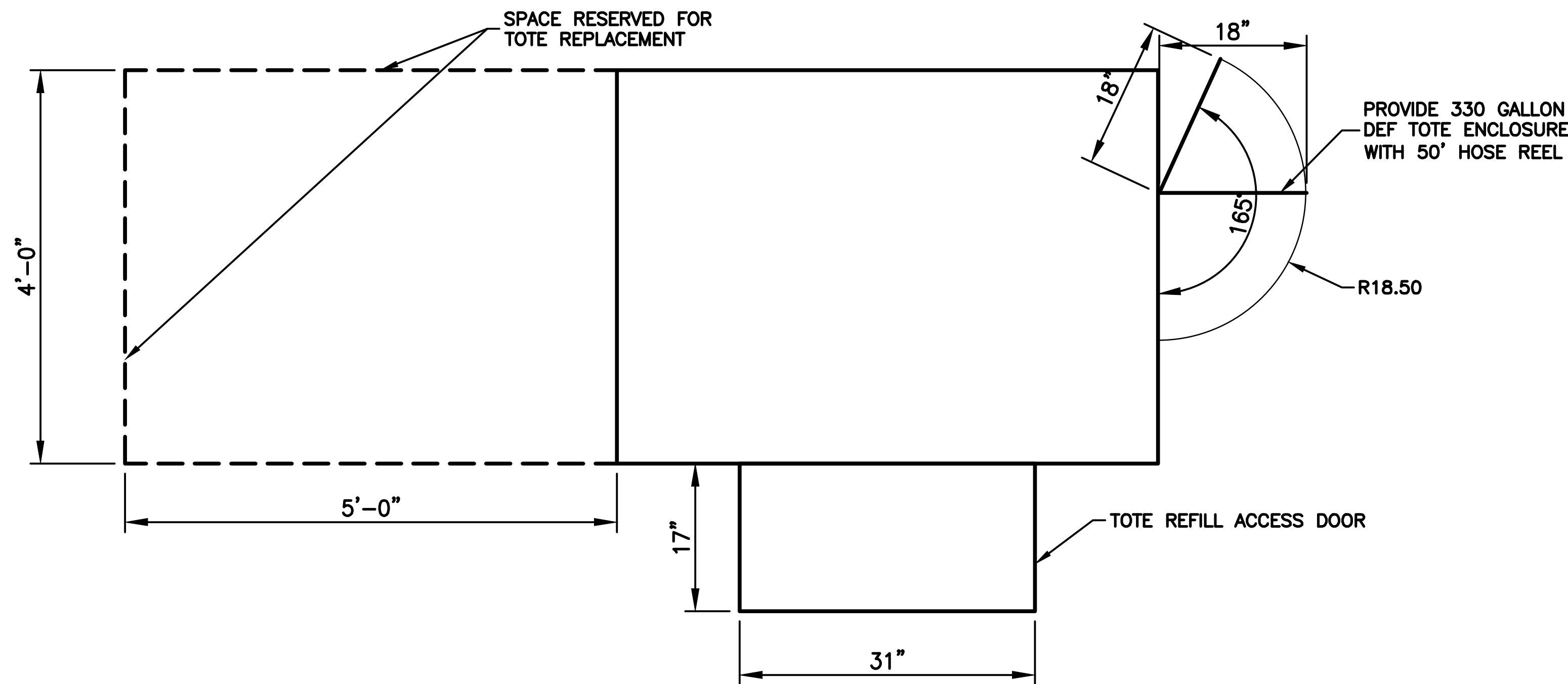
TYPICAL DUAL DISPENSER/SINGLE SIDED FUEL ISLAND
SCALE: NONE

Labels for Dual Dispenser/Dual Sided: REMOTE FILL, TYPICAL STAIRS AND PLATFORM, BOLLARD (TYP.), SINGLE HOSE DISPENSER TYPICAL LAYOUT FOR ALL TYPE DISPENSERS, DRIVE-ON CONCRETE PAD (TYP.), DIESEL EXHAUST FLUID CUBE TANK, FUEL MANAGEMENT SYSTEM, ENCLOSURE, 4" THICK RAISED CONCRETE PAD, TYPICAL AST, CONCRETE BARRIER (TYP.), LIGHT POLE (TYP.), DRIVE-ON CONCRETE PAD.


Labels for Dual AST: SINGLE HOSE DISPENSER TYPICAL LAYOUT FOR ALL TYPE DISPENSERS, 4" THICK CONCRETE PAD, ENCLOSURE, FUEL MANAGEMENT SYSTEM, DIESEL EXHAUST FLUID CUBE TANK, TANK CONCRETE PAD, DRIVE-ON CONCRETE PAD, CONCRETE BARRIER (TYP.), TYPICAL STAIRS AND PLATFORM, BOLLARD (TYP.).

Labels for Dual Dispenser/Single Sided: TANK CONCRETE PAD, AREA RESERVED FOR TOTE REPLACEMENT, DIESEL EXHAUST FLUID TOTE ENCLOSURE, CONCRETE BARRIER (TYP.), TANK CONCRETE PAD, SINGLE HOSE DISPENSER TYPICAL LAYOUT FOR ALL DISPENSERS, DRIVE-ON CONCRETE PAD, ENCLOSURE, 4" THICK RAISED CONCRETE PAD, FUEL MANAGEMENT SYSTEM.

NOTE:
1. LAYOUTS SHOWN ARE TYPICAL. LOCATION OF EQUIPMENT AND SIZE OF PADS VARY BASED ON SITE SPECIFIC REQUIREMENTS.



- DEF TANK SHALL INCLUDE:
1. COLD WEATHER PACKAGE WITH LIGHTED, INSULATED AND HEATED ENCLOSURE.
 2. DISPENSER SETUP WITH 50' HOSE REEL AND HOSE.
 3. 110V TOTE PUMP.
 4. IN-LINE PULSE METER FOR TIE-IN TO FUEL MANAGEMENT SYSTEM.
 5. 330 GALLON TOTE WITH FITTING AND FILL COUPLER.
 6. PRE-WIRED AND PRE-PIPED ENCLOSURE. 120 VOLT 20 AMP SERVICE REQUIRED.




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STATE OF
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Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985




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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
NO. 07454
LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES
12/31/2026

CONTRACT:

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

SHEET TITLE:

330 GALLON DIESEL EXHAUST
FLUID ABOVEGROUND STORAGE
TANK DETAILS

DRAWING NUMBER:

C-11

SHEET

13

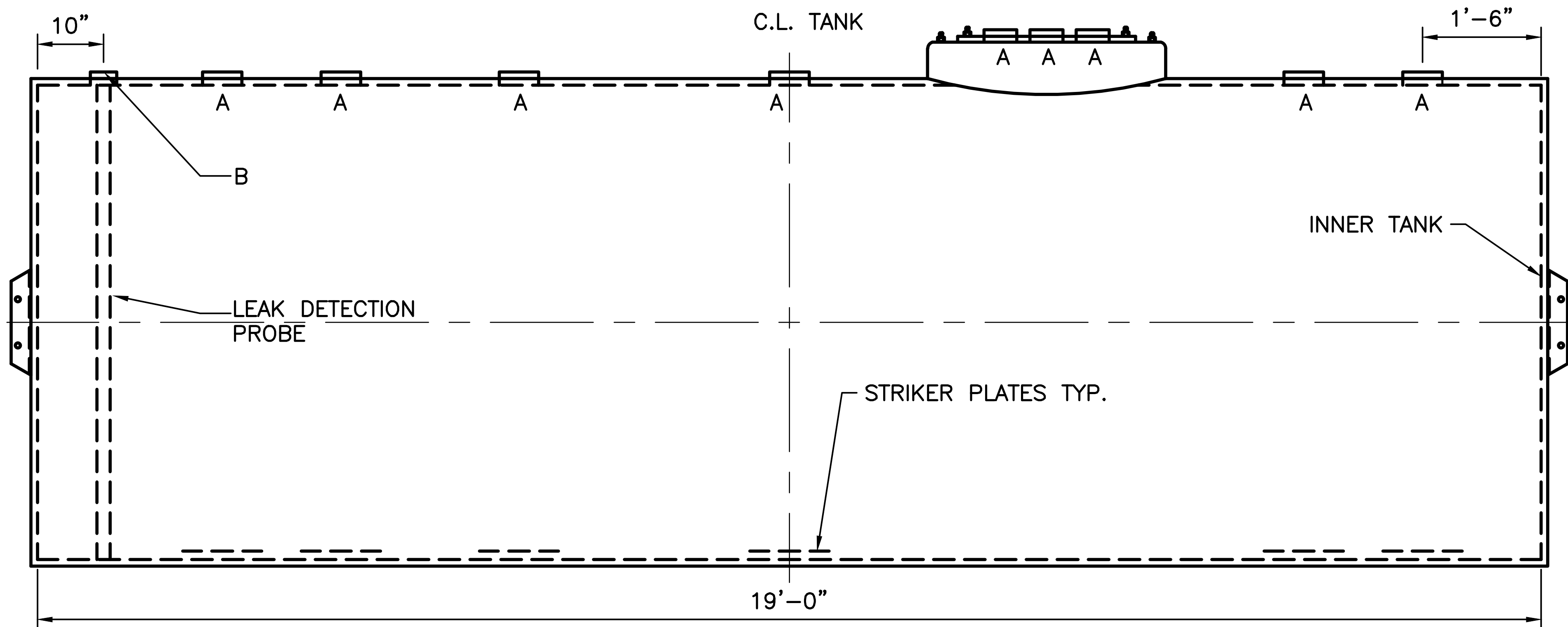
OF

51

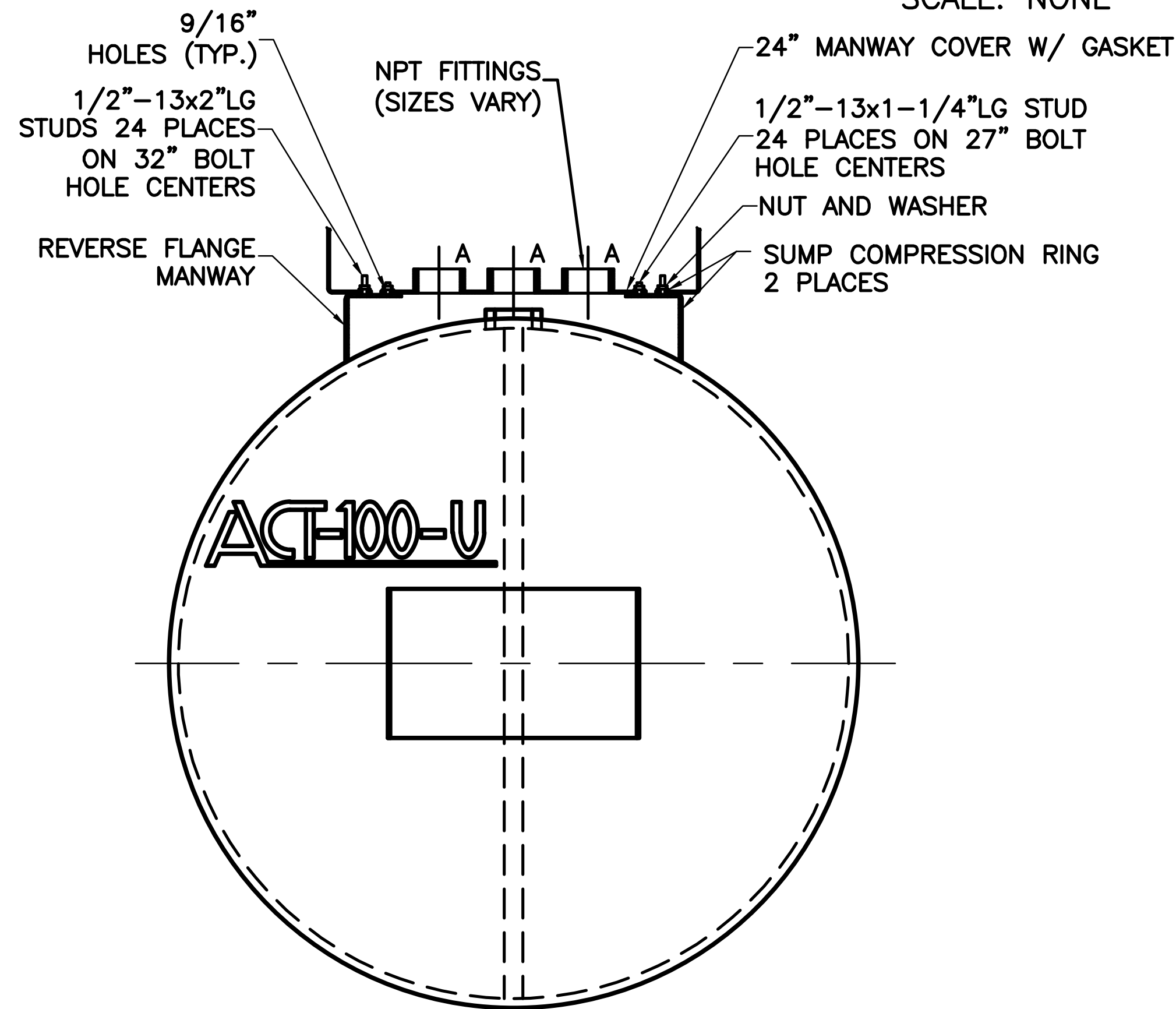
DEF TANK SHALL INCLUDE:

1. COLD WEATHER PACKAGE WITH 500W INTERNAL PROBE HEATER.
2. DISPENSER SETUP WITH 35' HOSE REEL AND HOSE.
3. 6 GPM 120V PUMP.
4. IN-LINE PULSE METER FOR TIE-IN TO FUEL MANAGEMENT SYSTEM.
5. 396 OR 660 GALLON TOTE WITH FITTING AND FILL COUPLER.
6. PRE-WIRED AND PRE-PIPED ENCLOSURE. 120 VOLT 20 AMP SERVICE REQUIRED.

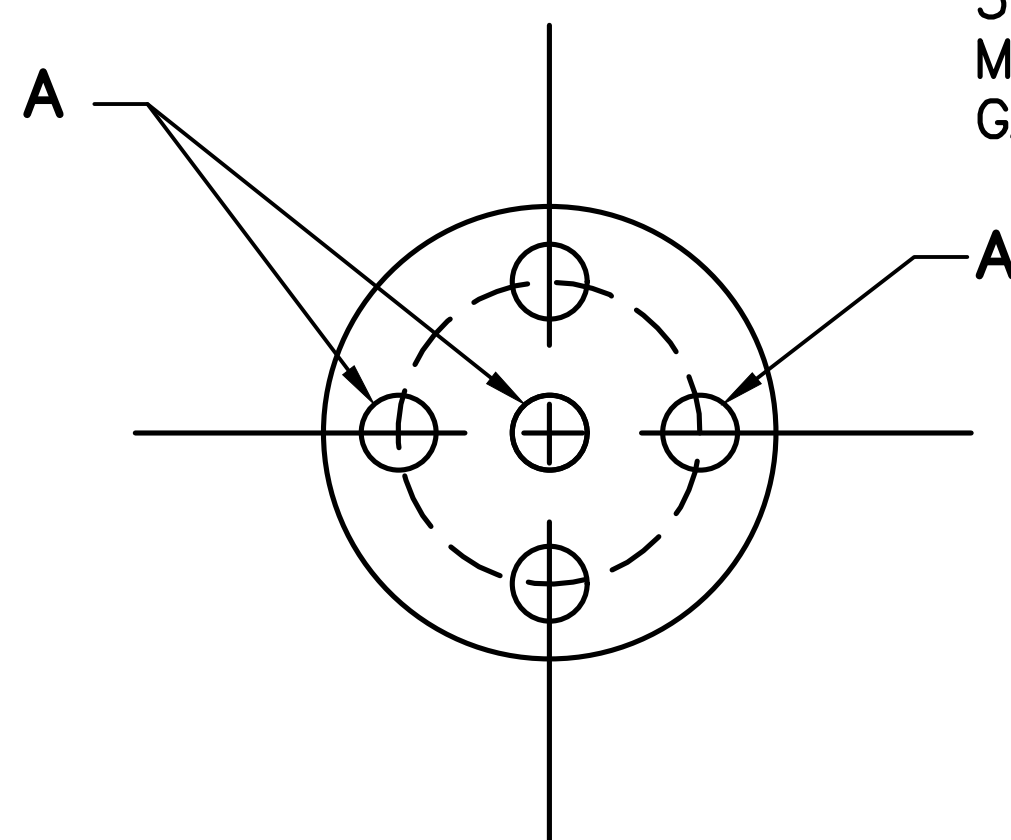




ELEVATION
SCALE: NONE



END VIEW
SCALE: NONE




PLAN VIEW OF 24" MANWAY
SCALE: NONE

- A= 5"Ø NPT WITH 5"x4" DIELECTRIC BUSHING
B= 3"Ø NPT WITH 3"x2" DIELECTRIC BUSHING WITH INTERNAL MONITOR PIPE

NOTES:

1. TANK SHOWN IS TYPICAL FOR ACT-100-U DOUBLE WALL STEEL 4,000 GALLON CAPACITY. THIS 4,000 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 500-8,000 GALLON TANKS. CONSULT WITH MANUFACTURER FOR CAPACITIES OF 500-8,000 GALLONS AND SPECIFIC FITTING ARRANGEMENT.




NEW YORK
STATE OF
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Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985




LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
NO. 07034
LICENSED PROFESSIONAL ENGINEER
REGISTERED 12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

DOUBLE WALL STEEL ACT-100-U
UNDERGROUND FUEL
STORAGE TANK
4,000 GALLON REFERENCE

DRAWING NUMBER:

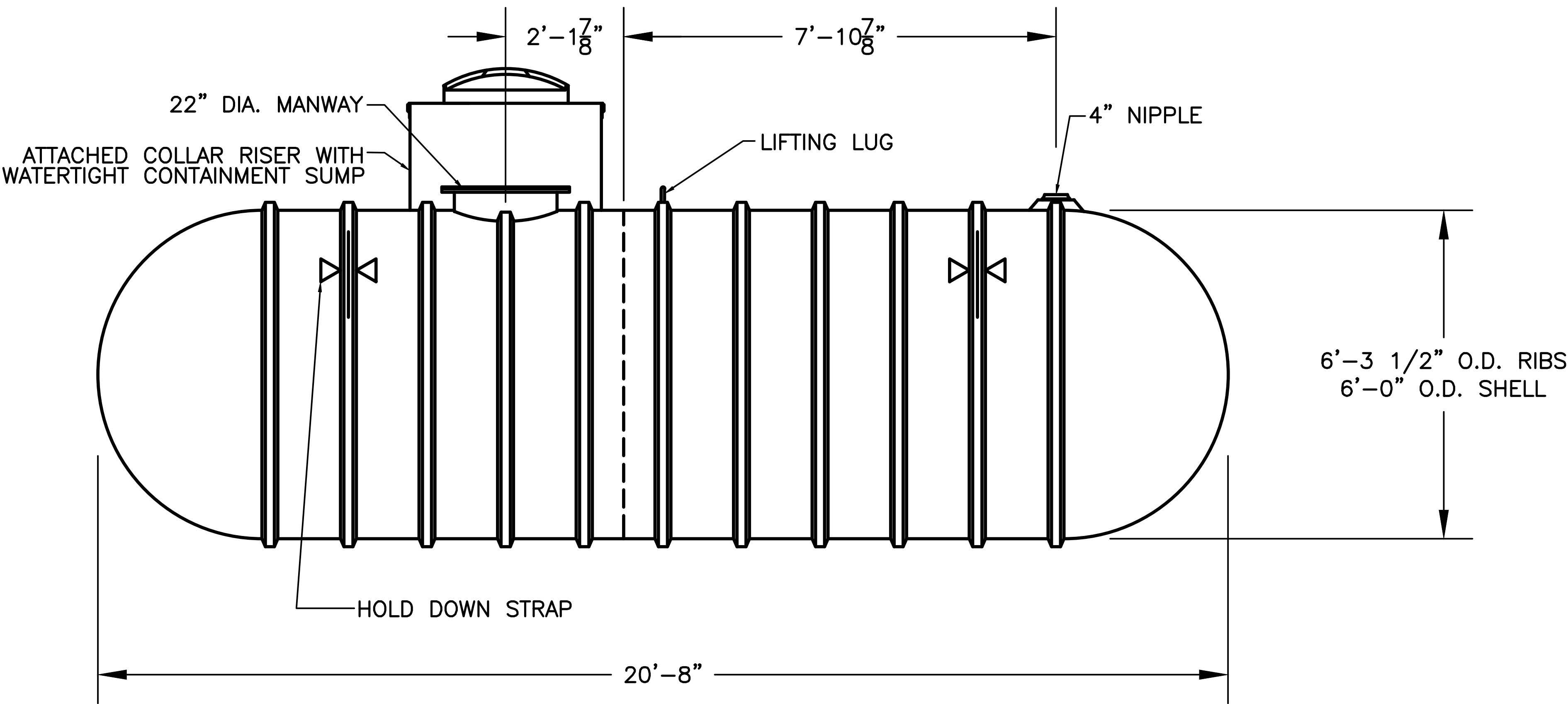
C-13

SHEET

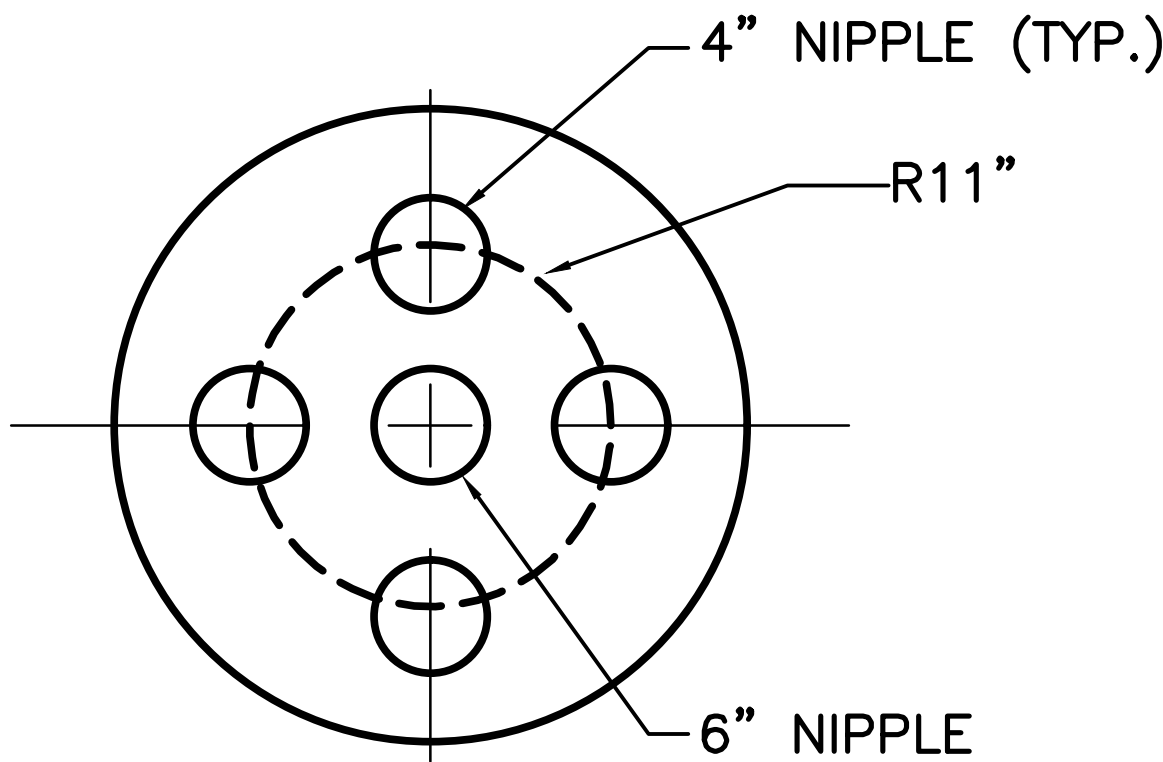
15

OF

51



ELEVATION VIEW
SCALE: NONE



22" MANWAY PLAN VIEW
SCALE: NONE

- NOTE:
1. TANK SHOWN IS TYPICAL FOR DOUBLEWALL FIBERGLASS 4,000 GALLON CAPACITY. THIS 4,000 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 500-8,000 GALLON TANKS. CONSULT WITH MANUFACTURER FOR CAPACITIES OF 500-8,000 GALLONS AND SPECIFIC FITTING ARRANGEMENT.

NEW YORK

STATE OF

CHEMUNTY.

Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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3 Aerial Way, Syosset, New York

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STATE OF NEW YORK

MARTIN J. WESOLOWSKI

NO. 07434

LICENSED PROFESSIONAL ENGINEER

REGISTERED 12/31/2025

CONTRACT:

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

DOUBLE WALL FIBERGLASS
UNDERGROUND FUEL
STORAGE TANK
4,000 GALLON REFERENCE

DRAWING NUMBER:

C-14

SHEET

16

OF

51

PROVIDED EQUIPMENT

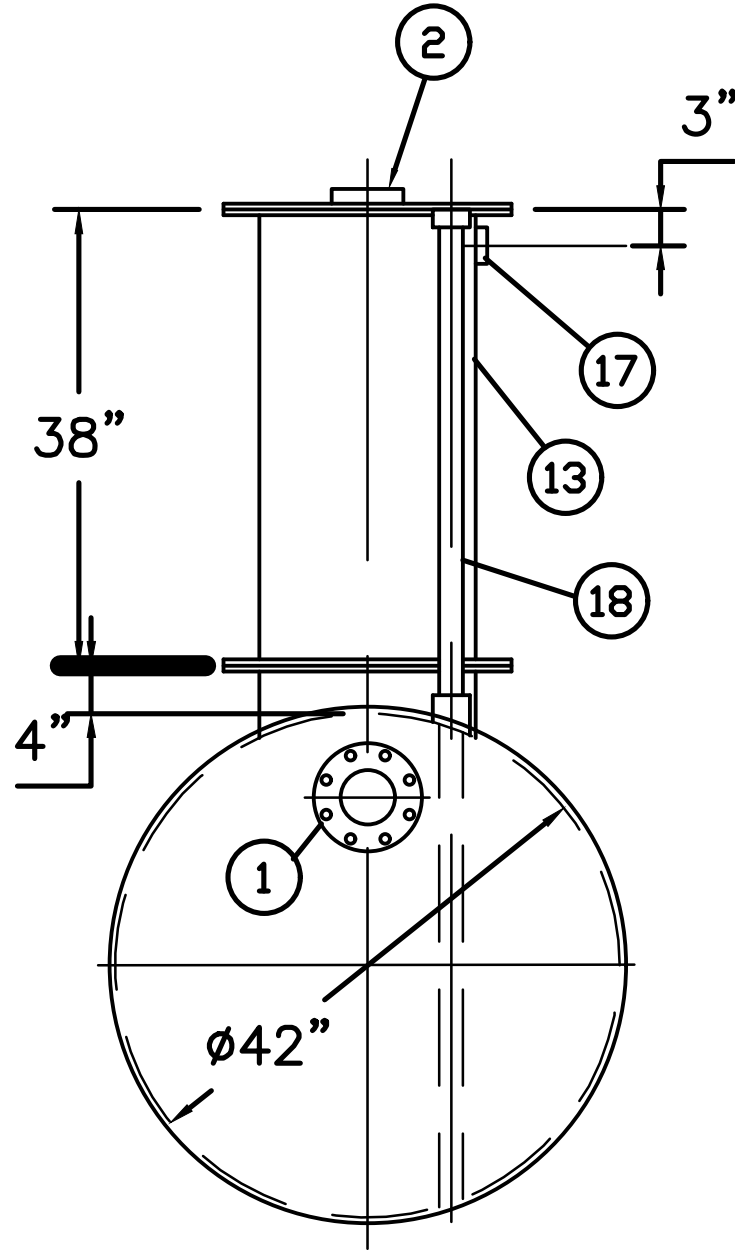
- 1. 150# R.F.S.O. FLANGE W/ 2" FNPT FOR VENT
- 2. 4"Ø FNPT FOR GAUGE WITH PLUG
- 3. VELOCITY HEAD DIFFUSION BAFFLE
- 4. WEAR PLATE
- 5. SEDIMENT CHAMBER
- 6. UNDERFLOW BAFFLE (REMOVABLE)
- 7. SLUDGE BAFFLE
- 8. STRIKER PLATES
- 9. PARALLEL CORRUGATED PLATE COALESCER. CORELLA PVC PLATES (3" PLATE SPACING)
- 10. OIL/WATER SEPARATOR CHAMBER
- 11. 6" THICK PETROSCREEN COALESCER MATERIAL INSTALLED W/ PULL ROD SHIPPED LOOSE
- 12. STEEL OUTLET DOWNCOMER
- 13. 18"Ø MANWAY WITH NEO-CORK GASKETS. BOLT-ON EXTENSION SHIPPED LOOSE
- 14. 4"Ø FNPT FOR OIL PUMP-OUT WITH INTERNAL PVC PIPE INSTALLED & RISER PIPE SHIPPED LOOSE
- 15. 2"Ø FNPT FOR LEVEL SENSOR WITH RISER PIPE SHIPPED LOOSE
- 16. LIFTING LUG
- 17. 2"Ø FNPT FOR VENT
- 18. 2"Ø FNPT FOR LEAK SENSOR WITH RISER PIPE SHIPPED LOOSE

ANCILLARY PROVIDED EQUIPMENT

- (4) 18" NEO-CORK MANWAY GASKETS
- (4) SETS OF NUTS/BOLTS/WASHERS FOR 18" MANWAY

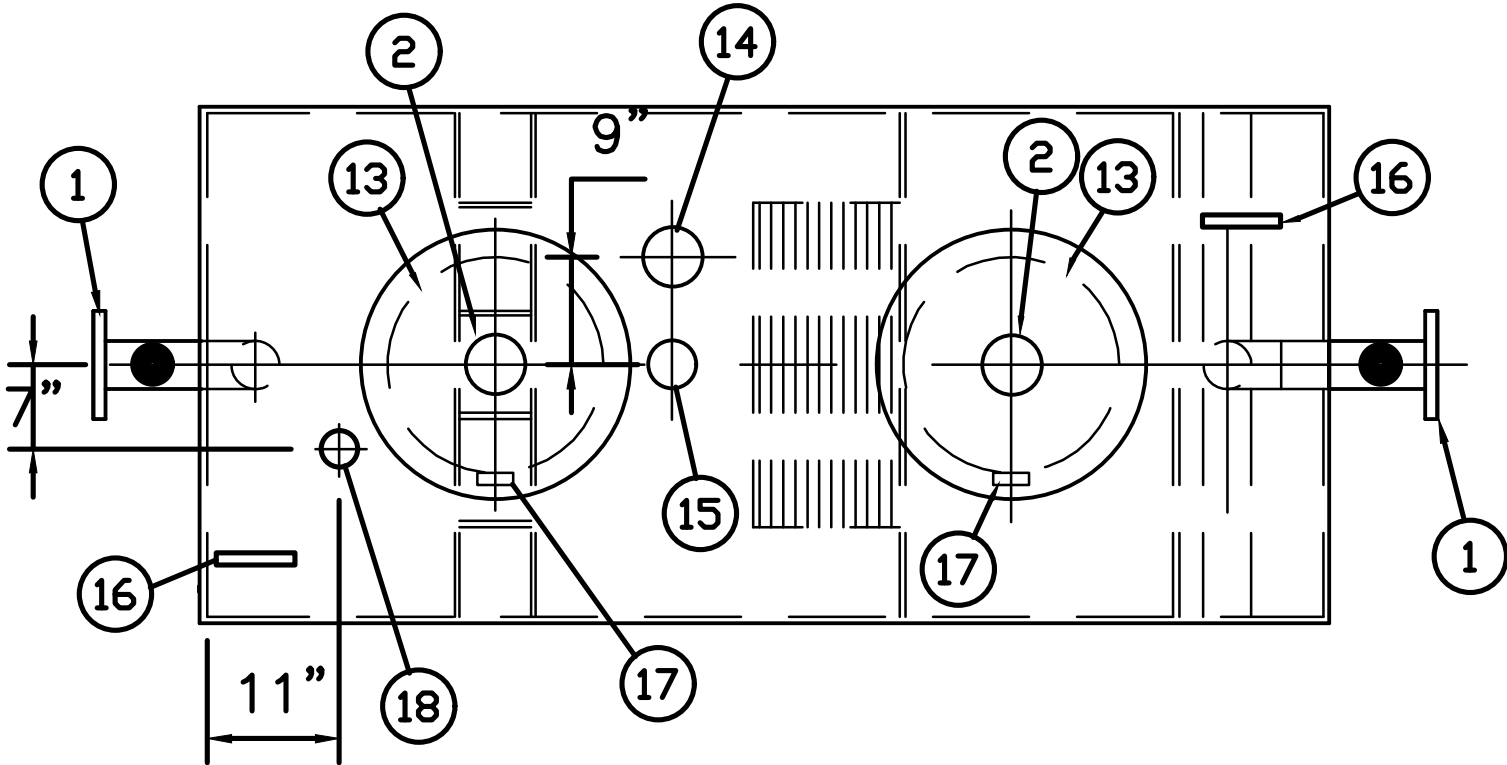
NOTES

- 1. POLYURETHANE HIGHGUARD TANK IS NOT APPROVED FOR THE STORAGE OF HEATED PRODUCTS
- 2. ALL VENT PIPING BY INSTALLER
- 3. 15000 VOLT SPARK TEST PROVIDED AT FACTORY



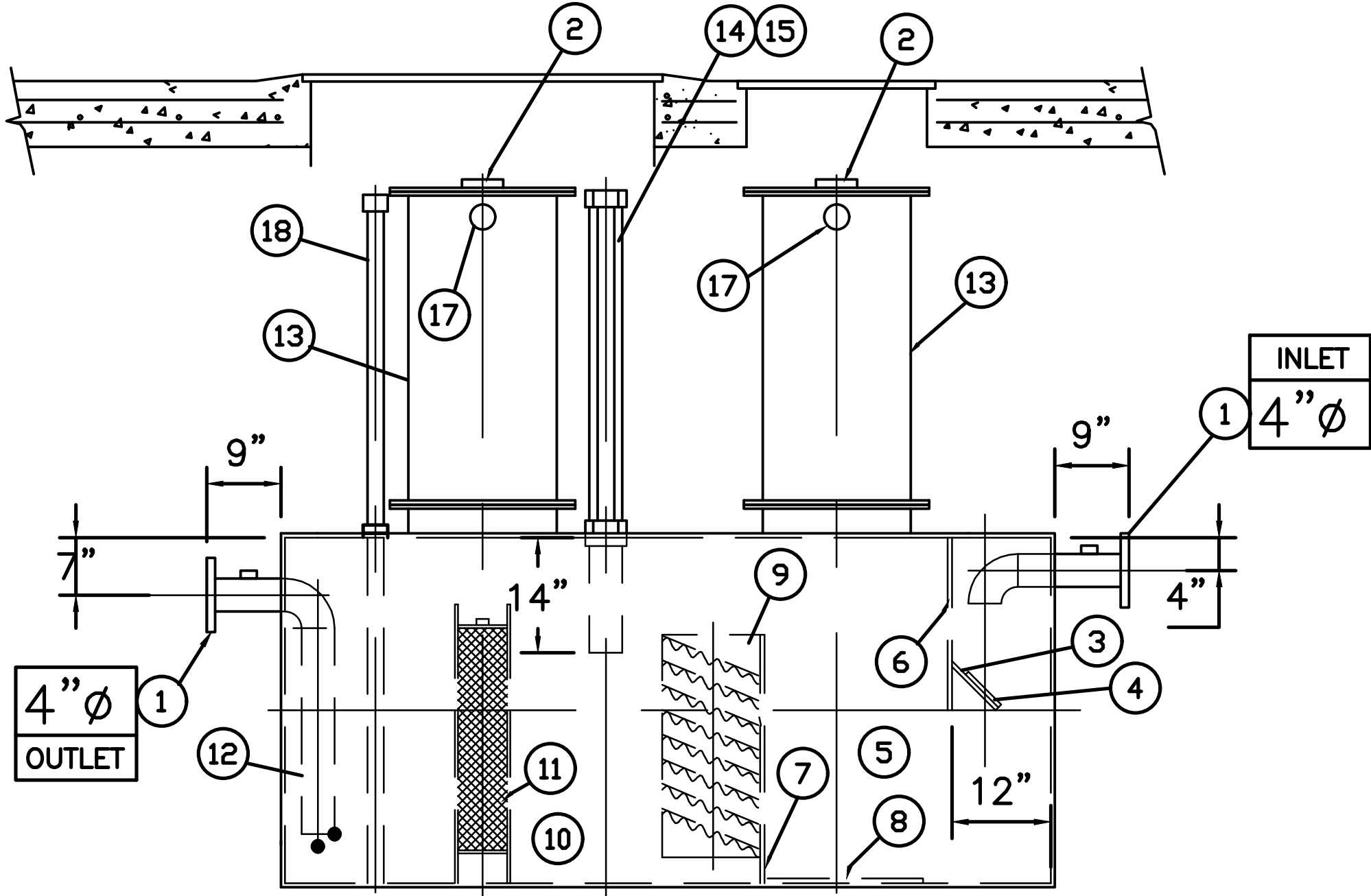
END VIEW

SCALE: NONE



PLAN VIEW

SCALE: NONE



ELEVATION VIEW

SCALE: NONE

NOTE:

- 1. SEPARATOR SHOWN IS TYPICAL FOR JACKETED DOUBLE-WALL STEEL 550-GALLON CAPACITY. CONSULT WITH MANUFACTURER FOR CAPACITIES OTHER THAN 550 GALLONS AND SPECIFIC FITTING AND MANWAY ARRANGEMENTS.

GENERAL SPECIFICATIONS

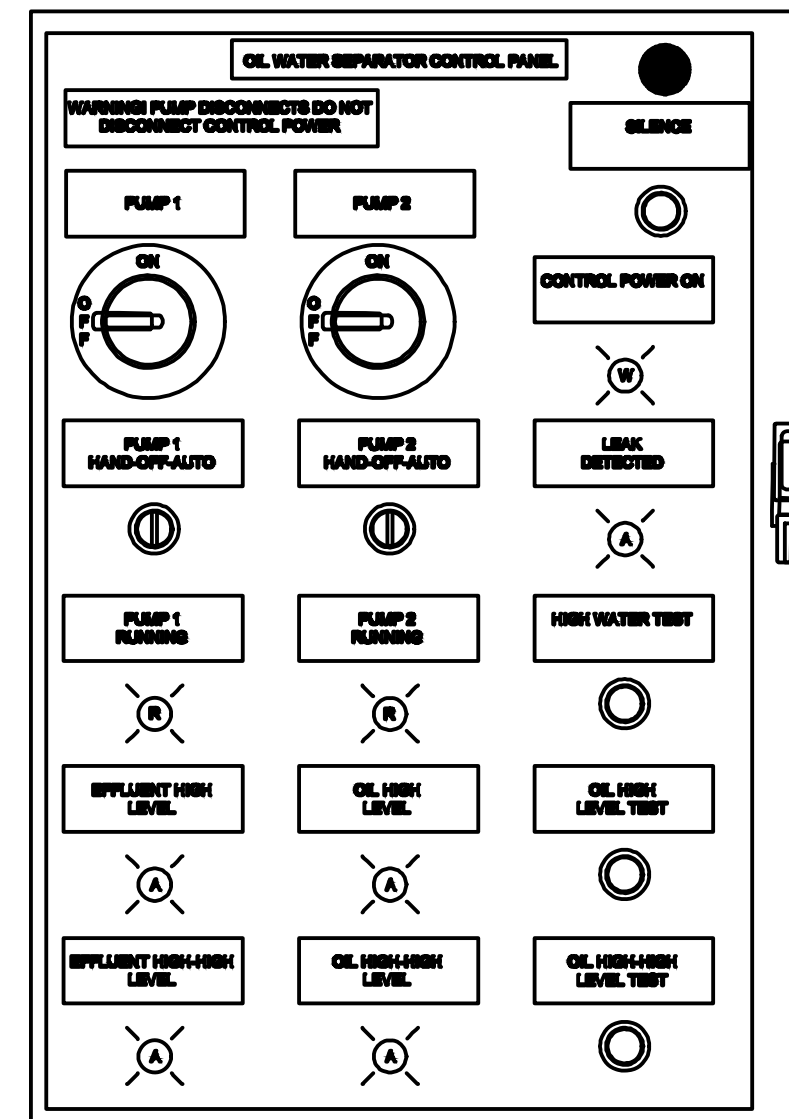
NO. REQ'D: (1)
CAPACITY: 550 GALLONS
TYPE: HTC, HIGHGUARD, DW TYPE I 360
MATERIAL: MILD CARBON STEEL
FLOW RATE: 55 GPM
GAUGE: BASED ON 60" MAX BURIAL
INNER
OUTER
SHELL- 7 GA. 10 GA.
HEADS- 7 GA. 10 GA.
SURFACE PREP:
SSPC NO.6 BLAST ALL EXTERIOR SURFACES

COATING: MATERIAL THICKNESS
EXTERIOR- HIGHGUARD (75 MILS)
INTERIOR- NONE
CONSTRUCTION :
LAP FIT & WELD ALL EXTERIOR SEAMS
OPERATING PRESSURE : ATMOSPHERIC

MARK	DATE	DESCRIPTION
PROJECT NUMBER:	1/31/2025	FINAL SUBMISSION
DESIGNED BY:	47675 - C	
DRAWN BY:	M. GUTMANN	
FIELD CHECK:	A. KELLY	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:
TYPICAL DOUBLE-WALL STEEL
JACKETED 2 COMPARTMENT
OIL/WATER SEPARATOR

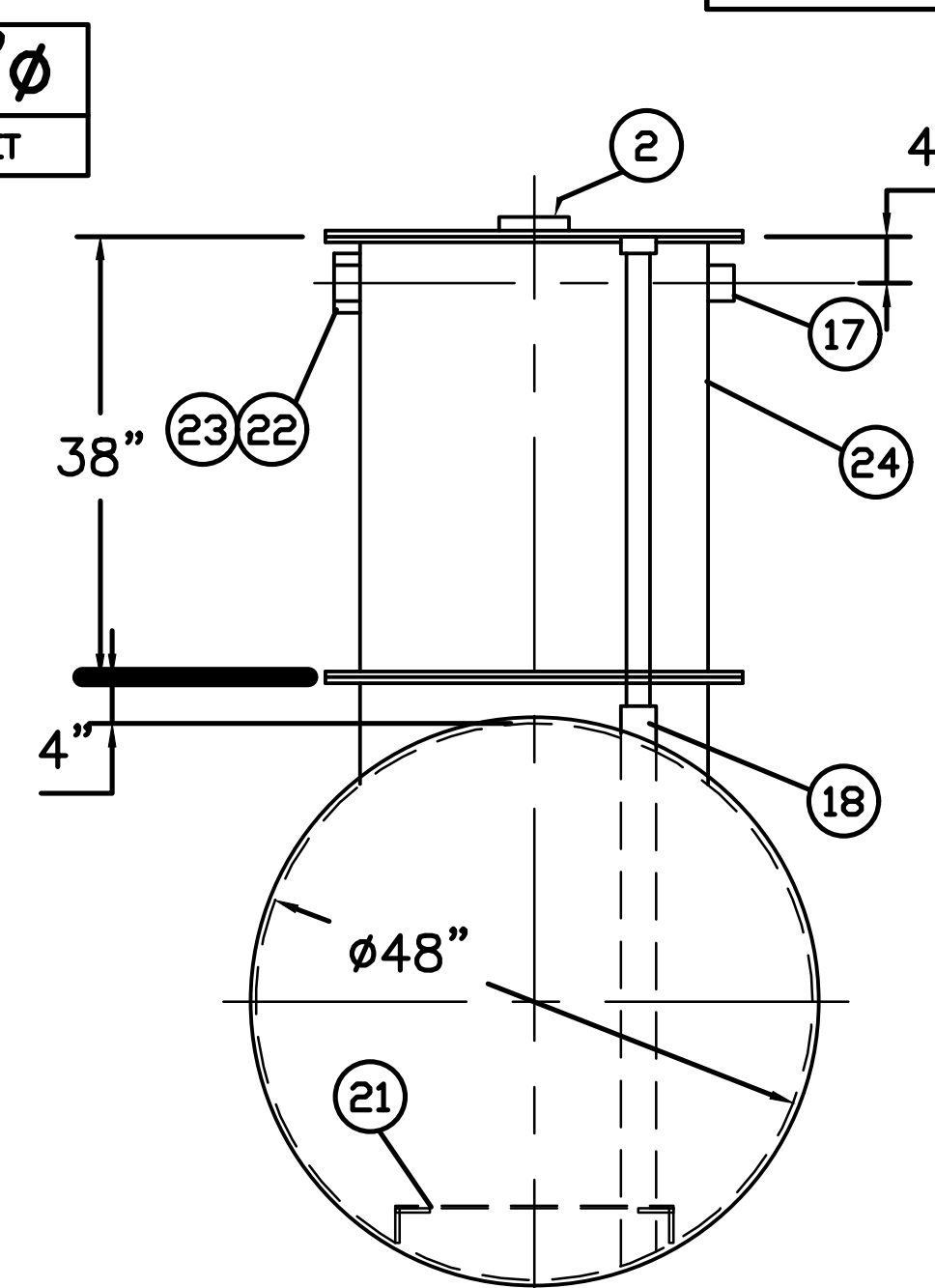
DRAWING NUMBER:
C-15



CONTROL PANEL DETAIL

SCALE: NONE

1. CONTROL PANEL SHOWN IS TYPICAL.
CONTROL PANEL LAYOUT MAY VARY
BASED ON SITE SPECIFIC REQUIREMENTS.



END VIEW
SCALE: NONE

1. 150# R.F.S.O. FLANGE W/ 2" FNPT FOR VENT
2. 4"Ø FNPT FOR GAUGE WITH PLUG
3. VELOCITY HEAD DIFFUSION BAFFLE
4. WEAR PLATE
5. SEDIMENT CHAMBER
6. UNDERFLOW BAFFLE (REMOVABLE)
7. SLUDGE BAFFLE
8. STRIKER PLATES
9. PARALLEL CORRUGATED PLATE COALESCER. CORELLA PVC PLATES (3" PLATE SPACING)
10. OIL/WATER SEPARATOR CHAMBER
11. 6" THICK PETROSCREEN COALESCER MATERIAL INSTALLED W/ PULL ROD SHIPPED LOOSE
12. STEEL TRANSFER PIPE W/ DOWNCOMER
13. 24"Ø MANWAY WITH NEO-CORK GASKETS. BOLT-ON EXTENSION SHIPPED LOOSE
14. 4"Ø FNPT FOR OIL PUMP-OUT WITH INTERNAL PVC PIPE INSTALLED & RISER PIPE SHIPPED LOOSE
15. 2"Ø FNPT FOR LEVEL SENSOR WITH RISER PIPE SHIPPED LOOSE
16. LIFTING LUG
17. 2"Ø FNPT FOR VENT
18. 2"Ø FNPT FOR LEAK SENSOR WITH RISER PIPE SHIPPED LOOSE
19. 7 GA. BULKHEAD
20. EFFLUENT WATER CHAMBER
21. PUMP MOUNT
22. 4" FNPT FOR EFFLUENT PUMP CONDUIT AND WIRING
23. 2" FNPT FOR EFFLUENT LEVEL SENSOR CONDUIT AND WIRING
24. RECTANGULAR MANWAY WITH CLOSED CELL SPONGE GASKET. BOLT-ON EXTENSION SHIPPED LOOSE

(4) 24" NEO-CORK MANWAY GASKETS
(4) SETS OF NUTS/BOLTS/WASHERS FOR 24" MANWAY
(1) 24"x30" CLOSED CELL FOAM MANWAY GASKET
(1) 24"x30" RUBBER RIBBON MANWAY GASKET
(2) SETS OF NUTS/BOLTS/WASHERS FOR 24"x30" MANWAY

1. POLYURETHANE HIGHGUARD TANK IS NOT APPROVED FOR THE STORAGE OF HEATED PRODUCTS
2. ALL VENT PIPING BY INSTALLER
3. 15000 VOLT SPARK TEST PROVIDED AT FACTORY
4. DESIGNER TO PROVIDE EFFLUENT PUMPING INFORMATION FOR PROPER PUMP SIZING & PUMPOUT DESIGN

1. SEPARATOR SHOWN IS TYPICAL FOR JACKETED DOUBLE-WALL STEEL 1,000-GALLON CAPACITY. CONSULT WITH MANUFACTURER FOR CAPACITIES OTHER THAN 1,000 GALLONS AND SPECIFIC FITTING AND MANWAY ARRANGEMENTS.

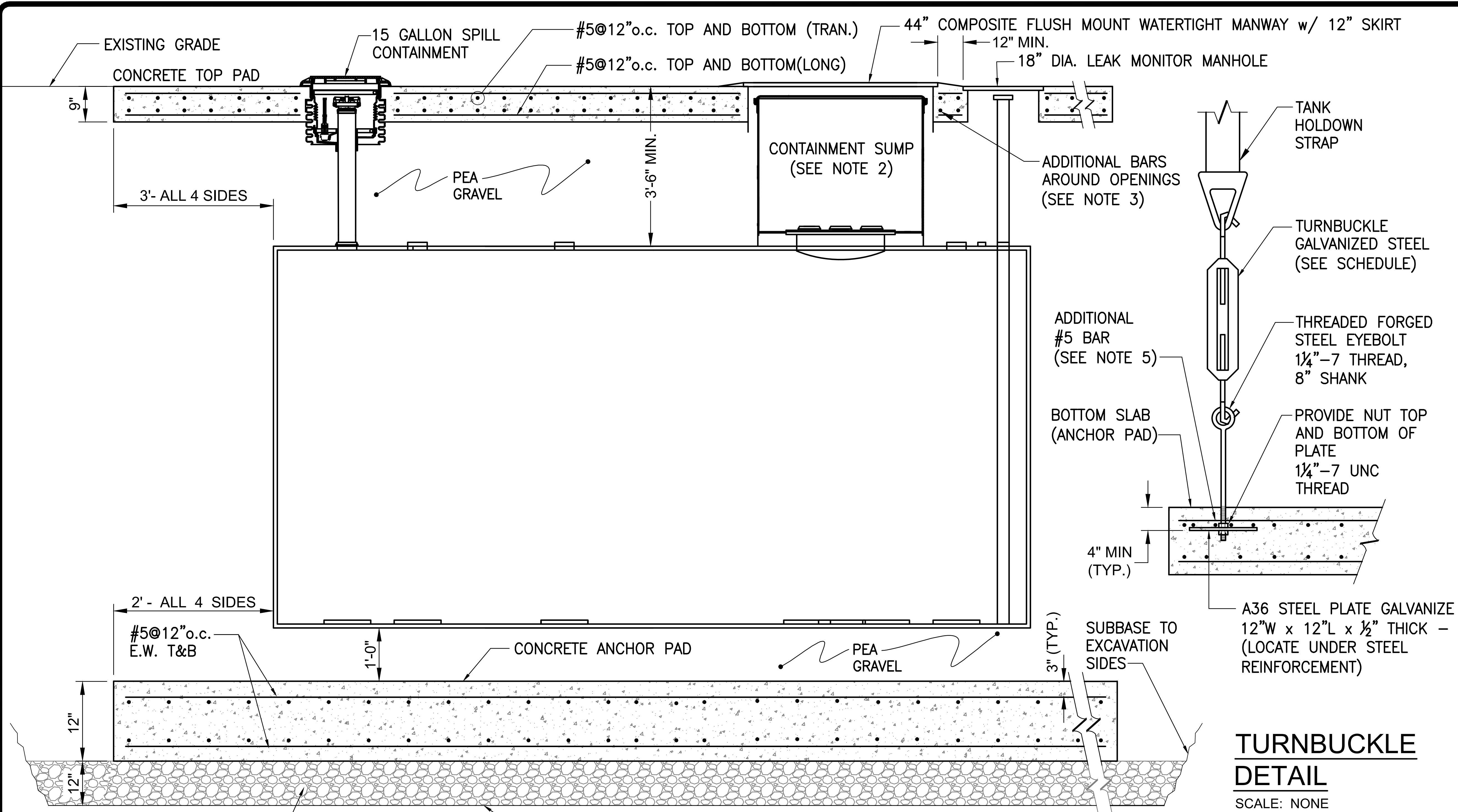
NO. REQ'D: (1)
CAPACITY: 1000 GALLONS
TYPE: HTC-J, HIGHGUARD, DW TYPE I 360
MATERIAL: MILD CARBON STEEL
FLOW RATE: 100 GPM
GAUGE: BASED ON 60" MAX BURIAL

	INNER	OUTER
SHELL	7 GA.	10 GA.
HEADS-	7 GA.	10 GA.

SURFACE PREP:
SSPC NO.6 BLAST ALL EXTERIOR SURFACES
SSPC NO.10 BLAST ALL INTERIOR OF WATER
CHAMBER ONLY

COATING:	MATERIAL	THICKNESS
EXTERIOR—	HIGHGUARD	(75 MILS)
INTERIOR—	POLYURETHANE INTERIOR OF WATER CHAMBER	(15 MILS)

CONSTRUCTION :
LAP FIT & WELD ALL EXTERIOR SEAMS
OPERATING PRESSURE : ATMOSPHERIC



CONCRETE ANCHOR PAD DETAIL

SCALE: NONE

HOLDDOWN STRAP AND TURNBUCKLE SCHEDULE

TANK DIAMETER	STRAP	TURNBUCKLE	HOLE SIZE	"A" DIMENSION
48"	3" X 1/4"	3/4"	7/8"	27"
64"	3" X 1/4"	3/4"	7/8"	35"
72"	3" X 3/8"	1"	1-1/8"	39"
96"	3" X 3/8"	1-1/8"	1-1/4"	51"
120"	4" X 1/2"	1-1/2"	1-5/8"	63"

NOTE: NUMBER OF TANK STRAPS IS AS PER TANK MANUFACTURER RECOMMENDATIONS.

NOTES:

1. TANK DRAWING IS A SCHEMATIC DIAGRAM ONLY, AND CAN BE FIBERGLASS OR STEEL AS DIRECTED.
2. 45" SUMPS FOR JACKETED SECONDARY CONTAINMENT TANK AND 42" SUMPS FOR FIBERGLASS TANKS.
3. PROVIDE ADDITIONAL #5 BAR TO FRAME AROUND SLAB PENETRATIONS. EXTEND BAR 2'-0" PAST PENETRATIONS.
4. FOR EXCAVATIONS SUBJECT TO GROUNDWATER INFILTRATION THE CONTRACTOR SHALL INSTALL FILTER FABRIC ON EXCAVATION BOTTOM AND ALL SIDEWALLS UP TO A MINIMUM OF TWO FEET BELOW GRADE SURFACE.
5. PROVIDE ADDITIONAL #5 BAR MINIMUM 3 FEET LONG ON EACH SIDE OF ANCHOR PLATE.

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STATE OF
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Office of
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CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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STATE OF NEW YORK
MARTIN I. WEISOWSKI
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2026

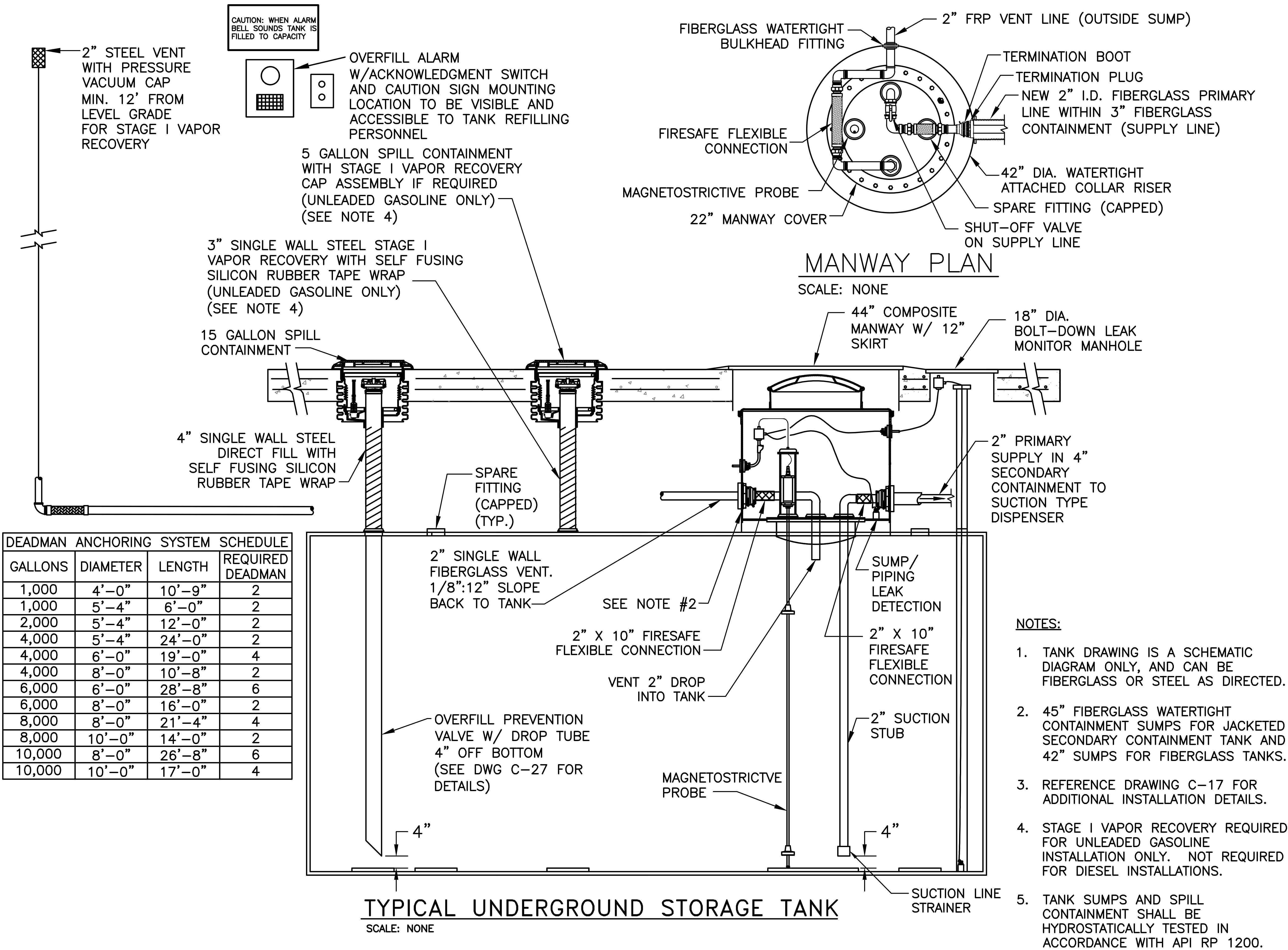
CONTRACT


CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:	TYPICAL UNDERGROUND STORAGE TANK CONCRETE ANCHOR PAD	
DRAWING NUMBER:	C-17	
SHEET	19	OF 51






NEW YORK
STATE OF
CONSTITUTION

Office of
General Services

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CERTIFICATE OF AUTHORIZATION #: 0017985




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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
NO. 07034
LICENSED PROFESSIONAL ENGINEER
12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
1/31/2025	FINAL SUBMISSION	

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

SHEET TITLE:

TYPICAL UNDERGROUND FUEL
STORAGE TANK UNLEADED
GASOLINE OR DIESEL MOTOR
FUEL INSTALLATION PACKAGE

DRAWING NUMBER:


C-18

SHEET

20

OF

51




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CERTIFICATE OF AUTHORIZATION #: 0017985




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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
NO. 07034
LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES
12/31/2026

CONTRACT:

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

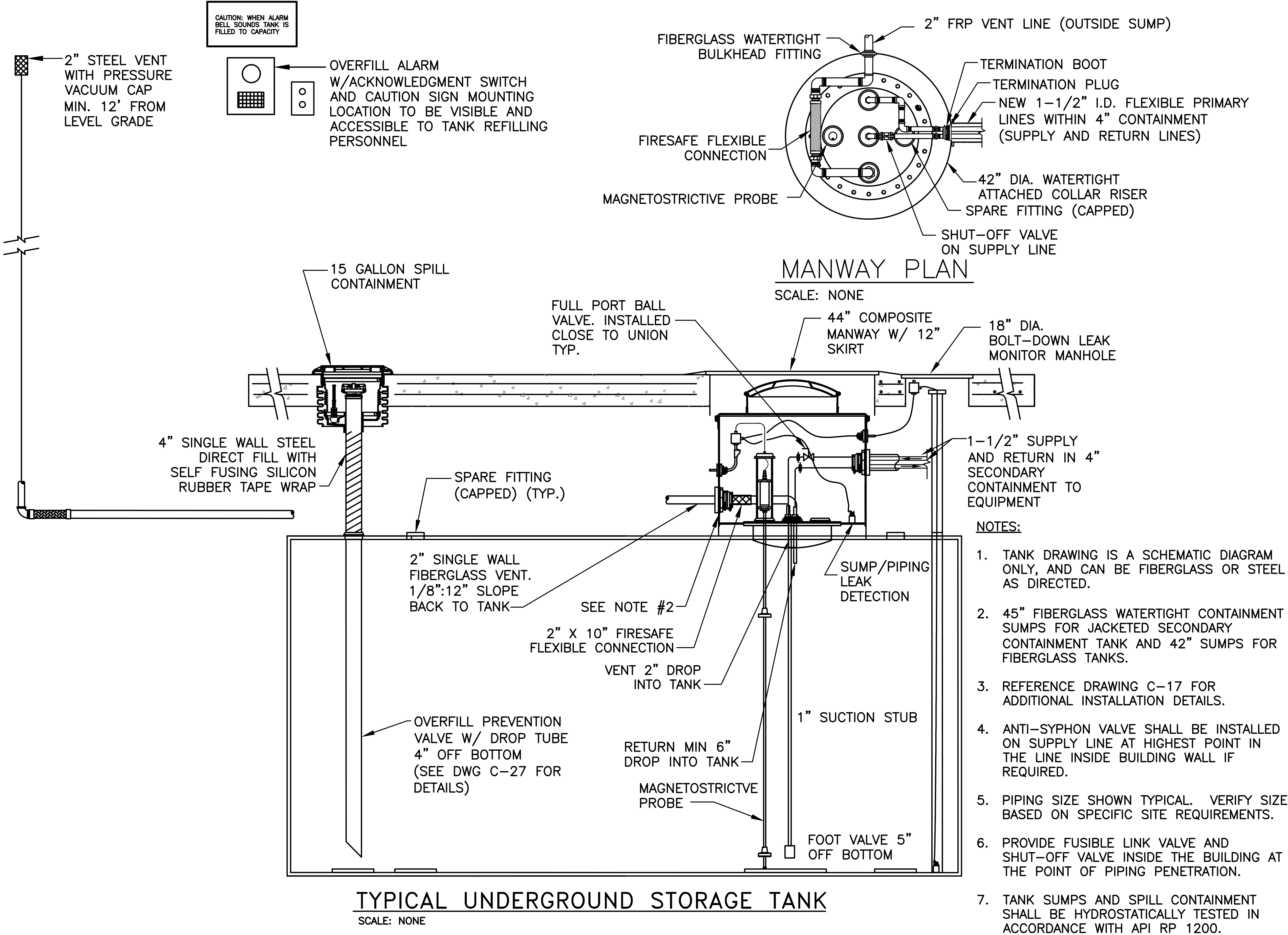
LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

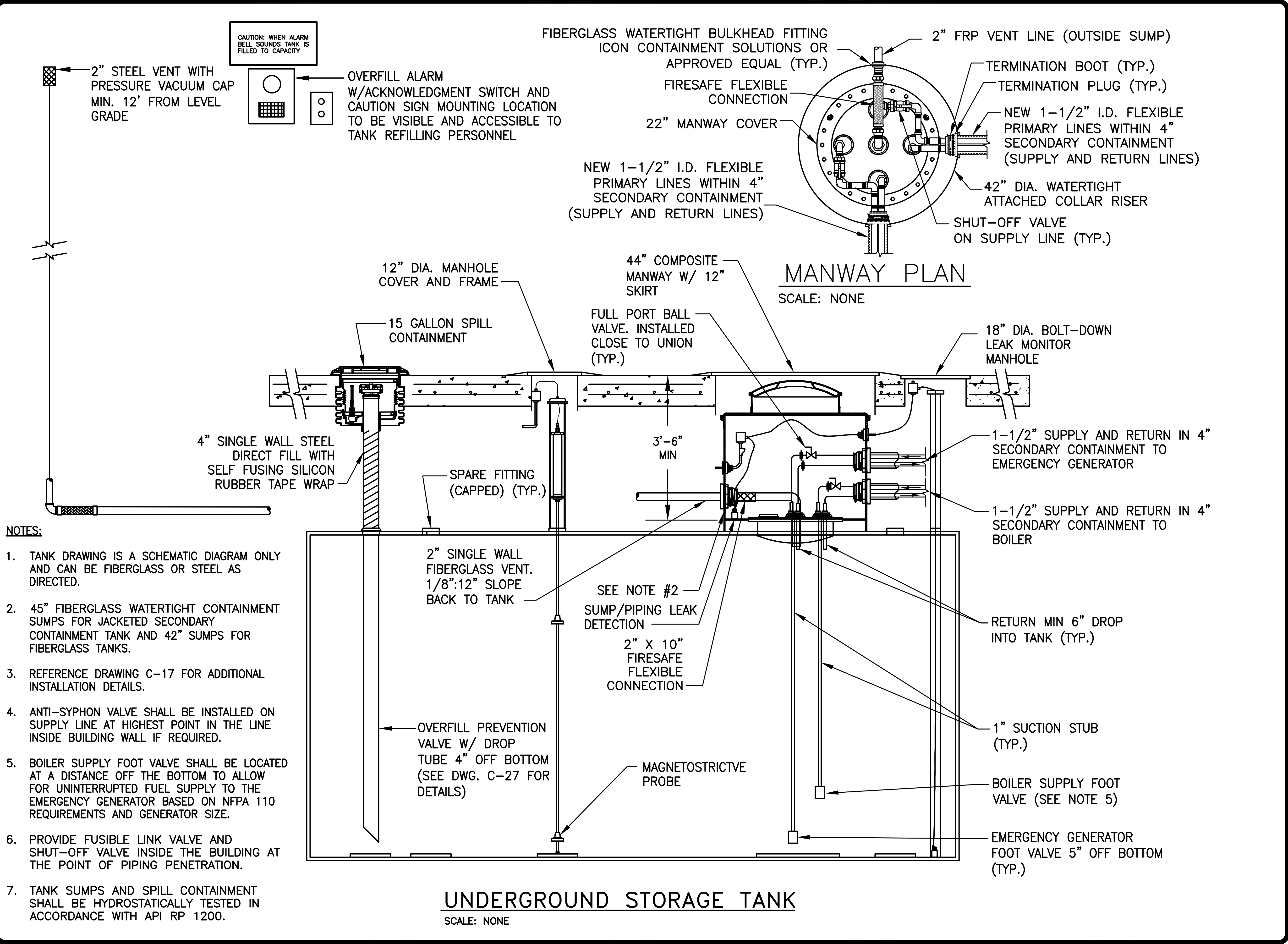
MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:
TYPICAL UNDERGROUND STORAGE TANK
TANK FUEL OIL OR GENERATOR
INSTALLATION PACKAGE

DRAWING NUMBER:
C-19

SHEET 21 OF 51





NEW YORK STATE
Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0017905

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

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STATE OF NEW YORK
MARTIN I. WESOLOWSKI
REGISTERED PROFESSIONAL ENGINEER
12/31/2025

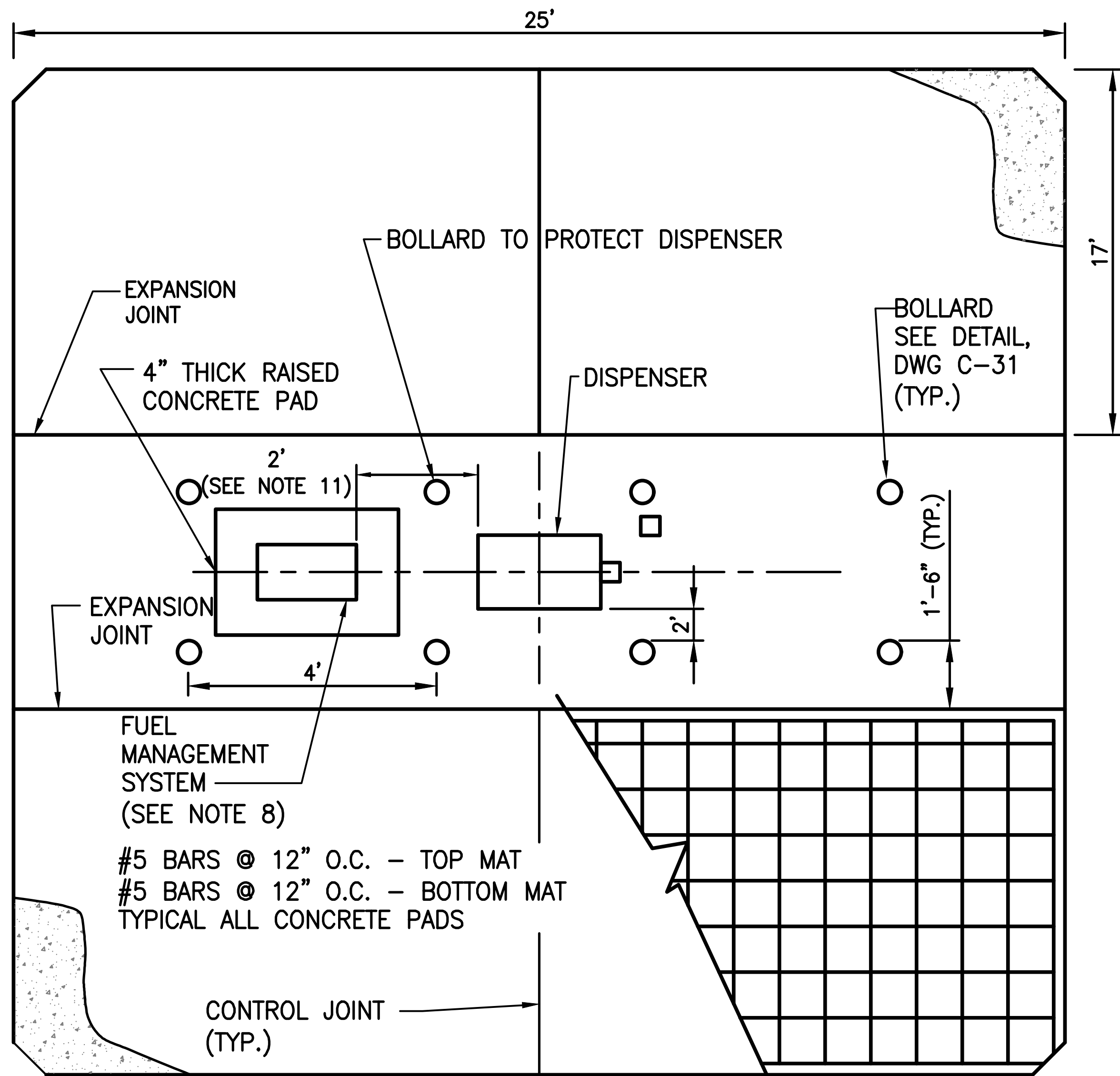
CONSTRUCTION
TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION
LOCATION: CENTRAL REGION VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:
TYPICAL UNDERGROUND STORAGE TANK BOILER AND DUAL FEED FUEL OIL - EMERGENCY GENERATOR

DRAWING NUMBER:
C-20

SHEET 22 OF 51

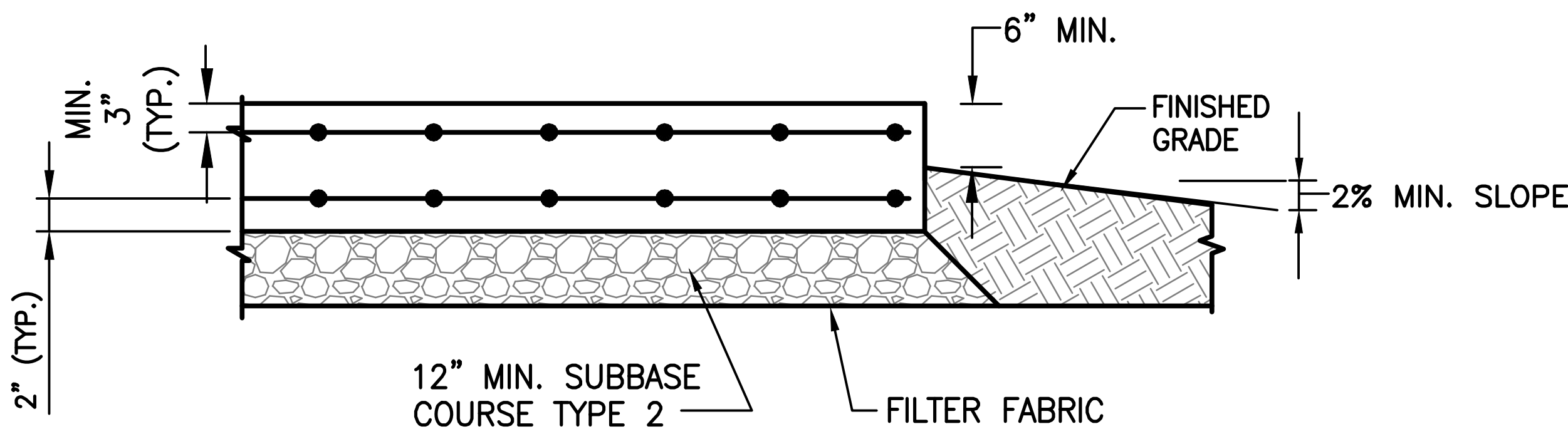


TYPICAL SINGLE HOSE DISPENSER ISLAND PLAN

SCALE: NONE

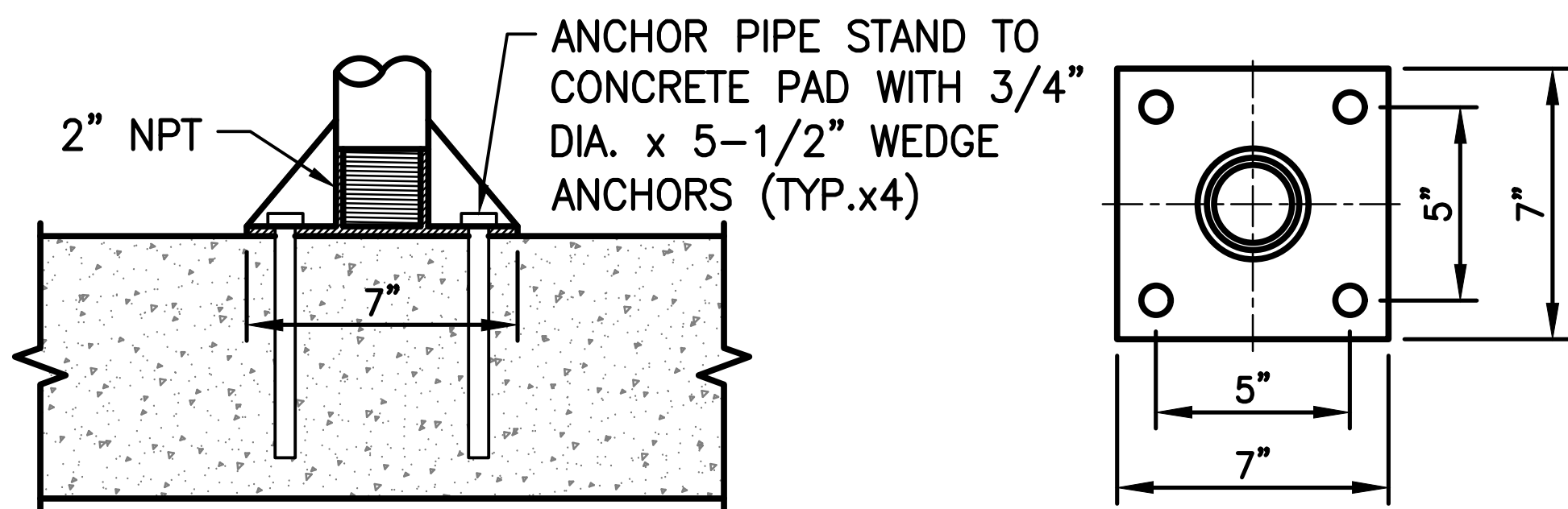
NOTES:

1. FOR FLEXIBLE DOUBLE-WALL PIPE USE 1-1/2" SUPPLY WITH 4" SECONDARY CARRIER PIPE.
2. CHECK FOR UTILITY INTERFERENCE AND LOCATE BOLLARDS ACCORDINGLY.
3. MIN. 6" REVEAL AT DISPENSER LOCATION.
4. DRIVE-ON PAD TO BE MINIMUM 12" THICK.
5. PROVIDE A 1/2" CHAMFER AT ALL EXPOSED CORNERS AND EDGES OF CONCRETE SLABS.
6. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.
7. PROVIDE A 20-POUND ABC-RATED (MINIMUM 40-B:C) FIRE EXTINGUISHER NOT MORE THAN 75 FEET FROM STORAGE TANK.
8. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA (SEE DWG. C-41).
9. GASOLINE DISPENSER HOSE SHALL BE 15' IN LENGTH (ONE 5' HOSE AND 10' HOSE WITH A DISCONNECT IN BETWEEN).
10. DIESEL DISPENSER HOSE SHALL BE 18' IN LENGTH (TWO 9' HOSES).
11. DISPENSER SHALL BE 2' FROM THE FUEL MANAGEMENT SYSTEM OR THE FUEL MANAGEMENT SYSTEM ENCLOSURE.



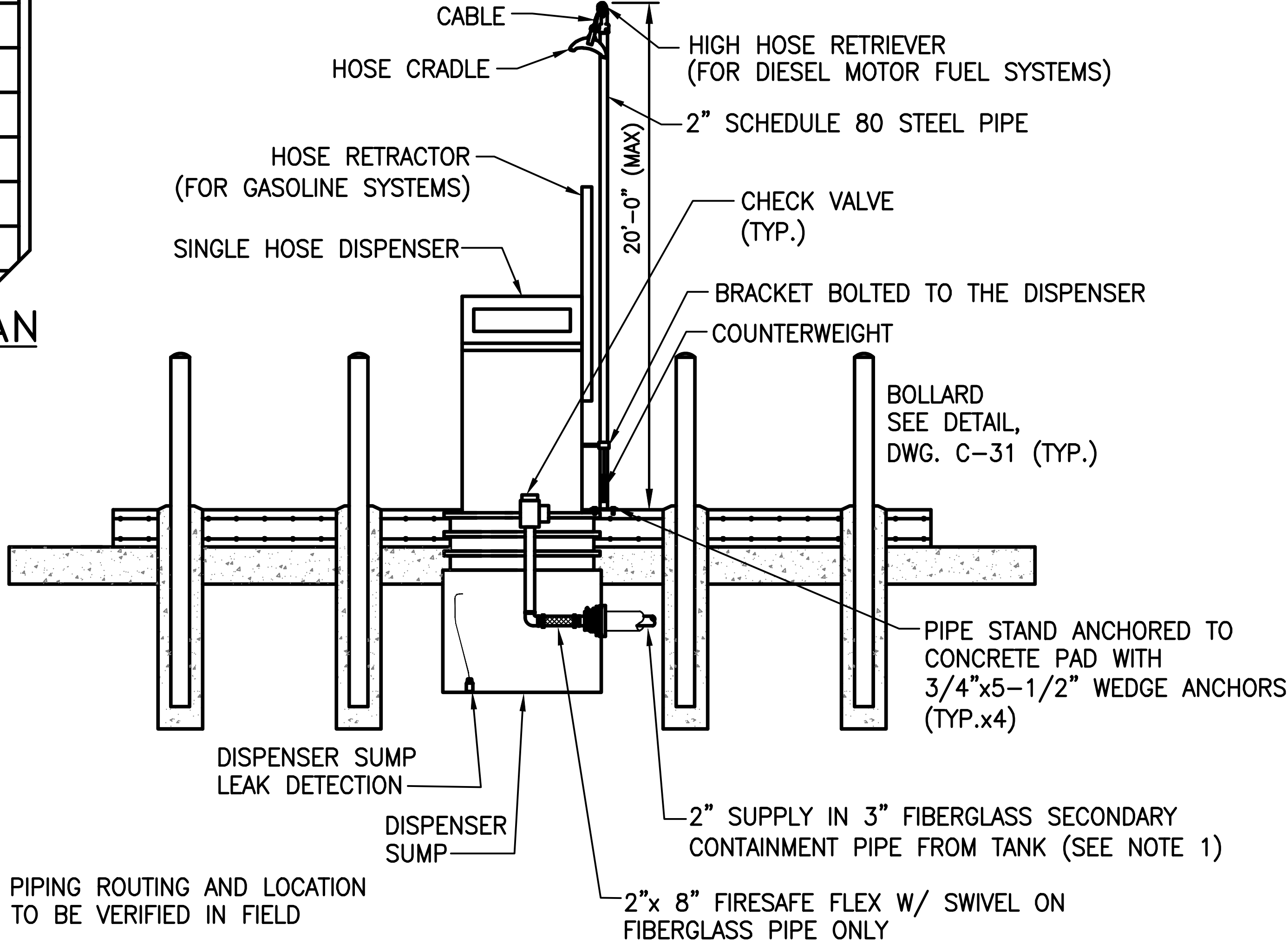
DISPENSER FOUNDATION DETAIL

SCALE: NONE



PIPE STAND DETAIL

SCALE: NONE



TYPICAL SINGLE HOSE ISLAND ELEVATION

SCALE: NONE

NEW YORK STATE OF COURTESY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0017985
LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

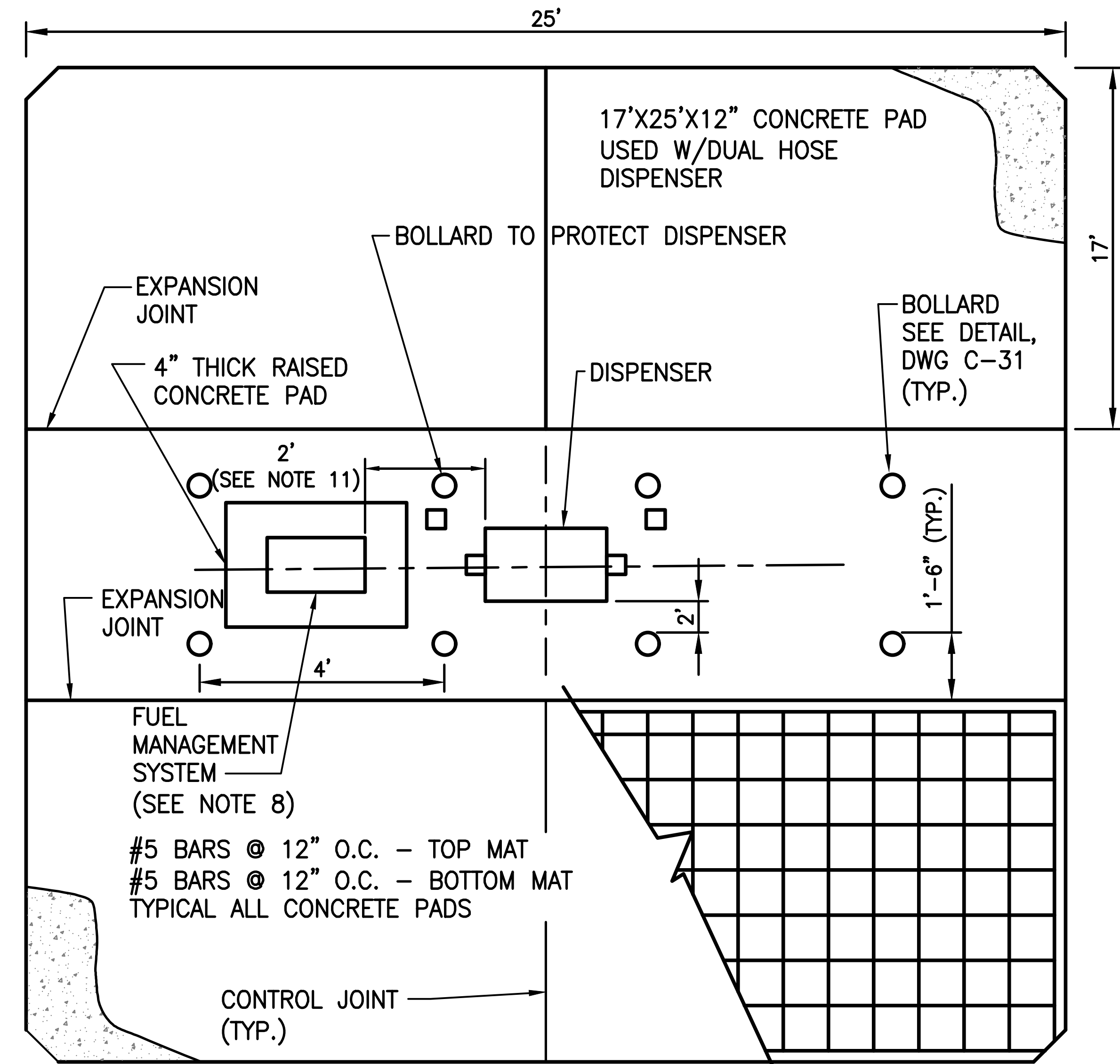
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STATE OF NEW YORK
MARTIN I. WESOLOWSKI
LICENSED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2026

CONTRACT
CONSTRUCTION
TITLE:
FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION
LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:	SINGLE HOSE DISPENSER ISLAND AND CONCRETE PAD DETAIL	
DRAWING NUMBER:	C-21	
SHEET	23	OF 51

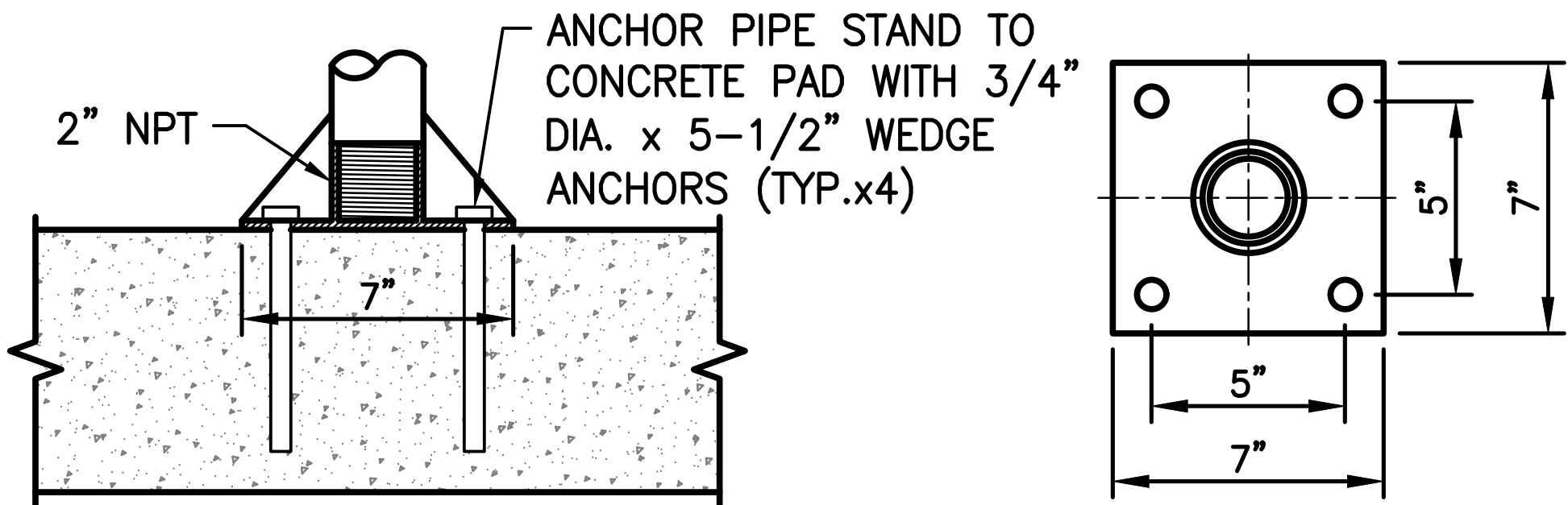


TYPICAL DUAL HOSE DISPENSER ISLAND PLAN

SCALE: NONE

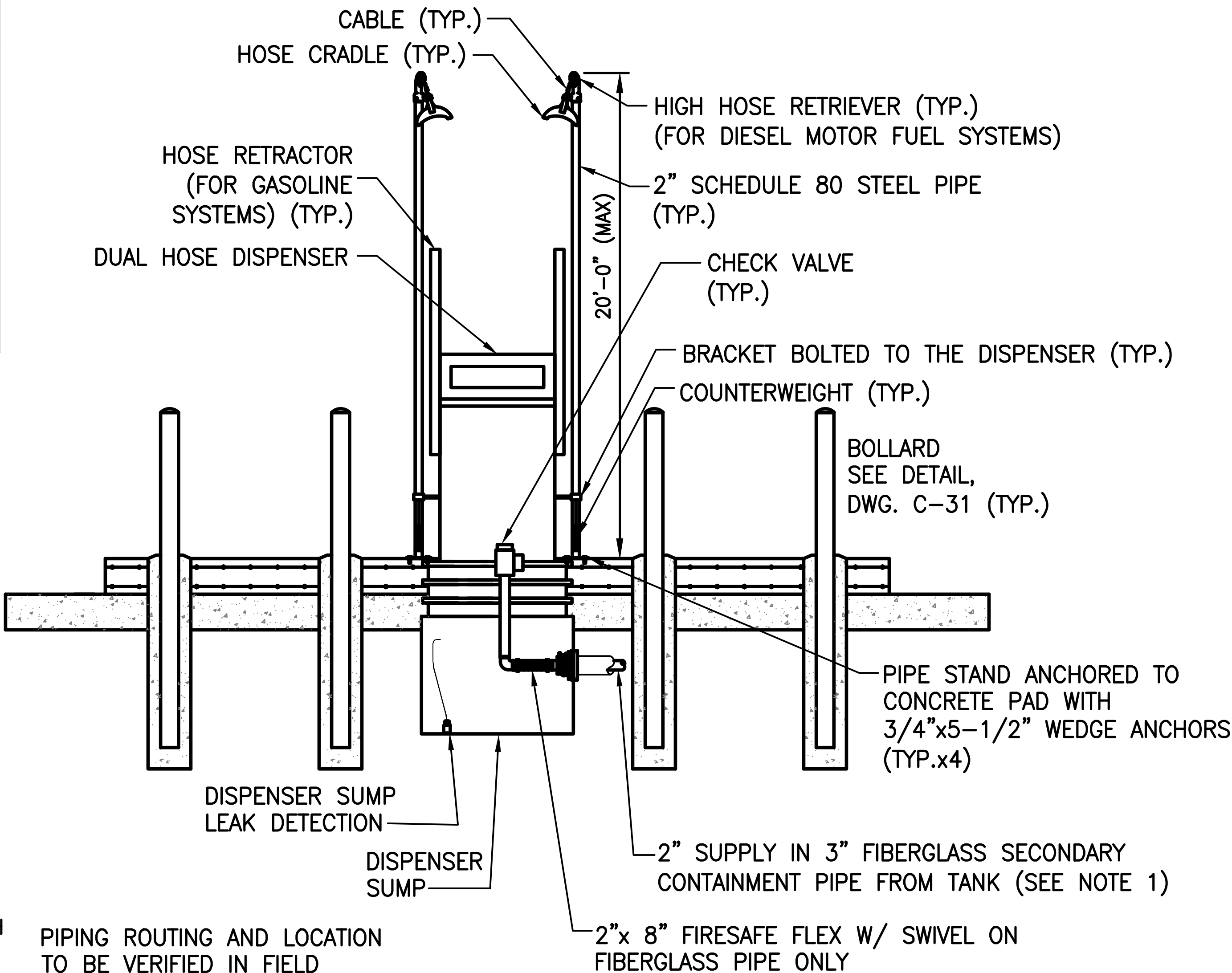
NOTES:

1. FOR FLEXIBLE DOUBLE-WALL PIPE USE 1-1/2" SUPPLY WITH 4" SECONDARY CARRIER PIPE.
2. CHECK FOR UTILITY INTERFERENCE AND LOCATE BOLLARDS ACCORDINGLY.
3. MIN. 6" REVEAL AT DISPENSER LOCATION.
4. DRIVE-ON PAD TO BE MINIMUM 12" THICK.
5. PROVIDE A 1/2" CHAMFER AT ALL EXPOSED CORNERS AND EDGES OF CONCRETE SLABS.
6. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.
7. PROVIDE A 20-POUND ABC-RATED (MINIMUM 40-B:C) FIRE EXTINGUISHER NOT MORE THAN 75 FEET FROM STORAGE TANK.
8. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA (SEE DWG. C-41).
9. GASOLINE DISPENSER HOSE SHALL BE 15' IN LENGTH (ONE 5' HOSE AND ONE 10' HOSE WITH A DISCONNECT IN BETWEEN).
10. DIESEL DISPENSER HOSE SHALL BE 18' IN LENGTH (TWO 9' HOSES).
11. DISPENSER SHALL BE 2' FROM THE FUEL MANAGEMENT SYSTEM OR THE FUEL MANAGEMENT SYSTEM ENCLOSURE.



PIPE STAND DETAIL

SCALE: NONE



TYPICAL DUAL HOSE ISLAND ELEVATION

SCALE: NONE

NEW YORK STATE OF COURTESY

Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

LiRo Engineers, Inc.

3 Aerial Way, Syosset, New York

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STATE OF NEW YORK

MAKIN I. WESOLOWSKI

REGISTERED PROFESSIONAL ENGINEER

12/31/2025

CONTRACT

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION VARIOUS FACILITIES

1/31/2025

FINAL SUBMISSION

MARK

DATE

DESCRIPTION

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

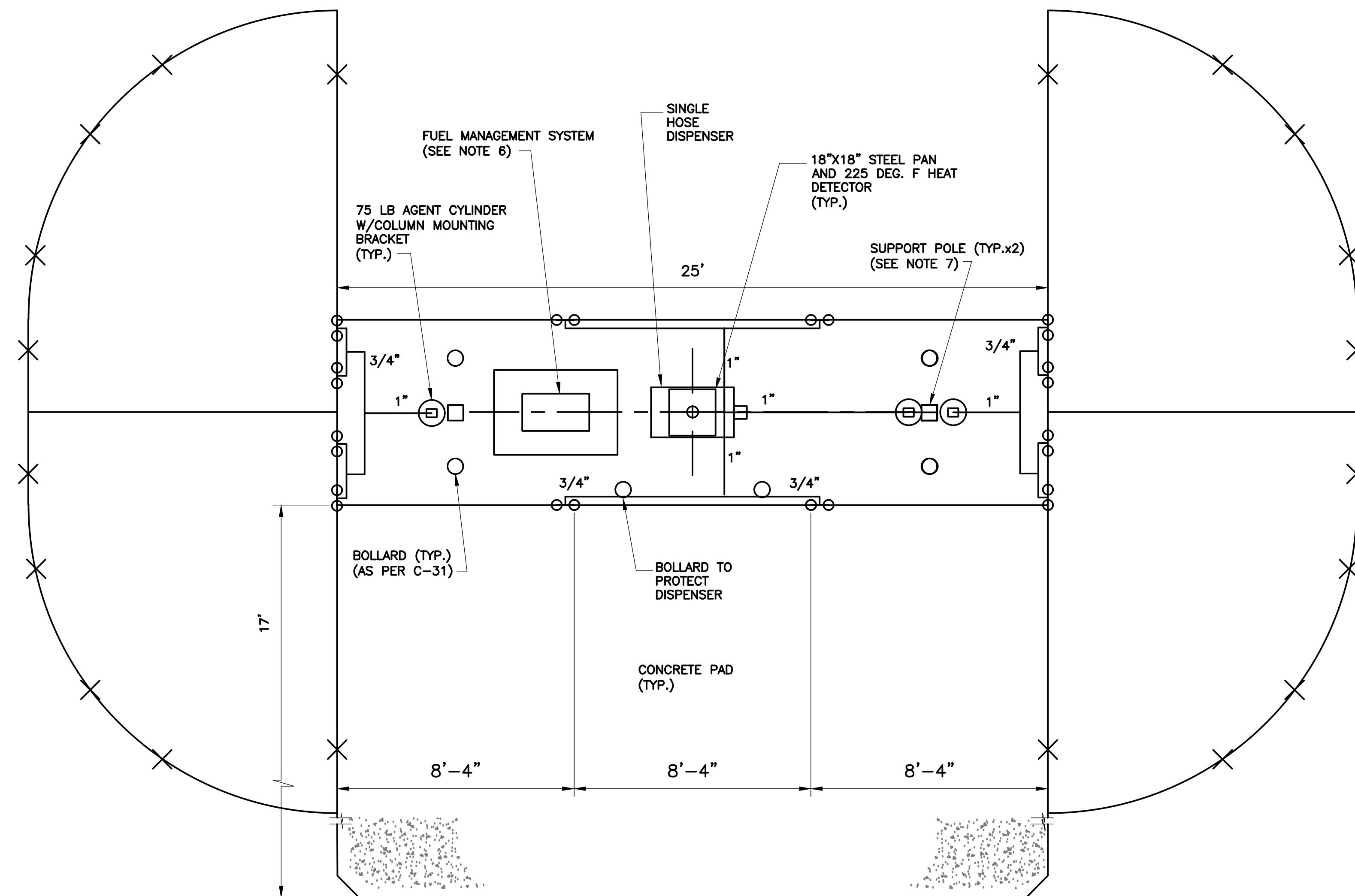
SHEET TITLE:

DUAL HOSE DISPENSER ISLAND AND CONCRETE PAD DETAIL

DRAWING NUMBER:

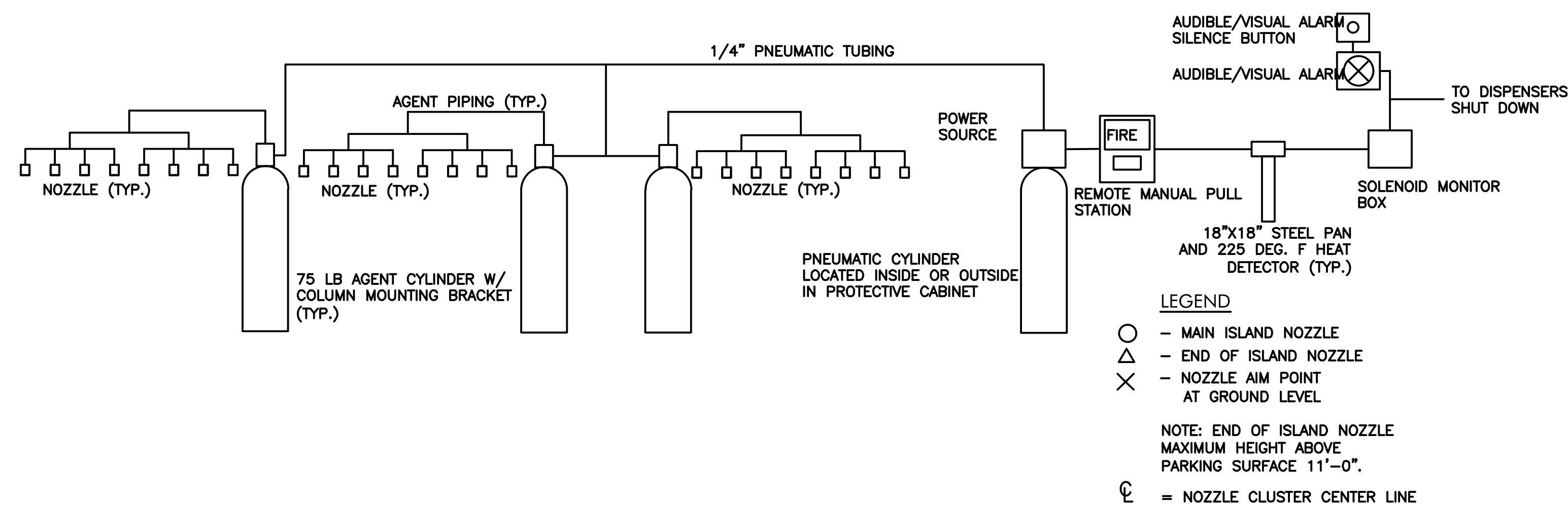
C-22

SHEET 24 OF 51



SINGLE HOSE DISPENSER ISLAND PLAN

SCALE: NONE

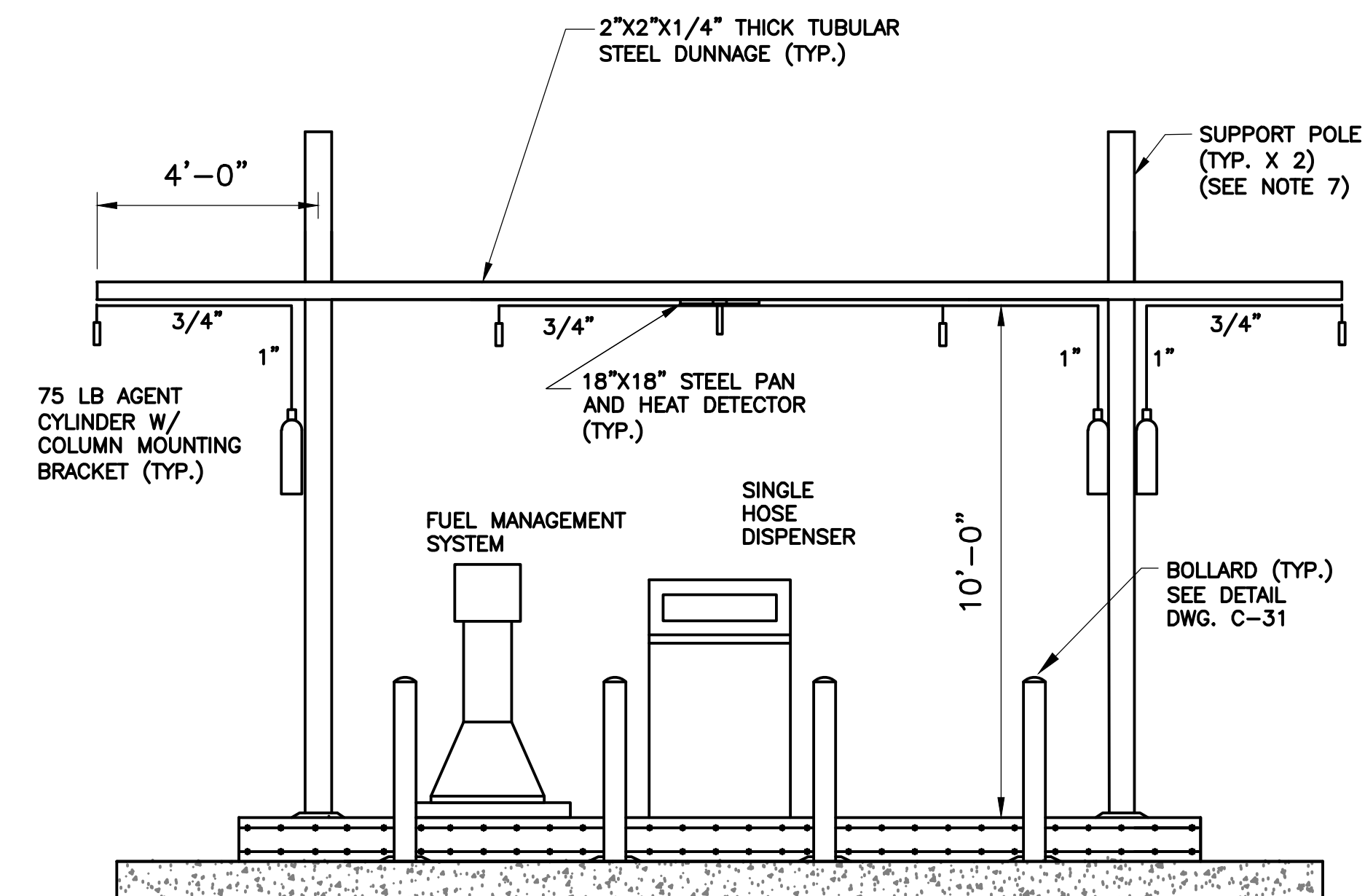


FIRE SUPPRESSION SCHEMATIC DIAGRAM

SCALE: NONE

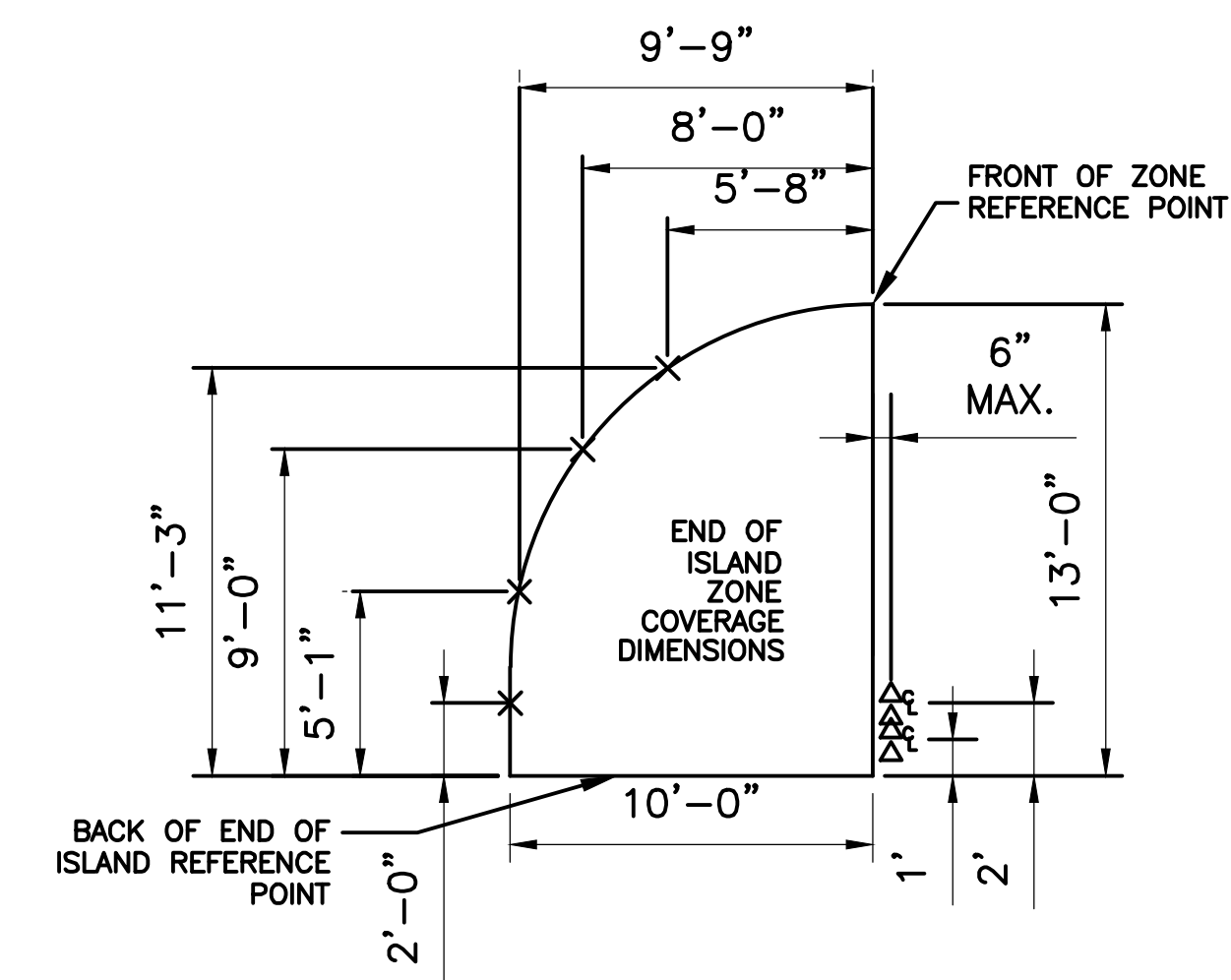
- NOTES:

1. NUMBER OF NOZZLES AND PIPE SIZES ARE DIAGRAM ONLY. ACTUAL PIPE SIZE AND ROUTING TO BE VENDER CERTIFIED AND DESIGNED FOR HAZARD AREA.
2. SYSTEM TO BE UL1254 AND AS PER NFPA-17.
3. DUNNAGE LAYOUT TO BE SUBMITTED FOR DIRECTOR APPROVAL.
4. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.
5. FIRE SUPPRESSION SYSTEM MAY BE TIED INTO THE FACILITY'S CENTRAL ALARM SYSTEM. TIE-IN LOCATION AND ARRANGEMENT SHALL BE DETERMINED ON A SITE BY SITE BASIS. CONTRACTOR TO PROVIDE WIRE AND CONDUIT TO ALARM PANEL. FACILITY TO PROVIDE FINAL CONNECTION TO CENTRAL PANEL.
6. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA.
7. FIRE SUPPRESSION SYSTEM SUPPORT POLES ARE PROHIBITED FROM BEING USED AS LIGHTING SUPPORT POLES. PROVIDE LIGHT POLES SEPARATELY.



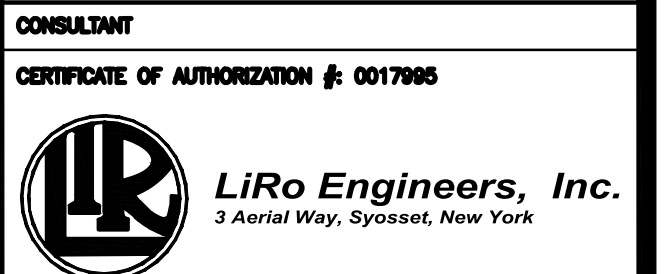
SINGLE HOSE DISPENSER ISLAND ELEVATION

SCALE: NONE



TYPICAL NOZZLE AIMING POINTS DETAIL

SCALE: NONE



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CONTRACT: CONSTRUCTION

TITLE:	FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION
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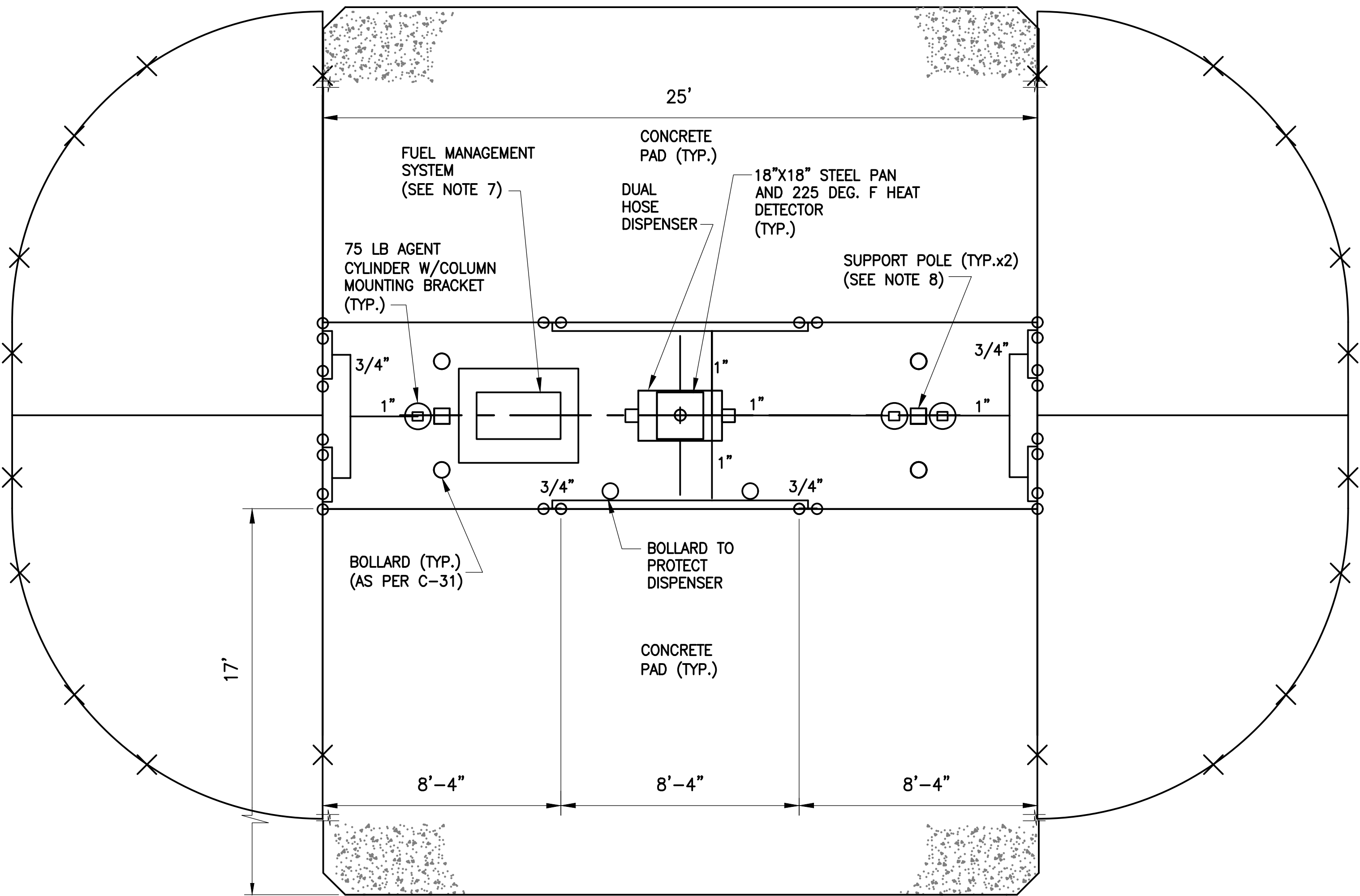
LOCATION: CENTRAL REGION
VARIOUS FACILITIES

	1/31/2025	FINAL SUBMISSION	
MARK	DATE	DESCRIPTION	
PROJECT NUMBER:	47675 — C		
DESIGNED BY:	M. GUTMANN		
DRAWN BY:	A. KELLY		
FIELD CHECK:	M. WESOLOWSKI		
APPROVED:	M. WESOLOWSKI		

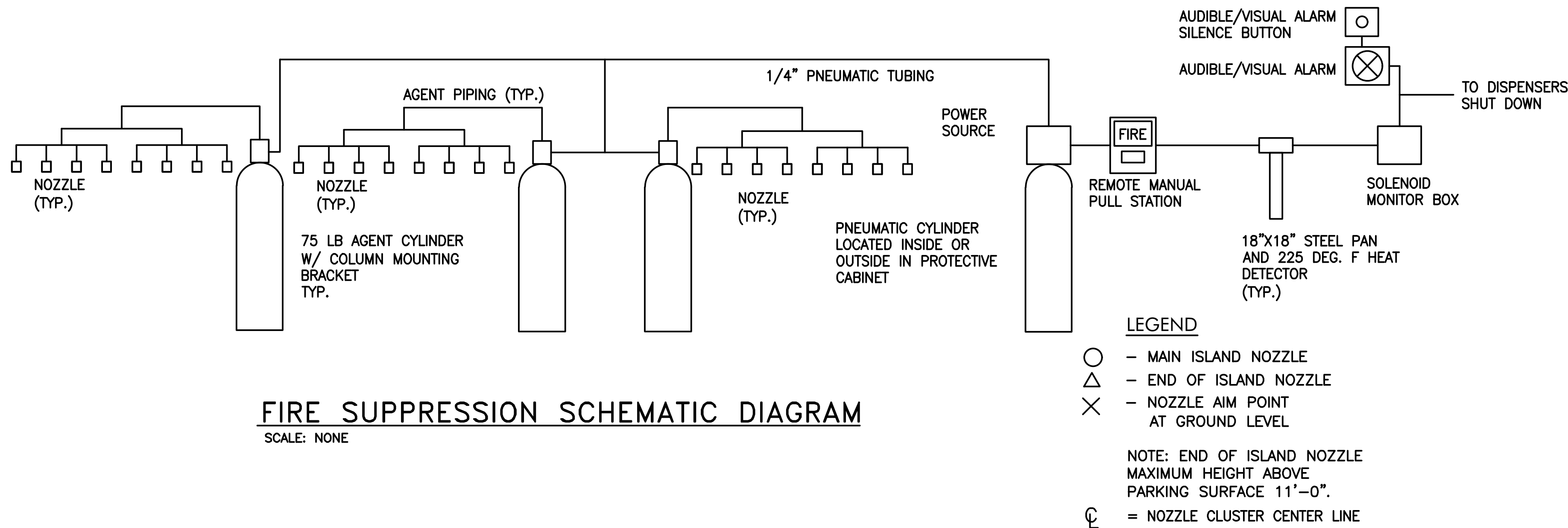
SHEET TITLE:

SINGLE HOSE
DISPENSER ISLAND
FIRE SUPPRESSION
DETAILS

DRAWING NUMBER: C-23

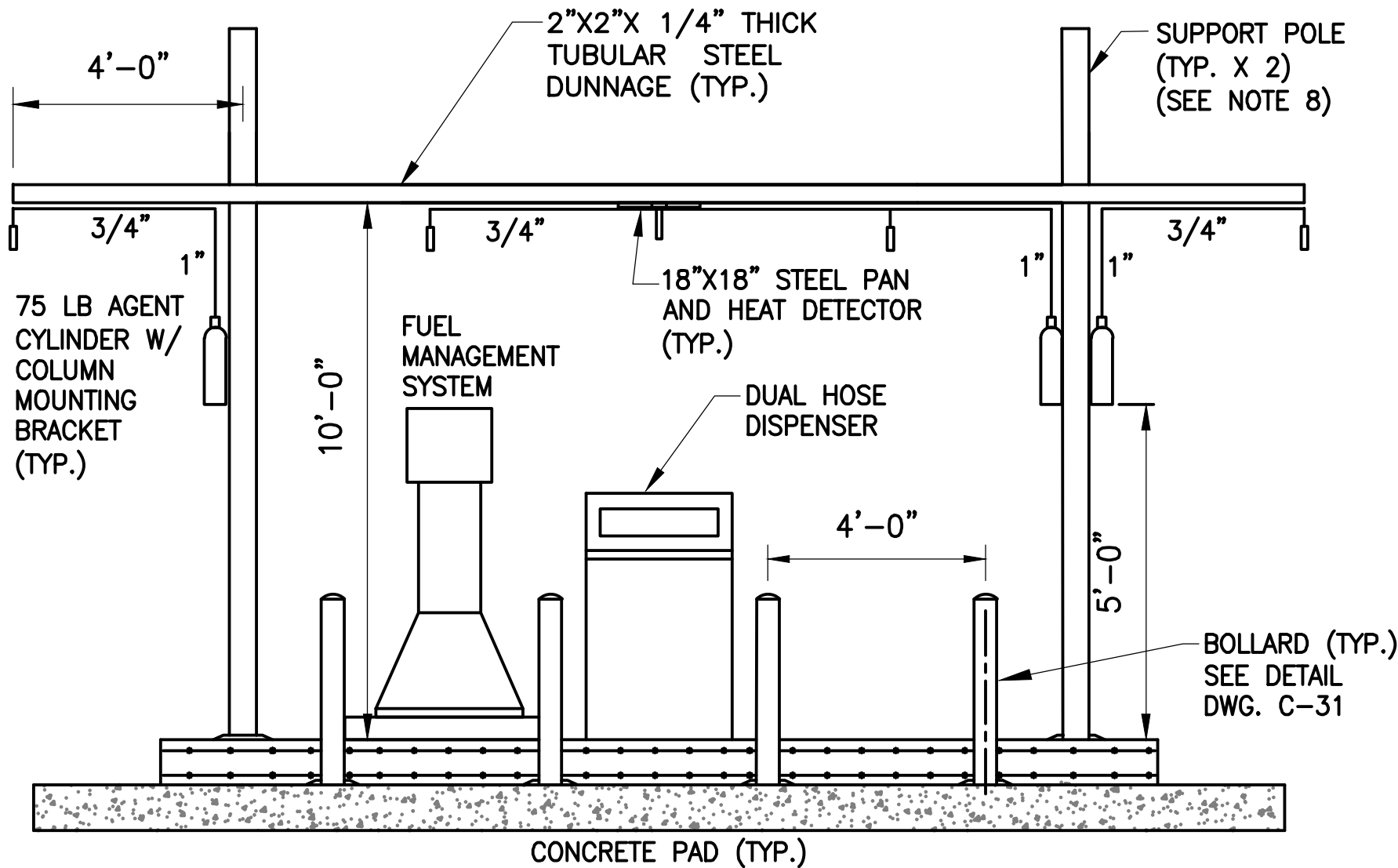


DUAL HOSE DISPENSER ISLAND PLAN
SCALE: NONE

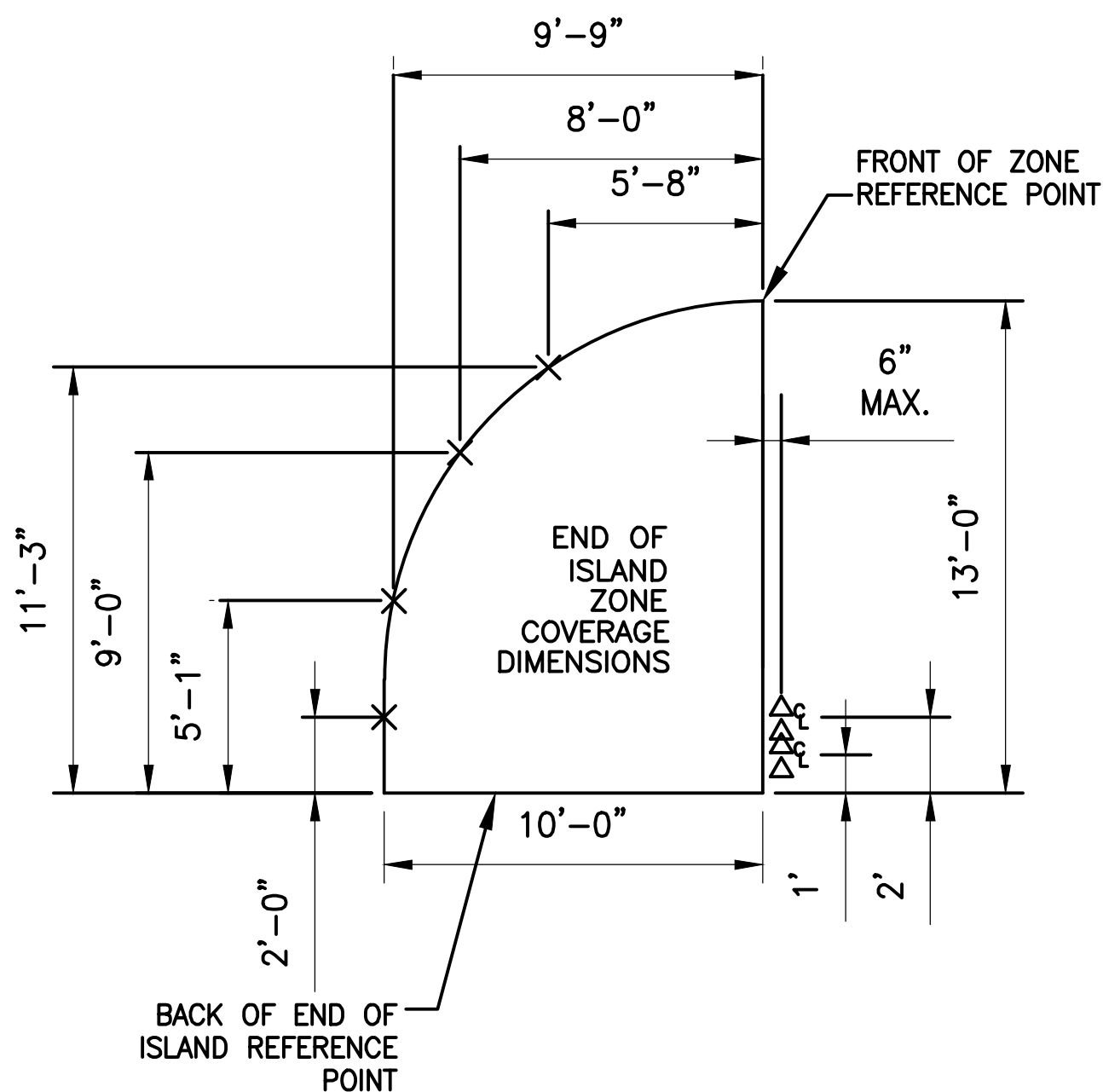


FIRE SUPPRESSION SCHEMATIC DIAGRAM
SCALE: NONE

- NOTES:
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 2. SYSTEM TO BE UL1254 AND AS PER NFPA-17.
 3. DUNNAGE LAYOUT TO BE SUBMITTED FOR DIRECTOR APPROVAL.
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 5. FIRE SUPPRESSION SYSTEM MAY BE TIED INTO THE FACILITY'S CENTRAL ALARM SYSTEM. TIE-IN LOCATION AND ARRANGEMENT SHALL BE DETERMINED ON A SITE BY SITE BASIS. CONTRACTOR TO PROVIDE WIRE AND CONDUIT TO ALARM PANEL. FACILITY TO PROVIDE FINAL CONNECTION TO CENTRAL PANEL.
 6. AVOID HOSE ARCS INTERSECTING TO MINIMIZE AREA COVERED BY FIRE SUPPRESSION SYSTEM.
 7. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA.
 8. FIRE SUPPRESSION SYSTEM SUPPORT POLES ARE PROHIBITED FROM BEING USED AS LIGHTING SUPPORT POLES. PROVIDE LIGHT POLES SEPARATELY.



DUAL HOSE DISPENSER ISLAND ELEVATION
SCALE: NONE



TYPICAL NOZZLE AIMING POINTS DETAIL
SCALE: NONE

Office of General Services

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CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017905

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CONTRACT:

CONSTRUCTION

TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION: CENTRAL REGION VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY


FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

SHEET TITLE: DUAL HOSE DISPENSER ISLAND FIRE SUPPRESSION DETAILS

DRAWING NUMBER: C-24

SHEET 26 OF 51




Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017005




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STATE OF NEW YORK
ARCHITECT
NO. 012154
EXPIRATION DATE
12/31/2028

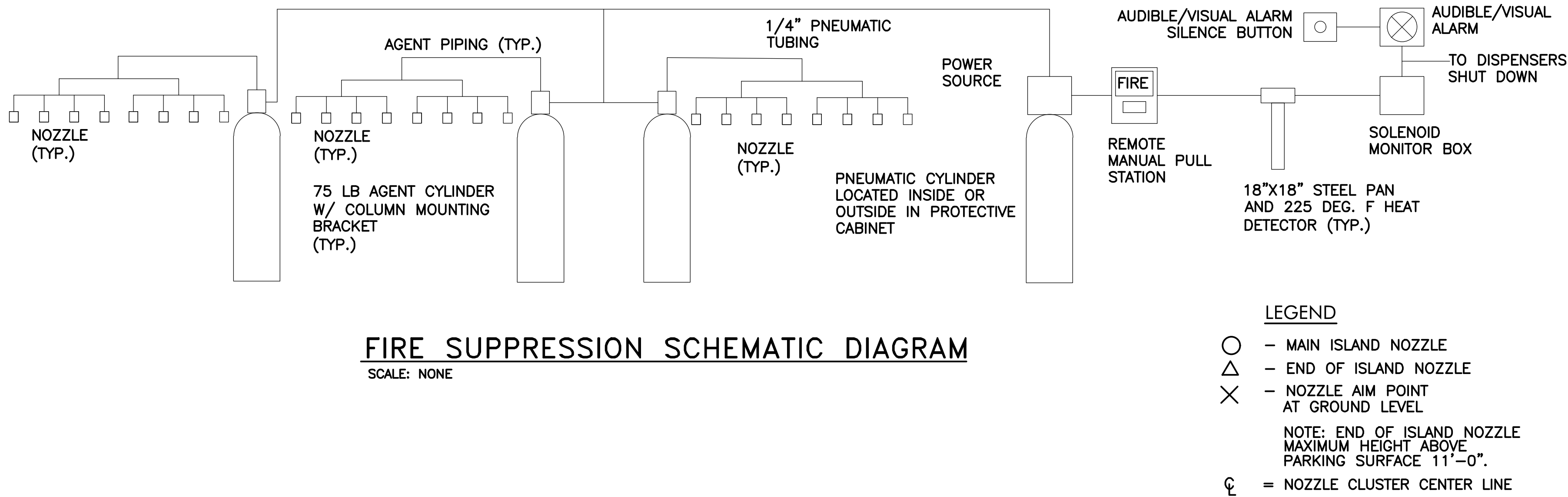
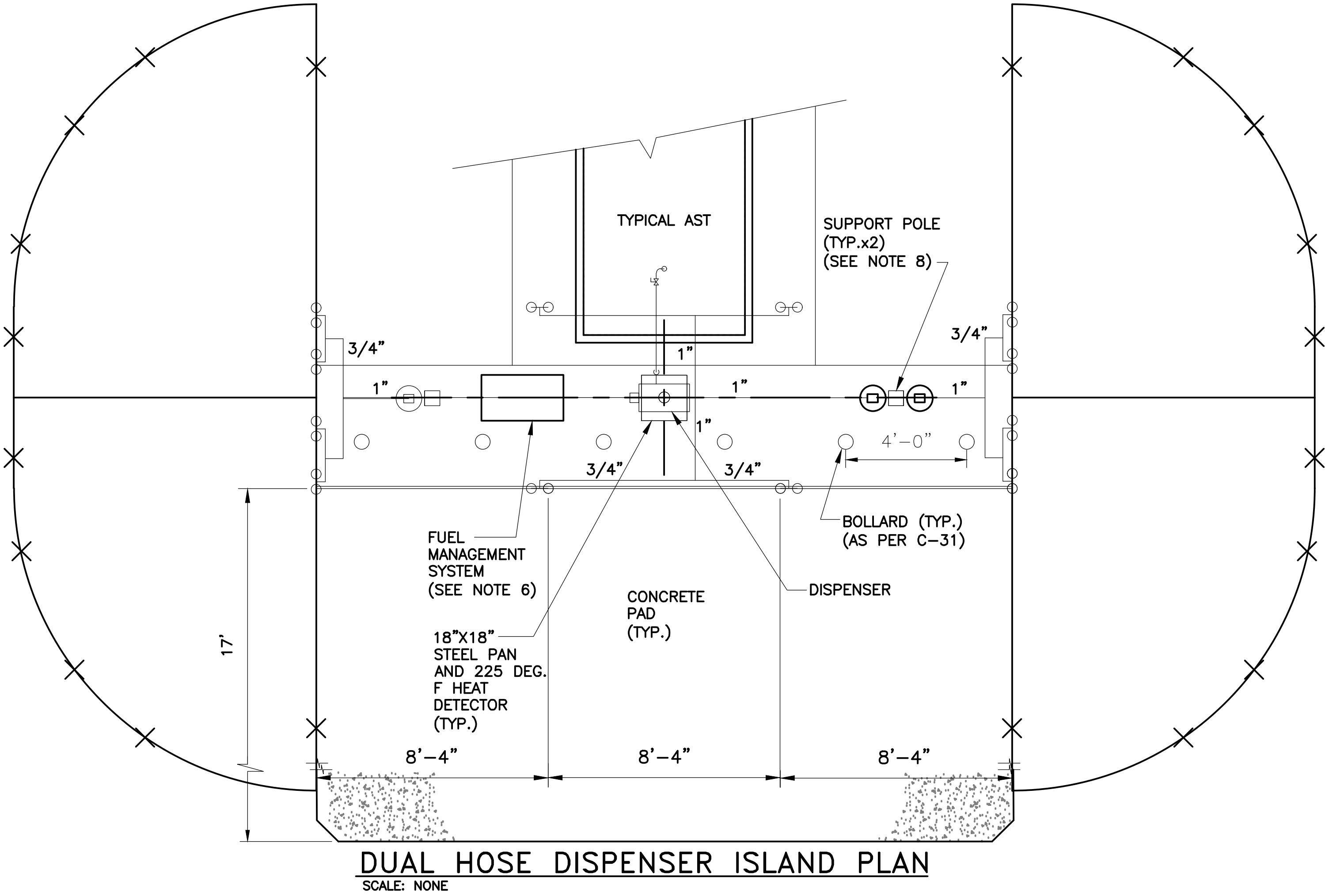
CONTRACT

CONSTRUCTION

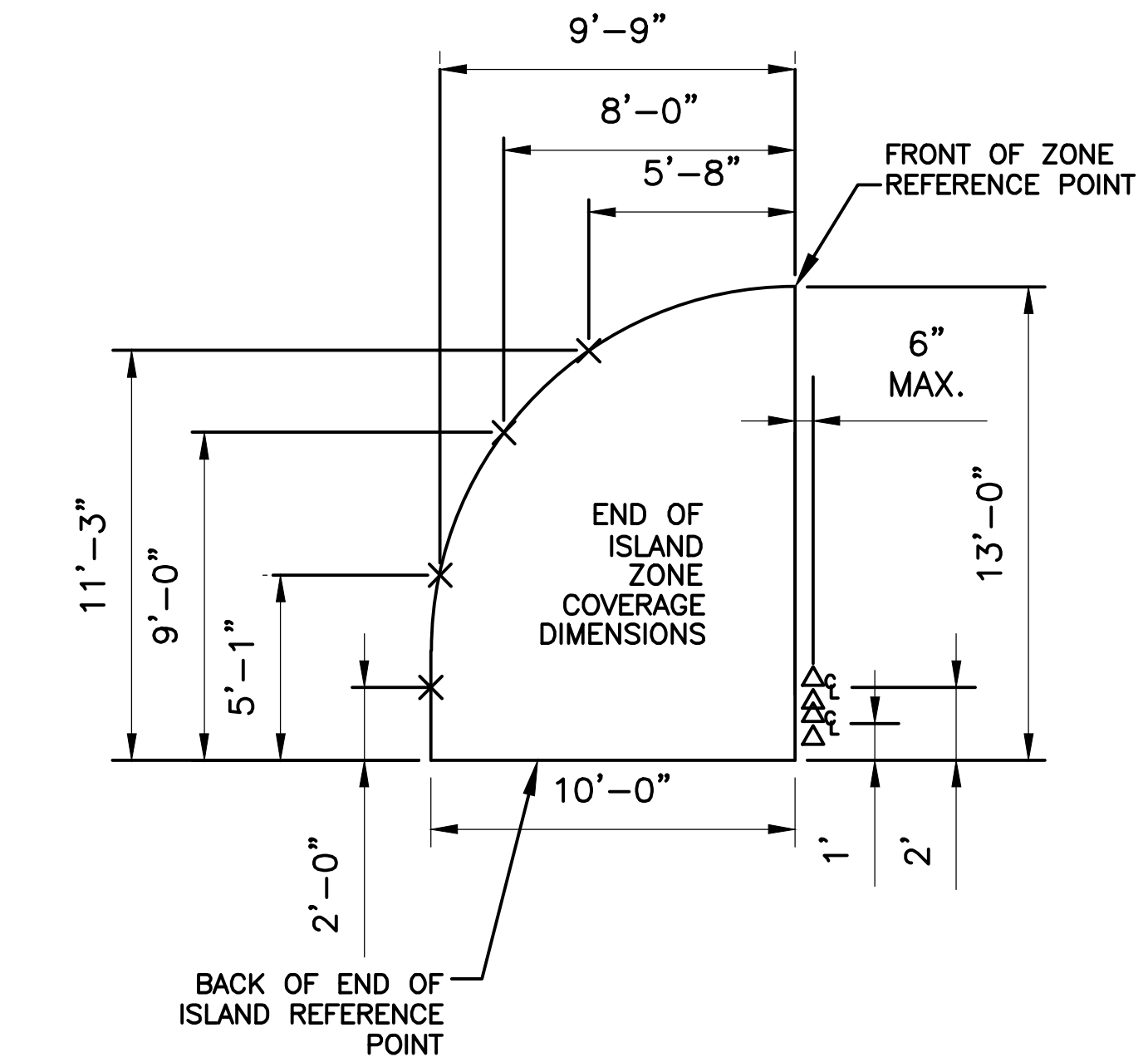
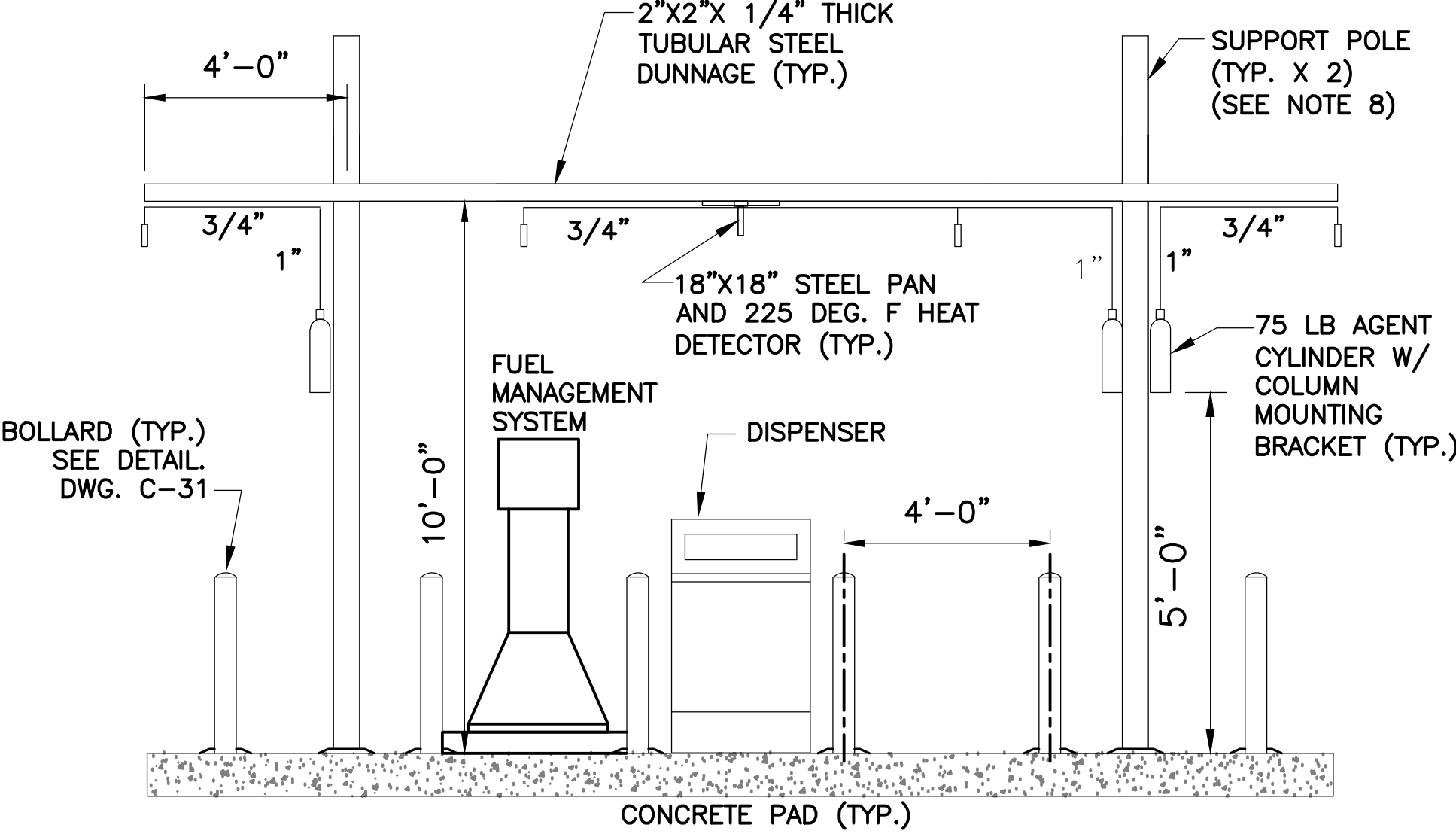
TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

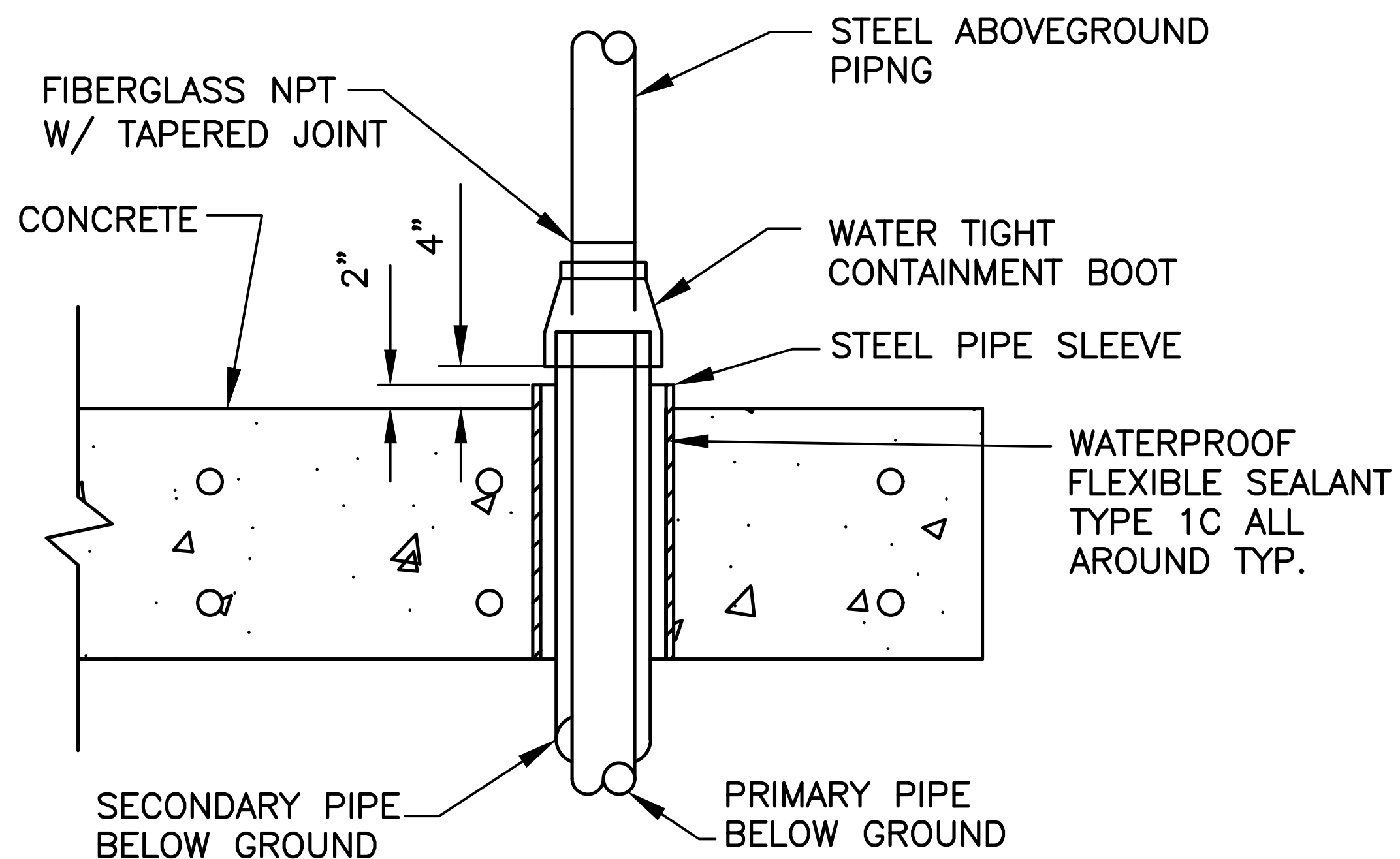
LOCATION: CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675 - C	
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:		
ABOVEGROUND FUEL STORAGE TANK SINGLE AND DUAL HOSE DISPENSER AND ISLAND DETAILS		
DRAWING NUMBER:		
C-25		
SHEET 27 OF 51		



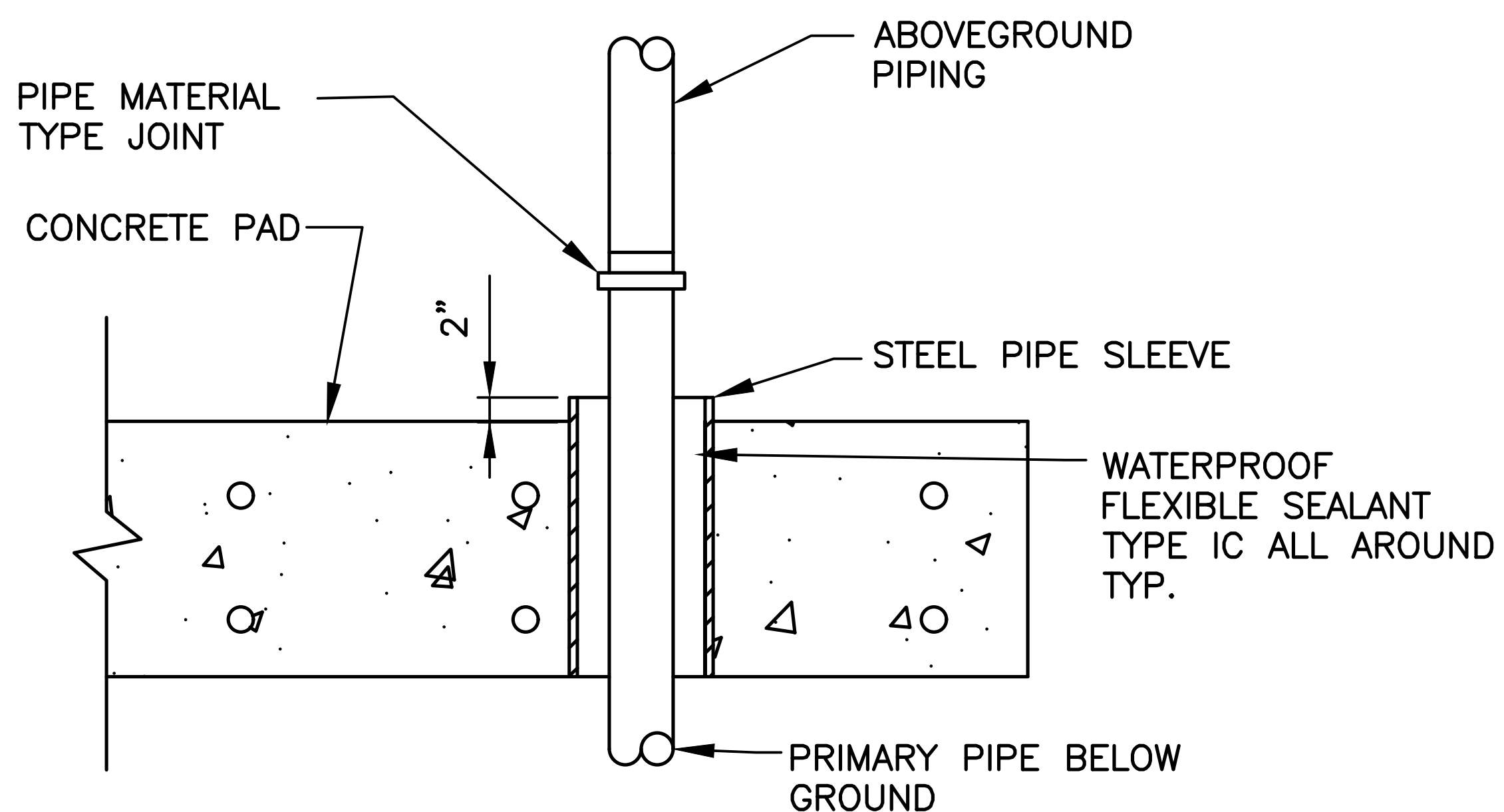
- NOTES:
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 2. SYSTEM TO BE UL1254 AND AS PER NFPA-17.
 3. DUNNAGE LAYOUT TO BE SUBMITTED FOR DIRECTOR APPROVAL.
 4. INSTALL EMERGENCY FUEL PUMP SHUT-OFF SWITCH BETWEEN 20 AND 100 FEET FROM FUEL DISPENSER.
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 6. AVOID HOSE ARCS INTERSECTING TO MINIMIZE AREA COVERED BY FIRE SUPPRESSION SYSTEM.
 7. FOR ASSET WORKS FUEL MANAGEMENT SYSTEMS, STUB UP ALL REQUIRED CONDUIT IN AN 11" X 11" AREA.
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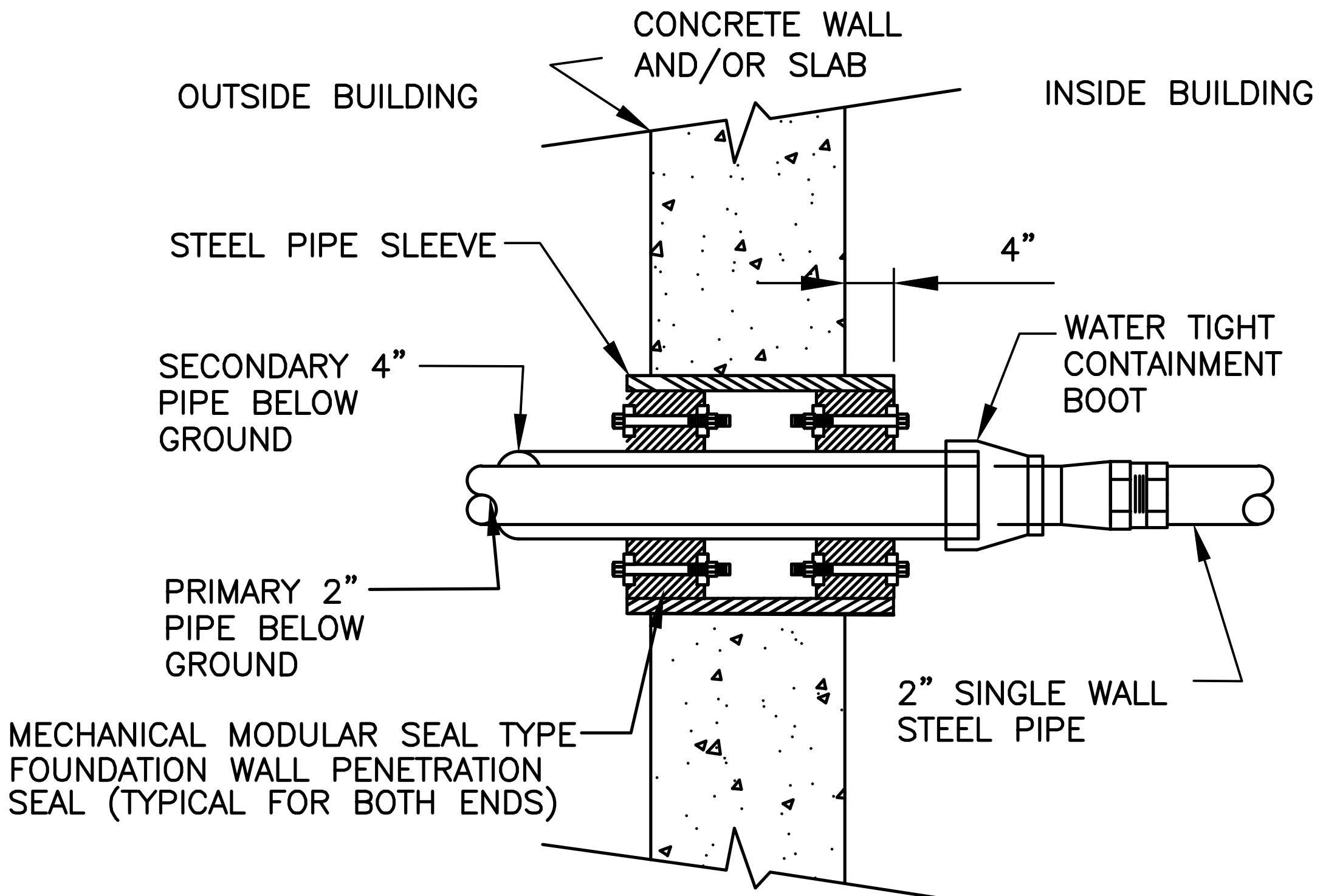
DOUBLEWALL PIPING SLAB PENETRATION DETAIL

SCALE: NONE



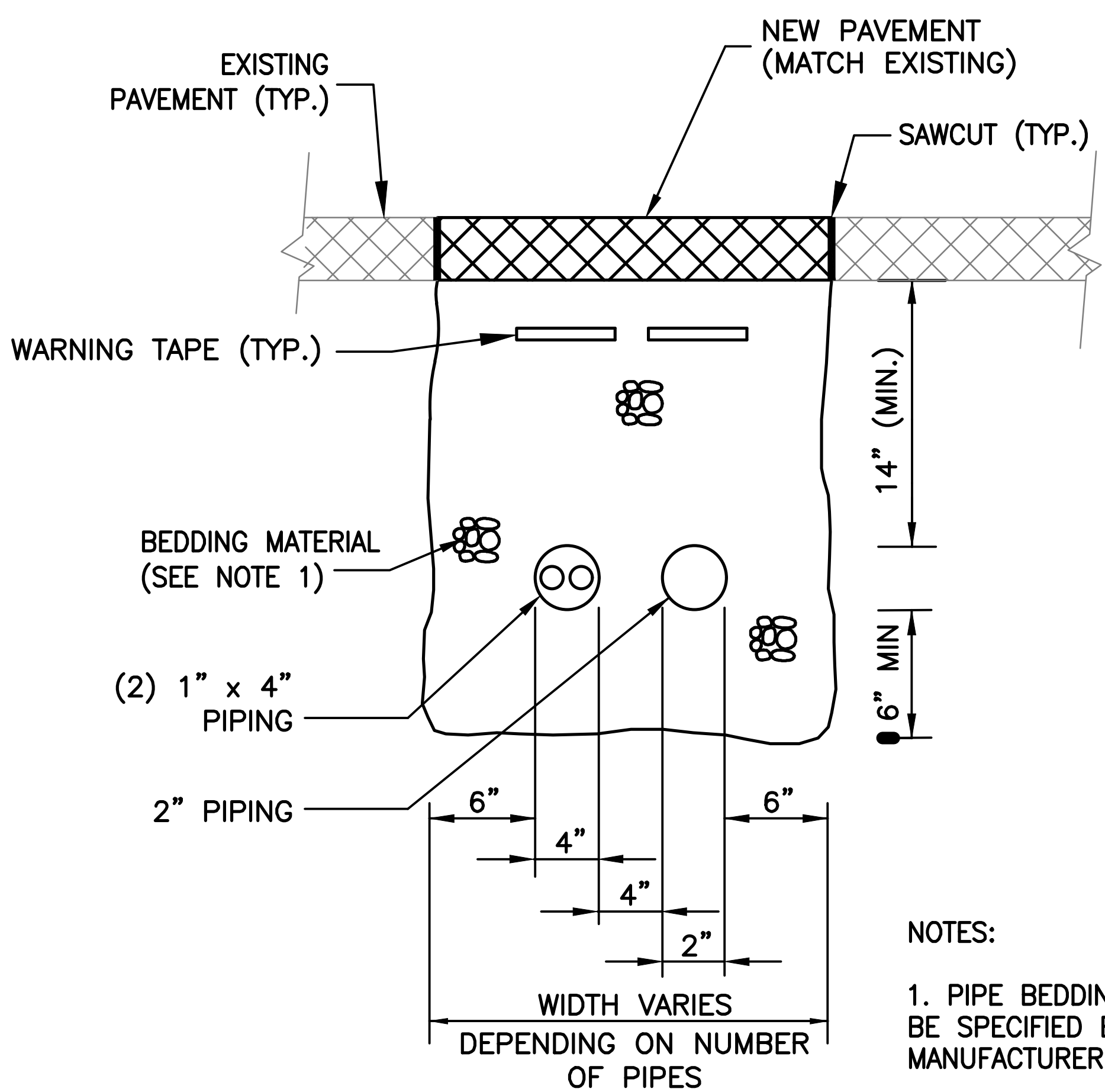
SINGLEWALL SLAB PENETRATION DETAIL

SCALE: NONE




WATER TIGHT PENETRATION DETAIL

SCALE: NONE



PIPING TRENCH DETAIL

SCALE: NONE




Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985



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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
REGISTERED PROFESSIONAL ENGINEER
12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

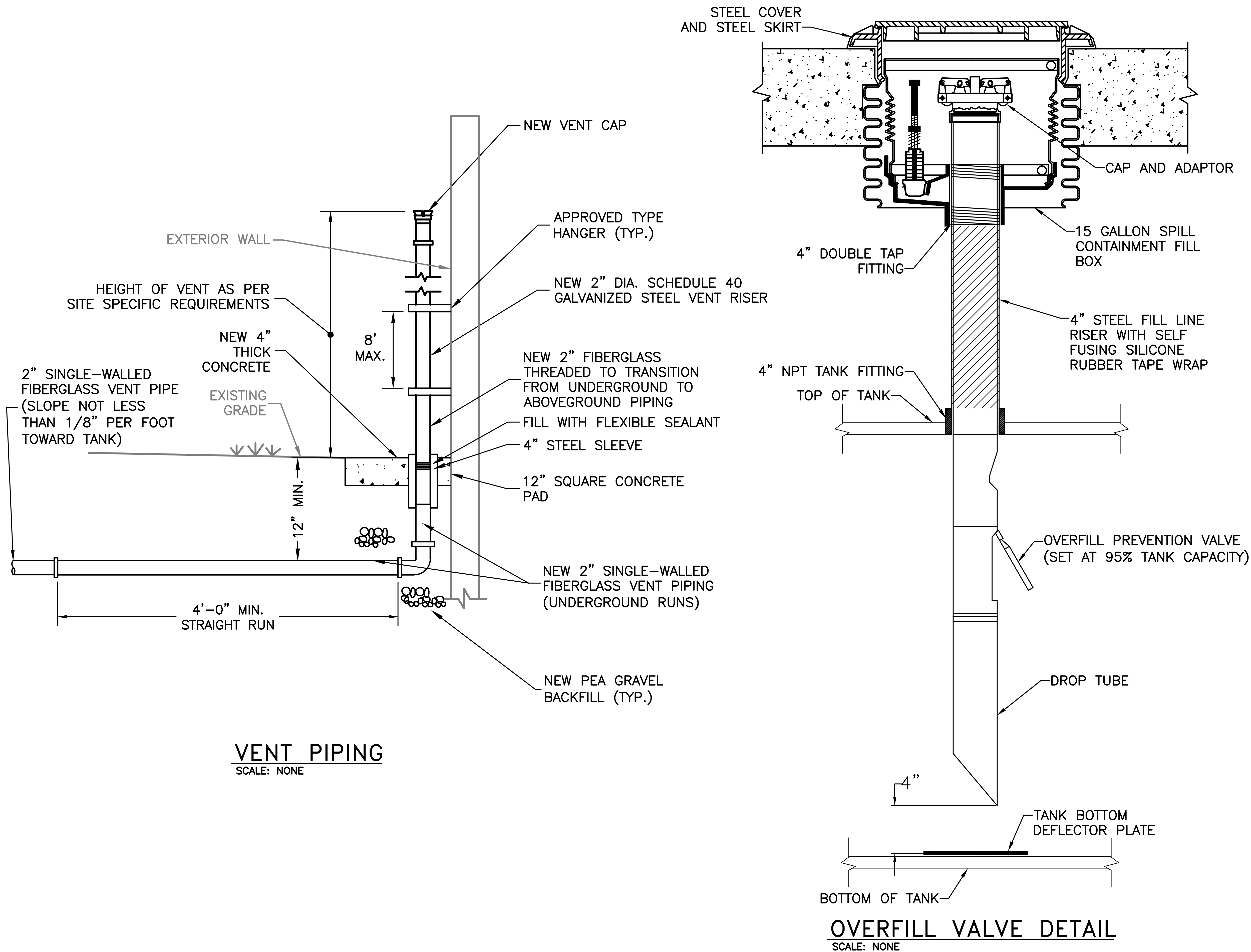
LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:
PIPING PENETRATION &
TRENCH DETAILS

DRAWING NUMBER:
C-26

SHEET 28 OF 51



NEW YORK

STATE OF

CORPORATE

Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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STATE OF NEW YORK

LIBRARY

PROFESSIONAL NUMBER

12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

SHEET TITLE:

UST
OVERFILL VALVE AND
VENT PIPING
DETAIL

DRAWING NUMBER:

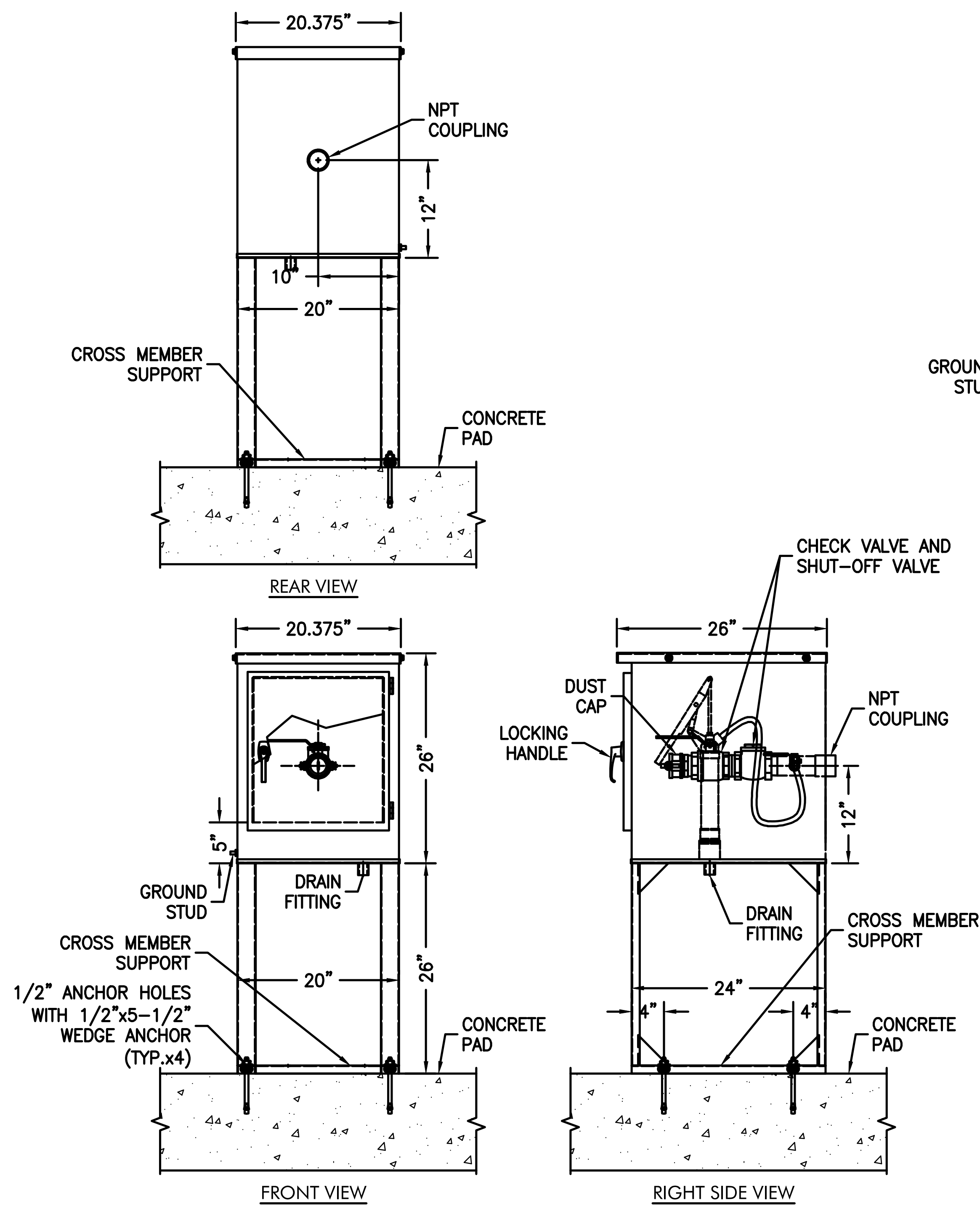
C-27

SHEET

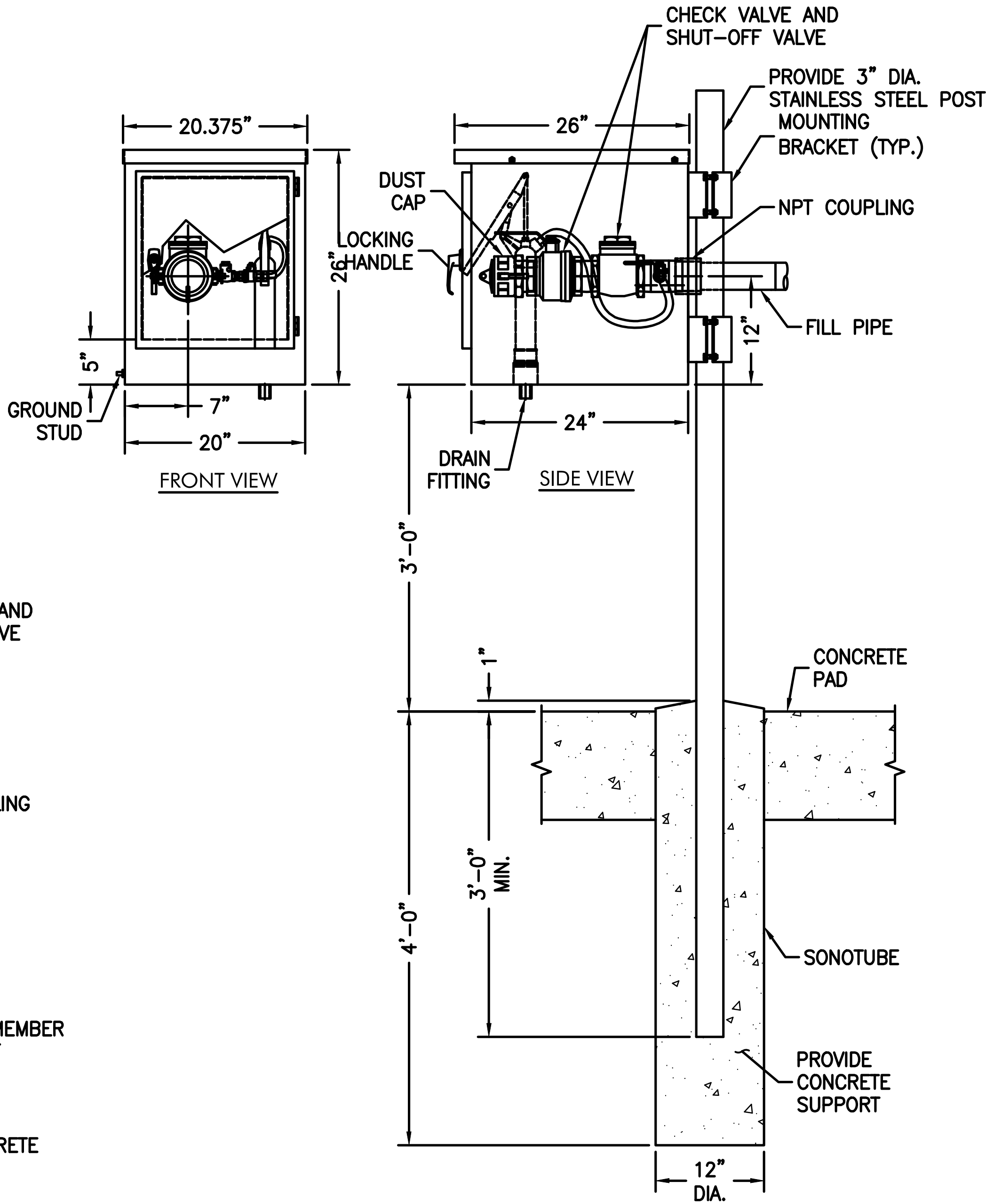
29

OF

51



TYPICAL SPILL CONTAINMENT STAND MOUNT DETAIL
SCALE: NONE



TYPICAL SPILL CONTAINMENT POST MOUNT DETAIL
SCALE: NONE

10-GALLON SPILL CONTAINMENT
FAIRFIELD INDUSTRIES ARFP SERIES OR EQUAL

Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT:

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

SHEET TITLE:

SPILL CONTAINMENT
MOUNTING DETAILS

DRAWING NUMBER: C-28

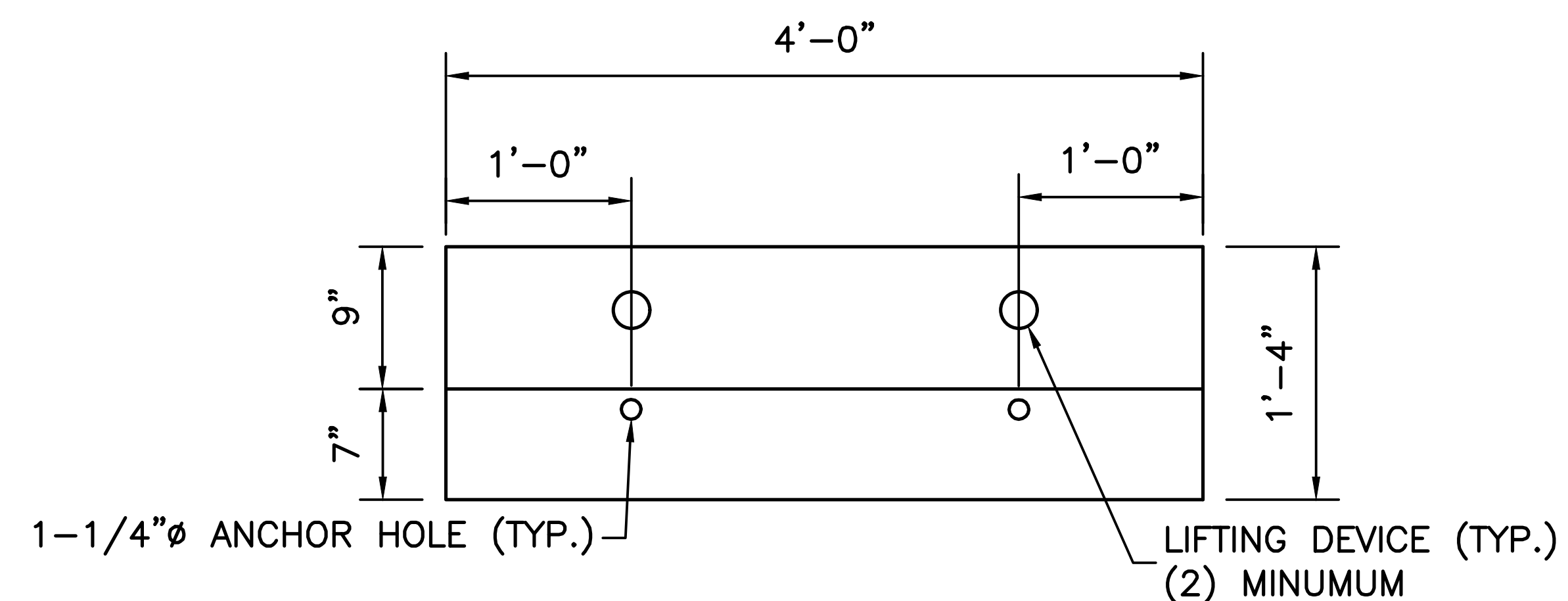
SHEET 30 OF 51



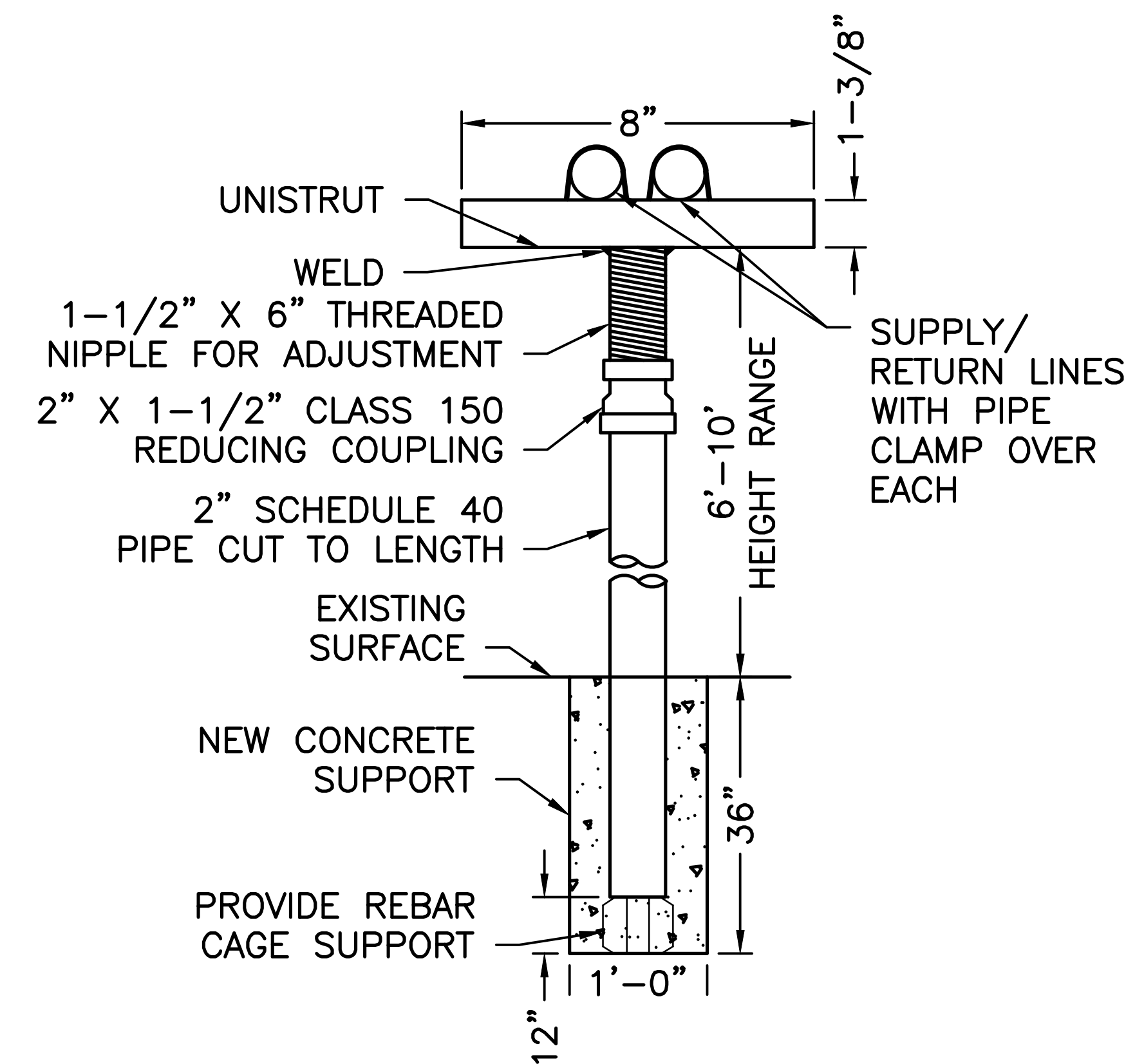
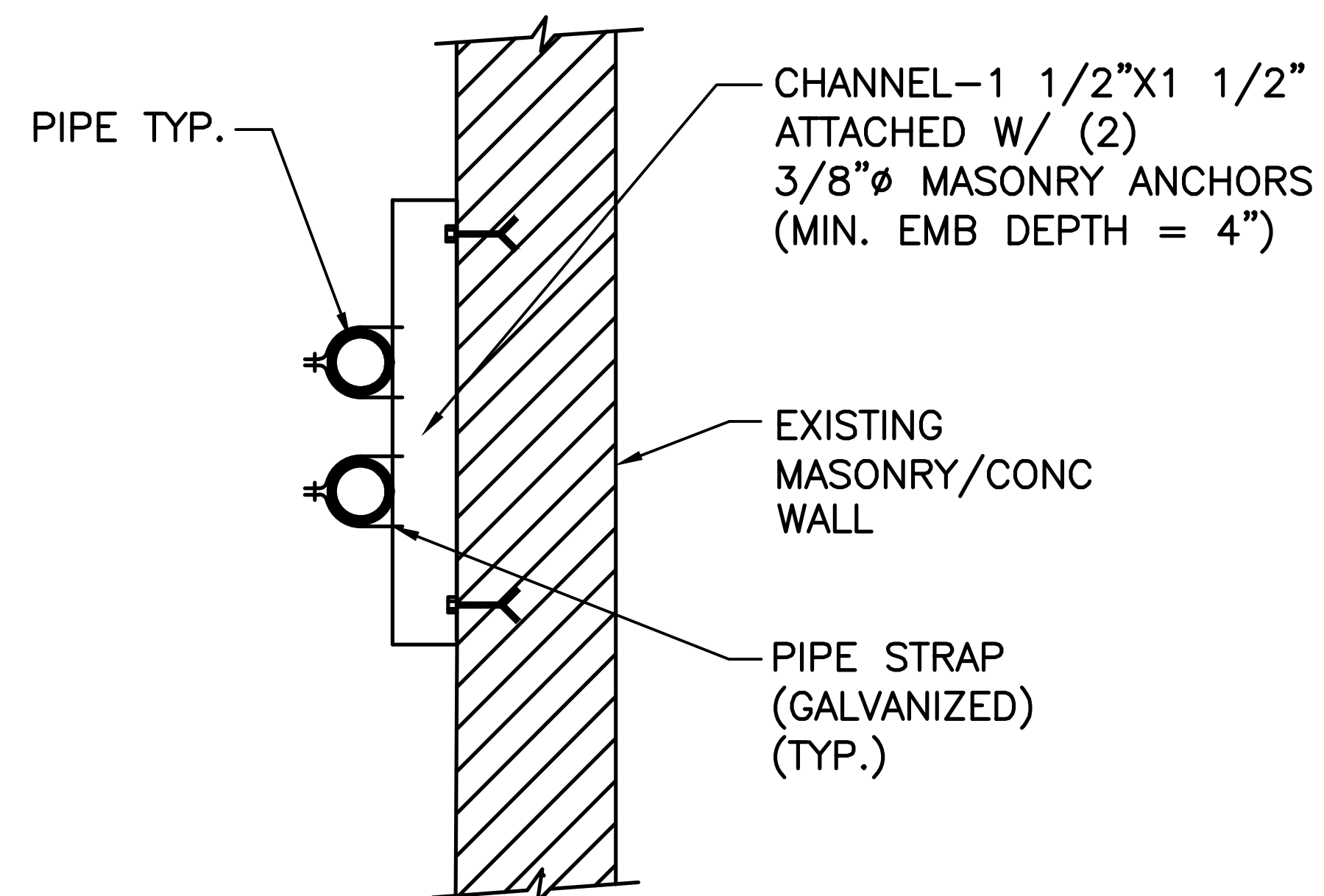
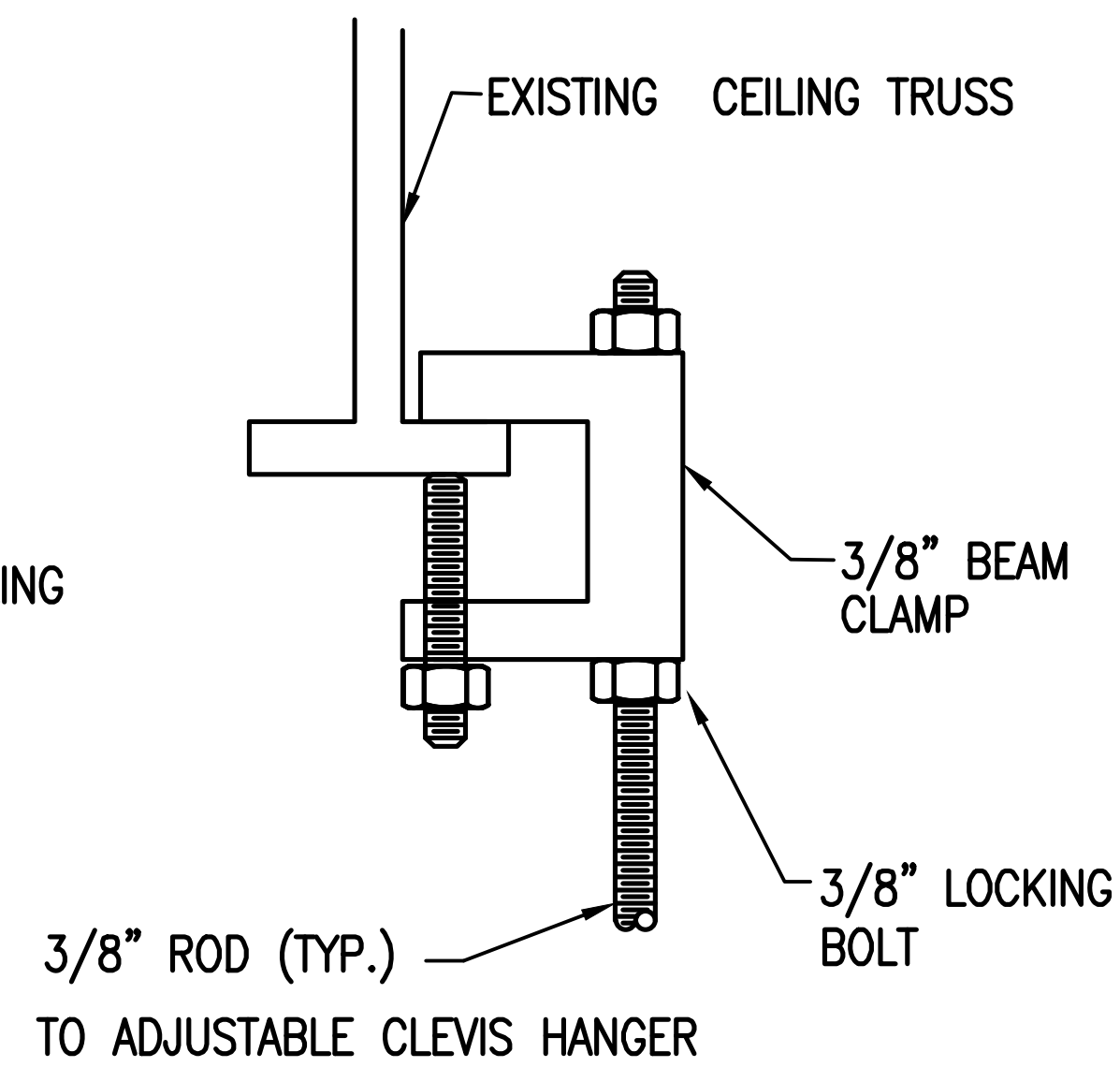
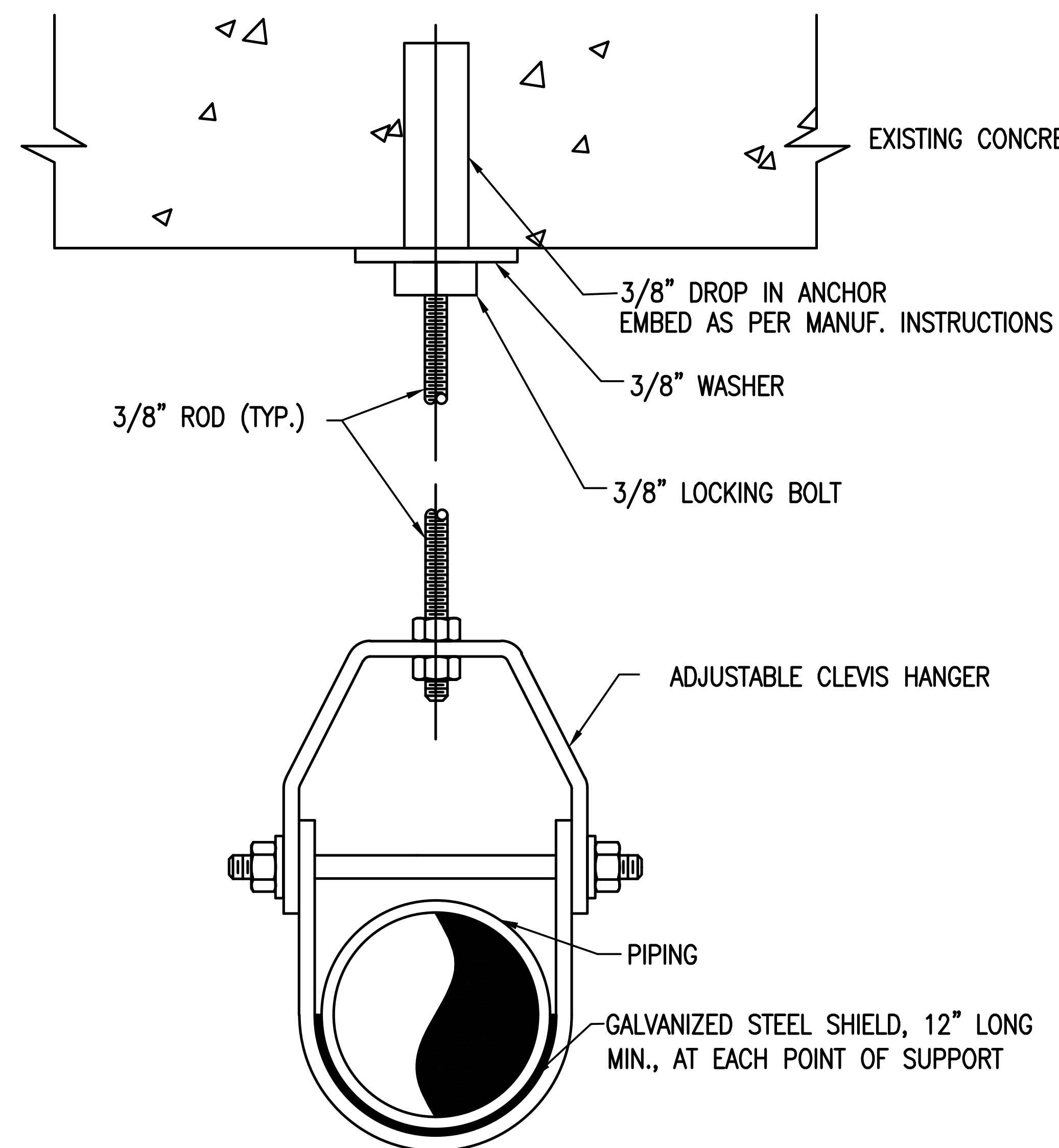
1. CONCRETE FOR THE SLAB-ON-GRADE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. CONCRETE FOR THE PRECAST CONCRETE BARRIER SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
3. ANCHOR RODS SHALL BE 7/8" DIAMETER AND HAVE AN ULTIMATE TENSILE STRENGTH OF 60 KSI.
4. THE 4"x4"x1/2" STEEL PLATE SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI.
5. ANCHOR RODS SHALL BE DRILLED AND GROUTED INTO CONCRETE SLAB USING HILTI HVU CAPSULE ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL. ULTIMATE BOND/CONCRETE CAPACITY IN TENSION SHALL BE 36 KIPS.
6. AFTER ANCHOR RODS ARE INSTALLED IN CONCRETE SLAB, SET PRECAST BARRIER AND GROUT ANCHOR ROD HOLES IN BARRIER WITH NON-SHRINK GROUT FROM NYSDOT APPROVED MATERIALS LIST.
7. AFTER ANCHOR ROD HOLES ARE GROUTED, INSTALL 4"x4"x1/2" STEEL PLATE AND HEX NUT. TIGHTEN HEX NUT AND GROUT BLOCK-OUTS IN BARRIER WITH NON-SHRINK GROUT.
8. PROVIDE MINIMUM 3 FOOT DISTANCE BETWEEN THE TANK AND BOLLARD/BARRIER FOR NON IMPACT RESISTANT TANKS. IN ACCORDANCE WITH 2020 FIRE CODE OF NYS 2306.4 PHYSICAL PROTECTION, BOLLARDS/BARRIERS ARE NOT REQUIRED FOR UL-2085 IMPACT RESISTANT TANKS. THE BOLLARDS/BARRIERS WILL SERVE AS SECONDARY PROTECTION AND THE 3 FOOT DISTANCE MAY BE REDUCED.
9. PROVIDE BARRIERS THAT ARE A MINIMUM 36" IN HEIGHT RELATIVE TO SURROUNDING GRADE. BARRIERS MAY BE REDUCED IN HEIGHT IF PLACED ON RAISED PAD.



1. FOR 4'-0" BARRIER A MINIMUM OF TWO (2) ANCHOR HOLES ARE REQUIRED.
2. FOR 8'-0" BARRIER A MINIMUM OF THREE (3) ANCHOR HOLES ARE REQUIRED.



	1/31/2025	FINAL SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47675	— C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:		
<p style="text-align: center;">CONCRETE BARRIER ANCHORING DETAILS</p>		
DRAWING NUMBER:		
<p style="text-align: center;">C-29</p>		
SHEET	31	OF 51

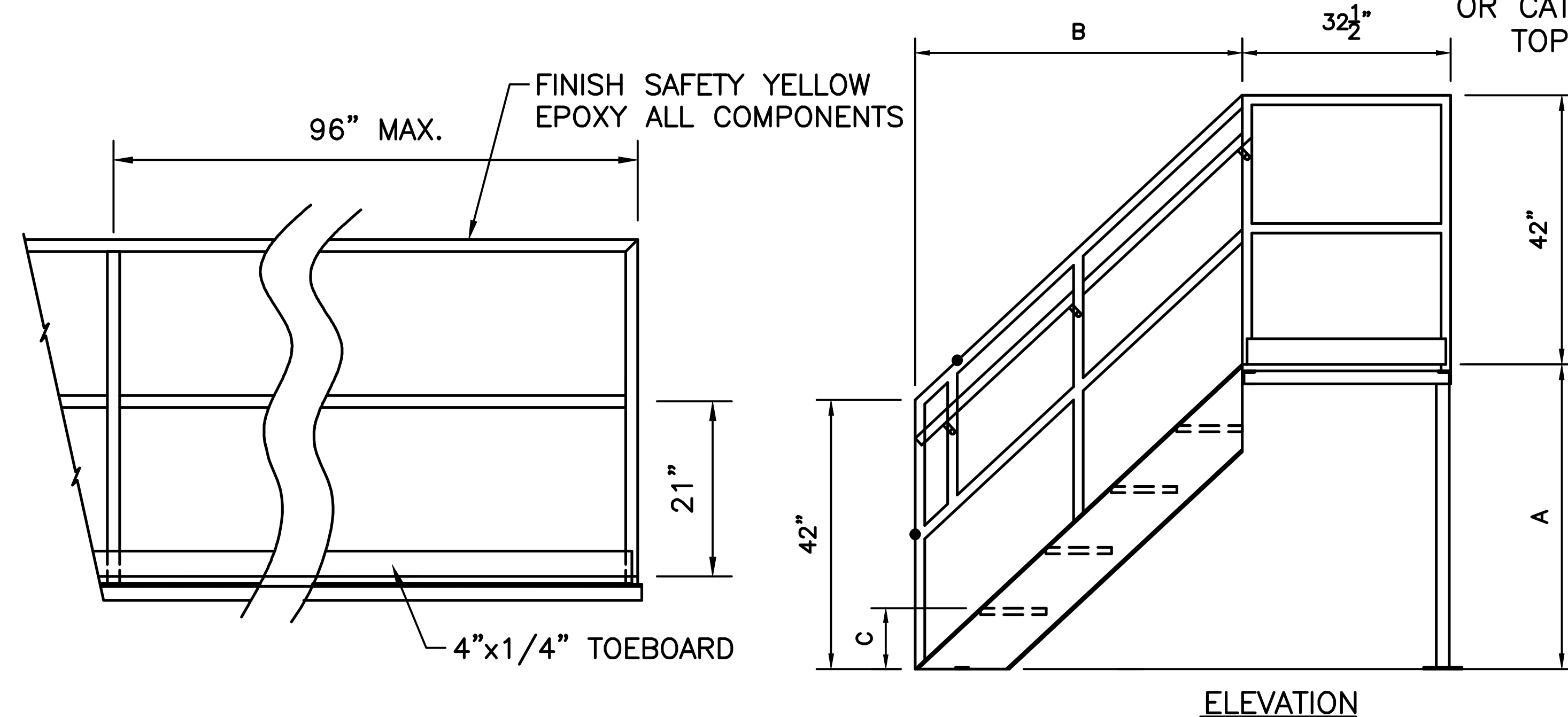
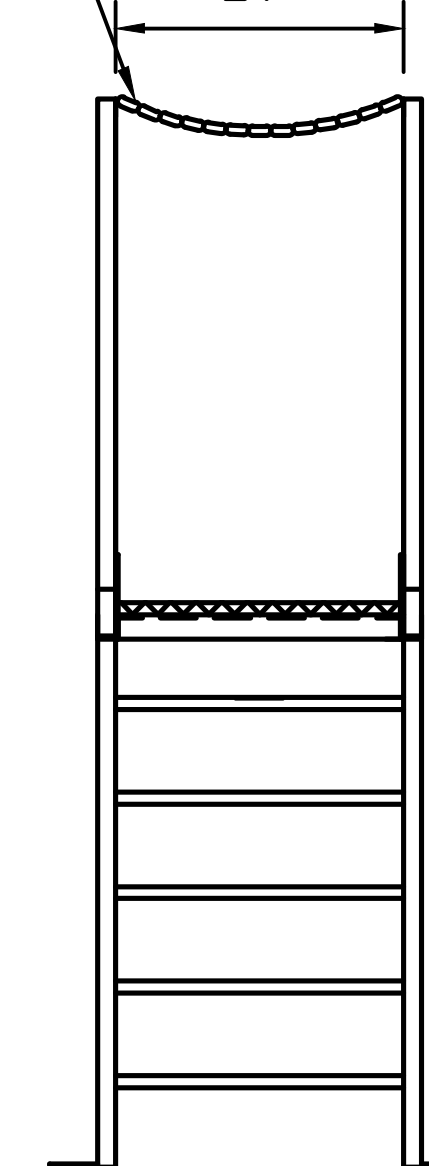


NOTES:

1. CONFIRM OSHA COMPLIANT STAIRS, PLATFORM AND HANDRAILS WITH MANUFACTURER PRIOR TO ORDERING ASSOCIATED TANK.
2. CONSULT WITH MANUFACTURER FOR STAIRS FOR TANKS LARGER THAN 96" DIAMETER.

STAIR AND HANDRAILS SCHEDULE			
TANK SIZE (DIAMETER)	48"	64"	96"
A	30"	47"	72"
B	29 11/16"	47 1/4"	72 5/8"
C	10"	9 3/8"	9"

SAFETY CHAIN AT
TANK SIDE PLATFORM
OR CATWALK AND
TOP OF STAIR

ELEVATION

END VIEW

6"Ø O.D. GALVANIZED
CONCRETE FILLED
PIPE- WITH YELLOW
BUMPER POST SLEEVE

CROWN 1" AND
TROWEL SMOOTH —
FINISHED GRADE —

CONCRETE

PROVIDE REBAR
CAGE SUPPORT

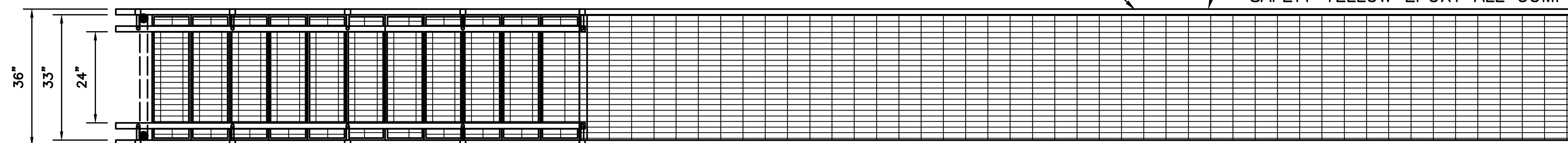
16" MIN.

BOLLARD DETAIL

SCALE: NONE

POST AND HANDRAIL DETAIL

SCALE: NONE



STAIR DETAIL

SCALE: NONE

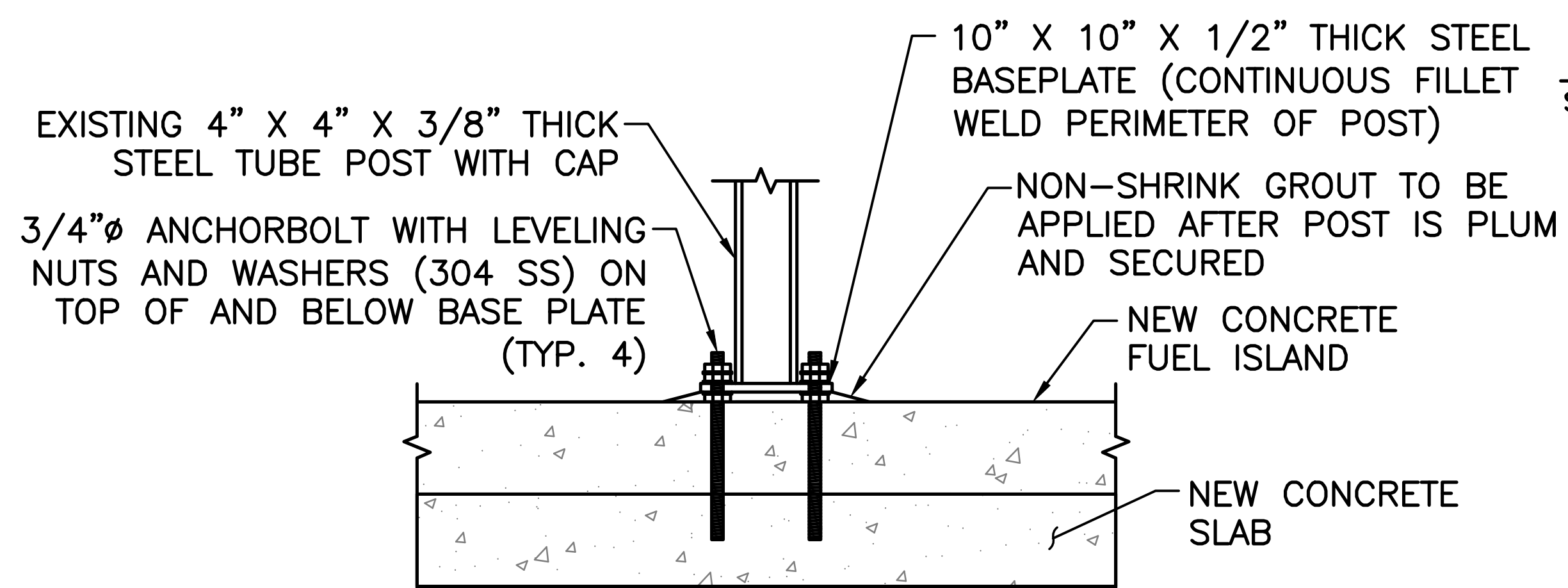
POST AND CHAIN (TYP.)

— BOLT TO TANK CATWALK ASSEMBLY WITH
1' THICK FIBERGLASS GRATING, FINISH
SAFETY YELLOW EPOXY ALL COMPONENTS

POST AND HANDRAIL (TYP.)

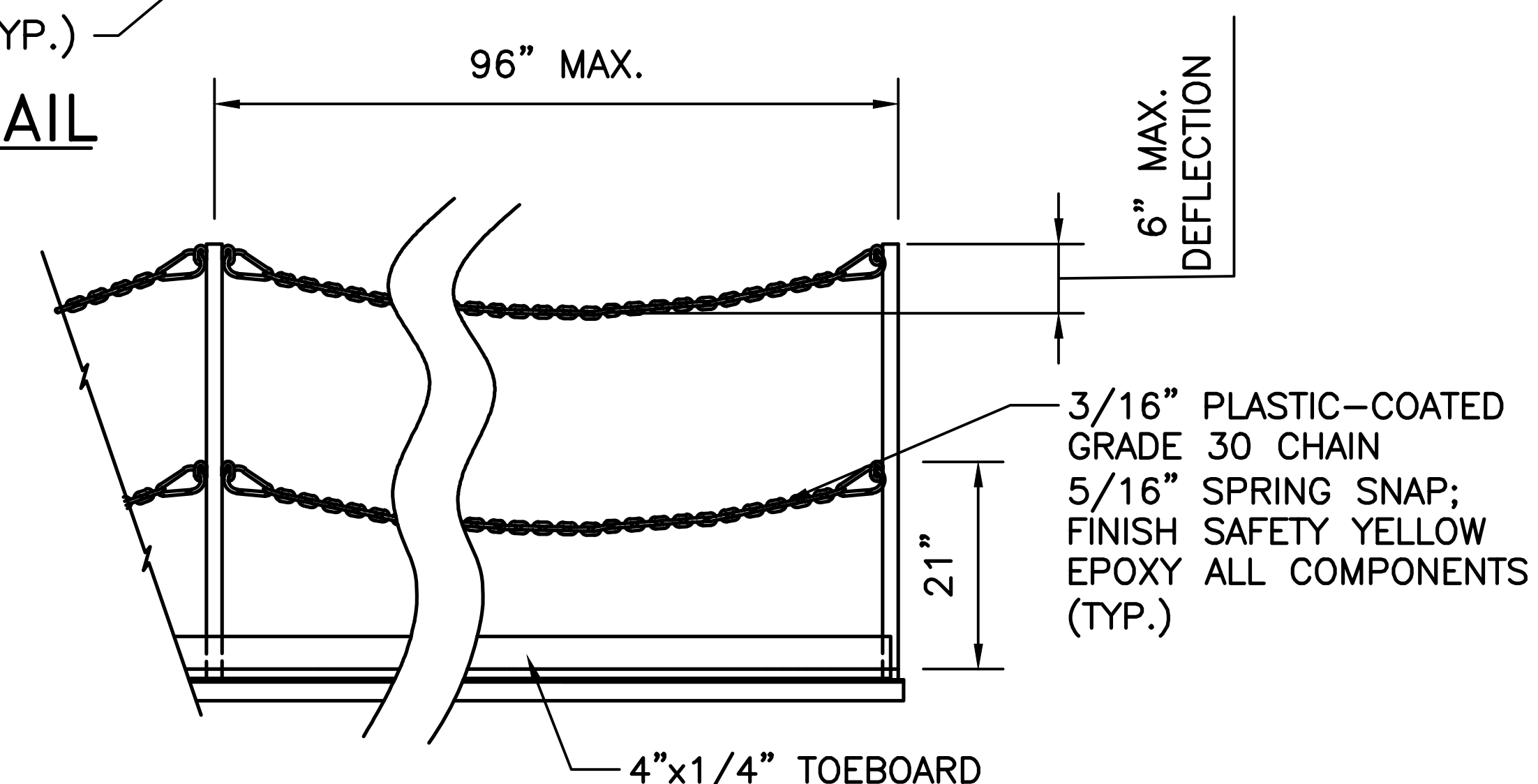
CATWALK DETAIL

SCALE: NONE



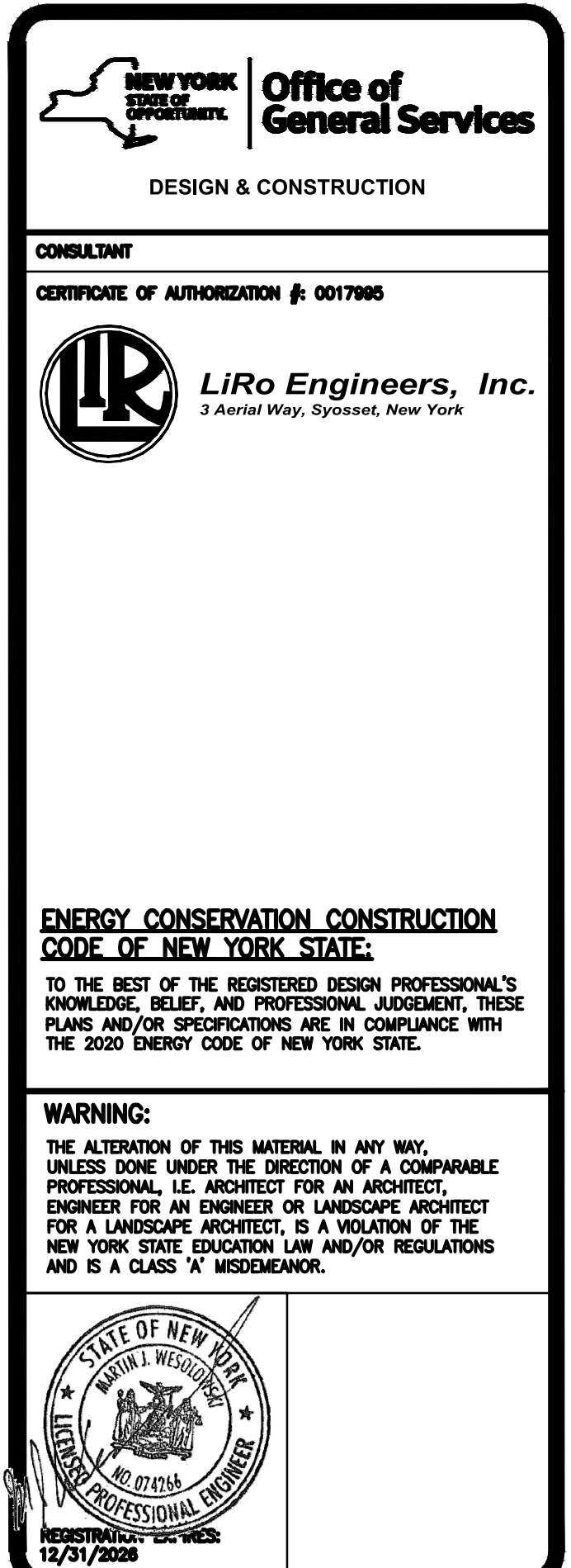
FIRE SUPPRESSION SYSTEM SUPPORT POST PLATE ANCHOR DETAIL

SCALE: NONE



POST AND CHAIN DETAIL

SCALE: NONE



CONSTRUCTION

TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

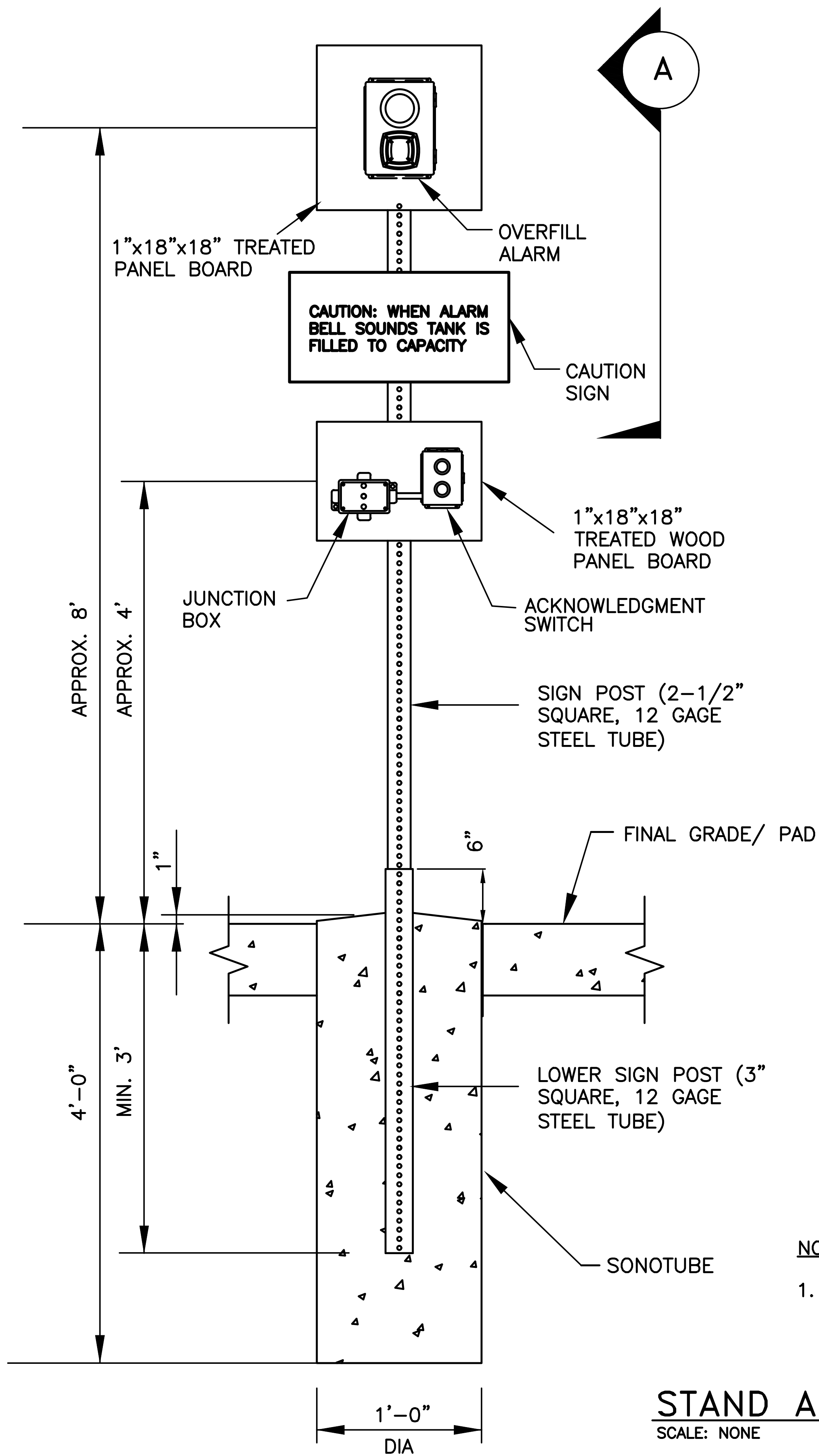
LOCATION: CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47675	C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

STAIR, BOLLARD AND FIRE SUPPRESSION POST MOUNTING DETAILS

DRAWING NUMBER: C-31

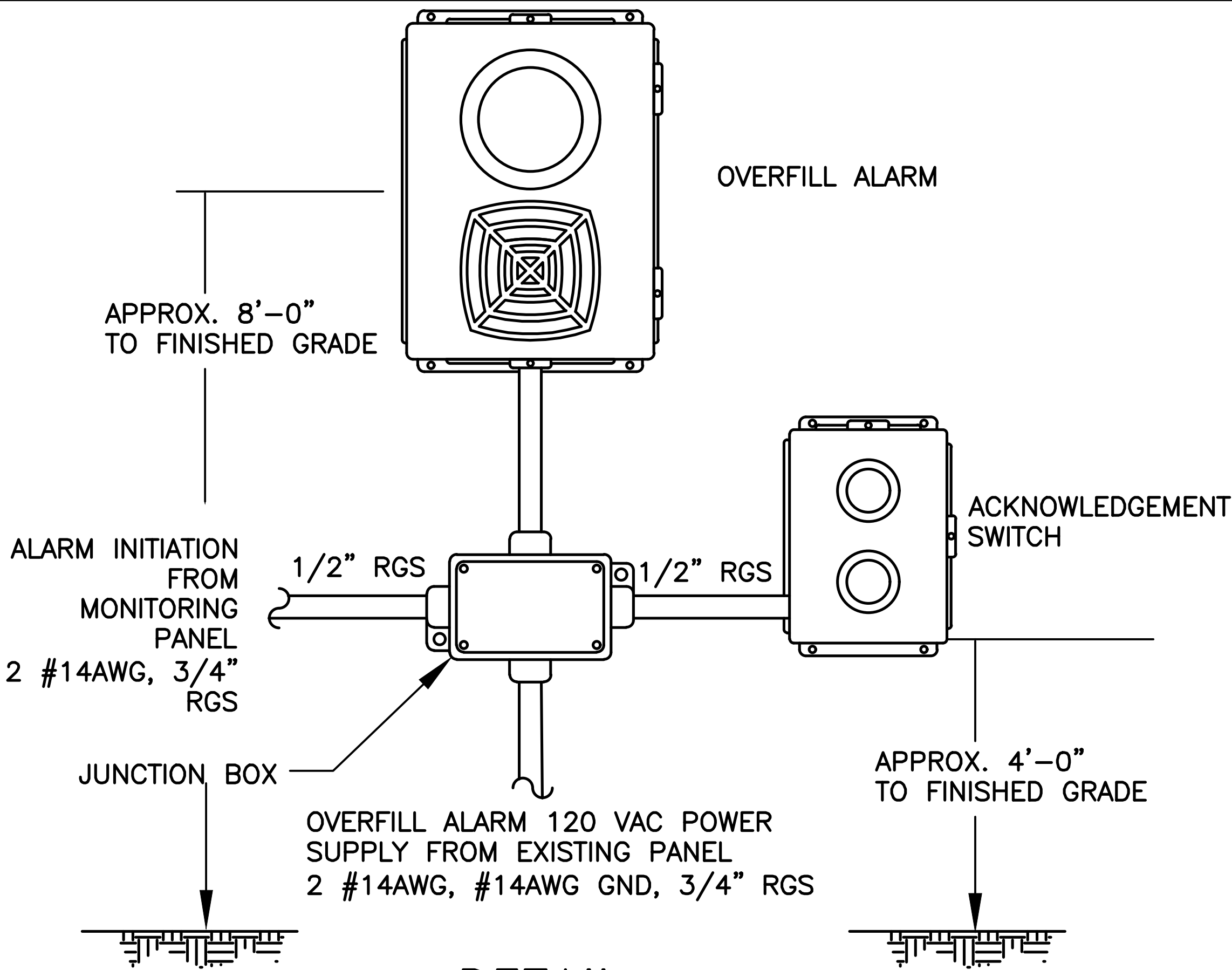
SHEET 33 OF 51



- NOTE:
1. ALARM TO BE POSITIONED IN CLOSE PROXIMITY AND IN CLEAR VIEW OF FILL PORT.

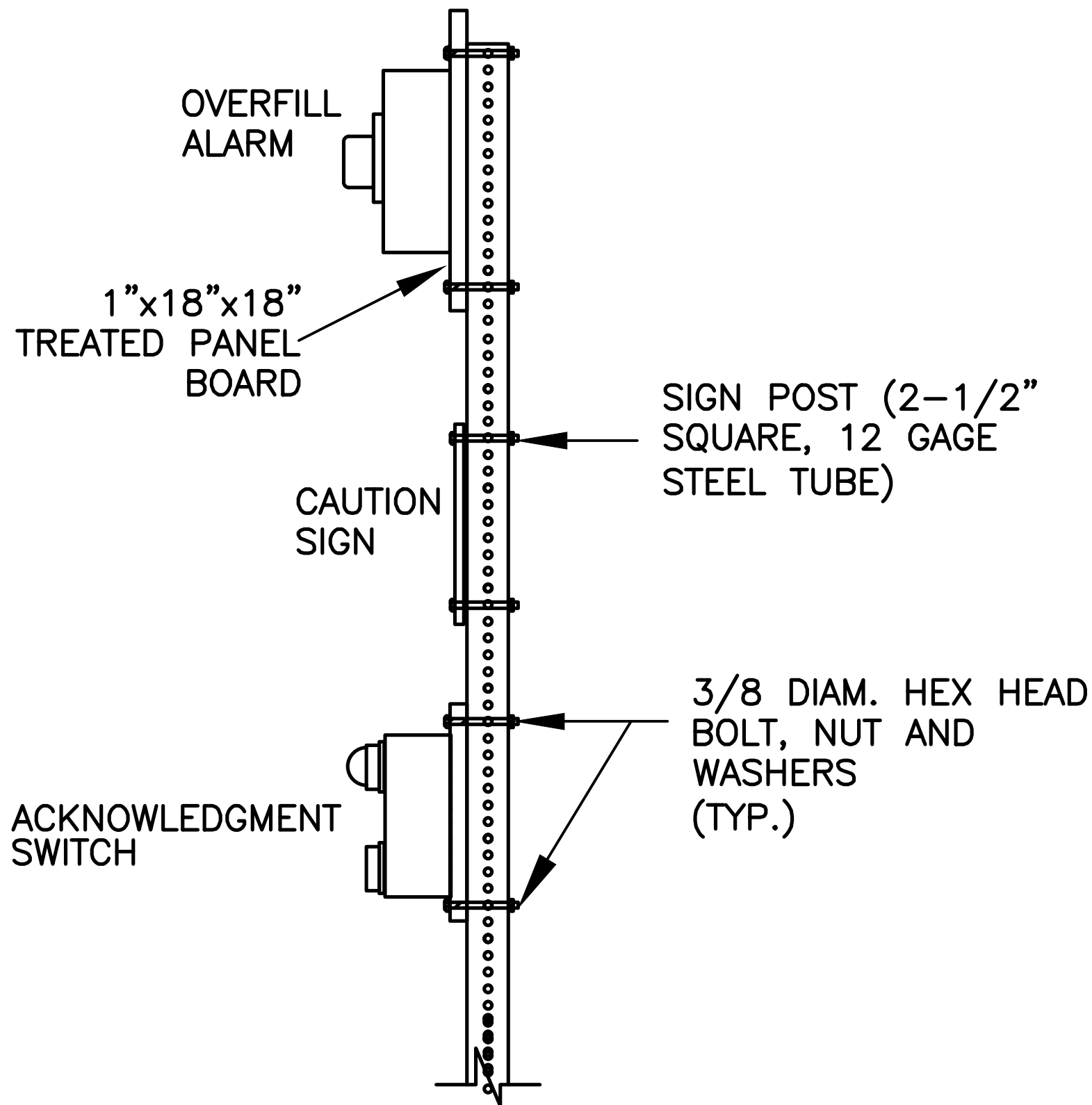
STAND ALONE ALARM AND DETAIL

SCALE: NONE



DETAIL

SCALE: NONE



VIEW A

SCALE: NONE

Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017905

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CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

OVERFILL ACKNOWLEDGMENT ALARM DETAILS

DRAWING NUMBER:

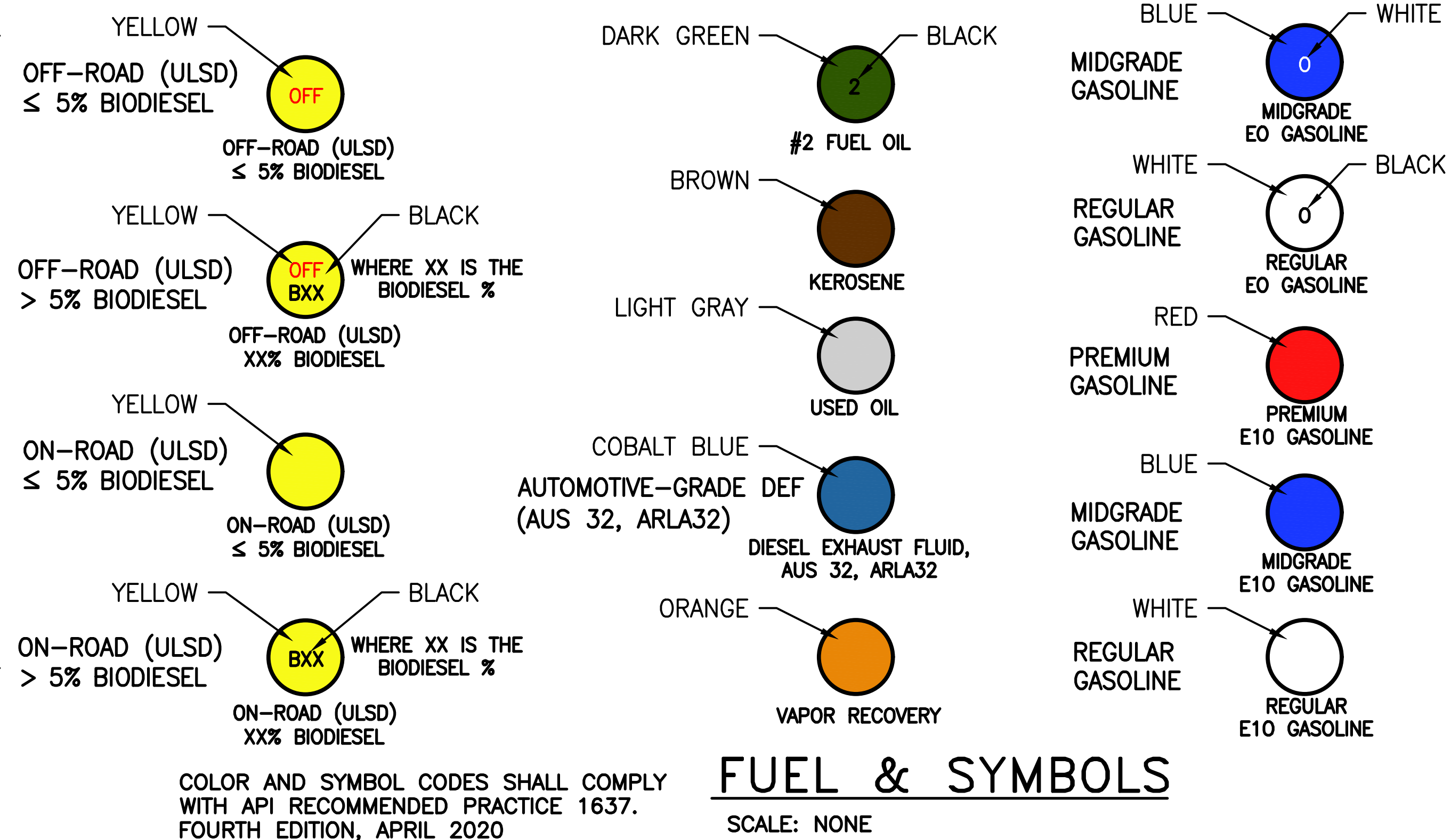
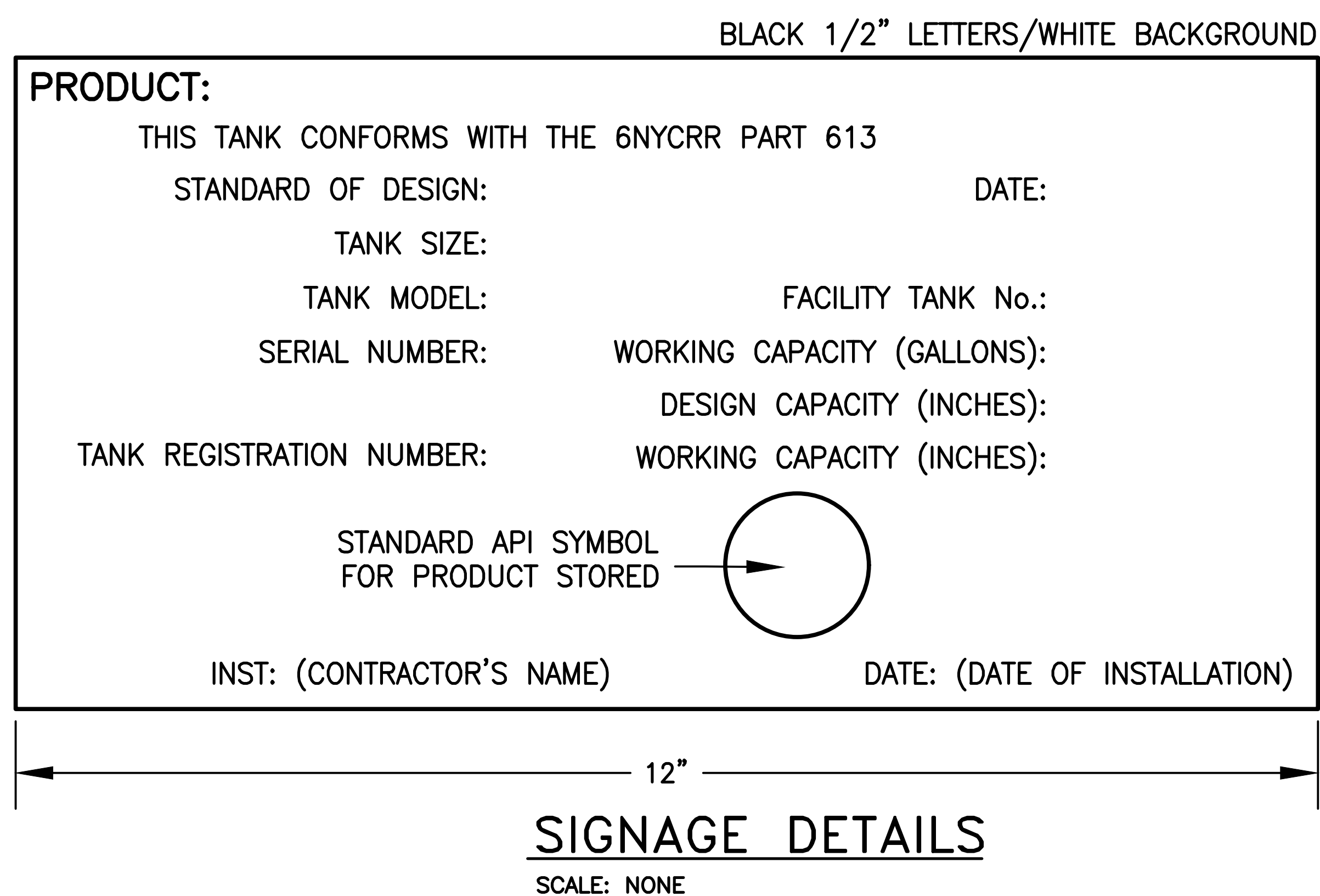
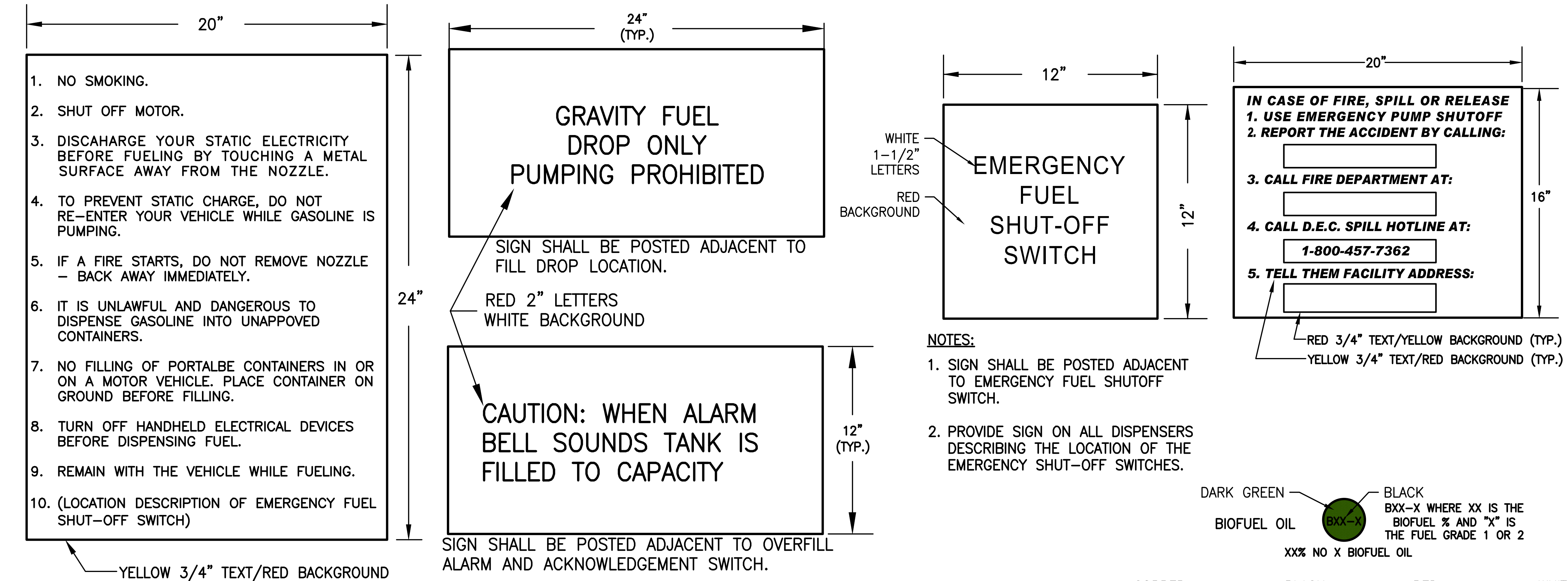
C-32

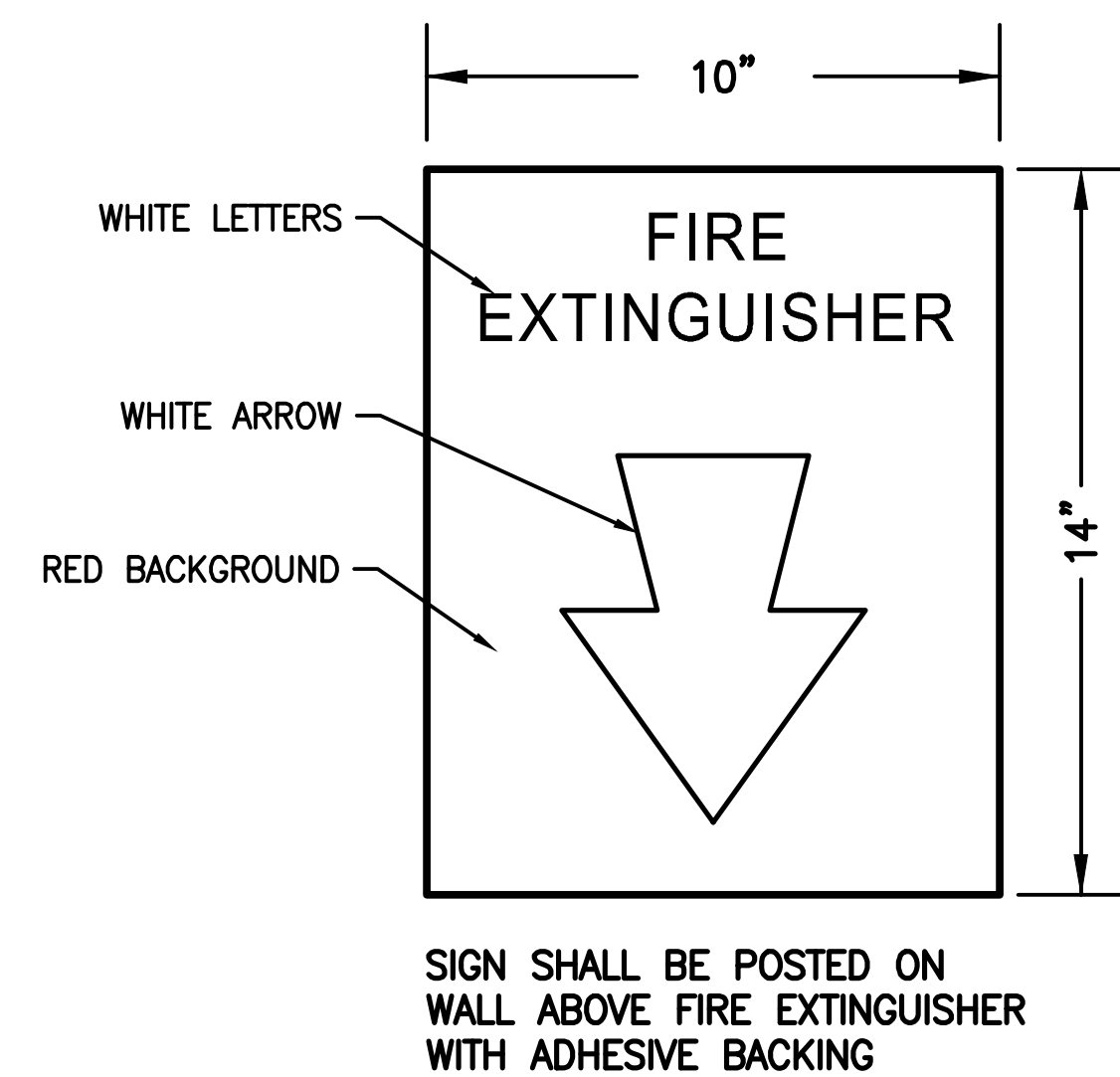
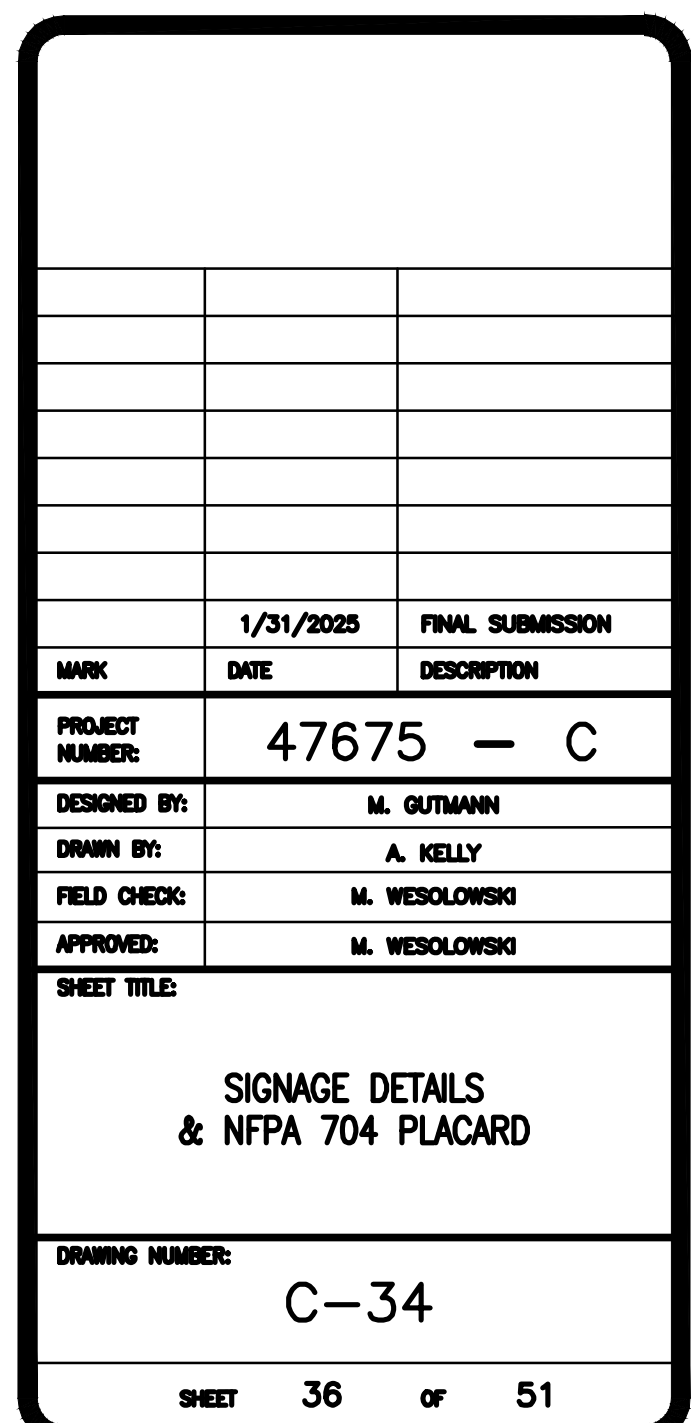
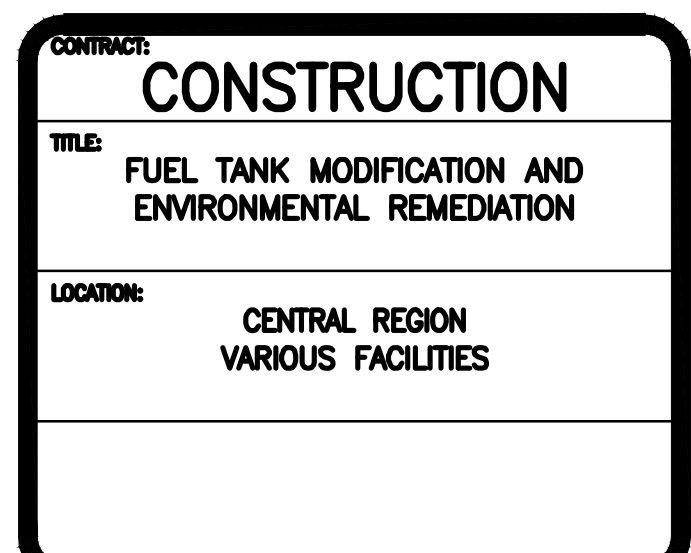
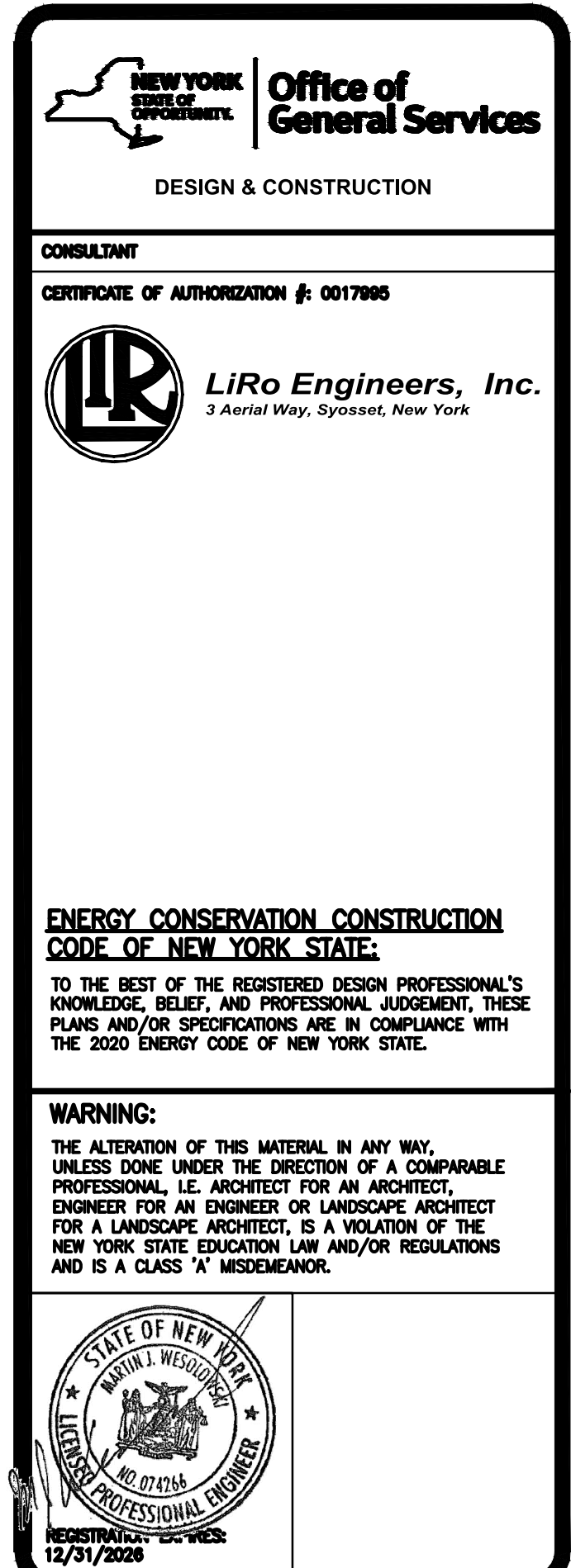
SHEET 34 OF 51

CONTRACT:	
CONSTRUCTION	
TITLE:	FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION
LOCATION:	CENTRAL REGION VARIOUS FACILITIES

	1/31/2025	FINAL SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47675 — C	
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

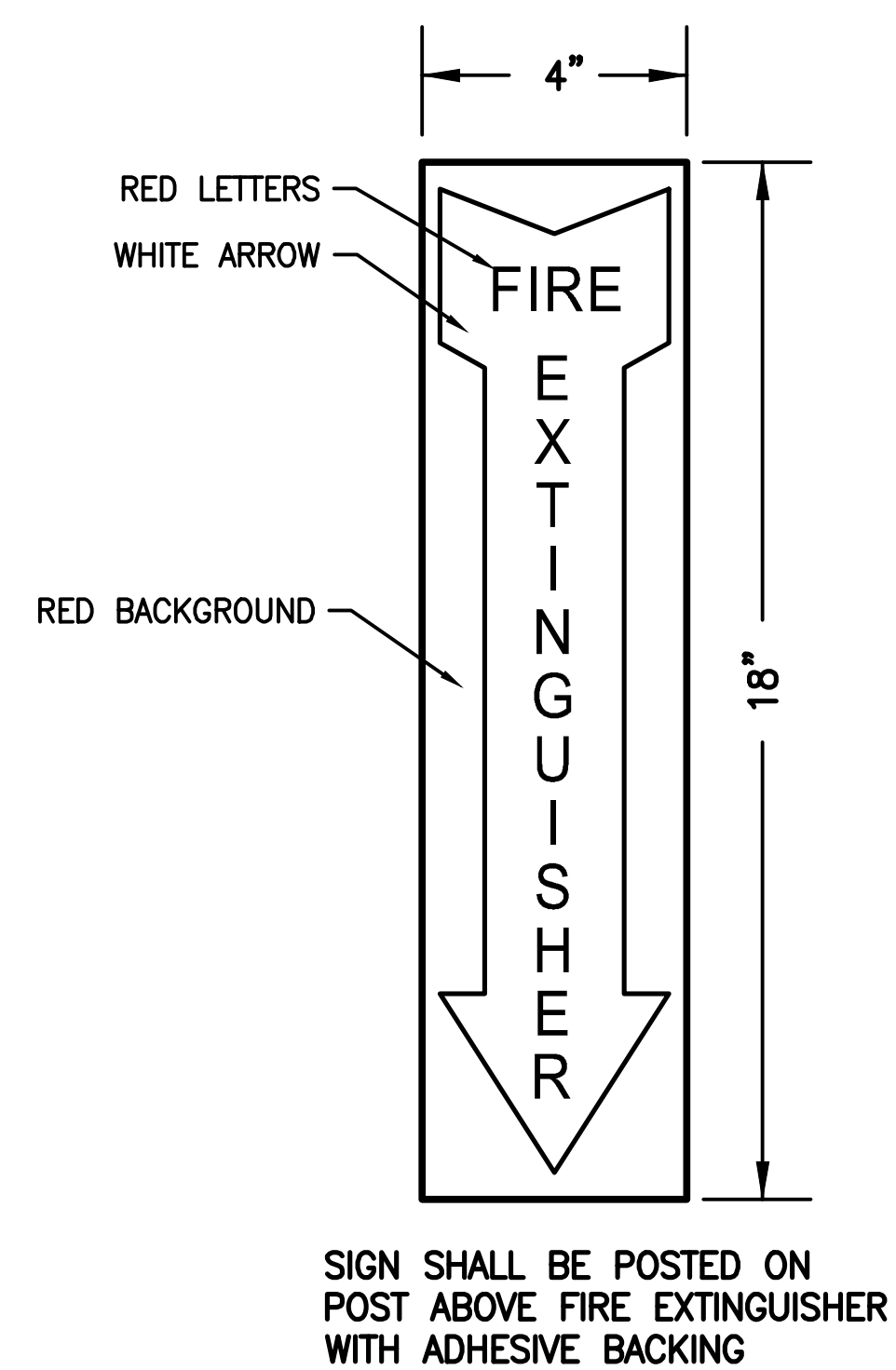
SHEET TITLE:		
SIGNAGE DETAILS & FUEL COLOR CODING DETAILS		
DRAWING NUMBER:		
C-33		
SHEET	35	of 51





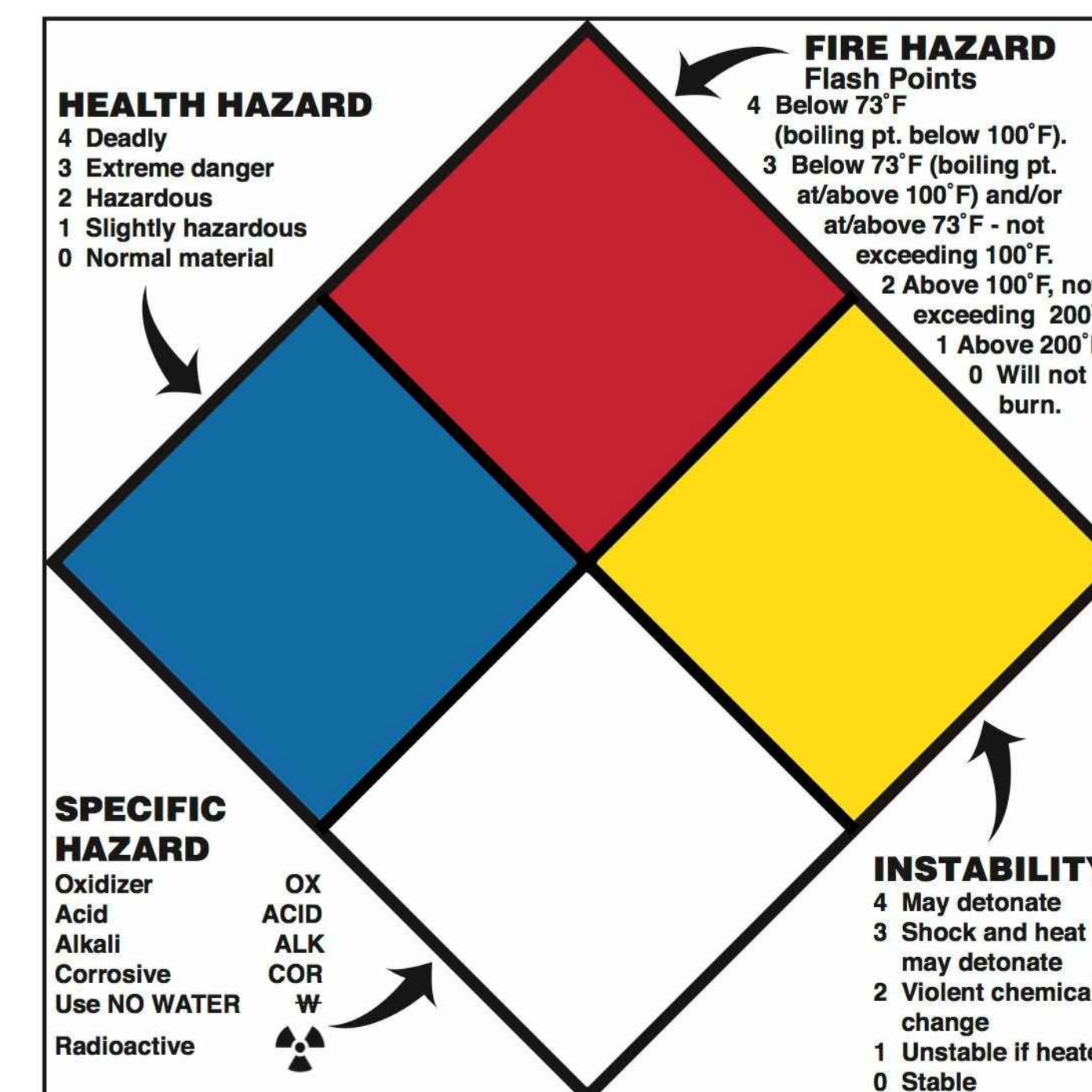
WALL MOUNT FIRE EXTINGUISHER SIGNAGE DETAIL

SCALE: NONE



POST MOUNT FIRE EXTINGUISHER SIGNAGE DETAIL

SCALE: NONE



NFPA 704 STANDARD SYSTEM FOR THE IDENTIFICATION OF THE HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE

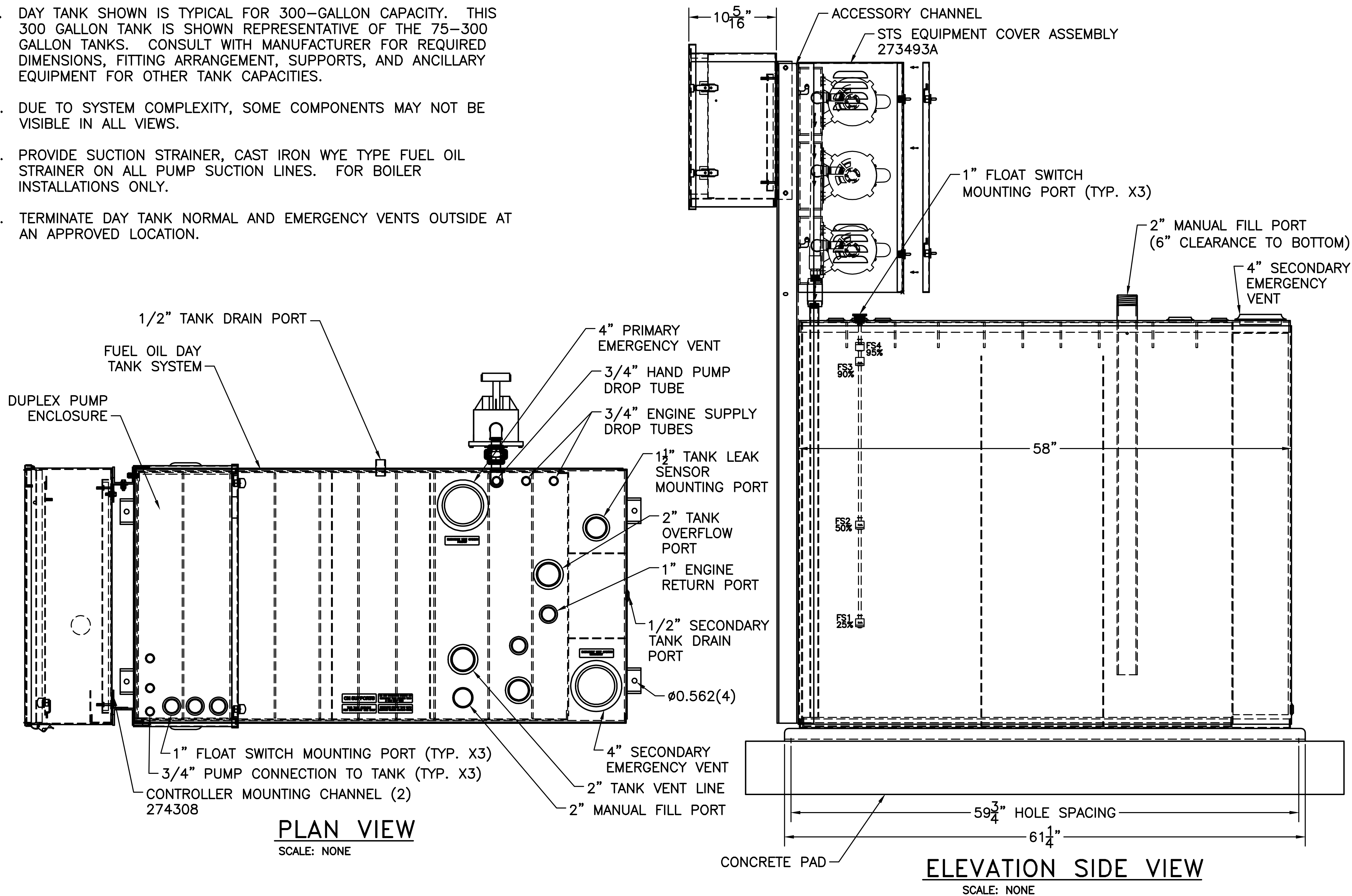
SCALE: NONE

NOTES:

1. INSTALL LABEL ON ALL TANKS. LABEL SHALL BE SPECIFIC TO THE MATERIAL STORED IN ACCORDANCE WITH NFPA 704.
2. LABEL SHALL BE VINYL WITH SELF-ADHESIVE BACKING

NOTES:

1. DAY TANK SHOWN IS TYPICAL FOR 300-GALLON CAPACITY. THIS 300 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 75-300 GALLON TANKS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORTS, AND ANCILLARY EQUIPMENT FOR OTHER TANK CAPACITIES.
2. DUE TO SYSTEM COMPLEXITY, SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS.
3. PROVIDE SUCTION STRAINER, CAST IRON WYE TYPE FUEL OIL STRAINER ON ALL PUMP SUCTION LINES. FOR BOILER INSTALLATIONS ONLY.
4. TERMINATE DAY TANK NORMAL AND EMERGENCY VENTS OUTSIDE AT AN APPROVED LOCATION.



NEW YORK

STATE OF

CITY OF NEW YORK

Office of

General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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STATE OF NEW YORK

MARTIN J. WESOLOWSKI

REGISTERED PROFESSIONAL ENGINEER

NO. 07034

EXPIRATION DATE: 12/31/2026

CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

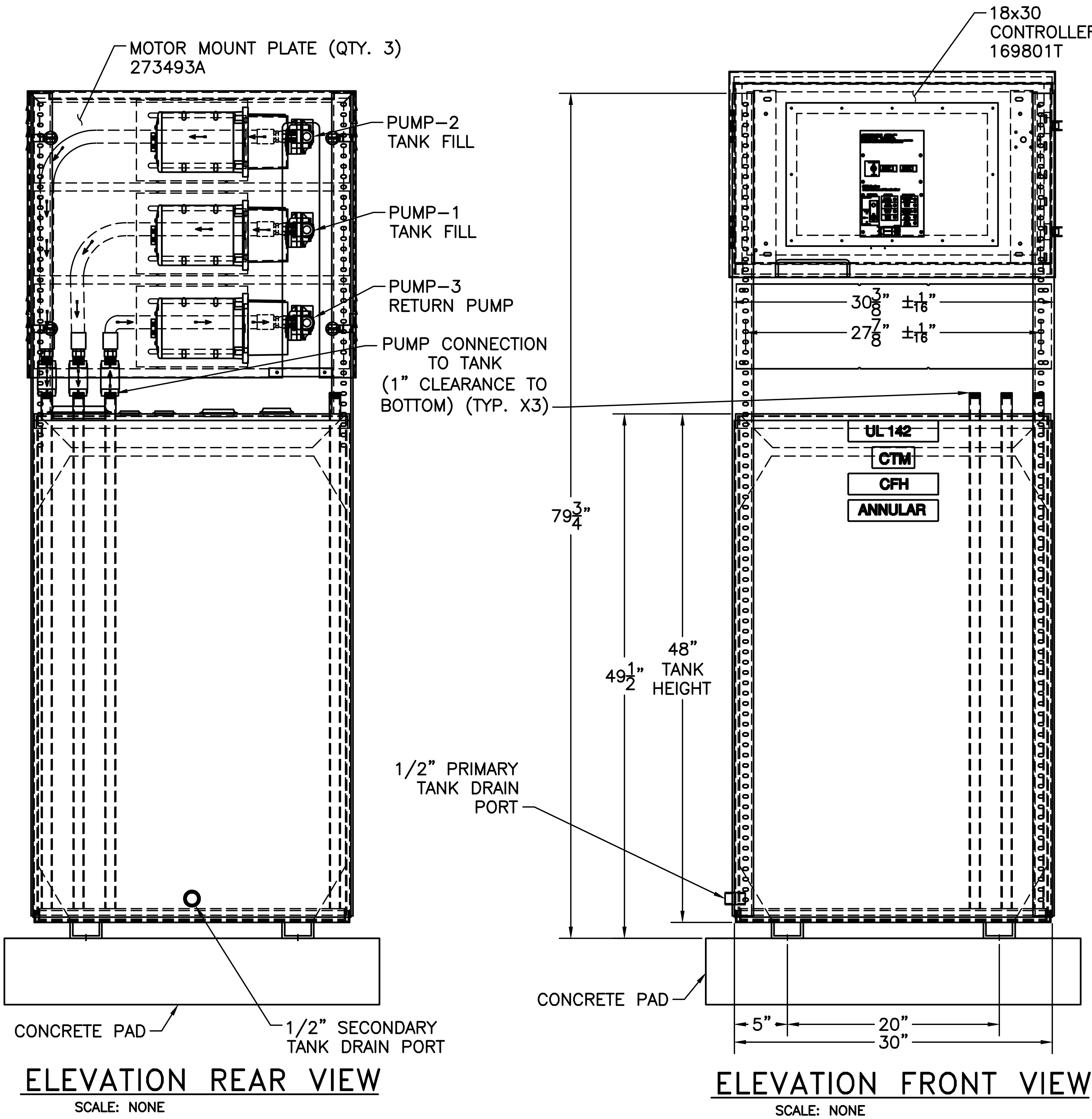
LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:	DAY TANK SHEET #1	
DRAWING NUMBER:	C-35	
SHEET	37	OF 51

NOTES:

1. DAY TANK SHOWN IS TYPICAL FOR 300-GALLON CAPACITY. THIS 300 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 75-300 GALLON TANKS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORTS, AND ANCILLARY EQUIPMENT FOR OTHER TANK CAPACITIES.
2. PROVIDE SUCTION STRAINER, CAST IRON WYE TYPE FUEL OIL STRAINER ON ALL PUMP SUCTION LINES. FOR BOILER INSTALLATION ONLY.
3. TERMINATE TANK NORMAL AND EMERGENCY VENTS OUTSIDE AT AN APPROVED LOCATION.




NEW YORK
STATE OF
CITY OF NEW YORK

Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985


 **LiRo Engineers, Inc.**
3 Aerial Way, Syosset, New York

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CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

SHEET TITLE:

DAY TANK SHEET #2

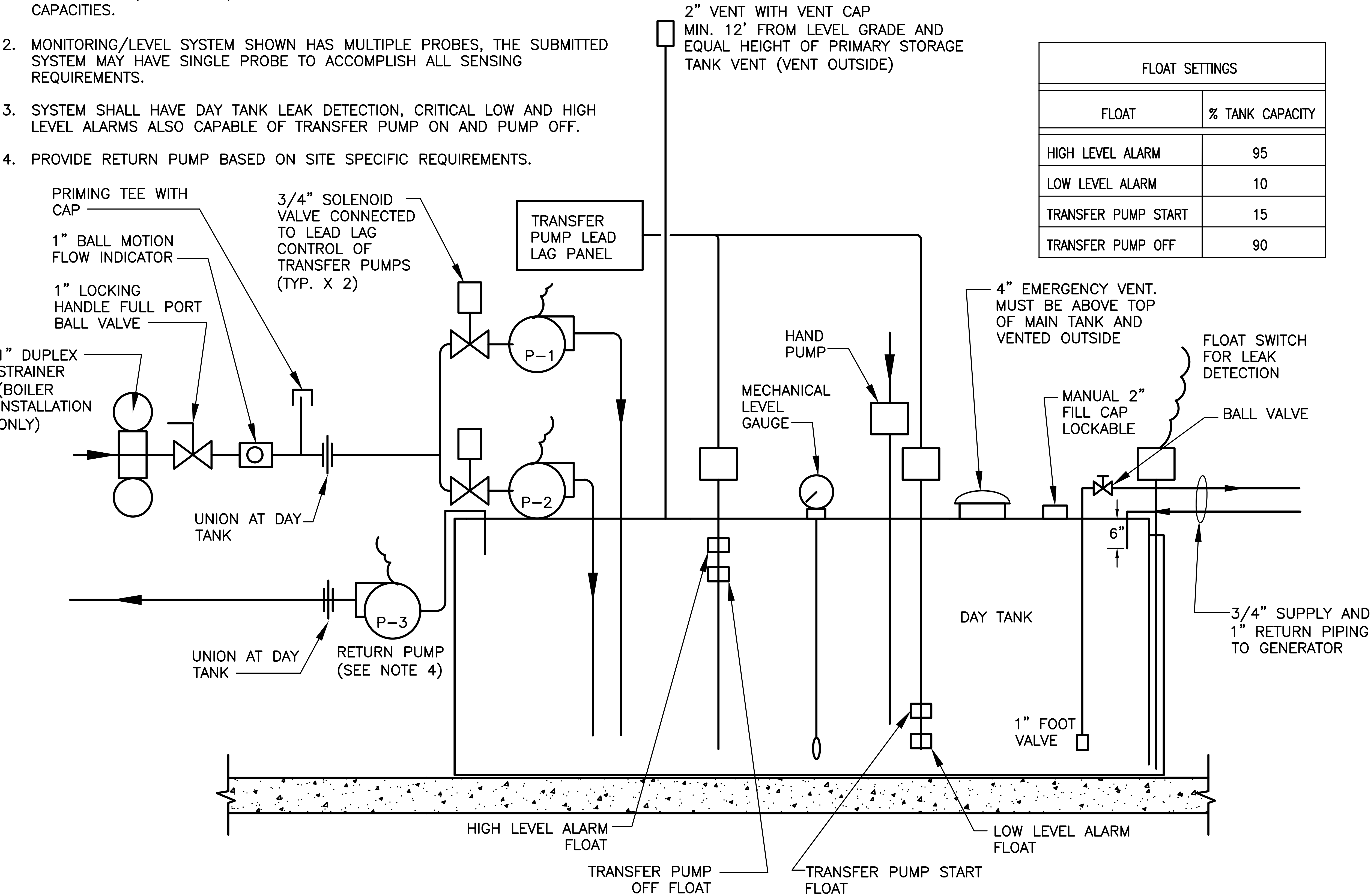
DRAWING NUMBER:

C-36

SHEET 38 OF 51

NOTES:

- 1. DAY TANK SHOWN IS TYPICAL FOR 300-GALLON CAPACITY. THIS 300 GALLON TANK IS SHOWN REPRESENTATIVE OF THE 75-300 GALLON TANKS. CONSULT WITH MANUFACTURER FOR REQUIRED DIMENSIONS, FITTING ARRANGEMENT, SUPPORTS, AND ANCILLARY EQUIPMENT FOR OTHER TANK CAPACITIES.
- 2. MONITORING/LEVEL SYSTEM SHOWN HAS MULTIPLE PROBES, THE SUBMITTED SYSTEM MAY HAVE SINGLE PROBE TO ACCOMPLISH ALL SENSING REQUIREMENTS.
- 3. SYSTEM SHALL HAVE DAY TANK LEAK DETECTION, CRITICAL LOW AND HIGH LEVEL ALARMS ALSO CAPABLE OF TRANSFER PUMP ON AND PUMP OFF.
- 4. PROVIDE RETURN PUMP BASED ON SITE SPECIFIC REQUIREMENTS.



DAY TANK DIAGRAM
SCALE: NONE

NEW YORK

STATE OF

DESIGN & CONSTRUCTION

Office of

General Services

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017995

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STATE OF NEW YORK

MAURICE J. WESOLOWSKI

REGISTERED PROFESSIONAL ENGINEER

12/31/2025

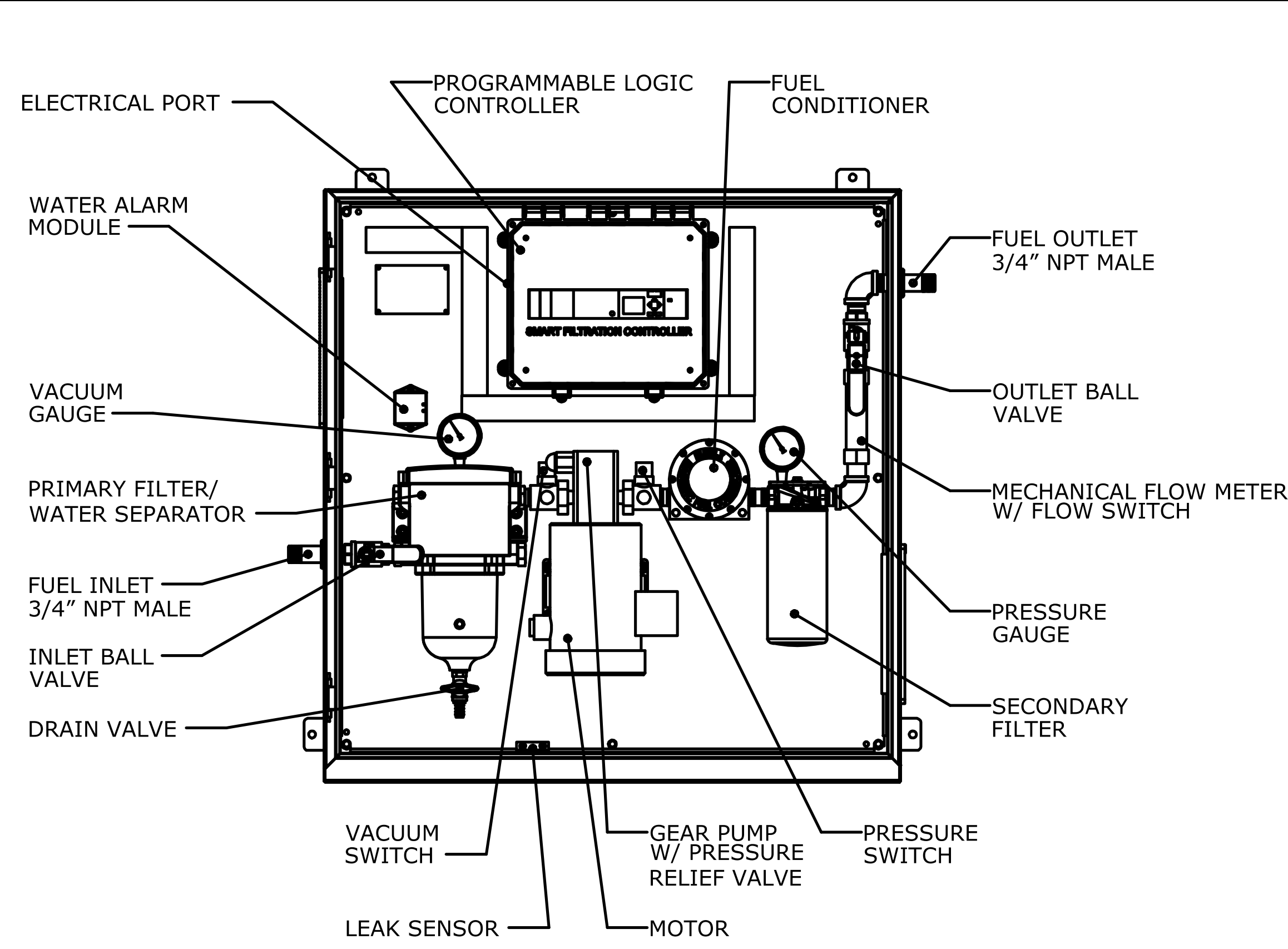
CONTRACT:

CONSTRUCTION

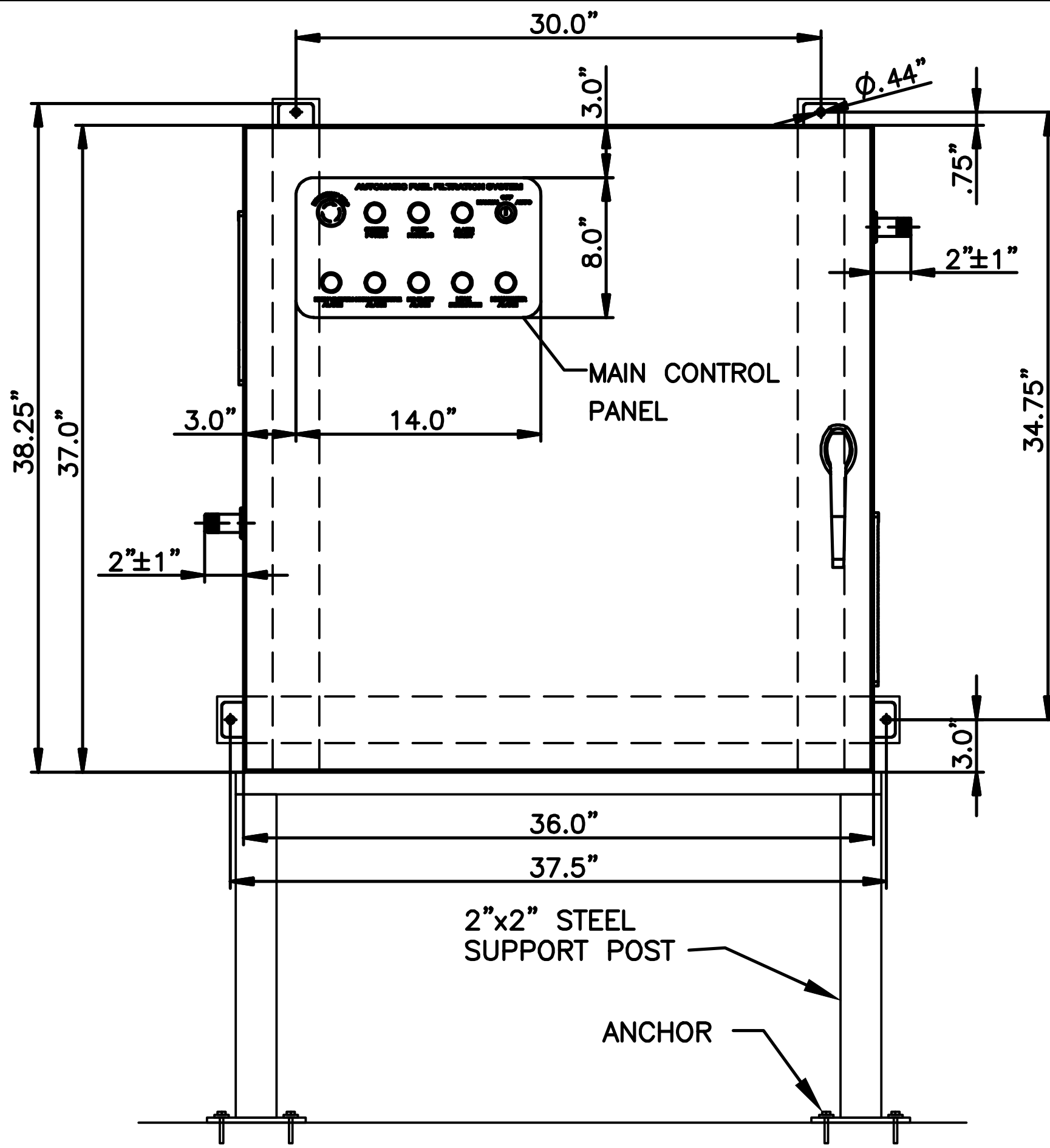
TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION: CENTRAL REGION VARIOUS FACILITIES

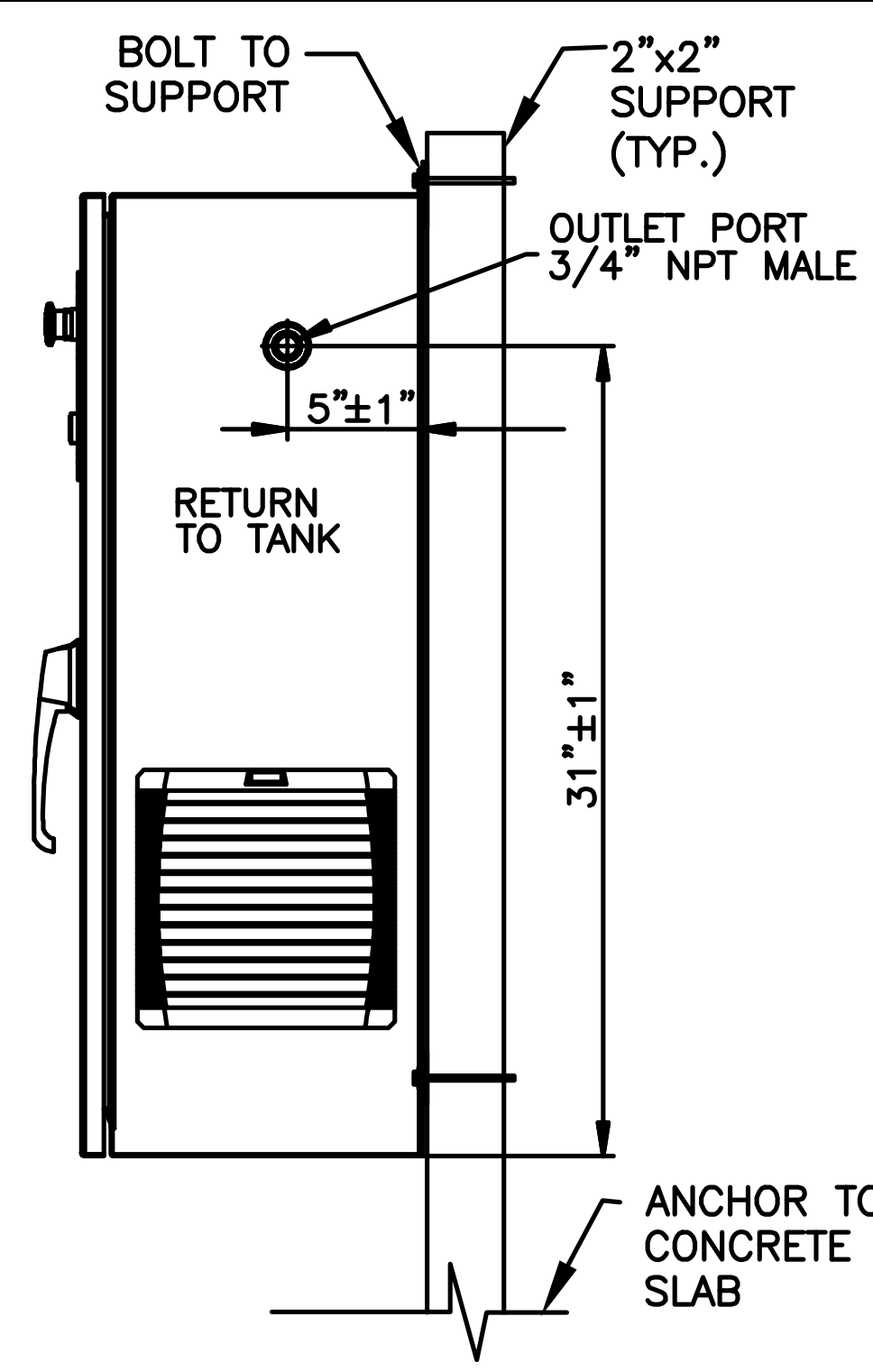
MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675 - C	
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	
SHEET TITLE:		
DOUBLEWALL ABOVEGROUND DAY TANK PIPING DIAGRAM		
DRAWING NUMBER:		
C-37		
SHEET 39 OF 51		



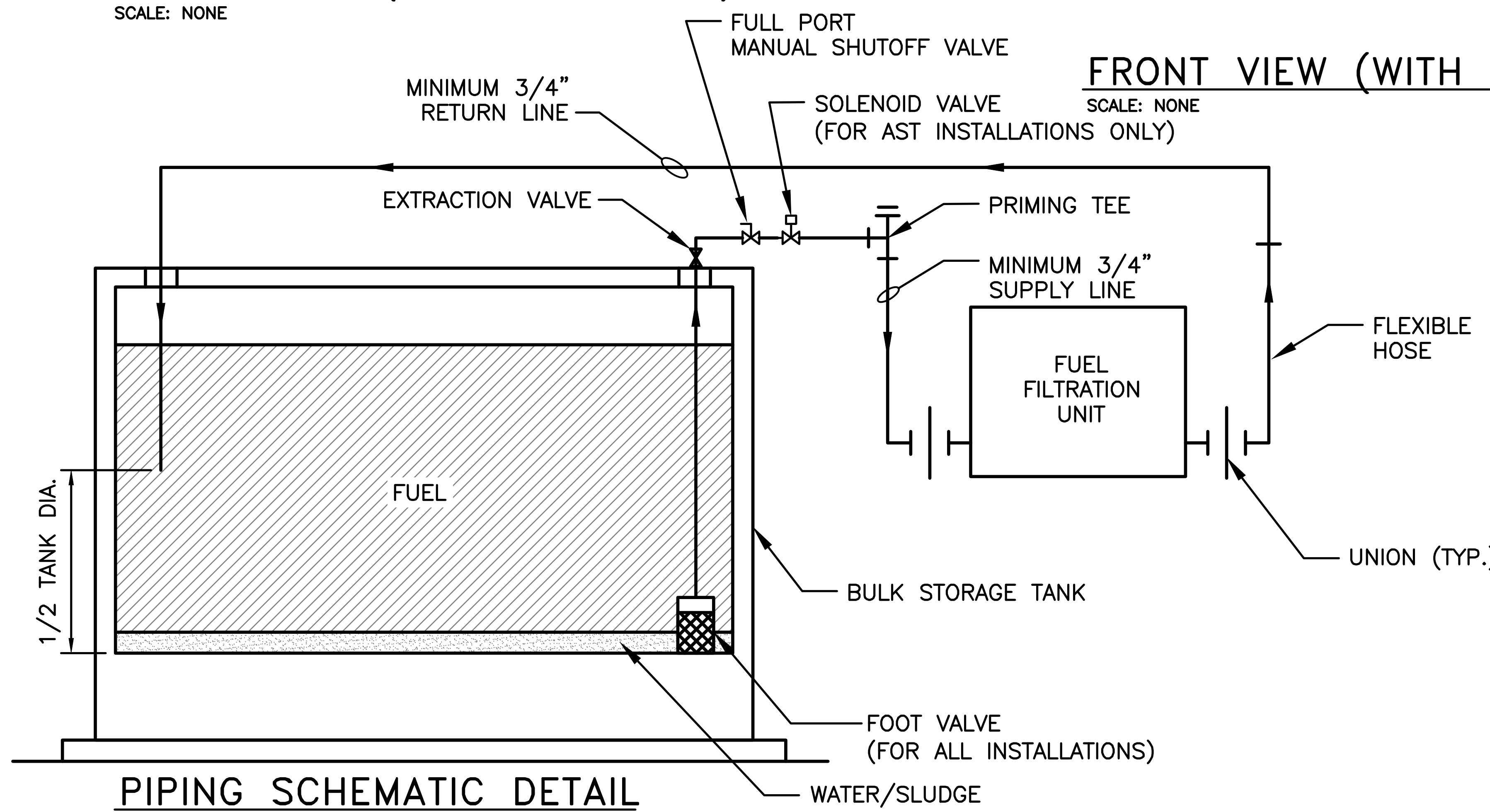
FRONT VIEW (WITHOUT COVER)
SCALE: NONE



FRONT VIEW (WITH COVER)
SCALE: NONE



SIDE VIEW
SCALE: NONE



PIPING SCHEMATIC DETAIL
SCALE: NONE

- NOTES:
1. PIPING TO BE SIZED PER INSTALLATION AND TO RUN AS STRAIGHT AS POSSIBLE WITH MINIMUM NUMBER OF FITTINGS.
 2. SUCTION LINES AND RETURN LINES ARE TO BE INSTALLED ON OPPOSITE ENDS OF PETROLEUM BULK STORAGE TANK, WITH THE SUCTION LINE AT THE LOWEST POINT OF THE TANK.
 3. FLEXIBLE HOSE LENGTH TO BE DETERMINED FOR EACH INSTALLATION
 4. FILTRATION SYSTEM IS TYPICALLY INSTALLED OUTDOOR AT THE TANK LOCATION. PROVIDE FILTRATION SYSTEM WITH WEATHERTIGHT ENCLOSURE AND HEATER OPTION FOR OUTDOOR INSTALLATIONS.
 5. FILTRATION SYSTEM SUPPORT SHALL BE PROVIDED FOR ALL INSTALLATIONS.

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CERTIFICATE OF AUTHORIZATION #: 0017905

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STATE OF NEW YORK
MARTIN I. WESOLOWSKI
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2026

CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

SHEET TITLE:

FUEL FILTRATION
SYSTEM DETAIL

DRAWING NUMBER:

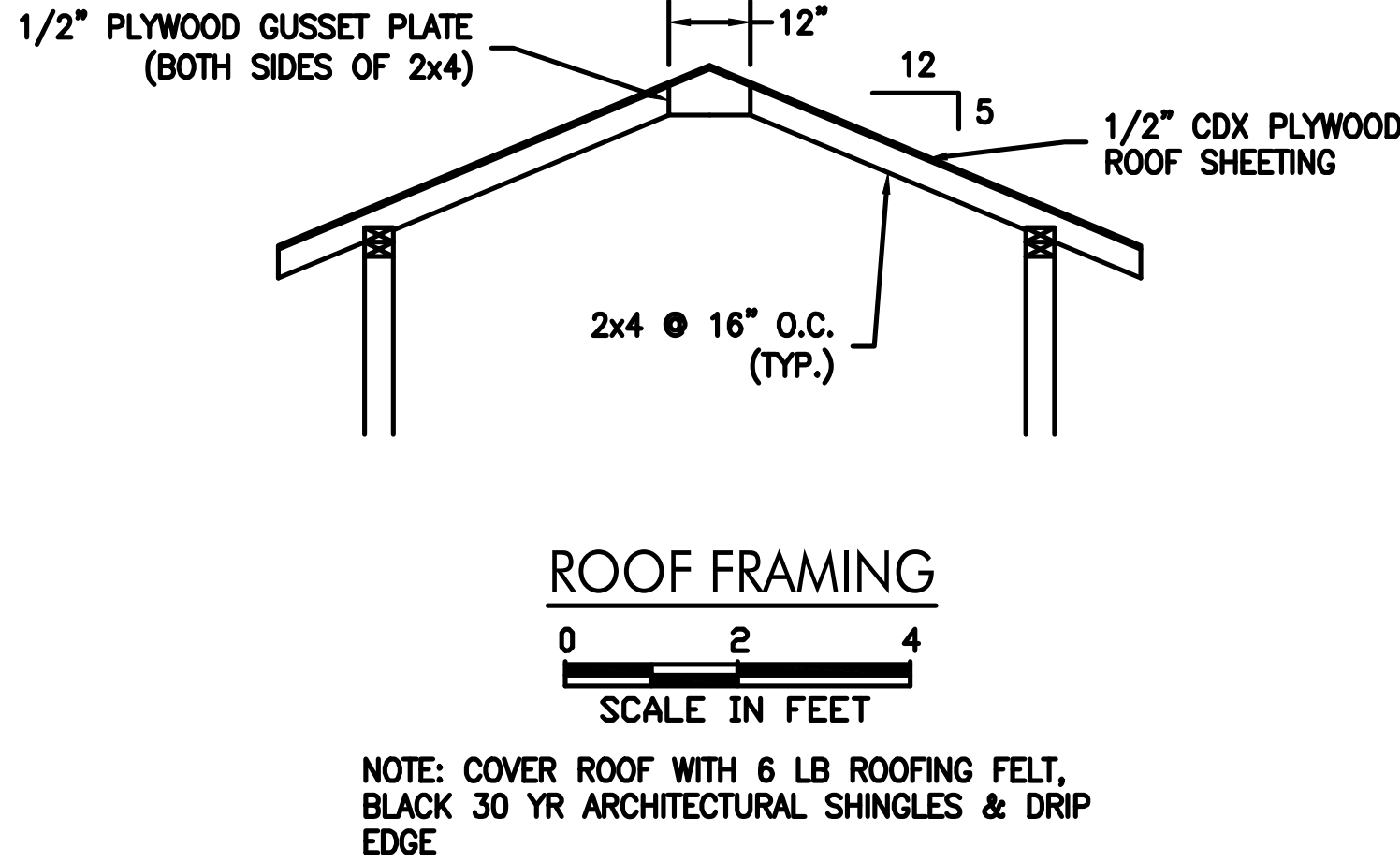
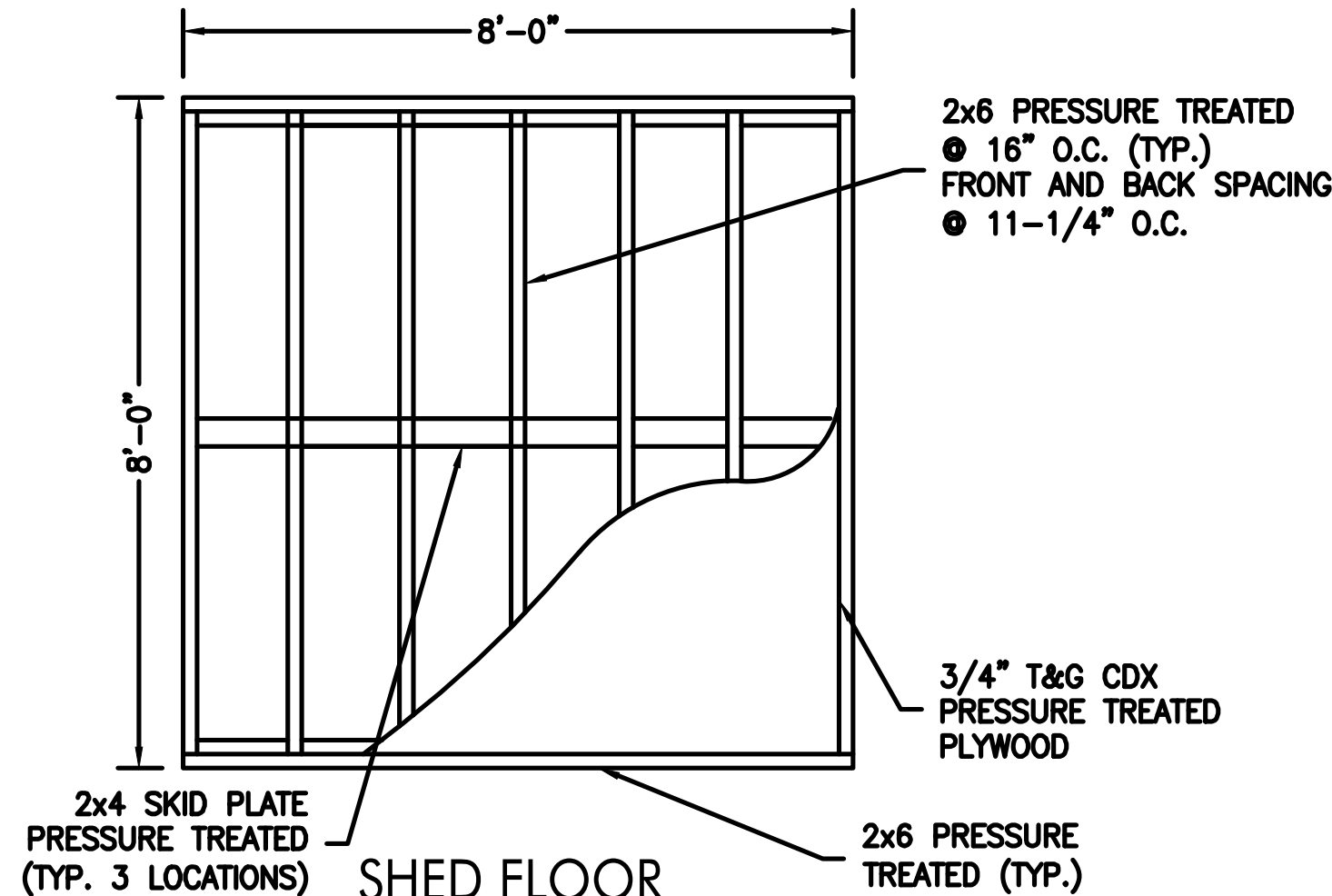
C-38

SHEET

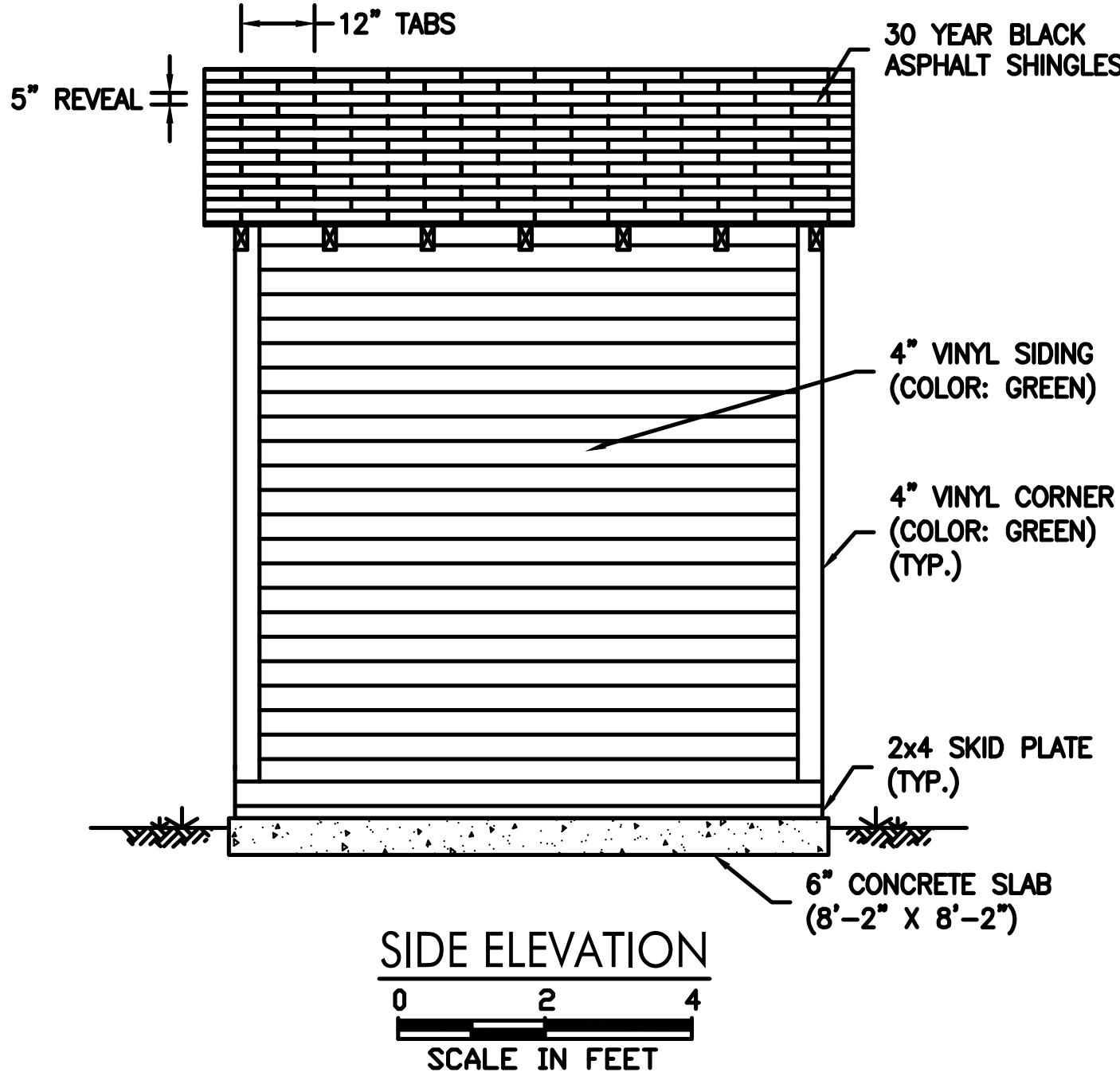
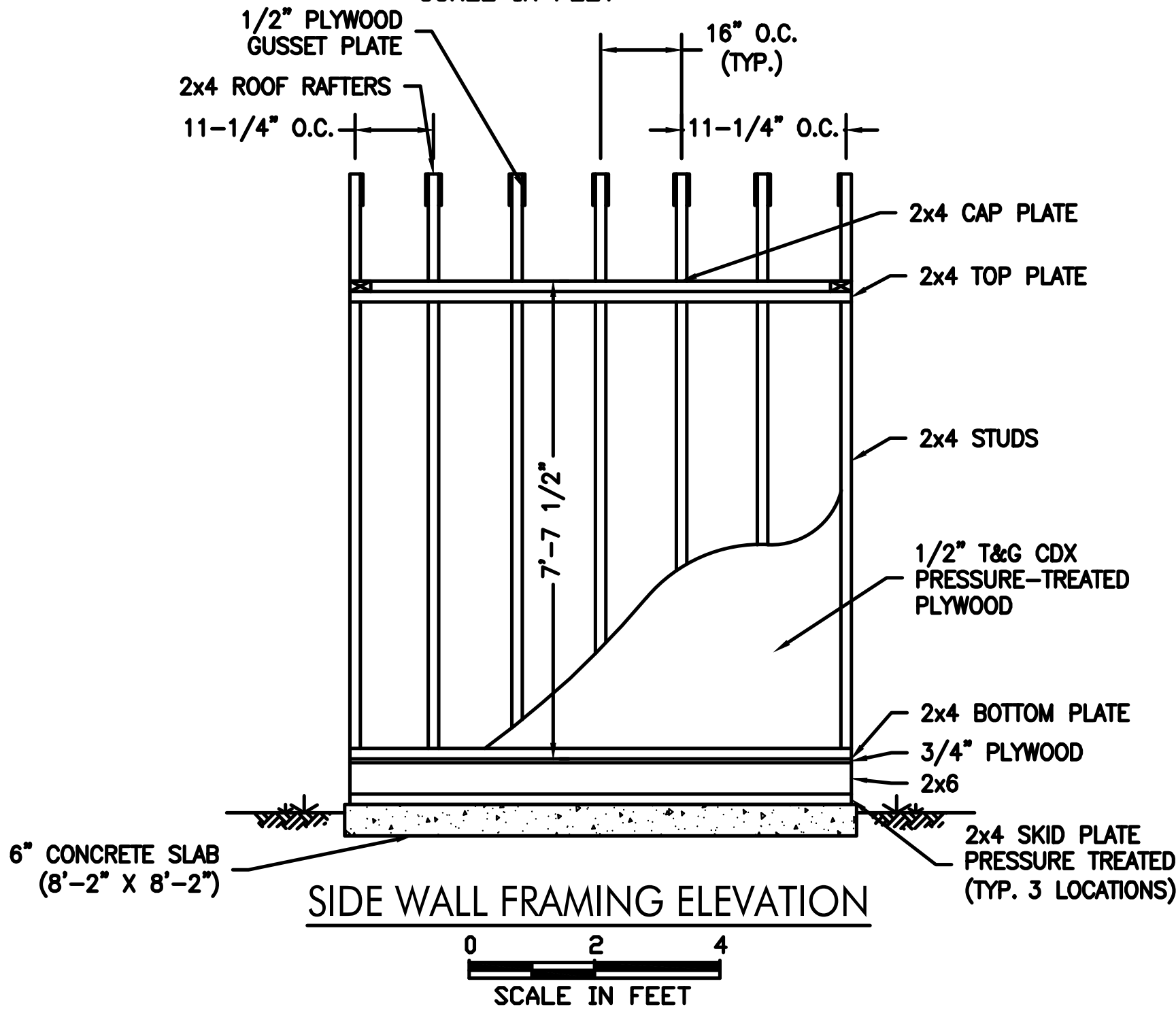
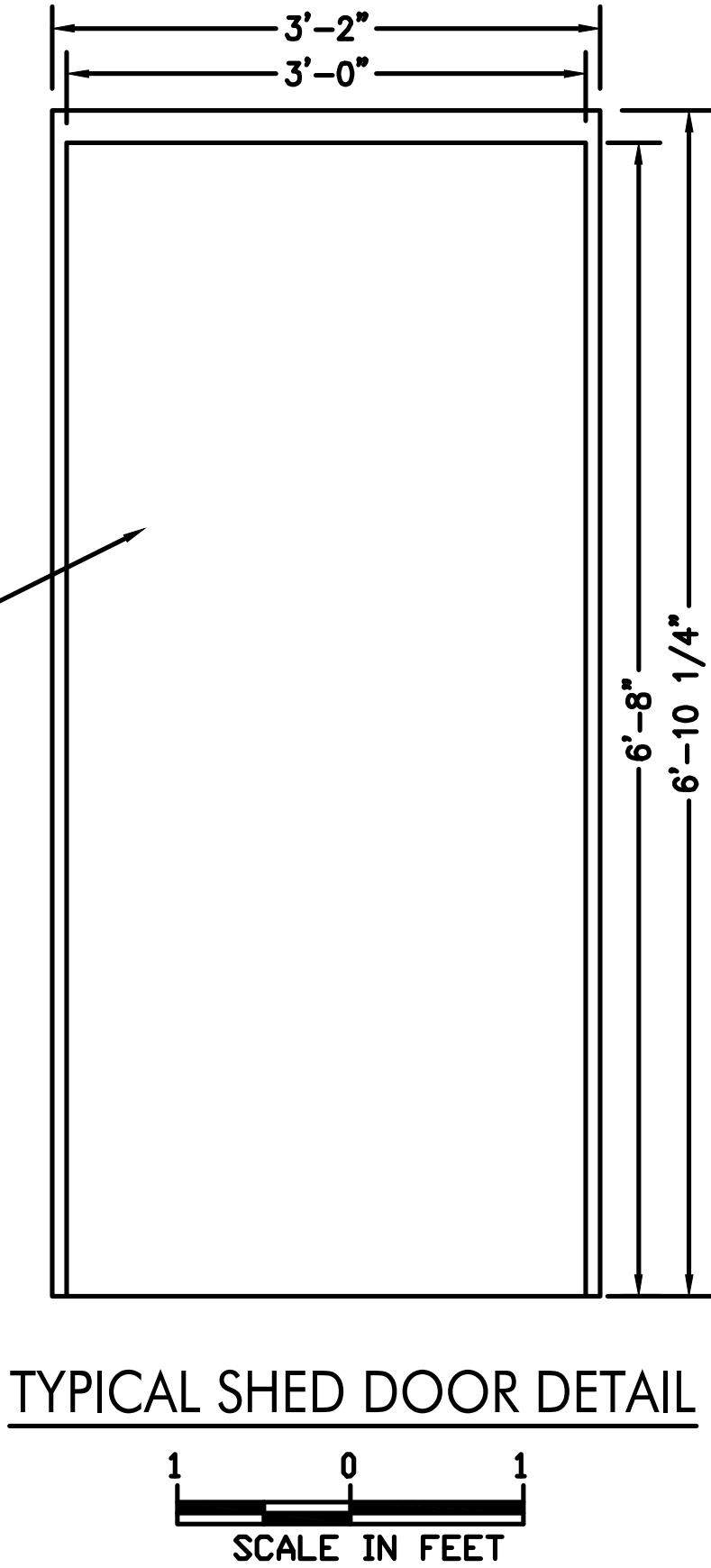
40

OF

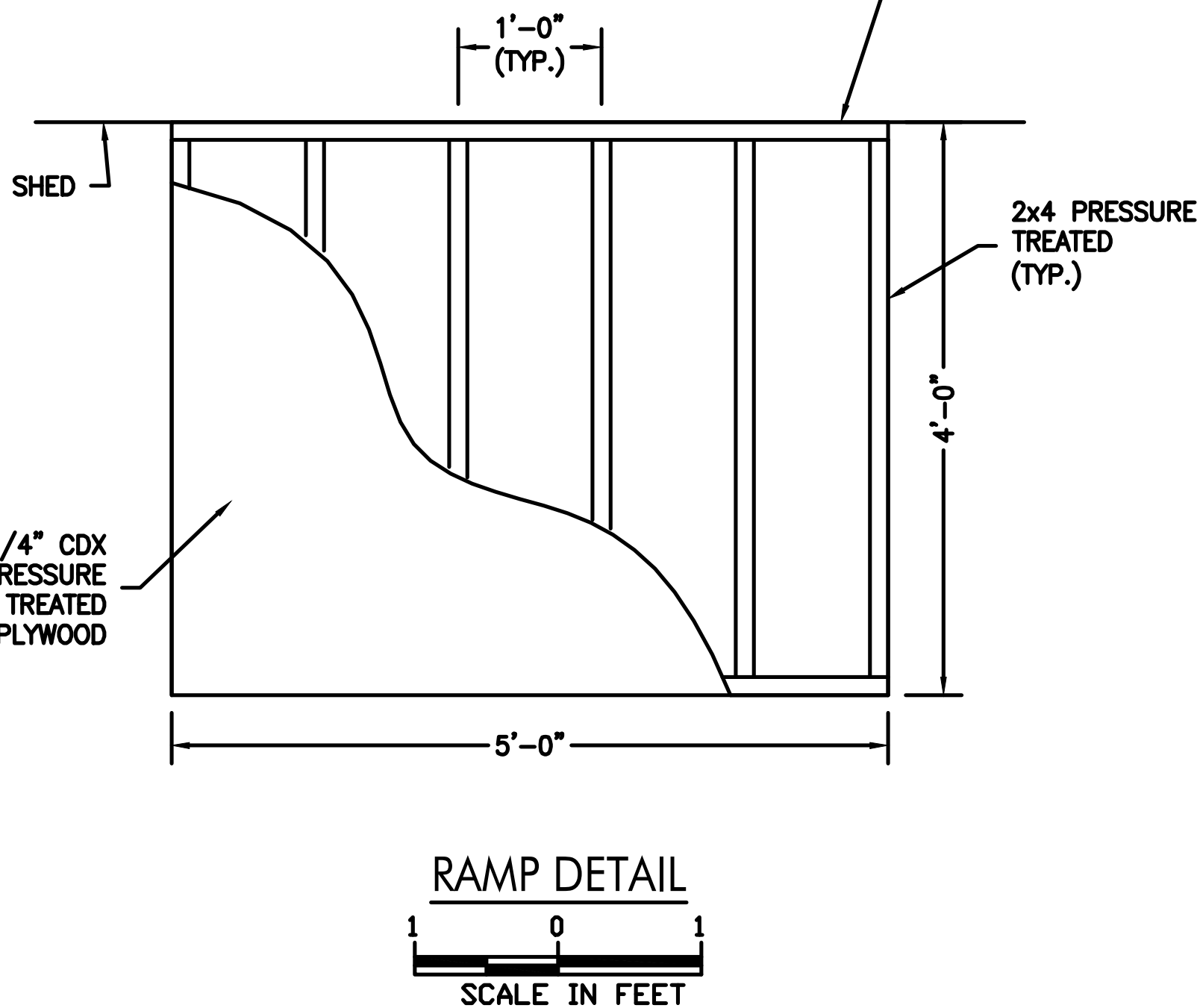
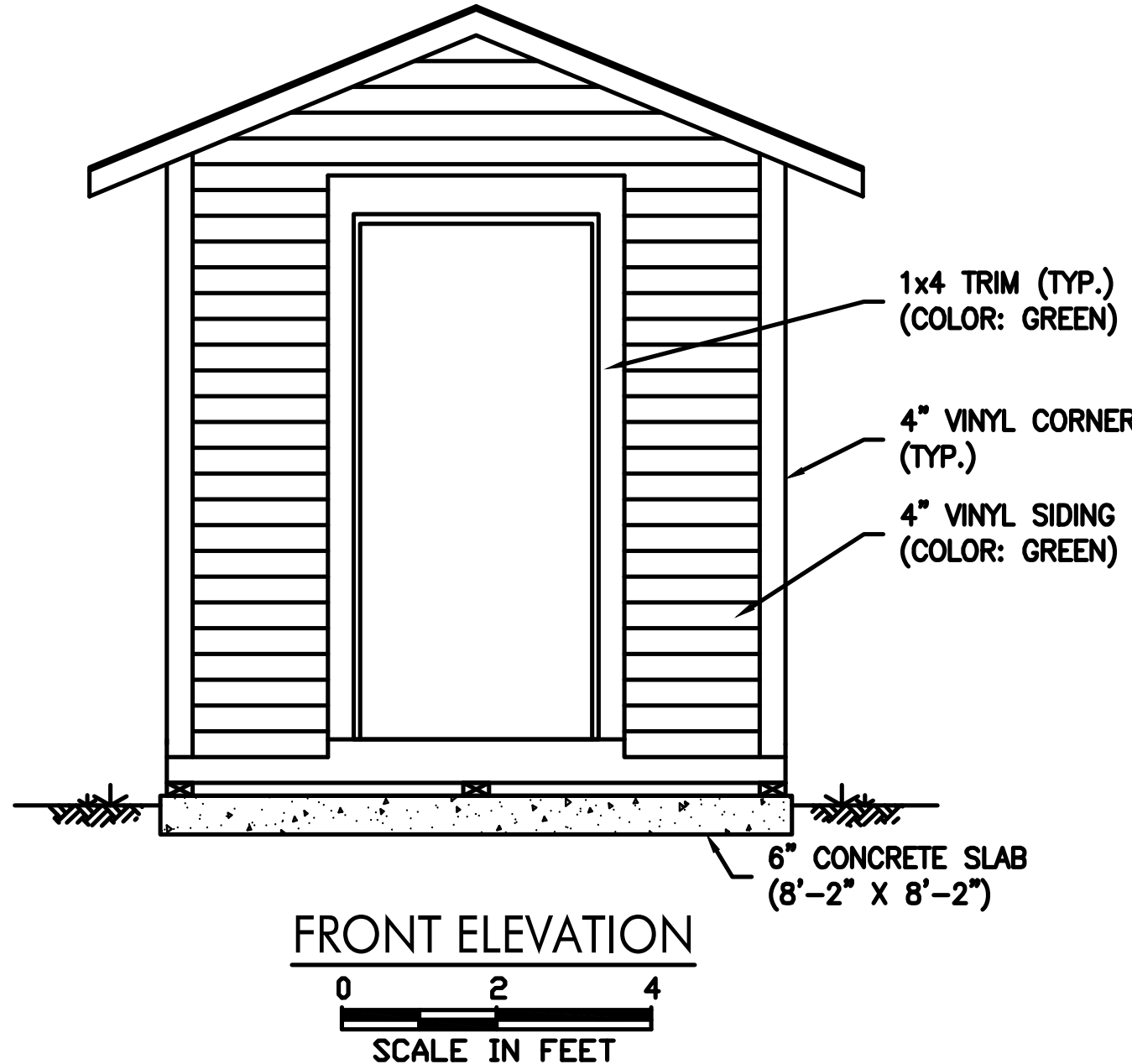
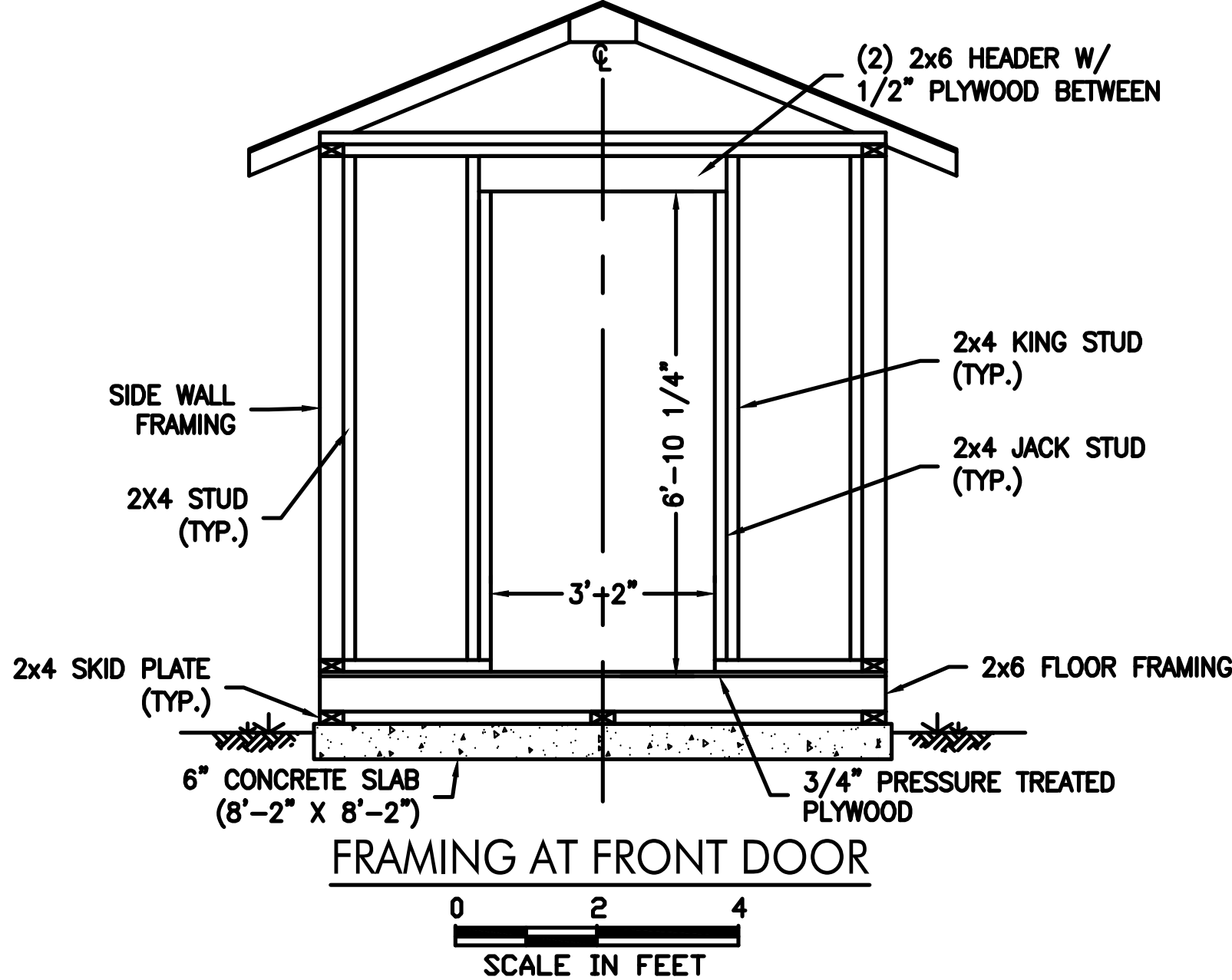
51



PROVIDE PRE-HUNG STEEL MANDOOR WITH ALL REQUIRED HARDWARE



ATTACH TO SHED WITH (4) 2-1/2" LAG SCREWS



Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

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CONTRACT:

CONSTRUCTION

TITLE: FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION: CENTRAL REGION VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

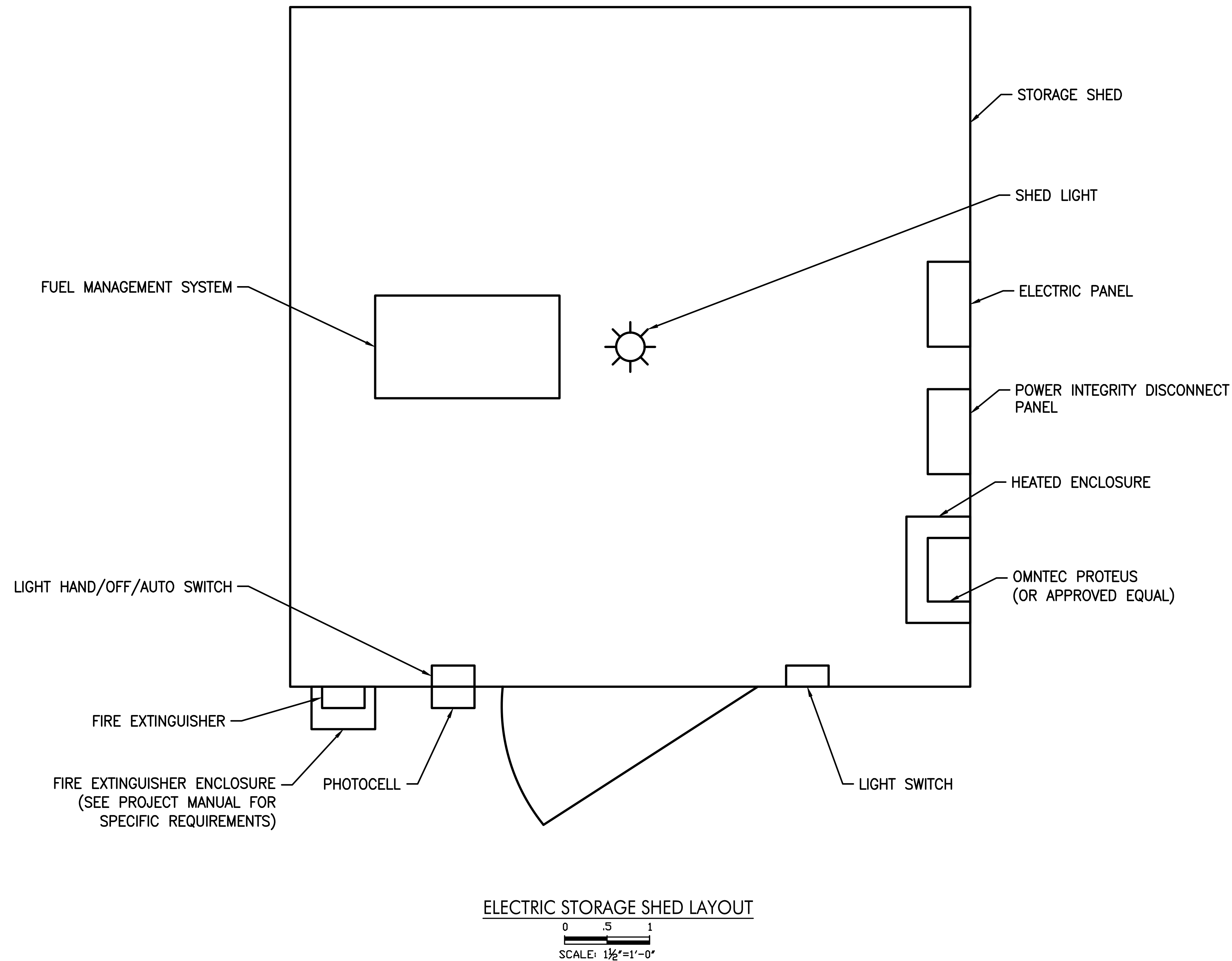
FIELD CHECK: M. WESOLOWSKI

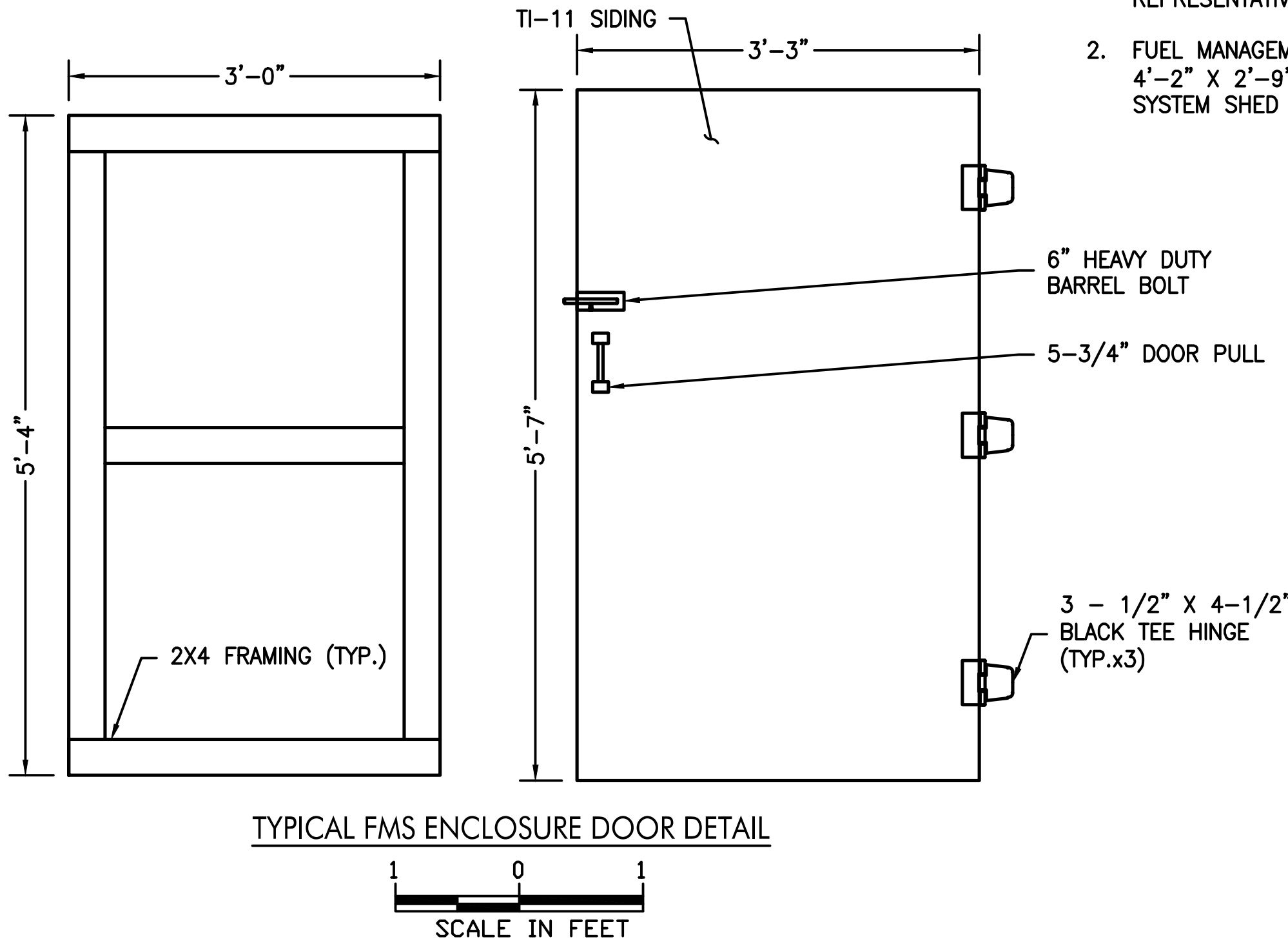
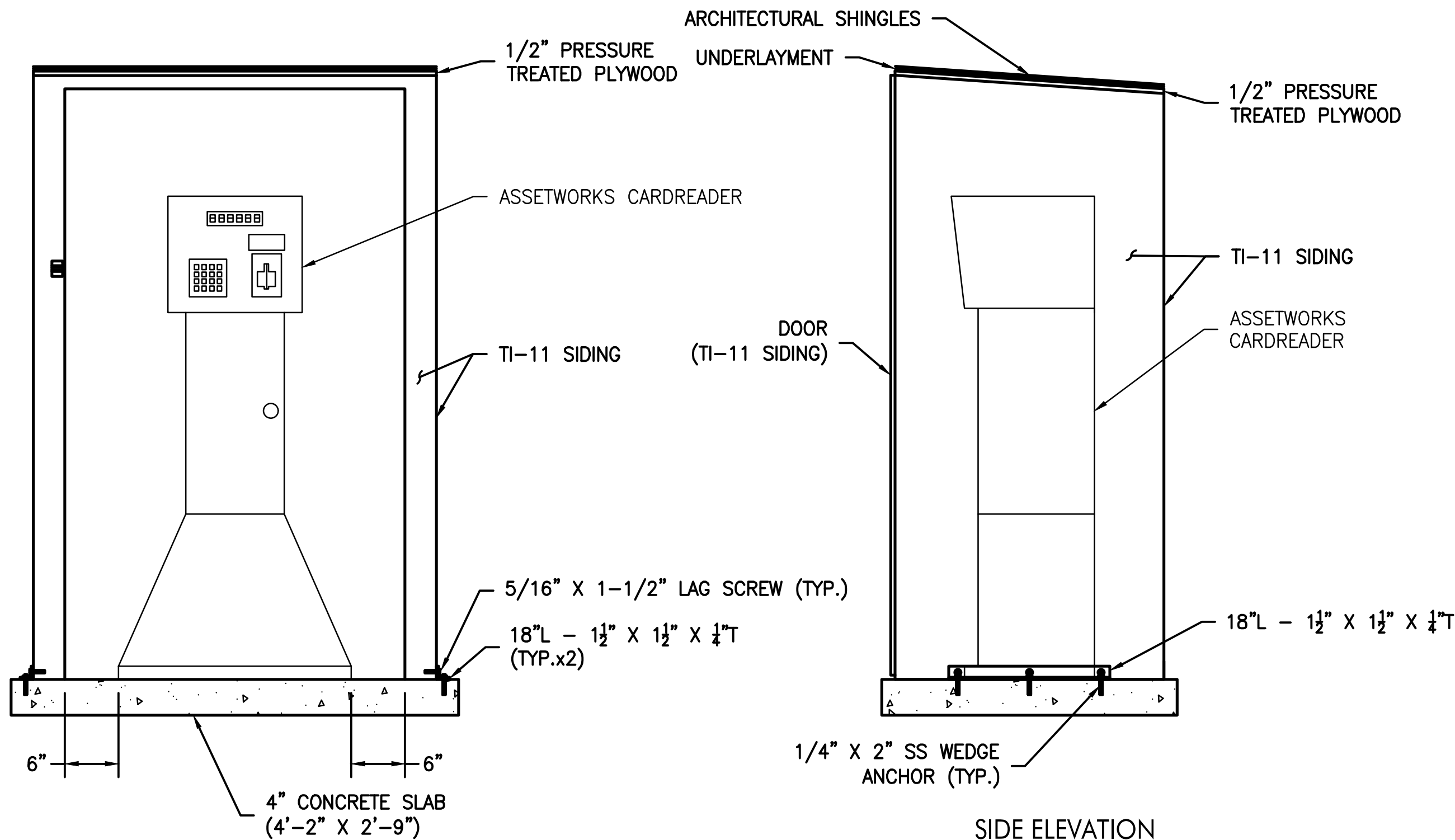
APPROVED: M. WESOLOWSKI

SHEET TITLE: STORAGE SHED DETAILS AND ELEVATIONS

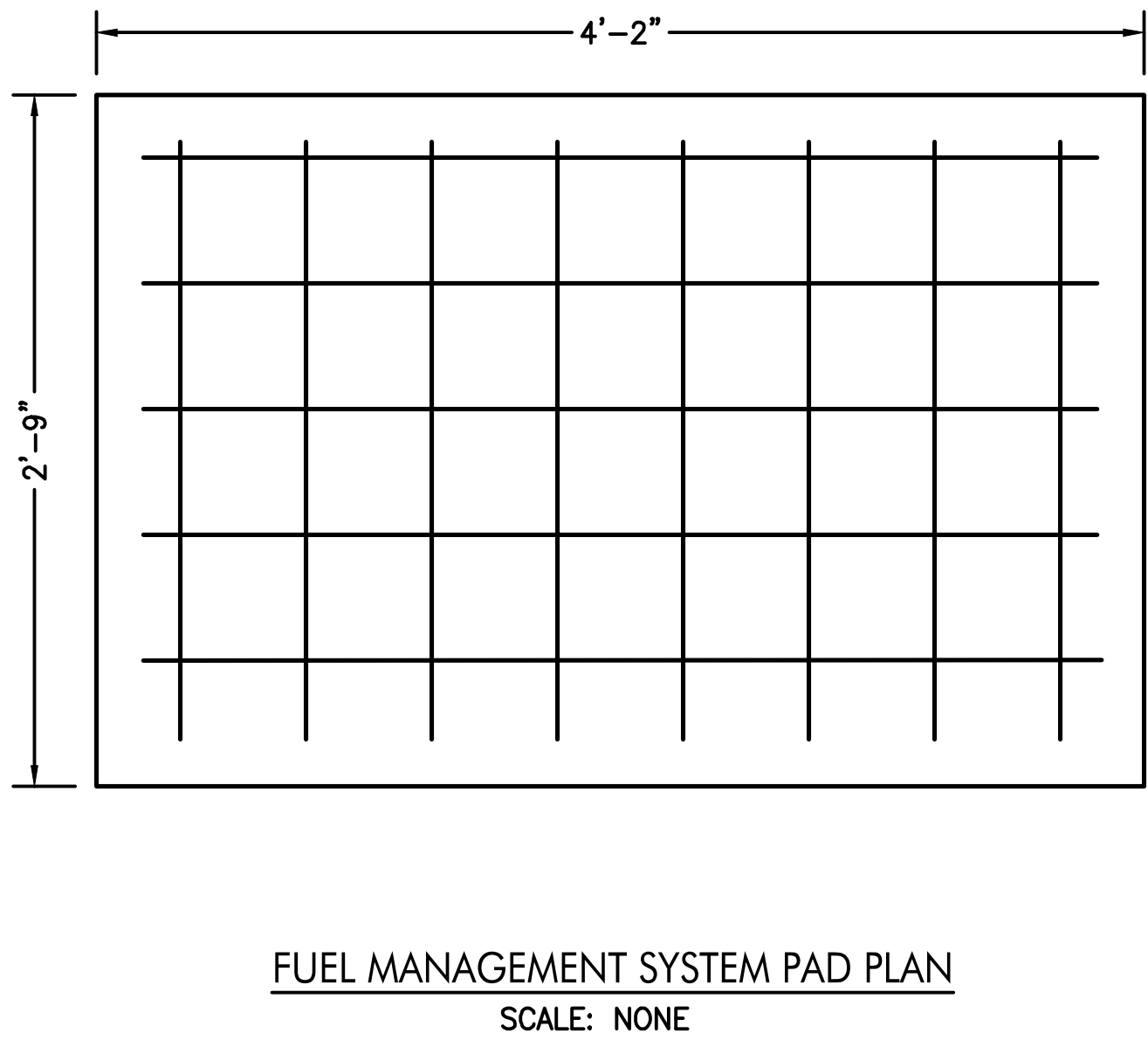
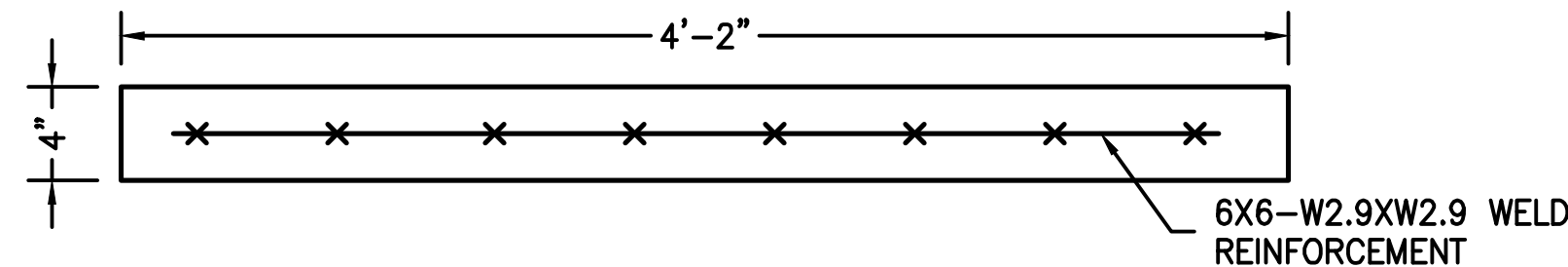
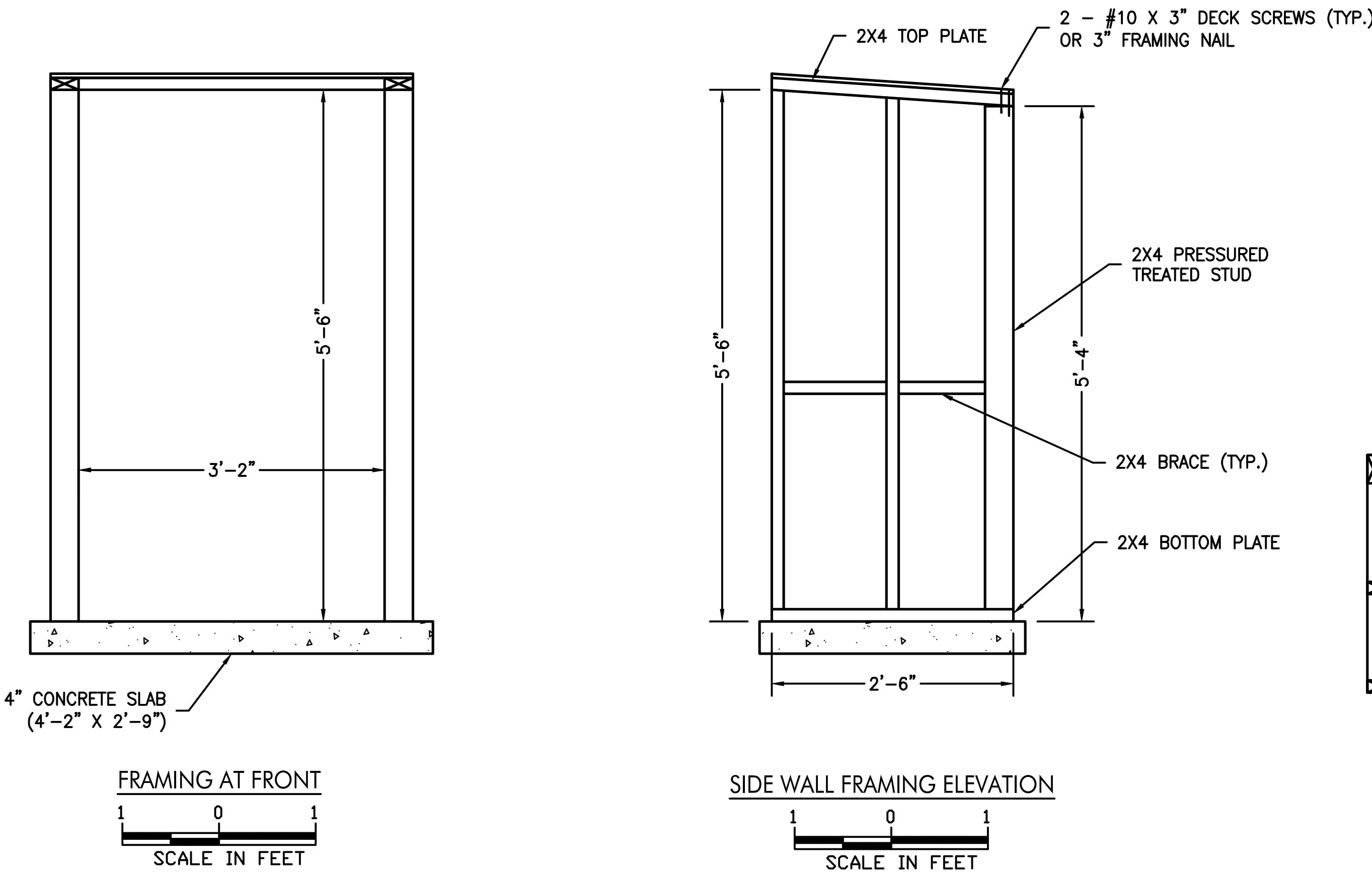
DRAWING NUMBER: C-39

SHEET 41 OF 51





- NOTES:
- ENCLOSURE SHALL BE PAINTED GREEN UNLESS OTHERWISE DIRECTED BY THE OGS DIRECTOR'S REPRESENTATIVE.
 - FUEL MANAGEMENT SYSTEM PAD SHALL BE 4'-2" X 2'-9" WHEN A FUEL MANAGEMENT SYSTEM SHED IS REQUIRED.



Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985

LiRo Engineers, Inc.

3 Aerial Way, Syosset, New York

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CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

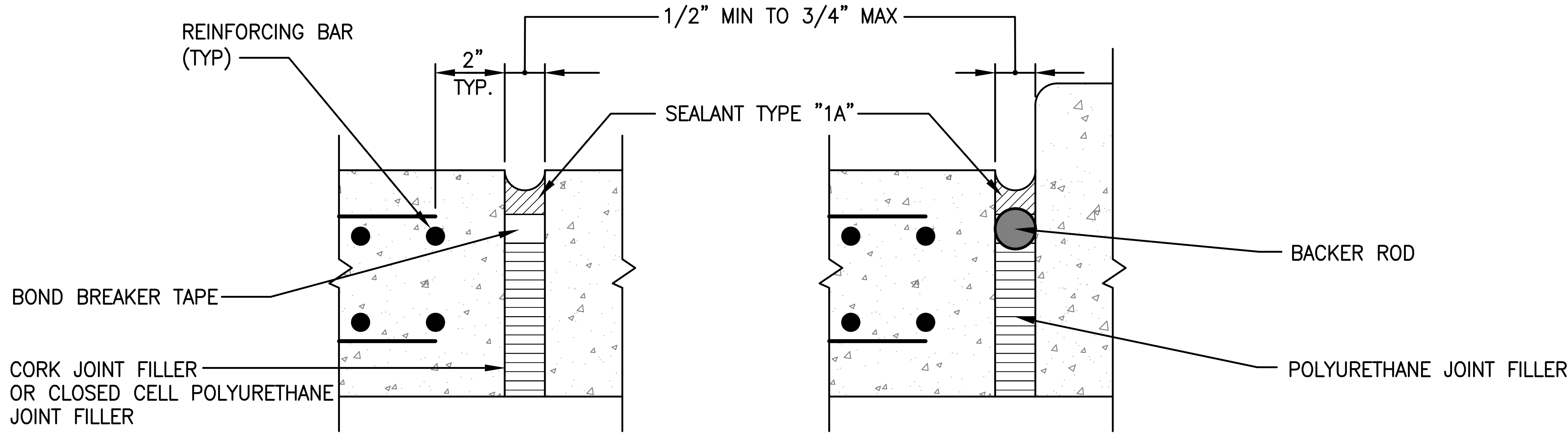
SHEET TITLE:

FUEL MANAGEMENT SYSTEM ENCLOSURE DETAILS AND ELEVATIONS

DRAWING NUMBER:

C-41

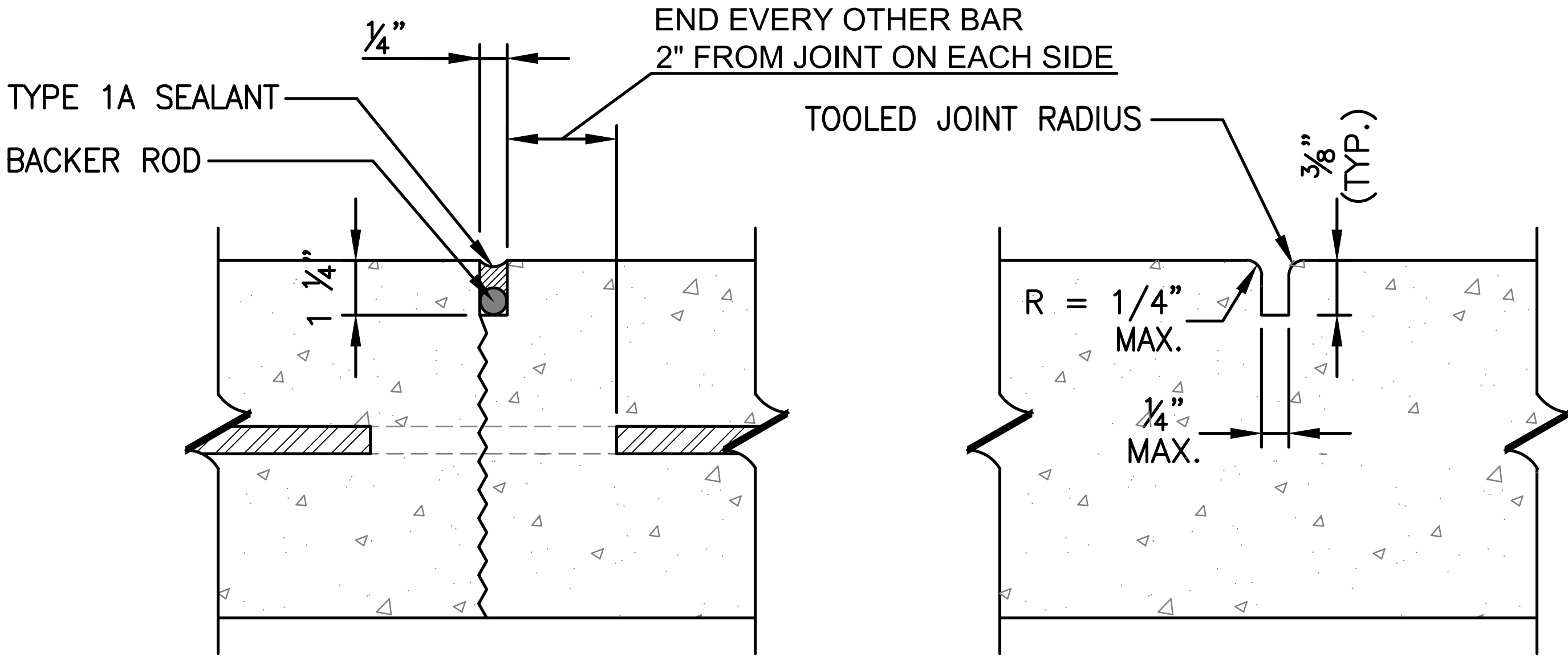
SHEET 43 OF 51



TYPICAL FORMED EXPANSION JOINT
SCALE: NONE

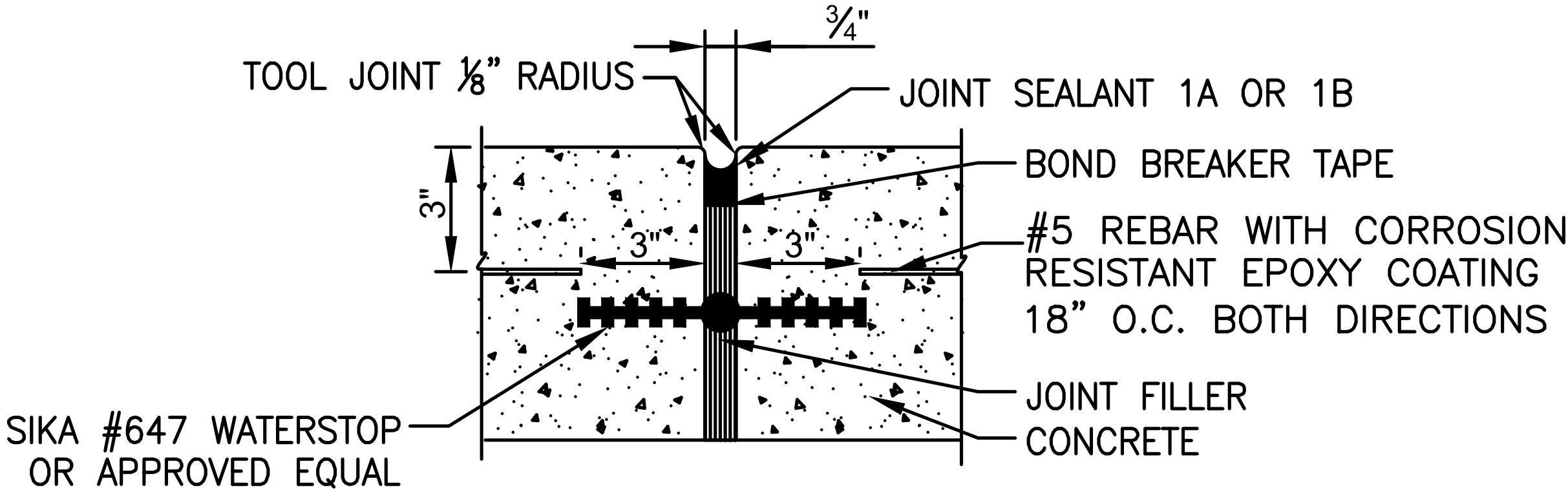
TYPICAL EXPANSION JOINT FOR IRREGULAR SURFACES
SCALE: NONE

USE THIS JOINT BETWEEN ALL TANK PADS AND VEHICLE PADS




TYPICAL CONTROL JOINT
SCALE: NONE

TYPICAL TOOLED CONTROL JOINT DETAIL
SCALE: NONE



EXPANSION JOINT WITH WATERSTOP
SCALE: NONE




Office of
General Services

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CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985




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STATE OF NEW YORK
MARTIN J. WESOLOWSKI
NO. 07454
LICENSED PROFESSIONAL ENGINEER
REGISTERED 12/31/2025

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

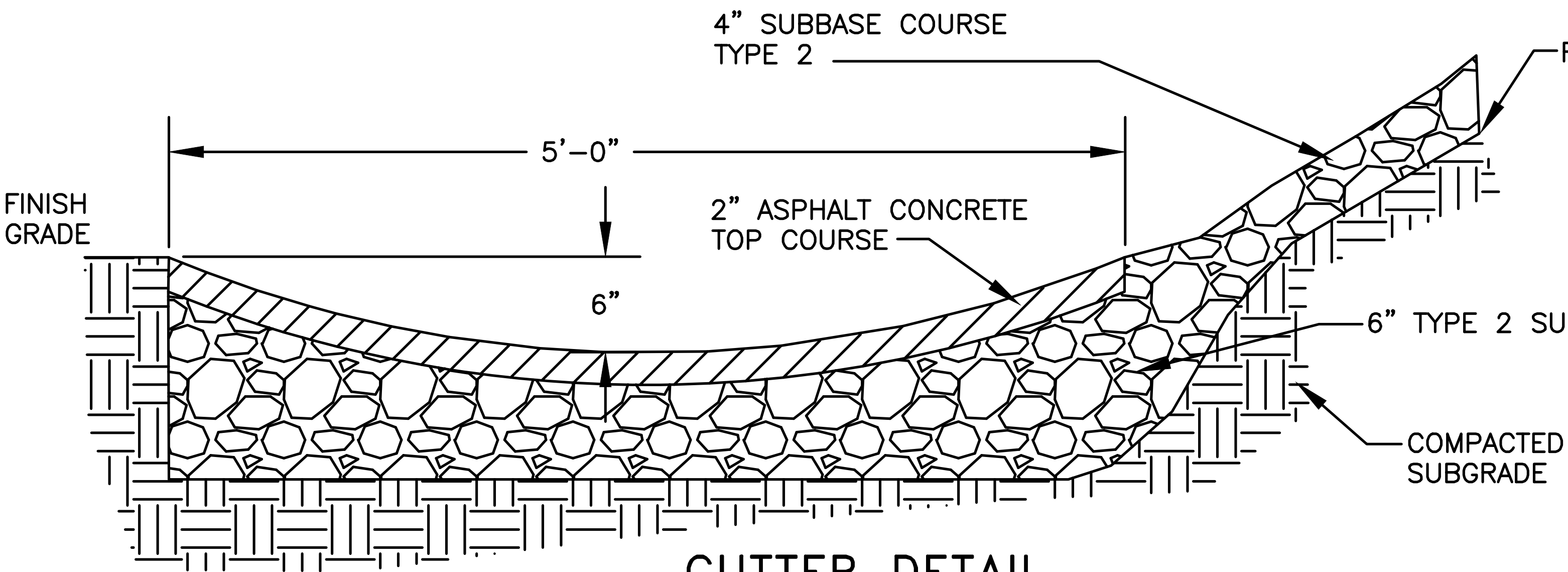
LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION
PROJECT NUMBER:	47675	- C
DESIGNED BY:	M. GUTMANN	
DRAWN BY:	A. KELLY	
FIELD CHECK:	M. WESOLOWSKI	
APPROVED:	M. WESOLOWSKI	

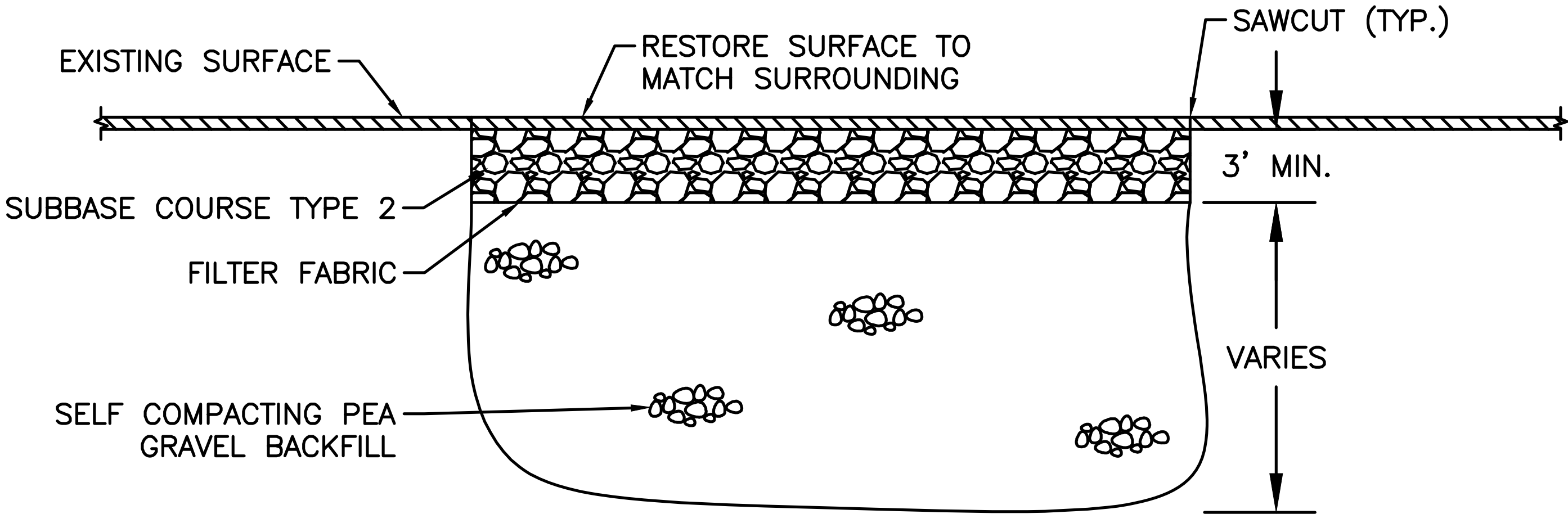
SHEET TITLE:
CONCRETE JOINT
DETAILS

DRAWING NUMBER:
C-42

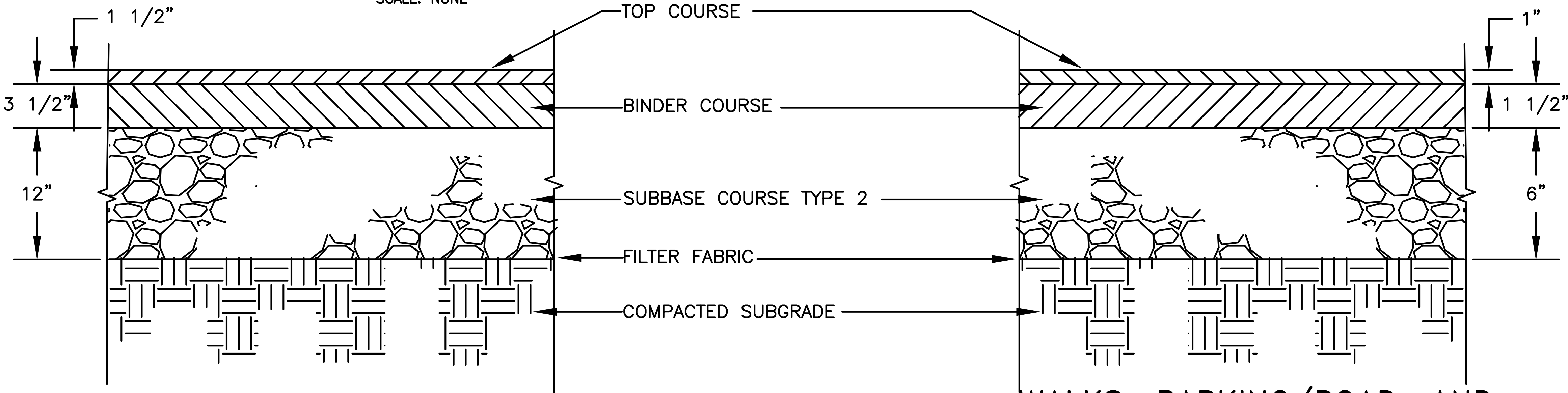
SHEET 44 OF 51



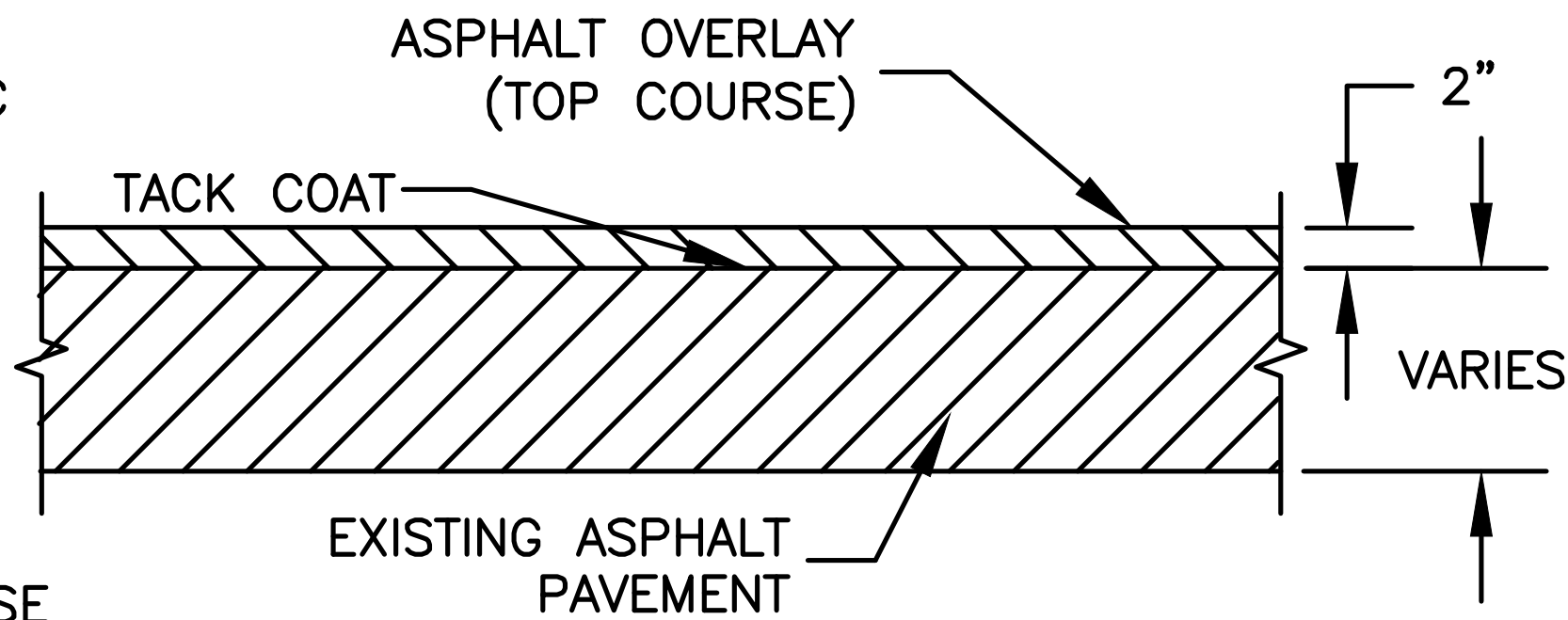
GUTTER DETAIL
SCALE: NONE



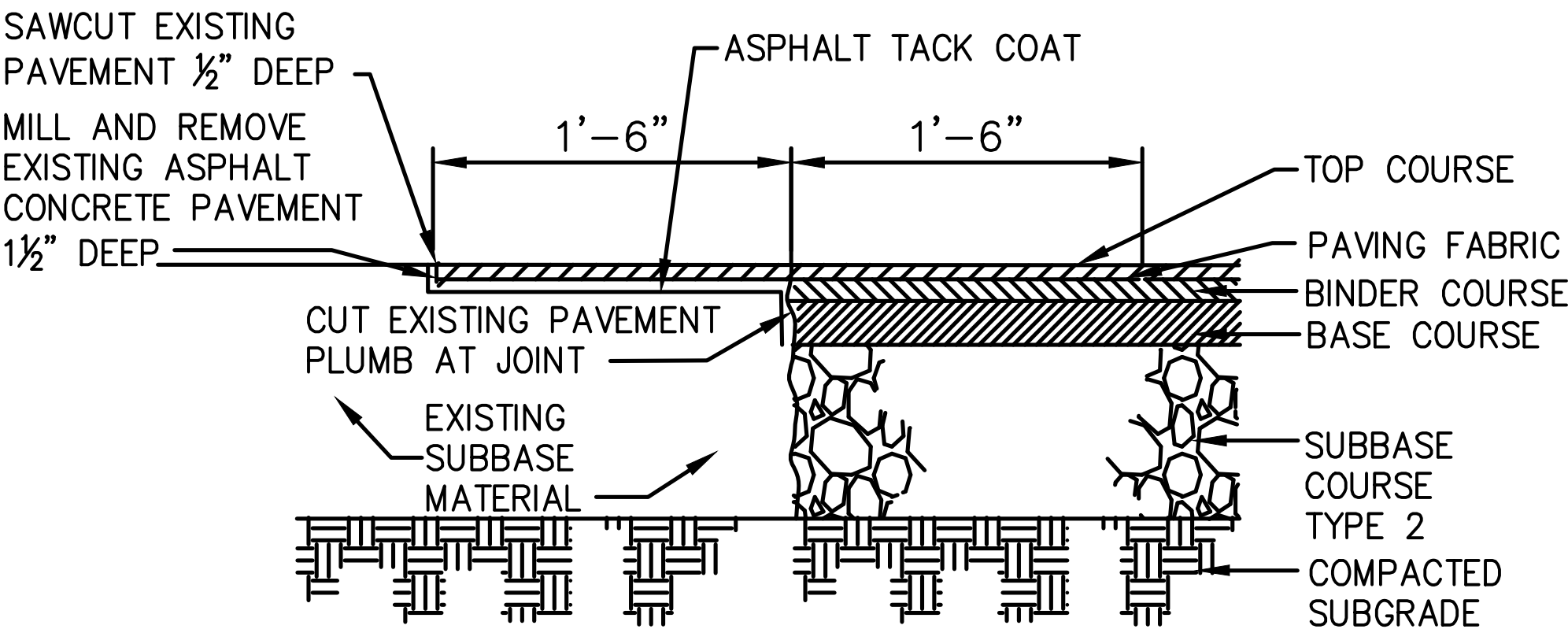
FORMER TANK EXCAVATION BACKFILL DETAIL
SCALE: NONE



PARKING/ROAD AREA (HEAVY DUTY)
SCALE: NONE




ASPHALT PAVEMENT OVERLAY DETAIL
SCALE: NONE



ASPHALT TRANSITION DETAIL
SCALE: NONE

WALKS, PARKING/ROAD, AND
PLAY AREAS (LIGHT DUTY)
SCALE: NONE




Office of
General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017985



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STATE OF NEW YORK
MARTIN I. WEISOWSKI
REGISTERED PROFESSIONAL ENGINEER
NO. 02154
EXPIRATION DATE: 12/31/2026

CONTRACT

CONSTRUCTION

TITLE:
FUEL TANK MODIFICATION AND
ENVIRONMENTAL REMEDIATION

LOCATION:
CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER: 47675 - C

DESIGNED BY: M. GUTMANN

DRAWN BY: A. KELLY

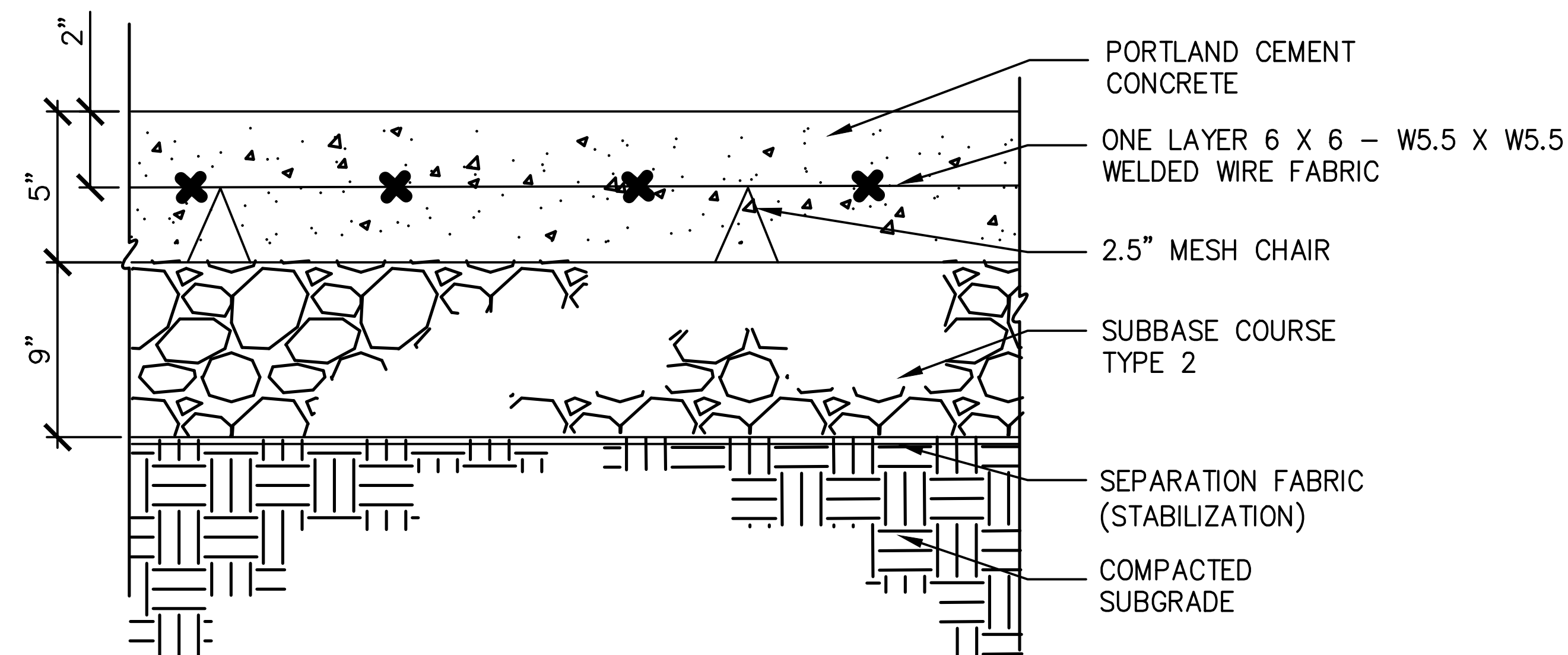
FIELD CHECK: M. WESOLOWSKI

APPROVED: M. WESOLOWSKI

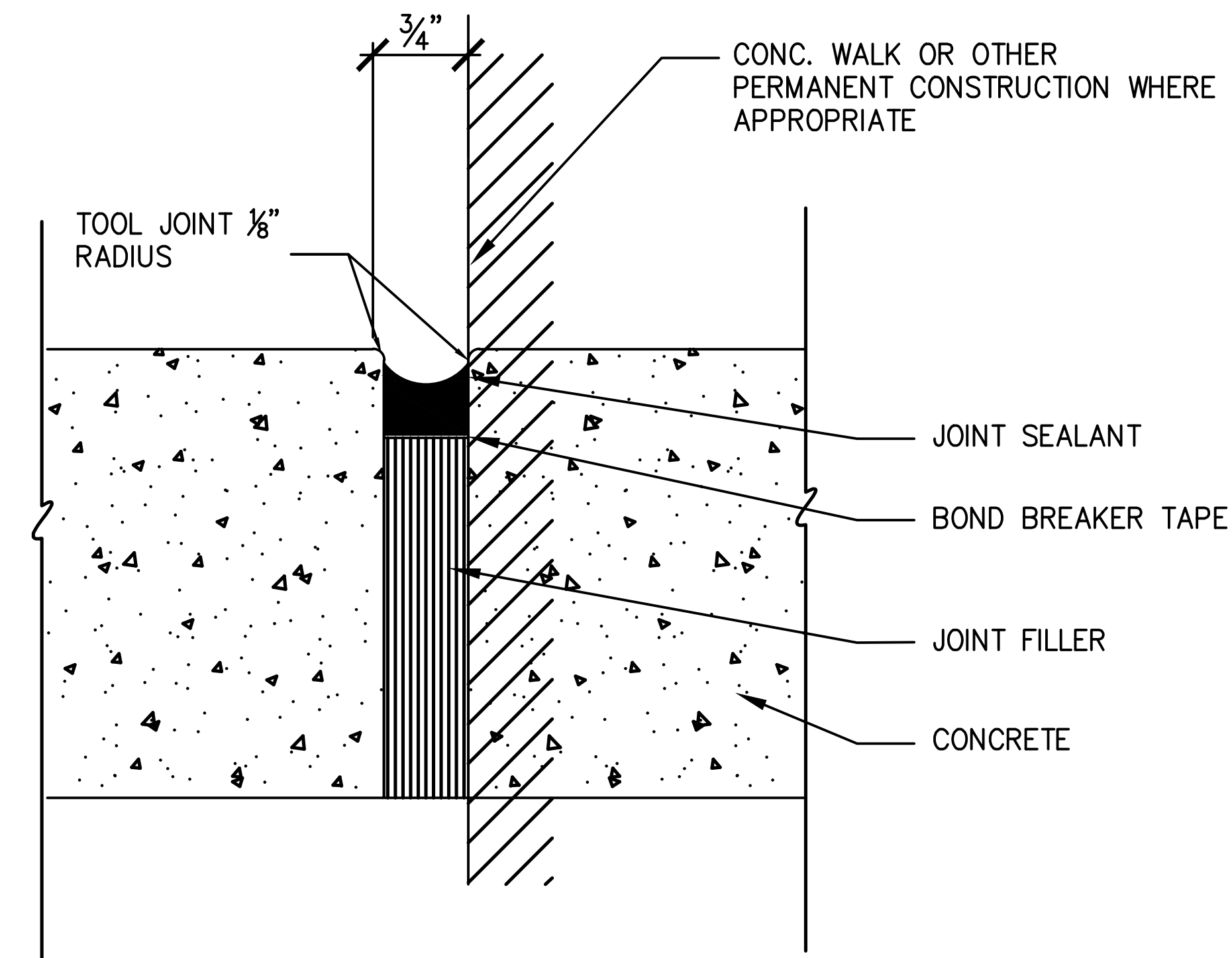
SHEET TITLE:
ASPHALT CONCRETE
PAVEMENT &
EXCAVATION BACKFILL
DETAILS

DRAWING NUMBER:
C-43

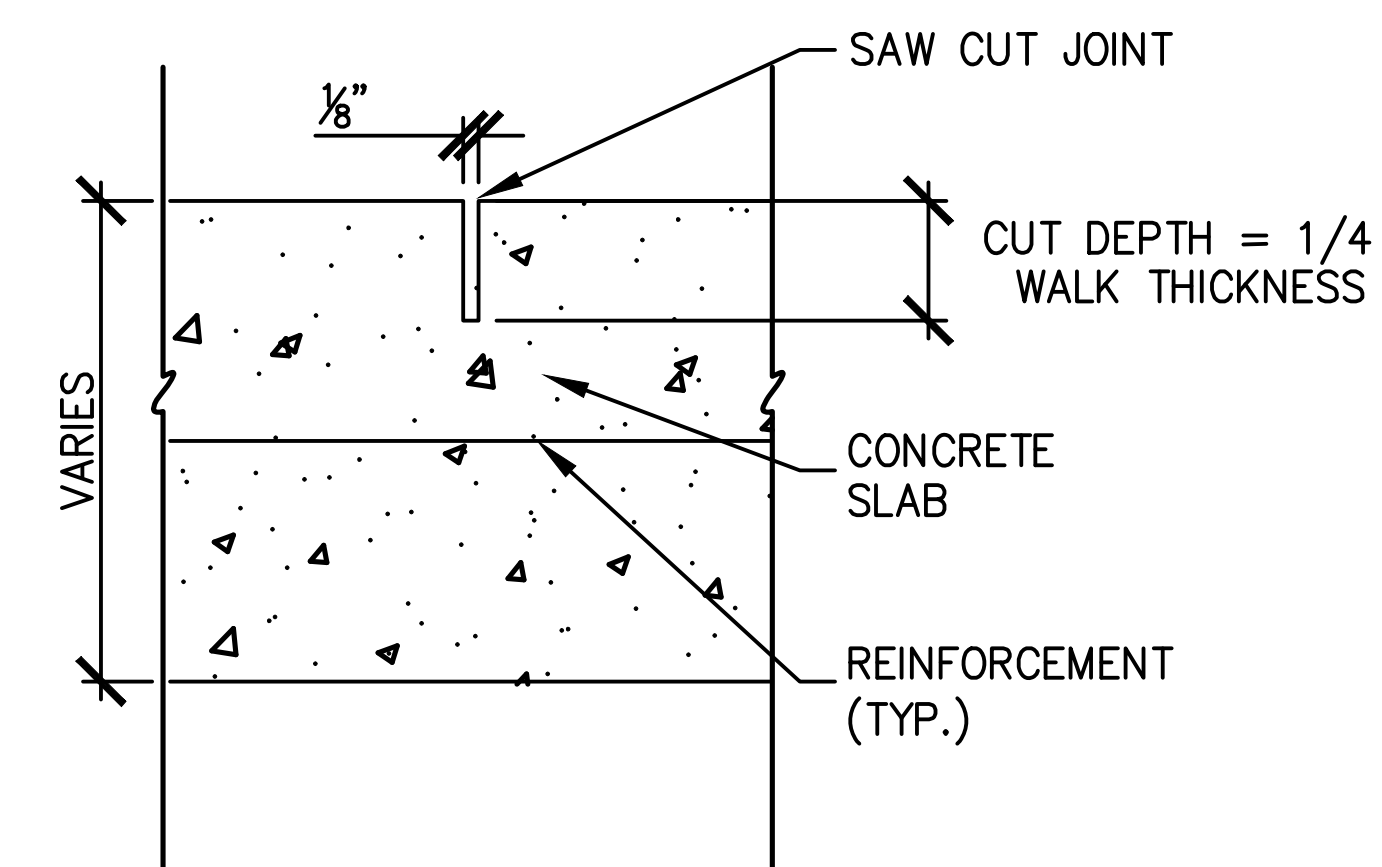
SHEET 45 OF 51



CONCRETE WALK – WWF REINFORCED



EXPANSION JOINT

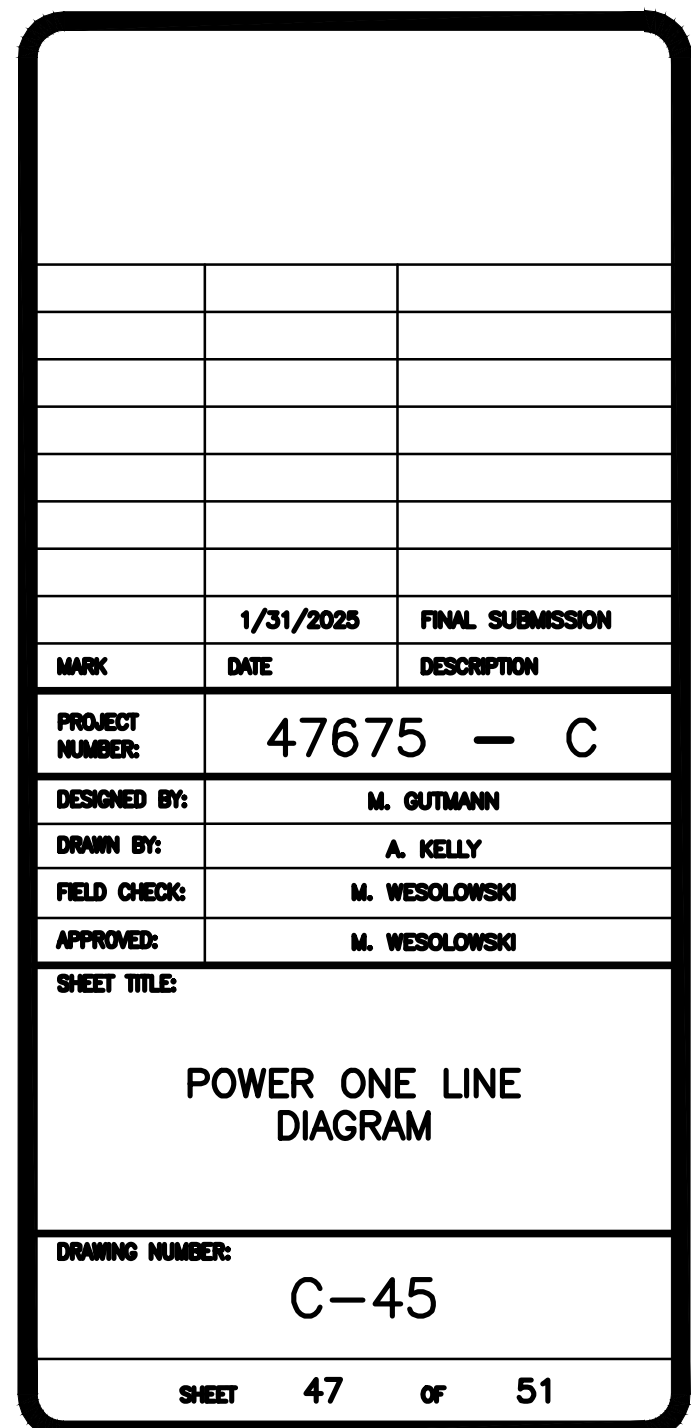


SAWED CONTROL JOINT

NOTES:

1. PROVIDE EXPANSION JOINT WHERE THE ASPHALT SIDEWALK ABUTS THE CONCRETE SLAB FOR THE FUEL TANK AND AT THE CHANGE IN DIRECTION AND EVERY 50'.
2. VERTICAL EXPANSION JOINTS:
 - W.R. MEADOWS, INC. ASPHALT FIBRE EXPANSION JOINT, OR APPROVED EQUAL.
 - W.R. MEADOWS SNAP-CAP EXPANSION JOINT CAP (KEEPS THE FIBRE BOARD CLEAN DURING CONCRETE PLACEMENT), OR APPROVED EQUAL.
 - 3M BOND BREAKER TAPE OR APPROVED EQUAL.
 - A SINGLE COMPONENT, SELF-LEVELING, NON-SAG POLYURETHANE SEALANT - SIKAFLEX-1C SL OR APPROVED EQUAL.
3. EDGES AND EXPANSION JOINTS SHOULD TROWELED WITH A RADIUS EDGE.
4. SAW CONTROL JOINTS (CJ) AFTER THE CONCRETE HAS SET. COMPLETE SAWCUTS WITHIN 18 HOURS AFTER SLAB IS PLACED. SPACE CONTROL JOINTS EQUALLY BETWEEN EXPANSION JOINTS AT APPROXIMATELY 5'-0" ON CENTER OR MATCH EXISTING WALKS IN AREA, EXCEPT WHERE A DIFFERENT SPACING IS SHOWN ON THE DRAWINGS.
5. APPLY CURING IMMEDIATELY AFTER FINAL FINISH. KURE-N-SEAL OR APPROVED EQUAL.
6. CONCRETE SIDEWALK SHALL HAVE A BROOM FINISH.

[illegible]



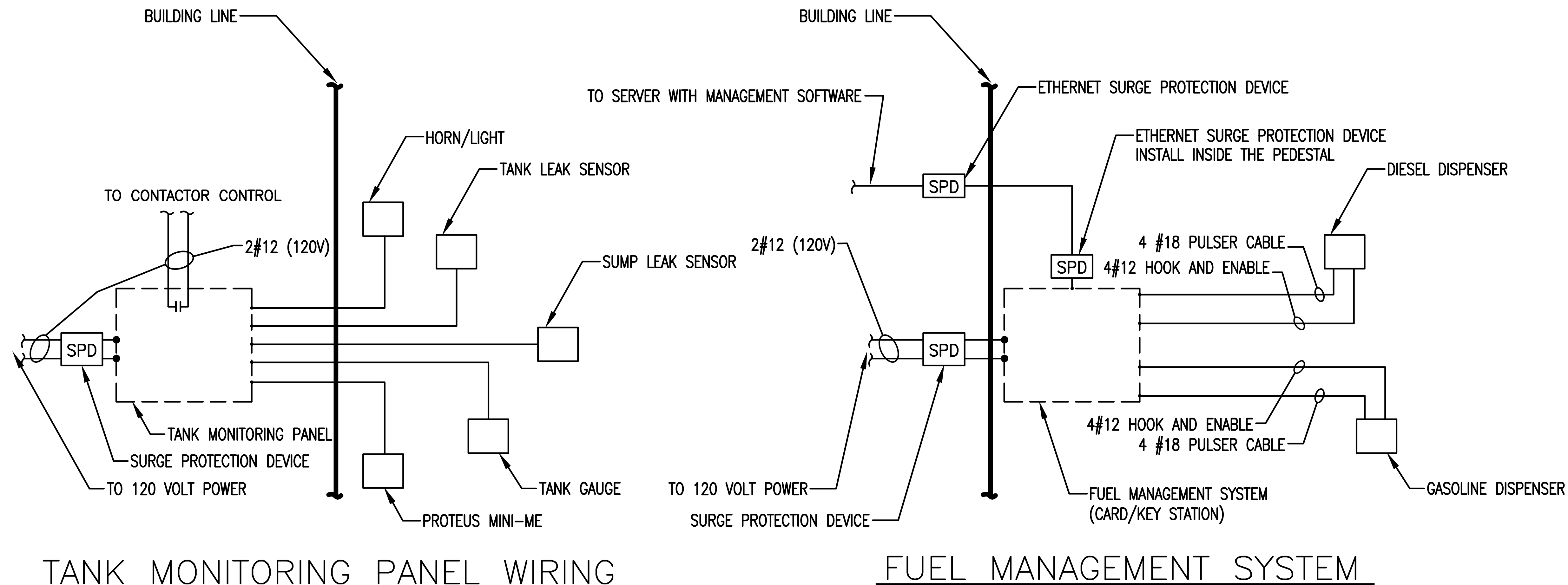
(THIS DRAWING ONLY)

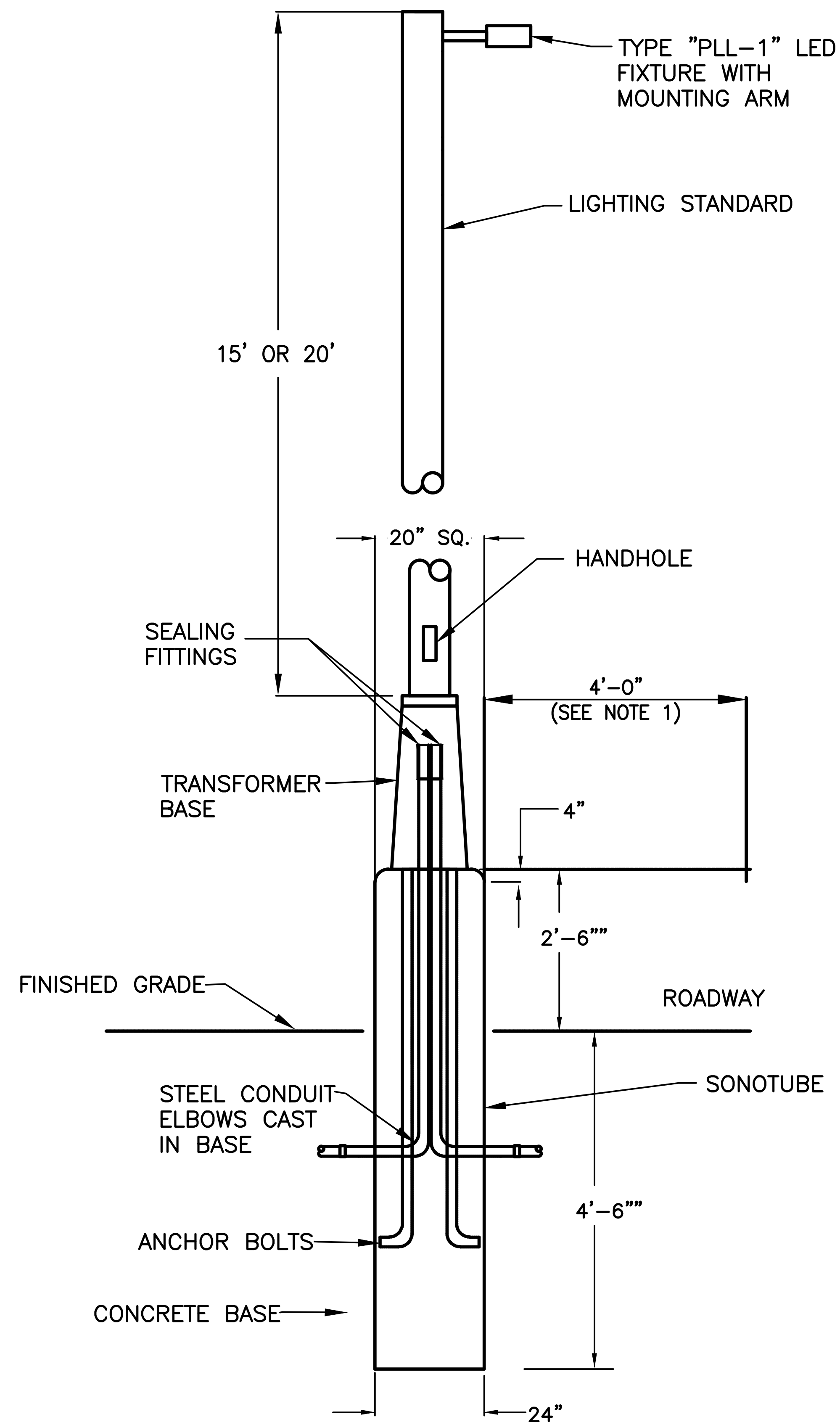
- A. WIRING FOR EQUIPMENT CONNECTED TO THE TANK MONITORING PANEL IS UNDER 120 VOLTS UNLESS OTHERWISE NOTED. WIRING OTHER THAN 120 VOLTS MAY BE COMBINED IN COMMON CONDUITS.
- B. WIRING FOR DEVICES CONNECTED TO THE TANK MONITORING PANEL IS A MINIMUM OF #22 UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- C. SEALING FITTINGS ARE NOT SHOWN. PROVIDE SEALING FITTINGS AT LOCATIONS INDICATED BY AND DEPICTED IN ARTICLES: 500, 501, 511, 514, AND 515 OF THE 2014 NEC.
- D. PROVIDE ALL WIRING IN CONDUIT. CONDUITS PENETRATING SLABS OR AREAS EXPOSED TO SALT SHALL BE PVC-COATED RIGID METAL CONDUIT. PVC-COATED CONDUIT SHALL EXTEND FROM BENEATH SLAB TO 2 FEET ABOVE SLAB.
- E. PULSER AND POWER CABLES SHALL NOT BE COMBINED IN COMMON RACEWAYS.
- F. CIRCUITS FROM TANK MONITORING PANEL OUTSIDE TO THE TANK LOCATION ARE INTRINSICALLY SAFE AND NEED TO BE RUN IN CONDUITS SEPARATE FROM ANY NON-INTRINSICALLY SAFE CIRCUITS.
- G. SURGE PROTECTION DEVICE SHALL BE PROVIDED FOR INDIVIDUAL EQUIPMENT. THE USE OF A BRANCH PANEL BOARD SUPPRESSOR IN PLACE OF INDIVIDUAL EQUIPMENT SURGE PROTECTION DEVICES SHALL BE DETERMINED ON A SITE BY SITE BASIS.

DESIGNATION: <u>LP-FD</u>	<input checked="" type="checkbox"/> FULLY RATED EQUIPMENT RATING IS REQUIRED FOR THIS PANELBOARD			PANELBOARD SHORT CIRCUIT RATING 10,000 RMS SYMMETRICAL AMPERES				
CABINET NEMA TYPE: 1 <input checked="" type="checkbox"/> 3R <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 12 <input type="checkbox"/>	<input type="checkbox"/> UL LISTED INTEGRATED EQUIPMENT SHORT CIRCUIT RATING IS ACCEPTABLE FOR THIS PANELBOARD			MAIN LUG ONLY <input type="checkbox"/>				
				MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/>				
MOUNTING: <u>SURFACE</u>	<input type="checkbox"/> UL LABEL 'SUITABLE FOR USE AS SERVICE EQUIPMENT'			FRAME	POLES	ATE	COMPONENTS (SEE BELOW)	
				100	26	60	—	
MAIN: <u>100</u>	BRANCH/FEEDER CIRCUIT BREAKERS							
VOLTAGE: <u>120/208 OR 240</u>	DESCRIPTION	ATE	NO.	A	B	NO.	ATE	DESCRIPTION
PHASE: <u>SINGLE</u>	GASOLINE DISPENSER	20	1			2	20	DIESEL DISPENSER
	DIESEL TANK HEATER (NOTE 2)	30	3			4	20	DIESEL HEAT TRACE (NOTE 2)
5					6	15	CARD READER/FUEL MANAGEMENT	
OTHER REQ: _____	LIGHTING	15	7			8	20	FIRE SUPPRESSION SYSTEM (NOTE 1)
FULL CAPACITY NEUTRAL BUS <input checked="" type="checkbox"/>	MAINTENANCE RECEPTACLE	20	9			10	20	CONTACTOR COIL VOLTAGE (NOTE 1)
	CONTACTOR CONTROL POWER	15	11			12	15	LEAK DETECTION PANEL
EQUIPMENT GROUNDING BUS <input checked="" type="checkbox"/>			13			14	20	PROTEUS MINI-ME
			15			16		
			17			18		

PANELBOARD SCHEDULE NOTES:

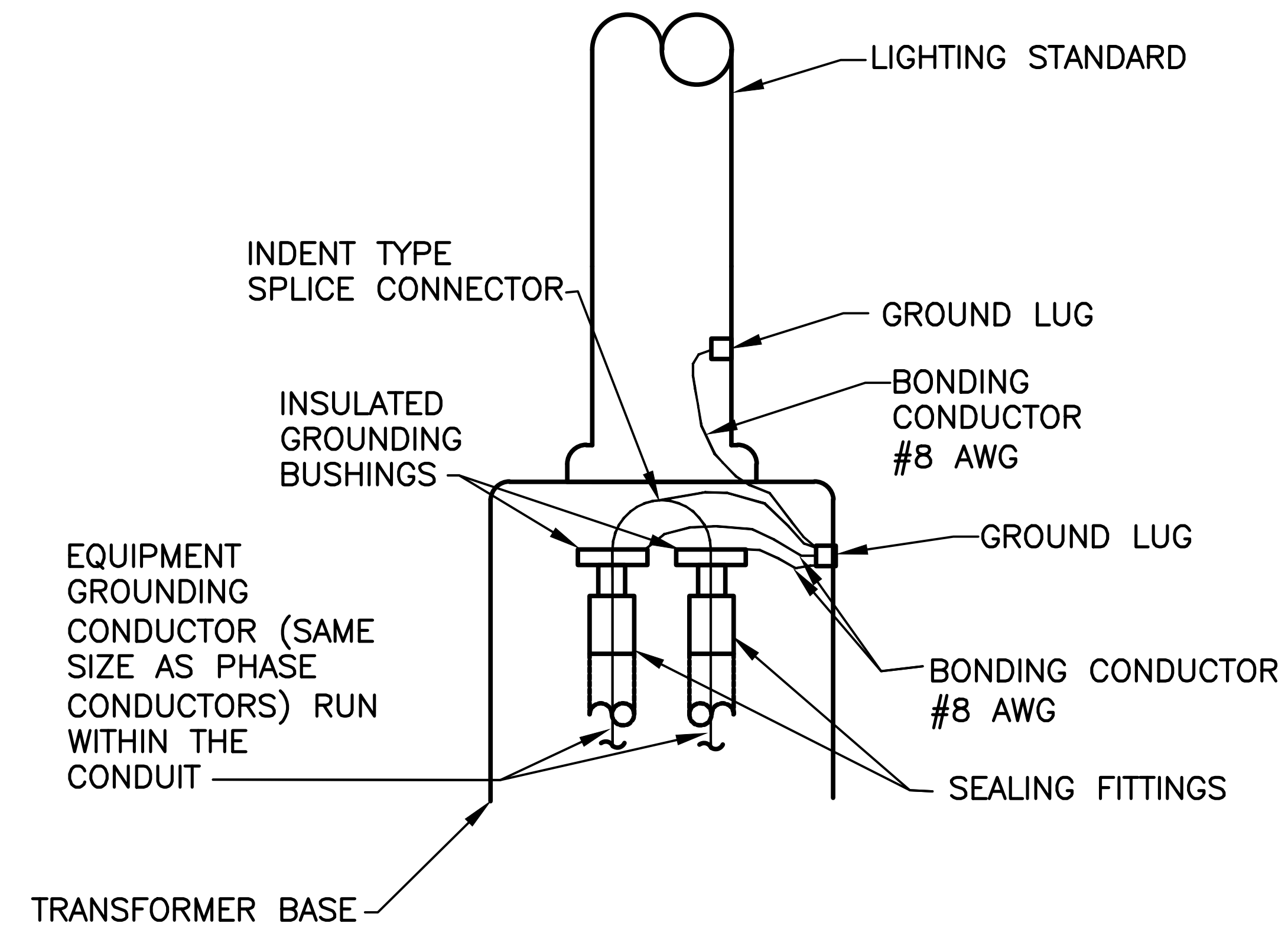
1. PROVISIONS FOR LOCKING BREAKER ON.
2. GROUND FAULT PROTECTION FOR EQUIPMENT TYPE.





LIGHTING STANDARD DETAIL

SCALE: NONE

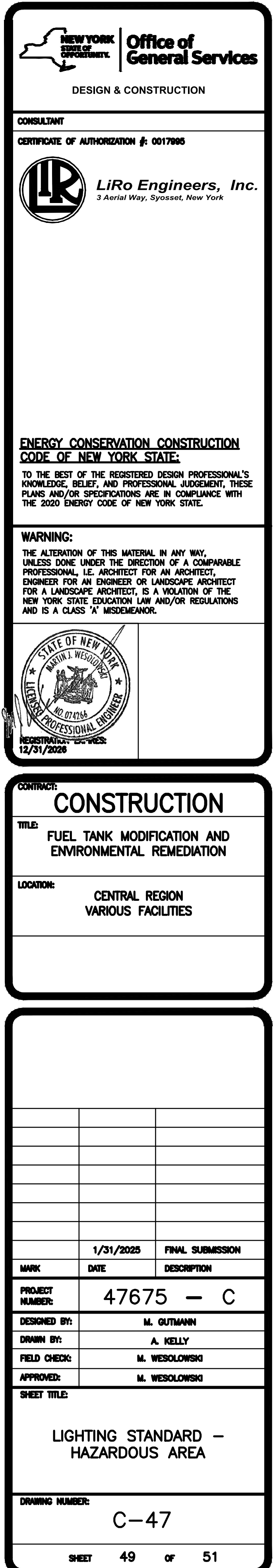


GROUNDING AND BONDING DETAIL FOR LIGHTING STANDARD

SCALE: NONE

NOTES:

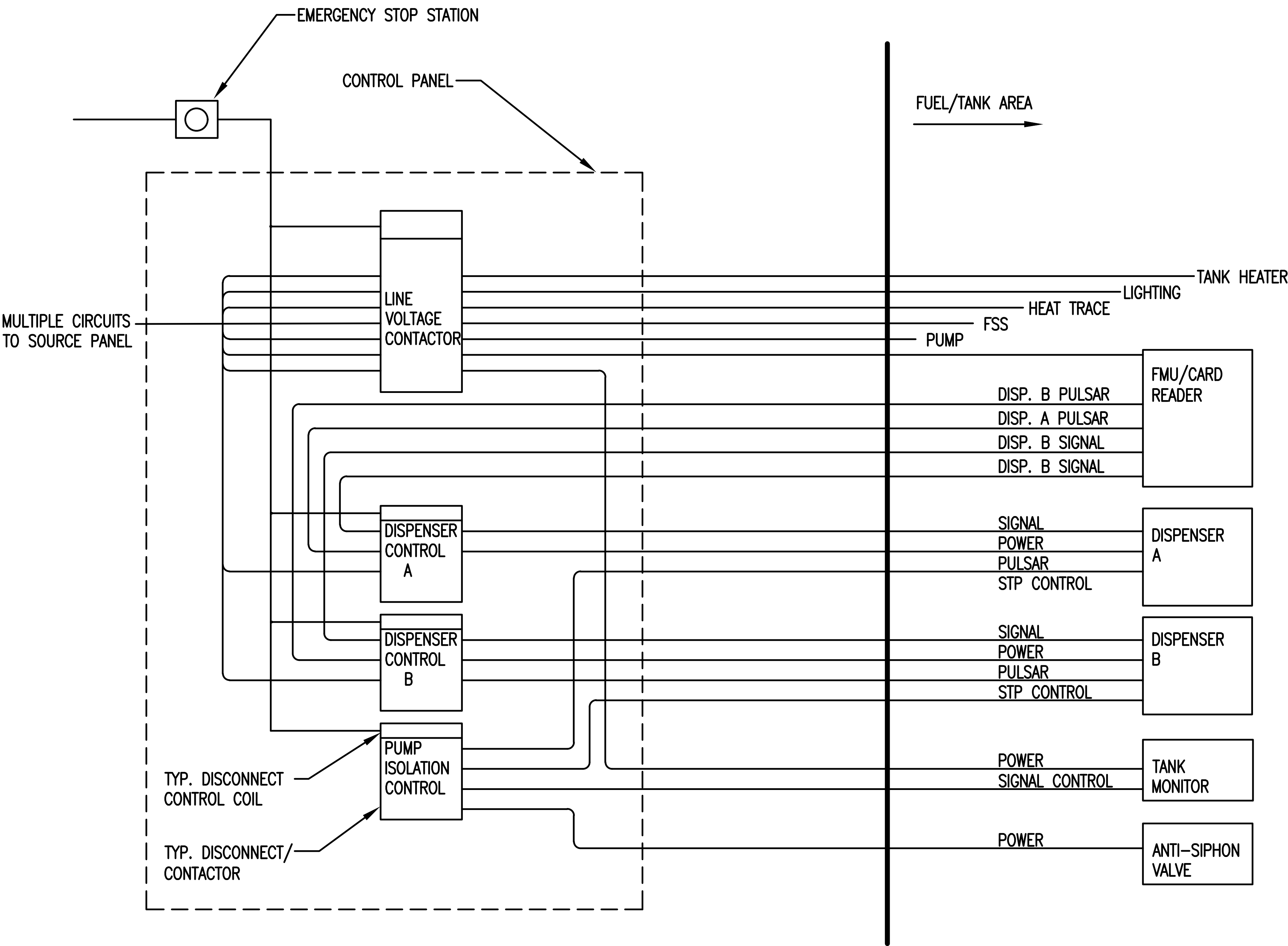
1. LOCATE LIGHTING STANDARD A MINIMUM OF 4' AWAY FROM FUEL DISPENSERS AND FUEL TANKS.
2. LIGHTING STANDARD IS NOT TO BE USED AS VERTICAL SUPPORT FOR THE FIRE SUPPRESSION SYSTEM.



GENERAL NOTES:

(THIS DRAWING ONLY)

- A. COMPONENTS SHOWN ON THE DETAIL ARE TYPICAL. NOT ALL INSTALLATIONS WILL REQUIRE ALL COMPONENTS SHOWN.
- B. DETAIL IS DIAGRAMMATIC ONLY, REFER TO MANUFACTURERS INSTALLATION REQUIREMENTS FOR EXACT REQUIREMENTS.
- C. SEALING FITTINGS ARE NOT SHOWN. PROVIDE SEALING FITTINGS AT LOCATIONS INDICATED BY AND DEPICTED IN ARTICLES: 500, 501, 511, 514, AND 515 OF THE 2017 NEC.
- D. PROVIDE ALL WIRING IN CONDUIT. CONDUITS PENETRATING SLABS OR AREAS EXPOSED TO SALT SHALL BE PVC-COATED RIGID METAL CONDUIT. PVC-COATED CONDUIT SHALL EXTEND FROM BENEATH SLAB TO 2 FEET ABOVE SLAB.
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CONTROL OVERVIEW DETAIL

Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017905

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CONTRACT:

CONSTRUCTION

TITLE:

FUEL TANK MODIFICATION AND ENVIRONMENTAL REMEDIATION

LOCATION:

CENTRAL REGION
VARIOUS FACILITIES

MARK	DATE	DESCRIPTION
	1/31/2025	FINAL SUBMISSION

PROJECT NUMBER:

47675 - C

DESIGNED BY:

M. GUTMANN

DRAWN BY:

A. KELLY

FIELD CHECK:

M. WESOLOWSKI

APPROVED:

M. WESOLOWSKI

SHEET TITLE:

CONTROL OVERVIEW DETAIL

DRAWING NUMBER:

C-49

SHEET

51

OF

51