**ADDENDUM NUMBER:** **ONE**

**ISSUED BY:** **SEPW Architecture Inc.**
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**PROJECT:** **ROOF & FOUNDATION REMEDIATION**

**REGINA, SASKATCHEWAN**

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This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications dated 2015-03-06, previous Addenda if applicable and as noted below. This Addendum consists of 6 pages and attached Specifications and Attachments as listed below. Ensure that all parties are aware of all items included in this Addendum.

**The following revised or additional Specifications and Attachments accompany and form an integral part of this Addendum:**

| Section No. | Title |
|---|---|
| 05 50 00 | METAL FABRICATIONS |
| 07 72 33 | ROOF HATCHES |

| Attachment |
|---|
| 1. AR1 |
| 2. AR2 |

## 20-2014 FOUNDATION REMEDIATION

### A-1-1 REF. BID AND ACCEPTANCE FORM (BA 06)

1. Revise BA 06 Construction Time to the following: "The Contractor shall perform and complete the Work by November 7th,2016."

### A-1-2 REF. DRAWING A1.0 COVER PAGE, SITE PLAN

1. Revise scale on detail 1/A1.0 from 1:150 to 1:300.

### A-1-3 REF. DRAWING L.1 EXISTING CONDITIONS & SITE PREP

1. Revise note "remove and reinstall unit pavers as needed" to the following: "remove and reinstall unit pavers as needed. Unit pavers to have 25mm bedding sand, 150mm compacted granular base over compacted subgrade below.

2. Revise notes "remove concrete to extent required, sawcut concrete along control joints, reinstall, finish and control joints to match existing" to the

following: “remove concrete to extent required, sawcut concrete along control joints, reinstall, finish and control joints to match existing. Sidewalks to have 150 compacted granular base, with compacted subgrade below.”

3. Revise note “interpretive sign, salvage, reinstall” to the following: “interpretive sign, salvage, reinstall. New concrete pile to be 2000 long, 300 diameter. Attachment of post to concrete to match existing.”

4. Revise note “remove and reinstall gazebo and granular mulch” to the following: “remove and reinstall gazebo and granular mulch. Gazebo foundation and substrate materials and depths to match existing.”

**A-1-4 REF. GENERAL QUESTIONS**

1. Q: Detail 8/A1.1 shows the prefinished metal flashing extending behind the brick. Are we to remove courses of brick as required to install thru-wall flashing?
A: The thru-wall flashing shown is existing. The new metal flashing shown is to be installed tight to the underside of this flashing. See detail 8/A1.1.

2. Q: Please check the scale of drawing A1.0. 1:150 does not seem to be accurate when measured against comparable.
A: See A-1-1.

3. Q: What are the requirements for the structure below the paving stones to be re-instated, substrate materials?
A: See A-1-2.

4. Q: What are the requirements for the structure below the sidewalks to be re-instated, substrate materials?
A: See A-1-2

5. Q: What are the foundation requirements for the interpretive sign to be re-installed, due to the excavation required the existing foundation of this sign may be compromised.
A: See A-1-2

6. Q: Please provide granular mulch requirements and thickness below gazebo during re-installation.
A: See A-1-2

**<u>21-2014 ROOF REMEDIATION</u>**

**A-1-5 REF. BID AND ACCEPTANCE FORM (BA 06)**

1. Revise BA 06 Construction Time to the following: “The Contractor shall

perform and complete the Work by November 7th,2016."

**A-1-6 REF. SECTION 05 55 00 METAL FABRICATIONS**

1. Add Section 05 55 00 Metal Fabrications.

**A-1-7 REF. SECTION 07 72 33 ROOF HATCHES**

1. Add Section 07 72 33 Roof Hatches.

**A-1-8 REF. DRAWING A2.0 ROOF PLAN**

1. Add the following note: "Note: Access hatches associated with Roof 'C' and 'D' to be ¾ hour fire rated access hatches."
2. Revise W2 wall type as follows: Replace 12.7 glass mat sheathing with 13 plywood sheathing.
3. Revise 1/A2.0 as indicated in attached sketch AR1.

**A-1-9 REF. DRAWING A3.1 BUILDING SECTIONS**

1. Revise detail callout in detail 3/A3.1 from 7/A4.0 to 4/A4.0
2. Revise detail callout in detail 3/A3.1 from 8/A4.0 to 5/A4.0

**A-1-10 REF. DRAWING A4.1 SECTION DETAILS**

1. Add detail 6 on AR2 to A4.1.

**A-1-11 REF. DRAWING S1 ROOF PLAN**

1. Delete note " Sawcut and remove existing conc. roof slab for 600x 600 access. Coordinate exact loc'n with arch." from roof 'A' and 'B'

**A-1-12 REF. DRAWING S2 SECTIONS**

1. Detail 2: Delete note " Sawcut and remove existing conc. roof slab for 600x 600 access. Coordinate exact loc'n with arch."
2. Detail 2: Add note " Reinforce new roof hatch opening with C150x12 typ. 4 sides.Provide L152x152x9.5x4" lg saddle at bearing on 152 load bearing stud wall. Coordinate size and location of new opening with architectural."
3. Add label 1/S1 to detail in top left corner of sheet S-2.
4. Add label 2/S1 to detail in top right corner of sheet S-2.
5. Add label 3/S1 to detail in middle left of sheet S-2.
6. Add label 4/S1 to detail in middle right of sheet S-2.

**A-1-13 REF. DRAWING M-1 PARTIAL ATTIC PLAN, EQUIPMENT**

**SCHEDULE**

1. Delete note " Provide 600 x 600 access door from stairwell into attic space" from roof 'A' and 'B'.

**A-1-14 REF. GENERAL QUESTIONS**

1. Q: Can you provide clarification of the mechanical louvre structures that are to be demolished as detailed in detail 5 on drawing A1.1 for project 21-2014? The note indicates concrete block is to be demolished. Does this entire structure consist of concrete below the cladding?
   A: The sidewalls of this structure are concrete block. The remainder of the structure is concrete.

2. Q: 3/A3.1 refers to detail 8 on drawing A4.0. Can you please provide this detail?
   A: See A-1-7

3. Q: 3/A3.1 refers to detail 7 on drawing A4.0. Can you please provide this detail?
   A: See A-1-7

4. Q: As per detail 3 on drawing A3.1 in reference to details 7 & 8 on A4.0, please provide details as these are not shown on drawings A4.0.
   A: See A-1-7

5. Q: Request for equals: Ventex Louvers and Dimplex Electric Force Flows
   A: Specifications for this equipment are performance based and therefor equals are not reviewed. If the equipment meets the specifications then it is acceptable.

6. Q: Can you please clarify the structure of the wall types for this project? Drawing A2.0 indicates 12.7mm Glass Mat sheathing is applied to the steel studs. However, drawing S-2 indicates that 13mm plywood sheathing is applied to the steel studs.
   A: See A-1-6

**QUESTIONS COMMON TO BOTH ROOF & FOUNDATION REMEDIATION**

**A-1-15 REF. GENERAL QUESTIONS**

1. Q: Will power be provided to us? Will there be a cost associated with it?
   A: Refer to Section 01 51 00 Temporary Utilities. Power will be provided at no cost, however the Contractor has to provide the cabling and labour to reach the power source.

2. Q: Please provide location for laydown area and trailer area.
A: Departmental Representative will advise location of laydown area after contract award but it will be in the vicinity of the APS building.

3. Q: Section 01 14 00 item 1.2.1 states that "ALL" personnel engaged in the execution of interior works require RRS clearance and that we're to allow 4 months for all documentation to be processed. With the stipulated completion date of October 31, 2106 how will the requirement be met? Can you please clarify this security clearance requirements for the project?
A: Disregard this information in Section 01 14 00. Refer to SI09 of the Supplemental Instructions to bidders and SC01 of the Supplemental conditions.

4. Q: Section 01 14 00 item 1.2.2 states a minimum of 4 months prior to interim completion of the project all RRS documents are to be submitted, please clarify as from the anticipated award date to stipulated completion we cannot meet this requirement?
A: Disregard this information in Section 01 14 00. Refer to SI09 of the Supplemental Instructions to bidders and SC01 of the Supplemental conditions.

5. Q: Please provide the temporary site security fence location that will be permitted on this project, we are assuming at this time half street closure on all 3 sides of the building as no limits have been.
A: Only the west side of the building will have half street closure.

6. Q: Please provide the intent of the price breakout for projects 20-2014 & 21-2014, is this for budget allocation purpose only? Is there a possibility that only 1 project could be awarded? If 1 of the projects is over budget will only the project on or below buget be awarded?
A: These are two projects requiring separate financial reporting.

7. Q: Will a portion of Shaw Street, Pierlet Avenue or Arnold Mews street be closed off in order to facilitate a site trailer and laydown area? Please Provide specific laydown to be utilized by contractors?
A: Departmental Representative will advise location of laydown area after contract award but it will be in the vicinity of the APS building.

8. Q: Please provide location for salvaged planting material to be relocated during the foundation remediation, c/w location from site and water availability?
A: Departmental Representative will advise location of laydown area after contract award but it will be in the vicinity of the APS building. Contractor responsible to relocate the salvaged plants within laydown area.

## Part 1 General

### 1.1 RELATED REQUIREMENTS

.1 Section 01 00 05 – General Requirements.

.2 Section 06 10 11 – Rough Carpentry

.3 Section 07 52 00 - Modified Bituminous Roofing

.4 Section 07 62 00 - Sheet Metal Flashing and Trim

### 1.2 REFERENCES

.1 ASTM International

.1 ASTM A506-12, Standard Specification for Alloy and Structural Alloy Steel, Sheet and Strip, Hot-Rolled and Cold-Rolled.

.2 ASTM A653/A653M-11, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

.2 CSA International

.1 CSA B111-1974(R2005), Wire Nails, Spikes and Staples.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 00 05 – General Requirements.

.2 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for roof hatches and include product characteristics, performance criteria, physical size, finish and limitations.

.3 Shop Drawings:

.1 Submit drawings stamped.

.1 Indicate size and description of components, materials, attachment devices, description of frame and finish, and construction details.

.4 Manufacturer's Instructions:

.1 Submit manufacturer's installation instructions.

### 1.4 QUALITY ASSURANCE

.1 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.

.2 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

### 1.5 CLOSEOUT SUBMITTALS

.1 Submit in accordance with Section 01 00 05 – General Requirements.

.2 Submit operation and maintenance data for hardware complete with pertinent details, spare parts lists and warnings against harmful maintenance materials and practices for incorporation into manual.

**1.6 DELIVERY, STORAGE AND HANDLING**

.1 Deliver, store and handle materials in accordance with Section 01 00 05 – General Requirements and 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 accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

.2 Store and protect roof hatches from nicks, scratches, and blemishes.

**Part 2 Products**

**2.1 DESIGN REQUIREMENTS**

.1 Roof hatches must withstand snow load of 2.0 $kN/m^2$, and wind uplift of 1.0 $kNm/m^2$ and temperature range of -40 to 40 degrees C without damage to unit or permanent deformation to seals.

.2 Thermal insulation: RSI 2.11 (R12)

**2.2 MATERIALS**

.1 Steel sheet: regular quality alloy steel to ASTM A506.

.2 Aluminum sheet: mill finish plain utility sheet.

.3 Aluminum: extruded sections of AA6063-T5 alloy, all components one piece without splices.

.4 Gaskets: extruded resilient neoprene or EPDM , with full recovery after 50% compression.

.5 Fasteners: screws to manufacturers standard

.6 Sealants: Urethane two part.

.1 Non-sag to CAN/CGSB-19.24, Type 2, Class B, colour to match adjacent surfaces.

.7 Primers Paints Coating: in accordance with manufacturer's recommendations for surface conditions

.8 Primer paint for steel: to MPI #76.

.9 Isolation coating: alkali resistant bituminous paint or epoxy solution.

**2.3 HATCH COVER**

.1 Metal Cover:

.1 Preformed sheet aluminum, insulated sandwich construction. Provide rigid insulation to RSI 2.11

**2.4 CURBED FRAME**

.1 Preformed metal curb: insulated sandwich construction, with deck flange for attachment. Provide rigid insulation to RSI 2.11.

**2.5 ACCESSORIES**

.1 Screws: type recommended by roof hatch manufacturer.

.2 Hinges: stainless steel, type recommended by roof hatch manufacturer .

.3 Latch: positive snap with turn handles inside and out and padlock hasps inside.

.4 Lifting mechanism: reinforced tubes and compression springs.

.5 Securing latch: hold open operating arm with vinyl grip handle to permit one-handed release.

.6 Resilient gasket/seal to inner face of lid in contact with hatch lid support frame.

**2.6 FABRICATION**

.1 Fabricate components free of twists, bends, or visual distortion and insulated. Weld corners and joints.

.2 Assemble roof hatch components as indicated.

.3 Ensure continuity of weather-tight seal.

.4 Design flashings and extrusions to collect and lead off accumulated condensation.

.5 Zinc plate hardware and attachments and shop prime ready for field painting.

**Part 3 Execution**

**3.1 EXAMINATION**

.1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for roof hatch installation in accordance with manufacturer's written instructions.

**3.2 MANUFACTURER'S INSTRUCTIONS**

.1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

**3.3 INSTALLATION**

.1 Erect components plumb, level and in proper alignment.

.2 Ensure continuity of building envelope air barrier and vapour retarder systems.

.3 Adjust and seal assembly with provision for expansion and contraction of components.

.4 Secure roof hatch to structure.

.5 Coat aluminum and copper in contact with dissimilar materials, with isolation coating.

.6 Secure and seal frame to curb.

## 3.4 CLEANING

.1 Remove surplus materials, rubbish, tools and equipment in accordance with Section 01 00 05 General Requirements.

## 3.5 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by roof hatch installation.

**END OF SECTION**

## Part 1 General

### 1.1 RELATED REQUIREMENTS

.1 Section 01 00 05 – General Requirements.

.2 Section 09 91 99 – Painting For Minor Works

### 1.2 REFERENCES

.1 CSA International

.1 CSA G40.20/G40.21-04(R2009), General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.

.2 CAN/CSA G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

.3 CSA W48-06, Filler Metals and Allied Materials for Metal Arc Welding (Developed in co-operation with the Canadian Welding Bureau).

.4 CSA W59-M03(R2008), Welded Steel Construction (Metal Arc Welding) Metric.

.2 The Master Painters Institute (MPI)

.1 Architectural Painting Specification Manual - current edition.

### 1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 00 05 – General Requirements.

.2 Shop Drawings:

.1 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

### 1.4 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 01 00 05 – General Requirements.

.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 accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

.2 Replace defective or damaged materials with new.

## Part 2 Products

### 2.1 MATERIALS

.1 Steel sections and plates: to CSA G40.20/G40.21, Grade 300W

.2 Steel pipe: to ASTM A53/A53M standard weight galvanized finish.

.3 Stainless steel tubing: to ASTM A269, Type 302, commercial grade, seamless welded with Satin finish.

.4 Welding materials: to CSA W59.

.5 Welding electrodes: to CSA W48 Series.

.6 Bolts and anchor bolts: to ASTM A307.

**2.2 FABRICATION**

.1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.

.2 Use self-tapping shake-proof flat round oval headed screws on items requiring assembly by screws or as indicated.

.3 Where possible, fit and shop assemble work, ready for erection.

.4 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.

**2.3 FINISHES**

.1 Galvanizing: hot dipped galvanizing with zinc coating 600 $g/m^2$ to CAN/CSA-G164.

.2 Shop coat primer: Refer to Section 09 91 99 – Painting For Minor Works.

.3 Zinc primer: zinc rich, ready mix.

**2.4 ISOLATION COATING**

.1 Isolate aluminum from following components, by means of bituminous paint:

.1 Dissimilar metals except stainless steel, zinc, or white bronze of small area.

.2 Concrete, mortar and masonry.

.3 Wood.

**2.5 SHOP PAINTING**

.1 Apply one shop coat of primer to metal items, with exception of galvanized, stainless steel or concrete encased items.

.2 Use primer unadulterated, as prepared by manufacturer. Paint on dry surfaces, free from rust, scale, grease. Do not paint when temperature is lower than 7 degrees C.

.3 Clean surfaces to be field welded; do not paint.

**2.6 ACCESS LADDERS**

.1 Stringers and steel rungs: shapes and sizes as indicated. Steel rungs welded to stringers as indicated.

.2 Brackets: sizes and shapes as indicated, weld to stringers as noted, complete with fixing anchors.

.3 Padlock hasp components: sizes and shapes as indicated, weld to stringer as noted.

## Part 3 Execution

### 3.1 EXAMINATION

.1 Verification of Conditions: verify conditions of substrates are acceptable for metal fabrications installation in accordance with manufacturer's written instructions.

### 3.2 ERECTION

.1 Do welding work in accordance with CSA W59 unless specified otherwise.

.2 Erect metalwork square, plumb, straight, and true, accurately fitted, with tight joints and intersections.

.3 Provide suitable means of anchorage acceptable to Consultant such as dowels, anchor clips, bar anchors, expansion bolts and shields, and toggles.

.4 Exposed fastening devices to match finish and be compatible with material through which they pass.

.5 Supply components for work by other trades in accordance with shop drawings and schedule.

.6 Weld field connection.

.7 Touch-up field welds, bolts and burnt or scratched surfaces with primer.

.8 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.

### 3.3 ACCESS LADDERS

.1 Install access ladders in locations as indicated.

### 3.4 CLEANING

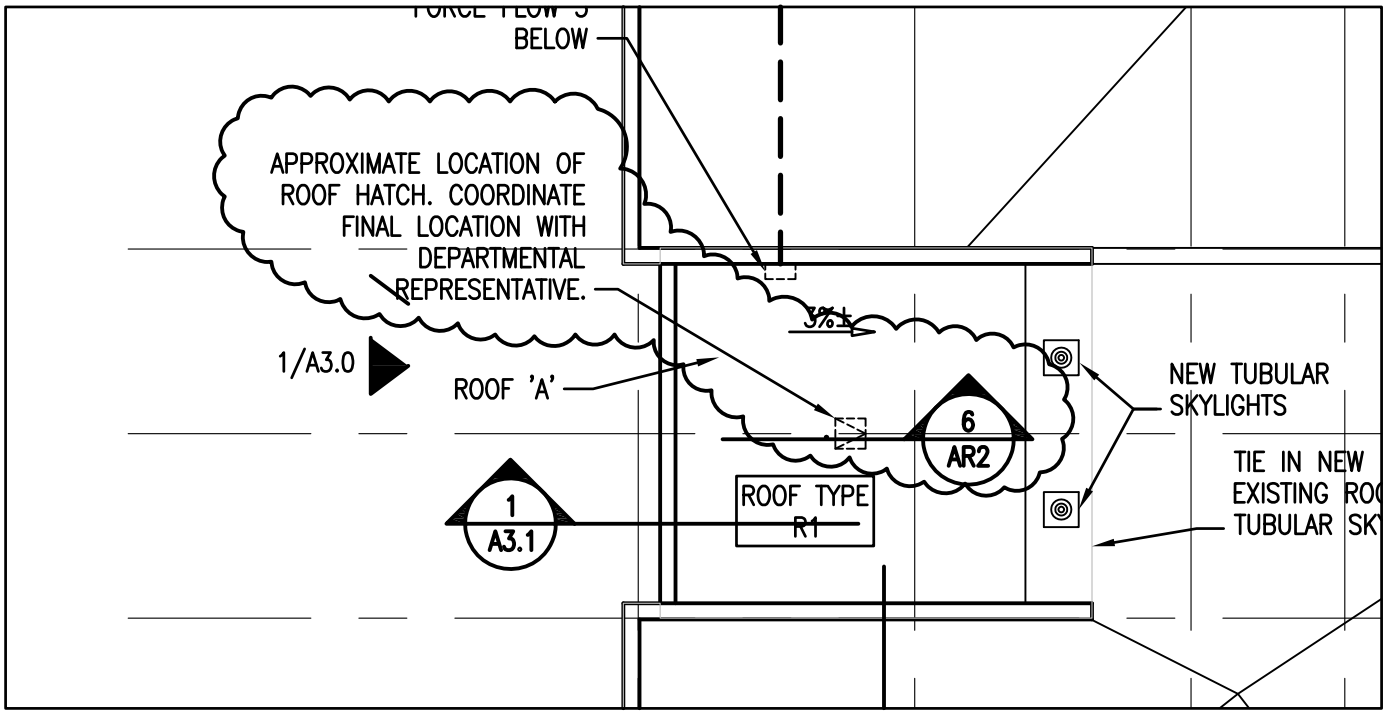
.1 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 00 05 – General requirements.

### 3.5 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by metal fabrications installation.

**END OF SECTION**




1 A2.0 PARTIAL ROOF PLAN

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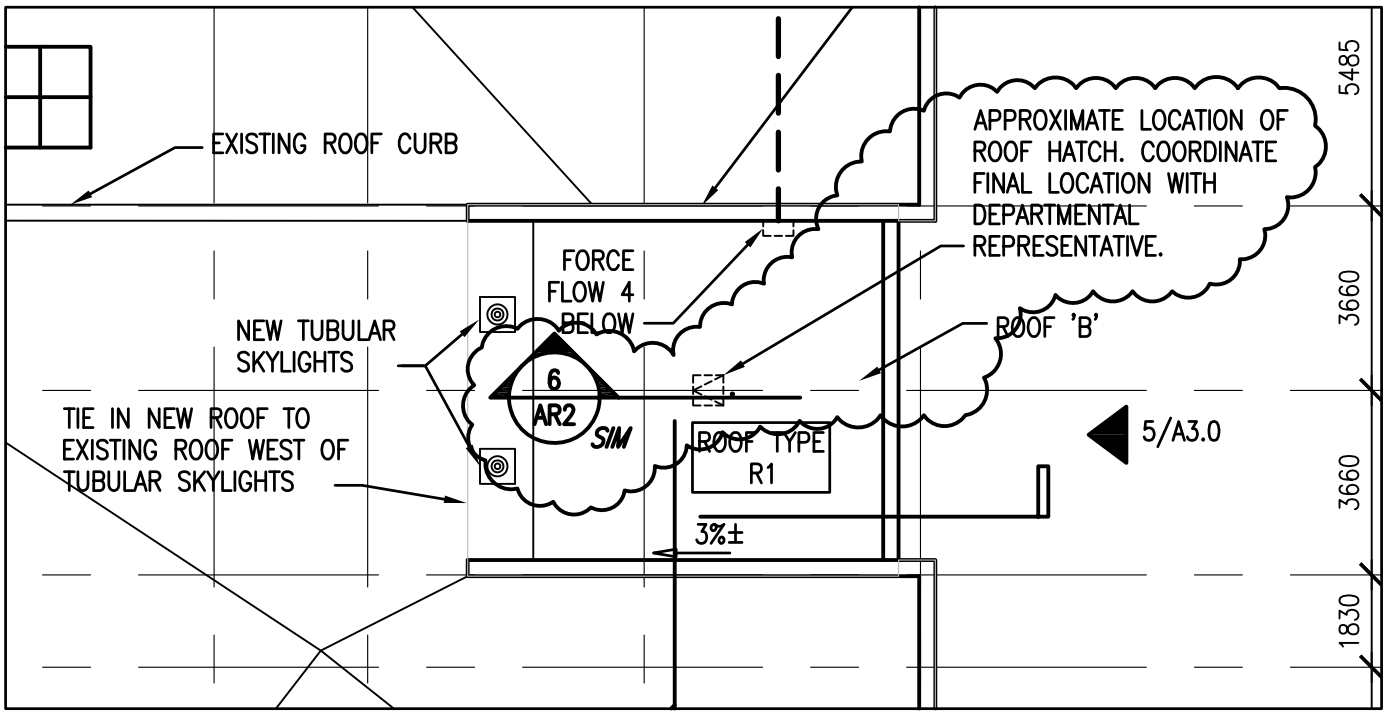


1 A2.0 PARTIAL ROOF PLAN

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PROJECT TITLE
**ROOF AND FOUNDATION REMEDIATION**
**REGINA, SASKATCHEWAN**

DRAWING TITLE
**PARTIAL ROOF PLAN**

DATE **2016.07.11**

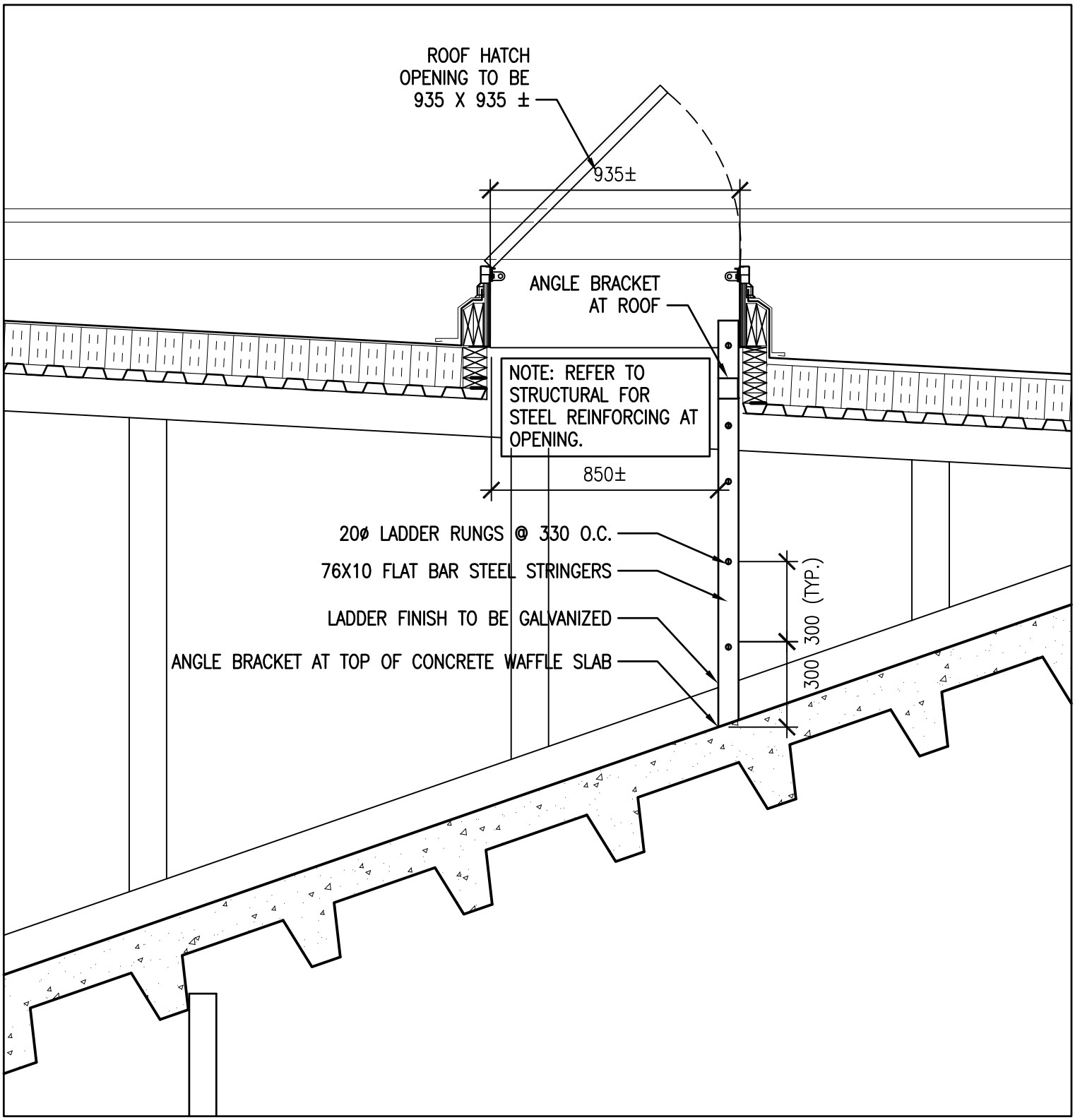
SCALE **AS NOTED**

DRAWN **NO**

CHECKED

PROJECT NO. **20 & 21/2014**

DRAWING NO. **AR1**




# PARTIAL ROOF PLAN

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PROJECT TITLE
**ROOF AND FOUNDATION REMEDIATION**
**REGINA, SASKATCHEWAN**

DRAWING TITLE
**ROOF HATCH SECTION DETAIL**

DATE **2016.07.11**
SCALE **AS NOTED**
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PROJECT NO. **20 & 21/2014**
DRAWING NO. **AR2**