

*The following changes in the Tender Documents are effective IMMEDIATELY.
This addendum will form part of the Contract Documents*

Amend/revise the Standard Contract Documents as follows:

1.0 CHANGES AND CLARIFICATIONS

SPECIFICATIONS

1.1 00 01 10 TABLE OF CONTENTS AND LIST OF DRAWINGS

LIST OF DRAWINGS, SCHEDULES AND DETAILS

DELETE General Arrangement Drawings (24" x 36"), Issued for Tender, August 19, 2016 and REPLACE with General Arrangement Drawings (24" x 36"), Re-Issued for Addendum No.1, September 19, 2016: BE0.0 Cover Sheet, BE1.0 Aerial Site Plan, BE1.1 Building Roof Plans, BE1.2 Building Images, BE1.3 Schedule and Details, BE1.4 Details, BE1.5 Details, BE1.6 Details, BE1.7 Details.

DELETE Assemble Schedules (8.5" x 11"): sheets SCH-0.00 to SCH-0.03.

DELETE D-4.00 Roofs (8.5" x 11"): sheets D-4.01 to D-4.04, D-4.10 to D-4.14, D-4.20 to D-4.22, D-4.30 to D-4.34, D-4.40 to D-4.42.

DELETE D-9.00 Latrine Building Roof (8.5" x 11"): sheets D-9.01 to D-9.04.

1.2 00 01 10 TABLE OF CONTENTS AND LIST OF DRAWINGS

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

DELETE 07 31 26 SLATE ROOFING

1.3 01 11 55 GENERAL INSTRUCTIONS

1.1 WORK DESCRIBED BY CONTRACT DOCUMENTS

DELETE Sentence .2.10 "Sloped roof replacement at the Warrant Officer's Quarters (WOQ, Building #4) and items 1.1.2.10.1 to 1.1.2.10.5. Renumber following sentences accordingly.

1.4 07 31 29 CEDAR SHINGLES

1.3 SAMPLES

REVISE sentence .2 to ADD "Cedar shingle samples are to include semi-transparent stain as outlined in 2.1 Materials."

1.5 07 31 29 CEDAR SHINGLES

2.1 MATERIALS

REVISE sentence .4 to DELETE “solid stain” and replace with “semi-transparent stain” and ADD “All surfaces of cedar shingles are to be coated with specified stain. Contractor is to provide samples for review of the colour match by the Consultant. Contractor to allow for a minimum of 4 samples.”

1.6 09 91 00 PAINTING

2.5 PAINTING AND FINISH SCHEDULE

REVISE sentence .4 to DELETE “EXT 6.6C Solid Colour Stain” and REPLACE with “EXT 6.6F Semi-Transparent Stain”.

DELETE “Full Prime MPI 5 Alkyd / Oil Primer”

REVISE 1st Coat to DELETE “MPI 14” and REPLACE with “MPI 13”. DELETE “Solid Stain” and REPLACE with “Semi-Transparent Stain”.

REVISE 2nd Coat to DELETE “MPI 14” and REPLACE with “MPI 13”. DELETE “Solid Stain” and REPLACE with “Semi-Transparent Stain”.

DRAWINGS

GENERAL ARRANGEMENT DRAWINGS (24” x 36”) BE0.0 to BE1.3

1.7 **DELETE** General Arrangement Drawings (24” x 36”), Issued for Tender, August 19, 2016:

BE0.0 Cover Sheet

BE1.0 Aerial Site Plan

BE1.1 Building Roof Plans

BE1.2 Building Images

BE1.3 Building Images

and **REPLACE** with General Arrangement Drawings (24” x 36”), Re-Issued for Addendum No.1, September 19, 2016:

BE0.0 Cover Sheet

BE1.0 Aerial Site Plan

BE1.1 Building Roof Plans

Roof Replacements

Project No.: R.081107.001

2016-09-20

BE1.2 Building Images

BE1.3 Schedule and Details

BE1.4 Details

BE1.5 Details

BE1.6 Details

BE1.7 Details

1.8 **DELETE** Assemble Schedules (8.5" x 11"):

SCH-0.00 Detail Drawings & Schedules List

SCH-0.01 Assembly Schedule

SCH-0.02 Assembly Schedule

SCH-0.03 Assembly Schedule

DELETE D-4.00 Roofs (8.5" x 11"):

D-4.01 Typical Eave at Asphalt Shingles

D-4.02 Typical Gable at Asphalt Shingles

D-4.03 Typical Ridge at Asphalt Shingles

D-4.04 Typical Valley at Asphalt Shingles

D-4.10 Typical Eave at Slate Roof

D-4.11 Typical Gable at Slate Roof

D-4.12 Typical Ridge at Slate Roof

D-4.13 Typical Slate Roof Interface at Concrete Coping

D-4.14 Typical Slate Roof Interface at Brick Wall

D-4.20 Typical Eave at Cedar Shingles

D-4.21 Typical Gable at Cedar Shingles

D-4.22 Typical Ridge at Cedar Shingles

D-4.30 Typical Eave at Metal Roof

D-4.31 Typical Gable at Metal Roof

D-4.32 Metal Roof Ridge

D-4.33 Metal Roof Peak at Top of Wall

D-4.34 Metal Roof to Wall Interface

D-4.40 Typical Skylight Head at Metal Roof

D-4.41 Typical Skylight Sill at Metal Roof

D-4.42 Typical Skylight Jamb at Metal Roof

DELETE D-9.00 Latrine Building Roof (8.5" x 11"):

D-9.01 Latrine Building Roof Section

- D-9.02 Latrine Building Lower Eave (East Side)
- D-9.03 Latrine Building Lower Eave (West Side)
- D-9.04 Latrine Building Gable

2.0 RESPONSE TO CONTRACTOR QUERIES:

Q#1: For the exterior painting of the Welcome Kiosk (Building #11), is the contractor responsible for removing the interp panels, electrical conduits etc to paint behind or paint around them?

A#1: Contractor price to allow for temporary disconnection, storage and/or relocation of interp panels, electrical conduits, and other accessories in order to paint the wall areas behind. Interp panels, electrical conduits and other accessories that are temporarily disconnected to facilitate the work are to be reinstalled following the completion of the work.

END OF ADDENDUM No. 1

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Appendix 1

Stantec Consulting Ltd.- Hazardous Building Materials Assessment, Issued January 2013. 297

Appendix 2

Government of Canada – Federal Infrastructure Investments program Signage guidelines,
Issued May 2016. 11

List of Drawings, Schedules and Details (Prepared by RDH Building Science Inc., Re-Issued for Addendum No.1, September 19, 2016)

General Arrangement Drawings (24" x 36")

BE0.0 Cover Sheet

BE1.0 Aerial Site Plan

BE1.1 Building Roof Plans

BE1.2 Building Images

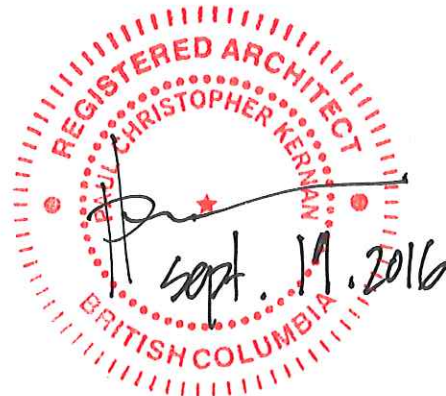
BE1.3 Schedule and Details

BE1.4 Details

BE1.5 Details

BE1.6 Details

BE1.7 Details



1 GENERAL

1.1 WORK DESCRIBED BY CONTRACT DOCUMENTS

- .1 The work of the Contract comprises of the roof replacement, localized gutter replacement and localized repainting of various building at the Fort Rodd Hill National Historic Site, Victoria, BC.
- .2 Work to be performed under this Contract includes the following items covered further in the Contract documents:
 - .1 Temporary hoarding: All work areas (individual buildings) are to be protected with hoarding. Owner requires minimum height of 1800mm (6 feet) for temporary hoarding around individual buildings. Contractor's hoarding is to be erected in a manner to maintain access to all buildings.
 - .1 No more than 4 buildings are to be enclosed in temporary hoarding and/or weather protection at one time. Refer to section 1.3 – Contractor's Use of the Site and Work Restrictions.
 - .2 Temporary facilities: Contractor is to provide site office, site storage of materials, temporary toilets. Contractor may locate temporary facilities in parking lot of the Fort Rodd Hill site.
 - .3 Review of testing reports provided with the Contract documents. Based on the findings of the testing reports: Contractor to determine if hazardous materials abatement is required.
 - .4 Documentation of existing conditions of roof assemblies at each stage of work. Contractor to verify if existing roofing felt is installed below existing roofing materials.
 - .5 Maintaining the existing configuration of insulation and ventilation at each roof assembly. Insulation and ventilation are not to be altered except where noted.
 - .6 Full removal of existing coatings and repainting of fascia boards and roof trim boards at buildings #2, #3, #4, #5, #6, #10, #11, as indicated below. Refer to detail drawings.
 - .7 Replacing typical roofing materials and associated accessories in kind. Colours of new roofing materials and associated accessories are to match the existing colours. Refer to individual items below for a description of work for individual buildings.
 - .8 **Sloped roof replacement of the Staff Housing – Carriage House (Building #2):**
 - .1 Removal of existing asphalt shingles on sloped roof to expose existing 1x8 wood solid sheathing (Note: pricing to allow for 5% replacement of deteriorated 1x8 wood solid sheathing).
 - .2 Installation of new R1 asphalt shingle roof assembly. Install new laminate 3-tab shingles, colour to match existing red shingles. Refer to 07 31 13 – Asphalt Shingles.

- .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings and drip flashings. Colour to match existing.
- .4 Repainting of wood elements. Repainting work includes but is not limited to: wood fascia boards at roof gables and eaves:
 - .1 Removal of existing coatings from painted wood elements.
 - .2 Repainting of wood elements, colour to match existing.
- .5 Replacement of existing gutter and rainwater leaders:
 - .1 Removal and disposal of existing gutters and rainwater leaders.
 - .2 Supply and installation of new pre-coated steel 23 Ga reinforced half-round gutter complete with gasket seal at every gutter to gutter connection and corner to gutter connection. Refer to section 07 62 00.
- .6 Replacement of existing stucco cladding at masonry chimneys. New stucco is to match existing stucco in colour and texture. Refer to 09 24 23 – Stucco.
- .9 Sloped roof replacement of the Collections Building (Building #3):**
 - .1 Removal of existing asphalt shingles on sloped roof to expose existing 1x6 wood spaced sheathing (Note: pricing to allow for 5% replacement of deteriorated 1x6 wood spaced sheathing).
 - .2 Installation of new R1 asphalt shingle roof assembly. Install new laminate 3-tab shingles, use manufacturer standard colour, red to match existing. Refer to 07 31 13 – Asphalt Shingles.
 - .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings and drip flashings. Colour to match existing.
 - .4 Replacement of existing gutter and rainwater leaders:
 - .1 Removal and disposal of existing gutters and rainwater leaders.
 - .2 Supply and installation of new pre-coated 23Ga reinforced sheet steel gutters and rainwater leaders complete with gasketed joints, half-round gutter and rainwater leader complete with funnel type drain head and clamp ring stand-offs. Colour as directed by the consultant, to match existing half-round gutters at Fort Rodd Hill site. Refer to section 07 62 00.
- ~~**.10 Sloped roof replacement of the Warrant Officer's Quarters (WOQ, Building #4):**~~
 - ~~.1 Prior to commencement of work at the Warrant Officer's Quarters building, existing conditions and detailing of the~~

~~roof are to be documented. Documentation is to continue through the roof repair process. Roof is to be documented using written, visual and physical evidence in order to identify and preserve existing features. Provide layout drawing of existing slates and shop drawings for new slates in accordance with 01 33 00 – Submittal Procedures.~~

- ~~.2 Removal of existing slate roofing on sloped roof to expose existing 2x8 wood solid sheathing. (Note: pricing to allow for 5% replacement of deteriorated 2x8 wood solid sheathing).~~
- ~~.3 Installation of new R2 slate roof assembly. Field verify size and exposure of existing slate roofing. Size, shape, colour, texture, exposure and coursing of the original slate is to be documented and matched. The existing headlap is to be maintained. Detailing at the ridge is to match the existing detailing.~~
- ~~.4 Replacement of roof insulation. Remove existing roof insulation in attic space. Replace with new batt insulation. Contractor to review testing reports provided and determine if hazardous materials abatement is necessary.~~
- ~~.5 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings, ridge flashings and drip flashings. Colour to match existing.~~

.10 ~~14~~Sloped roof replacement of WW2 Hut Washroom Building (Building #5):

- .1 Removal of existing cedar shingles on sloped roof to expose existing 2x8 wood solid sheathing. (Note: pricing to allow for 5% replacement of deteriorated 2x8 wood solid sheathing).
- .2 Installation of new R3 cedar shingle roof assembly. New shingles are to match size and exposure of existing cedar shingles.
- .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings and drip flashings. Use manufacturer standard colour to match existing.
- .4 Replacement of existing gutter and rainwater leaders:
 - .1 Removal and disposal of existing gutters and rainwater leaders.
 - .2 Supply and installation of new pre-coated 23Ga reinforced sheet steel gutters and rainwater leaders complete with gasketed joints, half-round gutter and rainwater leader complete with funnel type drain head and clamp ring stand-offs. Colour as directed by the consultant, to match existing half-round gutters at Fort Rodd Hill site. Refer to section 07 62 00.

.11 ~~.42~~Sloped roof replacement of Canteen Veranda (Building #6):

- .1 Removal of existing cedar shingles on sloped roof to expose existing 1x6 wood sheathing. (Note: pricing to allow for 5% replacement of deteriorated 1x6 wood sheathing).
- .2 Installation of new R3 cedar shingle roof assembly. New shingles are to match size and exposure of existing cedar shingles. Finish cedar shingles with stain in accordance with 09 91 00 – Painting. Use custom colour to match existing red painted cedar shingles.
- .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings, ridge flashings and drip flashings.

.12 ~~.43~~New roof assembly for the Latrine Building (Building #9):

- .1 Construction of new wood-framed roof assembly with solid wood sheathing. Wood framed components are to be pressure treated, and finished with a solid stain, refer to 09 91 00 – Painting. Colour of stain to match Canteen Veranda painted framing (Building #6).
- .2 Installation of new R3 cedar shingle roof assembly. New shingles are to match size and exposure of the Canteen Veranda (Building #6). Finish cedar shingles with stain in accordance with 09 91 00 – Painting. Use custom colour to match existing red painted cedar shingles.
- .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings, ridge flashings and drip flashings.

.13 ~~.44~~Sloped roof replacement of Washroom Building (Building #10):

- .1 Removal of existing shingles on sloped roof to expose existing sheathing. (Note: pricing to allow for 5% replacement of deteriorated wood sheathing).
- .2 Installation of new R4 standing-seam metal roof assembly. Includes but is not limited to: standing seam metal roof complete with attachment clips, ventilation mat, galvanized metal z-girts, rigid insulation and self-adhesive waterproof membrane. Colour to match existing red roofs at Fort Rodd Hill site.
- .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings, ridge flashings and drip flashings. Colour to match existing flashings.
- .4 Repainting of building exterior. Repainting work includes but is not limited to: stucco cladding, wood siding, privacy screens, fascia boards, barge boards and trim boards.

- .1 Removal of existing coatings from painted wood elements.
 - .2 Repainting of wood elements.
 - .3 Repainting of stucco clad wall assemblies.
 - .5 Replacement of existing gutter and rainwater leaders:
 - .1 Removal and disposal of existing gutters and rainwater leaders.
 - .2 Supply and installation of new pre-coated 23Ga reinforced sheet steel gutters and rainwater leaders complete with gasketed joints, half-round gutter and rainwater leader complete with funnel type drain head and clamp ring stand-offs. Colour as directed by the consultant, to match existing half-round gutters at Fort Rodd Hill site. Refer to section 07 62 00.
- .14 ~~.15~~ Sloped roof replacement of Entrance Kiosk (Building #11):**
- .1 Removal of existing shingles on sloped roof to expose existing 2x8 wood solid sheathing. (Note: pricing to allow for 5% replacement of deteriorated 2x8 wood solid sheathing).
 - .2 Installation of new R4 standing-seam metal roof assembly. Includes but is not limited to: standing seam metal roof complete with attachment clips, ventilation mat, galvanized metal z-girts, rigid insulation and self-adhesive waterproof membrane. Colour to match existing red roofs at Fort Rodd Hill site.
 - .3 Installation of prefinished metal flashings where indicated in construction details. Prefinished metal flashings include, but are not limited to: diverter flashings, step flashings, apron flashings, valley flashings, ridge flashings and drip flashings. Colour to match existing flashings.
 - .4 Repainting of building exterior. Repainting work includes but is not limited to: stucco cladding, fascia boards, barge boards and trim boards. Colours to match existing.
 - .1 Removal of existing coatings from painted wood elements.
 - .2 Repainting of wood elements.
 - .3 Repainting of stucco clad wall assemblies.
 - .5 Replacement of existing gutter and rainwater leaders:
 - .1 Removal and disposal of existing gutters and rainwater leaders.
 - .2 Supply and installation of new pre-coated 23Ga reinforced sheet steel gutters and rainwater leaders complete with gasketed joints, half-round gutter and rainwater leader complete with funnel type drain head and clamp ring stand-offs. Colour as directed by the consultant, to match existing half-round gutters at Fort Rodd Hill site. Refer to section 07 62 00.
- .15 ~~.16~~ Installation of Federal Infrastructure Investment signage:**

- .1 Supply and installation of one federal infrastructure investment sign in conformance with style guide in Appendix 2.
- .2 Location to be determined by Parks Canada.

1.2 TIME OF COMPLETION

- .1 The work of this contract is to be completed within twenty (20) weeks of contract award.

1.3 CONTRACTOR'S USE OF THE SITE AND WORK RESTRICTIONS

- .1 Use of Site:
 - .1 The Fort Rodd Hill is a recognized federal historic site. The Fort Rodd Hill historic site is an operational site. All activities and security controls must remain operational at all times unless otherwise indicated. Coordinate with the Departmental Representative for all activities that impact on-going operations.
 - .2 Work is to be executed with least possible interference or disturbance to the normal use of the Fort Rodd Hill site. Refer to 01 14 00 – Work Restrictions.
 - .3 Work restrictions and security provisions will be enforced.
 - .4 Assume responsibility for assigned premises for laydown and storage areas as established at the project start-up meeting and for performance of this work.
 - .5 There will be other Contractors on-site for a separate (not included in this Contract) project at the “Lower Battery” portion of the site.
- .2 Do not unreasonably encumber site with material or equipment.
- .3 Maintain temporary hoarding and weather protection throughout duration of work.
 - .1 No more than 4 buildings are to be enclosed in temporary hoarding and/or weather protection at one time, unless written approval by Departmental Representative is provided. Temporary hoarding and/or weather protection is to be completely dismantled at a work zone before proceeding to erecting hoarding and/or weather protection at the next work zone.
 - .2 Contractor to develop a sequencing plan for review by the Departmental Representative.
- .4 Execute work with least possible interference or disturbance to normal use. Make arrangements with Departmental Representative to facilitate work as stated.
- .5 Maintain existing services and provide for personnel, visitor and vehicle access.
- .6 Where security is reduced by work, provide temporary means to maintain security. Review measures with Departmental Representative before proceeding.
- .7 Hours of Work:

- .1 Carry out work during “regular hours”, 7:00am to 8:00pm PST, Monday to Friday, and 8:00am to 6:00pm on Saturdays, Sundays and statutory holidays.
- .2 Delivery of materials is not permitted on Saturdays, Sundays and statutory holidays.
- .8 Special Requirements:
 - .1 Delivery and removal of construction bins to occur between 8:00am and 10:00am but is not permitted on Saturdays, Sundays and statutory holidays.
- .9 Special Events:
 - .1 Allow for interruptions of the Work by special events. These interruptions could be, but not limited to:
 - .1 December 25, 2016 – Christmas
 - .2 December 26, 2016 – Boxing Day
 - .3 January 1, 2017 – New Year’s Day
 - .4 April 9, 2017 – Vimy Barrage Event

1.4 MINIMUM STANDARDS

- .1 Work to conform to the minimum applicable standards of the Canadian General Standards Board, the Canadian Standards Association, the National Building Code of Canada 2010 (NBC) and applicable Provincial and Municipal codes. In the case of conflict or discrepancy, the most stringent requirement applies.
- .2 Work must be carried out in conformance to WorkSafe BC safety standards and requirements.
- .3 Meet or exceed requirements of Contract documents, specified standards, codes and referenced documents.

1.5 CONTRACT DOCUMENTS

- .1 The Contract documents, drawings and specifications are intended to complement each other, and to provide for and include everything necessary for the completion of the work.
- .2 Drawings are, in general, diagrammatic and are intended to indicate the scope and general arrangement of the work. Drawings have been prepared in colour for clarity purposes and are intended to be printed in colour. Contractor is responsible for any misinterpretations caused as a result of printing in black and white.

1.6 DIVISION OF SPECIFICATIONS

- .1 The specifications are subdivided in accordance with the current 6-digit National Master Specifications System.
- .2 A division may consist of the work of more than one subcontractor. Responsibility for determining which subcontractor provides the labour, material, equipment and services required to complete the work rests solely with the Contractor.
- .3 In the event of discrepancies or conflicts when interpreting the drawings and specifications, the specifications govern.

1.7 TAXES

- .1 Pay all taxes properly levied by law (including Federal, Provincial and Municipal).

1.8 REGULATORY REQUIREMENTS

- .1 Building Permit is not required. Obtain and pay for - Certificates, Licenses and other permits required by regulatory municipal, provincial or federal authorities to complete the work.
- .2 Provide inspection authorities with plans and information required for issue of acceptance certificates.
- .3 Furnish inspection certificates in evidence that the work installed conforms with the requirements of the authority having jurisdiction.

1.9 PROJECT MEETINGS

- .1 Within ten (10) days after award of Contract, the Contractor will schedule a project start-up meeting in accordance with 01 31 19 – Project Meetings.
 - .1 Contractor is to provide the agenda for the project start-up meeting. Refer to 01 31 19 – Project Meetings for start-up meeting agenda items.
 - .2 Subsequent meetings will be held in conformance with 01 31 19 – Project Meetings.

1.10 SECURITY

- .1 For Contractor access to building interior and for contractor access to exterior work after 17:30 hours, coordinate with and pay for the services of a commissionaire from the BC Commissionaires from the time of beginning work on site until substantial completion of the work. The contractor shall provide the Departmental Representative with an estimate of the total cost for that requirement after contract award at which time the Departmental Representative will then contract directly with Commissionaires BC for that work and pay for those costs directly accordingly since they will not work directly for the contractor. Upon completion of the contract work, a change order credit will be issued for the full cost of the Commissionaires so the contractor shall allow for that cost in their contract pricing. Contractor can refer to the following web site as a reference: <http://www.commissionaires.bc.ca>
- .2 Provide required service for any security to contractor's forces for further works to be done between substantial and final completion.

1.11 NON SMOKING ENVIRONMENT

- .1 Smoking is not permitted on site.

1.12 WORK SCHEDULE

- .1 Provide detailed project schedule (Gantt Bar Chart) within 5 working days of Award of Contract date showing activity

sequencing, interdependencies and duration estimates. Include listed activities as follows:

- .1 Shop drawings.
 - .2 Samples.
 - .3 Approvals.
 - .4 Procurement.
 - .5 Construction.
 - .6 Installation.
 - .7 Site works.
 - .8 Testing.
 - .9 Acceptance.
- .2 Do not change approved schedule without notifying and receiving approval from Departmental Representative.
 - .3 Interim reviews of work progress based on work schedule will be conducted as decided by Departmental Representative and schedule updated by Contractor in conjunction with and to approval of Departmental Representative.
 - .4 Schedule Work in consultation with Departmental Representative to minimize impact on public use of facility during operating hours.

1.13 SUBMITTALS

- .1 Product Data: Manufacturers catalogue sheets, brochures, literature, performance charts and diagrams.
 - .1 Submit electronic copies of documentation.
 - .2 Delete information not applicable to project.
 - .3 Cross-reference product data information to applicable portion of Contract Documents.
- .2 Samples: examples of materials, equipment, quality, finishes and workmanship.
 - .1 Provide two samples of each material as indicated in technical sections.
 - .2 Where colour, pattern or texture is criterion, submit full range of samples.
 - .3 Reviewed and accepted samples will become standard of workmanship and material against which installed work will be verified.
- .3 Shop Drawings:
 - .1 Submit electronic copies of all shop drawings to include:
 - .1 Date.
 - .2 Project Title and number.
 - .3 Name and address of Subcontractor, Supplier and Manufacturer.
 - .4 Fabrication.
 - .5 Key plan and layout, showing dimensions, including identified field dimensions and clearances.
 - .6 Setting or erection details.
 - .7 Relationship to adjacent work.

- .8 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
- .9 Revised shop drawing submissions to be bubbled identifying revisions.
- .4 Submit drawings stamped and signed by professional engineer registered and licensed in the Province of British Columbia as indicated.

1.14 COST BREAKDOWN

- .1 Before submitting the first progress claim, submit a breakdown of the Contract lump sum prices in detail as directed by the Departmental Representative and aggregating Contract price.

1.15 DOCUMENTS REQUIRED

- .1 Maintain at job site, one copy of each document as follows:
 - .1 Contract Drawings.
 - .2 Contract Specifications.
 - .3 Addenda to Contract Documents.
 - .4 Copy of approved work schedule.
 - .5 Environmental Protection Plan.
 - .6 Reviewed and approved Shop Drawings.
 - .7 List of Outstanding Shop Drawings.
 - .8 Change Orders.
 - .9 Other Modifications to Contract.
 - .10 Field Test Reports.
 - .11 Reviewed and approved samples.
 - .12 Copy of Approved Work Schedule.
 - .13 Manufacturer's installation and application instructions.
 - .14 National Building Code, 2010.
 - .15 Health and Safety Plan and Other Safety Related Documents.
 - .16 Other documents as specified.

1.16 HEALTH, SAFETY AND HAZARDOUS MATERIALS

- .1 Comply with Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2 Comply with British Columbia Workers Compensation Act.
- .3 Perform duties in accordance with the British Columbia Occupational Health and Safety Regulation.
- .4 Submit copies of WCB Clearance Letter and WCB Contractor Rating. Submit copy of Final WCB Clearance Letter at completion of project.

- .5 Submit letter stating that Contractor assumes the role of Prime Contractor for the purposes of site safety responsibility and the Workers Compensation Act.
- .6 Submit copies of work site health and safety meeting minutes, inspection reports, reports or directions issued by Federal, Provincial or Municipal health and safety inspectors, incident and accident reports, and follow-up reports.
- .7 Work at site may involve contact with lead-containing paint. Take appropriate precautions.
- .8 Notify the Departmental Representative 48 hours for access to interior work and advise if work involves hazardous substances (Canada Labour Code, Part II, Section 10) or caulking.
- .9 Ensure fire code requirements are continued to be met during the course of construction. Ensure emergency exits from the building, exterior emergency egress paths, or access areas for emergency vehicles are not restricted.

1.17 EXAMINATION

- .1 Examine site and be familiar and conversant with existing conditions likely to affect work.
- .2 Provide photographs of surrounding objects and structures liable to be damaged or be the subject of subsequent claims (photographs not to include staff on duty).

1.18 EXISTING SERVICES

- .1 Where work involves breaking into or connecting to existing services, carry out work at times directed by the authorities having jurisdiction.

1.19 LOCATION OF EQUIPMENT AND FIXTURES

- .1 Location of equipment indicated or specified are to be considered as approximate.
- .2 Locate equipment to provide minimum interference and maximum usable space, and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .3 Inform Departmental Representative of impending installation and obtain his approval for actual location.
- .4 Submit field drawings or shop drawings to indicate the relative position of various services and equipment when required by the Departmental Representative and/or as specified.

1.20 SETTING OUT OF WORK

- .1 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.
- .2 Provide devices needed to lay out and construct work.

1.21 ACCEPTANCE OF SUBSTRATES

- .1 Each trade shall examine surfaces prepared by others and job conditions which may affect his work, and shall report defects to the Contractor. Commencement of work shall imply acceptance of prepared work or substrate surfaces.

1.22 QUALITY OF WORK

- .1 Remedial Work:
 - .1 Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of work.
 - .2 Perform remedial work required to repair or replace part or portions of Work identified as defective or unacceptable. Coordinate adjacent affected Work as required.
- .2 Ensure that quality workmanship is performed through use of skilled and experienced tradesmen, under supervision of qualified journeyman.
- .3 The workmanship, erection methods and procedures to meet minimum standards set out in the National Building Code Construction Standards.
- .4 In cases of dispute, decisions as to standard or quality of work rest solely with the Departmental Representative whose decision is final.

1.23 WORKS COORDINATION

- .1 Coordinate work of subtrades:
 - .1 Designate one person to be responsible for review of contract documents and shop drawings and managing coordination of Work.
 - .2 Convene meetings between subcontractors whose work interfaces and ensure awareness of areas and extent of interface required.
 - .1 Provide each subcontractor with complete plans and specifications for Contract, to assist them in planning and carrying out their respective work.
 - .2 Develop coordination drawings when required, illustrating potential interference between work of various trades and distribute to affected parties.
 - .1 Pay particularly close attention to overhead work or near to building structural elements, including existing roof.
 - .2 Identify on coordination drawings, building elements and interface requirements.
 - .3 Facilitate meeting and review coordination drawings. Ensure subcontractors agree and sign off on drawings.
 - .4 Publish minutes of each meeting.
 - .5 Submit copy of coordination drawings and meeting minutes to Departmental Representative for information purposes.

- .3 Submit shop drawings and of rebuilt components only after coordination meeting for such items has taken place.
- .4 Work cooperation:
 - .1 Ensure cooperation between trades in order to facilitate general progress of Work and avoid situations of interference.
 - .2 Ensure that each trade provides all other trades reasonable opportunity for completion of Work and in such a way as to prevent unnecessary delays, patching and removal or replacement of completed work.
 - .3 Ensure disputes between subcontractors are resolved.
- .5 Departmental Representative is not responsible for, or accountable for extra costs incurred as a result of Contractor's failure to coordinate Work.
- .6 Maintain efficient and continuous supervision. Full-time site superintendent required throughout project.

1.24 APPROVAL OF SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- .1 In accordance with Section 01 33 00 - Submittals Procedures, submit the requested shop drawings, product data, MSDS sheets and samples indicated in each of the technical Sections.
- .2 Allow sufficient time for the following:
 - .1 Review of product data.
 - .2 Approval of shop drawings.
 - .3 Review of re-submission.
 - .4 Ordering of approved material and/or products - refer to technical sections.

1.25 TESTING AND INSPECTIONS

- .1 Particular requirements for inspection and testing to be carried out by testing service or laboratory approved by the Departmental Representative.
- .2 The Contractor will appoint and pay for the services of testing agency or testing laboratory as specified, and where required for the following:
 - .1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.
 - .2 Inspection and testing performed exclusively for Contractor's convenience.
 - .1 Mill tests and certificates of compliance.
 - .2 MPI Painting Inspections.
 - .3 Tests specified to be carried out by Contractor under the Departmental Representative's supervision.
- .3 Where tests or inspections by designated testing laboratory reveal work is not in accordance with the Contract requirements, Contractor shall pay costs for additional tests or inspections as the

Departmental Representative may require to verify acceptability of corrected work.

- .4 Contractor shall furnish labour and facilities to:
 - .1 Notify Departmental Representative in advance of planned testing.
- .5 Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.
- .6 Pay costs for uncovering and making good work that is covered before required inspection or testing is completed and approved by Departmental Representative.
- .7 The Departmental Representative may require, and pay for, additional inspection and testing services.
- .8 Provide Departmental Representative with 2 copies of testing laboratory reports as soon as they are available.

1.26 AS-BUILT DOCUMENTS

- .1 The Departmental Representative will provide 2 sets of drawings, 2 sets of specifications, for "as-built" purposes.
- .2 As work progresses, maintain accurate records to show all deviations from the Contract documents. Note on as-built specifications, drawings and shop drawings as changes occur.

1.27 CLEANING

- .1 Daily conduct cleaning and disposal operations. Comply with local ordinances and anti-pollution laws.
- .2 Ensure cleanup of the work areas each day after completion of work.
- .3 In preparation for interim and final inspections:
 - .1 Examine all sight-exposed exterior surfaced and concealed spaces.
 - .2 Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from sight-exposed exterior finished surfaces, including glass.
- .4 Use cleaning materials and methods in accordance with instructions of the manufacturer of the surface to be cleaned.

1.28 CONTROL

- .1 Existing Structure:
 - .1 The existing structure forms a National Historic Site. The Contractor and sub trade personnel shall pay utmost attention to the preservation of all existing items on this site at all times during remediation work. Prior to the commencement of this project, the Contractor shall submit to the Departmental Representative a list of all proposed protection measures for approval. This list must identify procedures for the protection of adjacent building materials and elements to prevent accidental damage to this national historic site for the duration of the project.

- .2 Provide temporary dust tight screens and/or partitions to localize dust generating activities, and for protection of workers, finished areas of work and public. Precautionary measure shall be taken for potential source of Lead and Arsenic dust within the complex. Refer to Appendix 1.
- .3 Protect work area with scaffolding structure for work with weather-tight polyethylene film during construction.
- .4 Maintain and relocate protection until work is complete.

1.29 PUBLIC WAY CONSTRUCTION

- .1 Design, erect and maintain hoarding and covered pedestrian walkways to support all loads including windloads and provide protection, complete with signs and electrical lighting as required by authority having jurisdiction and Departmental Representative.

1.30 RELICS AND ANTIQUITIES

- .1 Relics and antiquities and items of historical or scientific interest shall remain property of Department. Protect such articles and request directives from Departmental Representative.
- .2 Give immediate notice to Departmental Representative if evidence of historical or archeological finds are encountered during remediation work and await Departmental Representative's written instructions before proceeding with work in this area.

1.31 ENVIRONMENTAL PROTECTION

- .1 Contractor is responsible for environmental protection during all construction activities at all locations work is performed.
- .2 Environmental degradation arising from construction activities shall be prevented, abated, controlled and minimized by complying with all applicable federal, provincial and local laws and regulations concerning environmental pollution control and abatement.
- .3 Do not dispose of waste or volatile materials into water courses, storm or sanitary sewers. Construction methods shall be employed to ensure no fuels, oils, wood preservatives or other contaminants enter the site. As general Mitigation Measures for this project, it must be enforced and closely supervised and monitored as follows:
 - .1 All contractors and work crews must be briefed upon the importance of adhering to prescribed best practices or mitigation measures. Project meeting prior to commencement of the work shall indicate the above requirements have been fully explained to the contractor and staff.
 - .2 A copy of the mitigation measures shall be posted in a conspicuous location on site or readily accessible for reference.
 - .3 Conduct work in a manner which clearly separates visitors from the active construction area on site to minimize potential accidents for public safety.
 - .4 Contractor and sub trade personnel must develop and maintain spill response and reporting procedures including containment

methods. In the event of a spill, contact the Provincial Emergency Program at 1-800-663-3456.

- .5 The Contractor is to have personnel on site that are trained and ready to use spill containment kits. Ensure proper disposal procedures in accordance with all applicable provincial and municipal regulations. Fires and burning of rubbish on site is not permitted.
- .6 The Contractor must have all spill containment kits ready for immediate deployment, containing sufficient quantities of absorbent materials on site in close proximity to working machinery and equipment such as fuel portable generator, air compressors, hoist and tools.
- .7 Ensure all equipment used on site is clean and free from contaminants.
- .4 Ensure proper disposal procedures in accordance with all applicable provincial regulations.

**1.32 MAINTENANCE
MATERIALS,
SPECIAL TOOLS
AND SPARE PARTS**

- .1 Specific requirements for maintenance materials, tools and spare parts are specified in individual technical sections.

**1.33 ADDITIONAL
DRAWINGS**

- .1 The Departmental Representative may furnish additional drawings for clarification. These additional drawings have the same meaning and intent as if they were included with plans referred to in the Contract documents.
- .2 Upon request, Departmental Representative may furnish up to a maximum of 5 sets of Contract documents for use by the Contractor at no additional cost. Should more than 5 sets of documents be required the Departmental Representative will provide them at additional cost.

**1.34 SYSTEM OF
MEASUREMENT**

- .1 The metric system of measurement (SI) will be employed on this Contract.

**1.35 SUBMISSION OF
TENDER**

- .1 Submission of a tender is deemed to be confirmation of the fact that the Tenderer has analyzed the Contract documents and inspected the site, and is fully conversant with all conditions.

2 PRODUCTS (NOT USED)

3 EXECUTION (NOT USED)

1 GENERAL

1.1 DESCRIPTION

- .1 Work includes labour, materials, equipment and services necessary to provide and install cedar roofing and localized cedar wall cladding.

1.2 REFERENCES

- .1 CSA 0118.1 Western Red Cedar Shingles and Shakes.
- .2 CSA A123.3 M 1979, Roofing felt.
- .3 CSA B111 Wire Nails, Spikes and Staples.
- .4 RCABC Roofing Practice Manual
- .5 CSA 080 Series-97 Wood Preservation

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 11 55 - General Instructions.
- .2 Submit full size shingles of finish and profile specified. *Cedar shingle samples are to include semi-transparent stain as outlined in 2.1 Materials.*

1.4 WARRANTY

- .1 Provide a manufacturer's standard material guarantee for thirty (30) years.

2 PRODUCTS

2.1 MATERIALS

- .1 Western red cedar shingles: to CSA 0118.1-97, 18" length; shingle width and pattern to match existing.
- .2 Cedar shingles must be No. 1 Blue Label (100% heartwood, 100% clear and 100% edge grain) except for starter course that may be No. 2 grade. Shingles to be sawn both sides.
- .3 Cedar shingles must be preservative treated by means of chemical impregnation. Kiln dried after treatment to less than 19% moisture content.
- .4 Finish: As directed by the consultant, cedar shingles are to be stained, to match existing red painted cedar shingles. Refer to 09 91 00 – Painting for schedule of cedar shingle roofs to receive **solid semi-transparent** stain finish. *All surfaces of cedar shingles are to be coated with specified stain. Contractor is to provide samples for review of the colour match by the Consultant. Contractor to allow for a minimum of 4 samples.*
- .5 Roofing Felt Underlayment: asphalt saturated felt, to CSA A123.3 M 1979, perforated, 15 lb. weight.
 - .1 Acceptable product: No. 15 Shake felt by Hal Industries or preapproved equal.

- .6 Eave Protection:
 - .1 Acceptable products:
 - .1 Asphalt saturated felt, 2 layers of No. 15, to CSA A123.3M 1979, perforated.
 - .2 2 layers of No.15 Shake Felt by Hal Industries or preapproved equal.
 - .7 Metal Flashings: 26 gauge, dark brown, prepainted and galvanized flashings. Minimum galvanizing is to be G90 or AZ150.
 - .1 Refer also to Sheet Metal Flashings 07 62 00 for further information.
 - .2 Colour to match existing flashings where flashing is below cedar roof. Flashings over cedar roof are as per spec 07 62 00.
 - .8 Nails: Fabricate to CSA B111. All fasteners to be stainless steel ring shank type. Nails must have sufficient length to penetrate the underlying strapping a minimum of 20 mm, or in the case of plywood, completely through the sheathing. Staples and T-nails will not be accepted.
 - .8 Spaced wood sheathing (for replacement of deteriorated strapping):
 - .1 All wood sheathing to be pressure treated wood as per Specification 06 05 73 and 06 10 00.
 - .2 Spaced sheathing (across down the slope) is to be 1x6 strapping spacing to match the weather exposure of the cedar roofing.

3 EXECUTION

3.1 GENERAL REQUIREMENTS

- .1 Install cedar shingles in accordance with RCABC Roofing Practices manual RGC system sheet specification STR-CS.
- .2 Whenever the requirements explicitly stated in this specification are more stringent than noted in the above RGC specifications the more stringent requirement will apply.

3.2 REMOVAL OF EXISTING ROOFING

- .1 Remove existing cedar shakes and underlayment.
- .2 Retain existing flashings where indicated remove other flashings.
- .3 Consultant to inspect roof sheathing as required. Cut out and remove portion of sheathing affected by rot or fungal attack as directed on site by Consultant.
- .4 Replace cut out portions of sheathing with new sheathing of equal sectional dimensions, and specified grade. Seat each end of board on rafter, with 1" bearing, and secure to rafter.

3.3 EAVE PROTECTION:

- .1 Install eave protection so that it extends a minimum of 36" (900 mm) up from the eave or 24" past the exterior wall line which ever

is greater. Extend eave protection a minimum of 1-1/2" (40mm) behind gutters if present.

3.4 ROOFING FELT UNDERLAYMENT

- .1 Install one layer of roofing felt horizontally in successive strips with 150 mm horizontal laps arranged to shed water. Vertical laps shall be made where required and have a minimum 300 mm overlap
- .2 Install a 30" wide strip of No. 15 felt over roofing felt at valleys, hips and ridges prior cedar roofing and flashing installation. All laps in the felt must be formed to shed water (ie. shingle laps).
- .3 Install 24" (minimum) wide crimped metal flashings in valleys. Flashing to have a central fold and hemmed edges on sides.

3.5 SHINGLE APPLICATION

- .1 Do cedar roof work in accordance with CSA O118 and as described in the RGC specifications.
- .2 Install shingles over dry substrate.
- .3 Install shingles as required as recommended for roof slope and shingle/shake length. Refer to RGC specification.
- .4 Shingles are to be applied in straight single courses.
- .5 Lay shingles with grain perpendicular to eaves.
- .6 Saw shingles parallel to valley centre line. Do not break joints into valley.
- .7 Butts of first course must project minimum of 1-1/2" (40mm) beyond roof edge.
- .8 Minimum projection of cedar roofing for gable ends is 1" (25mm)
- .9 Maximum recommended exposure must not be exceeded.
- .10 Space shingles from 1/4" to 3/8" (6 to 10 mm).
- .11 Stagger joints minimum of 1-1/2" (40 mm) in succeeding courses. Ensure that in any 3 courses no two joints are in alignment.
- .12 Over hips and ridges use shingles of uniform width approximately 6" (150 mm) wide. Apply shingles at same weather exposure as field of roof.
- .13 Use two nails per shingle. Space nails 3/4" (20 mm) from edge and 1-1/2" (40 mm) above butt line of following course.
- .14 Drive nails flush but do not crush shingles.
- .15 Install step flashings at vertical surfaces meeting sloped roofing. Extend flashing a minimum of 5" up vertical surfaces, 4" between courses of roofing and 3" headlap. Interlace step flashing with each successive course of shingles/shakes.
- .16 Install apron, backpan, and counter flashings as required following the RGC specification.
- .17 Penetrations through the cedar roofing is to follow RGC recommendations.
- .18 All ridges and hips to receive an underlayment of 15lb roofing felt prior to capping. All hips and ridges to be of alternate underlay and use concealed fasteners.
- .19 Provide zinc strips at all ridges, hips and shoulders. Exposure 4.

3.6 SIDEWALL
APPLICATIONS

- .1 Sidewall applications to follow the recommendations in the RGC Roofing practices manual Section 7.2.2.2 and 7.2.3.1 as applicable.
- .2 Install all shingles in single coursing pattern.

END OF SECTION

1 GENERAL

1.1 DESCRIPTION

- .1 The work described in this section includes exterior paint application.

1.2 REFERENCES

- .1 Master Painters and Decorators Association of B.C. Reference Manuals (Painting Specification Manual):
 - .1 New Surfaces - CPCA/MPDA Painting Specification Manual, latest edition
 - .2 Existing Surfaces - MPDA Maintenance Repainting Guide, latest edition

1.3 REQUIREMENTS INCLUDED

- .1 This section of work shall include all labour, materials, tools, scaffolds and other equipment services and supervision required to cover with paint the surfaces of the building or structure, the building services and accessories not otherwise protected or covered, as shown on the "Finish Schedule", to the full intent of the drawings and specifications.
- .2 All finished areas that are affected by the work (new and existing) are to be fully prepared and painted in accordance with this specification in colours to match existing.
- .3 All surfaces to receive painting are to be fully finished, suitable for the application of pre-treatments, surface preparation, priming and coating in accordance with the Painting Specification Manual

1.4 QUALITY CONTROL

- .1 Retain purchase orders, invoices and other documents to prove that material used in contract meets requirements of specification and produce when requested by Consultant.

1.5 QUALITY ASSURANCE

- .1 Conform to MPI's Painting Architectural Specification Manual and the Maintenance Repainting Manual, latest editions.
- .2 Qualification of the Manufacturer: The paint products of the Paint Manufacturer shall be listed in the Painting Specification Manual under "Paint Product Recommendation" section, or approved equivalent.
- .3 Qualification of Applicators: The contractor shall have a minimum of five (5) years proven satisfactory experience. This contractor shall maintain a qualified crew of painters throughout the duration of the work who shall be qualified to fully satisfy the requirements of this specification.

1.6 SAMPLES AND MOCK-UPS

- .1 Submit samples in accordance with Section 01 11 55 - General Instructions as requested by the Consultant.
- .2 When requested by the Consultant, prepare and repaint designated surface, area or room to workmanship standards of the MPI Repainting Manual for review and approval. When approved, surface, area, room and/or items shall become acceptable standard of finish quality for similar on-site repainting work.
- .3 Apply coating test area to an agreed mock-up location to confirm method of application, material compatibility, adherence, bond, texture, finish and colour for each paint colour and type. Test area to be a minimum of 1 square metre.

1.7 SUBMITTALS

- .1 Submit list of all painting materials to the Consultant for review prior to ordering materials
- .2 When requested, submit invoice list of all paint materials ordered for project work indicating manufacturer, types and quantities for verification and compliance with specification and design requirements.
- .3 At project completion, provide an itemized list complete with manufacturer, paint type and colour coding for all colours used for Owner's later use in maintenance.

1.8 DELIVERY AND STORAGE

- .1 Deliver and store materials in manufacturer's original container, sealed with labels intact.
- .2 Ensure dry delivery and storage of materials and equipment at site.
- .3 Indicate on containers or wrappings:
 - .1 Manufacturer's name and address.
 - .2 Type of paint.
 - .3 Compliance with applicable standard.
 - .4 Colour number in accordance with established colour schedule.
- .4 Store materials and equipment in a well ventilated place with temperature range 10 to 30° C.
- .5 Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings (e.g. no smoking) as required.
- .6 Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.

- .7 Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.9 ENVIRONMENTAL REQUIREMENTS

- .1 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.
- .2 Apply paint finishes only when temperature and ventilation at location of installation can be satisfactorily maintained within manufacturer's recommendations.
- .3 Substrate, ambient temperature and humidity must be within limits prescribed by manufacturer.
- .4 Provide temporary heating where permanent facilities are not available to maintain minimum recommended temperatures.
- .5 Apply paint finish only in areas where dust is no longer being generated by related construction operations such that airborne particles will not affect the quality of the finished surface.
- .6 Apply paint only when surface to be painted is dry, properly cured and adequately prepared.
- .7 Maximum moisture content of substrates as follows:
 - .1 Plaster and Wallboard - 12%
 - .2 Wood - 15%
 - .3 Concrete – 12%

1.10 EXISTING CONDITIONS

- .1 Investigate structural problems related to safe execution of preparation of structure to be painted and report unsatisfactory conditions to Consultant before beginning work.
- .2 Report to Consultant conditions of deteriorated materials found during preparation, not previously disclosed.
- .3 The exposed concrete elements of the building have some delaminated coatings and must be identified at the start of the work to ensure repairs are made well in advance of painting.

1.11 PROTECTION

- .1 Protect paint and painting equipment before use and during length of contract from climatic elements.
- .2 Protect structure from markings and other damage. Protect completed work from paint droppings. Use non-staining coverings.
- .3 Remove all electrical plates, surface hardware, fittings and fastenings, prior to painting operations. These items shall be carefully stored, cleaned and replaced on completion of work in each area. No solvent shall be used to clean hardware that will affect the finish of the hardware.

- .4 Provide for protection of passing pedestrians and the general public.
- .5 All ladders, scaffolds, lift equipment and general plant shall be securely locked when not in use to prevent access to the balconies, roofs or through windows by other parties than the Contractor.
- .6 Protect all exterior surfaces and areas, including landscaping, walks, drives, all adjacent building surfaces (including glass, aluminum surfaces, etc.) and equipment and any labels and signage from repainting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.

1.12 SCHEDULING OF WORK

- .1 Submit work schedule starting and final completion dates for approval by Consultant.
- .2 Take measures necessary to complete work within approved scheduled time. Change in schedule must be approved by Consultant.
- .3 Co-ordinate execution with other work at site.

1.13 ALTERNATIVES

- .1 Products conforming to this specification must be identified in writing by contractor for review by Consultant.
- .2 Changing manufacturers' brands, sources of supply of painting materials from those previously approved must be approved by Consultant.
- .3 Request for alternative approval must be submitted in writing and be accompanied by full literature and recommendations from manufacturers concerned.

1.14 GUARANTEE

- .1 Furnish a two (2) year Maintenance Bond both in accordance with MPI Repainting Manual requirements. The Maintenance Bond shall be obtained from an approved bonding company and shall warrant that all repainting work has been performed in accordance with MPI Repainting Manual requirements.
- .2 All exterior repainting work shall be in accordance with MPI Repainting Manual requirements and shall be inspected by the Painting Association whether using the Painting Association Guarantee or the Maintenance Bond option.
- .3 The cost for such Painting Association inspections as well as either the Painting Association Guarantee or Maintenance Bond shall be included in the Base Bid Price and any Separate Pricing or Cost Plus items awarded to the Painting Contractor.
- .4 Painting Subcontractors choosing the Maintenance Bond option shall provide written proof of their ability to supply same at time of bidding.

**1.15 MAINTENANCE
MATERIALS**

- .1 At project completion, provide 4 litres (1 gallon) of each type and colour of paint from same production run (batch mix) used in unopened cans, properly labelled and identified for Owner's last use in maintenance. Store where directed.

2 PRODUCTS

2.1 MATERIALS

- .1 All materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, thinners, solvents, etc.) shall be in accordance with the MPI Manuals "Approved Product" listing and shall be from a single manufacturer for each system used.
- .2 Other paint materials such as linseed oil, shellac, turpentine, etc. shall be the highest quality product of an approved manufacturer listed in the MPI Manuals and shall be compatible with other coating materials as required.
- .3 All materials and paint shall be lead and mercury free and shall have low VC or cure free of blemishes or sags.
- .4 Where required, paints and coatings shall meet flame spread and smoke developed ratings designated by local Code requirements and/or authorities having jurisdiction.

**2.2 TOOLS AND
EQUIPMENT**

- .1 Painting equipment to best trade standards for type of product and application.
- .2 The use of power tools to remove existing coatings from painted elements will not be permitted.

**2.3 MIXING AND
TINTING**

- .1 Unless otherwise specified, paints shall be ready-mixed. Re-mix prior to application to ensure colour and gloss
- .2 Paste, powder or catalysed paint mixes shall be mixed in strict accordance with manufacturer's written instructions
- .3 Perform all colour tinting operations prior to delivery of paint to site.
- .4 Where thinner is used, addition shall not exceed paint manufacturer's recommendations
- .5 Confirm with manufacturer that the addition of tinting components will not significantly affect performance characteristics

2.4 GLOSS AND SHEEN

- .1 Paint gloss shall be defined as the sheen rating of applied paint, in accordance with the following values:
 - .1 Flat or matte – 0 – 5 units at 60 degrees to a maximum of 10 units at 85 degrees.
 - .2 Eggshell, velvet or low lustre – 5 – 25 units at 60 degrees to a minimum of 10 units at 85 degrees
 - .3 Satin – 20 – 35 units at 60 degrees
 - .4 Semi-gloss – 35 – 65 units at 60 degrees
 - .5 Gloss – 65 units or greater.
- .2 Finish (i.e. gloss level) of all painted surfaces shall be as indicated by Consultant.

2.5 PAINTING AND FINISH SCHEDULE

- .1 Dimensional Lumber (includes, but not limited to, fascia boards and wood framing at Latrine Building):

EXT 6.2 Dimensional Lumber

REX 6.2A Latex

Full Prime	MPI 5	Alkyd Stain Blocking Priming
1st Coat	MPI 10	Exterior Latex, G1
2nd Coat	MPI 10	Exterior Latex, G1

- .2 Exposed Concrete Surfaces (for concrete surfaces already painted or coated with stucco finish):

REX 3.1 Concrete Vertical Surfaces

REX 3.1F Elastomeric

1st Coat	MPI 113	Elastomeric
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- .3 Wood Shingles and Shakes (includes, but not limited to, all cedar shingle roofs, except WW2 Hut Building):

EXT 6.6 Wood Shingles and Shakes

~~EXT 6.6C Solid Colour Stain~~ **EXT 6.6F Semi-Transparent Stain**

Full Prime	MPI 5	Alkyd / Oil Primer
1st Coat	MPI 14 13	Solid Semi-Transparent Stain
2nd Coat	MPI 14 13	Solid Semi-Transparent Stain

3 EXECUTION

3.1 CONDITION OF SURFACE

- .1 Prior to commencement of work of this section, thoroughly examine all conditions and surfaces scheduled to be repainted and report in writing to the Consultant any conditions or surfaces that will adversely affect work of this section.
- .2 No repainting or painting work to commence until all such adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the Consultant.

3.2 SURFACE PREPARATION

- .1 Prepare all surfaces in accordance with the requirements of MPI Manuals.
- .2 Protect all adjacent surfaces and areas from painting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection
- .3 Remove and securely store all miscellaneous hardware and surface fittings and fastenings including by not limited to electrical plates, mechanical louvers, light fixtures and trim, mouldings, etc. prior to repainting and replace upon completion. Carefully clean and replace all such items upon completion of repainting work in each area. Do not use solvent or reactive cleaning agents on items that will mar or remove finishes.
- .4 Sand, clean dry etch, neutralize and/or test all surfaces under adequate illumination, ventilation and temperature requirements.
- .5 Wood, cedar shingles and millwork: All wood surfaces shall be clean and dry with moisture content readings of less than 15%. Remove all foreign matter prior to prime coat applications. Knots, pitch streaks and sappy sections shall be spot coated with sealer. Coat all sides of interior and exterior wood and all cut ends.
- .6 Mildew Removal: Scrub with a solution of T.S.P. and bleach, rinse with clear water and allow surface to dry completely.
- .7 Metal Flashing with Inorganic Zinc Rich Primer: Prepare as directed by applicator of zinc rich primer.
- .8 Custom Metal Fabrications
 - .1 Prepare as directed in Section 5.3 – Surface Preparation, MPI Architectural Painting Specification Manual.
 - .2 Ensure all soldering residue has been cleaned from the surface of the metal and neutralized.
- .9 Concrete surfaces:
 - .1 Prepare as directed in Section 3.1 – Surface Preparation, MPI Architectural Painting Specification Manual.
 - .2 Include power washing to clean off surface dirt.

3.3 PAINTING APPLICATION

- .1 Do not paint unless substrates are acceptable and/or until all environmental conditions (heating, ventilation, lighting, weather

- conditions and precipitation, or completion of other work) are acceptable for application of products.
- .2 Cold weather painting, when temperatures are less than 10 degrees C, is only permitted when paints formulated for lower temperatures are used and manufacturer's limitations are observed for maximum humidity levels and minimum temperatures. Contractor to submit technical information regarding paint manufacturer's recommendations for cold weather work and protection.
 - .3 Paint and repaint all surfaces requiring paint, stain or coating to minimum MPI Manual finish requirements with application methods in accordance with best trade practices for type and application of materials used.
 - .4 Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendation
 - .5 Method of application and uniform coats of specified film thickness be in agreement with paint supplier and Consultant.
 - .6 Apply each coat at the proper consistency.
 - .7 Sand lightly and dust between coats to achieve an anchor for the next coat and to remove defects visible from a distance up to 1000 mm.
 - .8 Do not apply finishes on surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
 - .9 Custom flashing fabrications
 - .1 Site preparation and painting will not be acceptable.
 - .10 To avoid air entrapment in applied coats, apply materials in strict accordance with manufacturer's spread rates and application requirements.
 - .11 Where touch-up painting is undertaken and found to be noticeable, the entire surface will require repainting from break to break or corner to corner.
 - .12 All surfaces of cedar shingles are to be coated with specified stain and in accordance with applicable MPI standards prior to installation.

3.4 FIELD QUALITY CONTROL

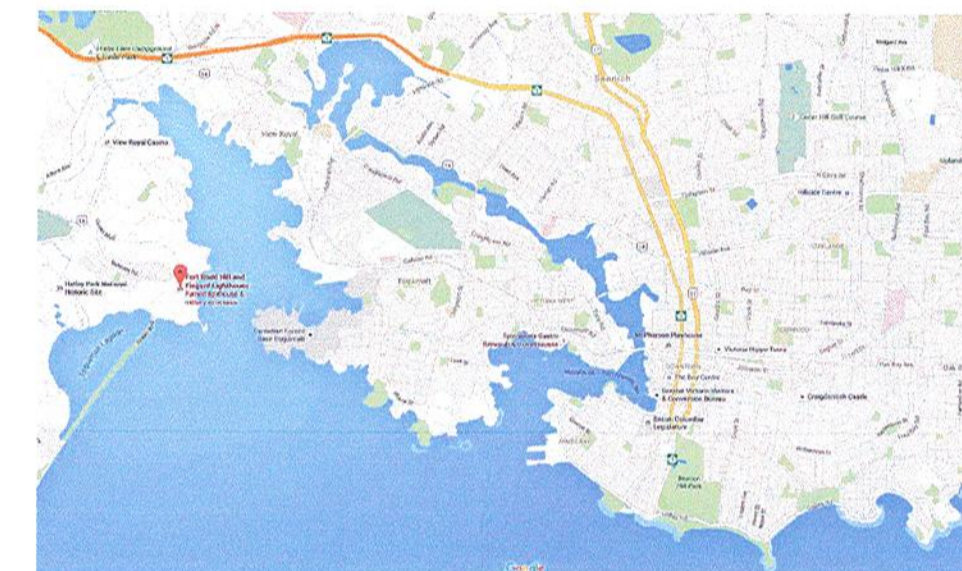
- .1 Painted, repainted and primed surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent:
 - .1 Runs, sags, hiding or shadowing by inefficient application methods
 - .2 Evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners and re-entrant angles
 - .3 Damage due to touching before paint is sufficiently dry or any other contributory cause

- .4 Damage due to application on moist surfaces are caused by inadequate protection for the weather
- .5 Damage and/or contamination of paint due to window blown or air born contaminants
- .6 Evidence of poor paint bonding.
- .7 Painted, repainted or primed surfaces rejected by the Consultant shall be made good at the expense of the Contractor
- .2 Examine surface for adequate preparation.
- .3 Check all materials for correctness.

3.5 CLEAN-UP

- .1 Removal of all paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
- .2 Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials and debris
- .3 Remove combustible rubbish material and empty paint cans each day and safely dispose of same in accordance with requirements of authorities having jurisdiction.
- .4 Clean equipment and dispose of wash water / solvents as well as all other cleaning and protective materials, paints, thinners, paint removers/strippers, in accordance with the safety requirements of authorities having jurisdiction.
- .5 Protect area where paint has been applied and avoid scuffing newly applied paint.

END OF SECTION



FORT RODD HILL REROOFING AND REPAIRS

ADDRESS:

603 Fort Rodd Hill Road,
VICTORIA, BC



LIST OF GENERAL ARRANGEMENT DRAWINGS:

- BE0.0 COVER SHEET
- BE1.0 AERIAL SITE PLAN
- BE1.1 BUILDING ROOF PLANS
- BE1.2 BUILDING IMAGES
- BE1.3 SCHEDULE AND DETAILS
- BE1.4 DETAILS
- BE1.5 DETAILS
- BE1.6 DETAILS
- BE1.7 DETAILS



4		
3	RE-ISSUED FOR ADDENDUM NO. 1	SEPT. 19, 2016
2	ISSUED FOR TENDER	AUG. 19, 2016
1	ISSUED FOR 99% REVIEW	JUL. 06, 2016
0	ISSUED FOR 66% REVIEW	MAY 20, 2016
Revision / Révision	Description / Description	Date / Date

Client / client
PARKS CANADA
WESTERN REGION
 VICTORIA, B.C. NATIONAL
 HISTORIC SITE

Project title / Titre du projet
FORT RODD HILL
REROOFING AND REPAIRS
 603 Fort Rodd Hill Road, Victoria, B.C.

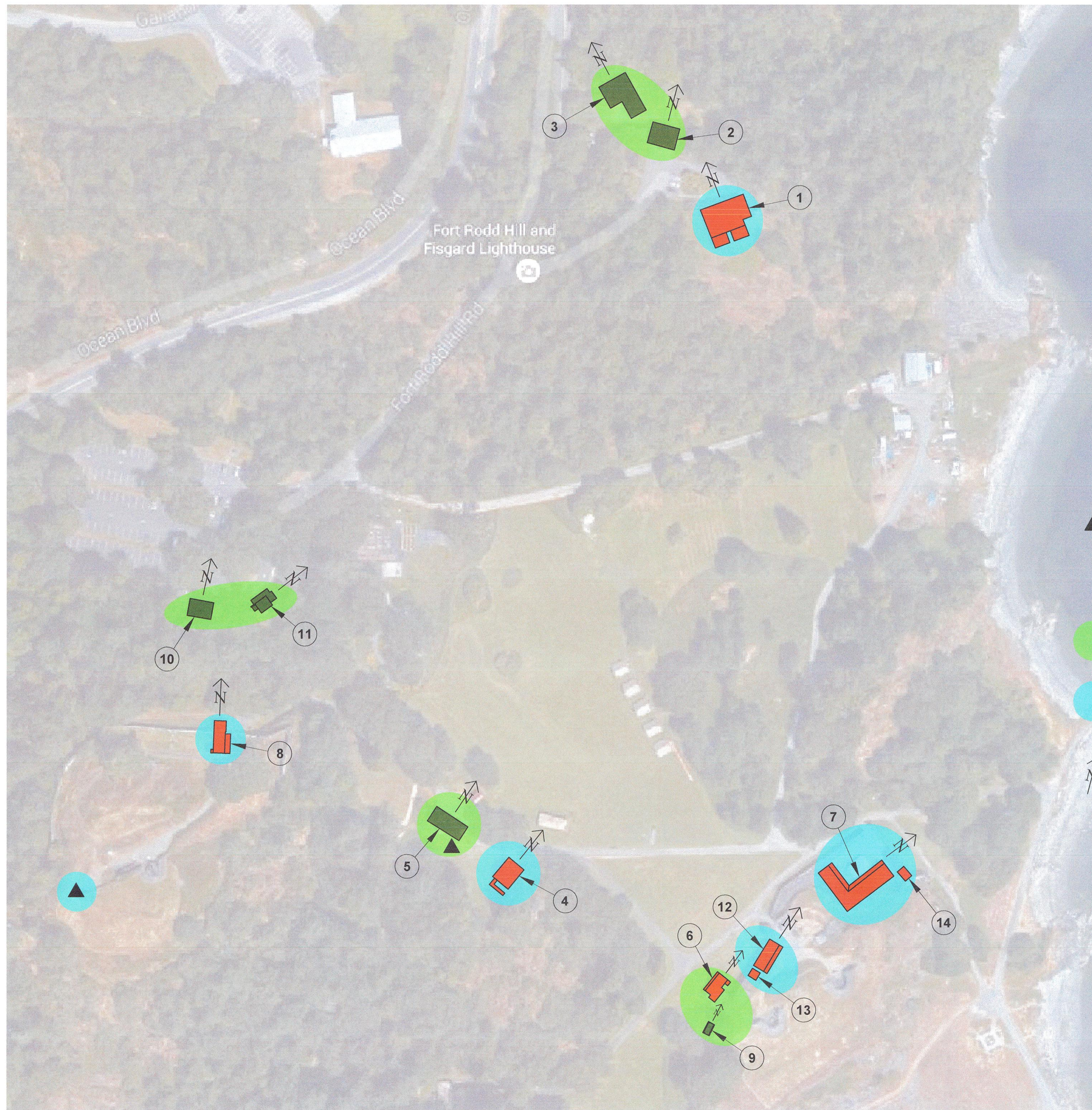
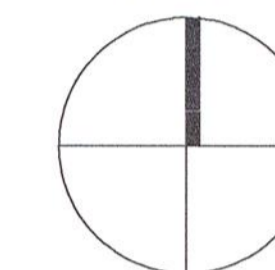
Consultant Approval Box Only
 Designed by / Concept par
 PK
 Drawn by / Dessiné par
 GR / AC
 PWGSC, Project Manager / Administrateur de Projets TPSGC
 TOM DUNPHY
 PWGSC, Regional Manager, Architectural and Engineering Services /
 Gestionnaire régionale, Services d'architectural et de génie TPSGC
 PREETIPAL PAUL

Drawing title / Titre du dessin
COVER SHEET

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Révision no.
R.060702.001	BE.0.0	

RDH

PROJECT
NORTH



BUILDING LEGEND:

1. ADMINISTRATION BUILDING - Journey's End House (1928 - 1932) (N.I.C.)
2. STAFF HOUSING - CARRIAGE HOUSE
3. COLLECTIONS BUILDING (2004)
4. WOQ - Warrant Officer's Quarters (1897) (N.I.C.)
5. WW2 HUT (Washroom Building)
6. CANTEEN VERANDA
7. CASEMATE BARRACKS VERANDA (N.I.C.)
8. UPPER BATTERY GUARDHOUSE VERANDA (N.I.C.)
9. LATRINE BUILDING
10. WASHROOM BUILDING
11. ENTRANCE KIOSK (1994)
12. LOWER BATTERY GUARDHOUSE VERANDA (N.I.C.)
13. SMALL ARMS STORE (N.I.C.)
14. GENERAL STORE (N.I.C.)

NOTES:

BUILDINGS 1, 4, 6, 7, 8, 12, 13 AND 14 (SHOWN RED) HAVE BEEN DESIGNATED AS FEDERAL HERITAGE BUILDINGS BY THE FEDERAL HERITAGE BUILDINGS REVIEW OFFICE (FHBRO)

BUILDINGS 2, 3, 5, 9, 10 AND 11 (SHOWN GREY) ARE NON-FHBR BUILDINGS

▲ BLACK TRIANGLE REPRESENTS THE APPROXIMATE LOCATION OF NEW STEEL STAIR TO REPLACE EXISTING WOOD STAIR.
NOTE: THE STAIR AT BUILDING 5 IS INCLUDED IN CONTRACT, AND THE STAIR TO THE SW OF BUILDING 8 IS N.I.C.



INCLUDED IN CONTRACT



NOT INCLUDED IN CONTRACT (N.I.C.)



"PROJECT NORTH" FOR EACH INDIVIDUAL BUILDING



Revision / Revision	Description / Description	Date / Date
4		
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2	ISSUED FOR TENDER	AUG. 19, 2016
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0	ISSUED FOR 66% REVIEW	MAY 20, 2016

Client / client
**PARKS CANADA
WESTERN REGION
VICTORIA, B.C. NATIONAL
HISTORIC SITE**

Project title / Titre du projet
**FORT RODD HILL
REROOFING AND REPAIRS**

603 Fort Rodd Hill Road, Victoria, B.C.

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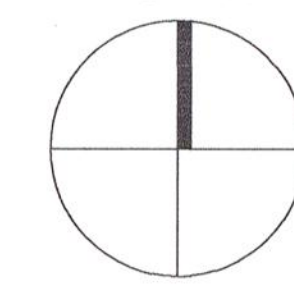
PWGSC, Project Manager / Administrateur de Projets TPSGC
TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services /
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAJJI

Drawing title / Titre du dessin
**AERIAL SITE PLAN
GRAPHIC SCALE: AS INDICATED**

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Revision no.
R.060702.001	BE1.0	





ROOF LEGEND

- ASPHALT SHINGLES TO REPLACE EXISTING
- STAINED CEDAR SHINGLES TO REPLACE EXISTING
- PREFINISHED STEEL STANDING SEAM ROOFING TO REPLACE EXISTING ASPHALT SHINGLES
- PREFINISHED STEEL CAP FLASHING, SELF ADHESIVE MEMBRANE AND DOUBLE 5/8" PLYWOOD COPING TO TOP OF UPSTAND WALL TO REPLACE EXISTING
- PREFINISHED STEEL HALF-ROUND GUTTER TO REPLACE EXISTING (U.N.O.)
- PREFINISHED STEEL ROUND RAINWATER LEADER TO REPLACE EXISTING (U.N.O.). FIELD VERIFY LOCATIONS AND COUNT.
- EXISTING HALF-ROUND GUTTER TO BE REMOVED, REPAIRED, REPAINTED AND REINSTALLED.
- EXISTING RAINWATER LEADER TO BE REMOVED, REPAIRED, REPAINTED AND REINSTALLED. FIELD VERIFY LOCATIONS AND COUNT.
- ROOF VENT TO REPLACE EXISTING. FIELD VERIFY LOCATIONS AND COUNT.
- PLUMBING VENT JACK TO REPLACE EXISTING. FIELD VERIFY LOCATIONS AND COUNT.
- DIVERTER FLASHING
- VALLEY OVERFLOW PROTECTION BARRIER (BY GUTTER SUPPLIER)



4		
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PARKS CANADA WESTERN REGION
 VICTORIA, B.C. NATIONAL HISTORIC SITE

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FORT RODD HILL REROOFING AND REPAIRS

603 Fort Rodd Hill Road, Victoria, B.C.

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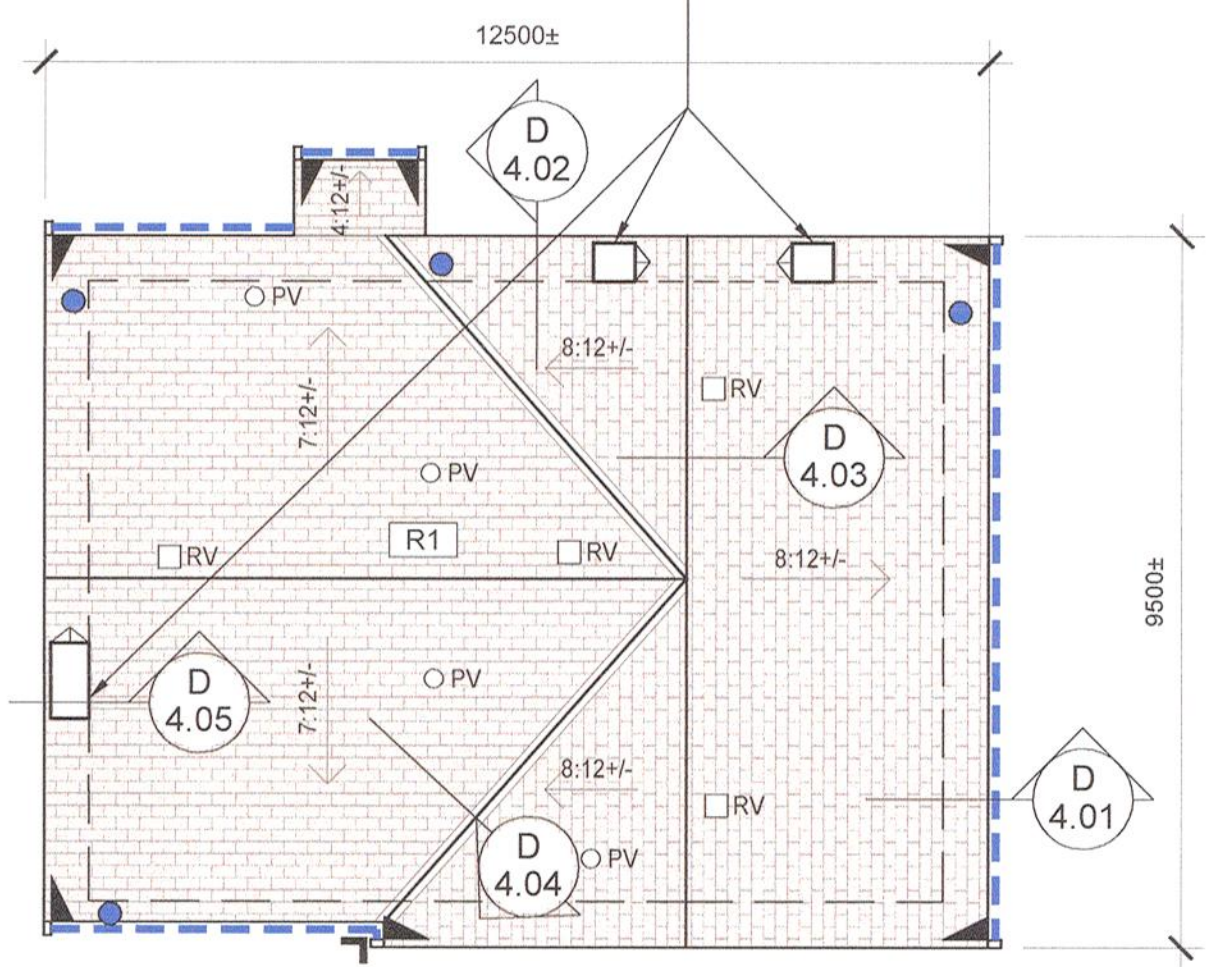
Drawn by / Dessiné par
 TOM DUNPHY

PWGSC, Project Manager / Administrateur de Projets TPSGC
 PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC
 PREEETIPAL PAUL

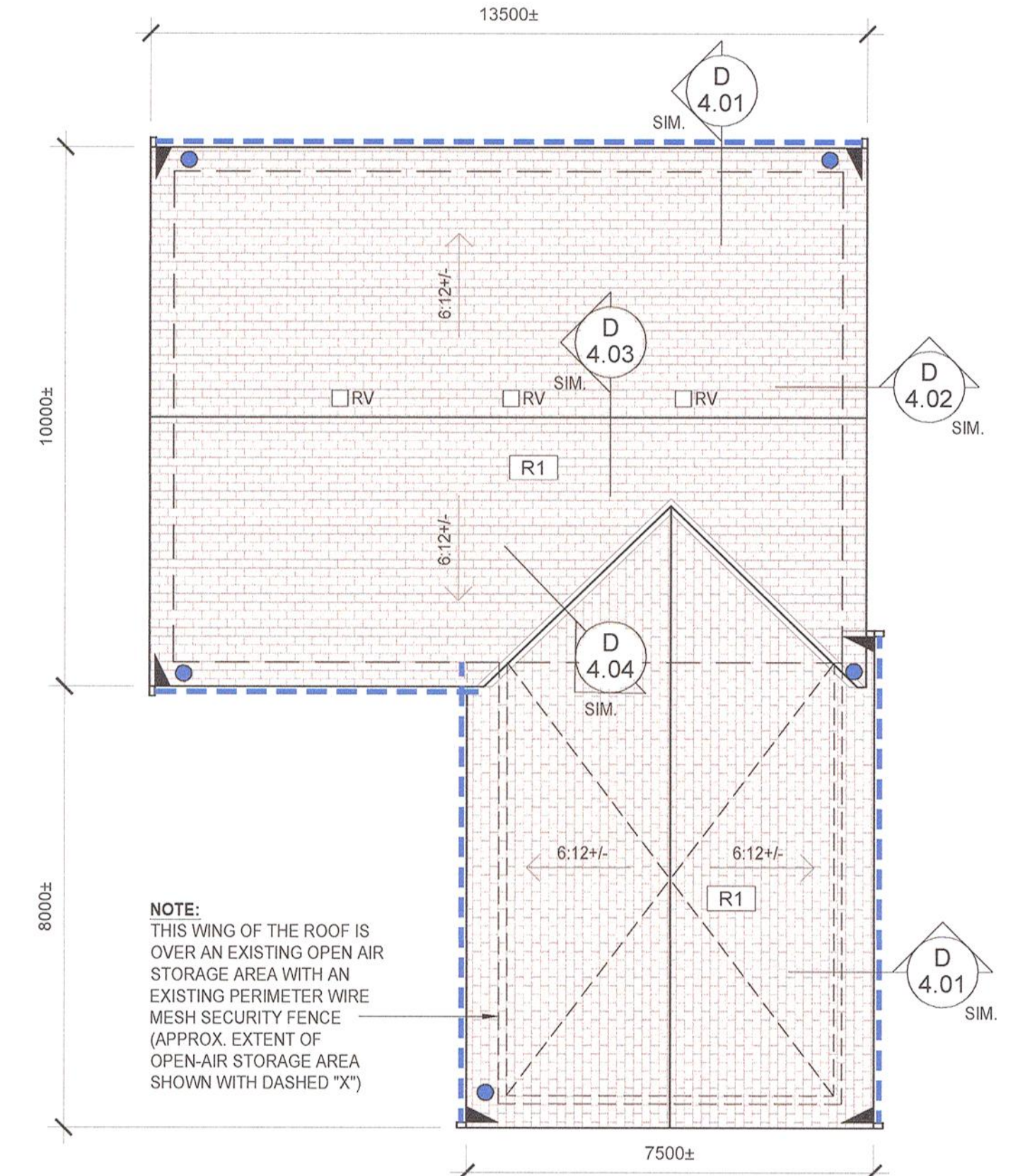
Drawing title / Titre du dessin
BUILDING ROOF PLANS
 SCALE: 1:100

Project no. / no. du Projet	Sheet / Feuille	Revision no. / Révision
R.060702.001	BE1.1	

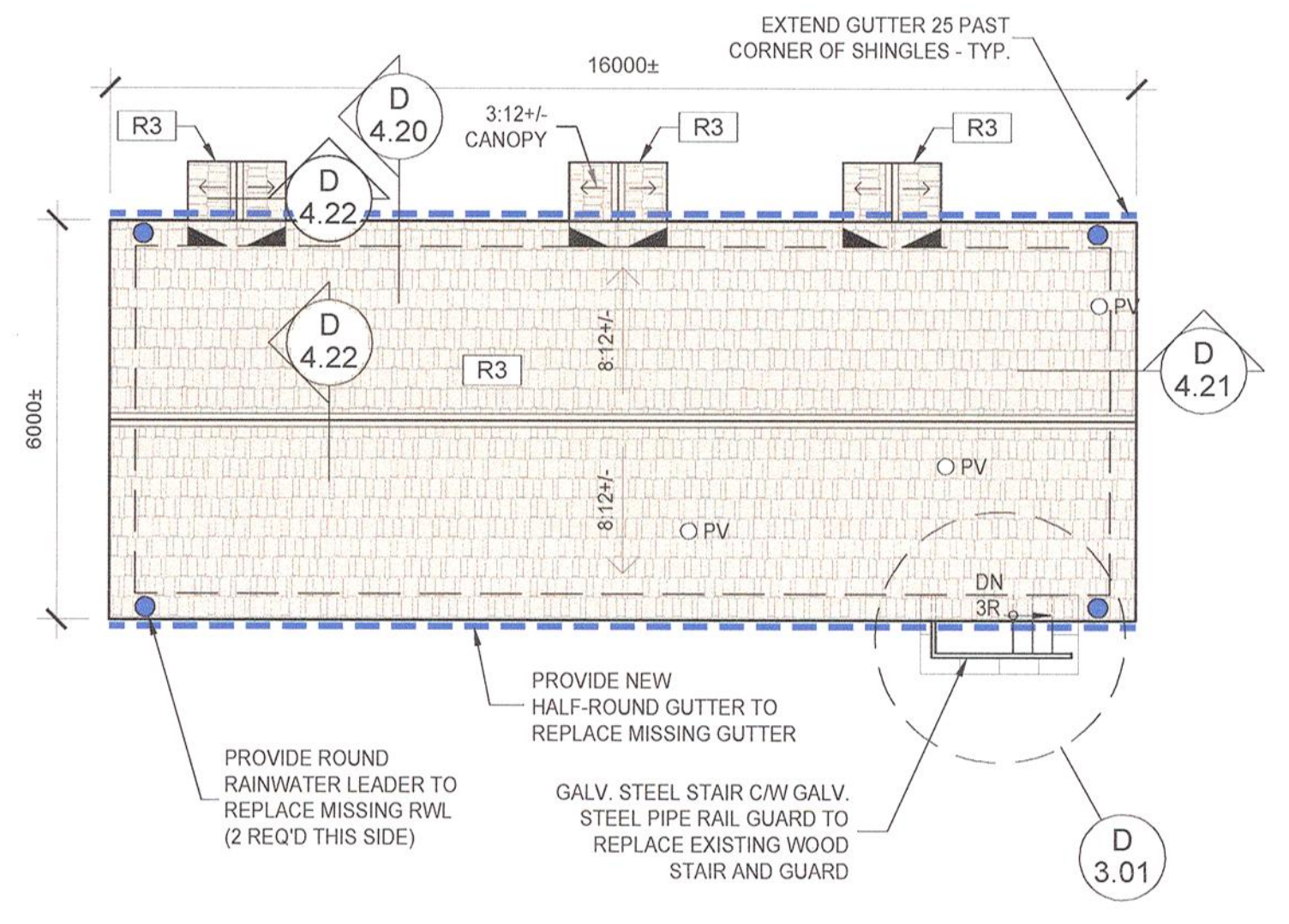
- CHIMNEY NOTES (TYP. OF 3):**
- EXISTING STUCCO CLAD MASONRY CHIMNEY. REMOVE EXISTING STUCCO CLADDING AND REPLACE WITH NEW STUCCO CLADDING - STUCCO COLOUR AND TEXTURE TO MATCH EXISTING.
 - REMOVE EXISTING SMOOTH PARGING BAND AT TOP OF CHIMNEY AND REPLACE WITH NEW CEMENTITIOUS PARGING TO MATCH EXISTING. PAINT NEW PARGING TO MATCH STUCCO COLOUR.
 - ALLOW FOR REPOINTING OF 25% OF EXISTING CHIMNEY MORTAR JOINTS.
 - PROVIDE PREFIN. STEEL STEP FLASHING TO CHIMNEY SIDES AND PREFIN. STEEL APRON FLASHING TO LOW SIDE OF CHIMNEY.
 - PROVIDE PREFIN. STEEL FLASHING SADDLE TO HIGH SIDE OF CHIMNEY.



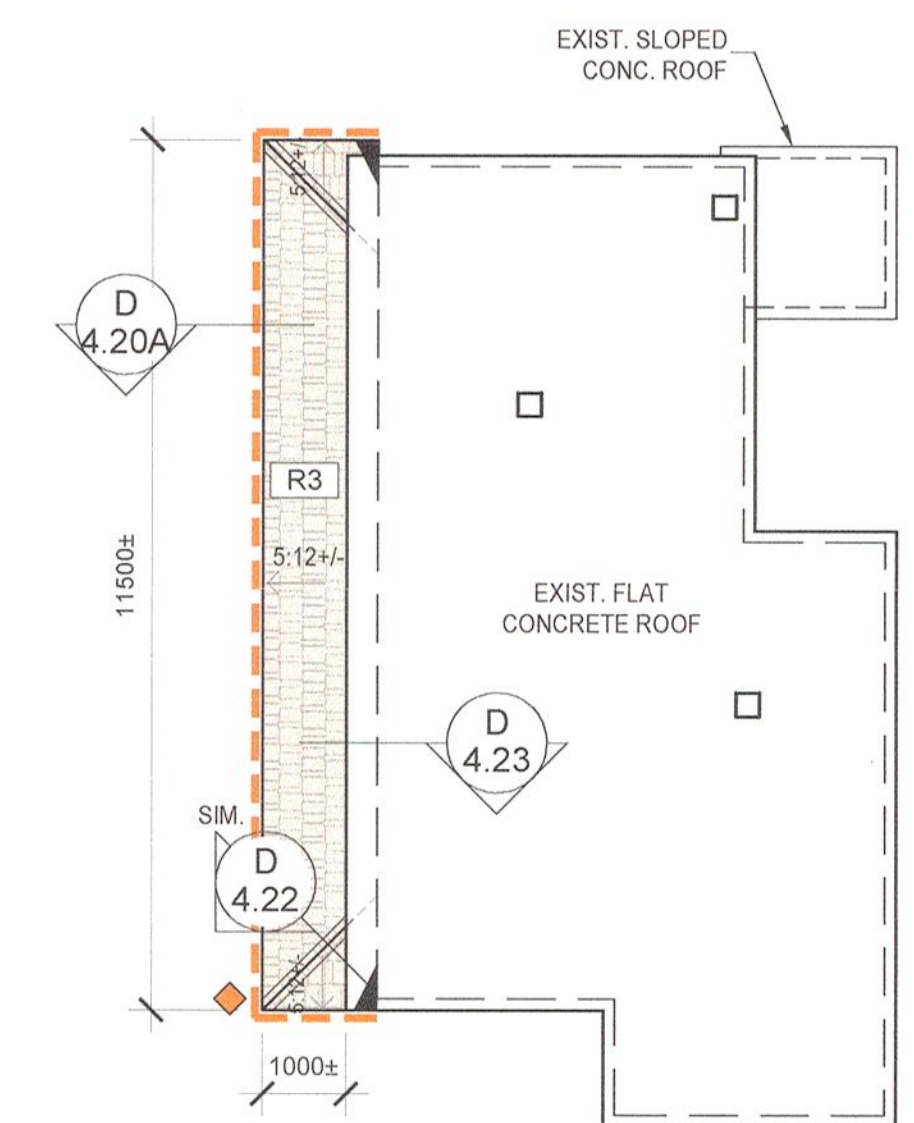
BLDG. 2: CARRIAGE HOUSE - STAFF HOUSING
 NOTE:
 REPAINT ALL EXISTING WOOD ROOF FASCIAS AT EAVES AND GABLES TO MATCH EXISTING.



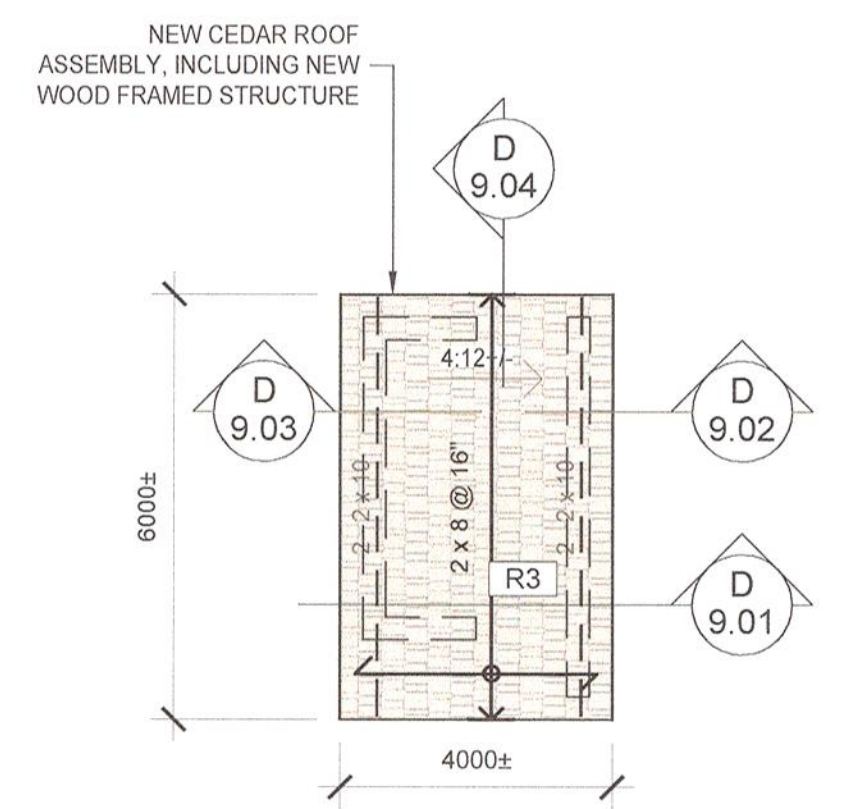
BLDG. 3: COLLECTIONS BUILDING
 NOTE:
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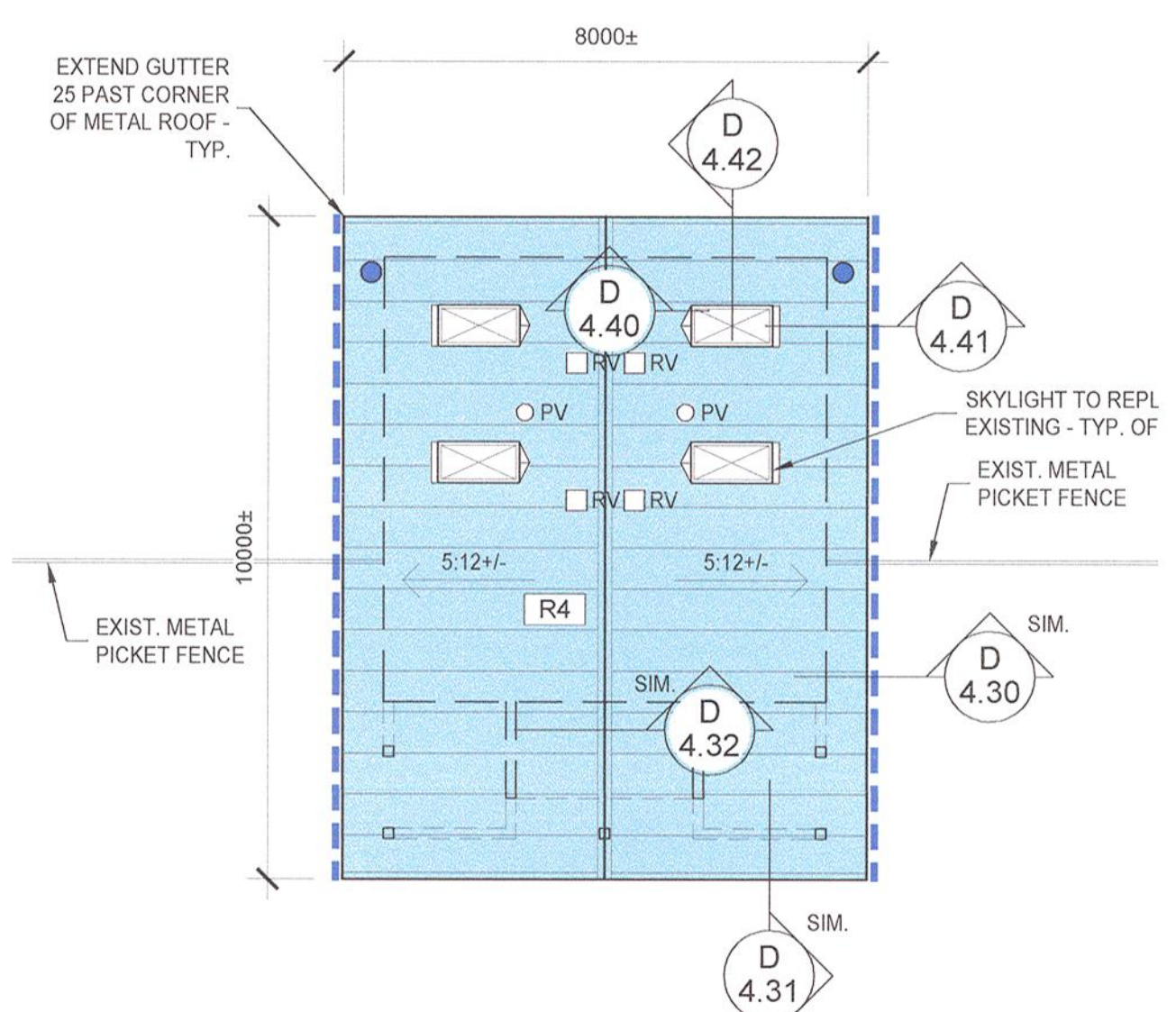
BLDG. 5: WW2 HUT - WASHROOM BUILDING
 NOTE:
 REPAINT ALL EXISTING WOOD ROOF FASCIAS AT EAVES AND GABLES TO MATCH EXISTING.



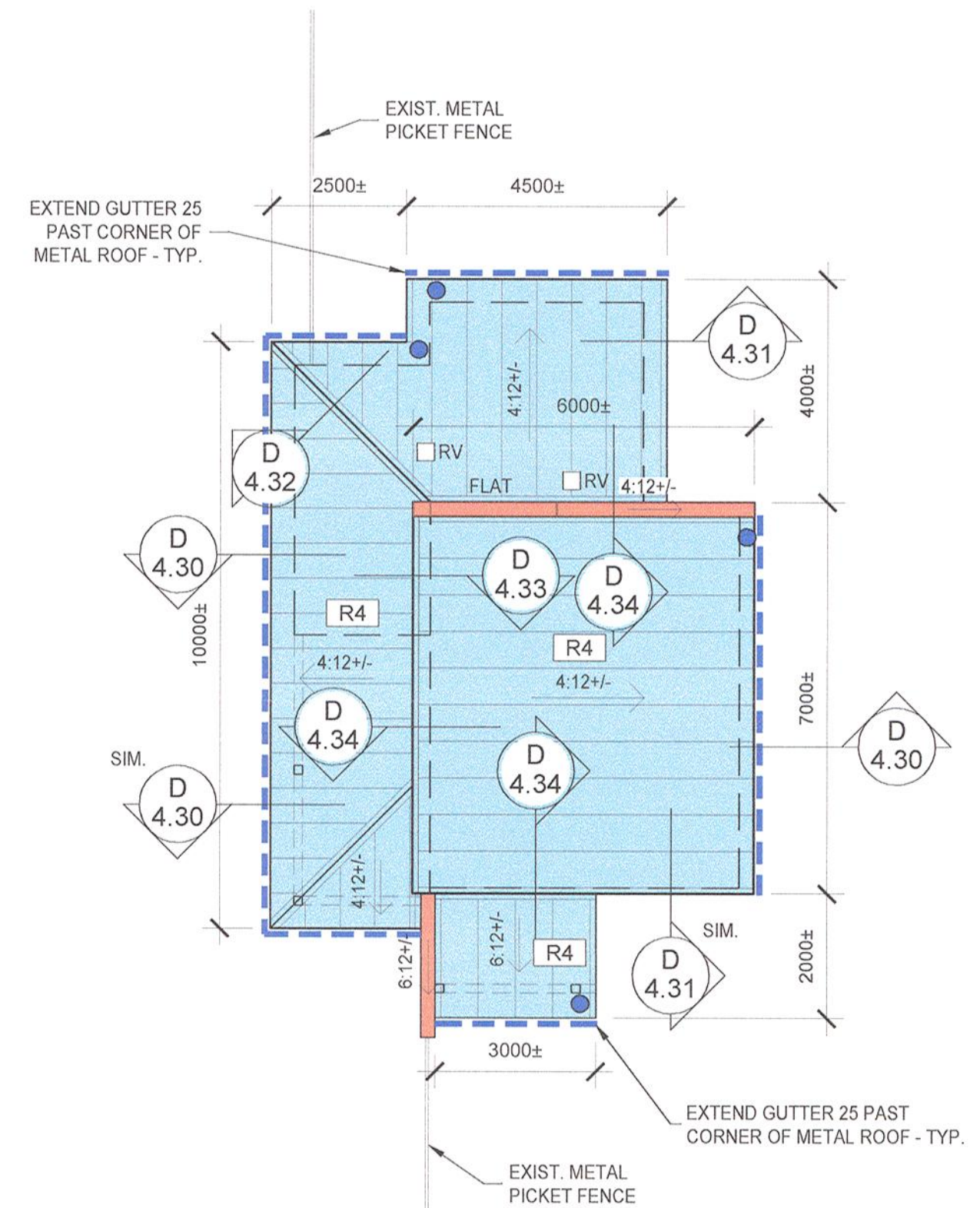
BLDG. 6: CANTEEN VERANDA
 NOTE:
 REPAINT ALL EXISTING WOOD ROOF FASCIAS AT EAVES AND GABLES TO MATCH EXISTING.



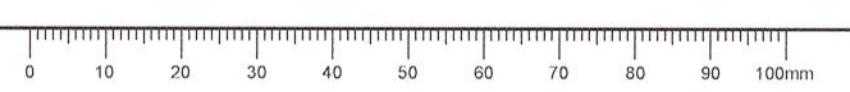
BLDG. 9: LATRINE BUILDING
 NOTES:
 1. GUTTER AND RWL NOT REQUIRED AT BLDG. 9.
 2. PAINT ALL WOOD FRAMING, SOFFITS AND FASCIAS EXPOSED TO VIEW TO MATCH ADJACENT BLDG. 6.



BLDG. 10: WASHROOM BUILDING
 NOTES:
 1. REPAINT ALL EXTERIOR WALL SURFACES TO MATCH EXISTING.
 2. REPAINT ALL EXISTING WOOD ROOF FASCIAS AT EAVES AND GABLES TO MATCH EXISTING.



BLDG. 11: ENTRANCE KIOSK
 NOTES:
 1. REPAINT ALL EXTERIOR WALL SURFACES TO MATCH EXISTING.
 2. REPAINT ALL EXISTING WOOD ROOF FASCIAS AT EAVES AND GABLES TO MATCH EXISTING.





BUILDING 2: CARRIAGE HOUSE
VIEW FROM SOUTH



BUILDING 2: CARRIAGE HOUSE
VIEW FROM NORTH



BUILDING 3: COLLECTIONS BUILDING
VIEW FROM SOUTH



BUILDING 5: WW2 HUT (WASHROOM BUILDING)
VIEW FROM NORTH



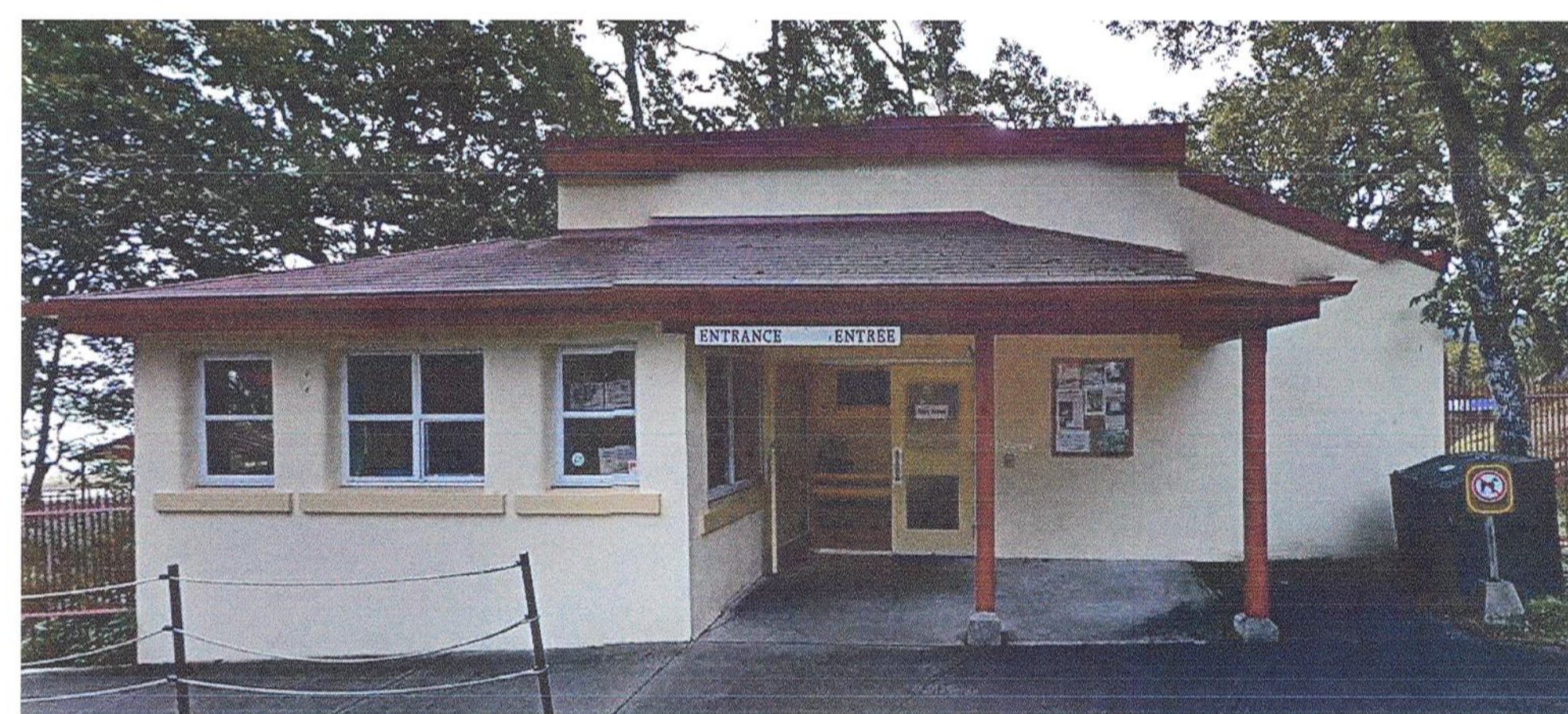
BUILDING 6: CANTEEN VERANDA
VIEW FROM NORTH



BUILDING 9: LATRINE BUILDING
VIEW FROM NORTH



BUILDING 10: WASHROOM BUILDING
VIEW FROM NORTH



BUILDING 11: ENTRANCE KIOSK
VIEW FROM NORTH



BUILDING 11: ENTRANCE KIOSK
VIEW FROM SOUTH



4		
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Revision / Revisión	Description / Description	Date / Date

Client / client
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HISTORIC SITE**

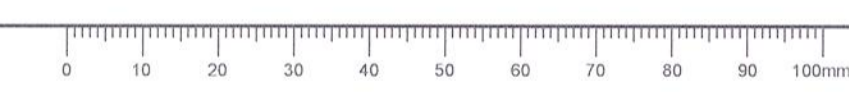
Project title / Titre du projet
**FORT RODD HILL
REROOFING AND REPAIRS**

603 Fort Rodd Hill Road, Victoria, B.C.

Consultant Approval Box Only
Designed by / Concept par
PK
Drawn by / Dessiné par
GR / AC
PWGSC, Project Manager / Administrateur de Projets TPSGC
TOM DUNPHY
PWGSC, Regional Manager, Architectural and Engineering Services /
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title / Titre du dessin
BUILDING IMAGES
SCALE: N/A

Project no. / no. du Projet	Sheet / Feuille	Revision no. / La Revisión no.
R.060702.001	BE1.2	



TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.t.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
R1	TYPICAL ASPHALT SHINGLE ROOF ASSEMBLY	<ul style="list-style-type: none"> ASPHALT SHINGLES ROOFING FELT UNDERLAYMENT <p>OVER INTERIOR SPACE (BLDG. 2 AND 3):</p> <ul style="list-style-type: none"> EXISTING PLYWOOD / OSB ROOF SHEATHING (FIELD VERIFY) EXISTING 1x8 SHIPLAP SOLID WOOD ROOF SHEATHING (NOTE: PRESENT AT BUILDING 2 ONLY) EXISTING SLOPED 2x WOOD ROOF FRAMING EXISTING ATTIC SPACE EXISTING INSULATION BETWEEN CEILING FRAMING EXISTING 2x WOOD CEILING FRAMING EXISTING CEILING ASSEMBLY <p>OVER EXTERIOR SPACE (BLDG. 3):</p> <ul style="list-style-type: none"> EXISTING PLYWOOD ROOF SHEATHING EXISTING 2x WOOD RAFTER FRAMING <p>NOTES:</p> <ol style="list-style-type: none"> REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT AND RELATED FLASHINGS. REPLACE DETERIORATED ROOF SHEATHING AND / OR FRAMING IF AND AS DIRECTED BY CONSULTANT (BY CONTINGENCY). ROOF PITCH VARIES - REFER ALSO TO ROOF PLAN. 	
Project title / Titre du projet FORT RODD HILL REROOFING AND REPAIRS 603 Fort Rodd Hill Road, Victoria, BC		Drawing title / Titre du dessin ASSEMBLY SCHEDULE ISSUED FOR ADDENDUM NO. 1 - SEPT. 19, 2016	
Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par GRAC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille SCH-0.01	

TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.t.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
R3	TYPICAL CEDAR SHINGLE ROOF ASSEMBLY	<ul style="list-style-type: none"> CEDAR SHINGLES (LENGTH AND EXPOSURE TO MATCH EXISTING) <p>OVER INTERIOR SPACE (BLDG. 5):</p> <ul style="list-style-type: none"> ROOFING FELT UNDERLAYMENT (TO REPLACE EXISTING) EXISTING 1x8 SHIPLAP SOLID WOOD ROOF SHEATHING EXISTING SLOPED 2x WOOD ROOF FRAMING EXISTING ATTIC SPACE EXISTING INSULATION EXISTING 2x WOOD CEILING FRAMING EXISTING CEILING ASSEMBLY <p>OVER EXTERIOR SPACE (BLDG. 5 AND 9):</p> <ul style="list-style-type: none"> ROOFING FELT UNDERLAYMENT AT BUILDING 9 ONLY. NOTE: BUILDING 6 DOES NOT REQUIRE ROOFING FELT UNDERLAYMENT (NEW ASSEMBLY TO MATCH EXISTING ROOF AT THIS BUILDING WHICH CURRENTLY DOES NOT HAVE UNDERLAYMENT - FIELD CONFIRM) EXISTING 1x4 T&G SOLID WOOD V-GROOVED ROOF DECKING (EXCEPT PROVIDE NEW 1x4 T&G SOLID WOOD V-GROOVED ROOF DECKING AT BLDG 9) EXISTING 2x WOOD RAFTER FRAMING (EXCEPT PROVIDE NEW 2x WOOD RAFTER FRAMING AT BLDG 9) <p>NOTE:</p> <ol style="list-style-type: none"> REMOVE EXISTING CEDAR SHINGLES, UNDERLAYMENT (WHERE OCCURRING) AND RELATED FLASHINGS. REPLACE DETERIORATED SOLID SHEATHING / ROOF FRAMING IF AND AS DIRECTED BY CONSULTANT (BY CONTINGENCY). ROOF PITCH VARIES - REFER ALSO TO ROOF PLAN. WHERE THE 1x4 ROOF SHEATHING IS EXPOSED TO VIEW, FASTENERS SHALL NOT BE VISIBLE - SELECT FASTENER LENGTH ACCORDINGLY. ALL CEDAR SHINGLES TO BE PRESERVATIVE TREATED AND RECEIVE A "RED" STAINED FINISH. 	
Project title / Titre du projet FORT RODD HILL REROOFING AND REPAIRS 603 Fort Rodd Hill Road, Victoria, BC		Drawing title / Titre du dessin ASSEMBLY SCHEDULE ISSUED FOR ADDENDUM NO. 1 - SEPT. 19, 2016	
Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par GRAC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille SCH-0.02	

TYPE	LOCATION	DESCRIPTION (ALL MATERIALS ARE NEW UNLESS NOTED OTHERWISE)	SCHEMATIC DETAILS (n.t.s.) (EXIST. CONSTRUCTION TO BE RETAINED SHOWN TONED)
R4	TYPICAL STANDING SEAM SLOPED METAL ROOF ASSEMBLY	<ul style="list-style-type: none"> STANDING SEAM SLOPED METAL ROOFING C/W CONCEALED ATTACHMENT CLIPS 1/2" VENTILATION MAT 2 1/4" HORIZONTAL GALV. Z-GIRTS AT 2'-0" O.C. MAX. ON 1/4" PLASTIC SPACERS AT FASTENER LOCATIONS 2 1/2" EXTRUDED POLYSTYRENE INSULATION - RABBIT INSULATION AS REQ'D AT Z-GIRTS TO ENSURE A SNUG FIT SELF-ADHESIVE WATERPROOF MEMBRANE <p>OVER INTERIOR SPACE (BLDG. 10 AND 11):</p> <ul style="list-style-type: none"> EXISTING PLYWOOD SHEATHING (FIELD VERIFY) EXISTING 2x WOOD RAFTER FRAMING EXISTING AIR SPACE (FIELD VERIFY) EXISTING BATT INSULATION (FIELD VERIFY) EXISTING CROSS STRAPPING - ASSUMED EXISTING POLY VAPOUR BARRIER (FIELD VERIFY) EXISTING CEILING CLADDING <p>OVER EXTERIOR SPACE (BLDG. 10 AND 11):</p> <ul style="list-style-type: none"> EXISTING PLYWOOD SHEATHING EXISTING 2x WOOD RAFTER FRAMING <p>NOTE:</p> <ol style="list-style-type: none"> REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT AND RELATED FLASHINGS. REPLACE DETERIORATED SHEATHING / RAFTER FRAMING IF AND AS DIRECTED BY CONSULTANT (BY CONTINGENCY). HOOK OUT AND REMOVE EXISTING BATT INSULATION POLY VAPOUR BARRIER - LOCALLY RE & RE EXISTING SHEATHING AS REQUIRED ROOF PITCH VARIES - REFER ALSO TO ROOF PLAN. 	
Project title / Titre du projet FORT RODD HILL REROOFING AND REPAIRS 603 Fort Rodd Hill Road, Victoria, BC		Drawing title / Titre du dessin ASSEMBLY SCHEDULE ISSUED FOR ADDENDUM NO. 1 - SEPT. 19, 2016	
Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par GRAC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille SCH-0.03	

Project title / Titre du projet FORT RODD HILL REROOFING AND REPAIRS 603 Fort Rodd Hill Road, Victoria, BC		Drawing title / Titre du dessin WW2 HUT (BLDG. 5) STEEL STAIR ISSUED FOR ADDENDUM NO. 1 - SEPT. 19, 2016	
Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par AC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille D-3.01	

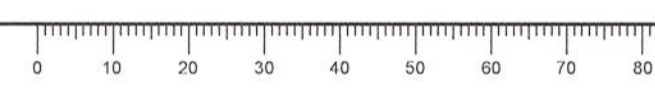
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Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par AC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille D-3.02	

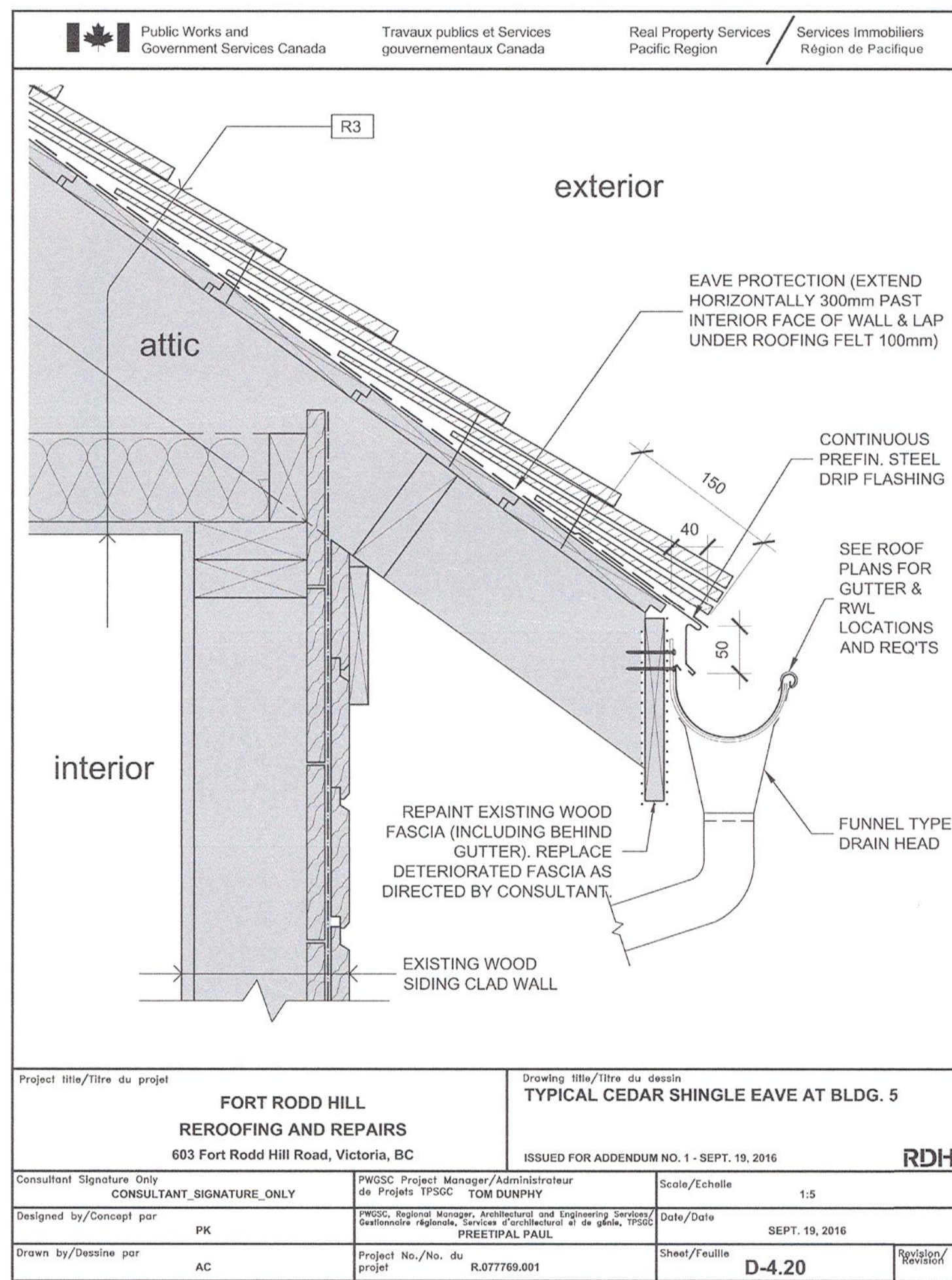
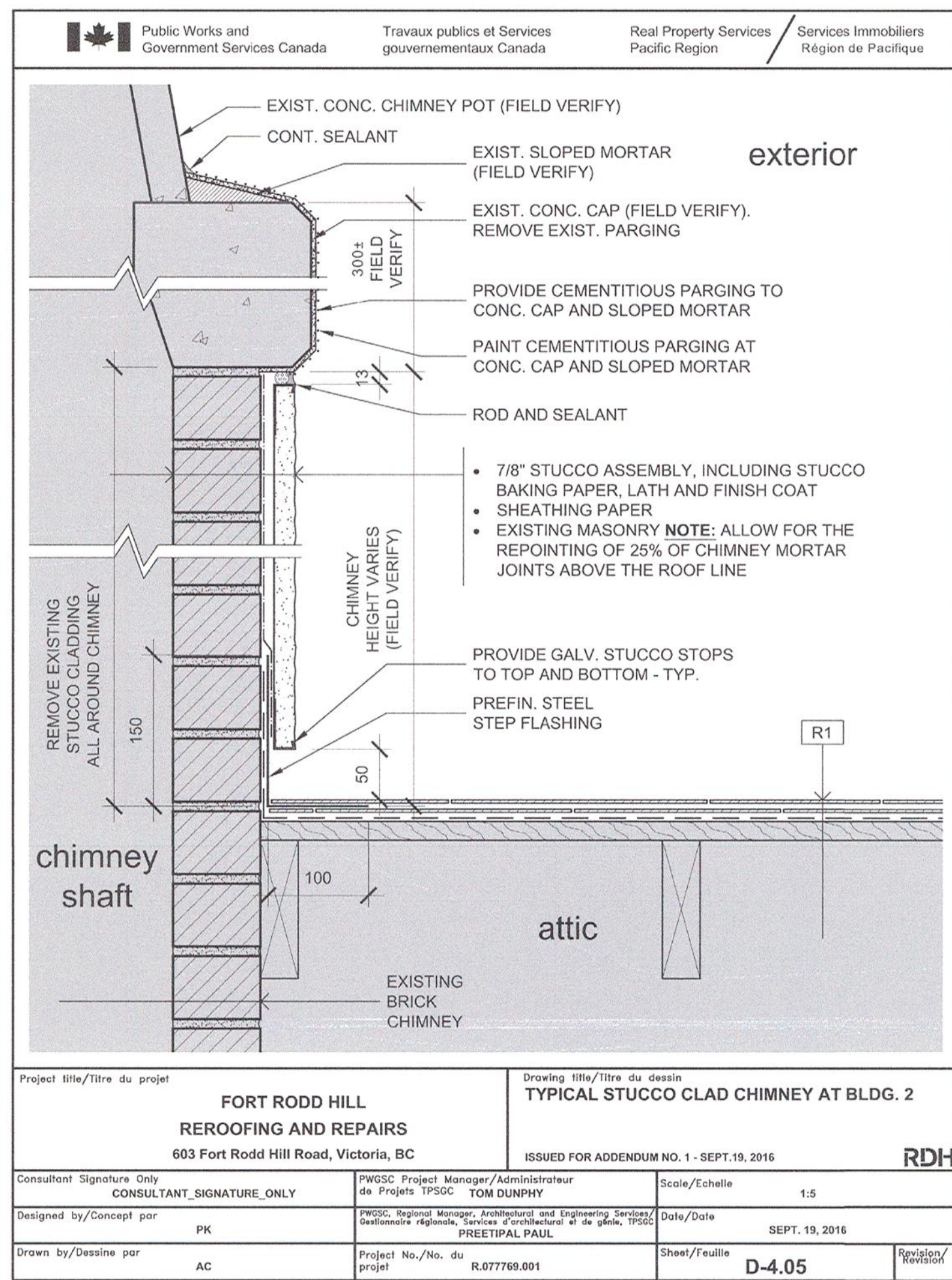
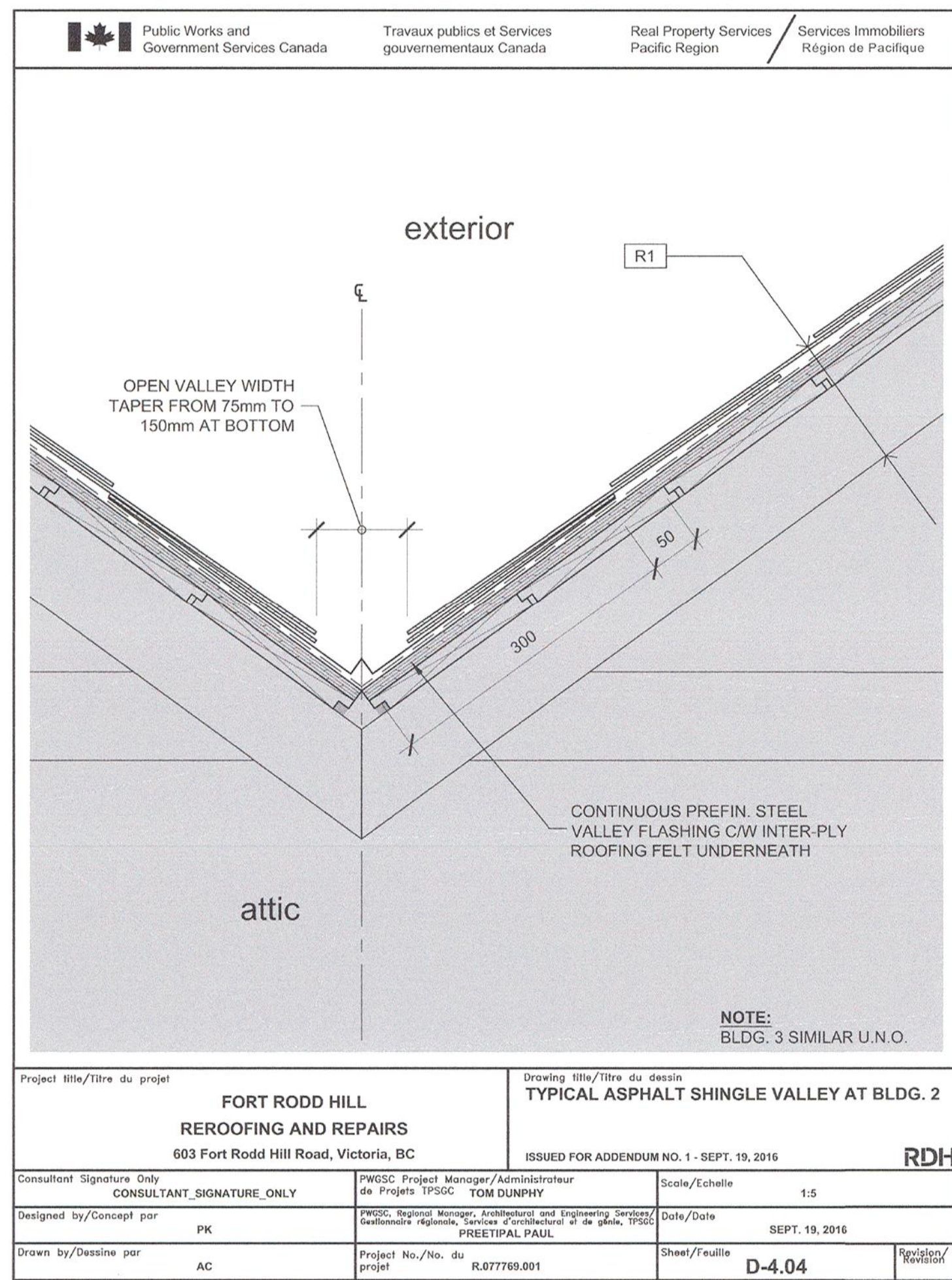
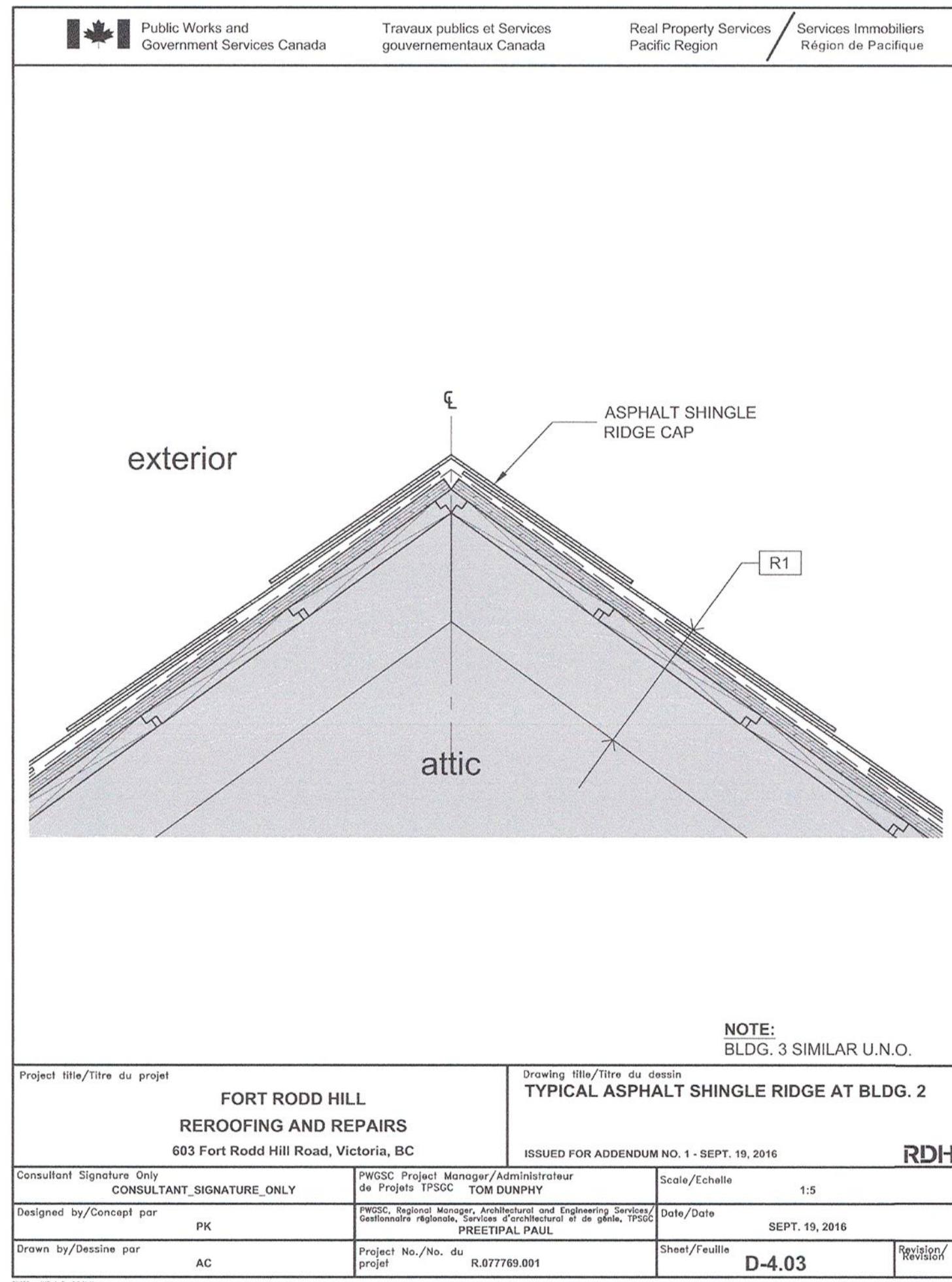
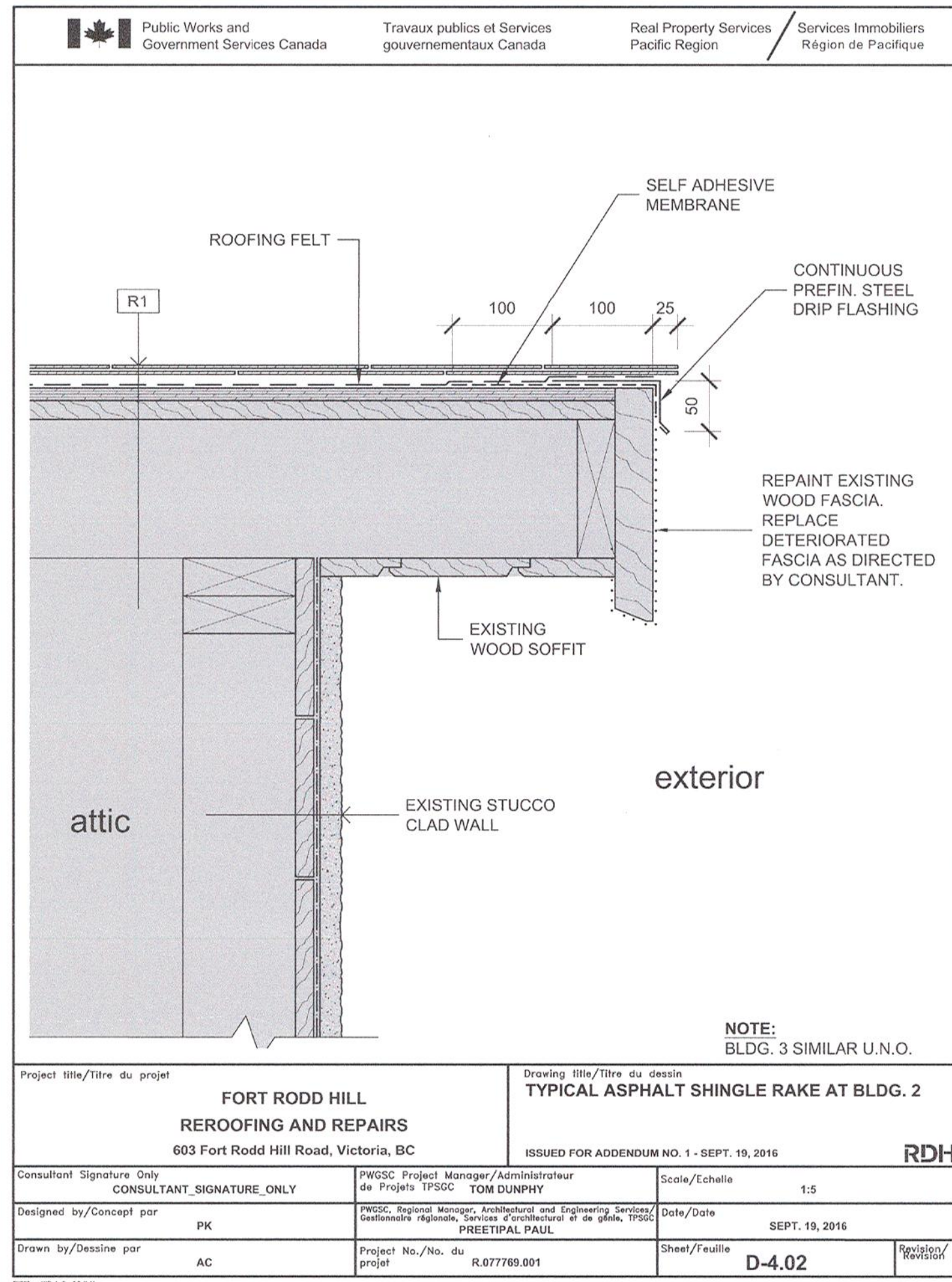
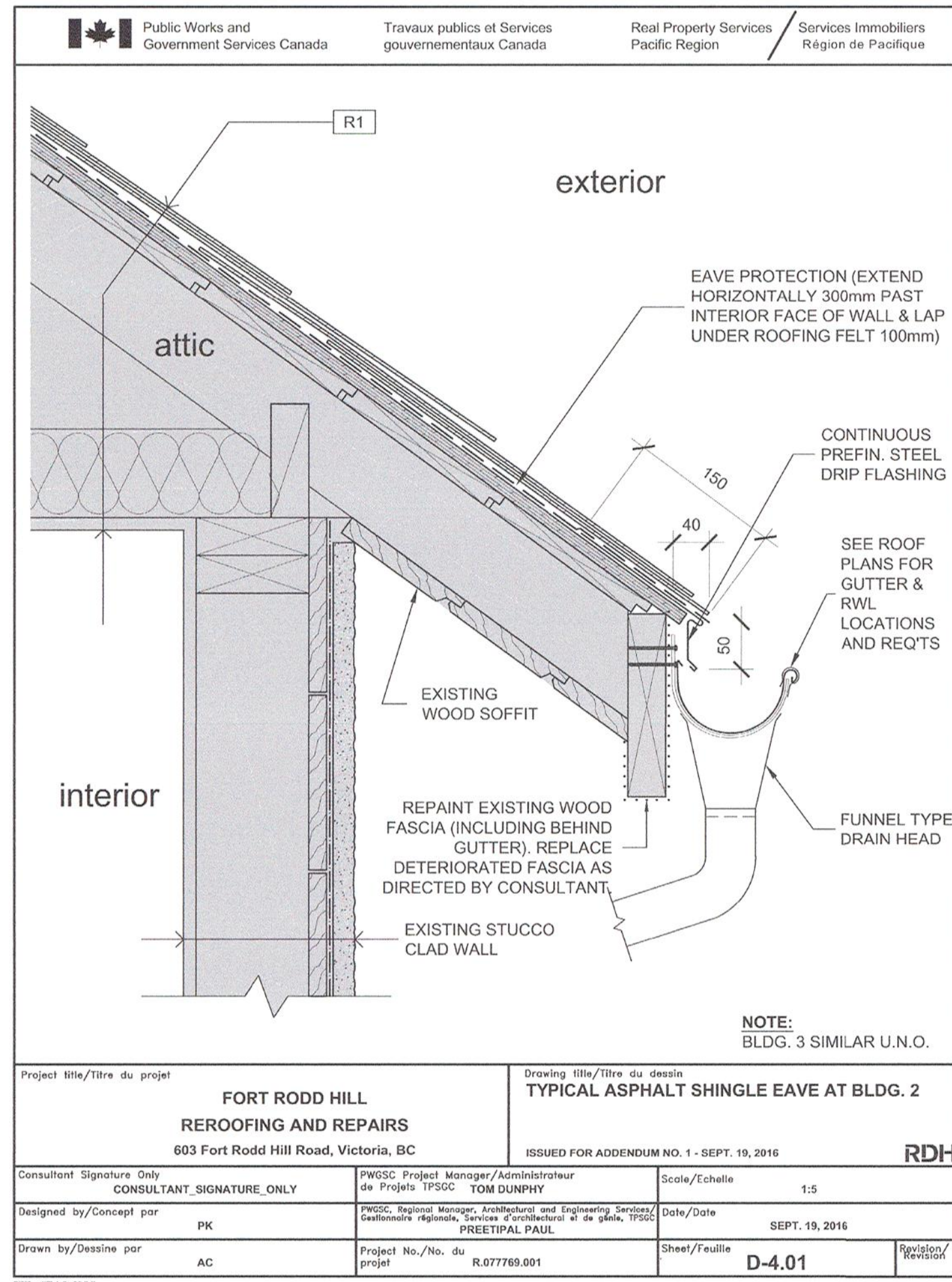
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Consultant Signature Only CONSULTANT_SIGNATURE_ONLY		PWGSC Project Manager / Administrateur de Projets TPSGC TOM DUNPHY	
Designed by / Concept par PK		Date / Date SEPT. 19, 2016	
Drawn by / Dessiné par AC		Project No. / No. du projet R.077769.001	
		Sheet / Feuille D-3.03	

REAL PROPERTY SERVICES
Services Immobiliers
Région de Pacifique

RDH

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1	ISSUED FOR ADDENDUM NO. 1	SEPT. 19, 2016
Revision / Revision	Description / Description	Date / Date
Client / client PARKS CANADA WESTERN REGION VICTORIA, B.C. NATIONAL HISTORIC SITE		
Project title / Titre du projet FORT RODD HILL REROOFING AND REPAIRS 603 Fort Rodd Hill Road, Victoria, B.C.		
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Designed by / Concept par PK		
Drawn by / Dessiné par GR / AC		
PWGSC, Project Manager / Administrateur de Projets TPSGC TOM DUNPHY		
PWGSC, Regional Manager, Architectural and Engineering Services / Géomatics régionale, Services d'architecture et de génie, TPSGC PREETIPAL PAUL		
Drawing title / Titre du dessin SCHEDULE AND DETAILS SCALE: AS INDICATED		
Project no. / no. du projet R.060702.001	Sheet / Feuille BE1.3	Revision no. / La Revision no.





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Drawn by / Dessiné par: GR / AC

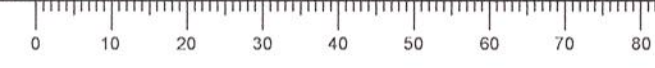
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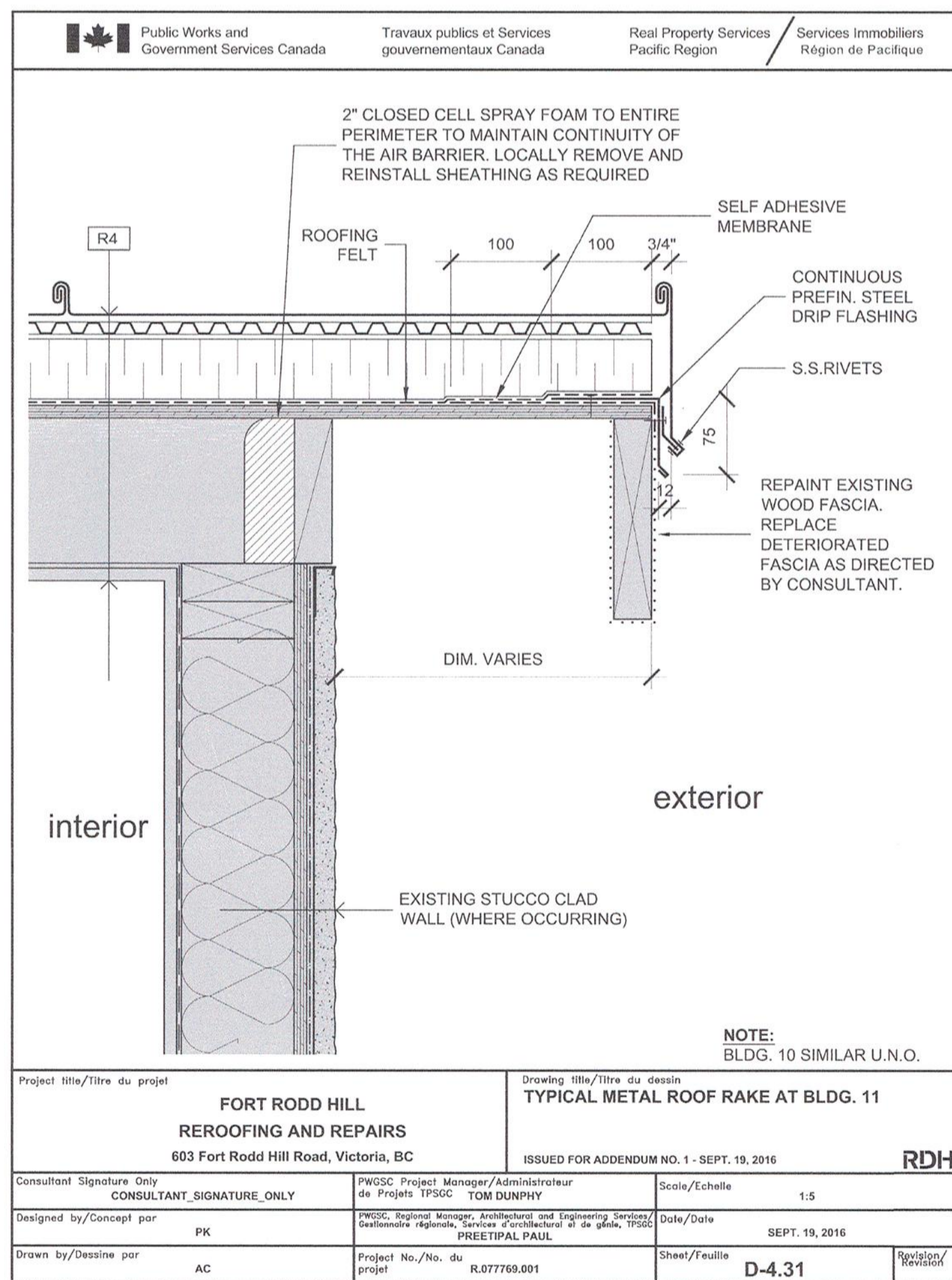
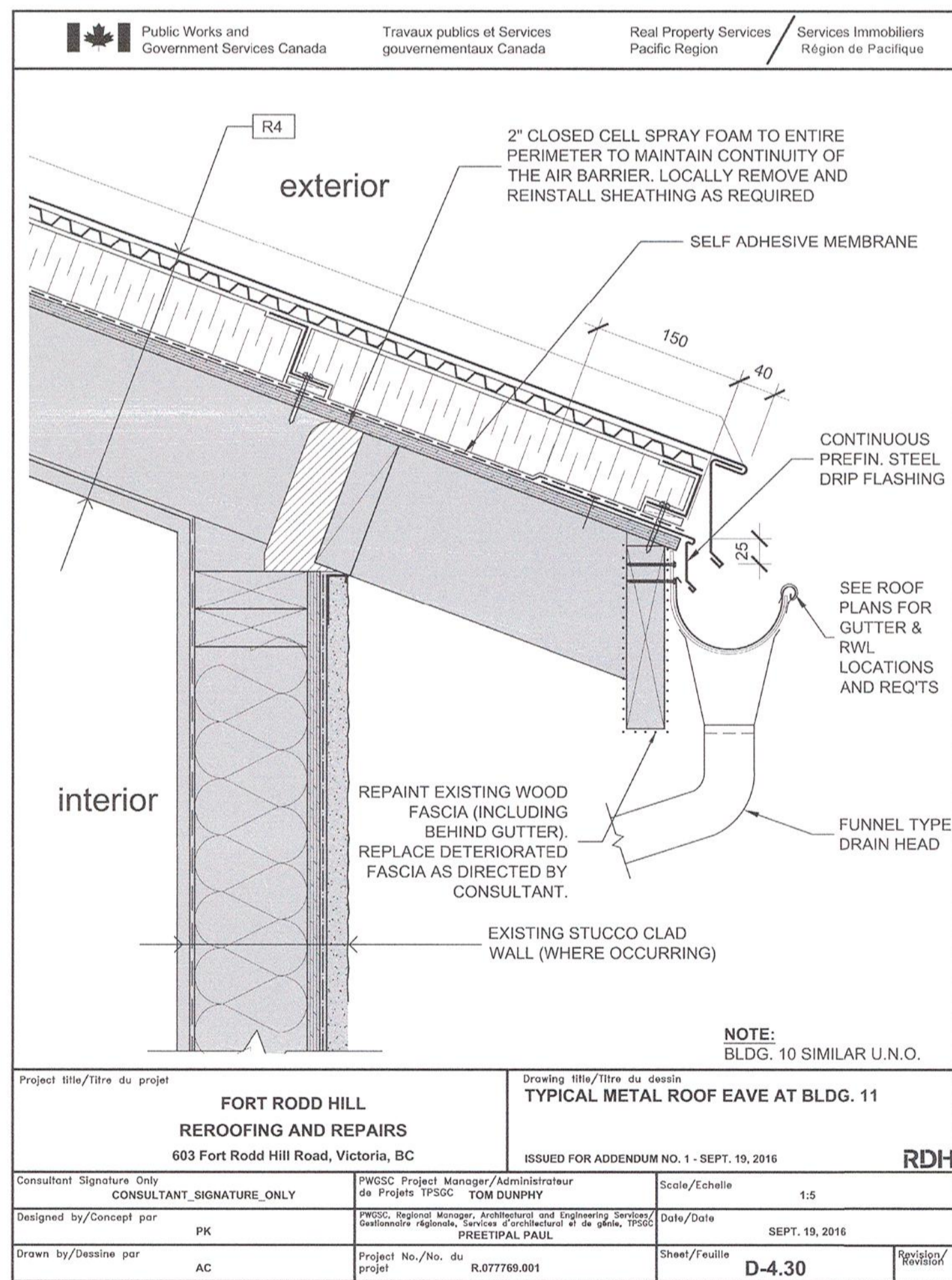
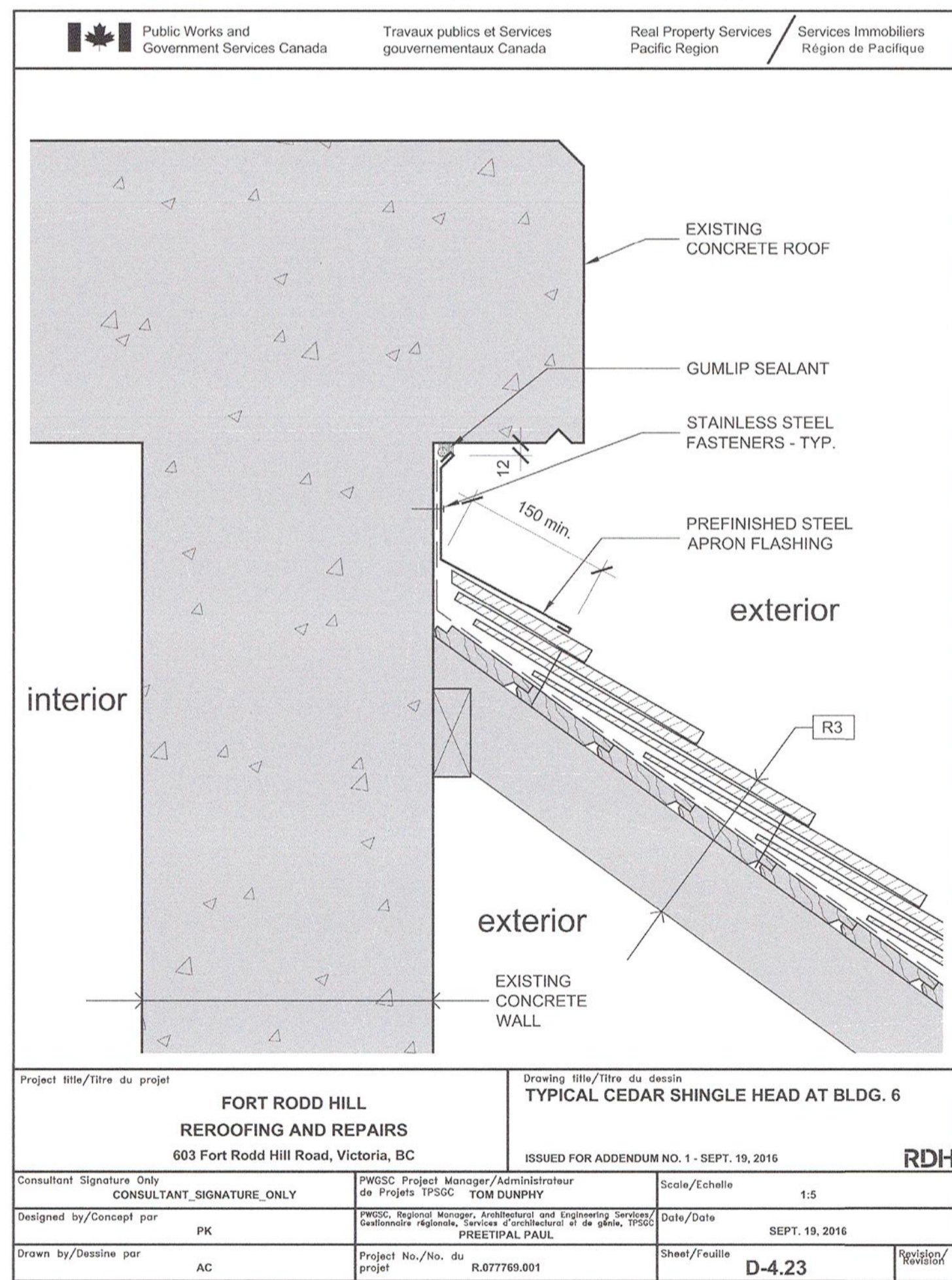
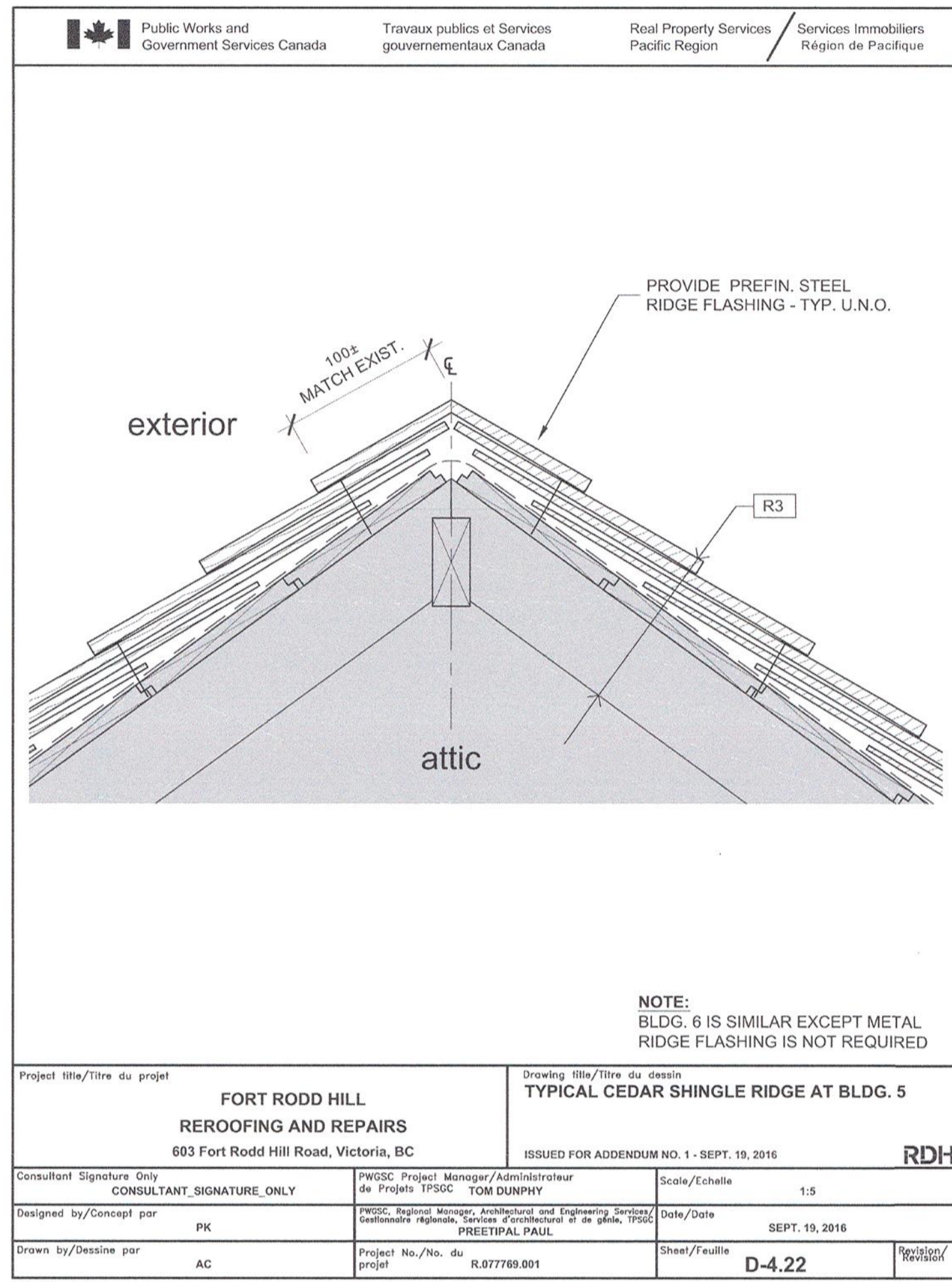
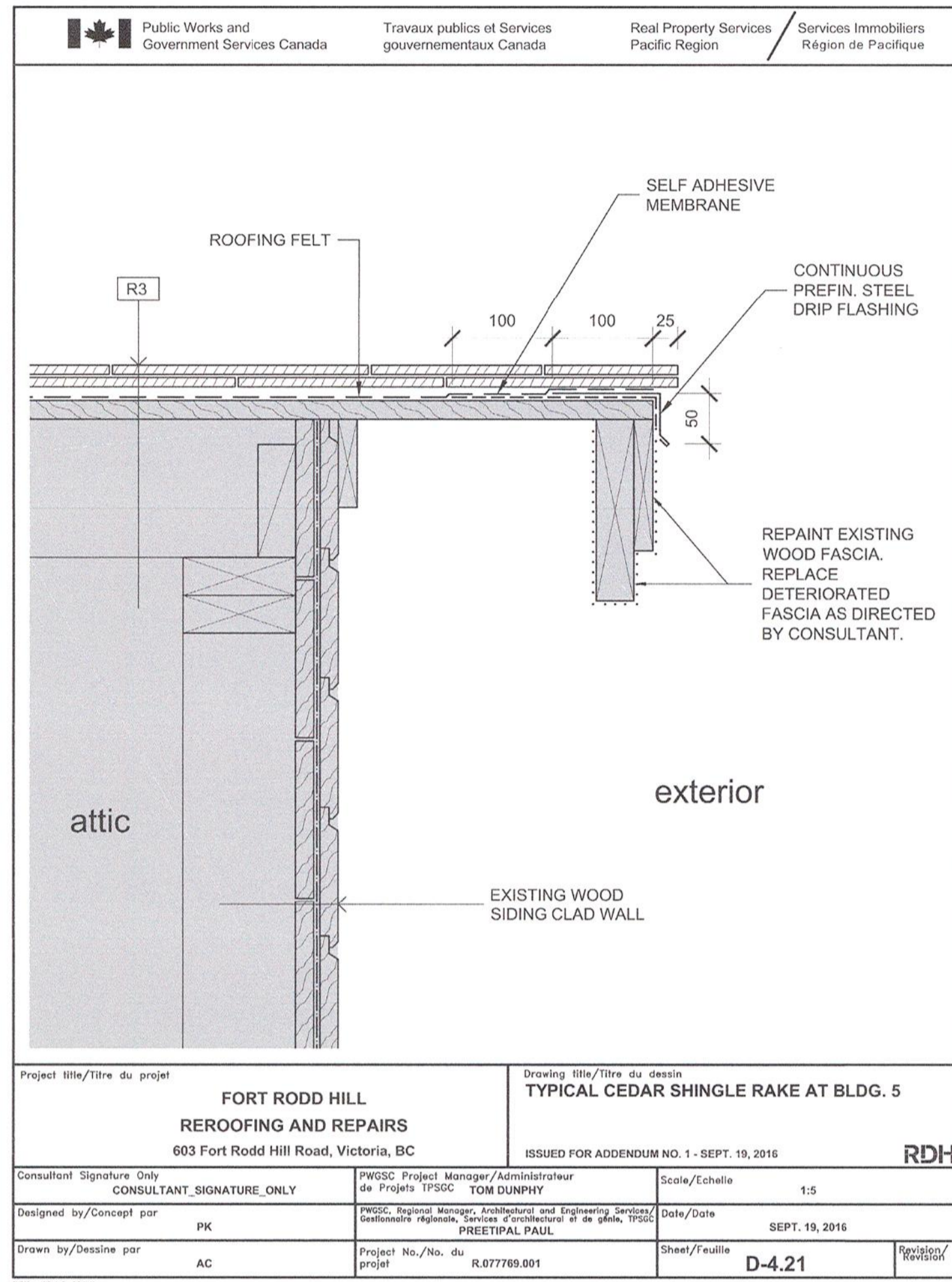
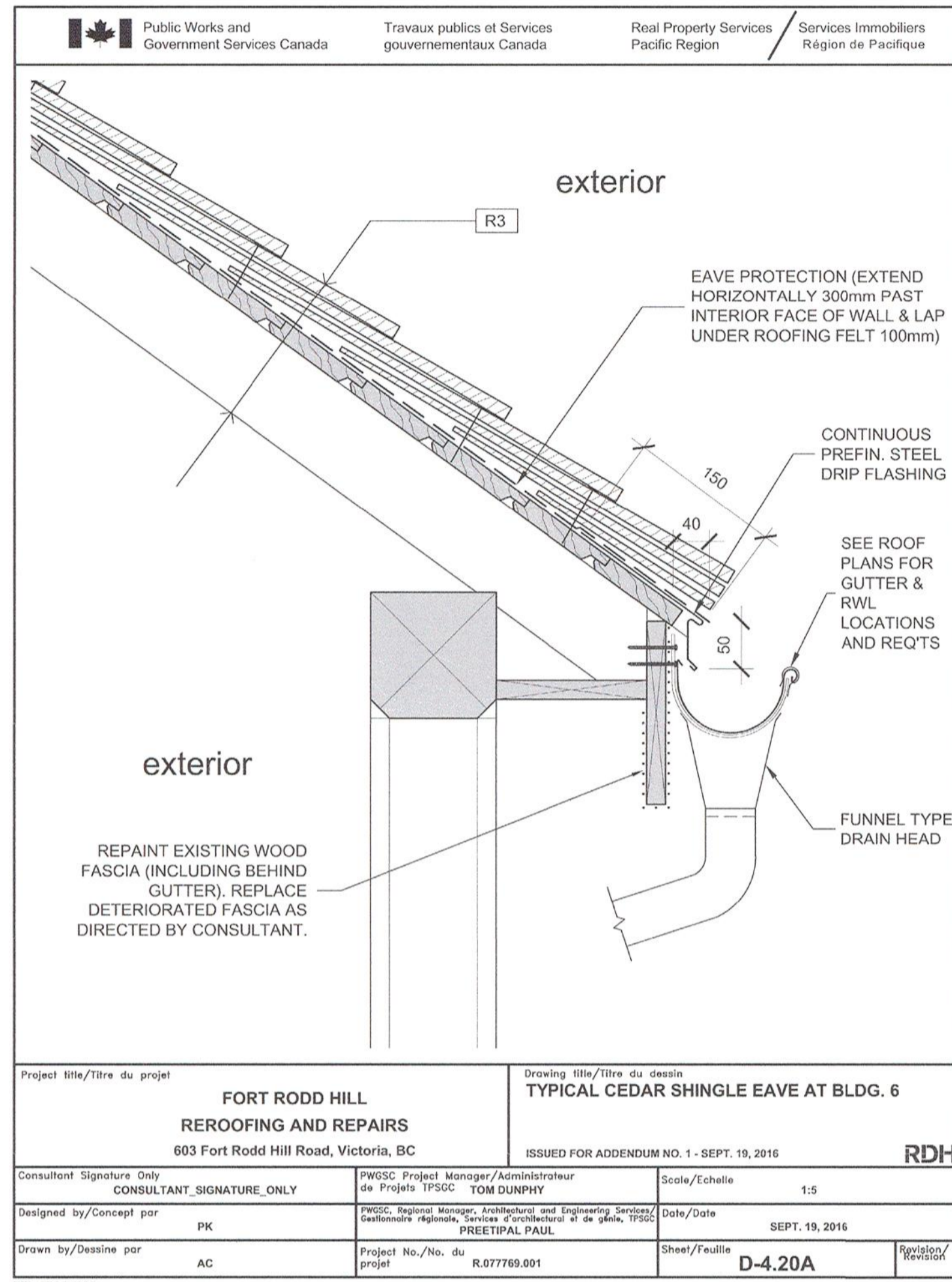
PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC: PREETIPAL PAUL

Drawing title / Titre du dessin: DETAILS SCALE: AS INDICATED

Project no. / no. du projet: R.060702.001	Sheet / Feuille: BE1.4	Revision no. / La Revision: 5
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REGISTERED ARCHITECT
PAUL CHRISTOPHER LEWIS
BRITISH COLUMBIA
SEP 19 2016





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Client / client: PARKS CANADA WESTERN REGION, VICTORIA, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: FORT RODD HILL REROOFING AND REPAIRS, 603 Fort Rodd Hill Road, Victoria, B.C.

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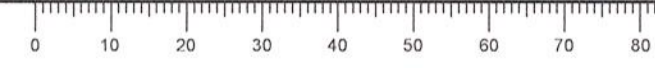
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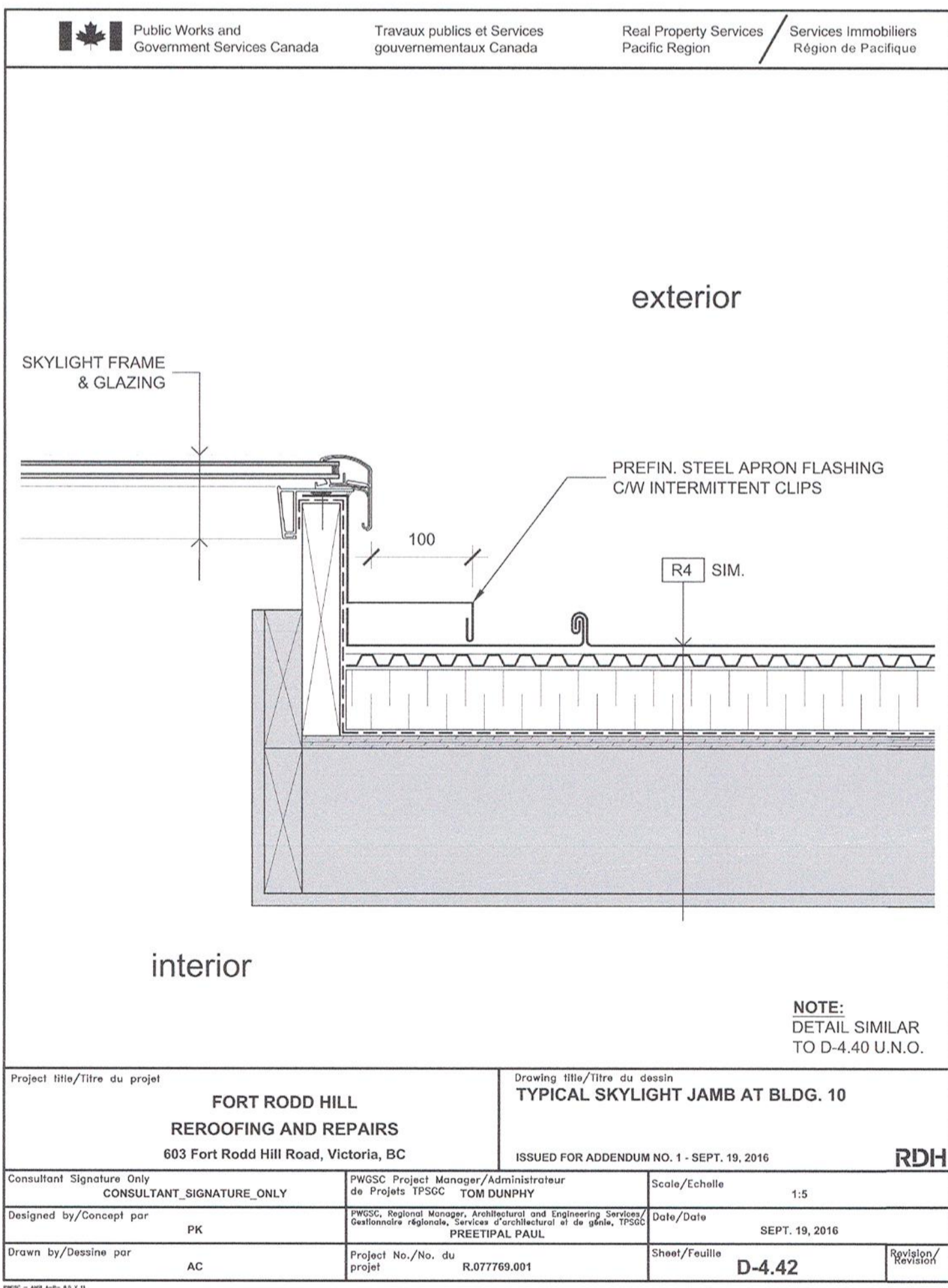
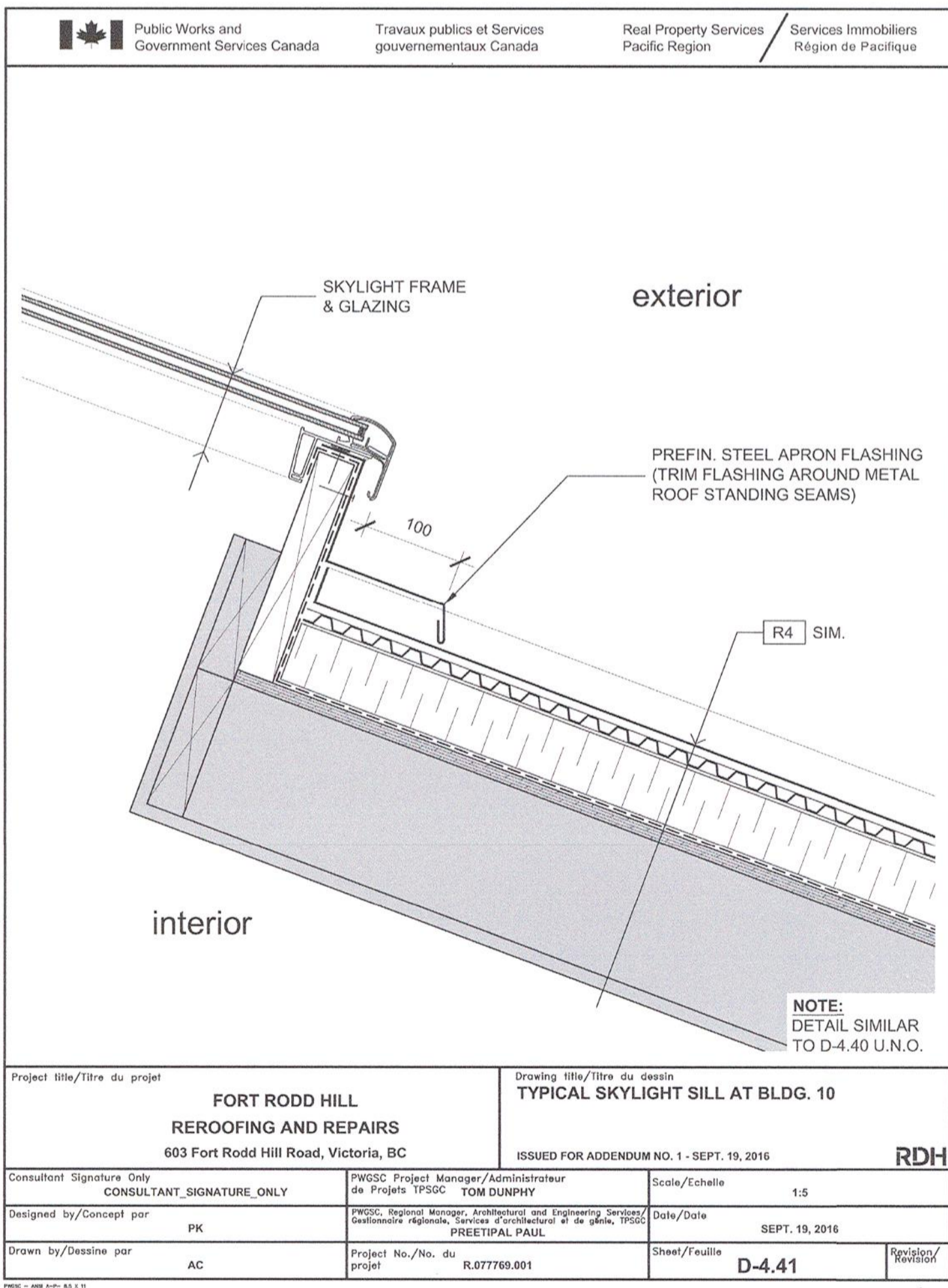
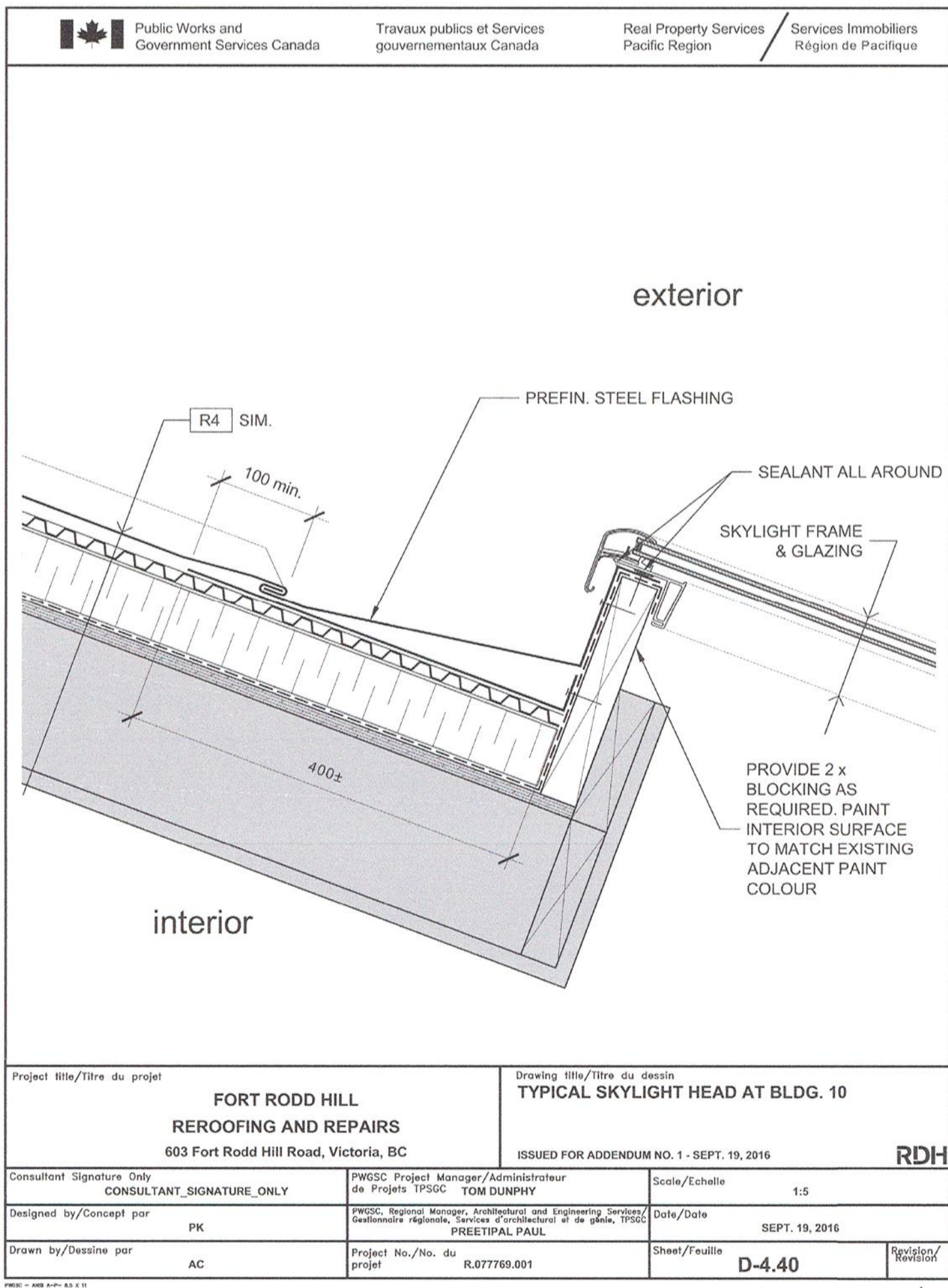
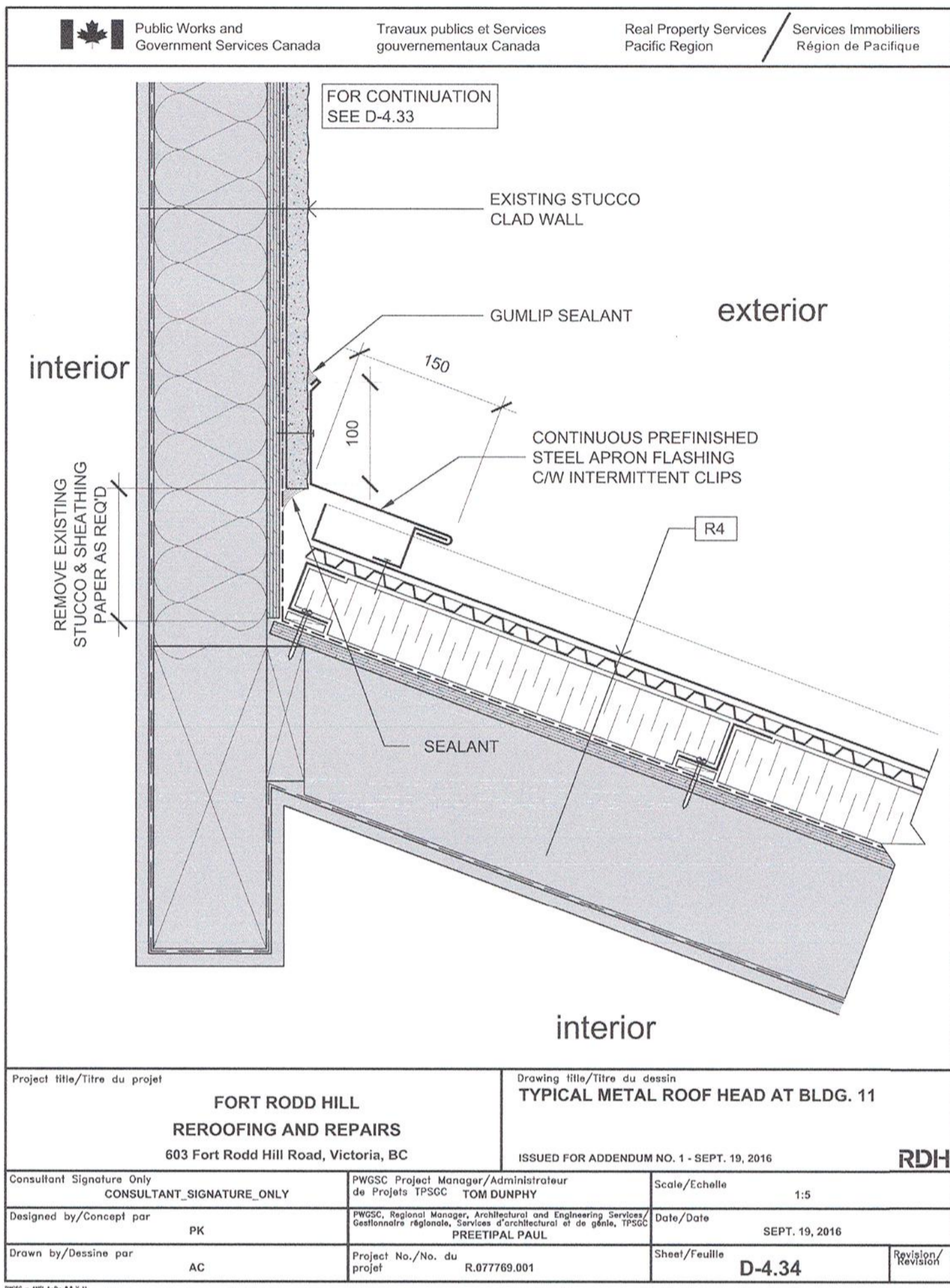
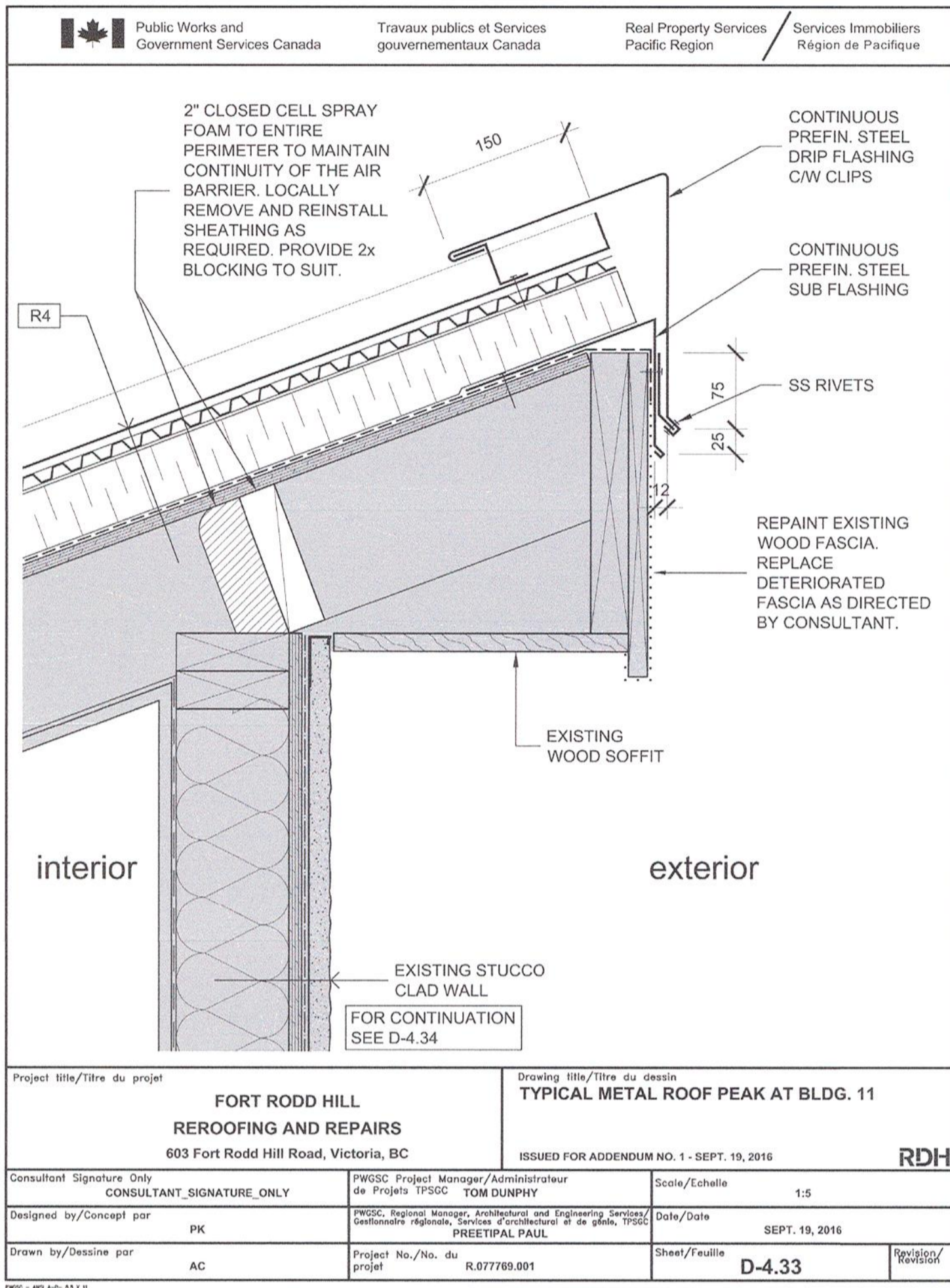
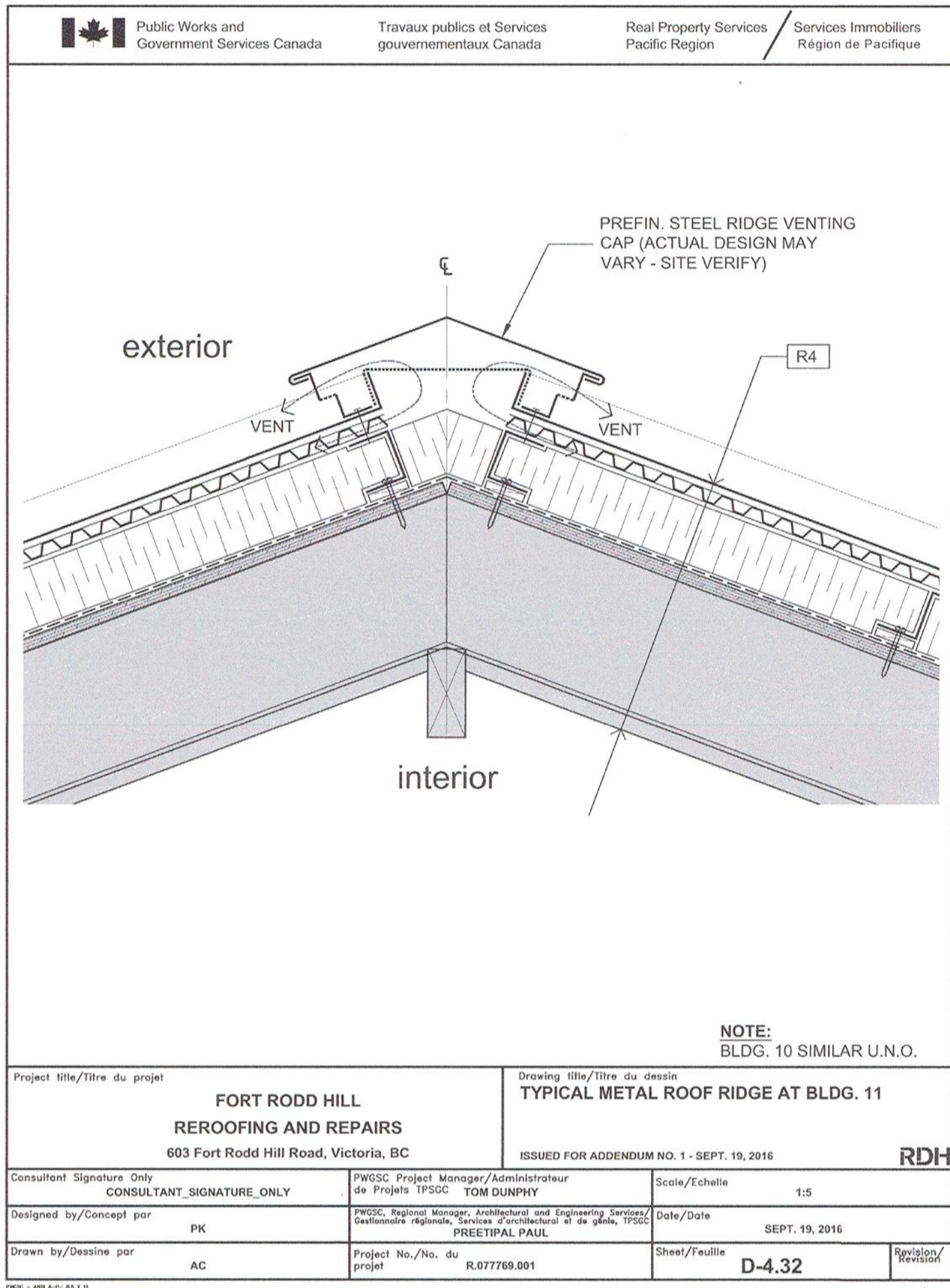
PWGSC, Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

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Project no. / no. du projet: R.060702.001 | Sheet / Feuille: BE1.5 | Revision no. / Révision: 1





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REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique

RDH

REGISTERED ARCHITECT
PAUL CHRISTOPHER KEENE
BRITISH COLUMBIA
Sept 19 2016

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1	ISSUED FOR ADDENDUM NO. 1	SEPT. 19, 2016
Revision / Revision	Description / Description	Date / Date

Client / client: PARKS CANADA WESTERN REGION, VICTORIA, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: FORT RODD HILL REROOFING AND REPAIRS, 603 Fort Rodd Hill Road, Victoria, B.C.

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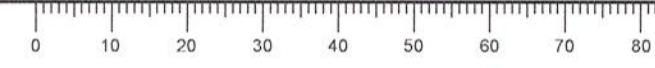
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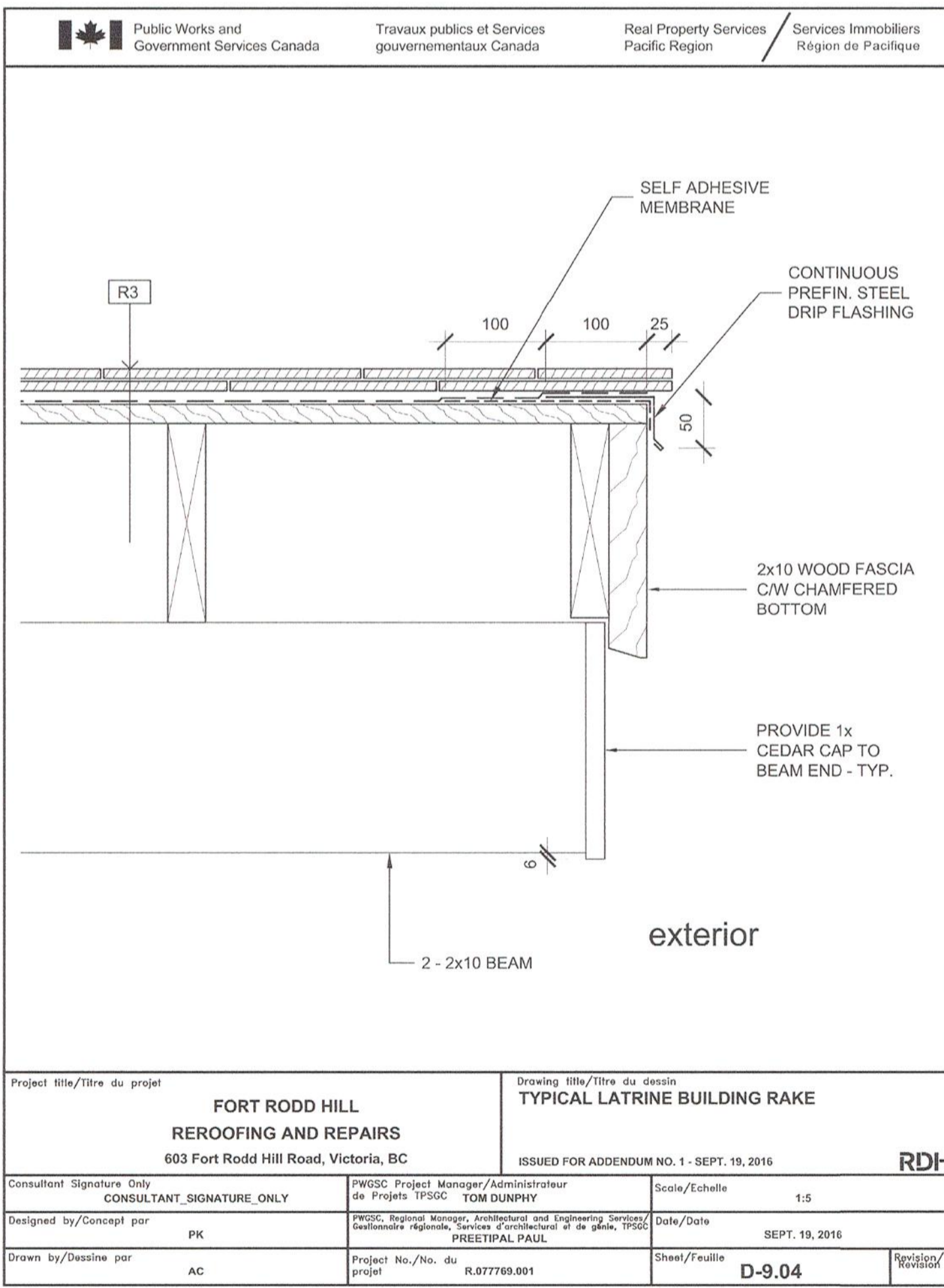
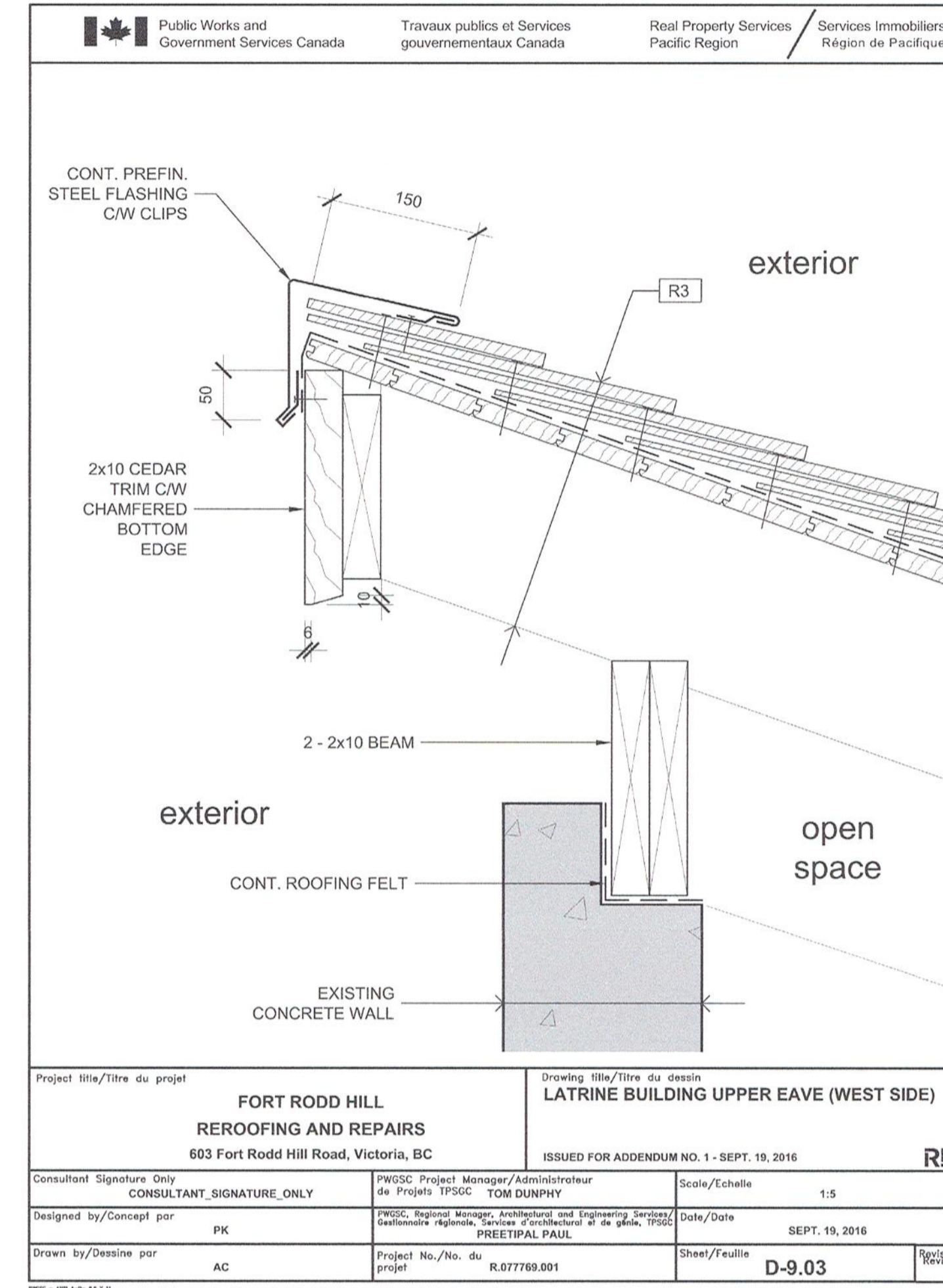
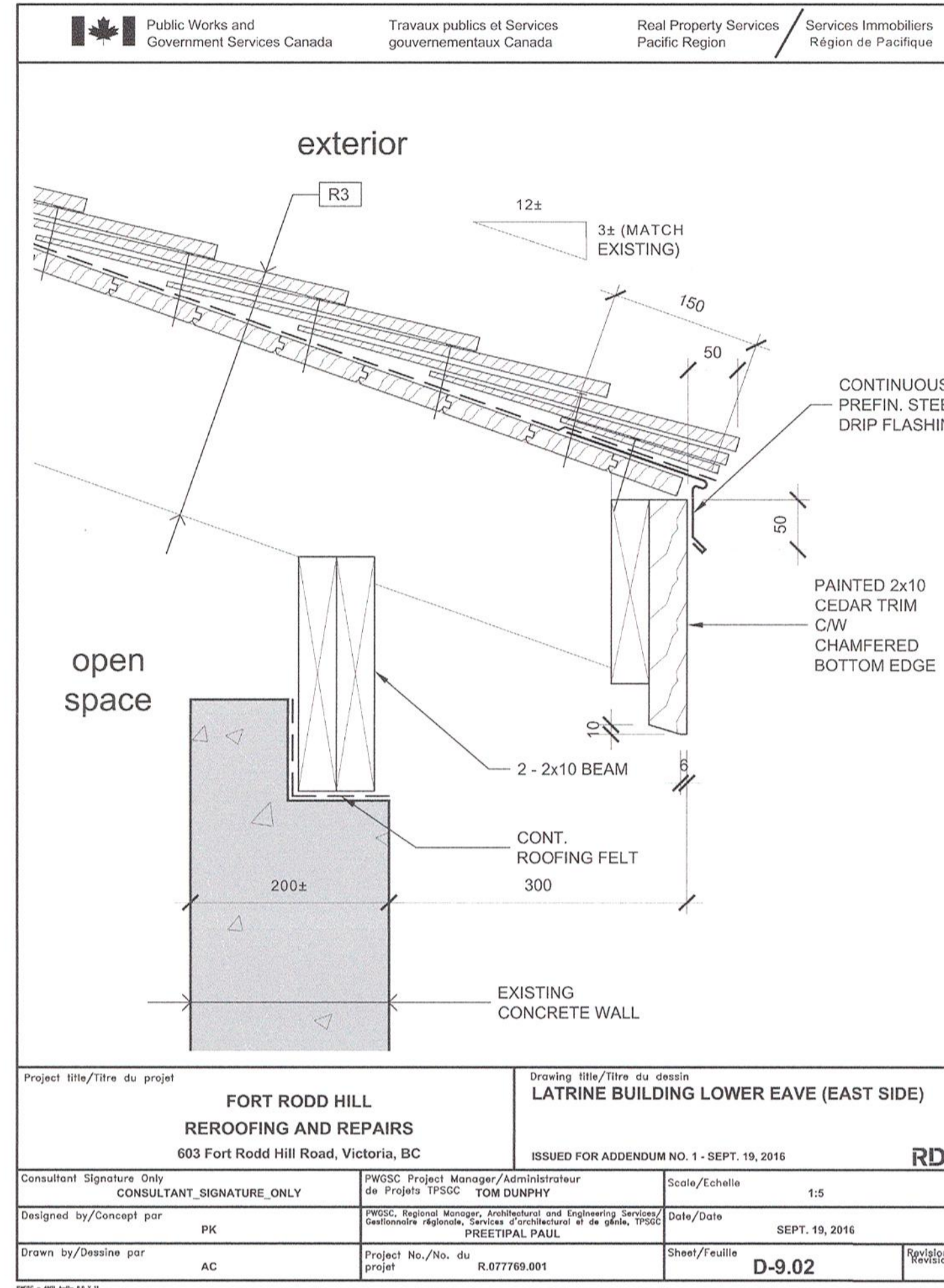
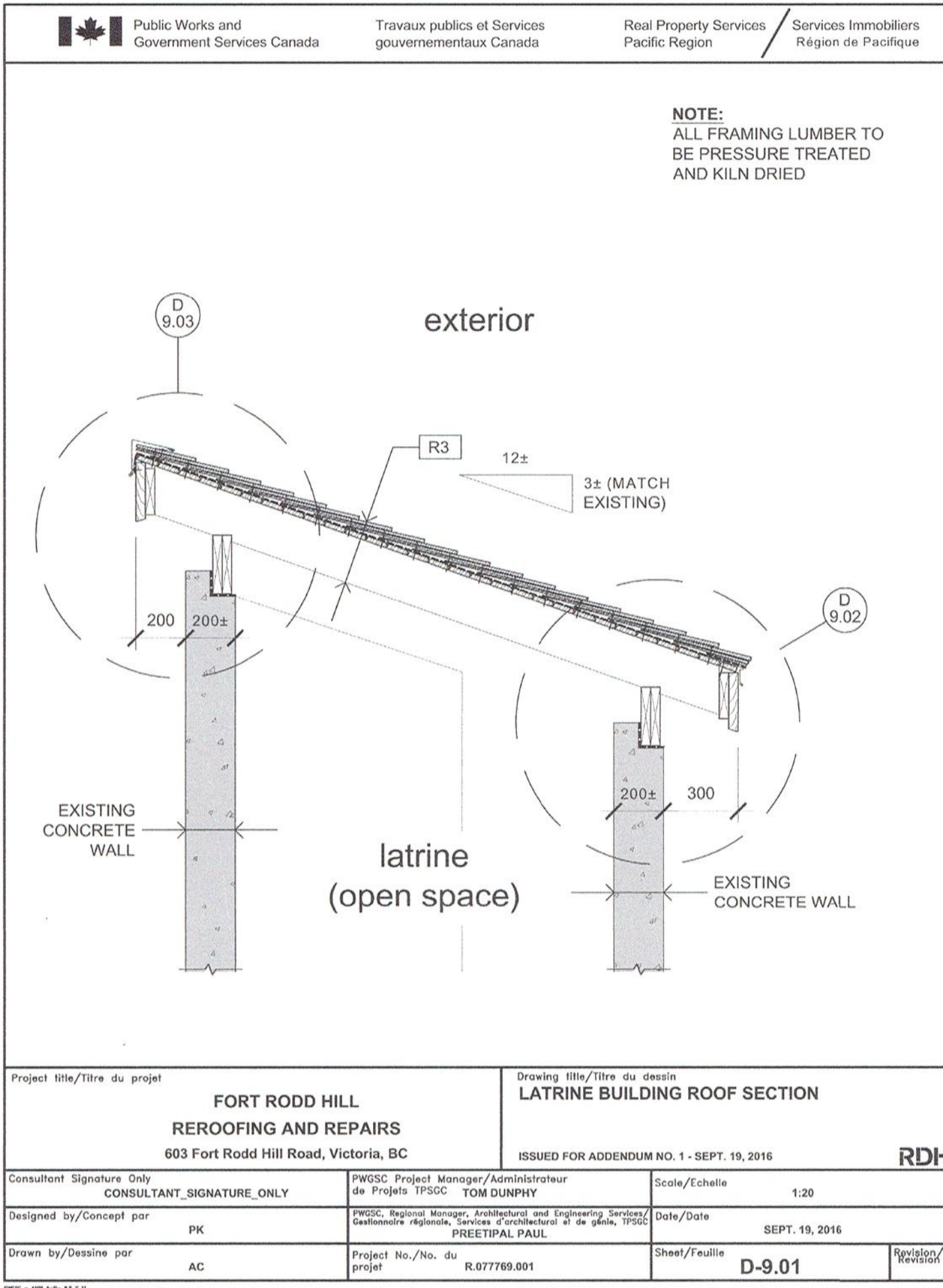
PWGSC, Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie: PREEETIPAL PAUL

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Client / client: PARKS CANADA WESTERN REGION, VICTORIA, B.C. NATIONAL HISTORIC SITE

Project title / Titre du projet: FORT RODD HILL REROOFING AND REPAIRS, 603 Fort Rodd Hill Road, Victoria, B.C.

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PWGSC, Project Manager / Administrateur de Projets TPSGC: TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

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R.060702.001	BE1.7	

