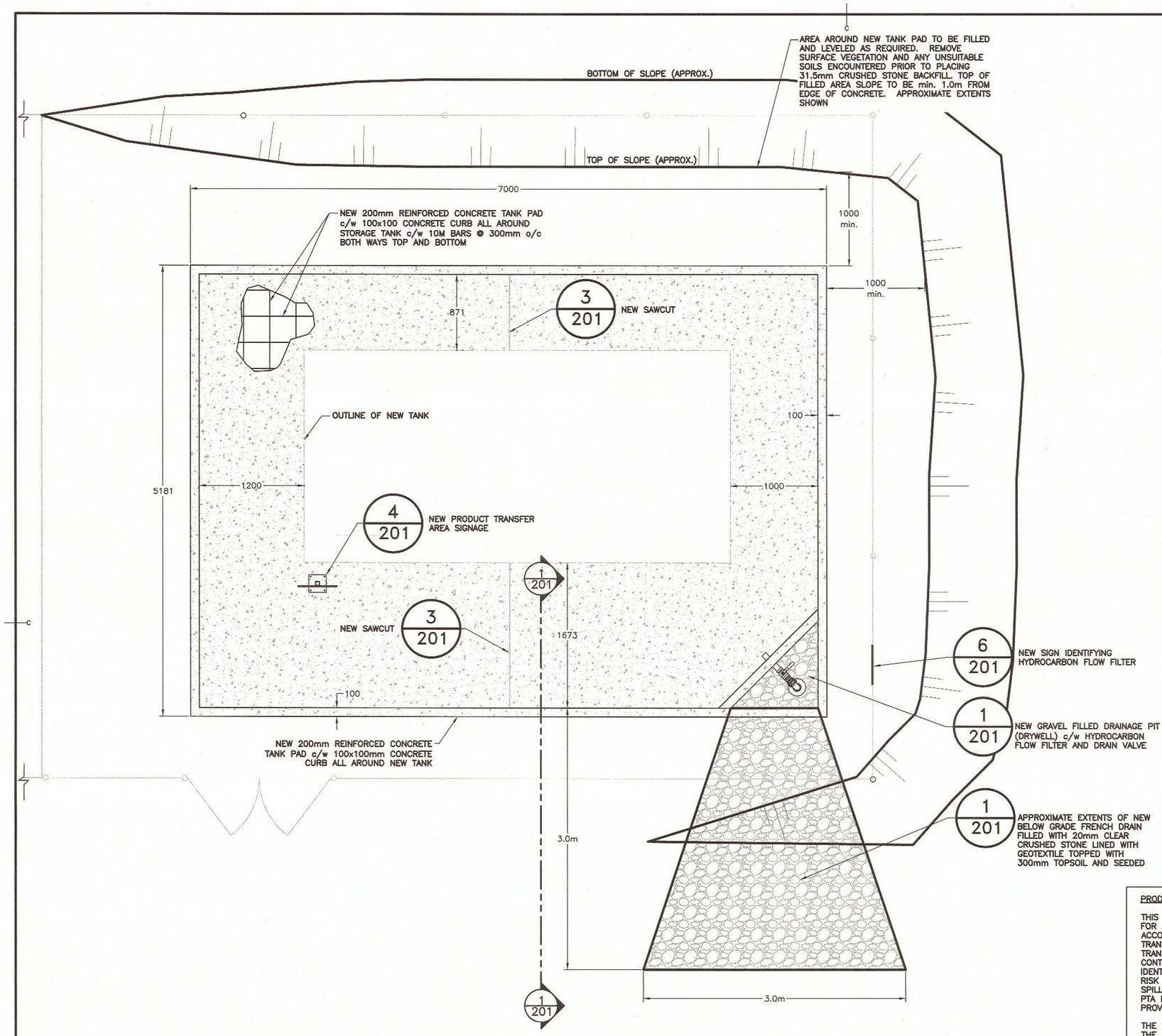


1/200 NEW PRODUCT TRANSFER AREA PLAN

SCALE: 1:25

0mm 500mm 1000mm 1500mm 2000mm 2500mm

**NOTE:**
**PHASED PROJECT APPROACH IS BASED ON THE ASSUMED LONG DELIVERY TIME FOR THE NEW JET A FUEL–DISPENSING CABINET. ALL WORK TO BE COMPLETED AS MAJOR COMPONENTS (STORAGE TANK/FUEL–DISPENSING CABINET) BECOME AVAILABLE.**

**PRODUCT TRANSFER AREA:**

THIS DESIGN HAS BEEN DEVELOPED TO MEET THE INTENT OF THE REQUIREMENTS FOR A PRODUCT TRANSFER AREA THROUGH A "PTA METHOD" APPROACH 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 – SPILL CONTAINMENT AT PRODUCT TRANSFER AREAS DATED 2016. A PTA METHOD IDENTIFIES POTENTIAL ENVIRONMENTAL RISK AND SPILL SCENARIOS AS WELL AS RISK MITIGATION ACTIONS AND SYSTEM SAFETY COMPONENTS ASSOCIATED WITH SPILLS RESULTING FROM PRODUCT TRANSFER INTO A STORAGE TANK SYSTEM. A PTA METHOD MUST ALSO INCLUDE PHYSICAL CONTAINMENT BEYOND CONTAINMENT PROVIDED BY A FILL PIPE SPILL CONTAINMENT BOX.

THE SIGNIFICANT ENVIRONMENTAL RISK ASSOCIATED WITH THIS STORAGE SYSTEM IS THE PROXIMITY TO THE BAY OF FUNDY. THE MOST LIKELY SPILL SCENARIO WOULD BE AN OVERFILL OCCURRENCE DURING A FUEL DELIVERY. BASED ON A TYPICAL TRUCK FILLING RATE OF 800 L/MIN AND A CONSERVATIVE REACTION TIME TO STOP THE FLOW OF 3 MINUTES, THE ANTICIPATED SPILL SCENARIO (CALCULATED SPILL VOLUME) FOR THIS DESIGN IS 2400L.

THE SYSTEM IS DESIGNED WITH THE FOLLOWING MITIGATION COMPONENTS:

- VENT WHISTLE SET AT 90% CAPACITY TANK
- POSITIVE CLOSING OVERFILL PREVENTION DEVICE SET AT 95% TANK CAPACITY
- ENVIRONMENTAL CONCRETE TANK PAD WITH PERIMETER CURB (SIZED TO CONTAIN 3620L)
- TANK MANUFACTURER SUPPLIED SPILL CONTAINMENT BOX AT FILL PIPE CONNECTION
- 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

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada
Fisheries and Ocean Canada / Pêches et Océans Canada

Stantec

REGISTERED PROFESSIONAL ENGINEER Province du Nouveau-Brunswick M7530 James B. Sloat Date INGÉNIEUR IMMATRICULÉ

| revisions | | date |
|---|---|---|
| 3 | ISSUED FOR TENDER | 11/07 2016 |
| 2 | ISSUED FOR 99% REVIEW | 10/11 2016 |
| 1 | ISSUED FOR 66% REVIEW | 09/07 2016 |

project / projet

JET A FUEL–DISPENSING SYSTEM
SOUTHWEST HEAD
GRAND MANAN, NB

drawing / dessin

NEW PRODUCT TRANSFER AREA PLAN (PHASE 1)

designed / conçu J. BURRY
date –
drawn / dessiné M. CLARK
date AUG 24, 2016
approved / approuvé E. FINNAMORE
date –
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC 2016.12.08
project number / no. du projet R.070007.017
drawing no. / no. du dessin 200

PWGSC A1 (2004)

0 10 20mm 40 60 80 100 120 140 160 180 200mm

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