

The following information, amendments and revisions shall constitute Addendum No.1 and shall form an integral part of the construction documents and where applicable, shall supersede requirements of other construction documents.

General Contractors shall bring this addendum to the attention of all sub trades and suppliers from whom they may be receiving quotations.

## **PART 1 SPECIFICATIONS**

- 1.1** Refer Specification Section 00 00 01 Invitation to Tender:
- .1 Refer to Quotations Received: Revise to read: ***“On or before Tuesday, March 7<sup>th</sup>, 2023 @ 2:00 p.m.”***
  - .2 Refer to Mandatory Site Meeting: Revise to read: ***“Tuesday, February 21<sup>st</sup>, 2022 @ 10:30 a.m.”***
- 1.2** Refer Specification Section 00 00 02 Table of Contents:
- .1 Refer to Division 7 – Moisture Protection:
    - .1 Refer to Specification Section 07 42 10 Preformed Metal Roof and Wall Panels: Delete: Add Specification Section: 07 41 00 Preformed Metal Wall Panels (6 Pages) (refer to attached).
    - .2 Refer to Division 7 – Moisture Protection: Add Specification Section 07 61 13 Metal Roof System.
- 1.3** Refer Specification Section 00 21 13 Instructions to Bidders:
- .1 Revise 2.3 Bid Submission to read: “Bids using the prescribed Bid Form supplied herewith, electronically submitted, will be received no later than *Tuesday, March 7<sup>th</sup>, 2023, 2:00:00 PM* local time, according to the clock at the Owner’s location for receiving Bids, which shall be the only measure for the exact time (date and time). Submit Supplementary Bid Information electronically and clearly marked within 1 hour after Tender Close.”
  - .2 Refer to 9. Acceptance of Bid: Refer to Item 9.5: Revise to read: ***“...thirty (3) calendar days...”***
- 1.4** Refer Specification Section 01 10 00 Summary of Work: Refer to Item 1.11 Performance of the Work: Revise Item 11.1.1 to read:
- .1 ***“Substantial Performance of the Work is required for Owner occupancy before August 31, 2024.”***
- 1.5** Refer to Specification Section 01 21 00 Allowances: Refer to 1.6 Contingency Allowance: Revise Item 1.6.1.1 Terminal Building to read: “\$120,000.00”.

## **PART 2 DRAWINGS**

Not Used

## **PART 3 GENERAL**

Not Used

**End of Addendum**

February 14, 2023

## Part 1 General

### 1.1 SUMMARY

- .1 SECTION INCLUDES:
  - Prefinished, prefabricated through fastened wall system.
  - Coordinated inside corner, outside corner, sill, header, jamb, lap and base flashings.
  - Extrusions, fasteners, and closures as necessary to meet design criteria and ensure complete installation.
- .2 RELATED SECTIONS:
  - Section 05500: Metal Fabrications
  - Section 06100: Rough Carpentry/Wood framing and Decking
  - Section 07520: SBS Modified Bituminous Roofing
  - Section 07600: Flashing and Sheet Metal

### 1.2 REFERENCES

- .1 Aluminum Association:
  - 2005 edition of the Aluminum Design Guide
- .2 American Society of Civil Engineers (ASCE)
  - ASCE-7 Minimum Design Loads for Buildings and Other Structures
- .3 American Society for Testing and Materials (ASTM):
  - ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

### 1.3 SYSTEM DESCRIPTION

- .1 Design, fabricate and erect a pressure equalized wall panel system to meet the following requirements:
  - .1 Rain Penetration: prevent rain penetration through wall system. Design system based on "Rain Screen Principle". Incorporate means of draining to the exterior.
  - .2 Wind Load: Design wall system to resist wind loads, positive and negative, expected in this geographical region without causing rattling, vibration or excessive deflection of panels, overstressing of fasteners, clips and other detrimental effects on system.
  - .3 Structural and Thermal Movement: Accommodate movement of supporting structural framing and movement caused by the thermal expansion and contraction of system component parts without causing bowing, buckling, delamination, oil canning, failure of joint seals, excessive stress on fasteners or any other detrimental effects.
- .2 Panel flatness tolerance: Fabricate panels not exceeding the following tolerances:
  - .1 Rises and falls across panel, (local bumps and depressions) will not be accepted.
  - .2 .080" (2mm) in a concave/convex direction, measured perpendicular to normal plane.
- .3 Panel removal: System/procedure to allow removal of individual panels within wall system.

- .4 Maximum deviation from vertical and horizontal alignment of erected panels: 1/4" in 20'-0" (6mm in 6m).
- .5 Testing: Provide wall assembly that has been tested and certified to conform to the following criteria:
  - .1 Air Leakage: Not more than 0.006 (cfm)/sf of wall area 0.11m<sup>3</sup>/h/m<sup>2</sup>, when tested at 6.24 psf (300 Pa) in accordance with ASTM E283.
  - .2 Water Penetration: No water infiltration under static pressure when tested in accordance with ASTM E331 at a pressure level of 14.61 psf (700 kPa) minimum, after 15 minutes.
    - (a) Water penetration is defined as the appearance of uncontrolled water in the wall.
    - (b) Wall design shall feature provisions to drain to the exterior face of the wall any leakage of water at joints and any condensation that may occur within the construction.
  - .3 Structural: Provide systems that have been tested in accordance with ASTM E330 at a design pressure of 65 psf (3.12 kPa) and have been certified to be without permanent deformation or failures of structural members.

#### 1.4 SUBMITTALS

- .1 GENERAL  
Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- .2 PRODUCT DATA  
Submit manufacturer's specifications, standard details, and installation manual.
- .3 SHOP DRAWINGS  
Show wall panel system with flashings and accessories in elevation; sections and details. Include metal thicknesses and finishes, panel lengths, joining details, anchorage details, flashings and special fabrication provisions for termination and penetrations. Indicate relationships with adjacent and interfacing work.  
Do not proceed with manufacture of wall materials prior to review of shop drawings and field verification of all dimensions.
- .4 SAMPLES  
Submit sample of panel section, 12" long x full width panel, showing proposed metal thickness, finish and profile.
- .5 CALCULATIONS  
Submit engineering calculations defining cladding loads for all wall areas based on design criteria listed in section 1.2 of this specification  
Calculation shall clearly indicate structural support type, spacing requirements of structural supports by zone, and fastener requirements.  
Calculate pullout, pullover, and shear strength of fasteners in accordance with test data published by the fastener manufacturer, utilizing applicable material safety factors.
- .6 WARRANTY  
Provide unexecuted specimen warranty documents as required in section 1.6.
- .7 CERTIFICATION

Submit manufacturer's certification that materials and finishes meet specification requirements.

Submit applicator's certification that installer of products meets specified qualifications

## **1.5 QUALITY ASSURANCE**

### **.1 MANUFACTURER'S QUALIFICATIONS**

Panel manufacturers must provide full supporting literature, flashing and details guides, Guide Specifications, and technical support.

### **.2 APPLICATOR QUALIFICATIONS:**

Applicator must have three years minimum experience in application of metal wall systems of this nature.

Applicator must be an approved installer, certified by the manufacturer prior to beginning installation of the wall.

### **.3 PRODUCT SUBSTITUTION**

Products listed in this specification section are as manufactured by Sobotec Ltd.

Alternate wall panels will only be accepted with prior written approval of Architect.

Substitution requests must be submitted in writing minimum ten days prior to bid date accompanied by product literature, technical information, and product sample. Approved substitutions will be set forth in an addendum.

No substitutions will be permitted after bid date.

### **.4 PRE-INSTALLATION MEETINGS**

Conduct pre-installation meeting to verify project requirements, substrate conditions, and manufacturer's installation instructions.

## **1.6 DELIVERY, STORAGE AND HANDLING**

### **.1 DELIVERY**

Deliver metal wall system to jobsite properly packaged to provide protection against transportation damage

### **.2 HANDLING**

Exercise extreme care in unloading, storing, and erecting metal wall system to prevent bending, warping, twisting, and surface damage.

### **.3 STORAGE AND PROTECTION**

Store sheet bundles above ground with one end elevated and allow for air circulation and drainage.

Store sheet bundles under tarpaulin cover to protect from rain and prevent accumulation of dirt and condensation.

Prolonged storage of bundled sheets is not recommended.

ALWAYS avoid direct contact with alkali-bearing material such as lime based cement, concrete/mortar.

## **1.7 WARRANTY**

.1 Project Warranty: Refer to Conditions of the Contract for project specific warranty provisions.

.2 Furnish manufacturer's standard 20-year warranty stating panel material will not fail due to: Corrosion, Rupture or Perforation

- .3 Installer's Warranty: In a form acceptable to the Owner, Installer agrees to repair or replace metal wall panel assemblies that fail in materials and workmanship within two years from date of Substantial Completion.

## Part 2 Products

- .1 ACCEPTABLE MANUFACTURER  
Sobotec Ltd., 67 Burford Rd., Hamilton, Ontario, L8E 3C6 Tel: (905) 578-1278
- .2 SUBSTITUTIONS:  
Substitutions must fully comply with specified requirements.

## 2.2 MATERIALS

- .1 PANELS: Aluminum Composite Material (ACM)
- .1 Composition: Two sheets of aluminum sandwiching a core of extruded thermoplastic, formed in a continuous process without the use of glues or adhesives between dissimilar materials. Bond integrity testing to adhere to ASTM D1781-76.
- .2 Aluminum face sheets: aluminum alloy 3003, thickness: 0.020" (0.51mm).
- .3 Panel thickness: 4mm (.157").
- .4 Panel weight: 1.12 lbs/sq.ft. (5.5 kg/sq.m.).
- .5 Tolerances:
- .1 Panel bow: Maximum 0.8% of panel dimension (width or length).
- .2 Panel Dimensions: Take site measurements before proceeding with production unless dimensions can be guaranteed by General Contractor.
- .3 Panel lines, breaks and angles to be sharp and true; panel surfaces to be free from warp or buckle.
- .6 Panel System: Dry Joint SL-2000 with 1/2" (12.5mm) wide panel joints using proprietary aluminum extrusions including circular column profiles.
- .7 Acceptable material and manufacturer:
- .1 Alucobond supplied by Sobotec Ltd., 67 Burford Rd., Hamilton, Ontario, L8E 3C6 Tel: (905) 578-1278.
- .2 Panel finishes: Kynar, two/three coat, coil-coated baked enamel finish containing Kynar 500 polyvinylidene fluoride resin. Colours: From standard colour range .
- .3 Panel and Wall Accessories:
- .1 Provide proprietary aluminum extrusions to manufacturer's standard profiles for a complete installation.
- .2 Fasteners: as recommended by the panel manufacturer, concealed and non-corrosive.
- .3 Extrusions and extrusion clips for attaching panels to the sub-structure: purpose made aluminum. Extrusions shall be full length around panel perimeter for panel reinforcement and alignment. Intermittent clips are unacceptable.

- .4 Plastic shims, shall be used as thermal separator between extrusions and subgirts.
- .5 Subgirts: If required, to be manufactured from G-90 galvanized and shall be designed to accommodate expansion and contraction, dynamic movements and design load requirements.
- .6 Joint filler strip: same material and colour as panels. Use of caulking at joints is not acceptable.

### **2.3 MISCELLANEOUS MATERIALS**

#### **.1 FASTENERS**

All self-tapping/self-drilling fasteners and rivets shall be designed to withstand specified design loads.

All fasteners to be manufactured from series 304 austenitic stainless steel. Rivet style fasteners to be manufactured from aluminum or stainless steel.

Provide neoprene washers under the heads of all exposed fasteners.

Use proper torque settings to obtain controlled uniform compression for a positive seal without rupturing the neoprene washer.

#### **.2 ACCESSORIES**

Provide all components required per the approved shop drawings for a complete metal wall system to include panels, fasteners, trims/flashings, extrusions and any other required items.

### **2.4 FABRICATION**

#### **.1 PANELS**

Provide factory formed panels to dimensions to suit drawings and site conditions.

#### **.2 TRIM/FLASHING**

Fabricated trims/flashings to be from same material and gauge as wall panel system. Fabricate trims/flashings in accordance with approved shop drawings and applicable standards.

## **Part 3 Execution**

#### **.1 EXAMINATION**

Examine the alignment and placement of the building structure and substrate. Correct any objectionable warp, waves or buckles in the substrate before proceeding with installation of the pre-formed metal roofing. The installed roof panels will follow the contour of the structure and may appear irregular if not corrected.

Do not proceed with installation until discrepancies have been resolved.

### **3.2 INSTALLATION**

.1 Before proceeding, examine work of other sections upon which this section depends.

.2 Install air barrier and subgirts.

.3 Erect panels and joint filler strip in accordance with system manufacturer's details and instructions and so as to meet specified design criteria and performance.

- .4 Finished work shall be securely anchored, free of distortion and surface imperfections, uniform in colour.
- .5 Use concealed fastenings only.
- .6 Install panels plumb, true, level and in alignment to established lines and elevations.
- .7 Install roofing and flashings in accordance with approved shop drawings and manufacturer's product data, within specified erection tolerances.
- .8 Anchor panels securely in place using fasteners and spacing in accordance with manufacturer's recommendations.
- .9 Do not allow panels or trim to come in contact with dissimilar materials such as copper, fire retardant treated timber, concrete/mortar. Water runoff from dissimilar materials is also prohibited

### **3.3 CLEANING**

- .1 Clean exposed surfaces of excess material and debris promptly after completion of installation.
- .2 Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance.

### **3.4 PROTECTION**

- .1 Protect work as required to ensure wall panel system will be without damage at time of final completion.
- .2 Replace products having damage other than minor finish damage.
- .3 Repair products having minor damage to finish in accordance with panel manufacturer's recommendations.

**End of Section**