

The following Addendum forms part of the Contract Documents for the Grand Valley Institute for Women – Principal Entrance Building (Project number R.047995.001). The following changes, additions or deletions shall be made to the following documents as indicated and all other Contract Documents shall remain the same.

This Addendum Number 03 contains 3 written pages, 1 Specification Section (12 24 13) and 2 attached drawings (SKA-007, SKA-008).

## **ARCHITECTURAL**

### **Specification:**

#### **Section 05 50 00 – Metal Fabrications**

1. Item 2.10; Revise to read as follows:

##### **2.10 Corner Guards:**

- .1 Surface Mounted, Metal Corner Guards (CG): Fabricated from single piece, formed metal with eased edges; bend angle turn to match wall condition, and as follows:
  - .1 Material: Stainless steel, Type 304
  - .2 Thickness: Minimum 1.519 mm
  - .3 Finish: Directional satin, No. 4
  - .4 Wing Size: Nominal 65 mm x 65 mm
  - .5 Corner Radius: 3 mm
  - .6 Mounting: Flat head, countersunk screws through factory drilled mounting holes

#### **Section 07 41 13.19 – Zinc Standing Seam Metal Roofing System**

1. Section 07 41 13.19; Revise Section title to read as follows:  
Section 07 41 13.19 – Zinc Metal Roofing System
2. Item 1.1; revise to read as follows:
  - 1.1 This Section includes requirements for supply and installation of factory formed, site assembled, non-structural, concealed fastener, insulated architectural metal roofing system; including accessories required for weather tight installation; job site manufactured materials will not be acceptable for this project.
3. Item 2.1; Revise to read as follows:
  - 2.1 METAL ROOFING SYSTEM
4. Item 2.1.8; Revise to read as follows:
  - .8 Splice Tapes: Manufacturer's recommended slicing tapes placed as a part of double lock seams.
5. Item 2.1.13; Add as follows:
  - .13 Roof Sheathing: Plywood roof sheathing conforming to either CSA O121 or CSA O151.
6. Item 3.3.6; Revise to read as follows:
  - .6 Fasten metal roofing system to supports with concealed clips at each joint location, spacing, and with fasteners recommended by manufacturer, and as follows:

#### **Section 10 51 13 – Metal Lockers – LK-2**

1. Item 2.2.3; Add as follows:
  - .3 Security Lockers: Fabricate in accordance with CGSB 44.40, and as follows:
    - .1 Type: Type 1 Single full height locker.
    - .2 Class: Class 1 One complete locker

- .3 Installation: Freestanding.
- .4 Size: Nominal 760 mm wide x 610 mm deep x 2134 mm high.
- .5 Sheet Steel Thickness: Minimum 1.897 mm, base metal thickness.
- .6 Assembly: Welded construction.
- .7 Top: Flat.
- .8 Doors: One piece double wall envelope construction, minimum nominal wire thickness steel thickness 2.5 mm.
- .9 Door Handle: Recessed handle stainless steel.
- .10 Door Strike: Continuous.
- .11 Door Style: Perforated panel
- .12 Hinges: Minimum three (3) concealed leaf fast pin type hinges, minimum 50 mm long opening 180°; fabricated from 1.897 mm base metal thickness steel securely fastened to door and frame and having non removable pins.
- .13 Basis-of-Design Manufacturer: AW Systems TA-50

Section 12 24 13 - Roller Window Shades

1. Section 12 24 13; Add and forms part of this Addendum

Section 32 31 14 - Steel Chain Link Fence

1. Item 2.2.14; Add as follows:
  - .14 Gates to have electric strike and handle, self closing hinges. All work to be tied into GVI security system. Provide all conduit as required.

**ARCHITECTURAL**

Drawing:

Drawing A1.01 - Phasing Plans

1. As part of "Phase 1 - Establish Entrance By-Pass": 1500mm Temporary Walkway to be constructed with light-duty asphalt from new Entry Door in perimeter security fence to the existing building's main entrance
2. As part of "Phase 3 - Renovation & Site Work": Temporary Walkway to be removed. Grade and re-sod area to match adjacent.

Drawing A2.01 - Ground Floor Plan A

1. Unit pavers to be provided in courtyard area in accordance with specifications

Drawing A5.13 - Main Stair Details

1. Main Stair tread detail revised as shown in SKA-007, which forms part of this addendum
2. Main Stair stringer detail revised as shown in SKA-008, which forms part of this addendum

Drawing A8.01 - Ground Floor Finishes Plan A

3. In accordance with the specification, provide window shades for the exterior windows/curtain walls in the following rooms: P102, P103, P106, P113, P138, P140

Drawing A8.03 - Second Floor Finishes Plan

1. In accordance with the specification, provide window shades for the exterior windows of the following rooms: P201, P202, P203, P204, P207, P208, P209, P210, P219, P220, P224, P225, P226, P227

Drawing SKA-001 - Landscape Plan

1. Provide planting as follows:

Silver Edge Dogwood	500mm spread	potted	2 year minimum	21
Japanese Rose	500mm spread	potted	2 year minimum	21
Greenwave Yew	400mm spread	potted	2 year minimum	20
Andersoni Yew	400mm spread	potted	2 year minimum	21
Hughes Juniper		potted	2 year minimum	50
Mountain Lover		potted	2 year minimum	50

End of ADDENDUM Number 03

**Part 1 General**

**1.1 SUMMARY**

- .1 This Section includes provisions for manual operated interior roller shades, mounted to underside of ceiling and recessed in metal ceiling pocket as indicated on Drawings.

**1.2 REFERENCE STANDARDS**

- .1 American Architectural Manufacturer's Association (AAMA):
  - .1 AAMA 611-98, Voluntary Specification for Architectural Anodized Aluminum
- .2 American National Standards Institute (ANSI)/Window Covering Manufacturers Association (WCMA):
  - .1 ANSI/ WCMA A100.1-2010, Safety of Corded Window Covering Products
- .3 American Society for Testing and Materials (ASTM):
  - .1 ASTM B429-02, Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube
- .4 Underwriters Laboratories Canada (ULC):
  - .1 CAN/ULC S109-03 Flame Tests of Flame Resistant Fabrics and Films

**1.3 SUBMITTALS**

- .1 Provide required information in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Action Submittals: Provide the following submittals before starting any work of this Section:
  - .1 Product Data: Submit information for each type of product indicated including, but not limited to, the following:
    - .1 Styles, material descriptions, construction details, dimensions of individual components and profiles, features, and finishes.
    - .2 Operating instructions
  - .2 Shop Drawings: Submit shop drawings indicating location and extent of roller shades including, but not limited to, the following:
    - .1 Elevations, sections, details, and dimensions not shown in submitted product data.
    - .2 Installation details, mountings, attachments to other work, operational clearances, and relationship to adjoining work.
  - .3 Samples:
    - .1 Initial Samples: Submit samples for initial selection for each fabric and valence material of each type of roller shade indicated; including related exposed materials.
    - .2 Verification Samples: Submit samples for verification of selected products as follows:
      - .1 Complete, full-size operable unit x 400 mm long minimum for each type of roller shade indicated.

- .2 Duplicate sample of shade material not less than 300 mm square; mark top face of material.
    - .3 Full size valence unit x 300 mm long minimum.
  - .4 Schedule: Submit window shade schedule using same room designations as indicated on Drawings.
- .3 Informational Submittals: Provide the following submittals when requested by the Departmental Representative:
  - .1 Coordination Drawings: Submit coordination drawings comprised of reflected ceiling plans drawn to scale and coordinating penetrations and ceiling mounted items including, but not limited to, the following:
    - .1 Ceiling suspension system members and attachment to building structure.
    - .2 Ceiling mounted or penetrating items including light fixtures; air outlets and inlets; speakers; sprinklers; recessed shades; and special mouldings at walls, column penetrations, and other junctures of acoustical ceilings using joining construction.
    - .3 Shade mounting assembly and attachment.
    - .4 Minimum Drawing Scale: 1:50
  - .2 Certificates: Submit product certificates for each type of roller shade product, signed by product manufacturer stating that materials installed match performance requirements specified in this Section.

#### **1.4 PROJECT CLOSEOUT SUBMISSIONS**

- .1 Operation and Maintenance Data: Submit manufacturer's written instructions for operations and maintenance procedures, include name of original installer and contact information in accordance with Section 01 78 00 – Closeout Submittals and as follows:
  - .1 Methods for maintaining roller shades and finishes.
  - .2 Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
  - .3 Operating hardware.
- .2 Submit manufacturer's standard maintenance contract for review and consideration by Departmental Representative.

#### **1.5 QUALITY ASSURANCE**

- .1 Regulatory Requirements:
  - .1 Flame Spread Rating: Provide roller shade panel materials with flame spread and smoke developed characteristics required by Authority Having Jurisdiction, as determined by testing identical products in accordance with CAN/ULC S109.
- .2 Qualifications:
  - .1 Installer: Installer experienced and that has completed installations of roller shades similar in material, design, and extent to that indicated in this Section; submit proof of capabilities when requested by Departmental Representative.
  - .2 Supplier: Obtain roller shades through one source from a single manufacturer, from a manufacturer approved supplier.

**1.6 DELIVERY, STORAGE AND HANDLING**

- .1 Delivery and Acceptance Requirements: Deliver shades in factory packages, marked with manufacturer and product name, fire test response characteristics, and location of installation using same room designations indicated on Drawings and in a window shade schedule.

**1.7 SITE CONDITIONS**

- .1 Site Measurements: Verify dimensions by site measurements before fabrication and indicate measurements on shop drawings where roller shades are indicated to fit between other construction; coordinate fabrication schedule with construction progress to avoid delaying the work, and as follows:
  - .1 Allow clearances for operable glazed units' operation hardware throughout the entire operating range.
  - .2 Notify Departmental Representative of discrepancies.
- .2 Established Dimensions: Establish dimensions and proceed with fabricating roller shades without site measurements where site measurements cannot be made without delaying the Work; coordinate construction to ensure that actual site dimensions correspond to established dimensions; allow for trimming and fitting.

**Part 2 Products**

**2.1 PERFORMANCE REQUIREMENTS**

- .1 Roller window shade when lowered has fabric taught and without sagging, with bottom of shade fabric straight and level.

**2.2 ASSEMBLIES**

- .1 Manual Chain Operators: Continuous loop bead chain, clutch, and cord tensioner lift operator.
  - .1 Location of Operator: to suit operating requirements indicated on Drawings; use offset drive operator; chain falls only on one side of bracket for blackout fabric shades.
  - .2 Clutch: Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
  - .3 Lift Assist Mechanism: Manufacturer's standard spring assist for balancing roller shade weight and lifting heavy roller shades.
  - .4 Loop Length: Length required to make operation convenient from floor level
  - .5 Bead Chain Material: Continuous loop of #10 stainless steel bead chain or nickel-plated steel having a rated strength of 40 kg minimum to prevent chain breakage under normal operating conditions; and as limited by ANSI/WCMA A100.1 safety requirements, and as follows:
    - .1 Single chain operator with inertia brake mechanism capable of locking the shade panel at any point of travel. Gear reduction chain operator with inertia braking mechanism capable of locking shade panel at any point of travel.

- .2 Chain drive operator that positively engages drive mechanism through internal profile configuration. Friction fitted engagement of the roller tube to drive mechanism will not be acceptable.
- .3 Chain operator that prohibits operation by pulling on hem bar.
- .6 Operating Function: Stop and hold shade at any position in ascending or descending travel.
- .2 Materials
  - .1 Shade Fabric Non- PVC-coated Fibreglass and acrylic blend, and as follows:
    - .1 Fabric Openness Factor: 5% openness
    - .2 Room Darkening Fabric: Non-PVC-coated fibreglass and polyester blends, and as follows:
      - .1 Material Colour: As selected by Departmental Representative from manufacturer's full range
  - .2 Roller Components:
    - .1 Roller Tube: One piece, extruded aluminum, 6061-T6 or 6063-T6, meeting the requirements of ASTM B429, or steel with galvanized or epoxy finish, and as follows:
      - .1 Protective Finish: AA-M12C22A21, medium matte anodic coating; clear coating 0.025 mm minimum in accordance with AMA 611. Roller tubes with mill finish are not acceptable.
      - .2 Tube Diameter and Thickness: As recommended by manufacturer for maximum allowable deflection of L/700.
      - .3 Tube Configuration: Tube profile with provision for mechanical engagement with the operator and drive assembly; and having channels to accept fabric spline attachment.
      - .4 Removable from brackets without hardware removal; non-metal components and self-lubricating.
  - .3 Fabric Spline: Extruded vinyl profile, welded to fabric panel, allowing removal and re-installation of shade fabric without removing the roller tube or hardware and having the following characteristics:
    - .1 Fabric bands or panels must be replaceable on site.
    - .2 Attachment of the fabric to the tube with double-sided adhesive tapes, adhesives, staples or rivets is not acceptable.
  - .4 Hem Bars and Hem Bar Pockets:
    - .1 Oval profile, aluminum or steel; nominal 35 mm wide x 10 mm thick and having 1.8 mm wall thickness having matching end caps, pre-weighted to maintain bottom of shade fabric straight and flat; clear anodized aluminum; attached to fabric panel using welded fabric spline.
- .3 Finishes: Clear Anodized aluminum.
  - .1 Fascia: L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom of shade roller, brackets, and operating hardware and operators; length as in a window shade schedule; removable design for access.

- .4 Pocket-Style Headbox: U-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; using bottom cover consisting of slot opening of minimum dimension to allow lowering and raising of shade and a removable or openable, continuous metal access panel concealing shade roller, brackets, and operating hardware and operators within.
- .5 Fasteners: Non-corrosive fasteners as recommended by manufacturer.

## 2.3 ROLLER SHADE FABRICATION

- .1 Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.
- .2 Concealed Components: Lifting mechanism with permanently lubricated moving parts.
- .3 Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 23° C:
  - .1 Shade Units Installed Outside Jambs: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- .4 Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting fascia and headbox, roller, and operating hardware and for hardware position and shade mounting method indicated.
- .5 Installation Fasteners: Two fasteners per bracket minimum, with metal non-corrosive to shade materials and adjoining construction; suitable to secure to supporting substrate; and supporting shades and accessories under conditions of normal use.
- .6 Hembar: Exposed extruded aluminum alloy, oval shaped profile 35 mm x 10 mm x 1.8 mm thick, with matching end caps, pre-weighted, to maintain bottom of shade fabric straight and flat. Colour clear anodized aluminum.

## 2.4 ACCESSORIES:

- .1 Aluminum Fascia:
  - .1 Back / Regular Roll Shade Fascia:
    - .1 Extruded aluminum alloy 6063-T5, prefinished, 105 mm x 45 mm x 1.6 mm wall thickness, custom designed profile to fit onto premoulded end mounting brackets without exposed fasteners. Colour clear anodized aluminum.
    - .2 Fascia that allows for continuous placement across multiple shades, to a maximum length of 6100 mm without exposed fasteners.
    - .3 Fascia with concealed mounting hardware, power and control cables, drive mechanism, roller tube, and all fabric rolled on the tube.
  - .2 Front / Reverse Roll Shade Fascia:
    - .1 Extruded aluminum alloy 6063-T5, prefinished, 105 mm x 10 mm x 1.6 mm wall thickness, custom designed closure to fit onto premoulded end mounting brackets without exposed fasteners.
    - .2 Fascia that allows for continuous placement across multiple shades, to a maximum length of 6100 mm without exposed fasteners.



- .3 Fascia with concealed mounting hardware, power and control cables, drive mechanism, roller tube, and all fabric rolled on the tube.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Examine substrates, areas, and conditions, with installer present, for compliance with requirements for substrate surface tolerances, operational clearances, and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.
- .2 Verify ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- .3 Installation roller shades after wet and dust producing work is complete
  - .1 Installation of products specified in this Section will denote acceptance of site conditions.

**3.2 INSTALLATION**

- .1 Install roller shades level, plumb, square, true and according to manufacturer's written instructions. Allow clearances for window operation hardware.

**3.3 SITE QUALITY CONTROL**

- .1 Replace damaged roller shades that cannot be repaired, to appear new before time of Substantial Completion.

**3.4 ADJUSTING**

- .1 Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- .2 Adjust and set roller shade travel length of operator assembly on-site without disassembly of hardware to suit travel length of shade panel.

**3.5 CLOSEOUT ACTIVITIES**

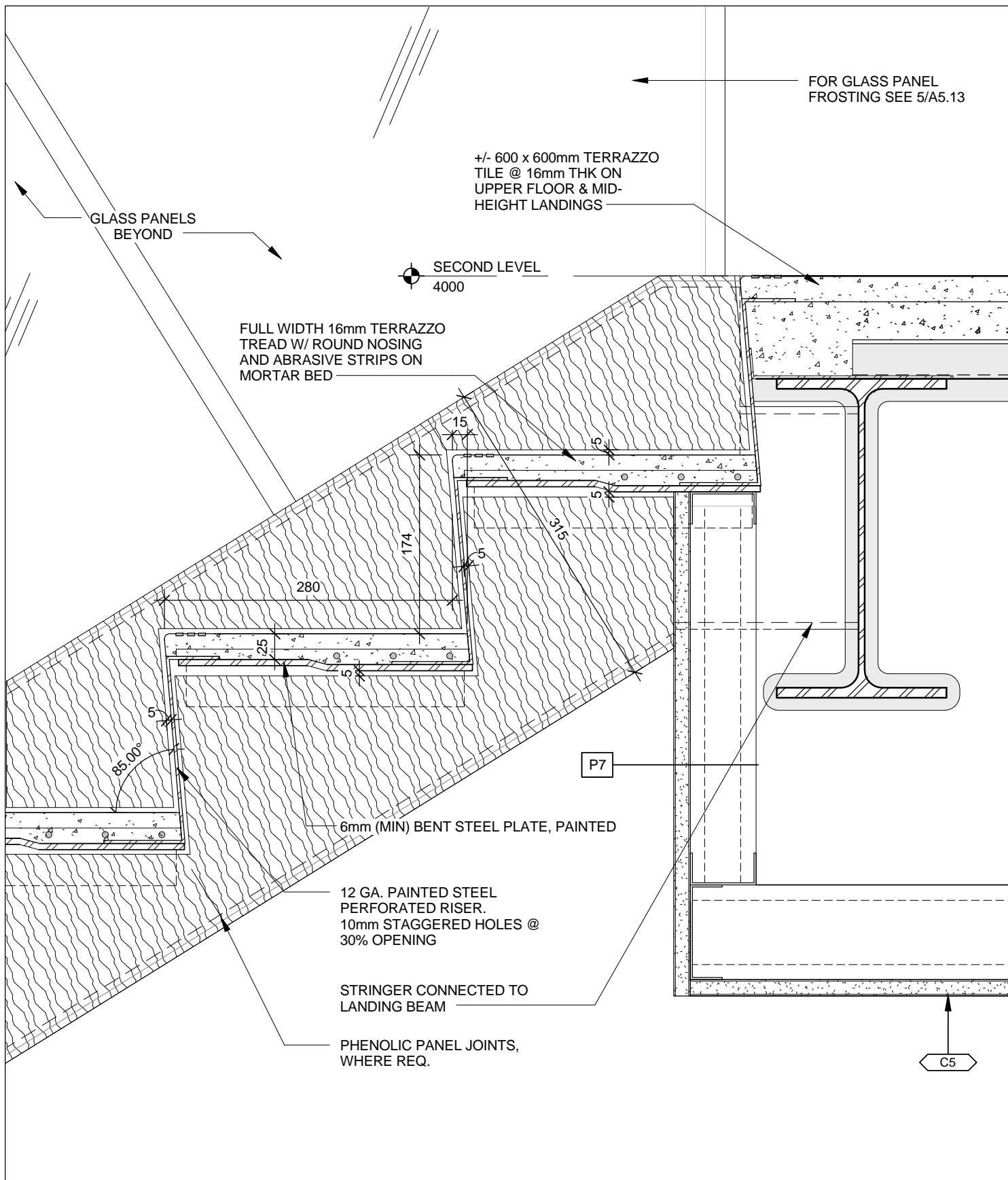
- .1 Cleaning: Clean roller shade surfaces after installation, following manufacturer's written instructions.

**3.6 DEMONSTRATION**

- .1 Engage a factory-authorized service representative to train maintenance personnel to operate, adjust, and maintain systems.

**END OF SECTION**

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TO BE READ IN CONJUNCTION WITH DRAWING: A5.13

**DIALOG™**

PROJECT TITLE: PRINCIPAL ENTRANCE BUILDING

DRAWING NUMBER: SKA-007

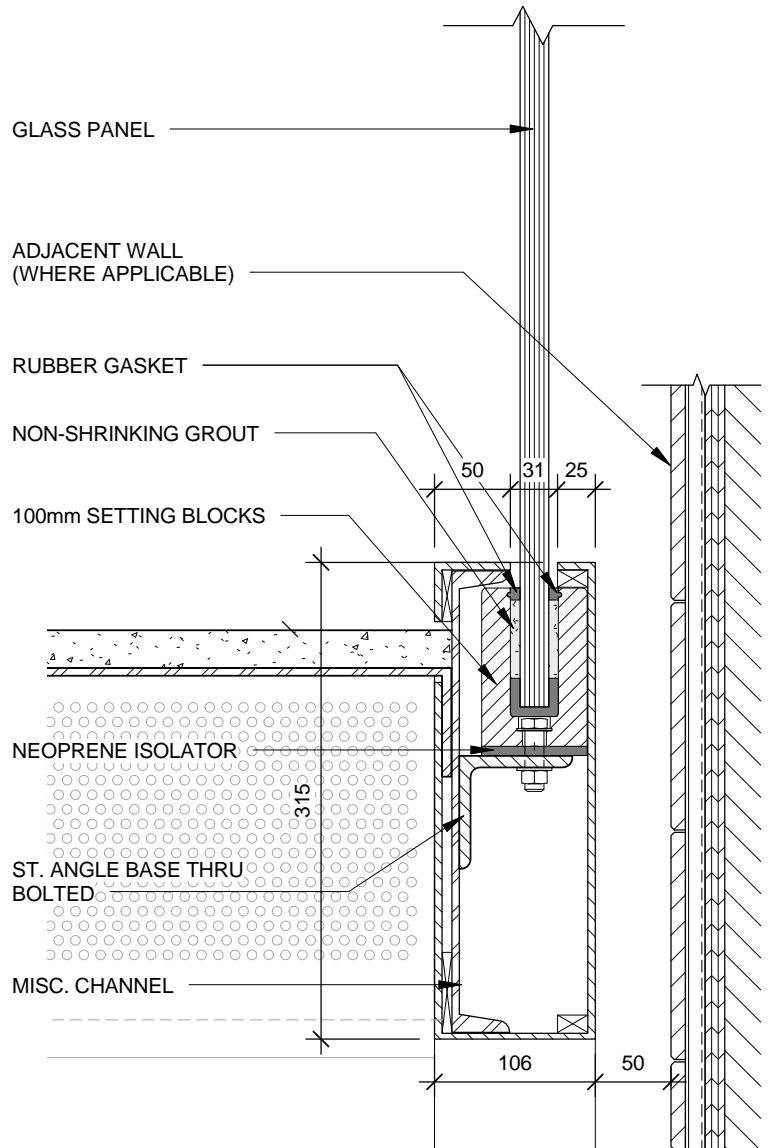
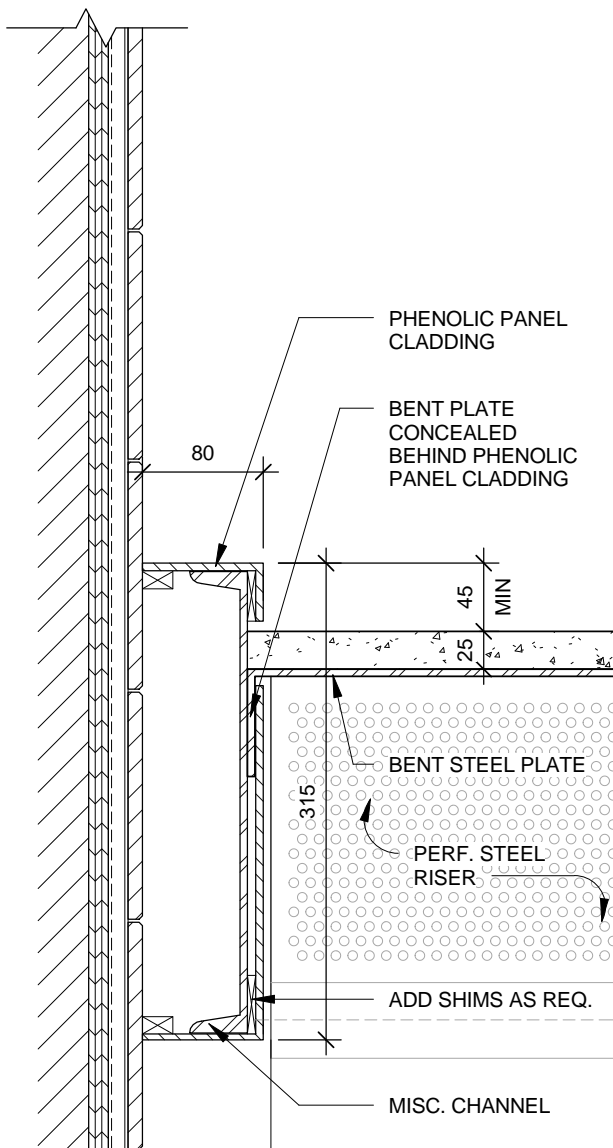
PROJECT #: R.047995.001

DRAWN BY: GG

DRAWING TITLE: MAIN STAIR TREAD DETAIL

CHECKED BY: RN

DATE: 11/21/13



TO BE READ IN CONJUNCTION WITH DRAWING:

**DIALOG™**

PROJECT TITLE: PRINCIPAL ENTRANCE BUILDING

DRAWING NUMBER: SKA-008

PROJECT #: R.047995.001

DRAWN BY: GG

DRAWING TITLE: MAIN STAIR STRINGER DETAIL

CHECKED BY: RN

DATE: 11/21/13