

TECHNICAL ADDENDUM

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

1 TENDER INQUIRY

- .1 Clarification required for the Pavement Design for the subject tender in terms of discrepancies between the Civil Drawings & Specifications, and the Geotechnical Report provided as part of Addendum No. 03.

The Geotechnical Report is provided for reference only.

The Drawings and Specifications supersede all recommendations within the Geotechnical Report.

- .2 With regards to Concrete Testing, with reference to Section 03 30 00, Item 3.4.7 states that the Departmental Representative will pay cost of tests as specified in Section 01 29 83. This section is not included in the project manual. Confirm requirements for Concrete Testing.

**Concrete Testing for Quality Control will be the responsibility of the Contractor. Quality Assurance Testing will be paid for by Departmental Representative by Change Order.
(See revisions to 03 30 00 below for clarification).**

- .3 Refer to Architectural Drawings A1.6 – Reflected Ceiling Plans, and, A6.0-Rev B – Schedules (issued as part of Addendum No. 01 in Amendment No. 002). Ceiling types for Rooms 236, 237 and 241 indicated on the Room Finish Schedule as ACT don't match the Drawings. Confirm which is correct.

Ceilings in Rooms 236, 237 and 241 are to be Gypsum Board, as indicated on Reflected Ceiling Plan. Revise Room Finish Schedule on Drawing A6.1 Ceiling Materials for Rooms 236, 237 and 241 to "GB" with "P" Finish.

- .4 Refer to Architectural Drawing A6.0-Rev B – Schedules (issued as part of Addendum No. 01 in Amendment No. 002). In the Door Schedule:
PIL Booth doors 406A, 407A, 408A and 409A are assigned Hardware Group 3 and listed as being Aluminum.
PIL Booth doors 406B, 407B, 408B and 409B are assigned no Hardware Group and listed as being Hollow Metal.
Hardware Group 3. However, seems suited to a hollow metal door (already being assigned to HM doors 238A and 241A).

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Should doors 406A, 407A, 408A and 409A actually be hollow metal doors, and, 406B, 407B, 408B and 409B the aluminum doors?

Yes.

Revise Door and Frame Schedule on Drawing A6.0-RevB accordingly (see 3 DRAWINGS - .1 below).

.5 Refer to Architectural Drawing A4.2-Rev. B – Tertiary Garage Addition (as provided as part of Addendum No. 02/Amendment No. 004)

.1 Wall Type P8 in the Tertiary Garage is listed as only going to 3660 AFF?

Correct. Brace as required.

.2 There is no ceiling shown in Waiting Room 501 or New Lobby 502?

Correct. Open to Structure.

.3 There is an ACT ceiling shown in Office Area 503?

Correct. At 2440 AFF.

.4 Is there any framing above the ACT in Room 503?

No. Suspended by wire from Structure.

.5 Is there a Room Finish Schedule for the Tertiary Garage?

400 – EXIST. TERTIARY EXAM	Existing to remain	Paint walls and ceiling
501 - NEW WAITING ROOM	Floor Walls Ceiling	SLF w/ RCB GB, Painted Open to structure, Painted
502 - NEW LOBBY	Floor Walls Ceiling	SLF w/ RCB GB, Painted Open to structure, Painted
503 - OFFICE AREA	Floor Walls Ceiling	SLF w/ RCB GB, Painted ACT
504 - NEW TERTIARY EXAM	Floor Walls Ceiling	Concrete GB / PLY, Painted Open to structure, Painted

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- .4 There is no listing for the ACT and Suspension in the Specifications or on the Ceiling Assemblies on Drawing Sheet G1.0. What is the ATC and Suspension?
- ACT: 16mm, 610 x 1220, fissured texture, square edge, mineral fiber, white, to ASTM E84.**
- Suspension: 23mm flange, commercial grade, metal system, white, to ASTM C635/636, incl. all required accessories.**
- .6 In regards to Section 13 34 23 – Prefabricated Buildings, we are having difficulties finding manufacturers that can supply Prefabricated Buildings. Can you provide a list of manufacturers?
- The following manufacturer has previously provided this type of building:**
- PAR-KUT INTERNATIONAL – Portable Steel Buildings**
40961 Production Drive
Harrison Charter Township, Michigan 48045, USA
Telephone: (586)468-2947
E-Mail: sales@parkut.com
- .7 Refer to Specification Section – Automatic Transfer Switches.
Item 2.3 stipulates that a 3 pole, 4 wire switch is requested in 2.3.3 / 2.3.9 with solid neutral but also stipulates a switched neutral be used in 2.3.10.
Clarify if solid neutral is for motor operated ATS and switched neutral is for solenoid type ATS.
- ATS shall have switched neutral operated as required.**
- .8 I was reviewing Addendum No. 03 and require clarification on one of the questions asked by another bidder as follows:
- Q: Confirm the poles the cameras are mounted to are to be supplied by the G.C. as per Drawing E6.0?
- A: This will be determined after contract award.
- Based on this, am I to include the poles in my price or not?
- The answer given was in error.**
The Contractor is to provide the poles for the cameras.

2 REQUESTS FOR EQUIVALENCY

.1 ARCHITECTURAL

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.1 Specification Section 07 21 13 – Board Insulation

.1 Requestor: AMC Foam Technologies Inc.
Specified Product: Extruded Polystyrene (XPS), Type 4, 30 psi.
Requested Equivalent: HALO Subterra, Expanded Polystyrene (EPS), Type 3,
30 psi.
Approval: **NOT approved**
Reason: Not Type 4 (XPS).

.2 Requestor: Plasti-Fab Ltd.
Specified Product: Extruded Polystyrene (XPS), Type 4, 30 psi.
Requested Equivalent: PlastiSpan 30, Expanded Polystyrene (EPS), Type 3,
30 psi.
Approval: **NOT approved**
Reason: Not Type 4 (XPS).

.3 Requestor: Plasti-Fab Ltd.
Specified Product: Rigid Celular Polyisocyanurate, insulation for flat
roofs
Requested Equivalent: PlastiSpan HD, Polystyrene, Type 2.
Approval: **NOT approved**
Reason: Not Polyisocyanurate

.2 Specification Section 07 42 43 – Composite Wall Panels

.1 Requestor: Rieger Architectural Products
Specified Product: Aluminum-faced (min. 0.51mm) Solid Thermoplastic
Resin Core (min. 4mm) Composite Panels
Requested Equivalent: **ALCOTEX Aluminum Composite Material**
Approval: **APPROVED**
Reason: Meets intended requirements.

.3 Specification Section 07 52 00 – Modified Bituminous Membrane Roofing

.1 Requestor: IKO Industries Ltd.
Specified Products: 2-ply glass felt roof vapour retarder,
SBS Membrane Base Sheet,
SBS Membrane Cap Sheet,
Pourable adhesive,
12.7mm fiberboard Overlay Board,
Polyisocyanurate Insulation.

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Requested Equivalents: **Torchflex TP-95-SF-Base vapour retarder,
Torchflex TP-180-FF-Base base sheet,
Torchflex TP-250-Cap cap sheet,
Millenium Adhesive,
Protectboard ¼" protection board,
Ikotherm polyisocyanurate roof insulation.**
Approval: **APPROVED**
Reason: Meets intended requirements.

.2 Requestor: Transcona Roofing Ltd.
Specified Products: SBS Membrane Base Sheet,
SBS Membrane Cap Sheet,
Requested Equivalents: **SOPREMA Elastophene 180 PS
base sheet
SOPREMA Soprastar Flam HD GR cap sheet,**
Approval: **APPROVED**
Reason: Meets intended requirements.

.4 Specification Section 08 50 00 – Aluminum Windows

.1 Requestor: Alumicor Ltd.
Acceptable Products: Kawneer 1600 Series, US Aluminum 3250 Series.
Requested Equivalent: **Alumicor 2500 Series**
Approval: **APPROVED**
Reason: Meets intended requirements.

.2 Requestor: Alumicor Ltd.
Acceptable Products: Kawneer 1600 Series, US Aluminum 3250 Series.
Requested Equivalent: Alumicor 2200 Series
Approval: **NOT approved**
Reason: Does not meet intended requirements.

.5 Specification Section 13 34 23 – Prefabricated Buildings

.1 Requestor: DBA Canada Kiosk – NRB Inc.

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Specified Products: Metal skin insulated panel assembly fully welded with interior metal walls, ceiling and floors – as Specified and indicated on Drawings..

Requested Equivalent: Canada Kiosk C4000 aluminum framed PIL Booth

Approval: **NOT approved**

Reason: Does not meet Owner requirements.
Would be acceptable if custom manufactured as per Drawings and Specifications.

.2 MECHANICAL

.1 Specification Section 22 42 01 – Plumbing Specialties and Accessories

.1 Requestor: WD Industrial Group

Specified Product: PDI-WH201 Water Hammer Arrestors.

Requested Equivalent: PPP SC-Series Water Hammer Arrestors.

Approval: **APPROVED**

Reason: Meets intended requirements.

.2 Mechanical Drawings ME1.2 and M6.1

.1 Requestor: WD Industrial Group

Specified Products: Duplex Storm Sump SP-1B and SP-2B, as indicated in Drawings.

Requested Equivalents: Liberty XFL73M-2 explosion-proof submersible pump (non-grinder), ISD34-3-171-5 NEMA 4x duplex intrinsically safe control panel.

Approval: **APPROVED**

Reason: Meets intended requirements.

.3 CIVIL

.1 Specification Section 34 71 13.01 – Vehicle Concrete Barriers

.1 Requestor: ARMTEC

Specified Product: Pre-cast Vehicle Concrete Barriers (Jersey Barriers)

Requested Equivalent: ARNTEC Median Barrier (Keyway Conn. Type)

Approval: **APPROVED**

Reason:

Meets intended requirements.

3 SPECIFICATIONS

- .1 Reference Specification Section 03 30 00 – Cast-In-Place Concrete, Sub-Section 3.4 – Field Quality Control. **Replace Sub-Section 3.4 as follows:**

"3.4 FIELD QUALITY CONTROL

- .1 Site tests: conduct following test in accordance with Section 01 45 00 - Quality Control and submit report as described in PART 1 - SUBMITTALS.
 - .1 Concrete pours.
 - .2 Slump tests.
 - .3 Air content.
- .2 Inspection and testing of concrete and concrete materials will be carried out by testing laboratory in accordance with CSA-A23.1/A23.2.
- .3 Ensure testing laboratory is certified in accordance with CSA A283.
- .4 Testing firm to take a minimum of one (1) test cylinders for a strength test and not less than one strength test for each 50 m³ of concrete, or portion thereof, for each type of concrete placed and not less than one (1) test for each type of concrete placed in any one day.
- .5 Ensure test results are distributed for discussion at pre-pouring concrete meeting between testing laboratory and Departmental Representative.
- .6 Departmental Representative may take additional test cylinders as specified in Section 01 45 00 – Quality Control during cold weather concreting. Cure cylinders on job site under same conditions as concrete which they represent.
- .7 Non-Destructive Methods for Testing Concrete: in accordance with CSA-A23.1/A23.2.
- .8 Inspection or testing by Departmental Representative will not augment or replace Contractor quality control nor relieve Contractor of his contractual responsibility."

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- .2 Reference Specification Section 08 50 00 – Aluminum Windows, Item 2.1.4.
 - .1 **Remove** the following from Acceptable Products:
 - .1 Columbia Aluminum Products Series 200.
 - .2 Kawneer 1602 Series (1600 Series to remain).
- .3 Reference Specification Section 26 32 13.01:
 - .1 2.17 Sub Base:
 - .1 2.17.3.1 Revise to forty-eight (48) hours of operation.
 - .2 2.18 Winterized Sound Attenuated Enclosure:
 - .1 2.18.22 Witness test shall be four (4) hour duration under varying load conditions and to manufacturers test procedures and recommendation. Test location can be in Winnipeg or manufacturers facility, carry cost for one (1) person to attend.
- .4 Reference Specification Division 27 – Communication Systems:
 - .1 There are a total of three (3) data drops requiring cabling to existing data rack with termination by owner. **Specification Division 27 is not required, nor provided.** All other communication systems by Owner.
- .5 Reference Specification Section 28 13 00 – Part 1 General:
 - .1 1.1 Related Requirements;
 - .1 1.1.1 System shall be Open Options – DNA Fusion operating system complete with open platform Mercury Security control panels. Emerson (ACSMS) host computer shall be installed at #100-269 Main Street, with Emerson installed as a subsystem. No other systems shall be considered.
 - .2 1.7 Warranty;
 - .1 1.7.3 – Warranty shall commence upon acceptance of the installed system.
 - .2 1.7.4 – Include and assign any manufacturers warranties for 24 month period.
 - .3 1.7.5 – Include software maintenance with 24 month period.
 - .4 1.7.6 – During warranty period, provide guaranteed response time of two (2) hours for a major system failure and eight (8) hours for a minor system failure on a twenty-four (24) hour per day, seven (7) day a week basis. A major system failure shall be defined as the failure of any operator control as well as any system controller, processor or communication link which renders more than 10% of a specific security sub-system of systems inoperative. A minor system failure of a single security device such as a card reader, egress device, etc.
 - .5 1.7.7 – Preventative and corrective maintenance performed by a maintenance contractor shall not void warranty during or after warranty period.

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- .3 1.8 Definitions:
 - .1 1.8.4 – Anti-pass back feature not required.
 - .2 1.8.9 – Biometrics feature not required.
 - .3 1.8.17 – Keypad feature not required.
- .4 2.3 – Access Control and Security Management System Operation Requirements.
 - .1 2.3.6.1.c – Anti pass back not required.
 - .2 2.3.6.1.d – Anti pass back not required.
 - .3 2.3.6.1.f – Two card control not required.
 - .4 2.3.6 – Show integrated ID badging as a separate prince to include .
- .5 Add Section 3.7 - Training:
 - .1 Training sessions must be provided using the installed system within one month after the installation acceptance of the completed system.
 - .2 The training must be done by a certified trainer.
 - .3 Training must be provided at site. It shall take place during week-days, between 7am and 5pm. The contractor will establish a training schedule with Owner prior to the training sessions.
 - .4 The training will consist of but is not limited to the following aspects: system overview, card access reports, adding users, deleting users, creating users groups.
 - .5 Documentation must be specific to each target audience and must provide functional descriptions for each component.
 - .6 The training must be:
 - .1 Computer based with practical examples.
 - .2 Customized to meet customer requirements to specific target audience.
 - .7 Training documentation must be available to all trainees in both English and French.
- .6 Add Section 3.8 Maintenance and Service Level Agreement;
 - .1 Provide optional pricing for a Service Level Agreement (SLA) for scope and cost for standalone maintenance services (schedules, remedial and preventative maintenance) for one (1) year following commissioning. The maintenance services proposal may or may not be included in the contract. Non-procurement of such services shall not void the warranty terms.
 - .2 The SLA shall include the provision and implementation of all software upgrades.

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- .3 As a minimum during the maintenance period, the SLA shall include a guaranteed response time of two (2) hours for a major system failure and eight (8) hours for a minor system failure on a 24 hour per day, 7 days per week basis.
- .4 The proposed SLA shall include breakdown in cost and services for the following response times:
 - .1 Two (2) hours
 - .2 Eight (8) hours
 - .3 Twenty-four (24) hours
- .5 Such costs shall remain in effect for (2) years.
- .6 The term of the maintenance contract will commence from the time of system acceptance.
- .7 The Security System Contractor shall provide hot-line engineering help desk telephone support to answer any questions and provide any assistance as required for Owner.
- .8 Add Section 3.9 Licence Fees;
 - .1 Provide licences for software and device application installed on a workstation and server for all machines that would require the software such that there are enough licences for each software application to run on all machines, with an installation of the software application, concurrently at the time of commissioning.
 - .2 All firmware and software shall be guaranteed for up to five (5) years, during which period any patches, bug fixes or related upgrades shall be implemented without additional cost to the owner.
 - .3 All software and firmware delivered as part of this shall become the property of Owner. Owner's right to use all software and firmware delivered for this project shall not expire, regardless of other upgrade and warranty arrangements agreed with Owner.
- .6 Reference Specification Section 32 13 13 – Concrete Paving:
 - .1 Replace Item 2.2.8.2 as follows:

"2.2.8.2 Dowels: clean, straight and free from flattened or burred ends, plain round bars of grade 300 or better conforming to CSA G40.20 and be corrosion resistant.

Smooth Dowels are 35mm X 450mm"

4 DRAWINGS

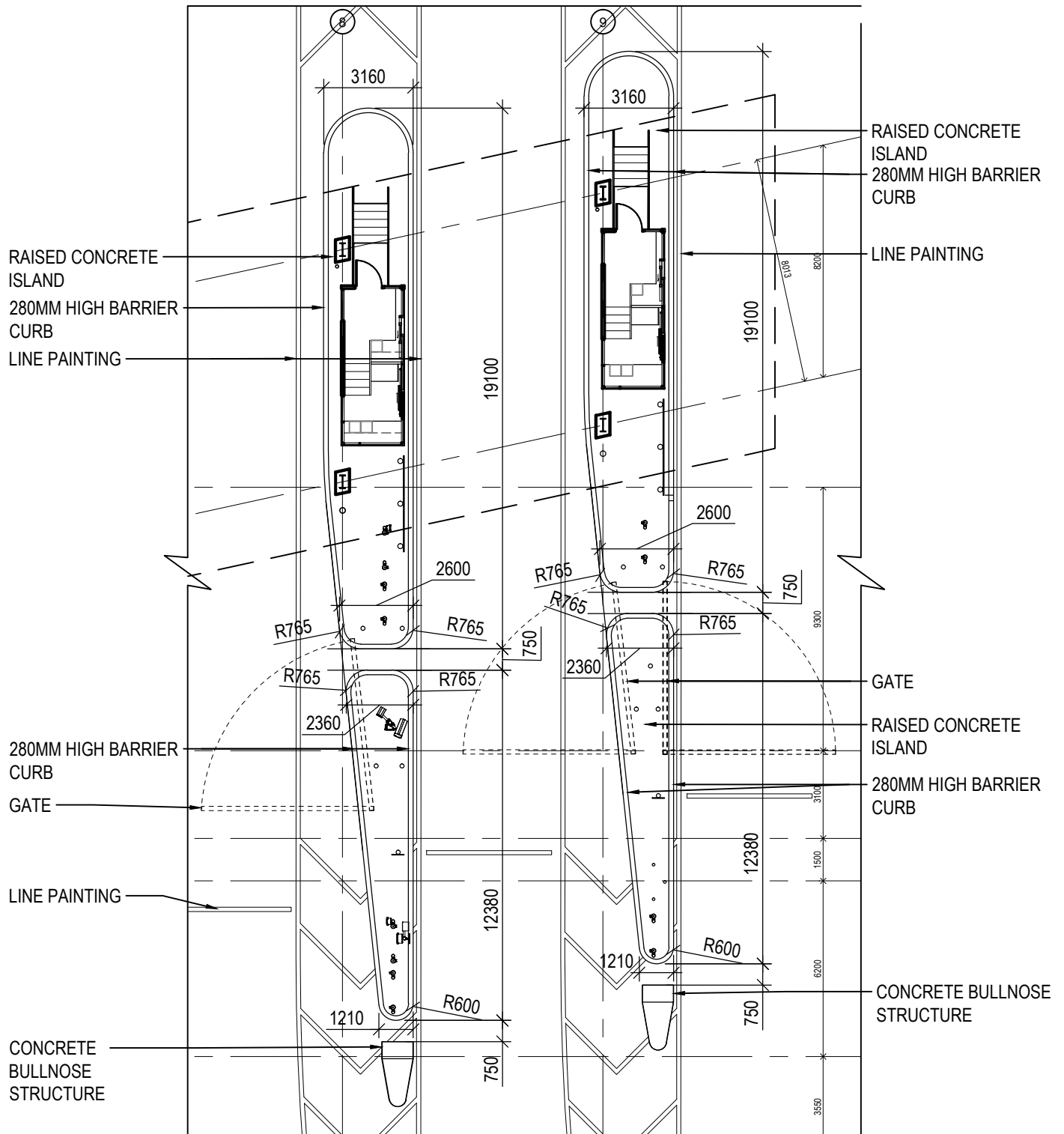
- .1 Refer to Architectural Drawing A6.0-Rev B – Schedules (issued as part of Addendum No. 01 in Amendment No. 002).

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- .1 In Door Schedule: revise doors 406A, 407A, 408A and 409A to read; 406B, 407B, 408B and 409B, and, vice-versa.
- .2 Refer to Architectural Drawing A1.2 – Floor Plan: New Warehouse Addition, as well as all other related Architectural, Civil, Structural, Mechanical and Electrical Drawings.
 - .1 Revise concrete islands, curbs, bollards, posts, gates, etc.; as indicated on **Architectural Detail Sheet AD5.1 – Site Plan - Typical PIL Island**, and appended to the end of this Addendum.
 - .1 Related work of all other disciplines is to be adjusted accordingly.
- .3 Refer to Architectural Drawing A1.2 – Floor Plan: New Warehouse Addition, and Architectural Detail Sheet AD5.1 – Site Plan - Typical PIL Island.
 - .1 Revise note on Drawing A1.2 pertaining to “Hinged Metal Gate On Post” from “Refer to Civil” to: “Refer to Architectural Detail Sheet AD5.2 – Sitework Gate Details.
 - .2 **Architectural Detail Sheet AD5.2 – Sitework Gate Details** is appended to the end of this Addendum.

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1 TYPICAL PIL ISLAND
1: 200

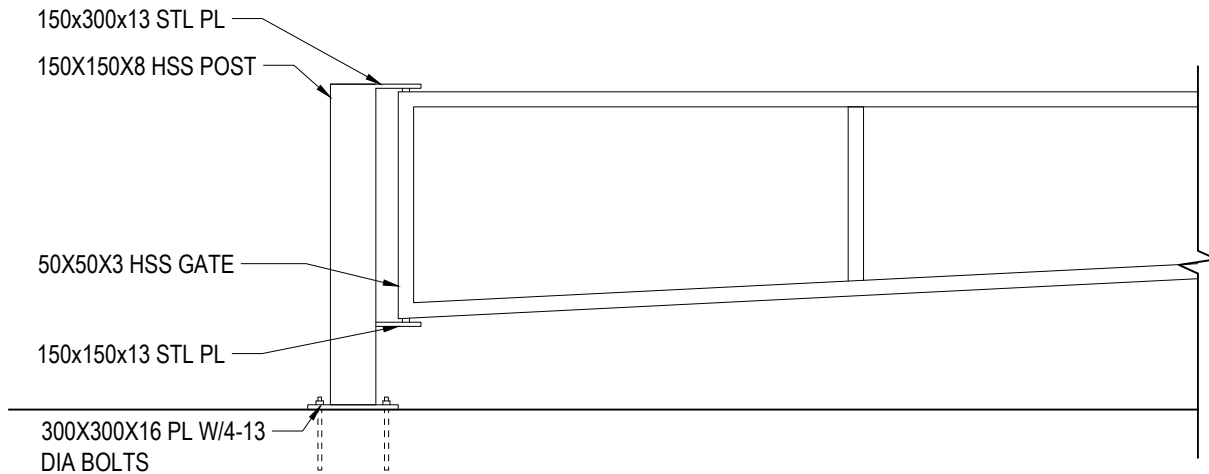
Project title
**Expansion and Redevelopment of the
Emerson Port of Entry**
Emerson, Manitoba

Drawing title
**Site Plan
Typical PIL Island**

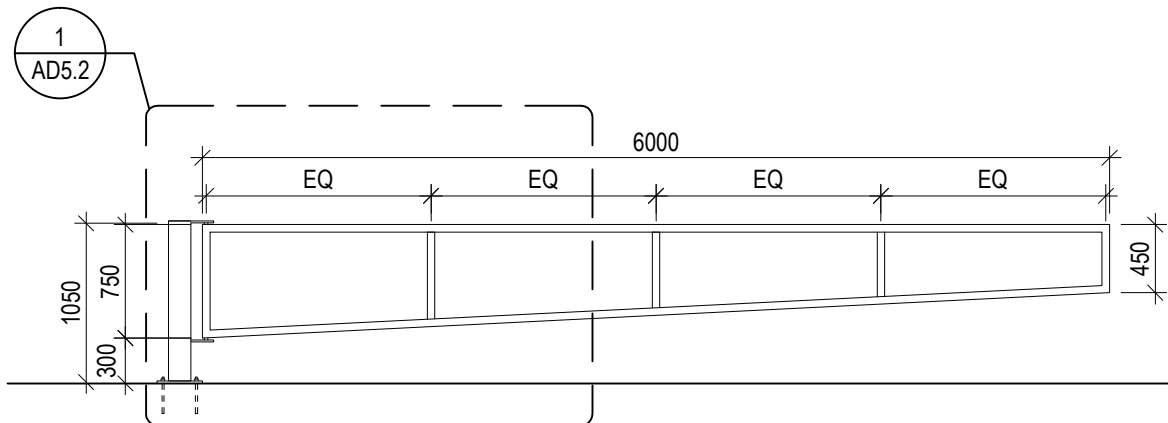
Drawn by
DH
Designed by
RB
Approved by
RB

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PWGSC Project Manager
James Hutchings
Project no.
15-013100
Date
2017-01-12
Sheet
AD5.1
Revision
0



1 GATE DETAIL ELEVATION
1: 25



2 GATE ELEVATION
1: 50

Project title
**Expansion and Redevelopment of the
Emerson Port of Entry**
Emerson, Manitoba

Drawing title
**Sitework
Gate Details**

Drawn by
DH

Designed by
EN

Approved by
RB

PRELIMINARY
NOT FOR CONSTRUCTION

PWGSC Project Manager
James Hutchings

Project no.
15-013100

Date
2017-01-13

Sheet
AD5.2

Revision
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