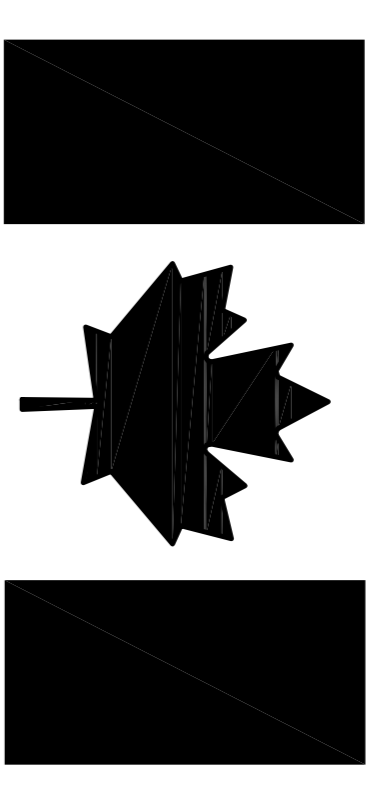


FISHERIES AND OCEANS CANADA / PECHES ET OCEANS CANADA



Canada

PROJECT TITLE FUEL TANK UPGRADES SAND HILL RIVER, LABRADOR

PROJECT NO : F6879-179218

ISSUED FOR TENDER:

DATE: 06/11/17

CLIENT/OWNER:

Fisheries and Oceans Canada
Pêches et Océans Canada
Real Property Services Immobiliers

PRIME CONSULTANTS:

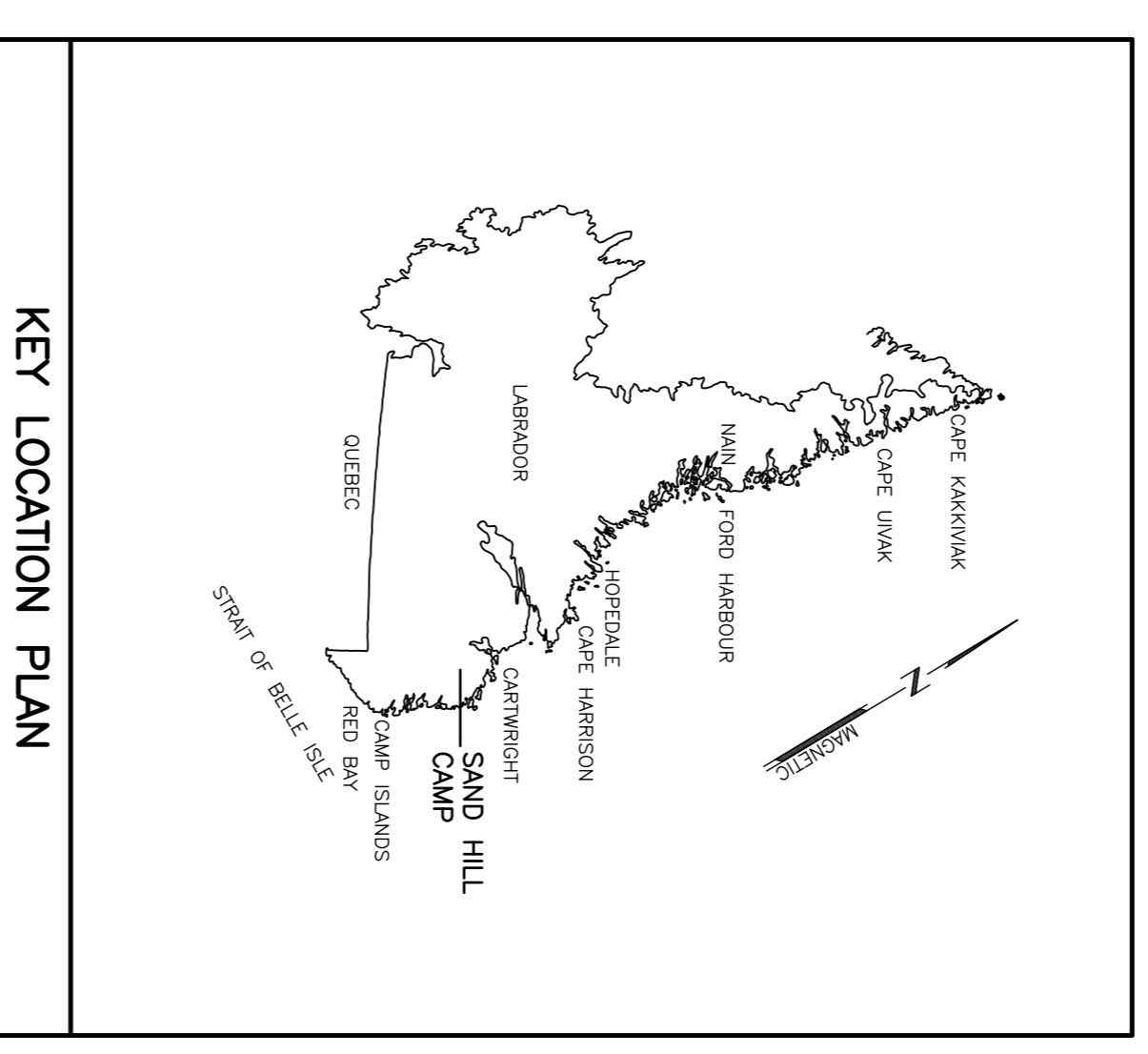


ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
5779R/F/AC ST. JOHNS, NL, CANADA A1B4K8
TEL: (709) 722-9013
FAX: (709) 722-9010

SUB CONSULTANTS:

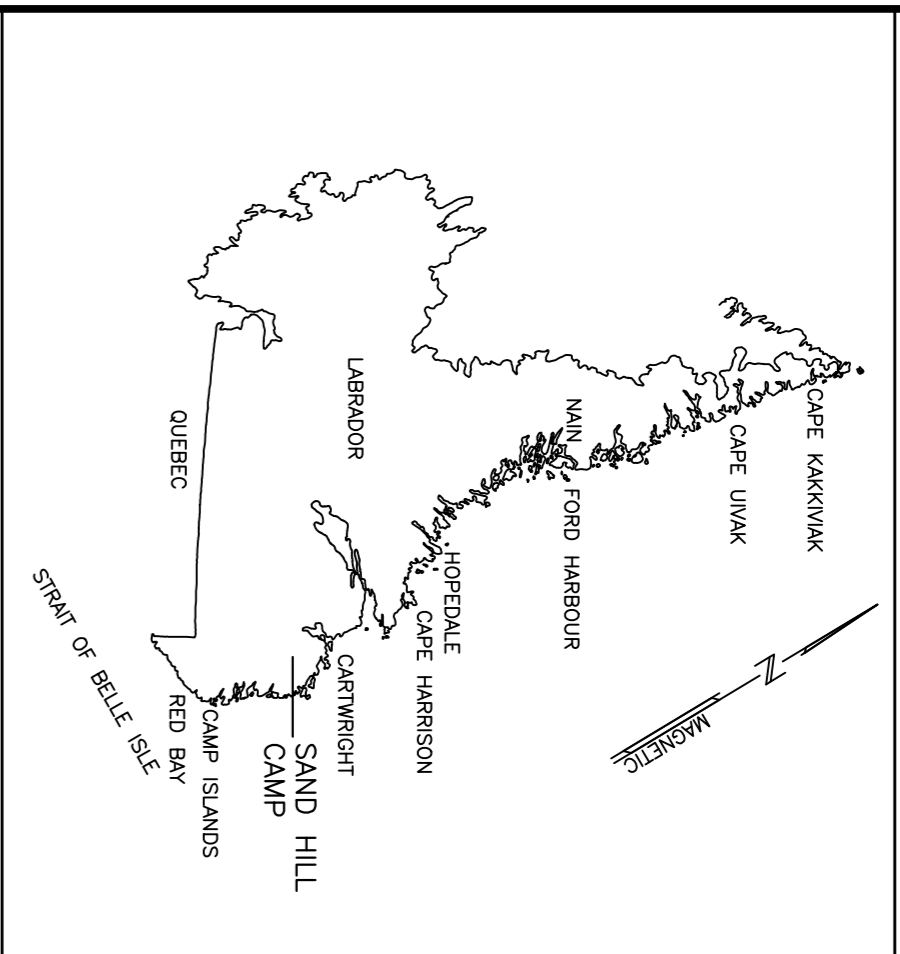


CONSULTING ENGINEERS - PROJECT MANAGERS
SOUTH RIVER OFFICE: P.O. BOX 400, ST. JOHNS, OFFICE
TEL: 709-786-4446 CLARE'S BEACH, TEL: 709-738-2066
FAX: 709-786-4140 NL, A2A 1W0 FAX: 709-738-2066
e-mail: info@newlabengineering.ca



DRAWING LIST:

No.	TITLE
13H0902A003C1	SITE PLAN
13H0902A003C1	SITE PLAN
13H0902A003A1	FLOOR PLAN, ELEVATIONS, SECTIONS AND DETAILS
13H0902A003S1	FOUNDATION/FLOOR FRAMING PLAN & DETAILS
13H0902A003S2	DETAILS
13H0902A003H1	MECHANICAL LAYOUT AND DETAILS
13H0902A003H2	MECHANICAL DETAILS, SCHEDULE, CONTROL SCHEMATICS & LEGEND
13H0902A003E1	ELECTRICAL LAYOUT AND DETAILS



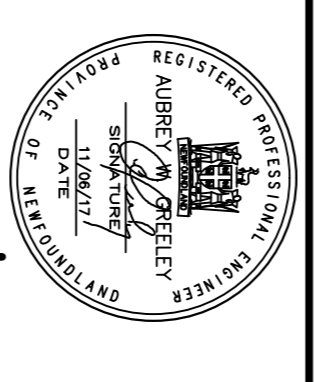
KEY LOCATION PLAN

PRIME CONSULTANT
CORE PROJECT #17-2730
CORE
ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
2570 WILSON AVENUE
ST. JOHN'S, NL A1A 1W6

SUB CONSULTANT
NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS - PROJECT MANAGERS
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e-mail: info@newlabengineering.ca

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PEIG
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PERMIT HOLDER
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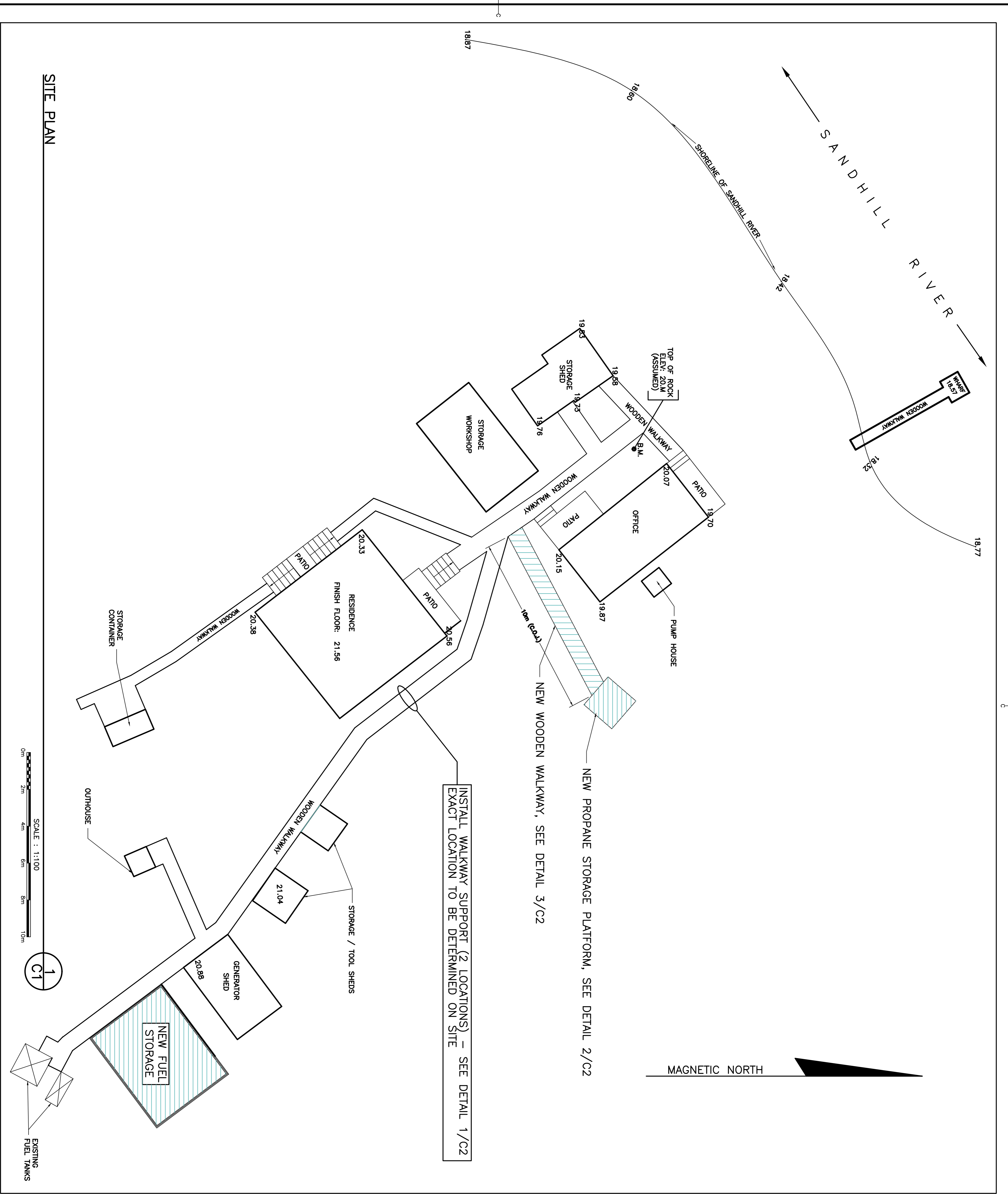


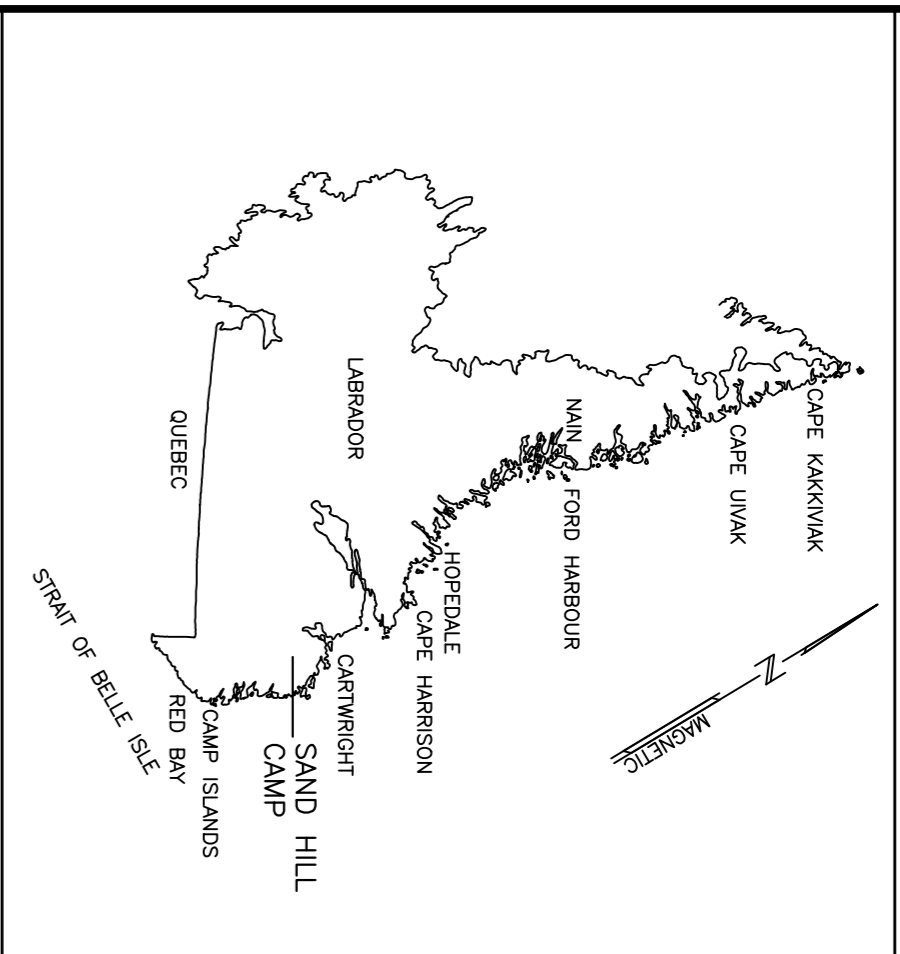
RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	project

FUEL TANK UPGRADES
SANDHILL RIVER, LABRADOR

SITE PLAN

designed	R.B./A.G.	compu
date	AUGUST 2017	
drawn	S.L.	dessiné
date	AUGUST 2017	
approved	R.B./A.G.	approuvé
date	NOVEMBER 2017	
Tender		Submission
PMSC Project Manager		Administrateur de projets TPSC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003C1	no. du dessin





KEY LOCATION PLAN

PRIME CONSULTANT
CORE PROJECT #17-2730
CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
25 PARKWAY
ST. JOHN'S, NL A1A 1W6

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CONSULTING ENGINEERS - PROJECT MANAGERS
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e-mail: info@newlabengineering.ca

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CORE ENGINEERING INC.
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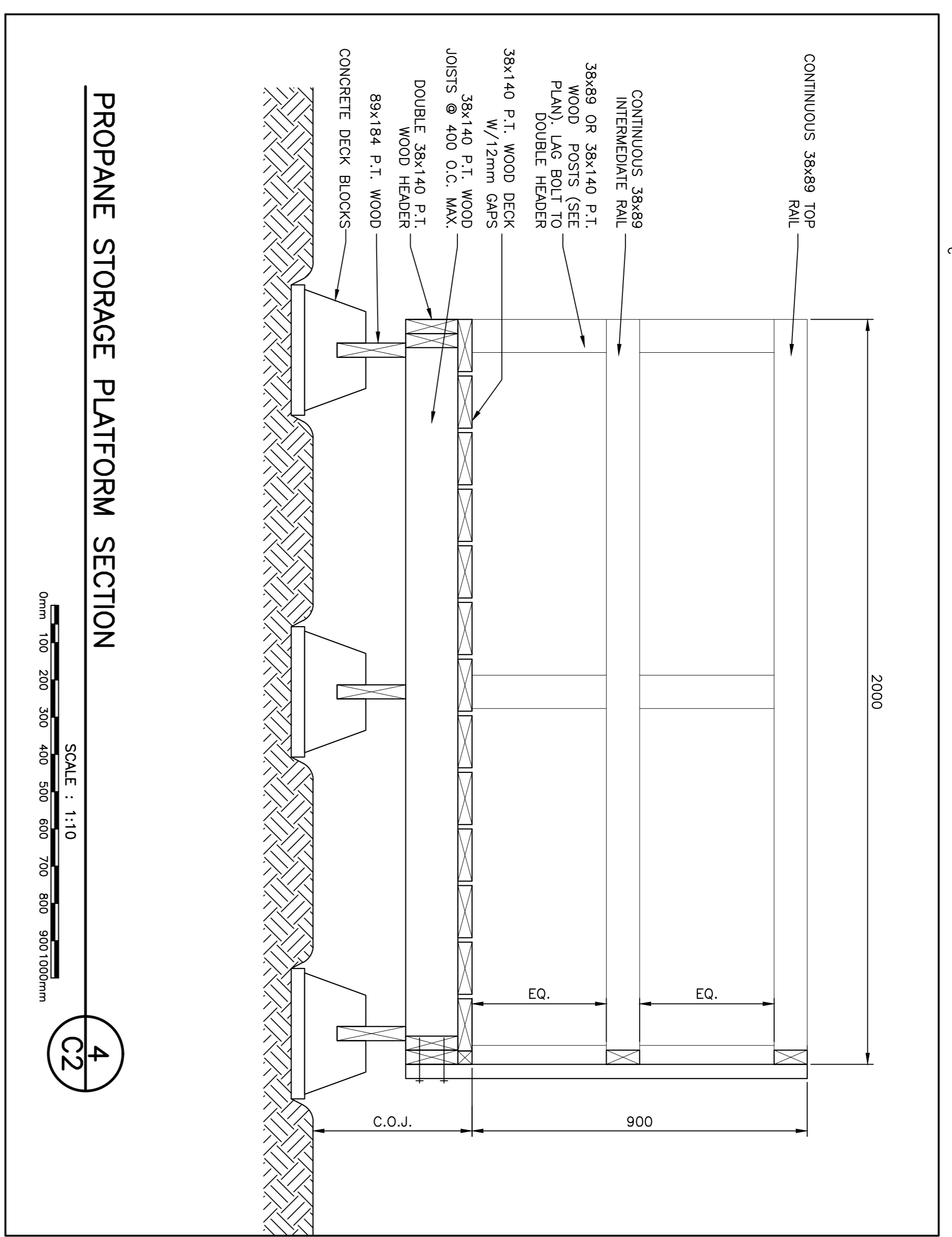
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RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	project

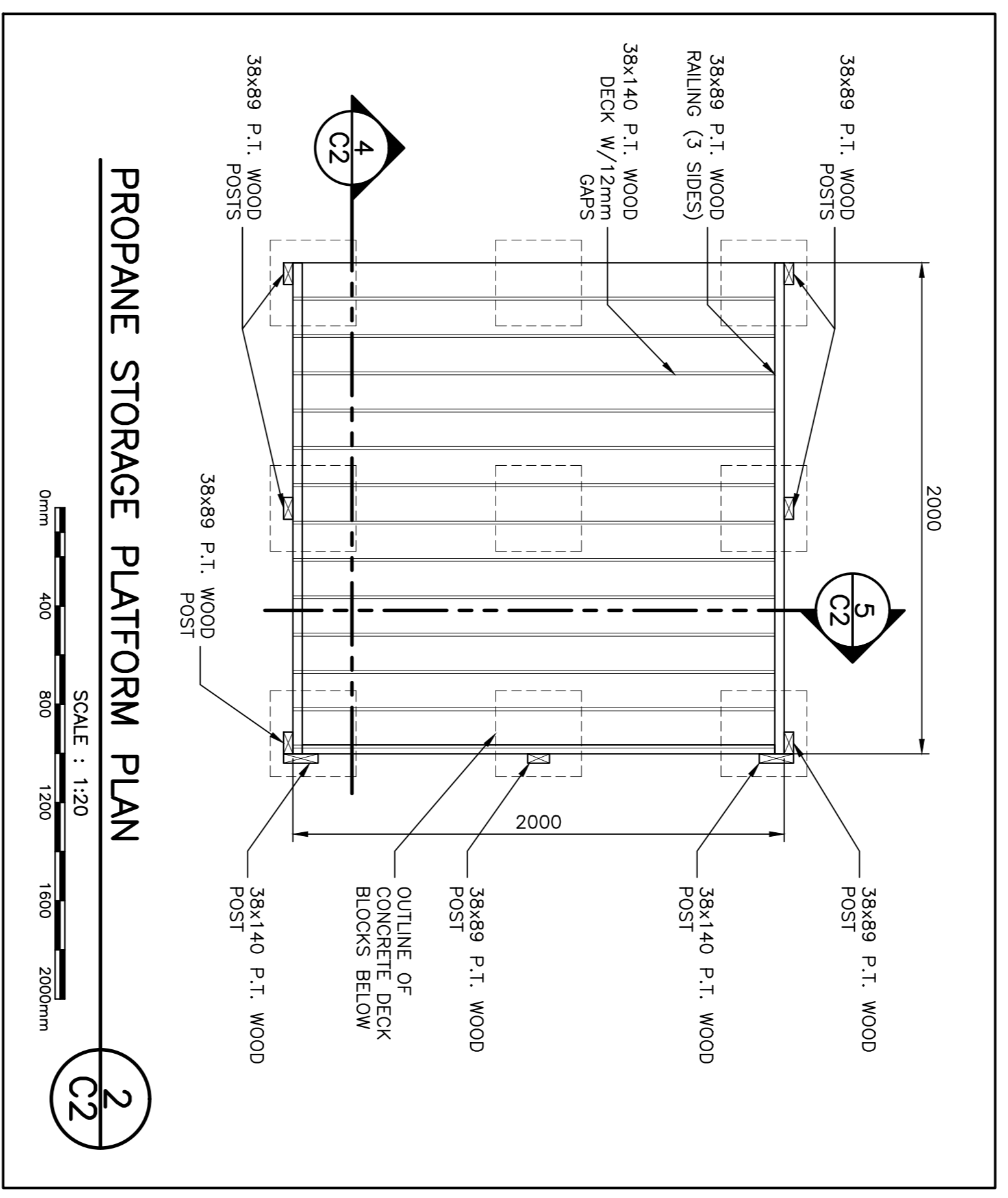


designed	R.B./A.G.	conçu
date	AUGUST 2017	
drawn	S.L.	dessiné
date	AUGUST 2017	
approved	R.B./A.G.	approuvé
date	NOVEMBER 2017	
Tender		Submission
PMSCS Project Manager		Administrateur de projets TPSCC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003C2	no. du dessin

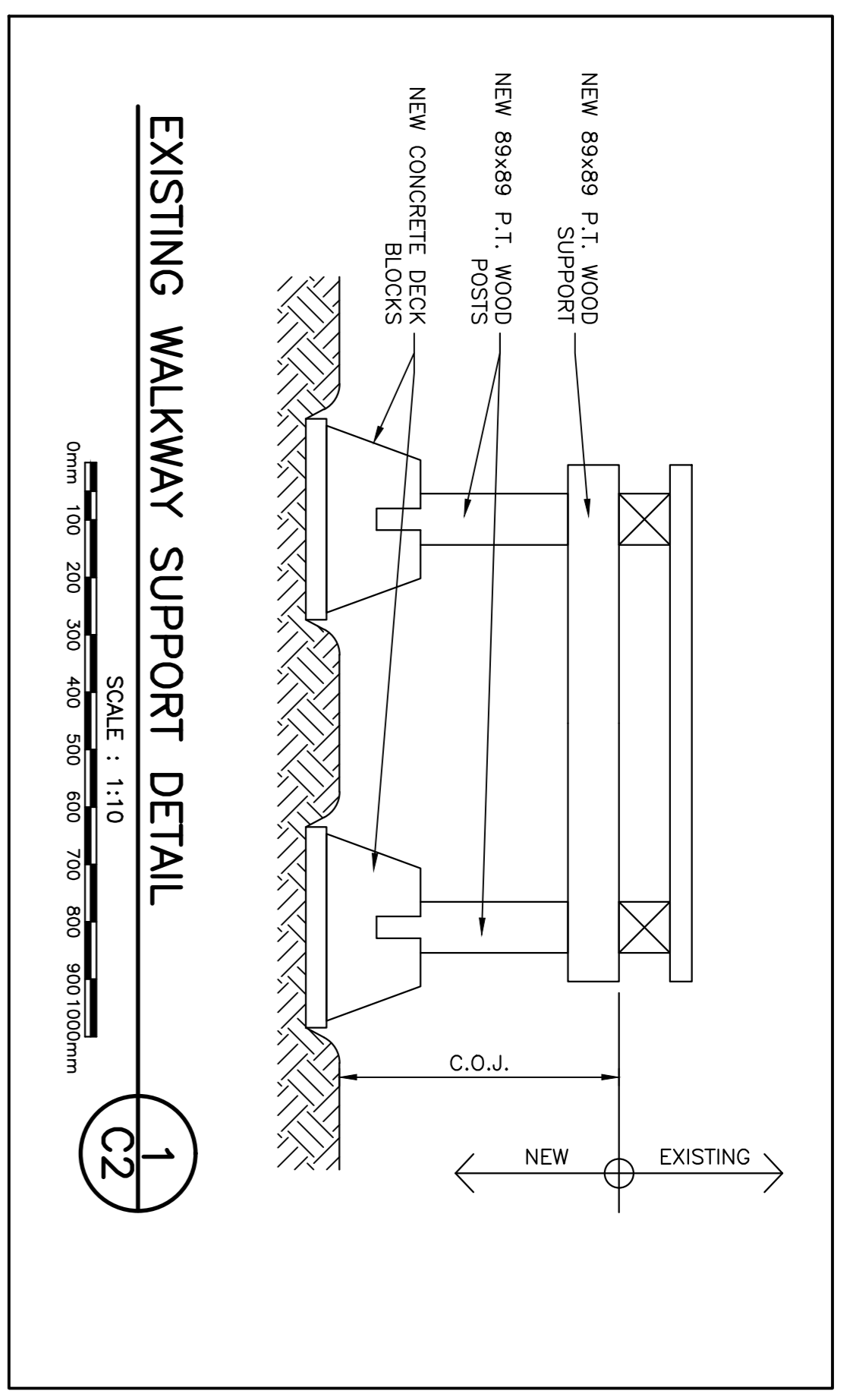
SITE PLAN



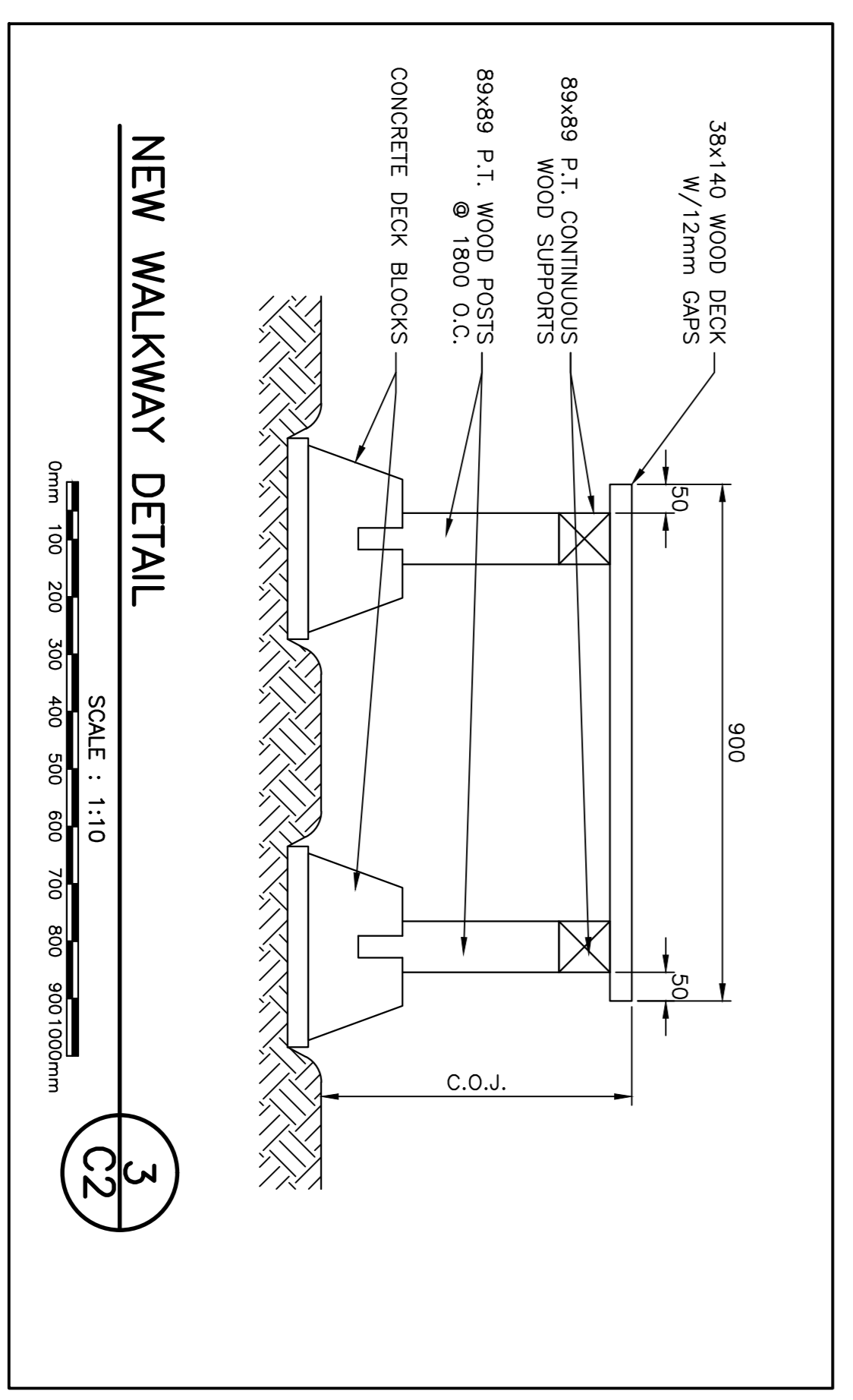
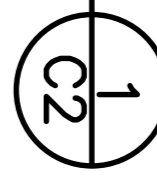
PROPEANE STORAGE PLATFORM SECTION



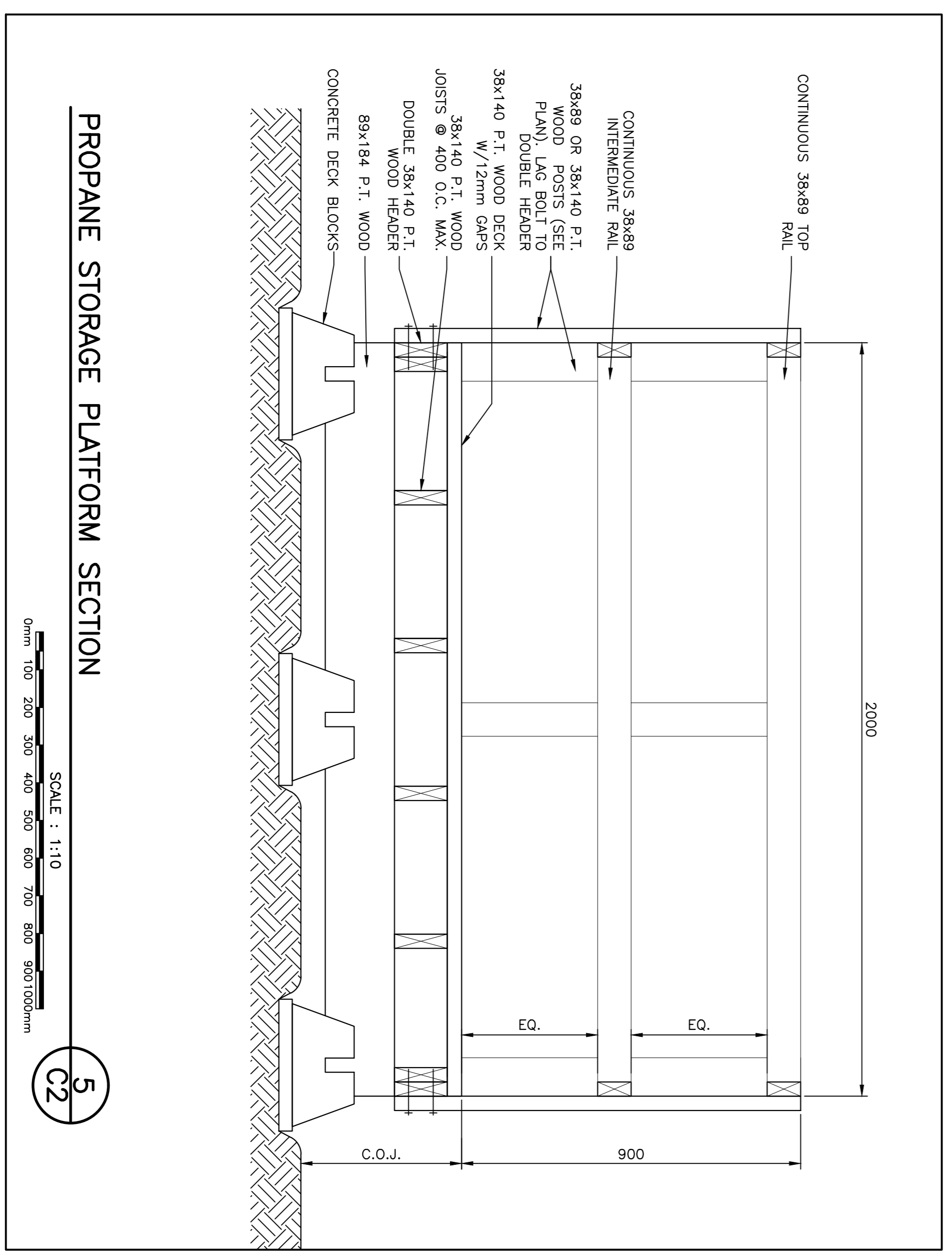
PROPEANE STORAGE PLATFORM PLAN



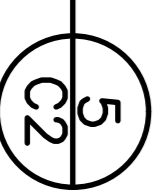
EXISTING WALKWAY SUPPORT DETAIL

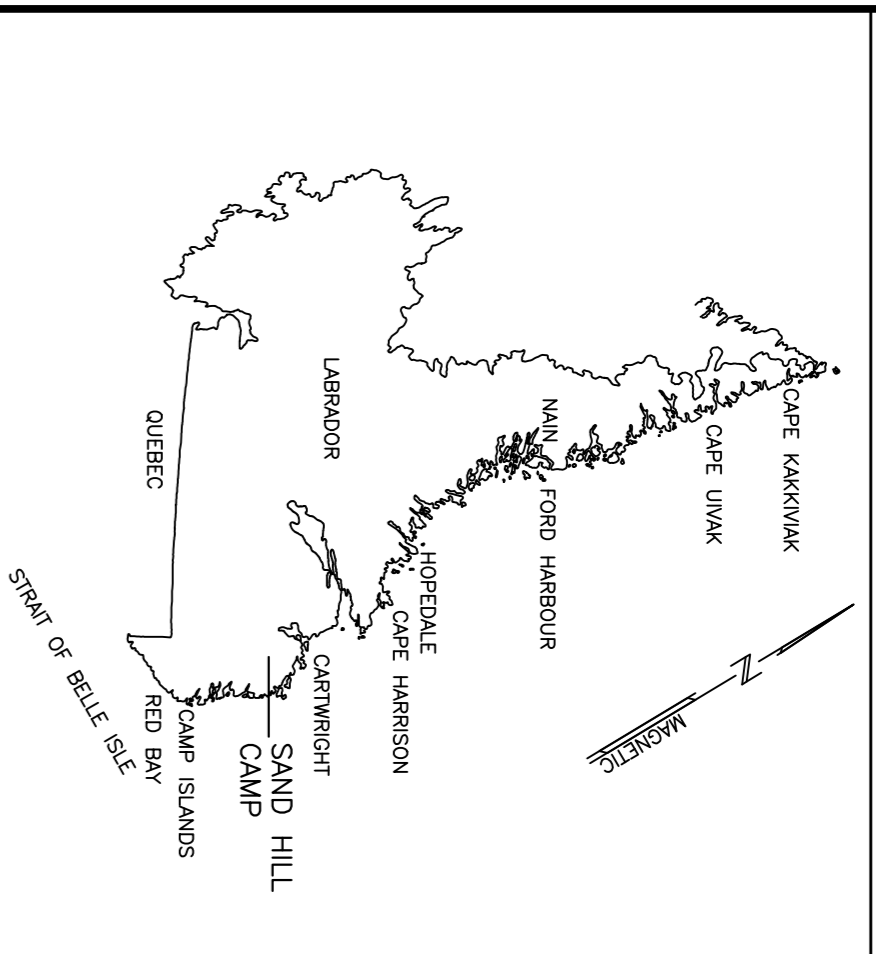


NEW WALKWAY DETAIL



PROPEANE STORAGE PLATFORM SECTION





PRIME CONSULTANT
CORE PROJECT #17-2730

CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
2570 WATKINS AVENUE
ST. JOHN'S, NL A1B 2X6

NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS - PROJECT MANAGERS
SOUTH BAY OFFICE P.O. BOX 400, ST. JOHN'S, OFFICE
TEL: 709-738-4448 CLARENCE BAY OFFICE TEL: 709-738-2065
FAX: 709-785-4140 NL, ADA, IWO FAX: 709-738-2066
e-mail: info@newlabengineering.ca

SUB CONSULTANT

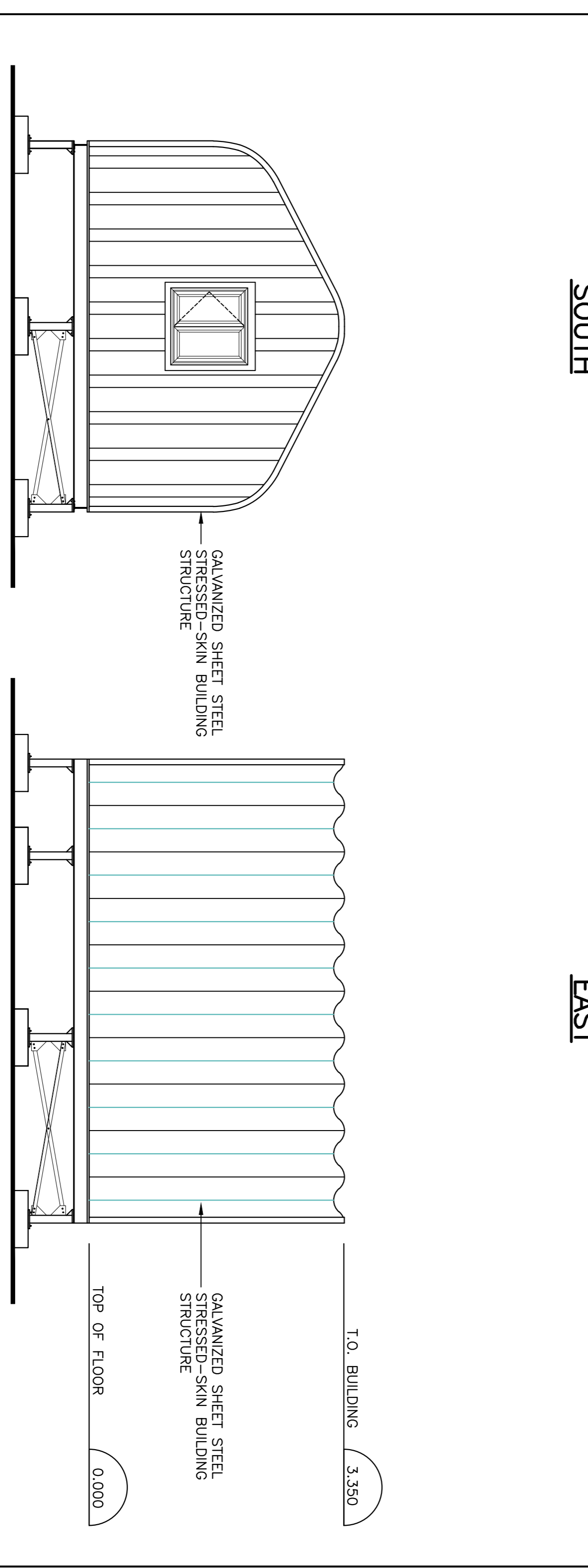
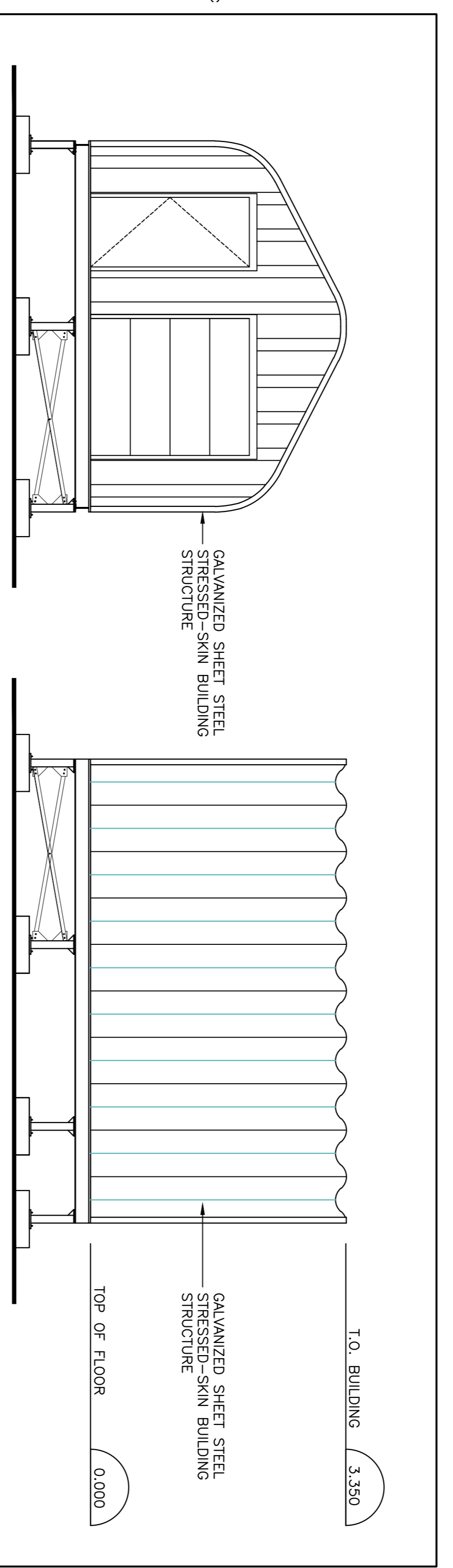
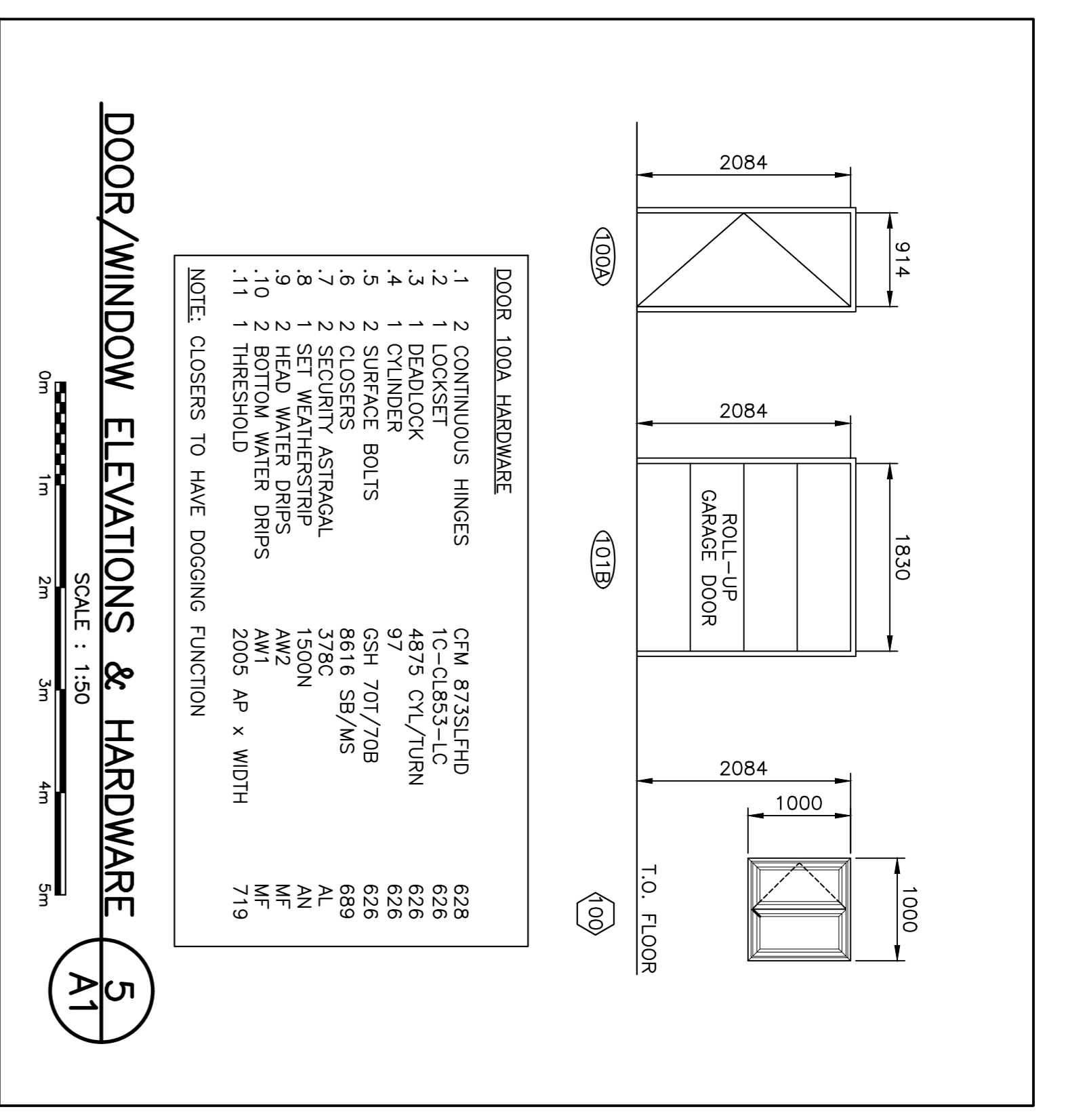
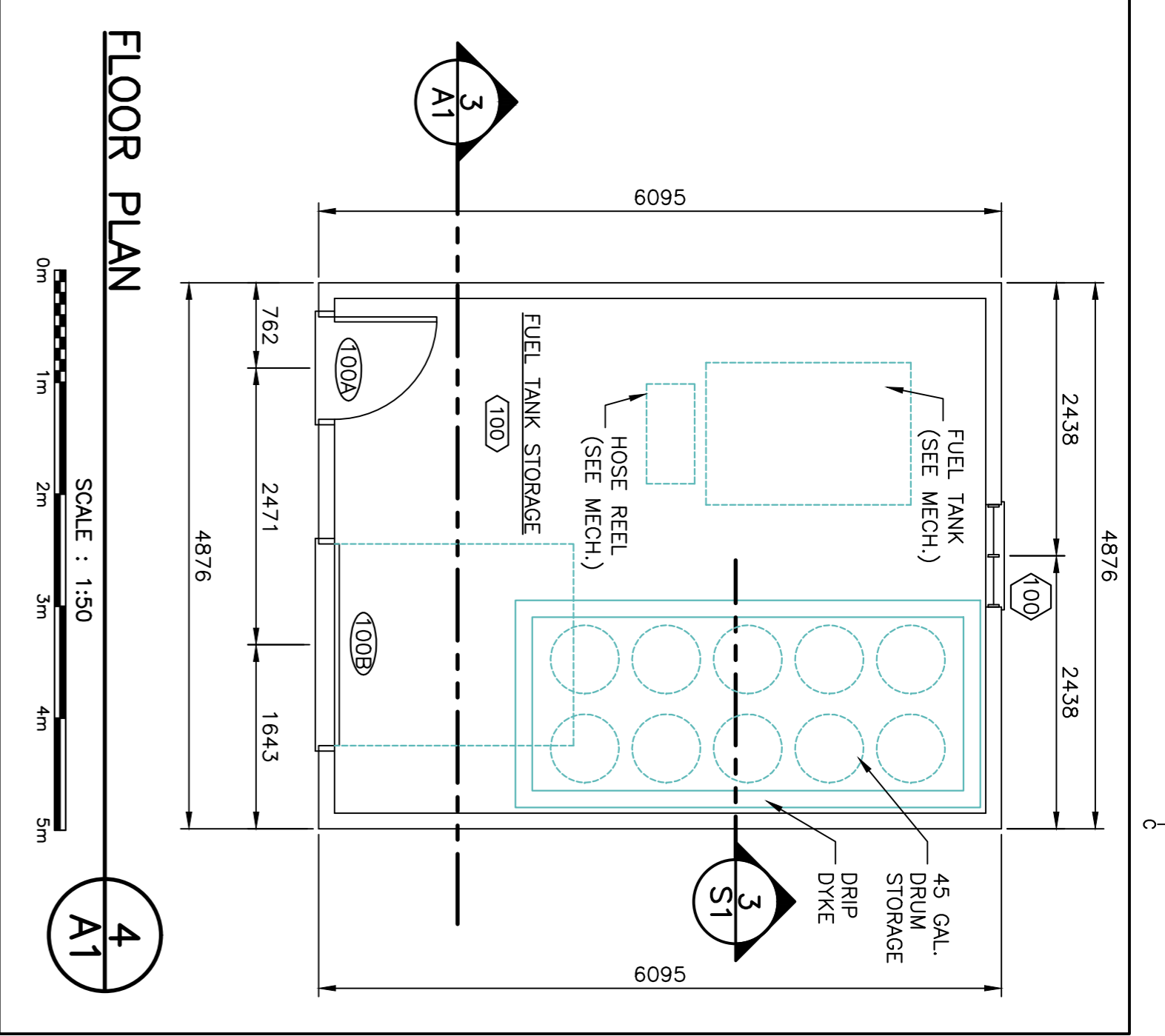
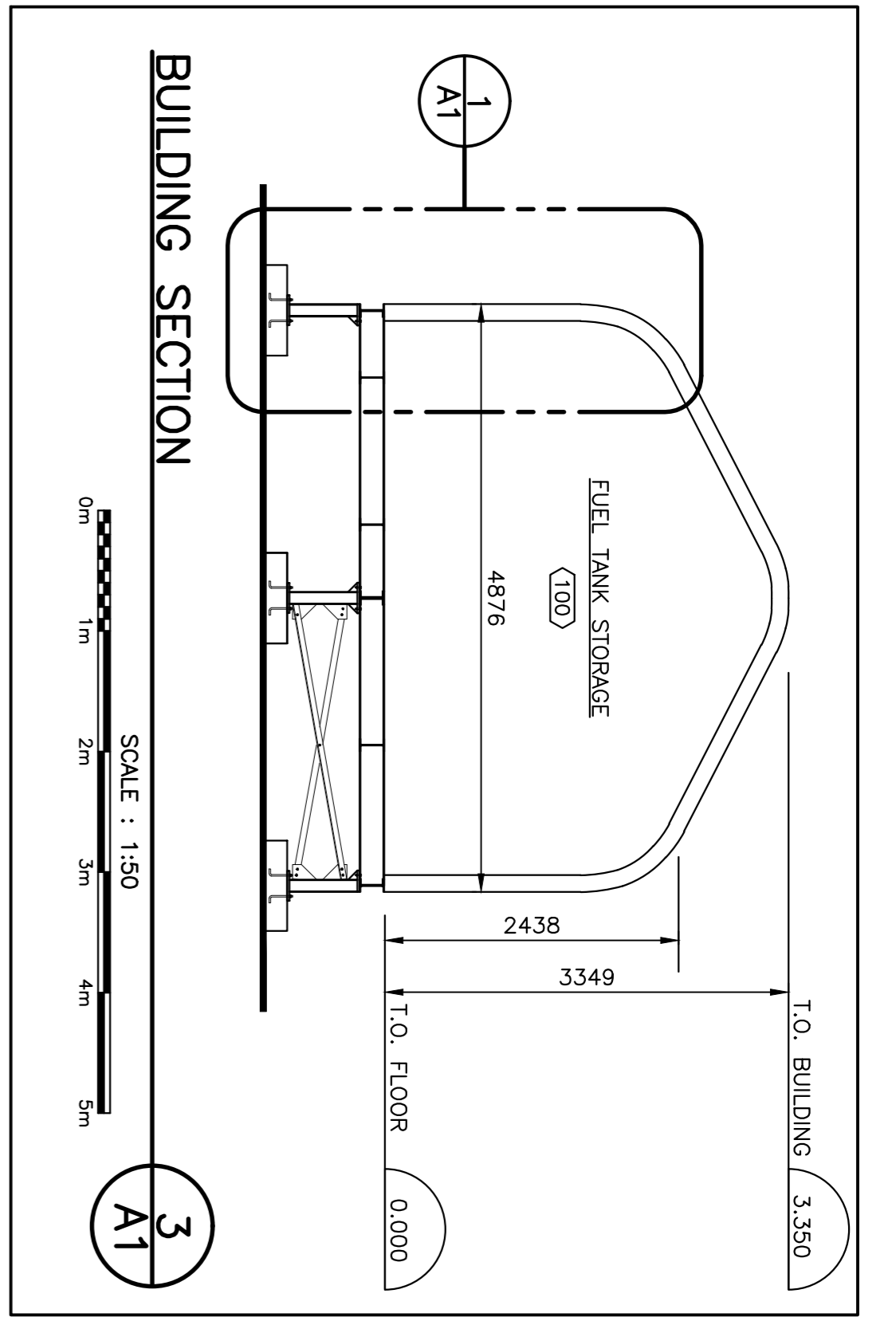
PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
CLASS "A" PERMIT
This Permit Allows
CORE ENGINEERING INC.
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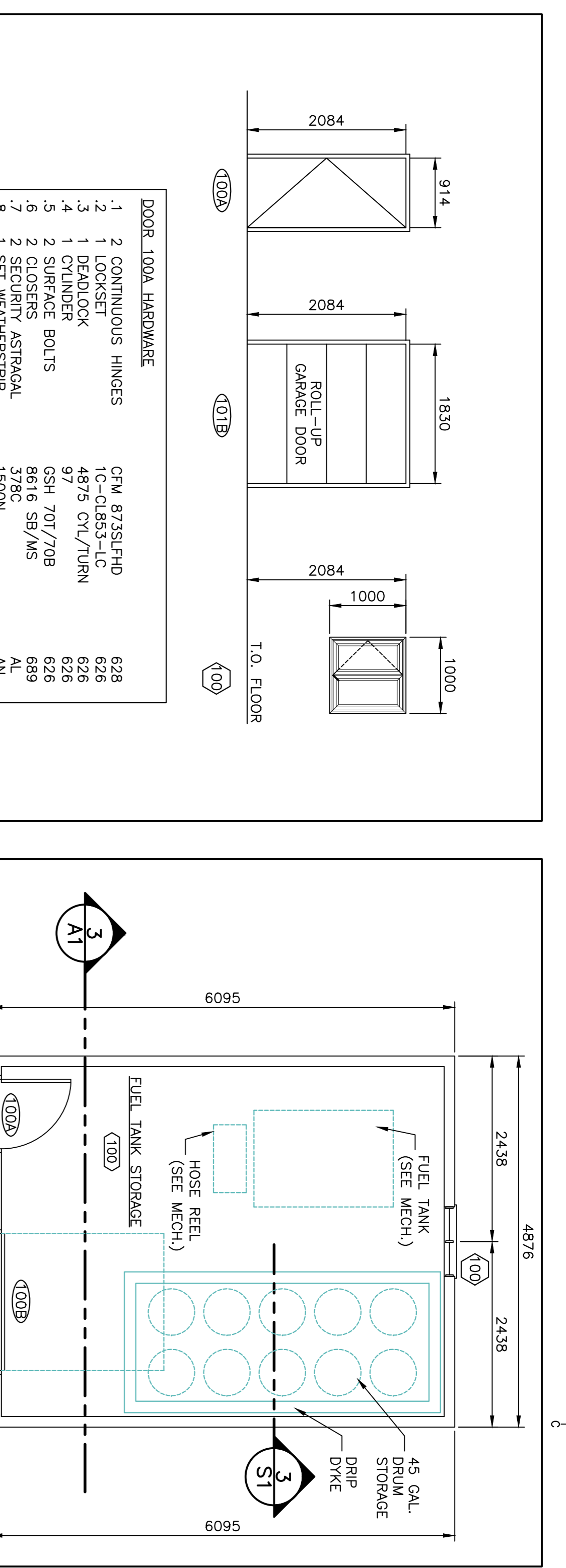
RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	

designed R.B./A.G.
date AUGUST 2017
drawn S.L.
date AUGUST 2017
approved R.B./A.G.
date NOVEMBER 2017

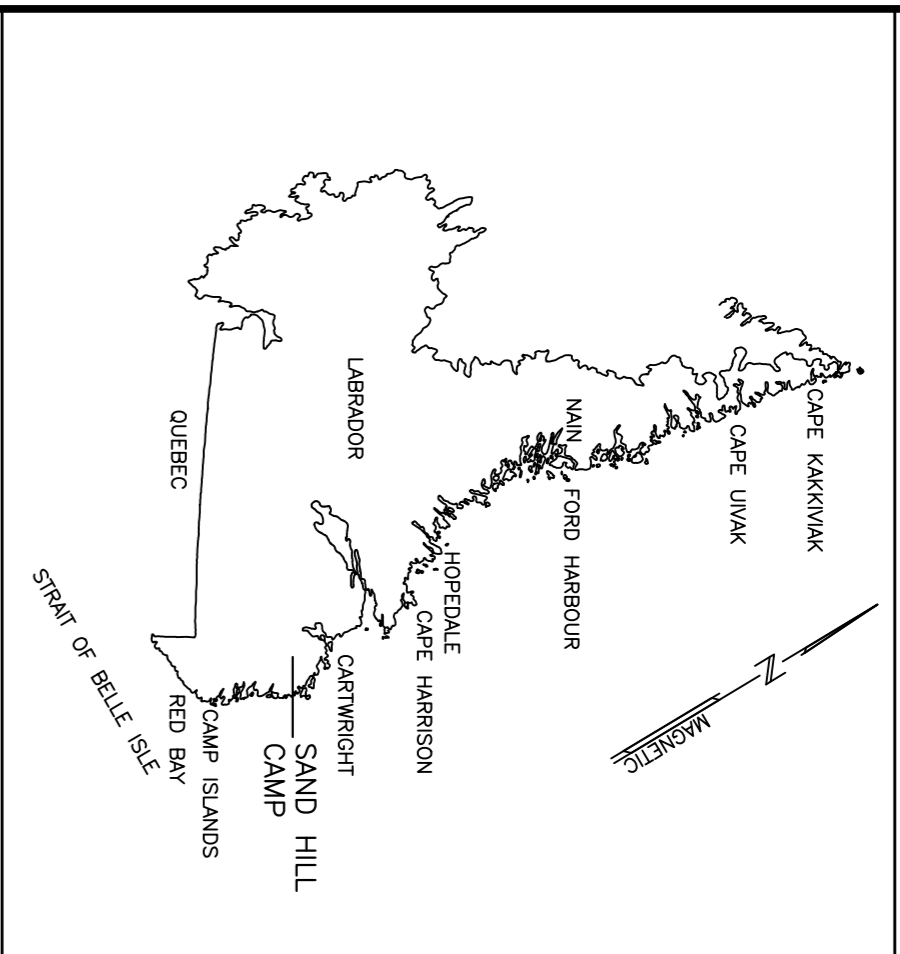
Project Manager
F6879-179218
13H0902A003A1



EXTERIOR ELEVATIONS



TYPICAL WALL SECTION



KEY LOCATION PLAN

PRIME CONSULTANT
CORE PROJECT #17-2730

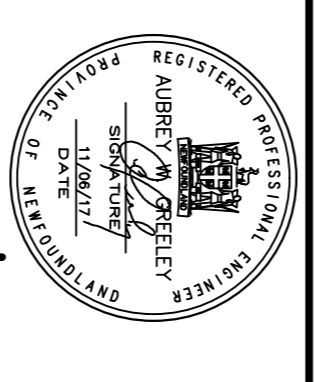
CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
2570-100th Avenue
Edmonton, Alberta T6A 0K4

SUB CONSULTANT
NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS - PROJECT MANAGERS

SOUND BAYER OFFICE P.O. BOX 400, ST. JOHN'S, ONTARIO
TEL: 709-738-4448 CLARENCE BAY OFFICE TEL: 709-738-2055
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e-mail: info@newlabengineering.ca

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PROVINCE OF NEWFOUNDLAND
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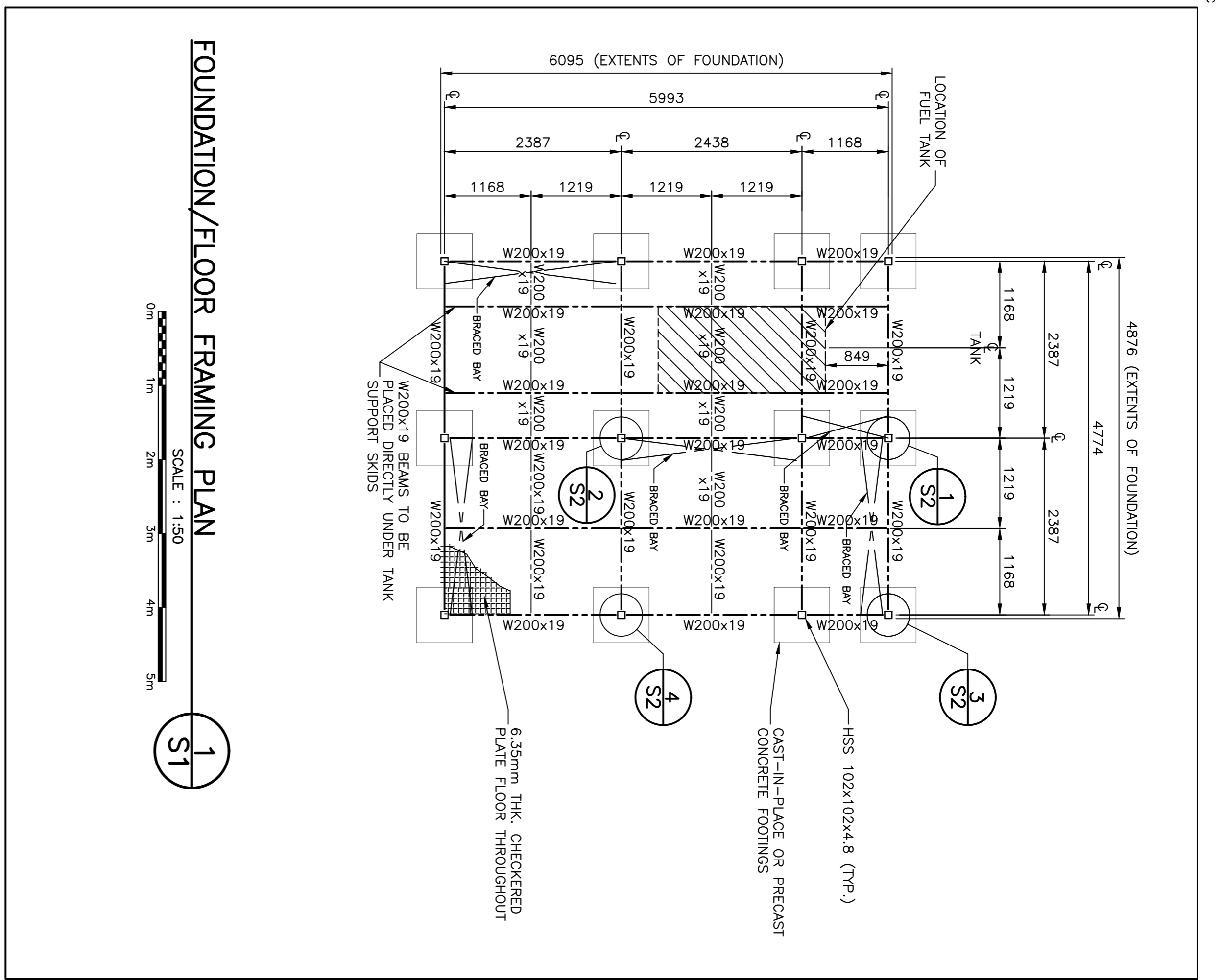


RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	project

drawing
design

**FOUNDATION/FLOOR FRAMING PLAN
& DETAILS**

designed	R.B./A.G.	conçu
date	AUGUST 2017	
drawn	S.L.	dessiné
date	AUGUST 2017	
approved	R.B./A.G.	approuvé
date	NOVEMBER 2017	
Tender		Submission
TRSCC Project Manager		Administrateur de projets TRSCC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003S1	no. du dessin



FOUNDATION/FLOOR FRAMING PLAN

SCALE : 1:50

0m 1m 2m 3m 4m 5m

1 S1

CONCRETE NOTES:

ALL WORK TO CAN/CSA - A23.1/A23.2

CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 25 MPa. MAXIMUM AGGREGATE SIZE OF 19mm, AIR ENTRAINMENT 4-7%, MAXIMUM SLUMP 75mm, EXPOSURE CLASS F2.

CARBON STEEL BARS FOR CONCRETE REINFORCEMENT TO CSA G30.18-09

REINFORCING STEEL MINIMUM YIELD STRENGTH 400 MPa

MINIMUM REINFORCEMENT SETBACKS:
- DEFORMED REBAR UP TO AND INCLUDING 20M:
- DEFORMED WIRE FABRIC:
- 32 BAR DIAMETERS, MINIMUM 300 mm

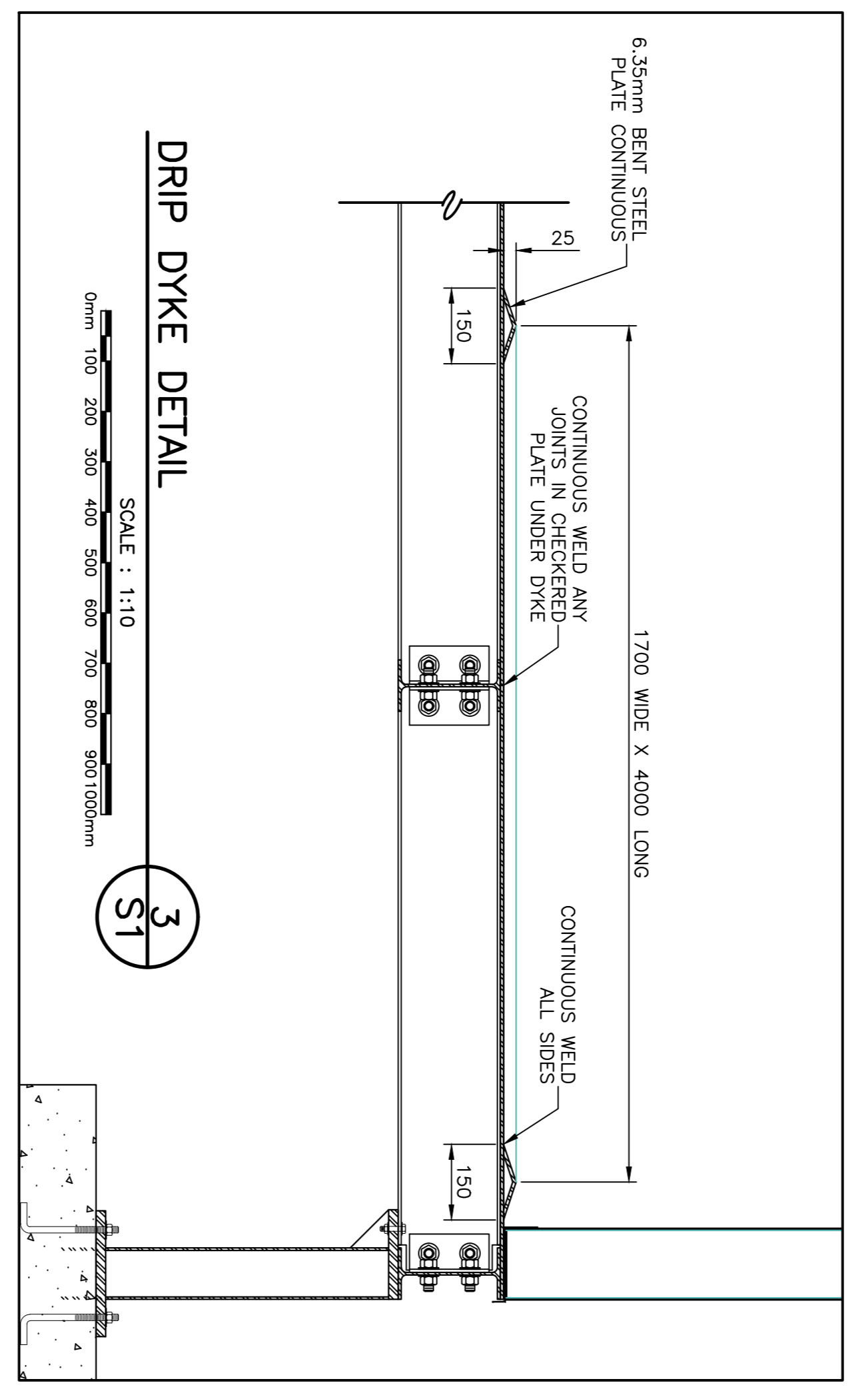
MINIMUM REINFORCEMENT COVER REINFORCEMENT 75mm FOOTINGS

MINIMUM SOIL BEARING PRESSURE 125 MPa

NO ROOF LOAD ALLOWED FOR IN DESIGN OF INTERIOR FOUNDATIONS

DO NOT PLACE FOOTINGS ON FROZEN GROUND

PROTECT CONCRETE FROM FREEZING FOR 24 HOURS AFTER POUR

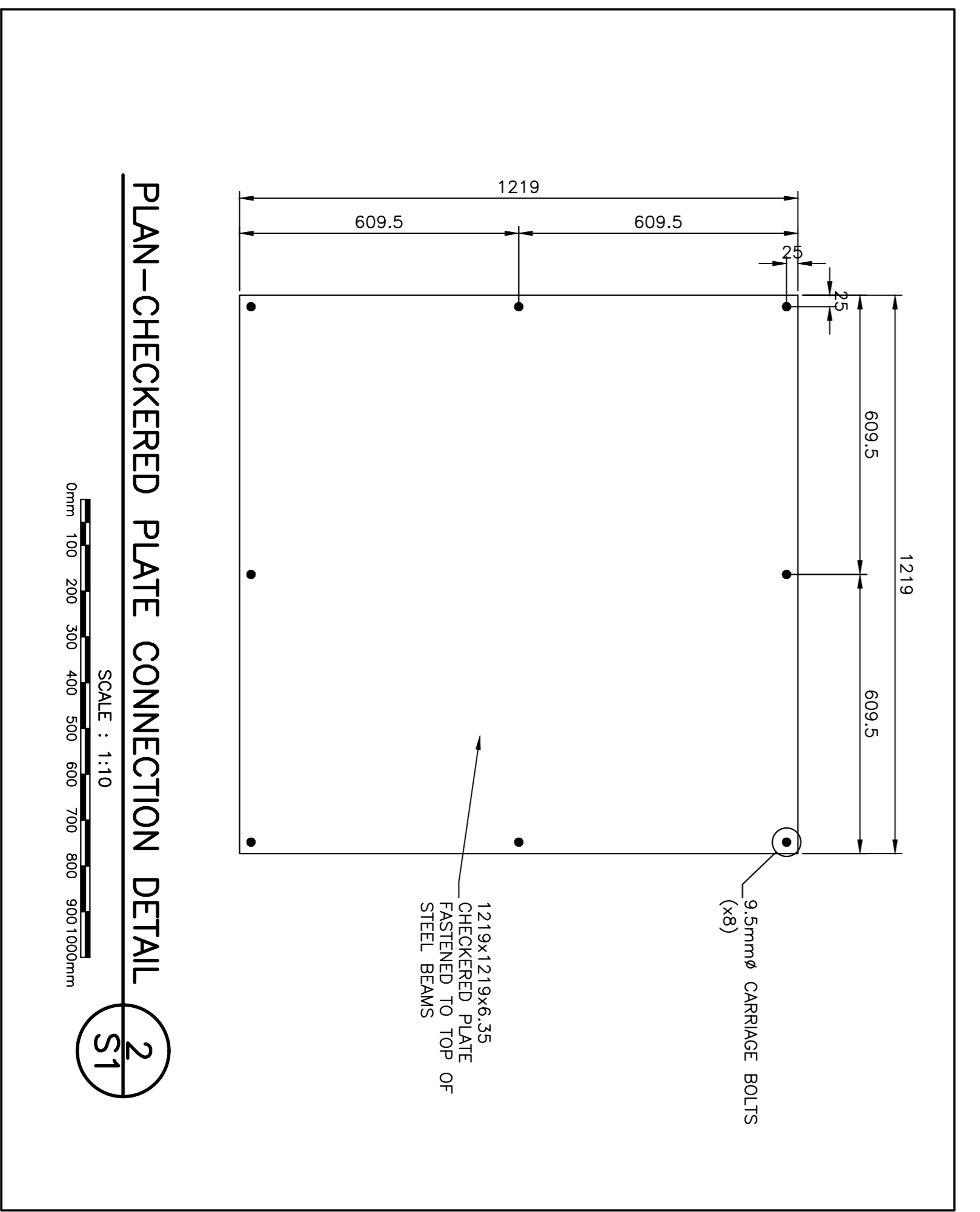


DRIP DYKE DETAIL

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

3 S1

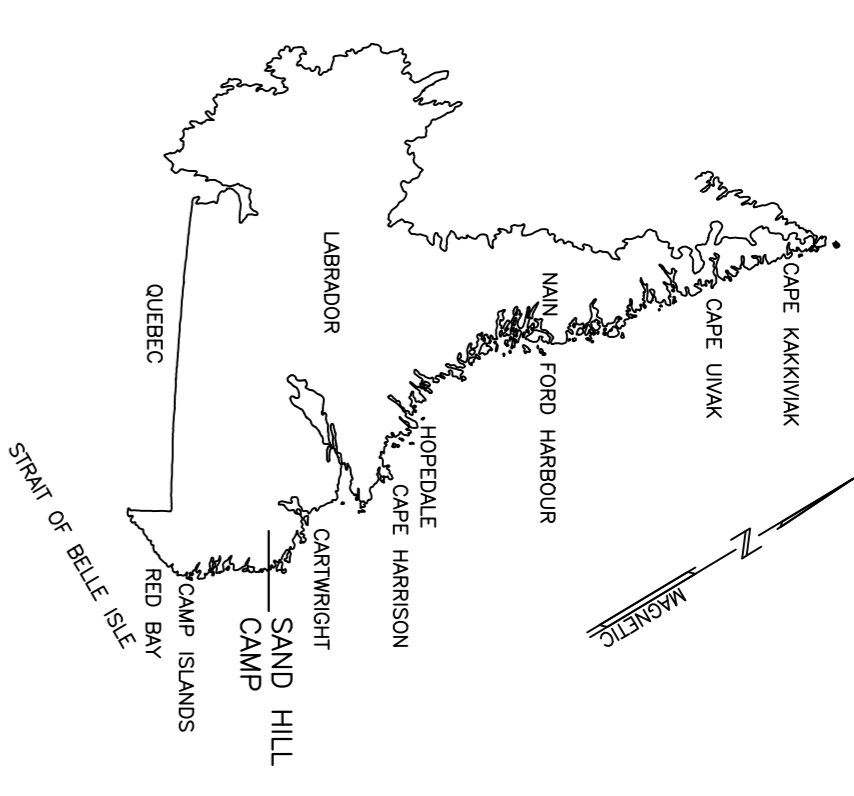


PLAN-CHECKERED PLATE CONNECTION DETAIL

SCALE : 1:10

0mm 100 200 300 400 500 600 700 800 900 1000mm

2 S1



KEY LOCATION PLAN

PRIME CONSULTANT CORE PROJECT #17-2730

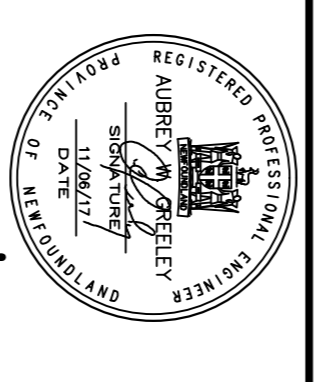
CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
2500-100th Avenue
Edmonton, Alberta T6A 0K4

NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS - PROJECT MANAGERS

3500, BIVER OFFICE P.O. BOX 400, ST. JOHN'S OFFICE
ST. JOHN'S, NL A1A 1W0 TEL: 709-738-2055
709-785-4448 CHARLES BETHA, P. ENG. 709-738-2066
709-785-4140 N.L. ADAI TEL: 709-738-2066
e-mail: info@newlabengineering.ca

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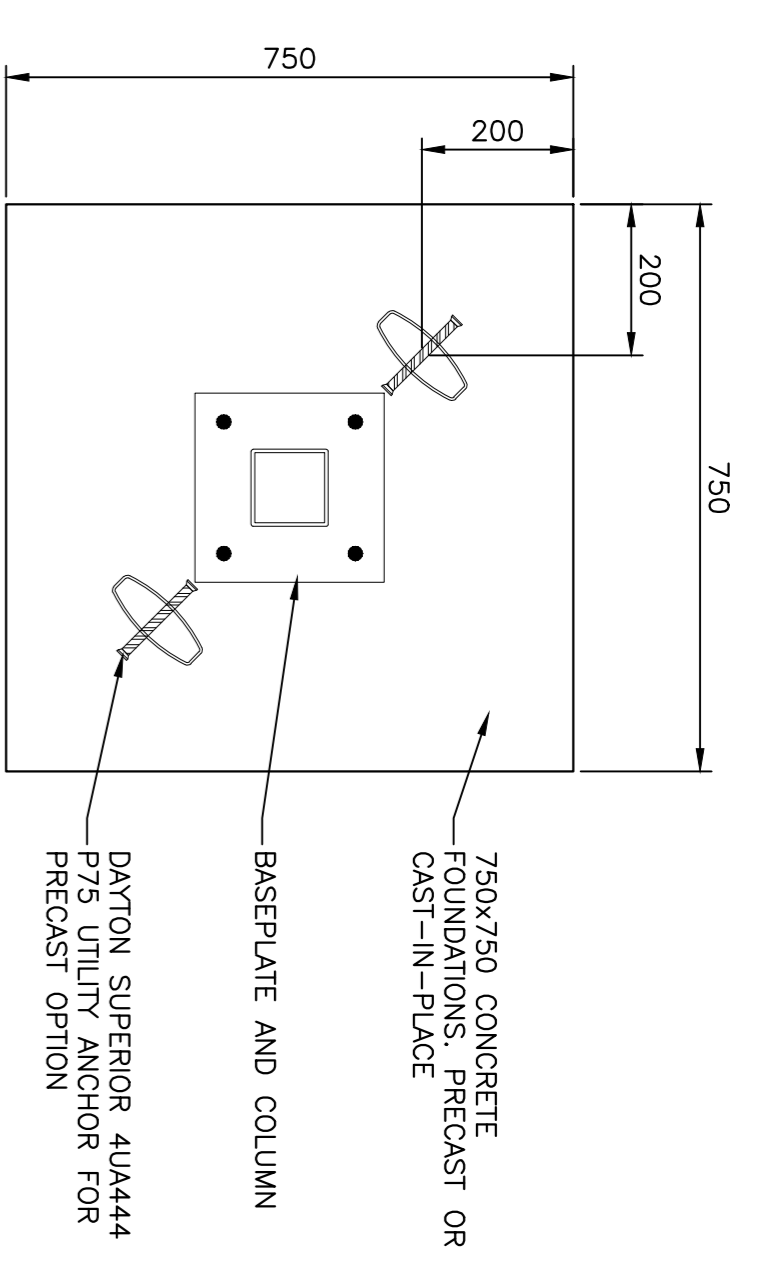
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RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	project

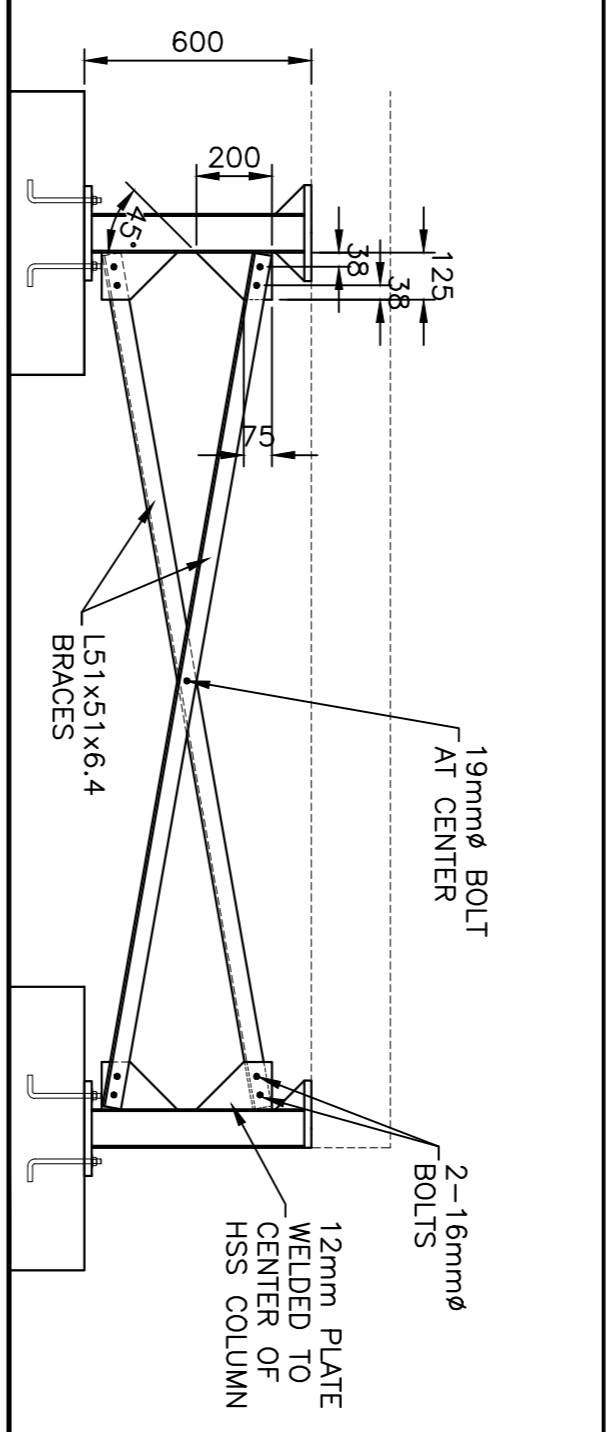
DETAILS

designed	R.B./A.G.	compu
date	AUGUST 2017	date
drawn	S.L.	dessiné
date	AUGUST 2017	date
approved	R.B./A.G.	approuvé
Tender	NOVEMBER 2017	date
PMSCC Project Manager	Administrateur de projets TPSCC	no. du projet
project number	F6879-179218	no. du dessin
drawing no.	13H0902A003S2	



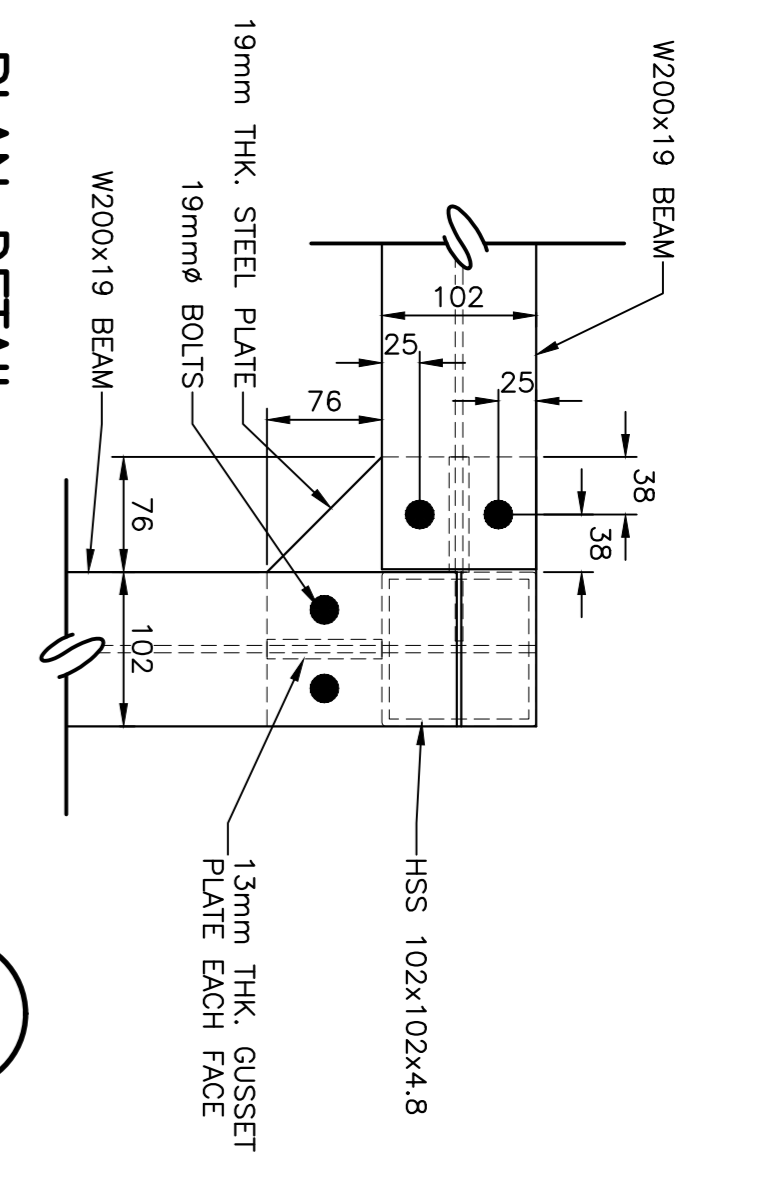
LIFT ANCHORS FOR PRECAST FOOTING OPTION

SCALE : 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



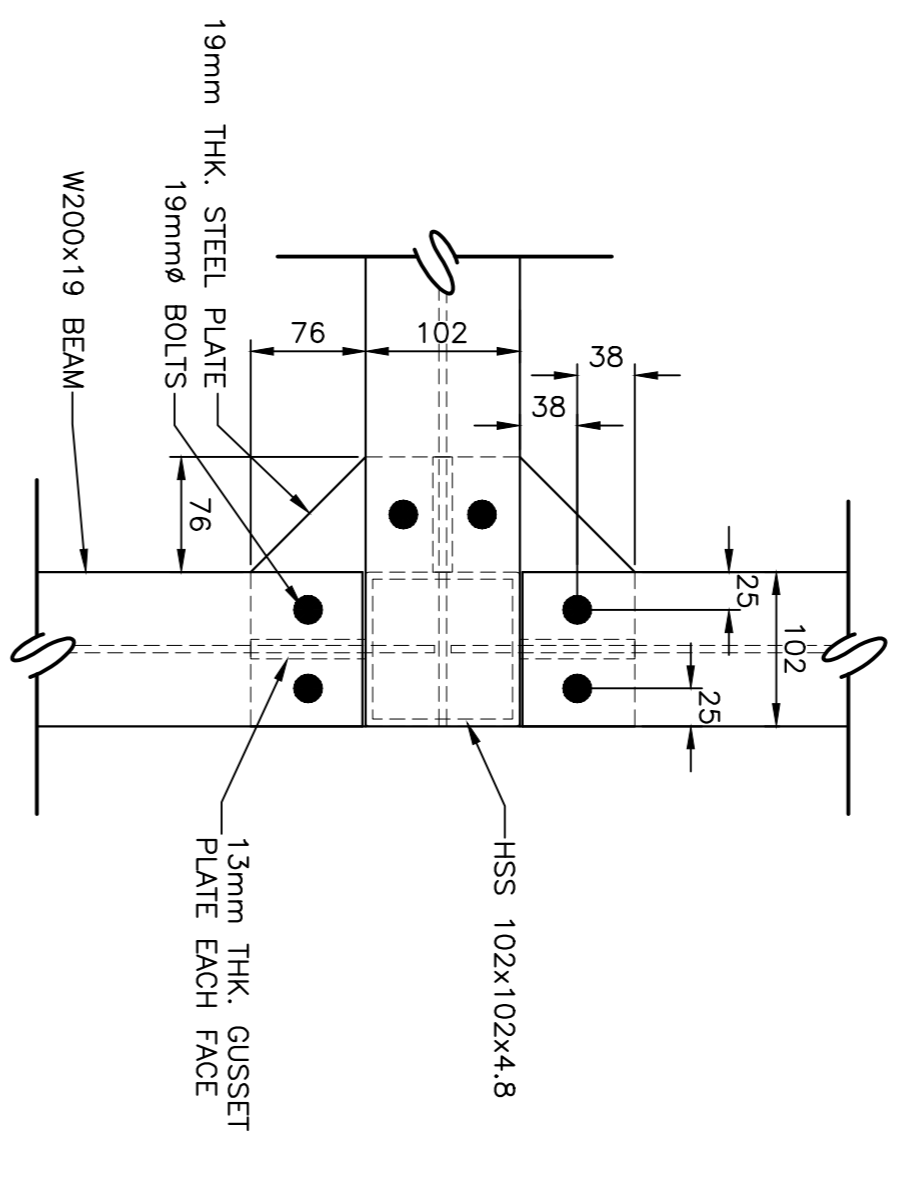
TYPICAL BRACED BAY DETAIL

8 S2



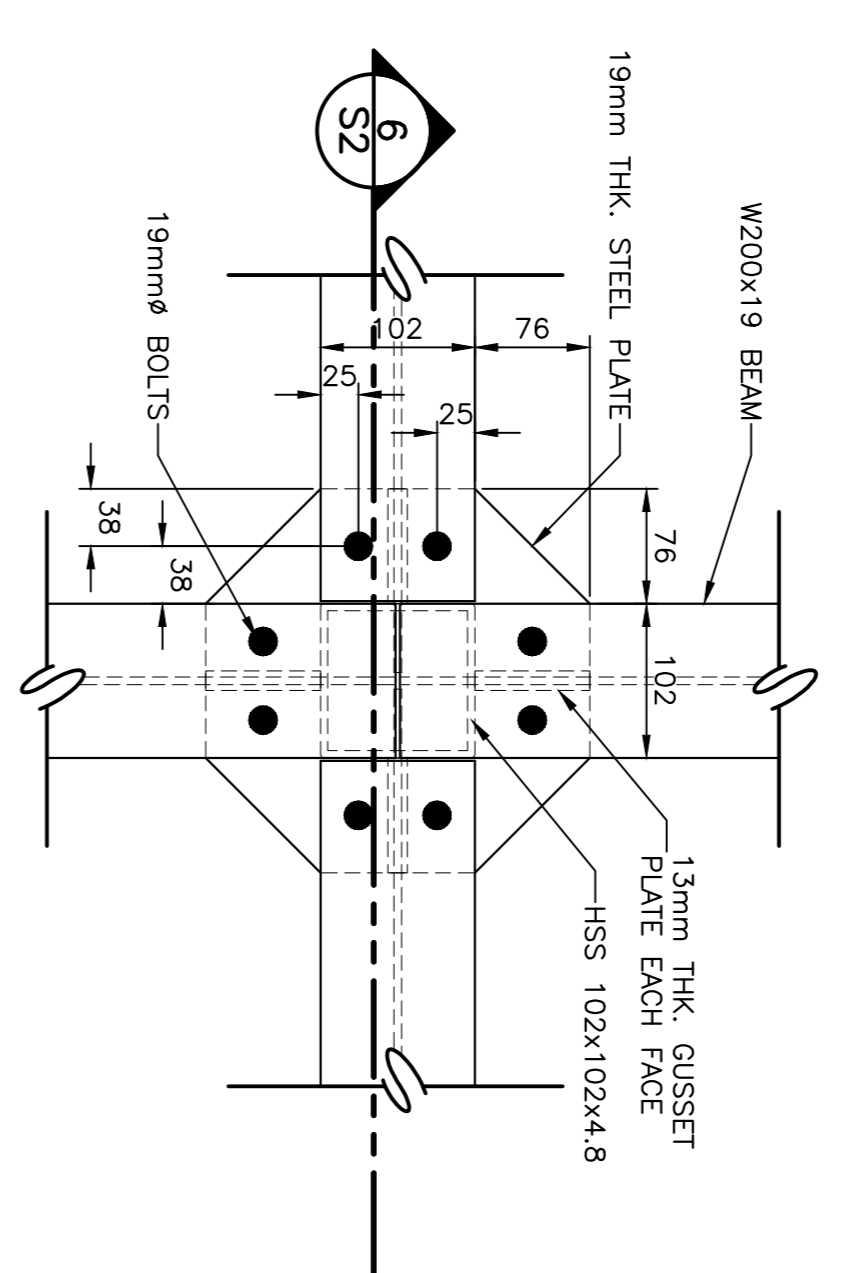
PLAN DETAIL

1 S2



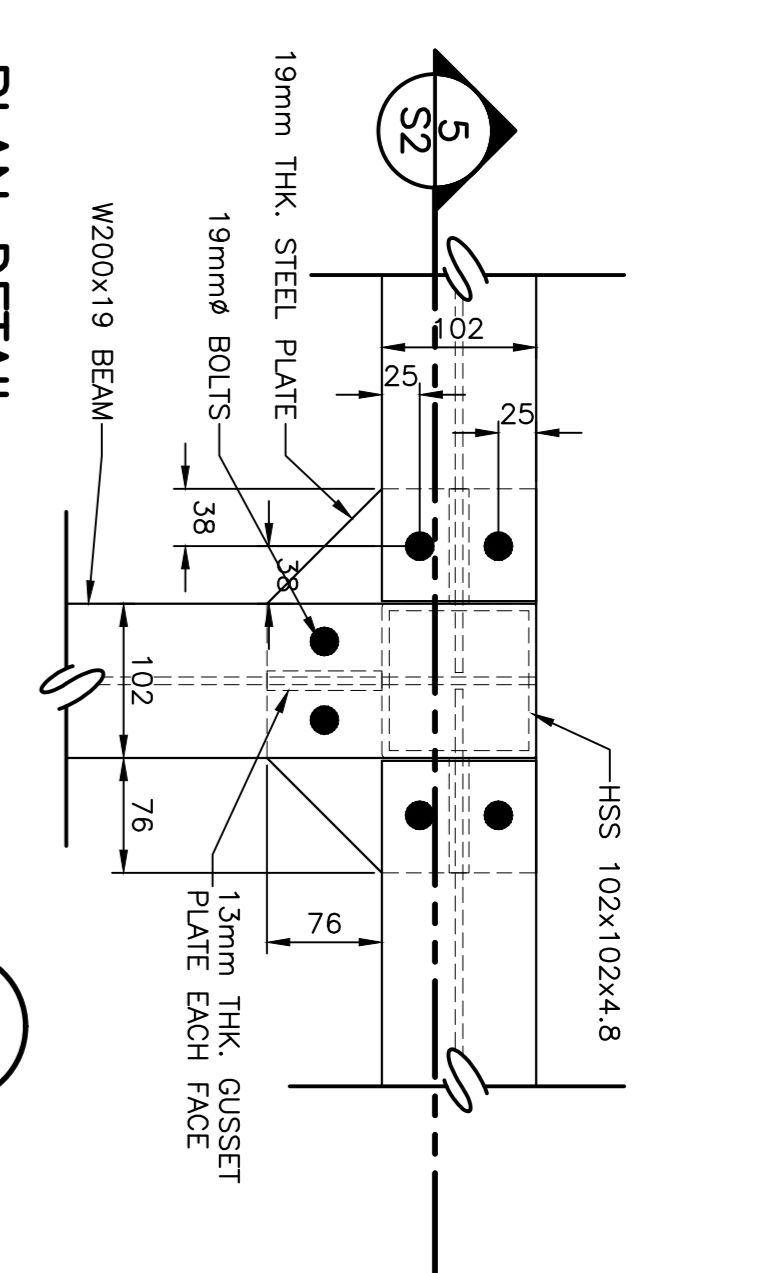
PLAN DETAIL

4 S2



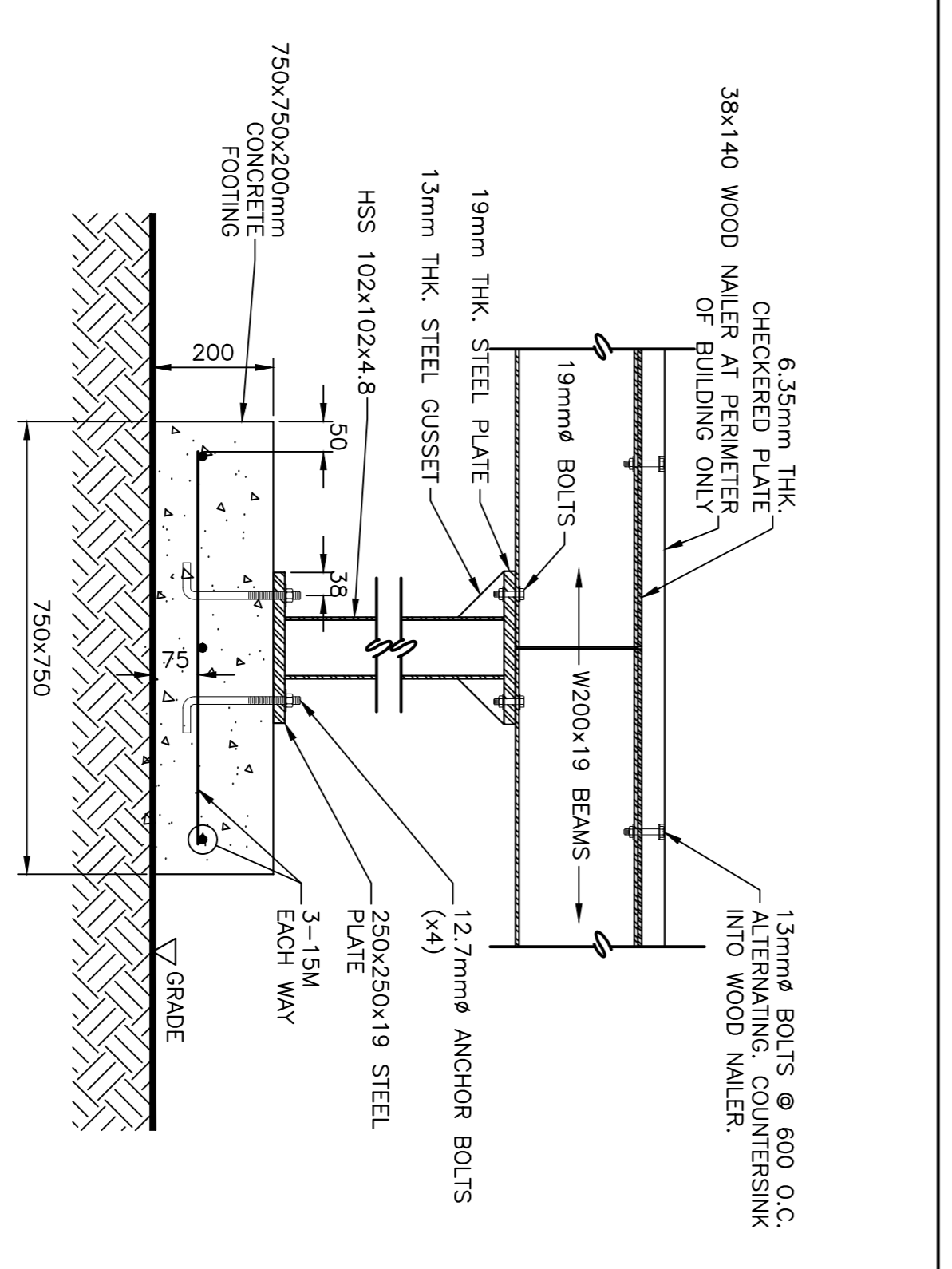
PLAN DETAIL

2 S2



PLAN DETAIL

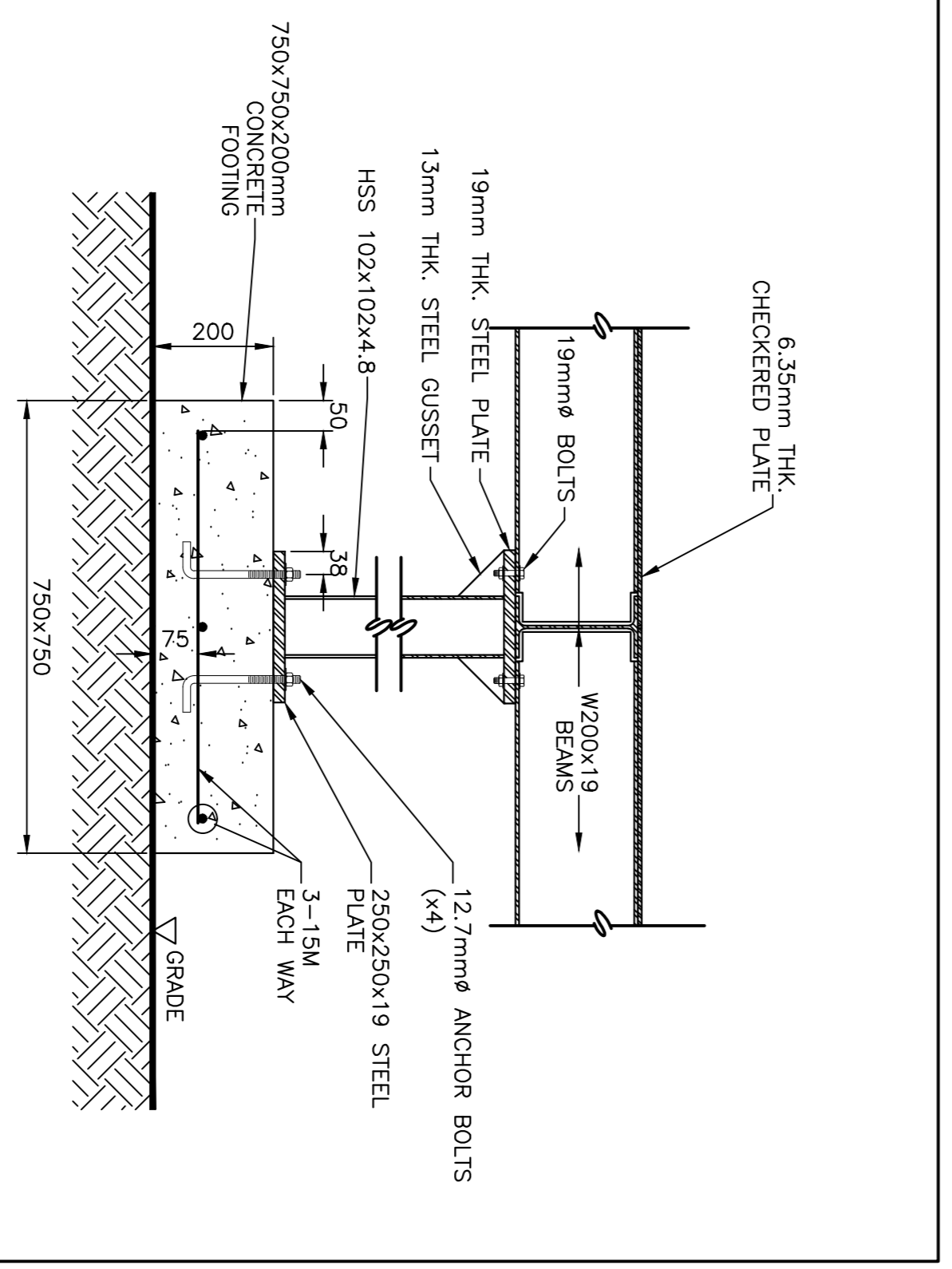
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SECTION AT VERTICAL SUPPORTS

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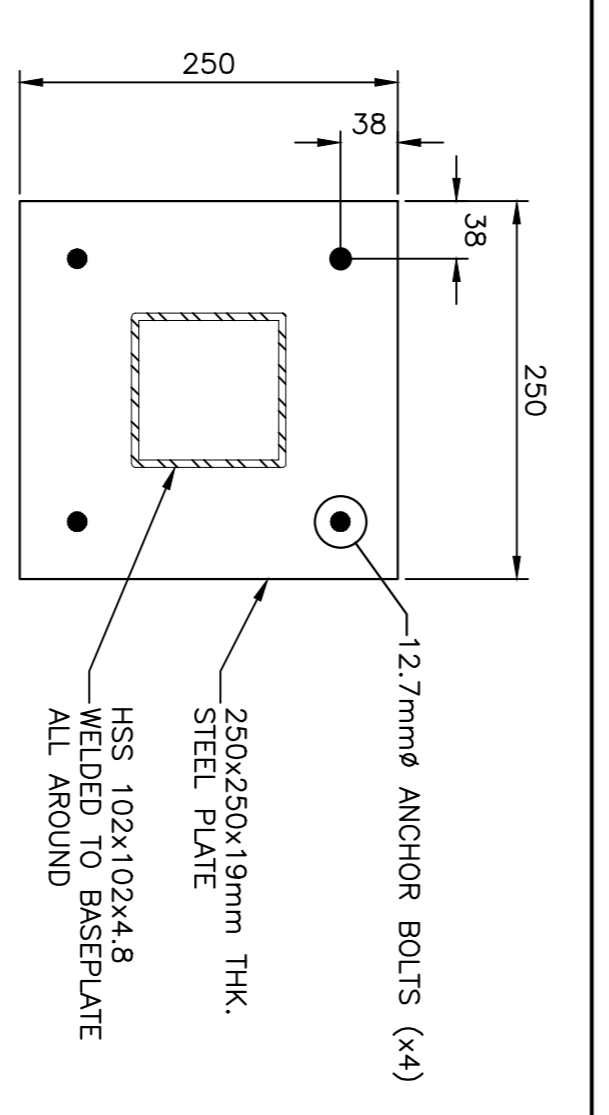
5 S2



SECTION AT VERTICAL SUPPORTS

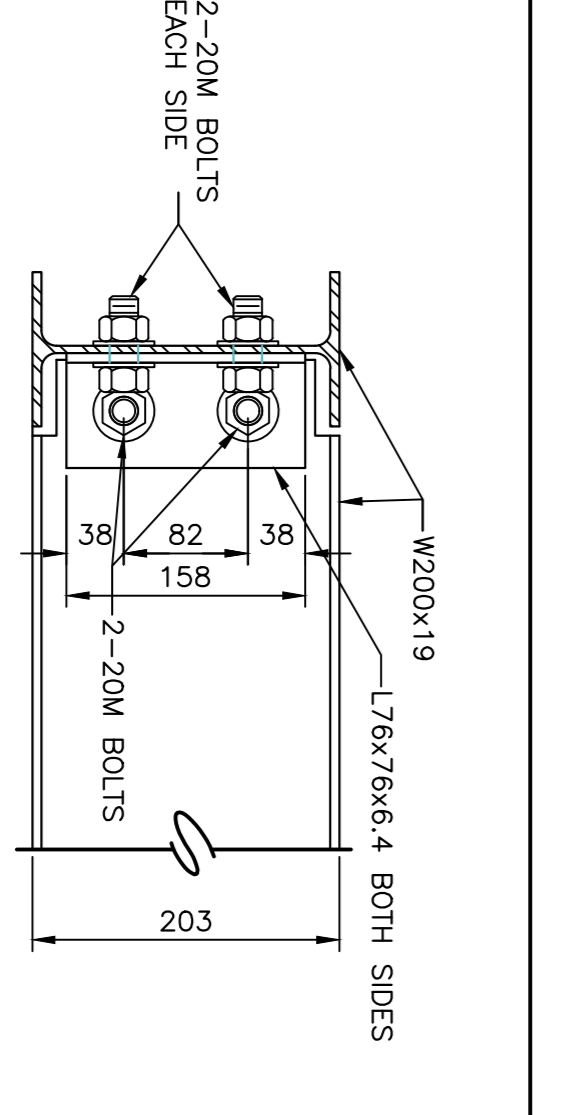
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6 S2



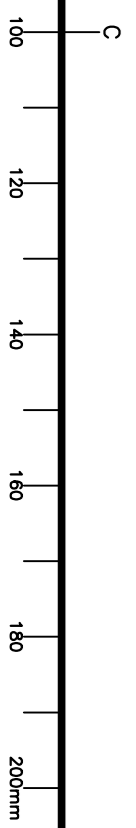
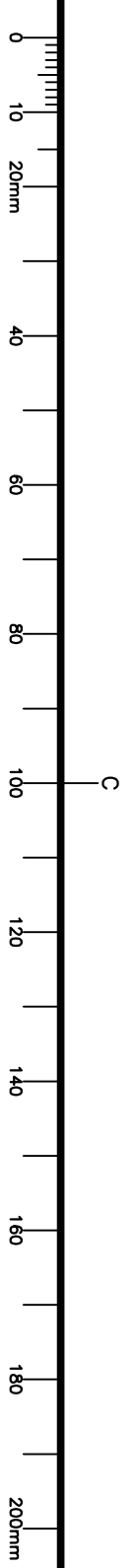
TYPICAL BASEPLATE DETAIL

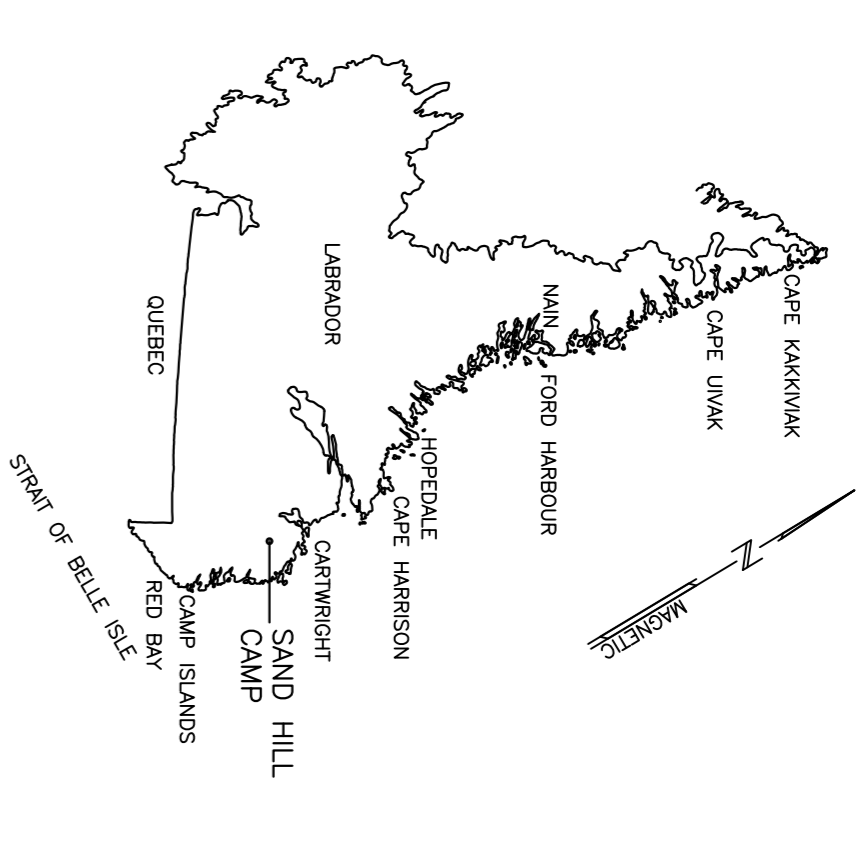
9 S2



TYPICAL BEAM TO BEAM CONNECTION DETAIL

10 S2





KEY LOCATION PLAN

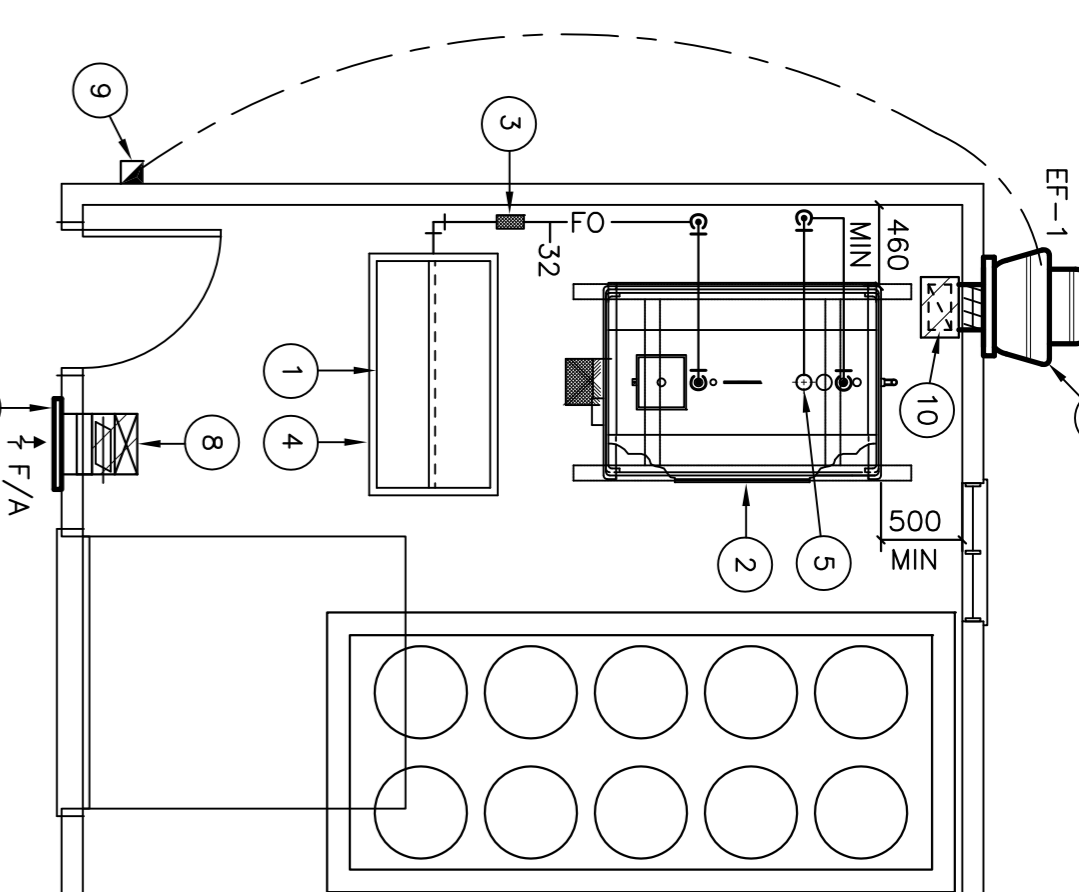
PRIME CONSULTANT
CORE PROJECT #17-2730
CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
1800-222-2441
1400-1000-1000

SUB CONSULTANT
NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS - PROJECT MANAGERS
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FAX: 709-735-4140 NL, ADA, 1W0 FAX: 709-735-2066
e-mail: info@newlabengineering.ca

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PERMIT HOLDER
CORE ENGINEERING INC.
To produce Professional Engineering Plans and Reports under the authority of the Professional Engineers Act, 2009, which is valid for the year 2017.

RO	ISSUED FOR TENDER	NOV/06
revisions		date
project	FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR	project
designer	B.E.	designé
date	AUGUST 2017	compu
drawn	S.D.	dessiné
date	AUGUST 2017	
approved	B.E.	approuvé
date	AUGUST 2017	
Tender		Submission
PM/SC Project Manager		Administrateur de projets TPSC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003H1	no. du dessin

- DRAWING NOTES:**
- FUEL DISPENSER, SEE DETAIL. (H1)
 - 2272L FUEL STORAGE TANK, FOR DESCRIPTION SEE SPEC. AND DETAIL. (H1)
 - PROVIDE 200mm LONG STAINLESS STEEL FLEXIBLE CONNECTOR, LINE SIZE, SHALL BE APPROVED FOR USE WITH FUEL. (H1)
 - 40mm DEEP STAINLESS STEEL DRIP PAN OF WELDED CONSTRUCTION, SEE DETAIL. (H1)
 - 50mm VENT UP TO ROOF, INCREASE TO 75 mm Ø GOOSENECK AND SCREEN. (H1)
 - WALL MOUNTED EXHAUST FAN, MOUNT AS HIGH AS POSSIBLE FOR DESCRIPTION SEE SCHEDULE AND DETAIL. (H2)
 - 400/400 F/A LOUVER, "VENTEX" No. 2630 OR APPROVED EQUAL, FOR DESCRIPTION SEE SPEC AND DETAIL. (H2)
 - 400/150 THERMALLY INSULATED F/A DUCT TO TURN DOWN & TERMINATE OPEN ENDED 450mm A.E.F. C/W 25mm MESH. (H2)
 - MANUAL STARTER, SHALL BE RATED FOR EXTERIOR INSTALLATION. (H2)
 - 300/150 EXHAUST AIR DUCT UP & DOWN C/W BALANCING DAMPER, INSTALL 300/150 DUCT OPEN ENDED 600mm ABOVE PLENUM, FOR DESCRIPTION SEE DETAIL. (H2)



FLOOR PLAN - FUEL STORAGE SHED

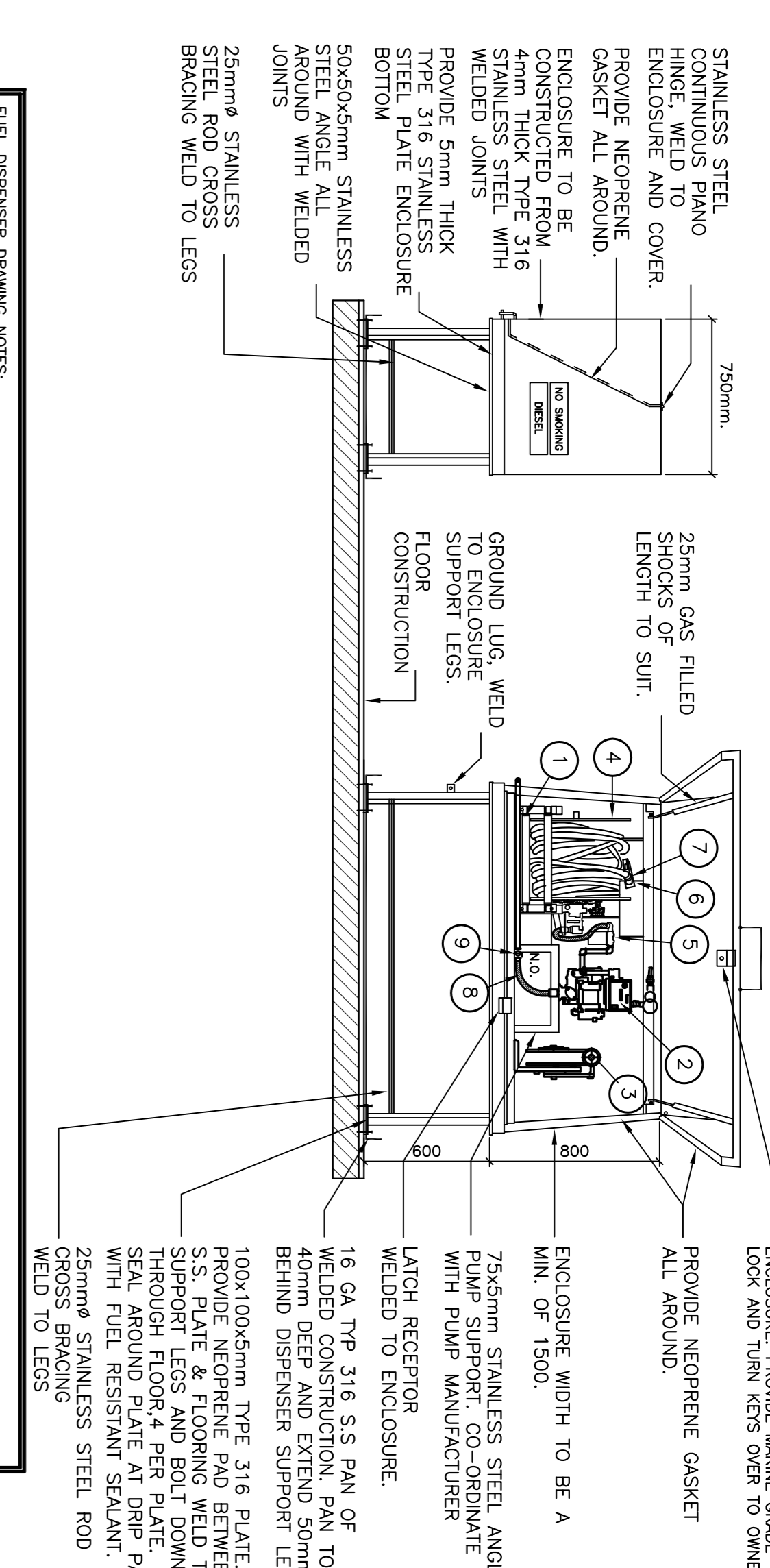
SCALE : 1:50

- DRAWING NOTES:**
- EXISTING 910 LITRE ABOVE GROUND DYKED FUEL TANK C/W REMAINING FUEL TO BE REMOVED FROM SITE AND DISPOSED OFF IN AN APPROVED MANNER, PROVIDE A CERTIFICATE OF DISPOSAL.
 - EXISTING 2300 LITRE ABOVE GROUND DYKED FUEL TANK C/W REMAINING FUEL TO BE REMOVED FROM SITE AND DISPOSED OFF IN AN APPROVED MANNER, PROVIDE A CERTIFICATE OF DISPOSAL.
 - EXISTING HOSE REEL & SUPPORT AND ALL HOSE C/W FITTINGS TO BE REMOVED AND STORED IN NEW SHED FOR OWNERS FUTURE USE.
 - EXISTING FUEL PUMP TO BE REMOVED FROM TANK AND STORED IN NEW STORAGE SHED FOR OWNERS FUTURE USE.



SITE PLAN - MECHANICAL

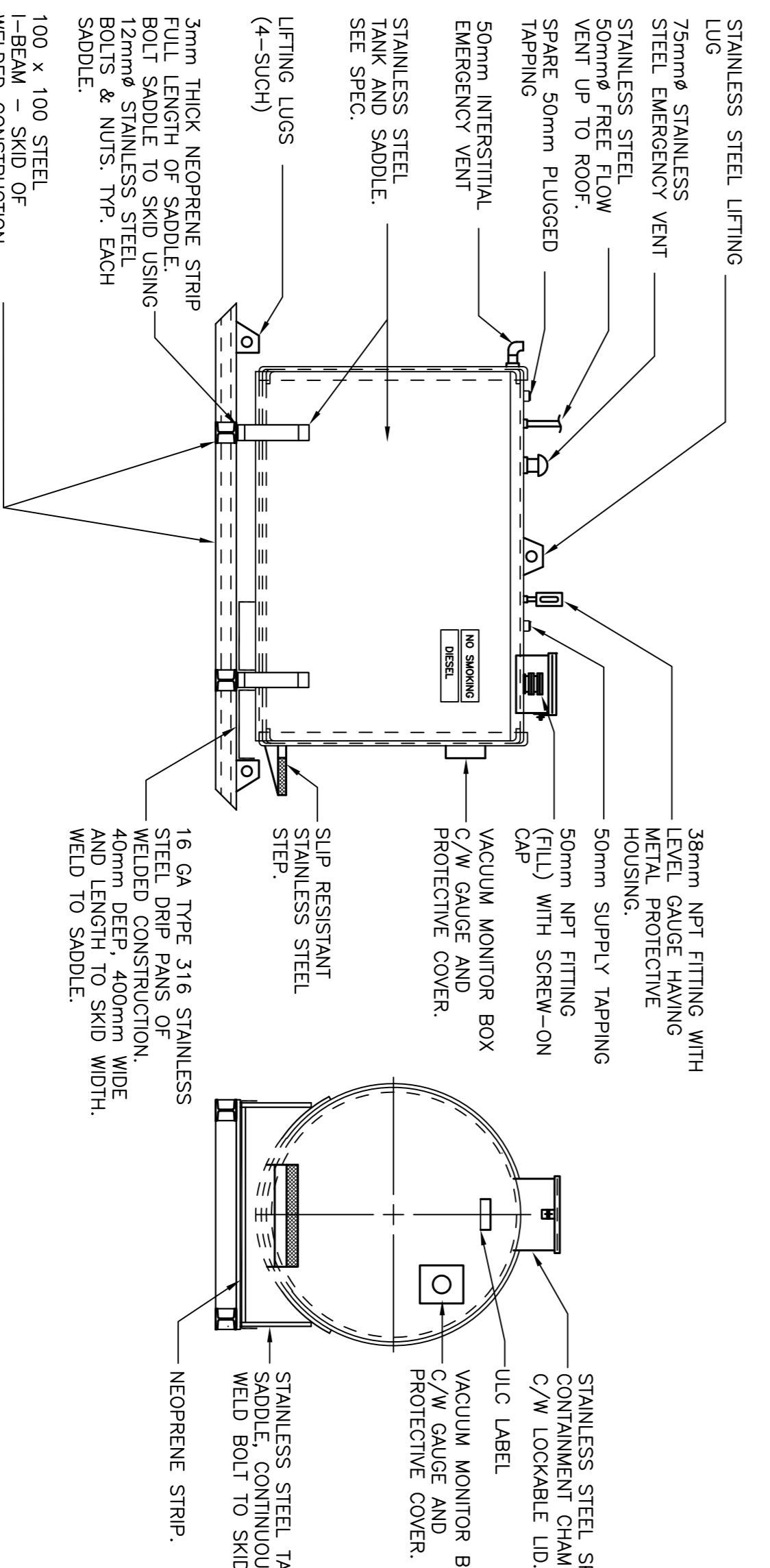
SCALE : 1:100



- FUEL DISPENSER DRAWING NOTES:**
- "HANNA" NO. V-6030-23-24-SS OR EQUAL OF TYPE 316 STAINLESS STEEL MANUAL REWIND HOSE REEL C/W TYPE 316 STAINLESS STEEL HUB, 25mmØ FEMALE SUPER SWIVEL JOINT, BUVA N SEALS, 25mmØ FEMALE NPT RISER, MODEL C2 STAINLESS STEEL ROLLER ASSEMBLY AND REMOVED WITH REMOVABLE CRANK HANDLE, PROVIDE REDUCERS AS NECESSARY FOR 20mmØ HOSE CONNECTIONS.
 - "GP" NO. M-3120/MRS-30 OR EQUAL 12 VOLT ELECTRIC PUMP RATED AT 57 LITERS/MIN WITH 1/3 H.P. EXPLOSION PROOF MOTOR, MOUNTING ADAPTER, 25mmØ INLET AND OUTLET, DISCHARGE VACUUM BREAKER.
 - "HANNA" NO. MHGR100 OR EQUAL GROUNDING REEL NON-SPARKING RATCHET ASSEMBLY STAINLESS STEEL WITH 30 METERS OF STAINLESS STEEL GROUNDING CABLE WITH CLAMP AND ADJUSTABLE GUIDE ARM AND STOP, SECURE TO BOTTOM OF ENCLOSURE.

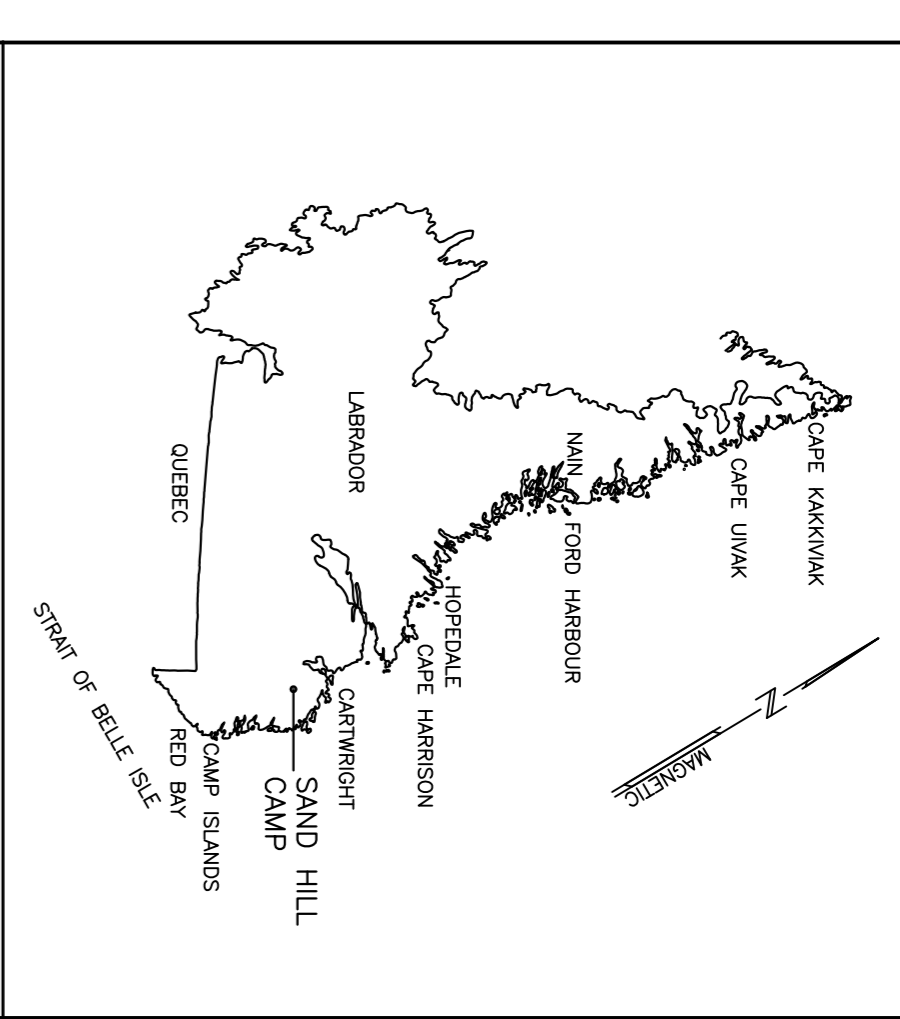
FUEL DISPENSER /ENCLOSURE DETAIL

SCALE: N.T.S.



2270 LITER FUEL STORAGE TANK DETAIL

SCALE: N.T.S.



PRIME CONSULTANT
CORE PROJECT #17-2730
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SUB CONSULTANT
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TEL: 709-738-4448 FAX: 709-738-2056
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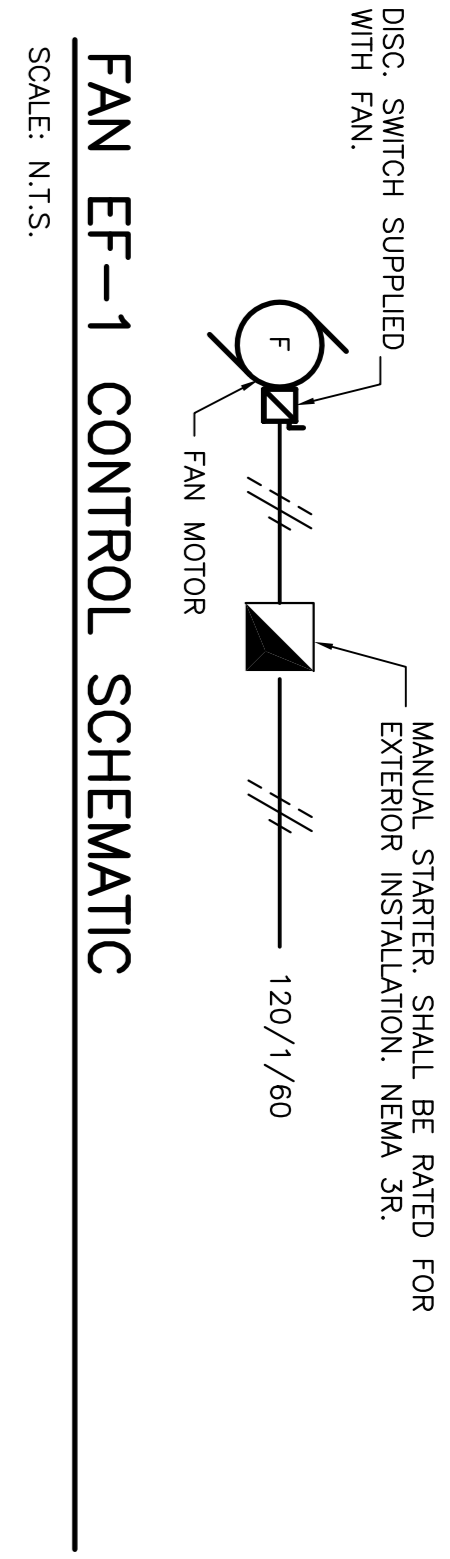
PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEISA PERMIT HOLDER
CORE ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador, this Permit allows which is valid for the year 2017.
REGISTERED PROFESSIONAL ENGINEER
HAROLD E. FOWLER
NOV 17 2017
PROFESSIONAL ENGINEERS ASSOCIATION OF NEWFOUNDLAND

RO	ISSUED FOR TENDER	NOV/06
revisions		date
project		project

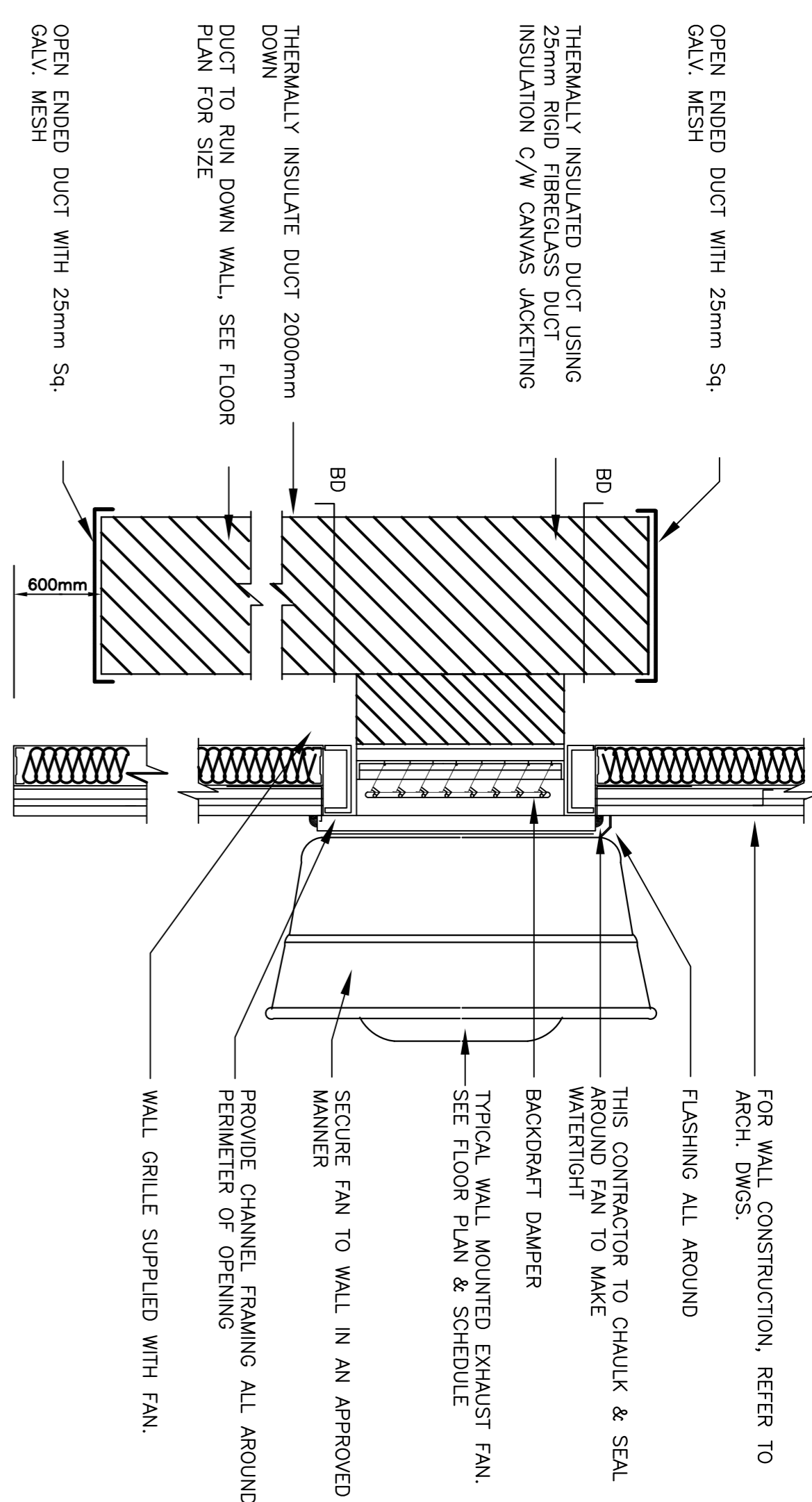
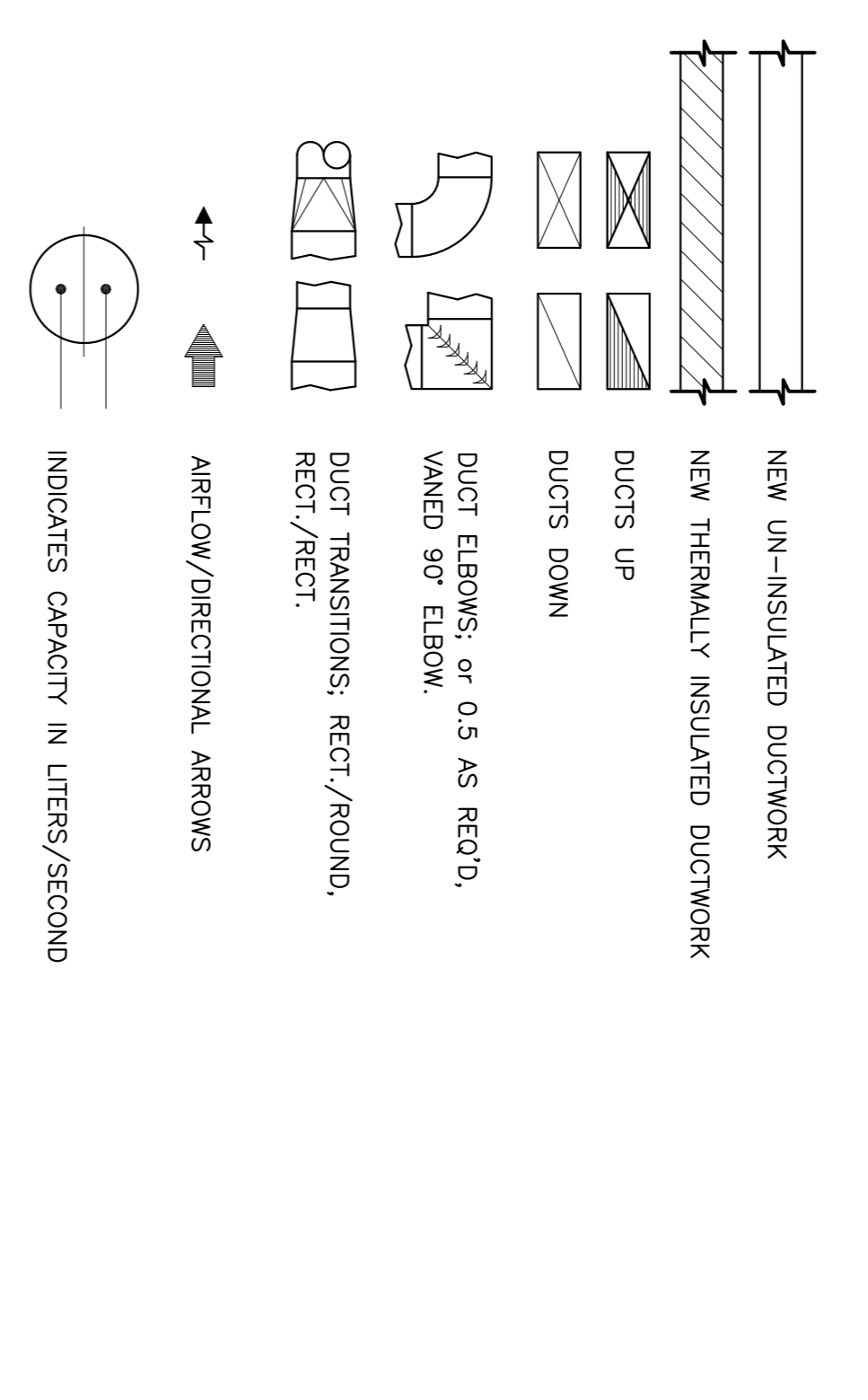
FUEL TANK UPGRADES
SANDHILL RIVER, LABRADOR

MECHANICAL DETAILS, SCHEDULE,
CONTROL SCHEMATICS
& LEGEND

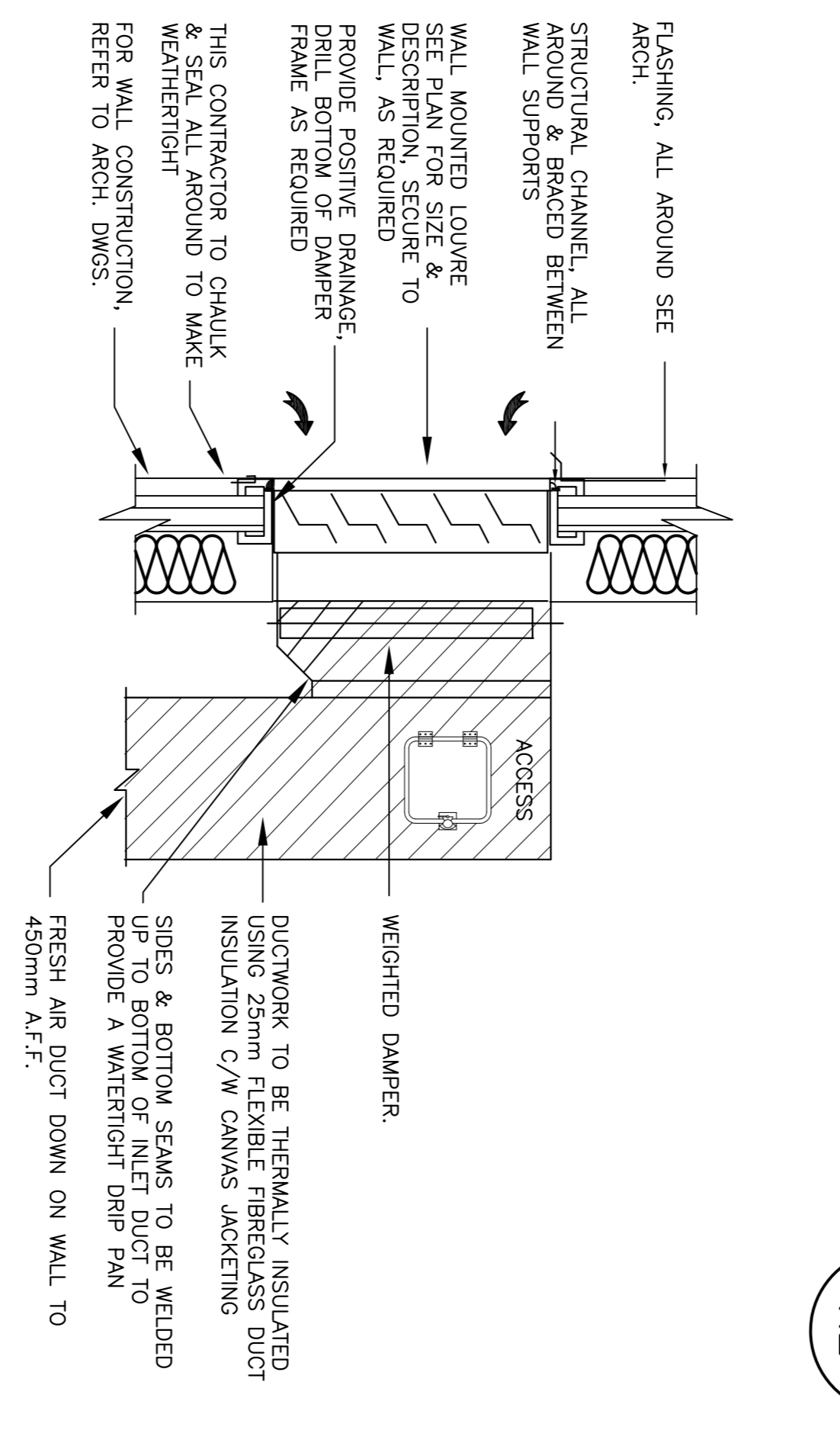
designed	B.E.	compu
date	AUGUST 2017	
drawn	S.D.	dessiné
date	AUGUST 2017	
approved	B.E.	approuvé
date	AUGUST 2017	
Tender		Submission
PMSCS Project Manager		Administrateur de projets TRSCC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003H2	no. du dessin



FAN EF-1 CONTROL SCHEMATIC
SCALE: N.T.S.



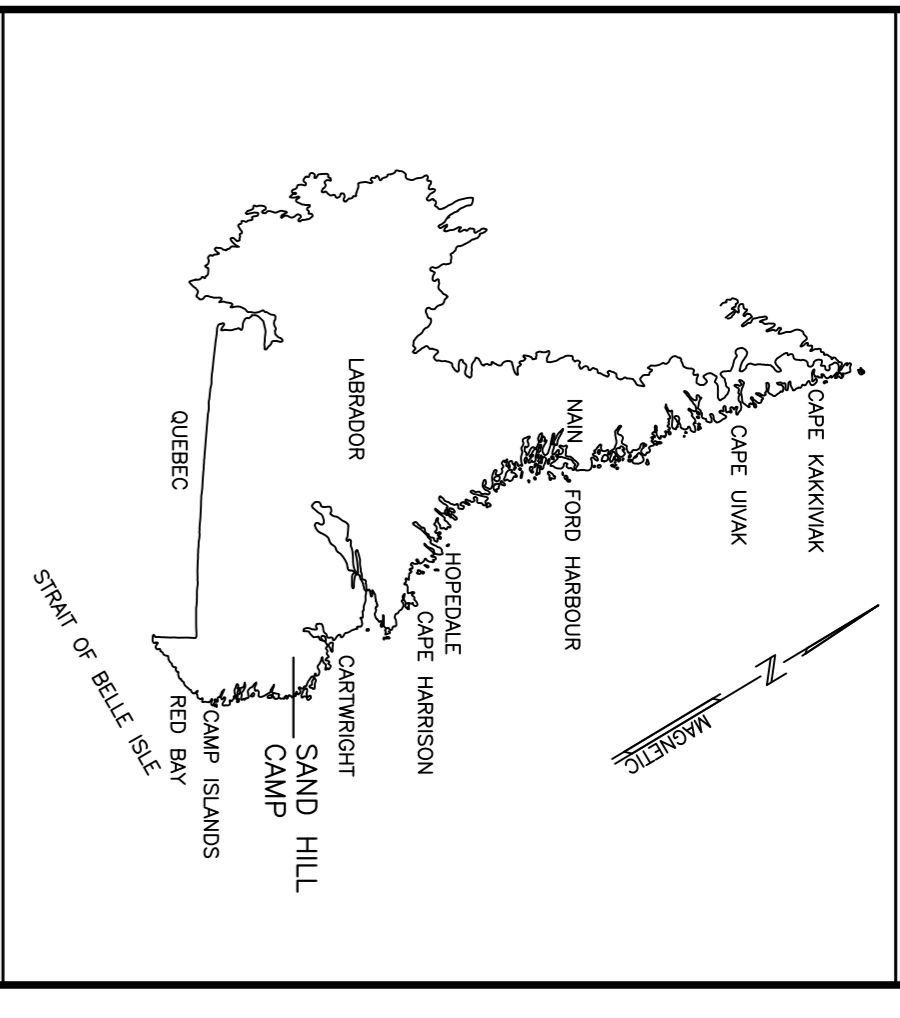
WALL MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.



TYP. LOWER MOUNTING DETAIL
SCALE: N.T.S.

FAN SCHEDULE															
SYMBOL	SERVING	MANUFACTURER	MODEL	TYPE	CAPACITY (L/S)	PRESSURE LOSS (Pa)	DRIVE	CURB	R.P.M.	MOTOR (KW)	VOLT	PH	CYC.	BACKDRAFT DAMPER	REMARKS
EF-1	FUEL STORAGE SHED	COOK	ACWD-90	WALL MOUNTED	180	62.5	DIRECT	N/A	1710	0.093	120	1	60	YES	C/W SPARK RESISTANT WHEEL AND EXPLOSION PROOF MOTOR & DISC SWITCH.

NOTE: 1. ALTERNATE MANUFACTURERS: CARNES, GREENNECK



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e-mail: info@newlabengineering.ca

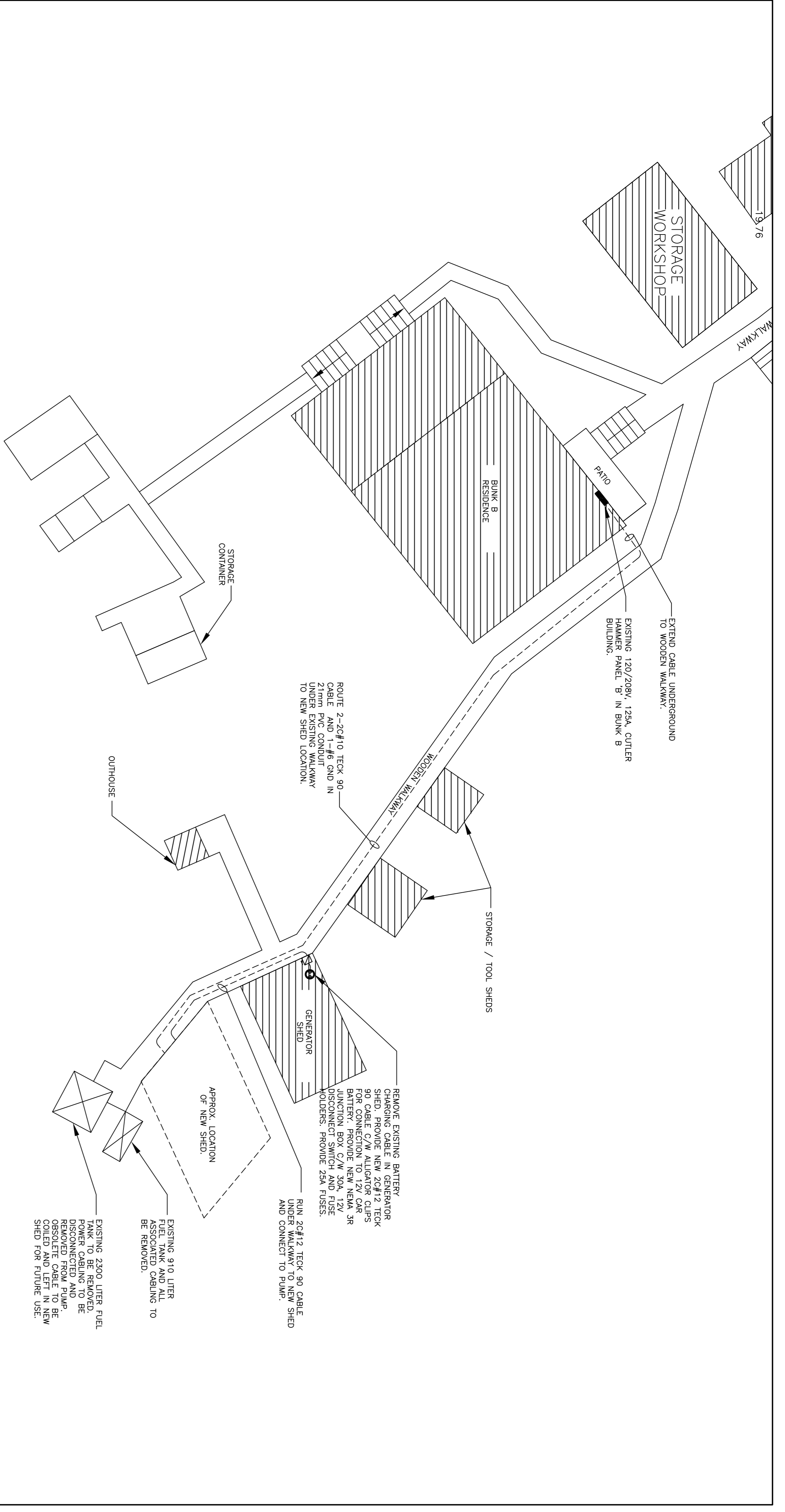
PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
This Permit Allows
CORE ENGINEERING INC.
Professional Engineering
NOV/06/17
To provide Professional Engineering in Newfoundland and Labrador, which is valid for the year 2017.



RO	ISSUED FOR TENDER	NOV/06 2017
revisions		
project		
FUEL TANK UPGRADES SANDHILL RIVER, LABRADOR		

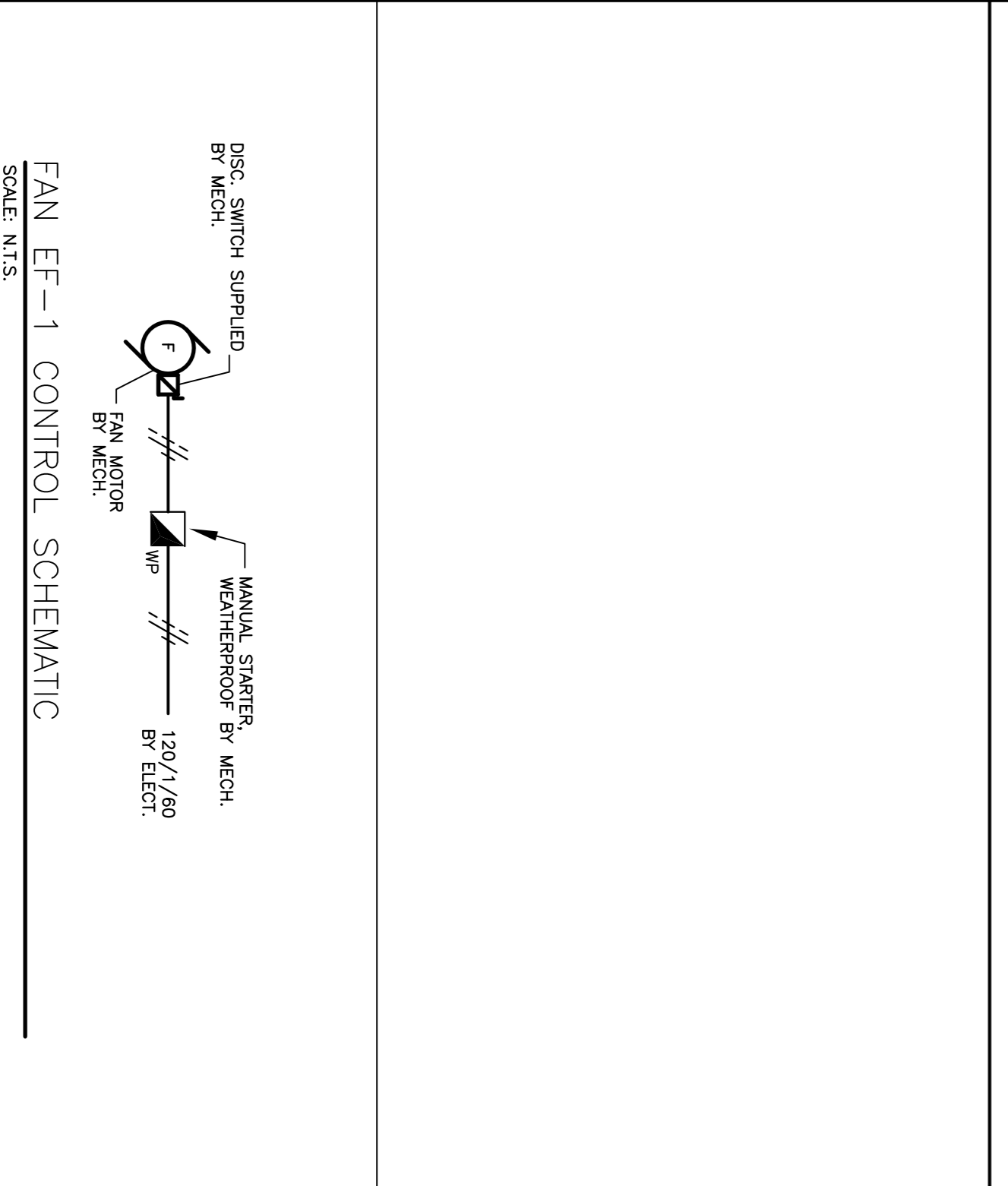
ELECTRICAL LAYOUT AND DETAILS

designed	D.B./G.I.T.	conçu
date	AUGUST 2017	date
drawn	T.B.	dessiné
date	AUGUST 2017	date
approved	D.B.	approuvé
date	AUGUST 2017	date
Tender		Submission
PMSCS Project Manager		Administrateur de projets TRSCC
project number	F6879-179218	no. du projet
drawing no.	13H0902A003E1	no. du dessin

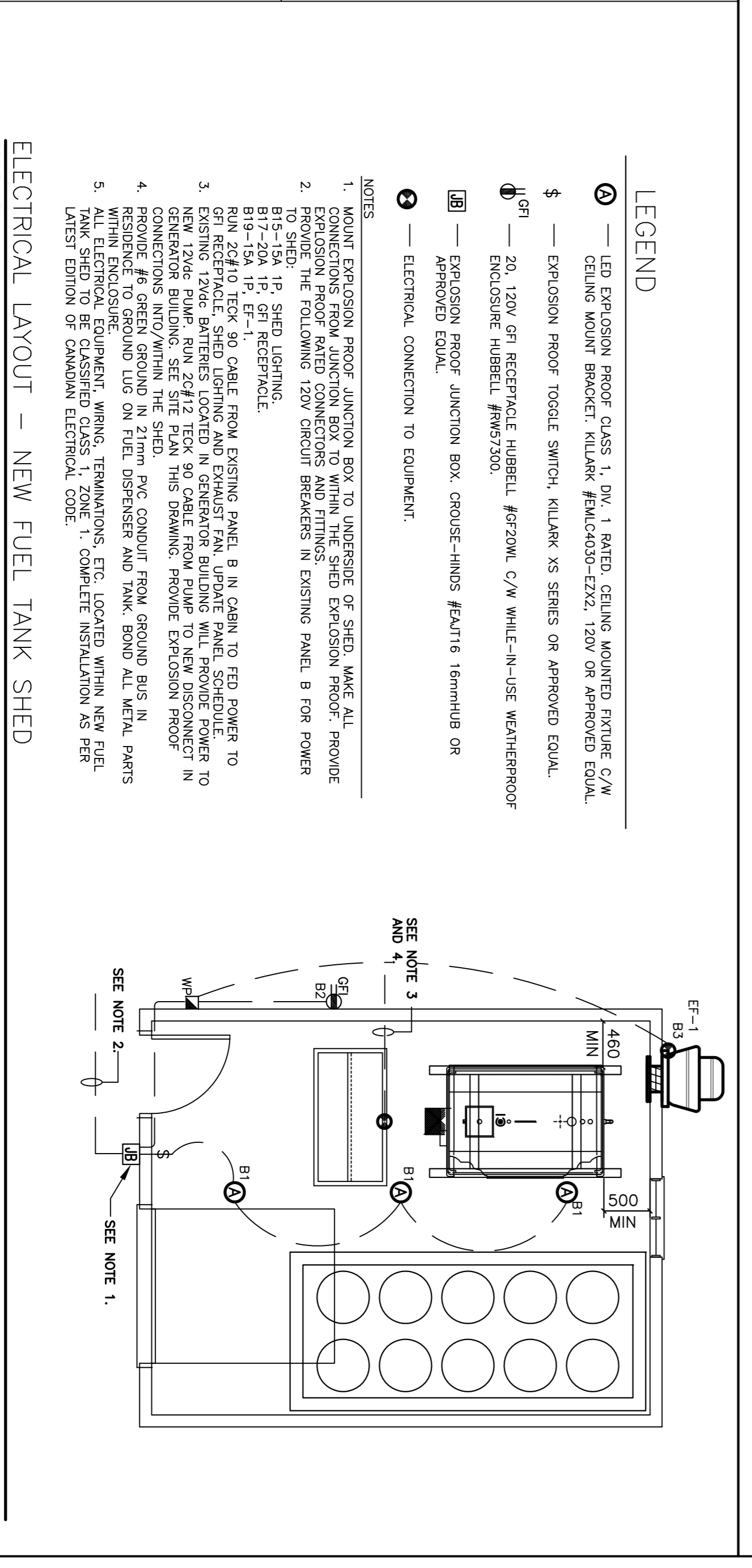


ELECTRICAL SITE PLAN
SCALE: 1:100

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



FAN EF-1 CONTROL SCHEMATIC
SCALE: N.T.S.



ELECTRICAL LAYOUT - NEW FUEL TANK SHED
SCALE: 1:50

SCALE : 1:50
0m 1m 2m 3m 4m 5m

