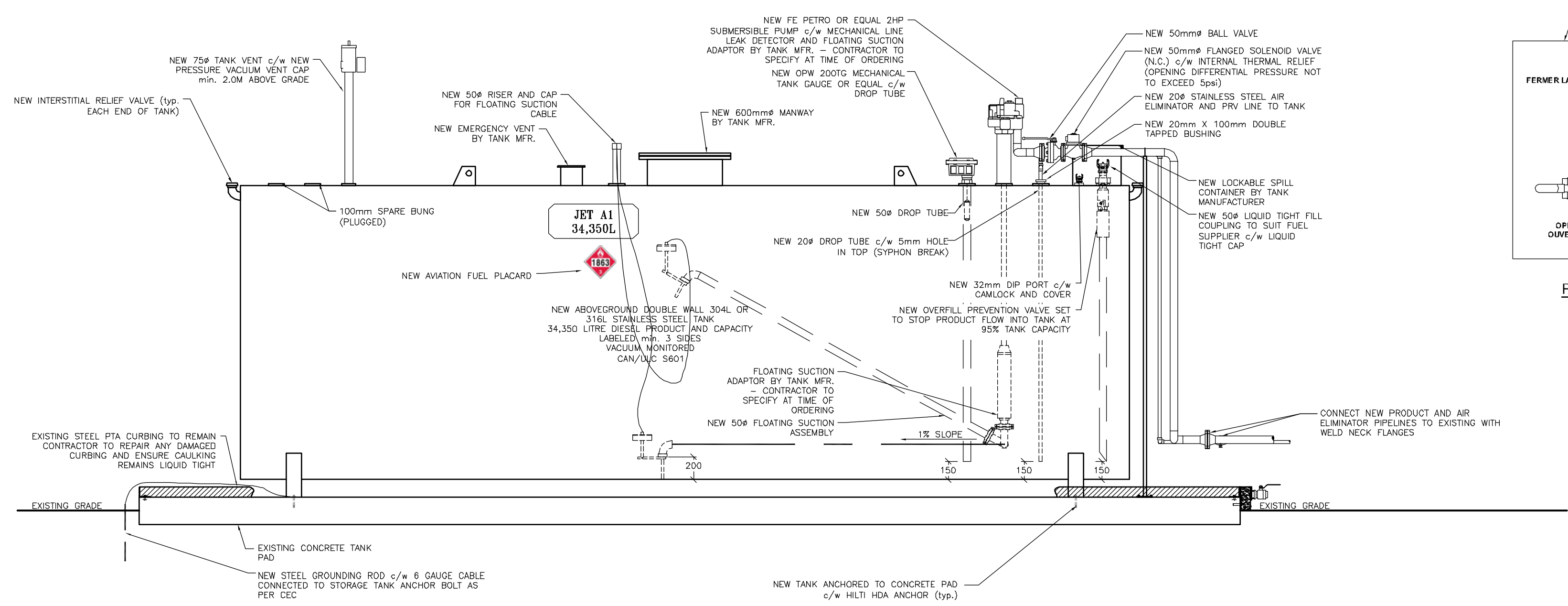


NEW TANK PLAN  
SCALE: 1:30



NEW TANK ELEVATION  
SCALE: 1:30

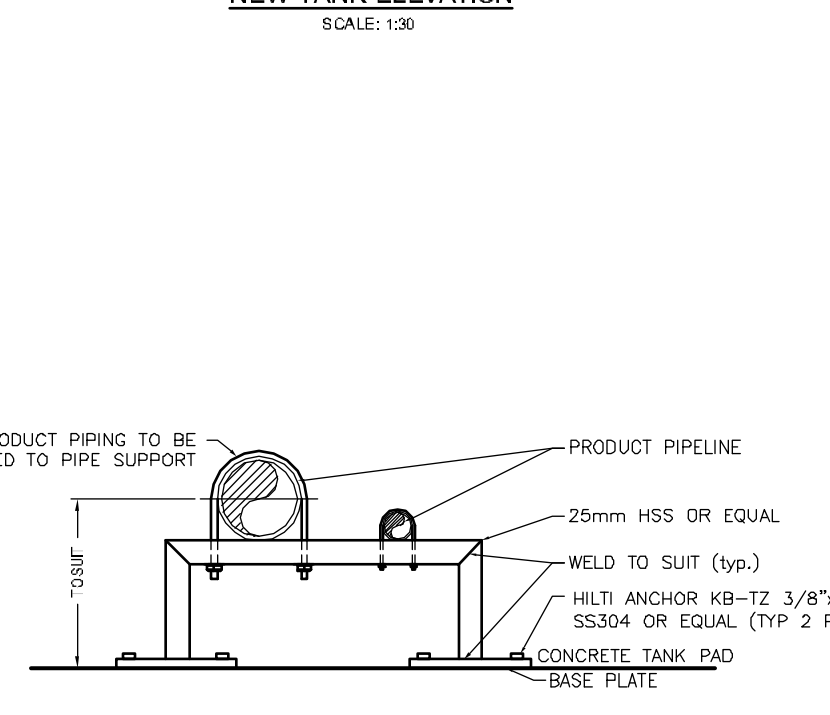
**PRODUCT TRANSFER AREA:**  
THIS DESIGN HAS BEEN DEVELOPED TO MEET THE INTENT OF A "PRODUCT TRANSFER AREA METHOD", WHICH HAS IDENTIFIED POTENTIAL ENVIRONMENTAL RISK, POTENTIAL SPILL SCENARIOS AND RISK MITIGATION ACTIONS AND OVERFILL PREVENTION FEATURES/EQUIPMENT IN CONJUNCTION WITH SPILL CONTAINMENT BEYOND THE FILL CONNECTION SPILL CONTAINMENT. SIZED TO CONTAIN THE LIKELY SPILL SCENARIOS VOLUMES. A PRODUCT TRANSFER AREA METHOD IS FURTHER DESCRIBED IN ENVIRONMENT CANADA COMPLIANCE PROMOTIONS "PRODUCT TRANSFER AREA WORKSHOP" - INFO SHEET AND SAMPLE WRITE-UPS FOR PRODUCT TRANSFER AREAS - FEBRUARY 3, 2012.

**PRODUCT TRANSFER AREA NOTE:**  
THE EXISTING CONCRETE TANK PAD HAS BEEN MODIFIED WITH A CONCRETE PERIMETER CURB TO PROVIDE APPROXIMATELY 2000 LITRES OF CONTAINMENT IN THE AREA IMMEDIATELY SURROUNDING THE STORAGE TANK. FURTHERMORE, THE SYSTEM OWNER HAS IMPLEMENTED INDUSTRY ACCEPTED OVERFILL PREVENTION DEVICES TO ALERT DELIVERY PERSONNEL WHEN THE TANK IS APPROACHING FULL CAPACITY.

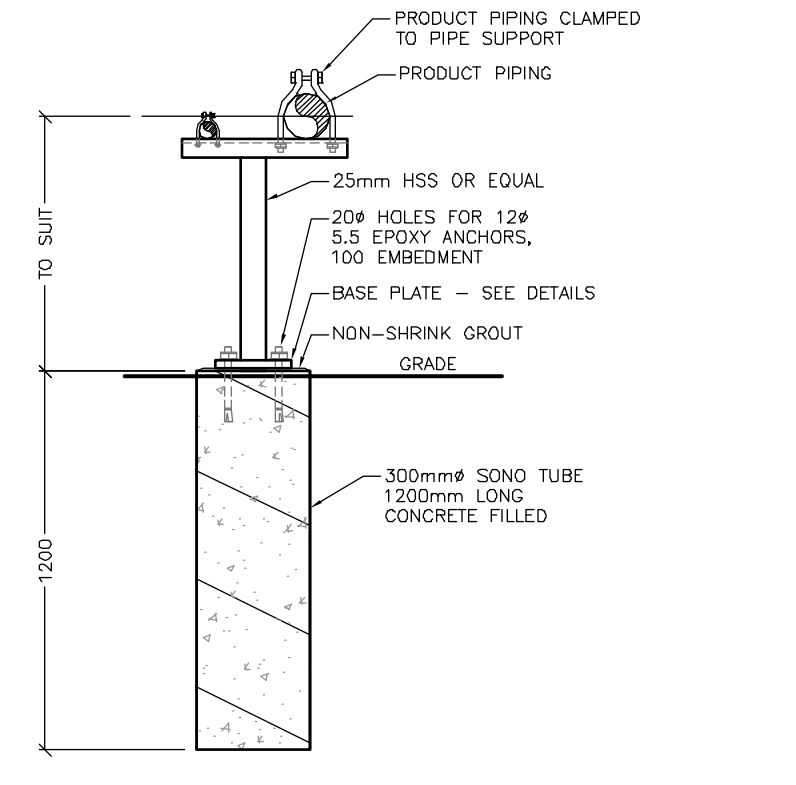
THE NEW SYSTEM IS EQUIPPED WITH:

1. A POSITIVE CLOSING SHUT OFF VALVE, INSTALLED IN THE FILL PIPE, TO STOP THE FLOW OF FUEL INTO THE TANK ONCE THE VOLUME HAS REACHED 95% CAPACITY.

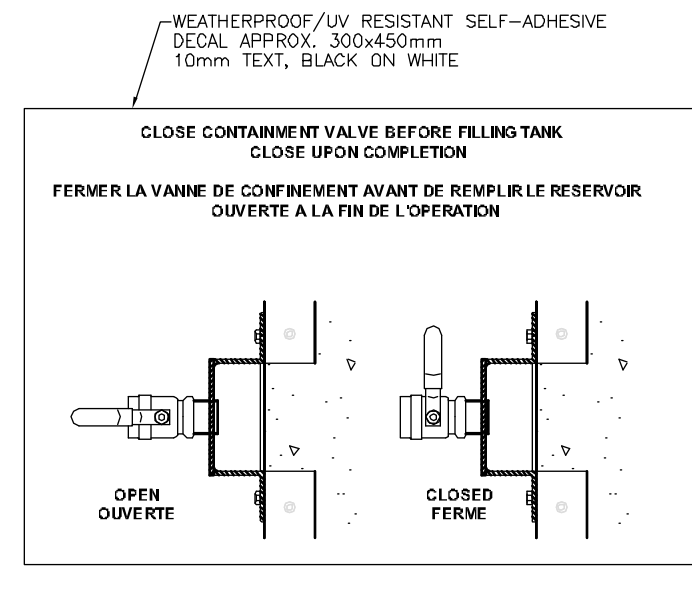
A FULLY STOCKED SPILL KIT IS PROVIDED AT THE STORAGE TANK SYSTEM. ADDITIONAL SAFETY SIGNAGE, COMPLETE WITH EMERGENCY CONTACT INFORMATION, HAS BEEN POSTED. AN EMERGENCY PLAN HAS BEEN COMPLETED AND HAS BEEN POSTED.



PIPE SUPPORT DETAIL  
SCALE: 1:5



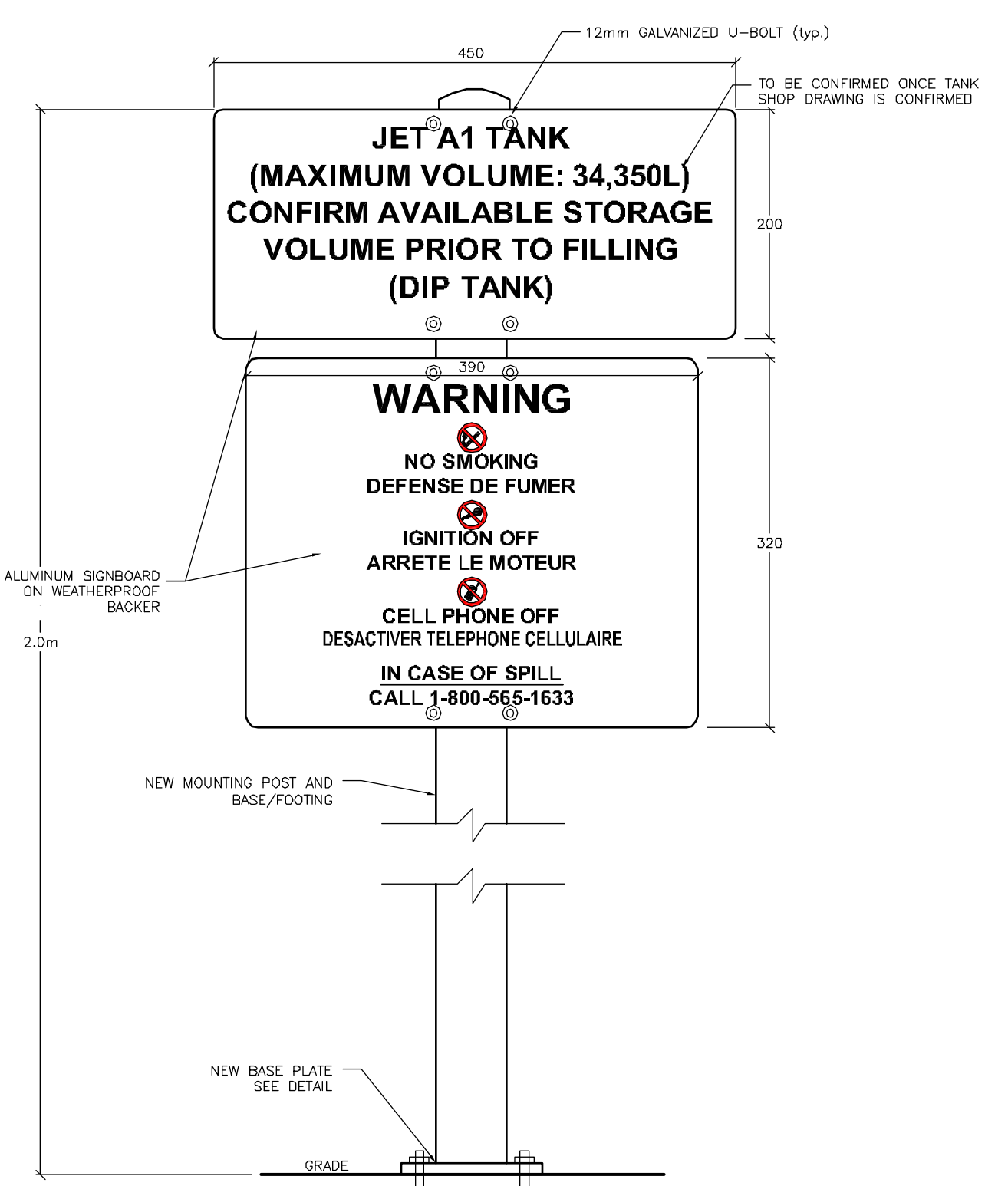
PIPE SUPPORT ON GROUND DETAIL  
SCALE: 1:10



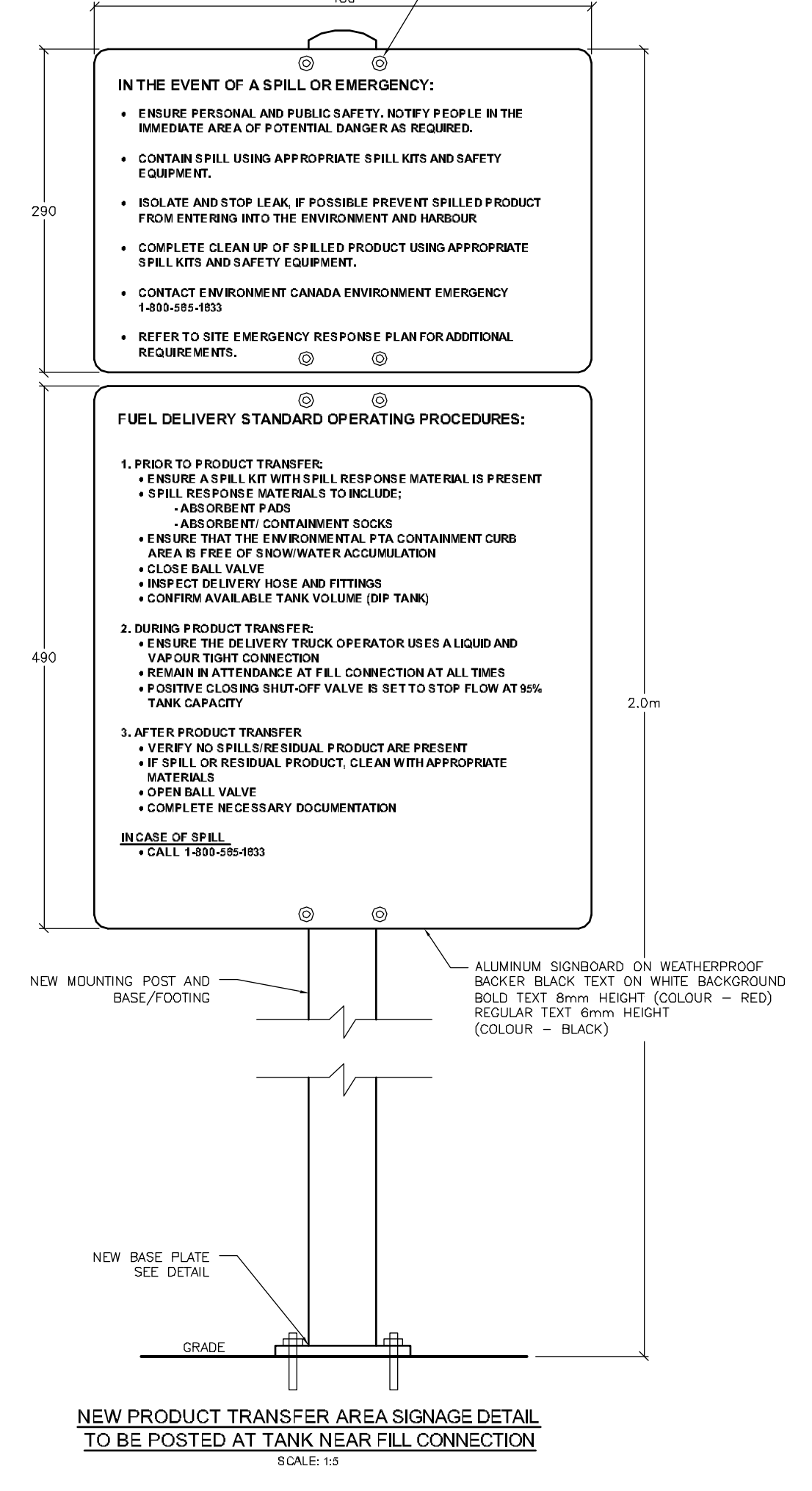
PTA INSTRUCTION DECAL DETAIL  
(MOUNT ON SPILL BOX)  
SCALE: 1:5



NEW SIGNAGE AND PIPE SUPPORT BASE  
SCALE: 1:5



NEW SAFETY SIGNAGE DETAIL  
TO BE POSTED AT TANK  
SCALE: 1:5



NEW PRODUCT TRANSFER AREA SIGNAGE DETAIL  
TO BE POSTED AT TANK NEAR FILL CONNECTION  
SCALE: 1:5

- NOTES:
- 1) INSTALLER TO ADVISE LOCATION OF ALL PROPERTY BOUNDARIES, STRUCTURES, UTILITIES, ROADS/DRIVEWAYS, WELLS, WATERCOURSES AND WATERBODIES BEFORE BEGINNING OF WORK.
  - 2) INSTALLER TO ADVISE ENGINEER OF ANY ADDITIONS OR CHANGES TO SITE PLAN RESULTING FROM NOTE 1 PRIOR TO BEGINNING OF WORK.
  - 3) ALL INSTALLATIONS SHALL COMPLY WITH FEDERAL REGULATIONS, THE NATIONAL FIRE CODE OF CANADA, THE CANADIAN ELECTRICAL CODE, STORAGE, B836.14 "HANDLING AND DISPENSING OF AVIATION FUELS AT AERODROMES CODE", AS WELL AS ANY OTHER GOVERNING CODES AND INSTALLATION PRACTICES.
  - 4) THE EMERGENCY STOP BUTTONS SHALL SHUT DOWN ALL POWER TO THE SUBMERSIBLE PUMP, CABINET & SOLENOID WHEN PRESSED.
  - 5) THE EMERGENCY STOP BUTTON MUST BE REMOTELY LOCATED, c/w SIGNAGE (7-30m FROM THE DISPENSING AREA) (CLEARLY VISIBLE FROM FUEL-DISPENSING AREA).
  - 6) CONTRACTOR TO VERIFY INTEGRITY OF TANK INTERSTITIAL VACUUM PRIOR TO INSTALLATION.
  - 7) SYSTEM OWNER TO ENSURE MEASURES ARE TAKEN TO PREVENT UNAUTHORIZED ACCESS TO THE STORAGE TANK AND AUXILIARY EQUIPMENT.
  - 8) ALL NEW EQUIPMENT SHALL BE UL/C LISTED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
  - 9) OWNER IS RESPONSIBLE TO ENSURE AN APPROPRIATE EMERGENCY PLAN IS IMPLEMENTED TO MEET THE REQUIREMENTS OF THE CANADIAN ENVIRONMENTAL PROTECTION ACT, STORAGE TANK SYSTEMS FOR PETROLEUM PRODUCTS AND ALLIED PETROLEUM PRODUCTS REGULATIONS, 2008 (CEPA) SECTIONS 30-32.
  - 10) PRIOR TO OPERATION, AS BUILT DRAWINGS BEARING AN ENGINEER'S STAMP MUST BE COMPLETED.
  - 11) SPILL KIT AND/OR ABSORBENT MATERIAL REQUIRED AT FUEL-DISPENSING AREA.
  - 12) CONCRETE SPECIFICATIONS:  
SOIL BEARING CAPACITY: 1500psf min.  
CONCRETE STRENGTH: 35MPa @ 28 DAYS, 5% TO 8% AIR ENTRAINMENT.  
FINISH: BROOM, ADD ONE COAT SEALING COMPOUND, ALL OUTSIDE EDGES OF CONCRETE TO BE TOOLED A MINIMUM OF 38mm WIDE.  
REBAR: 40MPa.
  - 13) DO NOT UNDERMINE OR COMPROMISE ANY FOOTINGS OR FOUNDATION STRUCTURES. ALWAYS BE AWARE OF THE LOCATION OF EXISTING UTILITIES AND OVERHEAD POWER LINES.
  - 14) EXCAVATION TO BE BACKFILLED WITH 31.5mm CRUSHED GRAVEL.
  - 15) ALL FILL WILL BE PLACED IN LIFTS NOT EXCEEDING 300mm IN LOOSE THICKNESS AND BE COMPACTED THROUGHOUT THE LIFT THICKNESS TO A MAXIMUM OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY. DEPENDING ON THE COMPACTION EQUIPMENT, THINNER LIFTS MAY BE NECESSARY IN ORDER TO ACHIEVE THE SPECIFIED COMPACTION CRITERIA.
  - 16) IF FURTHER CLARIFICATIONS ARE REQUIRED ON EQUIPMENT OR THE INSTALLATION OF EQUIPMENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST CLARIFICATIONS FROM THE CONSULTANT.
  - 17) THESE DRAWINGS TO BE USED FOR GENERAL GUIDANCE SHOWING APPROXIMATE EQUIPMENT ARRANGEMENT ONLY.
  - 18) THE SYSTEM IS REQUIRED TO BE EQUIPPED WITH THE FOLLOWING FEATURES:  
- OVERFILL PREVENTION VALVE  
- ANTI-SYPHON DEVICE OR N.C. SOLENOID VALVE c/w THERMAL RELIEF  
- SPILL CONTAINMENT BOX  
- PTA CONTAINMENT CURB  
- EMERGENCY SHUT-OFF DEVICE FOR ALL POWER TO SYSTEM  
- 2 x ABC-C FIRE EXTINGUISHERS (PURPLE K PREFERRED)  
- FULLY STOCKED SPILL KIT  
- EMERGENCY AND SAFETY SIGNAGE
  - 19) ENVIRONMENT CANADA NUMBER REQUIRED TO BE POSTED AT THE FILL PIPE CONNECTION OF EACH STORAGE TANK
  - 20) OWNER MUST NOTIFY ENVIRONMENT CANADA WITH IN 60 DAYS ONCE REGULATED SYSTEMS ARE REMOVED (CEPA SECTION 44)

STAMP	STAMP	
<p>NOTE: THIS DRAWING ILLUSTRATES INFORMATION SPECIFIC TO A STANTEC CONSULTING LIMITED PROJECT AND MUST NOT BE USED FOR OTHER PURPOSES.</p>		
APP'D NO.	ISSUED FOR TENDER	15 12 07
APP'D NO.	ISSUED FOR CLIENT REVIEW	15 11 26
REVISIONS		
DWG. NO.	DESCRIPTION	DATE
REFERENCES		
PROJECT:		
<b>JET A1 DISPENSING SYSTEM REPLACEMENT</b>		
SITE ADDRESS:		
CCG HANGAR SHEARWATER 12 WING SHEARWATER, DARTMOUTH, NS		
CLIENT:		
DFO RPSS		
JOB No.:	SCALE:	DATE:
121611747	1:200	15/11/20
DRAWN BY:	DESIGNED BY:	APPROVED BY:
JCB	ERF	DT
DRAWING TITLE:		
<b>PHASE 1          NEW JET A1 TANK PLAN, ELEVATION          &amp; GENERAL ARRANGEMENT</b>		
DRAWING No.:	REVISION No.:	
03	-	