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Addendum No. 03

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Project No. PTS 3043
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Project: Safety Access to Tarmac

The following information supplements the bid documents issued.

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

Addendum Items.

- 3.1 Section 05 41 00 enclosed (5 pages) for exterior wall framing above windows for Sections 2/A302 & 3/A302.
- 3.2 Refer to door schedule and revise as follows: aluminum doors to be 950 x 2135 mm. Provide glazed transom above to make up the difference.
- 3.3 Aluminum door hardware list is:
 - .1 6 NRP hinges (see specif. for type
 - .2 2 pull handles, similar to Alumicor 231 pull handles.
 - .3 2 Slimline push bars
 - .4 1 MS deabolt
 - .5 1 astragal
 - .6 1 floor mounted Latch
 - .7 weaterstripping
 - .8 aluminum threshold
 - .9 1 head door closer Alarm D103.
 - .10 1 door buzzer (D103)
 - .11 glazing stops as specified.
- 3.4 Section 08 44 13: exterior and flashings to be made of 0.80 mm thick aluminum.
- 3.5 Floor Grille: M1 Pedimat, exposed hinge rail connectors of extruded 6063-T6 aluminum complete with perforations for drainage. Tread rails shall be manufactured from high-impact Regrind PET-G complete with co-extruded soft-durometer cushions. Overall depth without frame 11.1 mm. PS –Pipe-Stem Frame, made of 6063-T5-aluminum alloy creates a receiver for surrounding commercial carpet. Colour to be

selected by Department Representative. Install following manufacturer's instructions. Coordinate top of mat surface with bottom of doors that swing across to provide ample clearance between door and mat. Coordinate installation of frame to be casted into concrete floor slab. Provide shop drawings to show sufficient detail for layout of mat and frame, anchors, drainage etc.

END OF ADDENDUM No. 03

1 GENERAL

1.01 RELATED REQUIREMENTS

- .1 Section 01 33 00 - Cast-in-Place Concrete.
- .2 Section 05 12 23 - Structural Steel for Buildings.

1.02 REFERENCES

- .1 ASTM International
 - .1 ASTM A 123/A 123M-09, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - .2 ASTM A 653/A 653M-[09a], Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .3 ASTM A 792/A 792M-09a, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.181-99, Ready-Mixed Organic Zinc-Rich Coating.
- .3 CSA International
 - .1 CSA W47.1-09, Certification of Companies for Fusion Welding of Steel Structures.
 - .2 CSA W55.3-08, Certification of Companies for Resistance Welding of Steel and Aluminum.
 - .3 CSA W59-M03(R2008), Welded Steel Construction (Metal Arc Welding) Metric.
 - .4 CAN/CSA S136-07, North American Specification for the Design of Cold Formed Steel Structural Members.
- .4 Canadian Sheet Steel Building Institute (CSSBI)
 - .1 CSSBI 50M-06, Lightweight Steel Framing Manual.
 - .2 CSSBI Fact Sheet #3 June 1994, Care and Maintenance of Prefinished Sheet Steel Building Products.
 - .3 CSSBI Technical Bulletin Vol. 7, No. 2 February 2004, Changing Standard Thicknesses for Canadian Lightweight Steel Framing Applications.
 - .4 CSSBI S5-04, Guide Specification for Wind Bearing Steel Studs.
- .5 Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - current edition.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for structural metal stud] and include product characteristics, performance criteria, physical size, finish and limitations.

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- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario, Canada.
 - .2 Indicate design loads, member sizes, materials, design thickness exclusive of coatings, coating specifications, connection and bracing details, screw sizes and spacing, and anchors.
 - .3 Indicate locations, dimensions, openings and requirements of related work.
 - .4 Indicate welds by welding symbols as defined in CSA W59.
 - .4 Certificates: prior to beginning Work, submit: 2 certified copies of mill reports covering material properties.
 - .5 Manufacturer Reports:
 - .1 Submit manufacturer's written report, within 3 days of review, verifying compliance of Work, as described in PART 3 - FIELD QUALITY CONTROL.

1.04 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect structural metal studs from nicks, scratches, and blemishes.
 - .3 Protect steel studs during transportation, site storage and installation in accordance with CSSBI Sheet Steel Facts #3.
 - .4 Handle and protect galvanized materials from damage to zinc coating.
 - .5 Replace defective or damaged materials with new.

2 PRODUCTS

2.01 MATERIALS

- .1 Steel: to CAN/CSA S136, fabricated from ASTM A 653/A 653M, Grade 340 steel.
- .2 Zinc coated steel sheet: quality to ASTM A 653/A 653M, with Z275 designation coating.
- .3 Welding materials: to CSA W59 and certified by Canadian Welding Bureau.
- .4 Screws: low profile head, self-drilling, self-tapping sheet metal

screws, corrosion protected with minimum zinc coating thickness of 0.008 mm, length as required.

- .5 Anchors: concrete expansion anchors or other suitable drilled type fasteners.
- .6 Bolts, nuts, washers: hot dipped galvanized to ASTM A 123/A 123M, 600 g/m² zinc coating.
- .7 Touch up primer: zinc rich, to CAN/CGSB-1.181 MPI #18.

2.02 STEEL STUD DESIGNATIONS

- .1 Colour code: to CSSBI Technical Bulletin Vol.7, No. 2.

2.03 METAL FRAMING

- .1 Steel studs: to CAN/CSA S136, fabricated from metallic coated steel, depth as indicated.
 - .1 Minimum steel thickness of 2.46 mm.
- .2 Stud tracks: fabricated from same material and finish as steel studs, depth to suit.
 - .1 Bottom track: single piece.
 - .2 Top track: single piece.
- .3 Bridging: fabricated from same material and finish as studs, 38 x 12 x 1.09 mm minimum thickness.
- .4 Angle clips: fabricated from same material and finish as studs, 38 x 38 mm x depth of steel stud, 1.37 mm minimum thickness.
- .5 Tension straps and accessories: as recommended by manufacturer.

2.04 SOURCE QUALITY CONTROL

- .1 Ensure mill reports covering material properties are reviewed by Departmental Representative.

3 EXECUTION

3.01 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for precast concrete installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.02 GENERAL

- .1 Weld in accordance with CSA W59.
- .2 Certification of companies: to CSA W47.1 for fusion welding and CSA W55.3 for resistance welding.
- .3 Do structural metal stud framing work to CSSBI S5.

3.03 ERECTION

- .1 Erect components to requirements of reviewed shop drawings.
- .2 Anchor tracks securely to structure at 800 mm on centre maximum, unless lesser spacing prescribed on shop drawings.
- .3 Erect studs plumb, aligned and securely attached with 2 screws minimum, or welded in accordance with manufacturer's recommendations.
- .4 Seat studs into bottom tracks and single piece top track.
- .5 Install 50 mm minimum telescoping track at top of walls where required to accommodate vertical deflection.
 - .1 Nest top track into deflection channel minimum of 30 mm and maximum of 40 mm.
 - .2 Do not fasten tracks together.
 - .3 Stagger joints.
- .6 Install studs at not more than 50 mm from abutting walls, openings, and each side of corners and terminations with dissimilar materials.
- .7 Brace steel studs with horizontal internal bridging at 600 mm maximum.
 - .1 Fasten bridging to steel clips fastened to steel studs with screws or by welding.
- .8 Frame openings in stud walls to adequately carry loads by use of additional framing members and bracing as detailed on shop drawings.
- .9 Touch up welds with coat of zinc rich primer.

3.04 ERECTION TOLERANCES

- .1 Plumb: not to exceed 1/500th of member length.
- .2 Camber: not to exceed 1/1000th of member length.
- .3 Spacing: not more than +/- 3 mm from design spacing.
- .4 Gap between end of stud and track web: not more than 4 mm.

3.05 CUTOUTS

- .1 Maximum size of cutouts for services as follows:

Member	Across	Along	Centre to
Depth	Member	Member	Centre
	Depth	Length	Spacing
			(mm)

92	40 max.	105 max.	600 min.
102	40 max.	105 max.	600 min.
152	65 max.	115 max.	600 min.

- .2 Limit distance from centerline of last unreinforced cutout to end of member to less than 300 mm.

3.06 FIELD QUALITY CONTROL

- .1 Manufacturer's Field Services:
- .1 Obtain written report from manufacturer's verifying compliance of Work, in handling, installing, applying, protecting and cleaning of product and submit Manufacturer's Field Reports as described in PART 1 - ACTION AND INFORMATIONAL SUBMITTALS.
 - .2 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 - .3 Schedule site visits to review Work as follows.
 - .1 After delivery and storage of products, and when preparatory Work is complete but before installation begins.
 - .2 During progress of Work at 25% and 60% complete.
 - .3 Upon completion of Work, after cleaning is carried out.

3.07 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

3.08 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by structural metal stud installation.

END OF SECTION