

# Addendum Addenda

No./No  2
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Project Description / Description de projet <b>U-61 Asbestos Containing Fireproofing Removal and Cladding Replacement</b>		
Project No./No de projet <b>5698</b>	Departmental Representative / représentant ministériel <b>Benoit Huot</b>	Date <b>15 Dec 2020</b>
Solicitation No./N° de sollicitation <b>20-58082</b>		
Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.		
Nota: Cet addenda fait partie intégrale des dossiers d'appel; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.		

<b>Item No</b> <b>2.1</b>	<p><b>Description</b></p> <p><b>Question</b></p> <p>Is it possible to know who is the hanger door maintenance contractor for U61. Since those types of doors and system are specialized it would be advantageous to have the same contractor do the after abatement maintenance that the GC must carry.</p>
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**Answer**  
Ram Doors: contact Thomas Guttin [tguttin@ramdoors.ca](mailto:tguttin@ramdoors.ca).

<b>2.2</b>	<p><b>Questions</b></p> <p>2.2.1 Permit is by who?</p> <p>2.2.2 Is this project expected to be Awarded in December and work to start only in the first week of January ( Or later) and the schedule is 17 weeks long?</p> <p>2.2.3 Is item #85 to be new or existing?</p> <p>2.2.4 Is item # 3 "Platform" to remain after completion of work OR to be taken down at end of project .Is it just a rental?</p> <p>2.2.5 Who is to include the cost of snow removal on the roof before and during our work?</p> <p>2.2.6 Will washroom facilities be available for us or does GC have to include in his cost?</p> <p>2.2.7 Site trailer -is it required or NOT?</p> <p>2.2.8 Will we have room on site to store one or two storage containers if we need them?</p> <p>2.2.9 Is parking readily available close to the building?</p> <p>2.2.10 Are the barriers to be use ONLY during the work and then to be removed?( Is it based on a rental condition?)</p> <p>2.2.11 Are we to assume that all items( #'s) listed on A01 are all new items( unless indicated as existing?)</p> <p>2.2.12 Is there a means to access the roof from an inside OR outside access ladder?</p>
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**Answer**

2.2.1 No permits required

2.2.2 Refer to addendum #1 Issued December 9th 2020

2.2.3 Item #85 to be new. Refere to specification 05 52 00

2.2.4 Item #3 to remain. Refer to specification 05 52 00

2.2.5 Refer to addendum #1 Issued December 9th 2020. Contract to begin May 31st

2.2.6 No washroom will be made available.

2.2.7 Not required

2.2.8 Yes

2.2.9 Yes

2.2.10 Barrier to be installed and removed after each abatement phase.

- 2.2.11 All Items related to scaffolding and jersey barrier are temporary. Everything else is new.  
2.2.12 Exterior roof access ladder is available.

2.3

**Question:**

Can we use Aluminum platforms from manufacturers? Section 05 52 00 2.3 specifies galvanized steel.

**Answer:**

Aluminum platforms are specified. Please replace Section 05 52 00 – Modular Roof Guard-Platform Systems with the revised section attached. Approved equivalents can be submitted for fiberglass models.

2.4

**Question:**

Architectural note 85 drawing 5698-A07 Please provide specification for guardrails & attachment to existing structure.

**Answer:**

Please refer to the revised Section 05 52 00 – Modular Roof Guard-Platform Systems.

2.5

**Question:**

Architectural detail 38A12 notes relet cut into existing concrete wall at standing Seam roof. Cross sections 16 & 17 A08 show steel cladding on concrete walls. Please Clarify if cladding to be installed over wall flashing /reglet tie in as not show on detail 38.

**Answer:**

There is no metal cladding to be installed over the concrete walls. Sections 16 & 17 cut lines on Detail 15/A08 have been revised. Sections 16 & 17 show the cladding present on the sides of the central portion of the hanger.

2.6

**Question:**

Architectural note 56 indicates 38x89 wood but detail 20 & 21 A9 has arrow pointing at dashed line. Please Clarify

**Answer:**

The dashed line indicates that there is a stud support assembly at this location. Note 56 is correct and reads: "38 mm x 89 mm WOOD STUDS @ 400 mm C/C."

2.7

**Question:**

Specifications: section 00 10 00 item 1.3.1. Complete all work within 17 weeks after receipt of notification of acceptance of the tender. Section 34 71 13.01 item 1.3.2.4.1. Allow for 8 weeks of review for the airport Authority. This cannot work with the schedule being provided to us. The vehicle concrete barriers are among the 1st items to be required on site yet we will loose 8 weeks of work time as we wait then must complete both phases included all abatement and new work. Can you please clarify?  
Specifications: Can you please clarify the validity period for this project?

**Answer:**

The award will take place in February and the first day of mobilisation is to be May 31, 2021. The Airport Authority will need to review the Shop Drawings for the Concrete Barrier with barbed wire. To allow enough time for the review, please provide the shop drawings to the Airport Authority no later than end of March 2021. Schedule wise, the hanger bay doors cannot be partially obstructed longer these 8 consecutive weeks and the remaining work will have to be done without a permanent scaffold. Refer to Addendum #1 for clarification on start date.

- 2.8 Abatement Clarification:**  
The hanger bay door tracks in the concrete pockets, from Gridline 1 to 3 and Gridline 7 to 9, are also included in the abatement scope of work. Note 15 of the drawings has been revised.
- 2.9 Tarmac Access Clarification:**  
There is a gate in the fence separating the tarmac and the side of the building. Only one of the two sides has a gate that allows passage through for materials. Note 93 and 94 have been added to the drawings and Page A02 has been updated.
- 2.10 Appendix 1:**  
Attached is Appendix 1 containing clarification photos of the abatement portion of the work of the tracks in the concrete pockets.

REVISED SECTION 05 52 00

**Part 1 General**

**1.1 REFERENCE STANDARDS**

- .1 American National Standard / American Society of Safety Engineers (ANSI/ASSE):
  - .1 ANSI/ASSE A1264.1-2007 Safety Requirements for Workplace Walking/Working Surfaces and their Access; Workplace, Floor, Wall and Roof Openings; Stairs and Guardrail Systems.
- .2 ASTM International:
  - .1 A27/A27M-13 Standard Specification for Steel Castings, Carbon, for General Application
  - .2 ASTM A 47-2014, Standard Specification for Ferritic Malleable Iron Castings.
  - .3 ASTM A500-13 Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
  - .4 ASTM B 221M-13, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).
  - .5 ASTM B429//B241M-10e1, Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.
  - .6 ASTM E935-13e1, Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings.
- .3 National Research Council Canada (NRC)
  - .1 National Building Code of Canada 2015 (NBC).

**1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with the following:
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for guardrails and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2 Submit manufacturer's installation instructions with project specific annotations to suit project conditions.
- .3 Shop Drawings:
  - .1 Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.
  - .2 Indicate installation of guardrails including but not limited to plans, elevations, sections, details of components, anchor details and clearances to adjacent assemblies. Indicate critical field dimensions and conflicts.
  - .3 Indicate installation conditions at obstructions or at junction with adjacent construction as necessary to provide continuity of protection.

- .4 Parts List:
  - .1 Submit parts list indicating manufacturer's name, part number and name, quantity required for complete installation.
- .5 Certifications:
  - .1 Submit certification that modular guardrail system has been tested in accordance with ASTM E935, that it conforms to requirements of ANSI/ASSE A1264.1 and to workplace safety requirements of authority having jurisdiction.
- .6 Modular guardrail system shall be the standard product of a manufacturer regularly engaged in the engineering design and manufacture of such products. System shall consist of components that have been in satisfactory use for at least 2 years prior to date of tender issue.

### **1.3 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements:
  - .1 Deliver products to site in original factory packaging, labelled with manufacturer's name and address, and list of contents of each package.
  - .2 Inspect products for any damage or deformation. Remove damaged products from site and replace with matching undamaged products.
  - .3 Check package contents list against submitted parts list to ensure all components necessary for a complete installation have been delivered.
- .3 Storage and Handling Requirements:
  - .1 Store material in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect guardrail components from all damage. Protect finish from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

**Part 2 Products**

**2.1 DESIGN CRITERIA**

- .1 Installed guardrail assembly and anchorage shall conform to ANSI/ASSE A1264.1, structural requirements of NBC 2015 and workplace safety requirements of authority having jurisdiction.
  - .1 In case of conflicting requirements, the more stringent requirement shall apply.

**2.2 DESIGN CRITERIA**

- .1 Installed guardrail assembly and anchorage shall conform to ANSI/ASSE A1264.1, structural requirements of NBCC 2015 and workplace safety requirements of authority having jurisdiction.
  - .1 In case of conflicting requirements, the more stringent requirement shall apply.

**2.3 MODULAR GUARDRAIL SYSTEM**

- .1 Rails: 42 mm diameter aluminum components manufactured from profiled and extruded high-grade structural aluminum with powder coating, or approved equivalent.
- .2 Posts: 42 mm diameter aluminum components manufactured from profiled and extruded high-grade structural aluminum with powder coating, vertical or curved profile as indicated, or approved equivalent.
- .3 Fittings: elbows, T-shapes, wall flanges, couplings, malleable iron castings to A47 with locking stainless-steel set screws, or aluminum components and accessories manufactured from high-grade structural aluminum with powder coating, or approved equivalent.
- .4 Non-Penetrating Anchorage for Rooftop or Freestanding Installation: weighted base mounting plate with non-abrasive non-slip resilient pad, with integral receivers to secure and fasten posts and 19 mm thick rubber protection mat on underside of the component, or approved equivalent.
- .5 Rubber protection pad: HD grade 625 mm x 625 mm x 19 mm thick, masticated recycled rubber with reinforcement and UV-resistant, dimpled surface.
- .6 Exposed Fasteners: flush countersunk screws or bolts; consistent with design of railing. All fasteners shall be 304 or 305 stainless steel.
- .7 Splice Connectors: malleable iron castings to A47 collars with locking stainless-steel set screws.
- .8 Galvanizing: to ASTM A153, provide minimum 600 g/sq m galvanized coating.

- .1 Touch-Up Primer for Galvanized Surfaces: SPCC 20 Type I Inorganic zinc rich.
- .9 Factory Pre-finishing: epoxy powder coated.
  - .1 Colour: as selected by Departmental Representative.

## 2.4 MODULAR PLATFORM SYSTEM

- .1 Refer to drawings for proposed design concept.
- .2 Design loads for two people on platform simultaneously.
- .3 Materials: All aluminum components and accessories manufactured from profiled and extruded high-grade structural aluminum with powder coating, or approved equivalent.
- .4 Stair treads:
  - .1 Width: 1220 mm.
  - .2 Depth: 250 mm.
  - .3 Angle of slope: 45°.
- .5 Step tread:
  - .1 Width: 600 mm (to reflect standard width).
  - .2 Depth: 100 mm.
  - .3 Angle of slope: 65°.
- .6 Platform:
  - .1 Width & height: as shown on drawings.
  - .2 Decking: 13/22 mm expanded aluminum mesh, or approved equivalent.
  - .3 Kick plate: 125 mm extruded channel.
- .7 Guardrail:
  - .1 Height: 1080 mm minimum above platform.
  - .2 Knee rail: 450 mm below guardrail.
  - .3 Post spacing: 2 m maximum.
  - .4 Tube: A-787, 42 mm (1.66"), 11 Gauge aluminum profile, or approved equivalent.
- .8 Fixings: Concrete fixing in existing wall: as per manufacturer's recommendation.
- .9 Tube for rails: galvanized G90 finish to A-787 requirements.
- .10 Fittings, clamp fittings, elbows, crossovers, wall flanges, tees, couplings to Fluorocarbon finish or hot dipped galvanized to A-787 requirements.
- .11 Protection Mats: 13 mm thick minimum rubber.



- .12 Weighted bases:
  - .1 Weighted non-penetrating support structure at base of structure.
  - .2 16 mm (5/8") thick, powder coated, upright receivers.
- .13 Fasteners: 304 stainless steel.
- .14 Nitrile seals: between mounting clamps to aluminum stair.

### **Part 3 Execution**

#### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for handrail 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.

#### **3.2 INSTALLATION**

- .1 Assemble and install modular guardrail system in accordance with manufacturer's instructions, accepted shop drawings and as necessary to provide continuity of protection.
- .2 Install components plumb and level, in proper alignment with adjacent assemblies.
- .3 Ensure guardrails extend beyond posts as required to leave no more than 100 mm gap to adjacent walls.
- .4 At non-penetrating or freestanding guardrail, set posts into weighted base plates and secure.
- .5 Conceal bolts and screws whenever possible.
- .6 Assemble with fittings, spigots, sleeves and set-screws to produce secure, vibration-resistant installation.

#### **3.3 CLEANING**

- .1 Progress Cleaning:
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

**3.4 PROTECTION**

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

**END OF SECTION**

# REVISED DRAWINGS

# NATIONAL RESEARCH COUNCIL CANADA

## Uplands Campus, Ottawa, Ontario, Canada

PREPARED BY: DST CONSULTING ENGINEERS, A DIVISION OF ENGLOBE CORP..  
MANAGEMENT, ENGINEERING SERVICES  
203-2150 THURSTON DRIVE,  
OTTAWA, ONTARIO, CANADA K1G 5T9

PROJECT: PROJECT NO. = 5698  
BUILDING U-61 (UPLANDS CAMPUS)  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**

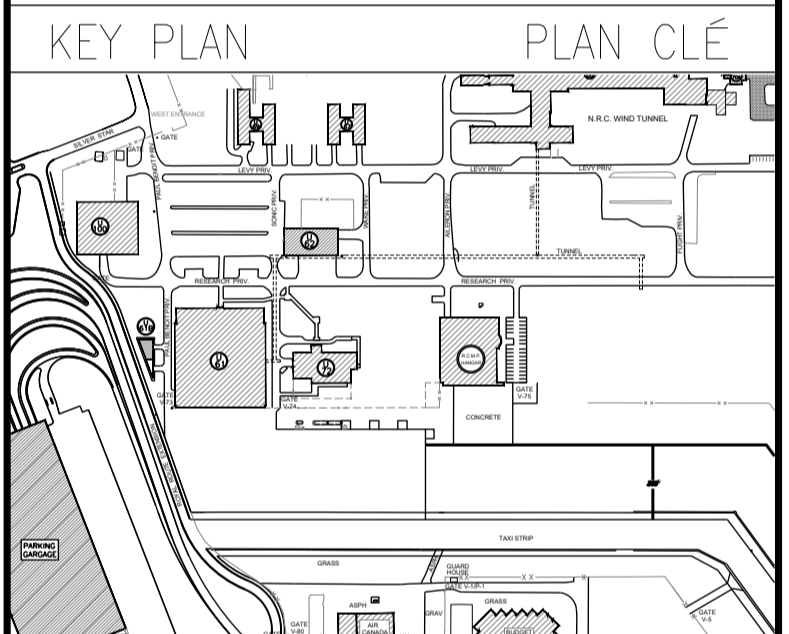
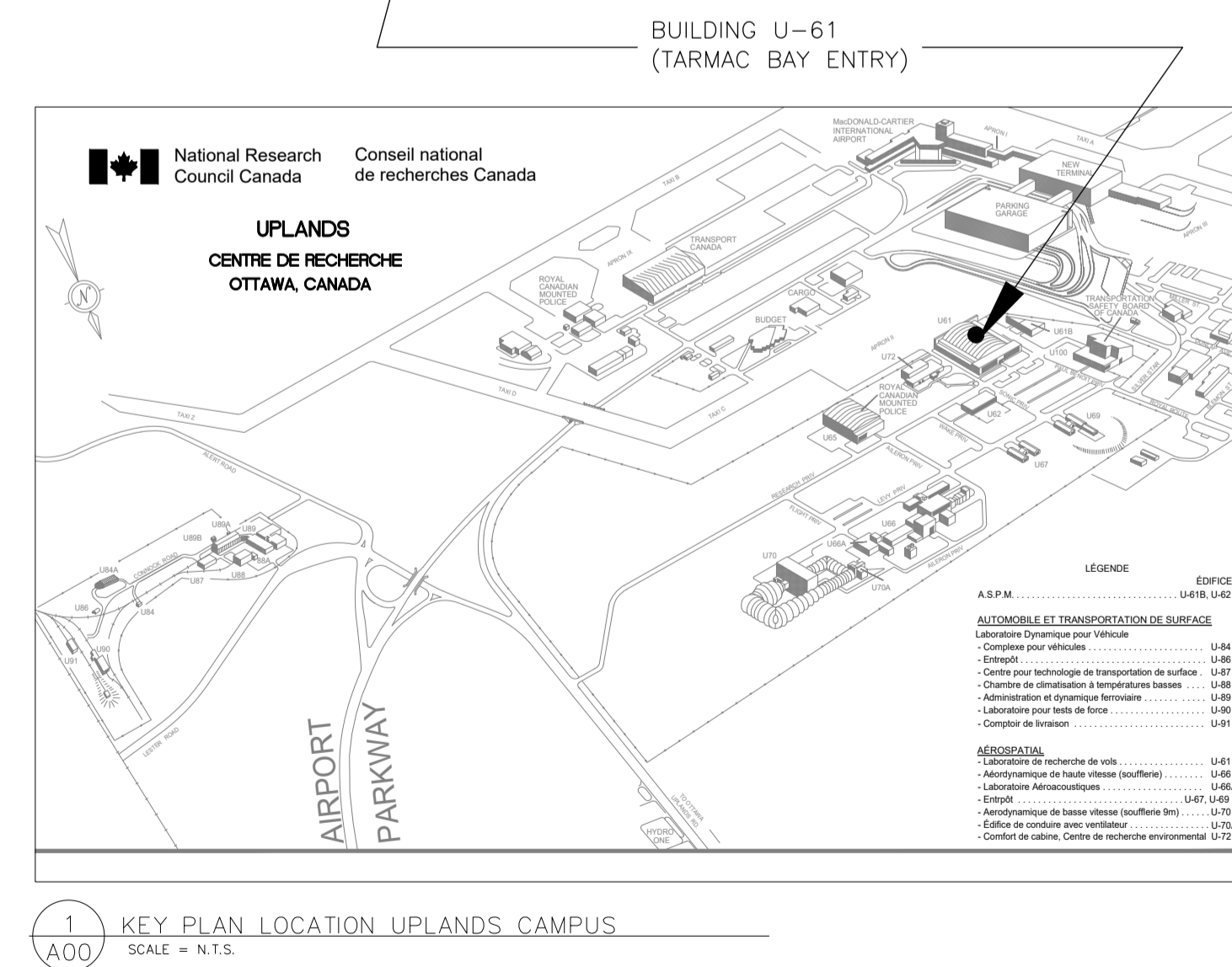
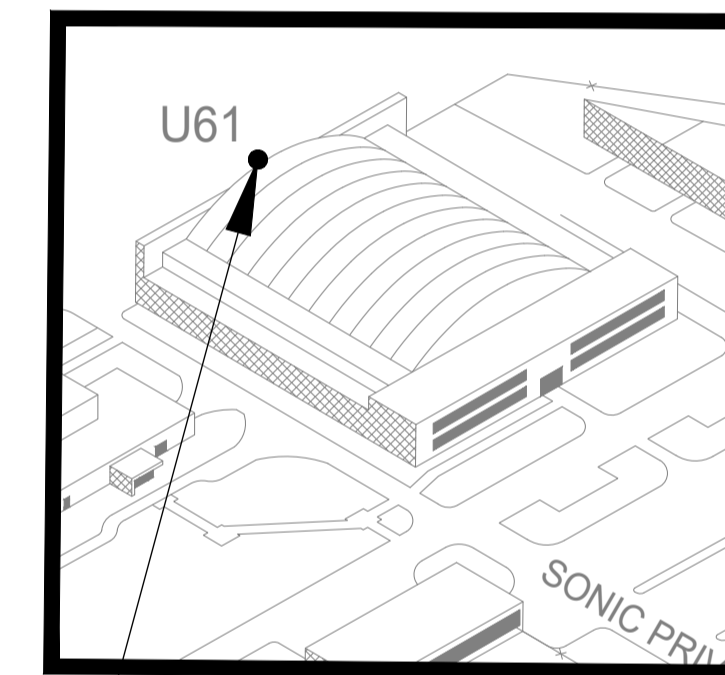
### GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- AS PER THE ORIGINAL AS-BUILT DRAWINGS, ANY WOOD ENCOUNTERED MAY CONTAIN CREOSOTE AND REMOVAL WOULD REQUIRE WASTE MANAGEMENT PROCEDURES.



### DRAWING SHEET LIST:

STRUCTURAL	N/A	
ARCHITECTURAL	5698-A00	TITLE PAGE: - KEY PLAN LOCATION UPLANDS CAMPUS
	5698-A01	TYPICAL ASSEMBLIES AND PROJECT NOTES: - TYPICAL WALL ASSEMBLIES: W1A, W1B, W1C, W2 - TYPICAL ROOF ASSEMBLY R1
	5698-A02	ROOF PLAN: - ROOF PLAN
	5698-A03	SOUTH ELEVATION: - SOUTH ELEVATION - SOUTH ELEVATION PHOTOS
	5698-A04	NORTH ELEVATION OF SOUTH WALL: - NORTH ELEVATION OF SOUTH WALL - NORTH ELEVATION OF SOUTH WALL PHOTOS
	5698-A05	SOUTH ELEVATION DECONTAMINATION WORK: - PARTIAL SOUTH ELEVATION - MECHANICAL EQUIPMENT CONTAMINATION - PARTIAL SOUTH ELEVATION - SPRAY APPLIED FIREPROOFING CONTAMINATION - PARTIAL SOUTH ELEVATION - CONTAMINATED ROOFING AND CLADDING
	5698-A06	NORTH ELEVATION OF SOUTH WALL DECONTAMINATION WORK: - PARTIAL NORTH ELEVATION OF SOUTH WALL - MECHANICAL EQUIPMENT CONTAMINATION - PARTIAL NORTH ELEVATION OF SOUTH WALL - SPRAY APPLIED FIREPROOFING CONTAMINATION - PARTIAL NORTH ELEVATION OF SOUTH WALL - CONTAMINATED ROOFING AND CLADDING
	5698-A07	SCAFFOLDING ELEVATION AND PARTIAL NORTH ELEVATION OF SOUTH WALL: - SCAFFOLDING ELEVATION - NORTH ELEVATION OF SOUTH WALL
	5698-A08	PARTIAL SOUTH ELEVATION, SECTIONS AND PHOTOS: - PARTIAL SOUTH ELEVATION - CROSS SECTION 'A' - CROSS SECTION 'B' - CROSS SECTION 'C' - INTERIOR HANGER PHOTOS
	5698-A09	DETAILS: - REAR PARAPET AT VERTICAL BAY DOORS - PARAPET AT VERTICAL BAY DOORS - PARAPET AT STEEL CLADDING - VERTICAL BAY DOOR HEAD
	5698-A10	DETAILS: - REAR CLADDING TIE-IN AT CONCRETE WALL - WALL HATCH SILL - PARAPET BETWEEN REAR WALL AND STEEL ROOF - REAR WALL TIE-IN AT DOME ROOF - WALL HATCH JAMB
	5698-A11	DETAILS: - STEEL ROOF TO METAL CLADDING - LATERAL ROOF TIE-IN TO METAL CLADDING - METAL ROOF EAVE - NEW CLADDING EXTERIOR CORNER AND BAY DOOR JAMB - NEW CLADDING INTERIOR CORNER - NEW CLADDING EXTERIOR CORNER
	5698-A12	DETAILS: - LOUVRE HEAD - LOUVRE JAMB - LOUVRE SILL - LATERAL ROOF TIE-IN TO CONCRETE - GUARDRAIL
5698-A13	SUSPENDED PLATFORM PLAN AND ELEVATION: - TYPICAL SUSPENDED ACCESS PLATFORM PLAN - TYPICAL SUSPENDED ACCESS PLATFORM ELEVATION	
SPECIFICATIONS:	SEE SEPARATE BINDED MANUAL	



No.	Date	Revision	By:
7			
6	15-12-2020	FOR ADDENDUM 2	G.C.
5	16-10-2020	FOR TENDER	G.C.
4	05-06-2020	100% - AIRPORT AUTHORITY APPROVAL	G.C.
3	29-04-2020	FOR 99% REVIEW	G.C.
2	19-02-2020	FOR 90% REVIEW	G.C.
1	20-11-2019	FOR 66% REVIEW	G.C.

Date Printed DD MM YYYY Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

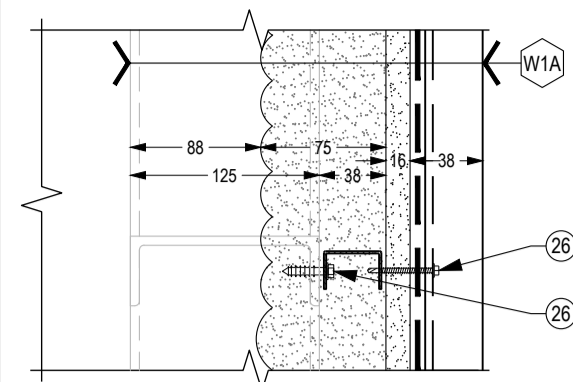
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B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**  
project

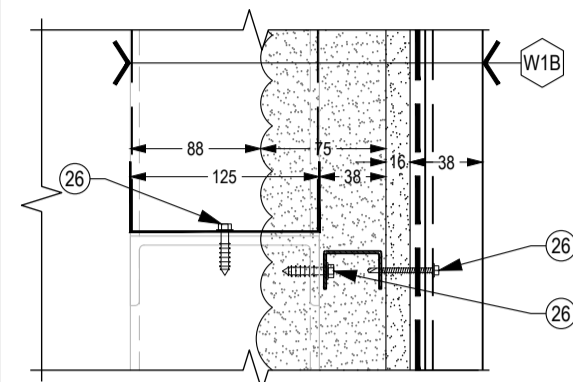
BUILDING U-61, UPLANDS CAMPUS

drawing  
**TITLE PAGE**  
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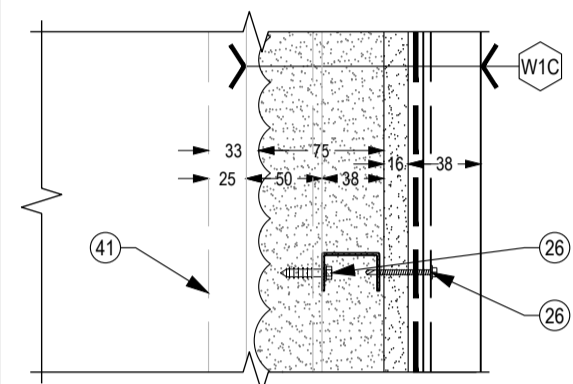
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checked	R.S.	vérifié	sheet	1 of/de 14	feuille
approved	J.L. / J.C.W.	approuvé	W.D.no.	A1-011227-20	D.T.no.
dwg.no.	5698-A00	dessin no.			
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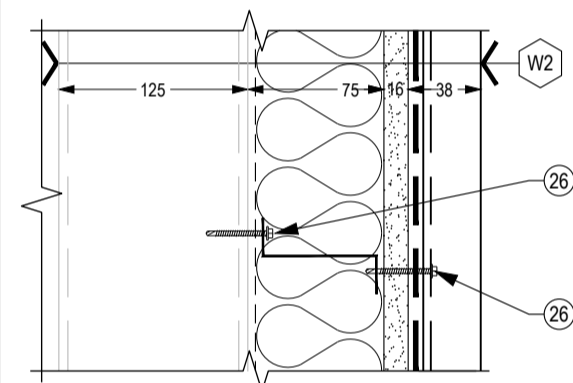
TYPICAL WALL ASSEMBLY W1A  
SECTION VIEW  
W1A  
A01 1:5



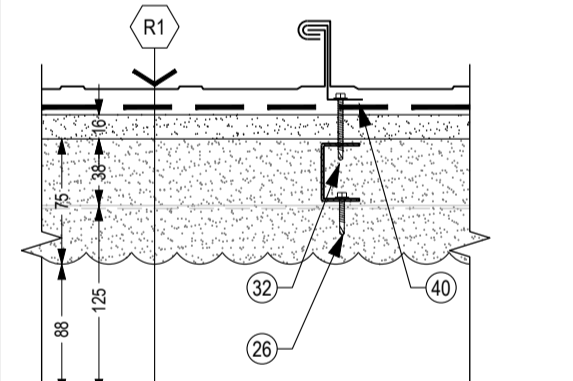
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SECTION VIEW  
W1B  
A01 1:5



TYPICAL WALL ASSEMBLY W1C  
SECTION VIEW  
W1C  
A01 1:5



TYPICAL WALL ASSEMBLY W2  
SECTION VIEW  
W2  
A01 1:5



TYPICAL ROOF ASSEMBLY R1  
SECTION VIEW  
R1  
A01 1:5

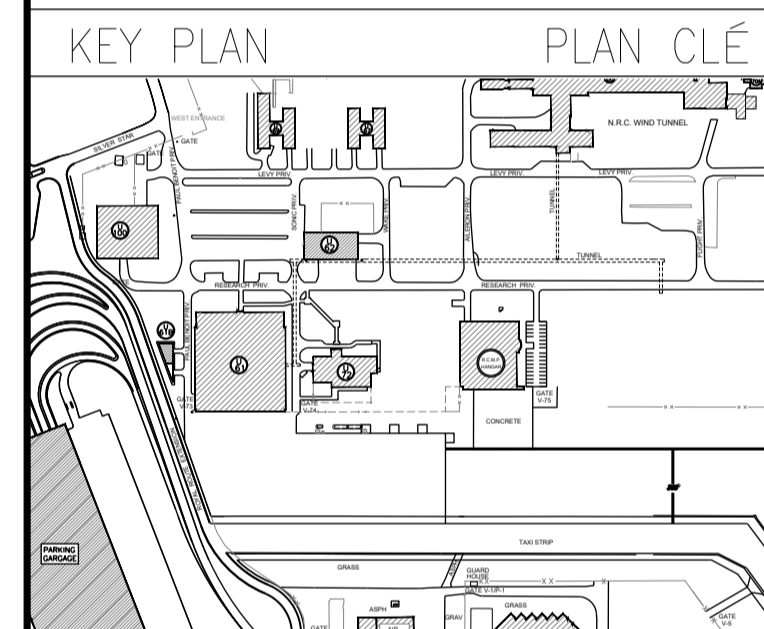
1. RESTRICTED TARMAC AREA. REFER TO GENERAL CONDITIONS SPECIFICATION FOR SPECIFIC INSTRUCTIONS. COORDINATE WITH NRC REPRESENTATIVE AND AIRPORT AUTHORITY.
2. POSSIBLE SETUP AREA. REFER TO SCAFFOLDING SPECIFICATION.
3. NEW ACCESS PLATFORM.
4. NOT IN CONTRACT.
5. REMOVE AND DISPOSE OF CONTAMINATED ROOF SYSTEM INCLUDING RELATED FLASHINGS, SEALANTS, INSULATION AND ACCESSORIES.
6. REMOVE AND DISPOSE OF CONTAMINATED WALL CLADDING SYSTEM INCLUDING RELATED FLASHINGS, SEALANTS, INSULATION AND ACCESSORIES.
7. REMOVE AND DISPOSE OF METAL FLASHINGS, WATERPROOFING MEMBRANES TO EXPOSE CONCRETE BEAM.
8. REMOVE AND REINSTATE LOUVER.
9. REMOVE AND DISPOSE OF CONTAMINATED WALL CLADDING AND RELATED FLASHINGS ON EITHER SIDE OF THE VERTICAL BAY DOOR.
10. EXISTING CONCRETE BAY DOOR POCKET WALL.
11. EXISTING VERTICAL BAY DOOR.
12. EXISTING BAY DOOR.
13. EXISTING DEICING TRACK MECHANISM.
14. EXISTING ROOF SYSTEM.
15. EXTENT OF MECHANICAL TRACKS FOR HANGER BAY DOORS TO BE DECONTAMINATED UNDER ASBESTOS TYPE 3 PRECAUTIONS. INCLUDES TRACKS IN CONCRETE POCKETS BETWEEN GRIDLINES 1 TO 3 AND GRIDLINES 7 TO 9.
16. EXTENT OF INTERIOR ASBESTOS-CONTAINING SPRAY-APPLIED FIREPROOFING TO ABATE.
17. EXTENT OF ASBESTOS-CONTAINING CEMENT CLADDING AND ROOF PANELS TO ABATE.
18. ABATE CONCRETE SURFACE FOR REGLET SAW CUT TO ALLOW ROOF TIE-IN TERMINATION.
19. SUPPLY AND INSTALL TYPICAL WALL ASSEMBLY (W1A):
  - 38 mm METAL CLADDING
  - AIR-VAPOUR BARRIER
  - 16 mm SHEATHING
  - 38 mm METAL CHANNEL SPACED @ EXISTING HORIZONTAL STRUCTURAL C-CHANNELS
  - 75 mm SPRAY FOAM INSULATION
  - EXISTING 125 mm STEEL CHANNEL STRUCTURE
20. SUPPLY AND INSTALL TYPICAL WALL ASSEMBLY (W1B):
  - 38 mm METAL CLADDING
  - AIR-VAPOUR BARRIER
  - 16 mm SHEATHING
  - 38 mm METAL CHANNEL SPACED @ 1220 mm C/C MAX.
  - 125 mm VERTICAL METAL STUD @ 610 mm C/C WITH TOP AND BOTTOM TRACK.
  - 75 mm SPRAY FOAM INSULATION
  - EXISTING 125 mm STEEL CHANNEL STRUCTURE
21. SUPPLY AND INSTALL TYPICAL WALL ASSEMBLY (W1C):
  - 38 mm METAL CLADDING
  - AIR-VAPOUR BARRIER
  - 16 mm SHEATHING
  - 38 mm METAL CHANNEL SPACED @ 1220 mm C/C MAX.
  - 75 mm SPRAY FOAM INSULATION
  - EXISTING 50 mm STEEL ANGLE STRUCTURE
22. SUPPLY AND INSTALL TYPICAL WALL ASSEMBLY (W2):
  - 38 mm METAL CLADDING
  - AIR-VAPOUR BARRIER
  - 16 mm SHEATHING
  - 75 mm METAL Z-GIRTS SPACED @ 1220 mm C/C MAX.
  - 75 mm MINERAL WOOL INSULATION
  - VAPOUR BARRIER
  - EXISTING 125 mm STEEL CHANNEL STRUCTURE
23. SUPPLY AND INSTALL TYPICAL ROOF ASSEMBLY (R1):
  - STANDING SEAM METAL ROOF PANEL
  - AIR-VAPOUR BARRIER
  - 16 mm SHEATHING
  - 38 mm C-CHANNELS
  - 75 mm SPRAY FOAM INSULATION
  - EXISTING 125 mm STEEL CHANNEL STRUCTURE
24. SUPPLY AND INSTALL NEW PARAPET AND ROOF TIE-IN.
25. SUPPLY AND INSTALL PREFABRICATED INSULATED WALL HATCH WITH WEATHERSTRIPPING.
26. FASTENER TYPE 1.
27. FASTENER TYPE 2.
28. FASTENER TYPE 3.
29. FASTENER TYPE 4.
30. FASTENER TYPE 5.
31. FASTENER TYPE 6.
32. FASTENER TYPE 7.
33. FASTENER TYPE 8.
34. FASTENER TYPE 9.
35. FASTENER TYPE 10.
36. 38 mm METAL CLADDING
37. STANDING SEAM METAL ROOF PANEL
38. 38 mm STEEL C-CHANNEL
39. 75 mm SPRAY FOAM INSULATION.
40. ROOF CLIP.
41. CLEARANCE FOR BAY DOOR.
42. PREFINISHED METAL FLASHING.
43. 38 mm STEEL Z-GIRT.
44. 25 mm BAND OF SEALANT FOR ROOF PANEL INSTALLATION.
45. CONTINUOUS METAL STARTER STRIP.

46. METAL CLEAT.
47. SEALANT TYPE 'A'.
48. SEALANT TYPE 'B'.
49. EXISTING 2-PLY MOD. BIT. ROOFING MEMBRANE.
50. EXISTING CONCRETE BEAM.
51. EXISTING CONCRETE DECK.
52. EXISTING ROOF SYSTEM.
53. BASE SHEET MEMBRANE FLASHING.
54. CAP SHEET MEMBRANE FLASHING.
55. 38 mm x 89 mm WOOD BLOCKING.
56. 38 mm x 89 mm WOOD STUDS @ 400 mm C/C.
57. 89 mm MINERAL WOOL INSULATION.
58. 19 mm PLYWOOD.
59. SELF ADHERED MEMBRANE.
60. SHIM TO SUIT.
61. 38 mm MINERAL WOOL INSULATION.
62. 75 mm STEEL C-CHANNEL.
63. 75 mm STEEL Z-GIRT.
64. 16 mm SHEATHING.
65. EXISTING STRUCTURE.
66. FASTEN MEMBRANE AND METAL FLASHING IN NEW SAW CUT REGLET.
67. PREFABRICATED METAL CORNER.
68. EXISTING DUCTWORK.
69. PREFINISHED METAL J-TRIM.
70. EXISTING WOOD STRAPPING.
71. 6 mm OVERLAY BOARD.
72. SEAL 6 MIL. VAPOUR BARRIER TO SBS VAPOUR BARRIER WITH LIQUID MEMBRANE.
73. APPROXIMATE LOCATION OF HVAC UNIT, NOT TO SCALE.
74. ENSURE LOCATION OF WALL HATCH IS CENTERED BETWEEN EXISTING VERTICAL AND HORIZONTAL STRUCTURAL STEEL MEMBERS OF WALL.
75. WEIGHTED BASE WITH PROTECTION MAT.
76. GUARDRAIL.
77. PLATFORM.
78. STAIR TREAD.
79. OPEN AREA FOR WALL HATCH ACCESS.
80. 18 mm RUBBER MAT.
81. 600 mm x 600 mm x 16 mm STEEL BASE PLATE.
82. 41 mm HSS, 3 mm THICK.
83. INTERMEDIATE RAIL.
84. TOP RAIL.
85. BALLASTED GUARDRAIL.
86. ENSURE MEMBRANE IS FULLY ADHERED TO EXISTING SURFACE.
87. LOCKABLE DOOR HATCH HANDLE.
88. STEEL GRATE.
89. 100 mm KICK PLATE.
90. SCAFFOLDING LOCATION.
91. SCAFFOLDING LOCATION - PHASE 1.
92. SCAFFOLDING LOCATION - PHASE 2.
93. ACCESS POSSIBLE FROM GATE IN FENCE.
94. NO ACCESS THROUGH THE FENCE, NO GATE IN FENCE.



GENERAL NOTES

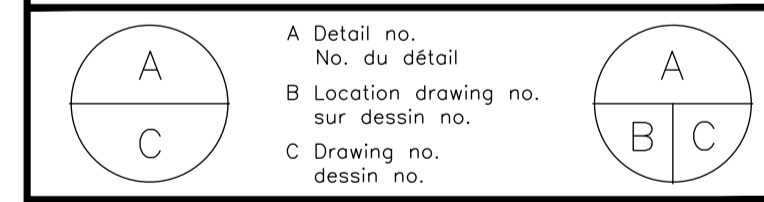
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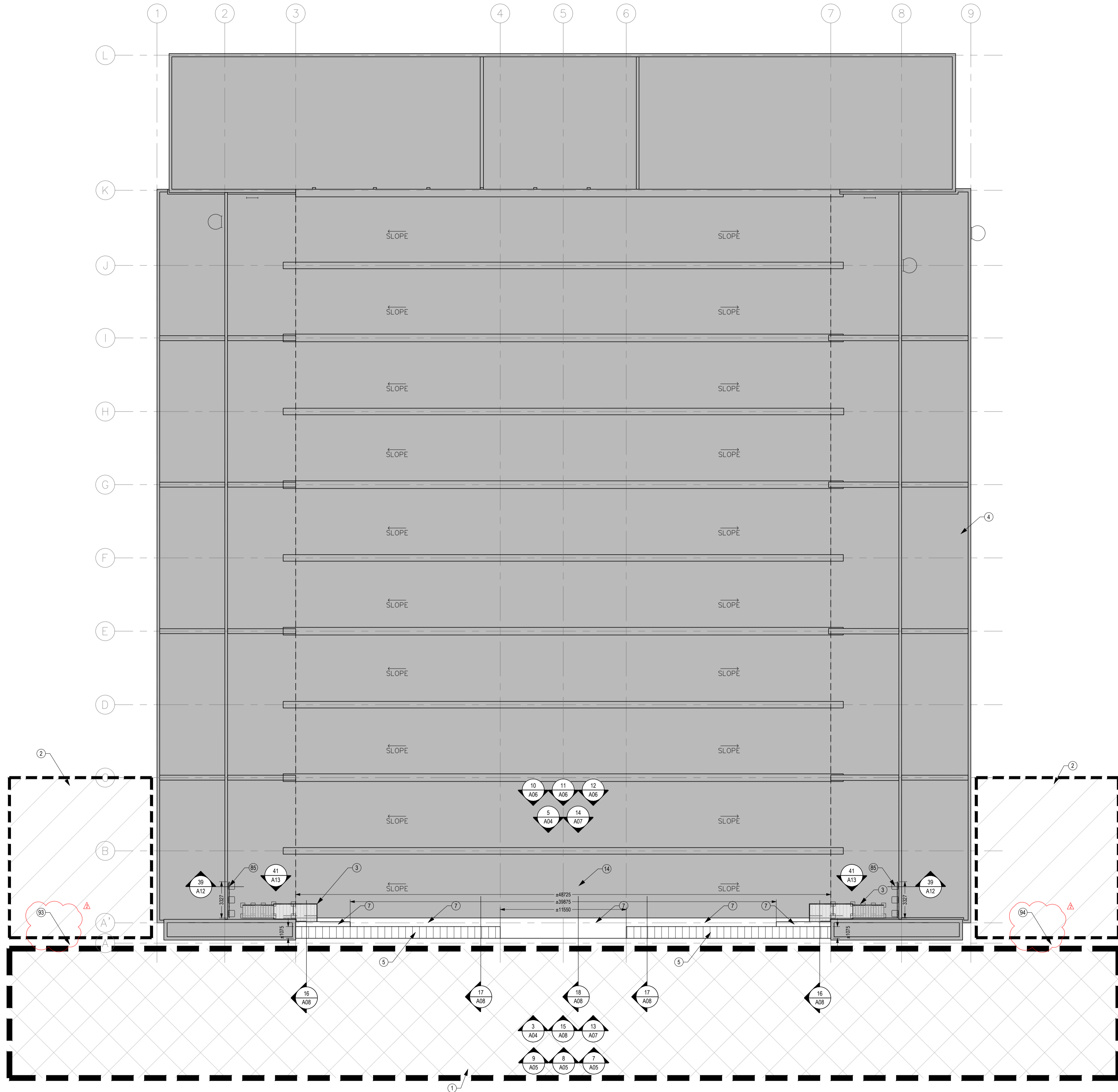
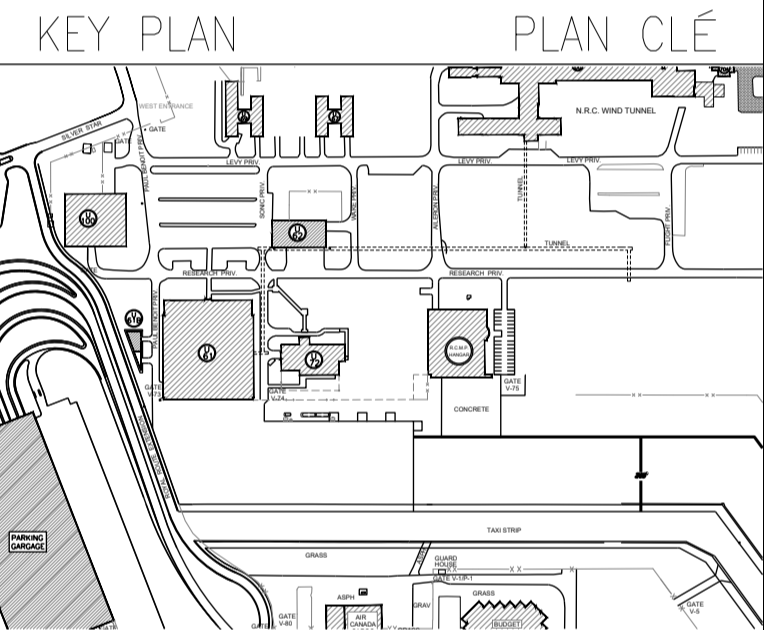


project projet  
U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT  
BUILDING U-61, UPLANDS CAMPUS  
drawing dessin  
TYPICAL ASSEMBLIES AND PROJECT NOTES

designed G.C.	conçu	date 04-02-2020	date
drawn G.C.	dessiné	scale SHOWN / INDIQUÉE	échelle
checked R.S.	vérifié	sheet 2 of/de 14	feuille
approved J.L. / J.C.W.	approuvé	W.D.no. A1-011227-20	D.T.no.
dwg.no. 5698-A01			dessin no.
ACAD file:			fichier CDAO:

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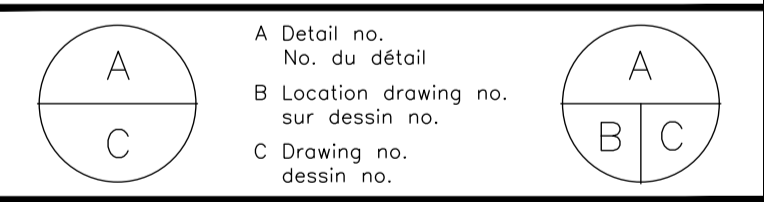


2 ROOF PLAN  
 A02 1:200

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7			
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 BUILDING U-61, UPLANDS CAMPUS

drawing ROOF PLAN

designed / conçu	date	drawn / dessiné	scale / échelle
G.C.	19-02-2020	G.C.	SHOWN / INDIQUÉE
checked / vérifié	sheet / feuille	of / de	of / de
R.S.	3	14	
approved / approuvé	W.D. no. / D.T. no.		
J.L. / J.C.W.	A1-011227-20		

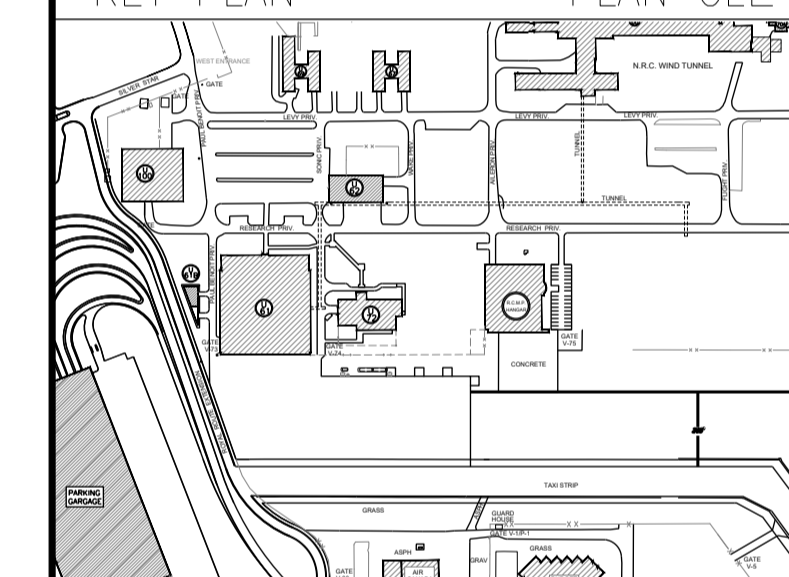
dwg. no. 5698-A02  
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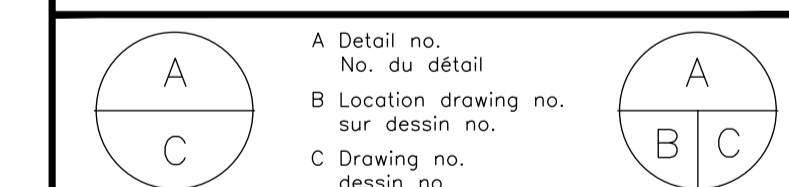
KEY PLAN / PLAN CLÉ



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project: U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT

drawing: SOUTH ELEVATION

designed: G.C. / conçu: G.C. / date: 19-02-2020 / date: 19-02-2020

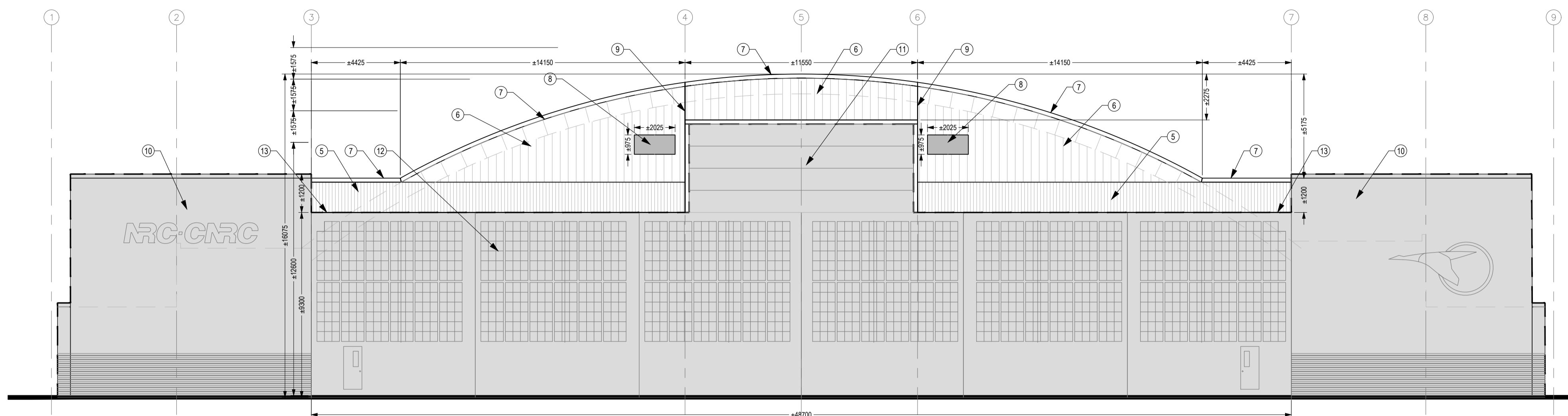
drawn: G.C. / dessiné: G.C. / scale: SHOWN / INDIQUÉE / échelle: SHOWN / INDIQUÉE

checked: R.S. / vérifié: R.S. / sheet: 4 of/de 14 / feuille: 4 of/de 14

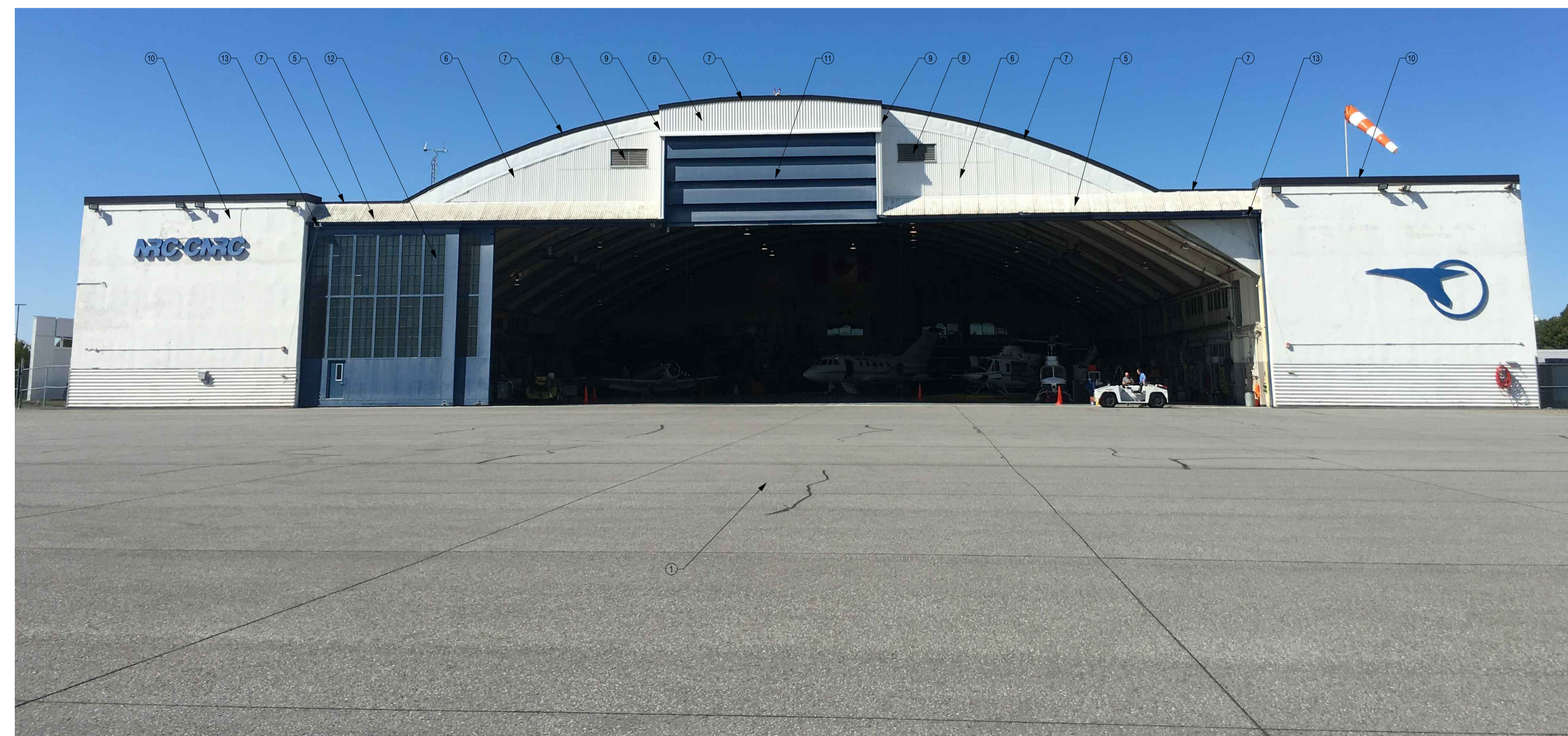
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dwg.no.: 5698-A03 / dessin.no.: 5698-A03

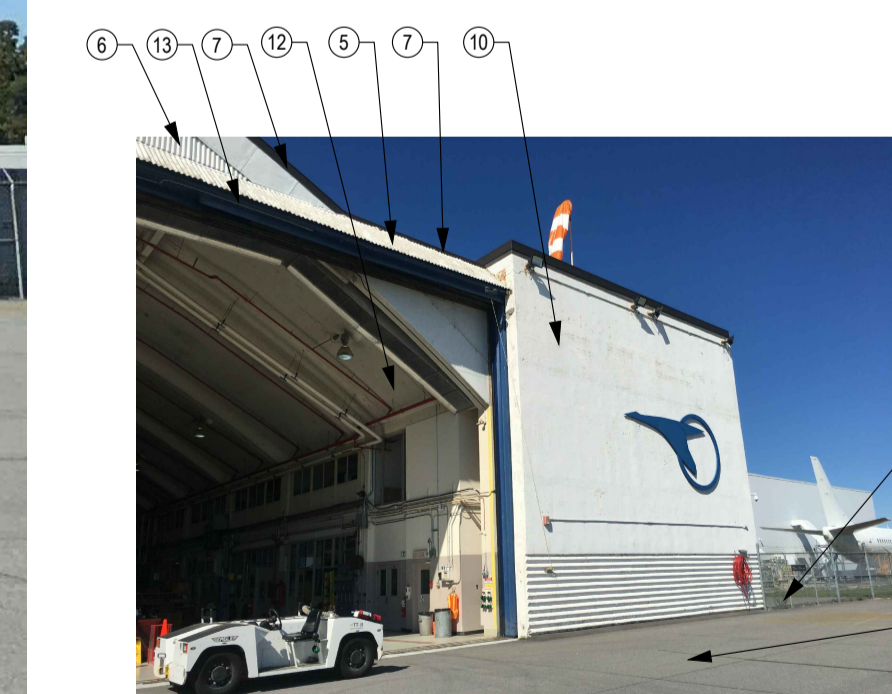
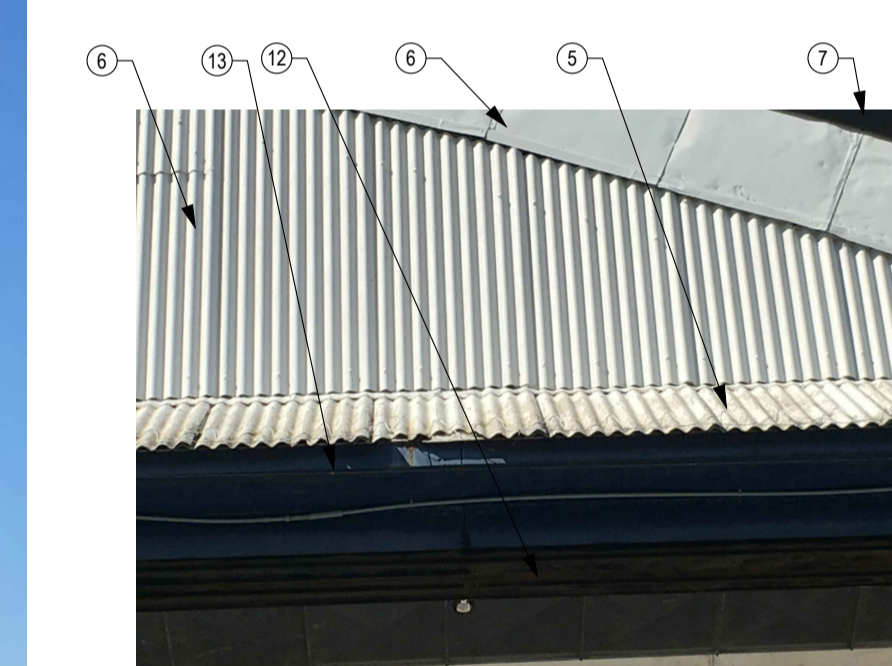
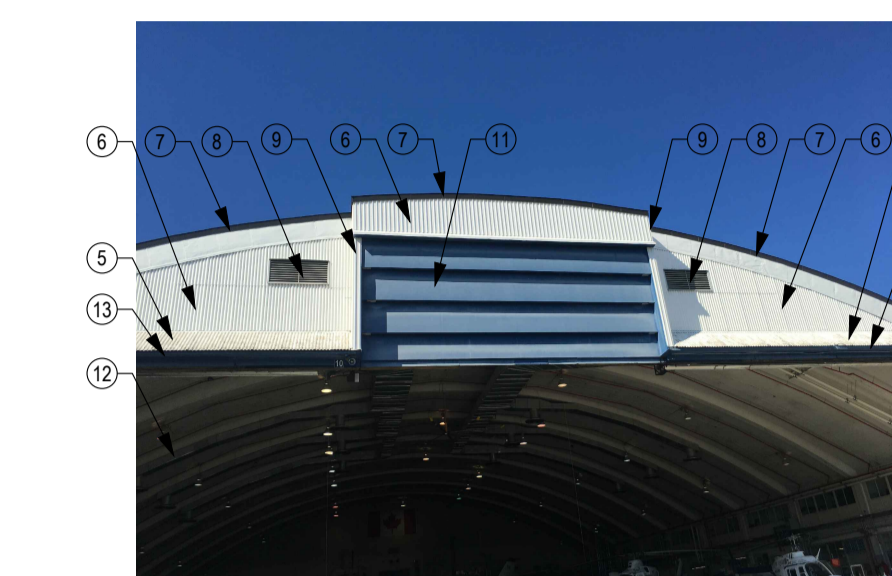
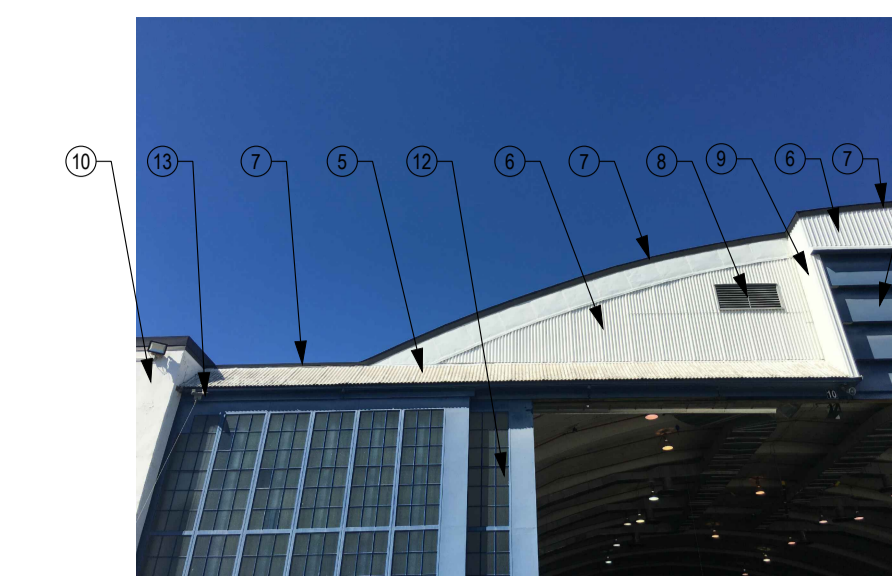
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3 SOUTH ELEVATION  
A04 1:150 DEMOLITION

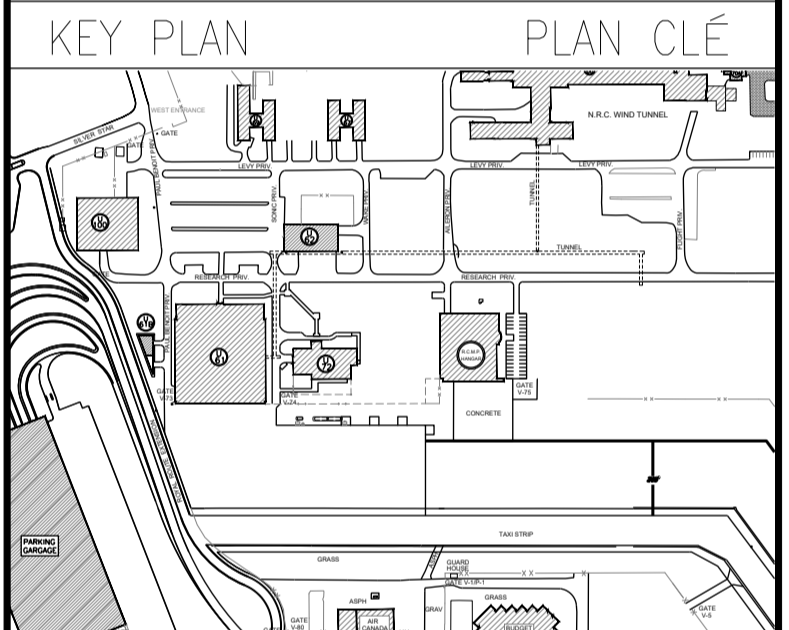


4 SOUTH ELEVATION PHOTOS  
A03 NTS



GENERAL NOTES

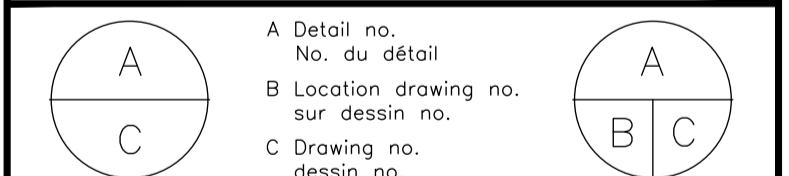
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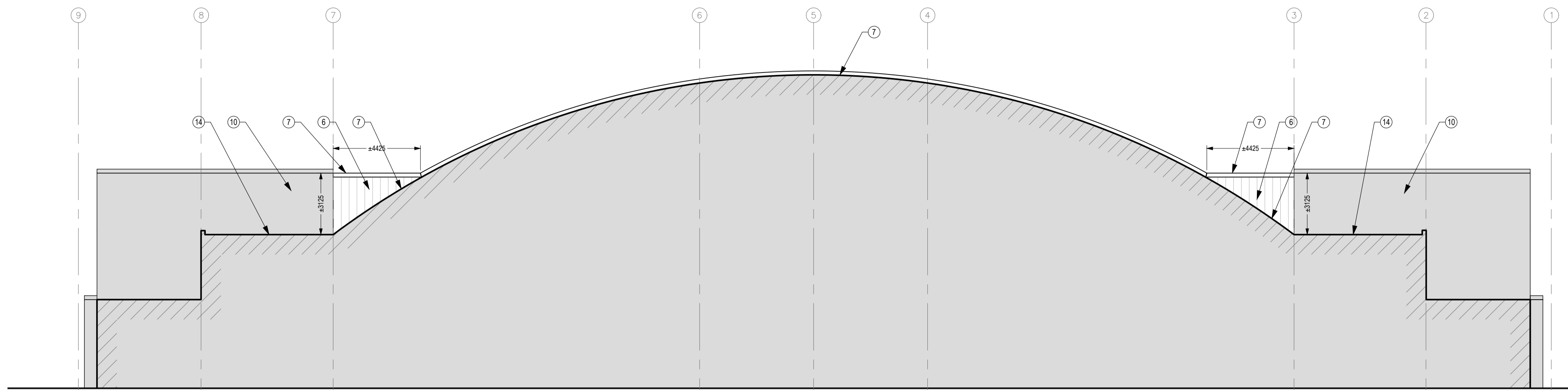
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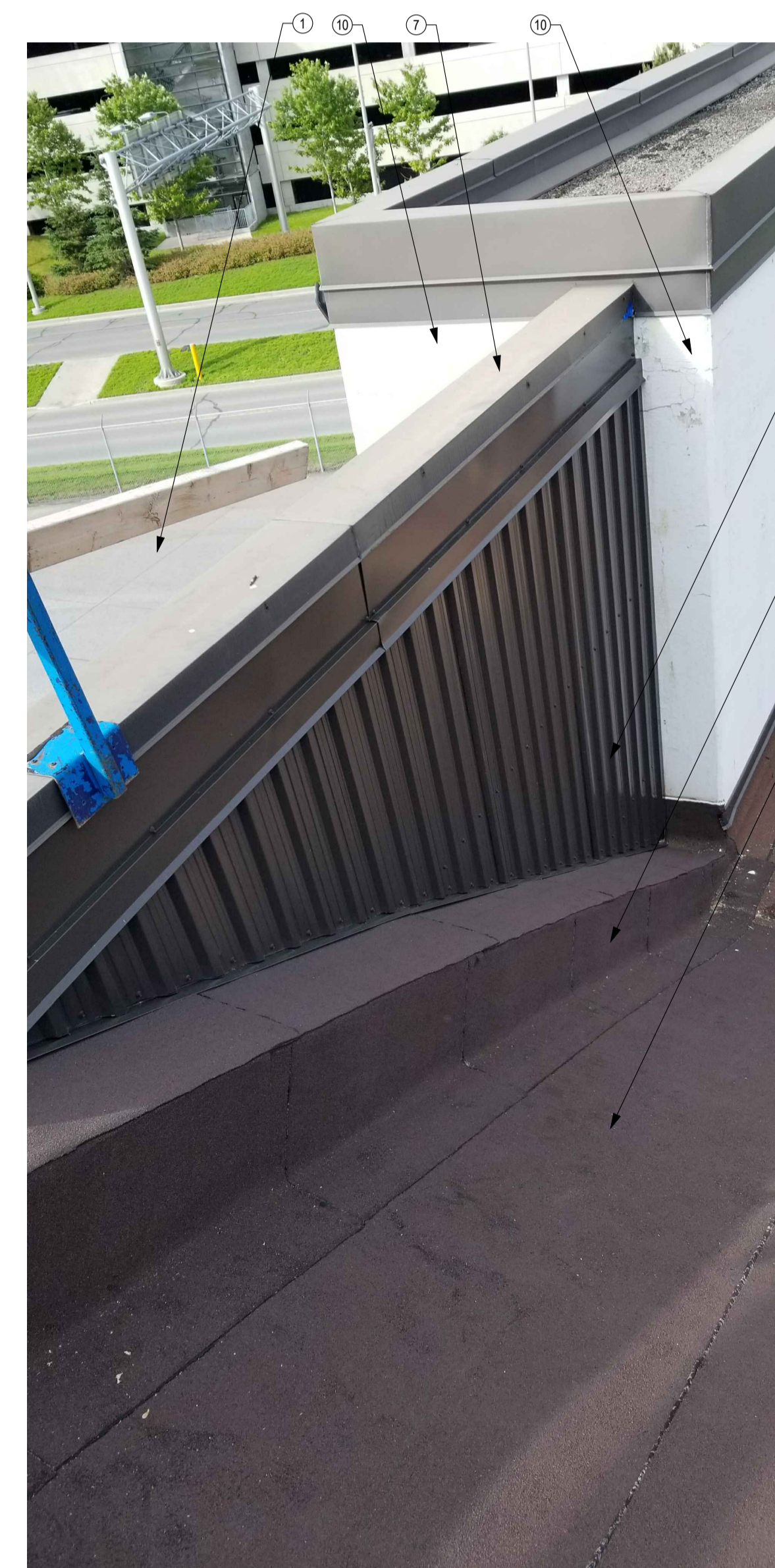
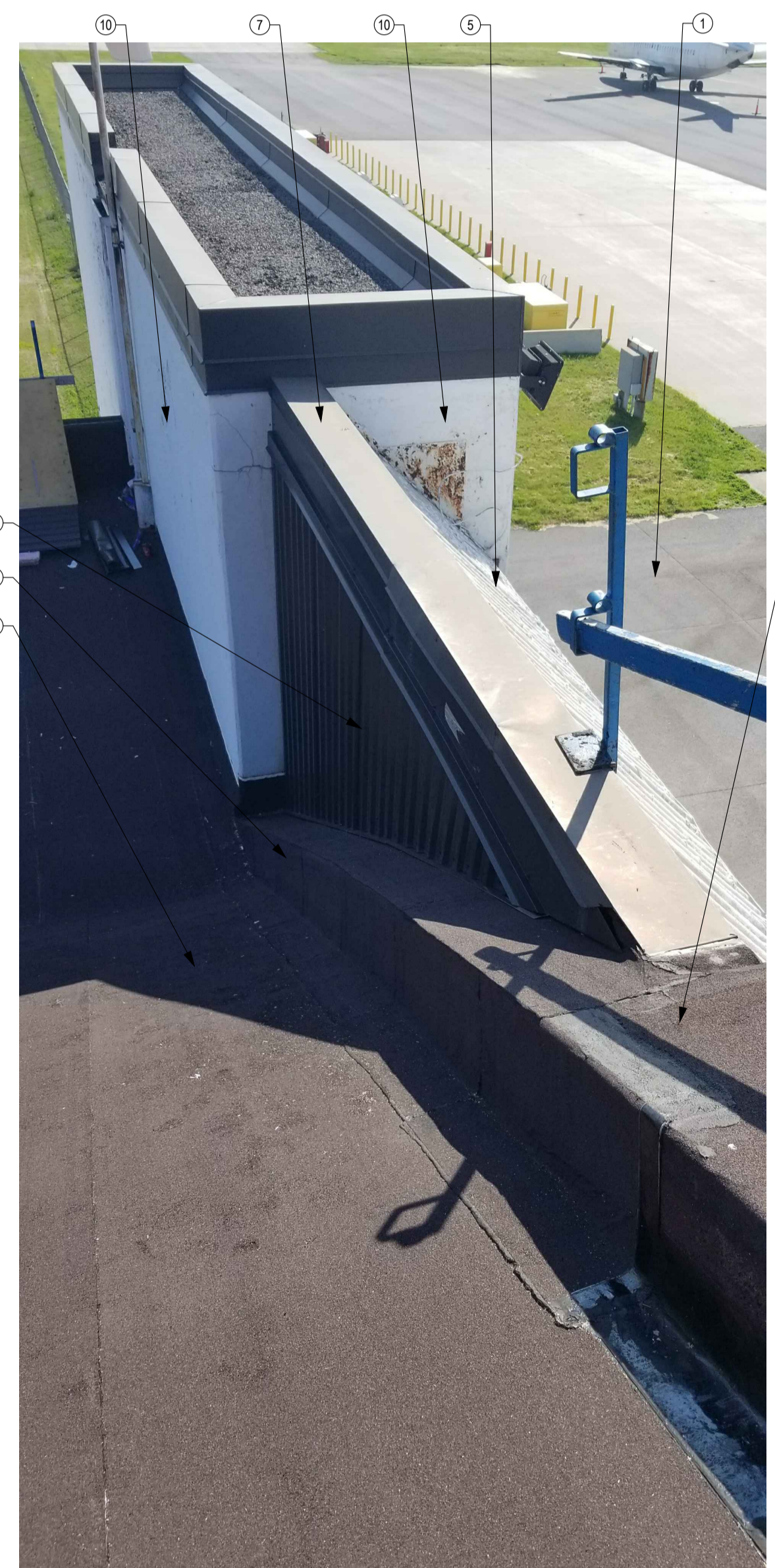
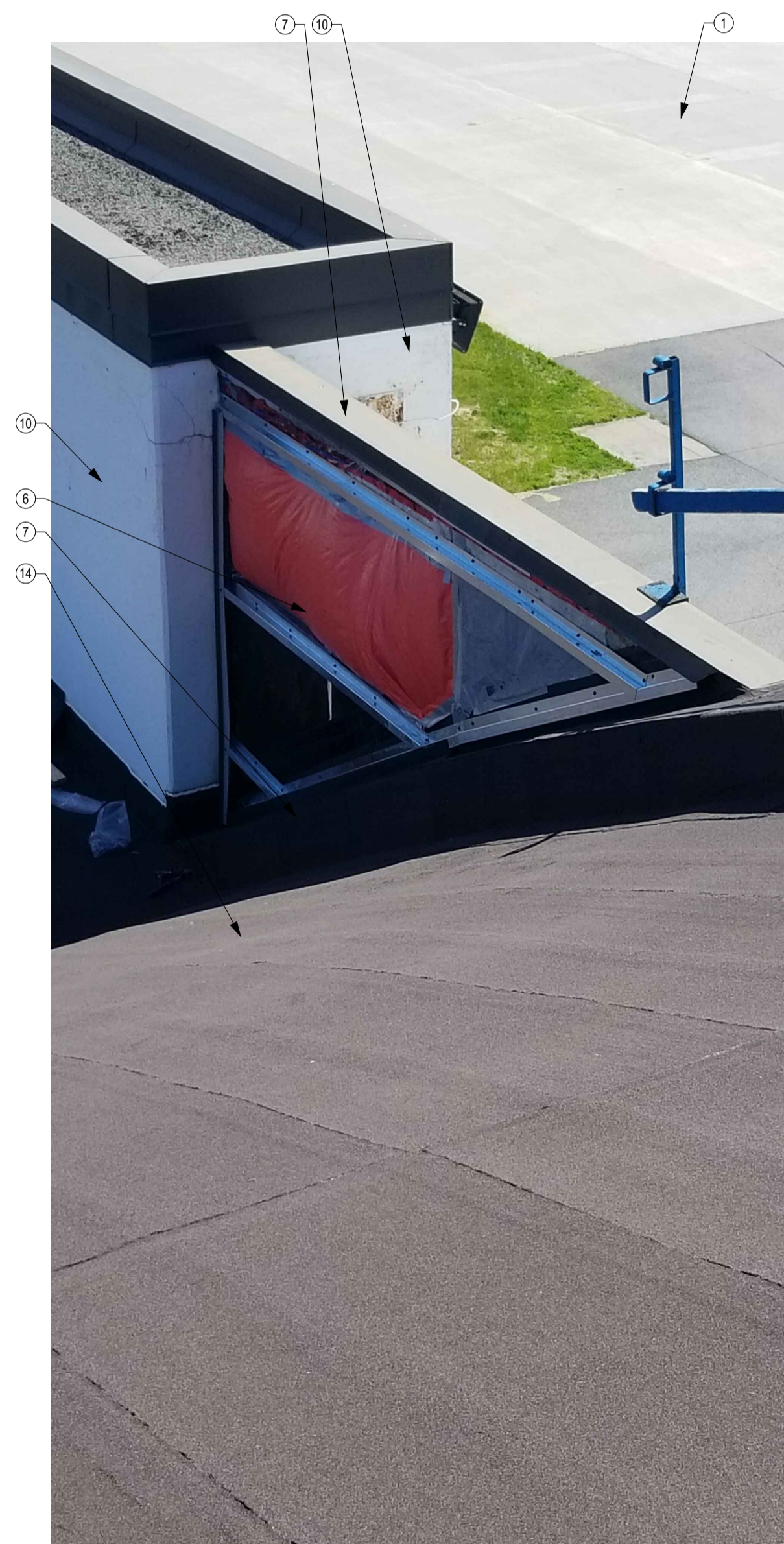


project U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT  
 BUILDING U-61, UPLANDS CAMPUS  
 drawing NORTH ELEVATION OF SOUTH WALL

designed G.C.	conçu G.C.	date 19-02-2020	date
drawn G.C.	dessiné G.C.	scale SHOWN / INDIQUÉE	échelle
checked R.S.	vérifié R.S.	sheet 5 of/de 14	feuille
approved J.L. / J.C.W.	approuvé J.L. / J.C.W.	W.D.no. A1-011227-20	D.T.no.
dwg.no. 5698-A04			dessin no.
ACAD file:			fichier CDAO:



5 NORTH ELEVATION OF SOUTH WALL  
 A04 1:150 DEMOLITION



6 NORTH ELEVATION OF SOUTH WALL PHOTOS  
 A04 NTS

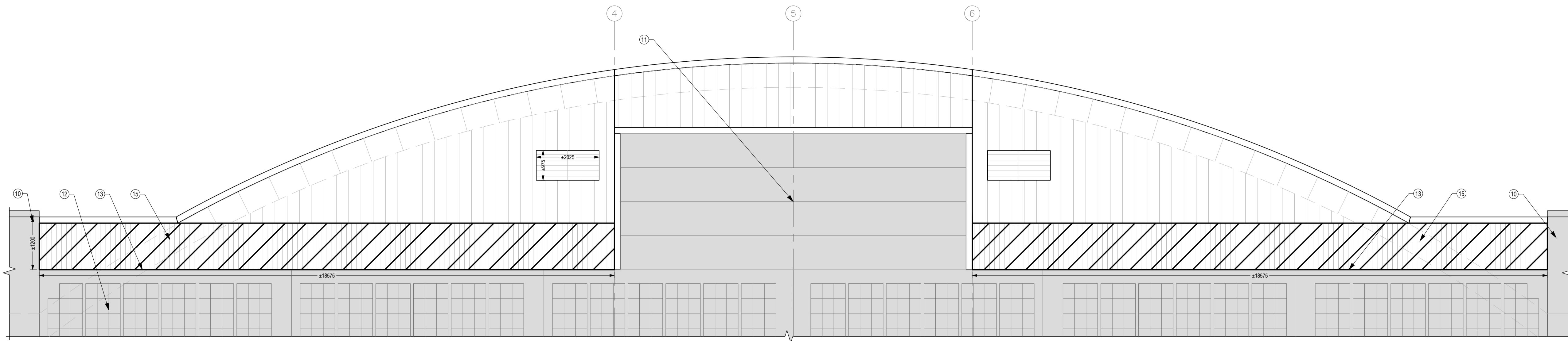
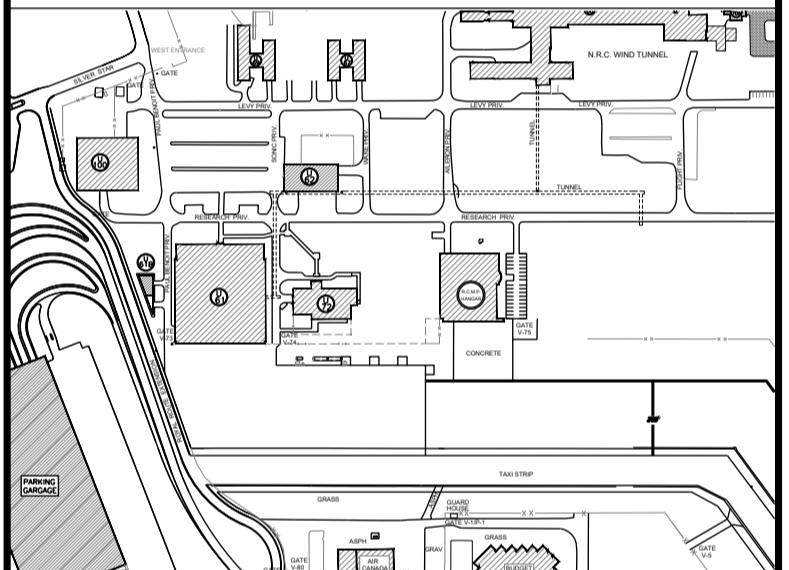


GENERAL NOTES

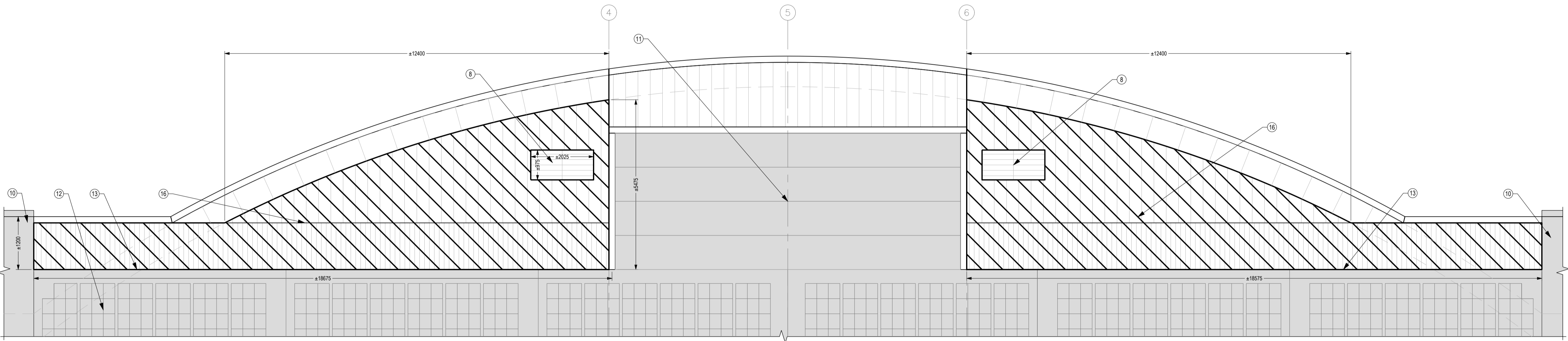
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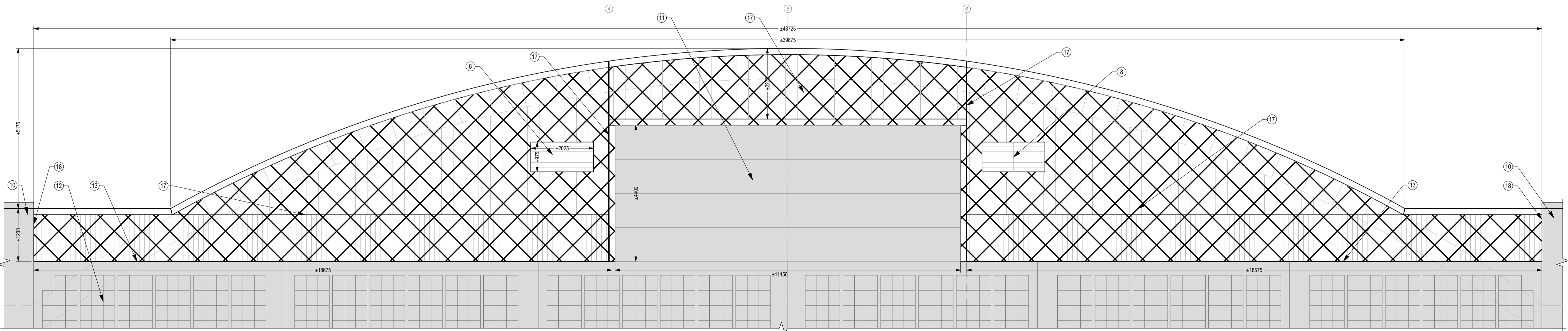
KEY PLAN PLAN CLÉ



7 PARTIAL SOUTH ELEVATION - MECHANICAL EQUIPMENT CONTAMINATION  
 A05 1:75



8 PARTIAL SOUTH ELEVATION - SPRAY APPLIED FIREPROOFING CONTAMINATION  
 A05 1:75



9 PARTIAL SOUTH ELEVATION - CONTAMINATED ROOFING AND CLADDING  
 A05 1:75

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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT  
 projet

BUILDING U-61, UPLANDS CAMPUS

drawing SOUTH ELEVATION DECONTAMINATION WORK  
 dessin

designed G.C. conçu date 19-02-2020 date

drawn G.C. dessiné scale SHOWN / INDIQUÉE échelle

checked R.S. vérifié sheet 6 of/de 14 feuille

approved J.L. / J.C.W. approuvé W.D.no. A1-011227-20 D.T.no.

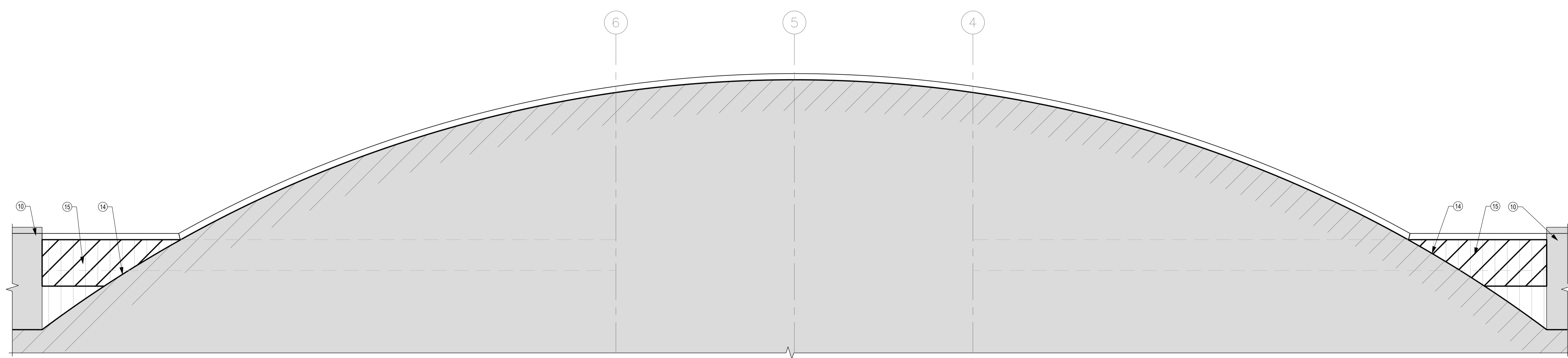
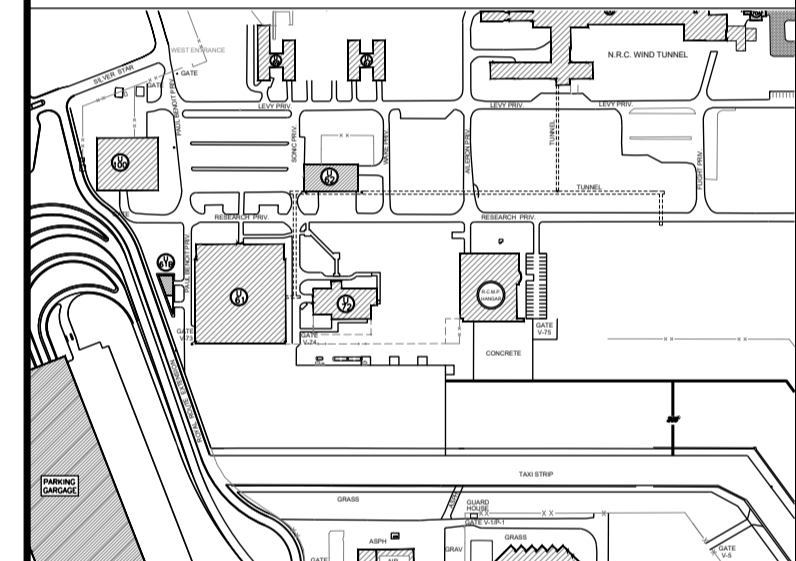
dwg.no. 5698-A05 dessin no.  
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GENERAL NOTES

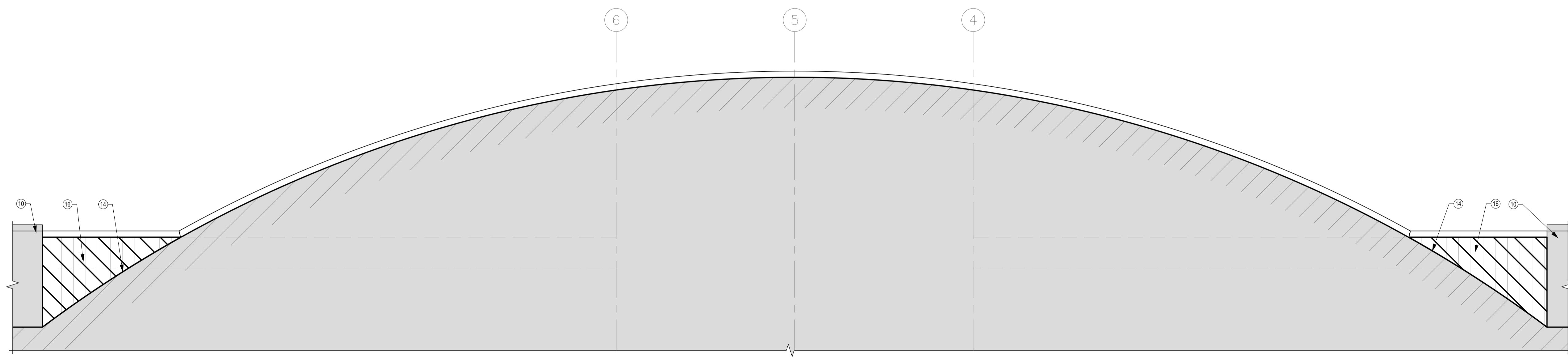
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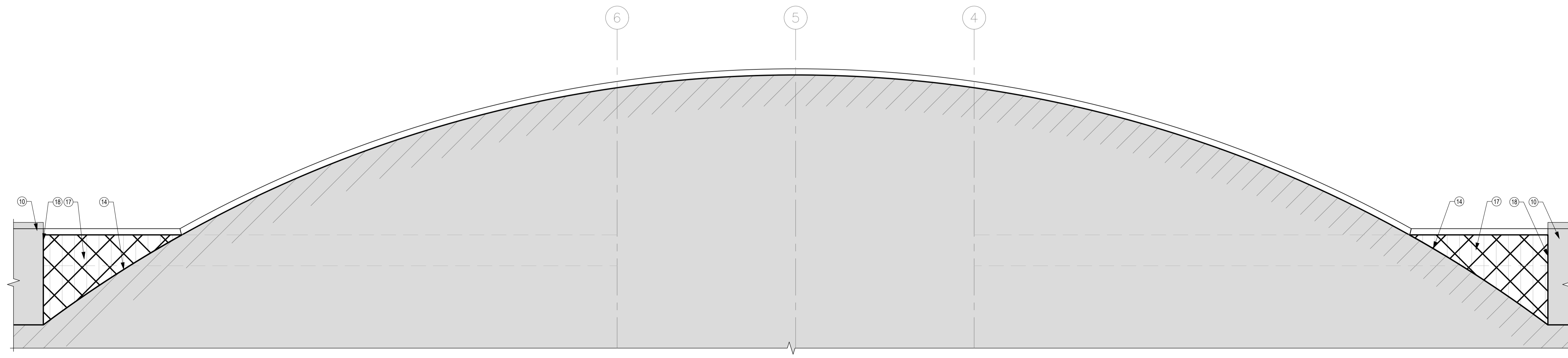
KEY PLAN PLAN CLÉ



10 PARTIAL NORTH ELEVATION OF SOUTH WALL - MECHANICAL EQUIPMENT CONTAMINATION  
A06 1:75



11 PARTIAL NORTH ELEVATION OF SOUTH WALL - SPRAY APPLIED FIREPROOFING CONTAMINATION  
A06 1:75

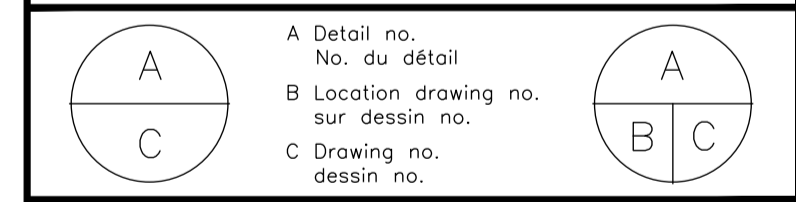


12 PARTIAL NORTH ELEVATION OF SOUTH WALL - CONTAMINATED ROOFING AND CLADDING  
A06 1:75

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 projet U-61, UPLANDS CAMPUS

drawing NORTH ELEVATION OF SOUTH WALL DECONTAMINATION WORK  
 dessin

designed G.C.	conçu	date 19-02-2020	date
drawn G.C.	dessiné	scale SHOWN / INDIQUÉE	échelle
checked R.S.	vérifié	sheet 7 of/de 14	feuille
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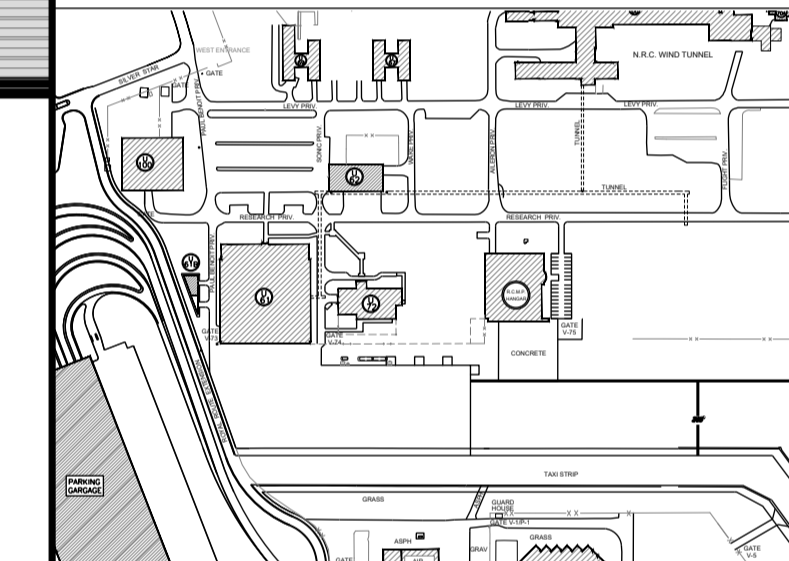
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KEY PLAN / PLAN CLÉ



No.	Date	Revision	By:
7			
6	15-12-2020	FOR ADDENDUM 2	G.C.
5	16-10-2020	FOR TENDER	G.C.
4	05-06-2020	100% - AIRPORT AUTHORITY APPROVAL	G.C.
3	29-04-2020	FOR 99% REVIEW	G.C.
2	19-02-2020	FOR 90% REVIEW	G.C.
1	20-11-2019	FOR 66% REVIEW	G.C.

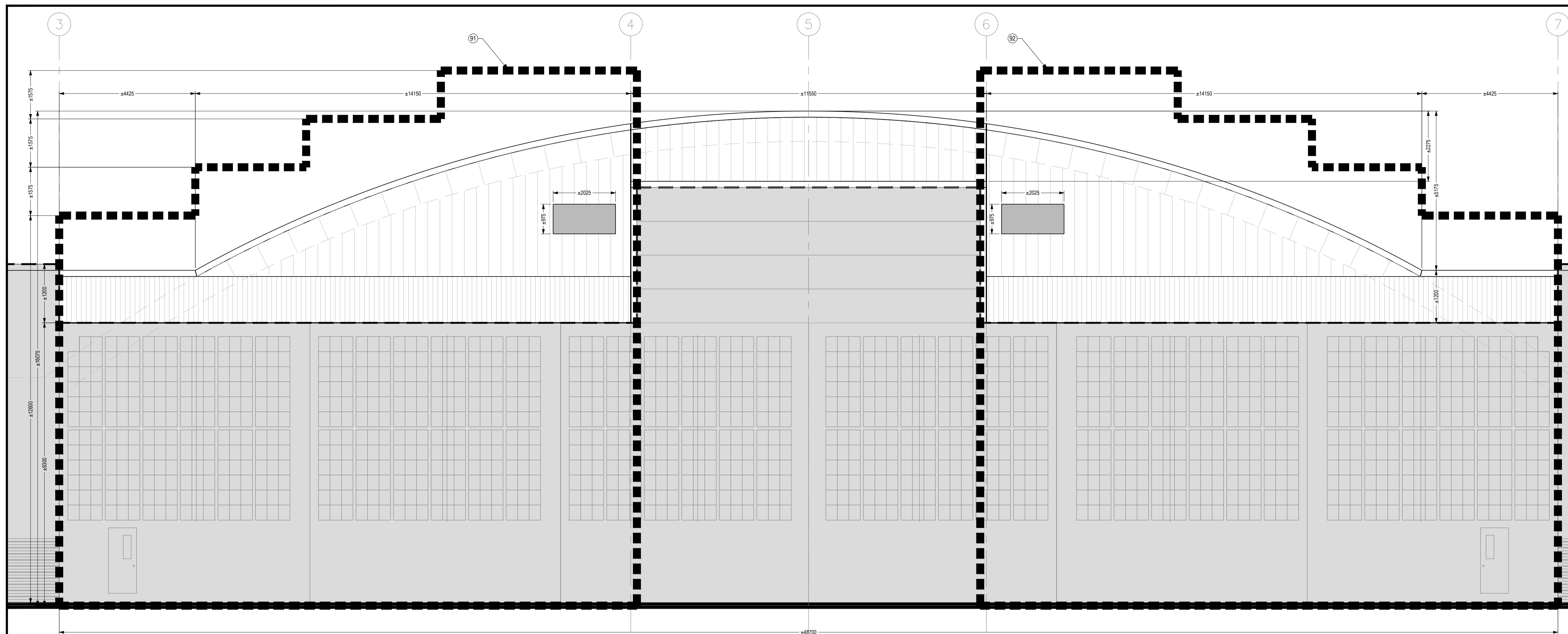
Date Printed DD MM YYYY / Date imprimée

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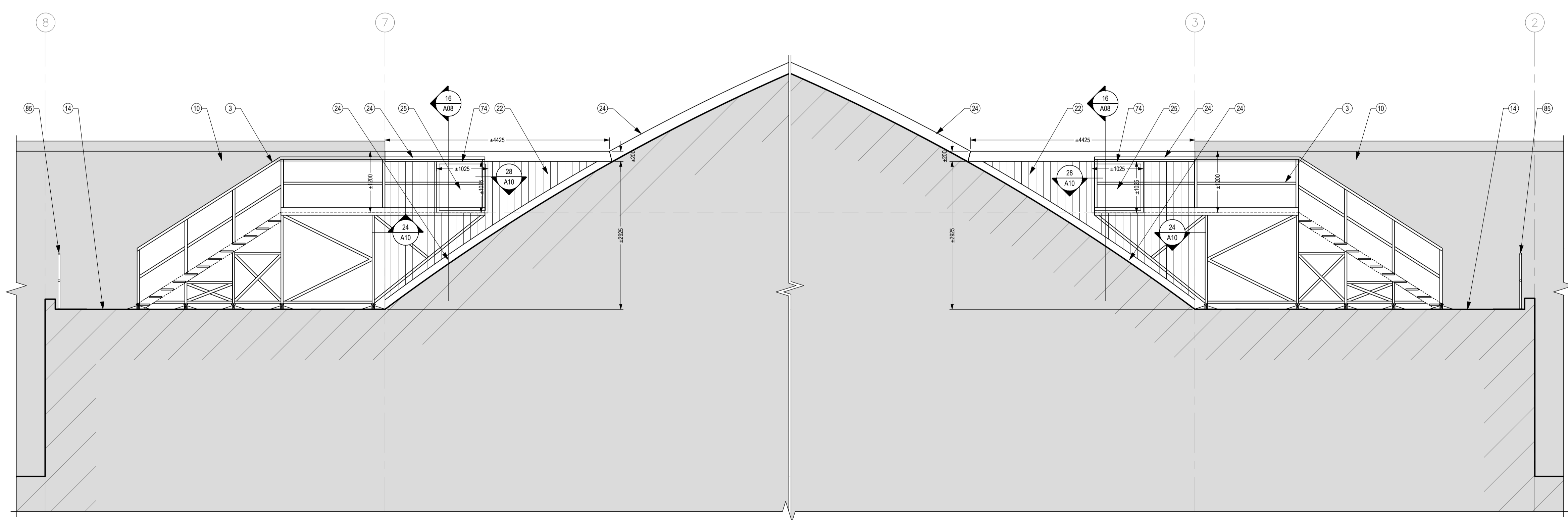
A	A Detail no.	A
B	No. du détail	B
C	Location drawing no.	C
	sur dessin no.	
	Drawing no.	
	dessin no.	

project / projet  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**  
 BUILDING U-61, UPLANDS CAMPUS  
 drawing / dessin  
**SCAFFOLDING ELEVATIONS AND PARTIAL NORTH ELEVATION OF SOUTH WALL**

designed / conçu	G.C.	date	19-02-2020
drawn / dessiné	G.C.	scale / échelle	SHOWN / INDIQUÉE
checked / vérifié	R.S.	sheet / feuille	8 of/de 14
approved / approuvé	J.L. / J.C.W.	W.D.no. / D.T.no.	A1-011227-20
dwg.no. / ACAD file:	5698-A07	dessin no. / fichier CDAO:	



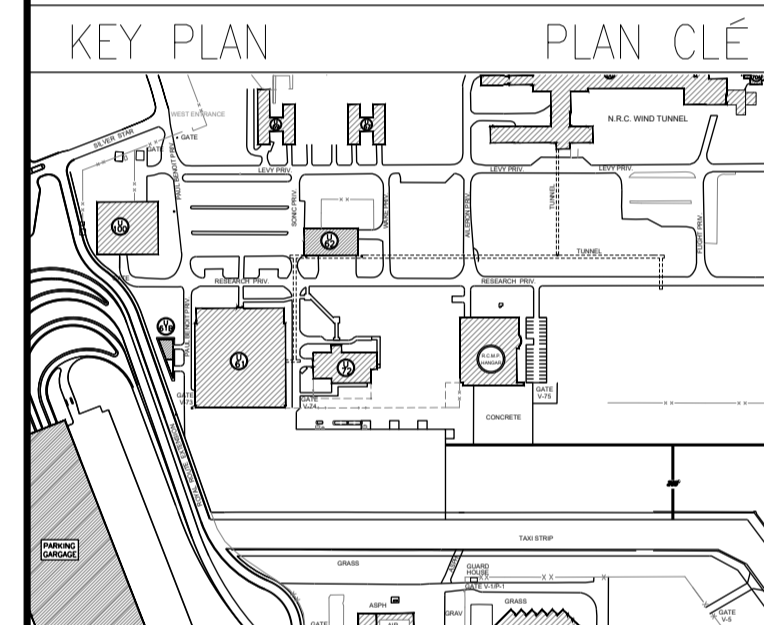
13 SCAFFOLDING ELEVATION  
A07 1:75



14 PARTIAL NORTH ELEVATION OF SOUTH WALL  
A07 1:50

GENERAL NOTES

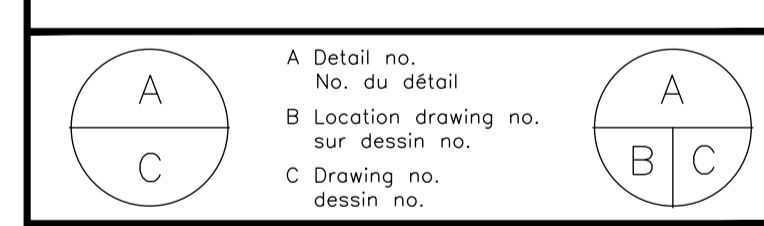
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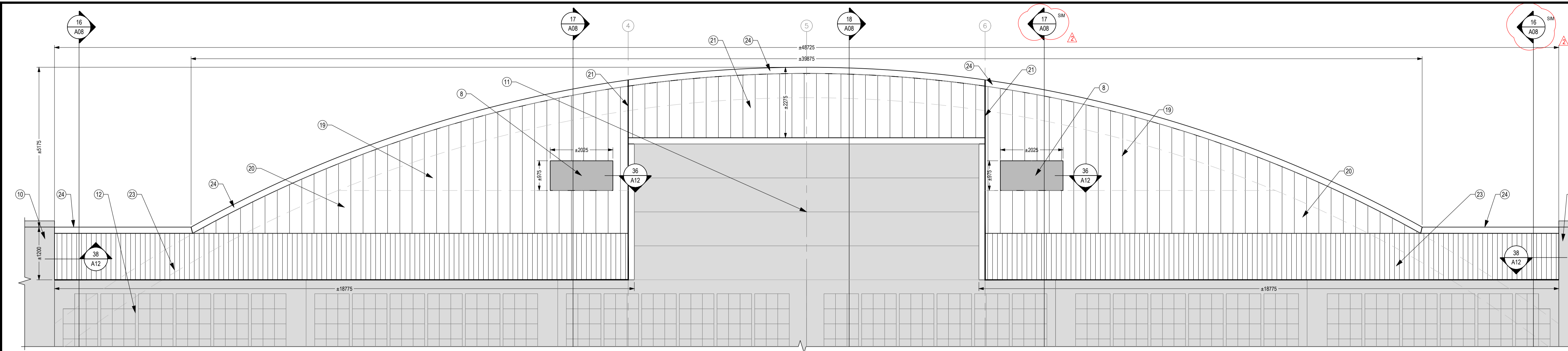


project  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**  
 BUILDING U-61, UPLANDS CAMPUS

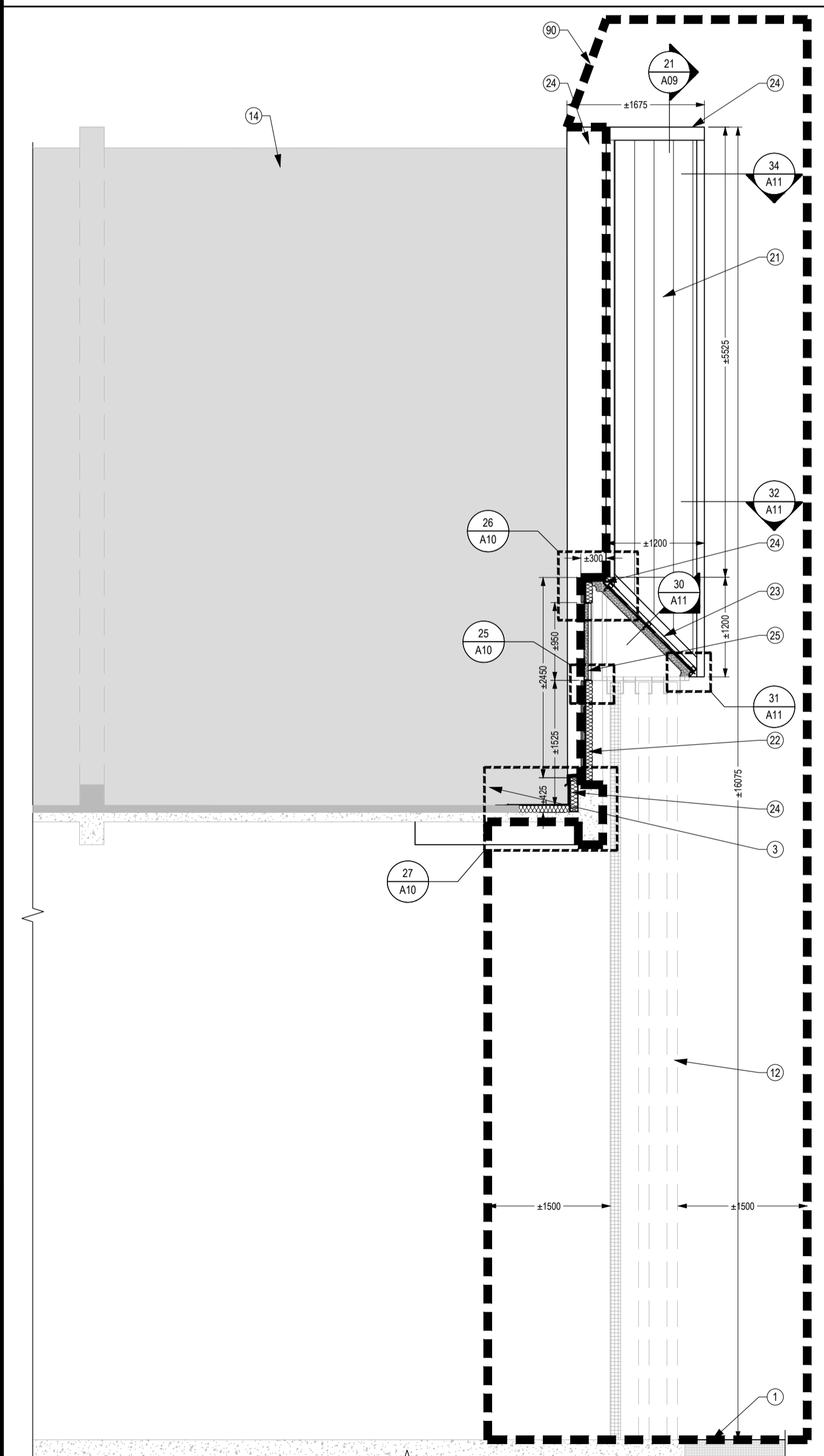
drawing  
**PARTIAL SOUTH ELEVATION, SECTIONS AND PHOTOS**

designed	conçu	date	date
G.C.		19-02-2020	
drawn	dessiné	scale	échelle
G.C.		SHOWN / INDIQUÉE	
checked	vérifié	sheet	feuille
R.S.		9 of/ de 14	
approved	approuvé	W.D.no.	D.T.no.
J.L. / J.C.W.		A1-011227-20	

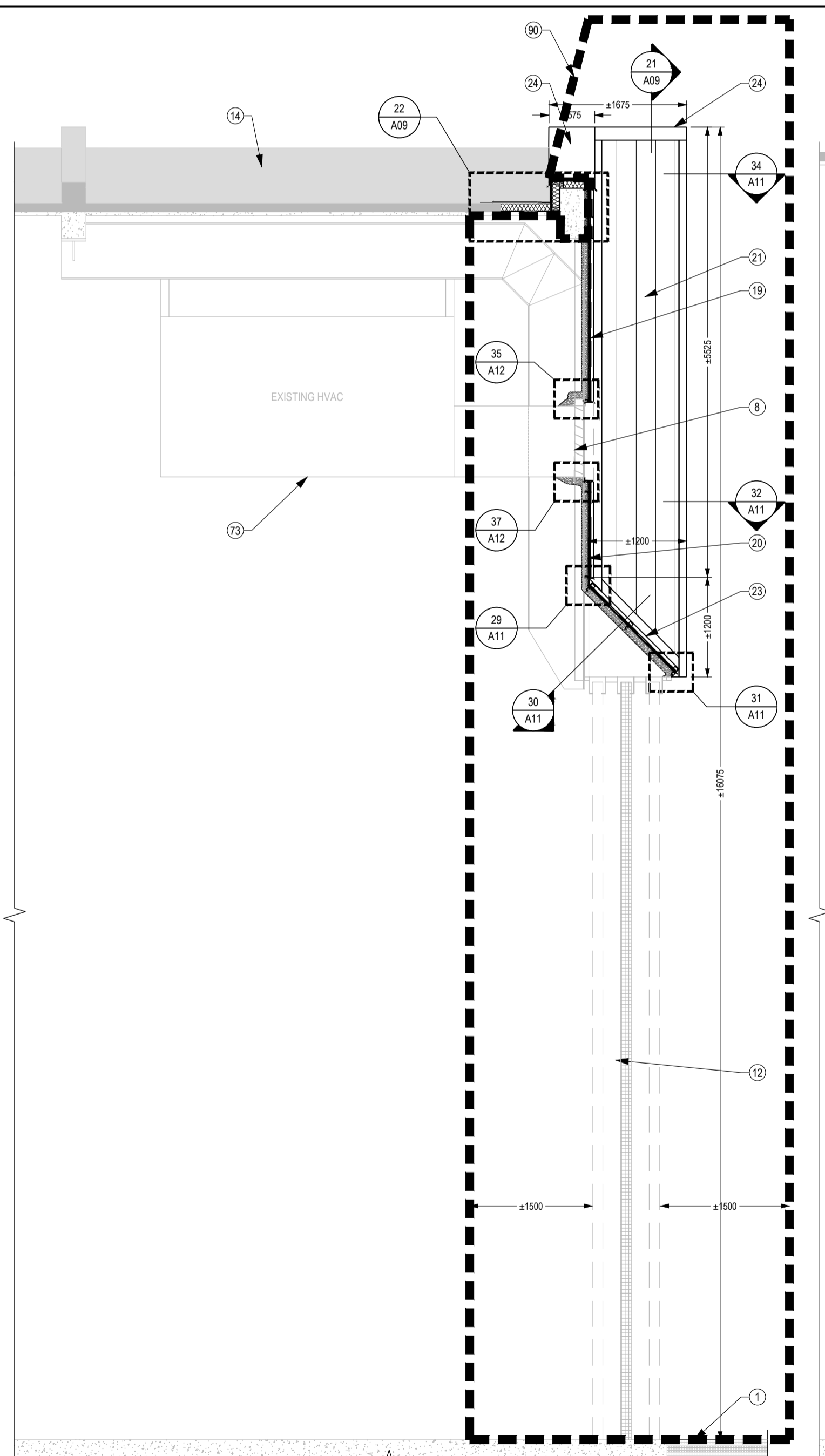
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 ACAD file: 5698-A08  
 dessin no. A1-011227-20  
 fichier CDAO:



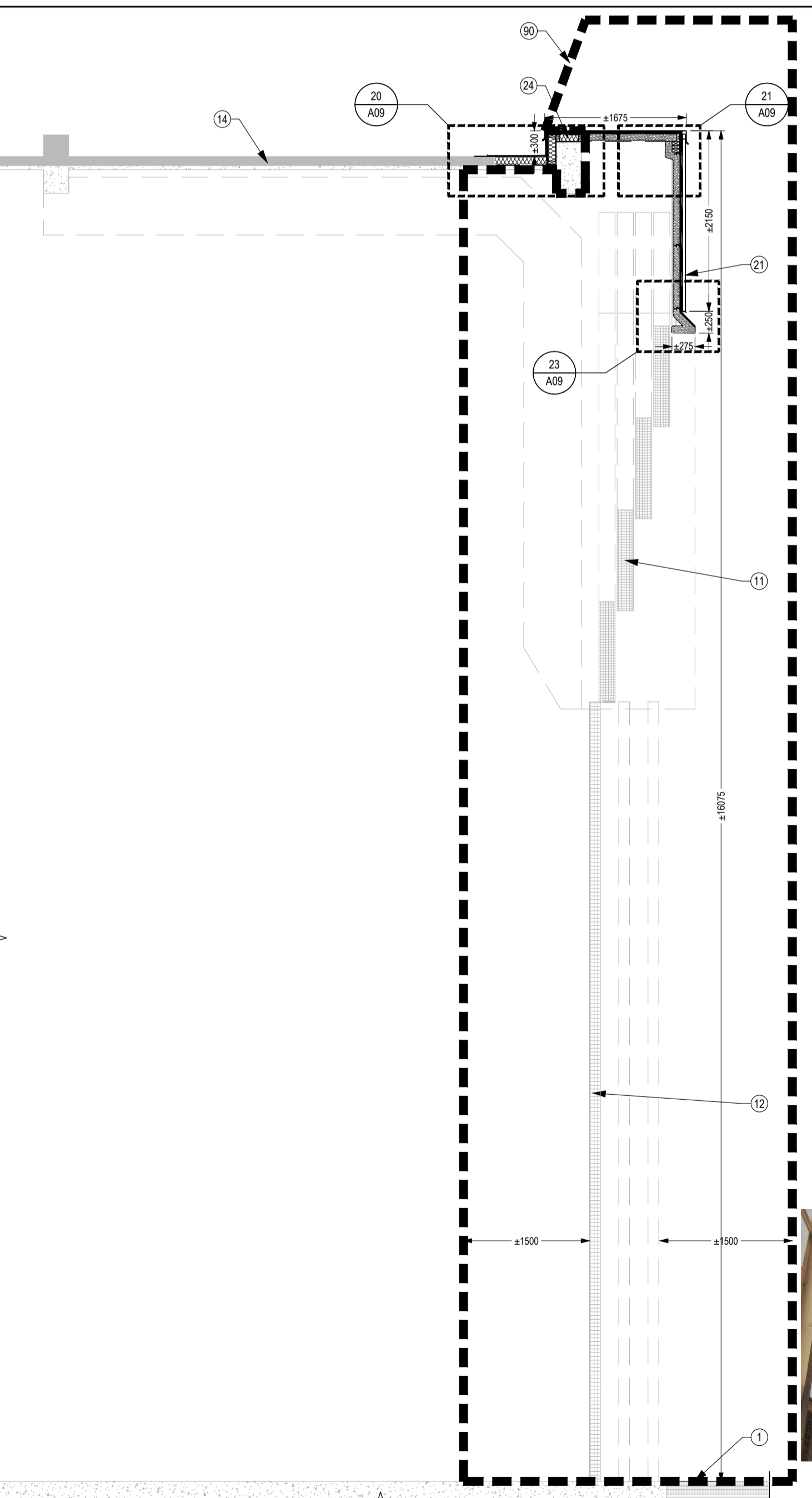
15 PARTIAL SOUTH ELEVATION  
 A08 1:75



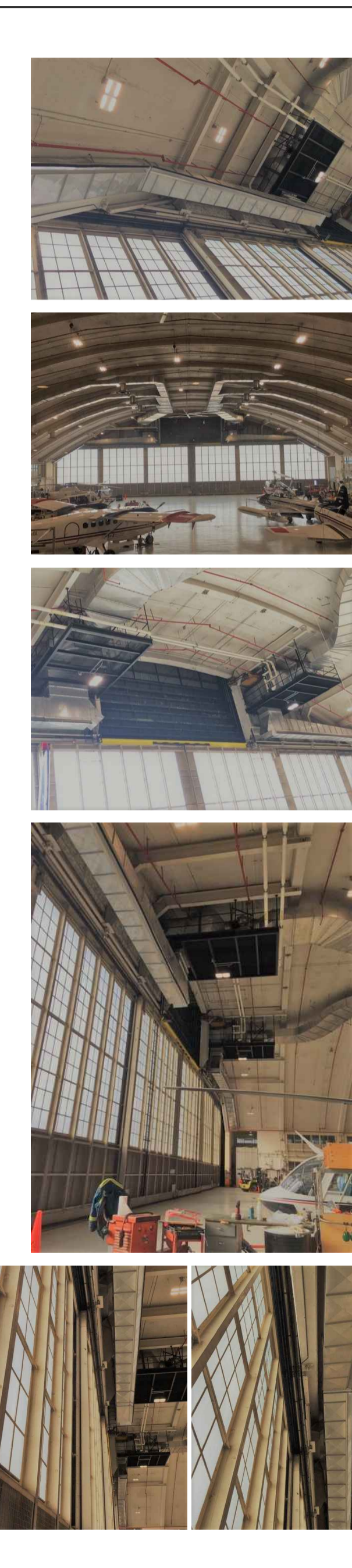
16 CROSS SECTION 'A'  
 A08 1:50



17 CROSS SECTION 'B'  
 A08 1:50



18 CROSS SECTION 'C'  
 A08 1:50



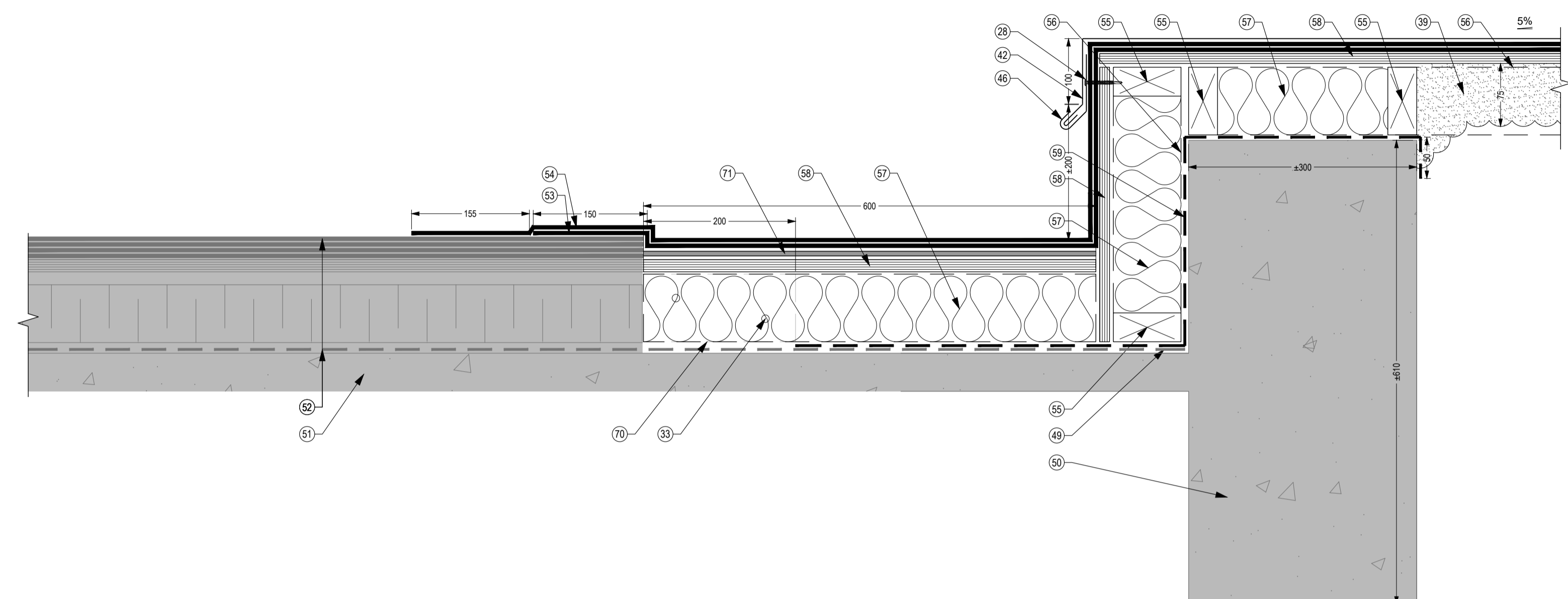
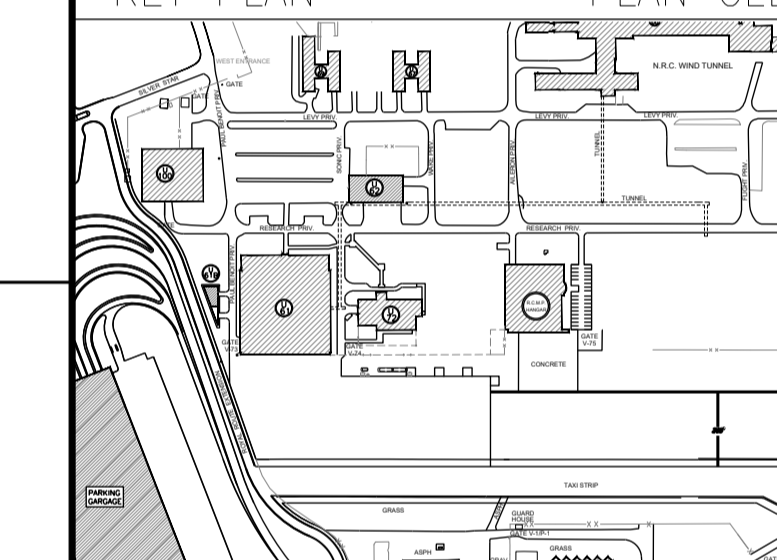
19 INTERIOR HANGER PHOTOS  
 A08 NTS

GENERAL NOTES

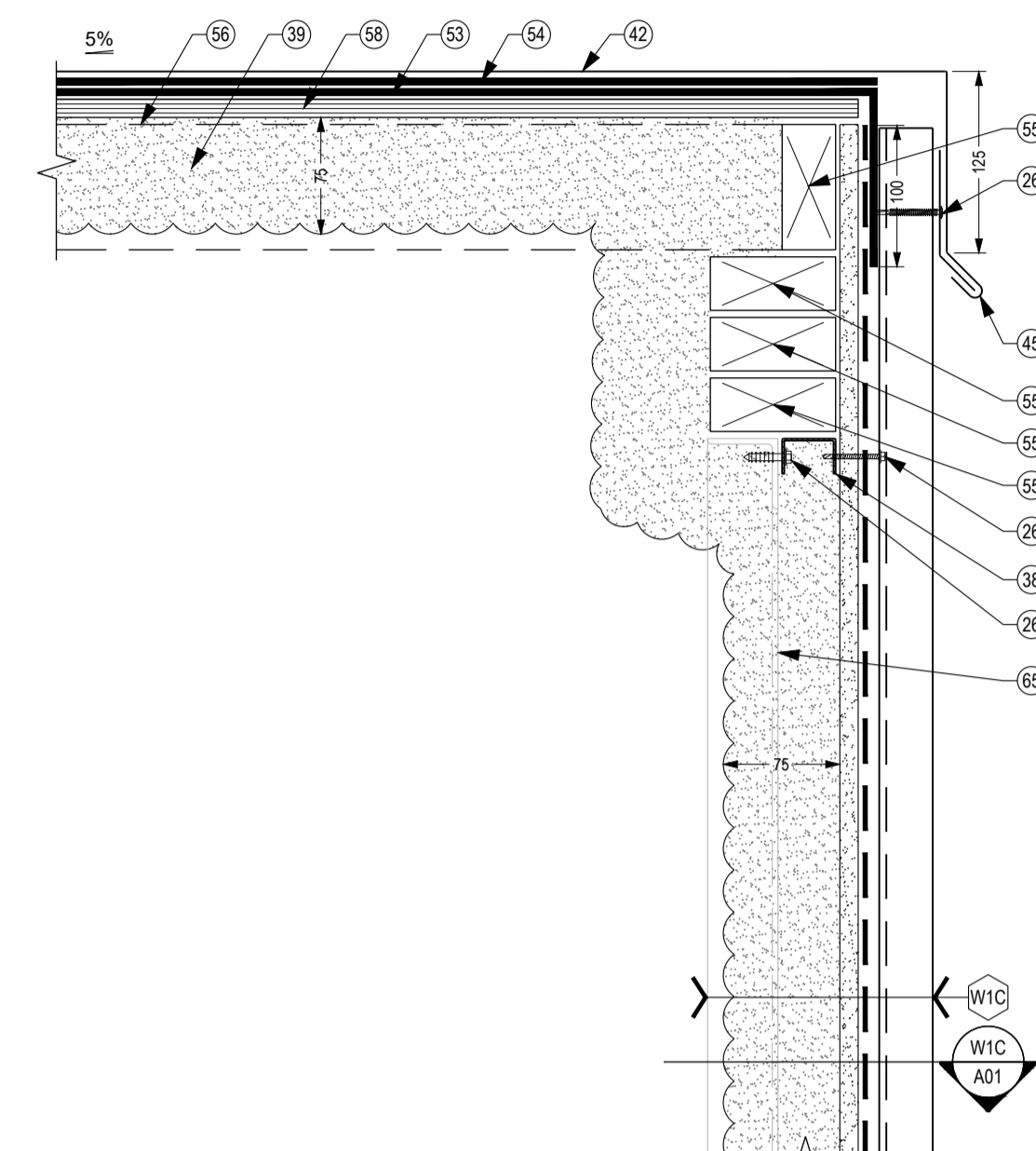
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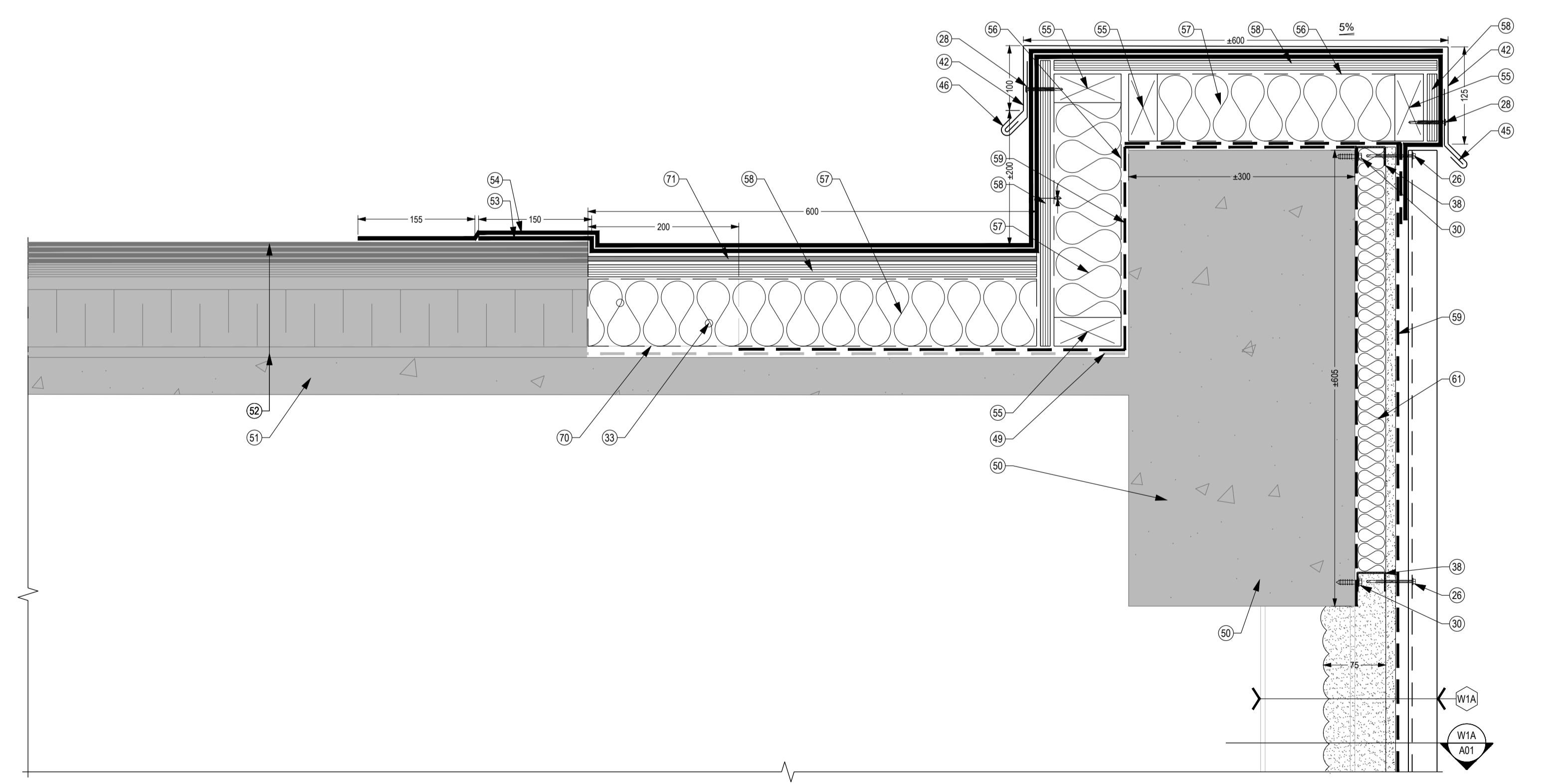
KEY PLAN PLAN CLÉ



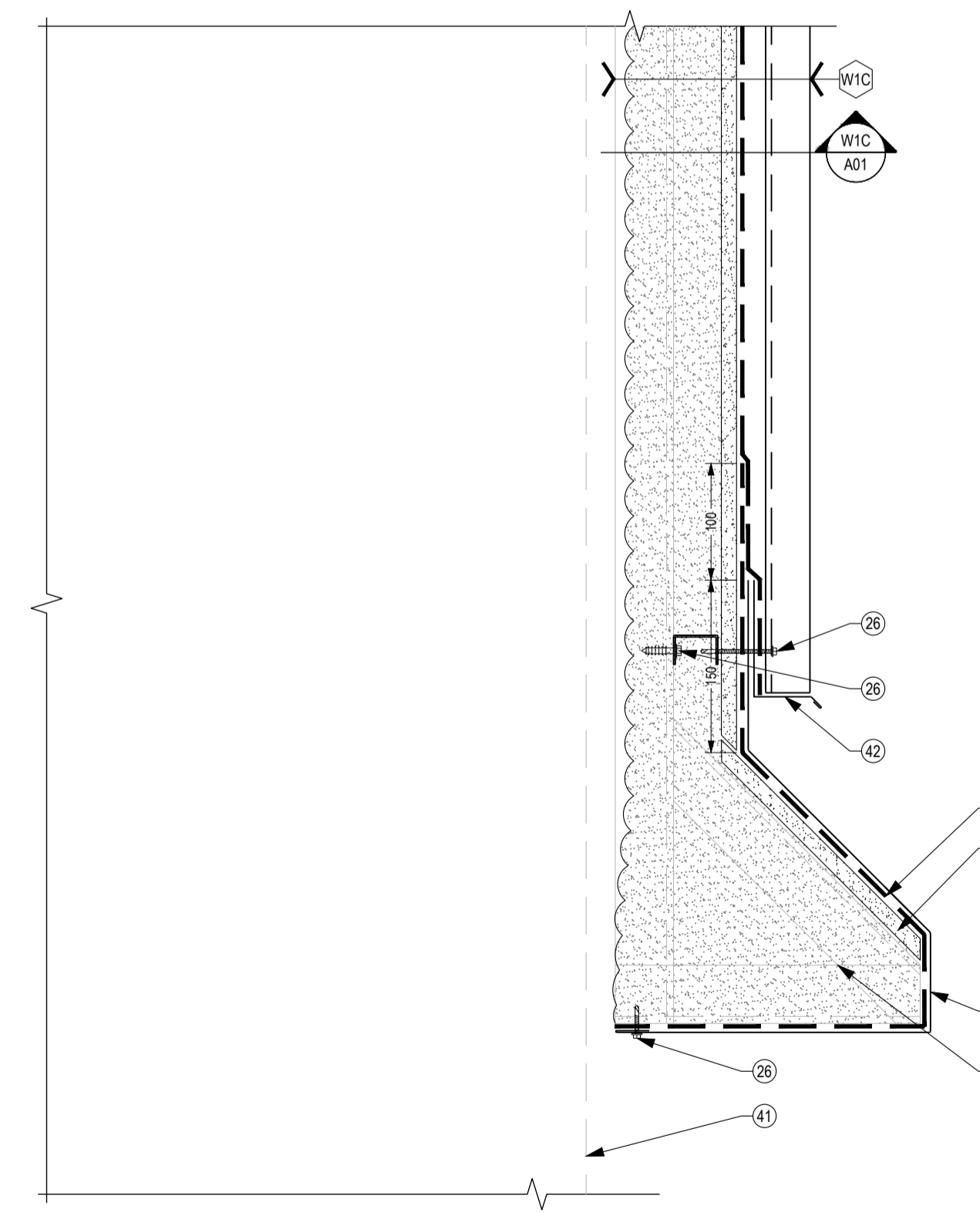
20 REAR PARAPET AT VERTICAL BAY DOOR  
 A09 1:5 SECTION VIEW



21 PARAPET AT VERTICAL BAY DOOR  
 A09 1:5 SECTION VIEW



22 PARAPET AT STEEL CLADDING  
 A09 1:5 SECTION VIEW



23 VERTICAL BAY DOOR HEAD  
 A09 1:5 SECTION VIEW

No.	Date	Revision	By:
7			
6	15-12-2020	FOR ADDENDUM A	G.C.
5	16-10-2020	FOR TENDER	G.C.
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A	B	C
A	B	C

A Detail no. No. du détail  
 B Location drawing no. sur dessin no.  
 C Drawing no. dessin no.

project projet  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**  
 BUILDING U-61, UPLANDS CAMPUS

drawing dessin  
**DETAILS**

designed	conçu	date	date
G.C.		19-02-2020	
drawn	dessiné	scale	échelle
G.C.		SHOWN / INDIQUÉE	
checked	vérifié	sheet	feuille
R.S.		10 of/ de 14	
approved	approuvé	W.D.no.	D.T.no.
J.L. / J.C.W.		A1-011227-20	

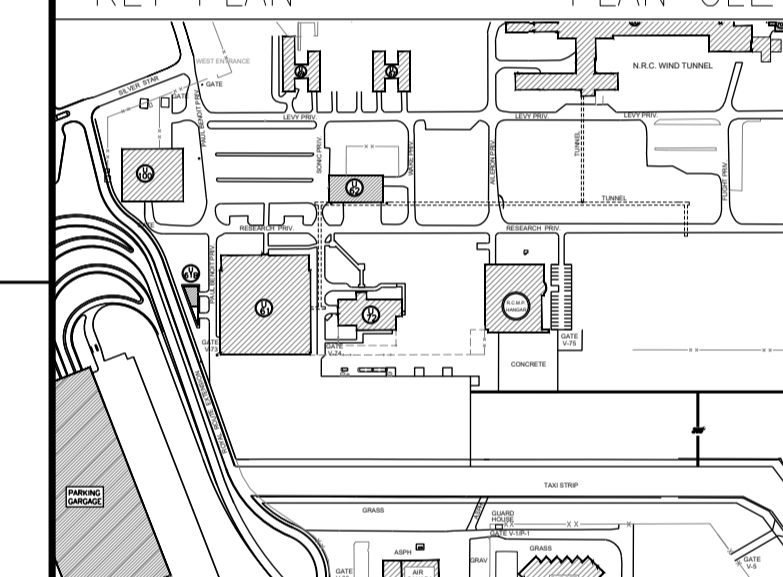
dwg.no. 5698-A09 dessin no.  
 ACAD file: fichier CDAO:

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C	C Drawing no. / dessin no.	C

project: U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT

BUILDING U-61, UPLANDS CAMPUS

drawing: DETAILS / dessin

designed G.C. / conçu G.C. date 19-02-2020 / date

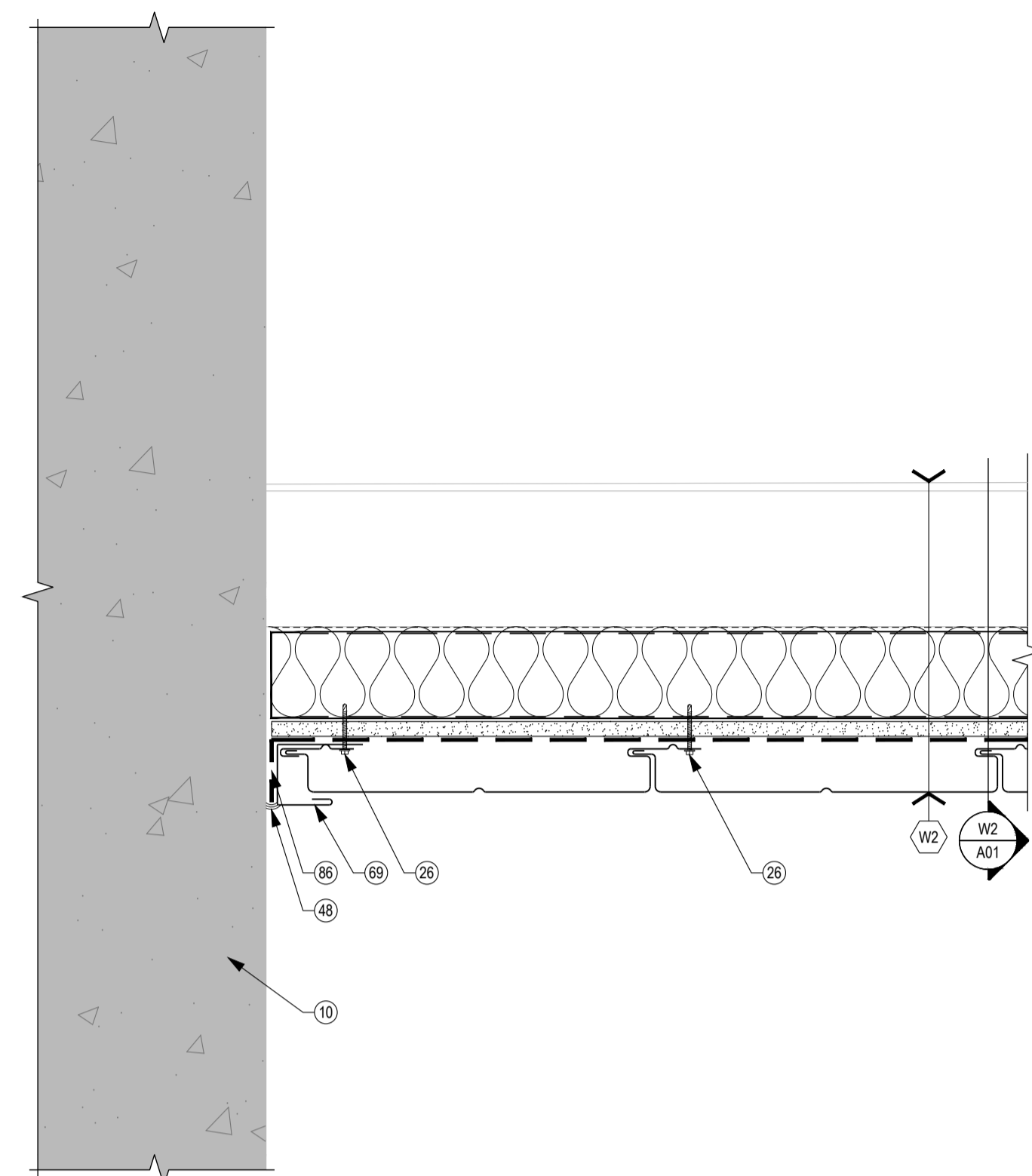
drawn G.C. / dessiné G.C. scale SHOWN / INDIQUÉE / échelle

checked R.S. / vérifié R.S. sheet 11 of/de 14 / feuille

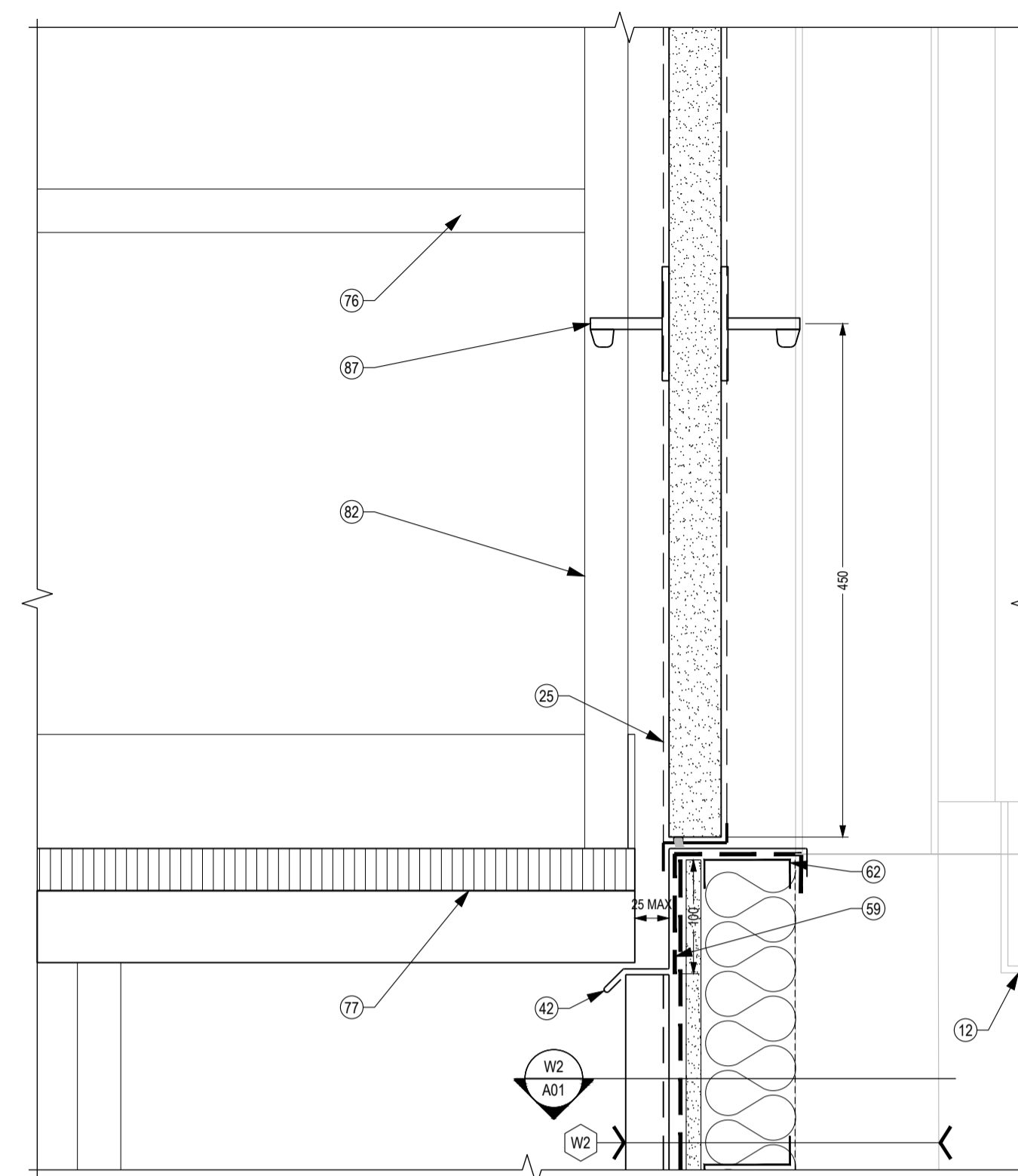
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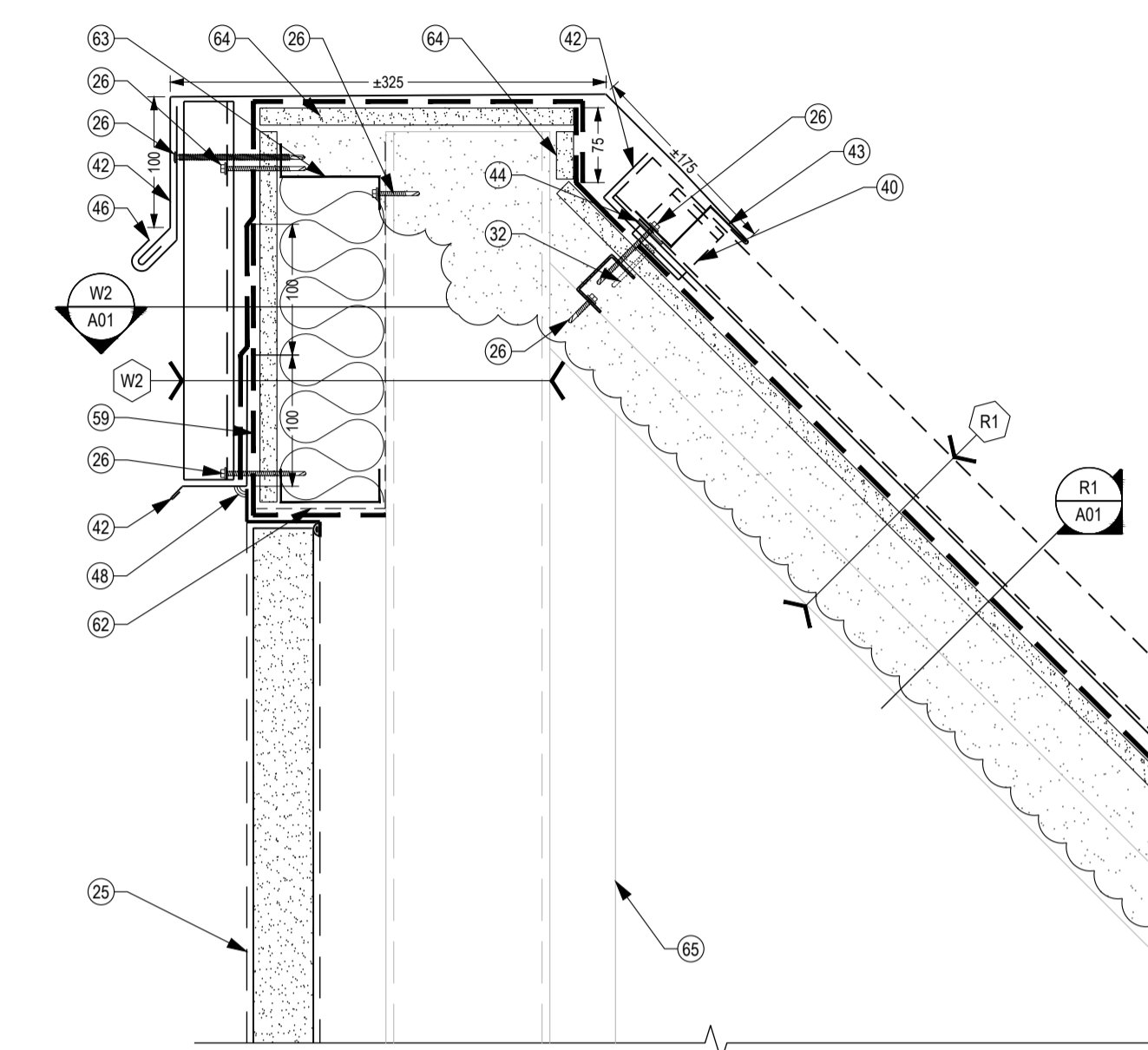
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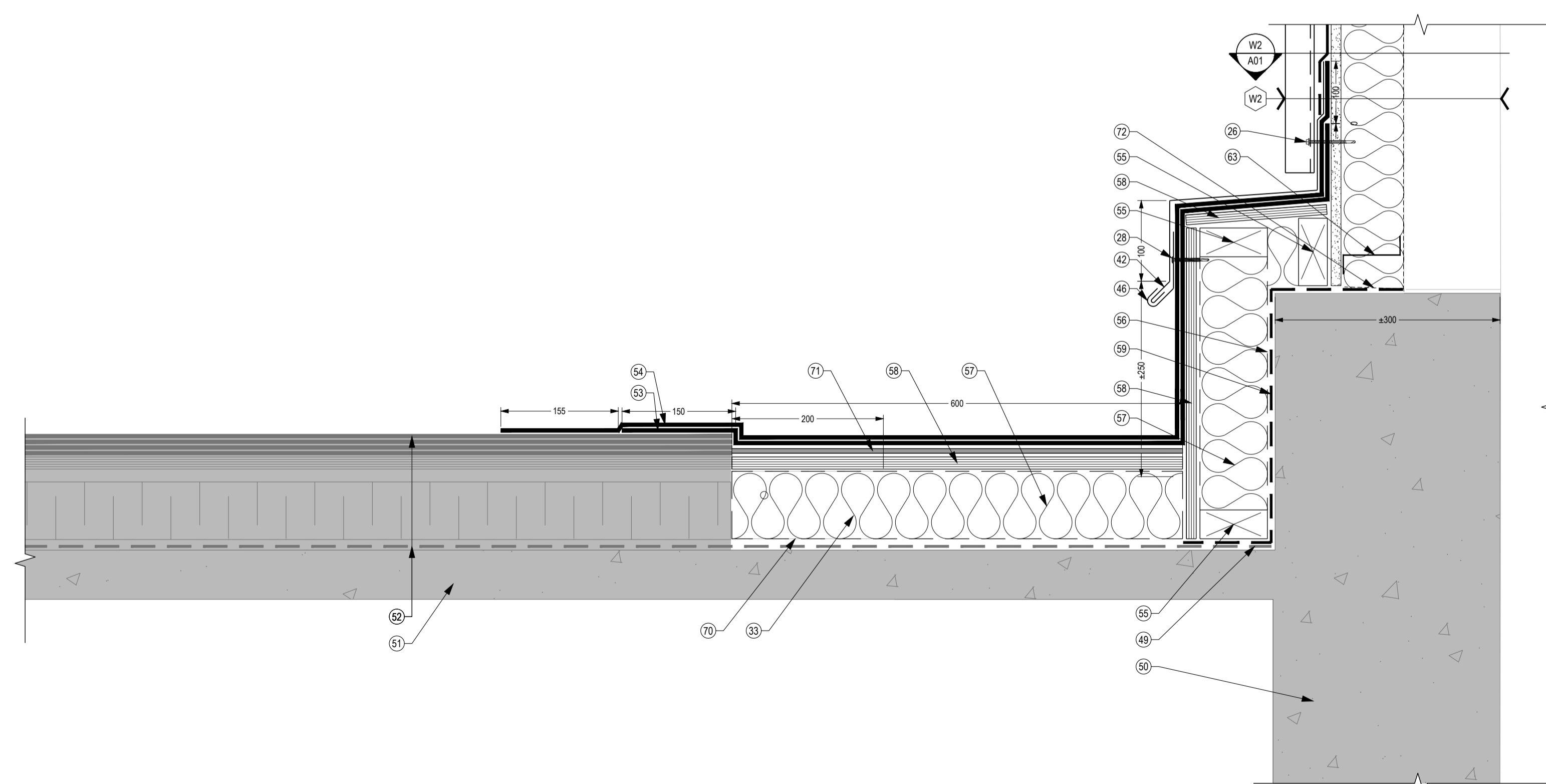
24 REAR CLADDING TIE-IN TO CONCRETE WALL  
A10 1:5 PLAN VIEW



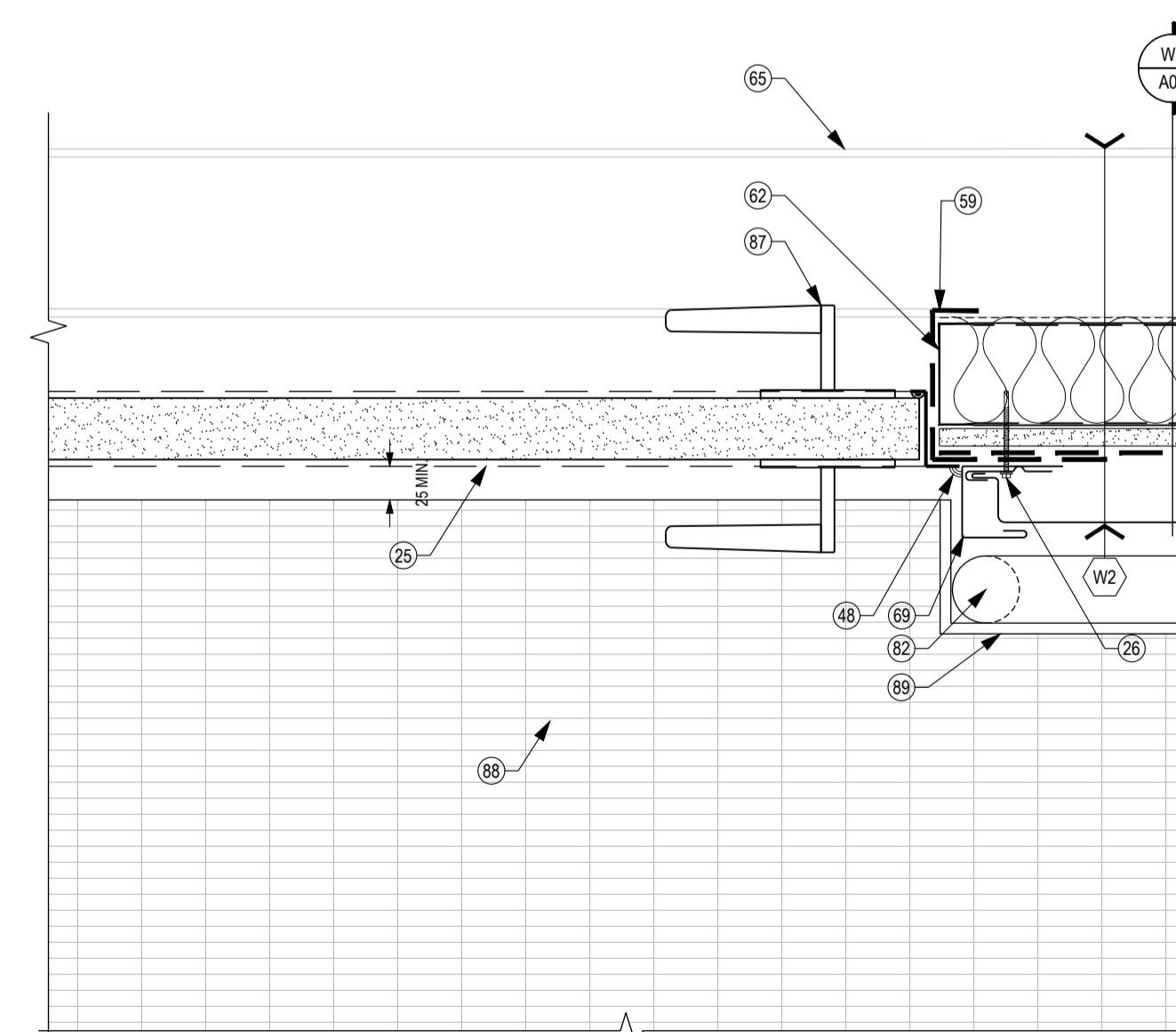
25 WALL HATCH SILL  
A10 1:5 SECTION VIEW



26 PARAPET BETWEEN REAR WALL AND STEEL ROOF  
A10 1:5 SECTION VIEW



27 REAR WALL TIE-IN AT DOME ROOF  
A10 1:5 SECTION VIEW



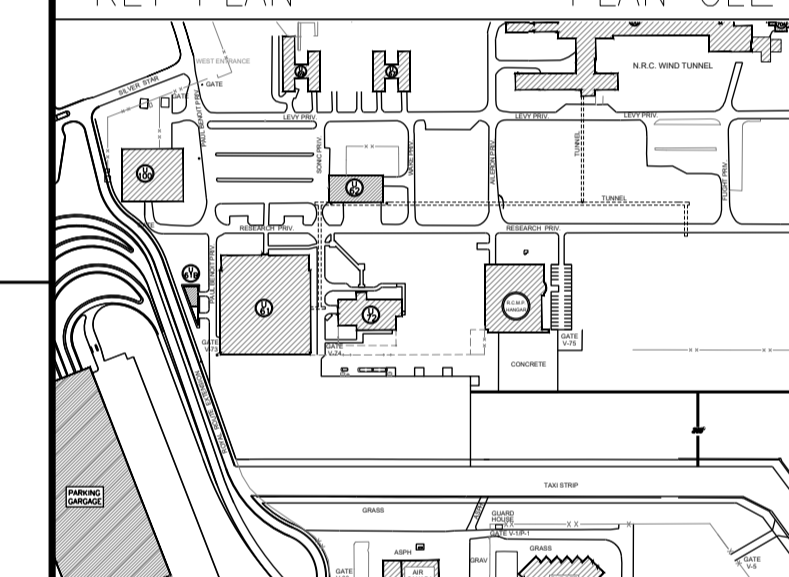
28 WALL HATCH JAMB  
A10 1:5 PLAN VIEW

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project / projet  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**

building / bâtiment  
**BUILDING U-61, UPLANDS CAMPUS**

drawing / dessin  
**DETAILS**

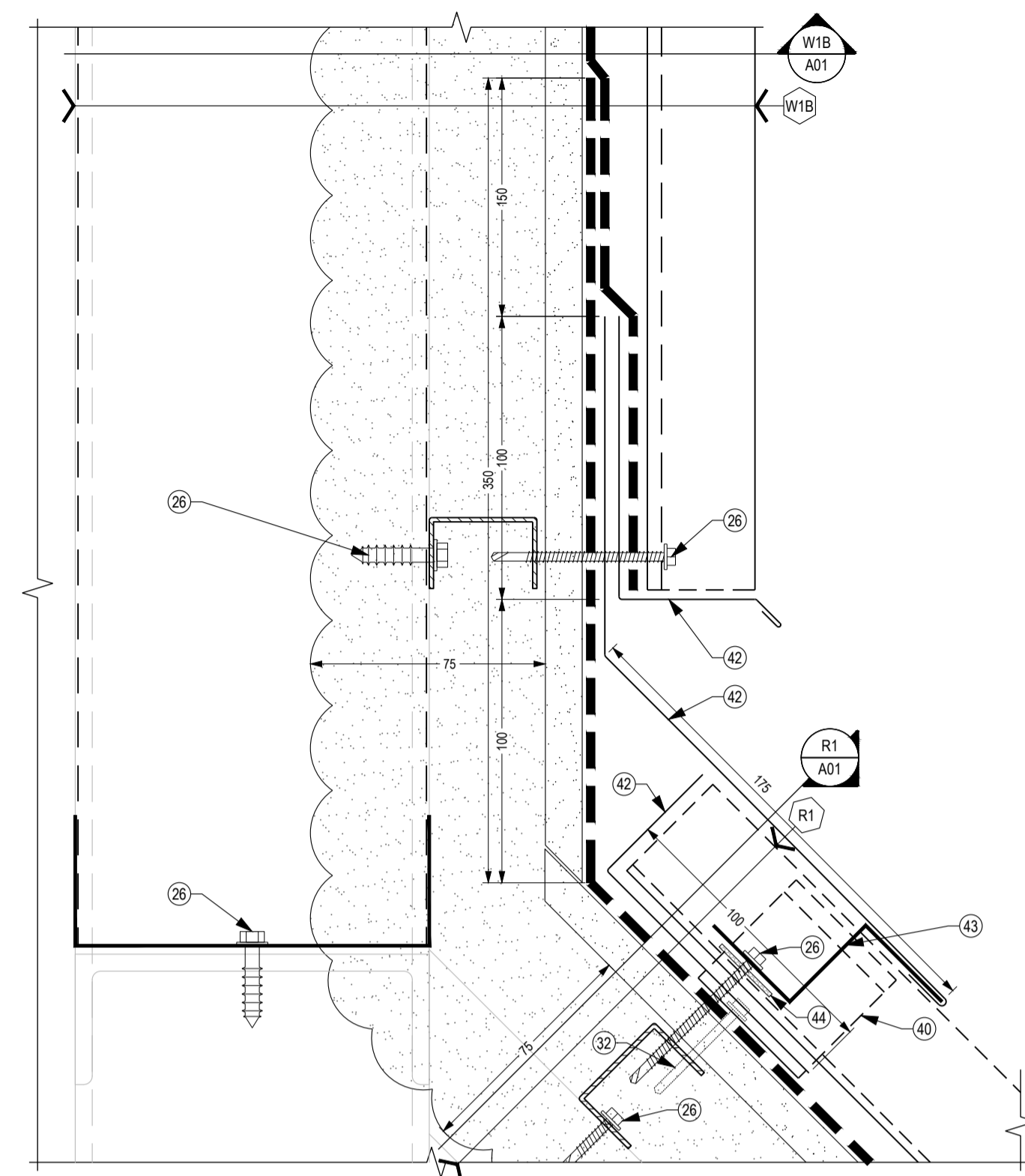
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drawn / dessiné G.C. scale / échelle SHOWN / INDIQUÉE

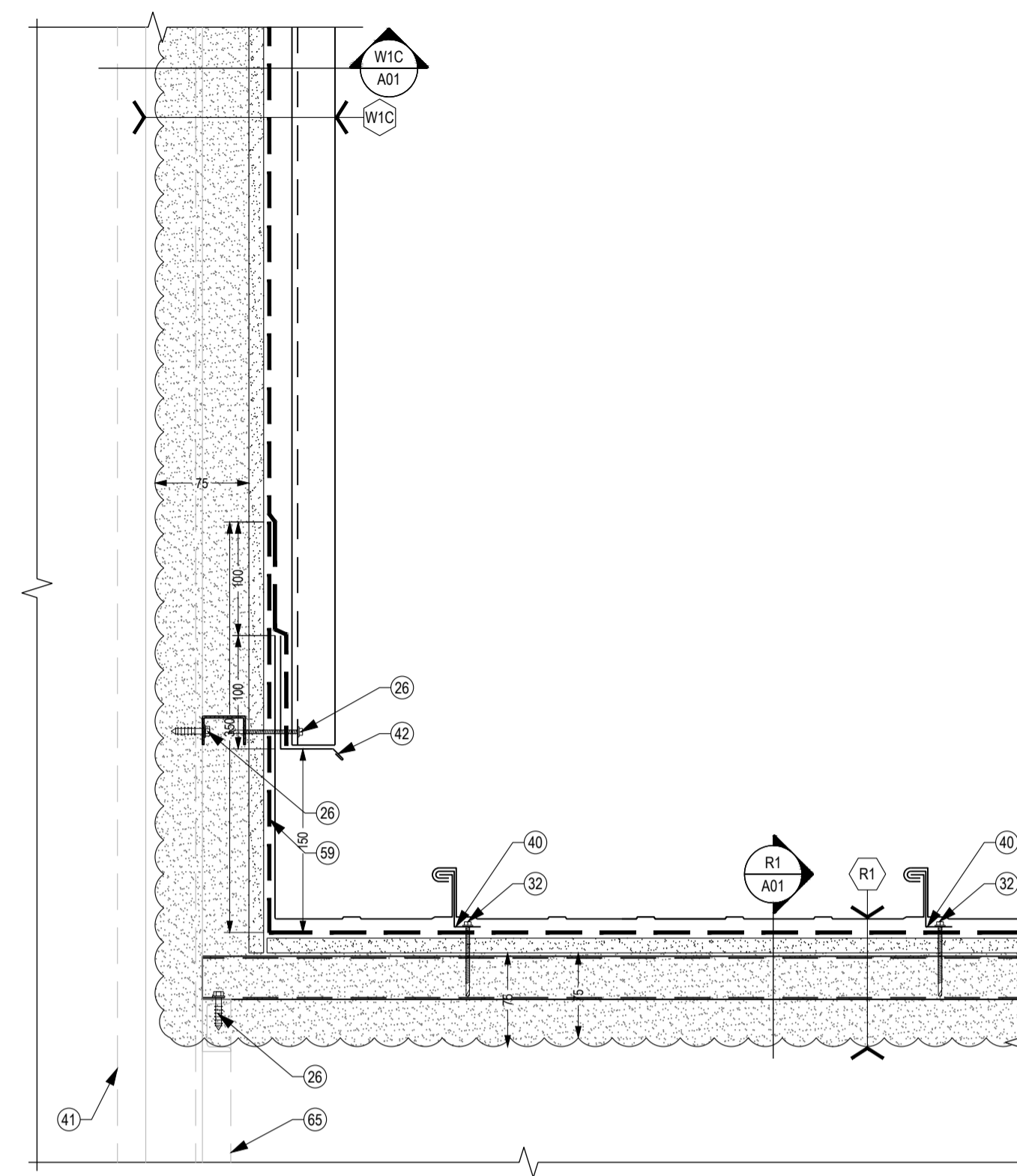
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approved / approuvé J.L. / J.C.W. W.D.no. / D.T.no. A1-011227-20

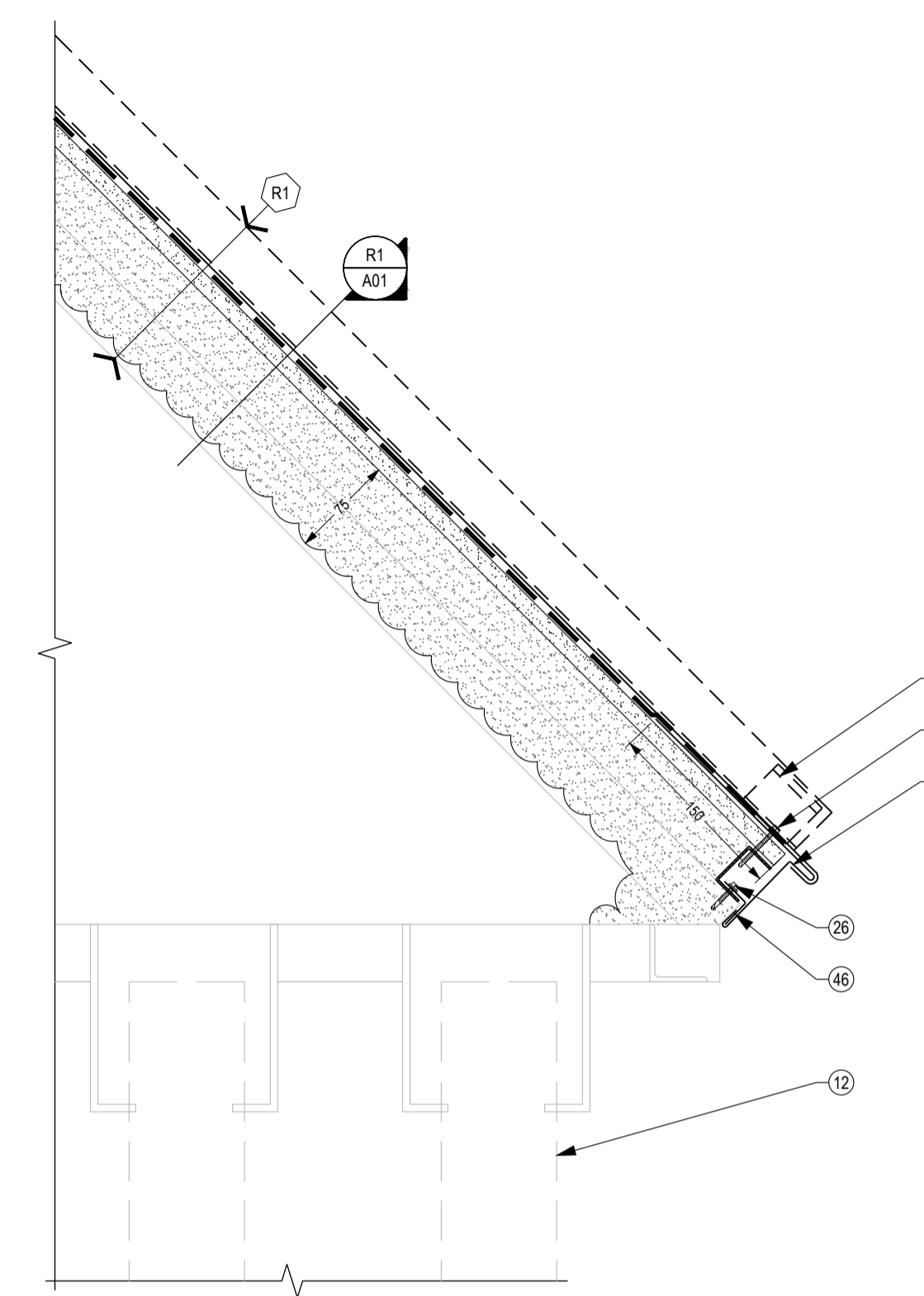
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 ACAD file: / fichier CDAO:



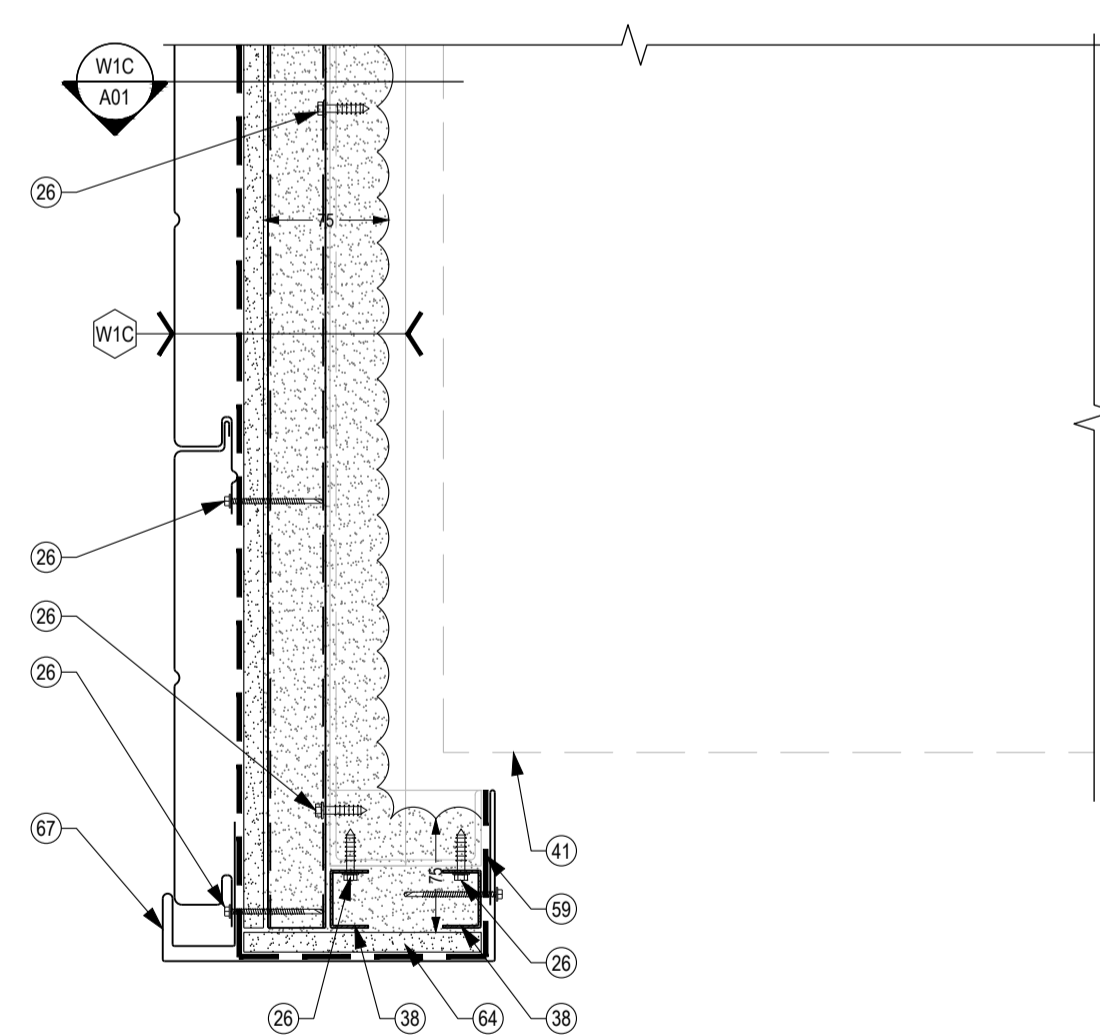
29 STEEL ROOF TO METAL CLADDING  
 A11 1:2 SECTION VIEW



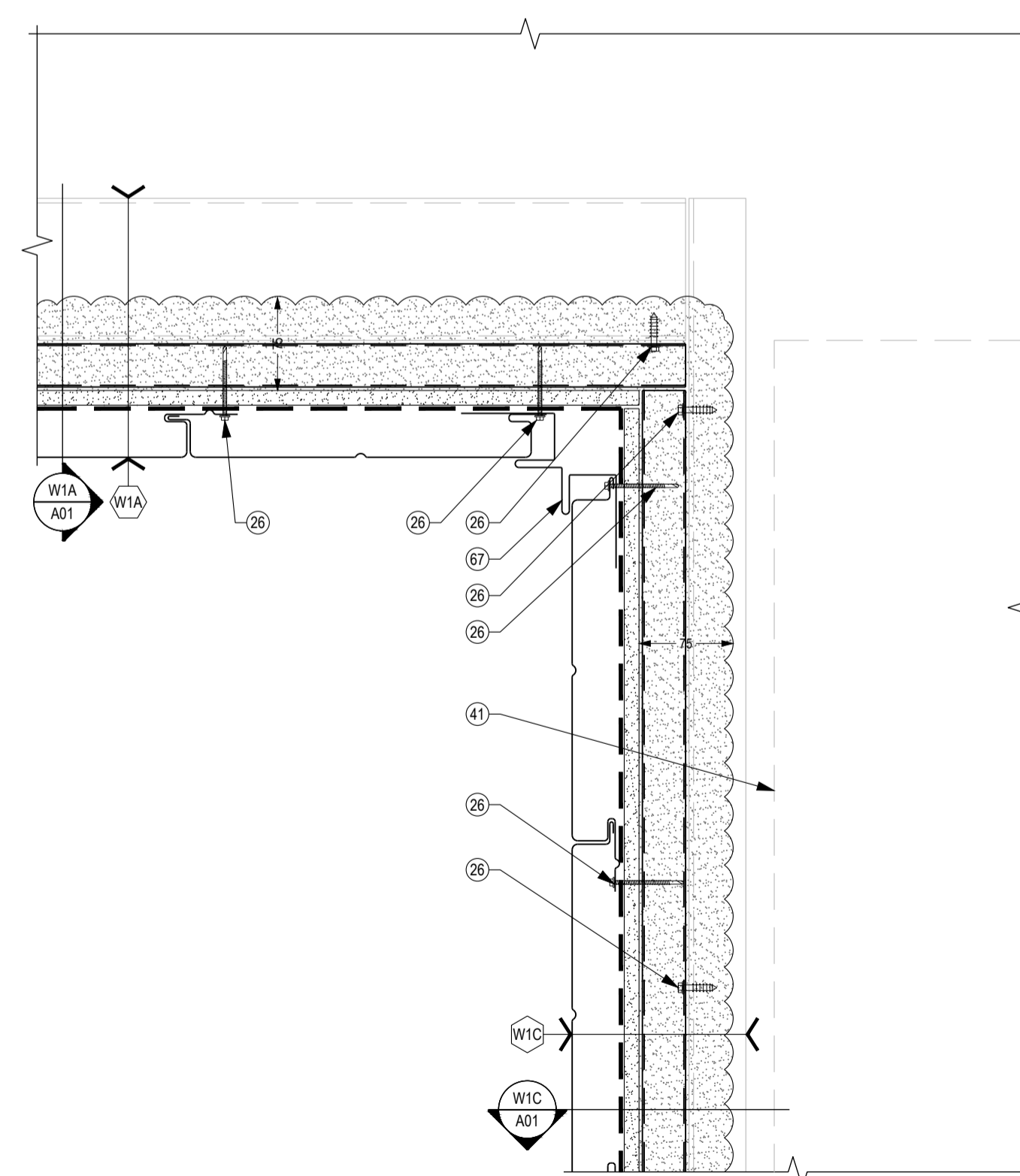
30 LATERAL ROOF TIE-IN TO NEW CLADDING  
 A11 1:5 SECTION VIEW



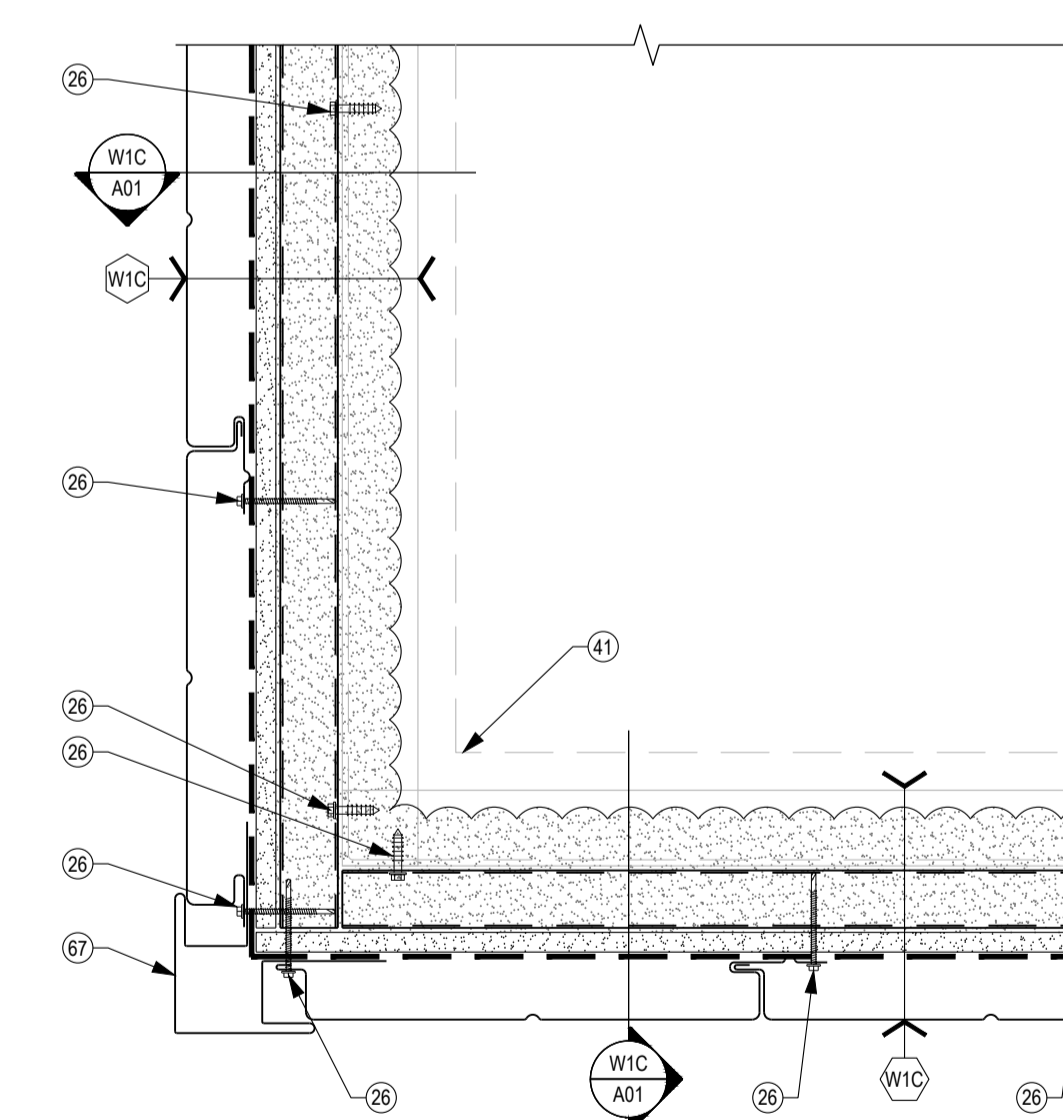
31 METAL ROOF EAVE  
 A11 1:5 SECTION VIEW



32 NEW CLADDING EXTERIOR CORNER AND BAY DOOR JAMB  
 A11 1:5 PLAN VIEW



33 NEW CLADDING INTERIOR CORNER  
 A11 1:5 PLAN VIEW



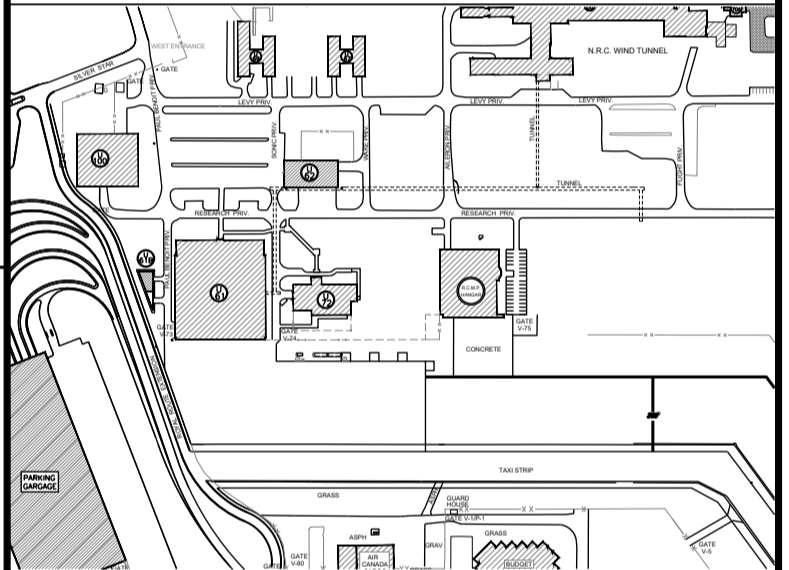
34 NEW CLADDING EXTERIOR CORNER  
 A11 1:5 PLAN VIEW

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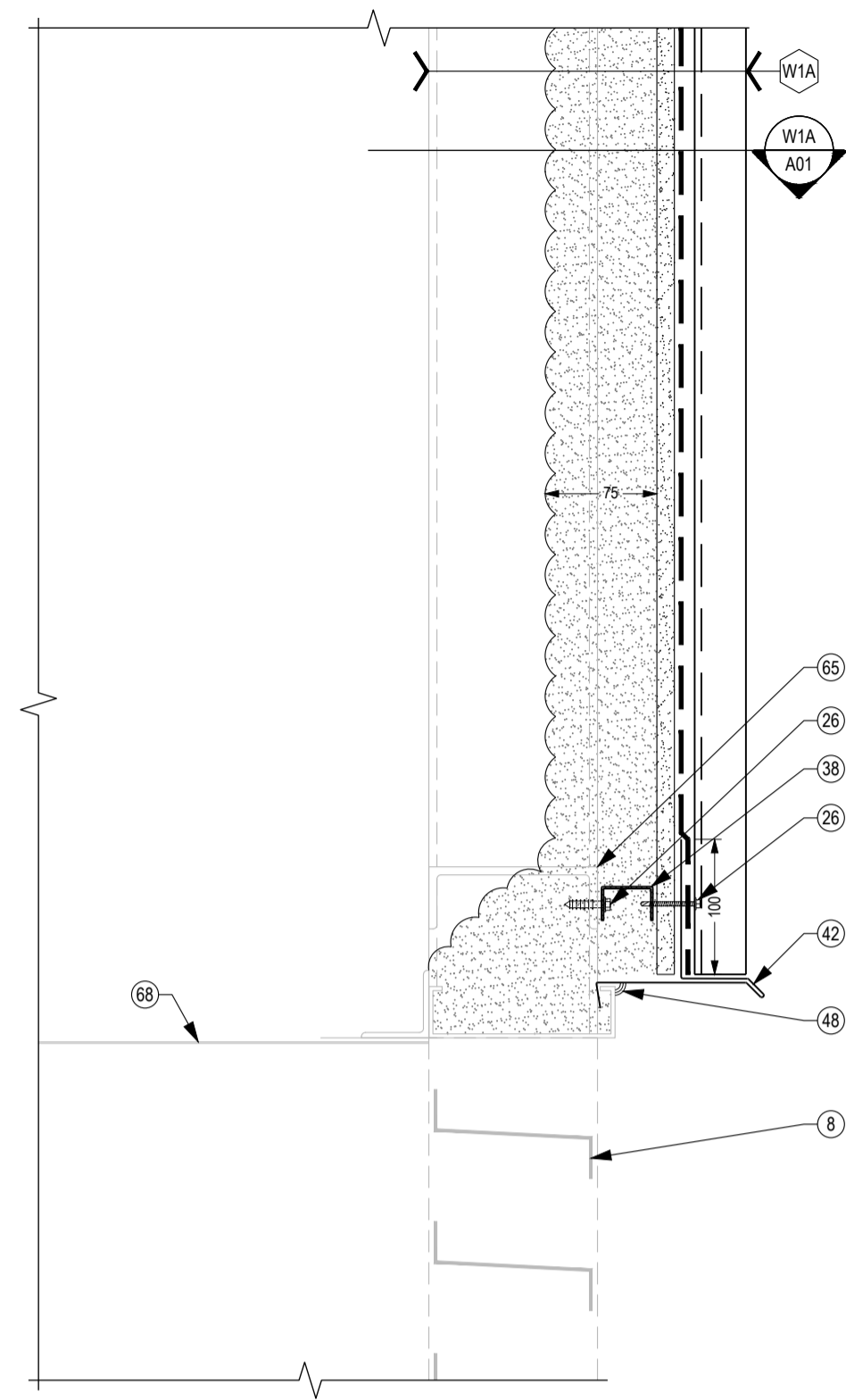
project / projet  
**U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT**

**BUILDING U-61, UPLANDS CAMPUS**

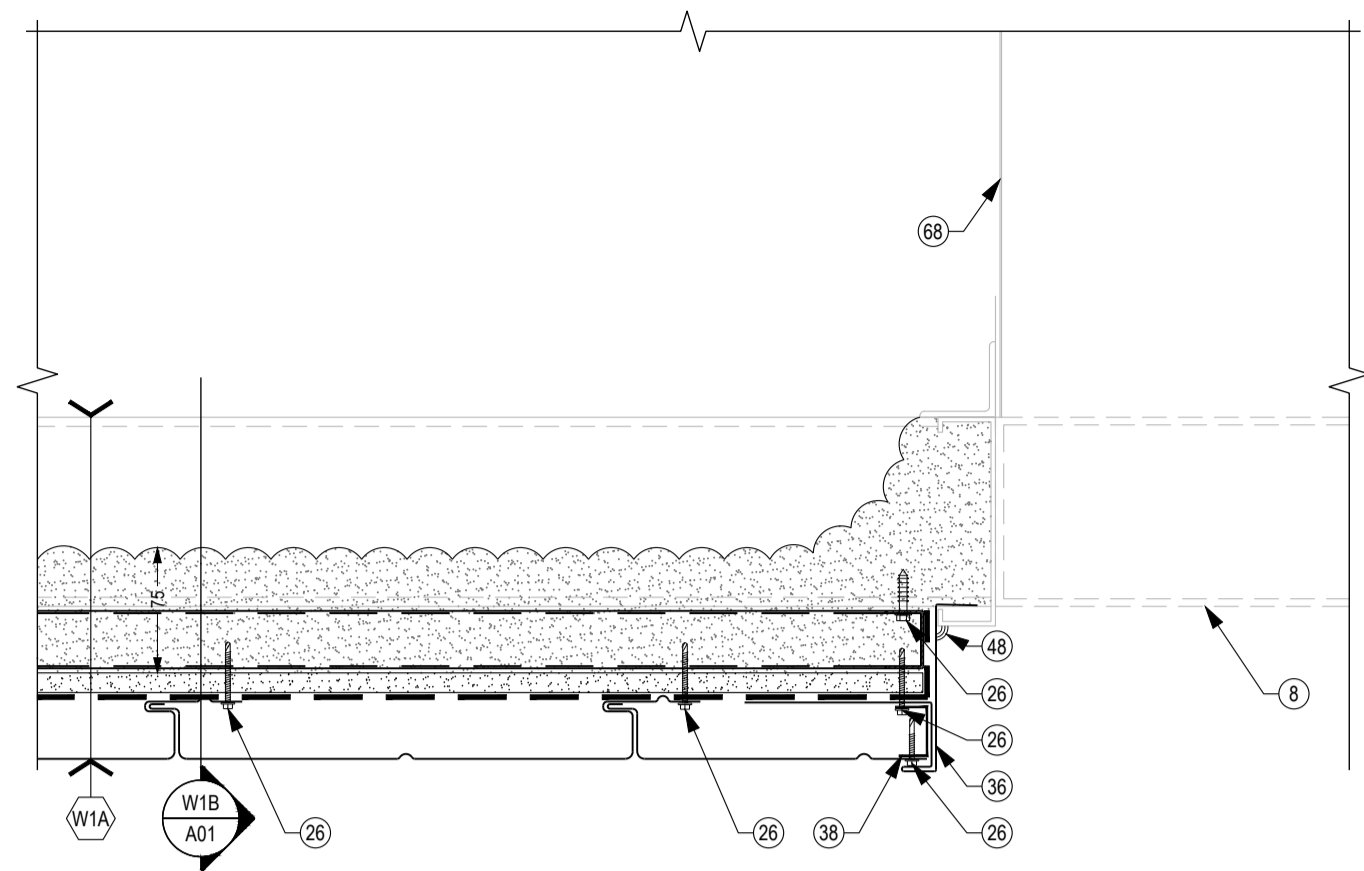
drawing / dessin  
**DETAILS**

designed / conçu	G.C.	date	19-02-2020
drawn / dessiné	G.C.	scale / échelle	SHOWN / INDIQUÉE
checked / vérifié	R.S.	sheet / feuille	13 of / de 14
approved / approuvé	J.L. / J.C.W.	W.D.no. / D.T.no.	A1-011227-20

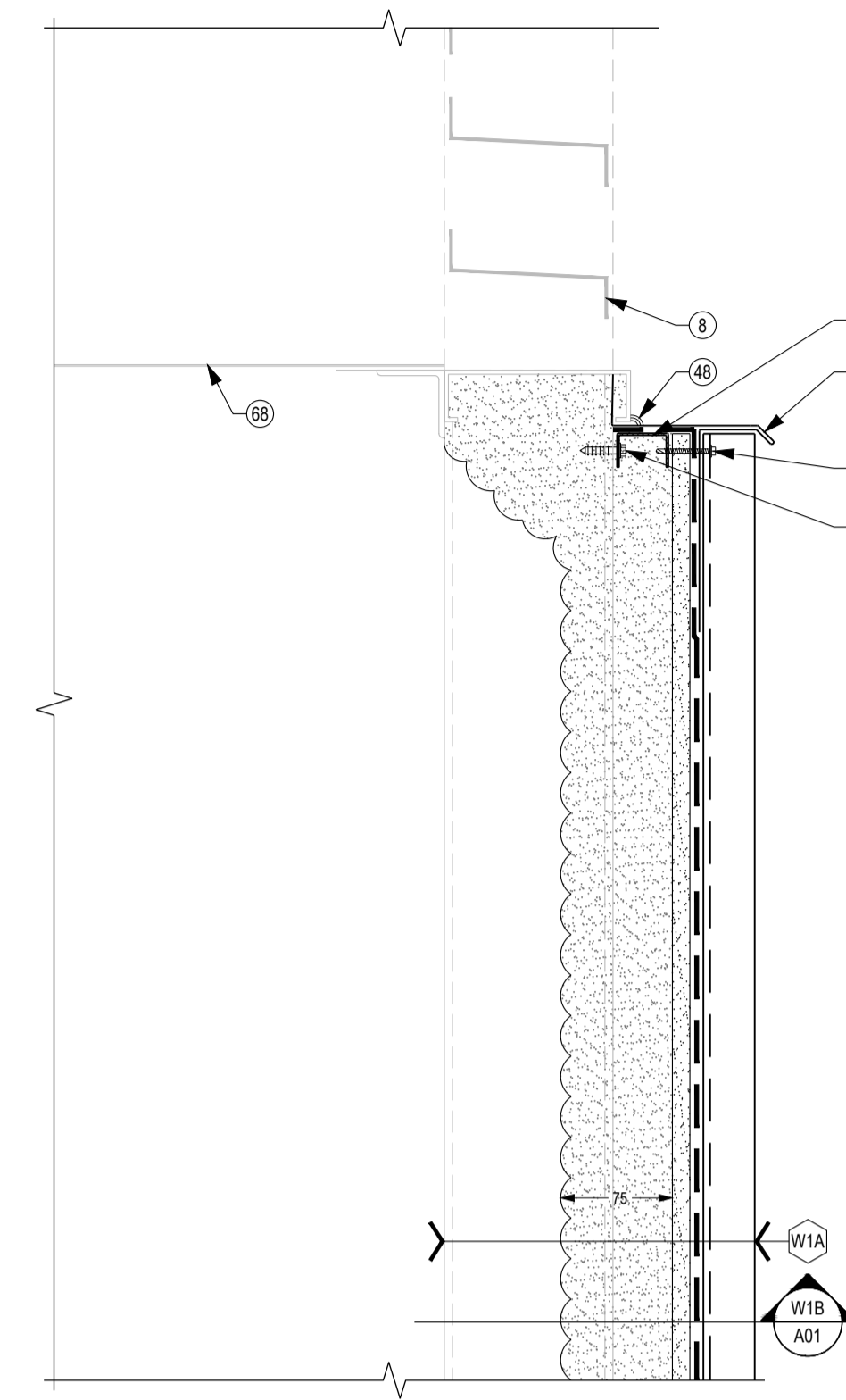
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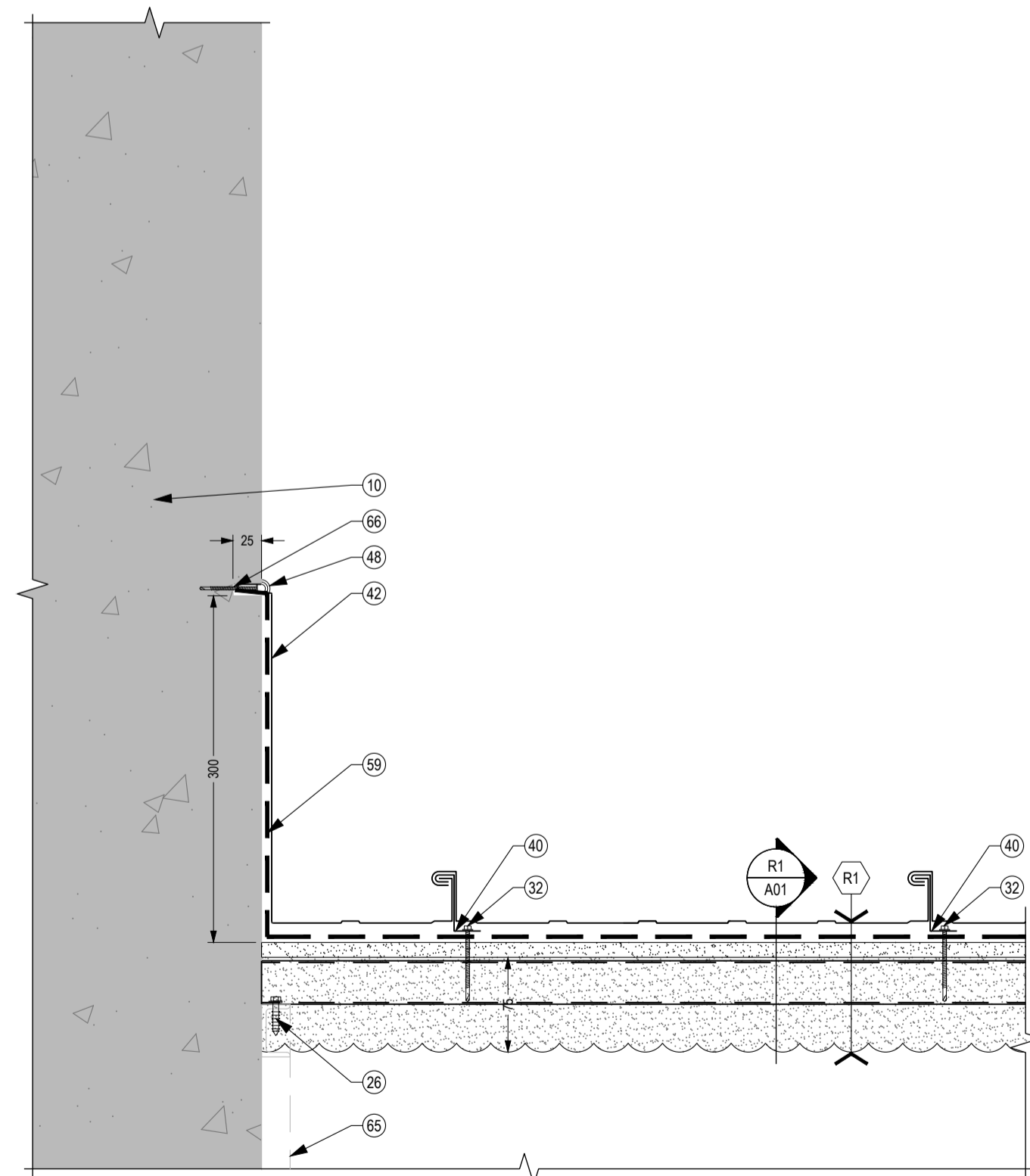
35 LOUVRE HEAD  
 A12 1:5 SECTION VIEW



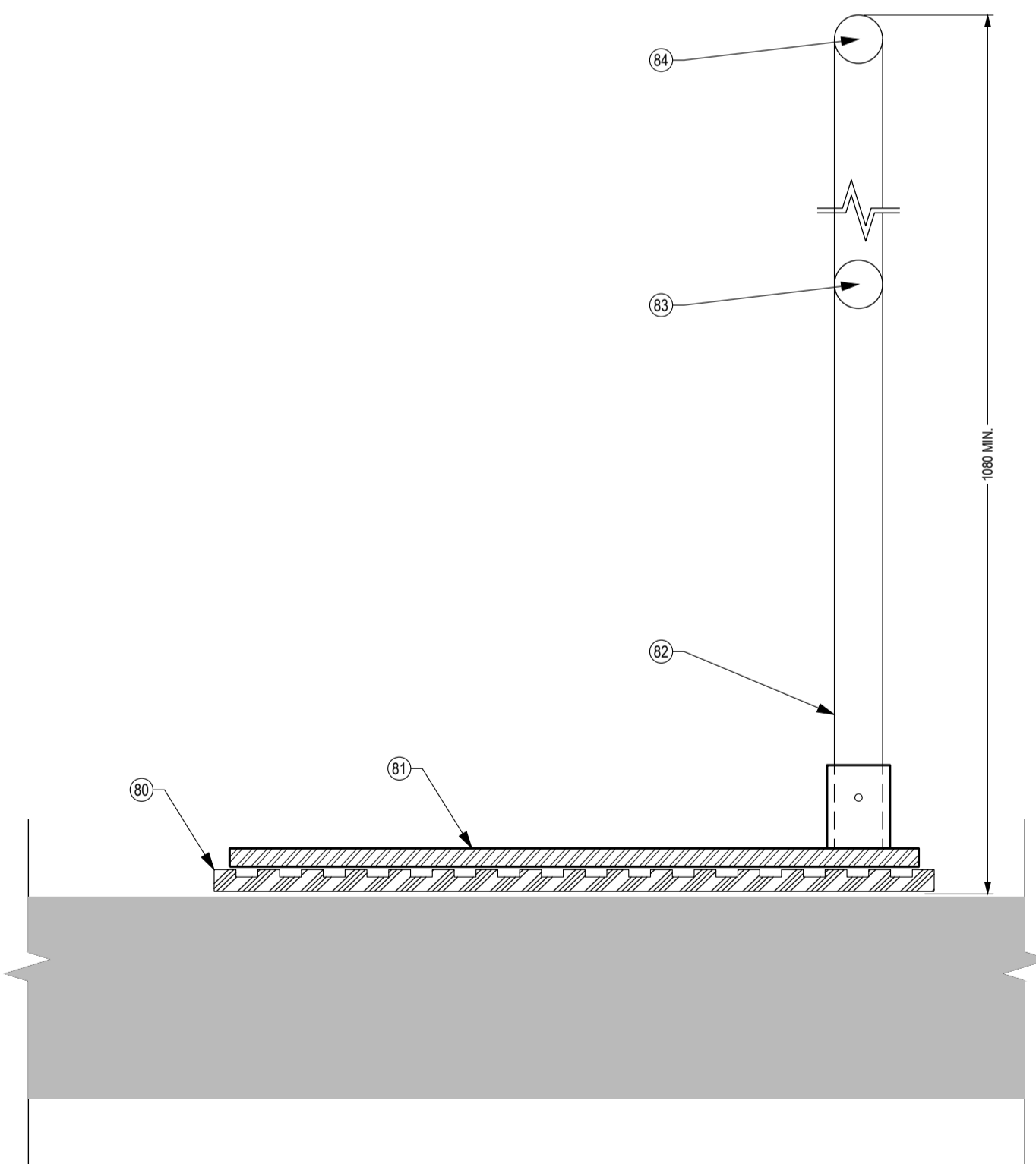
36 LOUVRE JAMB  
 A12 1:5 PLAN VIEW



37 LOUVRE SILL  
 A12 1:5 SECTION VIEW



38 LATERAL ROOF TIE-IN TO CONCRETE  
 A12 1:5 SECTION VIEW



39 GUARDRAIL  
 A12 1:5

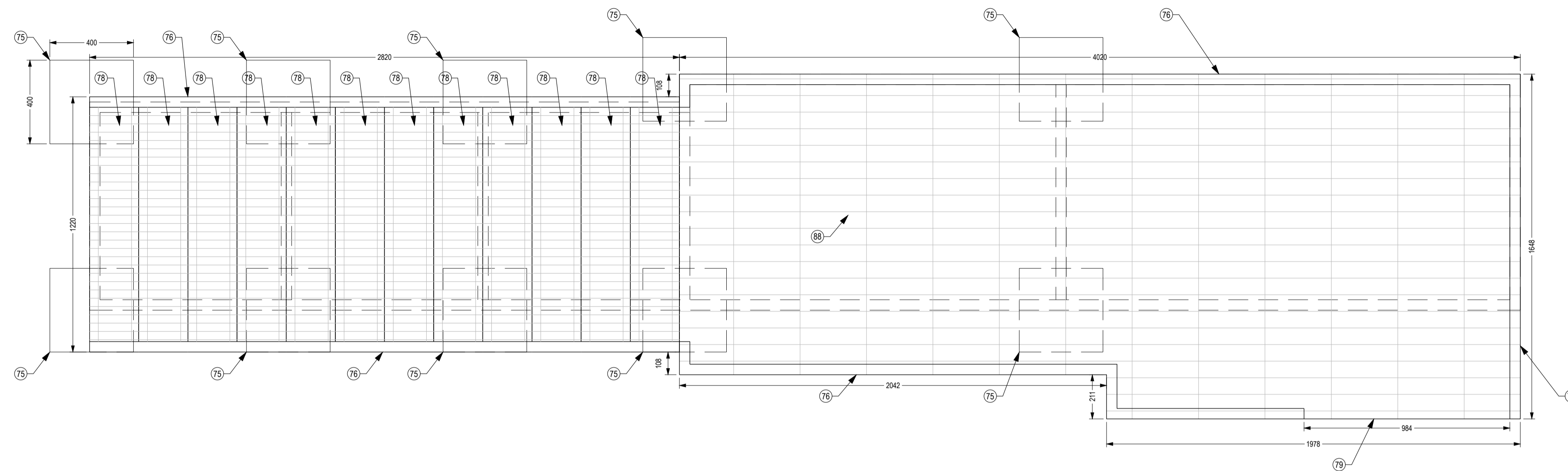
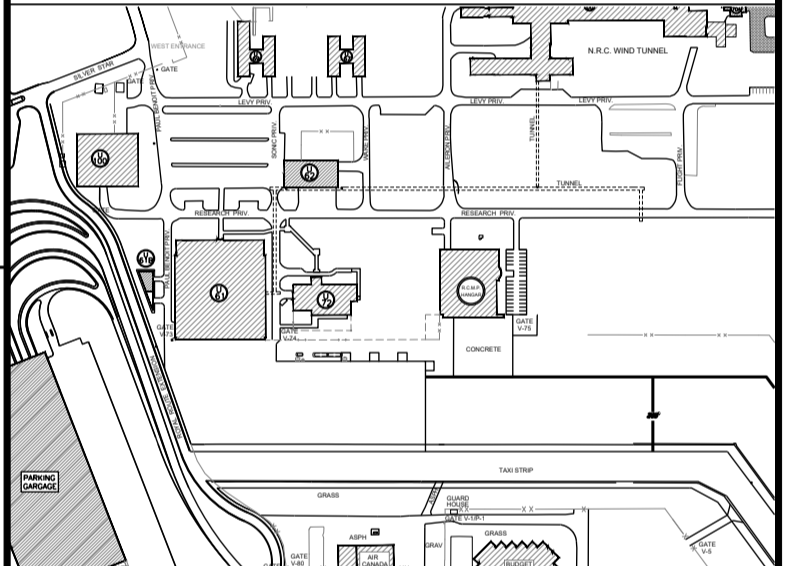


GENERAL NOTES

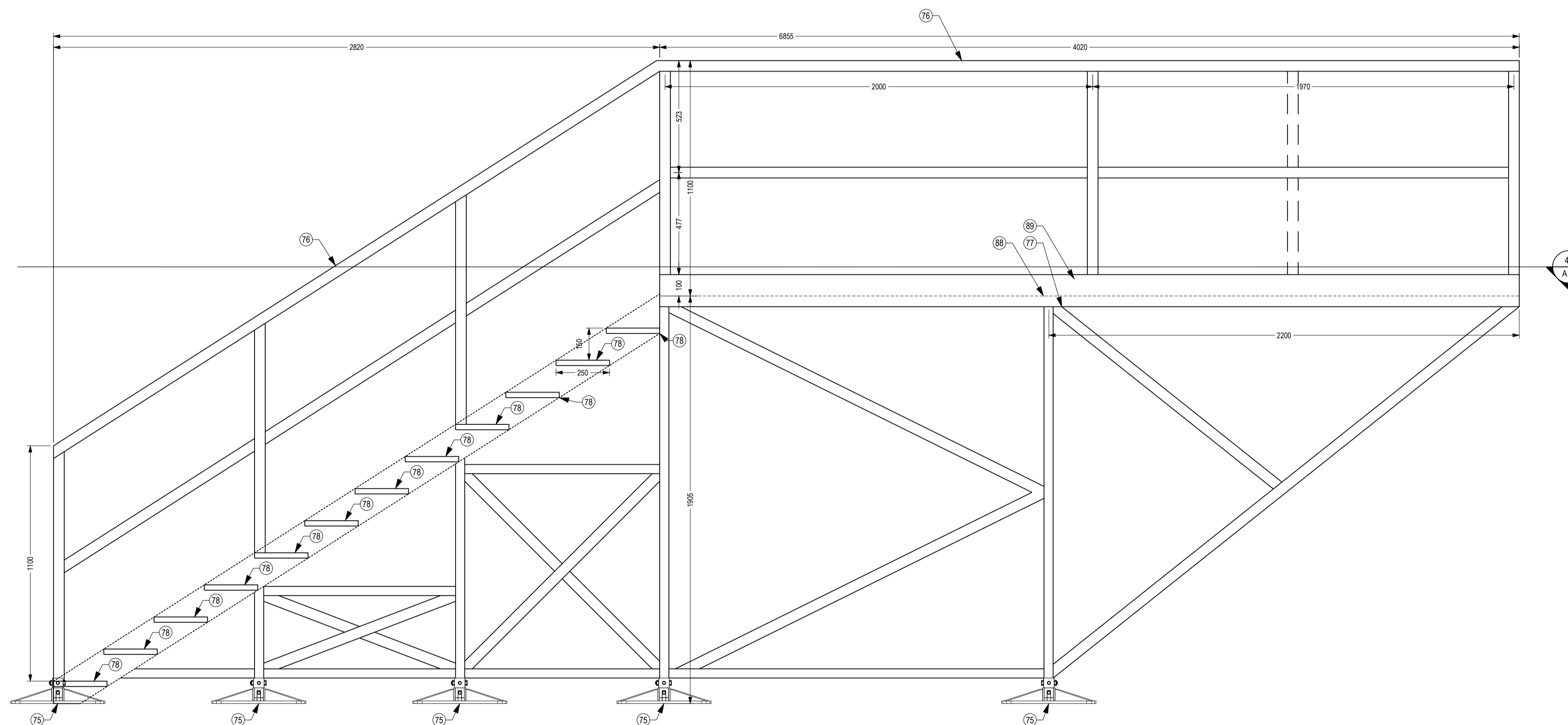
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- AS PER THE ORIGINAL AS-BUILT DRAWINGS, ANY WOOD ENCOUNTERED MAY CONTAIN CREOSOTE AND REMOVAL WOULD REQUIRE WASTE MANAGEMENT PROCEDURES.



KEY PLAN PLAN CLÉ



40 TYPICAL SUSPENDED ACCESS PLATFORM PLAN  
 A13 1:15 PLAN VIEW



41 TYPICAL SUSPENDED ACCESS PLATFORM ELEVATION  
 A13 1:15 ELEVATION VIEW

No.	Date	Revision	By: Parr.
7			
6	15-12-2020	FOR ADDENDUM 2	G.C.
5	16-10-2020	FOR TENDER	G.C.
4	05-06-2020	100% - AIRPORT AUTHORITY APPROVAL	G.C.
3	29-04-2020	FOR 99% REVIEW	G.C.
2	19-02-2020	FOR 90% REVIEW	G.C.
1	20-11-2019	FOR 66% REVIEW	G.C.

Date Printed DD MM YYYY Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project U-61 EXTERIOR UPGRADES OF UPPER TARMAC CLADDING COMPLETE WITH FIREPROOFING ABATEMENT

project BUILDING U-61, UPLANDS CAMPUS

drawing SUSPENDED PLATFORM PLAN AND ELEVATION

designed G.C.	conçu	date 19-02-2020	date
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drawn G.C.	dessiné	scale SHOWN / INDIQUÉE	échelle
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checked R.S.	vérifié	sheet 14 of/de 14	feuille
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approved J.L. / J.C.W.	approuvé	W.D.no. A1-011227-20	D.T.no.
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dwg.no. 5698-A13 dessin no.

ACAD file: 5698-A13 fichier CDAO:

**APPENDIX 1**



**Photograph 1:** Door track and chain system as viewed from opening created at roof level (reference Drawing A1-011227-20, Sheet 5). Photograph taken at west roof level, between dome and concrete door pocket area, looking east. Note spray-applied fireproofing on sloped transite siding (at right of image) and spray-on fireproofing debris among door chain and track system.



**Photograph 2:** Door track and chain system as viewed from opening created at roof level (reference drawing A1-011227-20). Photograph taken at west roof level, between dome and concrete door pocket area, looking west into door pocket void. Note the lack of spray-applied fireproofing on concrete walls and the non-asbestos insulation applied to the wall. Chain, mechanical tracks, and associated mechanical equipment considered contaminated with asbestos and require decontamination under asbestos precautions. Also note, solid “floor” ends shortly beyond support post, with majority of track system open to the door pocket area beneath.



**Photograph 3:** Door track and chain system above hanger doors and beneath dome (west of gridline 4 as per Drawings A1-011227-20). Note the spray-applied fireproofing debris. Chain, mechanical tracks, and associated mechanical equipment considered contaminated with asbestos and require decontamination under asbestos precautions.