

GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, ROUGH OPENING DIMENSIONS FOR WINDOWS, DOORS, ETC.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN FLOORS, ROOF, WALLS, ETC.
- DO NOT CUT OR DRILL OPENINGS IN ANY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- BEACH ROCKE ENGINEERING LTD. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF REQUIRED SITE INSPECTIONS. (TEL: 1-204-255-7251, FAX: 1-204-257-7239).
- STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL "BUILDING PROTECTION ACT", TO PROVIDE ALL NECESSARY SAFETY EQUIPMENT AS REQUIRED THEREIN AND TO NOTIFY LOCAL AUTHORITIES AS REQUIRED BY LAW.
- THE CONTRACTOR SHALL CONFORM TO THE COLD WEATHER REQUIREMENTS OF THE CSA STANDARD A23.1/A23.2 AND THE NATIONAL BUILDING CODE.
- IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO LOCATE ALL SITE SERVICES PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL DESIGN ALL SHORING, FORM WORK, AND BRACING TO ENSURE PROPER CONSTRUCTION AND ERECTION.
- THE CONTRACTOR SHALL VISIT THE SITE, AND NOTE ALL CHARACTERISTICS AND IRREGULARITIES AFFECTING THE WORK OF THIS SECTION.
- SHOP DRAWINGS NOT STAMPED, SIGNED, AND DATED BY THE CONTRACTOR WILL BE REJECTED AND SHALL BE CONSIDERED REJECTED. SHOP DRAWINGS FOR WORK DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER IN THE PROJECTS PROVINCE.
- THE CONTRACTOR SHALL SUBMIT AT LEAST 3 COPIES OF STAMPED SHOP DRAWINGS FOR ALL PRE-FABRICATED STRUCTURAL ASSEMBLIES, INCLUDING REINFORCING STEEL TO BEACH ROCKE ENGINEERING LTD. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS, EXCEPT REINFORCING STEEL, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE PROJECTS PROVINCE.

SLAB-ON-GRADE NOTES:

- ALL SLAB-ON-GRADE WILL EXPERIENCE MOVEMENT AND CRACKING DUE TO HEAVING AND SOIL EXPANSION RESULTING FROM THE NATURE OF THE CLAY SOIL, PREVIOUS AND PRESENT LEVEL OF VEGETATION AT THE SITE, SOIL MOISTURE LEVEL AND CONSTRUCTION PRACTICES. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THIS CRACKING AND/OR MOVEMENT.

CONCRETE NOTES:

- CONCRETE SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH THE CSA STANDARDS A23.1-09/A23.2-09.
- THE CONTRACTOR SHALL PROVIDE ONE SET OF STANDARD CONCRETE CYLINDER TEST RESULTS CONDUCTED BY AN INDEPENDENT TESTING FIRM FOR EACH DAYS POUR AND AN ADDITIONAL SET OF CYLINDERS FOR EVERY 50 CUBIC METERS POURED AT NO EXTRA COST TO THE OWNER. TEST RESULTS ARE TO BE FORWARDED TO BEACH ROCKE ENGINEERING LTD. IMMEDIATELY UPON RECEIPT FROM THE TESTING FIRM.
- PROVIDE A MINIMUM 150mm (6") VOID UNDER ALL BEAMS, WALLS AND STRUCTURAL SLABS. VOID TO BE SHEARMAT OR APPROVED CARDBOARD VOIDFORM.
- VIBRATE ALL CONCRETE TO ENSURE COMPLETE CONSOLIDATION.
- THE LOCATIONS OF CONSTRUCTION JOINTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY BEACH ROCKE ENGINEERING LTD.
- WHEN THE OUTSIDE TEMPERATURE FALLS BELOW 5 DEGREES CENTIGRADE, THE CONTRACTOR SHALL CONFORM TO CSA STANDARD A23.1-09/A23.2-09 AND THE NATIONAL BUILDING CODE FOR COLD WEATHER CONCRETING PROCEDURES, AND SHALL RECIEVE WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD. PRIOR TO COMMENCING CONCRETE CONSTRUCTION.
- PROVIDE 3/8" x 1" SAW CUTS AT 20' O.C. BOTH WAYS IN FLOOR SLABS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:

NAME	CONC. TYPE	STRENGTH	MAX. AGG.	SLUMP(MAX) AIR	EXPOSURE CLASS
SLABS	TYPE 10	32MPA @ 28 DAYS	20mm	120mm 5-8%	C-2

REINFORCING STEEL NOTES:

- REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BARS MANUFACTURED AND DETAILED IN ACCORDANCE WITH CAN/CSA-G30.18-M92, WITH MINIMUM YIELD STRENGTH AS FOLLOWS: 10M BARS-300MPA, 15M BARS & LARGER - 400MPA.
- REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST, MUD, OIL OR OTHER COATINGS WHICH MAY REDUCE THE BOND OR HARM THE CONCRETE.
- REINFORCING STEEL SHALL BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, TIES, ETC. SUPPLIED BY THE REINFORCING STEEL PROVIDER. APPROPRIATE SUPPORT SHALL BE PROVIDED UNDER ALL SUPPORT ACCESSORIES TO ENSURE THAT THE REINFORCING STEEL IS ACCURATELY POSITIONED.
- LAP TOP BARS AT MID-SPAN AND BOTTOM BARS OVER SUPPORTS.
- BEND ALL HORIZONTAL STEEL 18" AROUND CORNERS, OR USE EXTRA 36"x36" CORNER BARS TO MATCH HORIZONTALS.
- PROVIDE 2-15M AROUND ALL SLAB, WALL, & BEAM OPENINGS, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
- CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS:
 - CONCRETE CAST IN DIRECT CONTACT WITH SOIL - 75mm (3")
 - FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER - 50mm (2")
 - FORMED CONCRETE IN CONTACT WITH SOIL 20M OR LARGER - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (BEAMS AND COLUMNS) - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (SLABS AND WALLS) - 20mm (3/4")
- MISCELLANEOUS CONCRETE HOUSEKEEPING PADS AND CURBS SHALL BE REINFORCED WITH A MINIMUM 10M AT 18" O.C. EACH WAY UNLESS NOTED. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CAN/CSA-S16-09 BY FULLY CERTIFIED MEMBERS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE CAN/CSA G40.21-350W CLASS C TO SIZES AND SHAPES INDICATED ON THE DRAWINGS. NO SUBSTITUTIONS IN GRADES OR SIZES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF BEACH ROCKE ENGINEERING LTD. ALL ANGLES AND PLATES TO BE G40.21-300W.
- ALL FABRICATION SHALL BE CARRIED OUT IN PLANT FACILITIES CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA S16-09 AND S136. SITE FABRICATION IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CSA W59 BY WELDERS FULLY CERTIFIED FOR STRUCTURAL WELDING BY THE CANADIAN BUREAU TO CSA W47.1. ALL BASE AND CAP PLATES SHALL BE FULLY WELDED TO COLUMNS.
- STRUCTURAL FASTENERS SHALL BE A325 BOLTS. ANCHOR BOLTS SHALL BE 18" LG. C/W 3"HOOK (A307) UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. BASE AND CAP PLATES TO BE 3/4" THICK. CAP PLATES TO HAVE MIN. 4 BOLT (A325) CONNECTION UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
- PROVIDE TEMPORARY GUYING AND BRACING AS NECESSARY TO PROVIDE STABILITY FOR THE WHOLE STRUCTURE UNTIL DECKING AND PERMANENT BRACING ARE SECURED IN PLACE.
- PROVIDE 3/8" STIFFENER PLATES IN ALL BEAMS CONTINUOUS OVER SUPPORTS. HOLES ARE NOT PERMITTED IN THE TOP FLANGES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CLEAN ALL FIELD WELDS AND TOUCH UP WITH PRIMER TO MATCH SHOP COAT - ZINC PAINT
- DESIGN AND FABRICATE CONNECTIONS FOR THE FULL STRENGTH OF THE MEMBER. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS WRITTEN APPROVAL FROM THE DESIGN ENGINEER HAS BEEN PROVIDED.
- ALL STEEL SHALL BE GALVANIZED.**
- STRUCTURAL STEEL SUPPLIER SHALL PROVIDE STAMPED SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

STRUCTURAL DRAWING LIST:

- S1 - STRUCTURAL PROJECT NOTES
- S2 - TYP TANK SLAB, BOLLARD AND BASE PLATE DETAILS & ISOMETRIC VIEW OF METAL STAND
- S3 - CONNECTION #1 DETAILS
- S4 - CONNECTION #2 DETAILS
- S5 - TANK #1 - PLAN VIEW OF TANK ON SLAB
- S6 - TANK #1 - ELEVATIONS OF TANK ON SLAB
- S7 - TANK #2 - PLAN VIEW OF TANK ON LOW METAL STAND
- S8 - TANK #2 - ELEVATIONS OF LOW METAL STAND
- S9 - TANK #2 - ELEVATIONS OF LOW METAL STAND
- S10 - TANK #3 - PLAN VIEW OF TANK ON HIGH METAL STAND
- S11 - TANK #3 - ELEVATIONS OF HIGH METAL STAND
- S12 - TANK #3 - ELEVATIONS OF HIGH METAL STAND
- S13 - TANK #4 - PLAN VIEW OF TANK ON LOW DOUBLE METAL STAND
- S14 - TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
- S15 - TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
- S16 - TANK #5 - PLAN VIEW OF TANK ON HIGH DOUBLE METAL STAND
- S17 - TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND
- S18 - TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
PROJECT NOTES

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

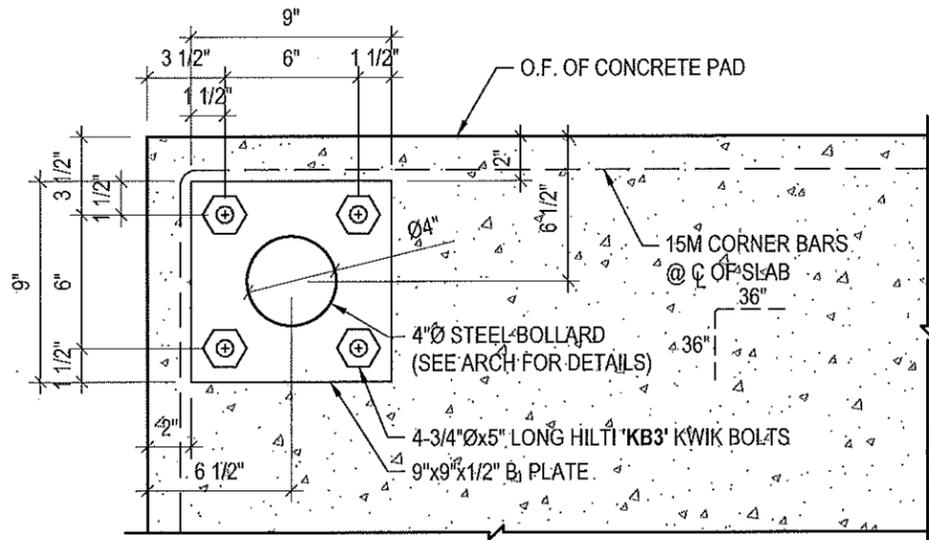
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

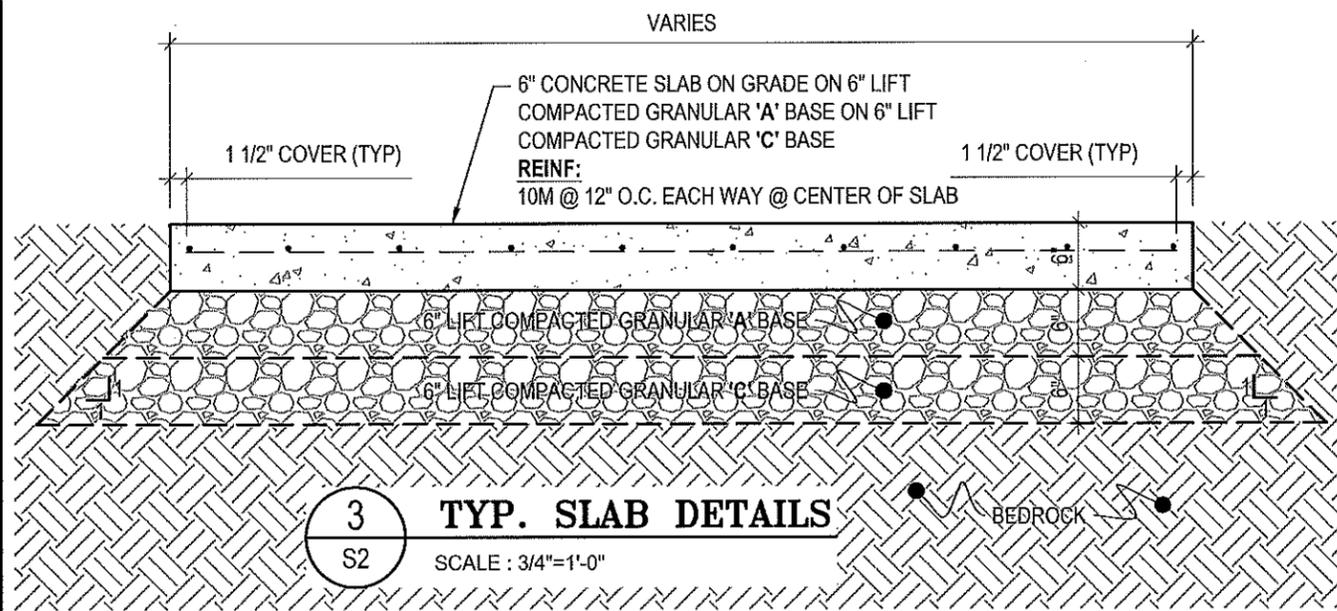
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S1

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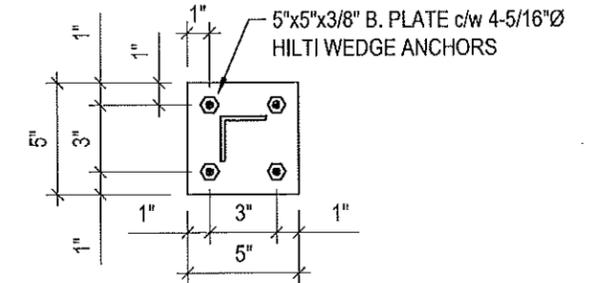


1 TYP BOLLARD BASE PLATE DETAILS
S2 SCALE : 1 1/2"=1'-0"

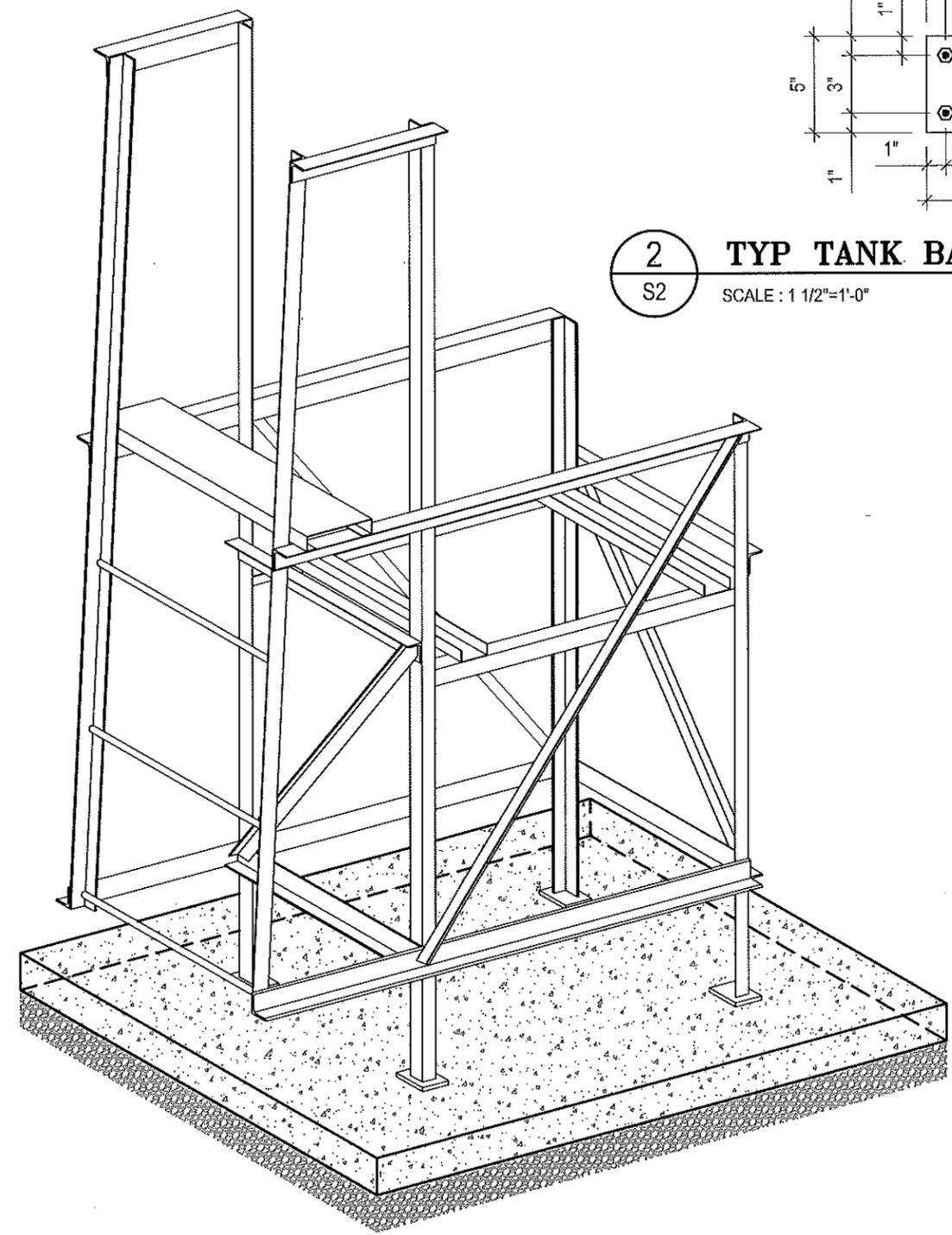
NOTES:
 • ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 • CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



3 TYP. SLAB DETAILS
S2 SCALE : 3/4"=1'-0"



2 TYP TANK BASE PLATE DETAIL
S2 SCALE : 1 1/2"=1'-0"



4 TYP. ISOMETRIC VIEW OF METAL STANDS
S2 NOT TO SCALE



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RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
TYPICAL PROJECT DETAILS
 PROJECT NUMBER:
17-122-CG-39

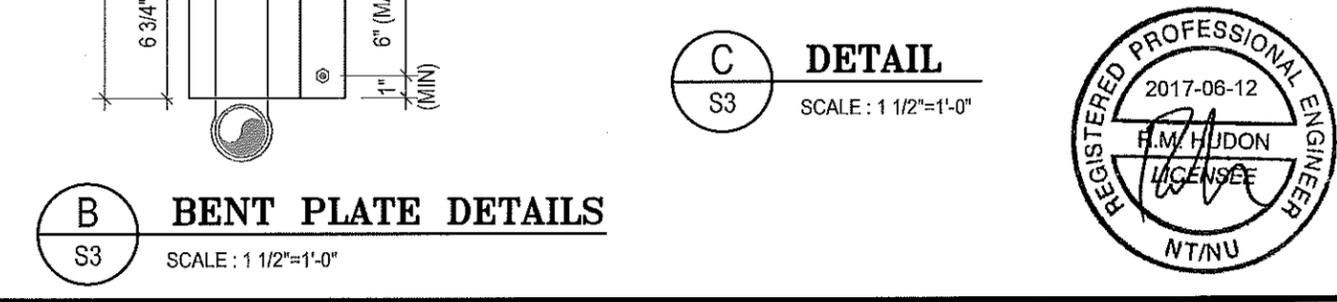
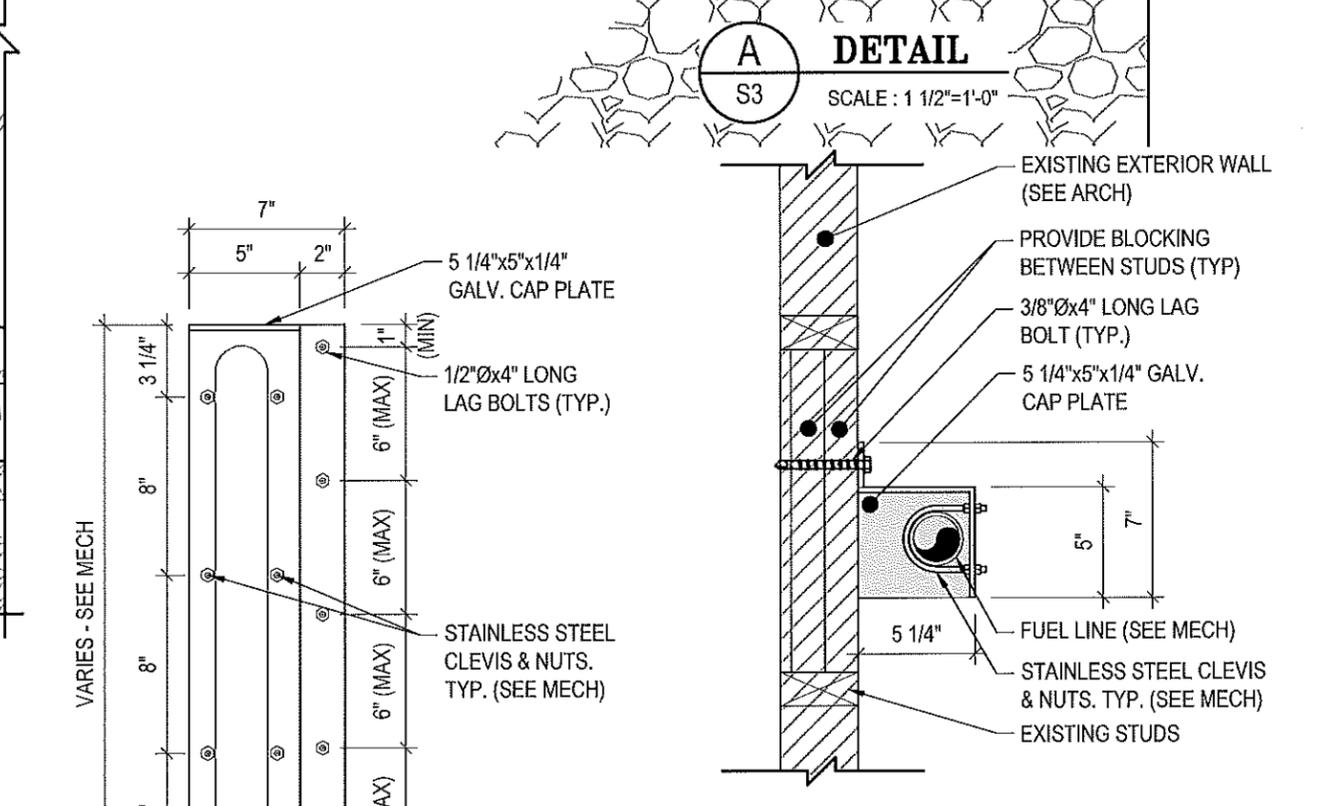
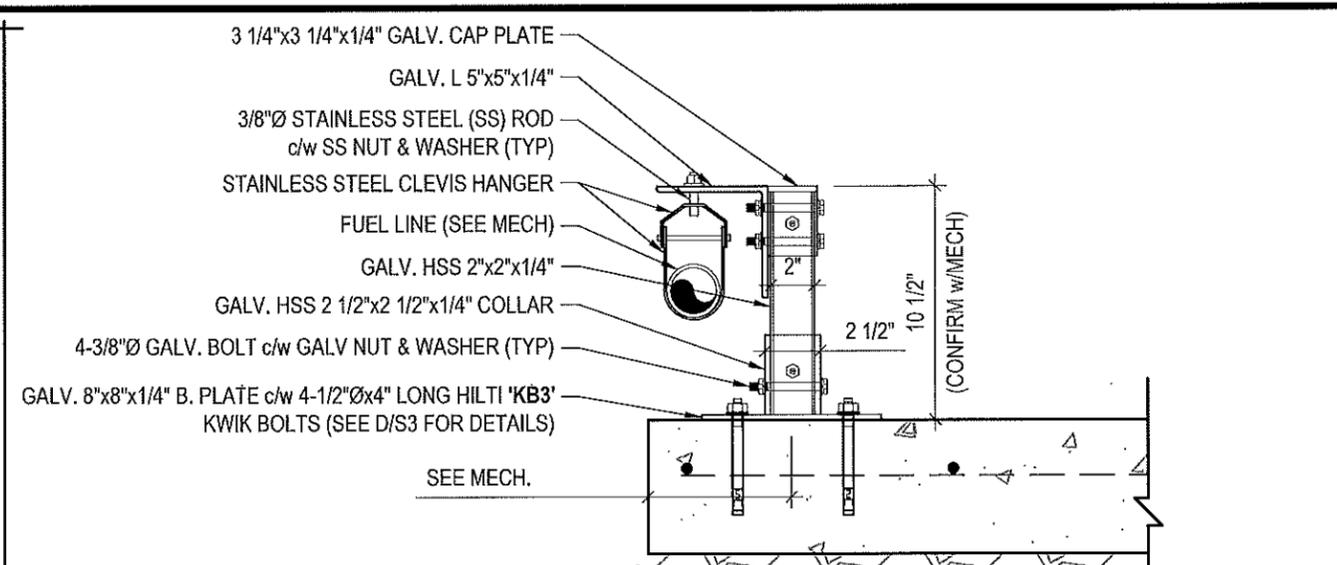
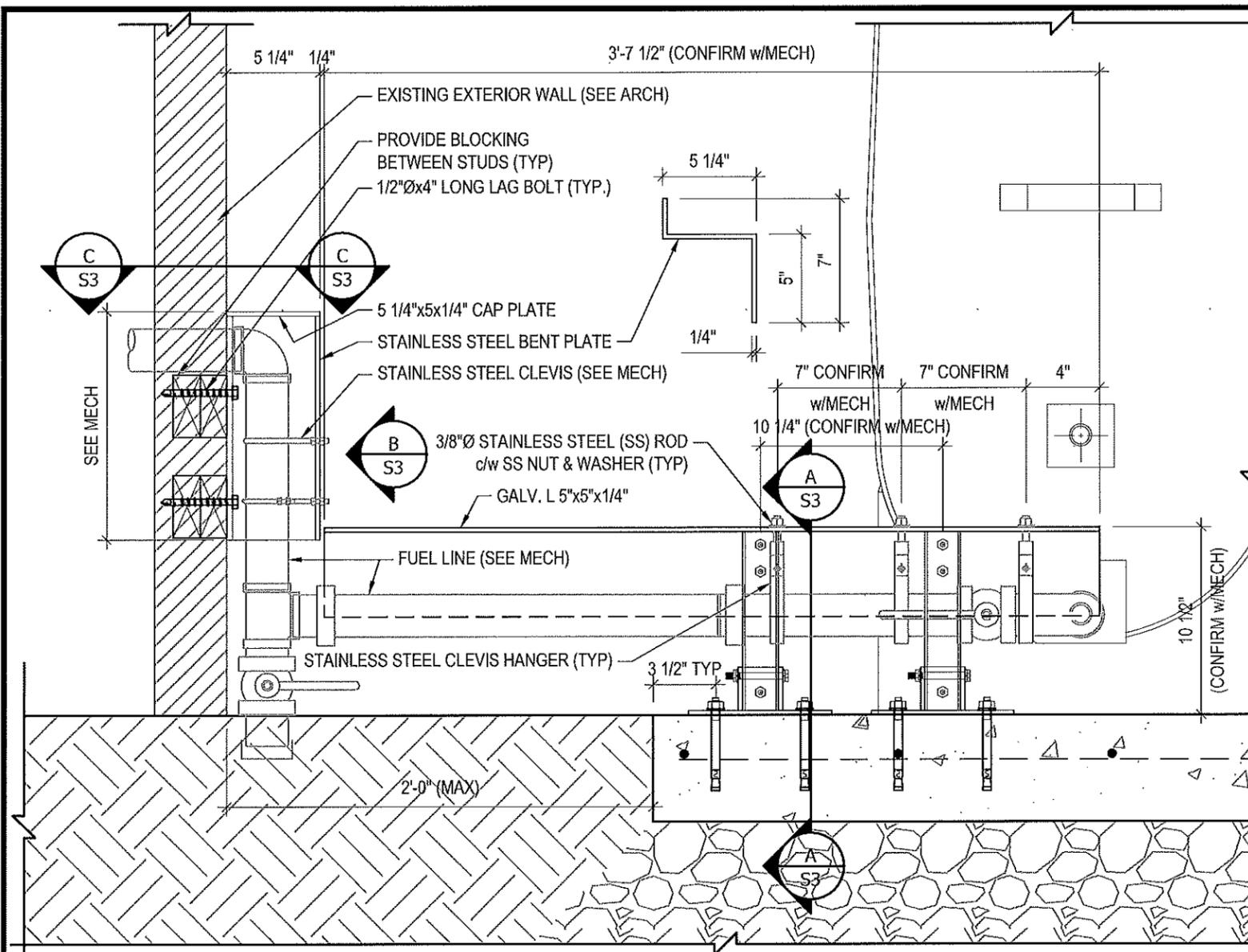


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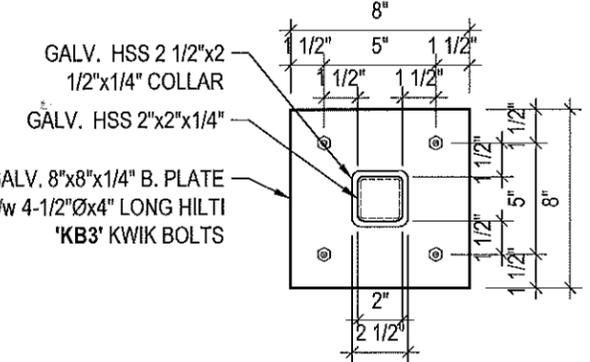
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 DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S2
 REVISION NUMBER:
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1 CONNECTION #1 DETAILS
S3 SCALE: 1 1/2"=1'-0"

NOTES:
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D BASE PLATE DETAILS
S3 SCALE: 1 1/2"=1'-0"

B BENT PLATE DETAILS
S3 SCALE: 1 1/2"=1'-0"

C DETAIL
S3 SCALE: 1 1/2"=1'-0"



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 SHEET TITLE:
CONNECTION #1 DETAILS
 PROJECT NUMBER:
17-122-CG-39



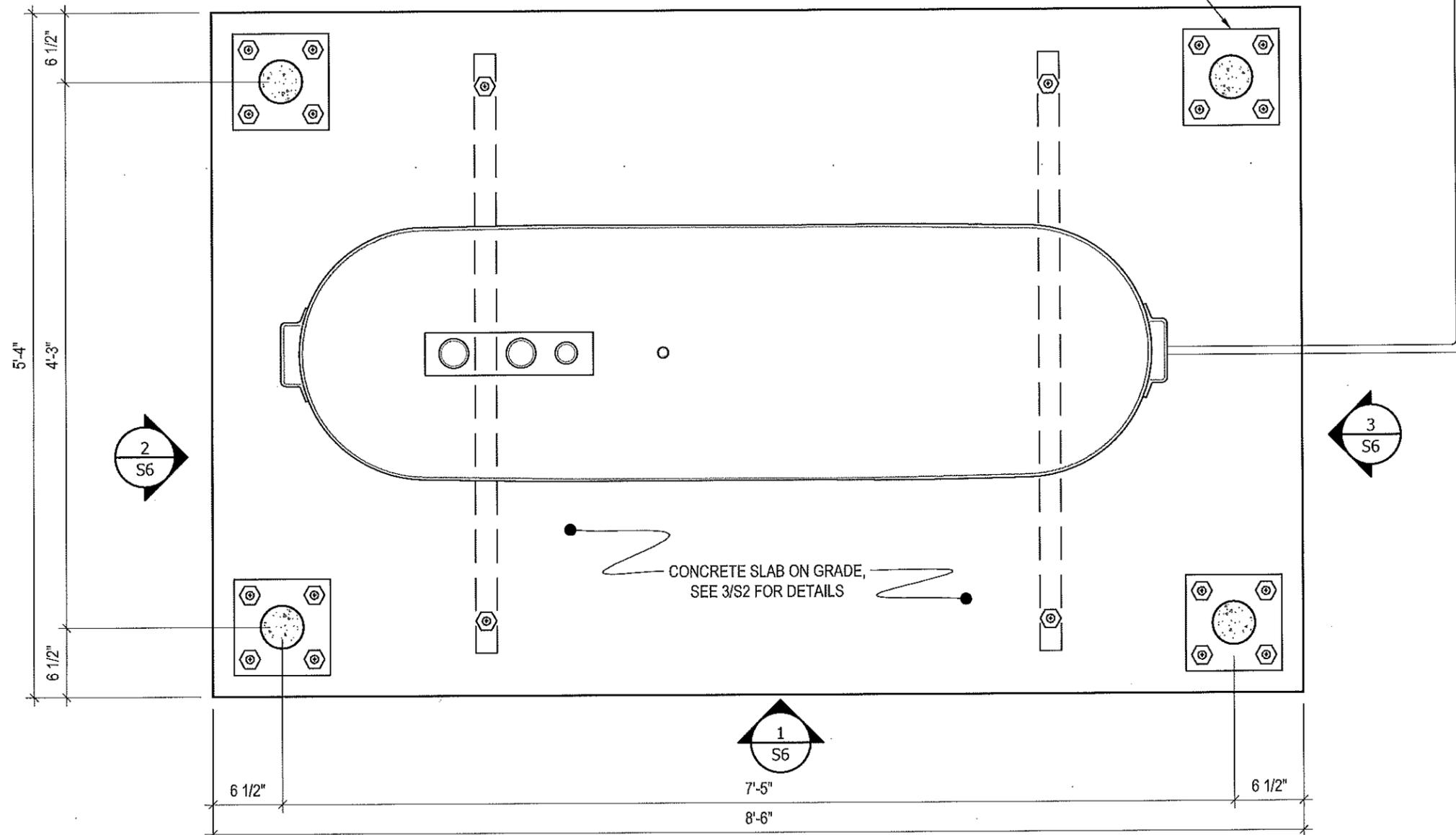
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17 06 12

DRAWING NUMBER:
S3
 REVISION NUMBER:
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CONCRETE BOLLARD BASE PLATE. SEE 1/2 FOR STRUCTURAL DETAILS, SEE MECHANICAL DRAWINGS FOR LOCATION AND NUMBER OF BOLLARDS REQUIRED FOR EACH CONCRETE PAD BASE



1 PLAN VIEW - TANK #1
S5 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #1 - PLAN VIEW
PROJECT NUMBER:
17-122-CG-39

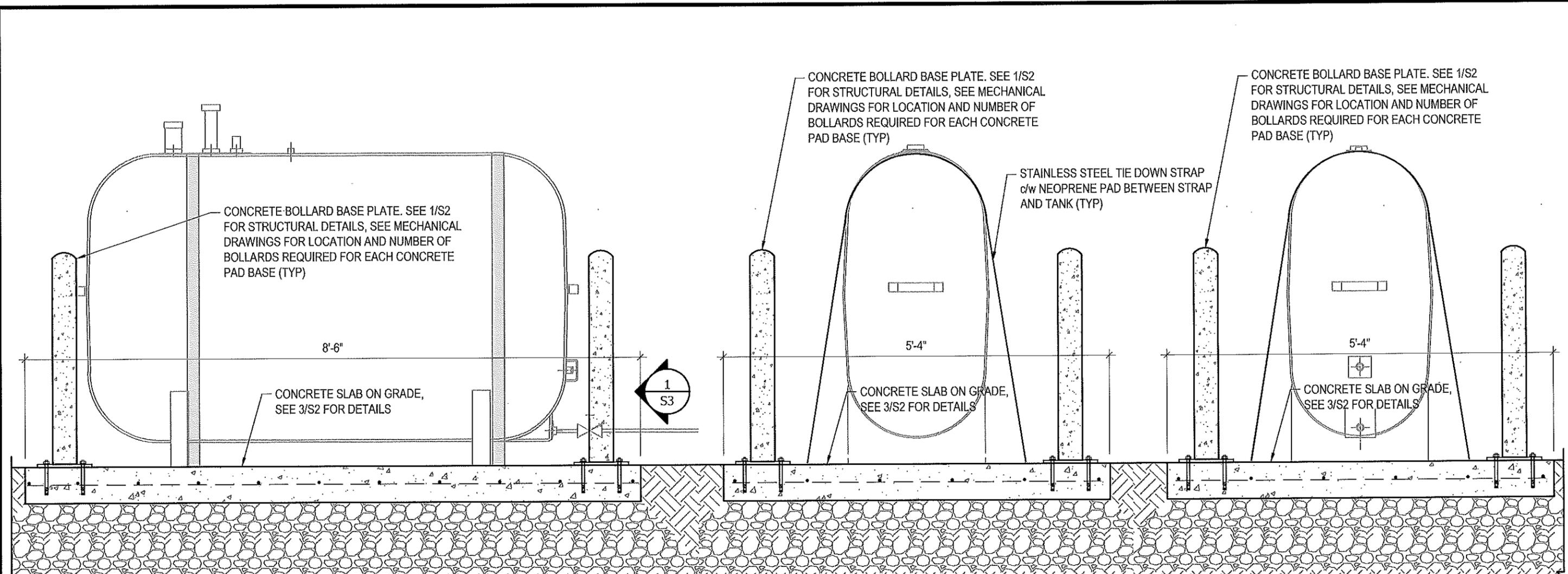
Beach Rocke
ENGINEERING LTD.
Professional Engineering Services
1053 St. Mary's Road, Winnipeg, Manitoba R2M 3S9
Telephone: (204) 255 7251 Fax: (204) 257 7239
Website: www.beachrocke.ca

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SCALE:
AS NOTED
DATE (YY MM DD):
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DRAWING NUMBER:
S5
REVISION NUMBER:
00



1 FRONT ELEVATION - TANK #1
S6 SCALE : 3/4"=1'-0"

2 LEFT ELEVATION - TANK #1
S6 SCALE : 3/4"=1'-0"

3 RIGHT ELEVATION - TANK #1
S6 SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #1 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39

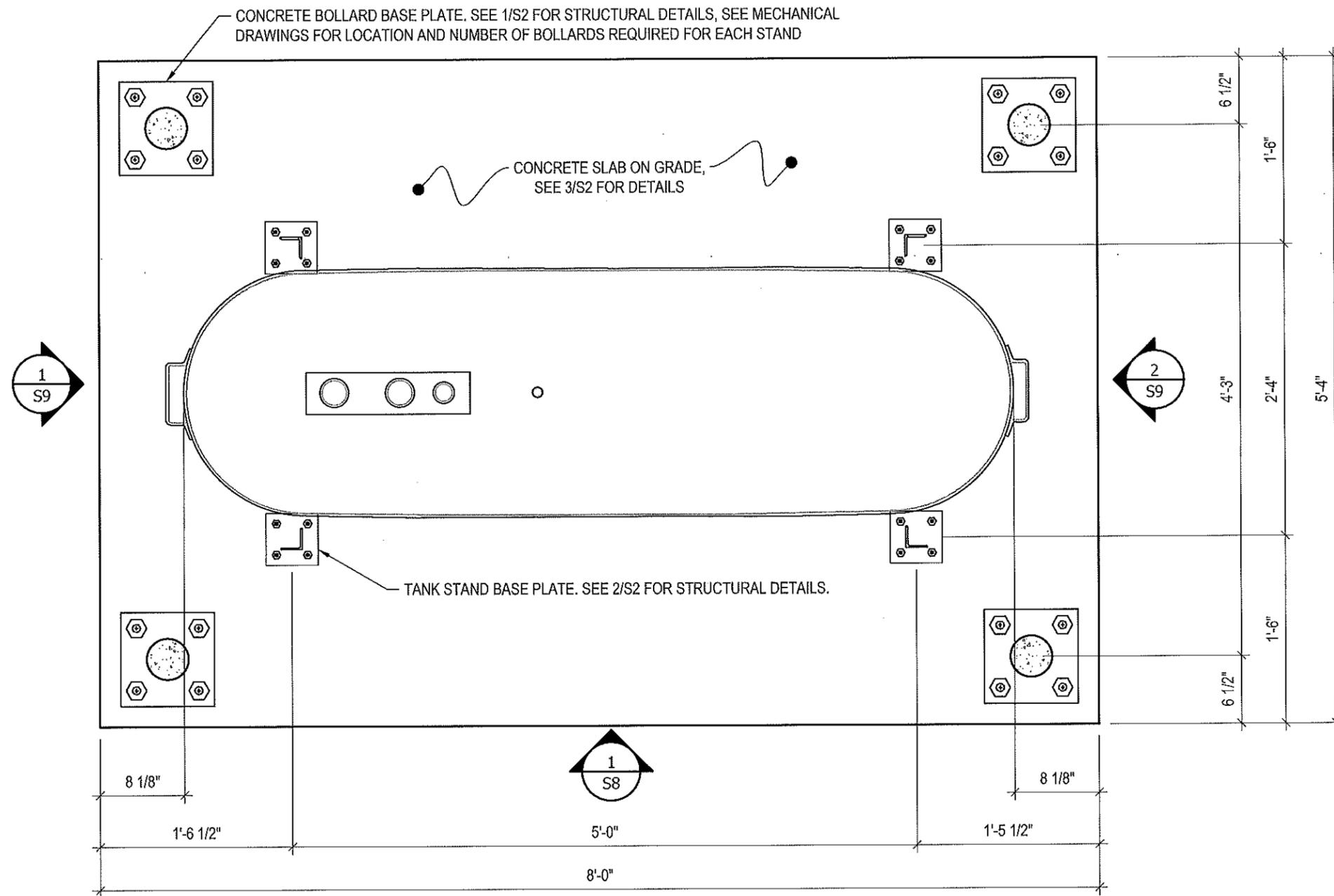


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DRAWING NUMBER:
S6
REVISION NUMBER:
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1 PLAN VIEW - TANK #2
S7 SCALE: 1"=1'-0"



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RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #2 - PLAN VIEW
PROJECT NUMBER:
17-122-CG-39



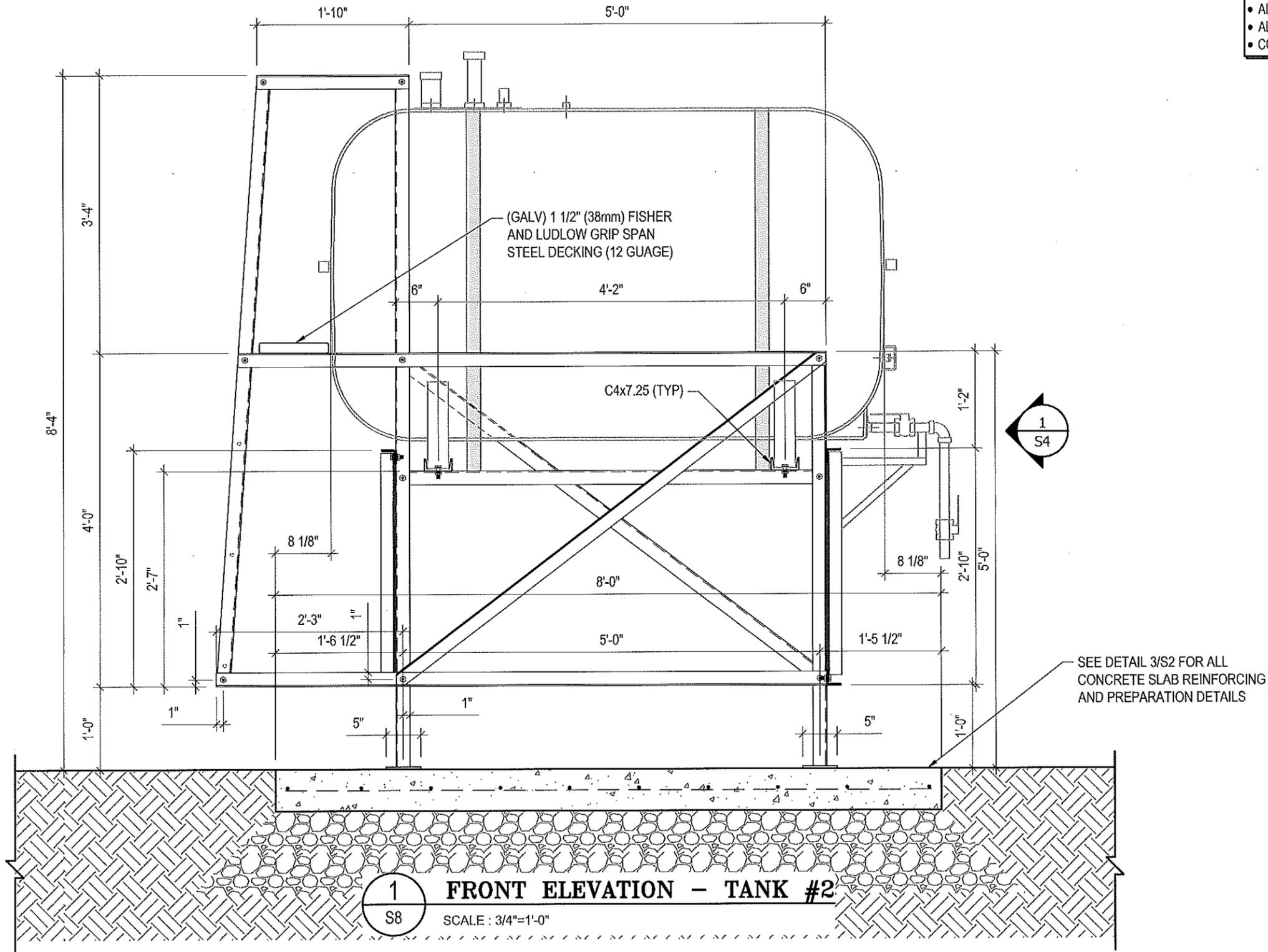
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SCALE:
AS NOTED
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17 06 12

DRAWING NUMBER:
S7
REVISION NUMBER:
00

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #2 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



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REV. # REVISION

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SCALE:
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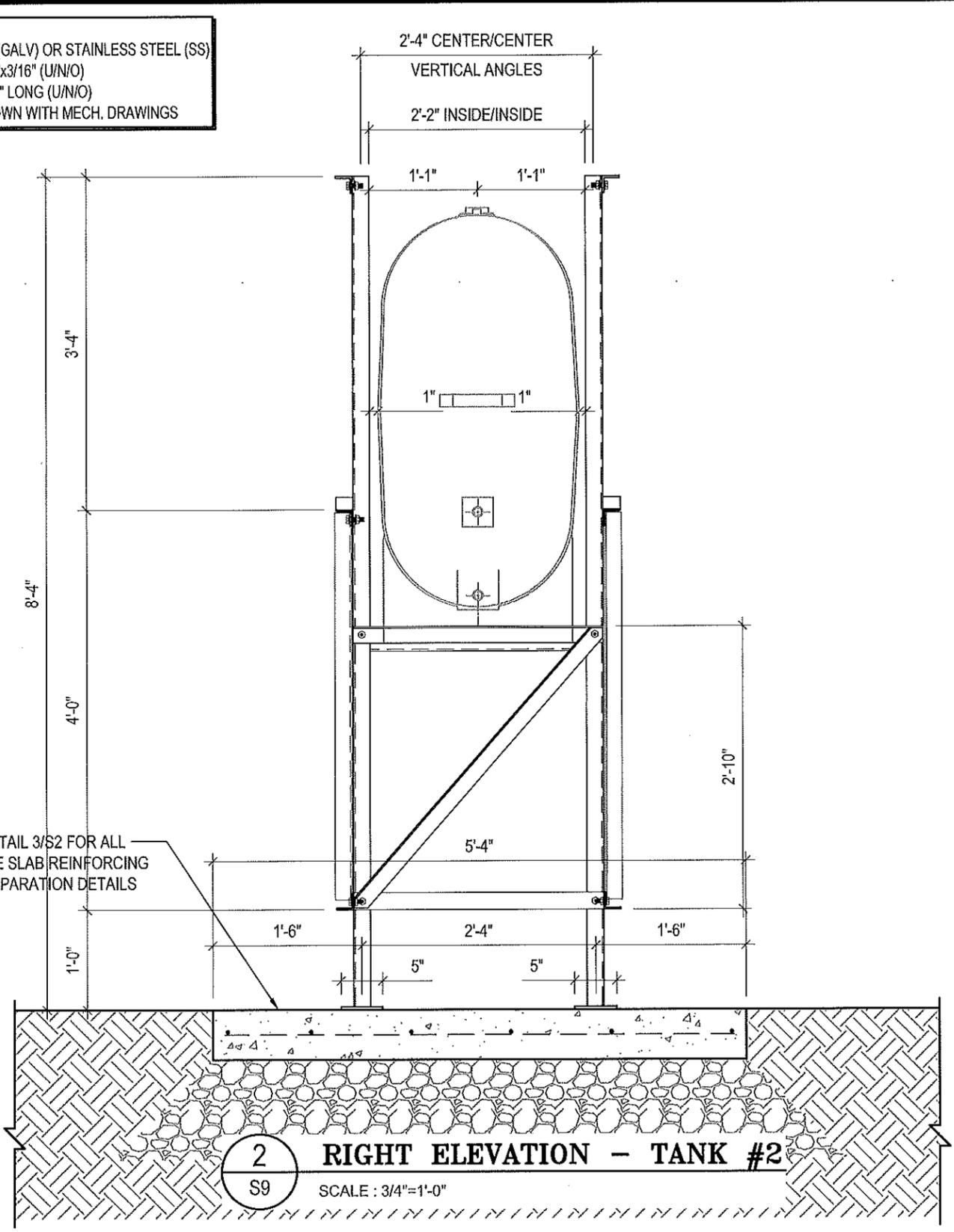
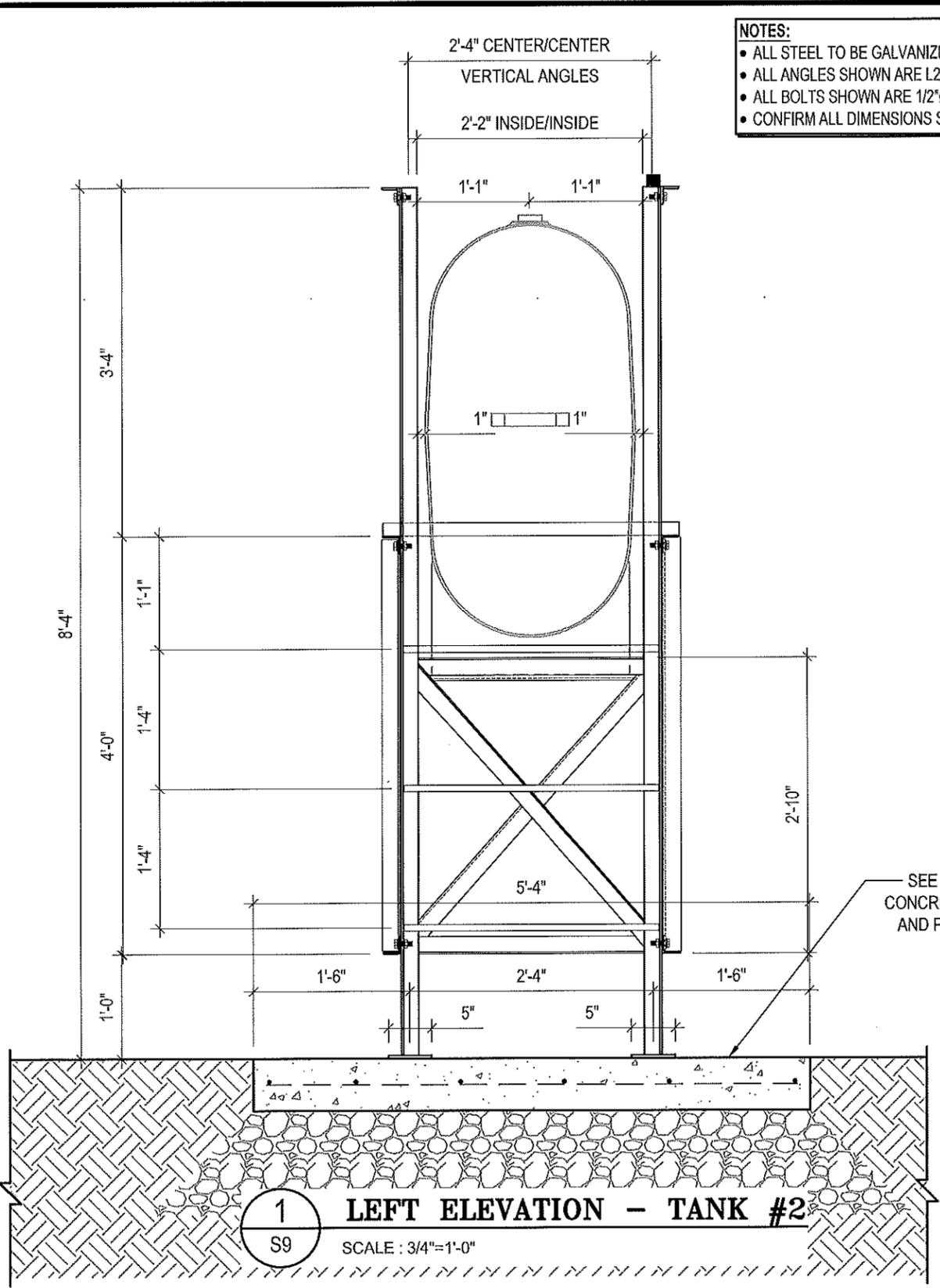
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DRAWING NUMBER:

S8

REVISION NUMBER:
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PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #2 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



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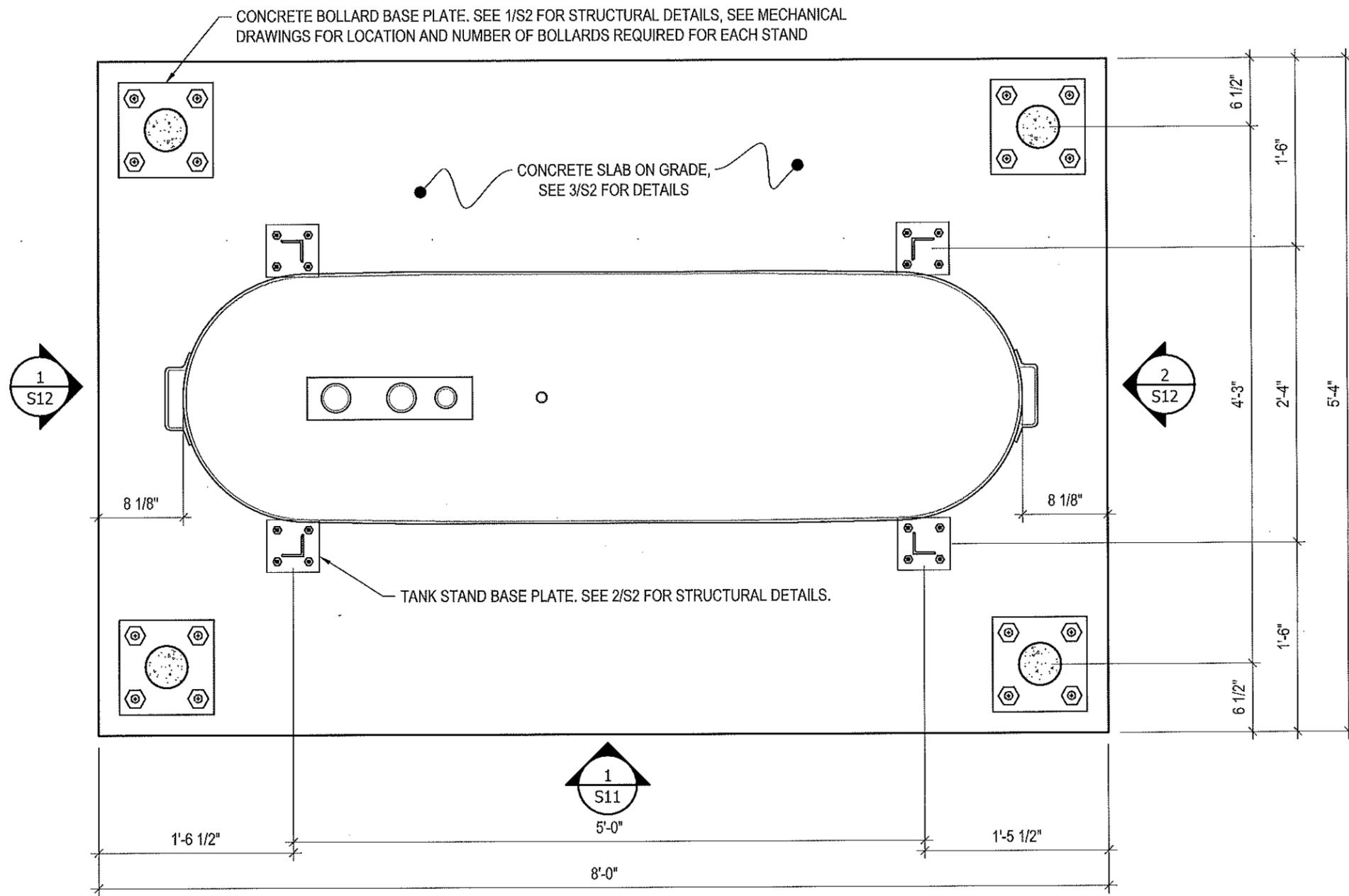
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SCALE:
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DATE (YY MM DD):
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DRAWING NUMBER:
S9

REVISION NUMBER:
00



1 PLAN VIEW - TANK #3
 S10 SCALE: 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39

Beach Rocke
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 Professional Engineering Services
 1050 St. Mary's Road, Windsor, Manitoba R2M 3S9
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 Website: www.beachrocke.ca

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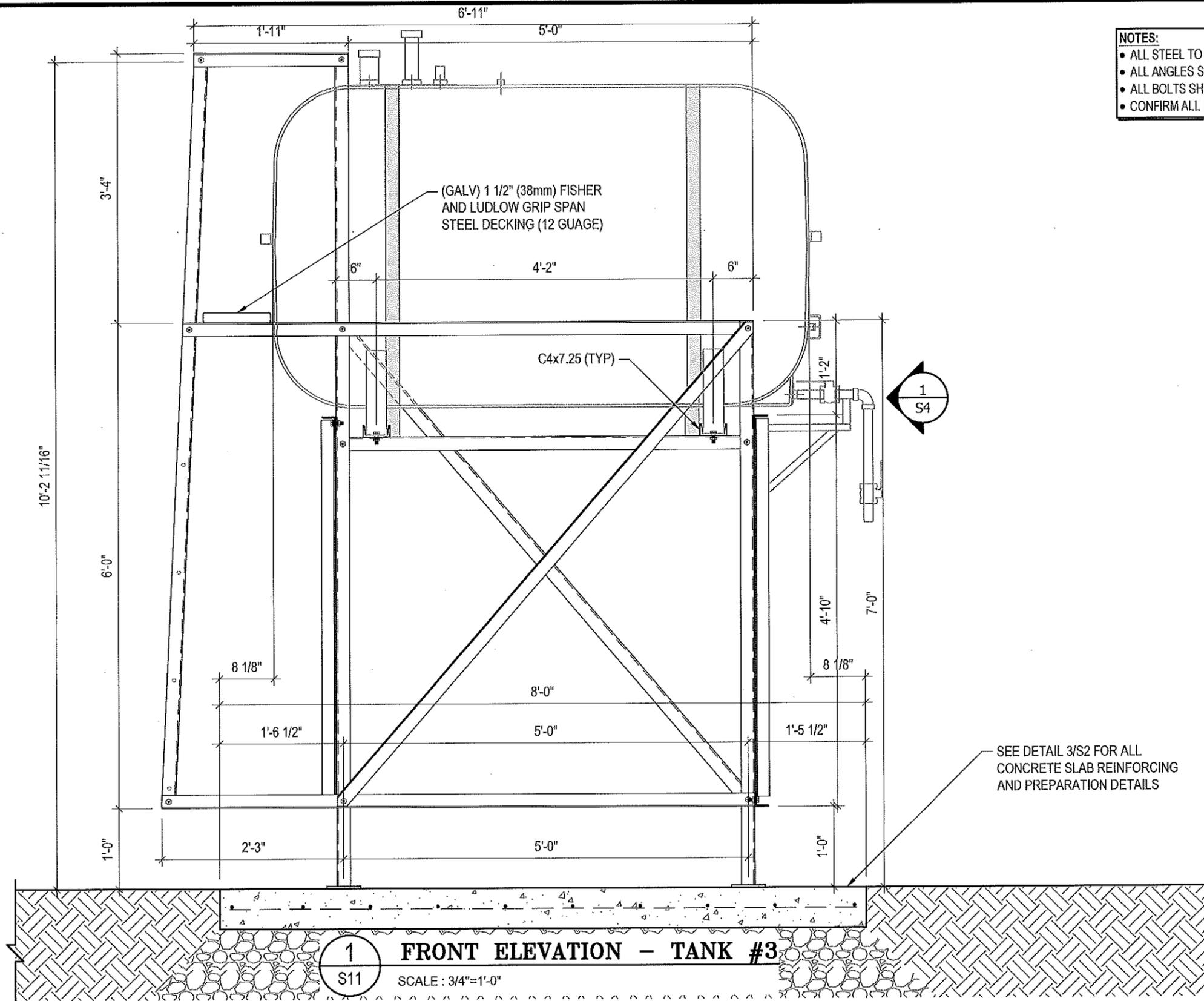
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SCALE:
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DATE (YY MM DD):
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DRAWING NUMBER:
S10

REVISION NUMBER:
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 - ALL BOLTS SHOWN ARE 1/2"x2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

1 FRONT ELEVATION - TANK #3
S11 SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39

Beach Rocks
ENGINEERING LTD.
Professional Engineering Services
1050 St. Mary's Road, Windsor, Ontario N2M 2S9
Telephone: (519) 253-7251 Fax: (519) 257-7232
Website: www.beachrocks.ca

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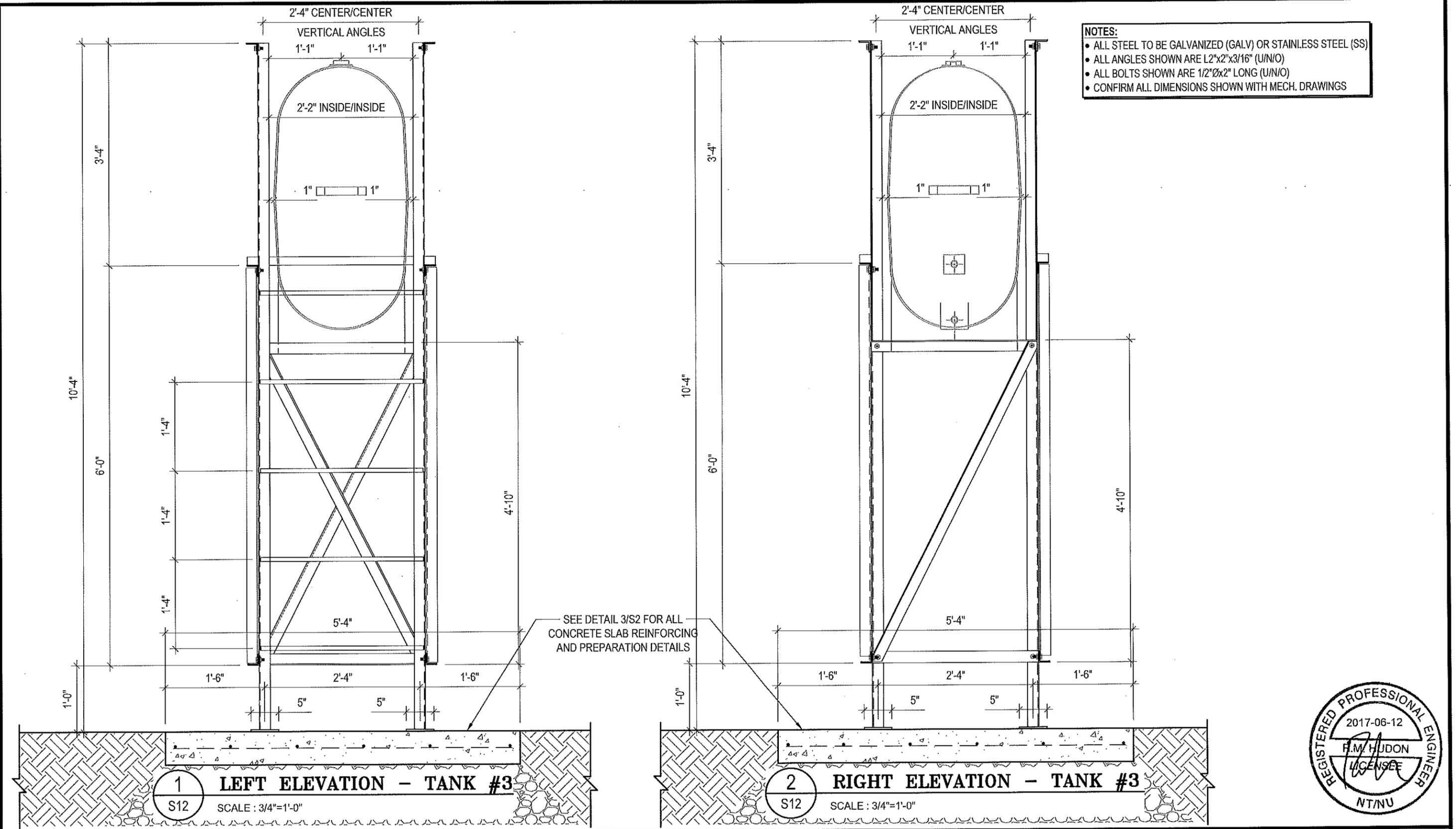
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SCALE:
AS NOTED

DATE (YY MM DD):
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DRAWING NUMBER:
S11

REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
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 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
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PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - ELEVATIONS

PROJECT NUMBER:
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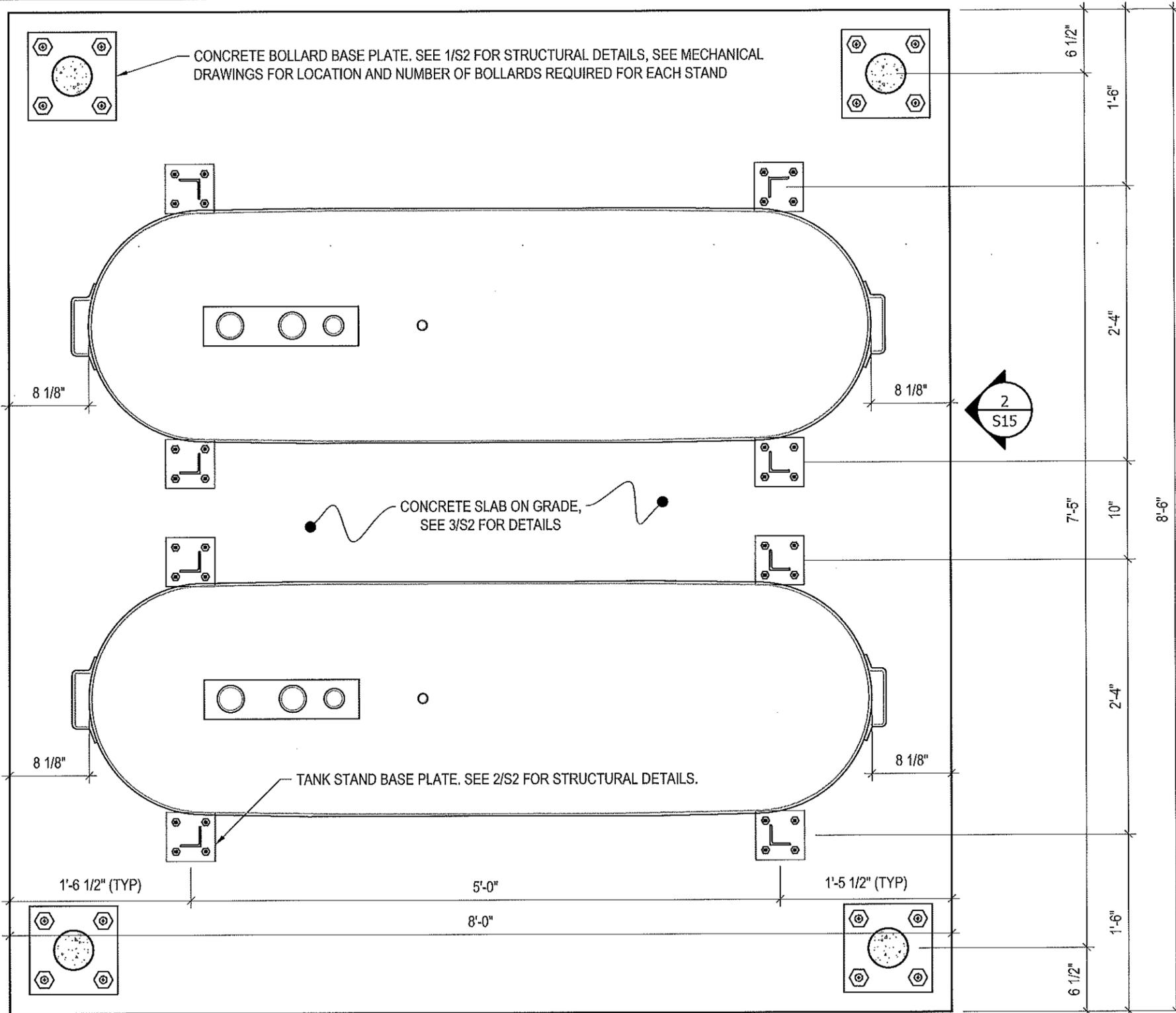
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S12

REVISION NUMBER:
00



1 PLAN VIEW - TANK #4
 S13 SCALE: 1"=1'-0"
 1/S14



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

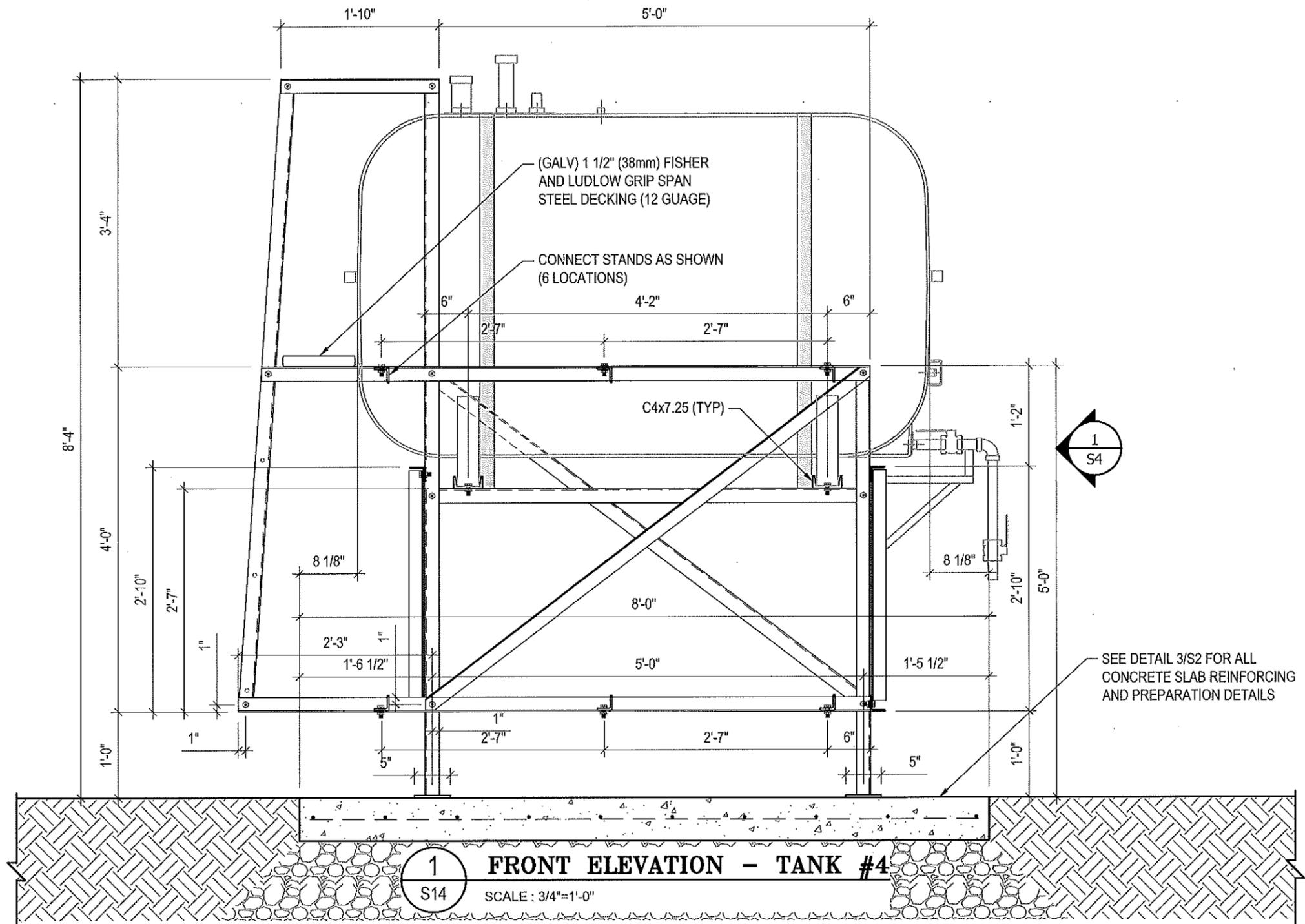
SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S13

REVISION NUMBER:
00

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1
S14
FRONT ELEVATION - TANK #4
SCALE: 3/4"=1'-0"

SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 08 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

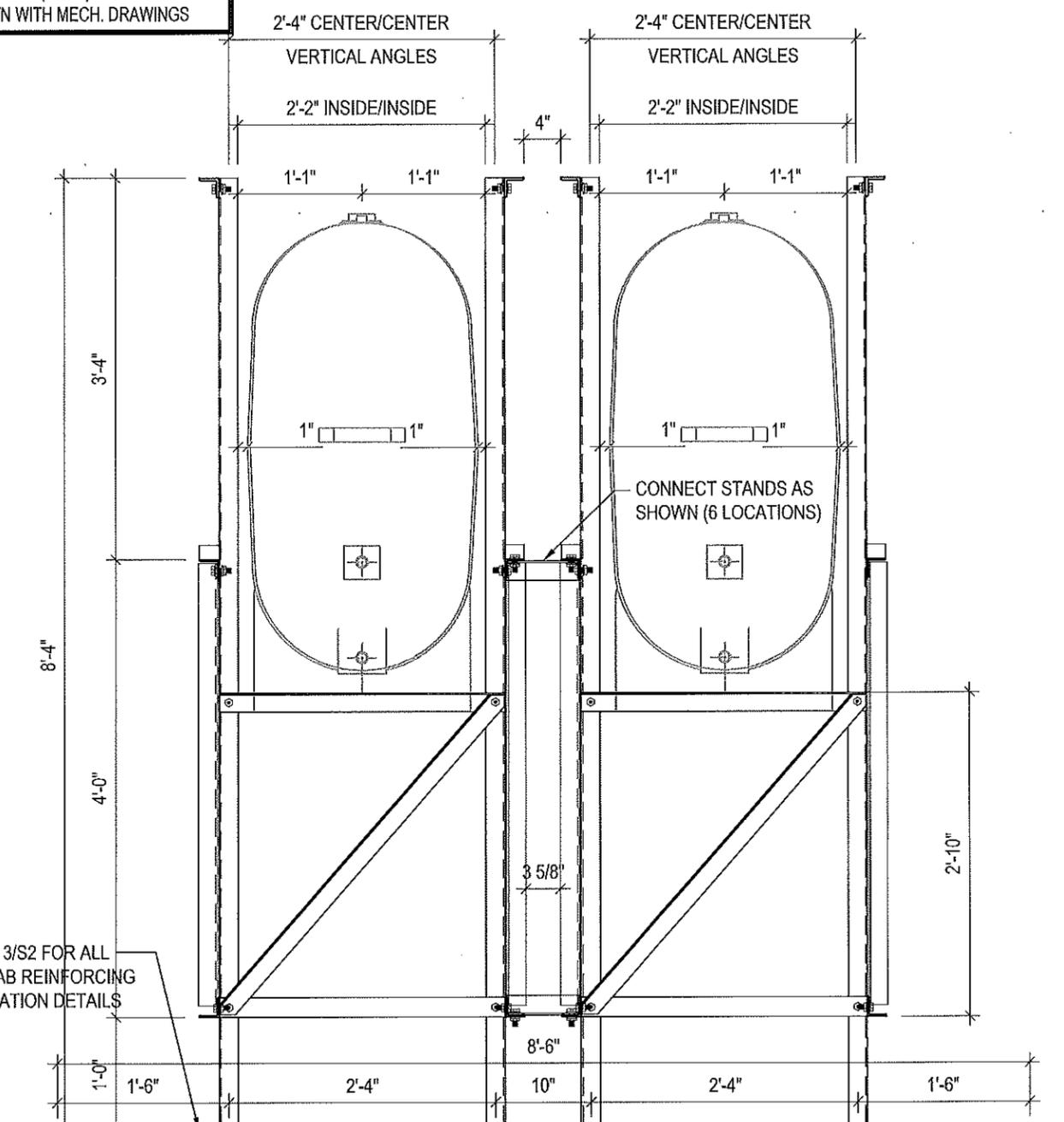
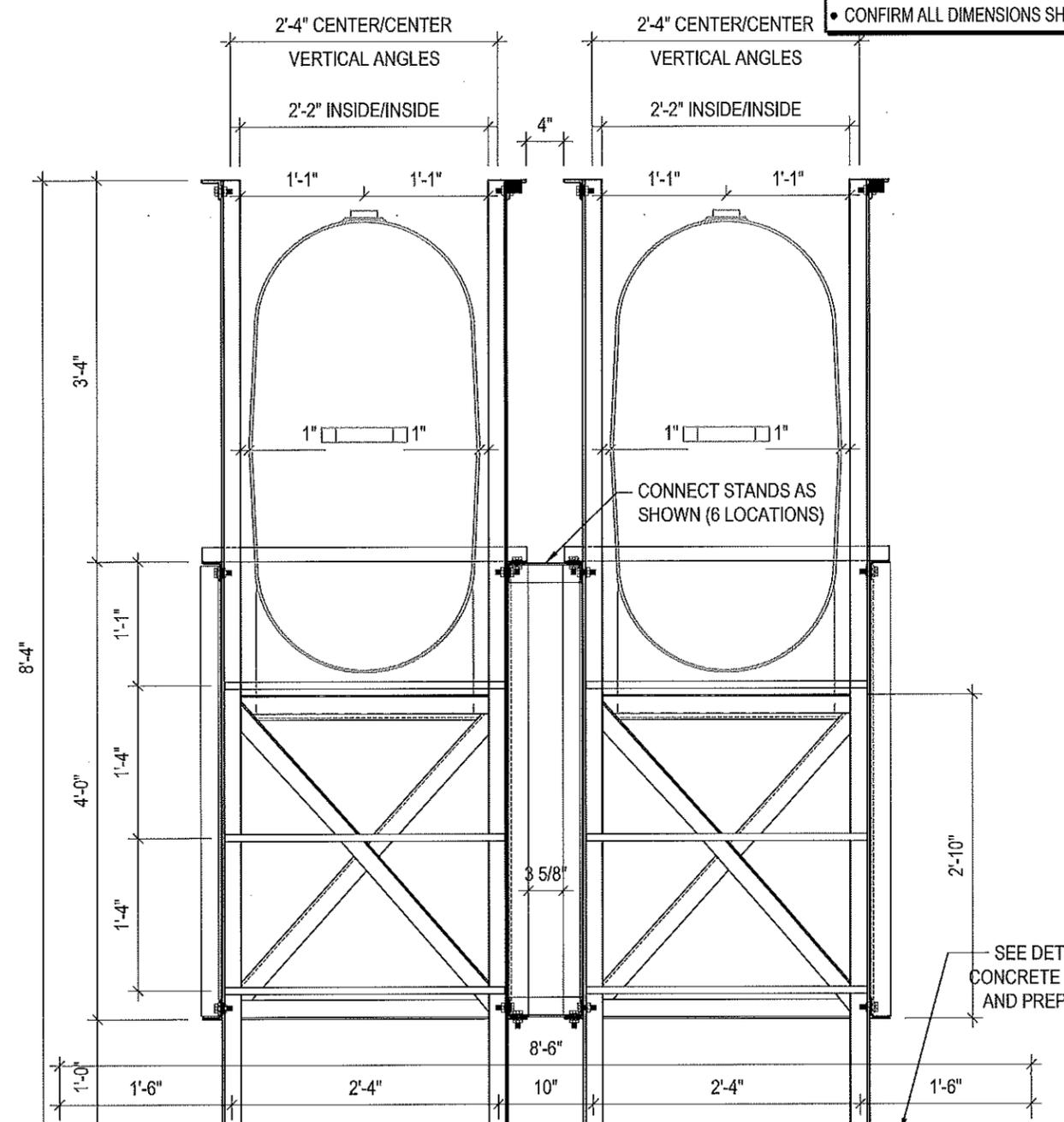
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S14

REVISION NUMBER:
00

NOTES:

- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
- ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
- ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1 LEFT ELEVATION - TANK #4
S15 SCALE: 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #4
S15 SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

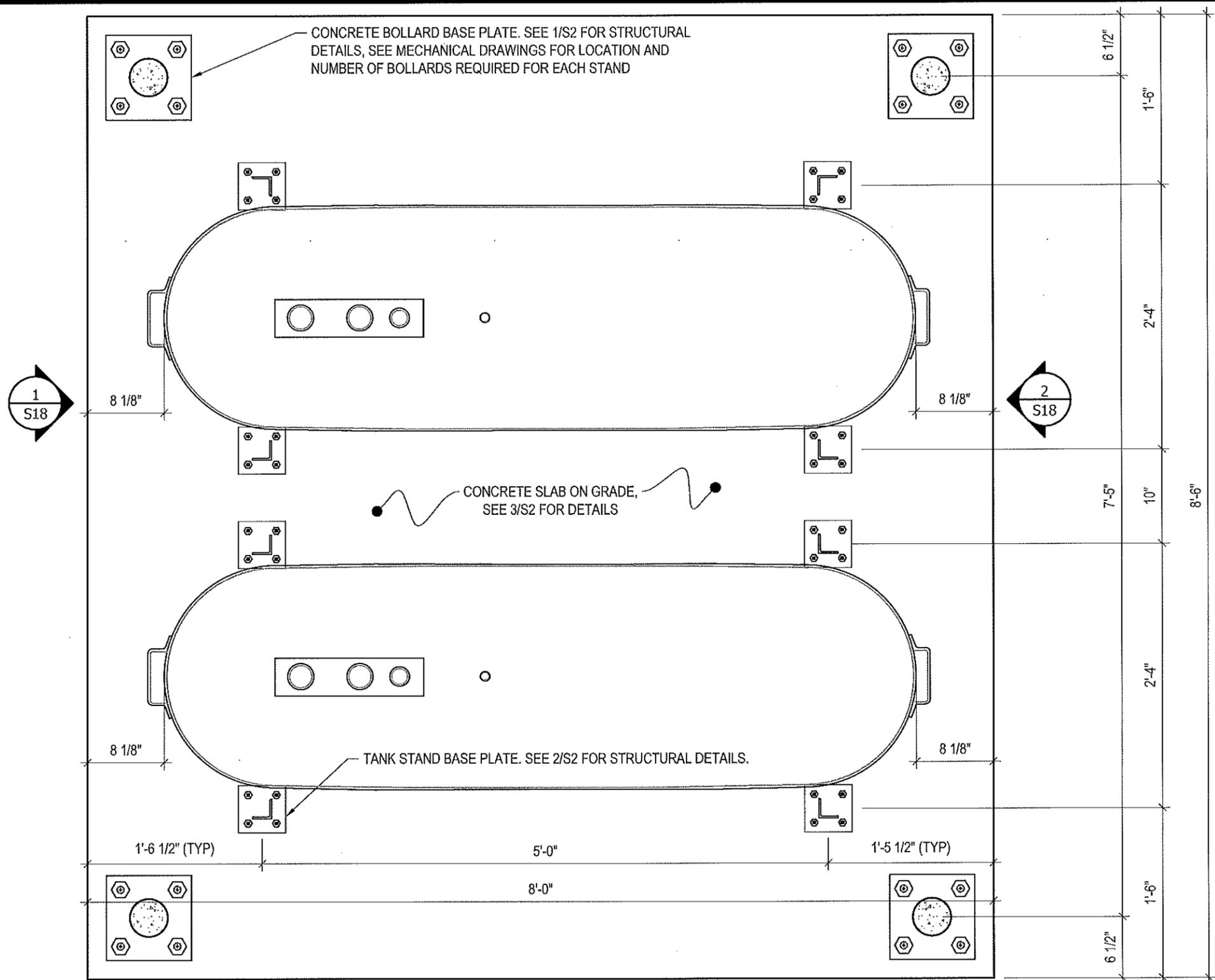
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S15

REVISION NUMBER:
00



1 PLAN VIEW - TANK #5
 S16 SCALE: 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #5 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39

Beach Rocke
 ENGINEERING LTD.
 Professional Engineering Services
 1029 St. Mary's Road, Weybridge, Manitoba R2M 3S9
 Telephone: (204) 255 7251 Fax: (204) 257 7239
 Website: www.beachrocke.ca

REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

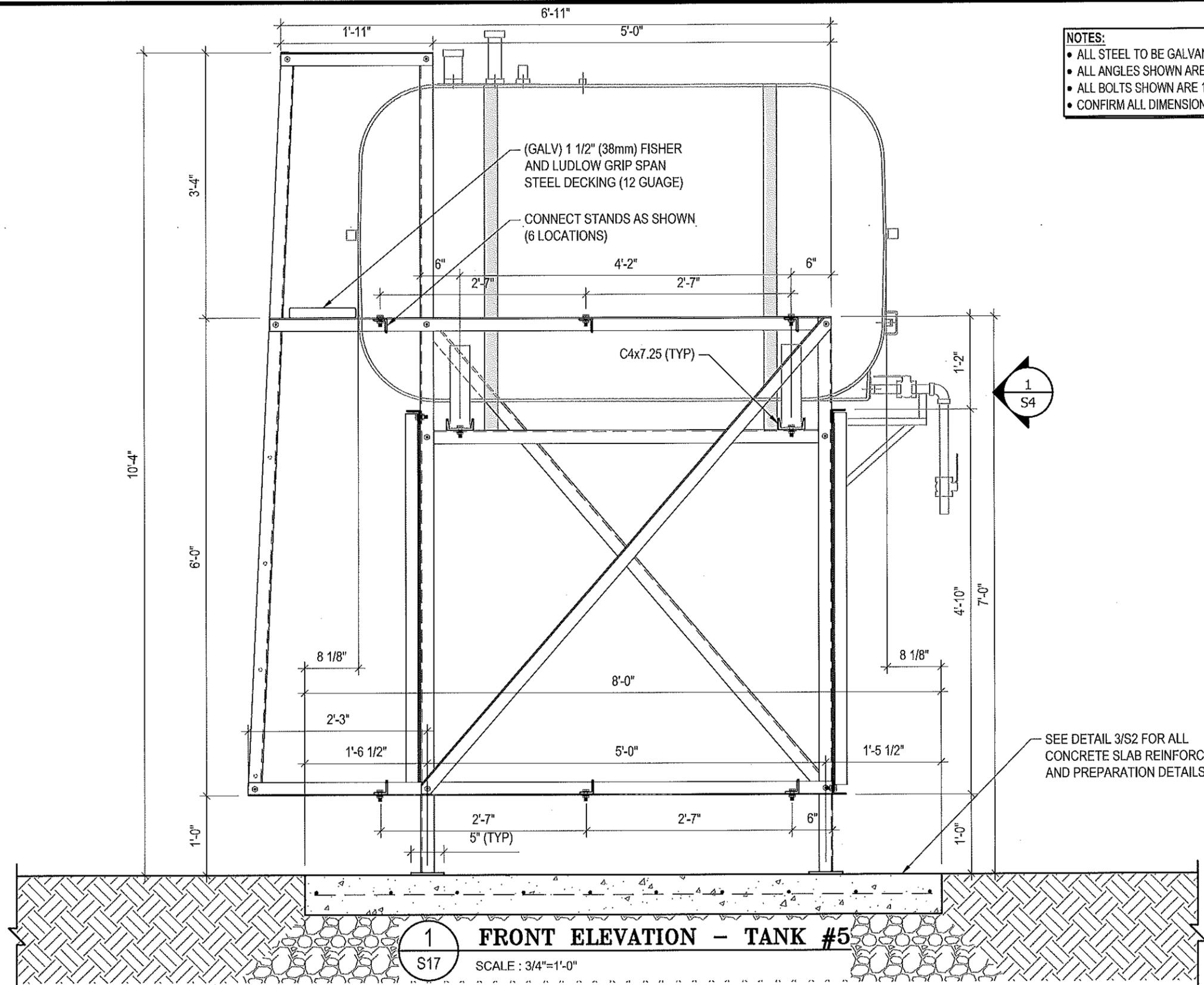
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S16

REVISION NUMBER:
00



- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

1
S17
FRONT ELEVATION - TANK #5
SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #5 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39

Beach Rocke
ENGINEERING LTD.
Professional Engineering Services
1093 St. Mary's Road, Winnipeg, Manitoba R2M 3S9
Telephone: (204) 254 7281 Fax: (204) 257 2239
Website: www.beachrocke.ca

REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

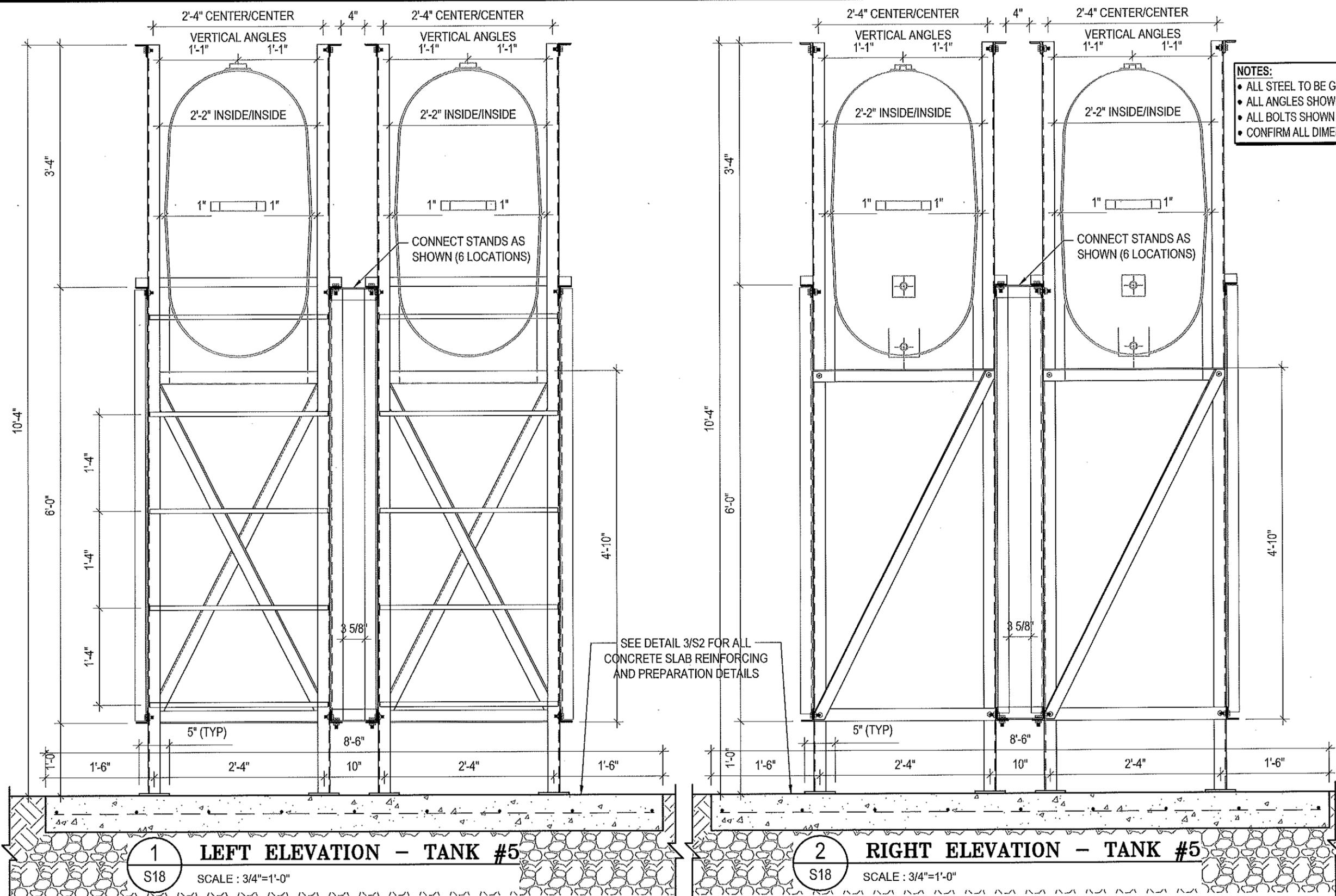
REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S17

REVISION NUMBER:
00



- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

1 LEFT ELEVATION - TANK #5
S18 SCALE: 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #5
S18 SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #5 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39

Beach Rocke
ENGINEERING LTD.
Professional Engineering Services
1053 St. Mary's Road, Worthington, Manitoba R2M 3S9
Telephone: (204) 253 7251 Fax: (204) 253 7239
Website: www.beachrocke.ca

REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S18
REVISION NUMBER:
00

FUEL TANK REPAIR AND REPLACEMENT PROJECT

QIKIQTARJUAQ, NUNAVUT

DRAWING LIST:

V089 - GARAGE

M1.0 DEMOLITION AND CONSTRUCTION PLAN
M2.0 TANK ELEVATIONS
M2.1 2" FUEL LINE SUPPORT DETAIL
M3.0 SCHEMATIC

V104 - RESIDENCE

M1.0 DEMOLITION AND CONSTRUCTION PLAN
M2.0 TANK ELEVATIONS
M2.1 2" FUEL LINE SUPPORT DETAIL
M3.0 SCHEMATIC

V088 - FACILITY BUILDING

M1.0 DEMOLITION PLAN - CRAWL SPACE
M2.0 CRAWL SPACE PLAN
M2.1 SECTION -A TANK ELEVATION
M2.2 SECTION -B TANK ELEVATION
M3.0 SCHEMATIC
M3.1 SCHEMATIC

STRUCTURAL DRAWING LIST

S1 STRUCTURAL PROJECT NOTES
S2 TYP TANK SLAB, BOLLARD AND BASE PLATE DETAILS AND ISOMETRIC VIEW OF METAL STAND
S3 CONNECTION #1 DETAILS
S4 CONNECTION #2 DETAILS
S5 TANK #1 - PLAN VIEW OF TANK ON SLAB
S6 TANK #1 - PLAN VIEW OF TANK ON SLAB
S7 TANK #2 - PLAN VIEW OF TANK ON LOW METAL STAND
S8 TANK #2 - ELEVATIONS OF LOW METAL STAND
S9 TANK #2 - ELEVATIONS OF LOW METAL STAND
S10 TANK #3 - PLAN VIEW OF TANK ON HIGH METAL STAND
S11 TANK #3 - ELEVATIONS OF HIGH METAL STAND
S12 TANK #3 - ELEVATIONS OF HIGH METAL STAND
S13 TANK #4 - PLAN VIEW OF TANK ON LOW DOUBLE METAL STAND
S14 TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
S15 TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
S16 TANK #5 - PLAN VIEW OF TANK ON HIGH DOUBLE METAL STAND
S17 TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND
S18 TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND



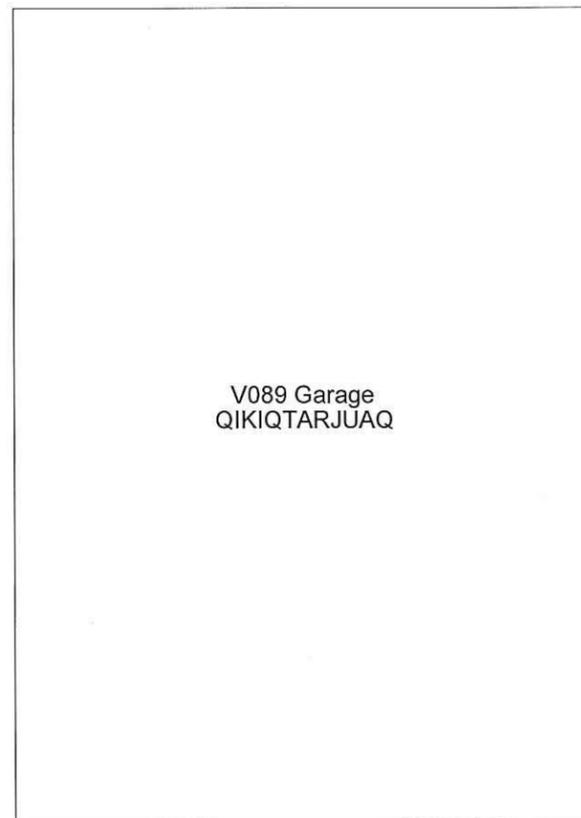
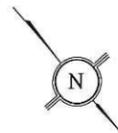
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RCMP "V" DIVISION OIL TANK REPLACEMENT- QIKIQTARJUAQ
SHEET TITLE:
TITLE PAGE
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 06 09	JLS

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M0.0
REVISION NUMBER:
00



V089 Garage
QIKIQTARJUAQ



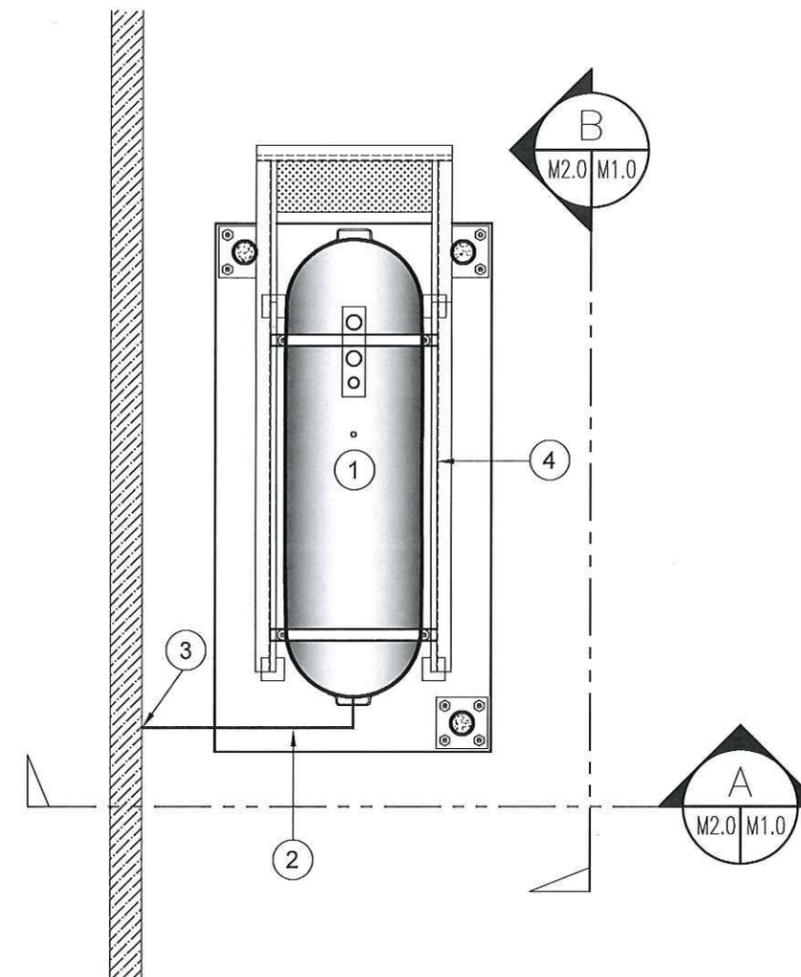
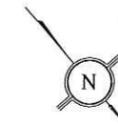
TANK

FRONT

01 DEMOLITION PLAN
M1.0 SCALE: NTS

DEMOLITION NOTES:

1. REMOVE ALL FUEL FROM THE TANK AND DISPOSE OF AS PER LOCAL REGULATIONS.
2. REMOVE EXISTING OIL TANK STAND AND PAD DISPOSE OF AS PER LOCAL REGULATIONS.



02 CONSTRUCTION PLAN
M1.0 SCALE: NTS

CONSTRUCTION NOTES: #

1. INSTALL NEW OIL TANK AND CONCRETE PAD. SEE SHEET M2.0
2. INSTALL NEW PIPING SUPPORT AS PER SHEET M2.1
3. CAULK ENTRY INTO BUILDING.
4. INSTALL TANK STAND TYPE #2.

INTERIOR REPAIR NOTES:

1. INSTALL NEW TIGER LOOP.
2. INSTALL NEW FUSIBLE TANK.



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V089 - GARAGE , QIKIQTARJUAQ
SHEET TITLE:
DEMOLITION AND CONSTRUCTION PLAN
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 03 08	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

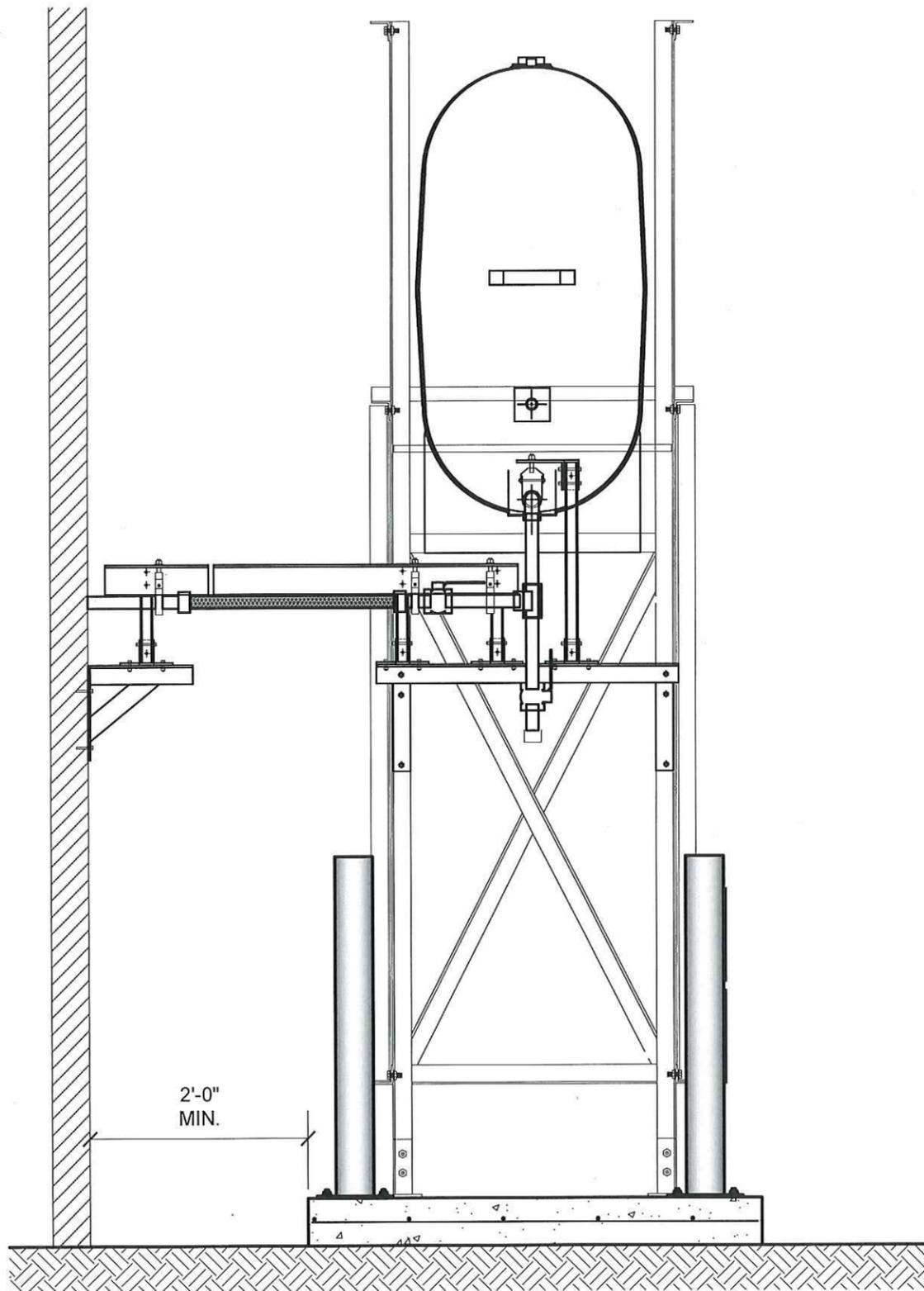
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SCALE:
AS NOTED
DATE (YY MM DD):
17 03 08

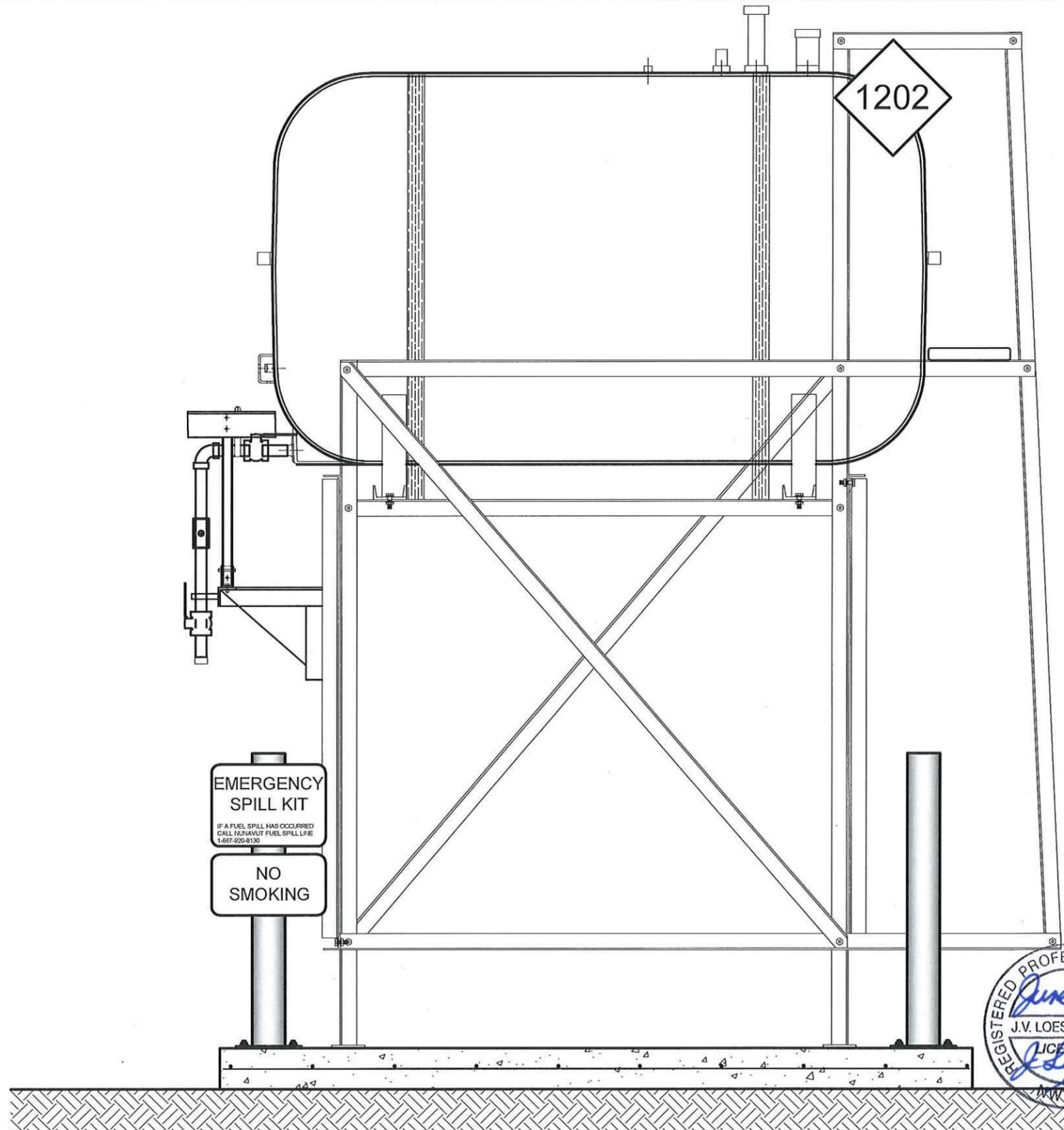
DRAWING NUMBER:

M1.0

REVISION NUMBER:
00



01 OIL TANK ELEVATION - A
M2.0 SCALE: 3/4"-1'-0"



02 OIL TANK ELEVATION - B
M2.0 SCALE: 3/4"-1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V089 - GARAGE , QIKIQTARJUAQ
SHEET TITLE:
TANK ELEVATIONS
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 03 08	JLS

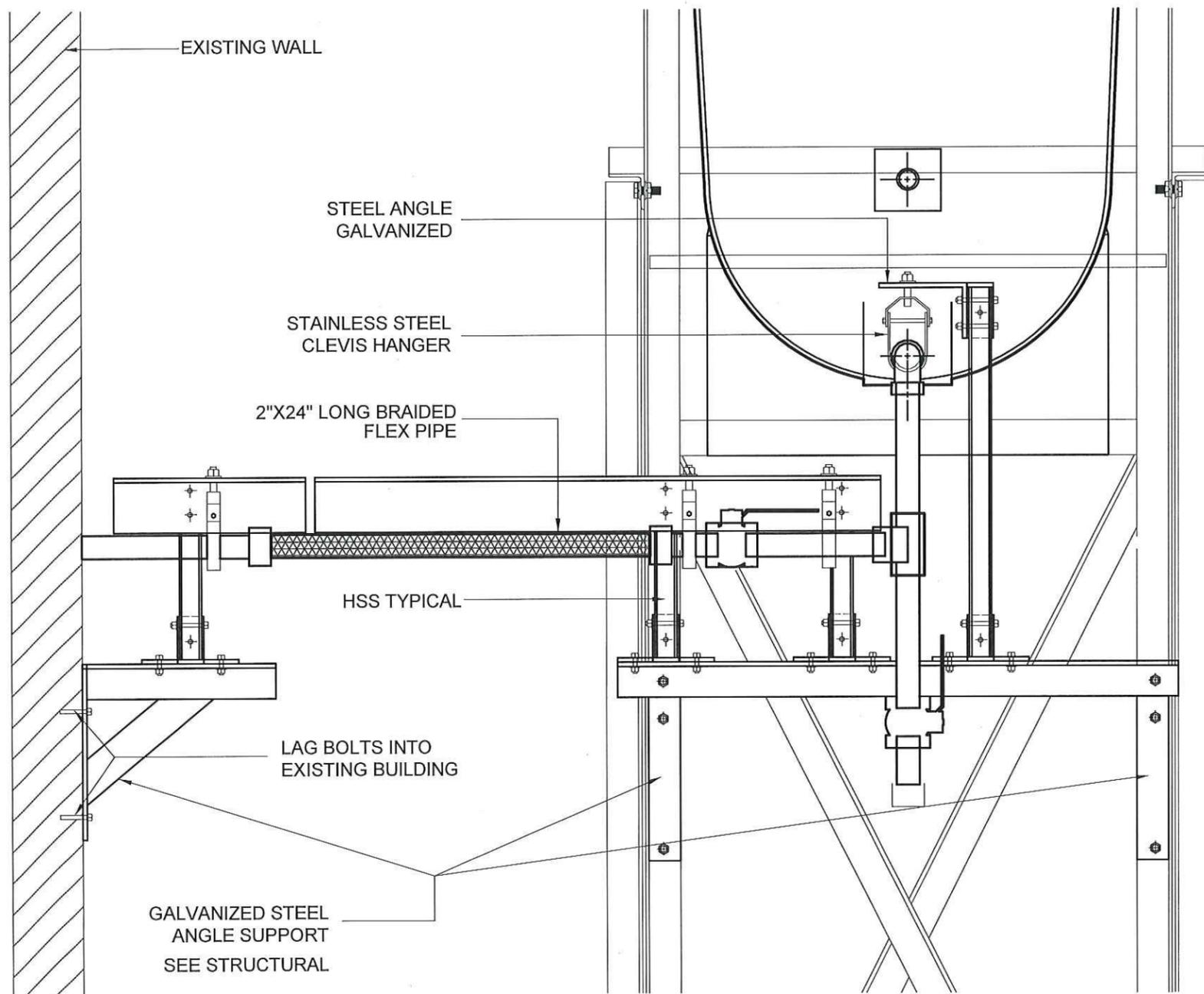
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SCALE:
AS NOTED
DATE (YY MM DD):
17 03 08

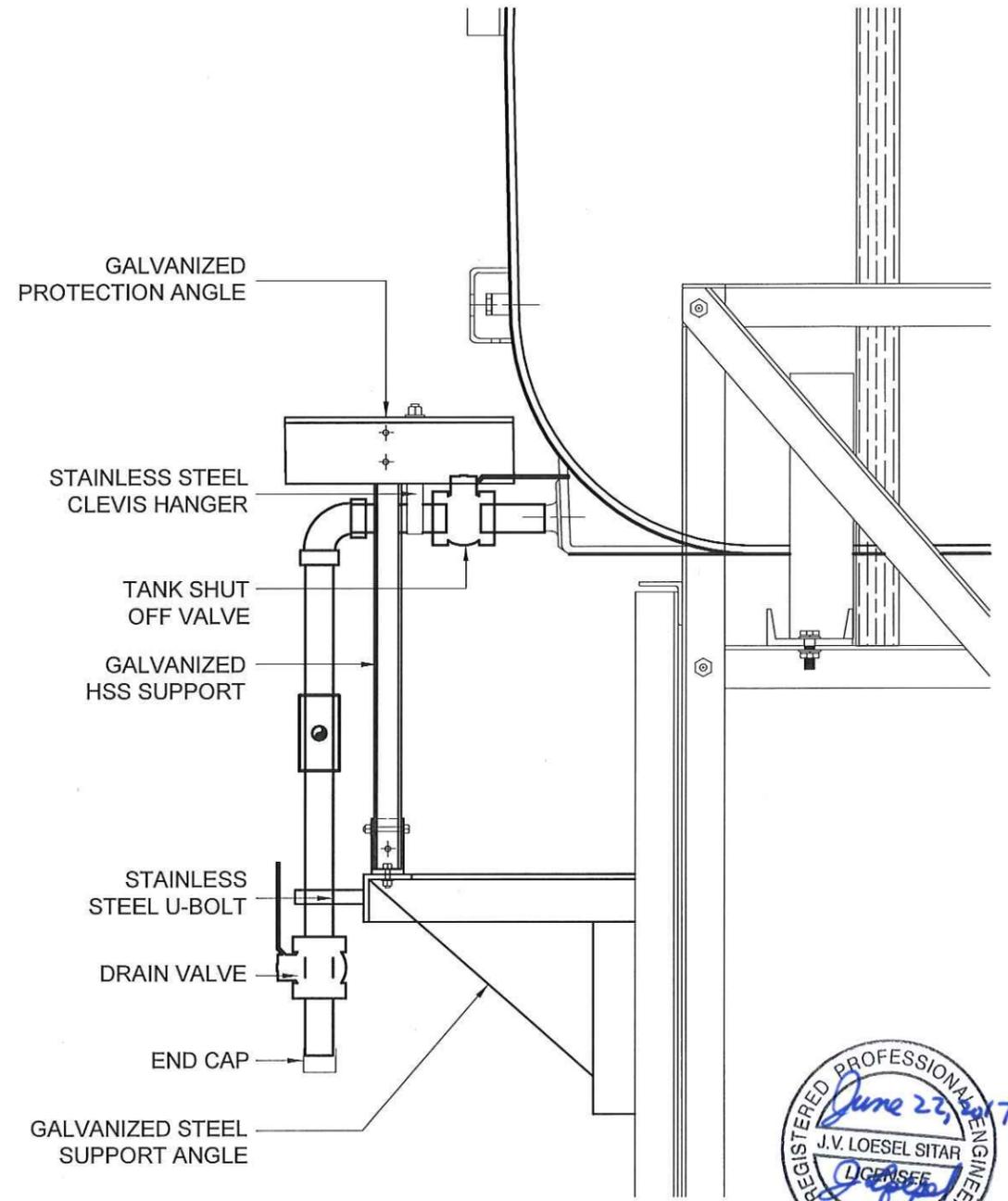
DRAWING NUMBER:

M2.0

REVISION NUMBER:
00



01 2" FUEL LINE SUPPORT AND PROTECTION DETAIL TANK STAND
M2.1 SCALE: 1 1/2"-1'-0"



02 2" FUEL LINE SUPPORT AND PROTECTION DETAIL HORIZONTAL SECTION
M2.1 SCALE: 1 1/2"-1'-0"



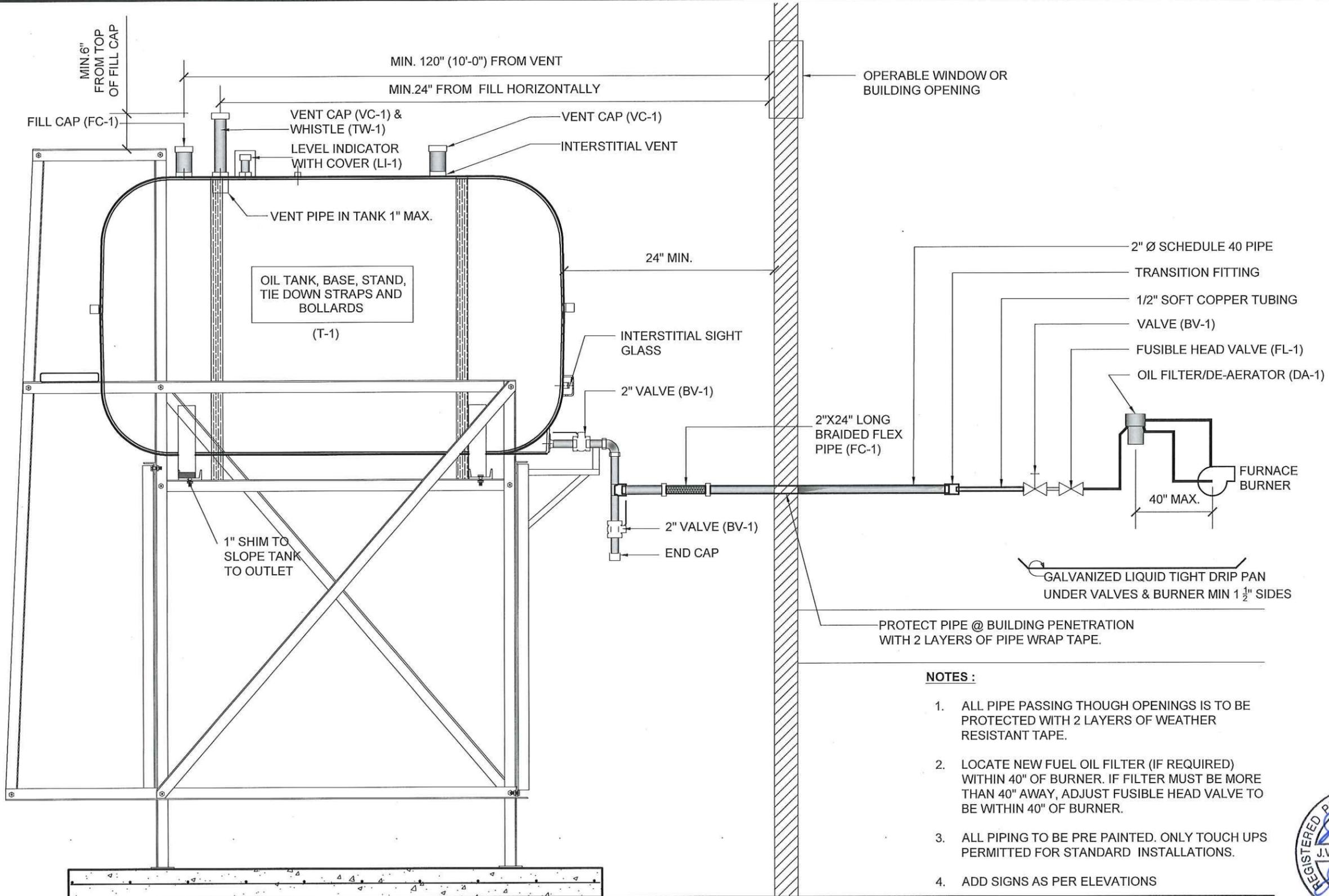
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V089 - GARAGE, QIKIQTARJUAQ
SHEET TITLE:
2" FUEL LINE SUPPORT DETAIL
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 03 08	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 03 08

DRAWING NUMBER:
M2.1
REVISION NUMBER:
00



- NOTES :**
1. ALL PIPE PASSING THOUGH OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
 2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
 3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
 4. ADD SIGNS AS PER ELEVATIONS



01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
M3.0 SCALE: NTS



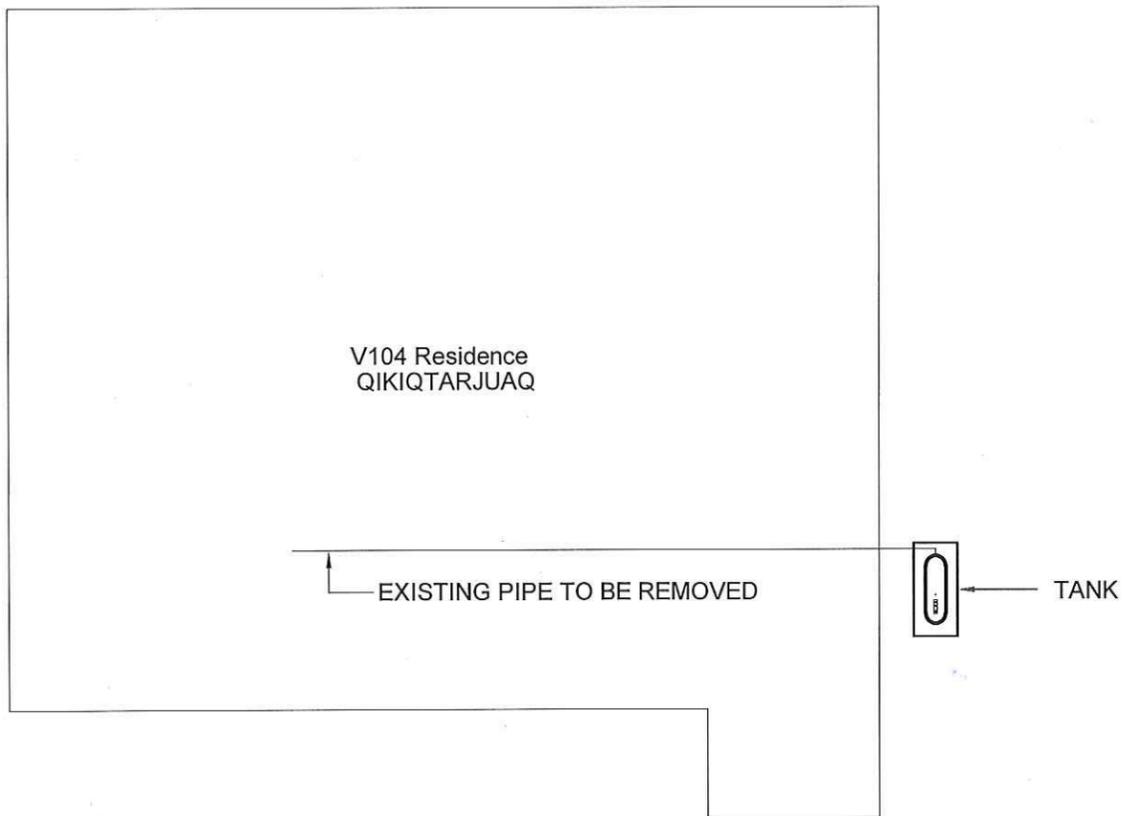
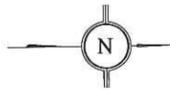
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V089 - GARAGE , QIKIQTARJUAQ
SHEET TITLE:
SCHEMATIC
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 06 09	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M3.0
REVISION NUMBER:
00



V104 Residence
QIKIQTARJUAQ

EXISTING PIPE TO BE REMOVED

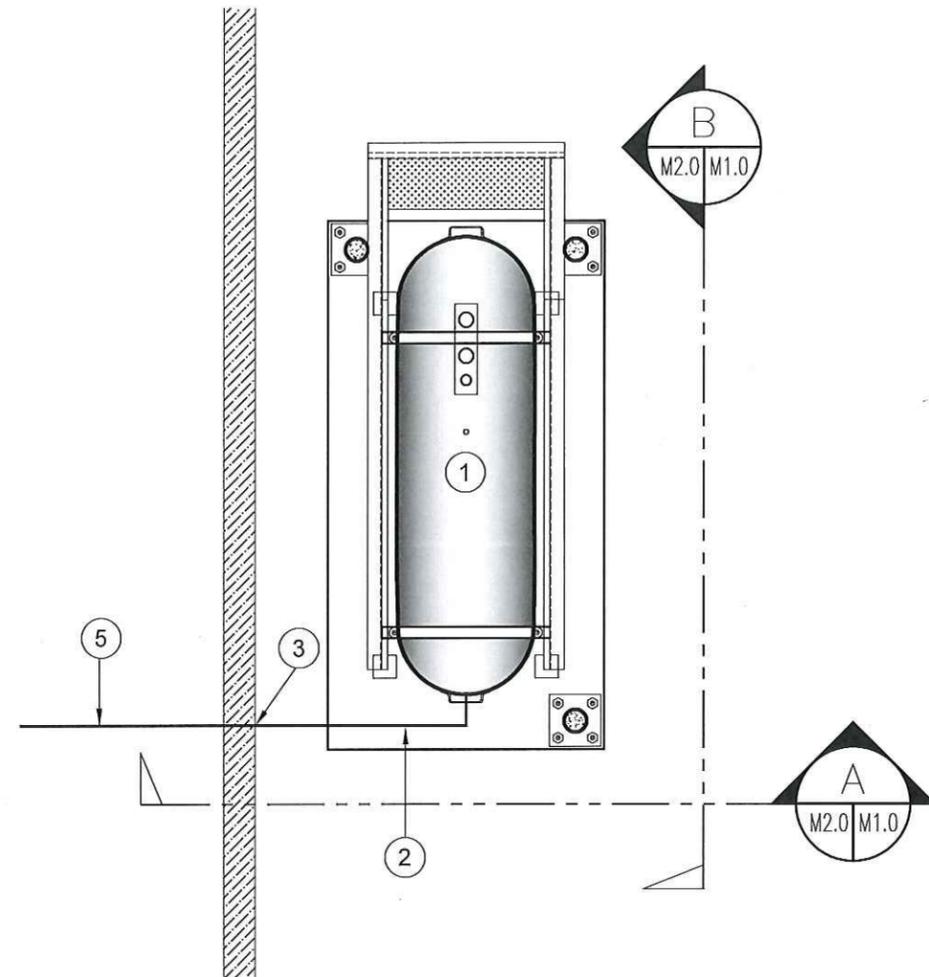
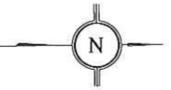
TANK

FRONT

01 DEMOLITION PLAN
M1.0 SCALE: NTS

DEMOLITION NOTES:

1. REMOVE ALL FUEL FROM THE TANK AND DISPOSE OF AS PER LOCAL REGULATIONS
2. REMOVE EXISTING OIL TANK STAND AND PAD DISPOSE OF AS PER LOCAL REGULATIONS



02 CONSTRUCTION PLAN
M1.0 SCALE: NTS

CONSTRUCTION NOTES: #

1. INSTALL NEW OIL TANK AND CONCRETE PAD. SEE SHEET M2.0
2. INSTALL NEW PIPING SUPPORT AS PER SHEET M2.1
3. CAULK ENTRY INTO BUILDING.
4. INSTALL OIL TANK STAND TYPE #2 SEE STRUCTURAL FOR DETAILS.
5. NEW 2"Ø PIPE IN CRAWL SPACE.

INTERIOR REPAIR NOTES:

1. INSTALL NEW FUSIBLE LINK.
2. INSTALL NEW TIGER LOOP.
3. INSTALL 30'-0" OF 2"Ø FUEL PIPE TO FURNACE.
4. INSTALL NEW PIPING TO MECHANICAL ROOM



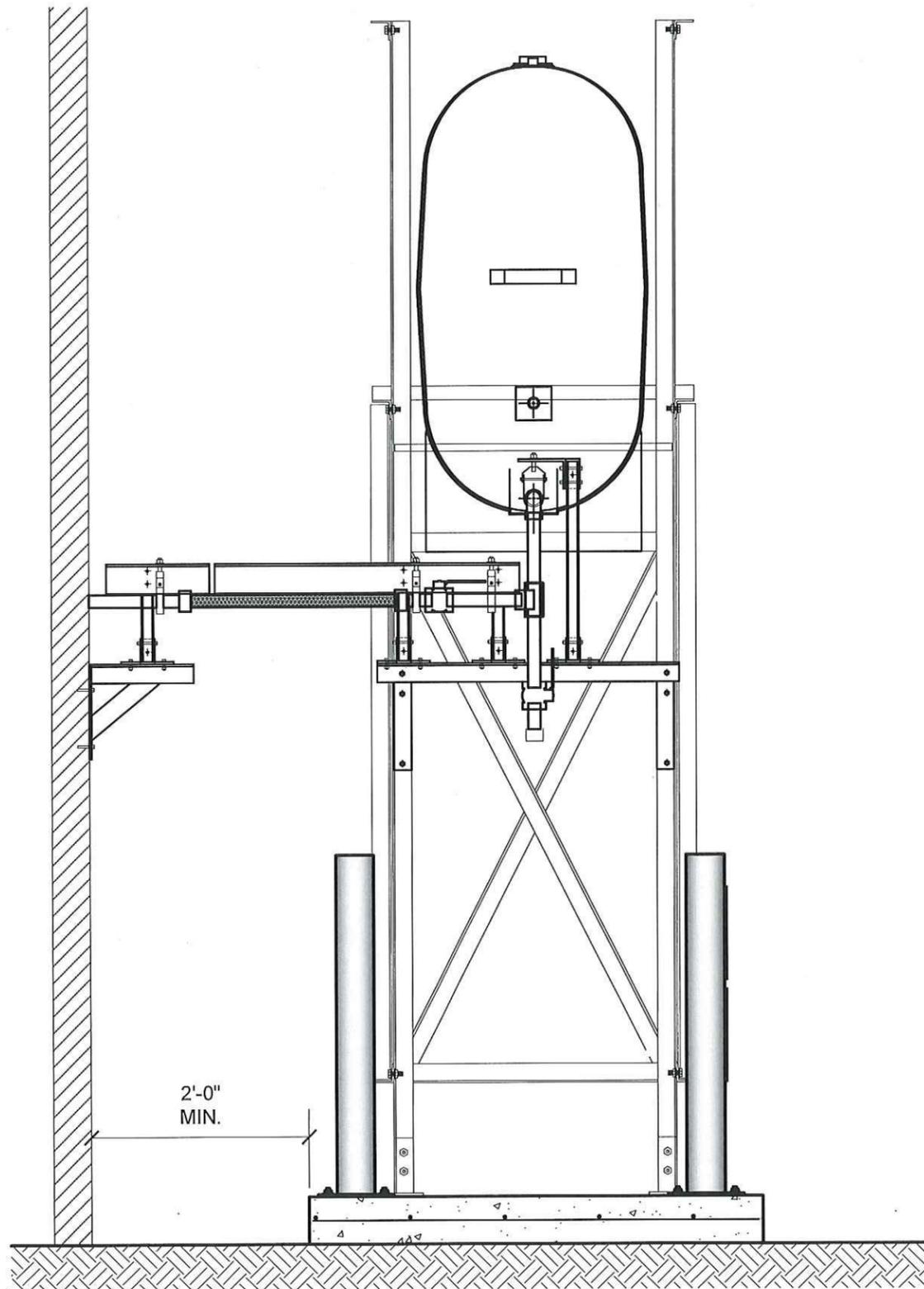
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V104 - RESIDENCE, QIKIQTARJUAQ
SHEET TITLE:
DEMOLITION AND CONSTRUCTION PLAN
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 06 09	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

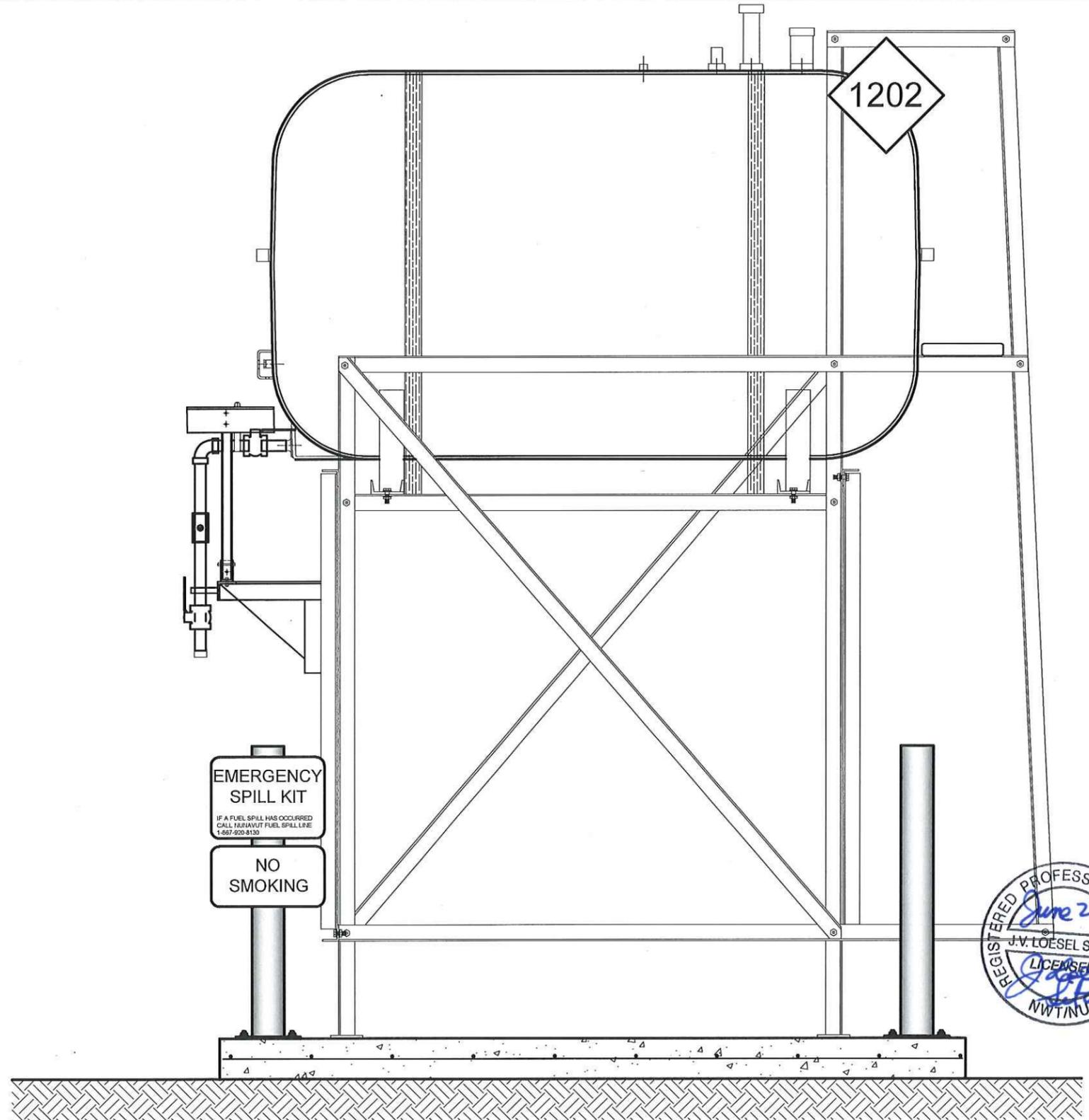
REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M1.0
REVISION NUMBER:
00



01 OIL TANK ELEVATION - A
M2.0 SCALE: 3/4"-1'-0"



02 OIL TANK ELEVATION - B
M2.0 SCALE: 3/4"-1'-0"



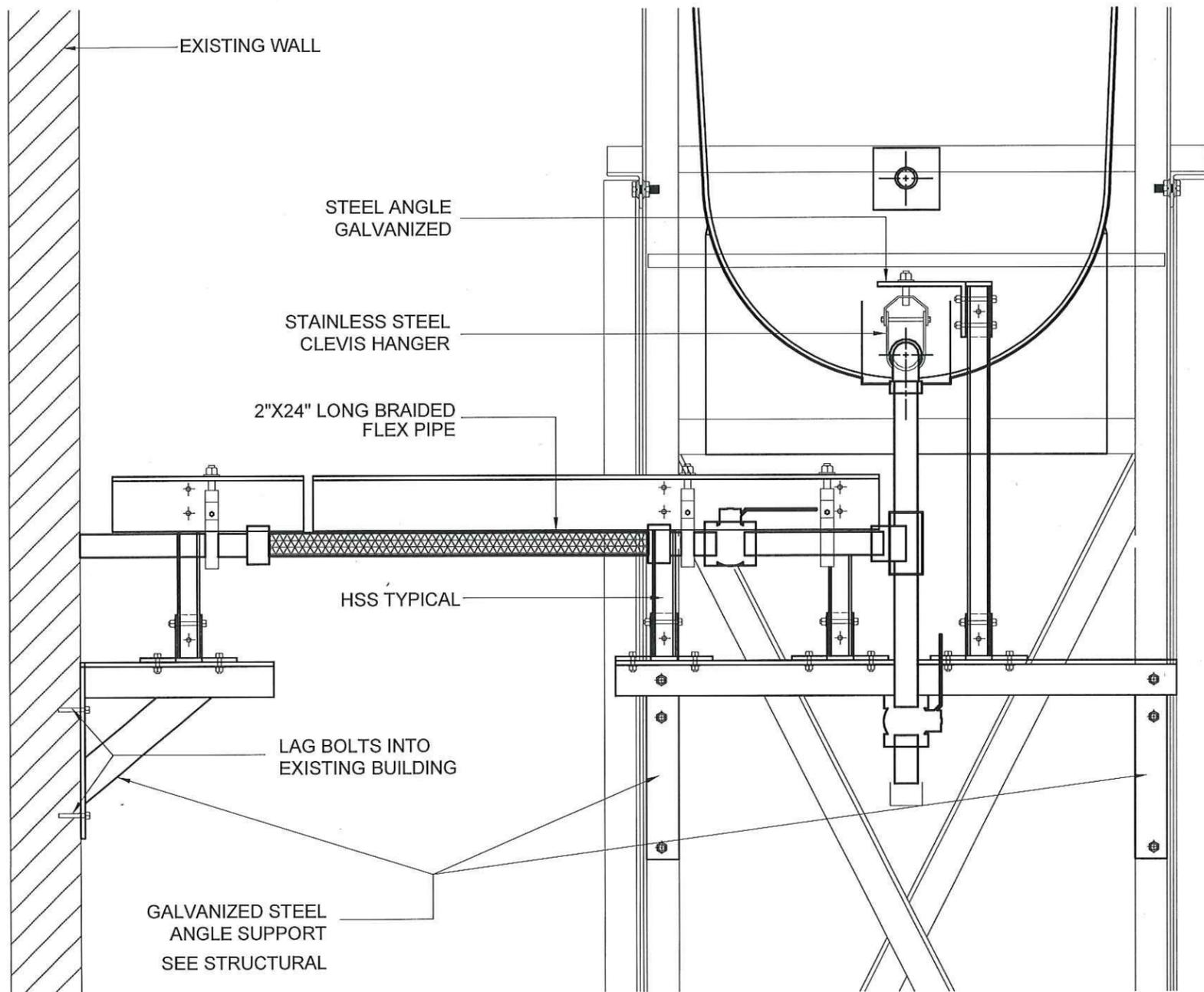
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V104 - RESIDENCE, QIKIQTARJUAQ
SHEET TITLE:
TANK ELEVATIONS
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 06 09	JLS

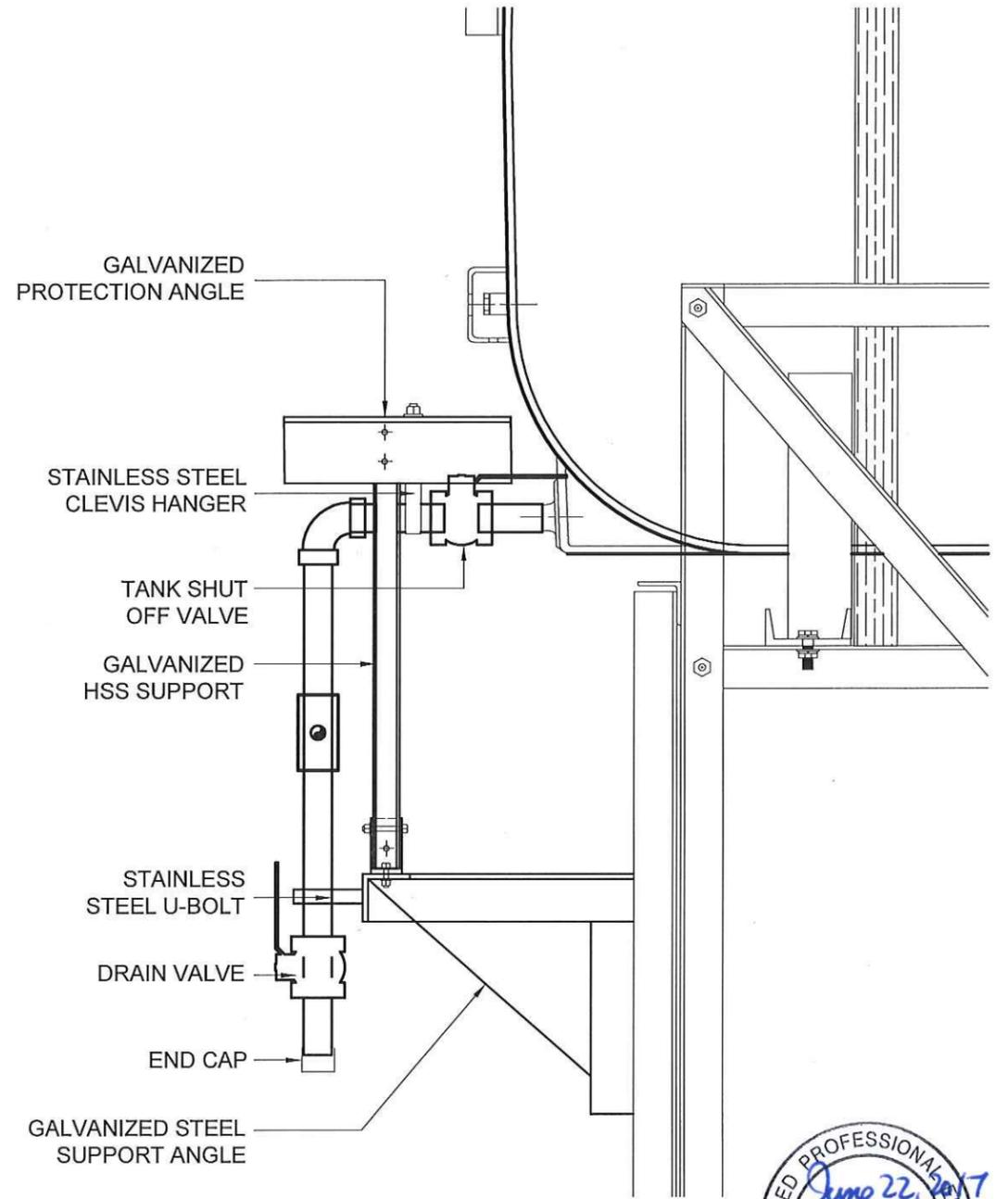
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

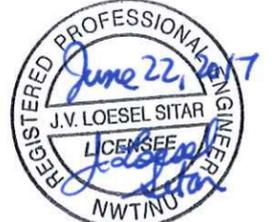
DRAWING NUMBER:
M2.0
REVISION NUMBER:
00



01 FRONT VIEW
M2.1 SCALE: 1 1/2"-1'-0"



02 SIDE VIEW
M2.1 SCALE: 1 1/2"-1'-0"



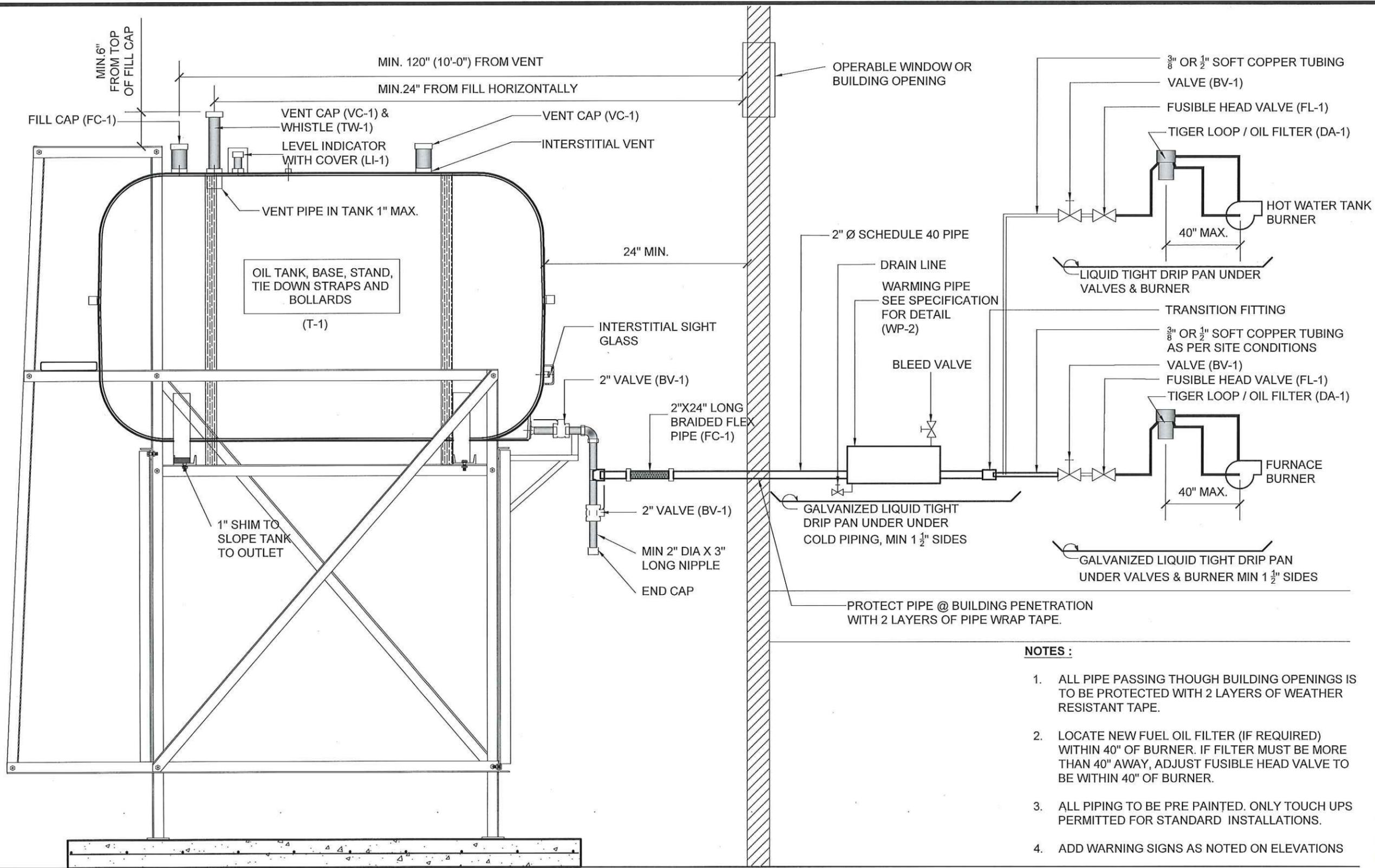
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RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V104 - RESIDENCE, QIKIQTARJUAQ
SHEET TITLE:
2" FUEL LINE SUPPORT DETAIL
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 06 09	JLS

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M2.1
REVISION NUMBER:
00



NOTES :

1. ALL PIPE PASSING THOUGH BUILDING OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
4. ADD WARNING SIGNS AS NOTED ON ELEVATIONS



01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
M3.0 SCALE: NTS



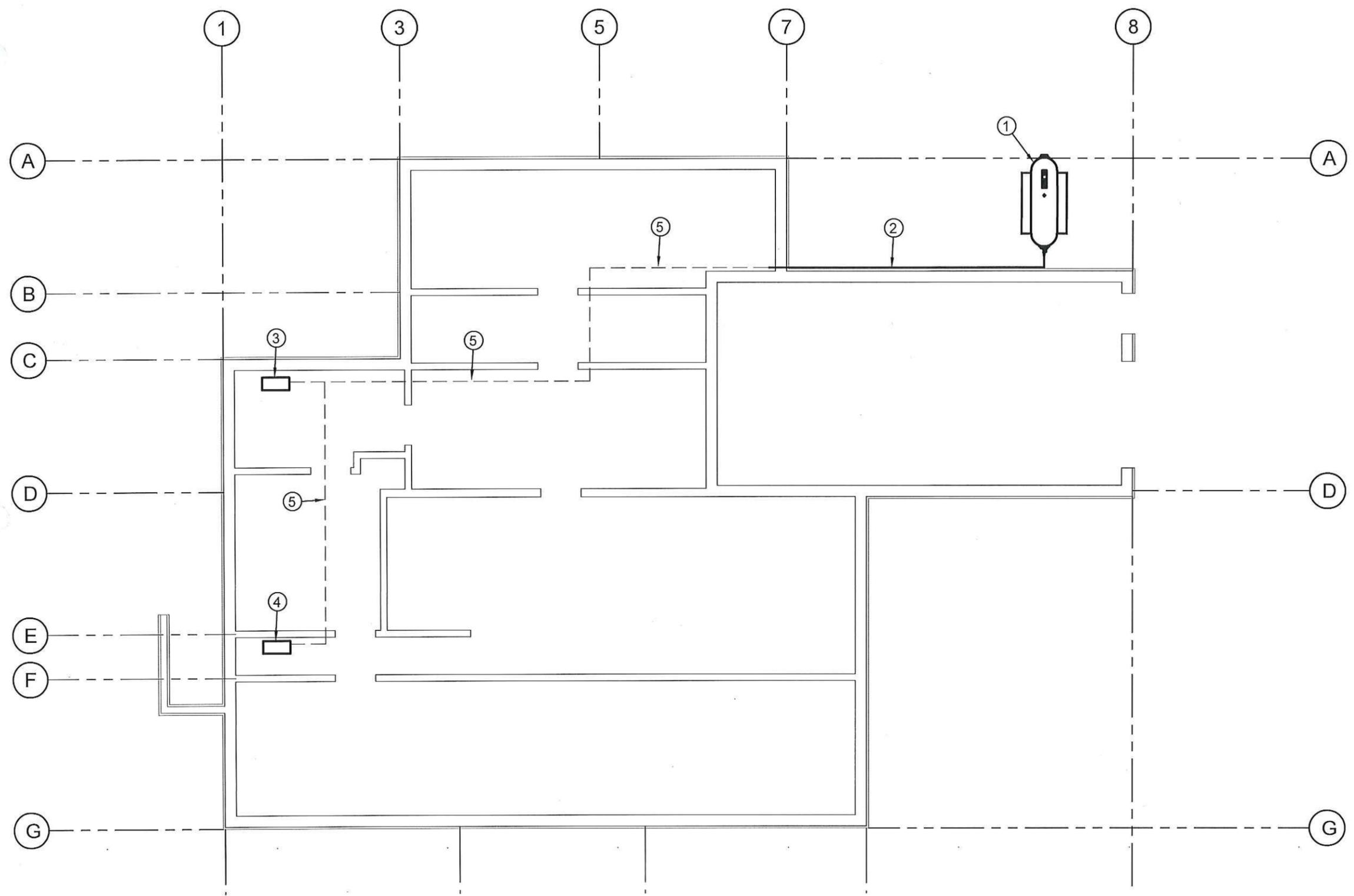
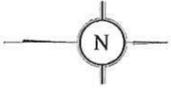
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V104 - RESIDENCE , QIKIQTARJUAQ
SHEET TITLE:
SCHEMATIC - TANK, PIPING & ACCESSORIES
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 06 09	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M3.0
REVISION NUMBER:
00



DRAWING NOTES: #

- 1. REMOVE EXISTING OIL TANK, STAND AND BASE
- 2. REMOVE EXISTING PIPING AND SUPPORTS
- 3. REMOVE EXISTING GENERATOR DAY TANK
- 4. REMOVE EXISTING BOILER DAY TANK
- 5. EXISTING PIPING TO REMAIN

DEMOLITION NOTES:

- 1. REMOVE ALL FUEL FROM THE EXISTING TANK AND DISPOSE OF AS PER LOCAL REGULATIONS
- 2. REMOVE EXISTING OIL TANK, STAND AND PAD AND DISPOSE OF AS PER LOCAL REGULATIONS.
- 3. EXISTING TANK THAT IS ON SITE IS TO BE DEMOLISHED. UNDER NO CIRCUMSTANCES IS IT TO BE SOLD OR USED ON A DIFFERENT BUILDING.

01 DEMOLITION PLAN
M1.0 SCALE: NTS



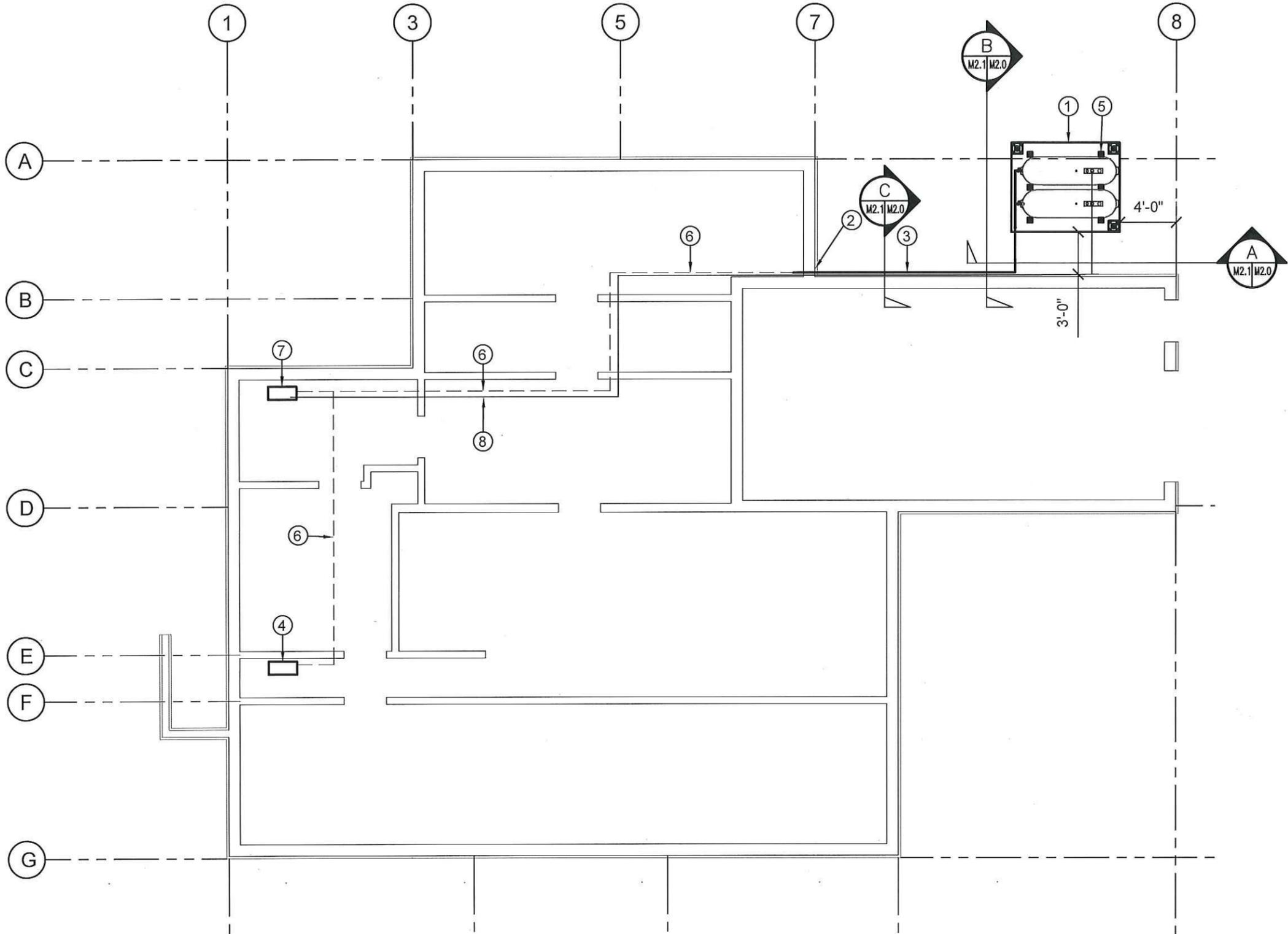
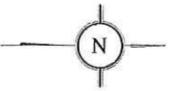
PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V088 - DETACHMENT, QIKIQTARJUAQ
SHEET TITLE:
DEMOLITION PLAN - CRAWL SPACE
PROJECT NUMBER:
16-028-14-30

00	ISSUED FOR TENDER	17 06 09	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M1.0
REVISION NUMBER:
00



DRAWING NOTES: #

1. INSTALL NEW DOUBLE OIL TANK, STAND AND CONCRETE PAD
2. CAULK ENTRY INTO BUILDING
3. INSTALL NEW PIPING SUPPORTS. SEE DETAIL C SHEET M2.1
4. INSTALL NEW WARMING PIPE - CONNECT TO EXISTING PIPING
5. TANK STAND TO BE #5 SEE STRUCTURAL FOR DETAILS
6. FUEL PIPING TO REMAIN
7. INSTALL NEW GENERATOR DAY TANK
8. NEW VENT PIPE TO OIL TANK 2"Ø

01 CONSTRUCTION PLAN
 M1.0 SCALE: NTS



PROJECT TITLE:
 RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
 V088 - DETACHMENT, QIKIQTARJUAQ
 SHEET TITLE:
 CONSTRUCTION PLAN CRAWL SPACE
 PROJECT NUMBER:
 16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 06 09	JLS

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 17 06 09

DRAWING NUMBER:
M1.1
 REVISION NUMBER:
 00

1202

GALVANIZED PROTECTION ANGLE

STAINLESS STEEL CLEVIS HANGER

TANK SHUT OFF VALVE

2X2 GALVANIZED HSS SUPPORT

STAINLESS STEEL U-BOLT

DRAIN VALVE

GALVANIZED STEEL SUPPORT ANGLE

EMERGENCY CD111 KIT

01 SECTION A
M2.1 SCALE: 1"=1'-0"



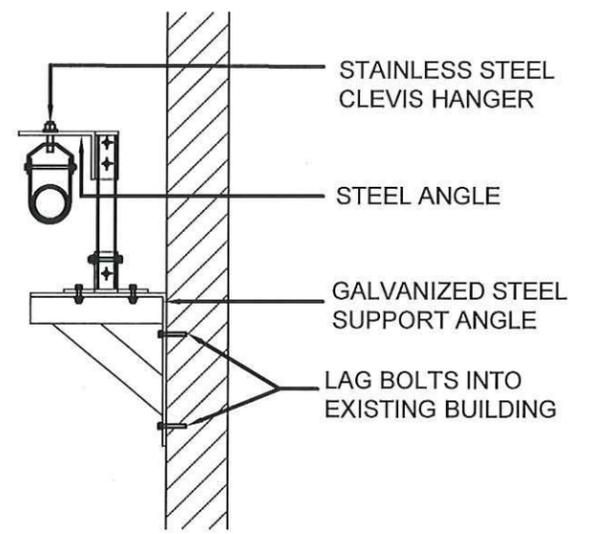
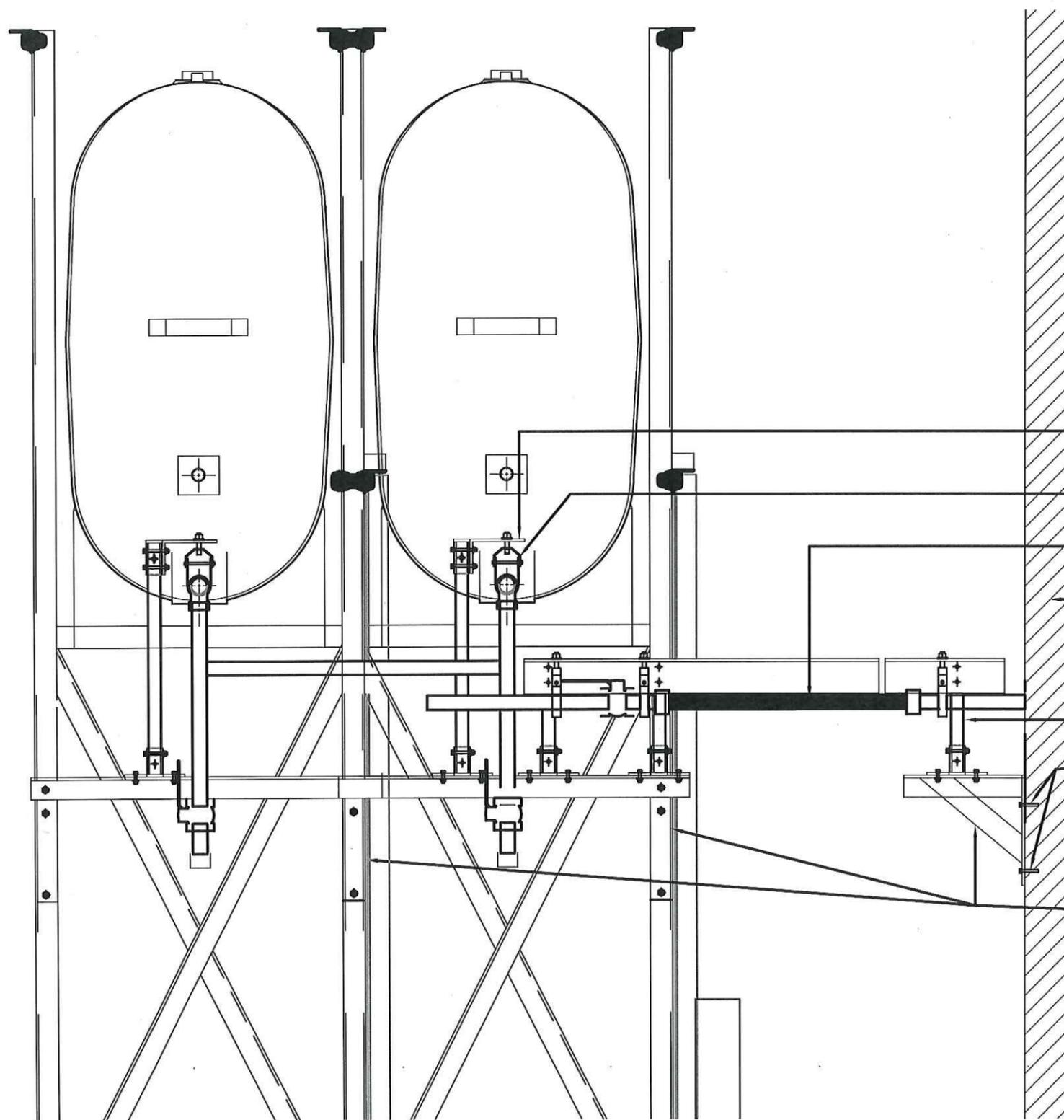
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RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V088 - DETACHMENT, QIKIQTARJUAQ
SHEET TITLE:
TANK ELEVATIONS
PROJECT NUMBER:
16-028-14-30

00 ISSUED FOR TENDER 17 06 09 JLS
REV. # REVISION DATE (YY MM DD) REV. BY

REV. # REVISION DATE (YY MM DD) REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M2.0
REVISION NUMBER:
00



02 SECTION C
M2.2 SCALE: 1"=1'-0"

- 5"X3" X 1/4" STEEL ANGLE GALVANIZED
- STAINLESS STEEL CLEVIS HANGER
- 2"X24" BRAIDED EXPANSION PIPE
- EXISTING WALL
- 2X2 HSS GALVANIZED TYPICAL
- LAG BOLTS INTO EXISTING BUILDING
- GALVANIZED STEEL ANGLE SUPPORT SEE STRUCTURAL

01 SECTION B
M2.1 SCALE: 1"=1'-0"



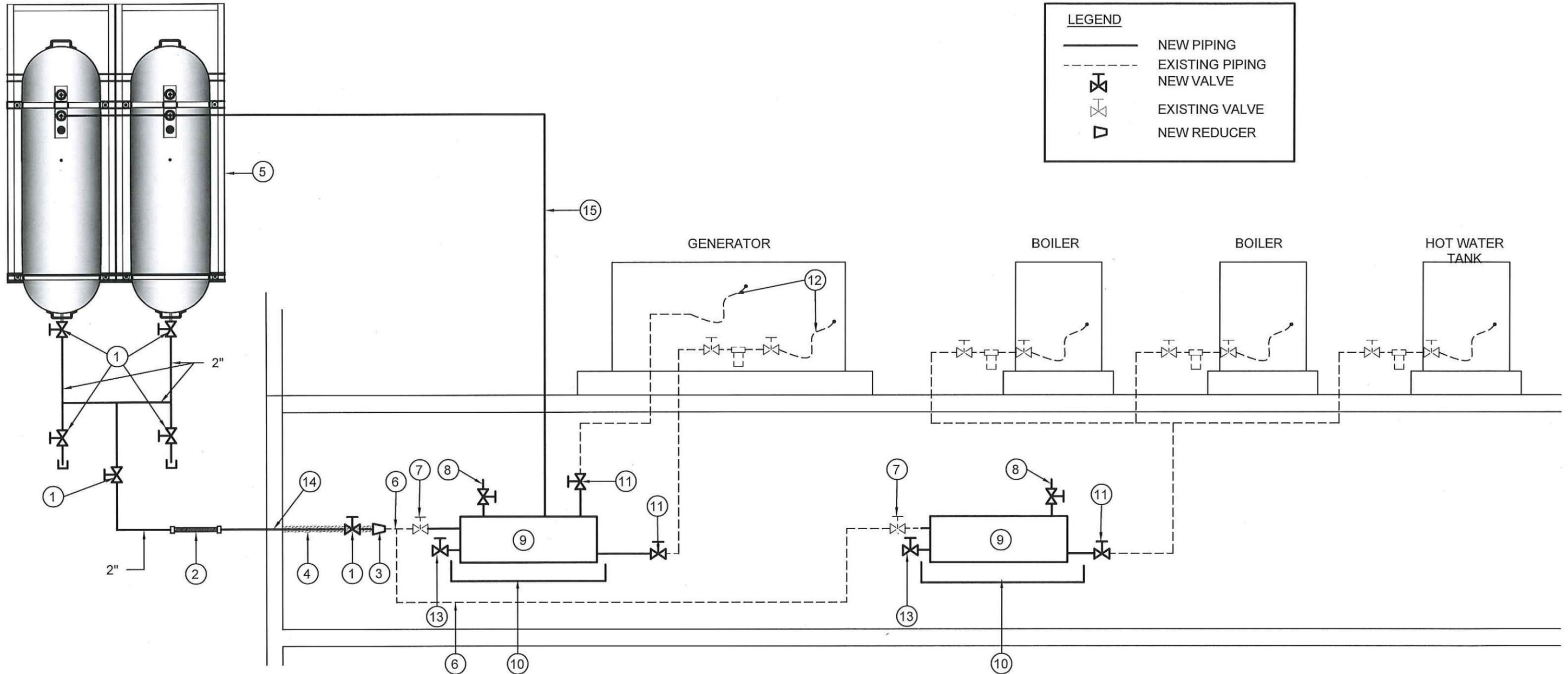
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RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V088 - DETACHMENT, QIKIQTARJUAQ
SHEET TITLE:
TANK ELEVATIONS
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
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17 06 09

DRAWING NUMBER:
M2.1
REVISION NUMBER:
00



LEGEND

- NEW PIPING
- - - EXISTING PIPING
- ⊕ NEW VALVE
- ⊗ EXISTING VALVE
- ▽ NEW REDUCER

DRAWING NOTES: (#)

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. NEW VALVE 2" (BV-1) 2. 2"X24" LONG BRAIDED FLEX PIPE (FC-1) 3. NEW REDUCER 2" TO 3/4" COPPER 4. INSULATE 2" PIPE FROM EXTERIOR WALL TO 3/4" COPPER REDUCER 5. 2 - FIBERGLASS OIL TANKS, STANDS AND CONCRETE BASE. SEE DETAILS SHEET M2.1 AND M2.2 6. COPPER FUEL LINE 3/4" | <ul style="list-style-type: none"> 7. EXISTING VALVE 8. BLEED VALVE 9. NEW DAY TANK DT-2 C/W SUPPORTS 10. NEW DRIP PAN. GALVANIZED STEEL, SIDES MIN 38MM HIGH, UNDER TANK AND VALVES 11. NEW VALVE (BV-1) 12. EXISTING FUEL LINE 13. DRAIN VALVE 14. APPLY 2 LAYERS OF PIPE TAPE FOR PIPE GOING THROUGH EXTERIOR WALL 15. VENT TO TANK SEE DETAIL M3.1 |
|--|---|



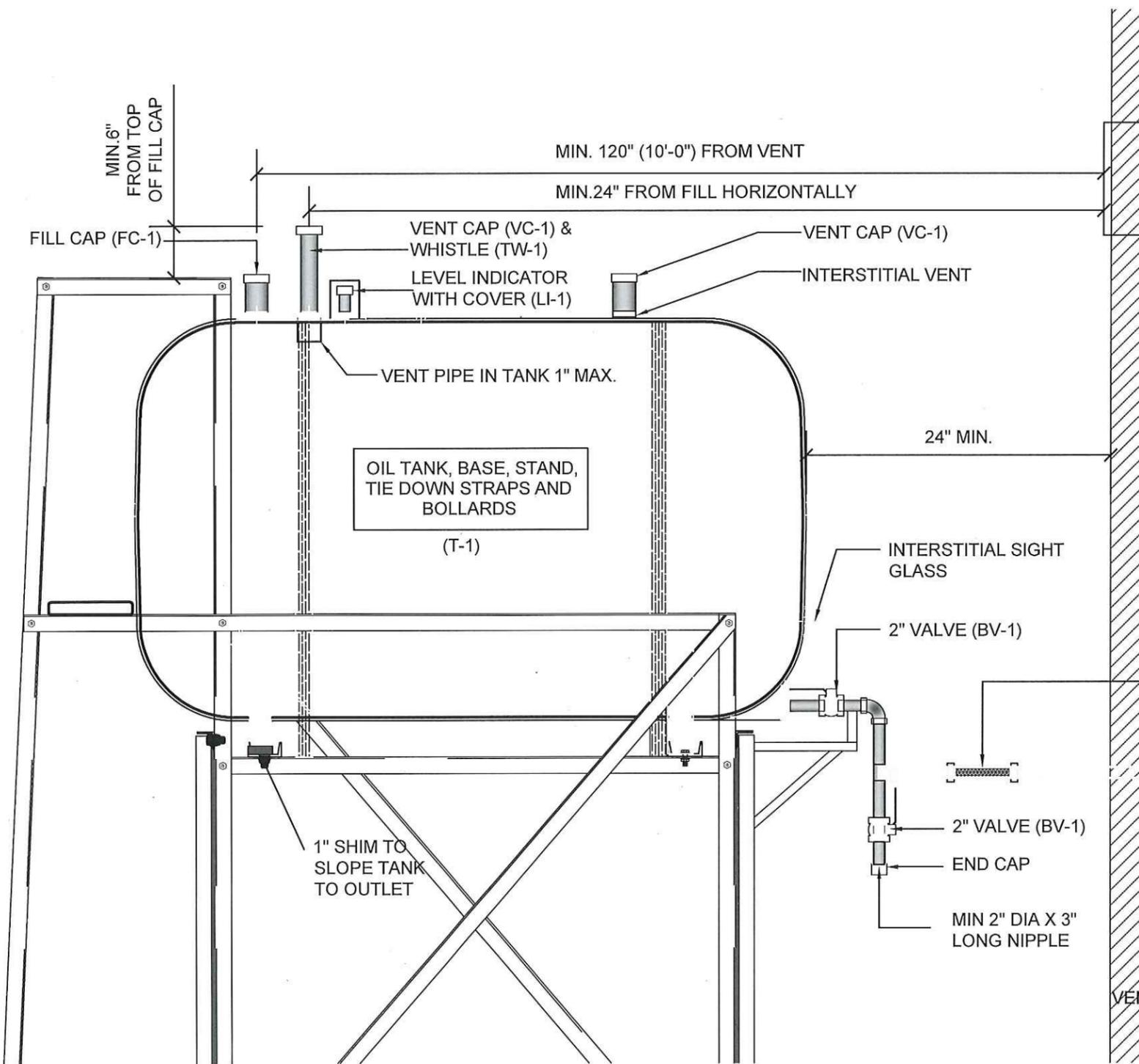
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RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V088 - DETACHMENT, QIKIQTARJUAQ
SHEET TITLE:
SCHEMATIC
PROJECT NUMBER:
16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
00	ISSUED FOR TENDER	17 06 09	JLS

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 09

DRAWING NUMBER:
M3.0
REVISION NUMBER:
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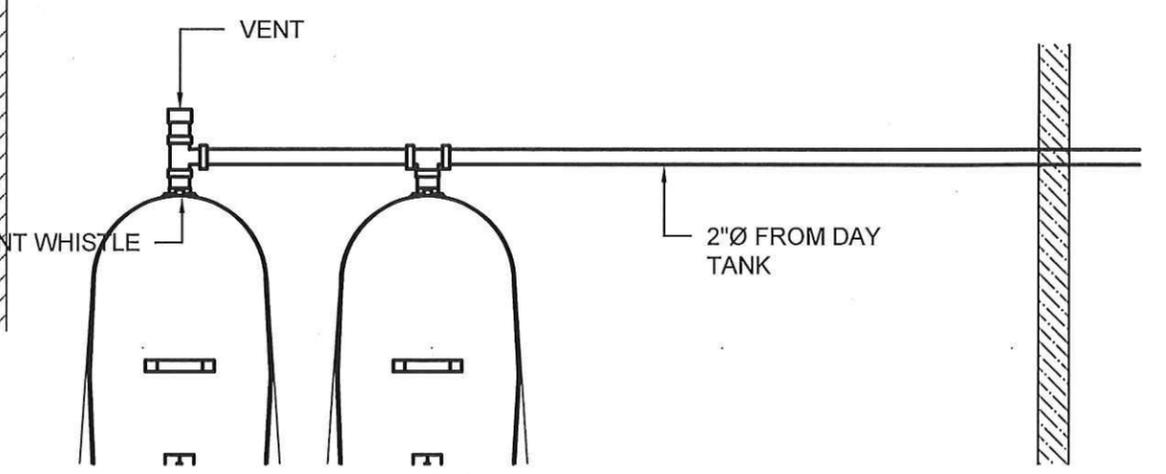


NOTES :

1. ALL PIPE PASSING THOUGH OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
4. ADD SIGNS AS PER ELEVATIONS
5. DOUBLE TANK CONFIGURATION: ONLY ONE TANK IS TO HAVE A FILL CAP INSTALLED. ADJACENT TANK IS TO HAVE FILL OPENING PLUGGED.
6. DOUBLE TANK CONFIGURATION: VENT WHISTLE TO BE INSTALLED ON TANK WITH FILL CAP. ADJACENT TANK TO HAVE VENT ONLY



2"X24" LONG BRAIDED FLEX PIPE (FC-1)



01 TYPICAL TANK SCHEMATIC
M3.1 SCALE: NTS

02 TANK VENT DETAIL
M3.1 SCALE: 1/2"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - QIKIQTARJUAQ
V088 - DETACHMENT, QIKIQTARJUAQ
SHEET TITLE:
SCHEMATIC
PROJECT NUMBER:
16-028-14-30

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SCALE:
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DRAWING NUMBER:
M3.1
REVISION NUMBER:
00

GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, ROUGH OPENING DIMENSIONS FOR WINDOWS, DOORS, ETC.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN FLOORS, ROOF, WALLS, ETC.
- DO NOT CUT OR DRILL OPENINGS IN ANY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- BEACH ROCKE ENGINEERING LTD. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF REQUIRED SITE INSPECTIONS. (TEL: 1-204-255-7251, FAX: 1-204-257-7239).
- STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL "BUILDING PROTECTION ACT", TO PROVIDE ALL NECESSARY SAFETY EQUIPMENT AS REQUIRED THEREIN AND TO NOTIFY LOCAL AUTHORITIES AS REQUIRED BY LAW.
- THE CONTRACTOR SHALL CONFORM TO THE COLD WEATHER REQUIREMENTS OF THE CSA STANDARD A23.1/A23.2 AND THE NATIONAL BUILDING CODE.
- IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO LOCATE ALL SITE SERVICES PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL DESIGN ALL SHORING, FORM WORK, AND BRACING TO ENSURE PROPER CONSTRUCTION AND ERECTION.
- THE CONTRACTOR SHALL VISIT THE SITE, AND NOTE ALL CHARACTERISTICS AND IRREGULARITIES AFFECTING THE WORK OF THIS SECTION.
- SHOP DRAWINGS NOT STAMPED, SIGNED, AND DATED BY THE CONTRACTOR WILL BE RETURNED AND SHALL BE CONSIDERED REJECTED. SHOP DRAWINGS FOR WORK DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER IN THE PROJECTS PROVINCE.
- THE CONTRACTOR SHALL SUBMIT AT LEAST 3 COPIES OF STAMPED SHOP DRAWINGS FOR ALL PRE-FABRICATED STRUCTURAL ASSEMBLIES, INCLUDING REINFORCING STEEL TO BEACH ROCKE ENGINEERING LTD. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS, EXCEPT REINFORCING STEEL, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE PROJECTS PROVINCE.

SLAB-ON-GRADE NOTES:

- ALL SLAB-ON-GRADE WILL EXPERIENCE MOVEMENT AND CRACKING DUE TO HEAVING AND SOIL EXPANSION RESULTING FROM THE NATURE OF THE CLAY SOIL, PREVIOUS AND PRESENT LEVEL OF VEGETATION AT THE SITE, SOIL MOISTURE LEVEL AND CONSTRUCTION PRACTICES. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THIS CRACKING AND /OR MOVEMENT.

CONCRETE NOTES:

- CONCRETE SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH THE CSA STANDARDS A23.1-09/A23.2-09.
- THE CONTRACTOR SHALL PROVIDE ONE SET OF STANDARD CONCRETE CYLINDER TEST RESULTS CONDUCTED BY AN INDEPENDENT TESTING FIRM FOR EACH DAYS POUR AND AN ADDITIONAL SET OF CYLINDERS FOR EVERY 50 CUBIC METERS POURED AT NO EXTRA COST TO THE OWNER. TEST RESULTS ARE TO BE FORWARDED TO BEACH ROCKE ENGINEERING LTD. IMMEDIATELY UPON RECEIPT FROM THE TESTING FIRM.
- PROVIDE A MINIMUM 150mm (6") VOID UNDER ALL BEAMS, WALLS AND STRUCTURAL SLABS. VOID TO BE SHEARMAT OR APPROVED CARDBOARD VOIDFORM.
- VIBRATE ALL CONCRETE TO ENSURE COMPLETE CONSOLIDATION.
- THE LOCATIONS OF CONSTRUCTION JOINTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY BEACH ROCKE ENGINEERING LTD.
- WHEN THE OUTSIDE TEMPERATURE FALLS BELOW 5 DEGREES CENTIGRADE, THE CONTRACTOR SHALL CONFORM TO CSA STANDARD A23.1-09/A23.2-09 AND THE NATIONAL BUILDING CODE FOR COLD WEATHER CONCRETING PROCEDURES, AND SHALL RECEIVE WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD. PRIOR TO COMMENCING CONCRETE CONSTRUCTION.
- PROVIDE $\frac{3}{8}$ " x 1" SAW CUTS AT 20' O.C. BOTH WAYS IN FLOOR SLABS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:

NAME	CONC. TYPE	STRENGTH	MAX. AGG.	SLUMP(MAX) AIR	EXPOSURE CLASS
SLABS	TYPE 10	32MPA @ 28 DAYS	20mm	120mm 5-8%	C-2

REINFORCING STEEL NOTES:

- REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BARS MANUFACTURED AND DETAILED IN ACCORDANCE WITH CAN/CSA-G30.18-M92, WITH MINIMUM YIELD STRENGTH AS FOLLOWS: 10M BARS-300MPA, 15M BARS & LARGER - 400MPA.
- REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST, MUD, OIL OR OTHER COATINGS WHICH MAY REDUCE THE BOND OR HARM THE CONCRETE.
- REINFORCING STEEL SHALL BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, TIES, ETC. SUPPLIED BY THE REINFORCING STEEL PROVIDER. APPROPRIATE SUPPORT SHALL BE PROVIDED UNDER ALL SUPPORT ACCESSORIES TO ENSURE THAT THE REINFORCING STEEL IS ACCURATELY POSITIONED.
- LAP TOP BARS AT MID-SPAN AND BOTTOM BARS OVER SUPPORTS.
- BEND ALL HORIZONTAL STEEL 18" AROUND CORNERS, OR USE EXTRA 36"x36" CORNER BARS TO MATCH HORIZONTALS.
- PROVIDE 2-15M AROUND ALL SLAB, WALL, & BEAM OPENINGS, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
- CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS:
 - CONCRETE CAST IN DIRECT CONTACT WITH SOIL - 75mm (3")
 - FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER - 50mm (2")
 - FORMED CONCRETE IN CONTACT WITH SOIL 20M OR LARGER - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (BEAMS AND COLUMNS) - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (SLABS AND WALLS) - 20mm (3/4")
- MISCELLANEOUS CONCRETE HOUSEKEEPING PADS AND CURBS SHALL BE REINFORCED WITH A MINIMUM 10M AT 18" O.C. EACH WAY UNLESS NOTED. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CAN/CSA-S16-09 BY FULLY CERTIFIED MEMBERS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE CAN/CSA G40.21-350W CLASS C TO SIZES AND SHAPES INDICATED ON THE DRAWINGS. NO SUBSTITUTIONS IN GRADES OR SIZES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF BEACH ROCKE ENGINEERING LTD. ALL ANGLES AND PLATES TO BE G40.21-300W.
- ALL FABRICATION SHALL BE CARRIED OUT IN PLANT FACILITIES CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA S16-09 AND S136. SITE FABRICATION IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CSA W59 BY WELDERS FULLY CERTIFIED FOR STRUCTURAL WELDING BY THE CANADIAN BUREAU TO CSA W47.1. ALL BASE AND CAP PLATES SHALL BE FULLY WELDED TO COLUMNS.
- STRUCTURAL FASTENERS SHALL BE A325 BOLTS. ANCHOR BOLTS SHALL BE 18" LG. C/W 3"HOOK (A307) UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. BASE AND CAP PLATES TO BE 3/4" THICK. CAP PLATES TO HAVE MIN. 4 BOLT (A325) CONNECTION UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
- PROVIDE TEMPORARY GUYING AND BRACING AS NECESSARY TO PROVIDE STABILITY FOR THE WHOLE STRUCTURE UNTIL DECKING AND PERMANENT BRACING ARE SECURED IN PLACE.
- PROVIDE 3/8" STIFFENER PLATES IN ALL BEAMS CONTINUOUS OVER SUPPORTS. HOLES ARE NOT PERMITTED IN THE TOP FLANGES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CLEAN ALL FIELD WELDS AND TOUCH UP WITH PRIMER TO MATCH SHOP COAT - ZINC PAINT
- DESIGN AND FABRICATE CONNECTIONS FOR THE FULL STRENGTH OF THE MEMBER. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS WRITTEN APPROVAL FROM THE DESIGN ENGINEER HAS BEEN PROVIDED.
- ALL STEEL SHALL BE GALVANIZED.**
- STRUCTURAL STEEL SUPPLIER SHALL PROVIDE STAMPED SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

STRUCTURAL DRAWING LIST:

- S1 - STRUCTURAL PROJECT NOTES
- S2 - TYP TANK SLAB, BOLLARD AND BASE PLATE DETAILS & ISOMETRIC VIEW OF METAL STAND
- S3 - CONNECTION #1 DETAILS
- S4 - CONNECTION #2 DETAILS
- S5 - TANK #1 - PLAN VIEW OF TANK ON SLAB
- S6 - TANK #1 - ELEVATIONS OF TANK ON SLAB
- S7 - TANK #2 - PLAN VIEW OF TANK ON LOW METAL STAND
- S8 - TANK #2 - ELEVATIONS OF LOW METAL STAND
- S9 - TANK #2 - ELEVATIONS OF LOW METAL STAND
- S10 - TANK #3 - PLAN VIEW OF TANK ON HIGH METAL STAND
- S11 - TANK #3 - ELEVATIONS OF HIGH METAL STAND
- S12 - TANK #3 - ELEVATIONS OF HIGH METAL STAND
- S13 - TANK #4 - PLAN VIEW OF TANK ON LOW DOUBLE METAL STAND
- S14 - TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
- S15 - TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
- S16 - TANK #5 - PLAN VIEW OF TANK ON HIGH DOUBLE METAL STAND
- S17 - TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND
- S18 - TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
PROJECT NOTES

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. # | REVISION | DATE (YY MM DD) | REV. BY

REV. # | REVISION

DATE (YY MM DD)

REV. BY

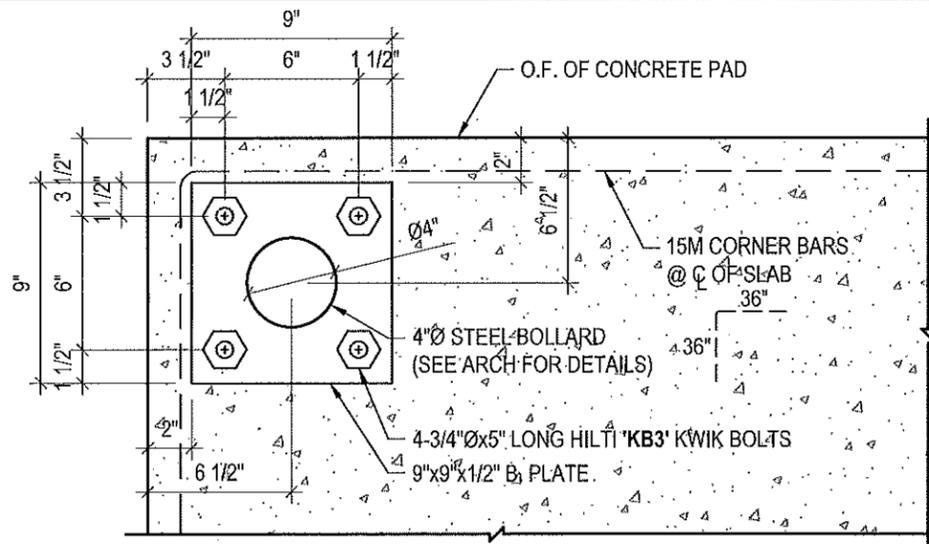
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DRAWING NUMBER:

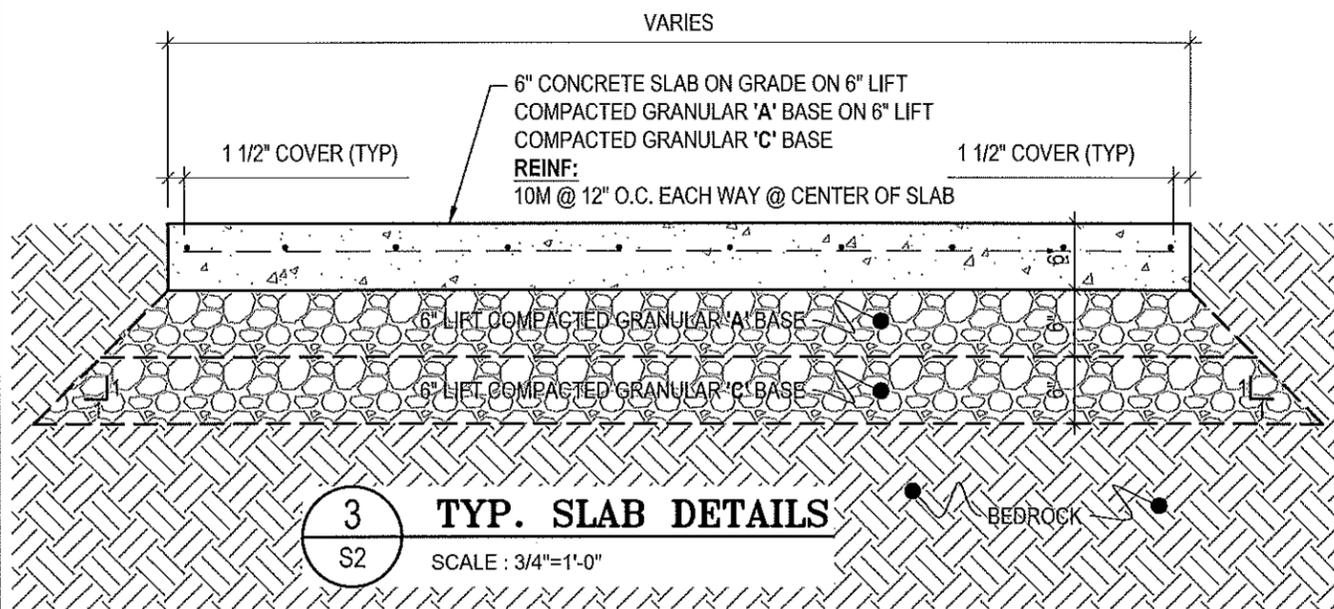
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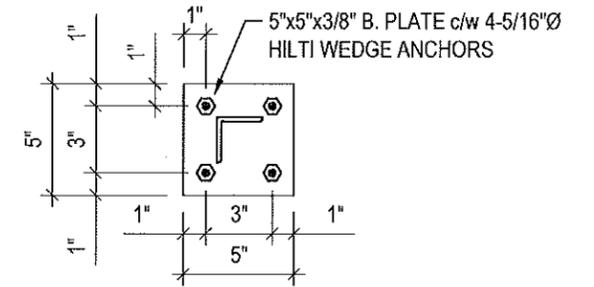


1 TYP BOLLARD BASE PLATE DETAILS
S2 SCALE: 1 1/2"=1'-0"

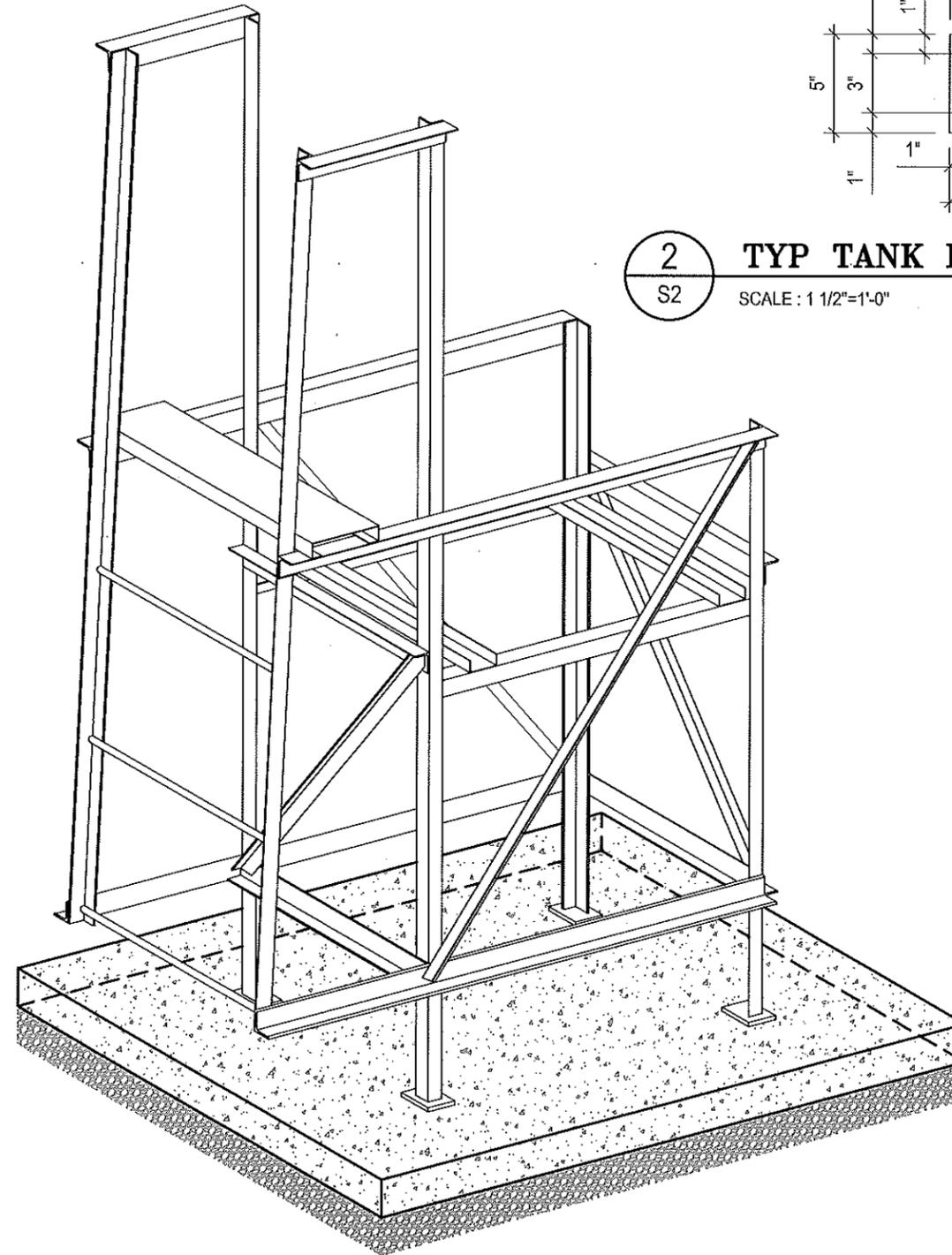
NOTES:
 • ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 • CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



3 TYP. SLAB DETAILS
S2 SCALE: 3/4"=1'-0"



2 TYP TANK BASE PLATE DETAIL
S2 SCALE: 1 1/2"=1'-0"



4 TYP. ISOMETRIC VIEW OF METAL STANDS
S2 NOT TO SCALE



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
TYPICAL PROJECT DETAILS
 PROJECT NUMBER:
17-122-CG-39



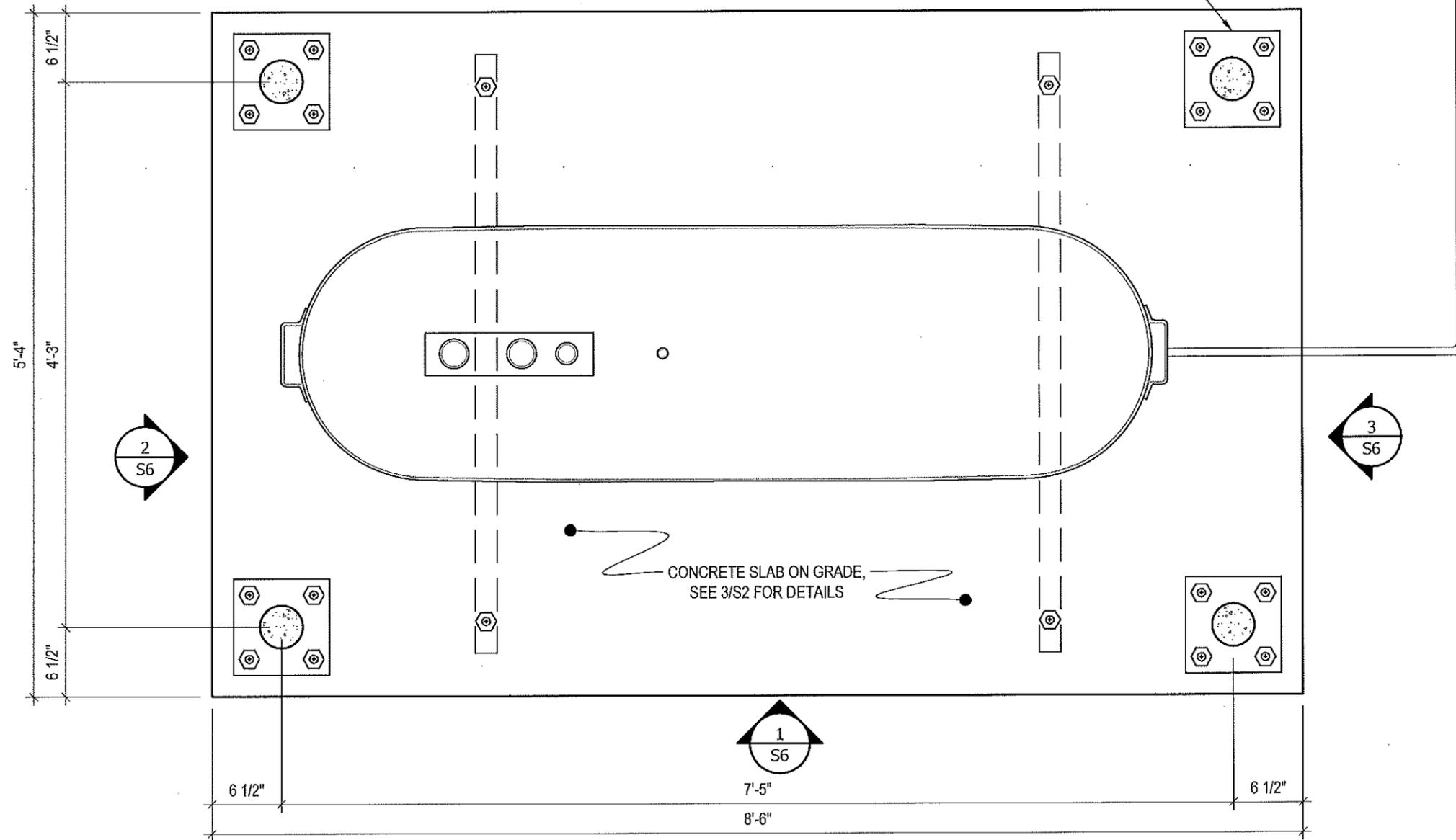
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02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
 DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S2
 REVISION NUMBER:
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CONCRETE BOLLARD BASE PLATE. SEE 1/S2 FOR STRUCTURAL DETAILS, SEE MECHANICAL DRAWINGS FOR LOCATION AND NUMBER OF BOLLARDS REQUIRED FOR EACH CONCRETE PAD BASE



1 PLAN VIEW - TANK #1
 S5 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
TANK #1 - PLAN VIEW
 PROJECT NUMBER:
17-122-CG-39

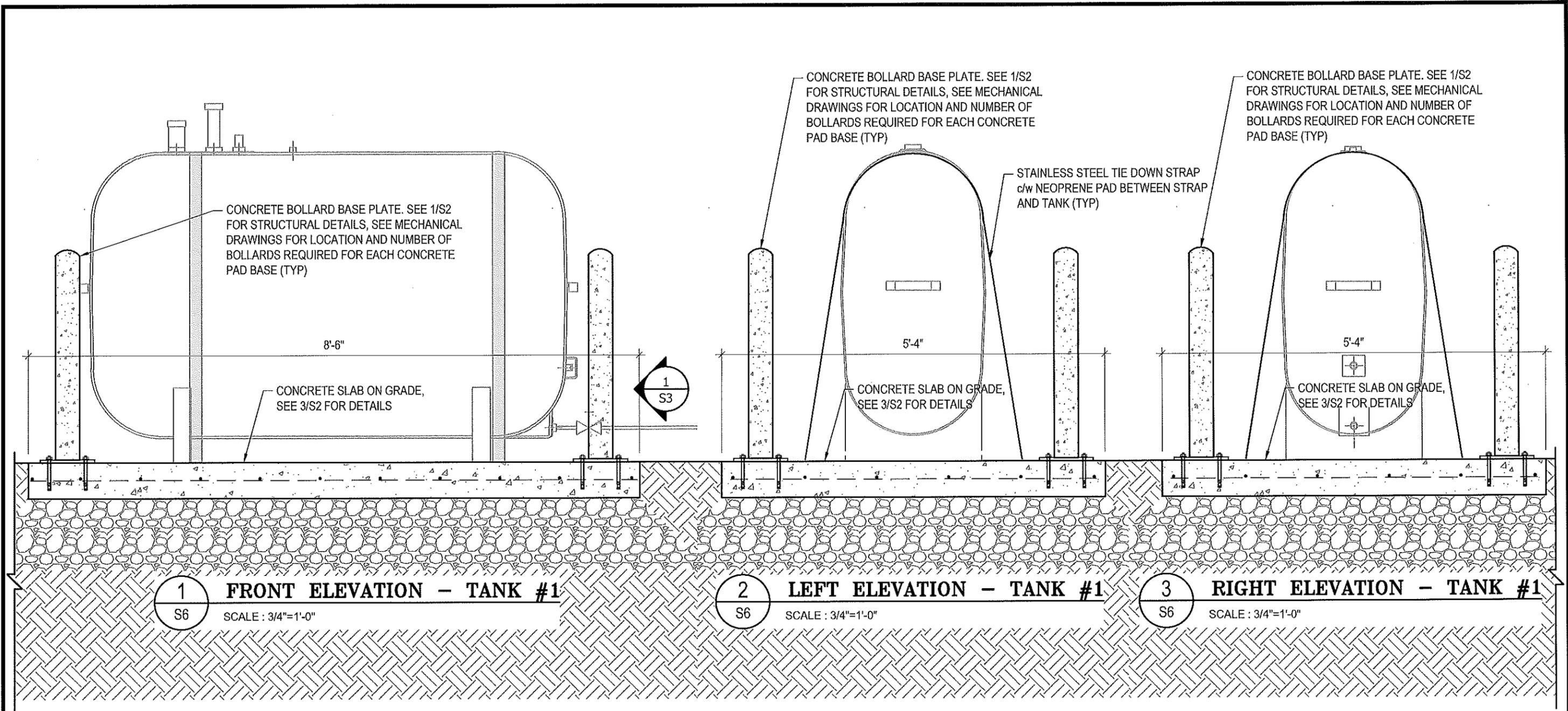


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02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

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SCALE:
AS NOTED
 DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S5
 REVISION NUMBER:
00



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #1 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

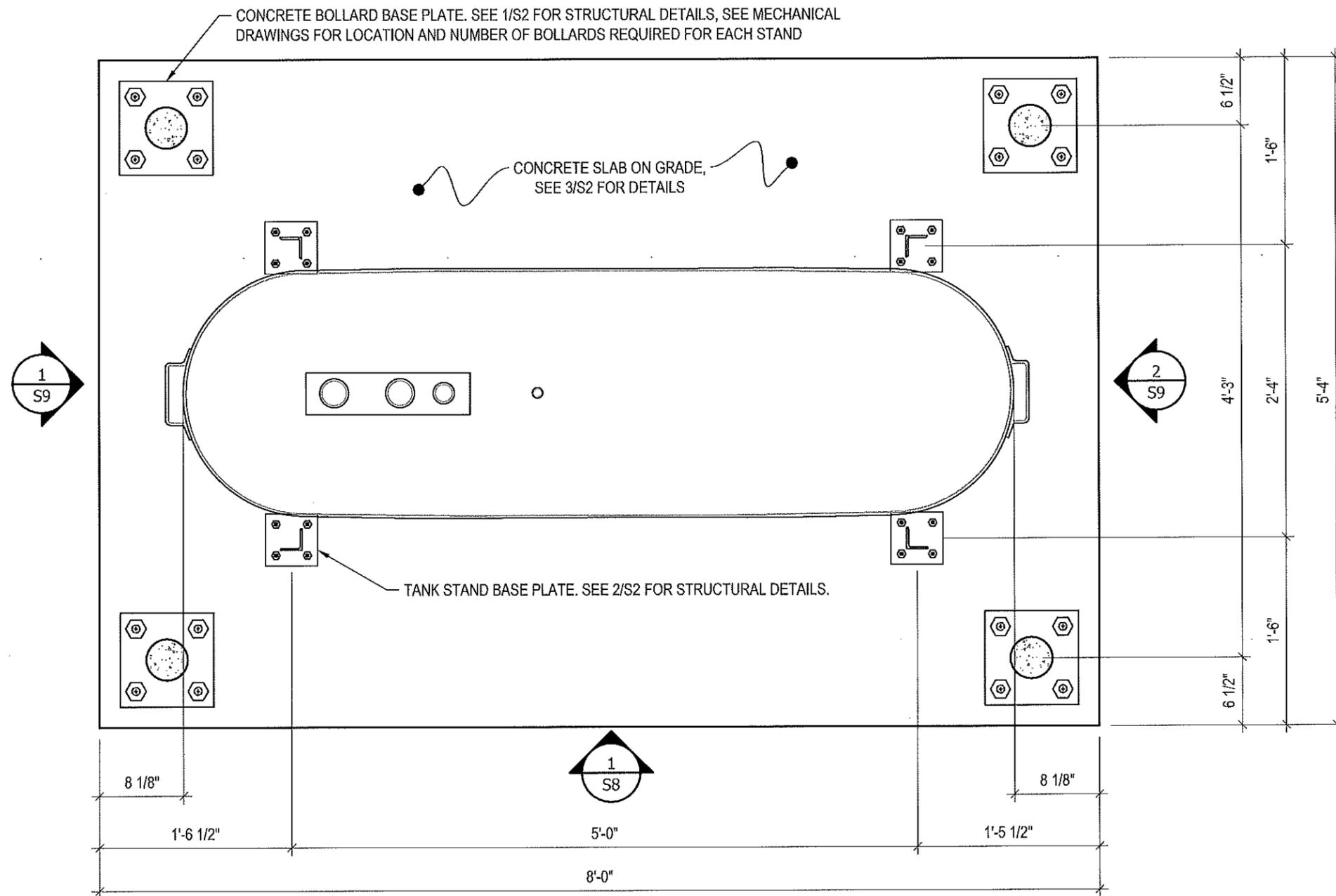
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S6

REVISION NUMBER:
00



1 PLAN VIEW - TANK #2
S7 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #2 - PLAN VIEW
PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

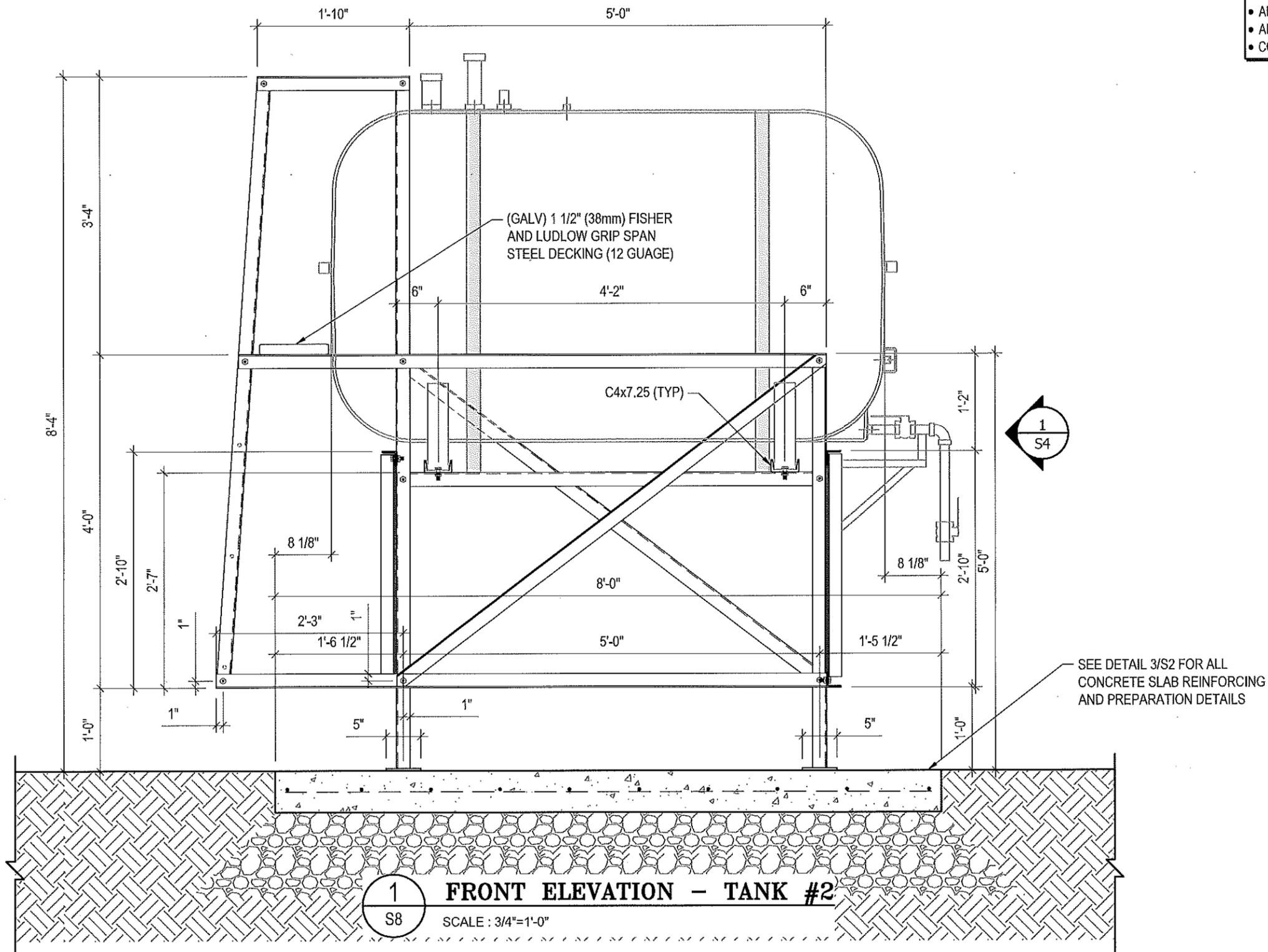
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DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

S7

REVISION NUMBER:
00

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1
S8 FRONT ELEVATION - TANK #2
SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #2 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED

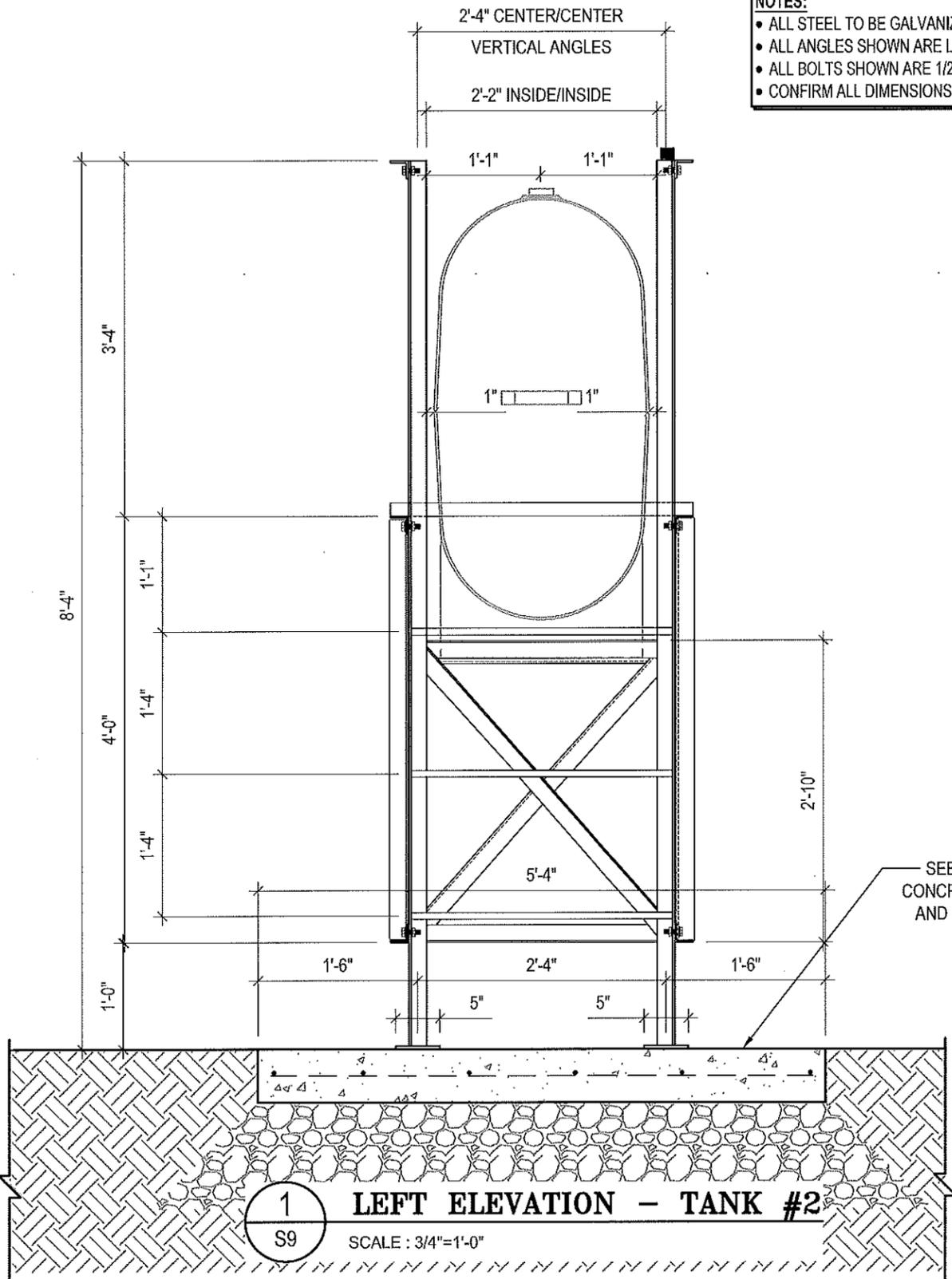
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

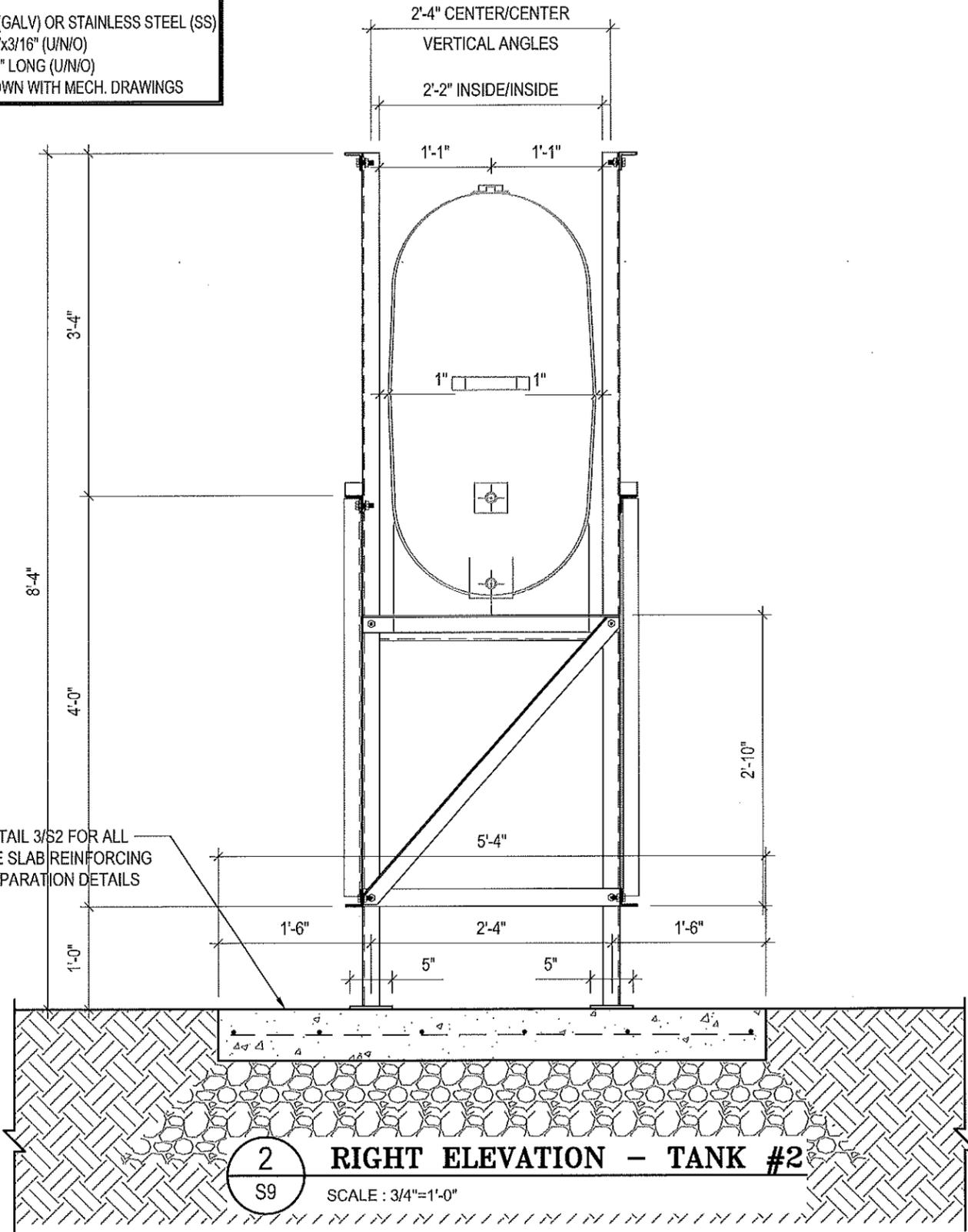
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REVISION NUMBER:
00

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE 1.2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1 LEFT ELEVATION - TANK #2
S9 SCALE: 3/4"=1'-0"



2 RIGHT ELEVATION - TANK #2
S9 SCALE: 3/4"=1'-0"

SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #2 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39

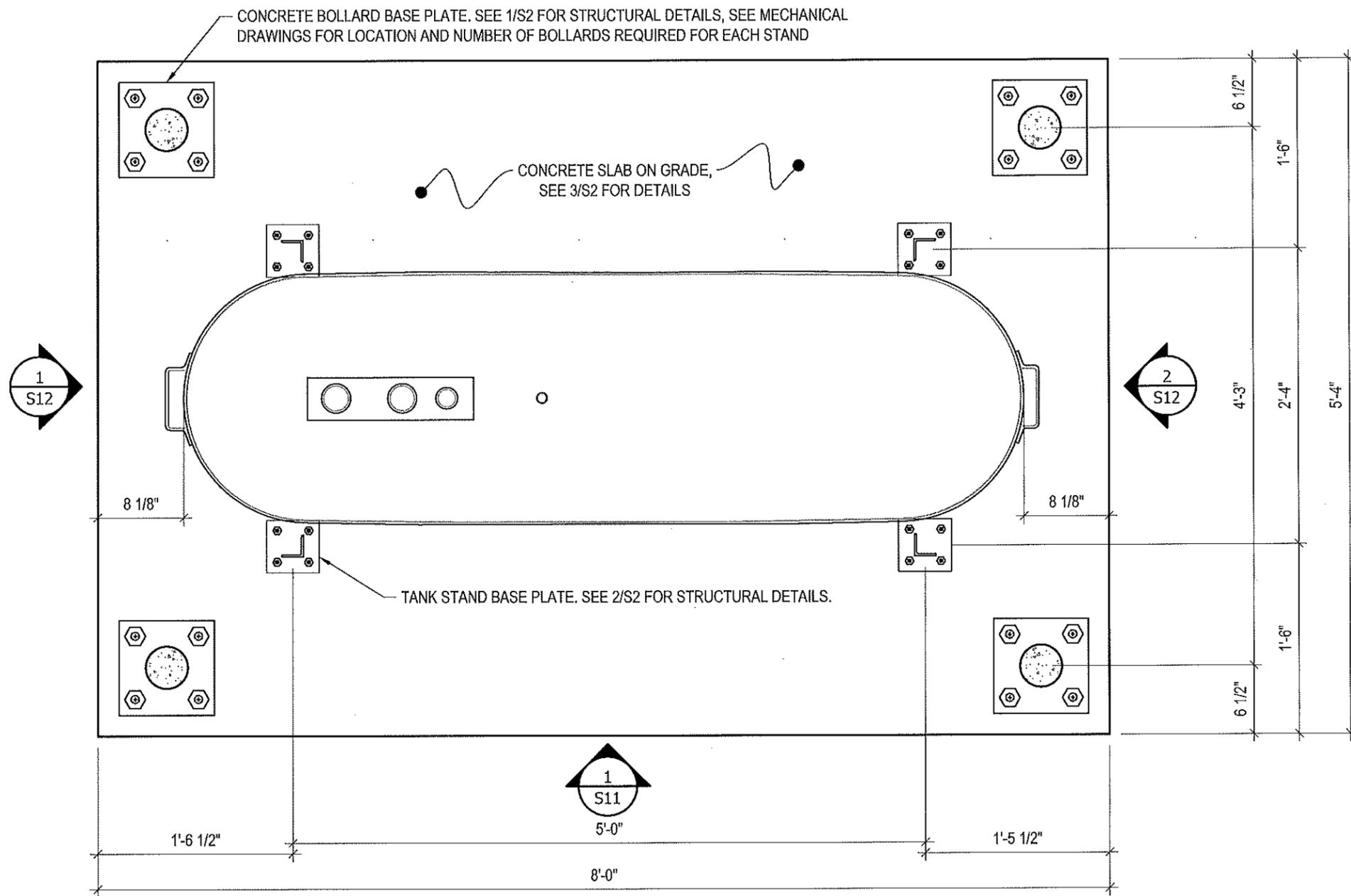


REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S9
REVISION NUMBER:
00



1 PLAN VIEW - TANK #3
 S10 SCALE: 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

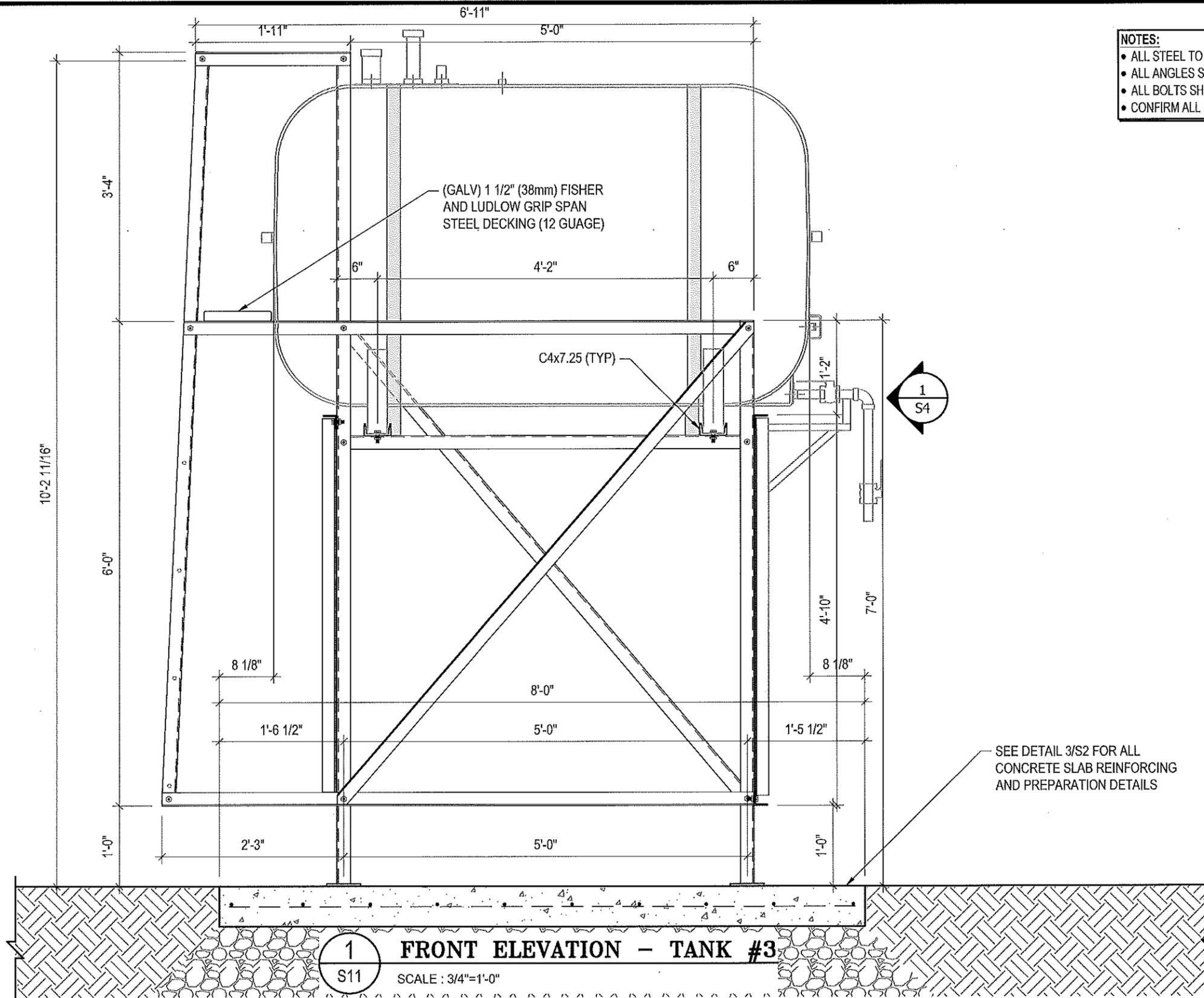
SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

S10

REVISION NUMBER:
00



- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



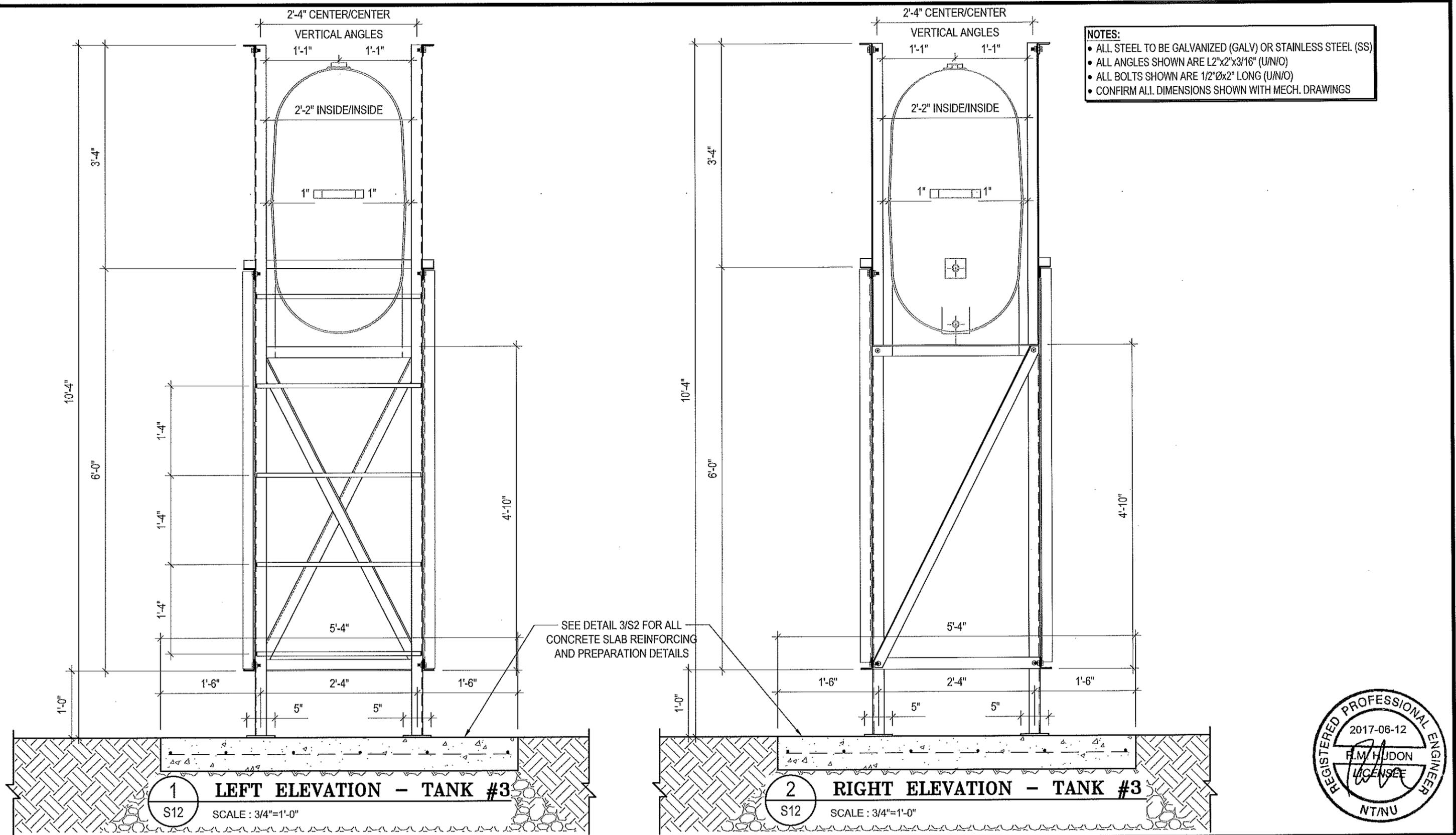
REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER: S11
REVISION NUMBER: 00



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39

Beach Rocke
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Website: www.beachrocke.ca

REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
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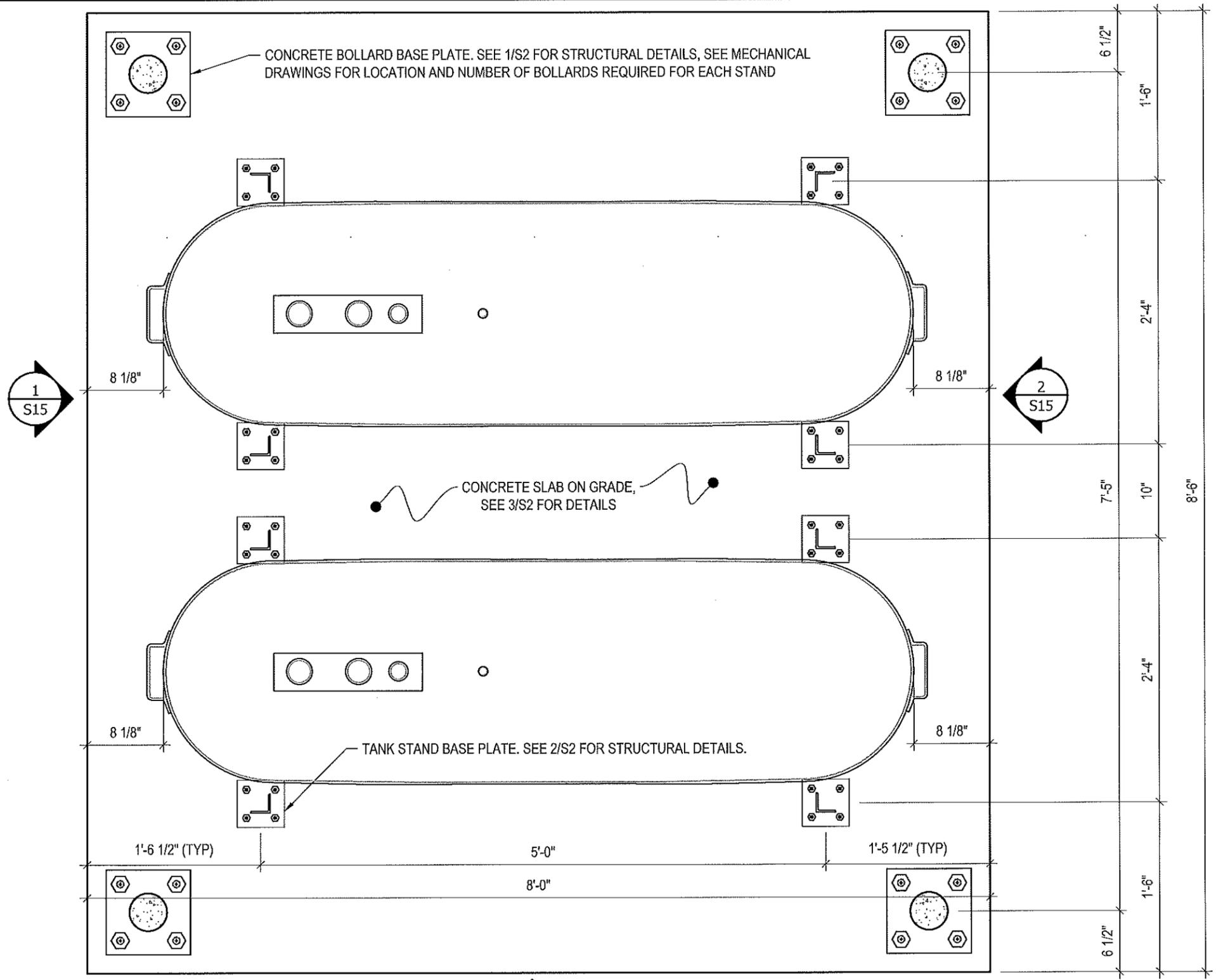
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S12

REVISION NUMBER:
00



1 PLAN VIEW - TANK #4
 S13 SCALE: 1"=1'-0"
 1 S14



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

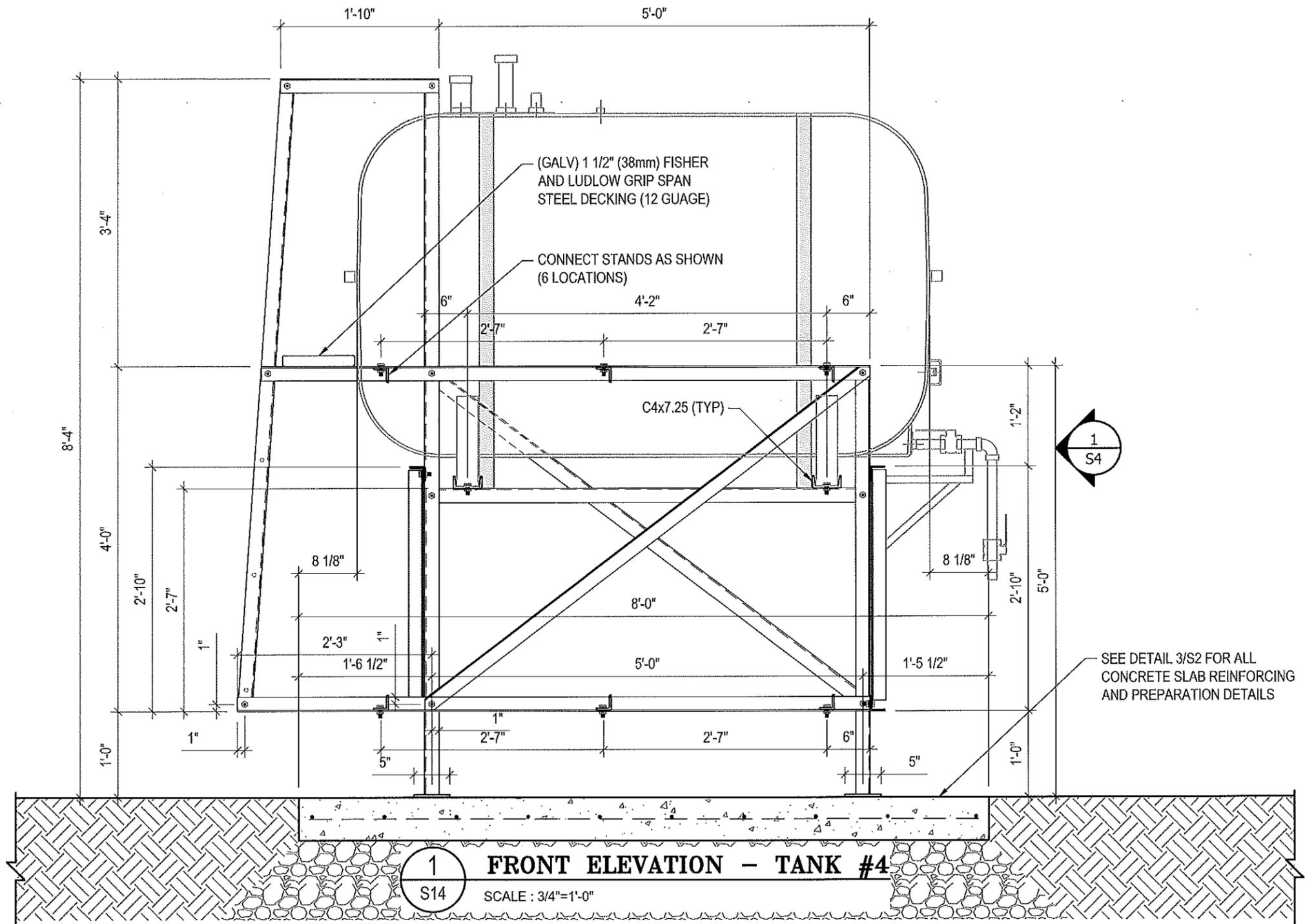
SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S13

REVISION NUMBER:
00

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

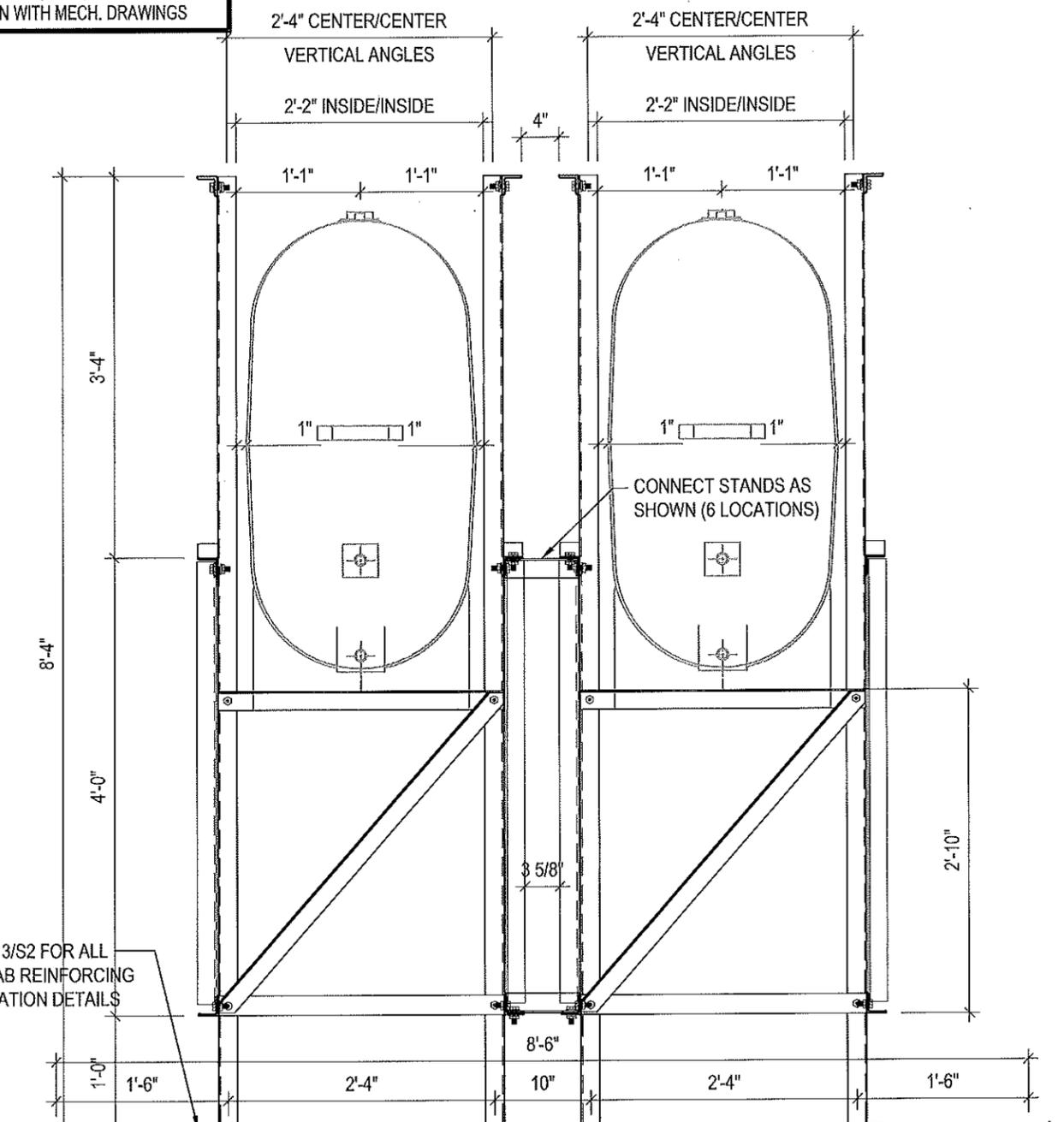
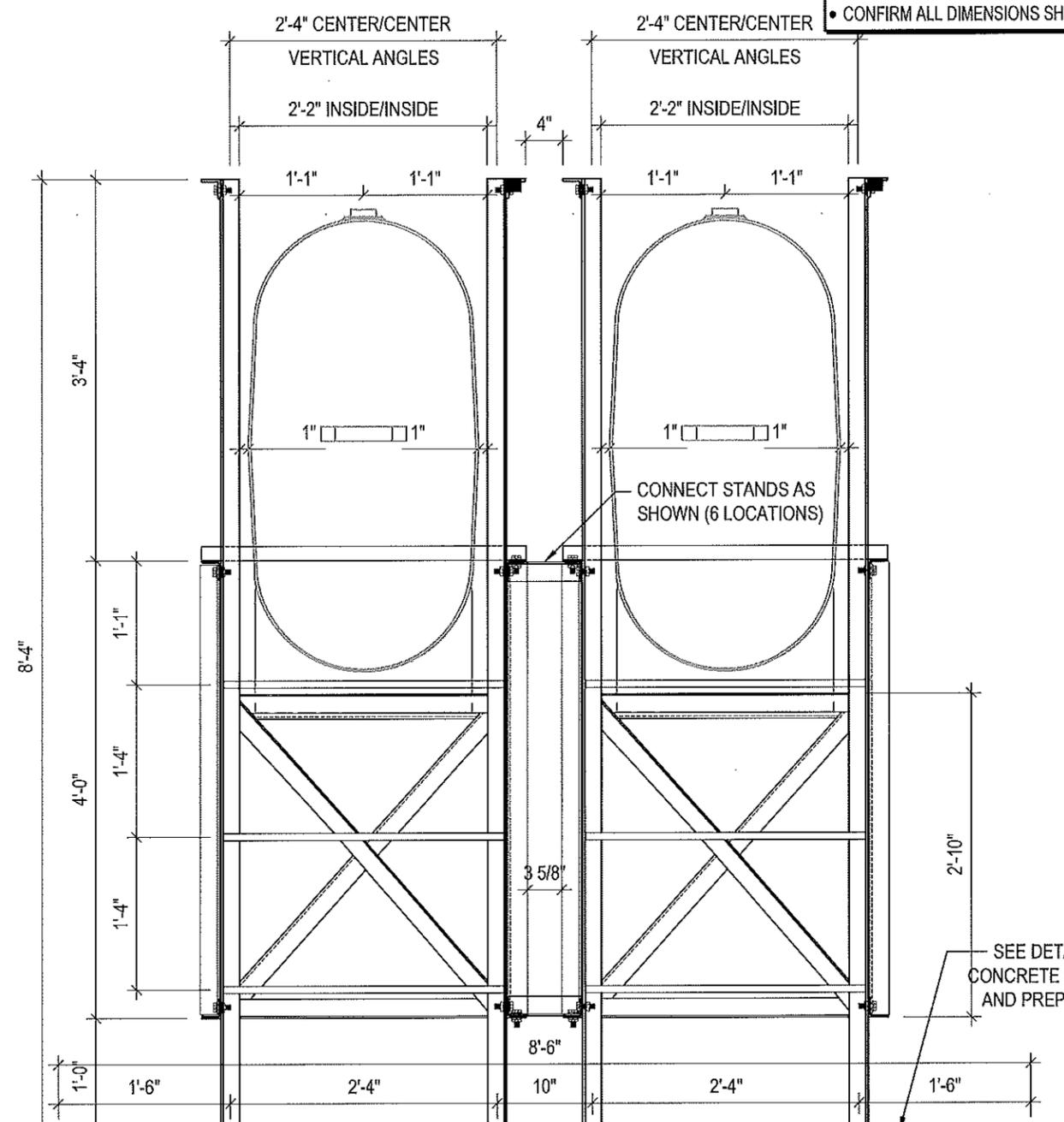
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S14

REVISION NUMBER:
00

NOTES:

- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
- ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
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- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1 LEFT ELEVATION - TANK #4
S15 SCALE: 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #4
S15 SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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01	ISSUED FOR REVIEW	17 03 31	RH

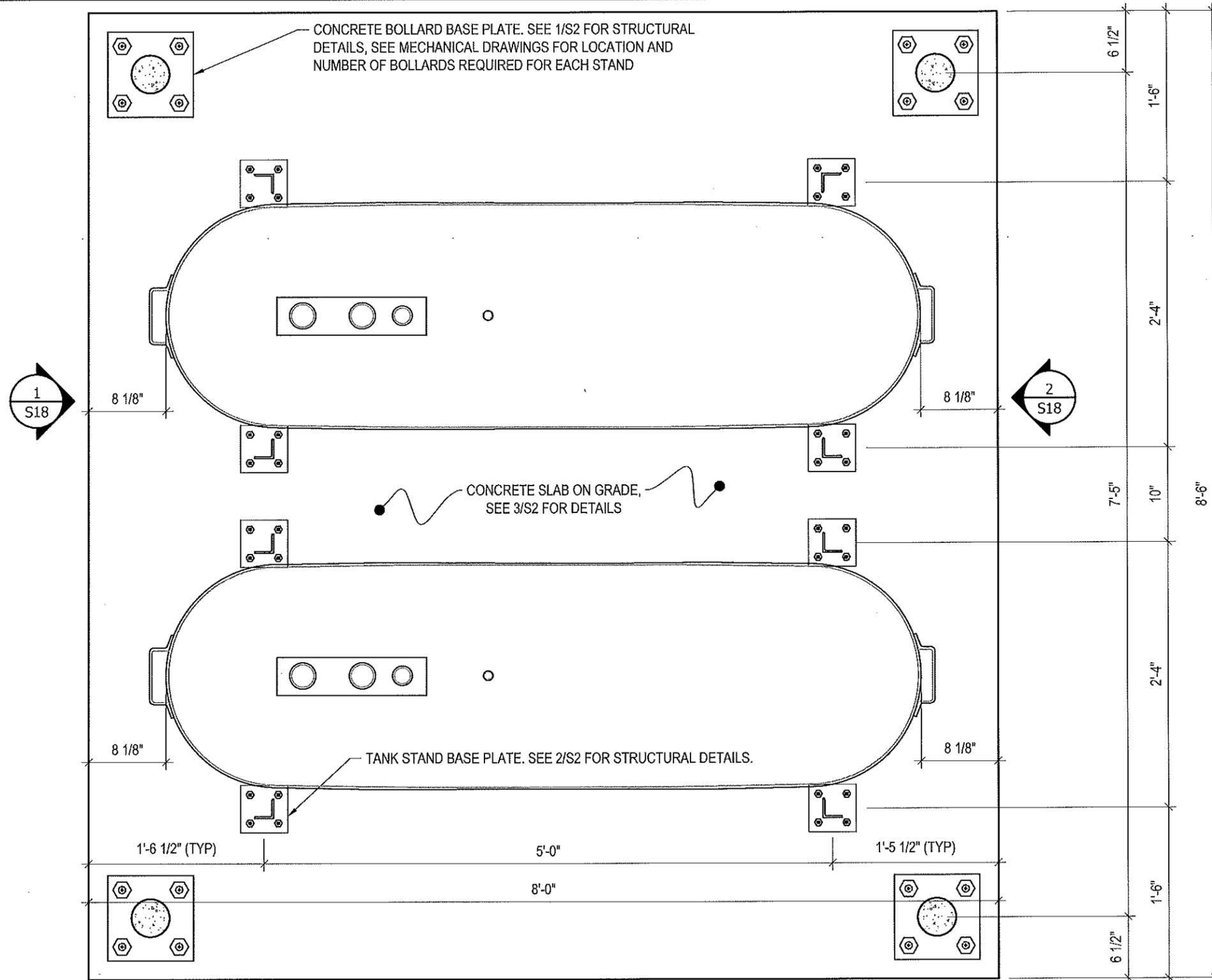
REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S15

REVISION NUMBER:
00



1 PLAN VIEW - TANK #5
 S16 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #5 - PLAN VIEW

PROJECT NUMBER:
17-122-CG-39

Beach Rocke
ENGINEERING LTD.

Professional Engineering Services
 1059 St. Mary's Road, Worsnip, Manitoba R2M 3Z9
 Telephone: (204) 255 7251 Fax: (204) 251 7239
 Website: www.beachrocke.ca

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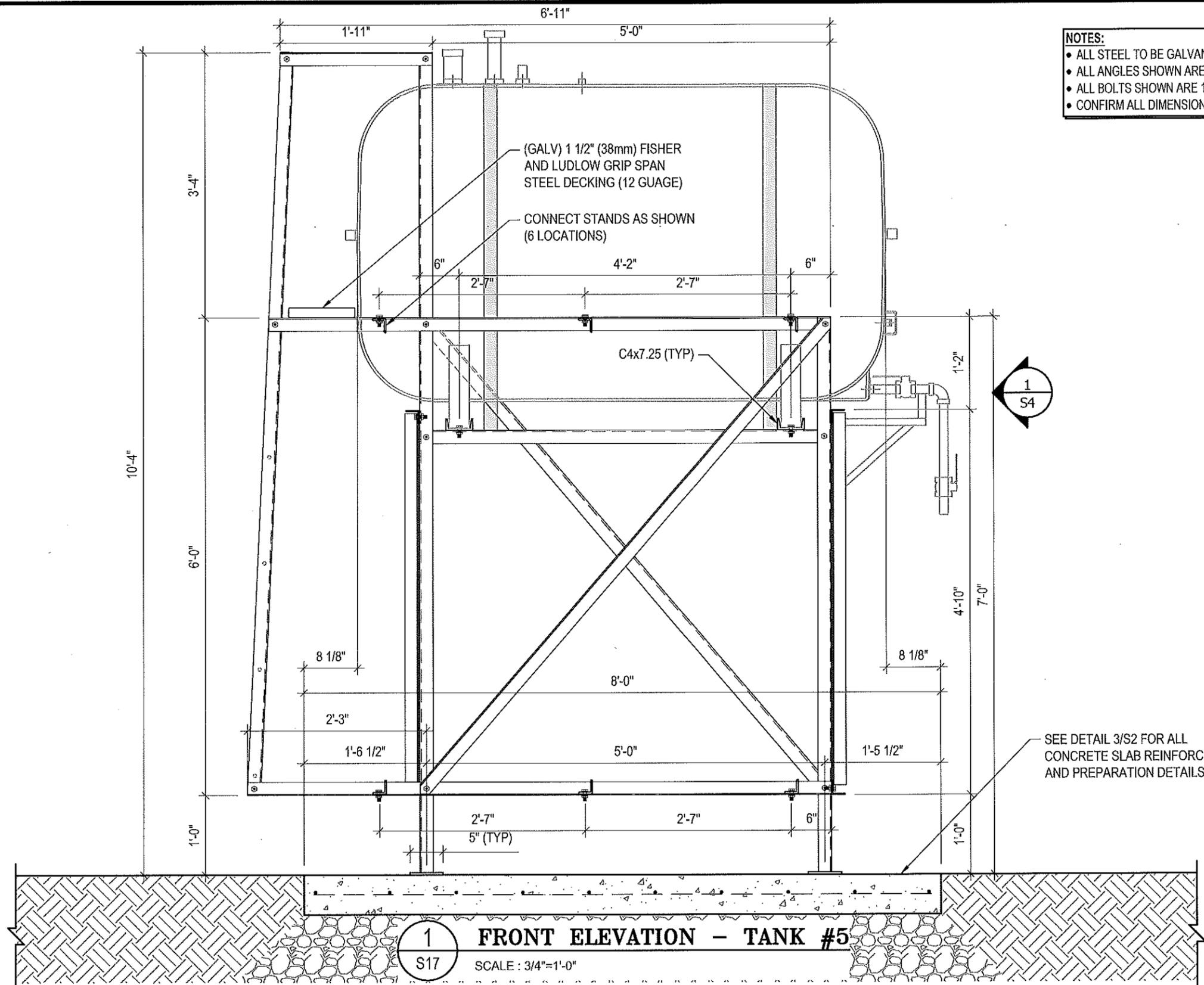
REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S16

REVISION NUMBER:
00



- NOTES:**
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 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

1
S17
FRONT ELEVATION - TANK #5
SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #5 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39

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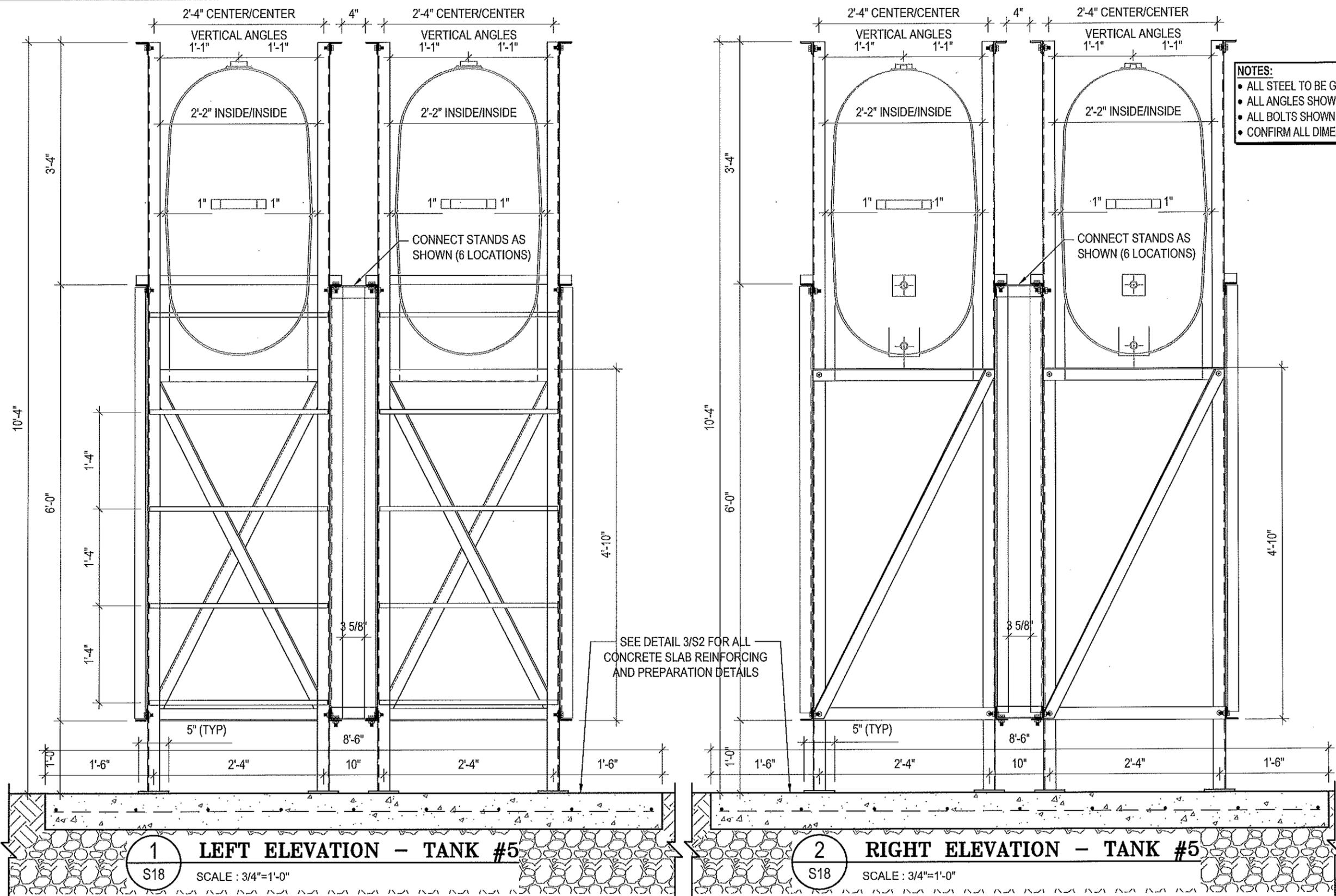
REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S17

REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
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 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

1 LEFT ELEVATION - TANK #5
S18 SCALE: 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #5
S18 SCALE: 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #5 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S18

REVISION NUMBER:
00