The following changes in the tender documents are effective immediately. This addendum will form part of the Contract documents.

1. Clarifications:

The following are responses to queries submitted during the tendering period:

1. Question: *Does the Trane system come complete with the DDC control package that is shown on M602?*

   Response: Yes the specified Trane system does come complete with a standalone DDC control package. Refer to amendment to specifications below for control package requirements.

2. Question: *Reheat coils controls are mounted with the duct heaters and cannot be mounted in the mechanical room. It is also stated that the remote thermostats for these Reheat coils are to have digital displays c/w setpoint adjustment. Digital display thermostats are not rated for moisture or low temperatures and may not last the winter.*

   Response: Coil controls may be mounted at coil provided they can be subject to -50degC temperatures while non-operational and can accommodate humidity associated with freeze/thaw of the building during its non-operational season. Where controls cannot be subject to low temperatures and or humidity, controls to be mounted in the mechanical room. Refer to question 3 response below for controller and remote temperature sensors/t-stats.

3. Question: *If you use a Nema 4 rated T775 temperature controller to control each reheat coil, you do not get remotely adjustable setpoints. Setpoints can only be adjusted in mechanical room.*

   Response: It is acceptable to have setpoints adjusted via controller located in mechanical room and have remote temperature sensors located in the space. Remote temperature sensor per amended specifications item below.

4. Question: *How do you control the heating and cooling modes on the Trane Unit? A non DDC stat may not work with the Trane AHU.*

   Response: Heating and cooling modes of AHU are to be controlled off integral AHU R/A temperature sensor. Time clock in mech/elec room to provide occupied mode signal. Setpoints for unit to be adjusted at unit control panel.

2. Amend/revise the specifications as follows:

Section 23 73 13 Article 2.0 Products

.1 Subsection 2.3 Unit Casing, clause 6. Change to read:

.6 Access panels and doors shall be fully removable without the use of specialized tools to allow complete access of interior surfaces. All doors and access panels must be lockable to prevent tampering.

.2 Add Sub-Section 2.24 Standalone DDC Controller as follows:

2.24 Standalone DDC Controller

.1 General: Standalone DDC microprocessor controller to control all unit functions, suitable for constant volume applications, complete with local and remote HMI panels. Controls to be factory mounted in main control panel and be fully commissioned at factory. Control panel must be lockable to prevent tampering.

.2 Human Interface Panel (HMI):

.1 Keypad: 16 individual touch-sensitive membrane key switches, divided into 4 sections, password protected, six main menus (Status, Setpoints, Diagnostics, Setup, Configuration, Service Mode).

.2 Display: English, 2 line X 40 character display, 5x7 dot matrix plus cursor characters, Supertwist LCD with blue characters on green background. Two or three digit coded displays not acceptable. Display must be capable of exposure to -50degC while non-operational and to -10 degC while operational with no damage.

.3 Mounting: Inside unit main control panel.

.3 Remote HMI Panel:

.1 To same requirements as HMI panel integral to unit, fully capable of same operations.

.2 Remote panel to communicate with main panel via twisted wire pairs.

.3 Panel to be located in mech/electrical room

.4 Control Components:

.1 All control components to be factory mounted, wired, and tested.

.2 Temperature sensors (thermistor)

.3 Pressure sensors (transducers)

.4 Printed circuit boards (modules):

.1 Individually replaceable for ease of service

.2 Be standalone DDC controls not dependant on communications with on site BMS system.

.3 To be complete with onboard diagnostics indicating all hardware, software, and wiring in proper operating condition

.4 To be protected to prevent RFI and voltage transients from affecting the board's circuits.

.5 All memory shall be non-volatile EEPROM type requiring no battery or capacitive backup while maintaining all data.

.5 Unit mounted HMI

.6 Remote mounted HMI

.5 Field wiring: all field wiring to be terminated at separate, clearly marked terminal strip(s).

Section 23 09 33 Article 2.0 Products

.1 Sub-Section 2.4 Temperature Sensors and Transmitters. Add clause 7 as follows:

.7 Room temperature sensors

.1 Wall mounting, in slotted type covers having brushed stainless steel finish, with guard.

.2 Element 10-50 mm long RTD with ceramic tube or equivalent protection or thermistor, 10,000 ohm, accuracy of plus or minus 0.2 degrees C.

.2 Add Sub-Section 2.24 Standalone Electronic Controller as follows:

2.24 Standalone Electronic Controller

.1 General: standalone programmable electronic temperature controller capable of on/off and or modulating control based on temperature as indicated on drawings complete with integral LCD screen.

.2 Operating range: 0 - 10 V DC or 4 - 20 mA DC.

.3 Duct Reheat Coil Controller:

.1 Minimum three (3) inputs for room temperature sensor/thermostat, duct temperature sensor, and outdoor air temperature sensor.

.2 Modulating output for controlling electric duct heating coil based on temperature sensors and setpoint.

Section 21 13 16 Sub-Section 2.13 Pre-Action / Deluge Alarm Valve.

.1 Delete Sub-Section in its entirety.

Section 20 15 00 Article 2.3.

.1 Revise article 2.3 to read: **2.3 EXTERIOR MAIN FUEL OIL STORAGE TANK**

.2 Clause 2. Change to read:

.2 Entire assembly including tank and secondary containment assembly to be ULC listed and constructed to ULC/ORD-C80.1-12.

.3 Clause 5 – "Factory applied paint...". Change to read:
.5 Factory applied gelcoat finish, color to be factory standard white.

.4 Clause 6. Change to read:
.6 Tank shall be fabricated from non-metallic fiberglass reinforced plastic (FRP).

.5 Clause 10 – remote Fill Point. Change to read:
.10 Locking Spill Box
.4 Fill point shall be located in a locking leak proof spill box, mounted to top of fuel oil tank.
.5 12 gauge epoxy coated steel or stainless steel construction.
.6 Weather tight cover, lockable hatch.
.7 Capacity: 65L minimum
.8 Approvals: CAN/ULC-S663 or ULC/ORD-C58.19

.6 Clause 11 – Tank Tray Containment Pan. Delete article in its entirety, replace with the following:
.11 Flexible Connection
.9 Approvals: CSA/UL listed for fuel oil service.
.10 Inner hose: Type 321 stainless steel.
.11 Jacket: Braided wire mesh, type 301 stainless steel outer jacket.
.12 Diameter and type of end connection to suit piping system installed.
.13 Operating conditions: 1034 kPa, working temperature -40 degC to 93degC, to match system requirements.
.14 Minimum length: 450 mm.

3. Amend/revise the drawings as follows:

1. M001 at about grid 1a/G: Add exterior fuel tank at north side of existing stairs. Refer to structural drawing S5 for location.

2. M104, plan 1. Revise smoke exhaust system between grid 1 & 5 as per attached sketch 1/SKM-001.

3. M104, plan 3. Revise smoke exhaust fan elevation as per attached sketch 3/SKM-001.

4. M104, Keynotes. Revise keynote #4 as per the attached keynotes on sketch SKM-001.

5. M201 – Fire Protection Plans. A fire curtain will be installed at the proscenium opening on grid 5 in lieu of a deluge system. Delete Deluge system in its entirety. Revise drawing as follows:
   a. Detail 5. Delete.
   b. Detail 8. Delete Deluge valve and all associated trim including butterfly valve with tamper switch.
   c. Detail 7. Delete air maintenance device associated with deluge valve.
   d. Detail 2. Delete Deluge valve and all associated trim, butterfly valve with tamper switch, and all sprinkler pipe from 150 tee.
   e. Detail 2. Delete 150x150x150 tee. Connect Dry Valve directly to 150mm dia riser pipe downstream of backflow preventer.
   f. Detail 1. Delete all reference to 38mm dia deluge piping.

6. M202 – Fire Protection Plans. A fire curtain will be installed at the proscenium opening on grid 5 in lieu of a deluge system. Delete Deluge system in its entirety. Revise drawing as follows:
   a. Plan 1. On grid 1 between grid G and E, delete 38mm dia deluge pipe from TOHD connection at sprinkler tree in mechanical room to pipe drop at about grid 1/E.
   b. Plan 1. Delete 38mm dia deluge riser at grid 1/E.
   c. Plan 2. Delete 38mm dia deluge line from grid 1/E to 5/E and from 5/E across stage opening to grid 5/B.

7. M401 – Mechanical Room Plans
   a. Plan 1. Relocate fuel oil tank TK-1 to bldg exterior. Location as per structural drawing S5.
   b. Plan 1. Delete provision of exterior fuel oil fill point.
   c. Plan 1. Delete provision of concrete pad below indoor fuel tank.
   d. Plan 2. Delete FO tank vent through wall c/w elbow down.

8. M601, detail 1.
   a. Replace fuel oil schematic with attached schematic SKM-002.
   b. Provide fuel oil tank stand per attached detail SKM-003.
   c. Provide fuel oil pipe support per attached detail SKM-004.

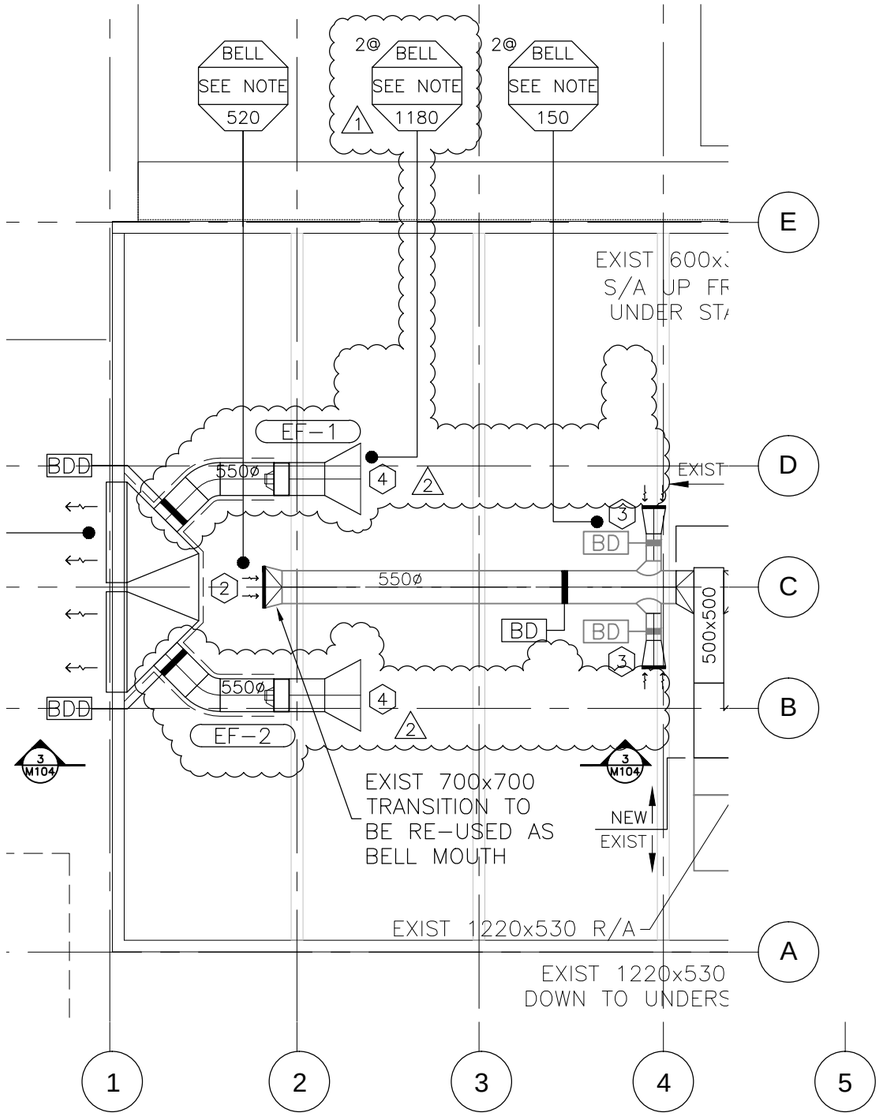
9. M602, detail 3.
   a. Revise “Space temp sensor/setpoint” to “Space temp sensor”.
      Clarification: space temperature setpoint to be adjustable at controller in mechanical room with temperature being sensed at remote temperature sensor.

10. M701 – mechanical schedules.
    a. Fan schedule EF-1 – change air flow to read 1180 L/s. HP = 1/2, RPM = 1770
    b. Fan schedule EF-2 – change air flow to read 1180 L/s. HP = 1/2, RPM = 1770
    c. Tank Schedule TK-2.1 – change volume to read 909 L, dimensions = 613 x 1651 x 1340

4. Attachments:

1. SKM-001 – Revised Partial Mechanical Plans: Attic Ventilation (plan 1/M104), 1 pg.
2. SKM-002 – Revised Fuel Oil Schematic, 1 pg.
3. SKM-003 – Fuel Oil Tank Stand Detail, 1 pg
4. SKM-004 – Fuel Oil Line Support Detail, 1 pg

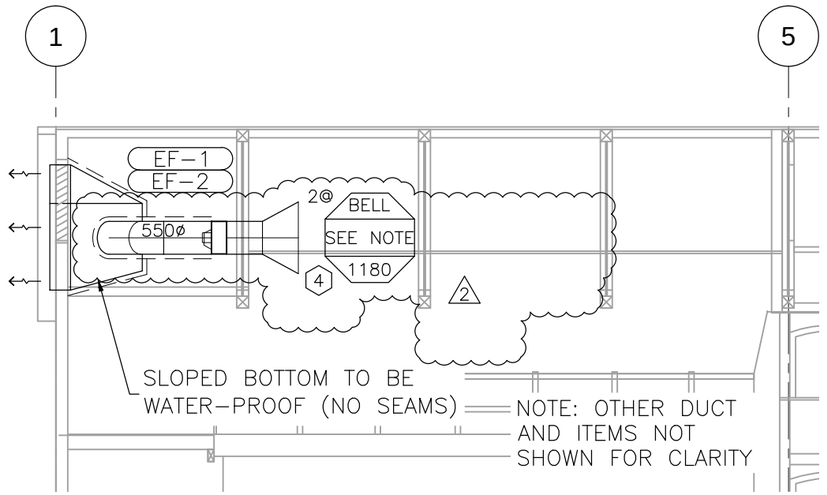
END OF ADDENDUM



1 SKM-001 PARTIAL VENTILATION PLAN – ATTIC SPACE
SCALE: 1:100

KEYNOTES

1. INSTALL NEW FIRE DAMPER IN PROSCENIUM ARCH WALL.
2. PROVIDE 13x13mm BIRSCREEN OVER EXISTING OPENING
3. RELOCATED 400ø R/A BELL MOUTH C/W NEW 13x13mm BIRDSCREEN OVER OPENING
4. PROVIDE NEW 1200øx600 BELLMOUTH C/W 13x13mm BIRDSCREEN OVER OPENING (2)



3 SKM-001 SMOKE EXHAUST FAN SECTION
SCALE: 1:100

CONSTRUCTION

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Revision/ Revision	Description/Description	Date/Date
2	ADDENDUM M-001	16/11/08

Client/client

PARKS CANADA AGENCY

WESTERN AND NORTHERN REGION

Project title/Titre du projet

DAWSON CITY
YUKON TERRITORY

PALACE GRAND THEATER

FOUNDATION / MECHANICAL / ELECTRICAL RENOVATION AND GENERAL UPGRADE

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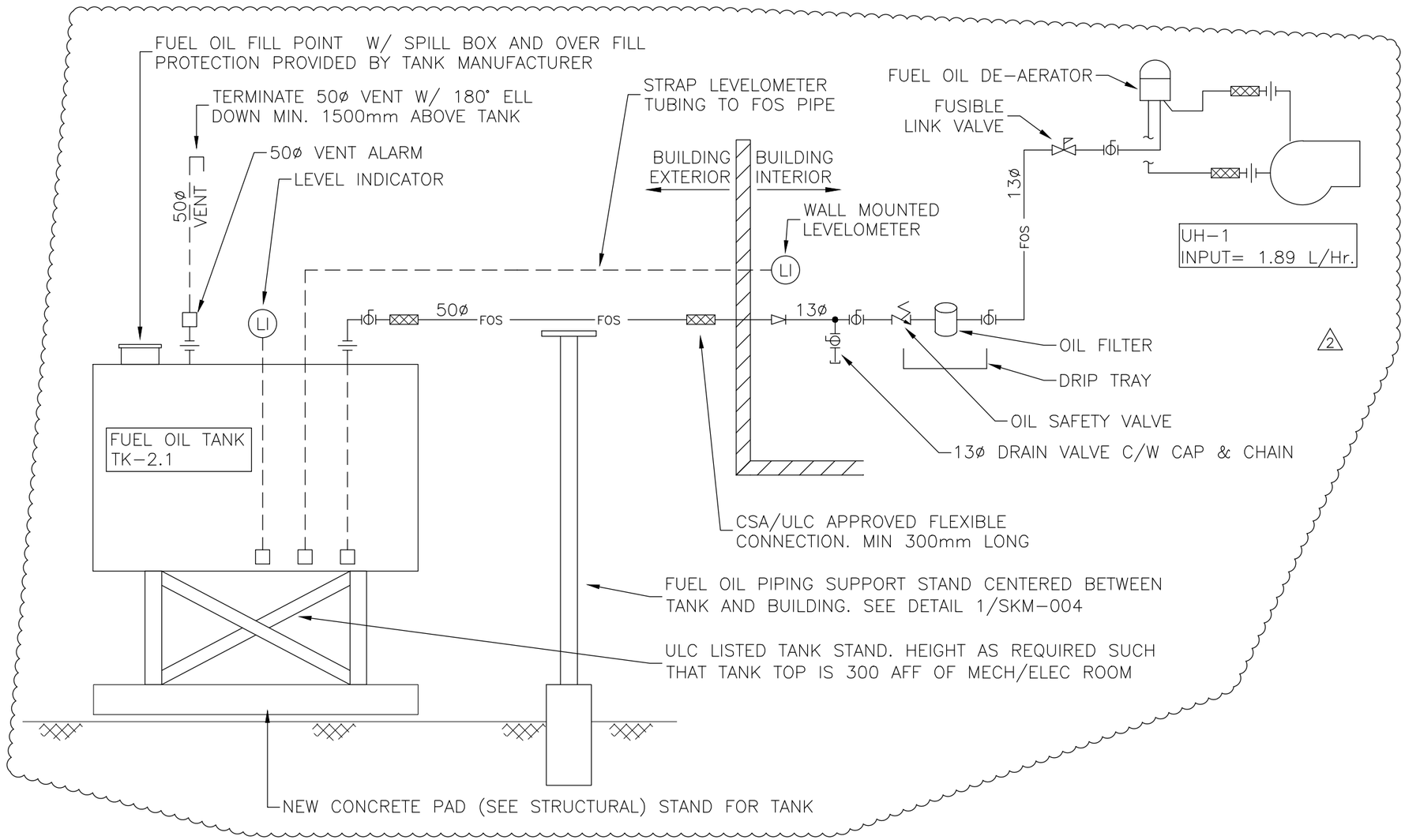
Drawing title/Titre du dessin

REVISED PARTIAL MECHANICAL PLANS: ATTIC VENTILATION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.068835.001	SKM-001 OF	2



1 / SKM-002 REVISED FUEL OIL SCHEMATIC
SCALE: NTS

144902132

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2	ADDENDUM M-001	16/11/08

Client/client

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Drawing title/Titre du dessin
REVISED FUEL OIL SCHEMATIC

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.068835.001	SKM-002 OF	2

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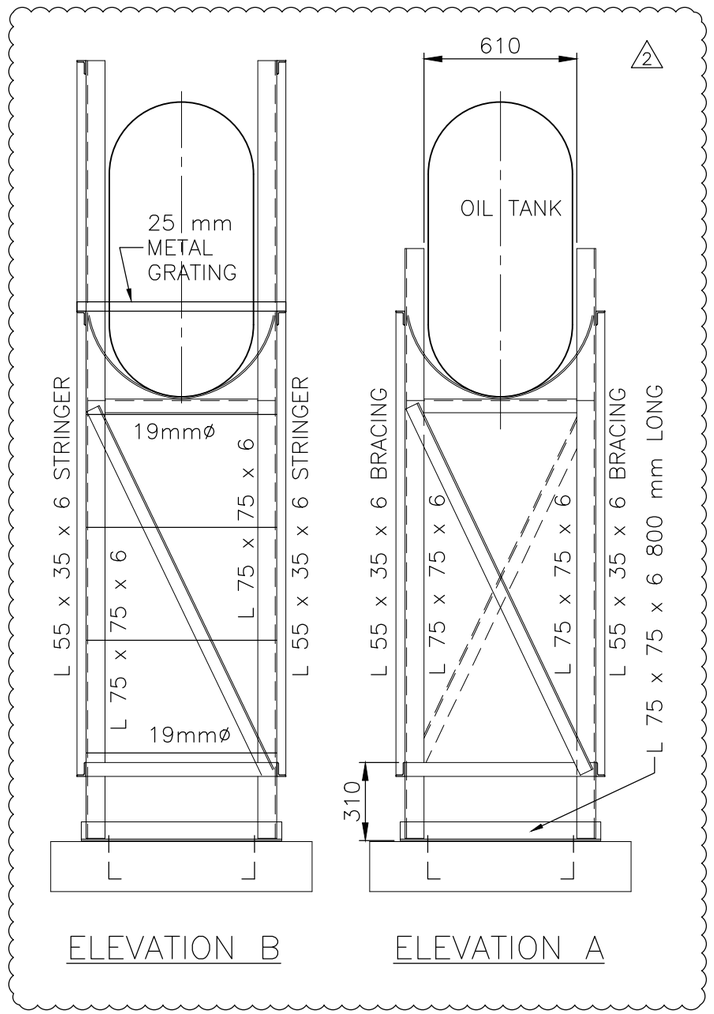

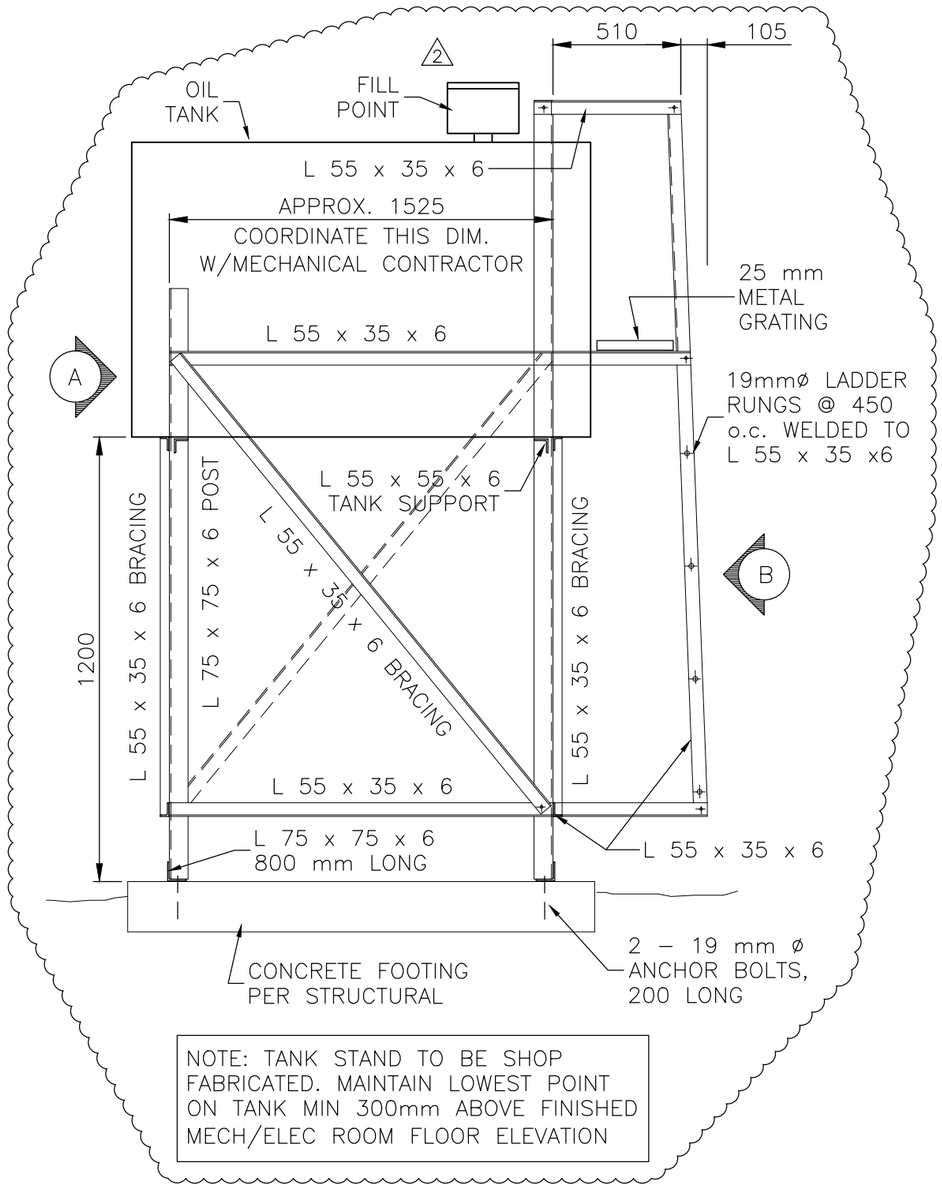

1 / SKM-003 FUEL OIL TANK STAND DETAIL
SCALE: NTS

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2	ADDENDUM M–001	16/11/08

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Drawing title/Titre du dessin

FUEL OIL TANK
STAND DETAIL

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
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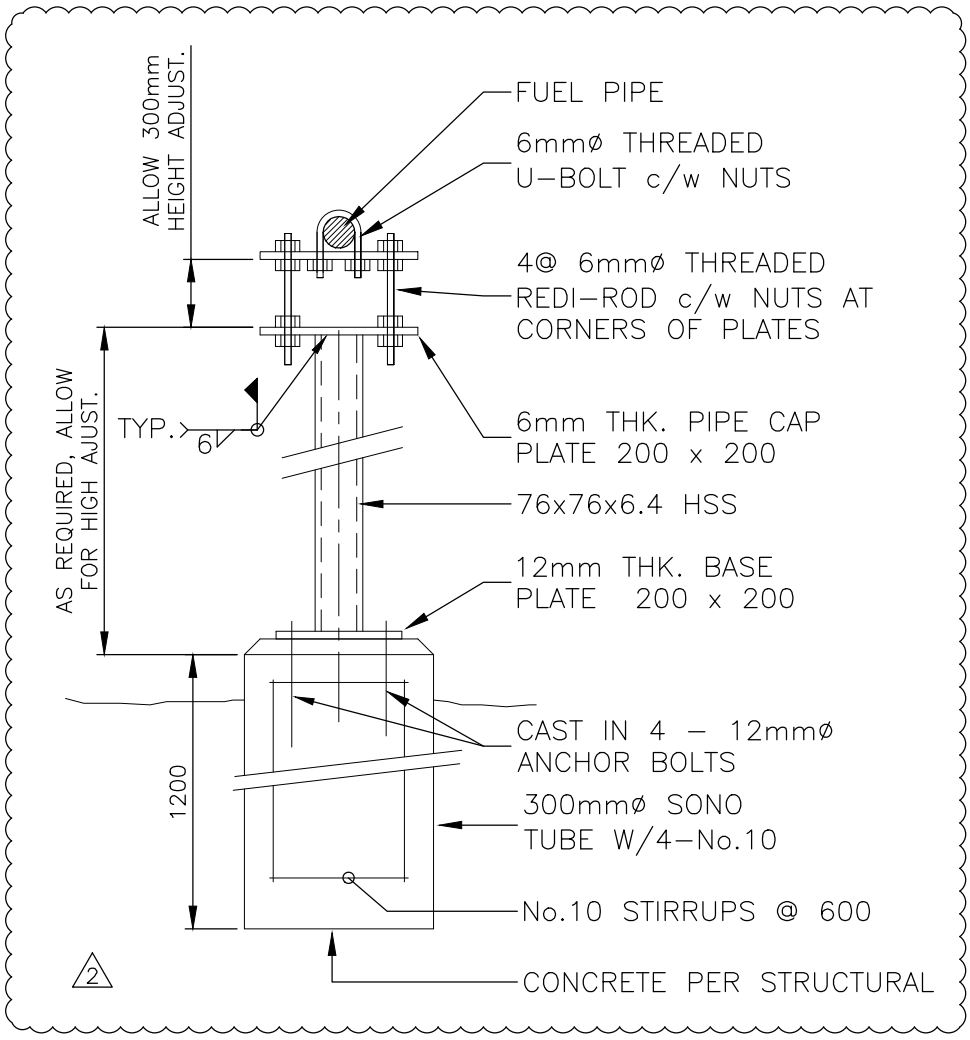

1 / SKM-004 FUEL OIL LINE SUPPORT DETAIL
SCALE: NTS

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Project title/Titre du projet **PALACE GRAND THEATER** **FOUNDATION / MECHANICAL / ELECTRICAL** **RENOVATION AND GENERAL UPGRADE** **DAWSON CITY, YUKON TERRITORY**	Drawing title/Titre du dessin **FUEL OIL LINE SUPPORT DETAIL** **(ADDENDUM M-001)**

Consultant Signature Only	PWGSC Project Manager/Administrateur de Projets TPSGC **TOM DUNPHY**	Scale/Echelle **AS SHOWN @ 8.5x11**	
Designed by/Concept par **LFleming / BZrum**	PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC	Date/Date **16-11-09**	
Drawn by/Dessine par **BZrum**	Project No./No. du projet **R.068835.001**	Sheet/Feuille **SKM-004**	Revision/ Revision **2**

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