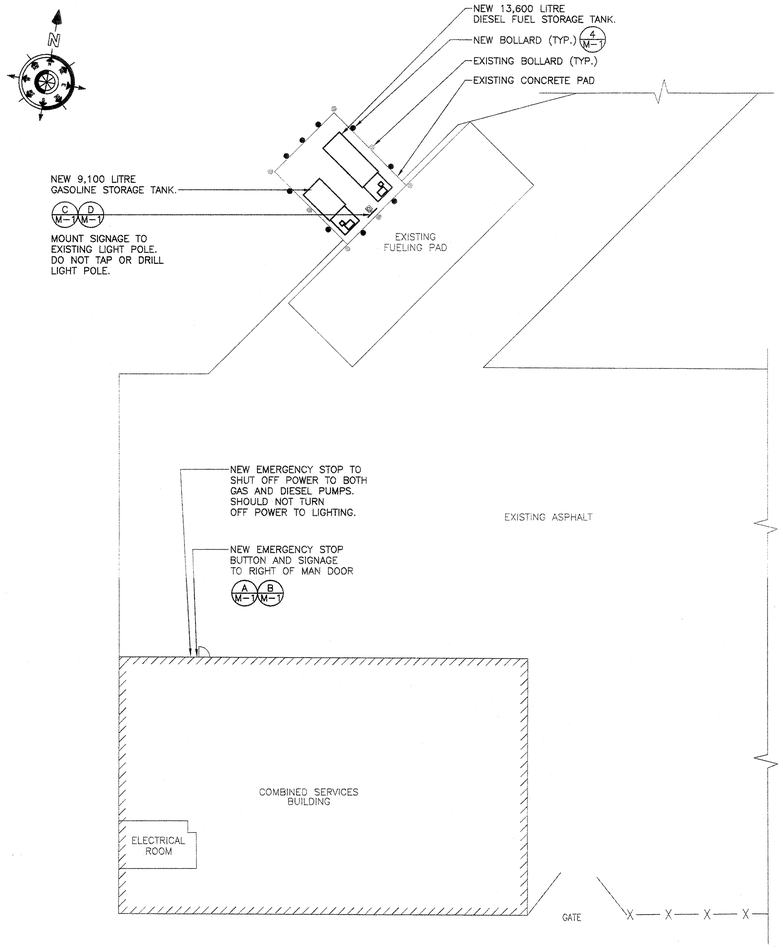
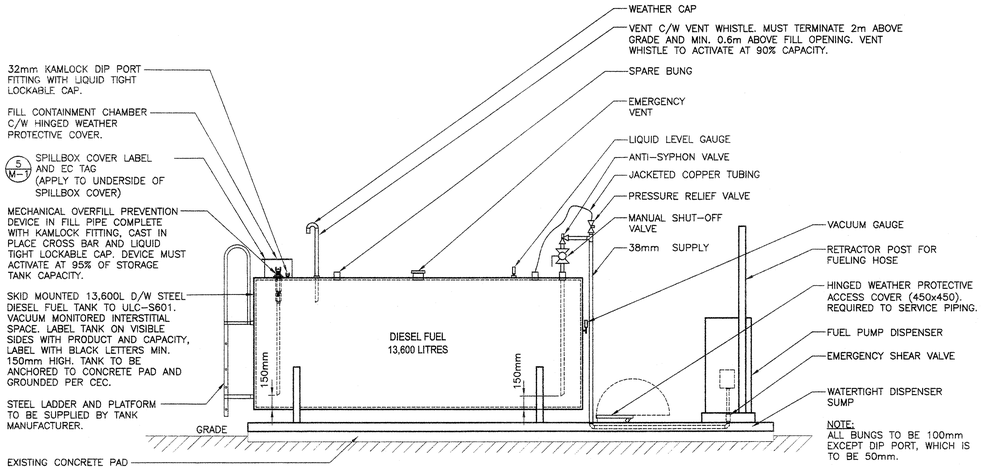


PARTIAL SITE PLAN 1/M-1

SCALE: 1:200

0m 5m 10m 15m 20m 25m



NEW DIESEL FUEL STORAGE TANK SYSTEM — ELEVATION 2/M-1

SCALE : N.T.S.

PRODUCT TRANSFER AREA ASSESSMENT:

1. THE REQUIREMENT FOR A PRODUCT TRANSFER AREA TO BE DESIGNED TO CONTAIN SPILLS HAS BEEN ADDRESSED THROUGH STANTEC'S "RISK BASED TOOL FOR SPILL CONTAINMENT AT PRODUCT TRANSFER AREAS". THIS TOOL ASSESSES VARIOUS ATTRIBUTES ASSOCIATED WITH THE PROPOSED SYSTEM AND THE CONDITIONS ON SITE. THE ATTRIBUTES ARE QUANTIFIED INTO ASSOCIATED RISK VALUES AND CATEGORIZED INTO A GENERAL CLASSIFICATION BASED ON THE POTENTIAL LIKELIHOOD AND CONSEQUENCE OF A POSSIBLE SPILL INCIDENT. EXAMPLES OF RISK MITIGATION FACTORS WOULD BE THE PROXIMITY TO A BODY OF WATER, SOIL CONDITIONS, RESPONSE TIME FOR ADDITIONAL SPILL RESPONSE, OVERFILL PREVENTION MEASURES AND THE NUMBER OF FILLS PER YEAR.

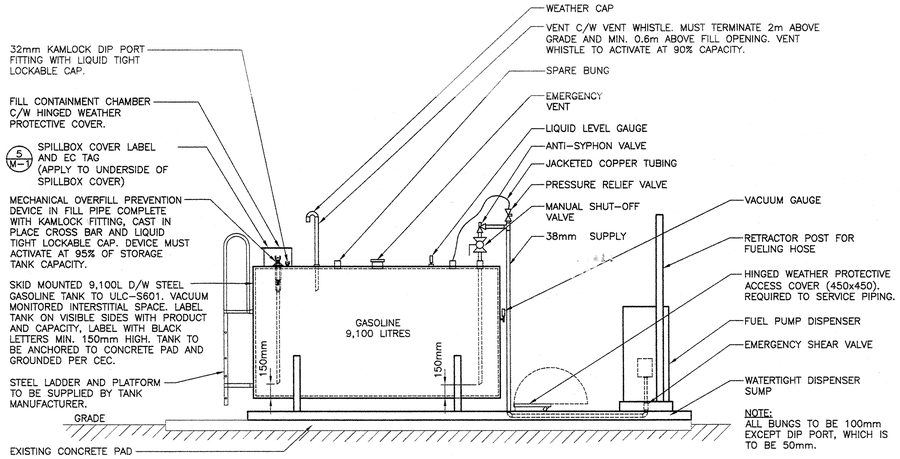
IN THIS SITUATION, THE MAJOR FACTORS ARE THE NEW SYSTEM WILL HAVE MULTIPLE MEANS TO PREVENT OVERFILLING, THE AREA WHERE THE TRUCK PARKS IS CONCRETE AND ASPHALT, THE CLOSEST CATCH BASIN IS AT LEAST 10 METRES AWAY, AND THE OWNER HAS AGREED TO ENSURE A WELL STOCKED SPILL KIT IS ALWAYS AVAILABLE ON SITE AND ALL FILLS WILL BE SUPERVISED.

THE RESULTING CLASSIFICATION IS USED TO DETERMINE THE APPROPRIATE RECOMMENDATIONS TO MITIGATE THE RISKS ACCORDINGLY. THE RESULTS AND RECOMMENDATIONS FOR MITIGATING THE ASSOCIATED RISKS ARE PROVIDED AS FOLLOWS:

PRODUCT TRANSFER AREA RISK BASED ASSESSMENT:
CONSEQUENCE: MEDIUM
LIKELIHOOD: LOW
OVERALL: LOW

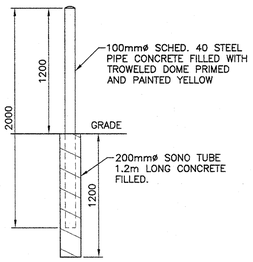
RECOMMENDATIONS FOR ST. ANTHONY TO MITIGATE RISK OF AN OVERFILL OR SPILL:
SUPERVISION OF ALL PRODUCT TRANSFERS
EMERGENCY/SPILL RESPONSE TRAINING
REGULAR MAINTENANCE OF THE SYSTEM
SPILL KIT READILY AVAILABLE AT THE PTA
DESIGNATE A PARKING AREA ON THE CONCRETE FOR THE FUEL TRUCK DURING ALL PRODUCT TRANSFERS

ENVIRONMENT CANADA HAS NOT PROVIDED CLEAR DIRECTION ON WHAT IS EXPECTED AT PTAS, THEREFORE, IT SHOULD BE NOTED THAT STANTEC HAS CONSIDERED THE PTA IN THIS DESIGN AND THE RESULT IS BASED ON SOUND ENGINEERING PRINCIPLES, YEARS OF EXPERIENCE ON SIMILAR FEDERAL SITES AND BASED ON INFORMATION GATHERED DURING NUMEROUS ENVIRONMENT CANADA PTA SESSIONS.



NEW GASOLINE STORAGE TANK SYSTEM — ELEVATION 3/M-1

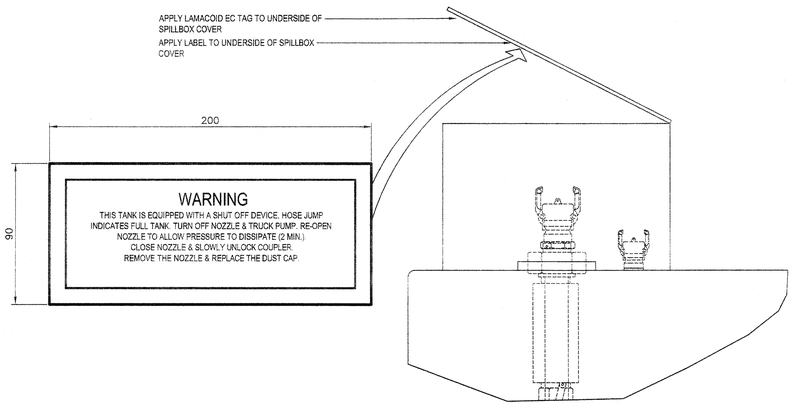
SCALE : N.T.S.



BOLLARD DETAIL 4/M-1

SCALE: 1:25

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



SPILLBOX COVER LABEL 5/M-1

SCALE : N.T.S.

EMERGENCY
FUEL
SHUT-OFF
SWITCH

NOTE:
1. LETTERING MUST BE 25mm HIGH MINIMUM
2. RED LETTERING ON WHITE BACKGROUND

EMERGENCY STOP SIGNAGE A/M-1

SCALE : N.T.S.

EMERGENCY NUMBERS

RCMP	*1-709-454-3333*
AMBULANCE	*1-709-454-3333*
FIRE	*1-709-454-3333*
ENVIRONMENT	*1-800-563-9089*

NOTE:
1. LETTERING MUST BE 25mm HIGH MINIMUM
2. RED LETTERING ON WHITE BACKGROUND

EMERGENCY TELEPHONE NUMBERS SIGNAGE B/M-1

SCALE : N.T.S.

Operational Instructions:

1. *Stop all engines*
2. *No smoking within 7.5 metres*
3. *Reset counter on pump*
4. *Remove nozzle from hanger*
5. *If fueling portable containers, place containers on concrete pad prior to fueling*
6. *Insert nozzle into vehicle or container*
7. *Do not force nozzle to remain open while fueling*
8. *Do not leave nozzle when fueling*
9. *When fueling complete, return nozzle to hanger*

Emergency fuel shut off switch located on exterior of building
Spill kits located adjacent to tanks.

NOTE:
1. LETTERING MUST BE 25mm HIGH MINIMUM
2. RED LETTERING ON WHITE BACKGROUND

OPERATIONAL INSTRUCTIONS SIGNAGE C/M-1

SCALE : N.T.S.

WARNING:

No Smoking

Stop Motor

No Cell Phones

NOTE:
1. LETTERING MUST BE 25mm HIGH MINIMUM
2. RED LETTERING ON WHITE BACKGROUND
3. SYMBOLS MUST BE 100mm DIAMETER MINIMUM

ALL SIGNS TO BE MOUNTED ON ALUMINUM AND THEN AFFIXED WITH SCREWS TO 19mm THICK PLYWOOD CUT TO SUIT AND PAINTED WHITE ON EDGES AND BACK

INFORMATIONAL SIGNAGE D/M-1

SCALE : N.T.S.

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

PEGNL HOLDER
STANTEC ING LTD.
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by PEG which is valid for the year 2013

TIMOTHY MATTATALL
SIGNATURE
July 23/2013
DATE
NEWFOUNDLAND & LABRADOR

revisions		date
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A	ISSUED FOR 99% REVIEW	JUNE 28 2013

project / projet
DIESEL FUEL STORAGE TANK REPLACEMENT
ST. ANTHONY AIRPORT
NEWFOUNDLAND

drawing / dessin
PARTIAL PLAN DETAILS AND NOTES

designed C. ENMAN / conçu
date 2013/07/19
drawn M. MAILLET / dessiné
date 2013/07/19
approved T. MATTATALL / approuvé
date 2013/07/19
Tender / Soumission
PWGSC Project Manager A/SPM 2013/07/25
Administrateur de projets TPSGC
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M-1

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