



Fisheries
and Oceans

Pêches
et Océans

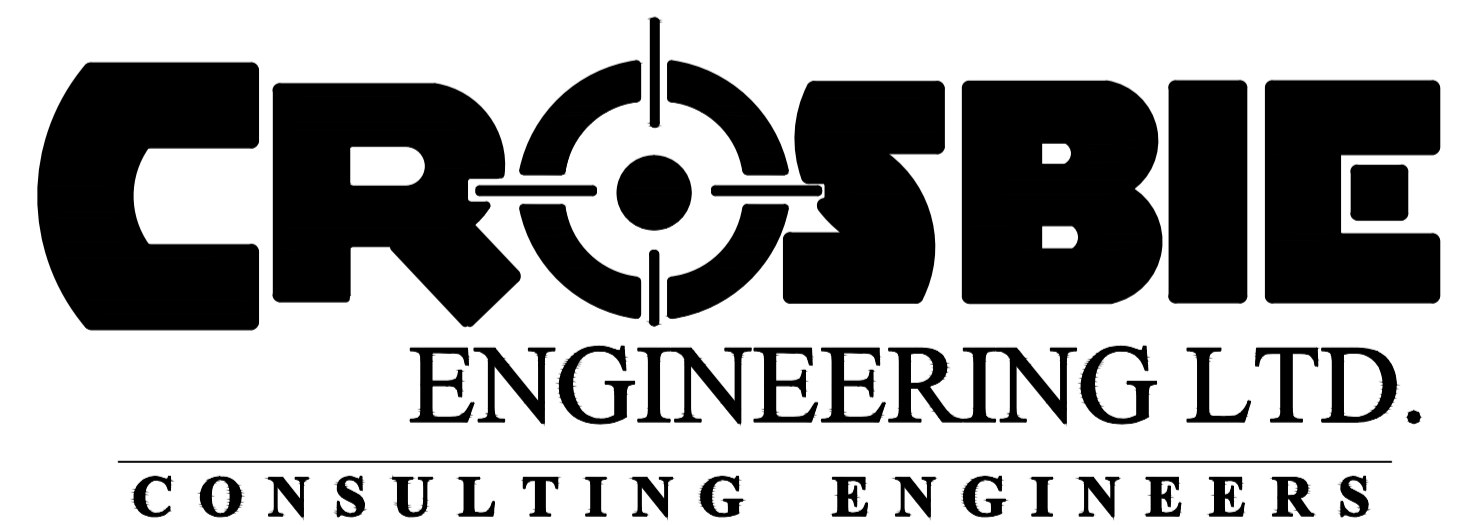
Real Property,
Safety & Security

Biens immobiliers,
protection et sécurité

PUFFIN ISLAND FUEL TANK REPLACEMENT BONAVISTA BAY, NEWFOUNDLAND

ISSUED FOR TENDER
JANUARY 8, 2021

ELECTRICAL/MECHANICAL CONSULTANT:



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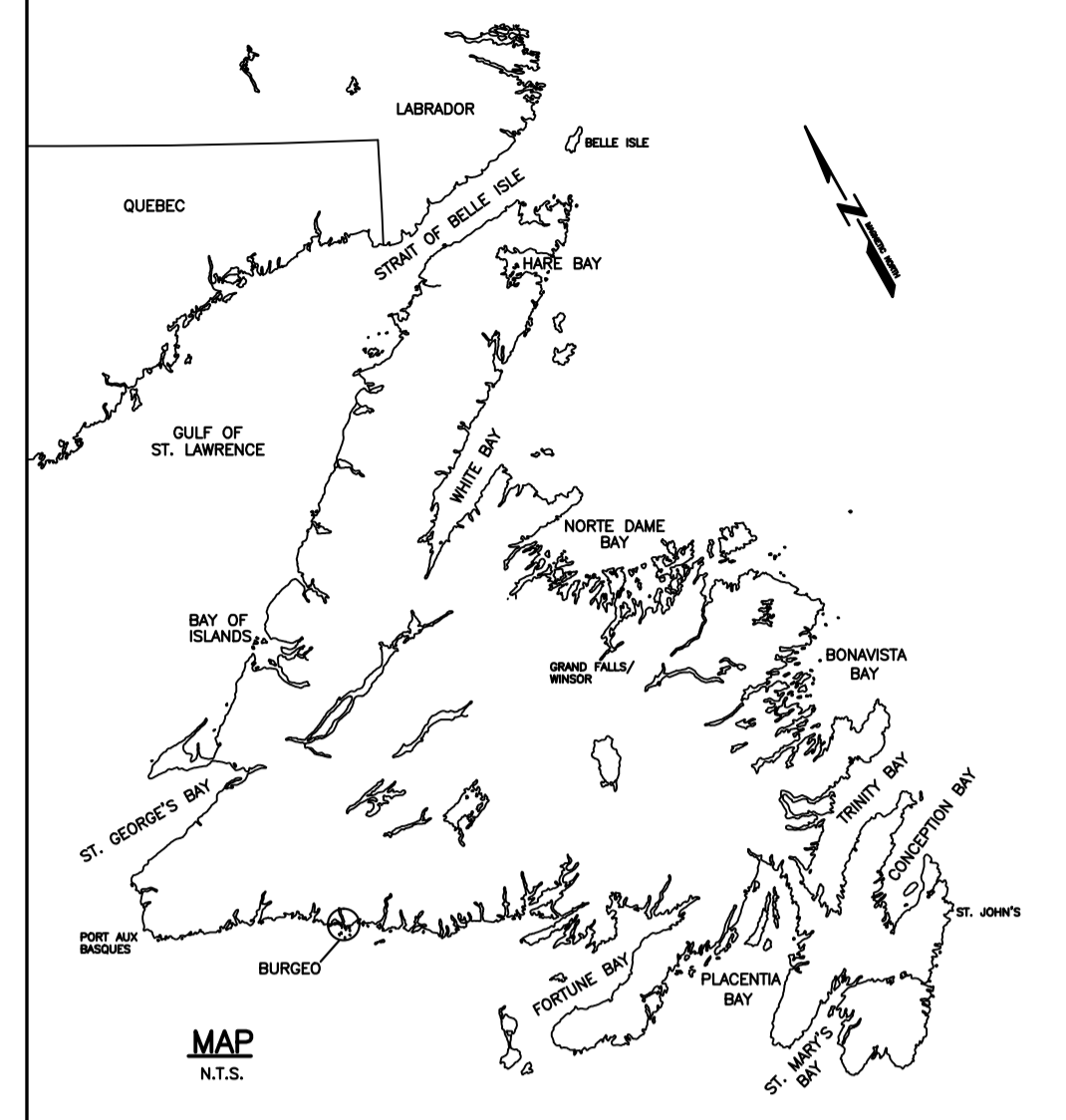
DRAWING LIST:

S-1 SITE PLAN

M-1 FUEL TANK DEMOLITION LAYOUT

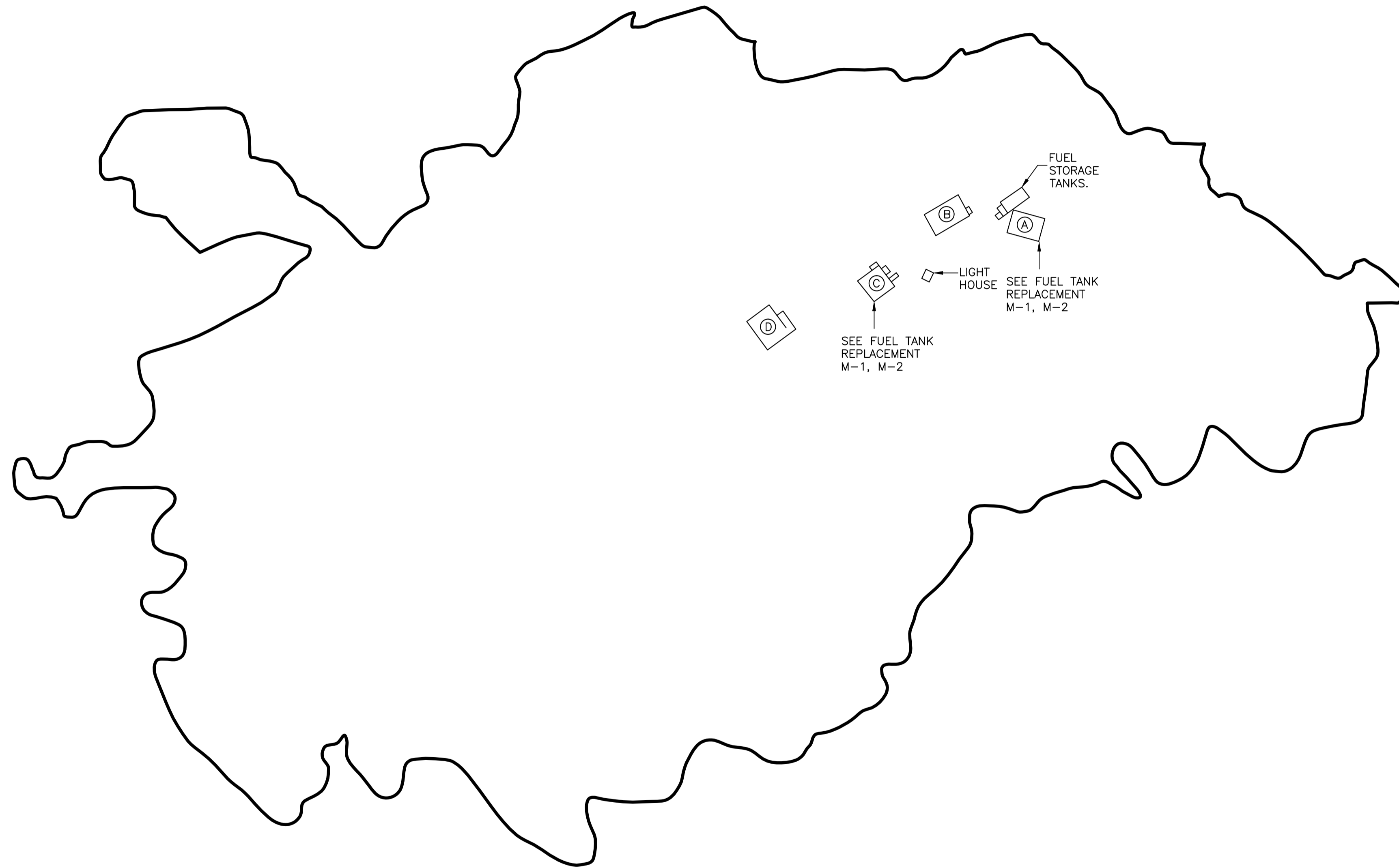
M-2 NEW FUEL TANK LAYOUT

M-3 MECHANICAL DETAILS





LEGEND

- (A) GENERATOR SHED
- (B) EQUIPMENT BUILDING
- (C) DWELLING UNIT
- (D) HELICOPTER PAD



SITE PLAN – PUFFIN ISLAND BONAVISTA BAY
N.T.S

<p>STAMP</p> 	<p>PERMIT</p> 
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- NOTES:**
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 - CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE BEFORE PROCEEDING WITH THIS WORK.
 - ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF: THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION; NATIONAL FIRE CODE OF CANADA, CURRENT EDITION; ANY OTHER AUTHORITIES HAVING JURISDICTION.

no.	revision	date	by	approved
0	ISSUED FOR TENDER	08/01/20	M.K.	N.C.

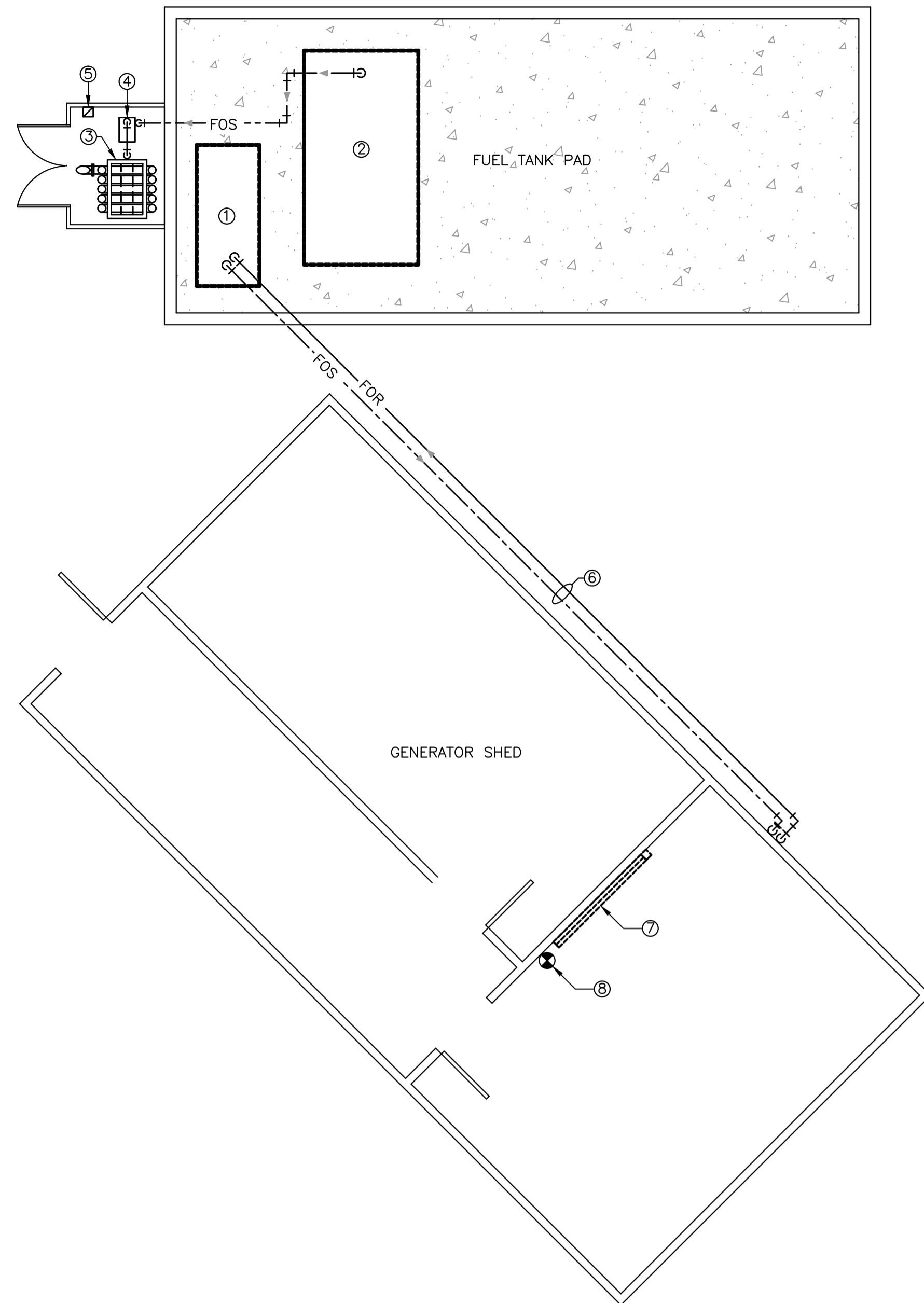
Project – projet

PUFFIN ISLAND FUEL TANK REPLACEMENT, BONAVISTA BAY NL

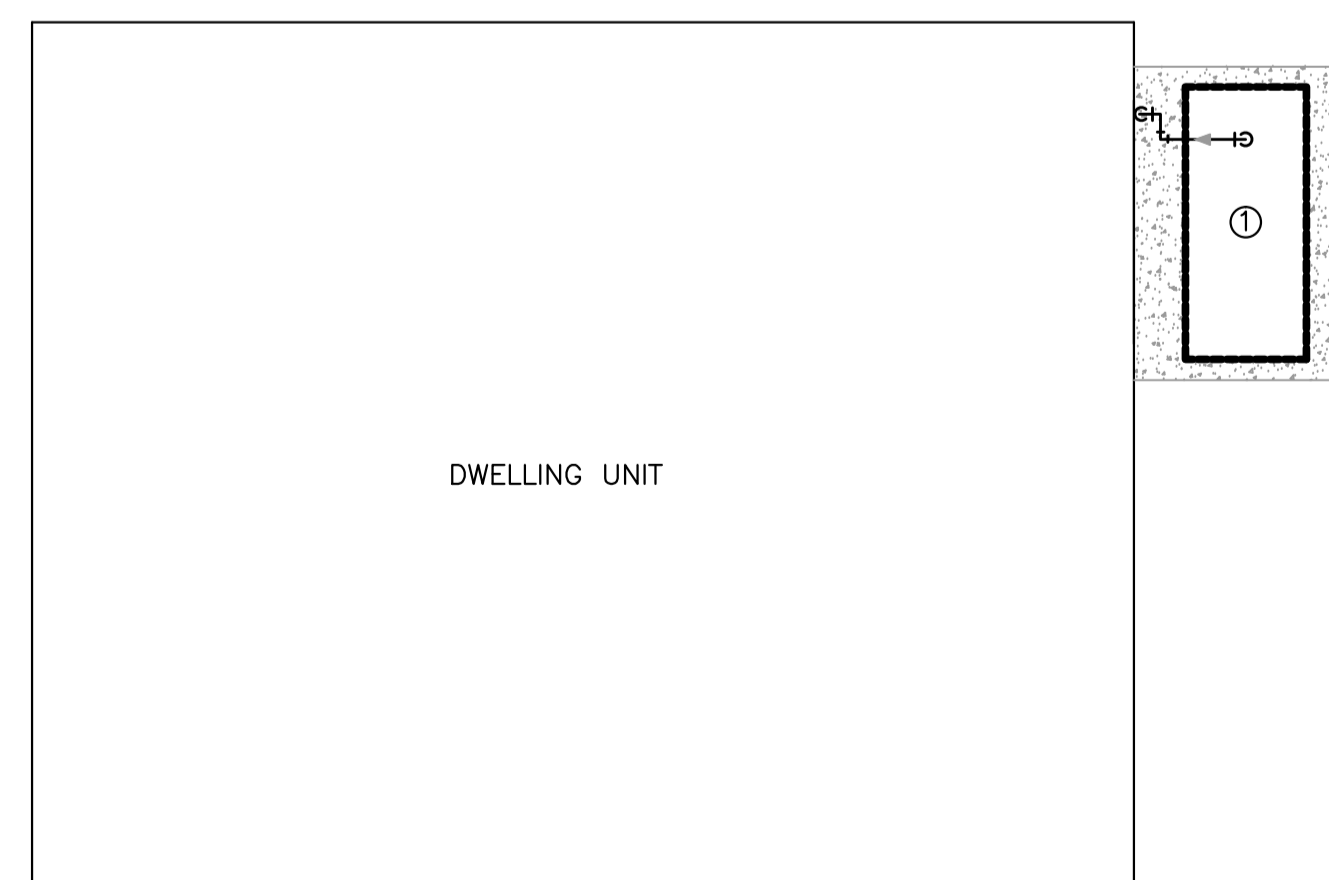
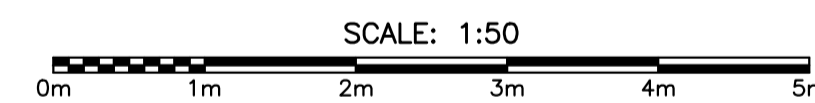
Drawing – dessin

SITE PLAN

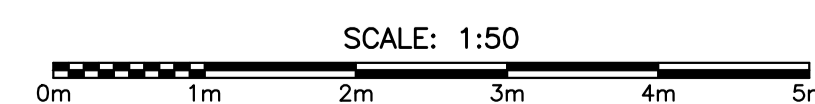
drawn – dessiné	M.K.	designed – dessiné par	N.C.
date – date	SEPTEMBER 2020	checked – vérifié	N.C.
scale – échelle	AS SHOWN	approved for tender – approuvé pour l'offre	
project no. – projet no.	F6879-209223	drawing no. – no du dessin	sheet – feuille
			S-1



GENERATOR SHED FUEL SYSTEM – DEMOLITION LAYOUT



DWELLING UNIT FUEL TANK SYSTEM – DEMOLITION LAYOUT

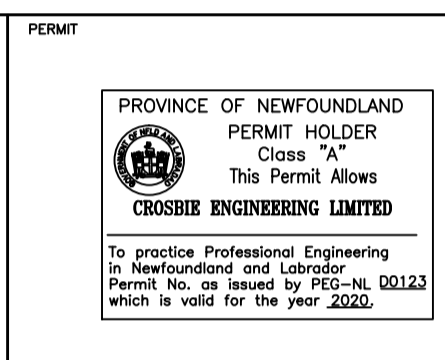
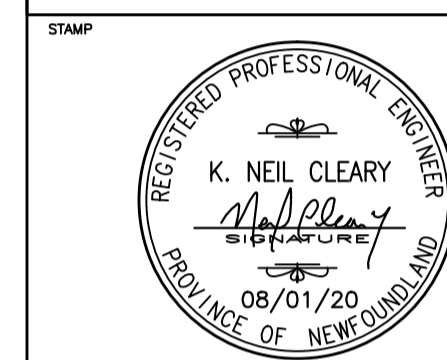
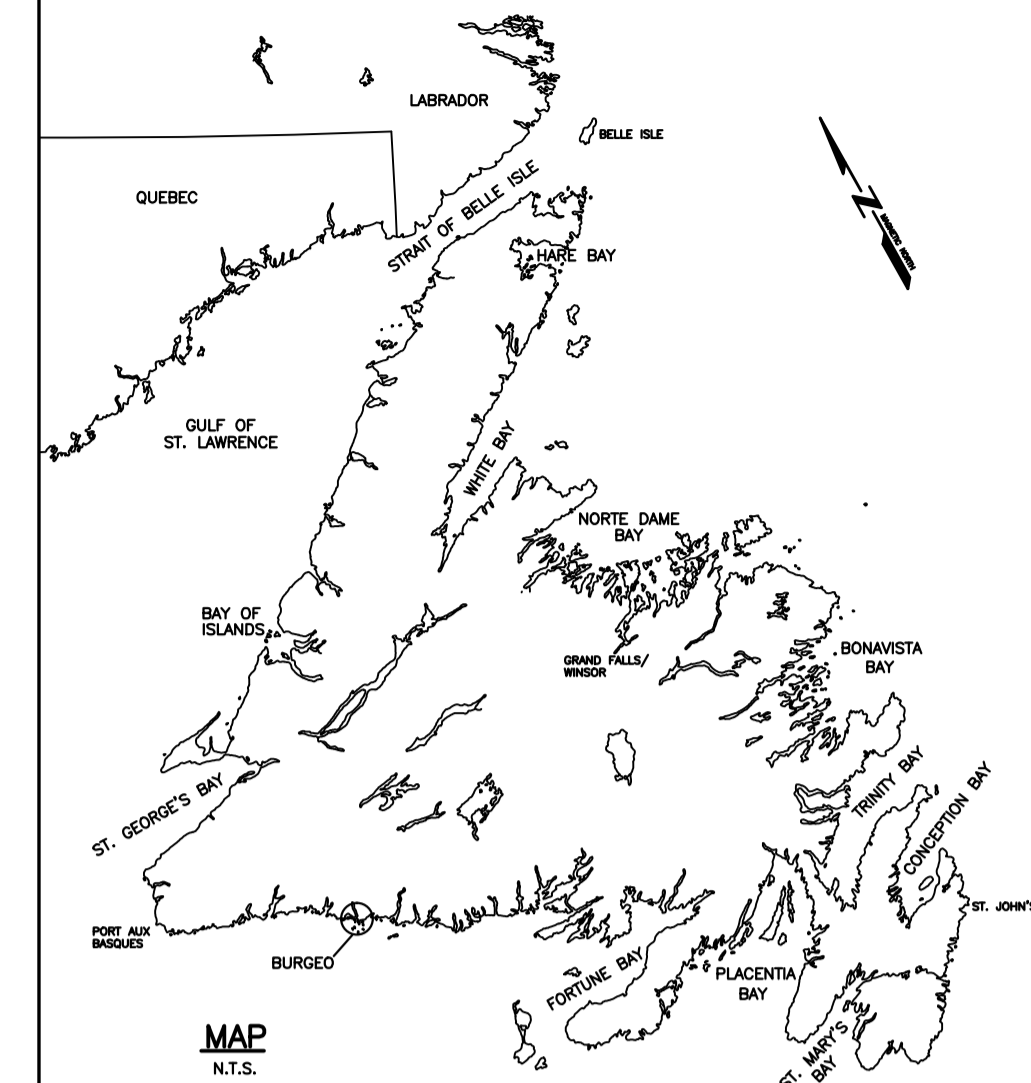


DEMOLITION NOTES:

- ① FUEL OIL TANK (900 L) TO BE REMOVED AND DISPOSED OF IN AN ENVIRONMENTALLY FASHION. DISCONNECT GROUND WIRING, GROUNDING WIRING TO REMAIN. COMPLETION OF A "DISMANTLING, DECOMMISSIONING OR DESTRUCTION NOTICE" REQUIRED FOR THE FUEL TANK TO BE REMOVED. CONTRACTOR TO COMPLETE DFO DECOMMISSIONING FORMS UPON REMOVAL OF EXISTING TANK. COORDINATE DEMOLITION WITH OWNER.
- ② FUEL TANK (6819 L) AND ALL ASSOCIATED EQUIPMENT INCLUDING BUT NOT LIMITED TO DISPENSERS, HOSES, HOSE CABINET EXISTING SKID AND STAIRS TO BE REMOVED AND DISPOSED OF IN AN ENVIRONMENTALLY FASHION. DISCONNECT GROUND WIRING. EXISTING PROBE WIRING, PROBE AND GROUNDING WIRING TO REMAIN. COMPLETION OF A "DISMANTLING, DECOMMISSIONING OR DESTRUCTION NOTICE". CONTRACTOR TO COORDINATE WITH OWNER.
- ③ REMOVE EXISTING HOSE AND REEL.
- ④ FUEL PUMP TO BE REMOVED AND REPLACED WITH NEW, ELECTRICAL SUPPLY TO REMAIN.
- ⑤ PUMP STARTER TO BE REMOVED, AND REPLACED WITH NEW. ELECTRICAL SUPPLY TO REMAIN.
- ⑥ SUPPLY AND RETURN FUEL LINES TO BE DEMOLISHED.
- ⑦ EXISTING HEATER TO BE RE-LOCATED TO ACCOMMODATE NEW FUEL TANK INSTALLATION. REFER TO M-2 FOR NEW LAYOUT.
- ⑧ EXISTING FIRE EXTINGUISHER TO BE RE-LOCATED TO ACCOMMODATE NEW FUEL TANK INSTALLATION. REFER TO M-2 FOR NEW LAYOUT.

GENERAL NOTES:

1. COORDINATE SHUTDOWN OF DIESEL FUEL SYSTEM WITH BUILDING MANAGEMENT. A MINIMUM OF 3 DAYS (72 HOURS) PRIOR TO CARRYING OUT THE WORK IN ALL AREAS.
2. COORDINATE WITH DEPARTMENTAL REPRESENTATIVES REPRESENTATIVE FOR ACCESS TO SENSITIVE LOCATIONS WITHIN THE FACILITY. ALLOW A 3 DAY (72 HOUR) NOTICE PRIOR TO BEGINNING WORK IN THESE AREAS.
3. SCHEDULING FOR SHUTDOWN OF DIESEL SYSTEM AND ACCESS TO SECURE LOCATIONS ON SITE TO BE DETERMINED AT PROJECT STARTUP MEETING WITH ENGINEER. CONTRACTOR AND BUILDING MANAGEMENT.
4. ALL LOCATIONS ARE TO BE CONSIDERED APPROXIMATE ONLY. CONFIRM ALL LOCATIONS ON SITE AND ADJUST AS REQUIRED.
5. DRAWINGS ADAPTED FROM SCANNED ORIGINALS OF BUILDING DESIGN AND LAYOUT. DO NOT SCALE FROM DRAWINGS.
6. COORDINATE WITH ALL OTHER TRADES.
7. CONTRACTOR SHALL COMPLETE OF A DISMANTLING DECOMMISSIONING OR DESTRUCTION NOTICE".
8. FUEL MANIFEST REQUIRED FROM THE CONTRACTOR INDICATING THE QUANTITY AND WHERE THE WASTE OIL AND DIESEL FUEL WERE DISPOSED OF. THE DECOMMISSIONING OF THE EXISTING TANKS WILL BE REQUIRED TO TAKE PLACE BY CONTRACTORS LICENSED FOR THIS ACTIVITY IN THE PROVINCE OF NL.
9. CONTRACTOR IS REQUIRED TO PUT REGISTRATION LABELS ON NEW TANKS.
10. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE REMOVAL AND DISCARDING OF ALL DEMOLITION WASTE INCLUDING THE OLD DIESEL FUEL TANK AND ANY UNFORESEEN ITEMS WITHIN THE SCOPE OF WORK.
11. DEMOLITION CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AFFECTING THE WORK.
12. DEPARTMENTAL REPRESENTATIVES SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.



NOTES:

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- 2.) CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE BEFORE PROCEEDING WITH THIS WORK.
- 3.) ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF: THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION; NATIONAL FIRE CODE OF CANADA, CURRENT EDITION; ANY OTHER AUTHORITIES HAVING JURISDICTION.

no.	revision	date	by	approved
0	ISSUED FOR TENDER	08/01/20	M.K.	N.C.

Project – projet

PUFFIN ISLAND FUEL TANK REPLACEMENT, BONAVISTA BAY NL

Drawing – dessin

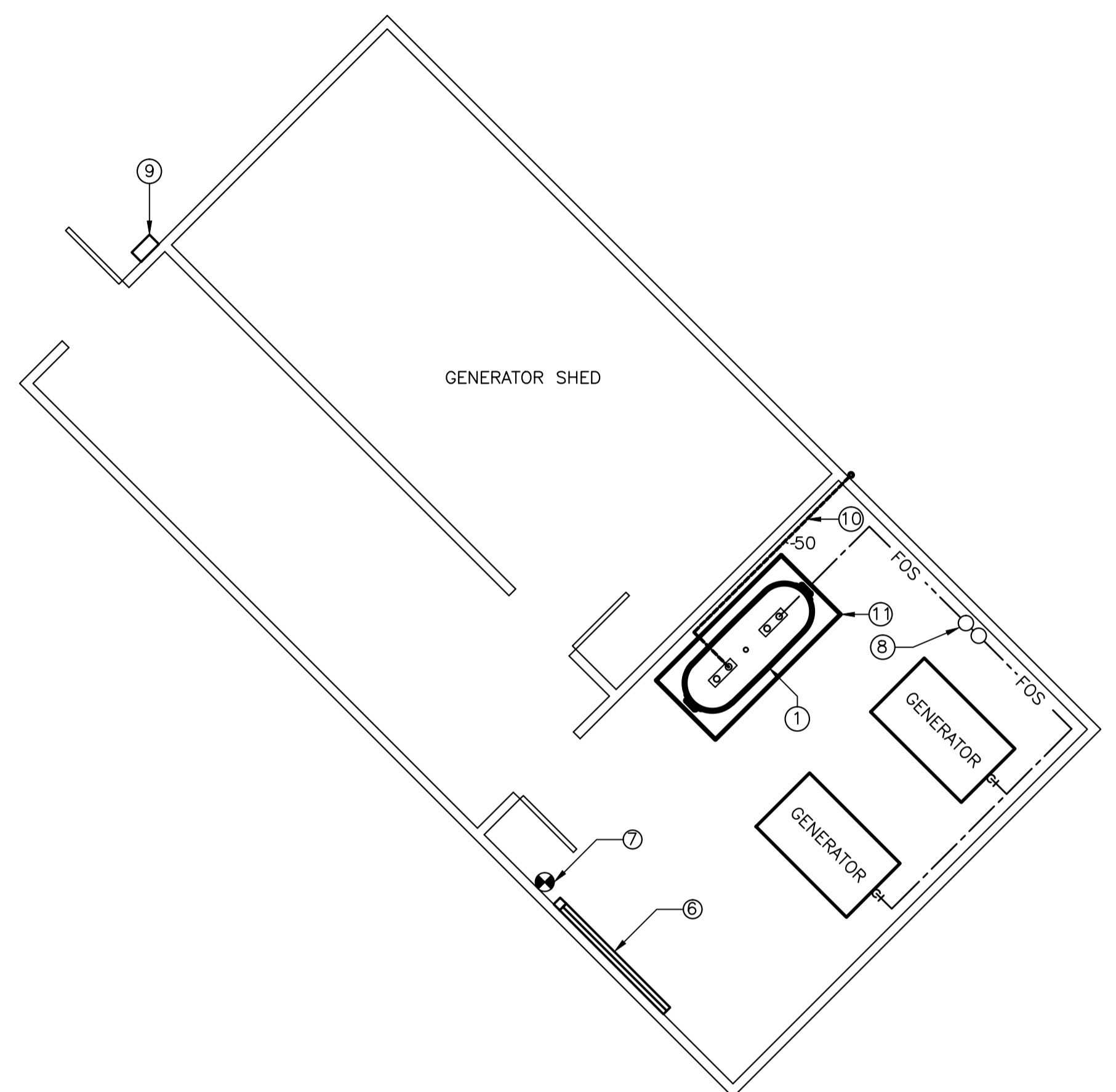
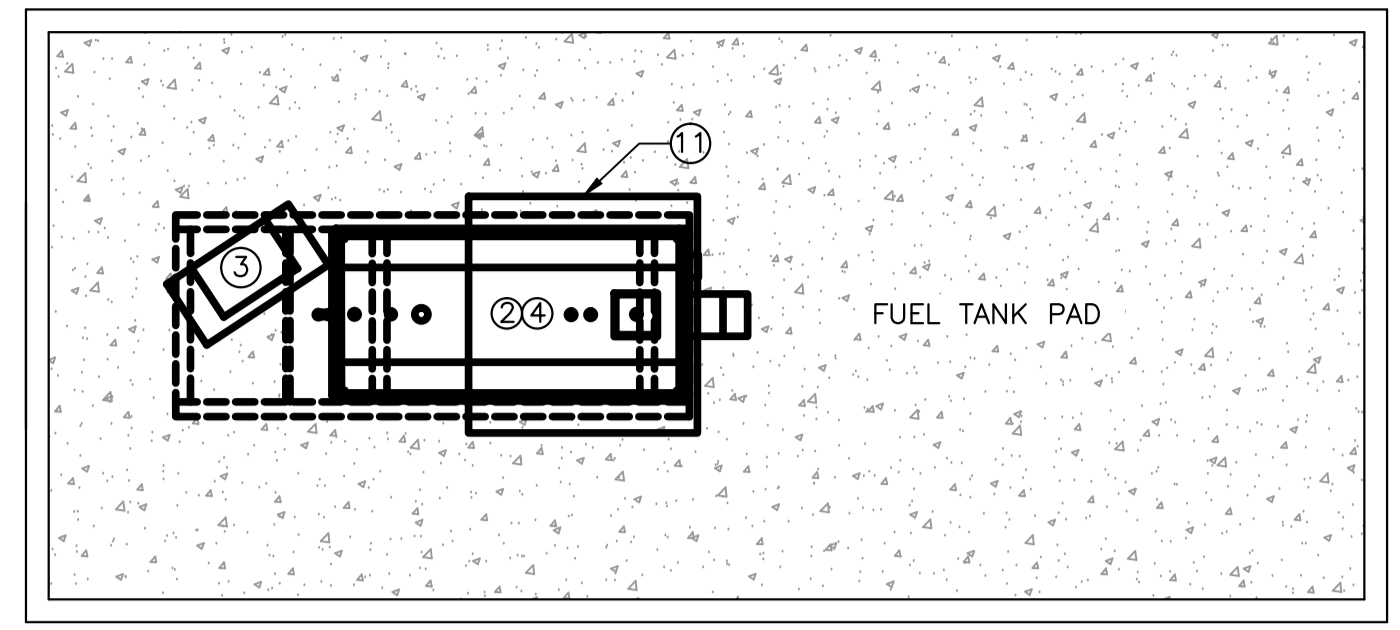
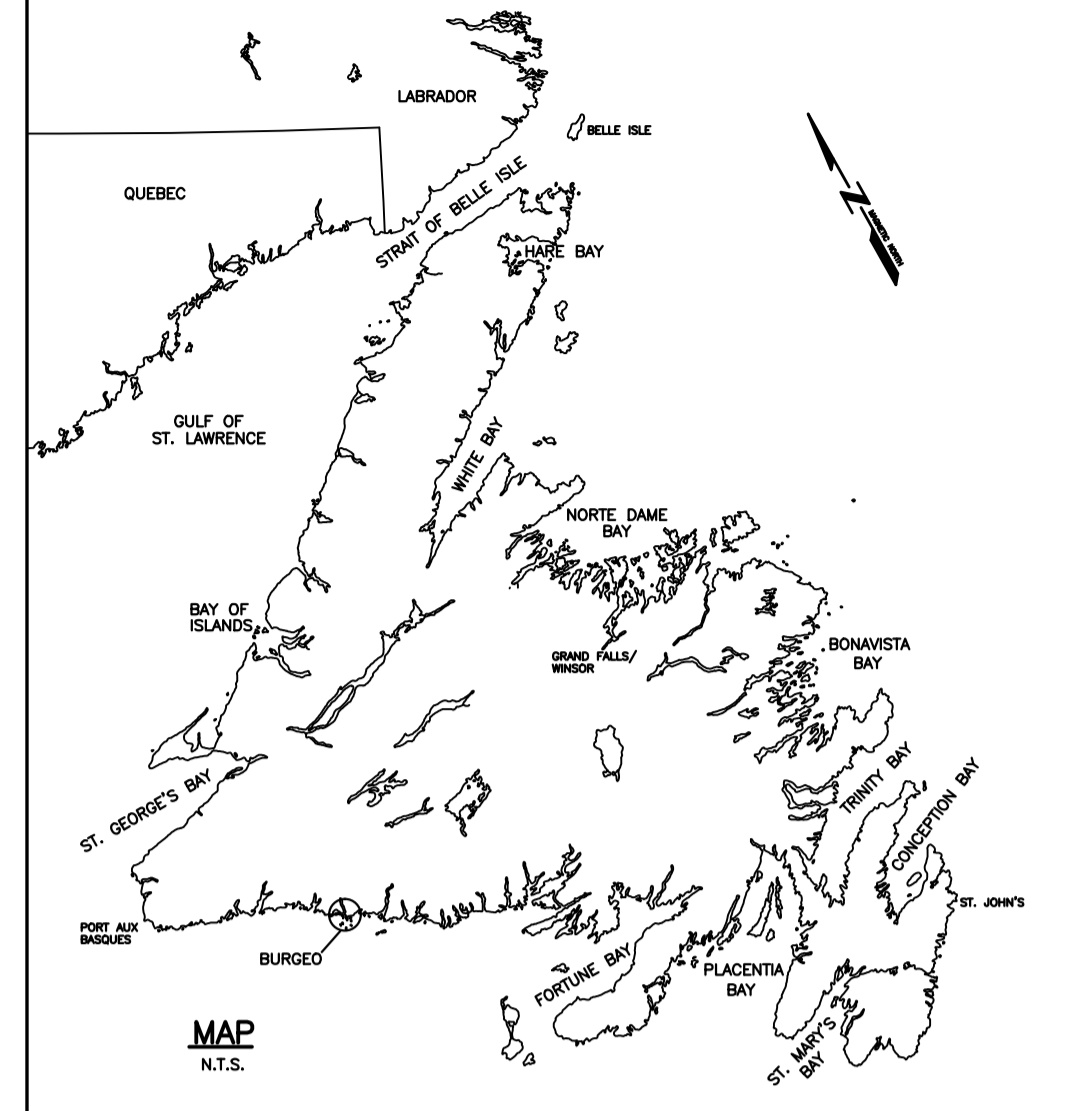
FUEL TANK DEMOLITION LAYOUT

drawn – dessiné M.K. designed – dessiné par N.C.

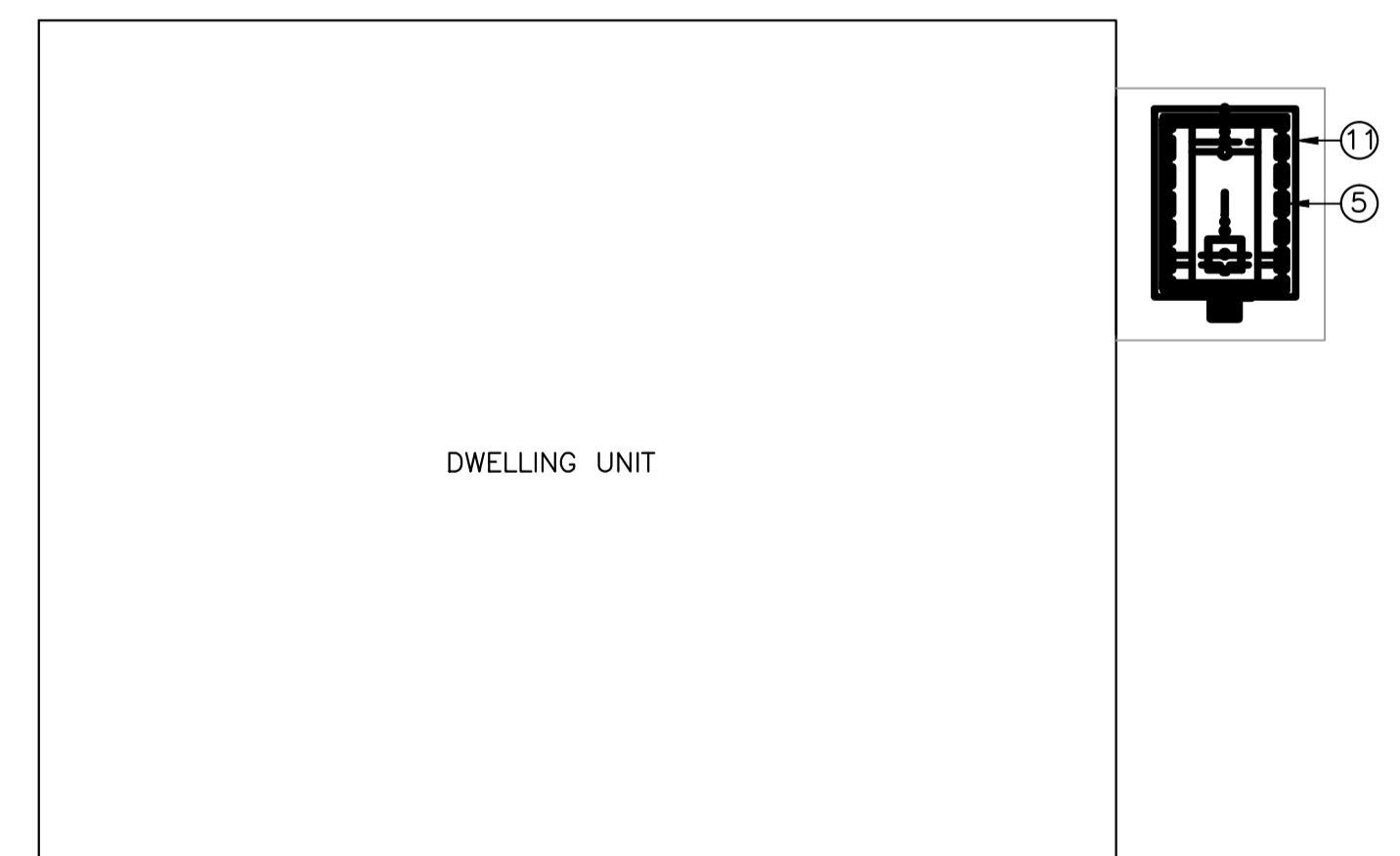
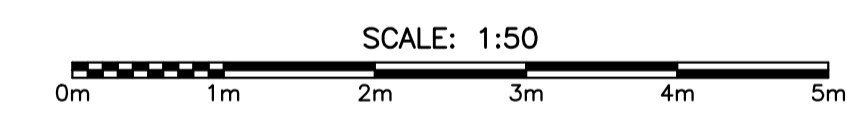
date – date SEPTEMBER 2020 checked – vérifié N.C.

scale – échelle AS SHOWN approved for tender – approuvé pour l'offre

project no. – projet no. F6879-209223 drawing no. – no du dessin sheet – feuille M-1



GENERATOR FUEL SYSTEM – NEW LAYOUT



DWELLING UNIT FUEL SYSTEM – NEW LAYOUT



DRAWING NOTES:

- ① INSTALL NEW FIBERGLASS 900L DIESEL FUEL TANK C/W 100mm CONCRETE PAD AND ALL INDICATED ACCESSORIES. CONNECT NEW TANK TO EXISTING GROUND. COORDINATE EXACT GROUND WIRE LOCATION ON SITE PRIOR TO CONSTRUCTION. THIS TANK TO BE MANUALLY FILLED WITH HOSE. CONNECTION TO EXISTING GENERATOR . SEE DETAIL ON M-3
- ② 6819L DIESEL FUEL TANK C/W ALL INDICATED ACCESSORIES AS PER DETAILS ON THIS DRAWING. CONNECT NEW TANK TO EXISTING GROUND. CONNECT NEW DISCONNECTS TO NEW PUMP AND HOSE REEL ASSEMBLY. COORDINATE EXACT GROUND WIRE AND SENSOR PROBE WIRING LOCATIONS ON SITE PRIOR TO CONSTRUCTION. TANK TO BE STAINLESS STEEL AND DOUBLE-WALL. SEE DETAIL ON M-3.
- ③ NEW FUEL DISPENSER SEE DETAIL ON M-3. NEW INSTALLATION SHALL BE COMPLETED SUCH THAT EXISTING UNDERGROUND ELECTRICAL WIRE BOX IS ACCESSIBLE.
- ④ LENGTH OF TANK TO MATCH EXISTING CONCRETE PAD. LONGER TANK NOT ACCEPTABLE.
- ⑤ 900L DIESEL FUEL TANK C/W ALL INDICATED ACCESSORIES AS PER DETAILS ON THIS DRAWING. CONNECT NEW TANK TO EXISTING GROUND. COORDINATE EXACT GROUND WIRE AND SENSOR PROBE WIRING LOCATIONS ON SITE PRIOR TO CONSTRUCTION. TANK TO BE STAINLESS STEEL AND DOUBLE-WALL. CONTRACTOR RESPONSIBLE FOR CONNECTION AND CORRECT OPERATION OF EXISTING FURNACE.
- ⑥ RE-LOCATED HEATER. EXTEND WRING AND CONDUIT TO SUIT NEW HEATER LOCATION
- ⑦ RE-LOCATED FIRE EXTINGUISHER.
- ⑧ EXISTING FUEL FILTERS TO REMAIN.
- ⑨ EXISTING EMERGENCY STOP AND ALARM. TO BE RE-CONNECTED TO NEW PUMP.
- ⑩ 50mmØ VENT LINE TO EXTERIOR.
- ⑪ NEW FUEL TRANSFER PROTECTION PAN.

GENERAL NOTES:

1. COORDINATE SHUTDOWN OF DIESEL FUEL SYSTEM WITH BUILDING MANAGEMENT. A MINIMUM OF 3 DAYS (72 HOURS) PRIOR TO CARRYING OUT THE WORK IN ALL AREAS.
2. COORDINATE WITH DEPARTMENTAL REPRESENTATIVES REPRESENTATIVE FOR ACCESS TO SENSITIVE LOCATIONS WITHIN THE FACILITY. ALLOW A 48 HOUR NOTICE PRIOR TO BEGINNING WORK IN THESE AREAS.
3. ALL LOCATIONS ARE TO BE CONSIDERED APPROXIMATE ONLY. CONFIRM ALL LOCATIONS ON SITE AND ADJUST AS REQUIRED.
4. DRAWINGS ADAPTED FROM SCANNED ORIGINALS OF BUILDING DESIGN AND LAYOUT. DO NOT SCALE FROM DRAWINGS.
5. COORDINATE WITH ALL OTHER TRADES.

STAMP: REGISTÉREDD PROFESSIONAL ENGINEER, K. NEIL CLEARY, 08/01/20, PROVINCE OF NEWFOUNDLAND.

PERMIT: PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A", CROSSIE ENGINEERING LIMITED, To practice Professional Engineering in Newfoundland and Labrador, Permit No. as issued by PEG-44-00123 which is valid for the year 2020.

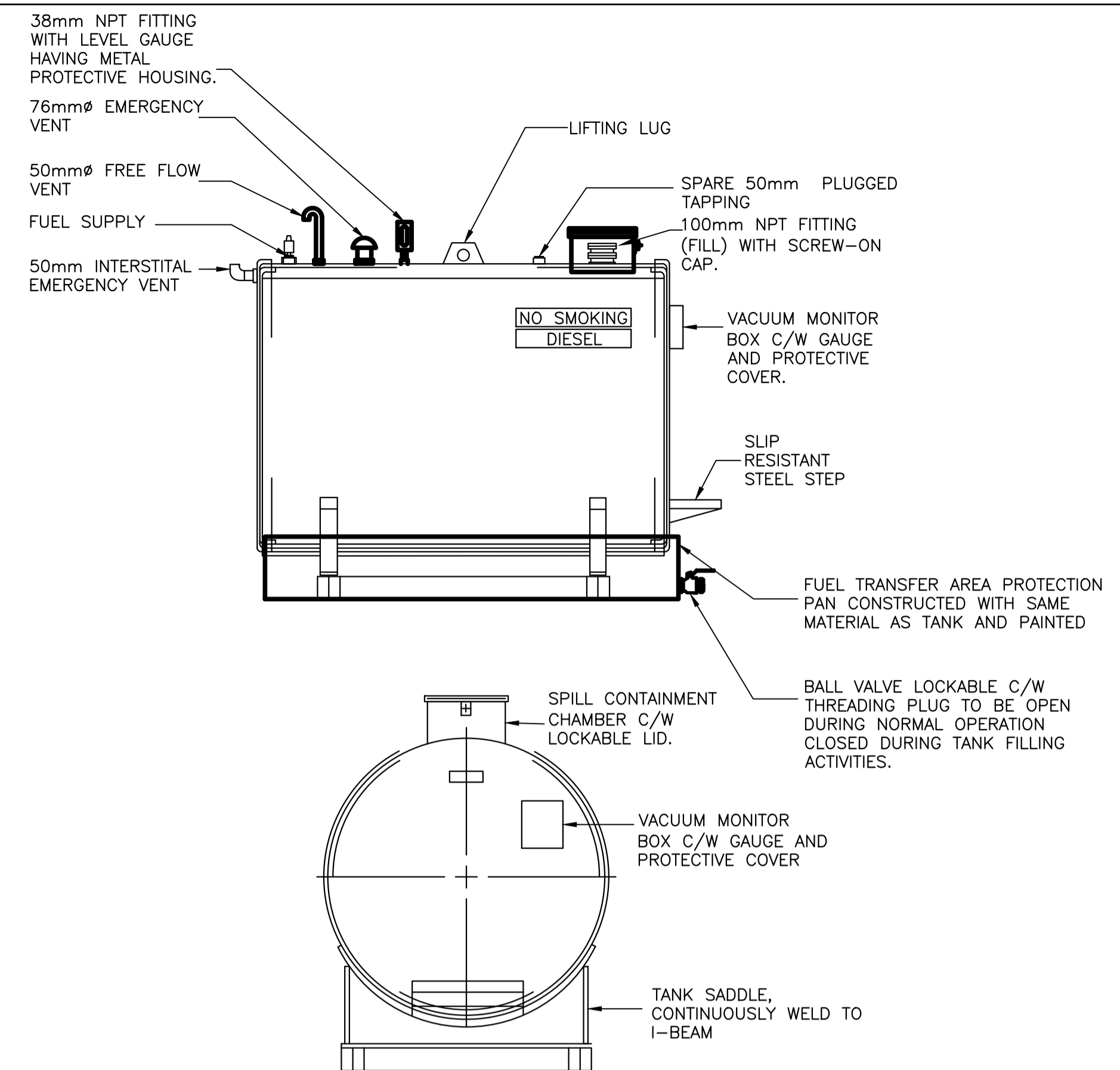
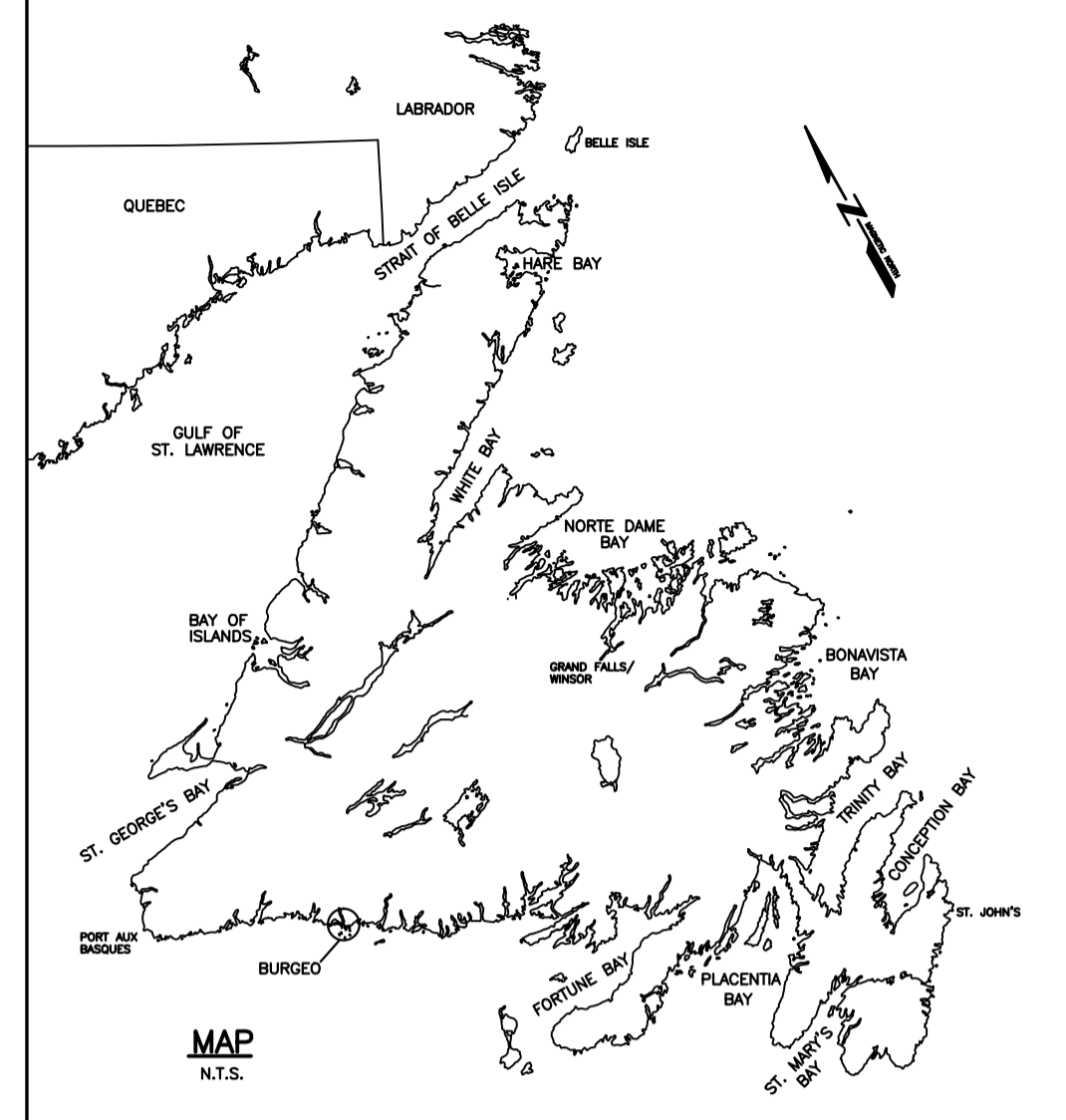
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no.	revision	date	by	approved
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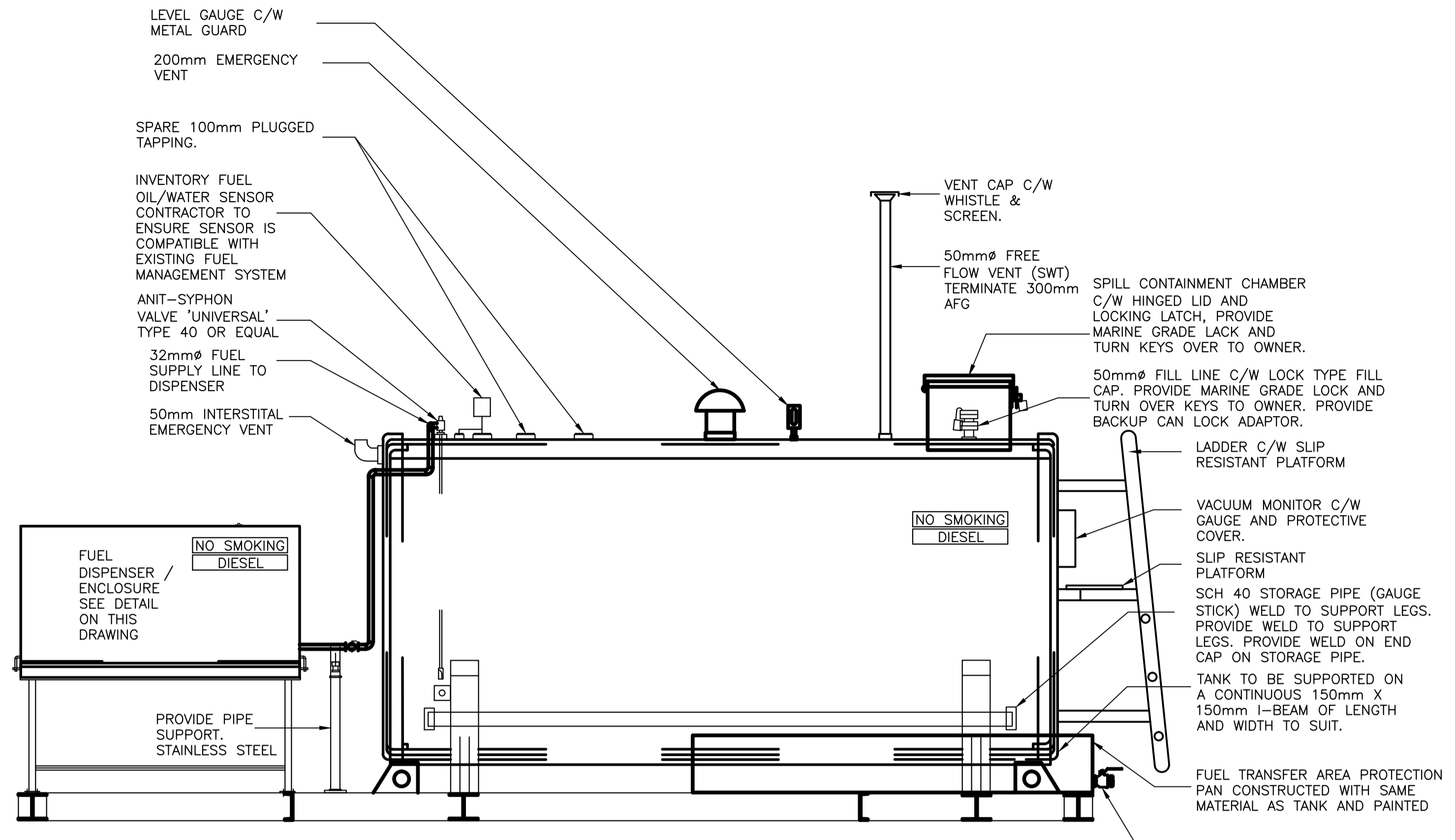
Project – projet
PUFFIN ISLAND FUEL TANK REPLACEMENT, BONAVISTA BAY NL

Drawing – dessin
NEW FUEL TANK LAYOUT

drawn – dessine	M.K.	designed – dessine par	N.C.
date – date	SEPTEMBER 2020	checked – vérifié	N.C.
scale – échelle	AS SHOWN	approved for tender – approuvé pour l'offre	
project no. – projet no.	F6879-209223	drawing no. – no du dessin	sheet – feuille M-2



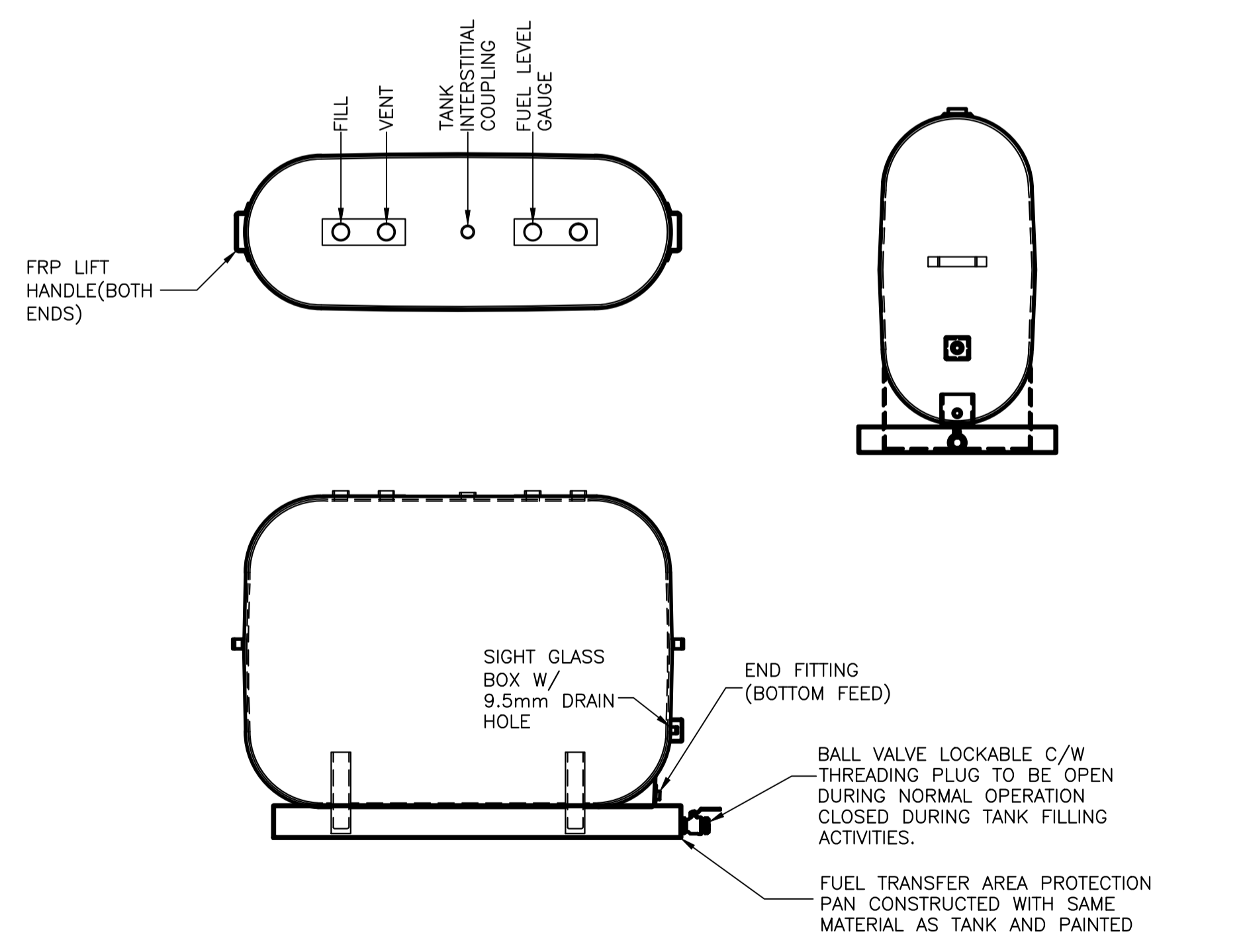
NEW DWELLING STAINLESS STEEL 900L DIESEL FUEL TANK DETAIL
 N.T.S



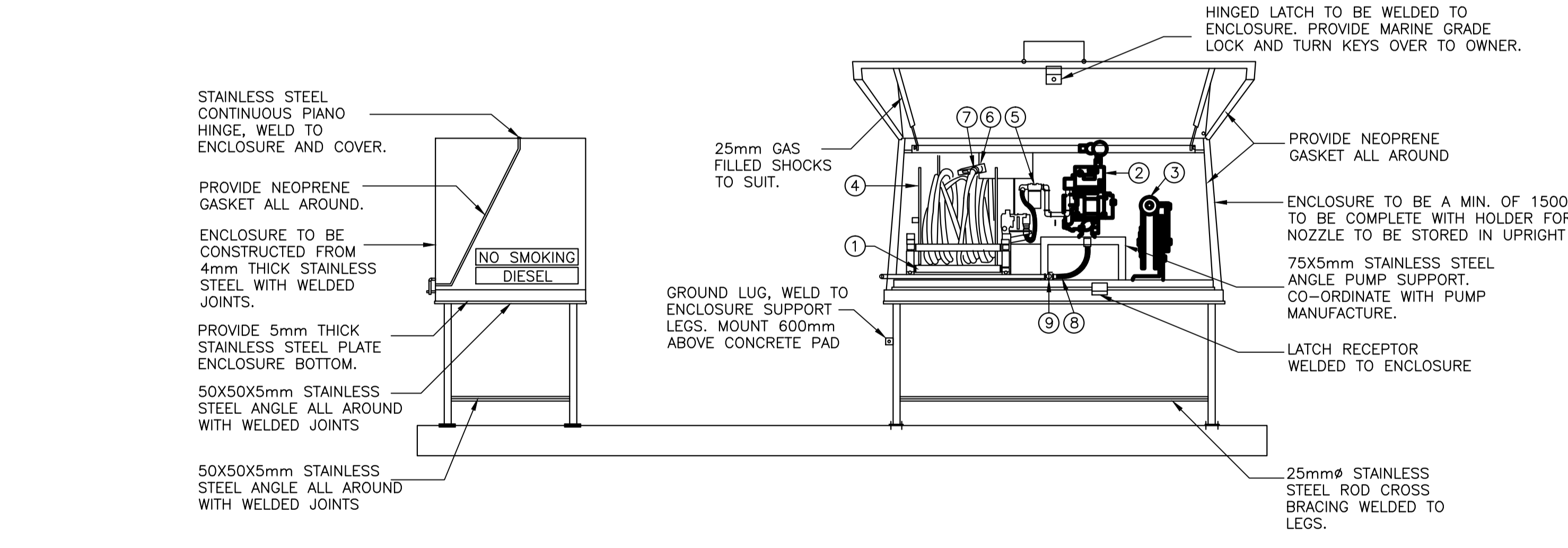
NEW STAINLESS STEEL 6819L DIESEL FUEL TANK/DISPENSER DETAIL
 N.T.S

STAMP: REGISTRE PROFESSIONNEL ENGINEERS / PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "A" / CROSSIE ENGINEERING LIMITED

- NOTES:
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NEW FIBERGLASS 900L DIESEL FUEL TANK DETAIL
 N.T.S



- FUEL DISPENSER NOTES
- 'HANNAY' NO. SS6022-25-26-EP OR EQUAL STAINLESS STEEL ELECTRIC REWIND HOSE REEL WITH 3/4HP., 120/1/60 MOTOR, C/W TYPE 304 STAINLESS STEEL HUB, 25mmØ. FEMALE SUPER SWIVEL JOINT, BUNA N SEALS, 25mmØ FEMALE NPT RISER, MODEL C2 STAINLESS STEEL ROLLER ASSEMBLY AND OPTIONAL HAND REWIND WITH REMOVABLE CRANK HANDLE. PROVIDE REDUCERS AS NECESSARY FOR 20mmØ HOSE CONNECTIONS, SWITCH FOR REEL AND VARIABLE SPEED CONTROL FOR REWIND SPEED.
 - 'GPI' NO. M-3120/MRS-30 OR EQUAL 110 VOLT ELECTRIC PUMP WITH 3/4HP. EXPLOSION PROOF MOTOR, MOUNTING ADAPTER, 25mmØ INLET AND OUTLET, DISCHARGE VACUUM BREAKER, AND 4 WHEEL RE-SETTABLE METER. CALIBRATED IN LITRES.
 - 'HANNAY' NO. MHGR100 OR EQUAL GROUNDING REEL NON-SPARKING RATCHET ASSEMBLY STAINLESS STEEL WITH 50 METERS OF STAINLESS STEEL GROUND CABLE WITH CLAMP AND ADJUSTABLE GUIDE ARM AND STOP. SECURE TO BOTTOM OF ENCLOSURE.
 - 'BC MARINA' 2BD UL LISTED OR APPROVED EQUAL 20mmØ X 50 METERS FUEL TRANSFER HOSE COMPLETE WITH CAM LOCK STYLE NOZZLE.
 - 'PETRO CLEAR' MODEL OR APPROVED EQUAL 5041P FILTER - 10 MICRON COMPLETE WITH 20mmØ ADAPTOR.
 - 'OPW' MODEL 11 AKP C/W NOZZLE CAP OR APPROVED EQUAL OR APPROVED EQUAL AUTOMATIC NOZZLE 20mmØ COMPLETE WITH HOLD OPEN RACK REMOVED.
 - 'OPW' MODEL 241TPS OR APPROVED EQUAL 20mmØ HOSE SWIVEL ASSEMBLY.
 - TYP. 'IRPCO' 12488 STEELFLEX OR EQUAL 25mmØ HOSE TO LENGTH TO SUIT COMPLETE WITH NECESSARY FITTINGS.
 - 32mmØ 316 STAINLESS STEEL SHUT-OFF BALL VALVE, PROVIDE REDUCER TO REDUCE TO 25mmØ FLEX LINE.

NEW FUEL DISPENSER / ENCLOSURE DETAIL
 N.T.S

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			M-3	