



3	ISSUED FOR TENDER	09/10/2019
2	ISSUED FOR 99% REVIEW	03/02/2018
1	ISSUED FOR 66% REVIEW	12/19/2017
revisions		date

project
FUEL OIL STORAGE TANK
SYSTEM REPLACEMENT
DISCOVERY CENTRE
WOODY POINT, GROS MORNE
NATIONAL PARK, NL

drawing
dessin

NEW ABOVEGROUND PRODUCT TRANSFER AREA CONTAINMENT BOX DETAIL

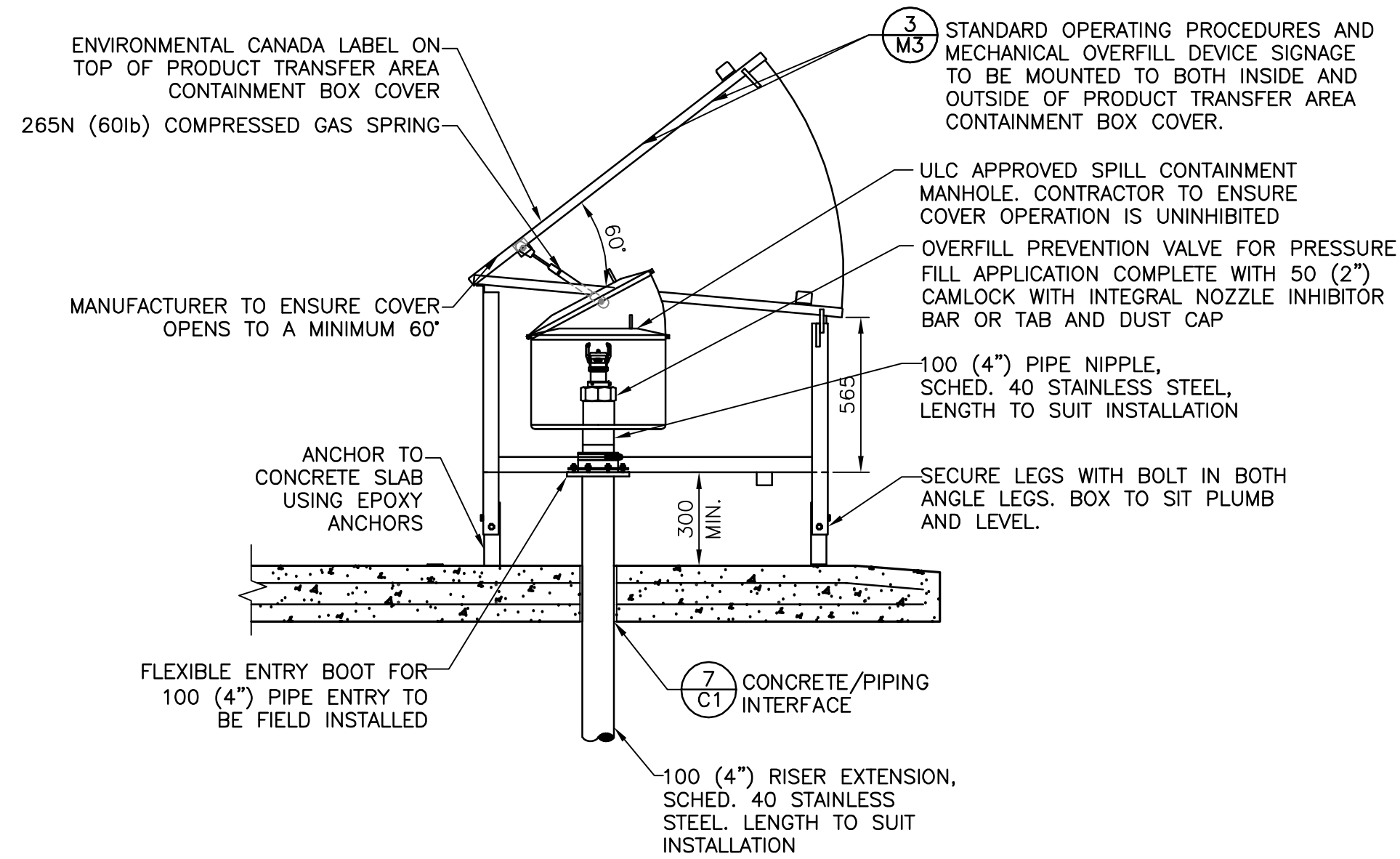
designed	E. FINNAMORE	conçu
date	JANUARY, 2018	
drawn	M. CLARK	dessiné
date	JANUARY, 2018	
approved	T. JAGIELSKI	approuvé
date	AUGUST, 2019	

Tender
J. WHITE
PWGSC Project Manager
Administrateur de projets TPSGC

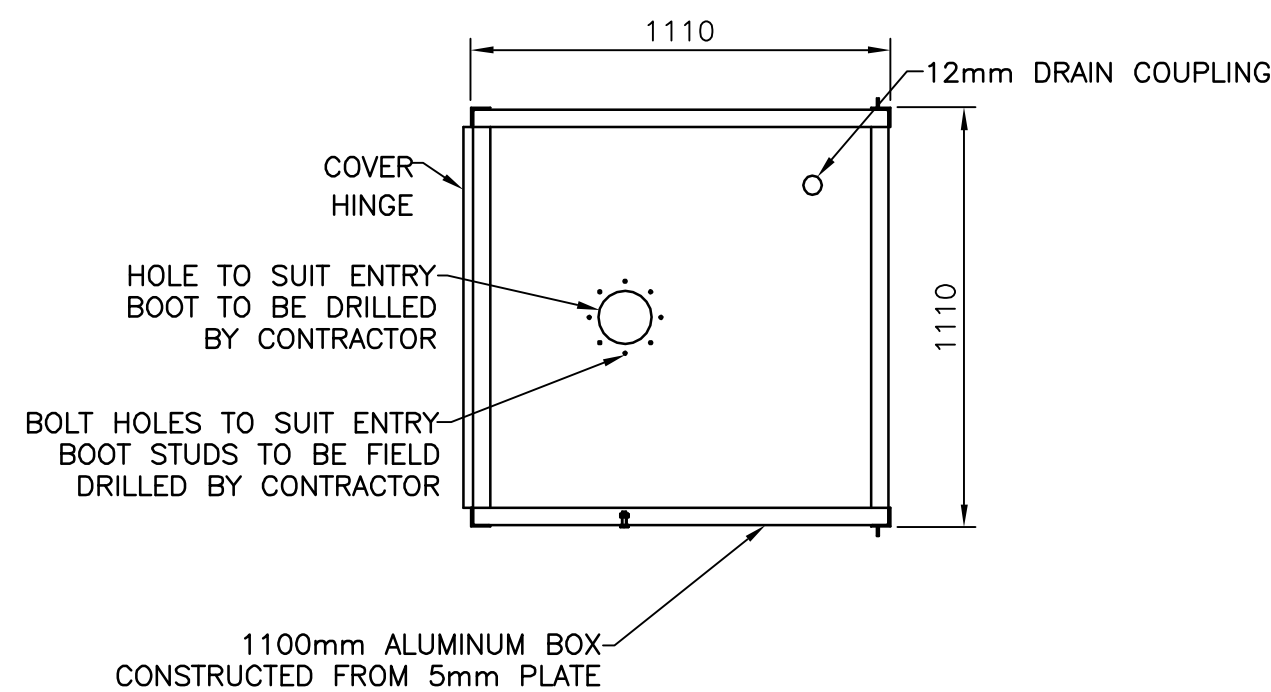
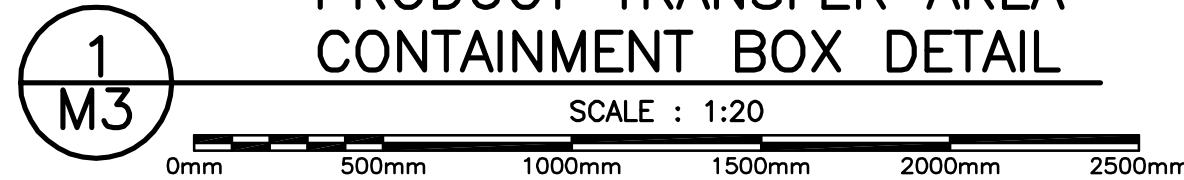
project number
R.105175.007

drawing no.
no. du dessin

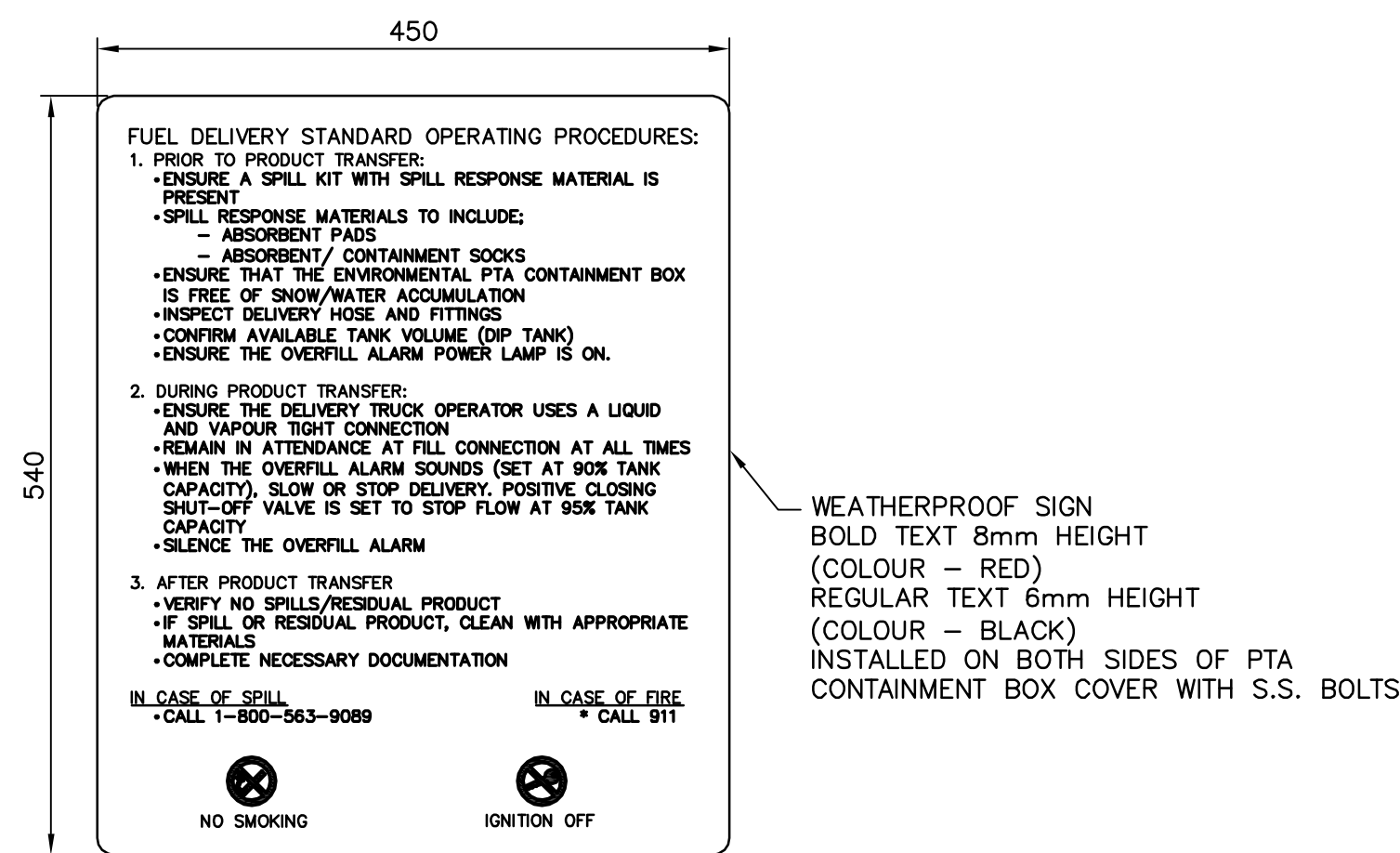
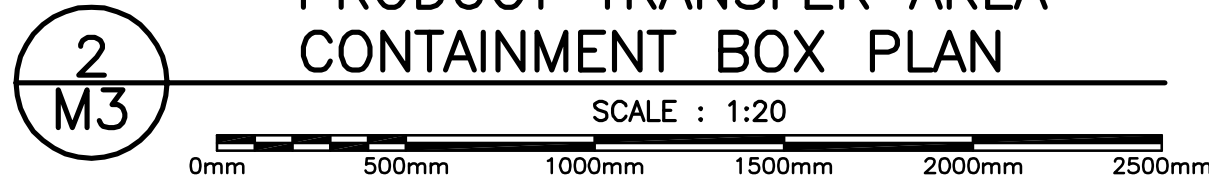
M3



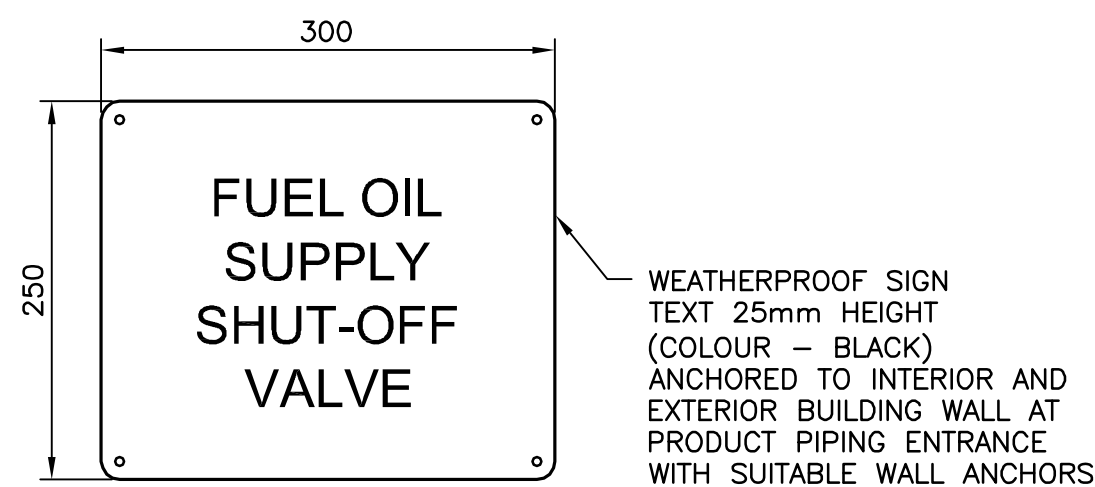
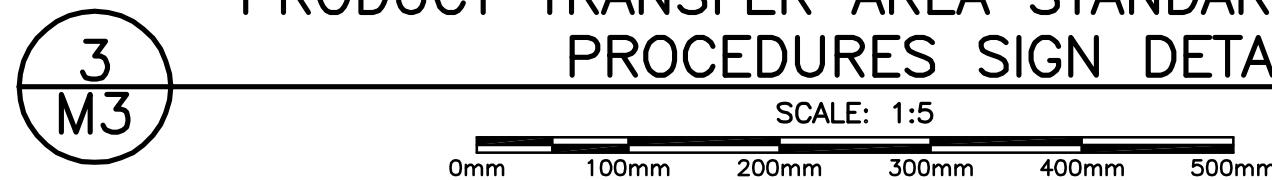
PRODUCT TRANSFER AREA CONTAINMENT BOX DETAIL



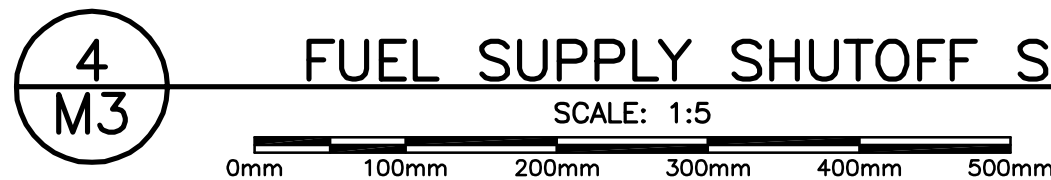
PRODUCT TRANSFER AREA CONTAINMENT BOX PLAN



PRODUCT TRANSFER AREA STANDARD OPERATING PROCEDURES SIGN DETAIL



FUEL SUPPLY SHUTOFF SIGN DETAIL



PRODUCT TRANSFER AREA:

THIS DESIGN HAS BEEN DEVELOPED TO MEET THE INTENT OF THE REQUIREMENTS FOR A PRODUCT TRANSFER AREA IN ACCORDANCE WITH THE ENVIRONMENT CANADA COMPLIANCE PROMOTION "PRODUCT TRANSFER AREA WORKSHOP - INFO SHEET AND SAMPLE WRITE-UPS FOR PRODUCT TRANSFER AREAS", DATED FEBRUARY 3, 2012, AND TANK TIP 13.

THE SIGNIFICANT ENVIRONMENTAL RISK ASSOCIATED WITH THIS STORAGE SYSTEM IS THE POSITION OF THE STORAGE TANK IN PARKLAND. THE MOST LIKELY SPILL SCENARIO WOULD BE AN OVERFILL OCCURRENCE DURING A FUEL DELIVERY. BASED ON A TYPICAL TRUCK FILLING RATE OF 280 L/MIN AND A CONSERVATIVE REACTION TIME TO STOP THE FLOW OF 2 MINUTES, THE ANTICIPATED SPILL SCENARIO (CALCULATED SPILL VOLUME) FOR THIS DESIGN IS 560L.

THE SYSTEM IS DESIGNED WITH THE FOLLOWING MITIGATION COMPONENTS:

- AUDIBLE AND VISUAL OVERFILL ALARM SET AT 90% CAPACITY TANK
- POSITIVE CLOSING OVERFILL PREVENTION DEVICE SET AT 95% TANK CAPACITY
- ENVIRONMENTAL CONCRETE TANK PAD ABOVE GRADE PRODUCT TRANSFER AREA CONTAINMENT BOX (SIZED TO CONTAIN 680L)
- ABOVE GRADE SPILL CONTAINER AT FILL PIPE CONNECTION, INSIDE PRODUCT TRANSFER AREA CONTAINMENT BOX
- PRODUCT TRANSFER AREA INSTRUCTIONAL SIGNAGE WILL BE POSTED AT FILL PIPE AREA
- EMERGENCY CONTACT SIGNAGE WILL BE POSTED
- A FULLY STOCKED SPILL KIT WILL BE LOCATED AT THE TANK AREA
- AN EMERGENCY RESPONSE PLAN, SPECIFIC TO THE STORAGE SYSTEM, WILL BE POSTED AND STAFF TRAINED