

ROOF SEISMIC UPGRADE ROOFING AND BUILDING ENVELOPE PROJECT

PENTICTON AIR TERMINAL BUILDING

3000 AIRPORT RD, PENTICTON, B.C.

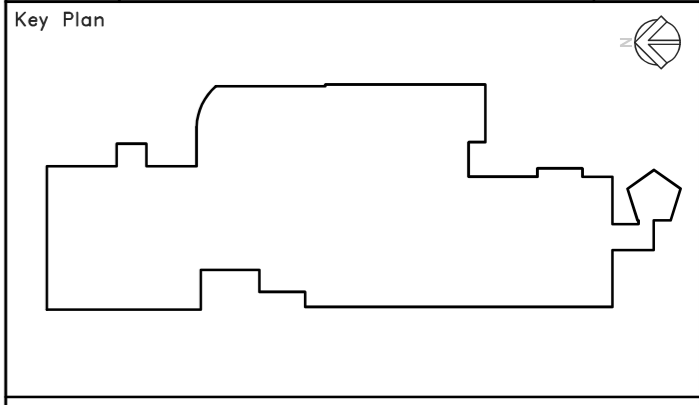


LIST OF DRAWINGS	
R-0.0	COVER PAGE AND SITE PLAN
R-1.0	GENERAL NOTES
R-2.0	MAIN FLOOR PLAN
R-2.1	ROOF PLAN
R-3.0	BUILDING ELEVATIONS
R-4.0	WALL DETAILS
R-4.1	WALL DETAILS
R-4.2	ROOF DETAILS
R-4.3	ROOF DETAILS
R-4.4	SKYLIGHT AND ROOF DETAILS
R-4.5	WINDOW DETAILS
R-4.6	DOOR DETAILS
R-4.7	WINDOW FIN DETAILS
R-5.0	GLAZING SCHEDULE
ARCHITECTURAL	
A1	PROPOSED ELEVATIONS
A2	PROPOSED ELEVATIONS
STRUCTURAL	
S4.00	GENERAL NOTES
S4.01	EXISTING ROOF UPGRADE PLAN & SECTIONS
S4.02	NEW ROOFTOP UNIT LAYOUT PLAN & SUPPORT DETAIL PLANS
MECHANICAL	
M001	SITE PLAN, GENERAL NOTES, MECHANICAL LEGEND, MECHANICAL DRAWING LIST
M002	SUPPLEMENTAL REQUIREMENTS
M003	SITE PHOTOS AND SCHEMATICS
M101	LEVEL 1 - HVAC DEMOLITION
M102	ROOF - HVAC DEMOLITION
M201	LEVEL 1 - HVAC NEW
M202	ROOF - HVAC NEW
M601	MECHANICAL EQUIPMENT SCHEDULES
ELECTRICAL	
E-001	ELECTRICAL NOTES, SYMBOL LEGEND, KEY PLAN, AND PANEL SCHEDULES
E-002	ELECTRICAL PANEL PHOTOS AND MOTOR LIST
E-100	ELECTRICAL FLOOR PLAN

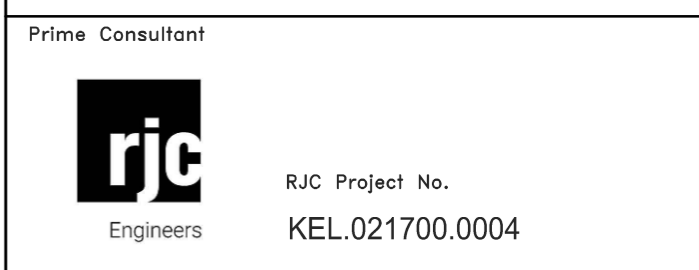
LIST OF CONSULTANTS	
ENVELOPE/RESTORATION - RJC ENGINEERS	
ARCHITECTURAL - MEIKLEJOHN ARCHITECTS INC.	
STRUCTURAL - CWMM CONSULTING ENGINEERS LTD.	
MECHANICAL - STANTEC	
ELECTRICAL - STANTEC	

CIVIC ADDRESS:
3000 AIRPORT ROAD,
PENTICTON, B.C. V2A 8X1

Revision/Revision	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
3	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21
2	ISSUED FOR 90% REVIEW	APR 9/20
1	ISSUED FOR 75% REVIEW	MAR 6/20



Sub-Consultant



Client/client
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800 BARRARD ST
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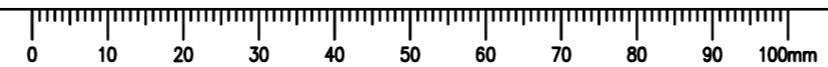
Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

Designed by/Concept par
MDB
Drawn by/Dessine par
BPT
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
COVER PAGE AND SITE PLAN

Project No./No. du projet R.105676.001	Sheet/Feuille R-0.0 1 OF 14	Revision no./Lo Révision no. 4
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SITE PLAN
N.T.S.



FIELD REVIEW BY THE DEPARTMENTAL REPRESENTATIVE

- THE DEPARTMENTAL REPRESENTATIVE PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. THIS REVIEW IS NOT A 'FULL TIME' REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS THE DEPARTMENTAL REPRESENTATIVE DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY THE DEPARTMENTAL REPRESENTATIVE. FIELD REVIEW BY THE DEPARTMENTAL REPRESENTATIVE IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE THE DEPARTMENTAL REPRESENTATIVE GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE DEPARTMENTAL REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

THE DEPARTMENTAL REPRESENTATIVE WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON THE DEPARTMENTAL REPRESENTATIVE'S DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF THE DEPARTMENTAL REPRESENTATIVE AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE BUILDING ENVELOPE DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS, RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- PROVIDE 24 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE DEPARTMENTAL REPRESENTATIVE.
- THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE IN NATURE.


GENERAL SCOPE OF WORK

- REFER TO SPECIFICATION 01 11 00 – SUMMARY OF WORK.

ABBREVIATIONS

ACCOM. --- ACCOMMODATE	MECH. --- MECHANICAL
ALT. --- ALTERNATE	MIN. --- MINIMUM
ALUM. --- ALUMINUM	N.I.C. --- NOT IN CONTRACT
ARCH. --- ARCHITECTURAL	N.T.S. --- NOT TO SCALE
BOT. --- BOTTOM	O.C. --- ON CENTRE
BTWN. --- BETWEEN	OPP. --- OPPOSITE
CANTIL. --- CANTILEVER	PL. --- PROPERTY LINE
CL. --- CENTER LINE	P.T. --- PRESERVATIVE TREATED
CLR. --- CLEAR	R.W.L. --- RAIN WATER LEADER
CONC. --- CONCRETE	R.D. --- ROOF DRAIN
CONT. --- CONTINUOUS	RTN. --- RETURN
C/W --- COMPLETE WITH	REIN. --- REINFORCED
DET. --- DETAIL	R/W --- REINFORCED WITH
DP. --- DEEP (i.e. DEPTH OF BEAM)	REQ'D --- REQUIRED
DWG. --- DRAWING	S.A.M. --- SELF-ADHERING MEMBRANE
DWLS. --- DOWELS	SIM. --- SIMILAR
ELEV. --- ELEVATION	S.O.G. --- SLAB ON GRADE
ELEC. --- ELECTRICAL	SPEC. --- SPECIFICATIONS
E.S. --- EACH SIDE	S.S. --- STAINLESS STEEL
E.W. --- EACH WAY	STRUCT. --- STRUCTURAL
EXIST. --- EXISTING	T.D.C. --- TRAFFIC DECK COATING
EXT. --- EXTERIOR	THK. --- THICK
F.D. --- FLOOR DRAIN	THRU --- THROUGH
GALV. --- GALVANIZED	T & B --- TOP AND BOTTOM
G.L. --- GRID LINE	T & G --- TONGUE AND GROOVE
G.W.B. --- GYPSUM WALL BOARD	T.O.S. --- TOP OF SLAB
H & V --- HORIZONTAL AND VERTICAL	U.N.O. --- UNLESS NOTED OTHERWISE
HORIZ. --- HORIZONTAL	U/S --- UNDERSIDE
INT. --- INTERIOR	VERT. --- VERTICAL
LG. --- LONG	W/ --- WITH
MAX. --- MAXIMUM	
MANUF. --- MANUFACTURED	

GENERAL NOTES

- DEFINITIONS:**
A. THE DEPARTMENTAL REPRESENTATIVE: PWGSC PROJECT MANAGER OR AUTHORIZED REPRESENTATIVE.
- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. IT DOES NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORM WORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- THE INFORMATION ON THIS DRAWING SHALL NOT BE USED FOR ANYTHING OTHER THAN THE SPECIFIED WORKS OR PART OF THE WORKS FOR WHICH IT HAS BEEN AUTHORIZED BY THE DEPARTMENTAL REPRESENTATIVE.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN, AND SIGNED AND STAMPED BY THE DEPARTMENTAL REPRESENTATIVE. THE DRAWINGS SHALL NOT BE USED FOR PRICING OR TENDER UNLESS SO INDICATED IN THE REVISIONS COLUMN.
- SECTION MARK SHOWN THUS  MEANS SECTION #4 ON DRAWING R-3.1.
- THE CONTRACT DOCUMENTS ARE BASED ON DIMENSIONS FROM SUBSEQUENT EXPANSION PROJECT DRAWINGS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH STANDARD DETAILING AND CONSTRUCTION PRACTICE. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE DEPARTMENTAL REPRESENTATIVE OF ANY VARIATIONS FROM THE ASSUMED CONDITIONS. IT IS UNDERSTOOD THAT MINOR MODIFICATIONS MAY BE REQUIRED TO THE WORK INDICATED. THE CONTRACTOR SHALL COOPERATE WITH THE DEPARTMENTAL REPRESENTATIVE IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT RESULT IN A CHANGE IN CONTRACT PRICE. DO NOT PROCEED WITH MODIFICATIONS TO THE EXISTING STRUCTURE OR THE NEW WORK WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- THE DEPARTMENTAL REPRESENTATIVE'S DRAWINGS, WHETHER IN ELECTRONIC FORMAT OR HARD COPY, MAY NOT BE USED AS OR MODIFIED TO PROVIDE SHOP DRAWINGS UNLESS:
- THE DEPARTMENTAL REPRESENTATIVE IS COMPENSATED FOR THE DRAWINGS AND
- THE CONTRACTOR RESPONSIBLE FOR THE SHOP DRAWINGS SIGNS THE DEPARTMENTAL REPRESENTATIVE'S STANDARD AUTHORIZATION AND WAIVER FORM.
- COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.
- DO NOT OVERLOAD THE STRUCTURE. ENSURE ALL REASONABLE PRECAUTIONS ARE TAKEN TO PREVENT DAMAGE TO THE UNDERLYING STRUCTURES REMAINING IN PLACE. PROVIDE SHORING AS NECESSARY TO PREVENT OVERLOADING OF THE STRUCTURE DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR TO ENSURE THAT EXISTING STRUCTURAL MEMBERS AND SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, SAWCUTTING, HOLE AUGURING OR OTHER CONSTRUCTION ACTIVITIES.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO ENSURE THAT EXISTING AIR AND VAPOUR BARRIERS ARE MAINTAINED IN AREAS OF CONSTRUCTION. ANY INADEQUACIES IN AIR OR VAPOUR BARRIERS TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE.

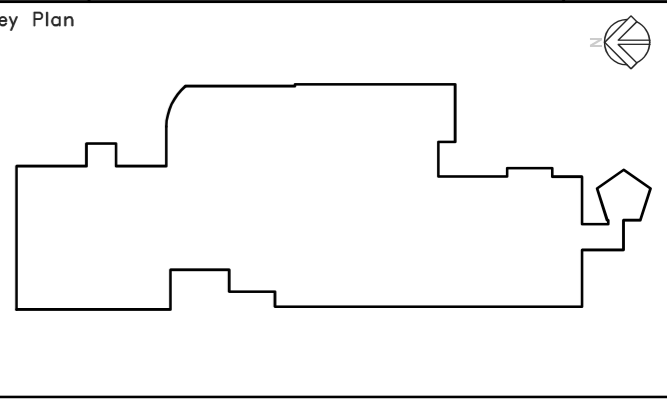
DESIGN PARAMETERS

- THE COMPLETED BUILDING ENVELOPE UPGRADE SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE 2018 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2015.
- THIS BUILDING ENVELOPE RESTORATION HAS BEEN DESIGNED USING RAINSCREEN PRINCIPLES. THIS ASSEMBLY RELOCATES THE AIR AND VAPOUR BARRIER AND INSULATION TO THE OUTSIDE OF THE EXTERIOR SHEATHING TO BETTER CONTROL VAPOUR TRANSFER, AIR LEAKAGE, AND ENHANCE THE THERMAL PROPERTIES OF THE WALL. THE LOCATION OF THE VAPOUR BARRIER DEFENDS ON CONFIRMATION OF THE EXISTING WALL ASSEMBLIES. CONTRACTOR TO CONFIRM EXISTENCE AND LOCATION OF VAPOUR BARRIER.
- WINDOW SYSTEMS ARE EXPECTED TO PROVIDE A LEVEL OF PERFORMANCE COMMENSURATE WITH THE EXPECTED DESIGN SERVICE LIFE OF THIS PROJECT (CSA A440 – A3, B5, C3).

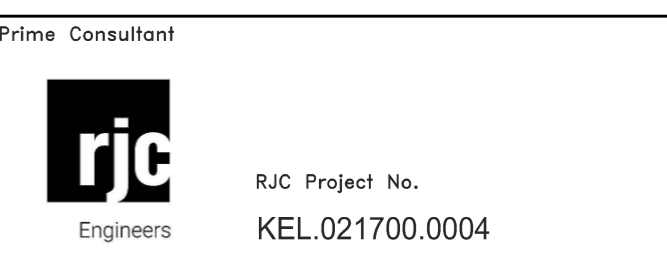
NON-BUILDING ENVELOPE ELEMENTS

- 'NON-BUILDING ENVELOPE' OR 'SECONDARY STRUCTURAL' ELEMENTS ARE NOT INCLUDED IN THIS DESIGN BY THE DEPARTMENTAL REPRESENTATIVE WHERE REQUIRED TO EXECUTE THE WORK SHOWN ON THESE DRAWINGS. REMOVE SECONDARY STRUCTURAL ELEMENTS AND REINSTALL IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- EXAMPLES OF 'NON-BUILDING ENVELOPE' OR 'SECONDARY STRUCTURAL' ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
A. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, CANOPIES, CEILINGS, MILLWORK, ETC.
B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
C. GLAZING, WINDOWS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS
D. SKYLIGHTS
E. MECHANICAL AND ELECTRICAL EQUIPMENT AND THEIR COMPONENTS
F. NON-LOAD BEARING MASONRY
G. NON-STRUCTURAL CONCRETE TOPPING
- SHOP DRAWINGS FOR 'NON-BUILDING ENVELOPE' OR 'SECONDARY STRUCTURAL' ELEMENTS WHICH MAY AFFECT THE PRIMARY BUILDING ENVELOPE SYSTEM SHALL BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY BUILDING ENVELOPE SYSTEM.

Revision/Évaluation	Description/Description	Date/Date
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1	ISSUED FOR 75% REVIEW	MAR 6/20



Sub-Consultant



Client/client
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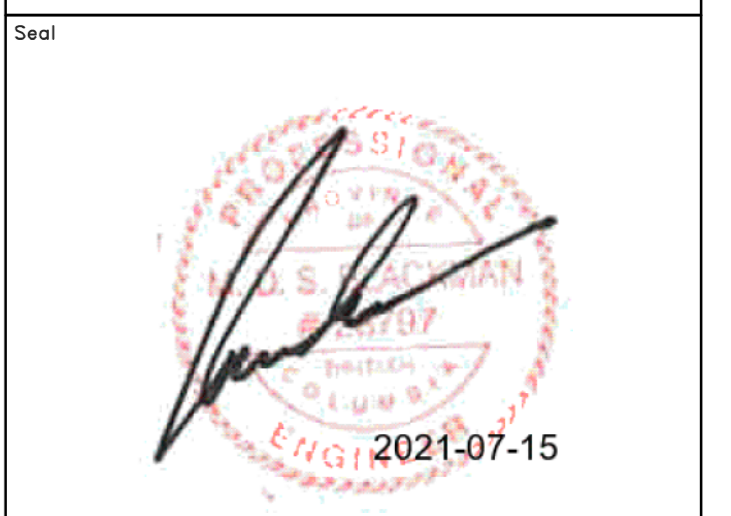
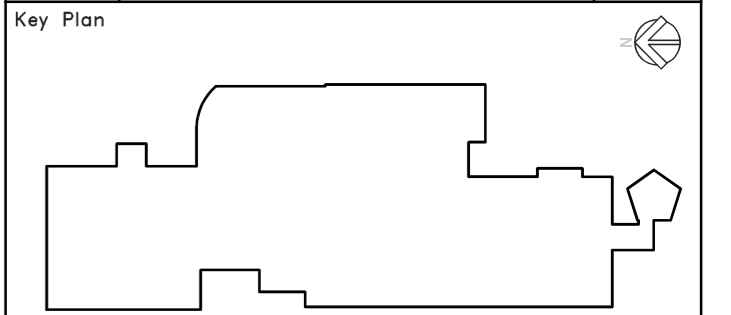
Project title/Titre du projet
3000 AIRPORT ROAD PENTICTON, BC PENTICTON REGIONAL AIRPORT PENTICTON ATB ROOF SEISMIC UPGRADE ROOFING & BUILDING ENVELOPE PROJECT

Consultant Signature Only
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Designed by/Concept par
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PWGSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL
Drawing title/Titre du dessin

GENERAL NOTES

Project No./No. du projet R.105676.001	Sheet/Feuille R-1.0 2 OF 14	Revision no./La Révision no. 4
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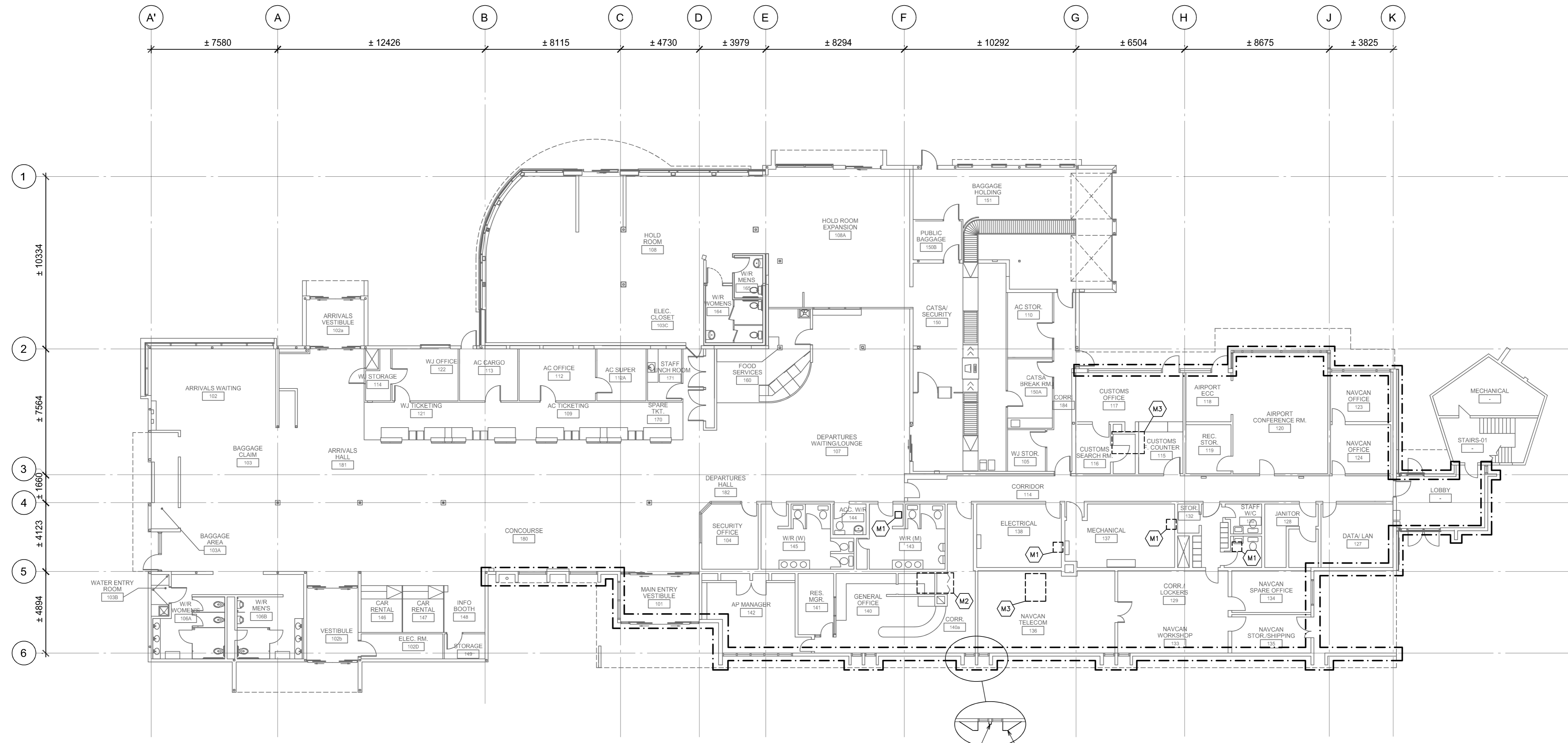
Sub-Consultant
ric RJC Project No. KEL.021700.0004
 Engineers

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 800 BARRARD ST
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Project title/Titre du projet
 3000 AIRPORT ROAD
 PENTICTON, BC
 PENTICTON REGIONAL AIRPORT
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 ROOF SEISMIC UPGRADE
 ROOFING & BUILDING
 ENVELOPE PROJECT

Consultant Signature Only
 Designed by/Concept par MDB
 Drawn by/Dessiné par BPT
 PWSC Project Manager/Administrateur de Projets TFSGC JULIAN HO
 Regional Manager, Architectural and Engineering Services
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 Drawing title/Titre du dessin

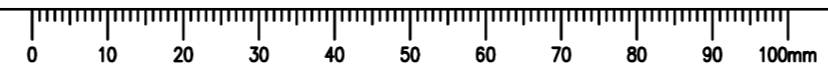
Project No./No. du projet: R.105676.001
 Sheet/Feuille: R-2.0 3 OF 14
 Revision no./Lo Révision no.: 4



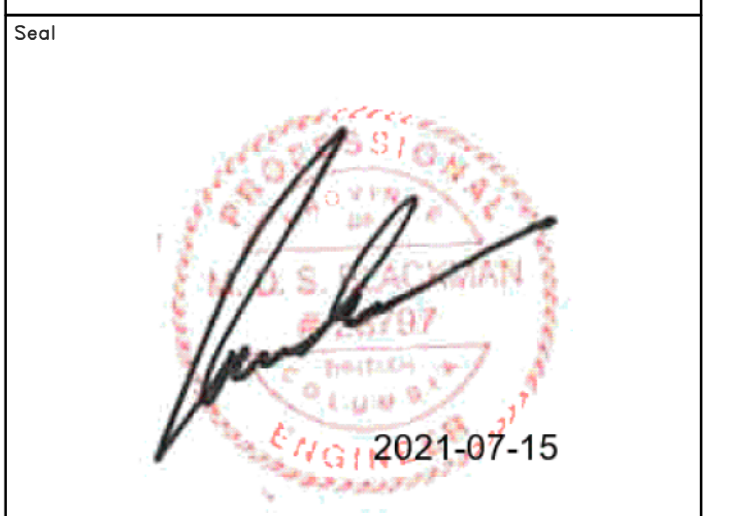
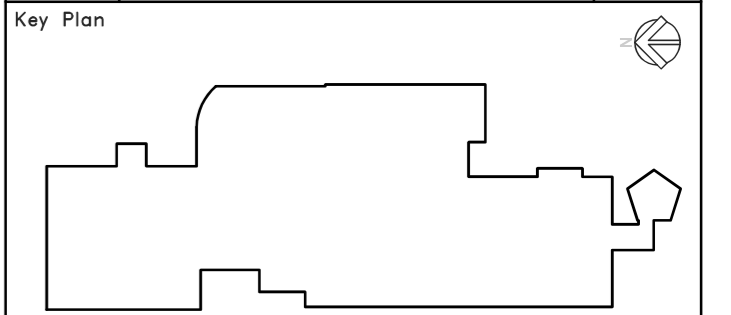
MAIN FLOOR PLAN
 SCALE: 1:150

NOTES:
 1. CONTRACTOR TO CONFIRM LOCATION OF CEILING REPAIRS WITH LOCATIONS ON MECHANICAL DRAWINGS AND ON-SITE.

LEGEND	
	EXTENT OF NEW CLADDING
	NEW SUPPLY AND/OR EXHAUST FAN TO BE INSTALLED ABOVE. REFER TO MECHANICAL REMOVE, PATCH, AND REPAIR EXISTING GYPSUM BOARD
	NEW AIR HANDLING UNIT TO BE INSTALLED ABOVE. REFER TO MECHANICAL. REMOVE, STORE AND REPLACE EXISTING SUSPENDED CEILING TILES WITH CARE FOR ACCESS AS NECESSARY. REPLACE ANY TILES DAMAGED DURING INSTALLATION.
	NEW AIR HANDLING UNIT TO BE INSTALLED ABOVE. REFER TO MECHANICAL. REMOVE, STORE AND REPLACE EXISTING SUSPENDED CEILING TILES WITH CARE FOR ACCESS AS NECESSARY. REPLACE ANY TILES DAMAGED DURING INSTALLATION. REMOVE EXISTING TILES GLUED TO STRUCTURE AS NECESSARY.



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3	ISSUED FOR 90% REVIEW	APR. 9/20
2	ISSUED FOR 75% REVIEW	MAR. 6/20
1	ISSUED FOR INFORMATION	JAN. 13/20



Sub-Consultant

Prime Consultant
ric RJC Project No. KEL.021700.0004
Engineers

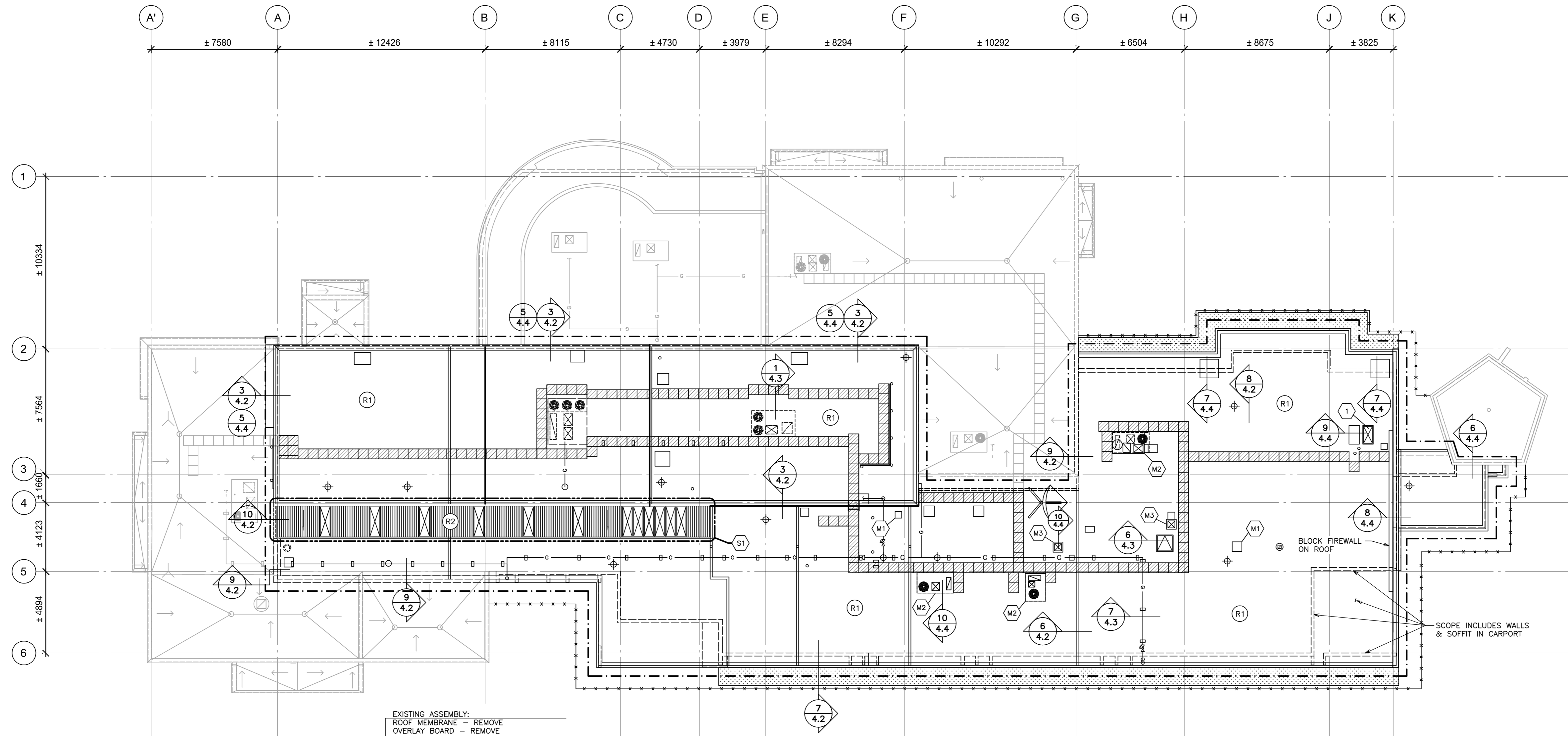
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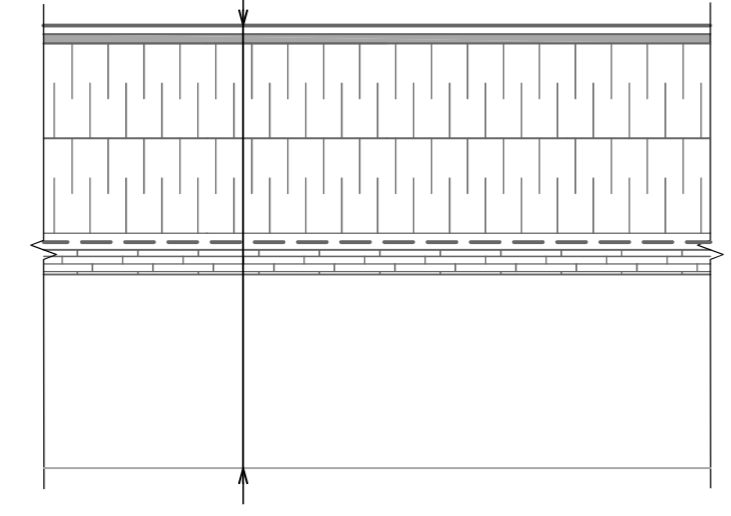
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PWSC Project Manager/Administrateur de Projets TPSC JULIAN HO
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Drawing title/Titre du dessin

ROOF PLAN

Project No./No. du projet R.105676.001
Sheet/Feuille R-2.1
Revision no./Lo Révision no. 5
4 OF 14



EXISTING ASSEMBLY:
ROOF MEMBRANE - REMOVE
OVERLAY BOARD - REMOVE
RIGID INSULATION - REMOVE
VAPOUR BARRIER - REMOVE
PLYWOOD SHEATHING (REFER TO NOTE 1)
FRAMING (REFER TO CIVIL STRUCT. DWGS)
REMOVE FRAMING TAPERS



NOTE:
1. CONTRACTOR TO REMOVE ALL EXISTING ROOF SHEATHING AND SLOPED TAPERED JOISTS FOR STRUCTURAL DIAPHRAGM UPGRADE. SEE STRUCTURAL FOR REMOVAL, NEW SHEATHING, NAILING AND BLOCKING REQUIREMENTS.

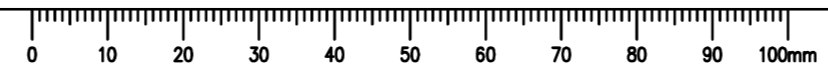
1
2.1
EXISTING ROOF DEMOLITION
N.T.S.

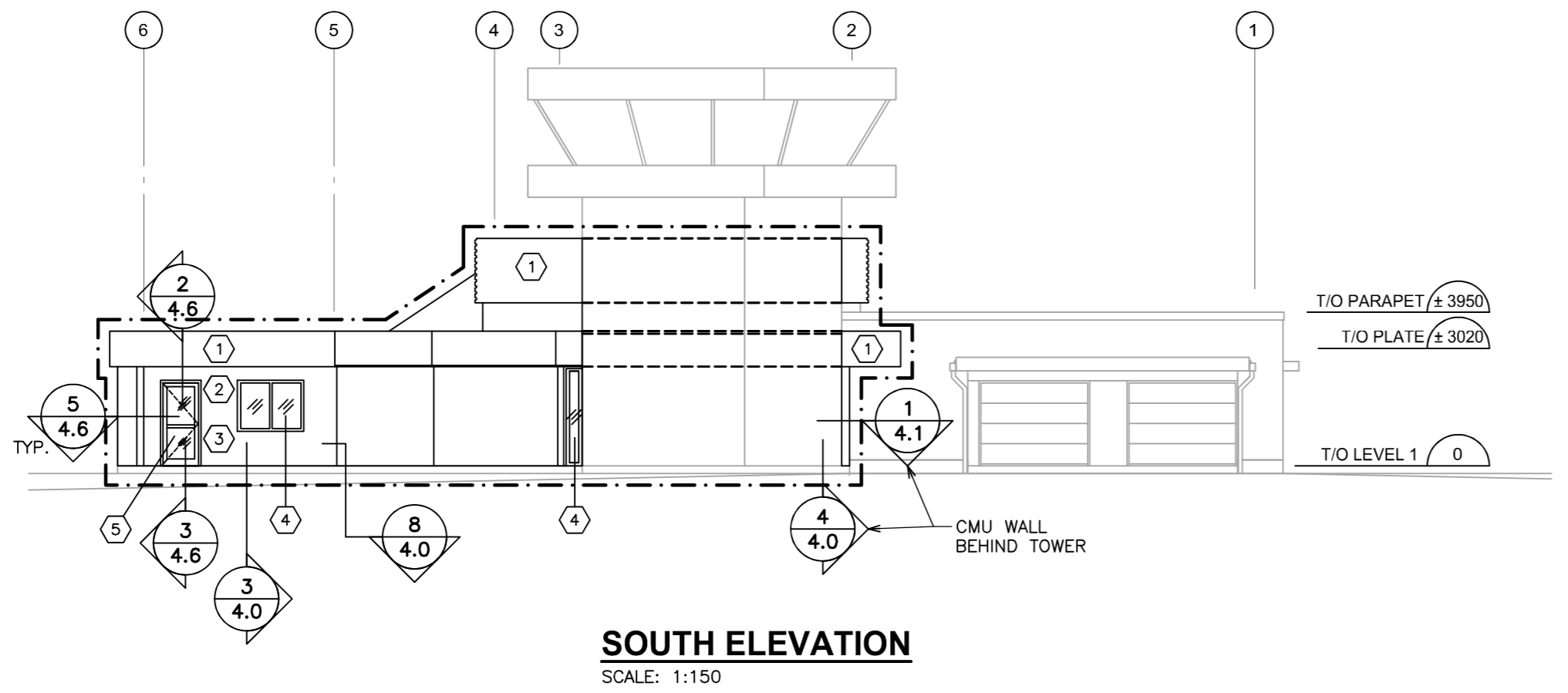
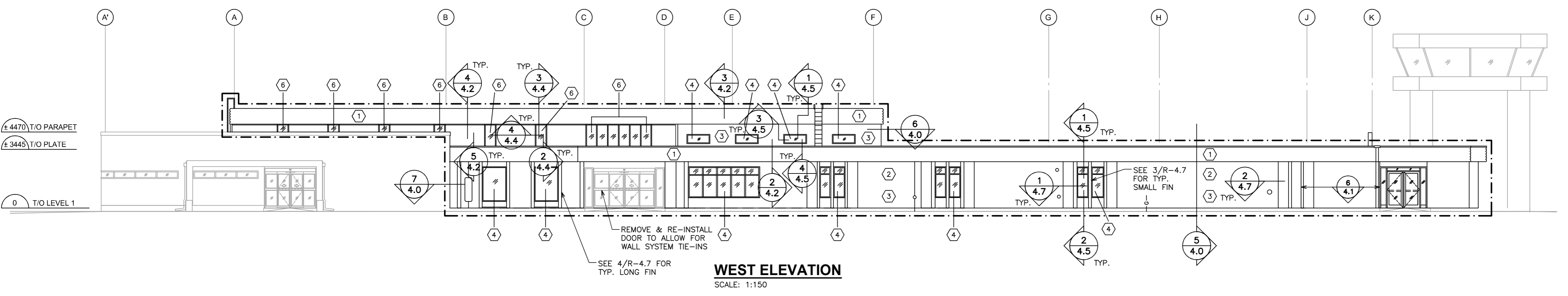
ROOF PLAN
SCALE: 1:150



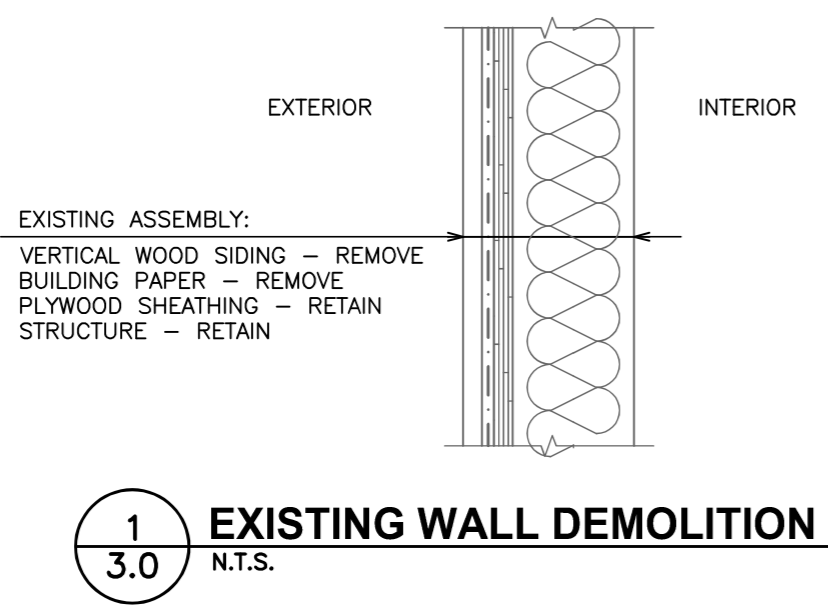
- NOTE:
- CONTRACTOR TO TEMPORARILY REMOVE ALL CONCRETE ROOF PAVERS FOR ROOFING WORK. PAVERS ARE TO BE REUSED AND PUT BACK INTO ORIGINAL LOCATIONS AFTER WORK IS COMPLETE.
 - CONTRACTOR TO CONFIRM THE LOCATIONS OF ALL ROOF PENETRATIONS ON SITE.
 - OVERHEAD PROTECTION TO BE PROVIDED AT EVERY ACTIVE ENTRANCE IN THE WORK AREA.
 - SEE DWG S4.01 FOR ROOF DIAPHRAGM SCOPE.
 - CONTRACTOR TO COORDINATE ANY ANTENNAE IMPACTS/RELOCATIONS WITH THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WEEKS IN ADVANCE. THE ANTENNAE MUST BE KEPT IN SERVICE AT ALL TIMES.
 - ALL NEW ROOF CURBS TO BE SEISMIC ISOLATION CURBS AS REQUIRED BY MECHANICAL. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS. SEE DETAIL 10/R-4.4.

LEGEND	
(R1)	TYP. INSULATED ROOF ASSEMBLY SEE DETAIL 1/R-4.2
(R2)	SLOPED ROOF METAL CLADDING SEE DETAIL 4/R-4.2
(S1)	SKYLIGHT REPLACEMENT
[Dashed Box]	EXTENT OF WORK
⊕	ROOF DRAIN
○	ROOF VENT STACK
→	WORK AREA PERIMETER FENCING
[Hatched Box]	CRANE SETUP LOCATIONS. CRANE CAN BE SETUP ON THE LAND SIDE AND/OR AIR SIDE.
(M1)	NEW EXHAUST FAN TO REPLACE EXISTING. REFER TO MECHANICAL. EXISTING CURB TO REMAIN. SEE DETAIL 1/R-4.3
(M2)	NEW RTU TO REPLACE EXISTING. REFER TO MECHANICAL. REPLACE EXISTING ROOF CURB WITH NEW. SEE DETAIL 10/R-4.4.
(M3)	NEW SUPPLY AIR FAN TO REPLACE EXISTING. REFER TO MECHANICAL. REPLACE EXISTING ROOF CURB WITH NEW. SEE DETAIL 10/R-4.4.

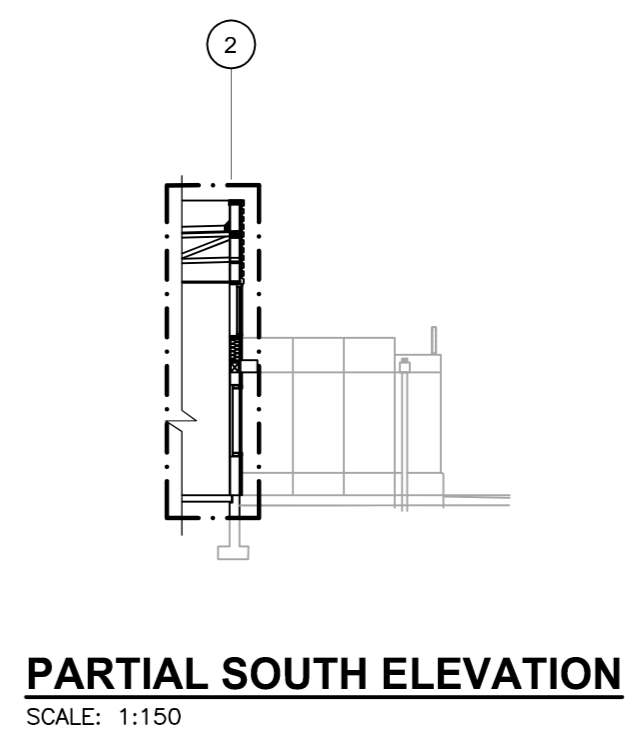
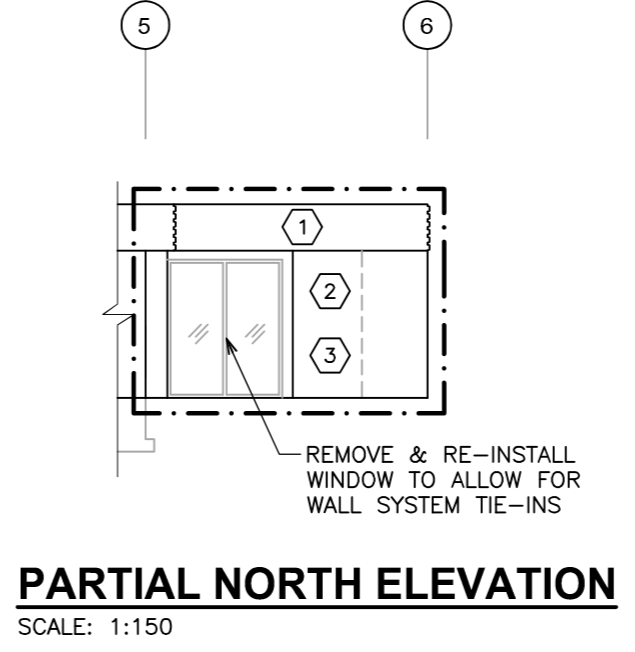
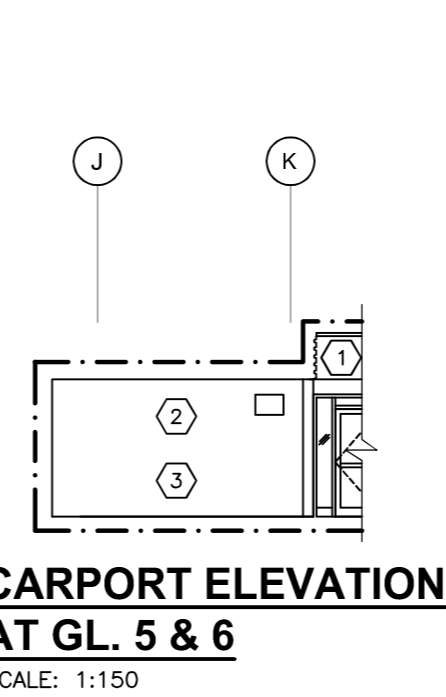




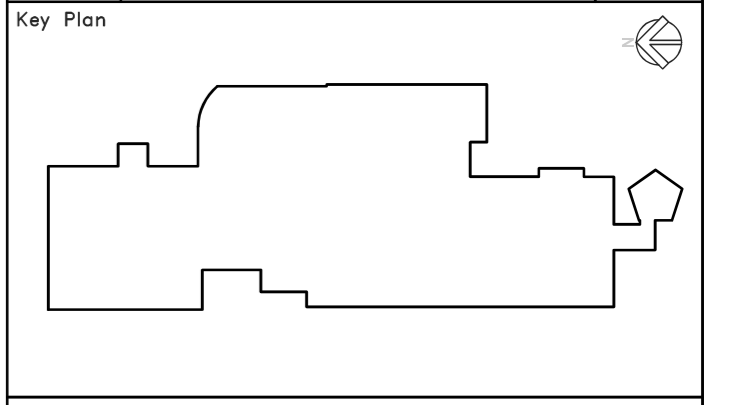
NOTE:
1. CONTRACTOR TO TEMPORARILY REMOVE ROOF LADDER DURING WORK. LADDER IS TO BE REINSTALLED INTO NEW ROOF ASSEMBLY.



LEGEND	
①	HORIZONTAL 3" STEEL CORRUGATED CLADDING
②	6" WIDE CEMENTITIOUS CLADDING SEE TYP. DETAIL 1/R-4.0
③	12" WIDE CEMENTITIOUS CLADDING SEE TYP. DETAIL 1/R-4.0
NOTE: CONTRACTOR TO CONFIRM FINAL WALL CLADDING LAYOUT WITH ARCHITECTURAL DRAWINGS. SEE DRAWING A1.	
④	WINDOW REPLACEMENT REFER TO SCHEDULE ON R-5.0
⑤	DOOR REPLACEMENT REFER TO SCHEDULE ON R-5.0 REFER TO SPECIFICATION 08 11 00 FOR SECURITY HARDWARE FROM EXISTING DOORS.
⑥	SKYLIGHT REPLACEMENT
⊠	EXTENT OF WORK



Revision/Revision	Description/Description	Date/Date
5	ISSUED FOR TENDER	JULY 14/21
4	ISSUED FOR PRE-TENDER REVIEW	MAR. 11/21
3	ISSUED FOR 90% REVIEW	APR. 9/20
2	ISSUED FOR 75% REVIEW	MAR. 6/20
1	ISSUED FOR INFORMATION	JAN. 13/20



Sub-Consultant

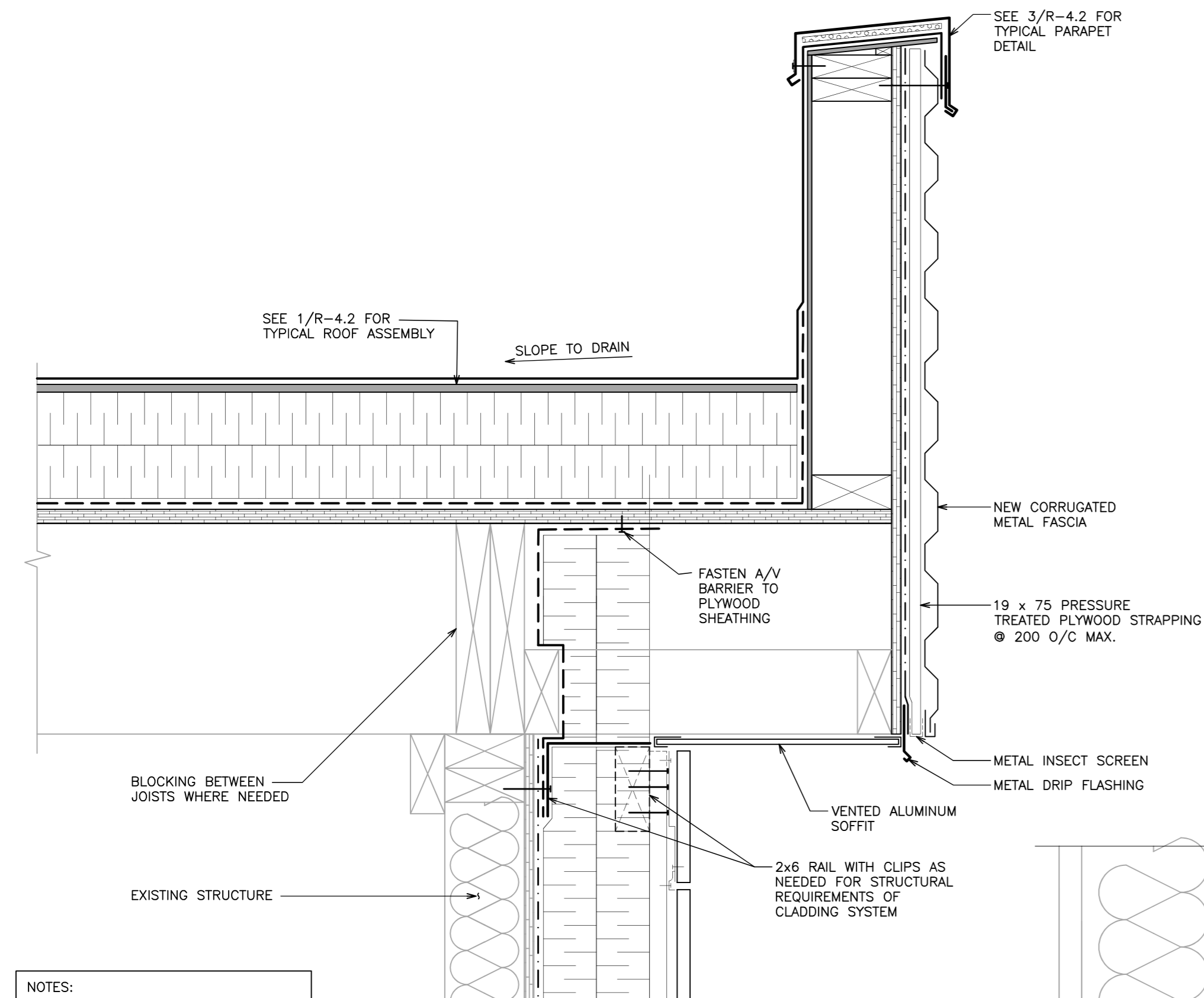
Prime Consultant
rjc RJC Project No. KEL.021700.0004
Engineers

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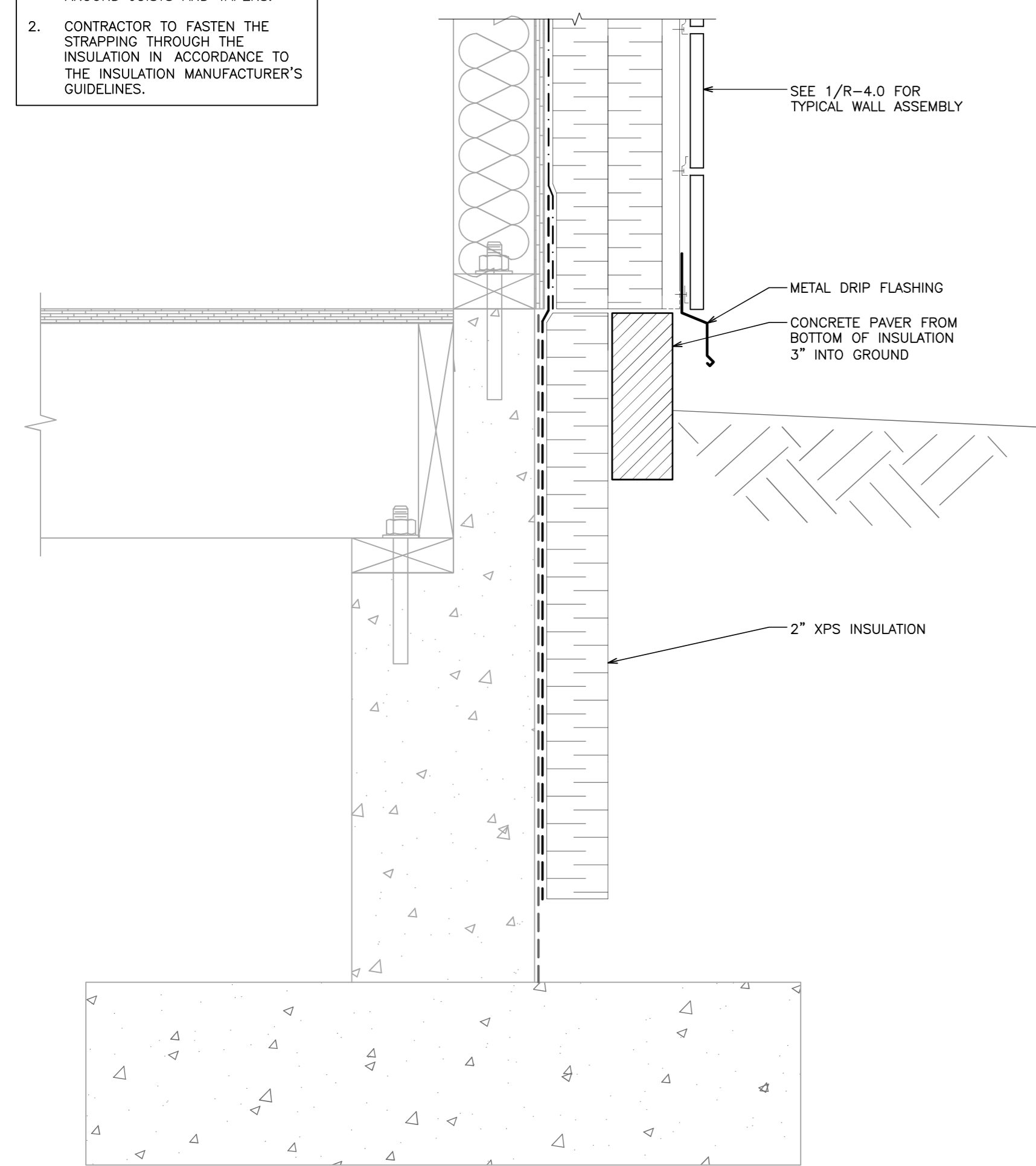
Project title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

Consultant Signature Only
Designed by/Concept par MDB
Drawn by/Dessiné par BPT
PWGSC Project Manager/Administrateur de Projets TPSCG
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCG
PREETIPAL PAUL
Drawing title/Titre du dessin

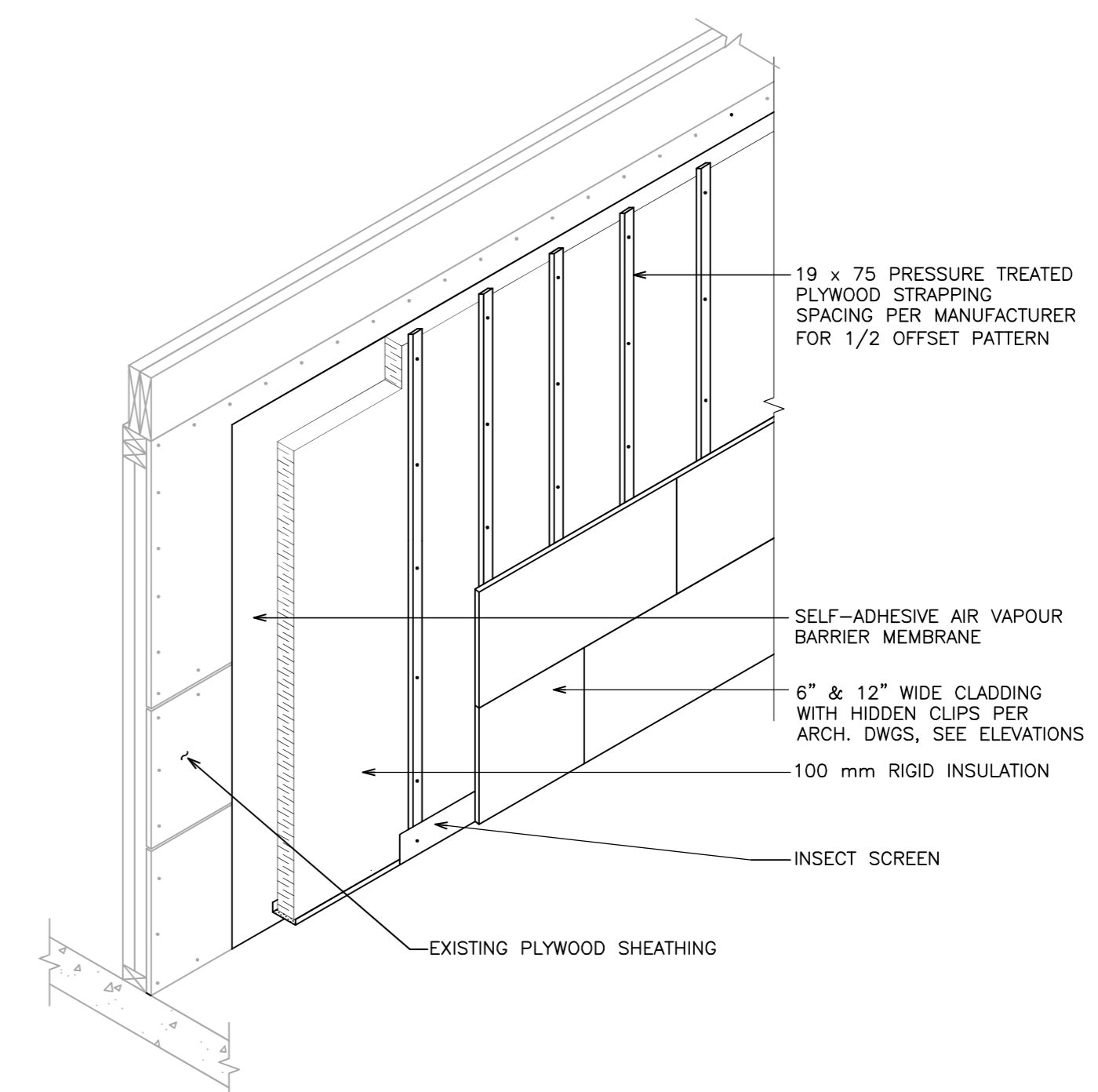
BUILDING ELEVATIONS



NOTES:
1. CONTRACTOR TO ENSURE CONTINUOUS AIR VAPOUR BARRIER AROUND JOISTS AND TAPERS.
2. CONTRACTOR TO FASTEN THE STRAPPING THROUGH THE INSULATION IN ACCORDANCE TO THE INSULATION MANUFACTURER'S GUIDELINES.

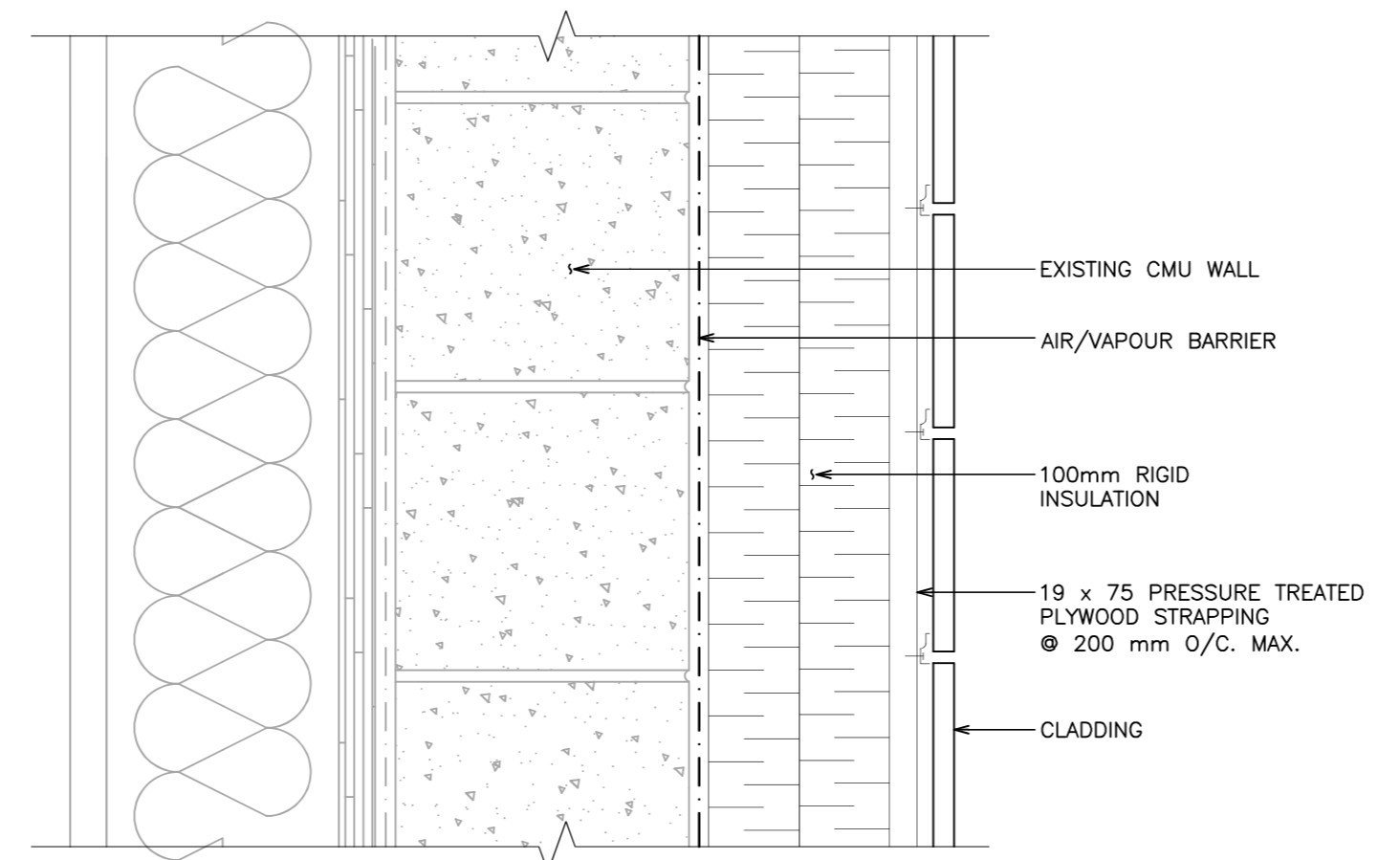


2
4.0
1:4
TYPICAL WALL ASSEMBLY - NAILING PLAN

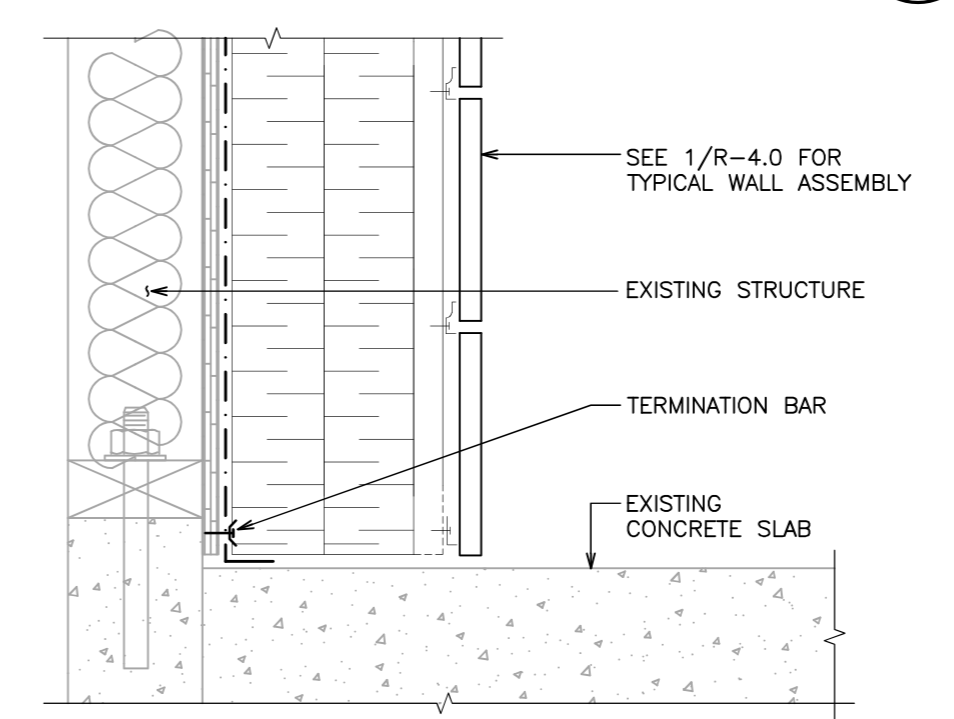


NOTES:
1. CONTRACTOR TO CONFIRM EXISTENCE OF POLY VAPOUR BARRIER ON THE INTERIOR OF THE WALL.
2. IF POLY VAPOUR BARRIER FOUND, CONTRACTOR TO USE VAPOUR PERMEABLE AIR BARRIER MEMBRANE.

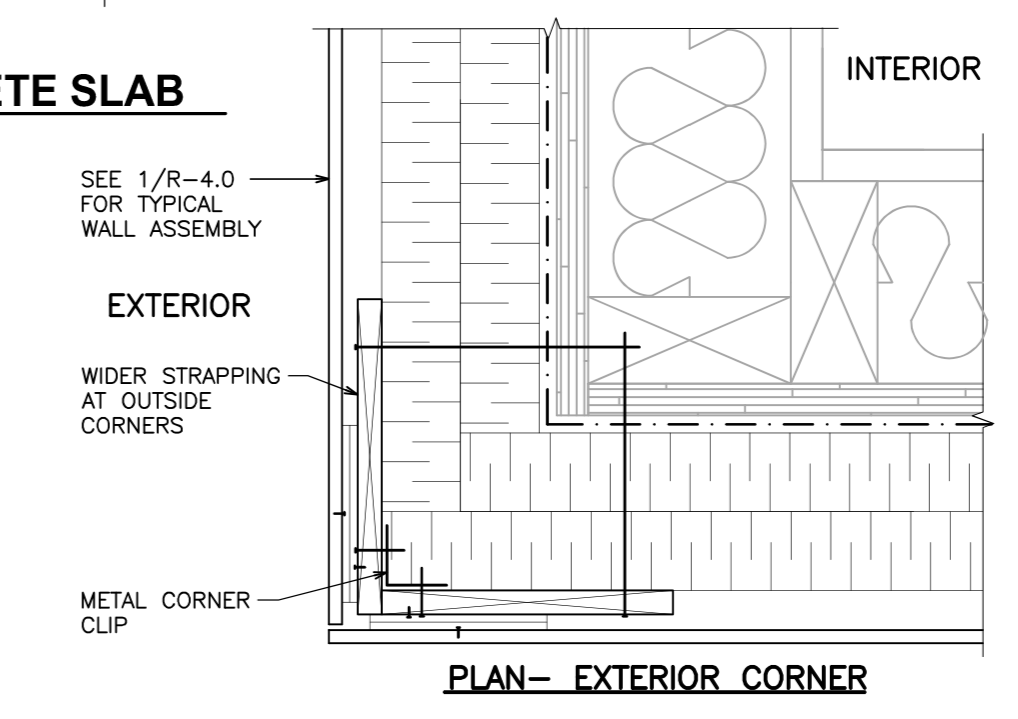
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4.0
N.T.S.
TYPICAL WALL ASSEMBLY



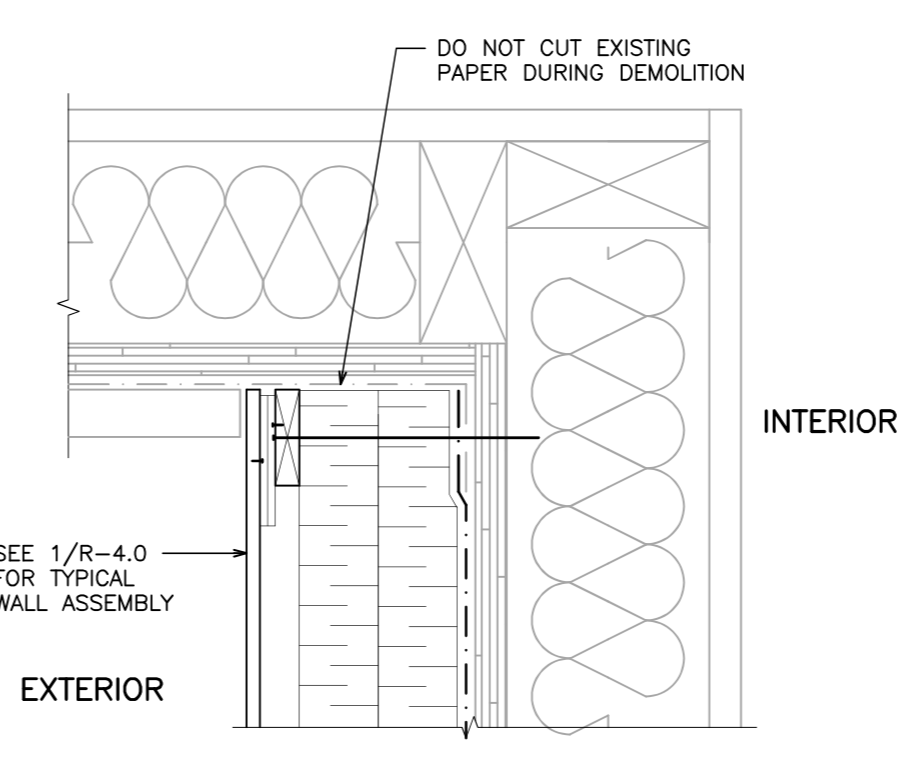
4
4.0
1:5
CMU WALL ASSEMBLY



3
4.0
1:5
BASE OF WALL TO CONCRETE SLAB



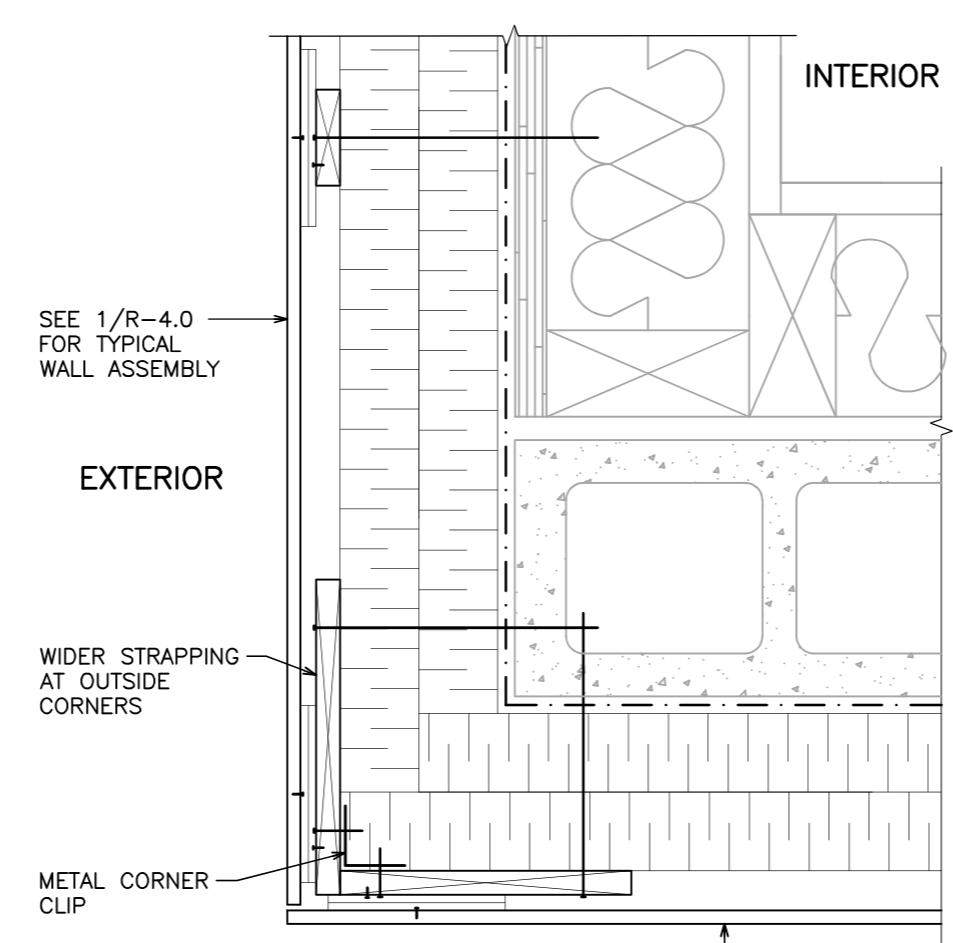
PLAN- EXTERIOR CORNER



PLAN- INTERNAL CORNER

NOTES:
1. OVERLAP NEW AIR VAPOUR BARRIER OVER EXISTING BUILDING PAPER.
2. INSTALL NEW WALL ASSEMBLY TO BUTT AGAINST THE EXISTING CLADDING.

7
4.0
N.T.S.
NEW CLADDING TO EXISTING CLADDING CONNECTION

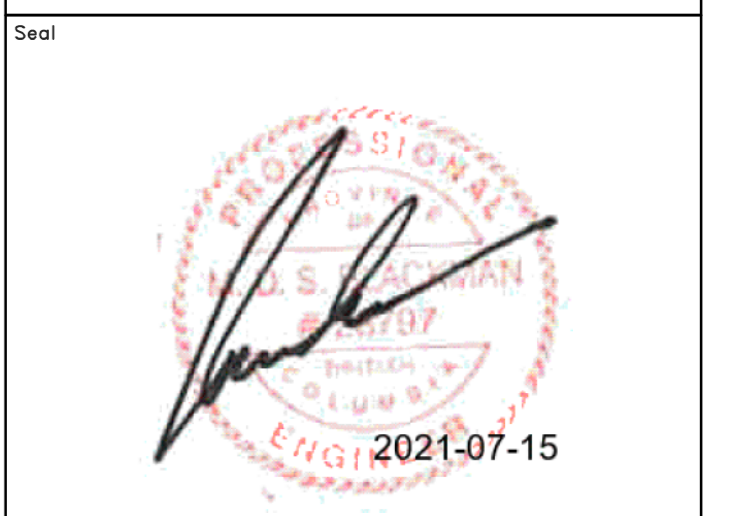
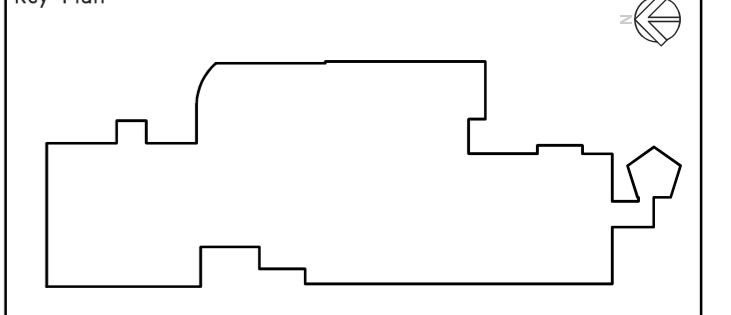


PLAN- EXTERIOR CORNER

8
4.0
N.T.S.
NEW CLADDING TO CMU WALL CONNECTION

5
4.0
1:5
TYPICAL WALL SECTION

Revision/Revision	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
3	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21
2	ISSUED FOR 90% REVIEW	APR 9/20
1	ISSUED FOR 75% REVIEW	MAR 6/20



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Prime Consultant
rjc Engineers
RJC Project No. KEL.021700.0004

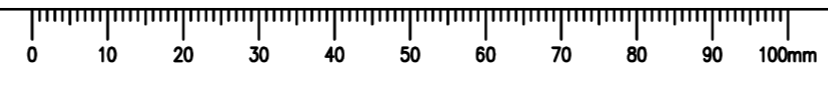
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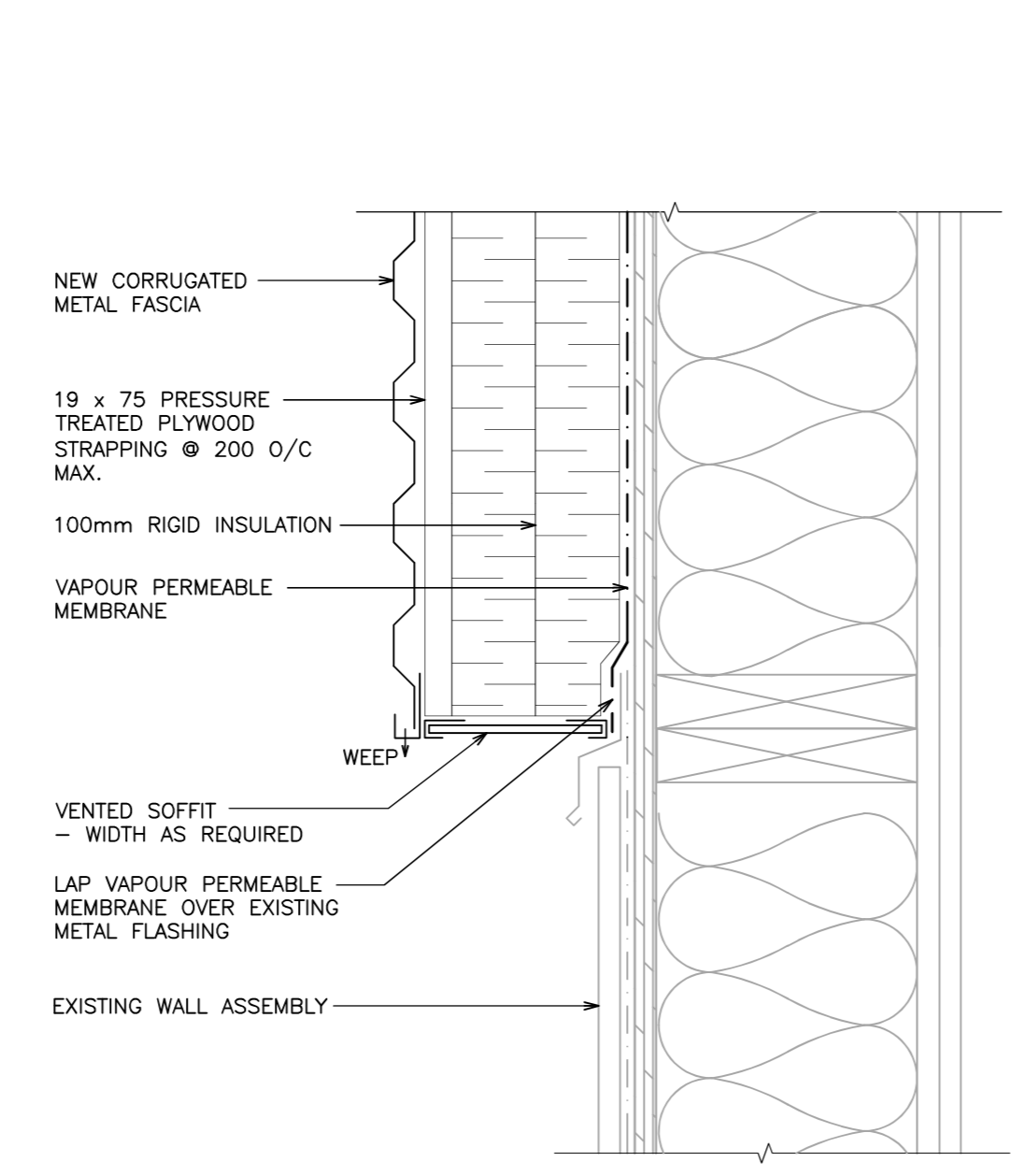
Project Title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
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PWSC Project Manager/Administrateur de Projets TPSC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSC
PREETIPAL PAUL
Drawing Title/Titre du dessin

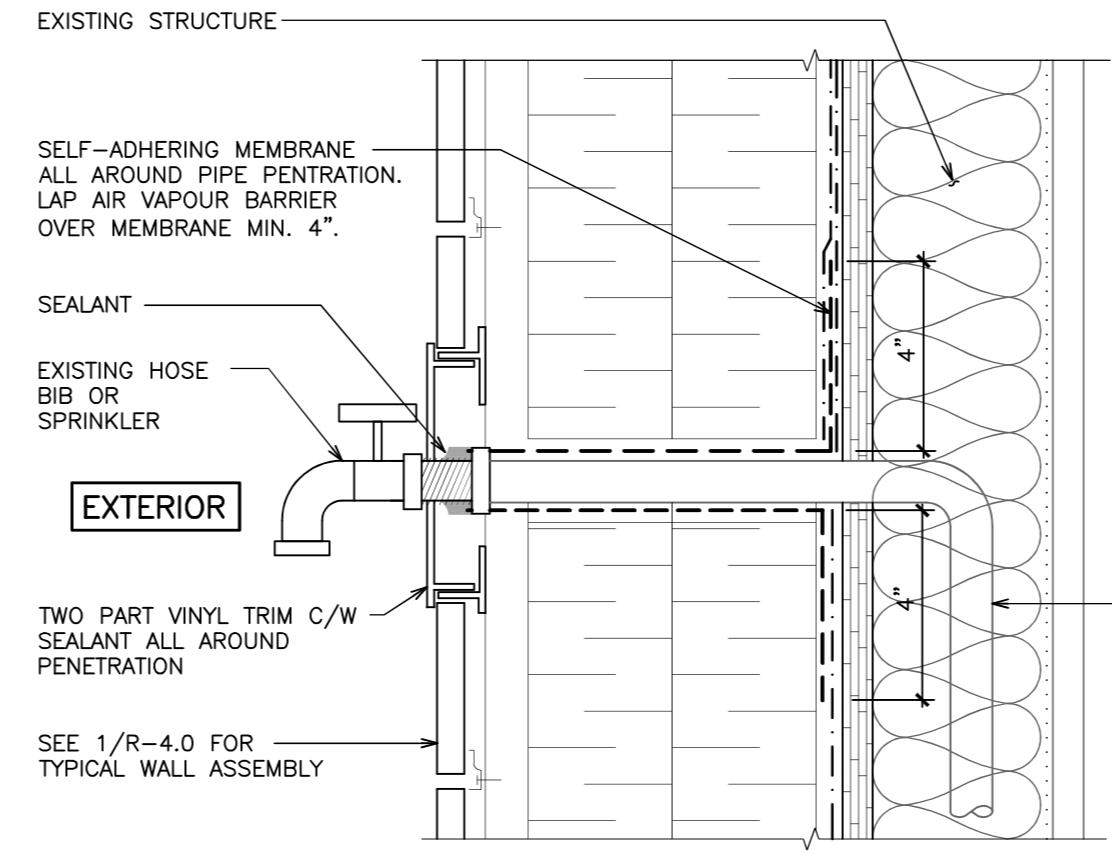
WALL DETAILS

Project No./No. du projet: R.105676.001
Sheet/Feuille: R-4.0
Revision no./Lo Révision no.: 4
6 OF 14



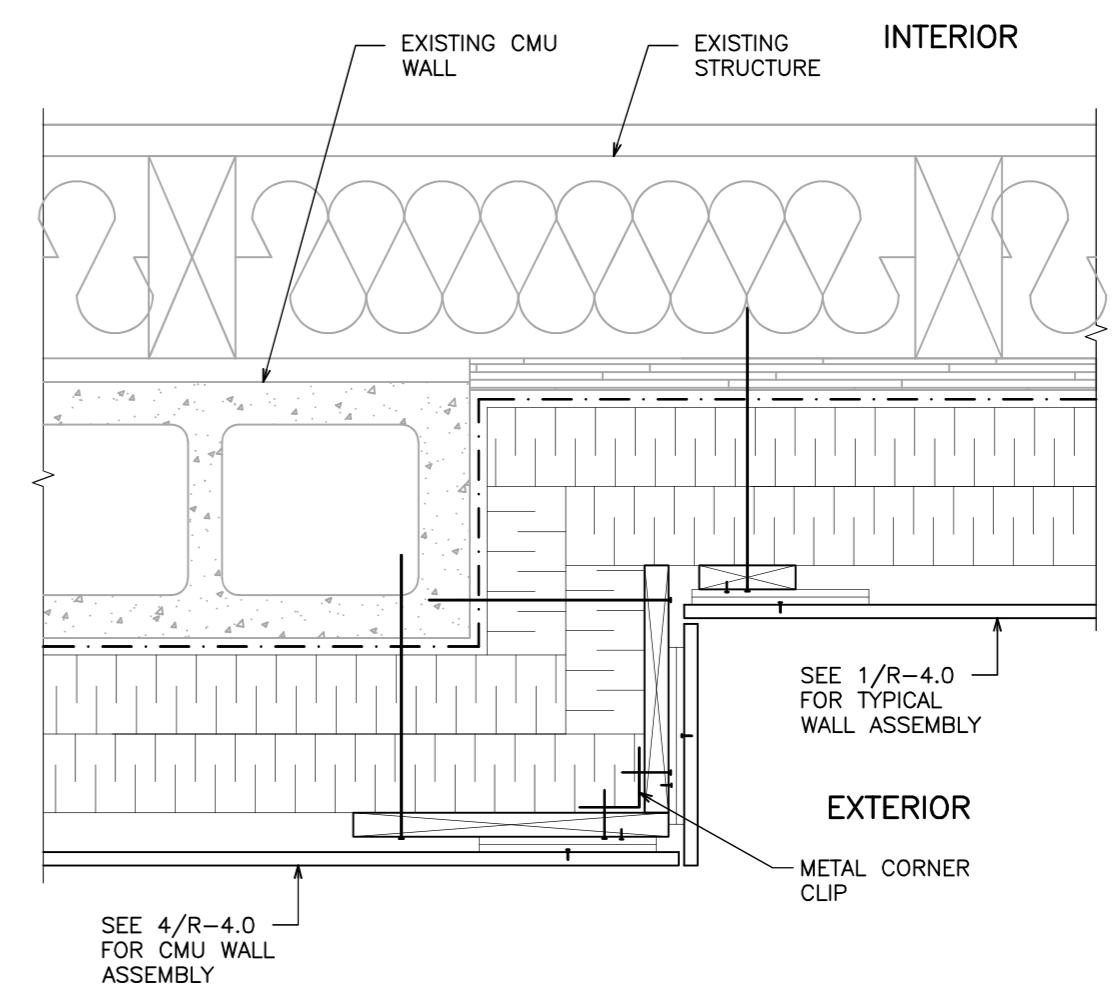


3 EAST WALL TO 2018 WALL
4.1 1:5



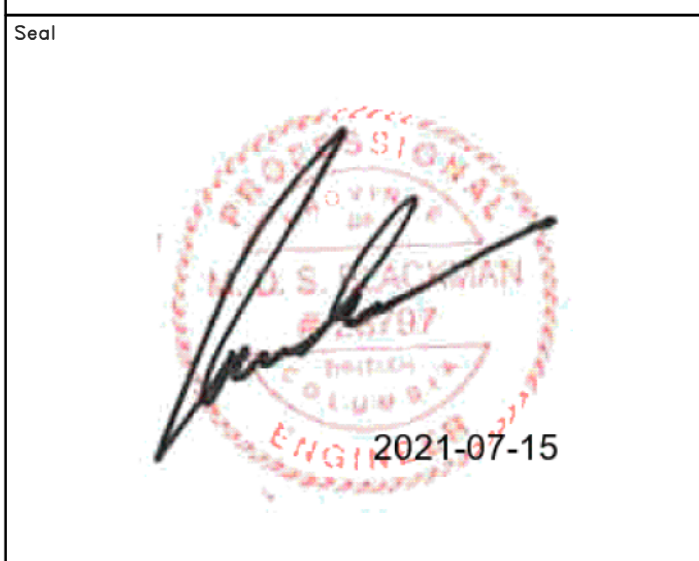
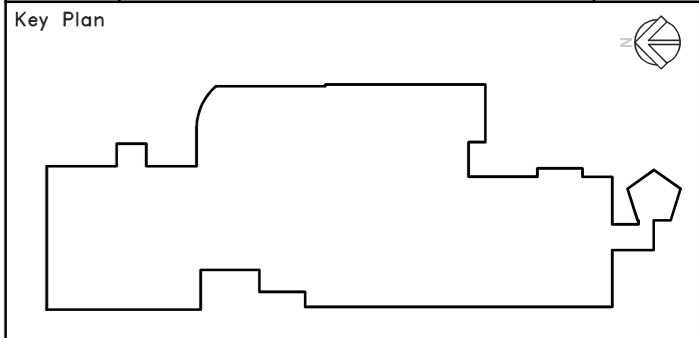
- NOTE:**
1. REPLACE AND TEST AS REQUIRED.
 2. CONTRACTOR TO VERIFY QUANTITY AND LOCATION OF EXISTING HOSE BIBS AND SPRINKLERS.
 3. EXTEND PIPE TO ENSURE BASE OF SPRINKLER HEAD IS FLUSH WITH THE CLADDING.

2 TYPICAL HOSE BIB & SPRINKLER PENETRATION
4.1 N.T.S.



1 CMU TO CLADDING ON EAST SIDE
4.1 N.T.S.

Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	JULY 14/21
2	ISSUED FOR PRE-TENDER REVIEW	MAR. 11/21
1	ISSUED FOR 90% REVIEW	APR. 9/20



Sub-Consultant

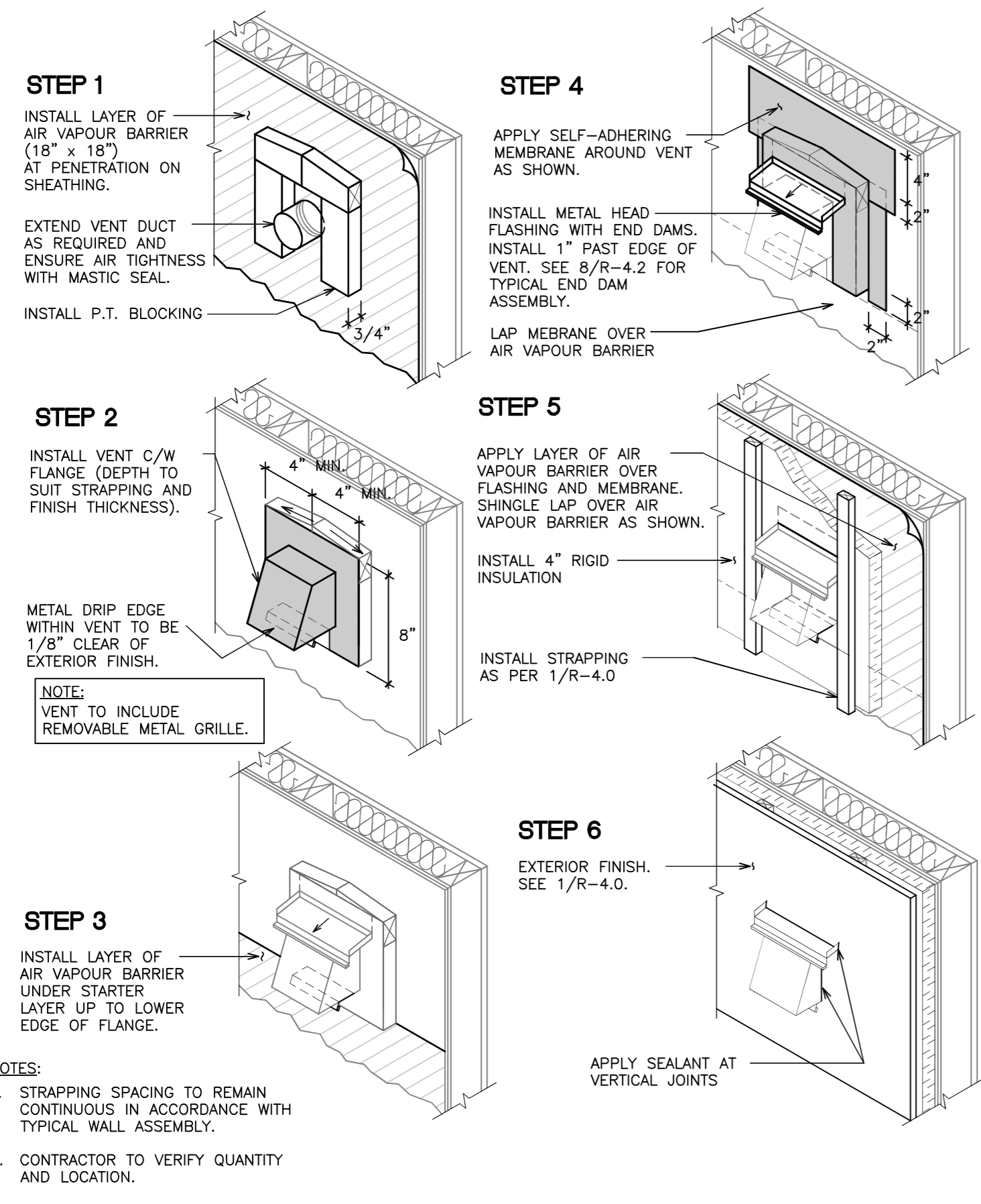
Prime Consultant
ric RJC Project No. KEL.021700.0004
Engineers

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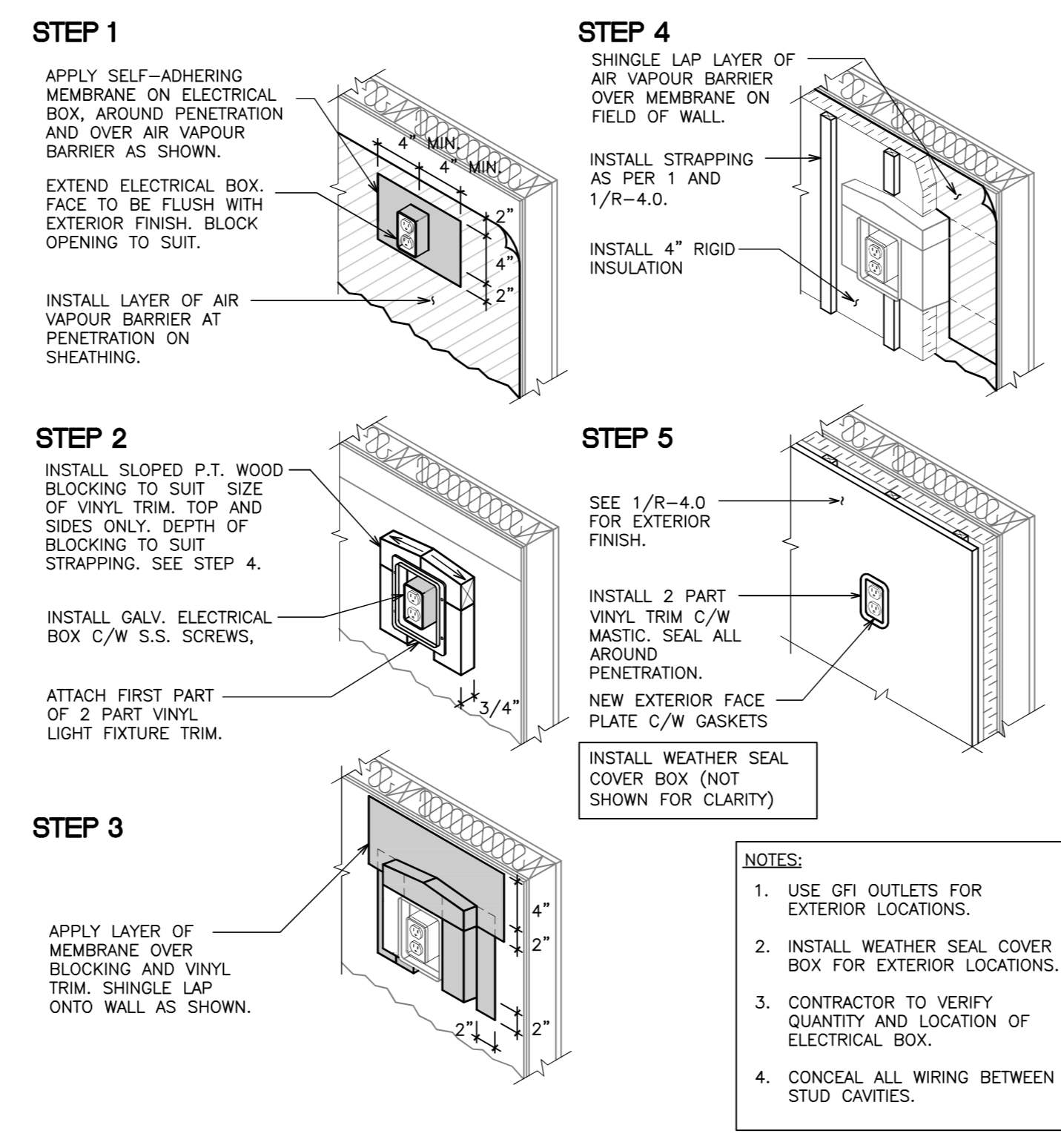
Project title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
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PWGSC Project Manager/Administrateur de Projets TPSCG
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCG
PREETIPAL PAUL
Drawing title/Titre du dessin

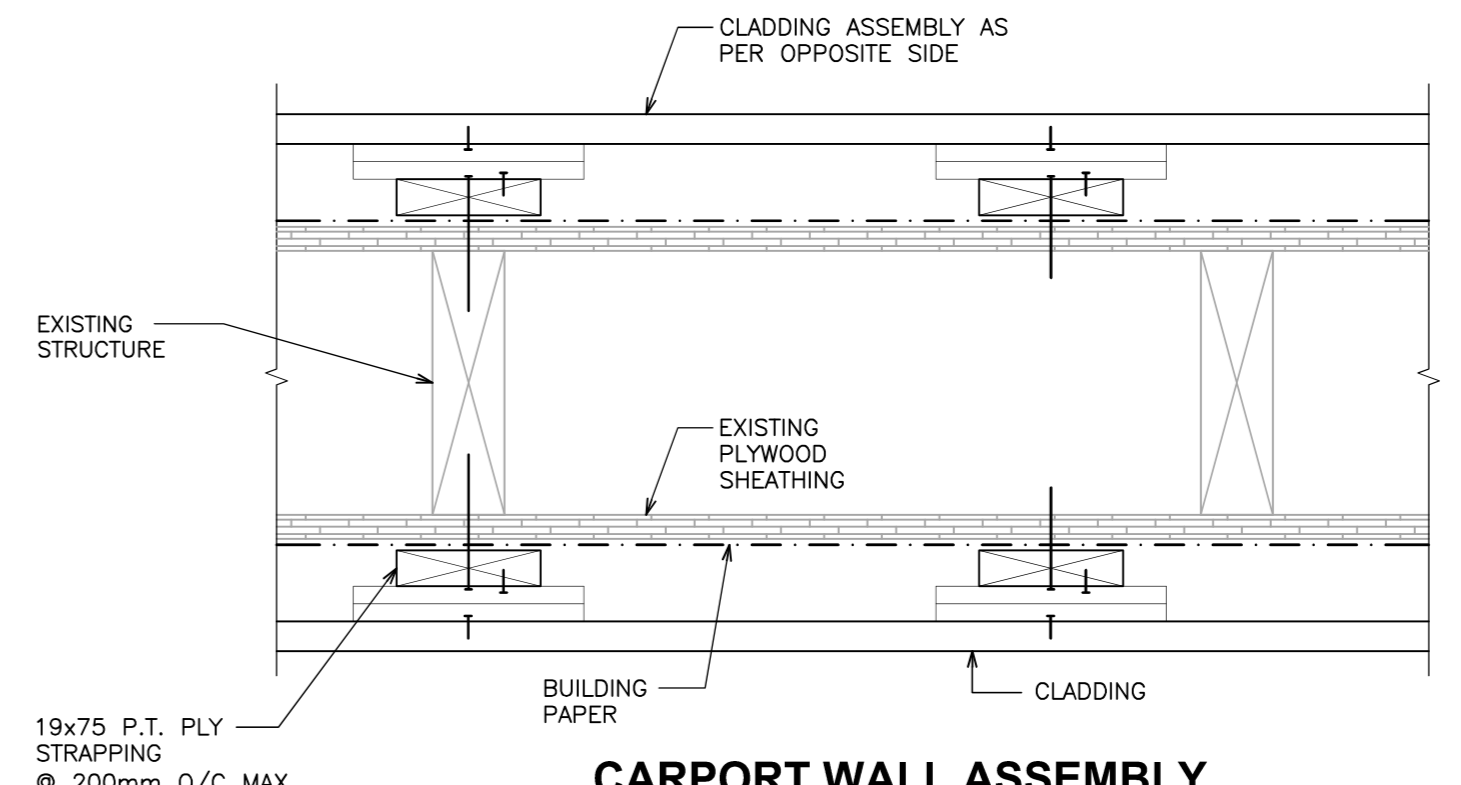
WALL DETAILS
Project No./No. du projet: R.105676.001
Sheet/Feuille: R-4.1
Revision no./Lo Révision no.: 3



8 TYPICAL EXHAUST VENT PENETRATION WATERPROOFING ASSEMBLY
4.1 N.T.S.

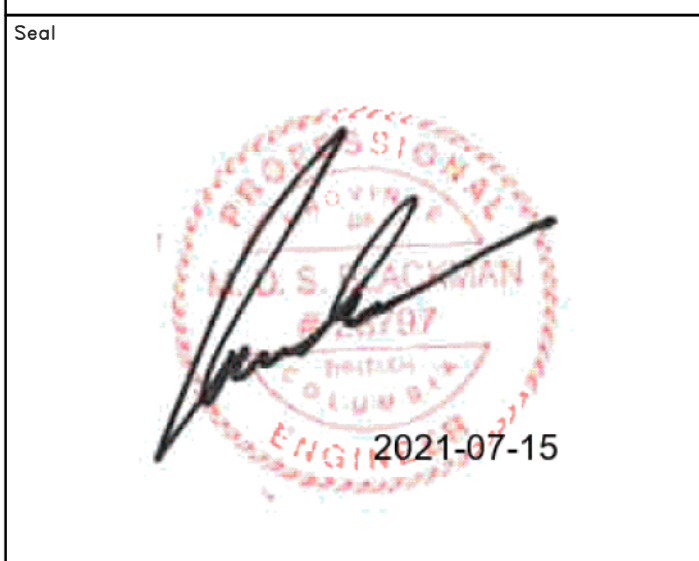
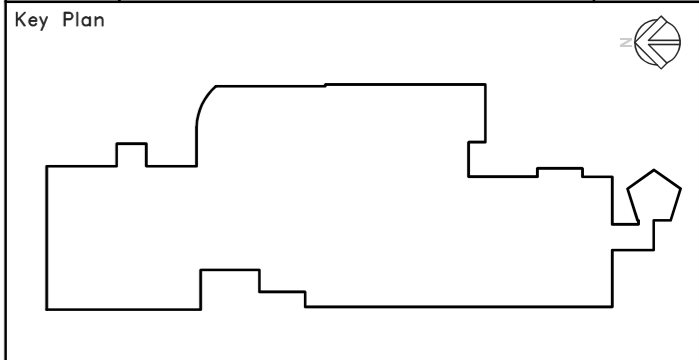


7 TYPICAL ELECTRICAL BOX PENETRATION WATERPROOFING ASSEMBLY
4.1 N.T.S.



6 CARPORT WALL ASSEMBLY PLAN VIEW
4.1 1:4

Revision/Édition	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
3	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21
2	ISSUED FOR 90% REVIEW	APR 9/20
1	ISSUED FOR 75% REVIEW	MAR 6/20



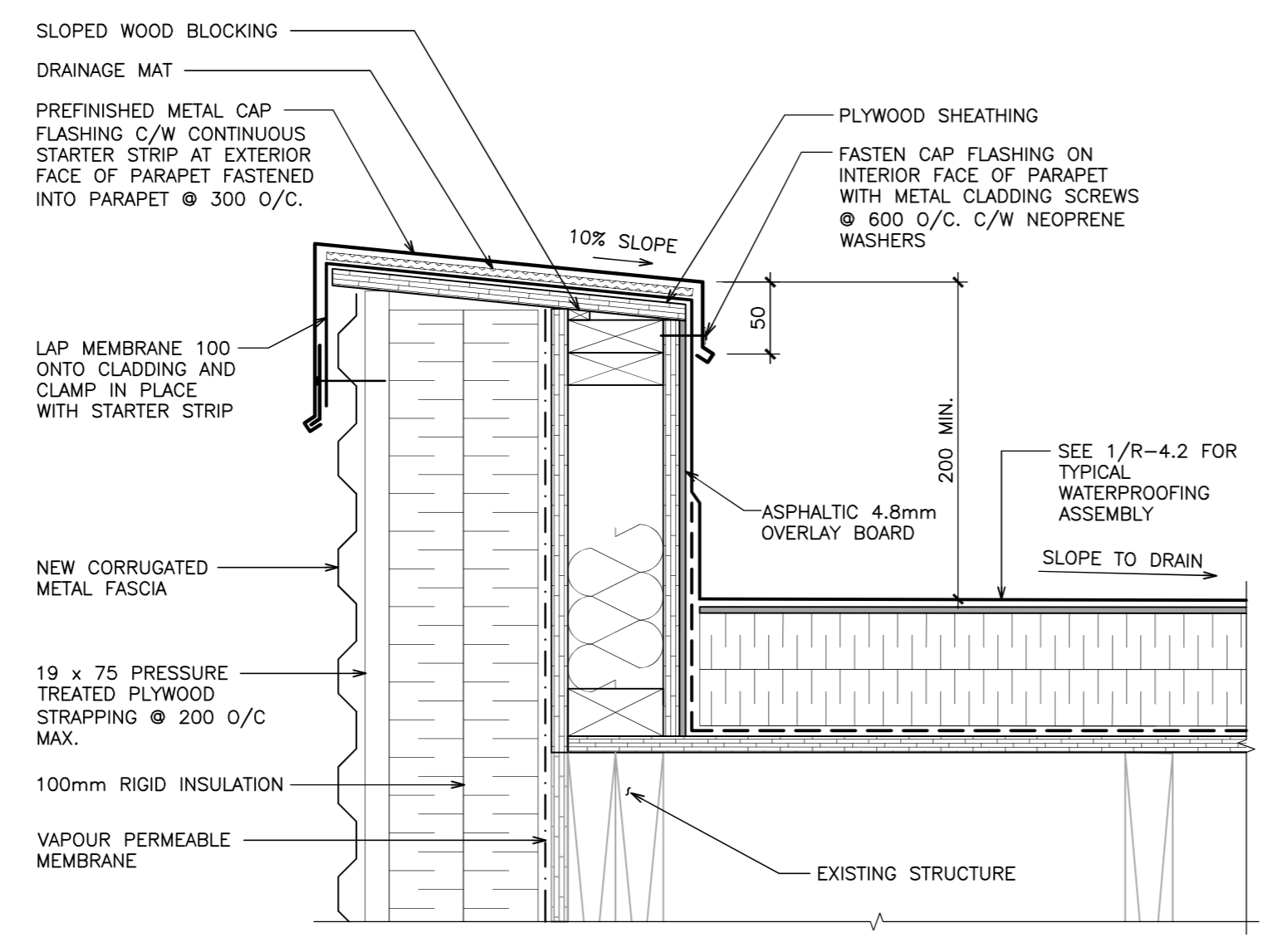
Sub-Consultant
ric Engineers
RJC Project No. KEL.021700.0004

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Project title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
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ENVELOPE PROJECT

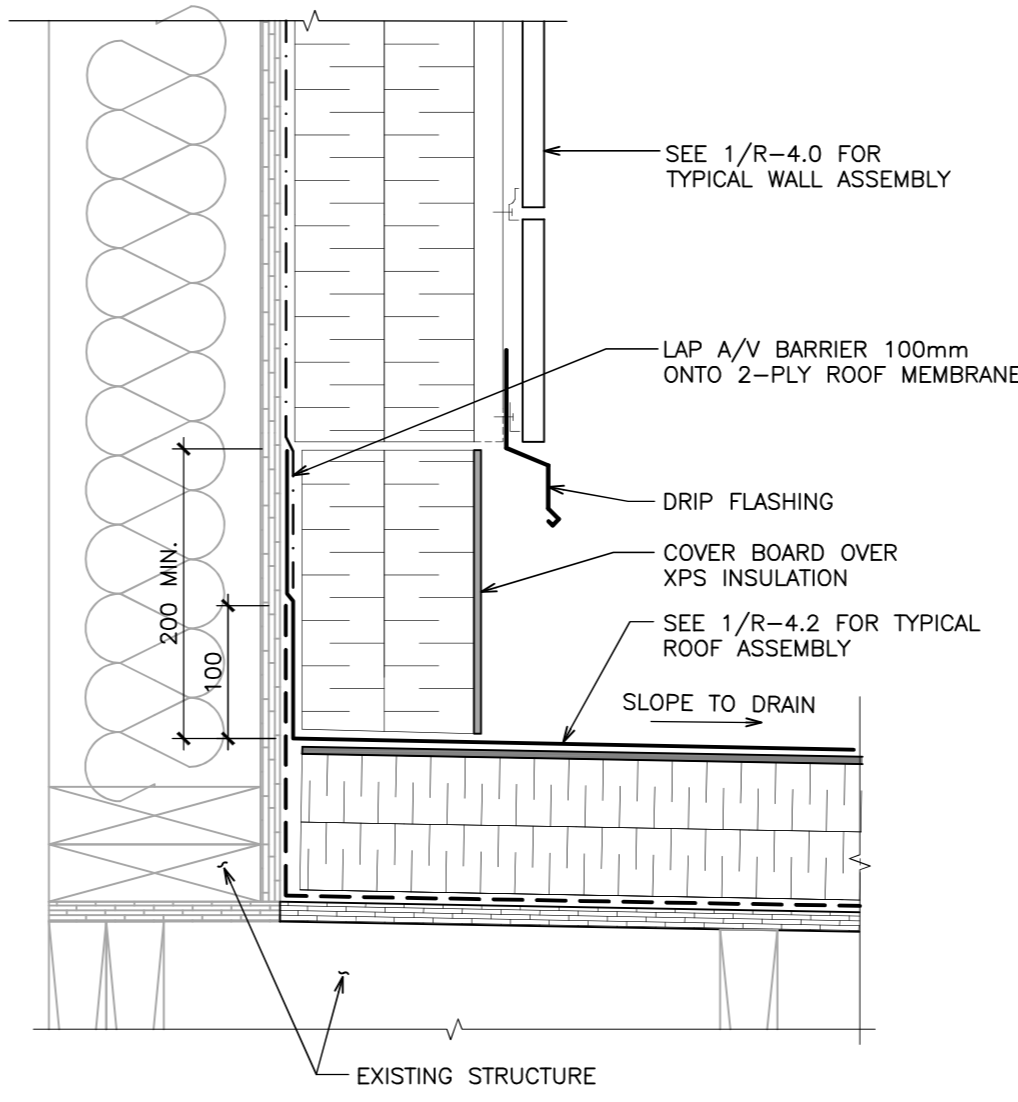
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Designed by/Concept par
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PWSC Project Manager/Administrateur de Projets TPSC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSC
PREETIPAL PAUL
Drawing title/Titre du dessin

ROOF DETAILS
Project No./No. du projet: R.105676.001
Sheet/Feuille: R-4.2
Revision no./Lo Révision no.: 4
8 OF 14

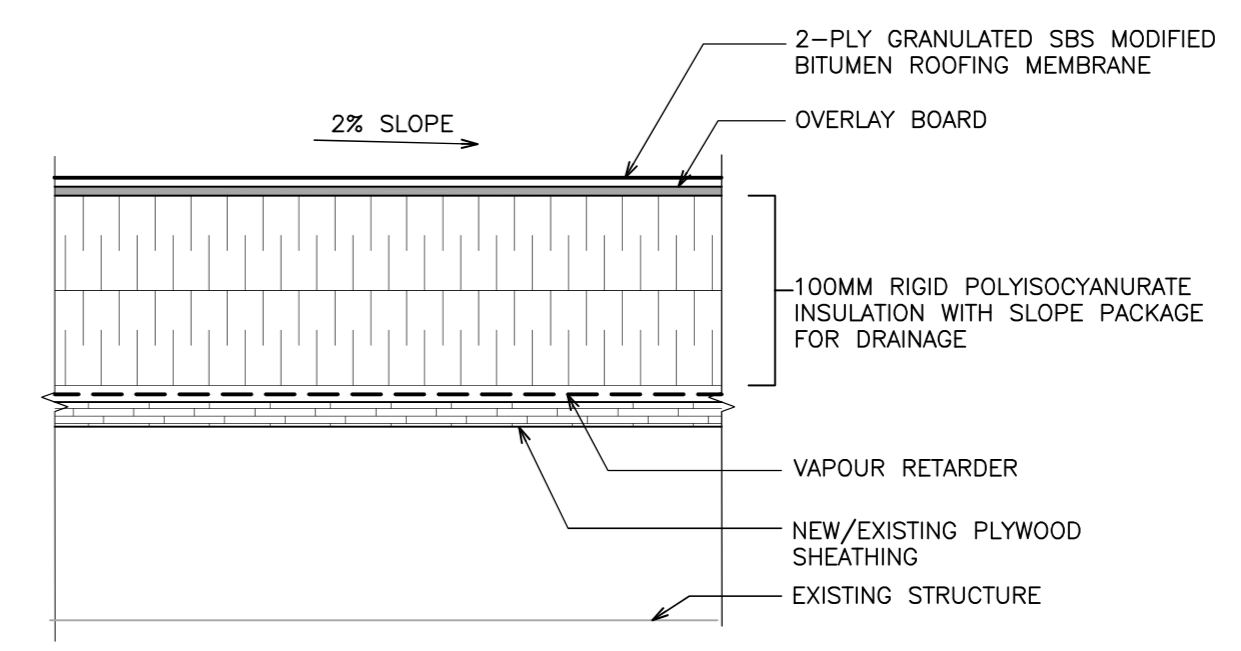


NOTES:
1. CONTRACTOR TO ENSURE TOP OF PARAPET IS MIN. 8" ABOVE THE ROOF SURFACE BY ADDING BLOCKING WHERE NECESSARY.
2. REFRAME PARAPETS AS REQUIRED TO ACCOMMODATE RE-SHEATHING.

3 TYPICAL ROOF EDGE DETAIL
4.2 1:5

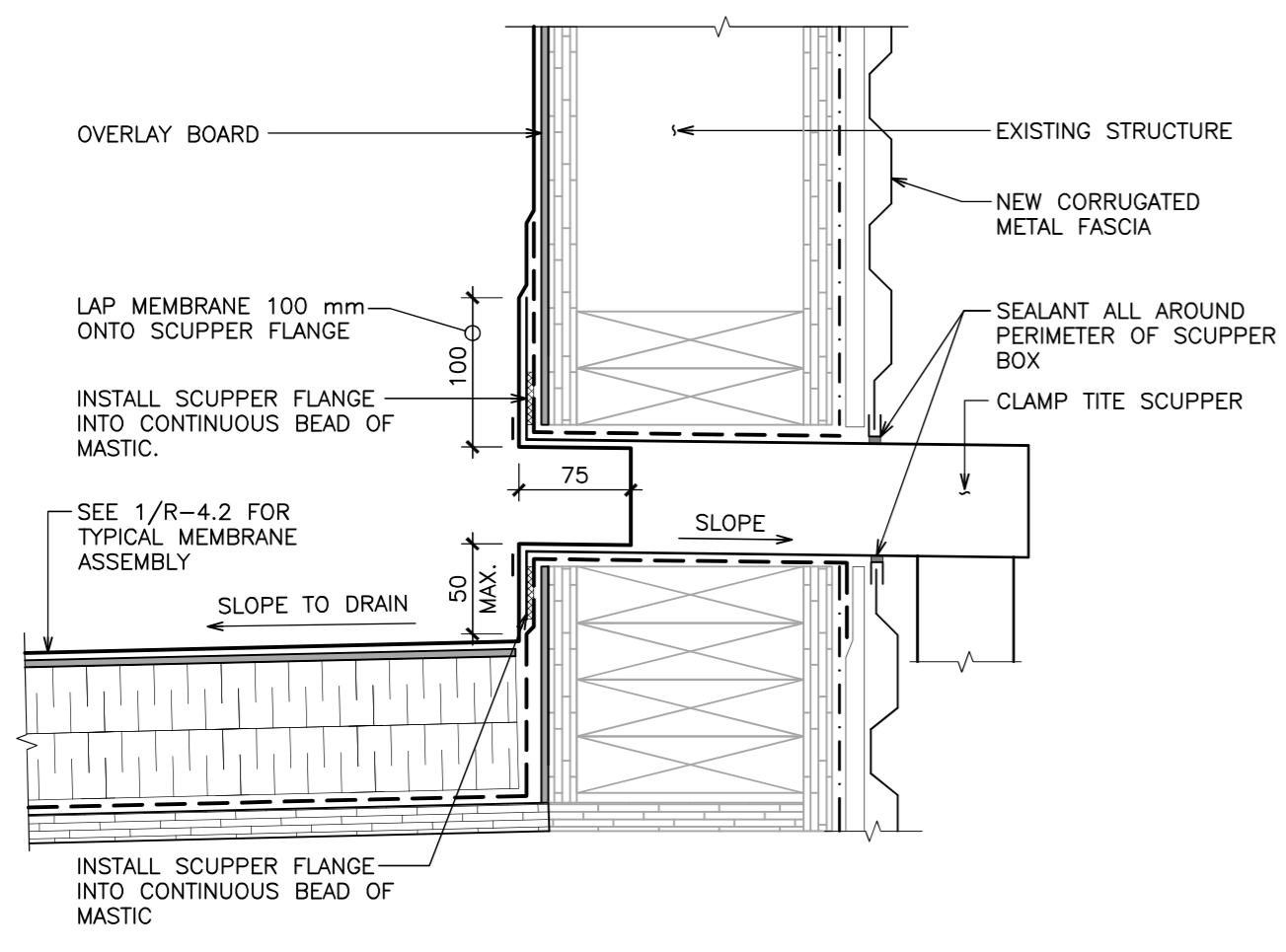


2 TYPICAL BASE OF WALL
4.2 1:5

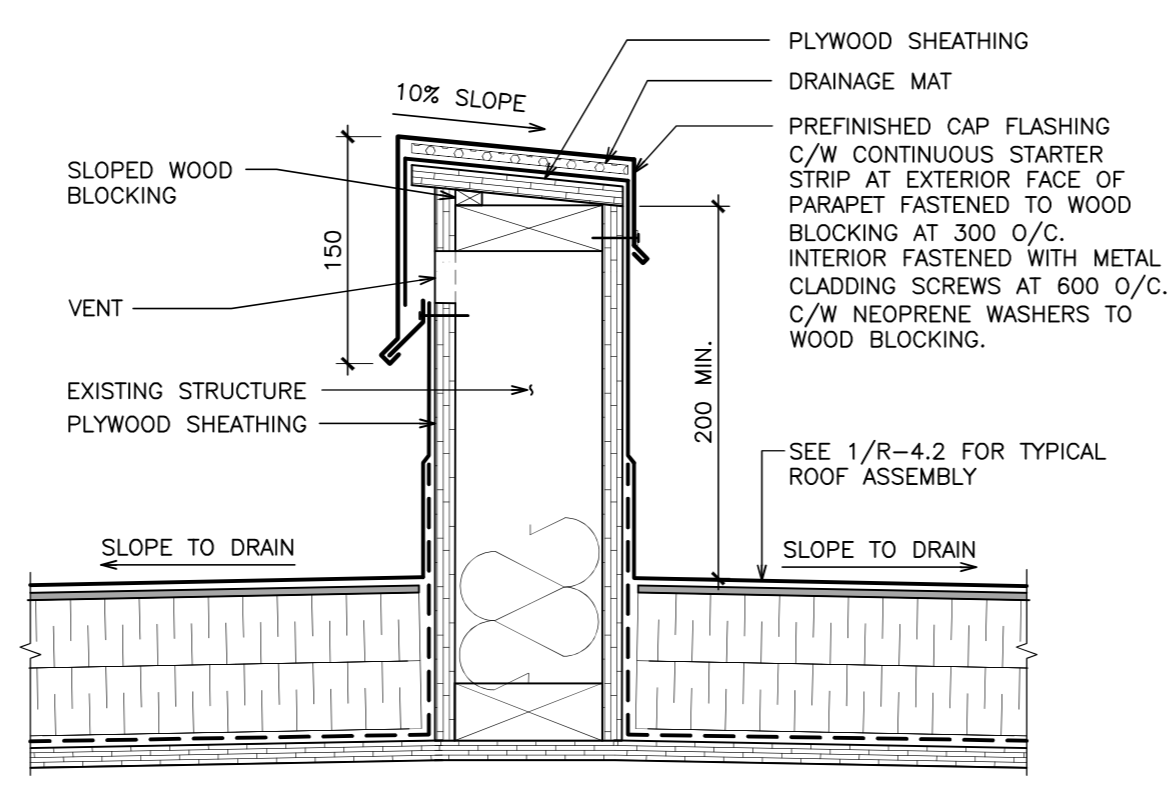


NOTES:
1. CONTRACTOR TO REPLACE PLYWOOD SHEATHING AS INDICATED ON S-4.01.
2. ADD TAPERED INSULATION AS NEEDED TO ACHIEVE 2% SLOPE.
3. ADD TAPERED INSULATION TO FORM CRICKETS AS REQUIRED TO PROVIDE ROOF DRAINAGE.

1 TYPICAL ROOF ASSEMBLY
4.2 N.T.S.

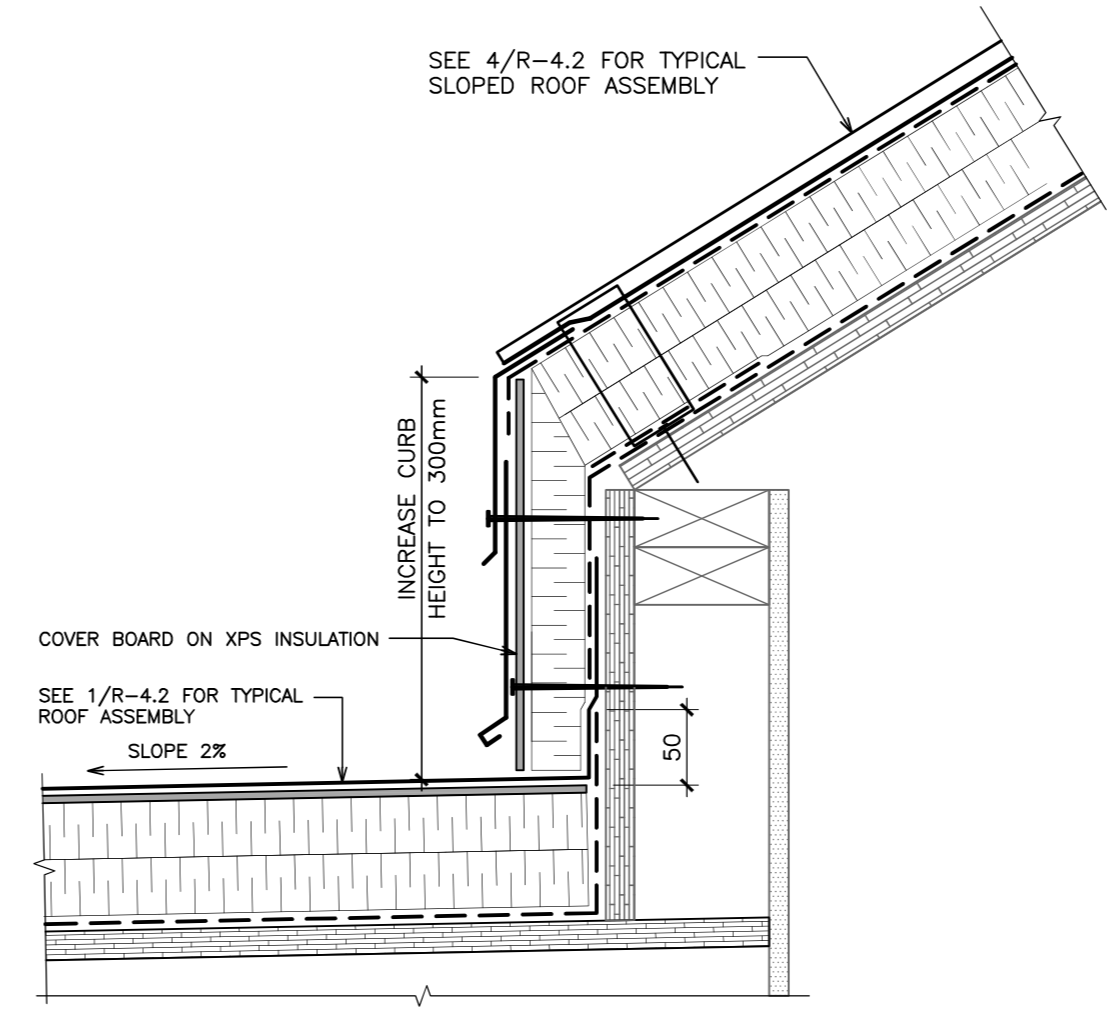


7 TYPICAL OVERFLOW SCUPPER DETAIL
4.2 1:5

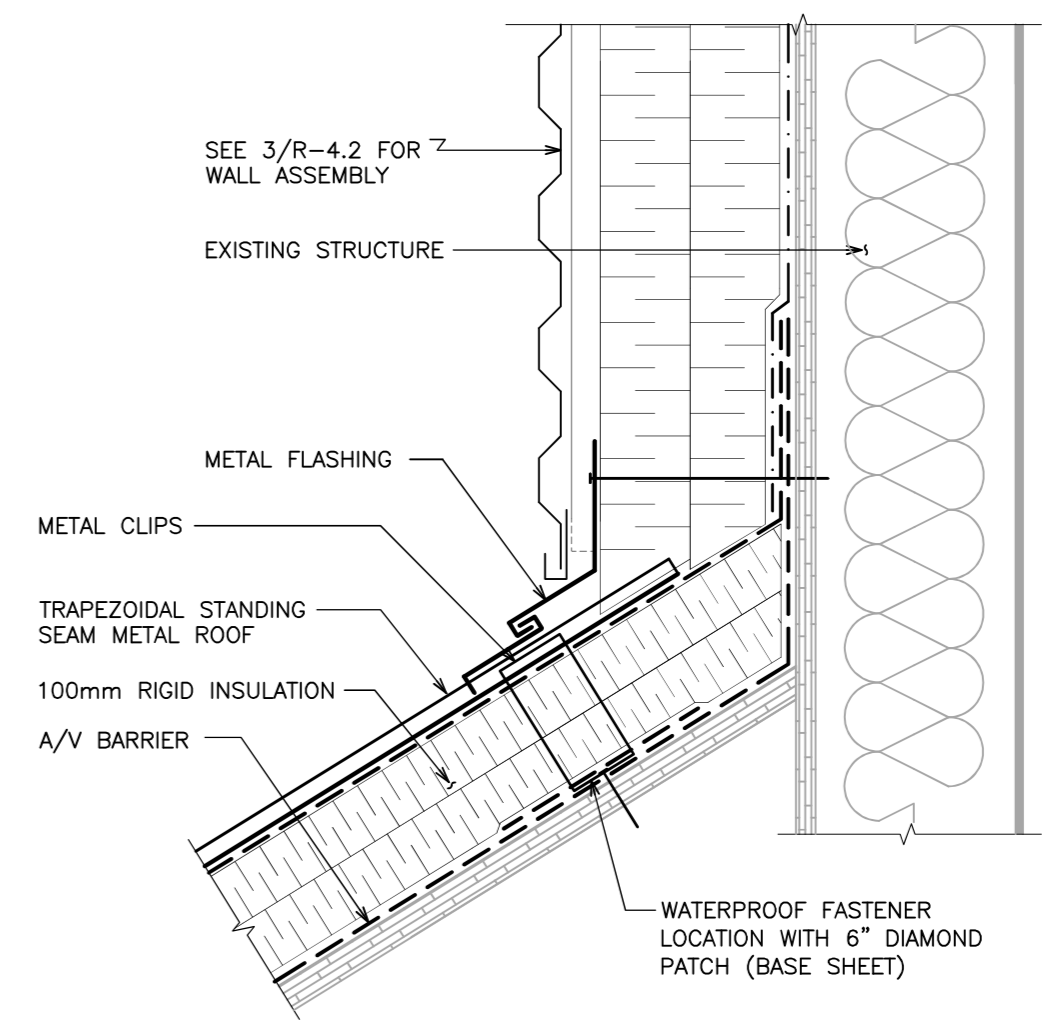


NOTE:
1. AT LOCATIONS OF OVERFLOW PIPES BETWEEN ROOF SECTIONS, CONTRACTOR TO REMOVE THE PIPE AND USE THIS DETAIL.
2. REFRAME PARAPETS AS REQUIRED TO ACCOMMODATE RE-SHEATHING.

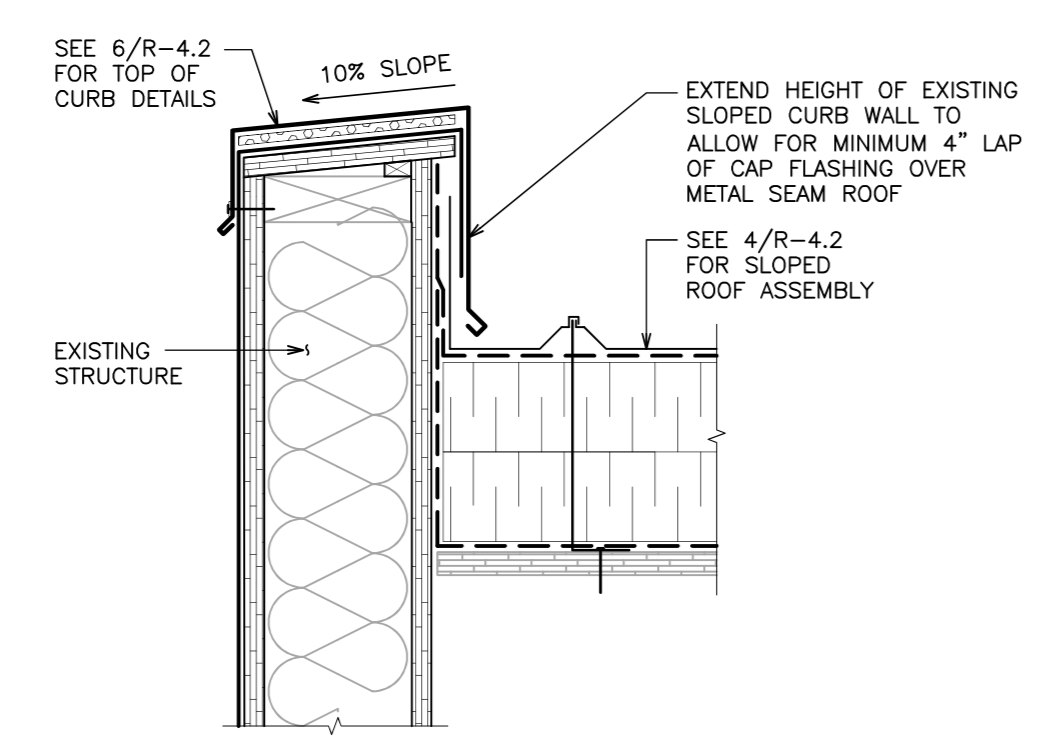
6 TYPICAL CURB DETAIL
4.2 1:5



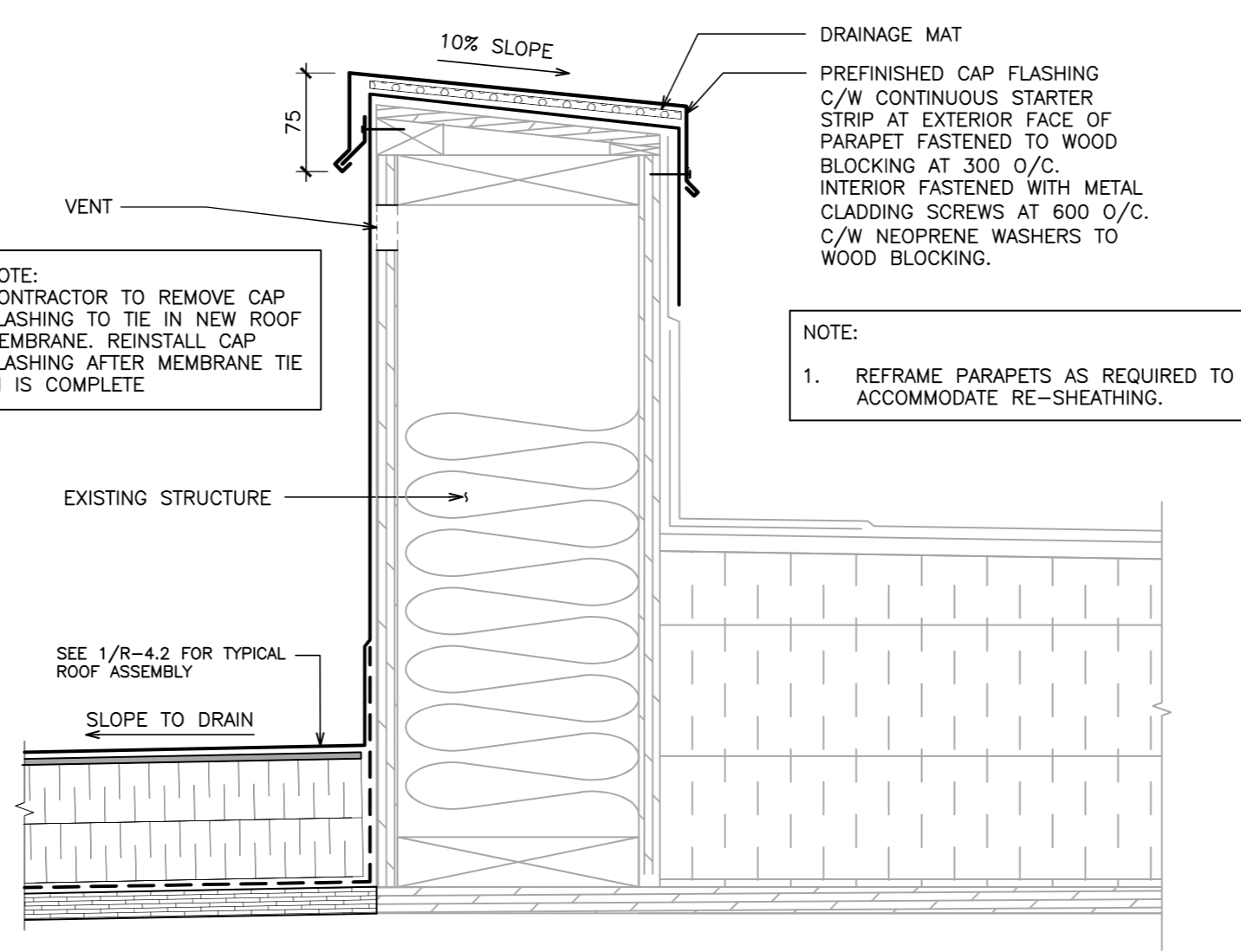
5 SLOPED ROOF METAL CLADDING TO ROOF MEMBRANE DETAIL
4.2 1:5



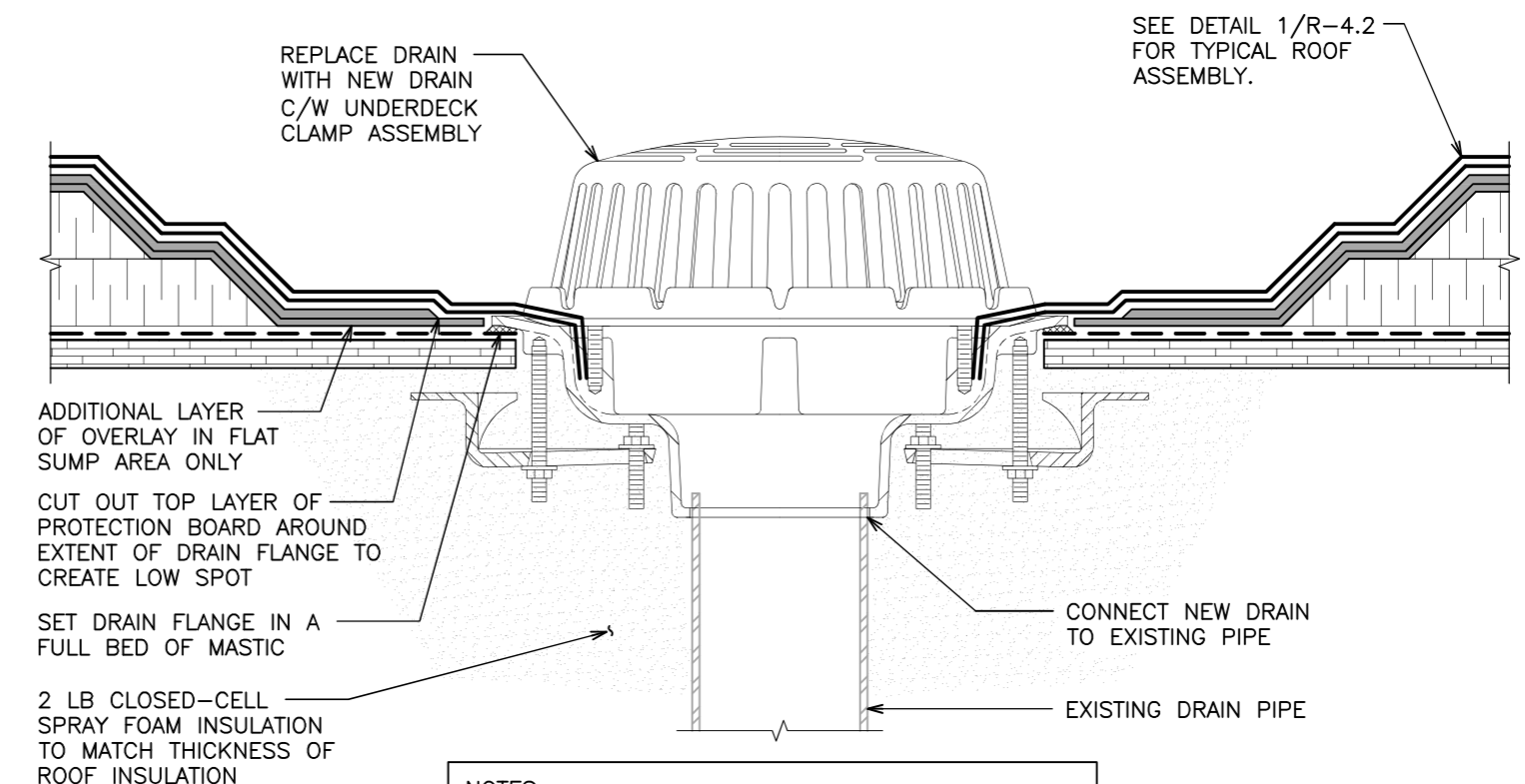
4 SLOPED ROOF METAL CLADDING TO FASCIA DETAIL
4.2 1:5



10 SLOPED ROOF TO SLOPED CURB TRANSITION
4.2 1:5

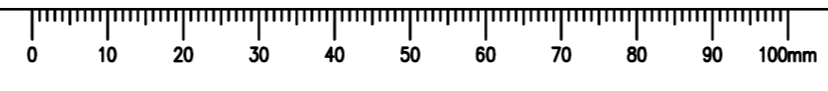


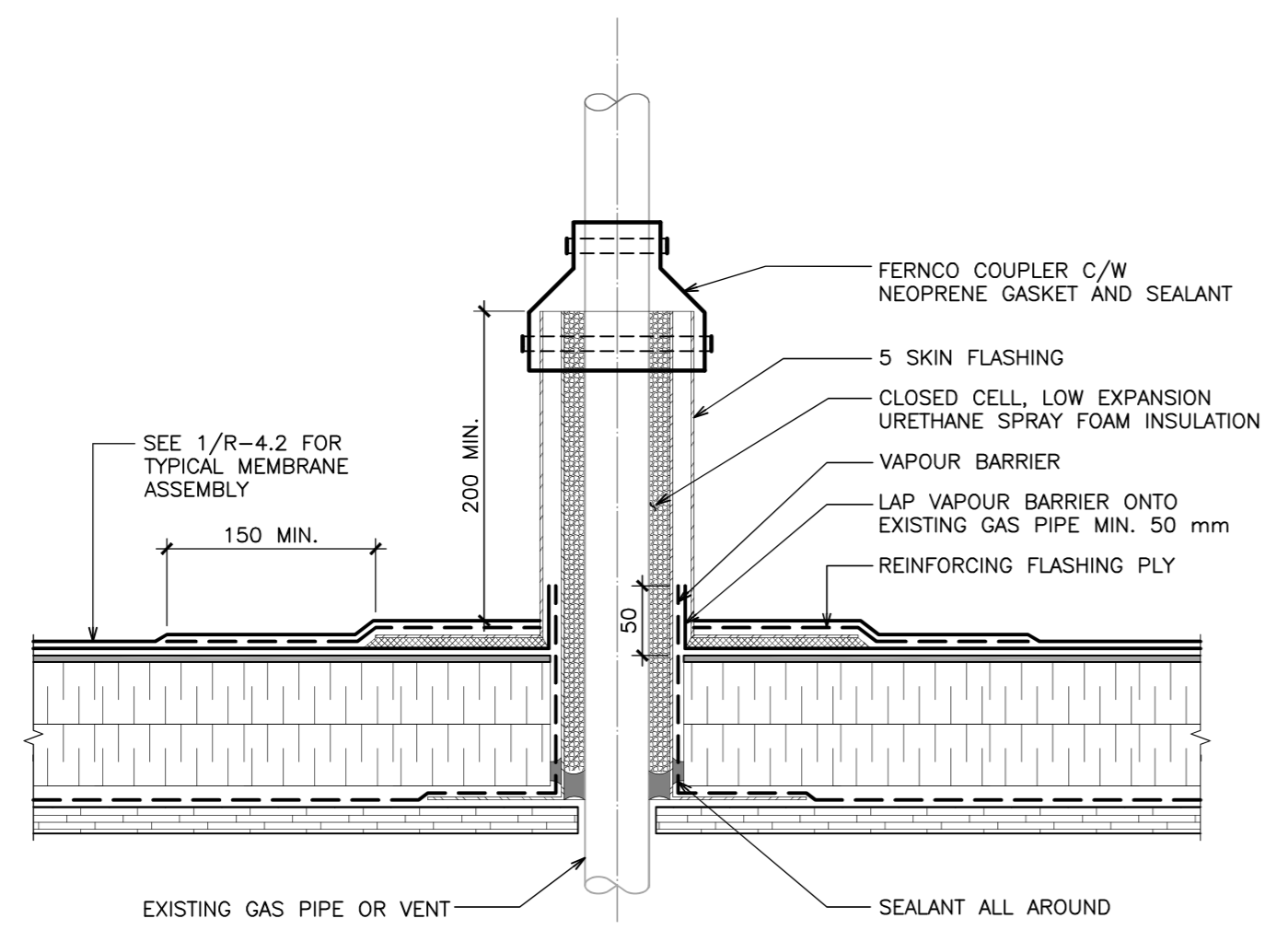
9 TYPICAL CURB BETWEEN NEW & EXISTING ROOFING DETAIL
4.2 1:5



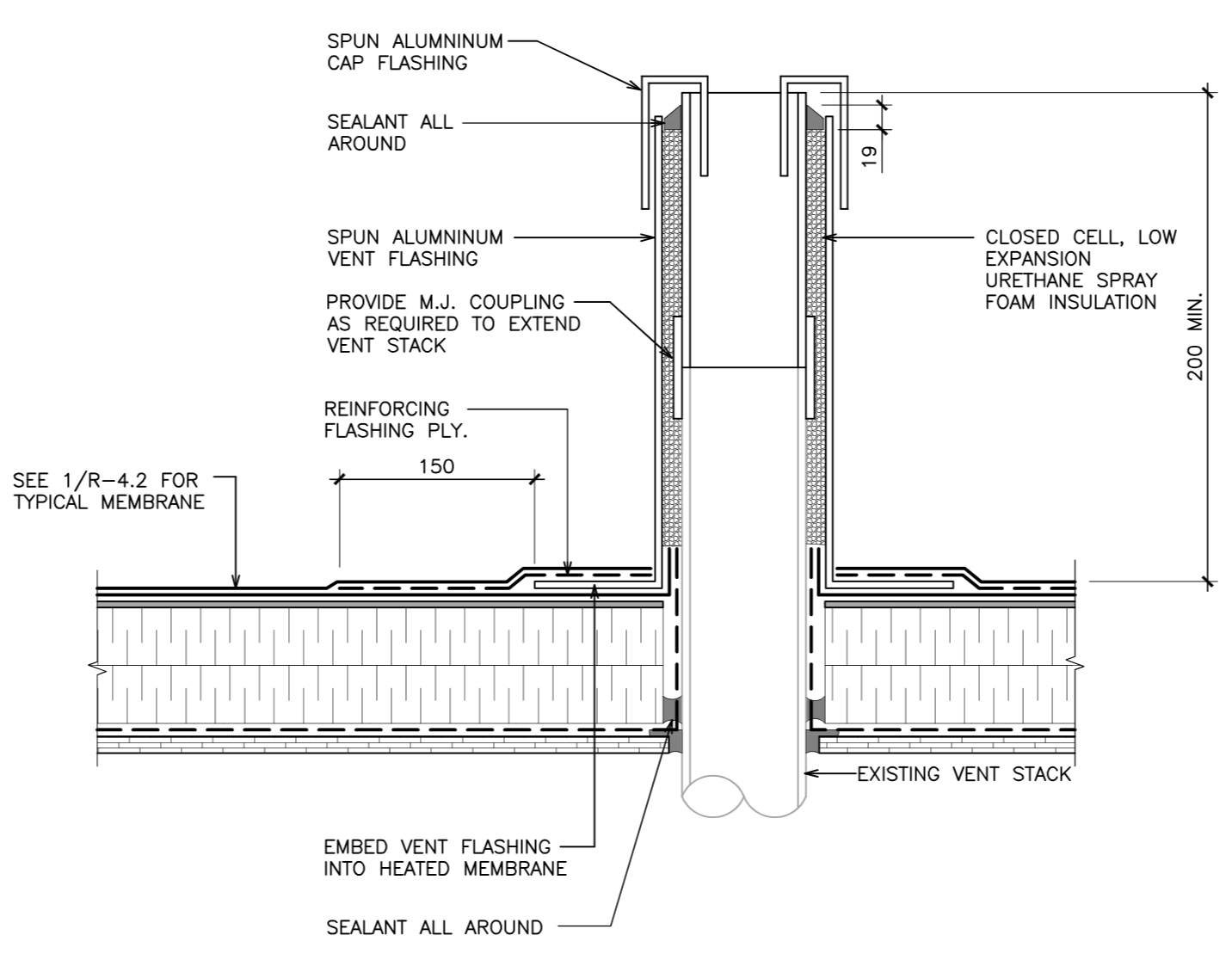
NOTES:
1. CONTRACTOR TO CONFIRM EXISTENCE OF INSULATION AROUND DRAIN PIPE. IF NO INSULATION, INSTALL INSULATION AROUND THE PIPE 2 m DOWN.

8 TYPICAL ROOF DRAIN
4.2 1:5

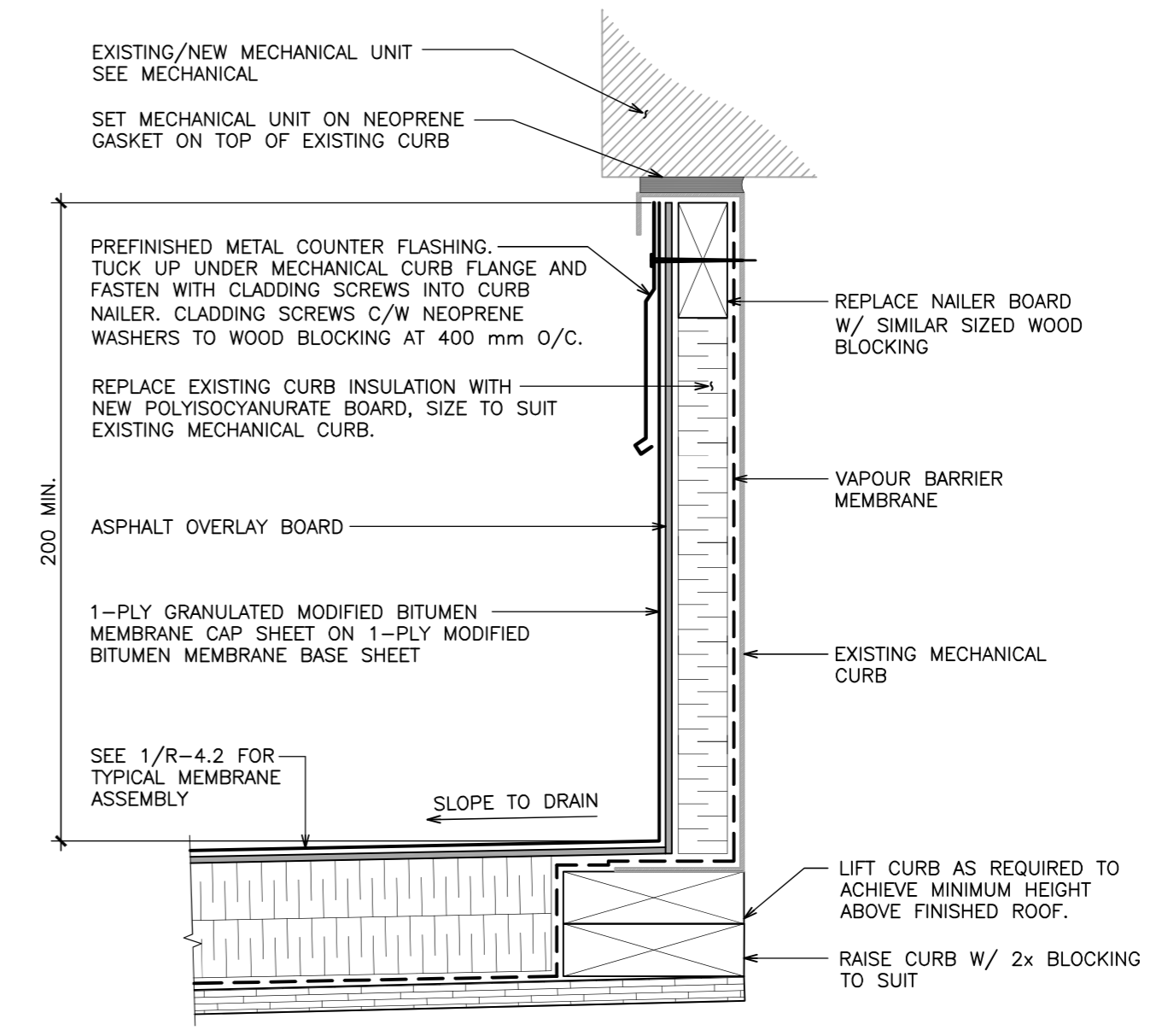




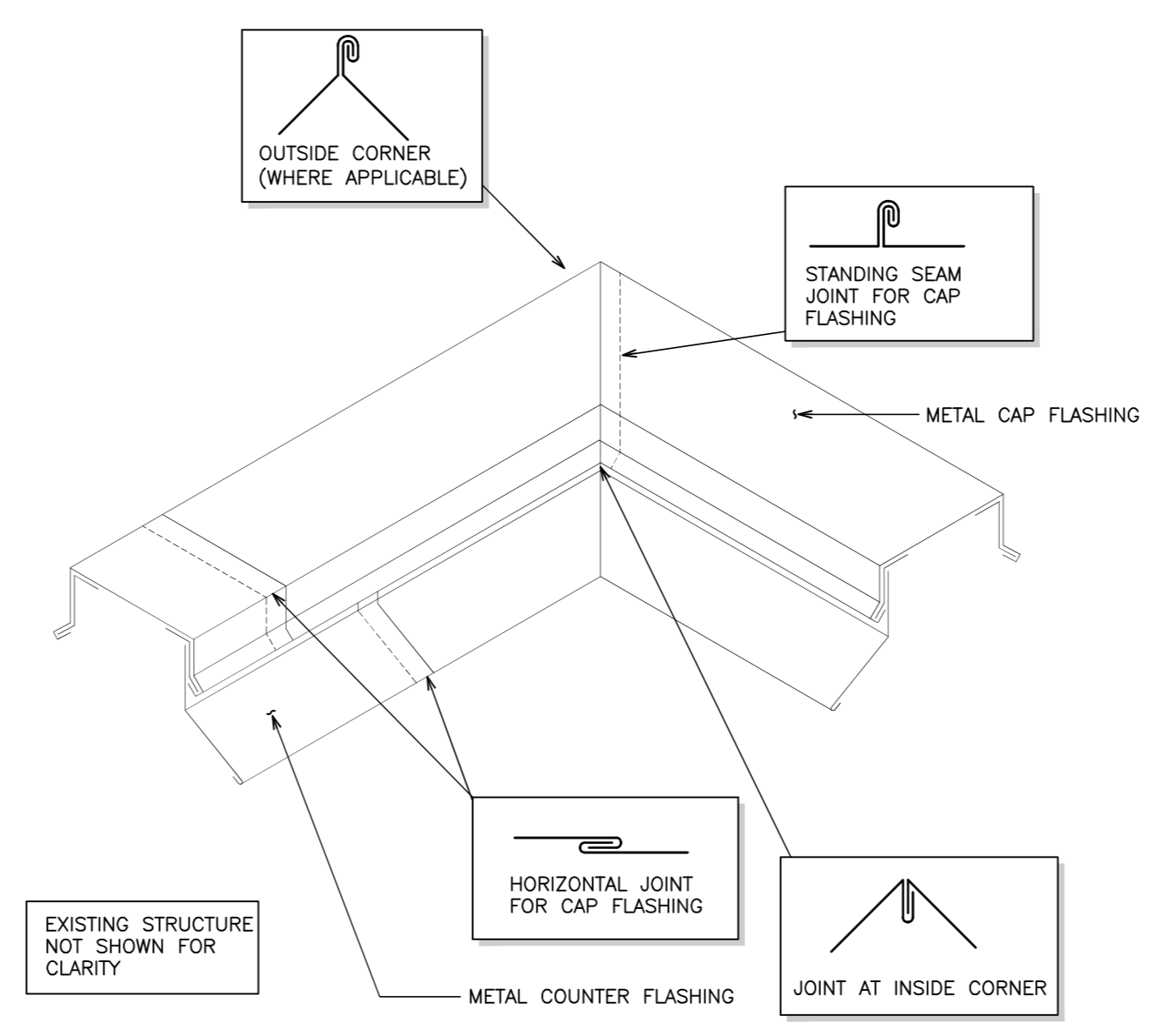
3
4.3 1:5
TYPICAL GAS PENETRATION DETAIL



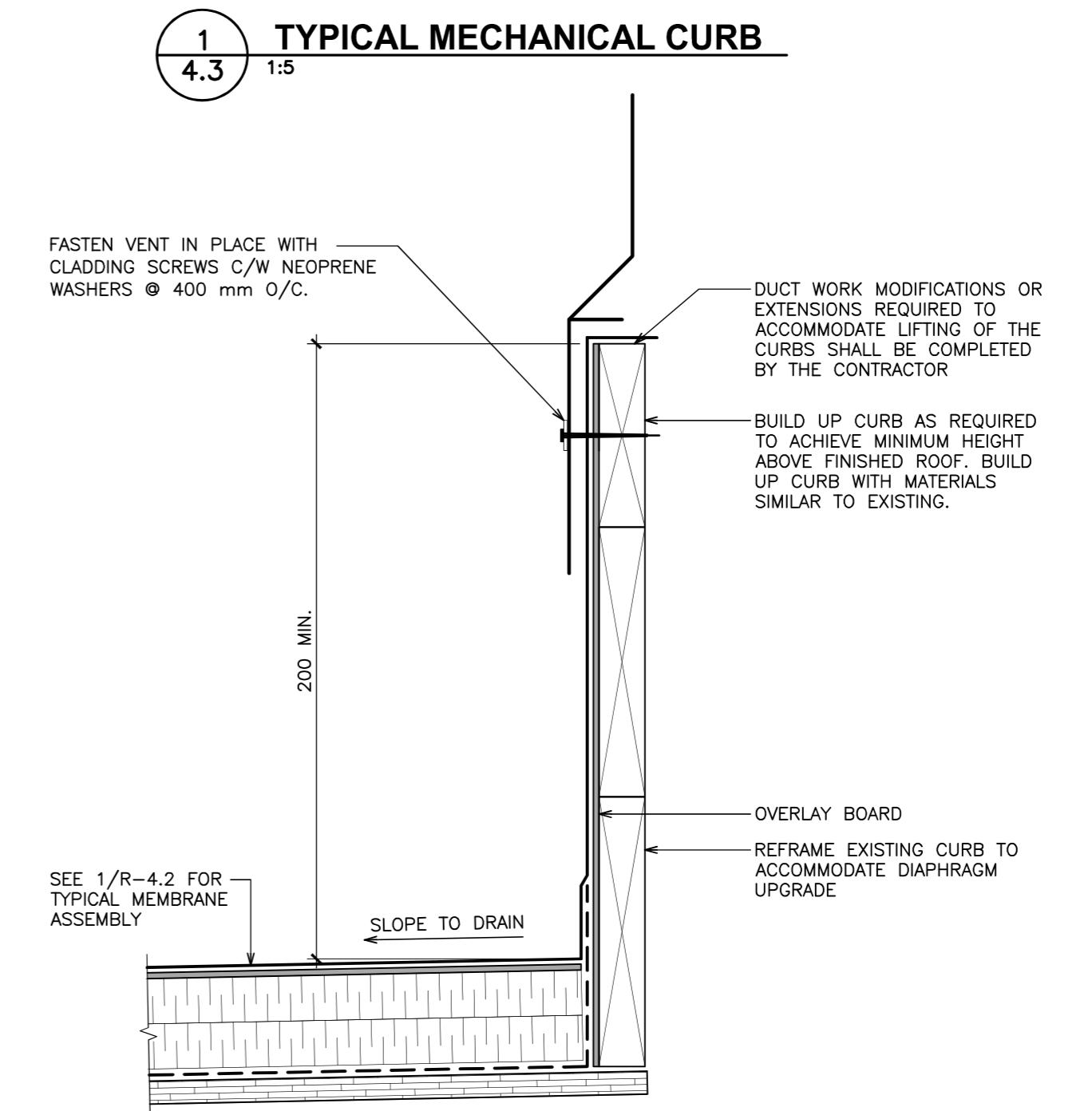
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4.3 1:5
TYPICAL STACK VENT



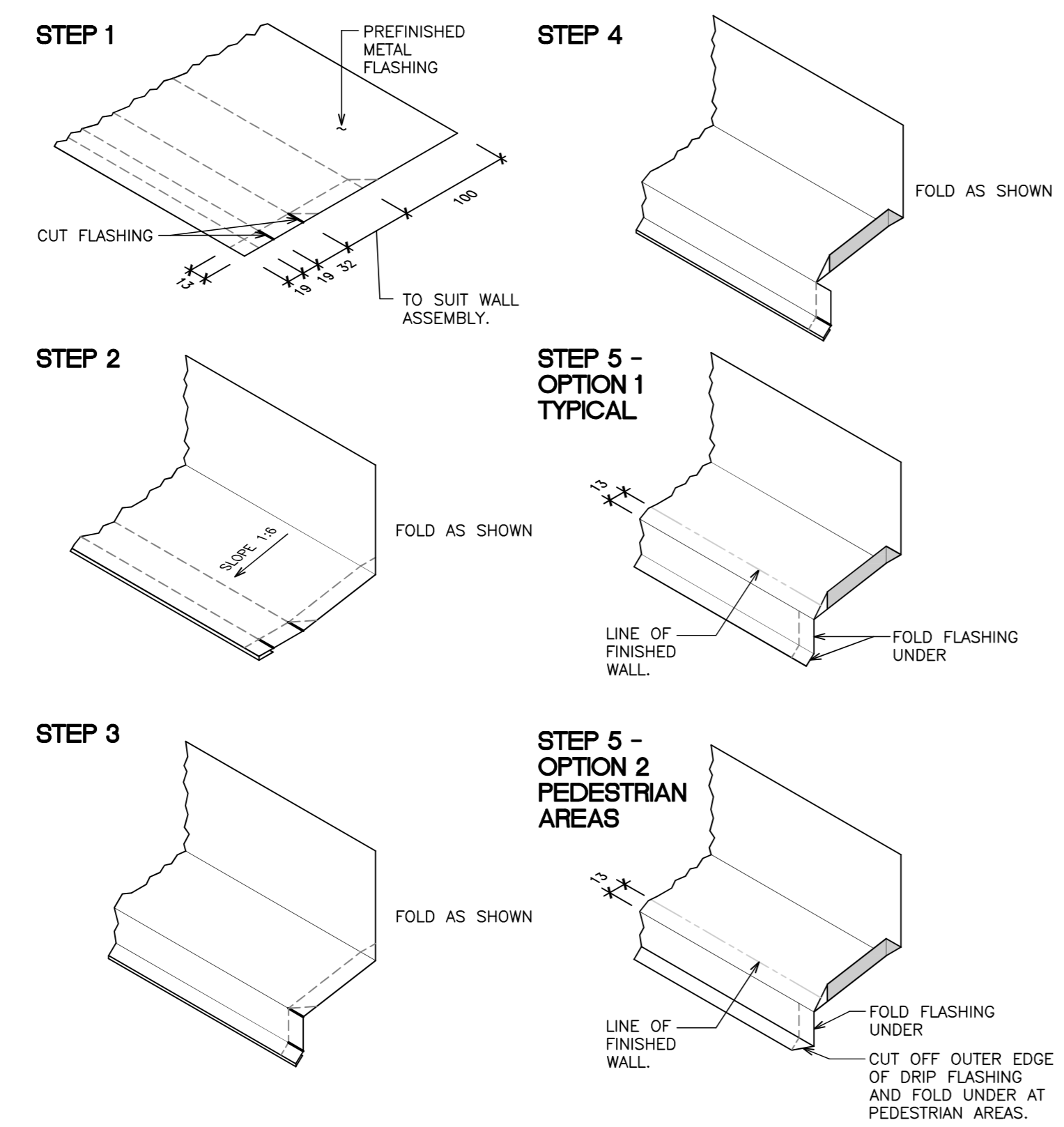
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4.3 1:5
TYPICAL MECHANICAL CURB



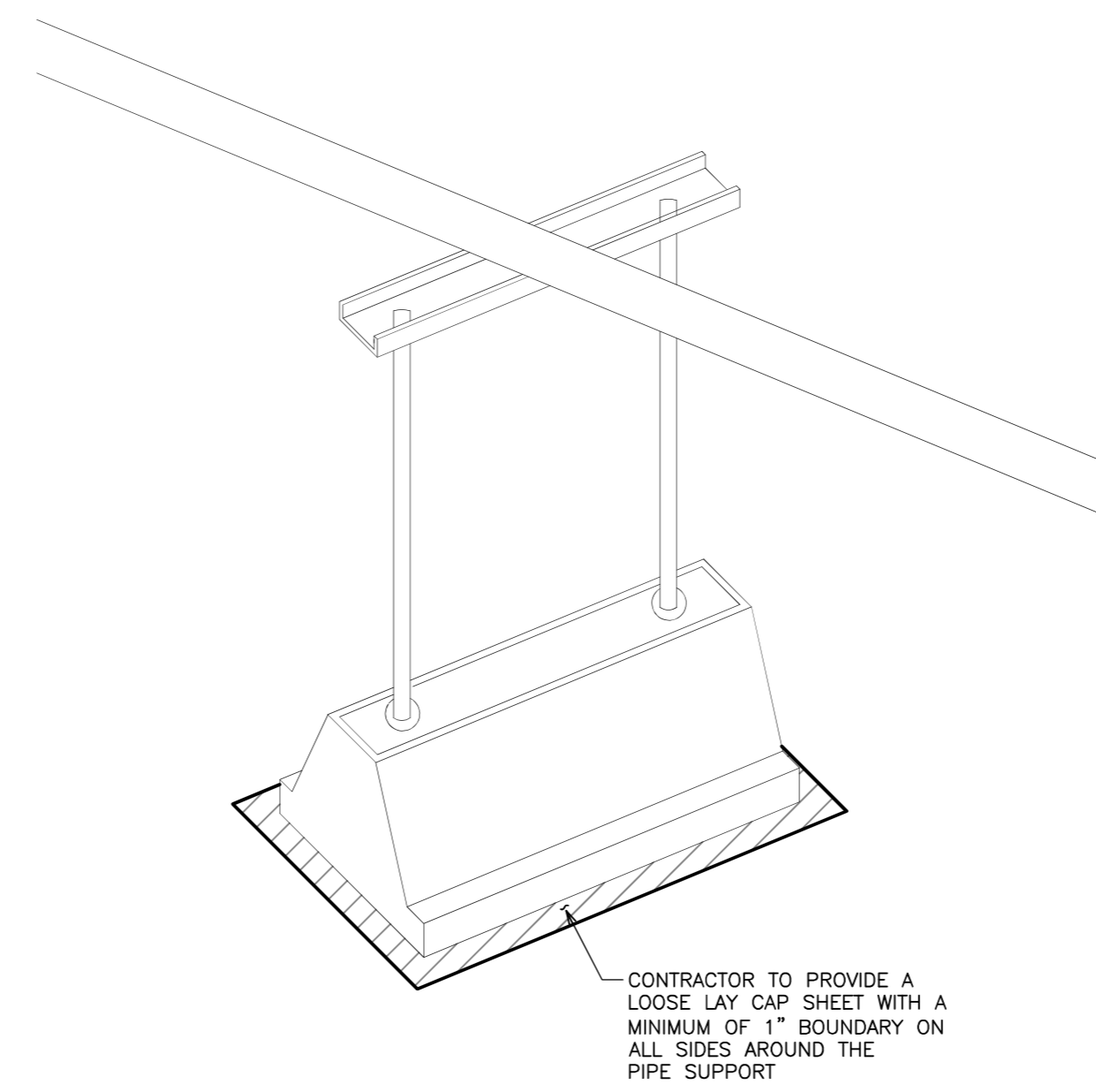
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4.3 N.T.S.
TYPICAL FLASHING DETAIL AT CORNER



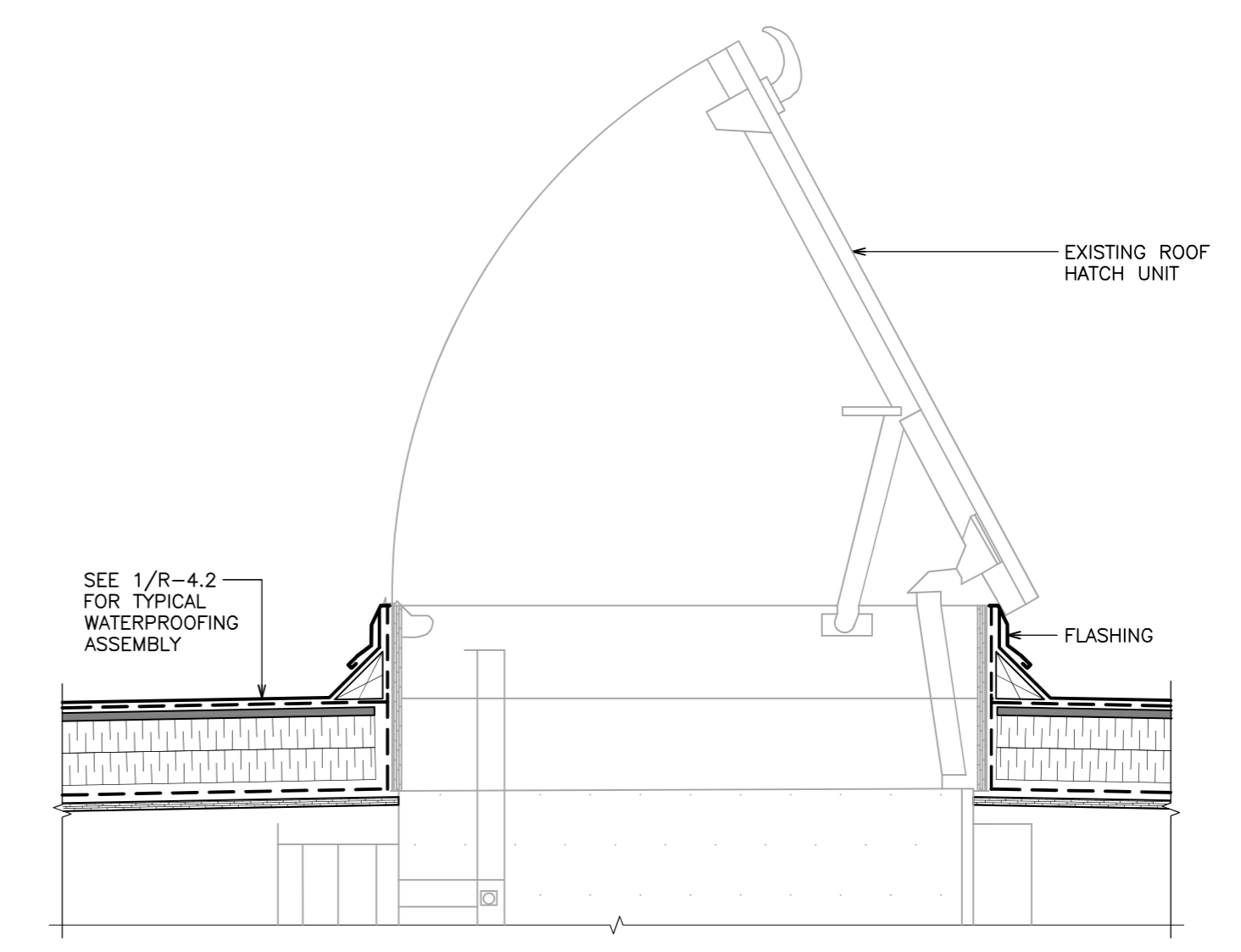
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4.3 1:5
TYPICAL EXHAUST PENETRATION DETAIL



8
4.3 N.T.S.
TYPICAL METAL FLASHING END DAM ASSEMBLY

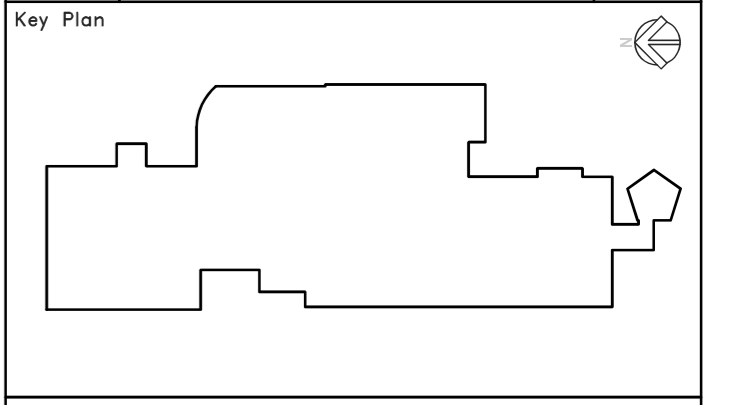


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4.3 N.T.S.
TYPICAL PIPE SUPPORT DETAIL



6
4.3 1:10
TYPICAL ROOF HATCH

Revision/Revision	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
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1	ISSUED FOR 75% REVIEW	MAR 06/20



Sub-Consultant

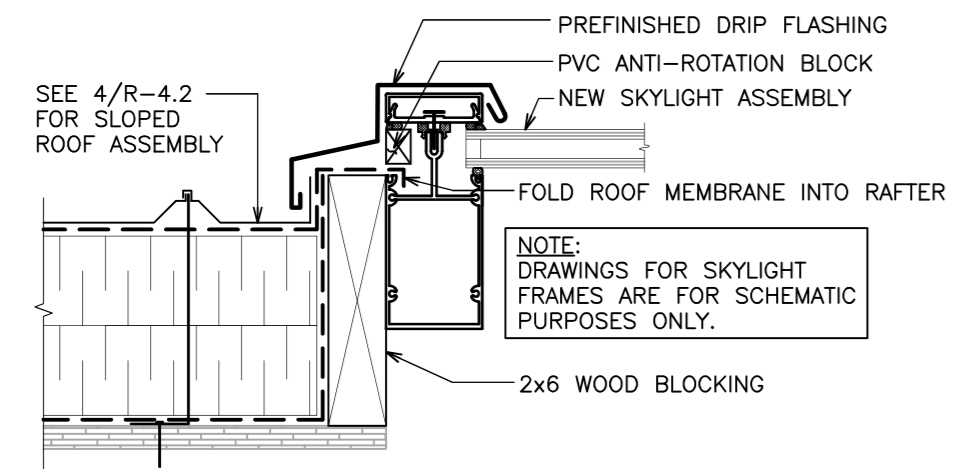
Prime Consultant
rjc RJC Project No. KEL.021700.0004
Engineers

Client/client
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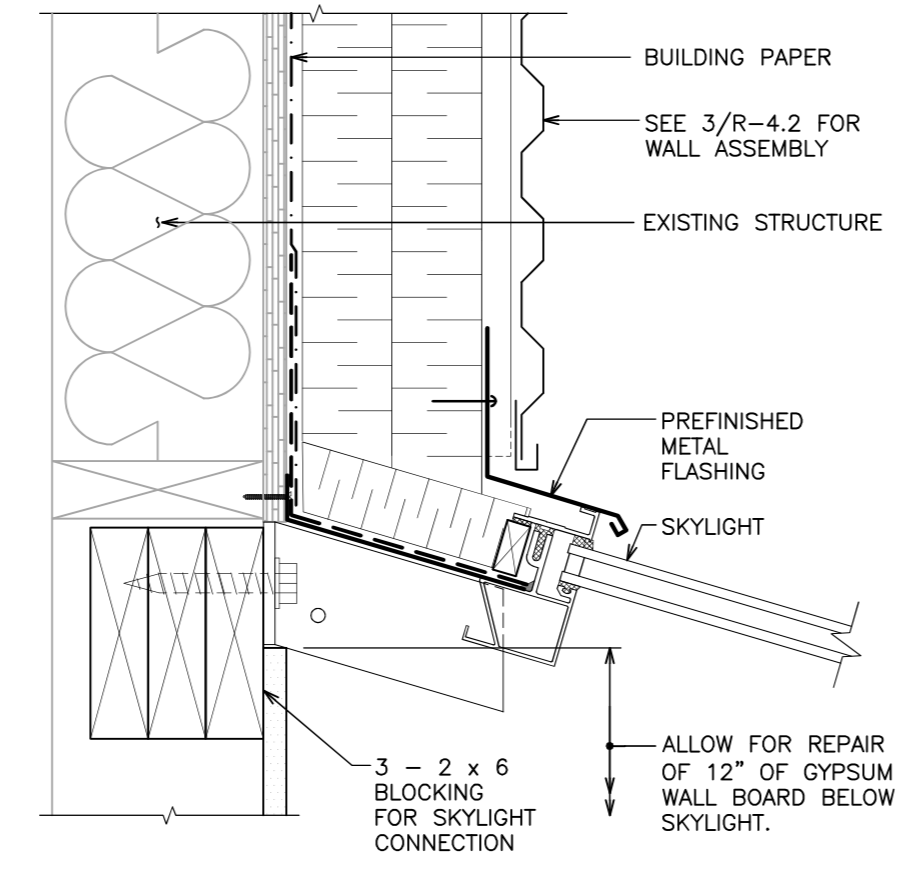
Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

Consultant Signature Only
Designed by/Concept par
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BPT
PWSC Project Manager/Administrateur de Projets TPSCG
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCG
PREETIPAL PAUL
Drawing title/Titre du dessin
ROOF DETAILS

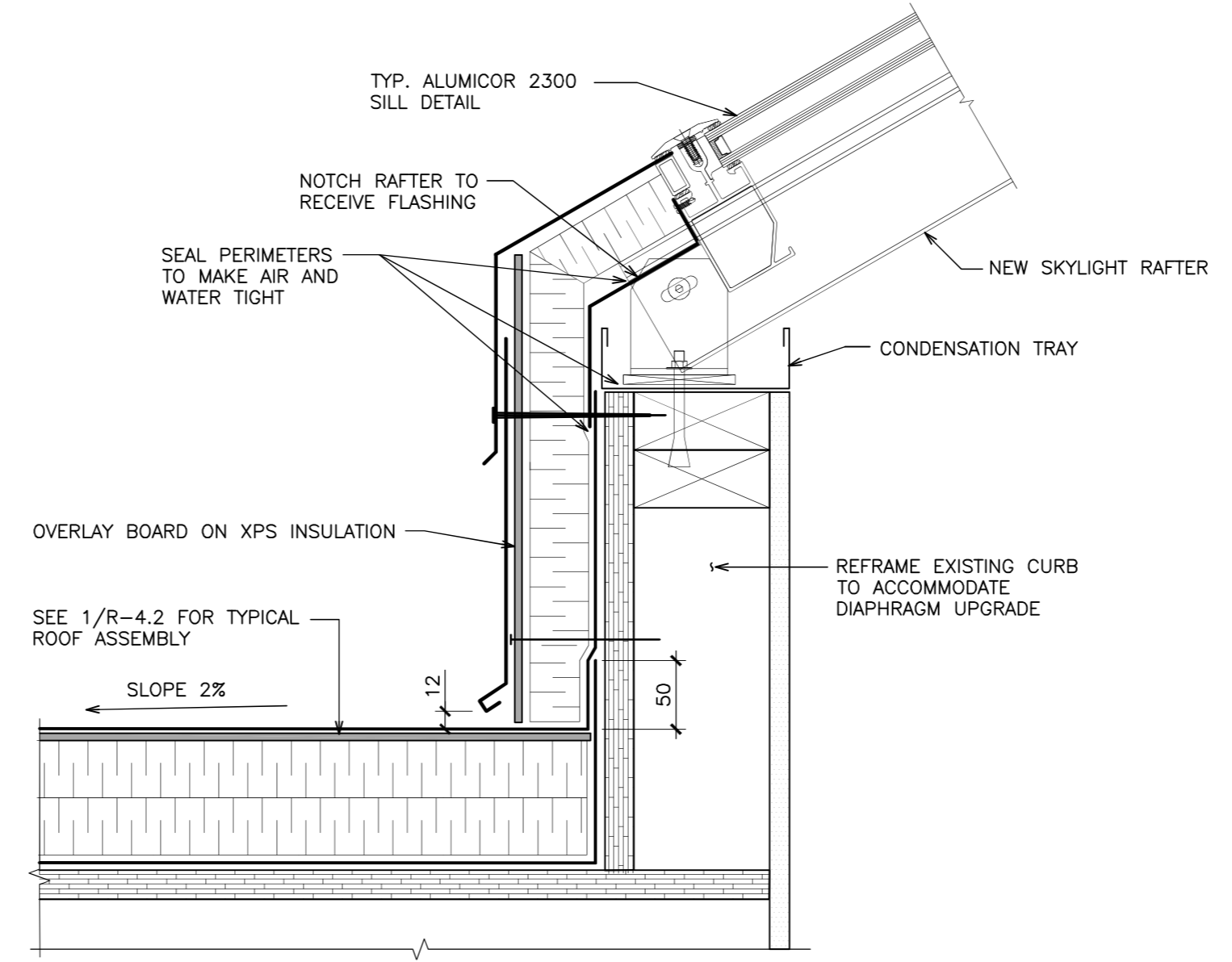
Project No./No. du projet R.105676.001	Sheet/Feuille R-4.3 9 OF 14	Revision no./Lo Révision no. 4
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4
4.4 TYPICAL SKYLIGHT JAMB
1:5



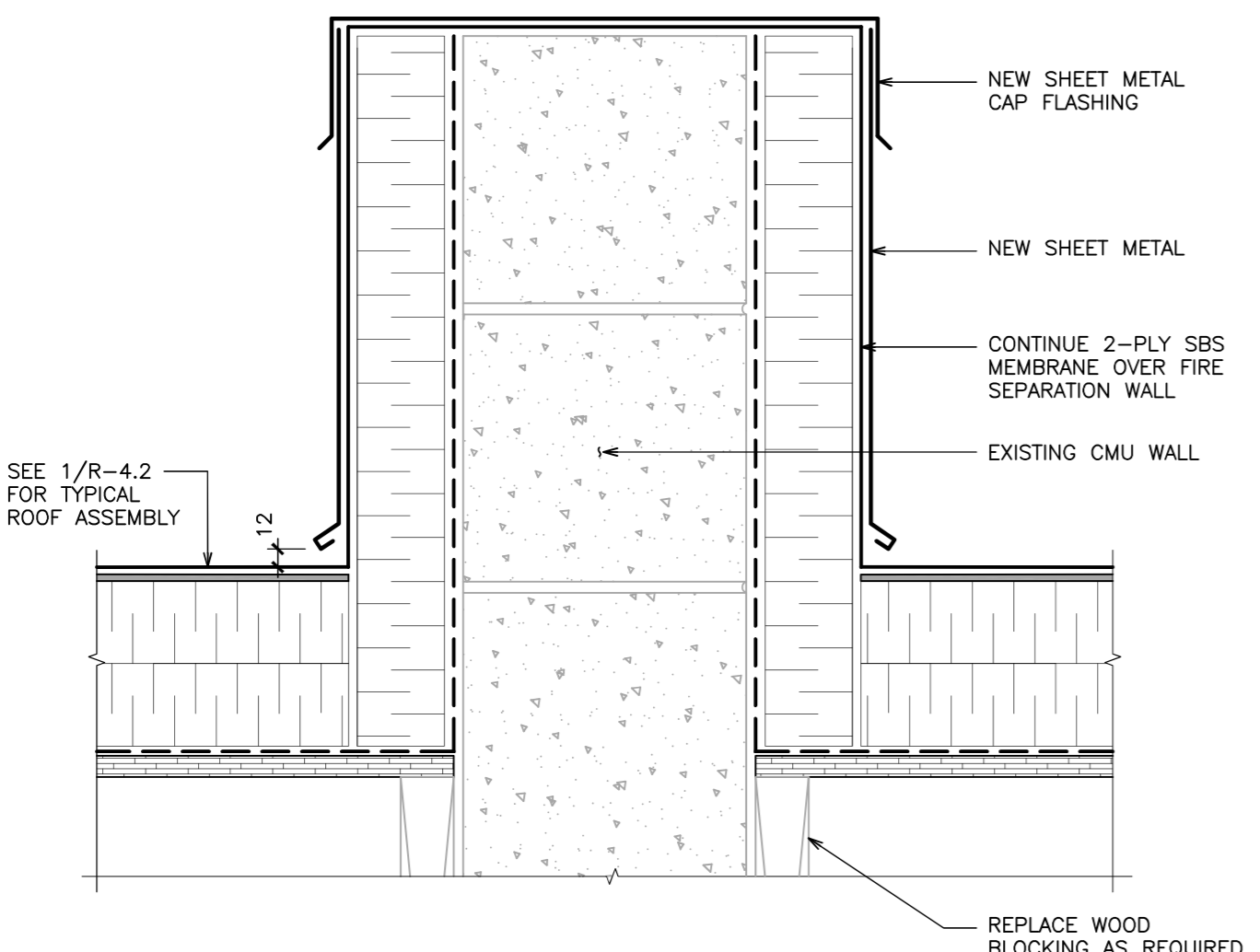
3
4.4 TYPICAL SKYLIGHT HEAD
1:5



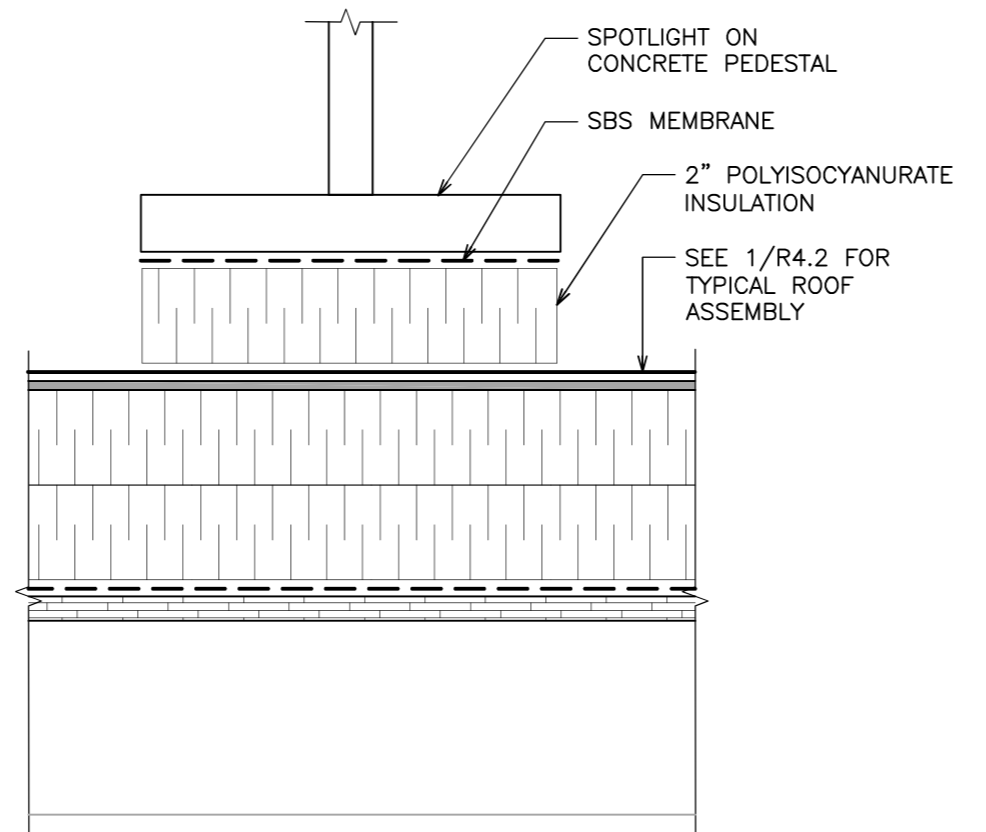
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4.4 TYPICAL SKYLIGHT SIDE DETAIL
1:5

1
4.4 TYPICAL SKYLIGHT END DETAIL
1:5

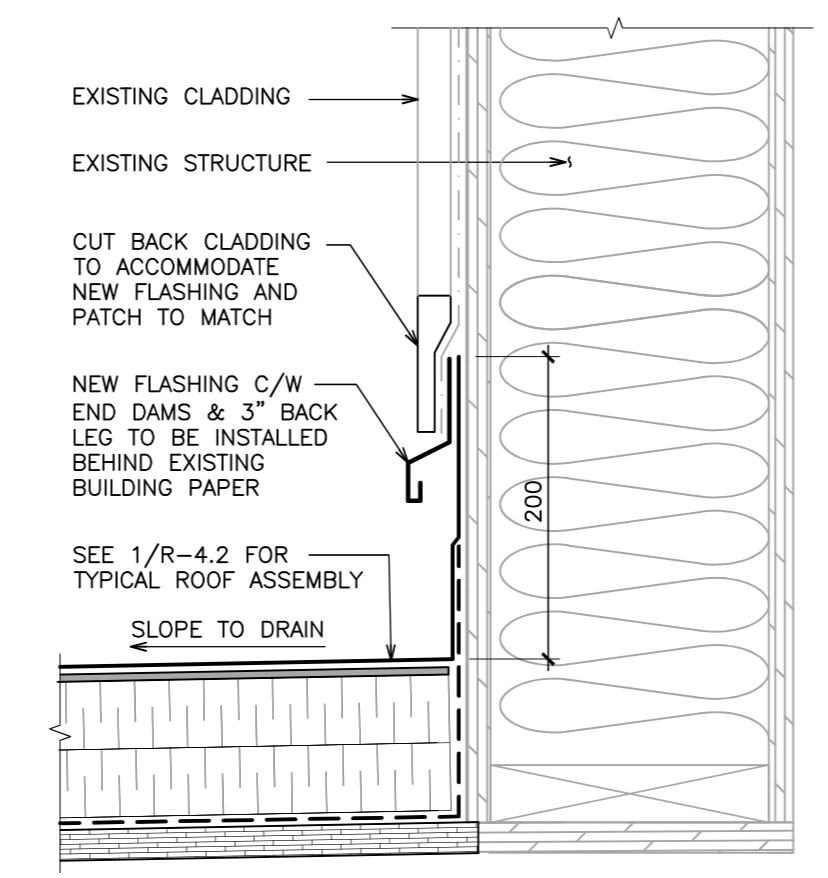
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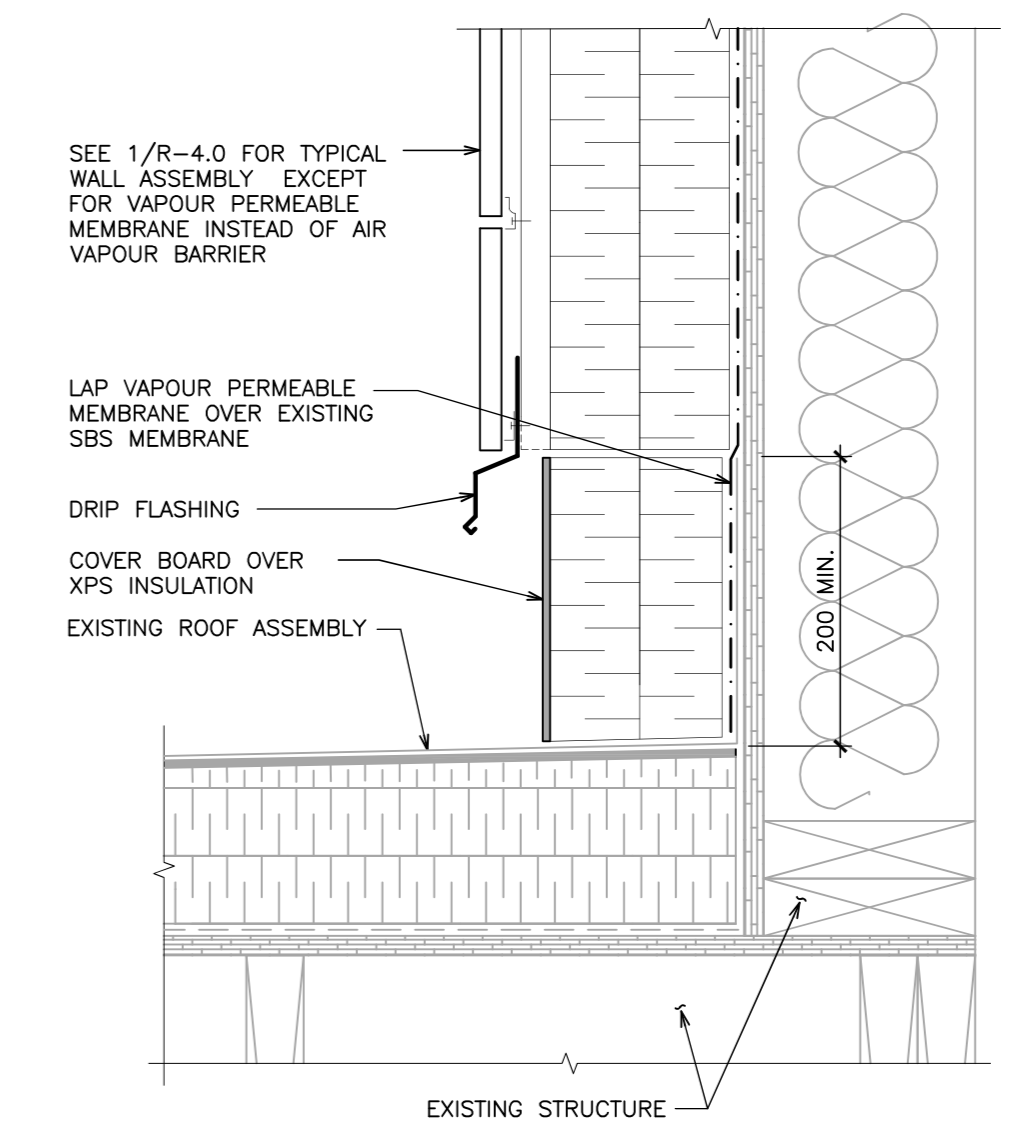
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4.4 FIRE SEPARATION WALL CLADDING
1:5



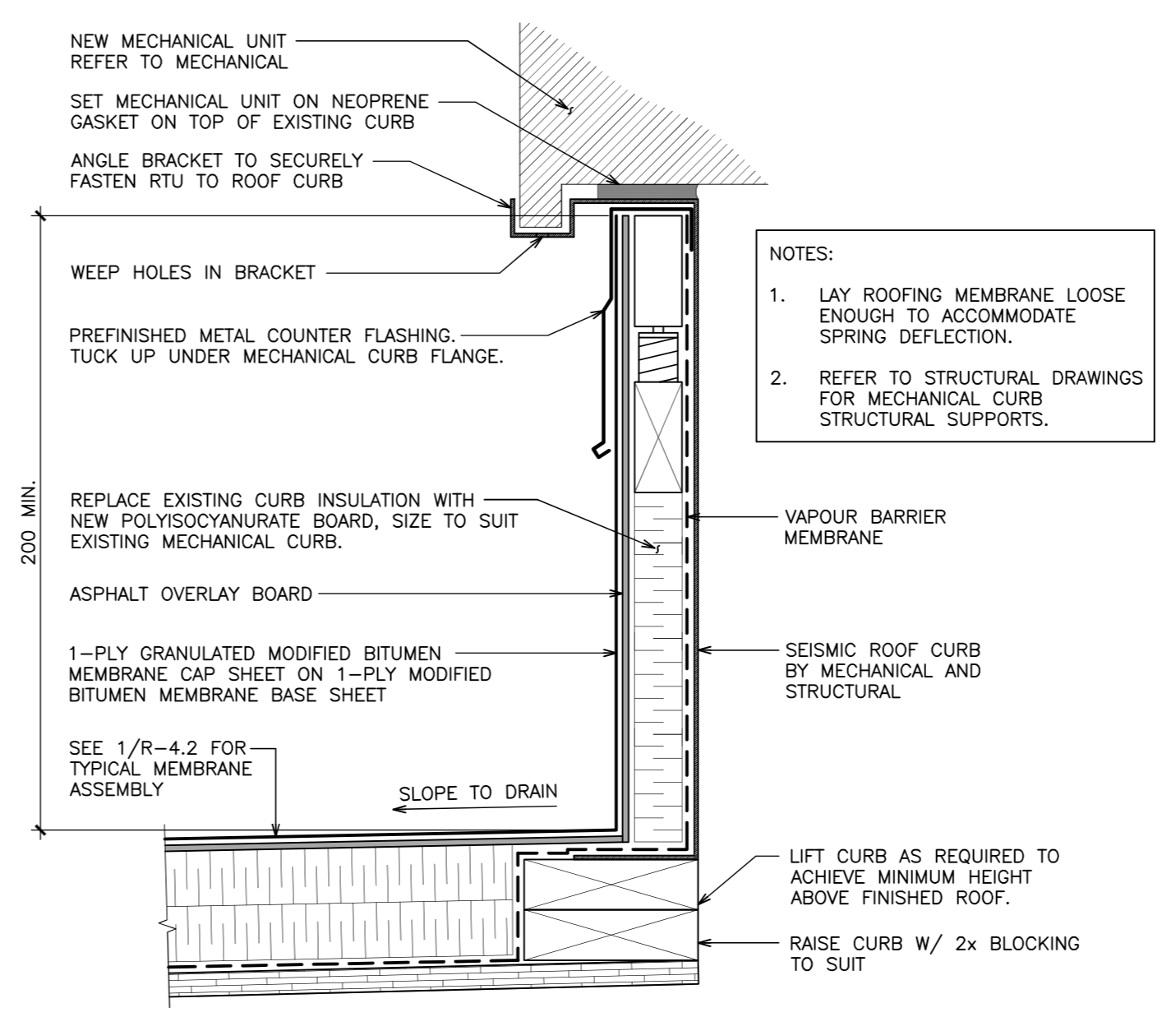
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4.4 SPOT LIGHT ON ROOF
N.T.S.



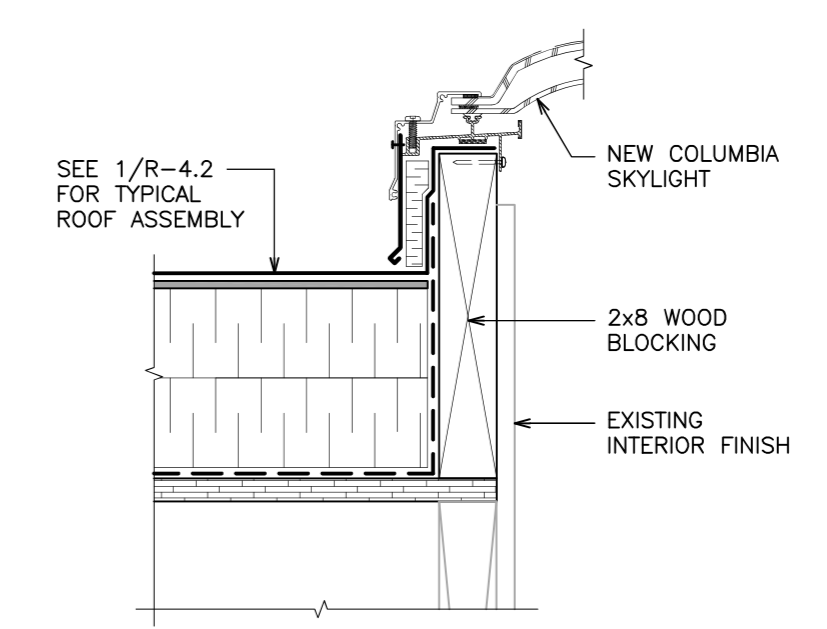
6
4.4 NEW ROOF TO NAV CANADA TOWER
1:5



5
4.4 WALL TO EXISTING ROOF
1:5

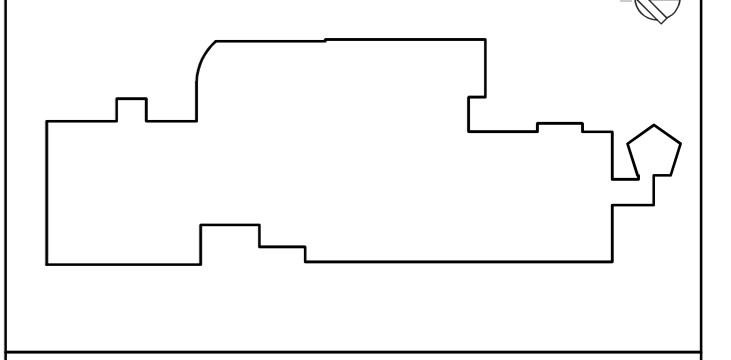


10
4.4 TYPICAL NEW MECHANICAL CURB
1:5



9
4.4 TYPICAL COLUMBIA SKYLIGHT
1:5

Revision/Revision	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
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1	ISSUED FOR 75% REVIEW	MAR 6/20



Sub-Consultant

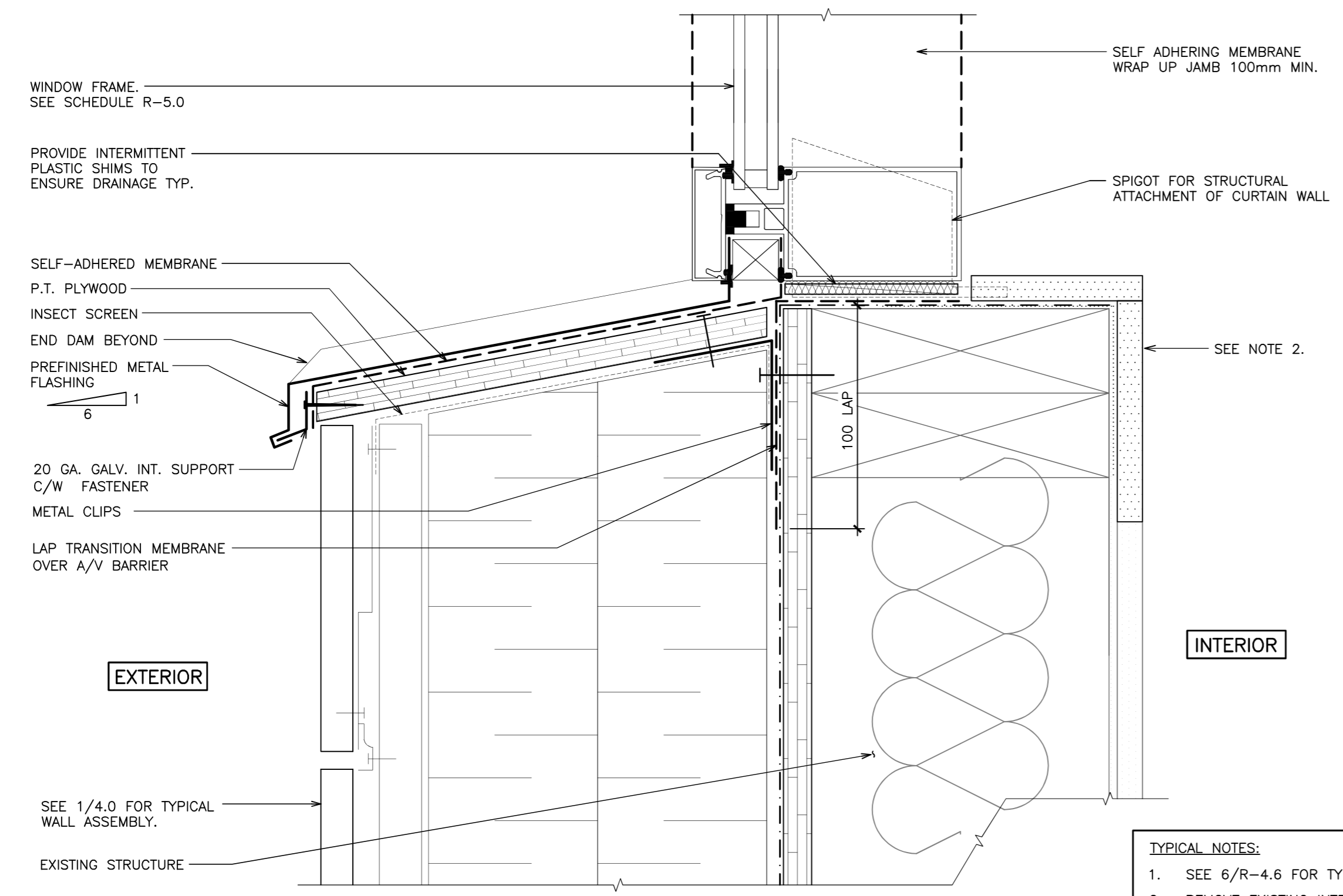
Prime Consultant
rjc Engineers
RJC Project No. KEL.021700.0004

Client/client
TRANSPORT CANADA
800 BARRARD ST VANCOUVER, B.C.

Project title/Titre du projet
3000 AIRPORT ROAD PENTICTON, BC
PENTICTON ATB ROOF SEISMIC UPGRADE ROOFING & BUILDING ENVELOPE PROJECT

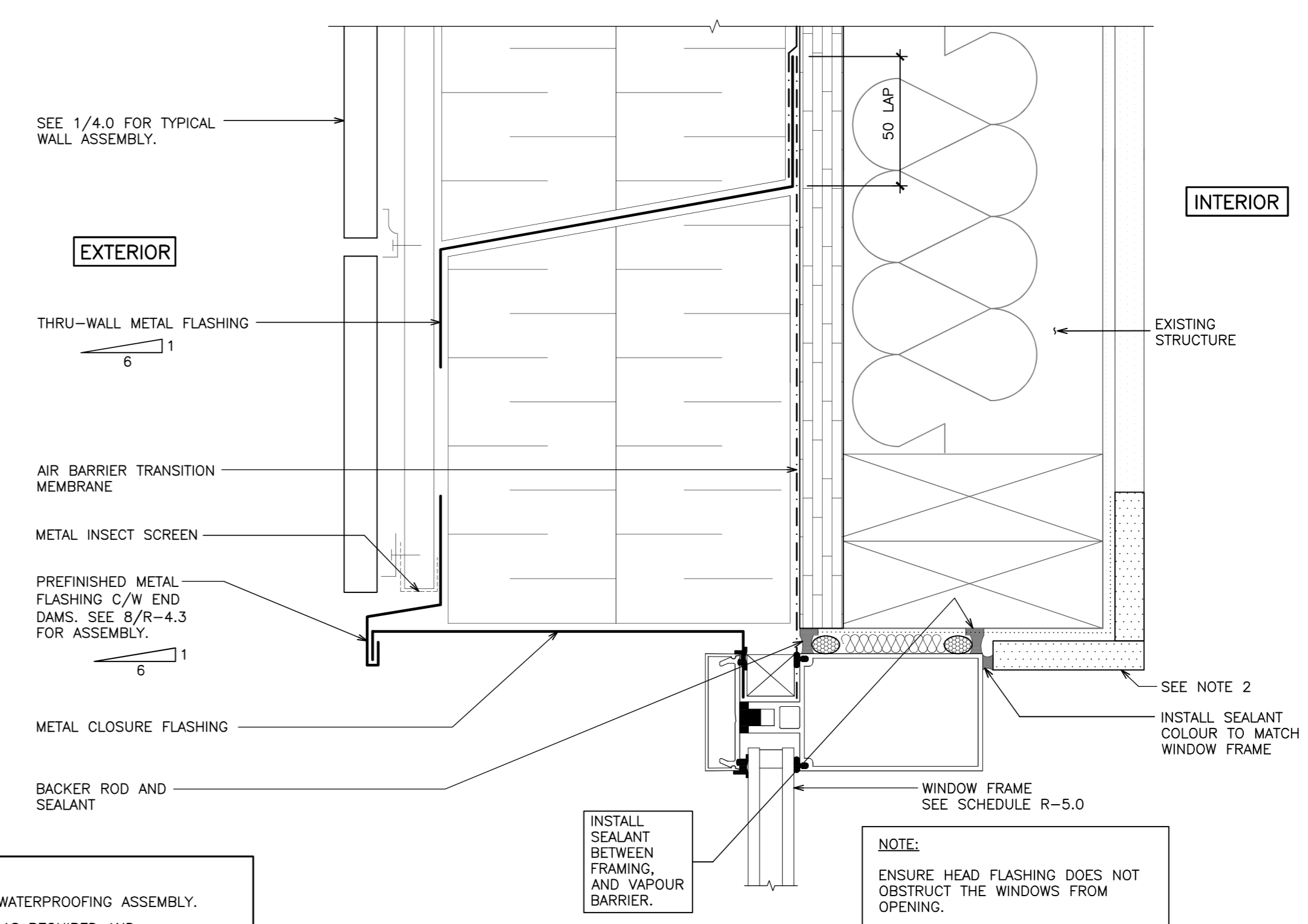
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Designed by/Concept par MDB
Drawn by/Dessiné par BPT
PWSC Project Manager/Administrateur de Projets TPSC JULIAN HO
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architectural et de génie, TPSC PREETIPAL PAUL
Drawing title/Titre du dessin

SKYLIGHT AND ROOF DETAILS
Project No./No. du projet: R.105676.001
Sheet/Feuille: R-4.4
Revision no./Lo Révision no.: 4
10 OF 14

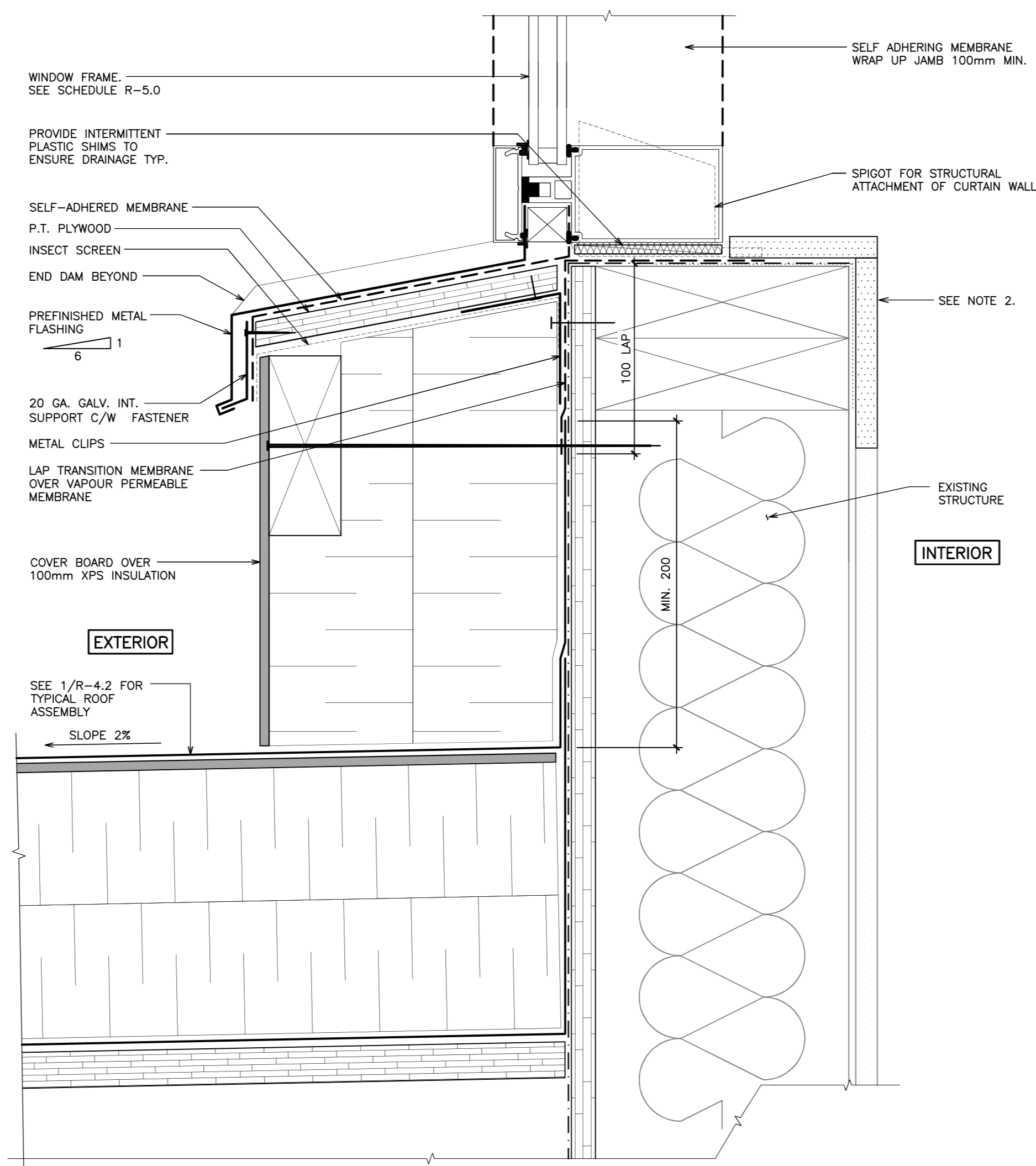


2
4.5
1:2
TYPICAL WINDOW SILL TO PANEL CLADDING

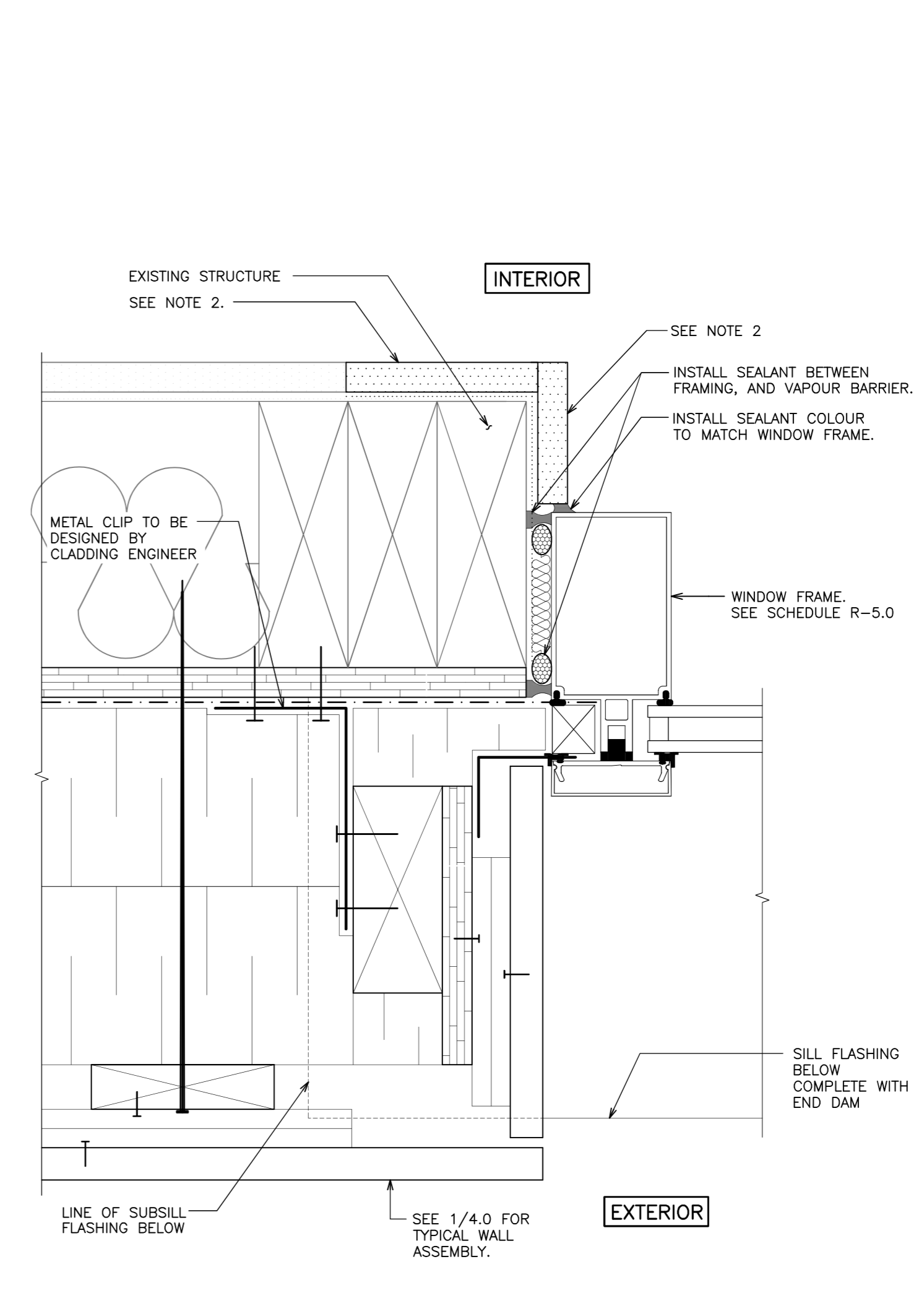
- TYPICAL NOTES:**
- SEE 6/R-4.6 FOR TYPICAL WINDOW WATERPROOFING ASSEMBLY.
 - REMOVE EXISTING INTERIOR FINISHES AS REQUIRED AND RESTORE TO PRIMED CONDITION.
 - PROVIDE 10mm SPACE BETWEEN WINDOW OR DOOR FRAMES AND ROUGH OPENINGS.
 - CONTRACTOR TO VERIFY THE PRESENCE OF A VAPOUR BARRIER ON THE INTERIOR. IF INTERIOR VAPOUR BARRIER IS CONFIRMED, SWITCH FROM AIR VAPOUR BARRIER TO VAPOUR PERMEABLE BARRIER.



1
4.5
1:2
TYPICAL WINDOW HEAD TO PANEL CLADDING

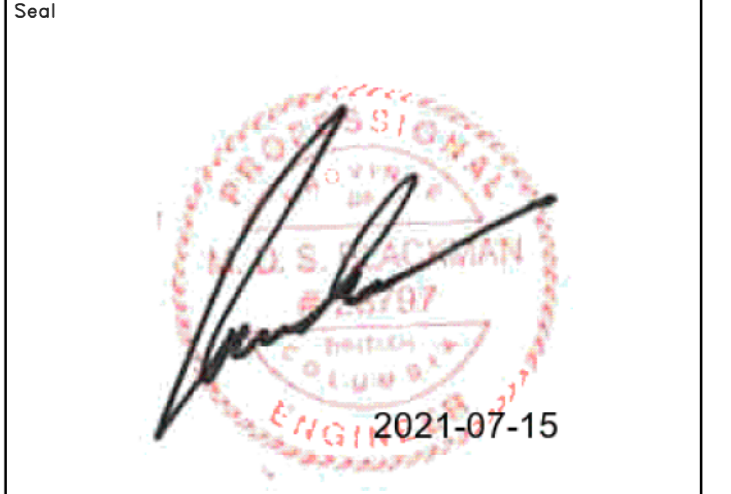
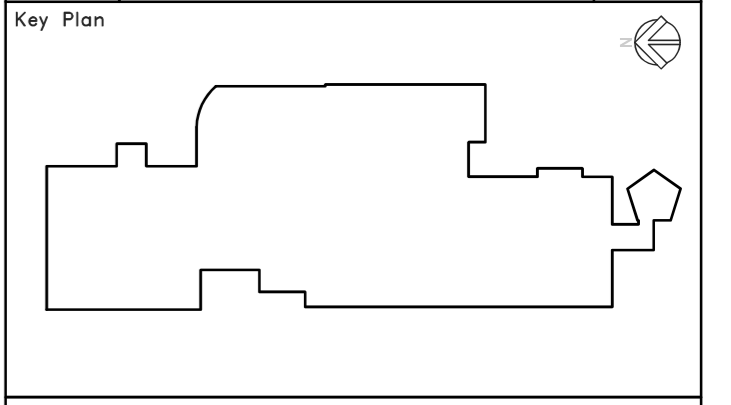


5
4.5
1:2
TYPICAL CLERESTORY WINDOW SILL



3
4.5
6"=1'-0"
TYPICAL WINDOW JAMB - PLAN

Revision/	Description/Description	Date/Date
4	ISSUED FOR TENDER	JULY 14/21
3	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21
2	ISSUED FOR 90% REVIEW	APR 9/20
1	ISSUED FOR 75% REVIEW	MAR 6/20



Sub-Consultant



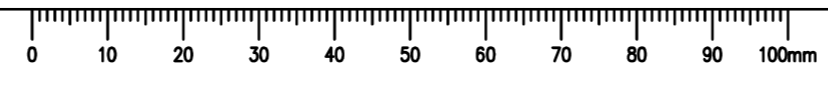
Client/client
TRANSPORT CANADA
800 BARRARD ST
VANCOUVER, B.C.

Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

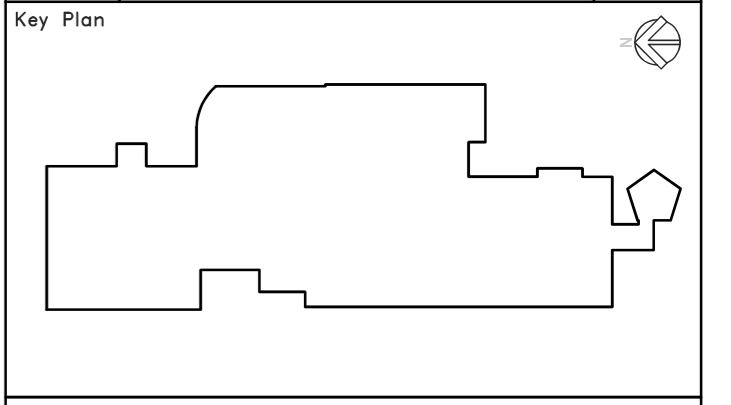
Consultant Signature Only
Designed by/Concept par
MDB
Drawn by/Dessine par
BPT
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL
Drawing title/Titre du dessin

WINDOW DETAILS

Project No./No. du projet R.105676.001	Sheet/Feuille R-4.5 11 OF 14	Revision no./Lo Révision no. 4
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4	ISSUED FOR TENDER	JULY 14/21
3	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21
2	ISSUED FOR 90% REVIEW	APR 9/20
1	ISSUED FOR 75% REVIEW	MAR 6/20
Revision/Édition	Description/Description	Date/Date



Seal

Sub-Consultant

Prime Consultant
rlc Engineers
RJC Project No. KEL.021700.0004

Client/client
TRANSPORT CANADA
800 BARRARD ST
VANCOUVER, B.C.

Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

Consultant Signature Only

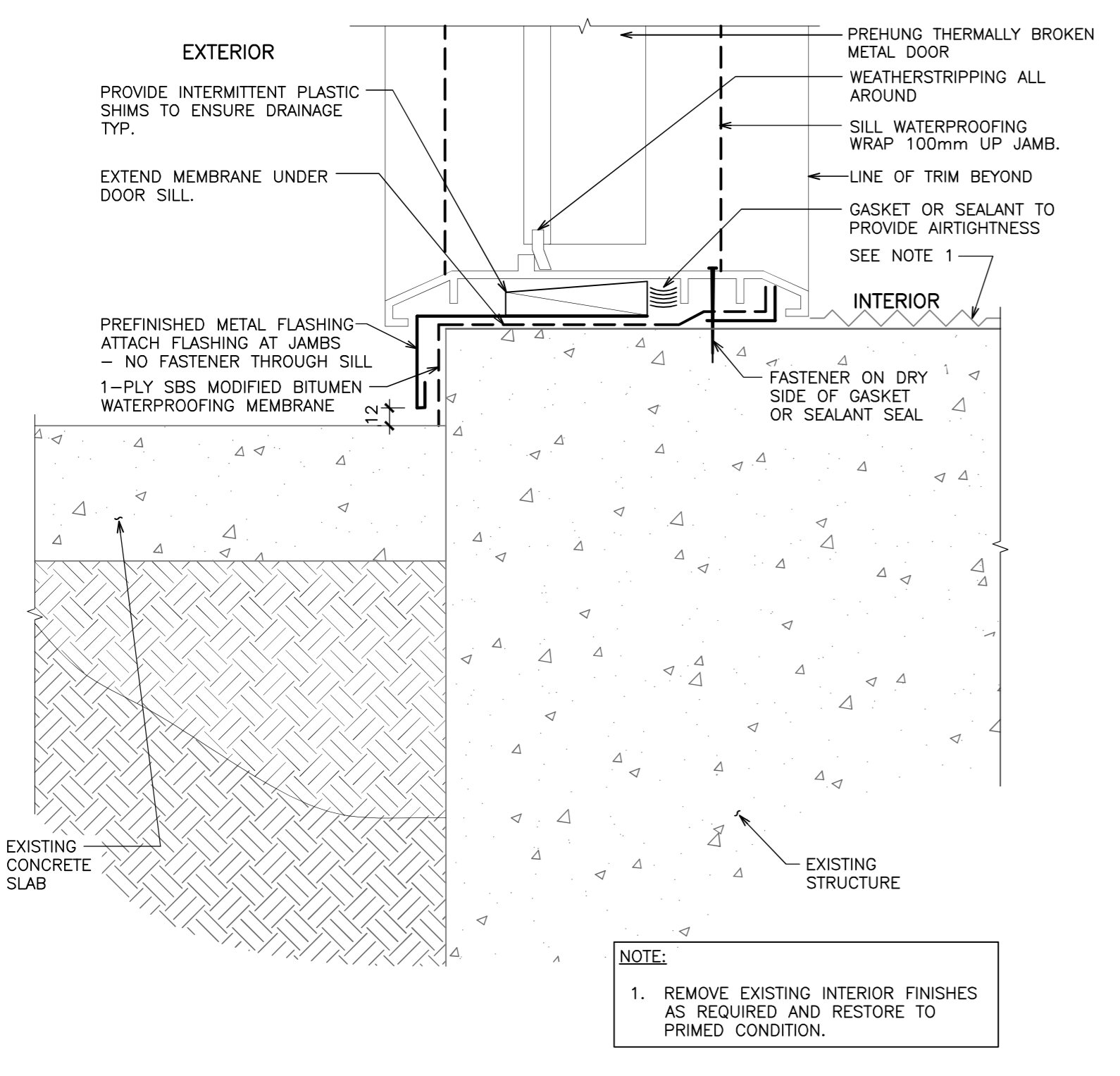
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MDB
Drawn by/Dessiné par
BPT
PWGSC Project Manager/Administrateur de Projets TPSSC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSSC
PREETIPAL PAUL

Drawing title/Titre du dessin
DOOR DETAILS

Project No./No. du projet
R.105676.001

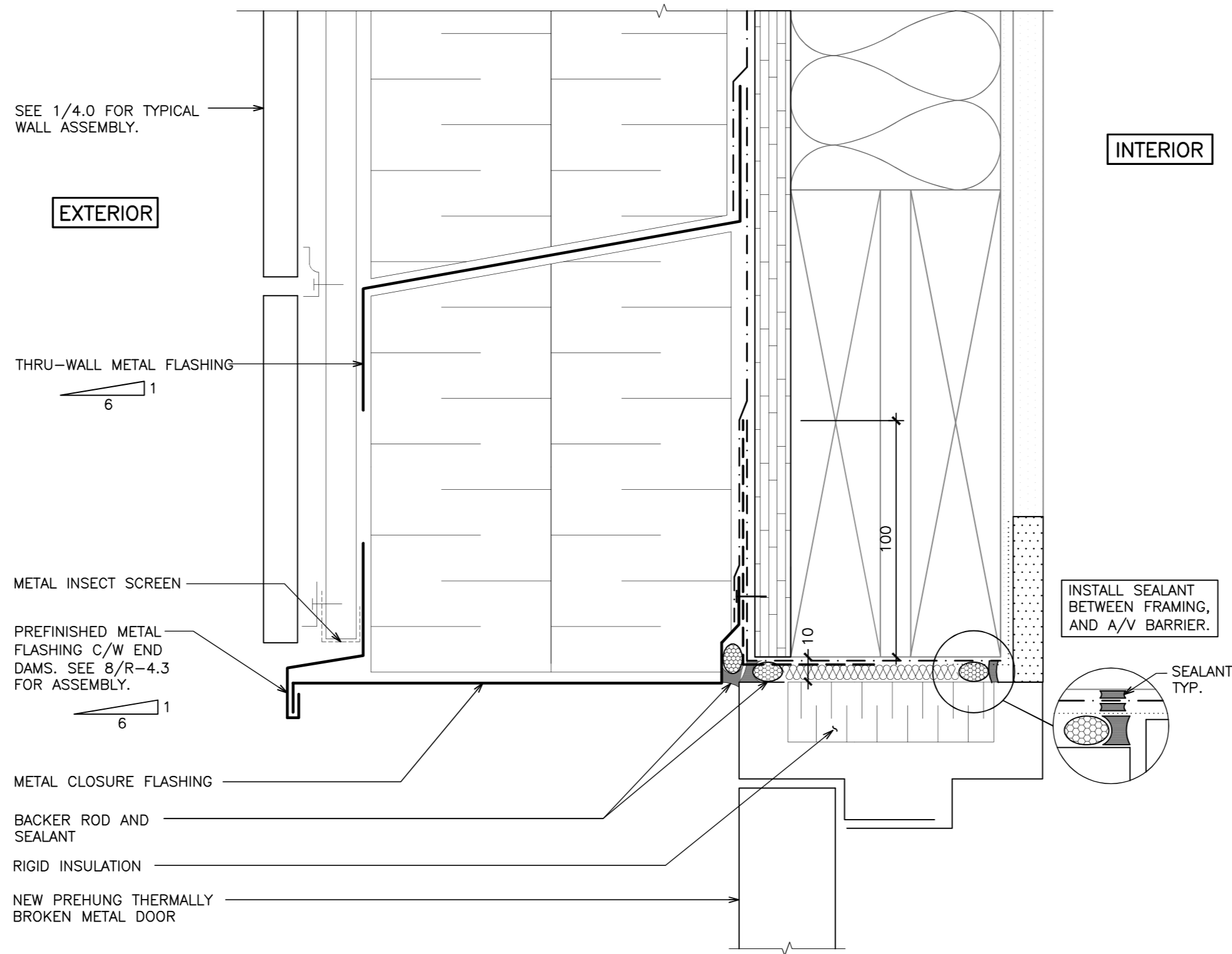
Sheet/Feuille
R-4.6
12 OF 14

Revision no./Lo Révision no.
4

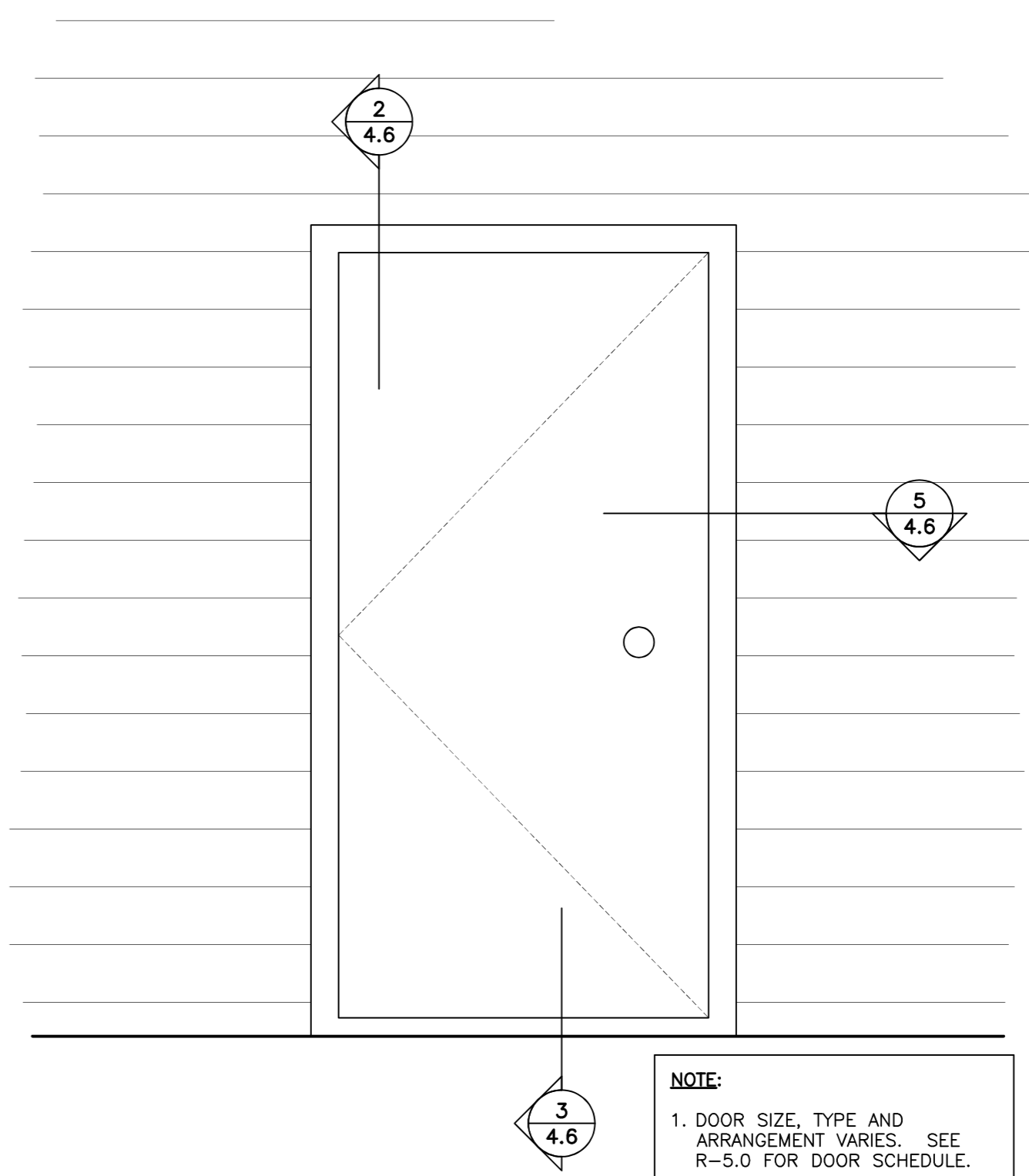


NOTE:
1. REMOVE EXISTING INTERIOR FINISHES AS REQUIRED AND RESTORE TO PRIMED CONDITION.

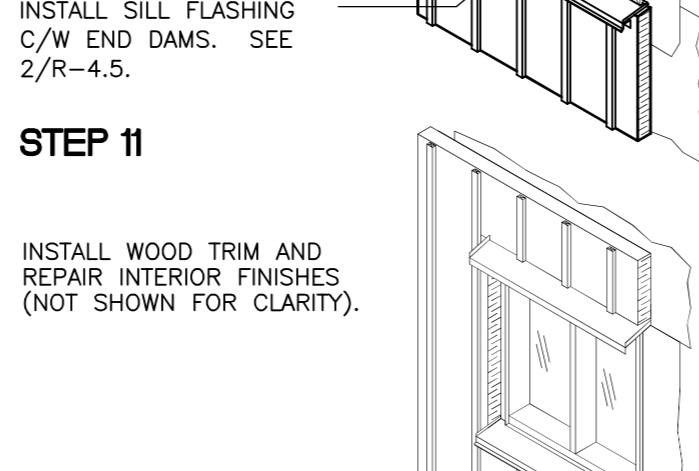
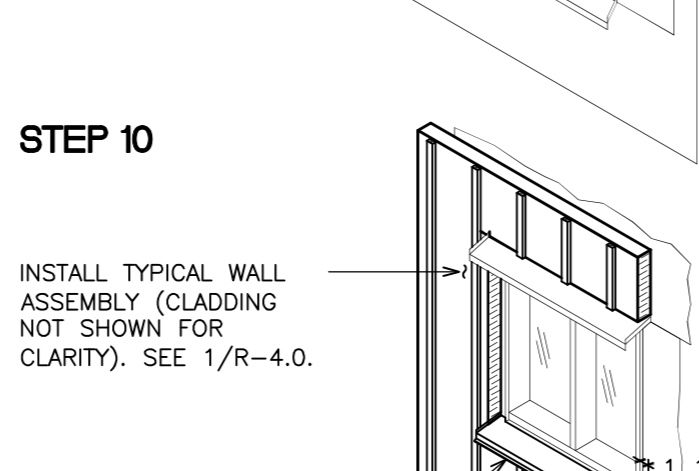
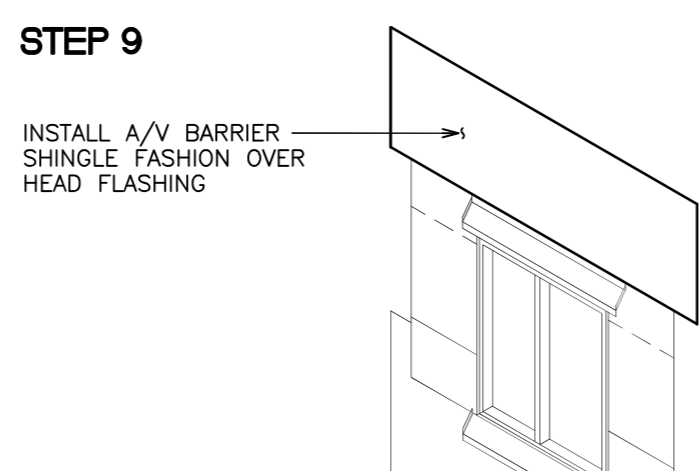
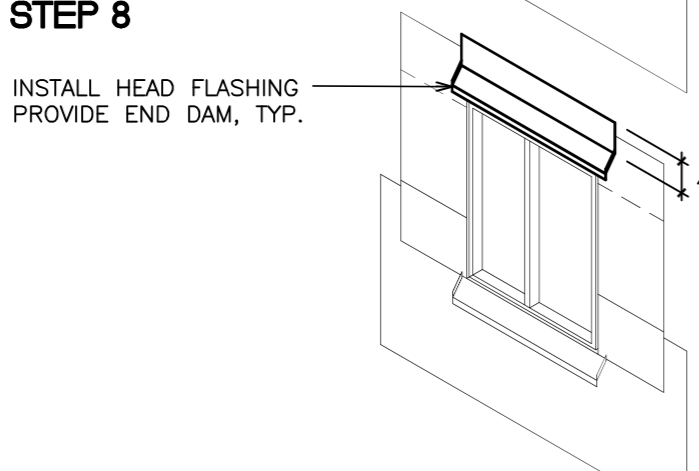
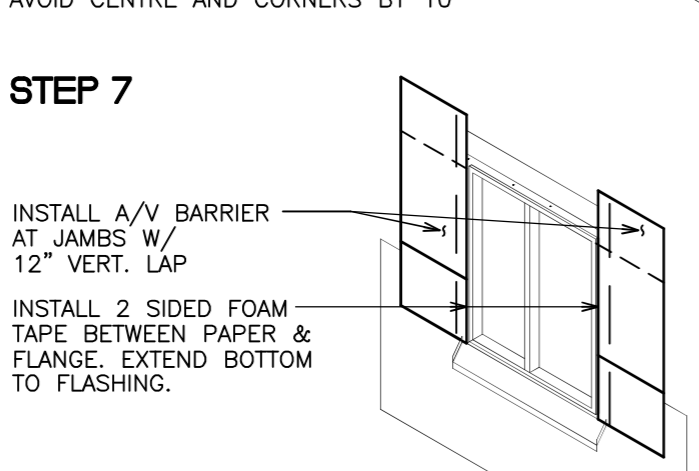
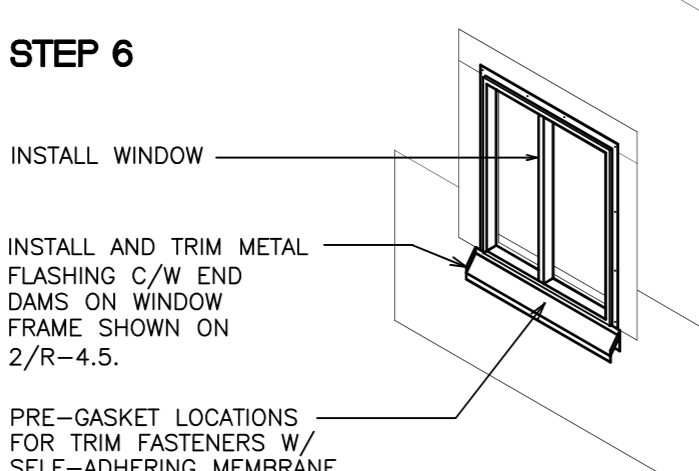
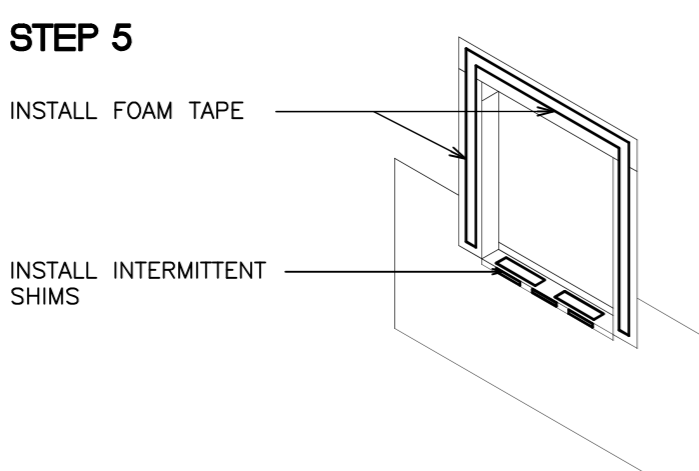
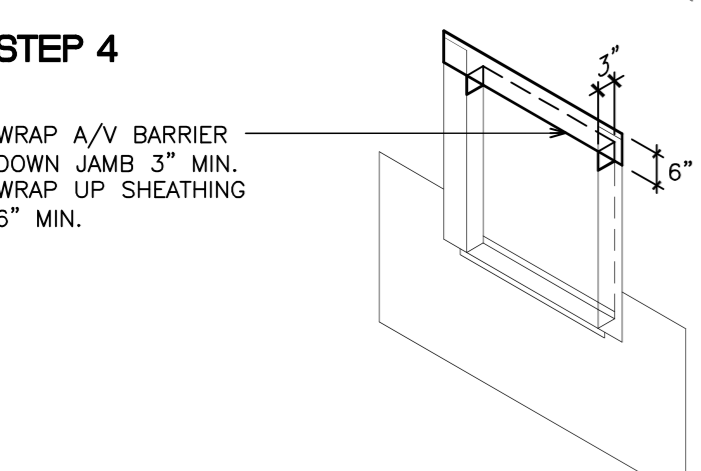
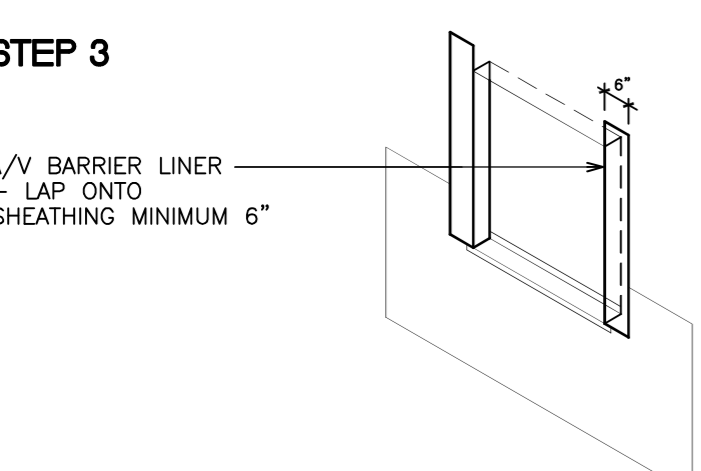
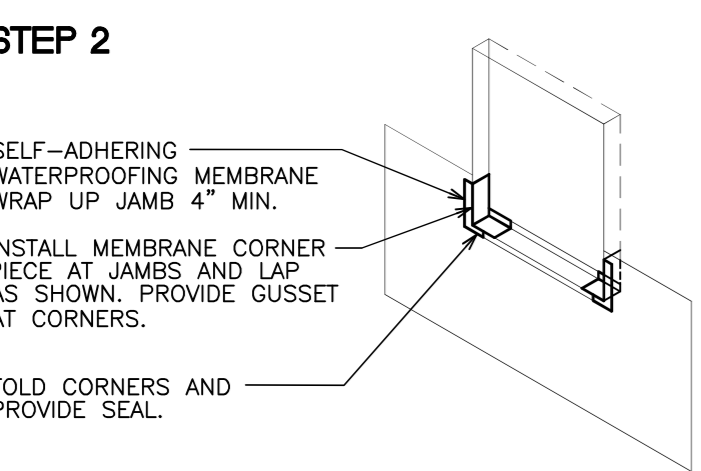
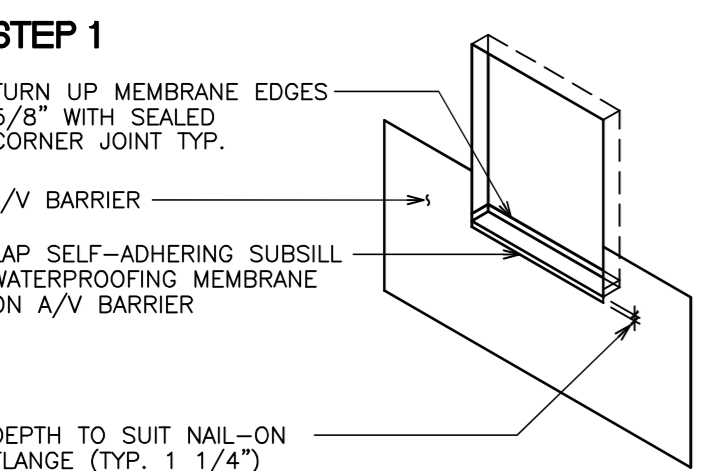
3
4.6
1:4
METAL SWING DOOR SILL AT CONCRETE SLAB



2
4.6
1:2
METAL SWING DOOR HEAD

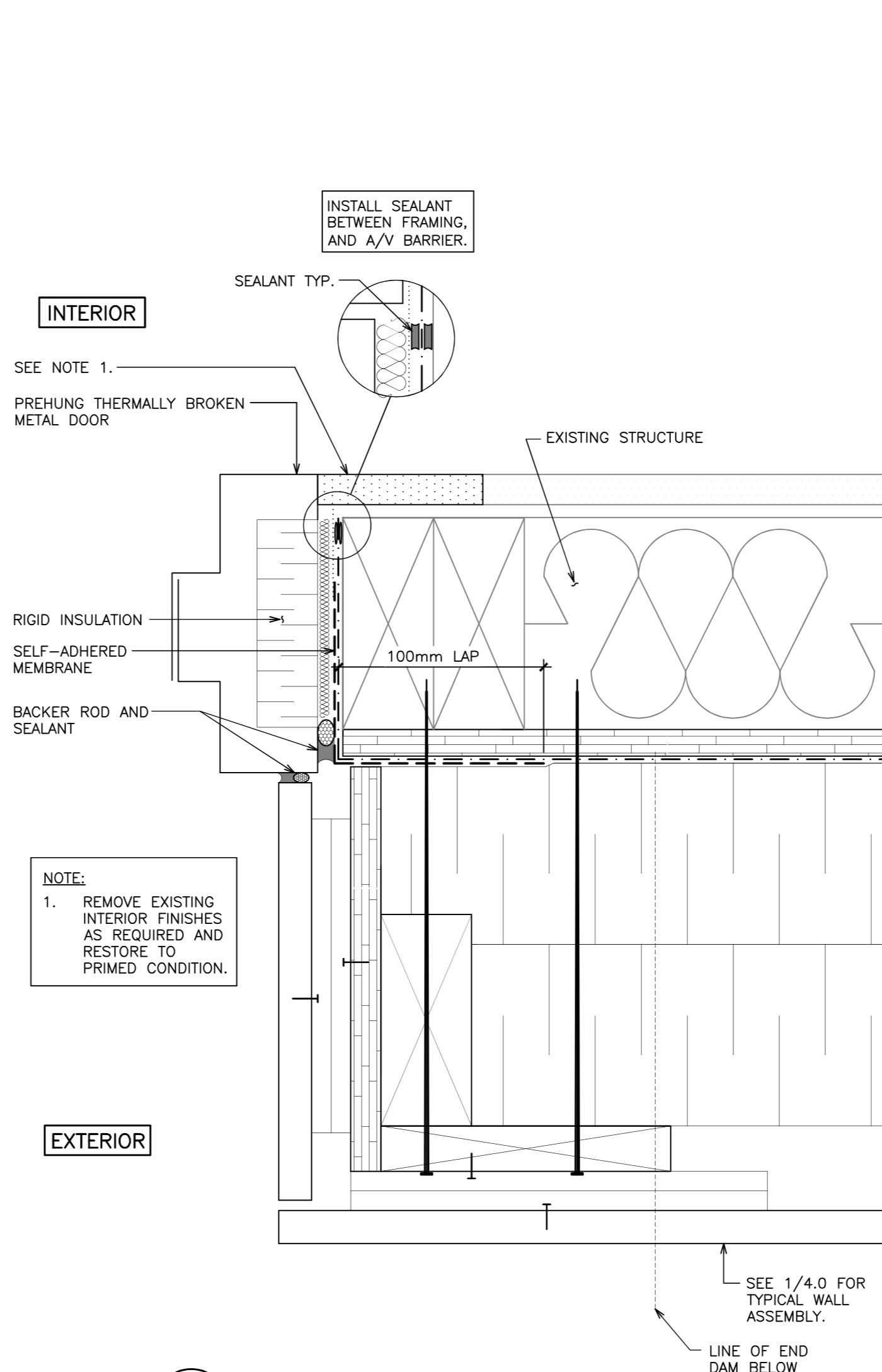


1
4.6
N.T.S.
TYPICAL METAL SWING DOOR ELEVATION

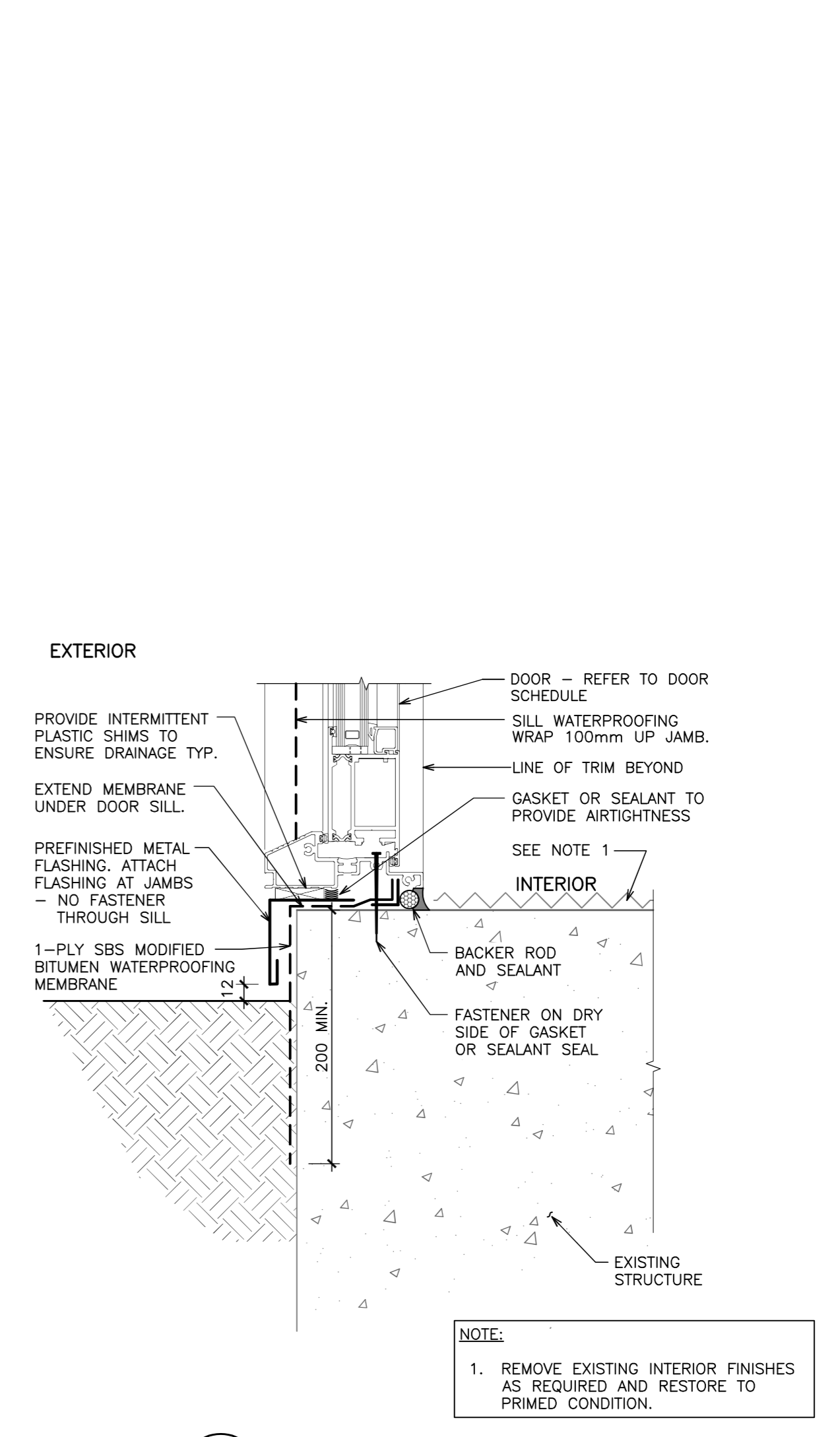


NOTE:

- SEE 8/R-4.3 FOR TYPICAL METAL FLASHING END DAM ASSEMBLY.
- SEE TYPICAL HEAD, JAMB AND SILL DETAILS FOR TRIM PAPER AND VAPOUR BARRIER APPLICATION.
- ENSURE THAT ALL EDGES AND CORNERS ARE WATERTIGHT WITH THE EXCEPTION OF SILL DRAINAGE.

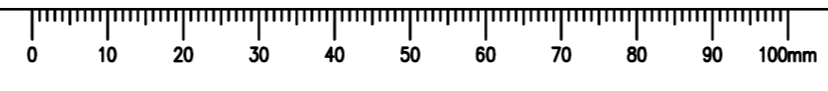


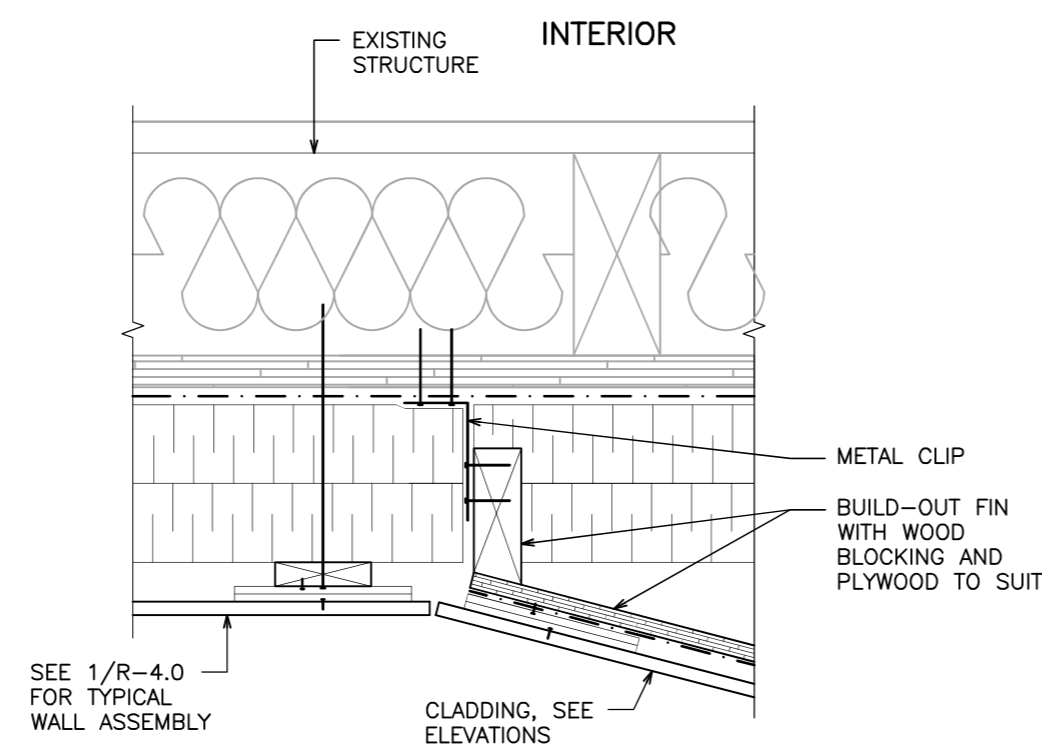
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4.6
1:2
METAL SWING DOOR JAMB



4
4.6
1:4
CURTAIN WALL SWING DOOR SILL

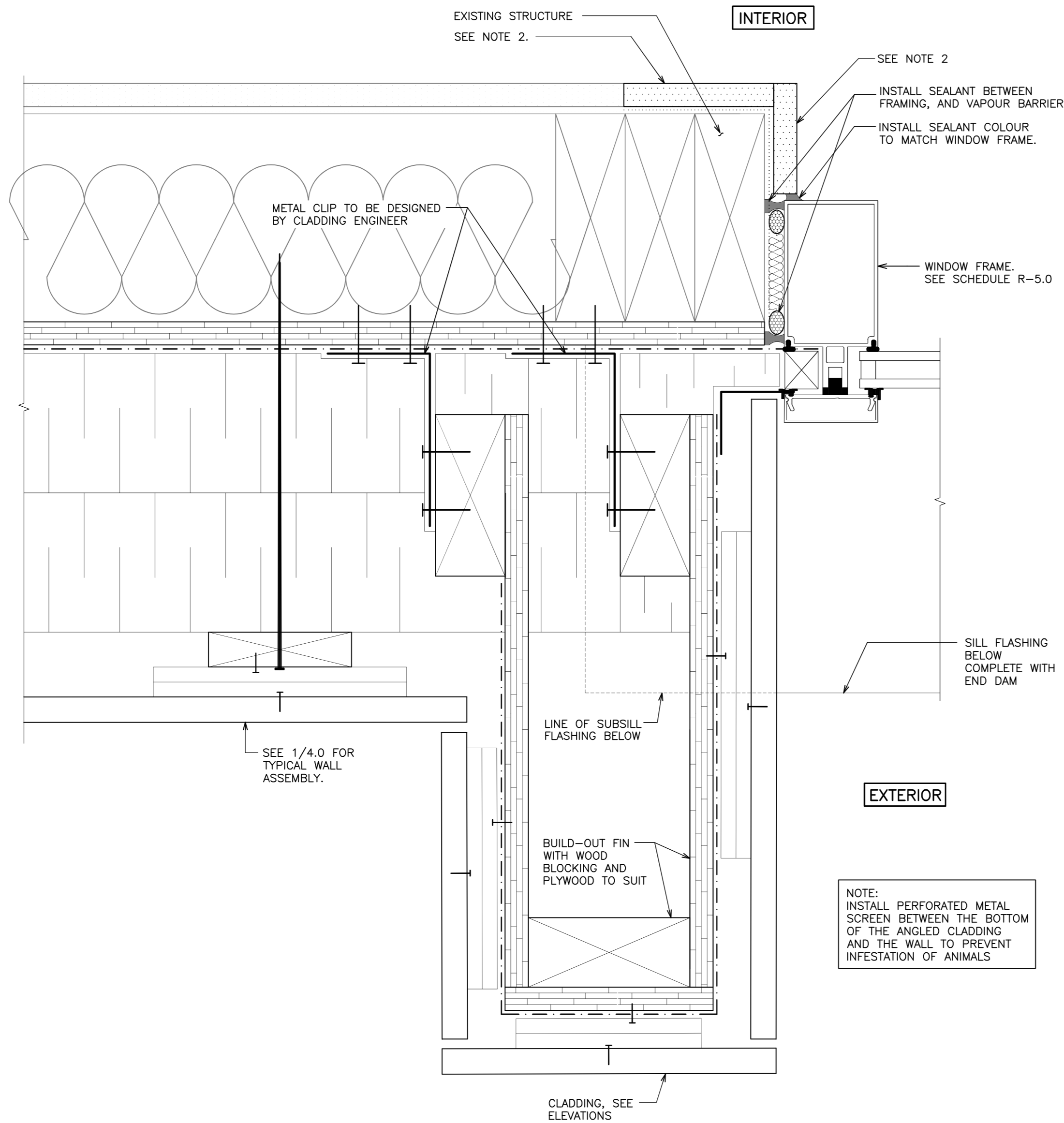
6
4.6
N.T.S.
TYPICAL WINDOW AND DOOR WATERPROOFING ASSEMBLY



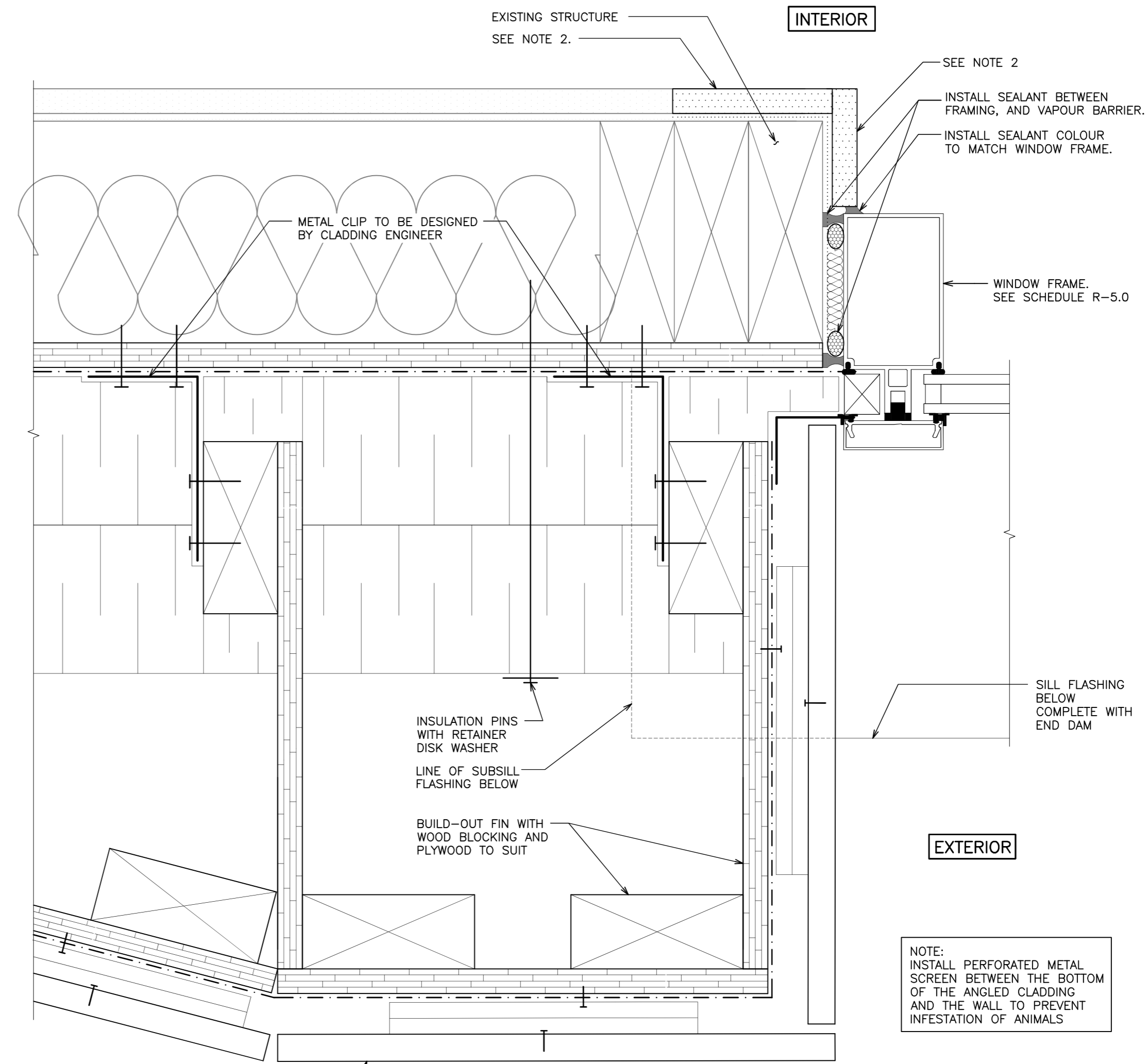


- NOTES:
1. INSTALL BUG SCREEN BETWEEN THE BOTTOM OF THE ANGLED CLADDING AND THE WALL TO PREVENT INFESTATION OF ANIMALS.
 2. CONTRACTOR TO INSTALL STRAPPING AS NECESSARY TO ALLOW FOR CLIP CONNECTION AT TRANSITION FROM ANGLED TO TYPICAL WALL CLADDING.

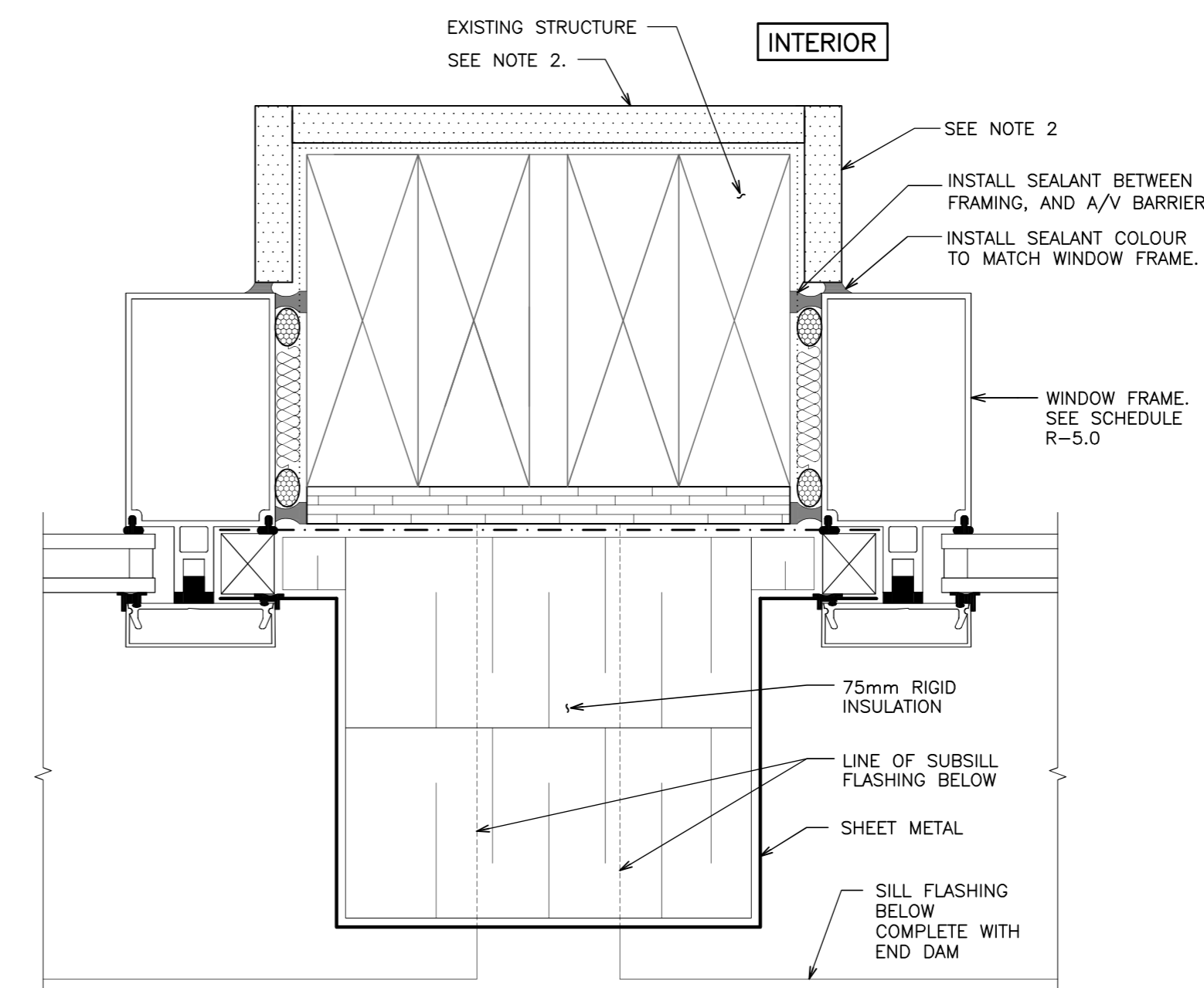
2
4.7 N.T.S.
ANGLED FIN WALL CLADDING TO TYPICAL CLADDING



4
4.7 6'-1'-0"
TYP. LONG ARCHITECTURAL FIN CLADDING - PLAN

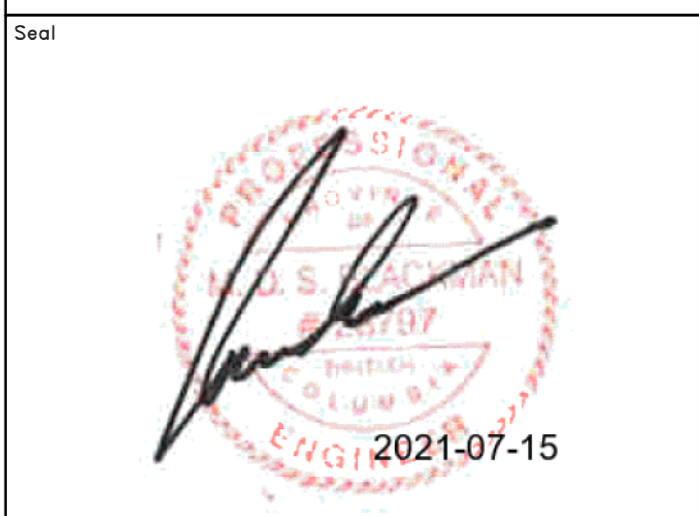
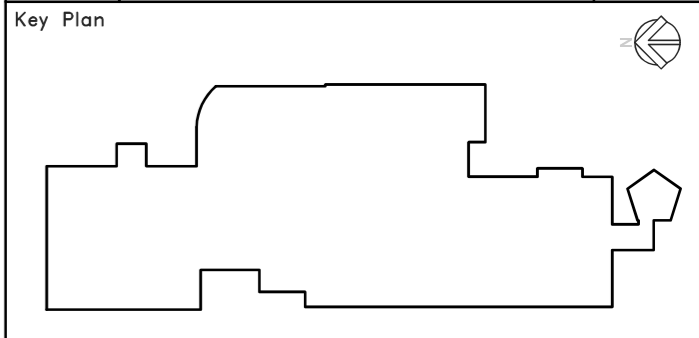


1
4.7 6'-1'-0"
TYPICAL WINDOW JAMB TO PANEL CLADDING - PLAN



3
4.7 6'-1'-0"
TYP. SMALL ARCHITECTURAL FIN CLADDING - PLAN

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	JULY 14/21
1	ISSUED FOR PRE-TENDER REVIEW	MAR 11/21



Sub-Consultant
Prime Consultant
rjc Engineers
RJC Project No. KEL.021700.0004

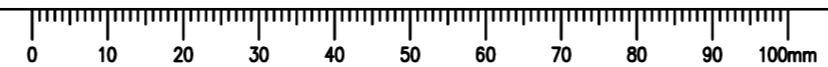
Client/client
TRANSPORT CANADA
800 BARRARD ST VANCOUVER, B.C.

Project title/Titre du projet
3000 AIRPORT ROAD PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB ROOF SEISMIC UPGRADE ROOFING & BUILDING ENVELOPE PROJECT

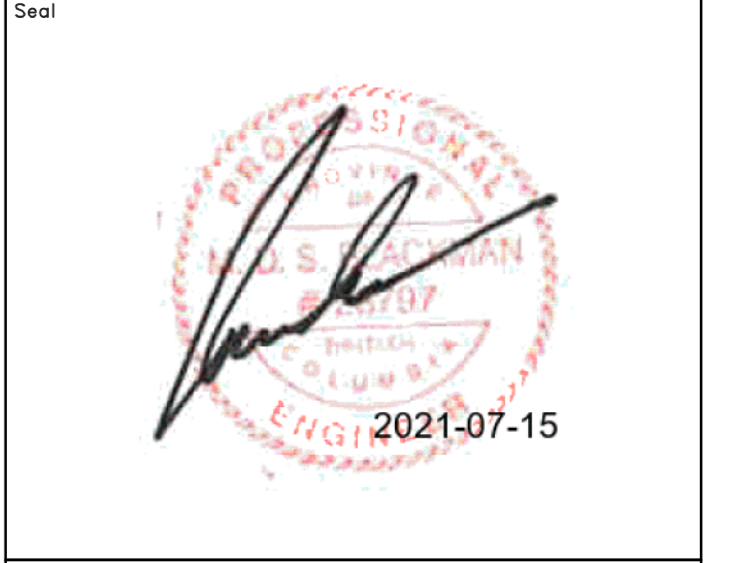
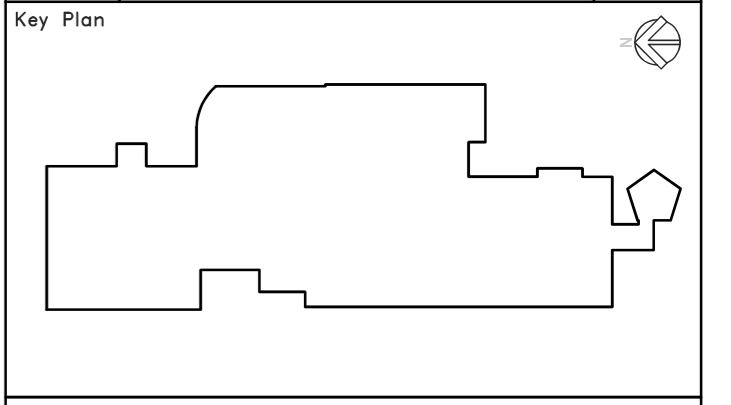
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Designed by/Concept par MDB
Drawn by/Dessine par BPT
PWSC Project Manager/Administrateur de Projets TPSC JULIAN HO
Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architectural et de génie, TPSC PREETIPAL PAUL
Drawing title/Titre du dessin

WINDOW FIN DETAILS

Project No./No. du projet	Sheet/Feuille	Revision no./Lo Révision no.
R.105676.001	R-4.7 13 OF 14	2



Revision/Revision	Description/Description	Date/Date
3	ISSUED FOR TENDER	JULY 14/21
2	ISSUED FOR PRE-TENDER REVIEW	MAR. 11/21
1	ISSUED FOR 90% REVIEW	APR. 9/20



Sub-Consultant

Prime Consultant
rjc Engineers
RJC Project No. KEL.021700.0004

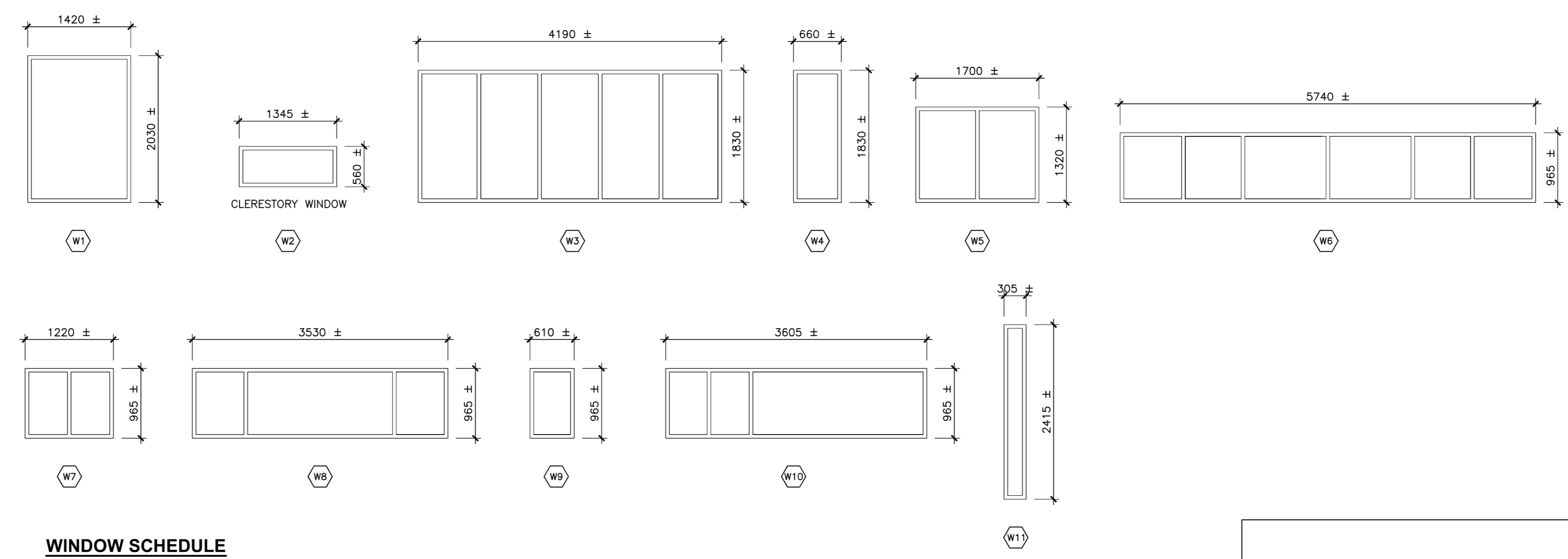
Client/client
TRANSPORT CANADA
800 BARRARD ST
VANCOUVER, B.C.

Project title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

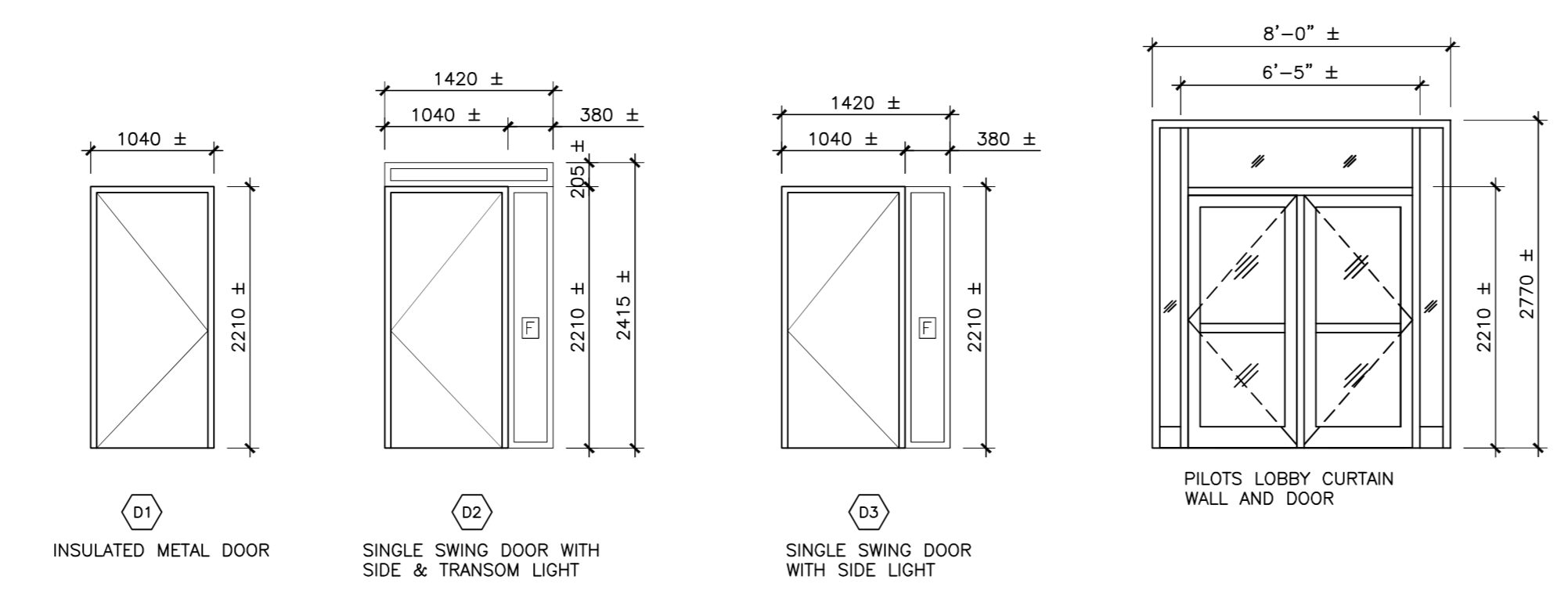
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Drawn by/Dessine par BPT
PWSC Project Manager/Administrateur de Projets TPSC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSC
PREETIPAL PAUL

Drawing title/Titre du dessin
GLAZING SCHEDULE

Project No./No. du projet: R.105676.001
Sheet/Feuille: R-5.0
Revision no./Lo Révision no.: 3



WINDOW SCHEDULE
SCALE: 1:50



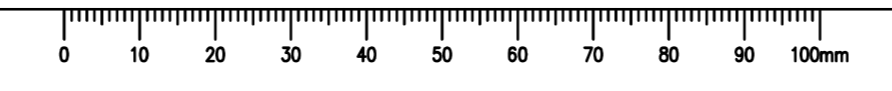
DOOR SCHEDULE
SCALE: 1:50

LEGEND

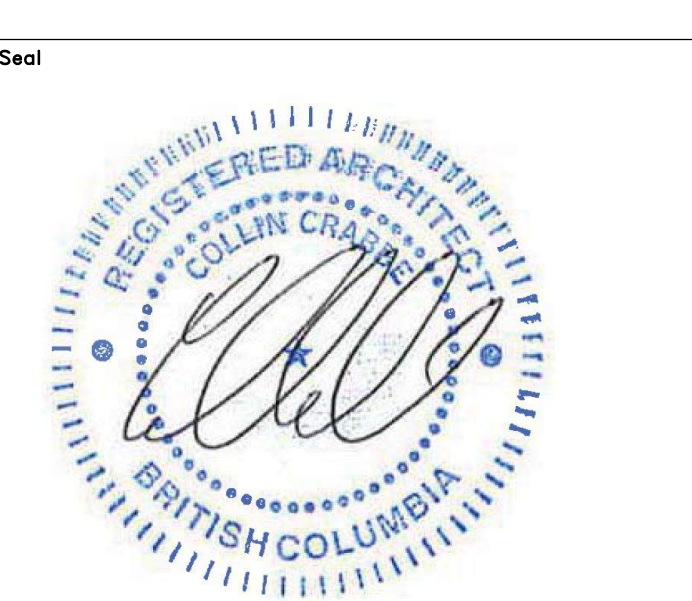
- W# - WINDOW NUMBER
- D# - DOOR NUMBER
- - FIXED GLAZING PANEL
- - DIRECTION OF SLIDER

NOTES:

- CONTRACTOR TO VERIFY DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO ORDERING WINDOWS AND DOORS.
- DIMENSIONS DENOTE ROUGH OPENINGS
- SCHEDULES SHOW VIEW OF WINDOWS AND DOORS FROM THE EXTERIOR OF THE BUILDING.
- DIRECTION OF SWING/HINGE OR SLIDER OF DOORS MAY VARY FROM SCHEDULE.



ISSUED FOR TENDER	APR 15, 2021
Revision/Revision	Description/Description
Key Plan	



Sub-Consultant
m+m a
MEIKLEJOHN ARCHITECTS

Prime Consultant
rjc
Engineers
RJC Project No. KEL.021700.0004

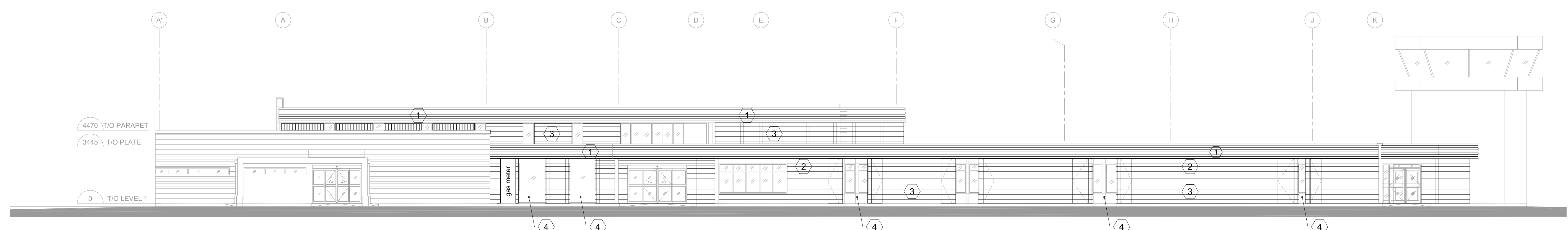
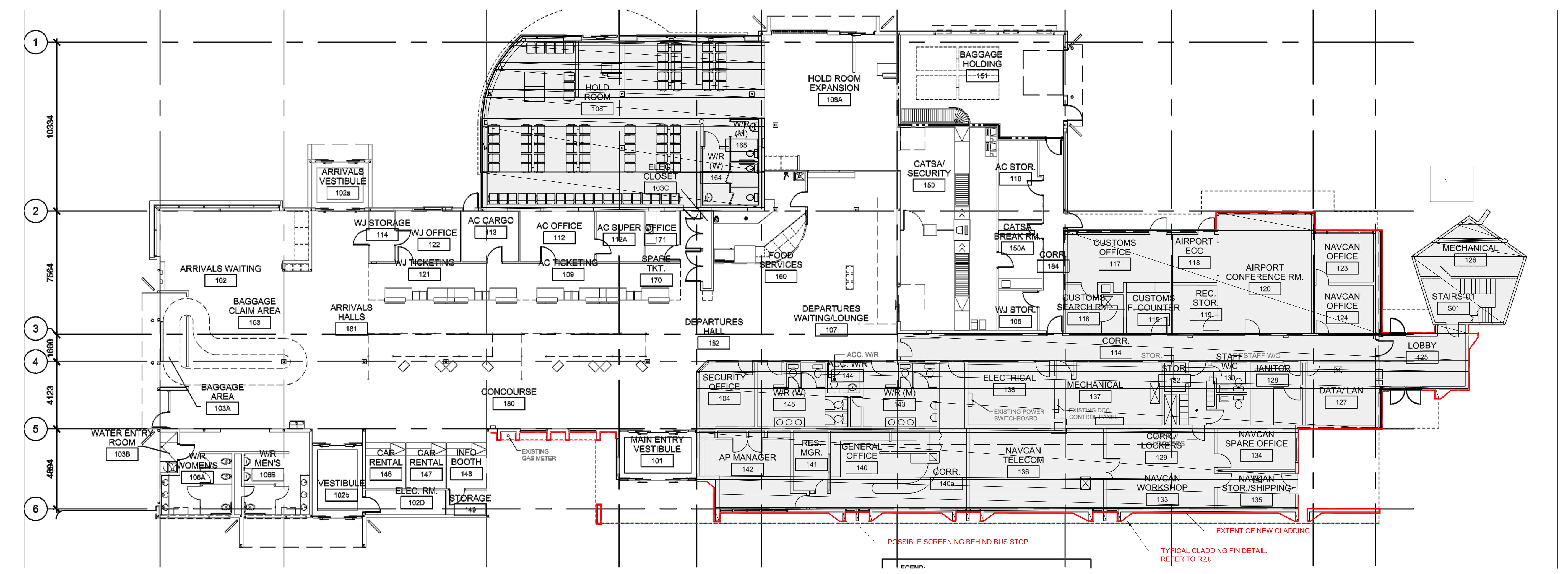
Client/client
TRANSPORT CANADA
800 BURRARD ST
VANCOUVER, B.C.

Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

Consultant Signature Only
Designed by/Concept par CC
Drawn by/Dessiné par CC
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services,
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL
Drawing title/Titre du dessin

PROPOSED ELEVATIONS

Project No./No. du projet: R.105676.001
Sheet/Feuille: **A1**
Revision no./Loi Révision: no.

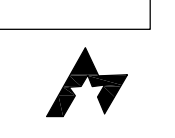
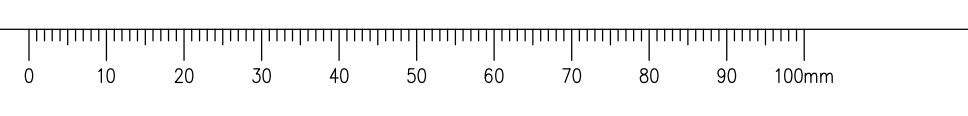


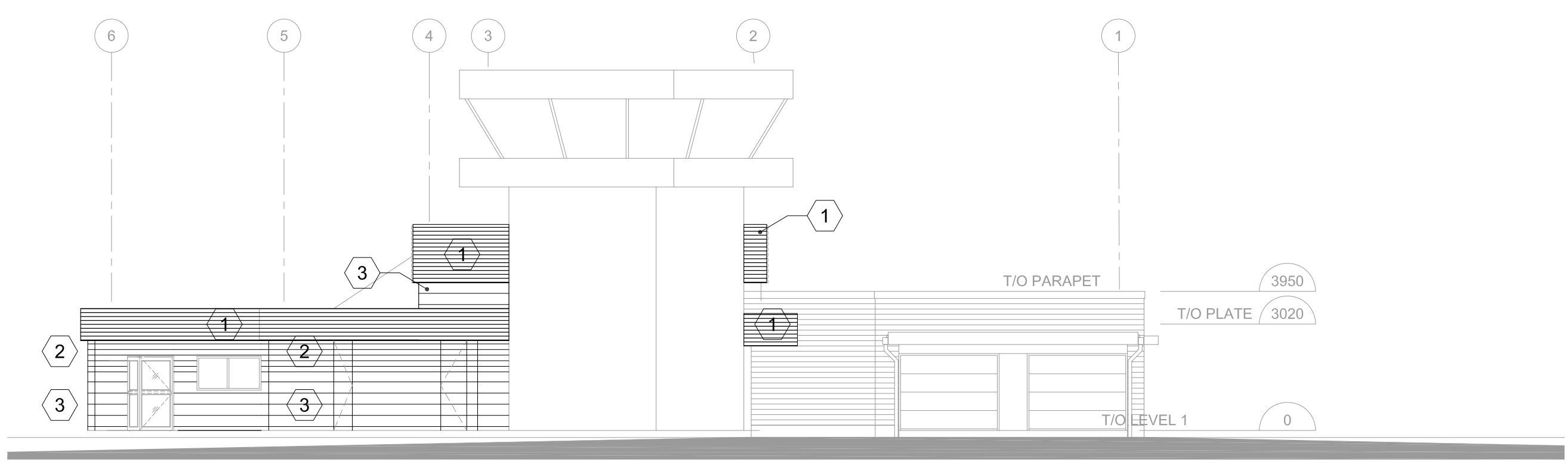
WEST ELEVATION

- MATERIALS LEGEND**
- 1 HORIZONTAL PREFINISHED STEEL CLADDING
 - 2 6" HIGH FIBRE CEMENT CLADDING (SIZE TO MATCH EXISTING)
 - 3 12" HIGH FIBRE CEMENT CLADDING
 - 4 SOLID DARKER FIBRE CEMENT CLADDING PANEL ABOVE AND BELOW GLAZING



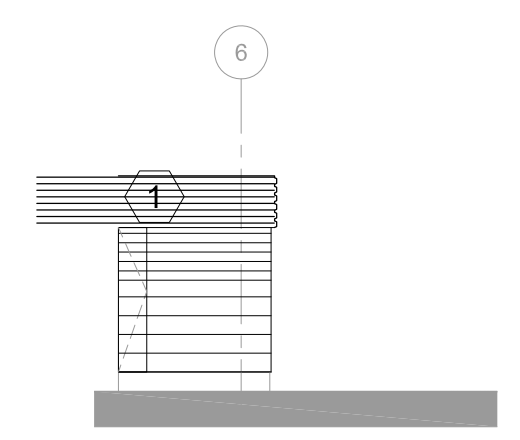
EAST ELEVATION





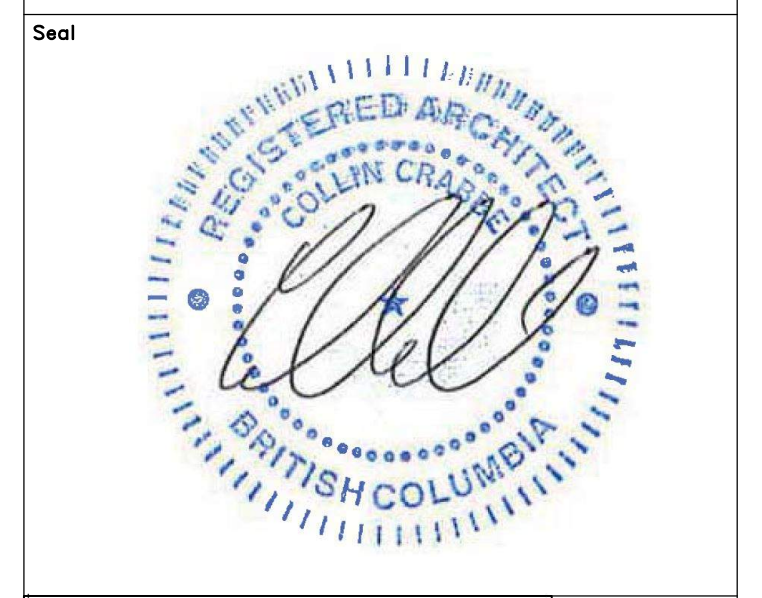
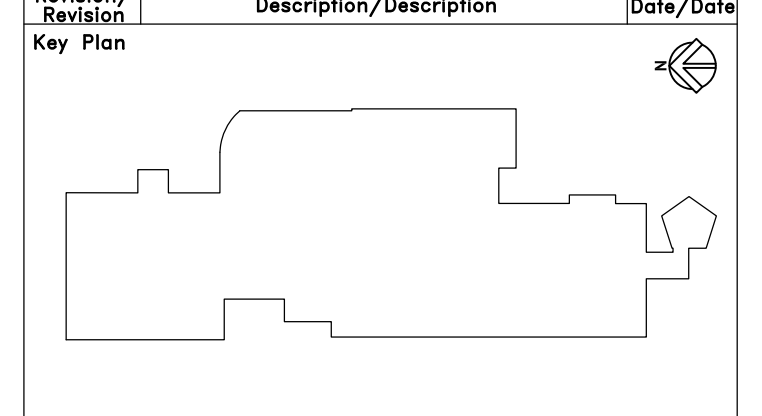
SOUTH ELEVATION

- MATERIALS LEGEND**
- 1 HORIZONTAL PREFINISHED STEEL CLADDING
 - 2 6" HIGH FIBRE CEMENT CLADDING (SIZE TO MATCH EXISTING)
 - 3 12" HIGH FIBRE CEMENT CLADDING
 - 4 SOLID DARKER FIBRE CEMENT CLADDING PANEL TO WINDOW BAYS



NORTH ELEVATION
 @MAIN ENTRY VESTIBULE

Revision/Revision	Description/Description	Date/Date
ISSUED FOR TENDER		APR 15, 2021



Sub-Consultant

Prime Consultant

RJC Project No. KEL.021700.0004

Client/client

TRANSPORT CANADA

800 BARRARD ST
 VANCOUVER, B.C.

Project title/Titre du projet

**3000 AIRPORT ROAD
 PENTICTON, BC
 PENTICTON REGIONAL AIRPORT
 PENTICTON ATB
 ROOF SEISMIC UPGRADE
 ROOFING & BUILDING
 ENVELOPE PROJECT**

Consultant Signature Only

Designed by/Concept par
 CC

Drawn by/Dessine par
 CC

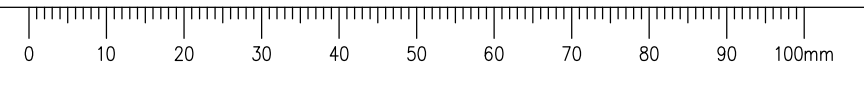
PWSSC Project Manager/Administrateur de Projets TPSGC
 JULIAN HO

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

Drawing Title/Titre du dessin

**PROPOSED
 ELEVATIONS**

Project No./No. du projet R.105676.001	Sheet/Feuille A2	Revision no./La Révision no.
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GENERAL NOTES

- AT ALL TIMES DURING CONSTRUCTION ENSURE THAT THE EXISTING BUILDING REMAINS OPERATIONAL AND CRITICAL SYSTEMS REMAIN FULLY FUNCTIONAL. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.
- THIS SET OF DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS FROM ALL OTHER CONSULTANTS. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY FOR CLARIFICATION.
- THIS SET OF DRAWINGS SHOWS THE COMPLETED STRUCTURE, AND DOES NOT SHOW TEMPORARY WORK OR WORK WHICH MAY BE REQUIRED FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR GENERAL SAFETY ON AND ABOUT THE JOB SITE DURING THE CONSTRUCTION PERIOD, AND FOR DESIGN AND ERECTION OF ALL FALSEWORK, SHORING, BRACING, AND OTHER TEMPORARY MEASURES. ADHERE STRICTLY TO ALL REQUIREMENTS OF THE WORKERS' COMPENSATION BOARD OF B.C..

FIELD REVIEW:

- DEPARTMENTAL REPRESENTATIVE THROUGH CWMM CONSULTING ENGINEERS PROVIDES FIELD REVIEW FOR THE WORK.
- ALL NON CONFORMING WORKS THAT REQUIRE REMEDIAL ACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY EXTRA TIME OR COST INCURRED TO PWGSC IN RECTIFYING THE WORK SHALL BE BORNE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT.
- ENSURE THAT WORK TO BE INSPECTED IS COMPLETE AT THE TIME OF INSPECTION AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADDITIONAL INSPECTIONS REQUIRED DUE TO INCOMPLETE WORK OF POORLY EXECUTED WORKS, AS JUDGED BY THE DEPARTMENTAL REPRESENTATIVE, AS WELL AS ADDITIONAL DESIGN OR REMEDIAL WORK CAUSED BY DEVIATIONS FROM THESE DRAWINGS, MAY BE CHARGED TO THE CONTRACTOR.
- A MINIMUM 48 HOURS NOTICE SHALL BE GIVEN TO THE DEPARTMENTAL REPRESENTATIVE BY THE CONTRACTOR FOR ANY INSPECTION TO BE CARRIED OUT.

NON-STRUCTURAL COMPONENTS:

- NON-STRUCTURAL COMPONENTS ARE NOT THE RESPONSIBILITY OF DEPARTMENTAL REPRESENTATIVE SUCH COMPONENTS OF THE PROJECT ARE DESIGNED, DETAILED, SPECIFIED AND REVIEWED IN THE FIELD BY OTHERS. LETTERS OF CERTIFICATION OF ADEQUACY, INSTALLATION ETC. OF SUCH COMPONENTS ARE BY OTHERS.
- MANUFACTURERS OF NON-STRUCTURAL COMPONENTS WHICH AFFECT THE STRUCTURAL FRAMING SHALL SUBMIT SHOP DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE SHOP DRAWINGS SHALL CLEARLY INDICATE LOADS IMPOSED ON THE STRUCTURE. REVIEW WILL BE LIMITED TO THE EFFECT OF THE COMPONENTS ON THE STRUCTURAL FRAMING.
- EXAMPLES OF NON-STRUCTURAL COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO - ARCHITECTURAL COMPONENTS SUCH AS CEILINGS, - INTERIOR AND EXTERIOR NON-LOAD BEARING STEEL STUD WALLS, - SUPPORT AND BRACING OF MECHANICAL AND ELECTRICAL SYSTEMS AND EQUIPMENTS FOR NON-GRAVITY AND SEISMIC LOADS.

EXISTING STRUCTURES:

- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS TO AND OF EXISTING STRUCTURES. NOTIFY DEPARTMENTAL REPRESENTATIVE IMMEDIATELY IF DISCREPANCIES ARE NOTED.
- THE CONTRACTOR SHALL AT HIS OWN EXPENSE REPAIR AND MAKE GOOD ANY DAMAGE TO THE EXISTING STRUCTURE, EQUIPMENT AND FINISHES CAUSED BY THE CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY SUPPORT OF ANY ADJACENT EXISTING STRUCTURES DURING CONSTRUCTION. BRACING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. 4 COPIES OF SIGNED AND SEALED DESIGN DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW OF CONFORMANCE WITH GENERAL DESIGN CRITERIA.

CONSTRUCTION LOADS:

- CONSTRUCTION LOADS ON ROOF MUST NOT EXCEED THE LOAD CARRYING CAPACITY OF ROOF AT THE TIME OF THE LOADING UNLESS IT IS PROPERLY SHORED TO SUPPORT THE INTENDED LOAD. MOVING OF HEAVY EQUIPMENT AND PILING UP OF MATERIAL SHALL NOT BE PERMITTED UNLESS DESIGNED SHORING IS IN PLACE.
- SHORING DESIGN BY CONTRACTOR. INFORM CWMM CONSULTING ENGINEERS LTD. PRIOR TO LOAD APPLICATION.

DESIGN LOADS:

- ALL CODE REFERENCES ARE TO LATEST EDITIONS AS REFERENCED IN THE NATIONAL BUILDING CODE 2015 & BC BUILDING CODE 2018. UPGRADE OF THE EXISTING STRUCTURE IS TO 80% OF NBCC 2015, NEW STRUCTURE TO COMPLY WITH 100% NBCC 2015.

GROUND SNOW:	Ss = 1.3 kPa	
RAIN LOAD:	Sr = 0.1 kPa	
ROOF SNOW:	TO DESIGN CODE	
SNOW BUILD-UP:	TO DESIGN CODE	
IMPORTANCE FACTORS FOR SNOW	Is = 1.0 FOR STRENGTH	
	Is = 0.9 FOR SERVICEABILITY	
WIND LOAD:	PROBABILITY 1/50 =	0.45 kPa
IMPORTANCE FACTORS FOR WIND	Iw = 1.00 FOR STRENGTH	
	Iw = 0.75 FOR SERVICEABILITY	
EARTHQUAKE FACTORS:	Sa(0.2) = 0.160	Sa(0.5) = 0.139
	Sa(1.0) = 0.103	Sa(2.0) = 0.071
	Sa(5.0) = 0.031	Sa(10.0) = 0.010
	PGA = 0.074	Ie = 1.0 ULS
	PGV = 0.131	

TIMBER SHEARWALL	Rd = 3	Ro = 1.7
------------------	--------	----------

SITE CLASS E

SPECIFIED UNIFORM SUPERIMPOSED (NOT INCLUDING STRUCTURAL SELF WEIGHT OF TRUSSES) DEAD LOADS ON ROOF:

ROOF	0.75 kPa
EXTERIOR WALLS	ACTUAL WEIGHT

- ENSURE THAT WORK TO BE INSPECTED IS COMPLETE AT THE TIME OF INSPECTION AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- DESIGN SPECIFIED CONCENTRATED LIVE LOADS ON ROOF = 1.3 kN
- WORST CASE OF UNIFORM OR CONCENTRATED LIVE LOADS WILL BE USED FOR DESIGN OF STRUCTURAL MEMBERS.

WOOD PRODUCTS

- ALL LUMBER MATERIAL TO CONFORM TO N.L.G.A. GRADING RULES, AND CSA-086.1. PLYWOOD SHALL CONFORM TO CSA O121.
- DIMENSION LUMBER SHALL BE AS SPECIFIED BELOW:

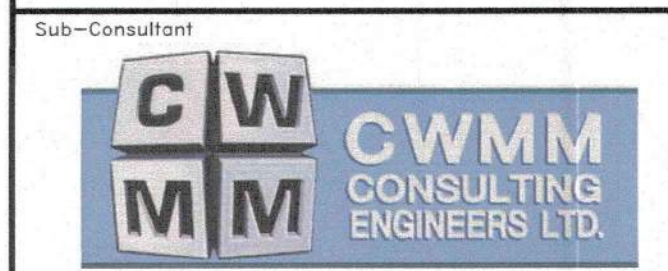
ROOF JOISTS	SPF #2 OR BETTER
-------------	------------------

PLYWOOD SHALL BE DOUGLAS FIR PLYWOOD, SHEATHING GRADE. ROOF SHEATHING SHALL BE TONGUE AND GROOVE JOINTED. SEE DRAWINGS FOR PLYWOOD THICKNESS AND DIAPHRAGM NAILING.

- CONNECTIONS: ALL NAILING SHALL BE WITH COMMON WIRE NAILS TO CSAB111. IF P-NAILS (POWER DRIVEN NAILS) ARE INTENDED AS SUBSTITUTION, SUBMIT P-NAILS INFORMATION FOR CWMM'S REVIEW PRIOR TO USE. ADJUSTMENT OF NAILS SPACING OR REQUIREMENTS MAY BE REQUIRED.
- 2x SOLID BLOCK SHALL BE PLACED BETWEEN ALL JOISTS AND RAFTERS AT SUPPORTS.
- UNLESS NOTED OTHERWISE, ALL LIGHT FRAMING CONSTRUCTION SHALL CONFORM WITH PART 9 OF BCBC 2018 / NBCC 2015.
- DOUBLE UP ALL TRIMMER JOISTS AROUND ALL ROOF OPENINGS. U.N.O.

ABBREVIATIONS

ALT.	ALTERNATE
BOTT.	BOTTOM
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
CL.	CLEAR
COL.	COLUMN
CONT.	CONTINUOUS
C/W	COMPLETE WITH
DP	DEEP
E/F	EACH FACE
EW	EACH WAY
E/S	EACH SIDE
F/S	FAR SIDE
G.L.	GRID LINE
H1E	HOOK ONE END
H2E	HOOK TWO ENDS
LG	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAX.	MAXIMUM
MIN.	MINIMUM
N/S	NEAR SIDE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O/C	ON CENTER
OPP.	OPPOSITE HAND
OWSJ	OPEN WEB STEEL JOIST
PAF	POWDER ACTUATED FASTENERS
P/C	PRECAST CONCRETE
PL	PLATE
R/W	REINFORCED WITH
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
STAGG.	STAGGERED
T&B	TOP AND BOTTOM
THK	THICK
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE



TRANSPORT CANADA
800 BARRARD ST
VANCOUVER, B.C.

3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOFING & BUILDING
ENVELOPE PROJECT

DRAWING LIST	
S4.00	GENERAL NOTES
S4.01	EXISTING ROOF UPGRADE PLAN & SECTIONS
S4.02	NEW ROOFTOP UNIT LAYOUT PLAN & SUPPORT DETAIL PLANS

Consultant Signature Only
Designed by/Concept par **DM**
Drawn by/Dessine par **CAD** 2020-JUN-04
PWGSC Project Manager/Administrateur de Projets TPSCG **JULIAN HO**
Regional Manager, Architectural and Engineering Services, Gestionnaire régionale, Services d'architectural et de génie, TPSCG **PREETIPAL PAUL**
Drawing title/Titre du dessin

GENERAL NOTES
Project No./No. du projet **R.105676.001** Sheet/Feuille **S4.00** Revision no./La Révision no. **0**
12506 1 OF 3

Revision / Révision	Description / Description	Date / Date
2	ISSUED FOR TENDER	2021-07-14
1	ISSUED FOR TENDER	2021-06-16

Key Plan

Seal



Sub-Consultant



Prime Consultant



RJC Project No. KEL.021700.0004

Client/client

TRANSPORT CANADA
800 BARRARD ST
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DM

Drawn by/Dessiné par

CAD 2020-JUN-04

PWGSC Project Manager/Administrateur de Projets TPSCG

JULIAN HO

Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSCG

PREETIPAL PAUL

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EXISTING ROOF UPGRADE
PLAN & SECTIONS

Project No./No. du projet

R.105676.001

Sheet/Feuille

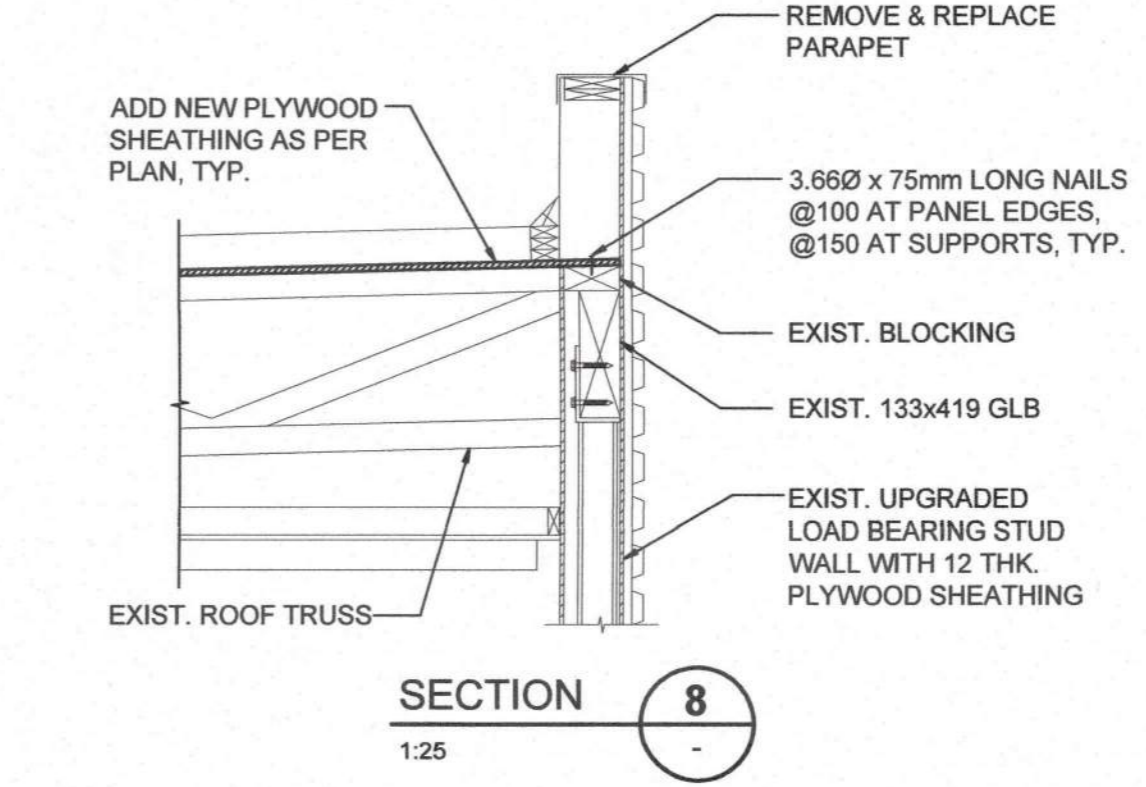
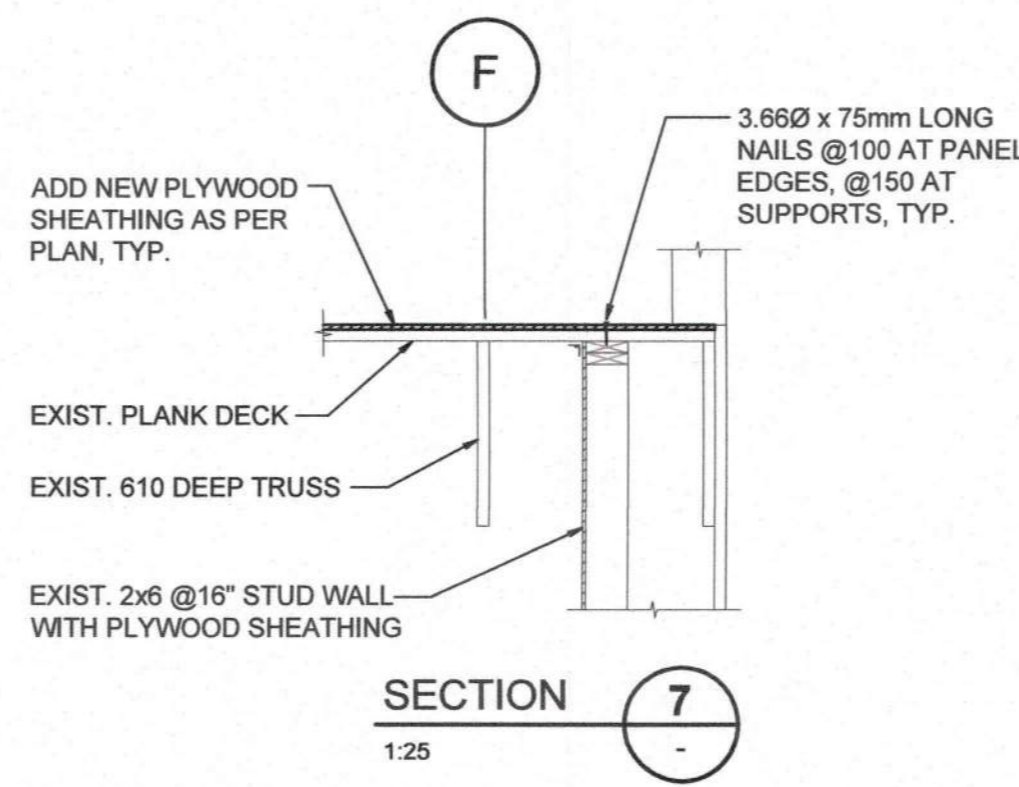
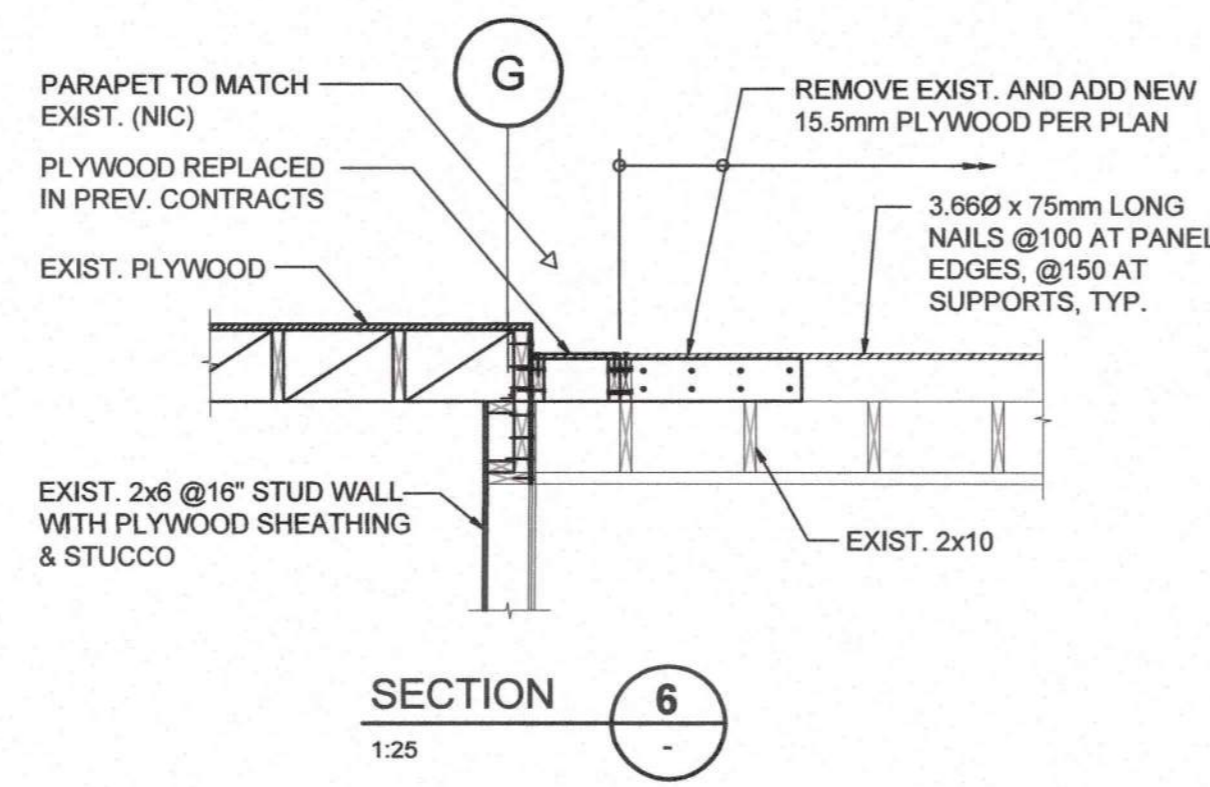
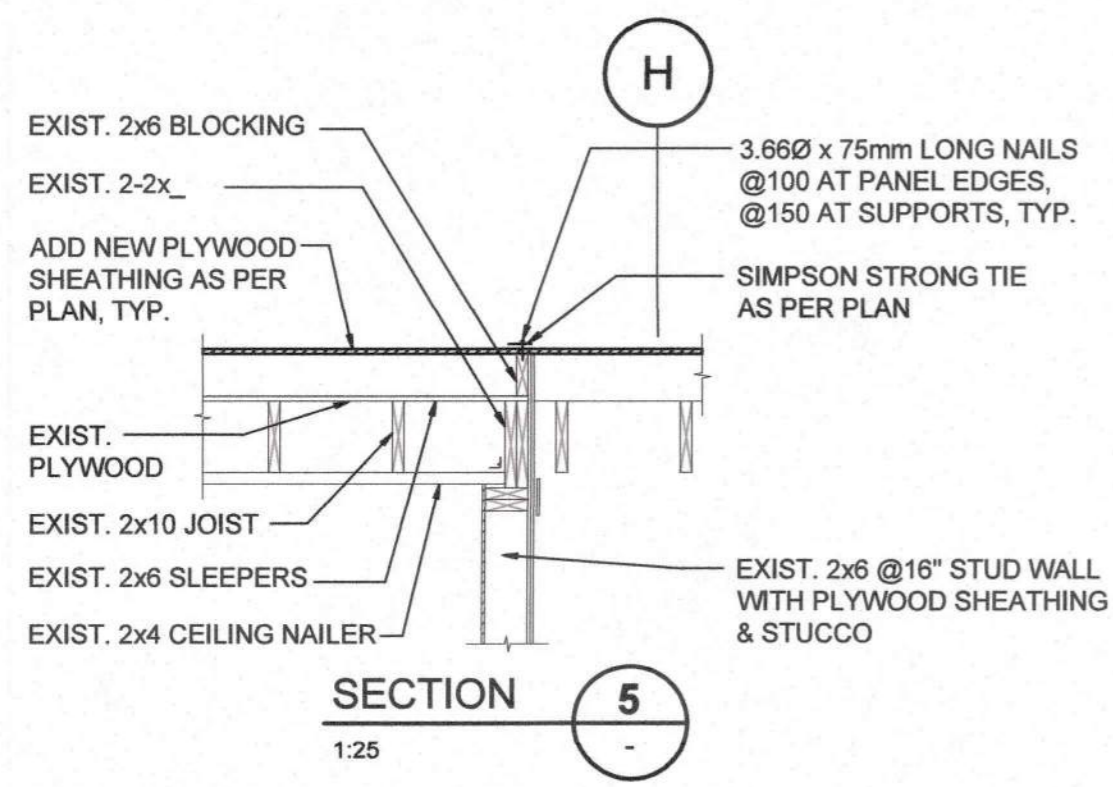
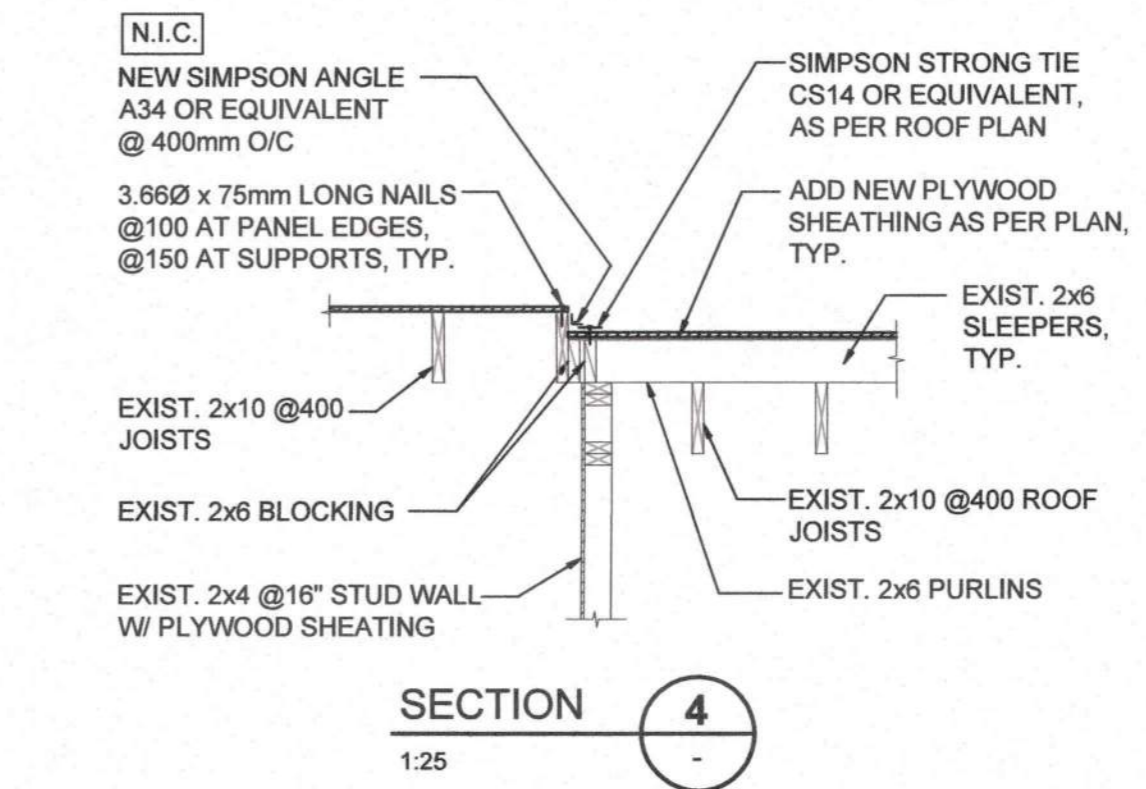
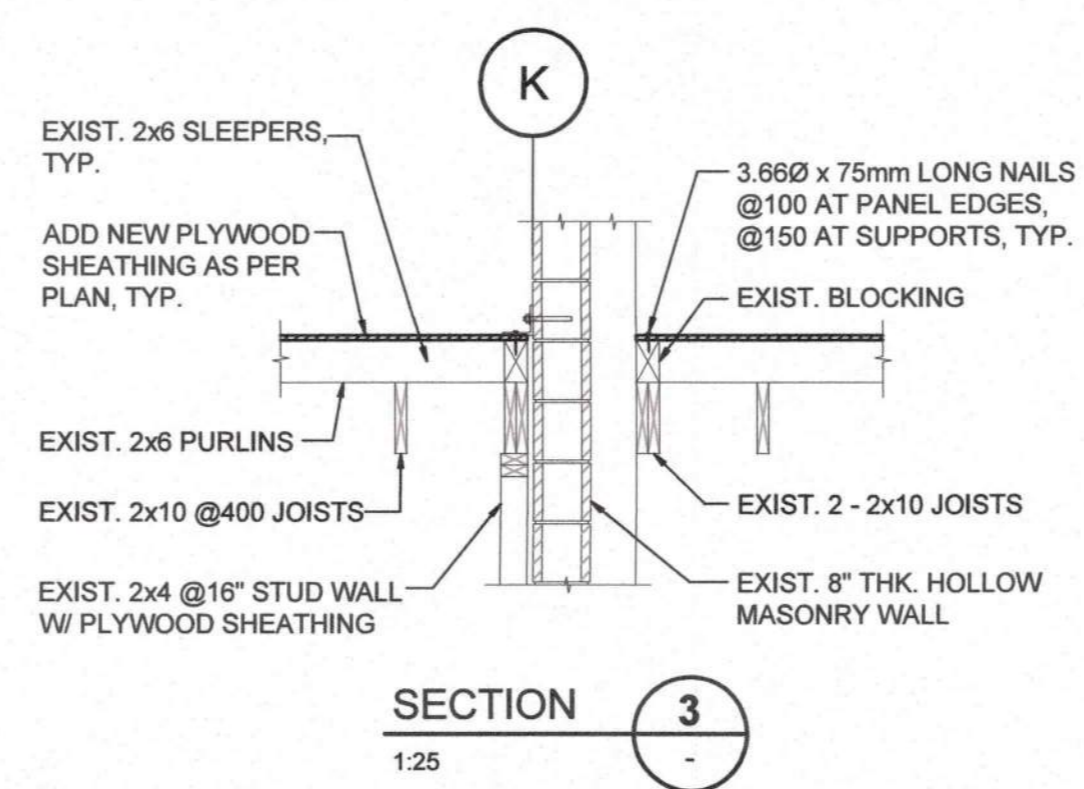
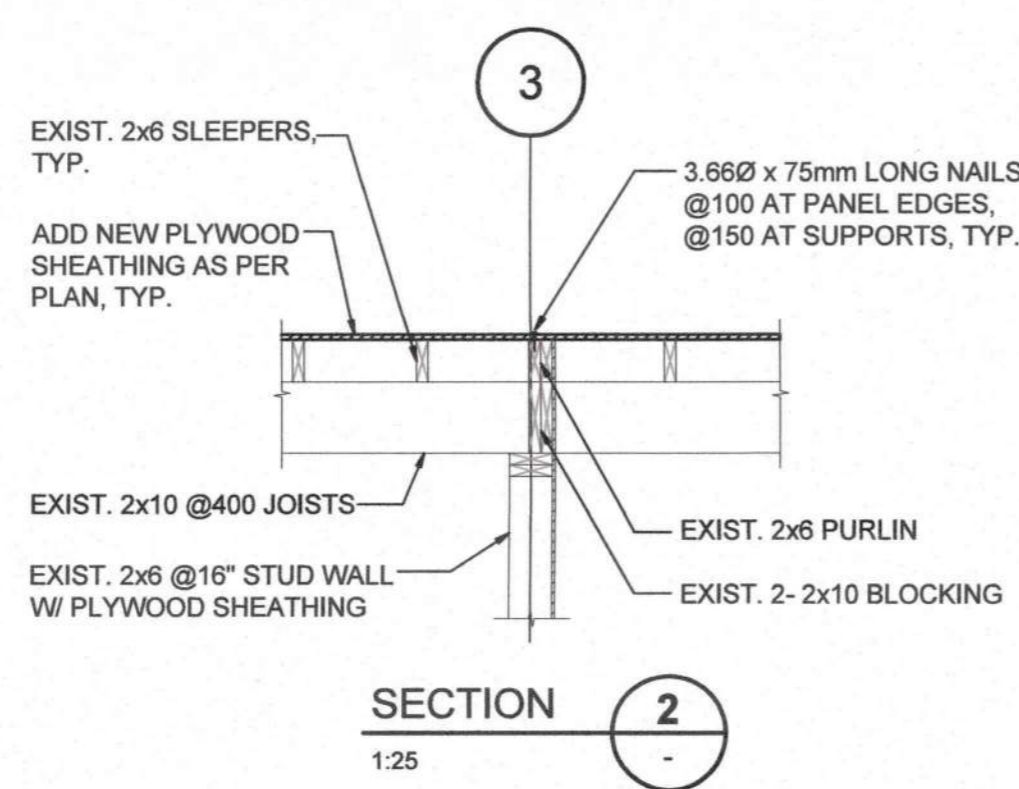
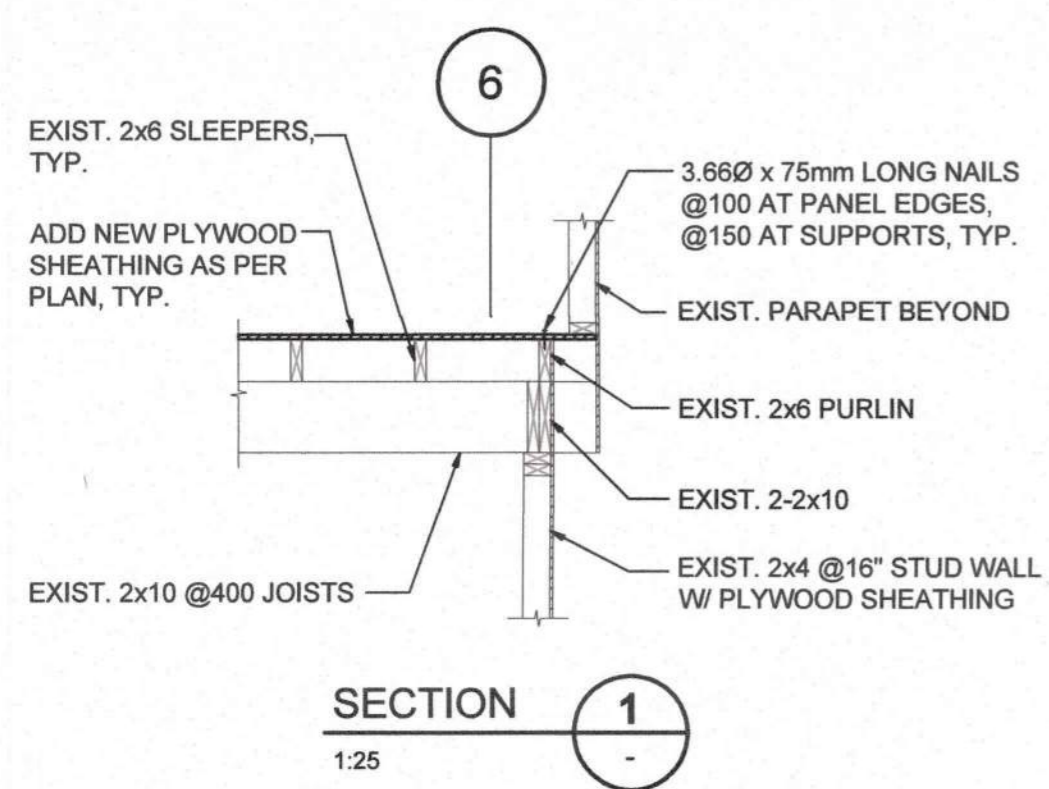
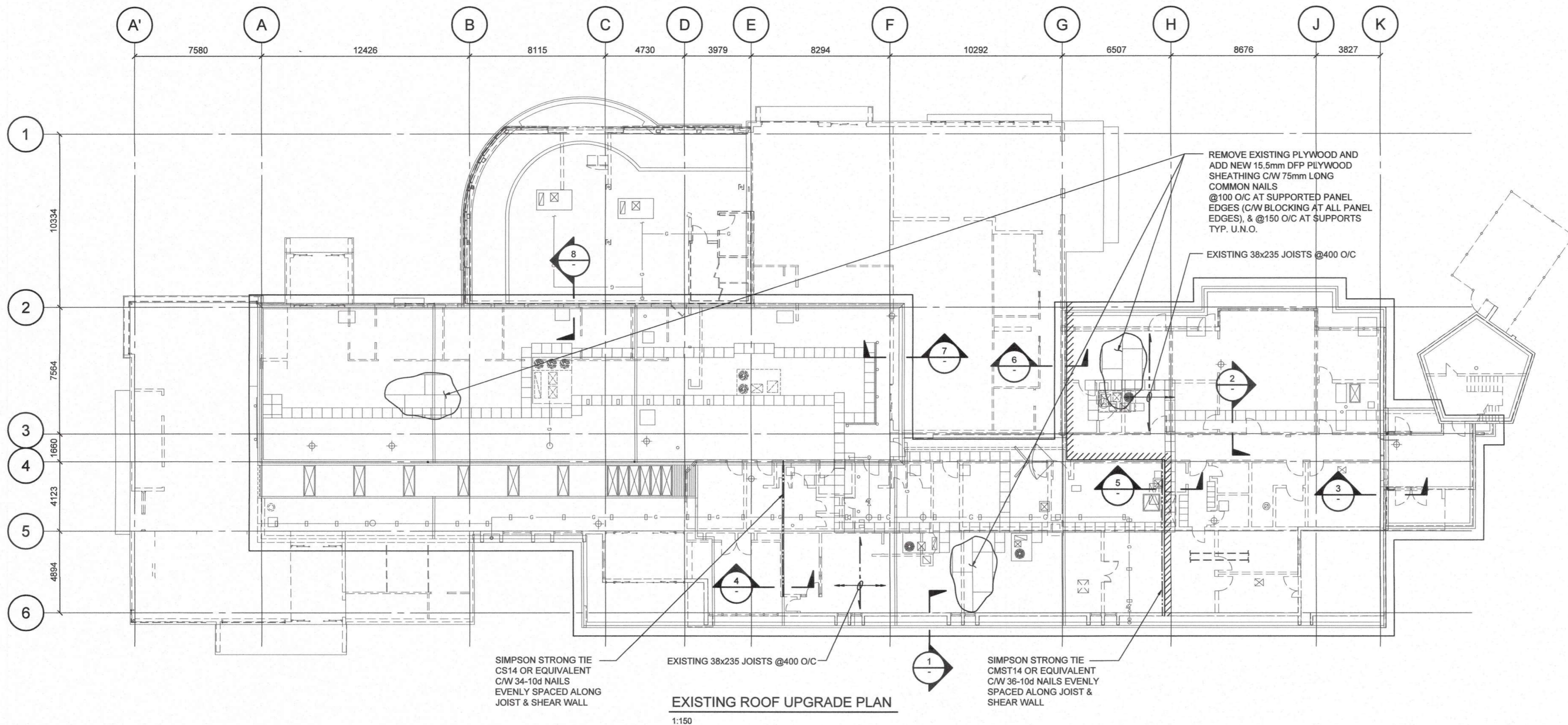
S4.01

Revision no./La Révision no.

0

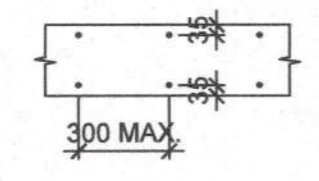
12506

2 OF 3

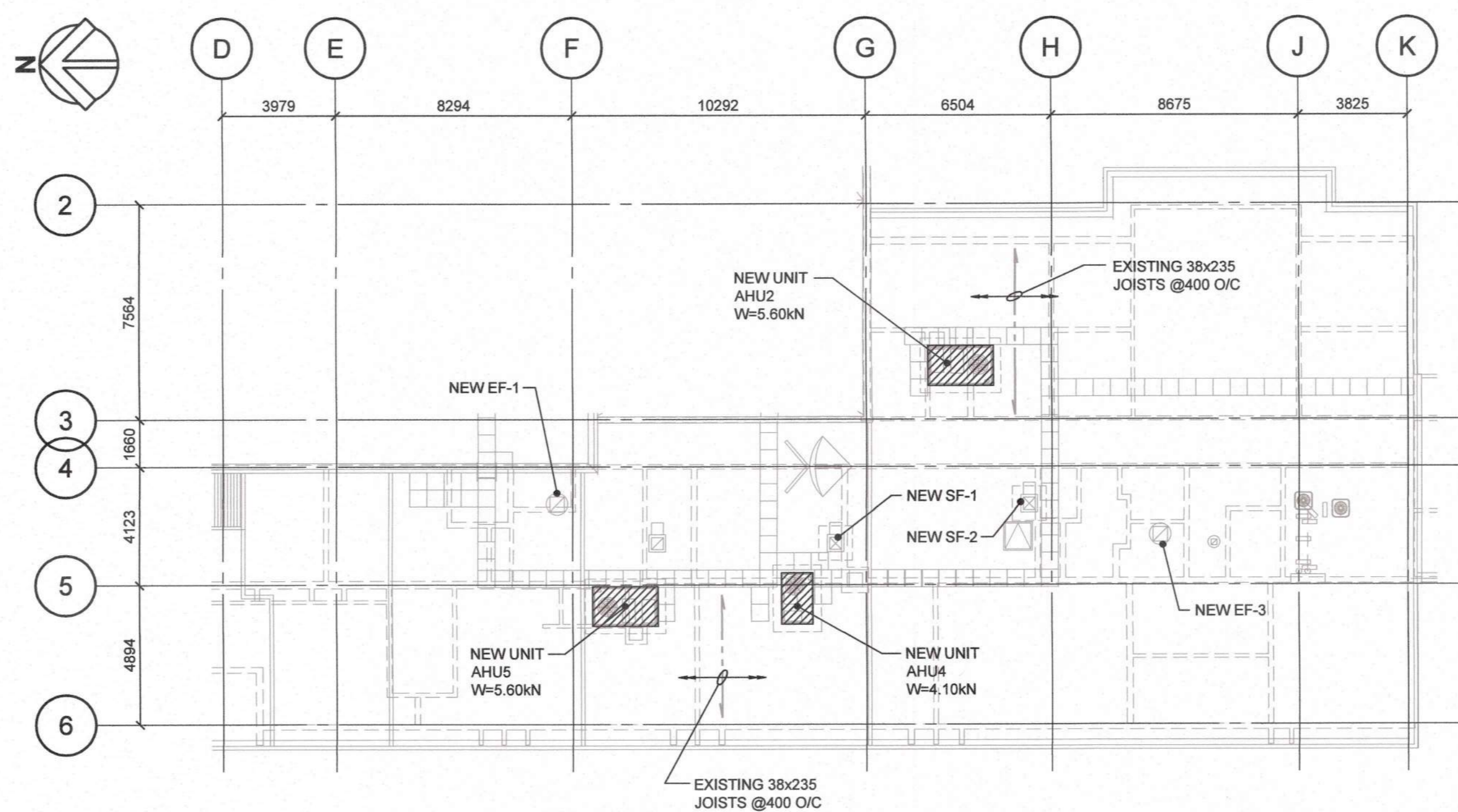
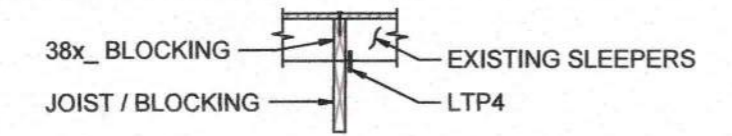


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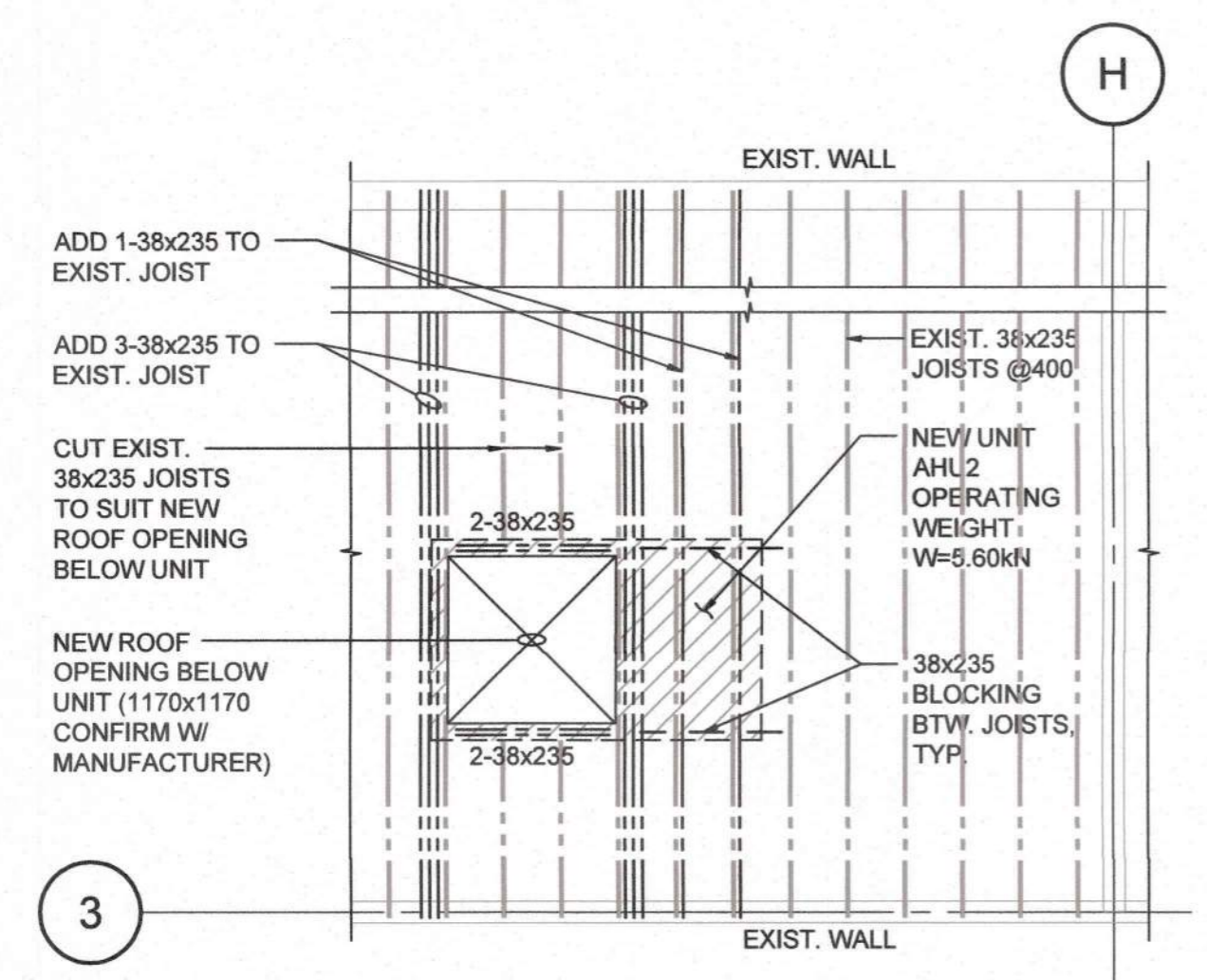
- NEW ROOF CURBS FOR ROOFTOP UNITS AHU2, AHU4, AHU5 AND FOR FANS SAF-1 & SAF-2 AS PER MECHANICAL DRAWING AND MANUFACTURER INSTRUCTIONS.
- CUT EXISTING SHEATHING WHERE REQUIRED AS PER MECHANICAL AND ARCHITECTURAL DRAWINGS FOR THE NEW ROOF OPENINGS AND NEW ROOF CURB CONSTRUCTION.
- PATCH WITH NEW PLYWOOD SHEATHING OF SAME THICKNESS AFTER CONSTRUCTION OF NEW ROOF CURB AND NAIL PLYWOOD PATCHES TO ROOF FRAMING WITH 3.25mm DIAMETER x 64mm LONG COMMON WIRE NAILS @150 O/C MAX.
- ROOF CURB / SEISMIC / VIBRATION ISOLATION BY MECHANICAL, REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
- EXISTING ROOF CURBS FOR EXHAUST FANS TO REMAIN, REPLACE EXISTING ROOF FANS WITH NEW FANS AS PER MECHANICAL DRAWINGS.
- NEW HANGER: LU28L OR EQUIVALENT FOR 1-38x235; LU28-2 OR EQUIVALENT FOR 2-38x235.
- BUILT-UP MEMBER NAILING PATTERN: 2 ROWS OF 16d COMMON NAILS @300 O/C MAX., 2-PLY 76 LONG NAILS; 3-PLY 102 LONG NAILS; 4-PLY 150 LONG NAILS.



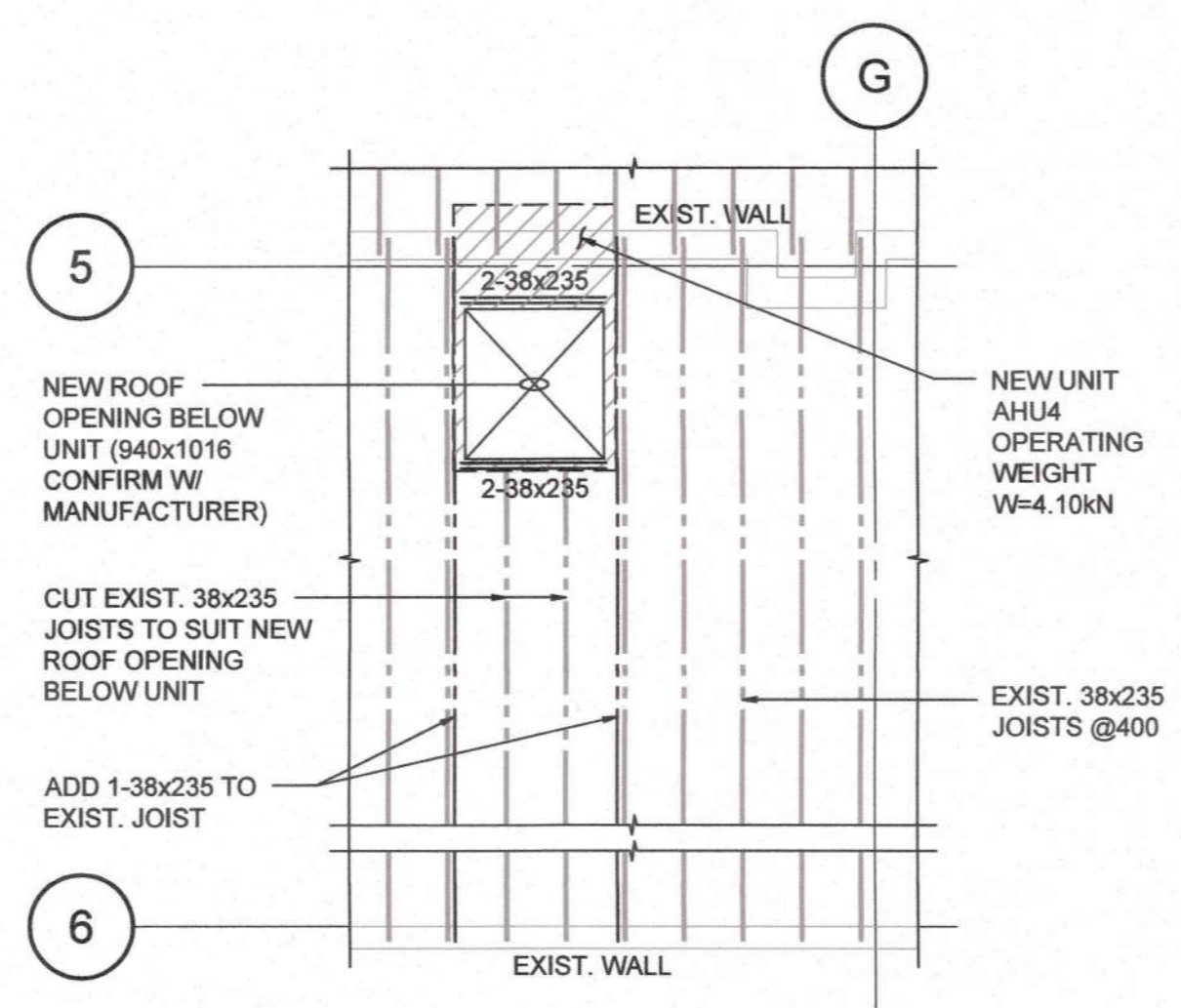
- PROVIDE 38x BLOCKING, DEPTH TO MATCH EXISTING SLEEPER DEPTH ON TOP OF EXISTING JOISTS AND BETWEEN JOISTS BELOW NEW ROOF CURB, CONNECT TO JOIST OR 38x235 BLOCKING WITH SIMPSON PLATE LTP4 OR EQUIVALENT @400 O/C MAX.



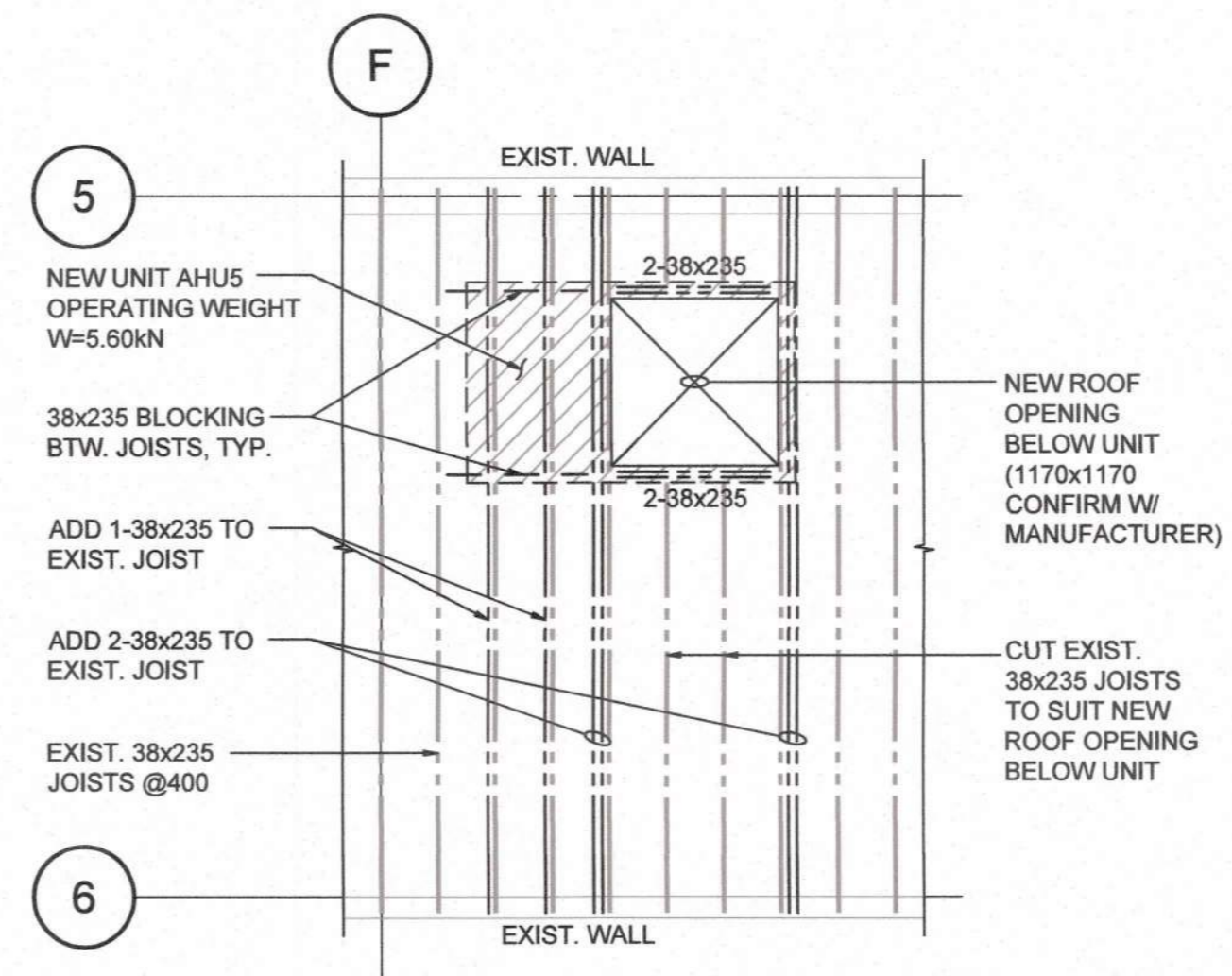
PARTIAL ROOF PLAN FOR NEW ROOFTOP UNIT LAYOUT
1:150



NEW ROOFTOP UNIT AHU2 SUPPORT DETAIL PLAN
1:50



NEW ROOFTOP UNIT AHU4 SUPPORT DETAIL PLAN
1:50



NEW ROOFTOP UNIT AHU5 SUPPORT DETAIL PLAN
1:50

- NOTES:**
- JOIST BEARING CONDITIONS AT SUPPORT WALLS TO BE CONFIRMED ON SITE.
 - ROOF 2x6 SLEEPER FRAMING NOT SHOWN FOR CLARITY, CUT SLEEPERS TO SUIT FOR NEW ROOF OPENING BELOW NEW ROOFTOP UNITS.

Revision/Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	2021-07-14
1	ISSUED FOR TENDER	2021-06-16

Key Plan



Prime Consultant
rjc Engineers
 RJC Project No. KEL.021700.0004

Client/client
TRANSPORT CANADA
 800 BARRARD ST
 VANCOUVER, B.C.

Project title/Titre du projet
**3000 AIRPORT ROAD
 PENTICTON, BC
 PENTICTON REGIONAL AIRPORT
 PENTICTON ATB
 ROOFING & BUILDING
 ENVELOPE PROJECT**

Consultant Signature Only

Designed by/Concept par
DM

Drawn by/Dessine par
CAD 2020-JUN-04

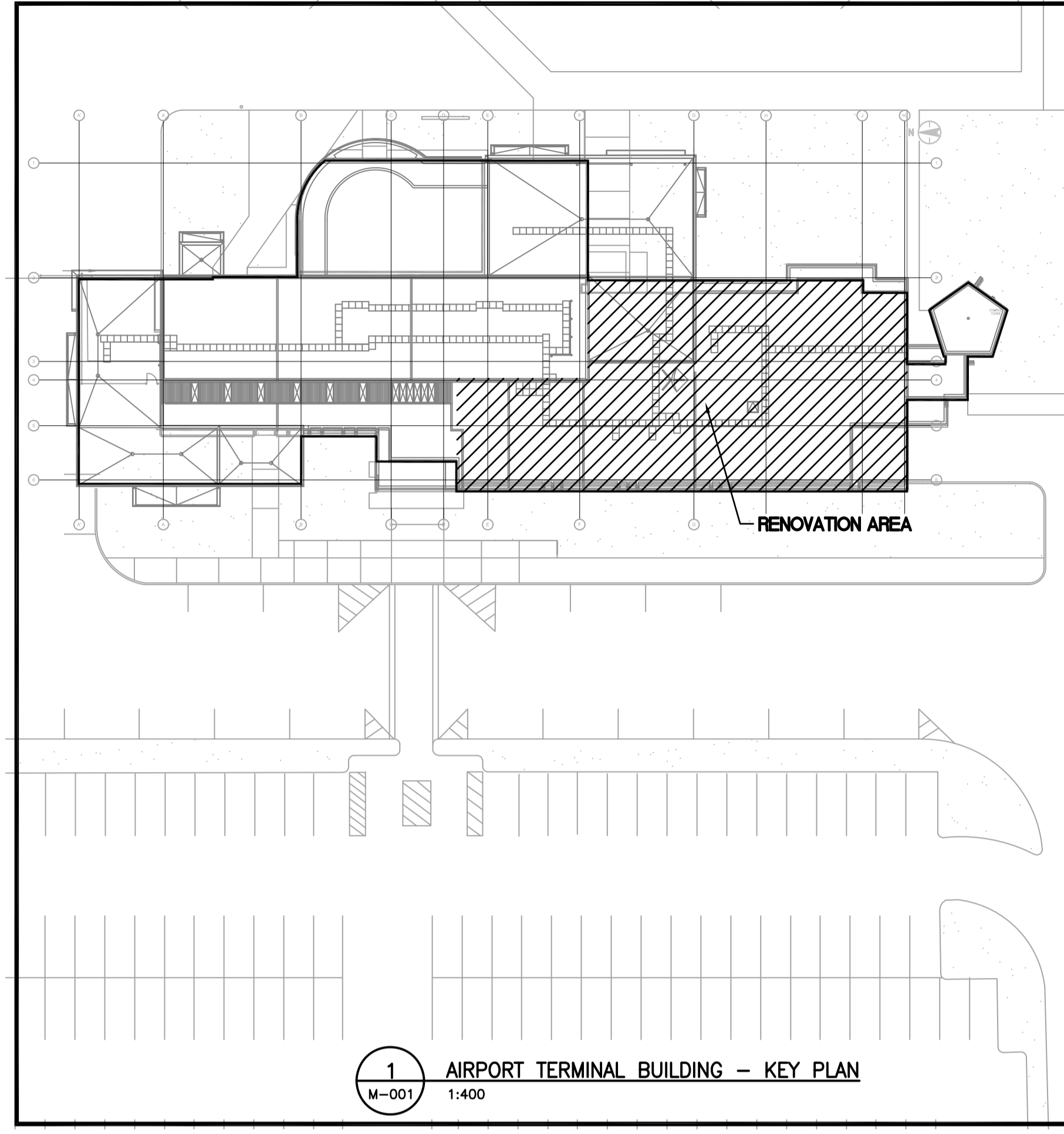
PWGSC Project Manager/Administrateur de Projets TPSCG
JULIAN HO

Regional Manager, Architectural and Engineering Services,
 Gestionnaire régionale, Services d'architectural et de génie, TPSCG
PREETIPAL PAUL

Drawing title/Titre du dessin

**NEW ROOFTOP UNIT
 LAYOUT PLAN &
 SUPPORT DETAIL PLANS**

Project No./No. du projet R.105676.001	Sheet/ Feuille S4.02	Revision no./ La Révision no. 0
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1 M-001 1:400 AIRPORT TERMINAL BUILDING - KEY PLAN

NO.	NAME	DESCRIPTION	SCALE
1 OF 8	M-001	SITE PLAN, GENERAL NOTES, MECHANICAL LEGEND, MECHANICAL DRAWING LIST	N.T.S.
2 OF 8	M-002	SUPPLEMENTAL REQUIREMENTS	1:200
3 OF 8	M-003	SITE PHOTOS AND SCHEMATICS	N.T.S.
4 OF 8	M-101	LEVEL 1 - HVAC DEMOLITION	1:100
5 OF 8	M-102	ROOF PLAN - HVAC DEMOLITION	1:100
6 OF 8	M-201	LEVEL 1 - HVAC NEW	1:100
7 OF 8	M-202	ROOF PLAN - HVAC NEW	1:100
8 OF 8	M-601	MECHANICAL EQUIPMENT SCHEDULES	N.T.S.

- GENERAL NOTES :**
- CONTACT AND COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE FOR ALL WORK AFFECTING THE BASE BUILDING HVAC, PLUMBING OR LIFE SAFETY SYSTEMS. EXISTING BUILDING SYSTEMS SUCH AS FIRE ALARM, SPRINKLER, CONTROLS, COMMUNICATION, SECURITY AND BUILDING SYSTEMS, TO REMAIN FULLY OPERATIONAL DURING CONSTRUCTION.
 - DEVELOP WORK SCHEDULE AND SUBMIT TO DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF WORK. THE WORK SCHEDULE, AT MINIMUM, SHOULD DESCRIBE WORK PERFORMED AFTER HOURS AND/OR WEEKENDS IN THE:
 - CORRIDORS AND HALLWAYS
 - ARRIVALS,
 - SECURITY AND SECURITY WAITING,
 - TERMINAL LOBBY.
 - PROVIDE TEMPORARY HEATING AND VENTILATION. HVAC SYSTEM SHALL BE OPERATIONAL THROUGHOUT. COORDINATE THE MINIMUM HVAC REQUIREMENTS WITH THE DEPARTMENTAL REPRESENTATIVE AND SUBMIT HVAC OPERATION PLAN.
 - PATCH AND MAKE GOOD ALL DAMAGED CEILING/WALL/ROOF/FLOORING FOR NEW AND DEMOLITION MECHANICAL WORK. REPLACE ANY DAMAGE AND/OR CUT CEILING TILE. COORDINATE WITH GENERAL CONTRACTOR. DO NOT REINSTATE ANY HAZARDOUS MATERIAL.
 - LOCATION OF EXISTING EQUIPMENT SHOWN ON THIS DRAWING IS FOR INFORMATION ONLY. CONTRACTOR SHOULD REVIEW AND CHECK THE EXACT LOCATION, SIZE, ELEVATION AND INVERT OF ALL EXISTING EQUIPMENT AND PIPING ON SITE PRIOR TO COMMENCING WITH WORK.
 - MODIFY THE SIZE AND ROUTING OF NEW DUCTWORK AND PIPING AS REQUIRED TO SUIT THE SITE CONDITIONS WITHOUT EXTRA COST TO THE DEPARTMENTAL REPRESENTATIVE. PROVIDE ADEQUATE OFFSETS, AND TRANSITIONS ON NEW DUCTWORK AND PIPING AS REQUIRED TO SUIT SITE CONDITIONS. CAPTURE ALL VARIATIONS ON AS-BUILT DRAWINGS. SUBMIT AS-BUILT DRAWINGS ON COMPLETION OF PROJECT.
 - COORDINATE WITH THE PRIME CONTRACTOR, AS WELL AS ALL OTHER AFFECTED SUB-TRADES.
 - COORDINATE WITH ELECTRICAL CONTRACTOR TO DECOMMISSION ELECTRICAL POWER, WIRING AND CIRCUITS.
 - PROVIDE INSULATION ON NEW DUCTWORK.
 - PROVIDE ACOUSTIC DUCT LINER WITHIN NEW SUPPLY AND RETURN DUCT TRANSITIONS AT EACH NEW AHU CONNECTION.
 - PROVIDE DUCT CLEANING TO ALL NEW AND EXISTING DUCTWORK, INCLUDING ALL MAIN DUCT, ALL BRANCH DUCT, ALL PLENUMS AND UNDERFLOOR BRANCH DUCT. WIPE DOWN ALL AIR TERMINAL OUTLETS MOUNTED IN CEILING, IN FLOOR, ON WALLS. VACUUM SPACE ABOVE T-BAR CEILINGS. SUBMIT DUCT CLEANING CERTIFICATE.
 - PROVIDE FIRE STOPPING FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS. SUBMIT FIRE STOPPING CERTIFICATE.
 - SEISMICALLY RESTRAIN ALL RELOCATED AND NEW MECHANICAL EQUIPMENT. SUBMIT SEISMIC LETTERS OF ASSURANCE FROM SEISMIC PROFESSIONAL ENGINEER.
 - WHERE HVAC EQUIPMENT (ACU'S, FANS) HAVE BEEN REMOVED, REMOVE ALL ASSOCIATED ABANDONED CONTROLS AND CONTROL WIRING, DUCTWORK AND SHEET METAL ACCESSORIES.
 - PRIOR TO START OF WORK, CONTRACTOR TO ENSURE ALL HVAC CONTROL SENSORS AND COVERS ARE PROTECTED FROM DAMAGE. REPORT ALL DAMAGED SENSORS TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF WORK.
 - AT COMPLETION OF THE PROJECT, HVAC CONTROL SENSORS (NEW AND EXISTING) ARE TO BE CHECKED FOR PROPER OPERATION AND ARE TO BE CALIBRATED. REPORT ALL DAMAGED SENSORS TO THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL REPLACE DAMAGED HVAC CONTROL SENSORS.
 - DO NOT REINSTATE HAZARDOUS MATERIALS.
 - SEE PROJECT SPECIFICATIONS FOR SUPPLEMENTARY REQUIREMENTS.

MECHANICAL LEGEND:

TAGS AND SYMBOLS

AIR TERMINAL TAG
 SUPPLY S
 RETURN R
 EXHAUST E
 LOUVRE L

AIR FLOW TAG FOR EXISTING AIR TERMINAL (L/S)

MECHANICAL EQUIPMENT TAG

CONNECT TO EXISTING
 EXISTING TO REMAIN

SPECIFIC KEY NOTE
 DRAWING REVISION NO.

SECTION NO. AND CUT LINE

SECTION/DETAIL DESCRIPTION

ACCESS PANEL (450X450) U.N.O.

DOOR UNDERCUT 25MM

FLOW DIRECTION - AIR

FLOW DIRECTION - FLUID

QUANTITY
 TYPE
 FLOW (L/S)
 SIZE (MM)

EXIST. ACU

SECTION NO. ON SHEET NO.

SECTION/DETAIL NO. ON SHEET NO.

SCALE: 1:50

HVAC DUCTING SYMBOLS

SQUARE ELBOW WITH MULTI-BLADE TURNING VANES

SUPPLY DUCT TOWARD, AWAY

RETURN OR TRANSFER DUCT TOWARD, AWAY

EXHAUST DUCT TOWARD, AWAY

OUTDOOR AIR DUCT TOWARD, AWAY

ROUND DUCT TOWARD, AWAY

BRANCH TAKEOFF SQUARE->SQUARE

BRANCH TAKEOFF SQUARE->ROUND

BRANCH TAKEOFF ROUND->ROUND

HVAC

	NEW	EXISTING
DUCTWORK RECTANGULAR	300x400	300x400
DUCTWORK ROUND	300ø	300ø
SINGLE LINE DUCTWORK	300ø	300ø
CAPPED OFF DUCT	CAP	CAP
ACOUSTIC DUCT LINER	[Symbol]	[Symbol]
BALANCING DAMPER	[Symbol] OR [Symbol]	[Symbol] OR [Symbol]
BACKDRAFT DAMPER BDD = BACKDRAFT DAMPER BBD = "BALANCED" BACKDRAFT DAMPER	[Symbol] OR [Symbol]	[Symbol] OR [Symbol]
FIRE DAMPER	[Symbol] OR [Symbol]	[Symbol] OR [Symbol]
SUPPLY AIR GRILLE OR DIFFUSER	[Symbol] OR [Symbol]	[Symbol] OR [Symbol]
RETURN AIR GRILLE	[Symbol]	[Symbol]
EXHAUST AIR GRILLE	[Symbol]	[Symbol]
HEATING WATER SUPPLY PIPING	HWS	HWS
HEATING WATER RETURN PIPING	HWR	HWR
HVAC DRAINAGE PIPING	D	D
HVAC MAKE-UP WATER PIPING	MAKE-UP	MAKE-UP

HVAC PIPING SYMBOLS

FLANGE CONNECTION

UNION CONNECTION

PIPE CAP

PIPE BREAK

PIPING ELBOW DOWN

PIPING ELBOW UP

PIPING TEE UP

PIPING TEE DOWN

PIPING TEE

GATE VALVE

GLOBE VALVE

PRESSURE REDUCING VALVE

HVAC CONTROLS SYMBOLS

CONTROL WIRING

THERMOSTAT

WALL MOUNTED SWITCH

WALL MOUNTED VARIABLE SPEED SWITCH

CARBON DIOXIDE SENSOR

OCCUPANCY SENSOR

SMOKE SENSOR

MOTORIZED DAMPER C/W ACTUATOR

PLUMBING

	NEW	EXISTING
GAS PIPING	G	G
ROOF DRAIN	RD	RD

DEMOLITION

EXISTING EQUIPMENT TO BE REMOVED

EXISTING DUCTWORK OR PIPING TO BE REMOVED

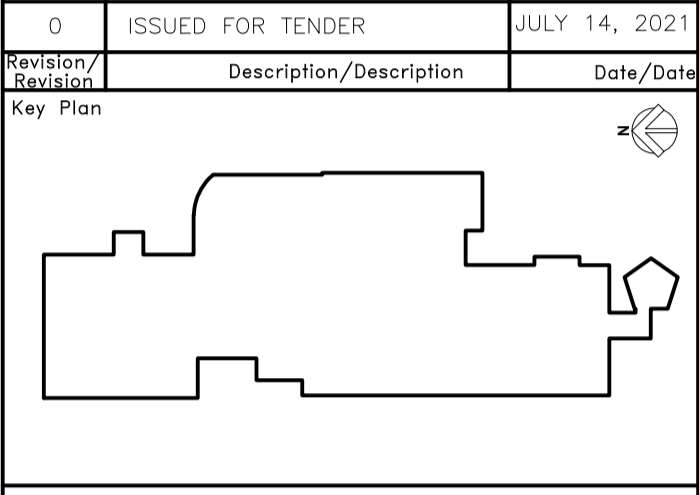
EXISTING DIFFUSER OR GRILLE TO BE REMOVED

EXISTING THERMOSTAT, SENSOR, OR SWITCH TO BE REMOVED

EXISTING VALVE ACCESSORIES TO BE REMOVED

RELOCATE EXISTING EQUIPMENT

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021



Sub-Consultant

Seal



Prime Consultant

rjc RJC Project No. KEL.021700.0004
 Engineers

Client/client

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 VANCOUVER, B.C.

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 ROOF SEISMIC UPGRADE
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Designed by/Concept par
 LB / WH

Drawn by/Dessine par
 LB / RM

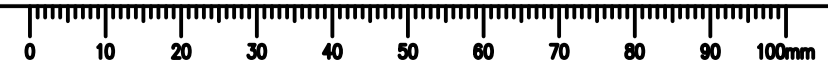
PWSC Project Manager/Administrateur de Projets TPSCG
 JULIAN HO

Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architectural et de génie, TPSCG
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Drawing title/Titre du dessin

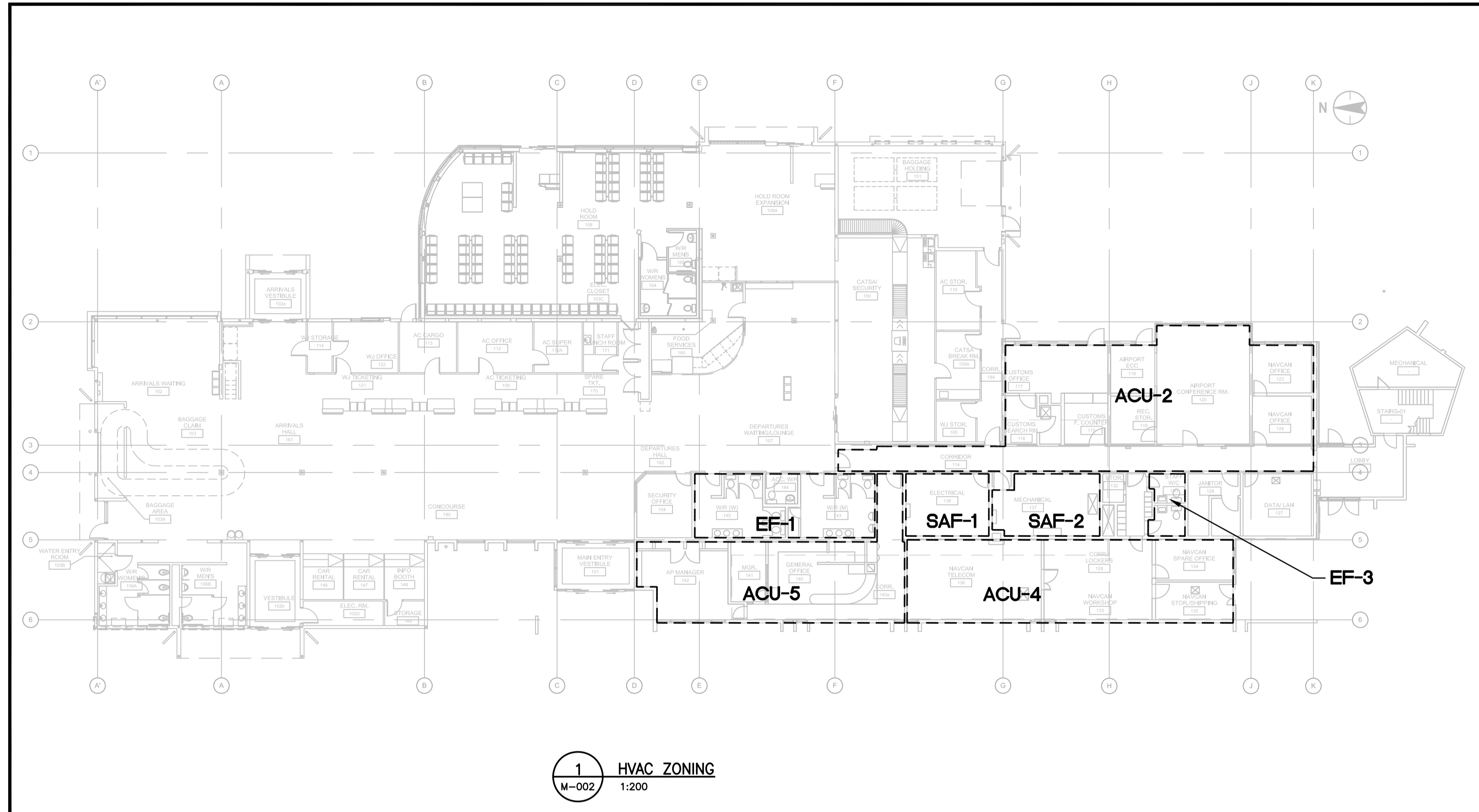
**SITE PLAN, GENERAL NOTES,
 MECHANICAL LEGEND,
 MECHANICAL DRAWING LIST**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.105676.001	M001 1 OF 8	0

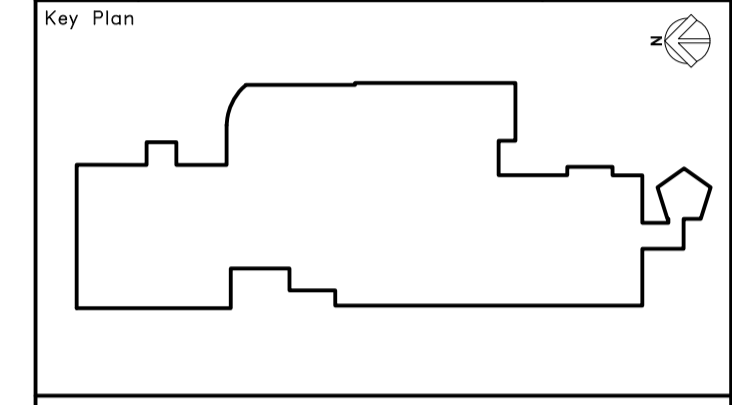


SUPPLEMENTAL AIR BALANCING NOTES:

- MEASURE ALL EXISTING HVAC OUTLETS WITHIN EACH ZONE SERVED PRIOR TO DEMOLITION. SUBMIT REPORT FOR RECORD. REPORT SHALL BE USED TO BALANCE NEW HVAC EQUIPMENT.
- BALANCE NEW HVAC EQUIPMENT TO MATCH PRE-RENOVATION AIR QUANTITIES, UNLESS NOTED OTHERWISE.



Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021



Seal

Sub-Consultant

Prime Consultant

RJC Project No. KEL.021700.0004

Client/client

TRANSPORT CANADA
800 BURNARD ST
VANCOUVER, B.C.

Project title/Titre du projet

3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

Consultant Signature Only

Designed by/Concept par
LB / WH

Drawn by/Dessine par
LB / RM

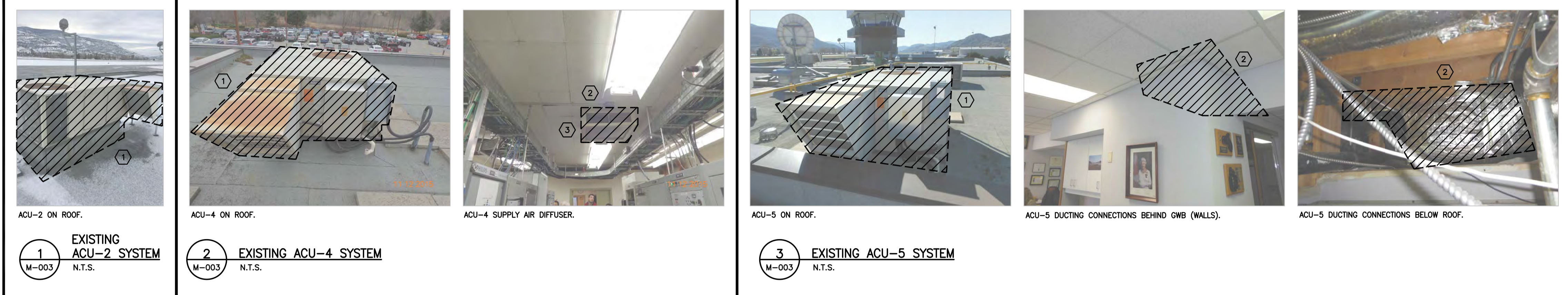
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO

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

Drawing title/Titre du dessin

SUPPLEMENTAL REQUIREMENTS

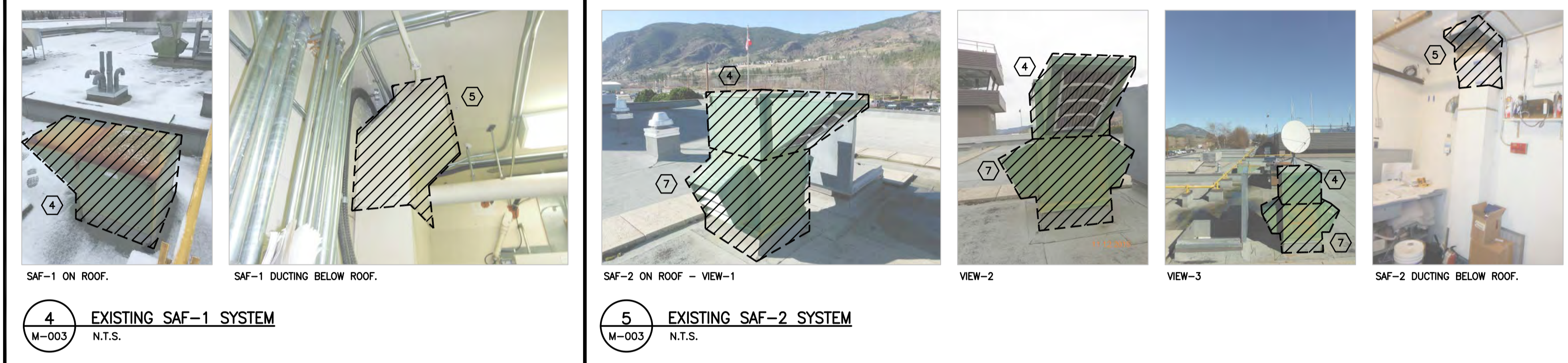
Project No./No. du projet R.105676.001	Sheet/Feuille M002 2 OF 8	Revision no./La Révision no. 0
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1 EXISTING ACU-2 SYSTEM
M-003 N.T.S.

2 EXISTING ACU-4 SYSTEM
M-003 N.T.S.

3 EXISTING ACU-5 SYSTEM
M-003 N.T.S.



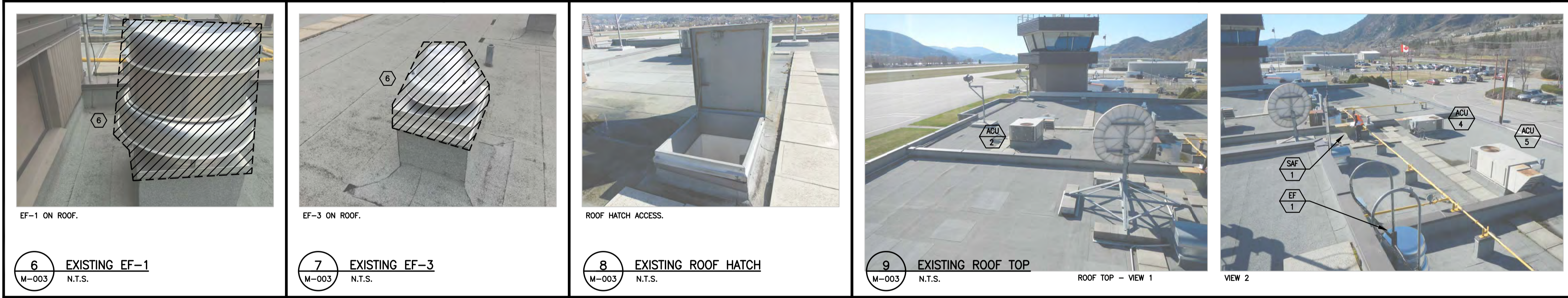
4 EXISTING SAF-1 SYSTEM
M-003 N.T.S.

5 EXISTING SAF-2 SYSTEM
M-003 N.T.S.

GENERAL NOTES:
1. SEE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR SUPPLEMENTAL DETAILS.

SPECIFIC KEY NOTES :

- REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED ACU SYSTEM, ROOF CURB, ASSOCIATED DUCT CONNECTIONS AND CONTROLS. ALLOW FOR ROOF DEMOLITION BEYOND THE EQUIPMENT FOOTPRINT.
- REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED ACU SYSTEM. REMOVE AND REINSTATE THE WALL AND CEILING AS NEEDED.
- REMOVE AND REINSTATE EXISTING SUPPLY AIR DIFFUSER SYSTEM AS NEEDED TO CONNECT NEW AIR HANDLING UNIT.
- REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED FAN SYSTEM, ROOF CURB, ASSOCIATED DUCT CONNECTIONS, AND CONTROLS. ALLOW FOR ROOF DEMOLITION BEYOND THE EQUIPMENT FOOTPRINT.
- REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED FAN SYSTEM.
- REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED FAN SYSTEM, ASSOCIATED DUCT CONNECTIONS, AND CONTROLS.
- REMOVE AND REPLACE EXISTING CUSTOM ROOFTOP MOUNTED GRAVITY HOOD, AS INTEGRAL PART OF THE SUPPLY FAN. REPLACE WITH SIMILAR C/W BIRD SCREEN, LOUVRE. COORDINATE PLACEMENT WITH FAN AND NEW ROOF CURB. PROVIDE CUSTOM CONFIGURATION TO MATCH EXISTING.

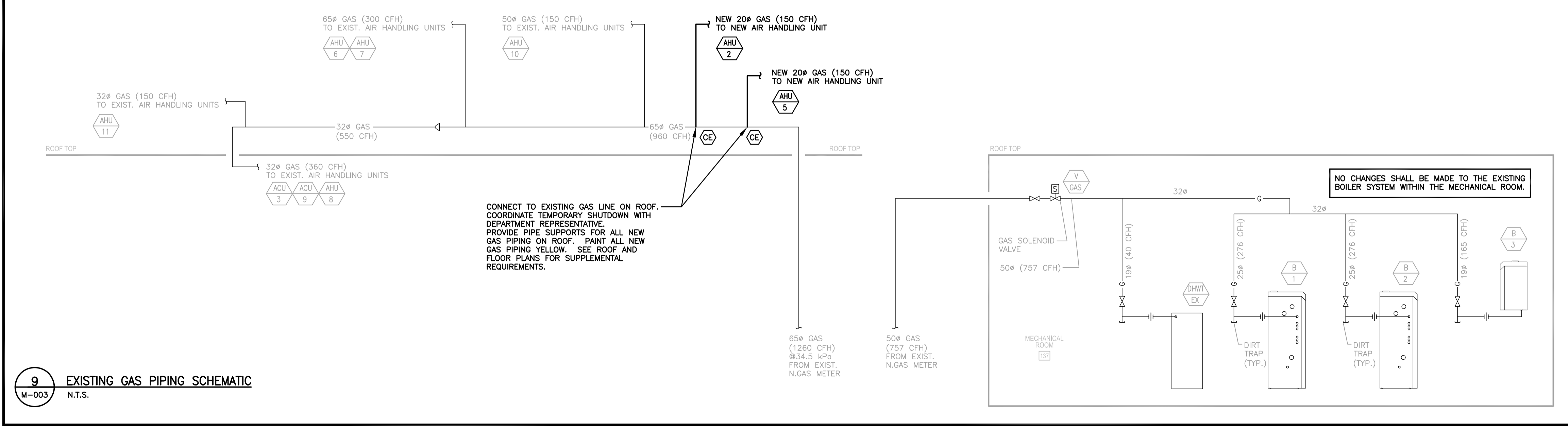


6 EXISTING EF-1
M-003 N.T.S.

7 EXISTING EF-3
M-003 N.T.S.

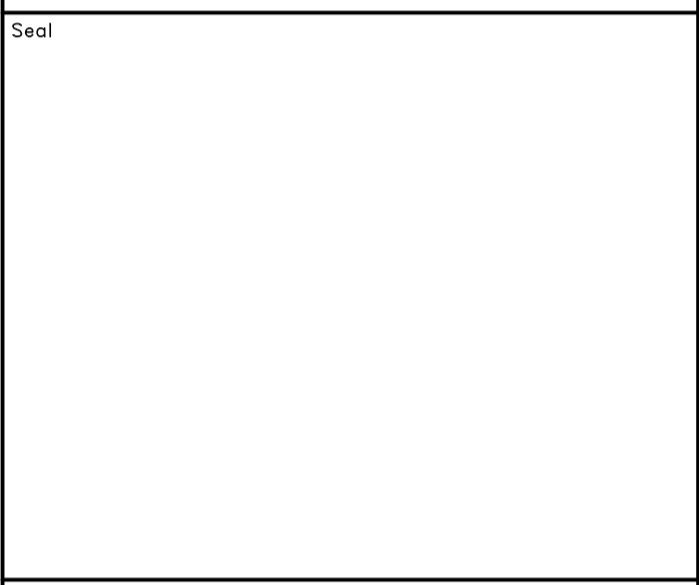
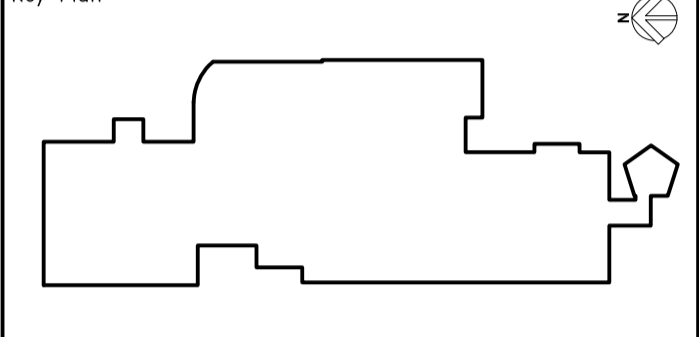
8 EXISTING ROOF HATCH
M-003 N.T.S.

9 EXISTING ROOF TOP
M-003 N.T.S.



9 EXISTING GAS PIPING SCHEMATIC
M-003 N.T.S.

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021



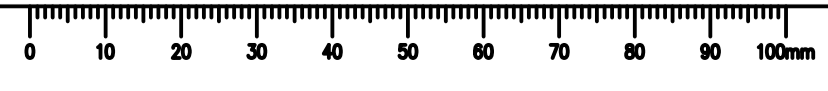
RJC Project No. KEL.021700.0004

TRANSPORT CANADA
800 BURNARD ST VANCOUVER, B.C.

3000 AIRPORT ROAD PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB ROOF SEISMIC UPGRADE ROOFING & BUILDING ENVELOPE PROJECT

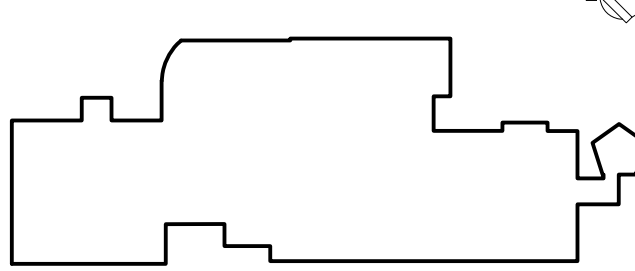
Designed by/Concept par LB / WH
Drawn by/Dessine par LB / RM
PWSC Project Manager/Administrateur de Projets TPSGC JULIAN HO
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC PREETIPAL PAUL

SITE PHOTOS AND SCHEMATICS



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021

Key Plan



Seal



Prime Consultant
rlc
Engineers
RJC Project No.
KEL.021700.0004

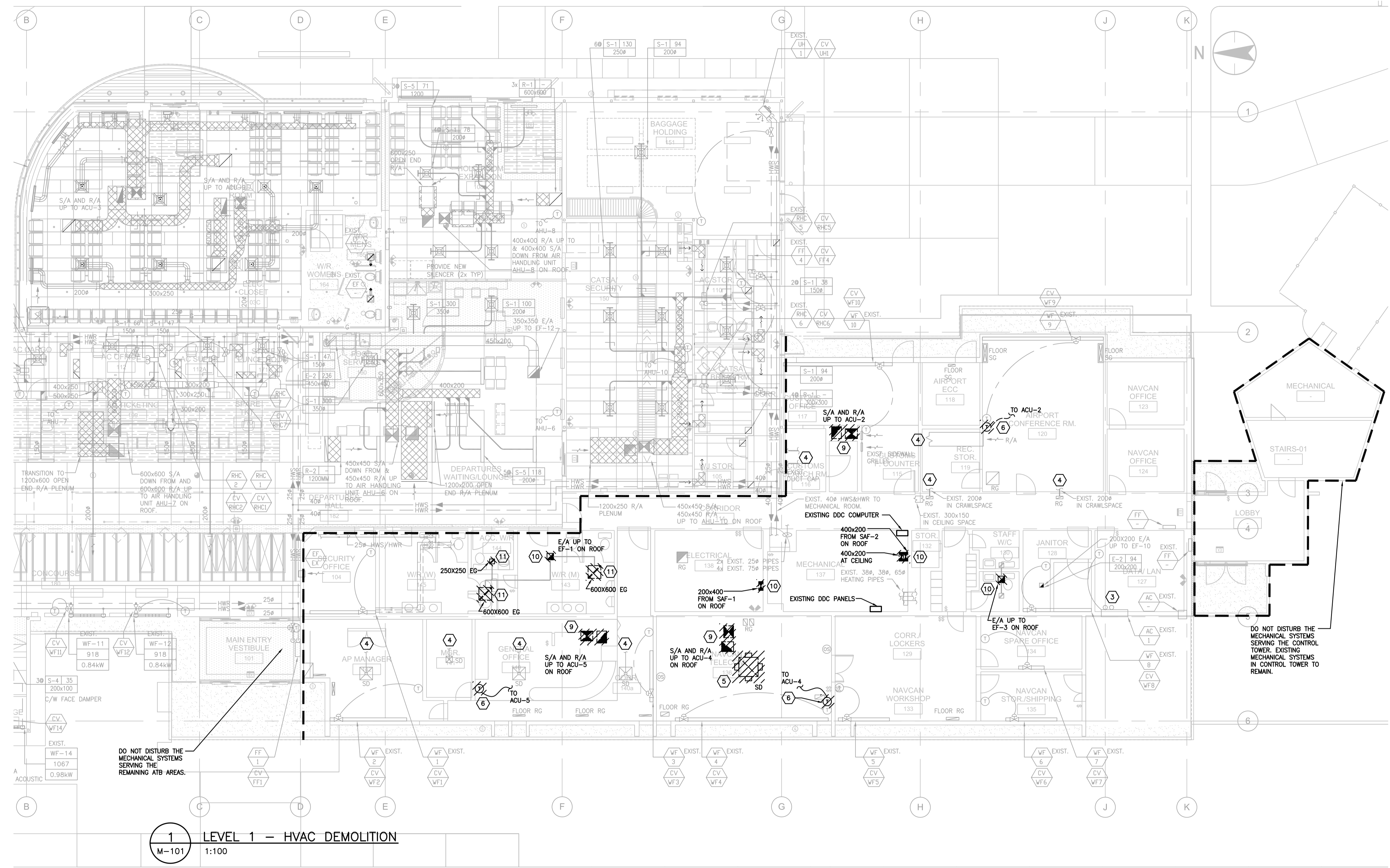
Client/client
TRANSPORT CANADA
800 BURNARD ST
VANCOUVER, B.C.

Project title/Titre du projet
**3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT**

Consultant Signature Only
Designed by/Concept par
LB / WH
Drawn by/Dessiné par
LB / RM
PWSCC Project Manager/Administrateur de Projets TPSCG
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSCG
PREETIPAL PAUL

Drawing title/Titre du dessin
**LEVEL 1
HVAC DEMOLITION**

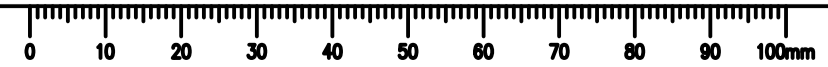
Project No./No. du projet
R.105676.001
Sheet/Fauille
M101
4 OF 8
Revision no./La Révision no.
0



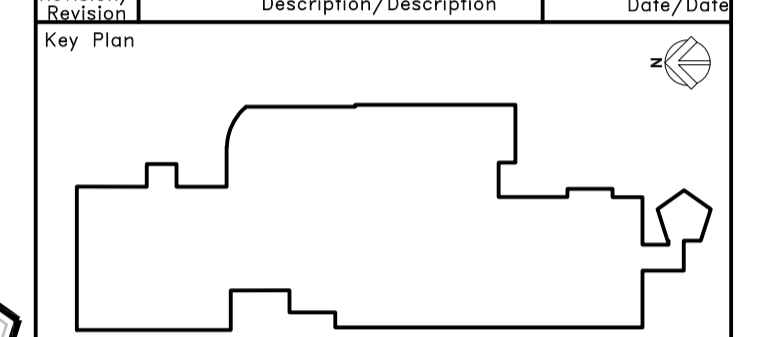
1 LEVEL 1 - HVAC DEMOLITION
M-101 1:100

- SPECIFIC KEY NOTES :**
- 1 EXISTING AHU SYSTEM TO REMAIN. DO NOT DISTURB.
 - 2 EXISTING FAN SYSTEM TO REMAIN. DO NOT DISTURB.
 - 3 EXISTING SPLIT AC-CU SYSTEM TO REMAIN. DO NOT DISTURB.
 - 4 EXISTING BRANCH DUCT CONTINUES TO MAIN DUCT. DO NOT DISTURB.
 - 5 REMOVE AND REINSTATE EXISTING SUPPLY AIR DIFFUSER SYSTEM AS NEEDED TO CONNECT NEW AIR HANDLING UNIT.
 - 6 REMOVE AND REPLACE EXISTING THERMOSTAT WITH NEW.
 - 7 REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED ACU SYSTEM, ROOF CURB, ASSOCIATED DUCT CONNECTIONS AND CONTROLS. ALLOW FOR ROOF DEMOLITION BEYOND THE EQUIPMENT FOOTPRINT.
 - 8 REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED FAN SYSTEM, ASSOCIATED DUCT CONNECTIONS, AND CONTROLS.
 - 9 REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED ACU SYSTEM.
 - 10 REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED FAN SYSTEM.
 - 11 REMOVE AND REPLACE EXISTING EXHAUST GRILLE. CONNECT TO EXISTING DUCT SYSTEM.
 - 12 REMOVE AND REPLACE EXISTING CUSTOM GRAVITY HOOD AS INTEGRAL PART OF SAF-2.

- GENERAL NOTES:**
1. SEE ARCHITECTURAL STRUCTURAL AND ELECTRICAL DRAWINGS FOR SUPPLEMENTAL DETAILS.
 2. DO NOT DISTURB THE MECHANICAL SYSTEMS SERVING THE HOLD ROOM AREA AND CONTROL TOWER. EXISTING MECHANICAL SYSTEMS IN CONTROL TOWER TO REMAIN.
 3. DO NOT DISTURB ADJACENT MECHANICAL SYSTEMS THAT ARE NOT PART OF THIS RENOVATION. THE ADJACENT MECHANICAL SYSTEMS WERE RENOVATED IN YEAR 2020.
 4. DO NOT DISTURB EXISTING ADJACENT ROOF MOUNTED EQUIPMENT, ANTENNAE, LIGHTS, AND AIRPORT EQUIPMENT. PROVIDE PROTECTION.
 5. REMOVE EXISTING ACU SYSTEMS AND FAN SYSTEMS AS NOTED, AND THE ASSOCIATED CONTROLS, DUCTING AND PIPING. EXISTING DDC MAIN PANEL TO REMAIN. REPLACE EXISTING CONTROLLER INTERFACES SERVING EACH OF THE NEW AIR HANDLING UNITS.
 6. PROTECT EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROLS THAT HAVE BEEN DISCONNECTED FROM REMOVED EQUIPMENT.
 7. ENLARGE ROOF OPENINGS AS NEEDED FOR NEW DUCT CONNECTIONS AND CONDUIT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 8. CREATE NEW ROOF OPENINGS AS NEEDED FOR NEW DUCT CONNECTIONS AND CONDUIT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 9. REMOVE AND REPLACE EXISTING ROOF TOP MOUNTED ACU'S AS INDICATED. REMOVE AND REPLACE EXISTING ACU ROOF CURB AND DUCT CONNECTIONS.
 10. REMOVE AND REPLACE APPROXIMATELY 2100MM LENGTH OF S/A AND R/A DUCT CONNECTIONS TO ALLOW A CUSTOM DUCT TRANSITION FROM NEW ROOF TOP AHU'S TO EXISTING DUCT MAINS.
 11. TO MINIMIZE IMPACT TO AIR TERMINAL BUILDING (ATB) OPERATIONS, CLOSELY COORDINATE ALL WORK SCHEDULES WITH THE DEPARTMENTAL REPRESENTATIVE PER SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" AND SECTION 01 35 13 "SPECIAL PROCEDURES FOR AIRPORT FACILITIES".
 12. PROTECT EXISTING DUCT SMOKE DETECTORS FROM DAMAGE.
 13. SEE DRAWING M003 FOR PHOTOS OF EXISTING EQUIPMENT.



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021



Seal

Sub-Consultant



Prime Consultant



RJC Project No.
KEL.021700.0004

Client/client

TRANSPORT CANADA
800 Burrard St
Vancouver, B.C.

Project title/Titre du projet

3000 AIRPORT ROAD
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PENTICTON ATB
ROOF SEISMIC UPGRADE
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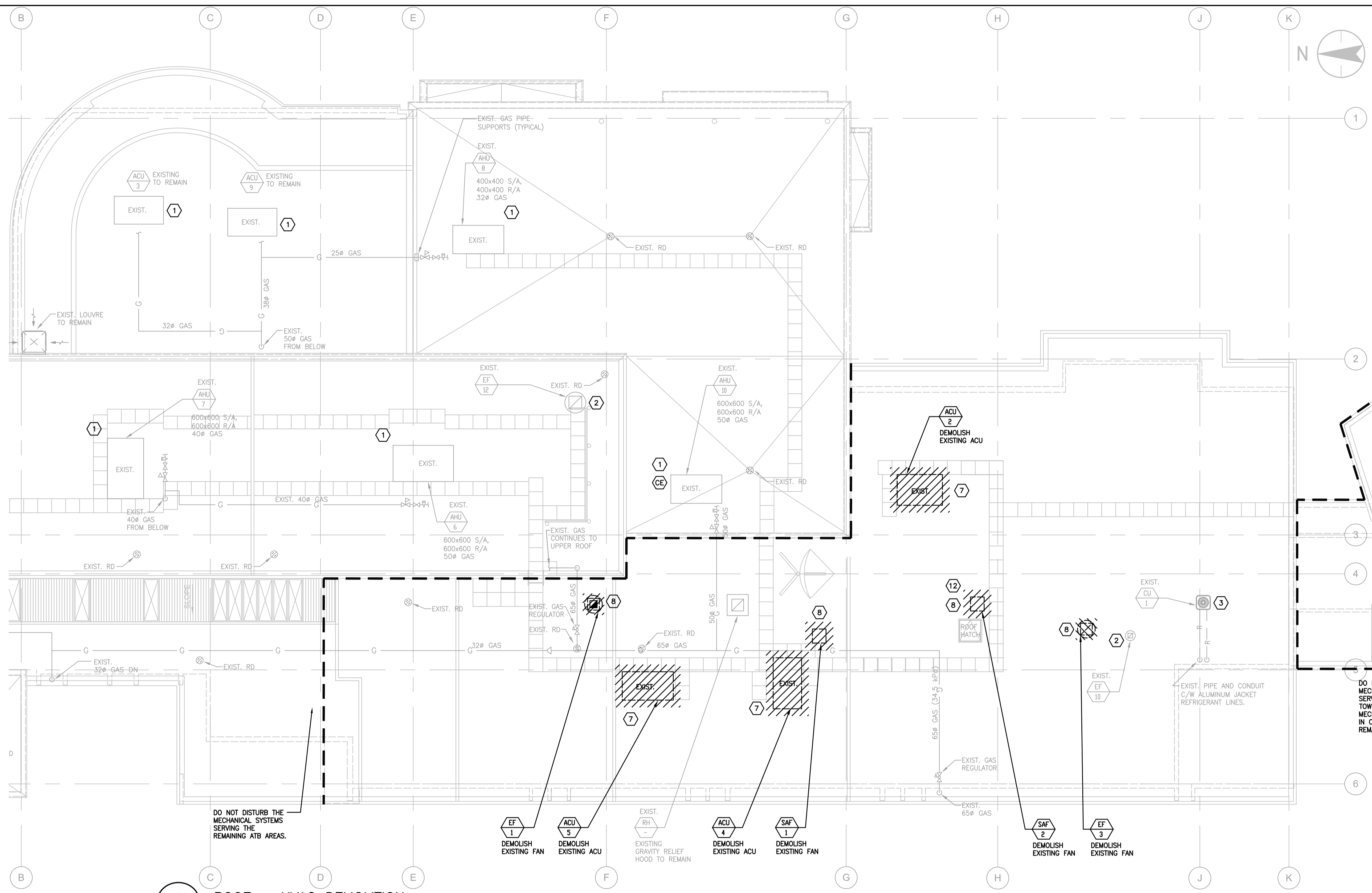
PWSCG Project Manager/Administrateur de Projets TPSCG
JULIAN HO

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCG
PREETIPAL PAUL

Drawing title/Titre du dessin

ROOF
HVAC DEMOLITION

Project No./No. du projet R.105676.001	Sheet/Fauille 5 OF 8	Revision no./Révision no. 0
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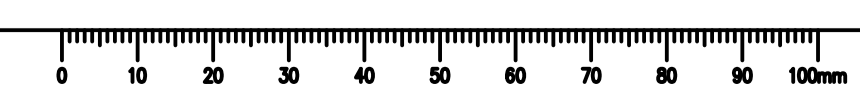
1 ROOF - HVAC DEMOLITION
M-102
1:100

- SPECIFIC KEY NOTES :**
- 1 EXISTING AHU SYSTEM TO REMAIN. DO NOT DISTURB.
 - 2 EXISTING FAN SYSTEM TO REMAIN. DO NOT DISTURB.
 - 3 EXISTING SPLIT AC-CU SYSTEM TO REMAIN. DO NOT DISTURB.
 - 4 EXISTING BRANCH DUCT CONTINUES TO MAIN DUCT. DO NOT DISTURB.
 - 5 REMOVE AND REINSTATE EXISTING SUPPLY AIR DIFFUSER SYSTEM AS NEEDED TO CONNECT NEW AIR HANDLING UNIT.
 - 6 REMOVE AND REPLACE EXISTING THERMOSTAT WITH NEW.
 - 7 REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED ACU SYSTEM, ROOF CURB, ASSOCIATED DUCT CONNECTIONS AND CONTROLS.
 - 8 REMOVE AND REPLACE EXISTING ROOFTOP MOUNTED FAN SYSTEM, ASSOCIATED DUCT CONNECTIONS, AND CONTROLS.
 - 9 REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED ACU SYSTEM.
 - 10 REMOVE AND REPLACE EXISTING DUCT CONNECTIONS TO ROOFTOP MOUNTED FAN SYSTEM.
 - 11 REMOVE AND REPLACE EXISTING EXHAUST GRILLE. CONNECT TO EXISTING DUCT SYSTEM.
 - 12 REMOVE AND REPLACE EXISTING CUSTOM GRAVITY HOOD AS INTEGRAL PART OF SAF-2.

- GENERAL NOTES:**
1. SEE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR SUPPLEMENTAL DETAILS.
 2. DO NOT DISTURB THE MECHANICAL SYSTEMS SERVING THE HOLD ROOM AREA AND CONTROL TOWER. EXISTING MECHANICAL SYSTEMS IN CONTROL TOWER TO REMAIN.
 3. DO NOT DISTURB ADJACENT MECHANICAL SYSTEMS THAT ARE NOT PART OF THIS RENOVATION. THE ADJACENT MECHANICAL SYSTEMS WERE RENOVATED IN YEAR 2020.
 4. DO NOT DISTURB EXISTING ADJACENT ROOF MOUNTED EQUIPMENT, ANTENNAE, LIGHTS, AND AIRPORT EQUIPMENT. PROVIDE PROTECTION.
 5. REMOVE EXISTING ACU SYSTEMS AND FAN SYSTEMS AS NOTED, AND THE ASSOCIATED CONTROLS, DUCTING AND PIPING. EXISTING DOC MAIN PANEL TO REMAIN. REPLACE EXISTING CONTROLLER INTERFACES SERVING EACH OF THE NEW AIR HANDLING UNITS.
 6. PROTECT EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROLS THAT HAVE BEEN DISCONNECTED FROM REMOVED EQUIPMENT.
 7. ENLARGE ROOF OPENINGS AS NEEDED FOR NEW DUCT CONNECTIONS AND CONDUIT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 8. CREATE NEW ROOF OPENINGS AS NEEDED FOR NEW DUCT CONNECTIONS AND CONDUIT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 9. REMOVE AND REPLACE EXISTING ROOF TOP MOUNTED ACU'S AS INDICATED. REMOVE AND REPLACE EXISTING ACU ROOF CURB AND DUCT CONNECTIONS.
 10. REMOVE AND REPLACE APPROXIMATELY 2100MM LENGTH OF S/A AND R/A DUCT CONNECTIONS TO ALLOW A CUSTOM DUCT TRANSITION FROM NEW ROOF TOP AHU'S TO EXISTING DUCT MAINS.
 11. TO MINIMIZE IMPACT TO AIR TERMINAL BUILDING (ATB) OPERATIONS, CLOSELY COORDINATE ALL WORK SCHEDULES WITH THE DEPARTMENTAL REPRESENTATIVE PER SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" AND SECTION 01 35 13 "SPECIAL PROCEDURES FOR AIRPORT FACILITIES".
 12. PROTECT EXISTING DUCT SMOKE DETECTORS FROM DAMAGE.
 13. SEE DRAWING M003 FOR PHOTOS OF EXISTING EQUIPMENT.

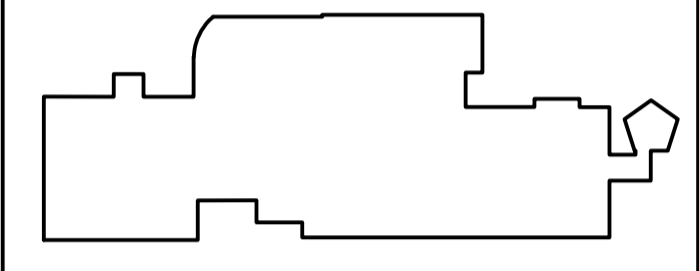
EXISTING AIR CONDITIONING UNITS SCHEDULE						
EXISTING UNIT TAG	SERVICE	MAKE	MODEL	ELECTRICAL	HEATING TYPE	NOTES
ACU-2	ADMIN. EAST WING	LENNOX	CHA16-653-1Y	208/3/60	ELECTRIC COIL	REMOVE AND REPLACE
ACU-4	ADMIN. WEST WING NAVCAN ITC EQUIP. RM.	LENNOX	CHA16-413-1Y	208/3/60	-	REMOVE AND REPLACE
ACU-5	ADMIN. WEST WING MANAGER'S OFFICE	LENNOX	CHA16-653-1Y	208/3/60	ELECTRIC COIL	REMOVE AND REPLACE

EXISTING FAN SCHEDULE						
TAG	SERVICE	MAKE	MODEL	ELECTRICAL	TYPE	NOTES
SF-1	ELECTRICAL ROOM	-	-	-	BELT DRIVE	REMOVE AND REPLACE
SF-2	MECHANICAL ROOM	-	-	-	BELT DRIVE	REMOVE AND REPLACE
EF-1	TERMINAL WASHROOMS	ACME	CENTRIMASTER PNN200H	208/1/60 (0.75HP)	BELT DRIVE	REMOVE AND REPLACE
EF-3	NAVCAN WASHROOMS	PENN	DOMEX XR-82	115/1/60 (FRAC)	BELT DRIVE	REMOVE AND REPLACE



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021

Key Plan



Seal



Sub-Consultant



Prime Consultant



RJC Project No.
KEL.021700.0004

Client/client

TRANSPORT CANADA

800 BURNARD ST
VANCOUVER, B.C.

Project title/Titre du projet

3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT

PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

Consultant Signature Only

Designed by/Concept par

LB / WH

Drawn by/Dessiné par

LB / RM

PWSSC Project Manager/Administrateur de Projets TPSSC

JULIAN HO

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSSC
PREETPAL PAUL

Drawing title/Titre du dessin

LEVEL 1
HVAC NEW

Project No./No. du projet

R.105676.001

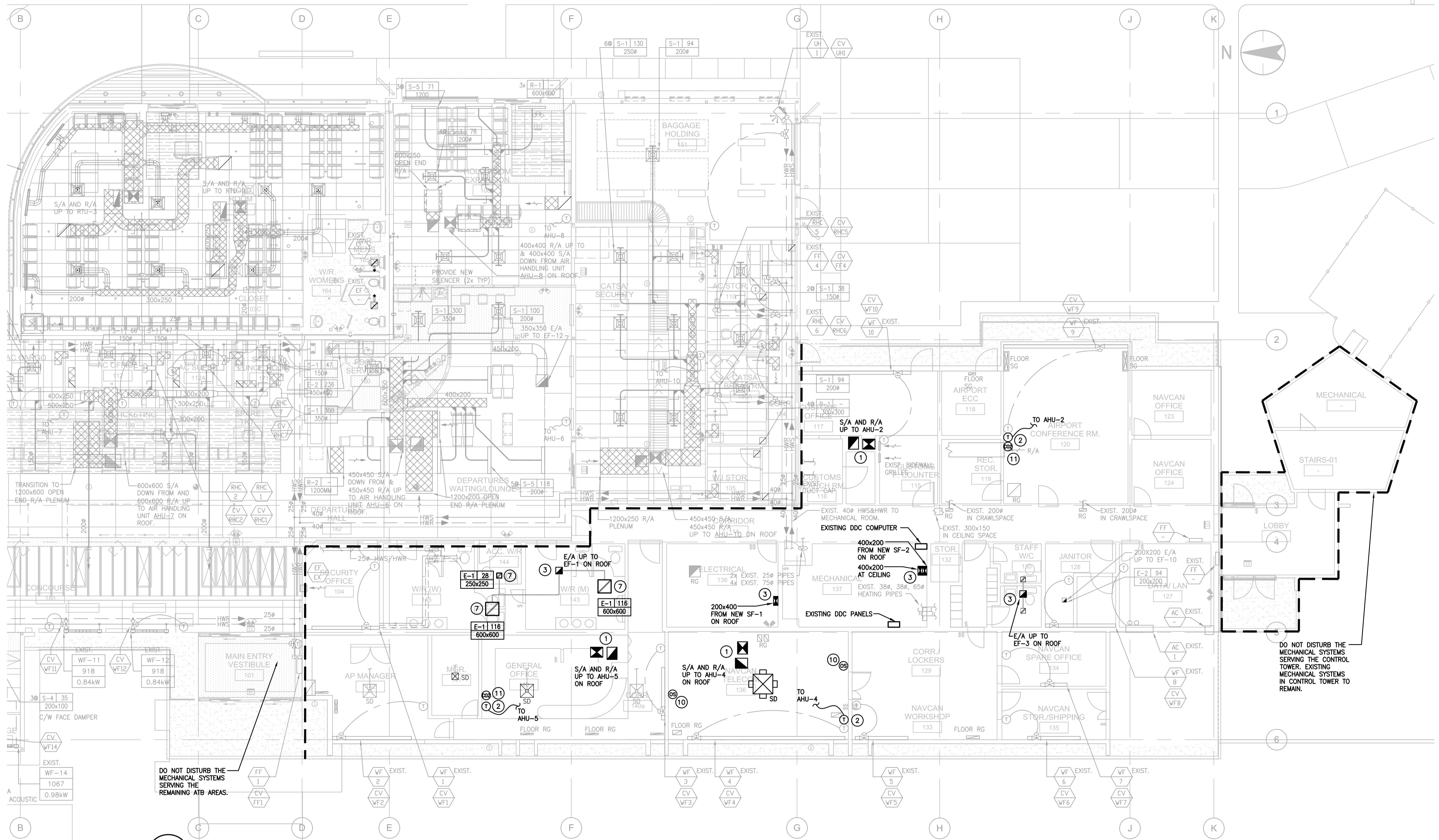
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M201

6 OF 8

Revision no./La Révision no.

0



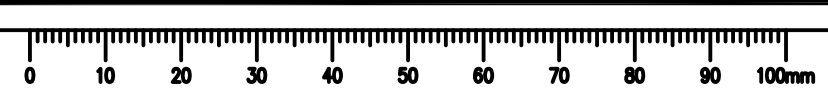
1 LEVEL 1 -- HVAC NEW
M-201 1:100

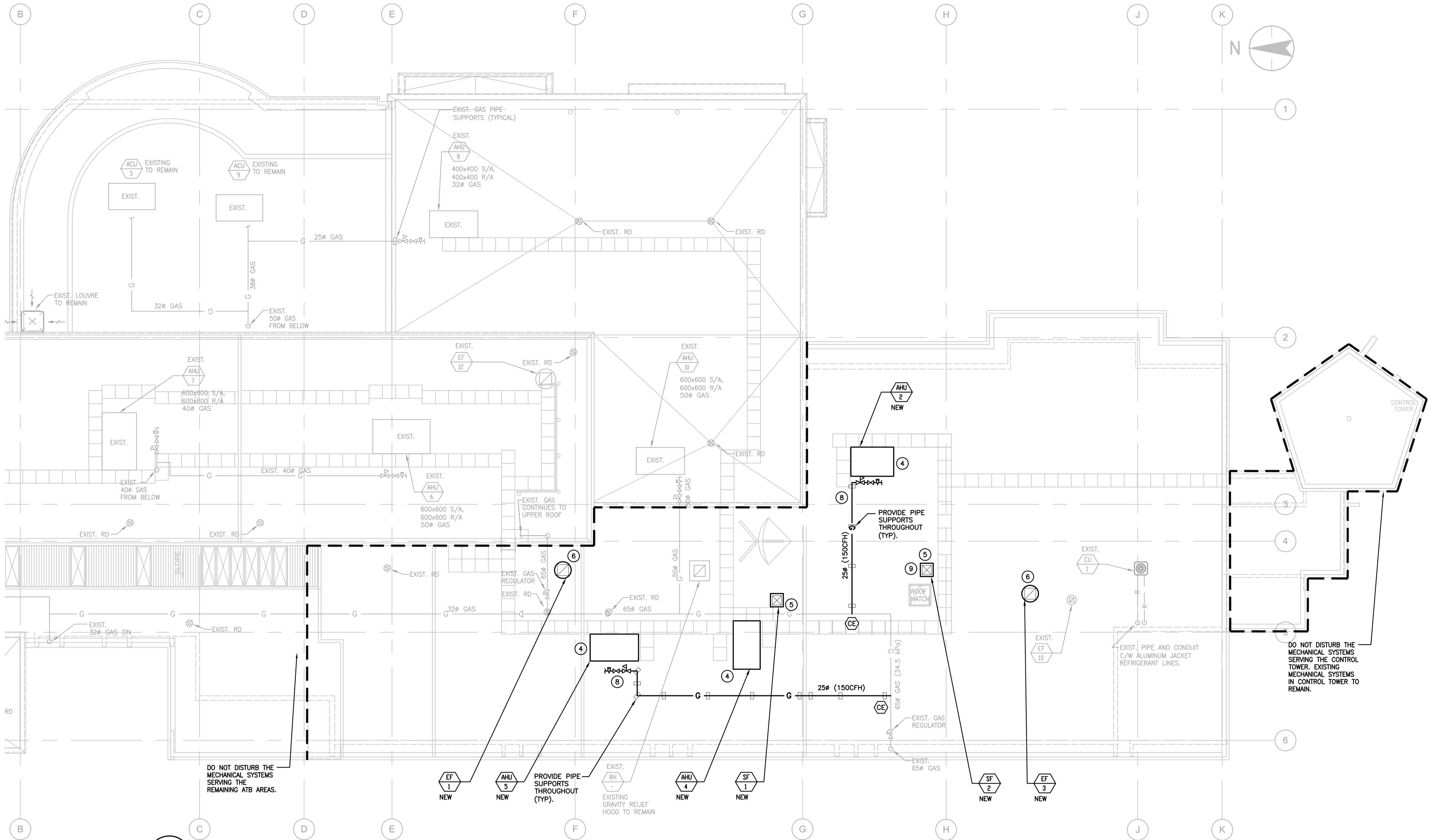
GENERAL NOTES:

- REFER TO DRAWINGS M101 AND M102 FOR MECHANICAL DEMOLITION WORK.
- PROVIDE AIR HANDLING UNITS ON ROOF C/W NEW SEISMIC ROOF CURB, PACKAGED CONTROLS, AND THERMOSTAT. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL AND STRUCTURAL. OUTDOOR AIR INTAKES SHALL BE A MINIMUM 4000MM FROM EXHAUST FAN DISCHARGE. PROVIDE DUCTED OUTDOOR AIR PLENUM IF REQUIRED TO MEET 4000MM SEPARATION DISTANCE.
- PROVIDE NEW SUPPLY AND EXHAUST FANS C/W CONTROLS, AND BIRD SCREENS.
- TEMPORARILY DISCONNECT CONTROLS (BMS) AND RECONNECT TO NEW EQUIPMENT.
- CONNECT NEW HVAC EQUIPMENT TO DDC SYSTEM. UPDATE GRAPHICS AND SEQUENCE OF OPERATIONS. RELABEL ALL POINTS TO MATCH NEW EQUIPMENT NUMBERING.
- BALANCE ALL AIR OUTLETS SERVED BY EACH RESPECTIVE AIR SYSTEM. SEE DRAWING M002 FOR SUPPLEMENTAL REQUIREMENTS AND ZONE BOUNDARIES.
- PROVIDE ALL DUCT TRANSITIONS AS REQUIRED TO CONNECT THE NEW ROOF MOUNTED AHU'S AND FANS TO THE EXISTING DUCTWORK BELOW. ALIGN NEW AHU S/A AND R/A WITH EXISTING S/A AND R/A DUCTWORK IN CEILING SPACE, AND CONNECT WITH CUSTOM DUCT TRANSITIONS. CONFIRM ROOF CURB HEIGHT AND SITE CONDITIONS PRIOR TO ORDERING UNITS.
- PROVIDE ALL DUCT TRANSITIONS AS REQUIRED FOR INSTALLATION AROUND EXISTING STRUCTURE, SERVICES, PIPING, SPRINKLERS, LIGHTING AND ELECTRICAL HARDWARE (TYPICAL).
- PROVIDE THERMAL INSULATION TO NEW S/A AND R/A DUCTWORK. PROVIDE ACOUSTIC DUCT LINER IN NEW CUSTOM DUCT TRANSITIONS AND WHERE INDICATED.
- PROVIDE ALL PIPE TRANSITIONS AS REQUIRED TO CONNECT THE NEW ROOF MOUNTED AHU'S TO THE EXISTING GAS PIPING. THE EXISTING ROOF HAS PARAPETS, WALKWAYS, AND OTHER EQUIPMENT.
- PROVIDE PIPE SUPPORTS, ROOFTOP SLEEPERS ON ALL NEW PIPING ON ROOF EVERY 1800MM MAXIMUM, AND ON EACH END OF A PIPE JOINT, PER CSA-B149.1. AVOID CREATING NEW TRIPPING HAZARDS AROUND MAINTENANCE PATHWAY.
- PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT. ALL NEW ROOF CURBS SHALL BE SEISMICALLY RATED.
- PATCH AND MAKE GOOD ROOF, WALLS, CEILINGS AND FLOORS DAMAGED BY MECHANICAL WORK.
- TO MINIMIZE IMPACT TO AIR TERMINAL BUILDING (ATB) OPERATIONS, CLOSELY COORDINATE ALL WORK SCHEDULES WITH THE DEPARTMENTAL REPRESENTATIVE PER SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" AND SECTION 01 35 13 "SPECIAL PROCEDURES FOR AIRPORT FACILITIES".
- PROTECT EXISTING DUCT SMOKE DETECTORS FROM DAMAGE.
- DO NOT DISTURB EXISTING ADJACENT ROOF MOUNTED EQUIPMENT, ANTENNAE, LIGHTS, AND AIRPORT EQUIPMENT. PROVIDE PROTECTION.
- PROVIDE RIGID CONDUIT FOR ALL SURFACE MOUNT CONTROL WIRING.

SPECIFIC KEY NOTES:

- COORDINATE EXISTING SUPPLY AND RETURN DUCTWORK THROUGH ROOF WITH NEW ROOF TOP MOUNTED AHU LOCATION. PROVIDE NEW TRANSITION INSIDE ROOF CURB. CONFIRM ROOF CURB HEIGHT AND SITE CONDITION PRIOR TO ORDERING UNITS. ALLOW UP TO 3000MM OF S/A AND R/A DUCT REPLACEMENT C/W 25MM ACOUSTIC INSULATION ON INITIAL 3000MM OF DUCTING FROM UNIT.
- PROVIDE NEW THERMOSTAT, CONNECT TO DDC.
- PROVIDE NEW DUCT CONNECTION TO FAN ON ROOF.
- RE-AND-RE ROOF TOP MOUNTED AIR HANDLING UNIT C/W SEISMIC ROOF CURB. COORDINATE WITH CONSTRUCTION MANAGER TO SITE MEASURE AND FABRICATE SEISMIC ROOF CURB FOR INSTALLATION TO EXISTING ROOF AND ROOF CURB OPENING. PROVIDE NECESSARY TRANSITIONS TO INTEGRATE NEW AHU TO SUIT EXISTING SITE CONDITIONS. COORDINATE WITH CONSTRUCTION MANAGER TO CONFIRM AND COORDINATE ALL STRUCTURAL, ELECTRICAL AND ARCHITECTURAL REQUIREMENTS. COORDINATE AND INTERFACE NEW ACU CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS). RE-LABEL THE UNIT TO "AHU-2, OR AHU-4, OR AHU-5" RESPECTIVELY.
- PROVIDE NEW ROOF TOP MOUNTED SUPPLY AIR FAN C/W SEISMIC ROOF CURB. COORDINATE WITH CONSTRUCTION MANAGER TO SITE MEASURE AND FABRICATE SEISMIC ROOF CURB FOR INSTALLATION TO EXISTING ROOF AND ROOF CURB OPENING. PROVIDE NECESSARY TRANSITIONS TO INTEGRATE NEW FAN TO SUIT EXISTING SITE CONDITIONS. ROTATE EQUIPMENT TO ALLOW OUTDOOR INTAKES TO FACE AWAY FROM EXHAUST AIR AND FLUE DISCHARGES. COORDINATE WITH CONSTRUCTION MANAGER TO CONFIRM AND COORDINATE ALL STRUCTURAL, ELECTRICAL AND ARCHITECTURAL REQUIREMENTS. COORDINATE AND INTERFACE NEW FAN CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS). PROVIDE FILTER BANK, AND BIRD SCREEN. RE-LABEL THE UNIT TO "SF-1, OR SF-2" RESPECTIVELY.
- PROVIDE NEW ROOFTOP MOUNTED EXHAUST AIR FAN C/W ROOF CURB ADAPTOR, CONTROLS, AND BIRD SCREEN. COORDINATE AND INTERFACE NEW FAN CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS).
- PROVIDE NEW EXHAUST AIR GRILLE. CONNECT TO EXISTING DUCT SYSTEM.
- PROVIDE NEW GAS PIPING C/W NEW TRIMS AND ACCESSORIES AND ISOLATION VALVE TO THE NEW UNIT. (IE. UNIONS, DIRT LEG, FLEXIBLE CONNECTOR, PRV, ISOLATION VALVE, REGULATOR). COORDINATE AND INTERFACE NEW AHU CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS). PAINT NEW GAS PIPES YELLOW.
- REMOVE AND REPLACE EXISTING CUSTOM ROOFTOP MOUNTED GRAVITY HOOD, AS INTEGRAL PART OF THE SUPPLY FAN. REPLACE WITH SIMILAR C/W BIRD SCREEN, LOUVRE. COORDINATE PLACEMENT WITH FAN AND NEW ROOF CURB. PROVIDE CUSTOM CONFIGURATION TO MATCH EXISTING.
- PROVIDE NEW OCCUPANCY SENSOR, CONNECT TO DDC. ADJUST SENSITIVITY SETTINGS TO MATCH ROOM SIZE.
- PROVIDE NEW CO2 SENSOR, CONNECT TO DDC.





1 ROOF - HVAC NEW
M-202 1:100

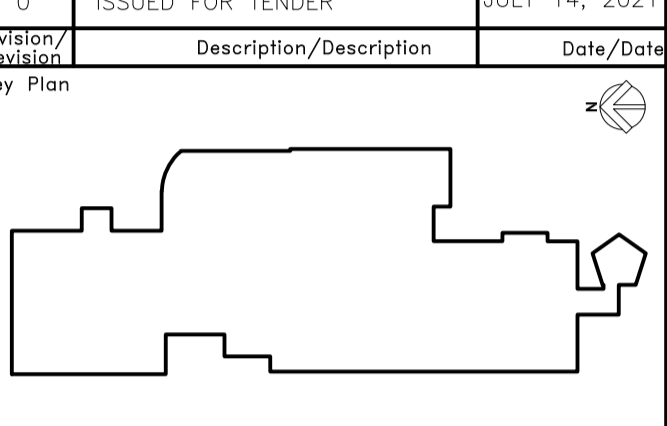
GENERAL NOTES:

- REFER TO DRAWINGS M101 AND M102 FOR MECHANICAL DEMOLITION WORK.
- PROVIDE AIR HANDLING UNITS ON ROOF C/W NEW SEISMIC ROOF CURB, PACKAGED CONTROLS, AND THERMOSTAT. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL AND STRUCTURAL. OUTDOOR AIR INTAKES SHALL BE A MINIMUM 400MM FROM EXHAUST FAN DISCHARGE. PROVIDE DUCTED OUTDOOR AIR PLENUM IF REQUIRED TO MEET 400MM SEPARATION DISTANCE.
- PROVIDE NEW SUPPLY AND EXHAUST FANS C/W CONTROLS, AND BIRD SCREENS.
- TEMPORARILY DISCONNECT CONTROLS (BMS) AND RECONNECT TO NEW EQUIPMENT.
- CONNECT NEW HVAC EQUIPMENT TO DDC SYSTEM, UPDATE GRAPHICS AND SEQUENCE OF OPERATIONS. RELABEL ALL POINTS TO MATCH NEW EQUIPMENT NUMBERING.
- BALANCE ALL AIR OUTLETS SERVED BY EACH RESPECTIVE AIR SYSTEM. SEE DRAWING M002 FOR SUPPLEMENTAL REQUIREMENTS AND ZONE BOUNDARIES.
- PROVIDE ALL DUCT TRANSITIONS AS REQUIRED TO CONNECT THE NEW ROOF MOUNTED AHU'S AND FANS TO THE EXISTING DUCTWORK BELOW. ALIGN NEW AHU S/A AND R/A WITH EXISTING S/A AND R/A DUCTWORK IN CEILING SPACE, AND CONNECT WITH CUSTOM DUCT TRANSITIONS. CONFIRM ROOF CURB HEIGHT AND SITE CONDITIONS PRIOR TO ORDERING UNITS.
- PROVIDE ALL DUCT TRANSITIONS AS REQUIRED FOR INSTALLATION AROUND EXISTING STRUCTURE, SERVICES, PIPING, SPRINKLERS, LIGHTING AND ELECTRICAL HARDWARE (TYPICAL).
- PROVIDE THERMAL INSULATION TO NEW S/A AND R/A DUCTWORK. PROVIDE ACOUSTIC DUCT LINER IN NEW CUSTOM DUCT TRANSITIONS AND WHERE INDICATED.
- PROVIDE ALL PIPE TRANSITIONS AS REQUIRED TO CONNECT THE NEW ROOF MOUNTED AHU'S TO THE EXISTING GAS PIPING. THE EXISTING ROOF HAS PARAPETS, WALKWAYS, AND OTHER EQUIPMENT.
- PROVIDE PIPE SUPPORTS, ROOFTOP SLEEPERS ON ALL NEW PIPING ON ROOF EVERY 1800MM MAXIMUM, AND ON EACH END OF A PIPE JOINT, PER CSA-B149.1. AVOID CREATING NEW TRIPPING HAZARDS ALONG MAINTENANCE PATHWAY.
- PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT. ALL NEW ROOF CURBS SHALL BE SEISMICALLY RATED.
- PATCH AND MAKE GOOD ROOF, WALLS, CEILINGS AND FLOORS DAMAGED BY MECHANICAL WORK.
- MINIMIZE IMPACT TO AIR TERMINAL BUILDING (ATB) OPERATIONS, CLOSELY COORDINATE ALL WORK SCHEDULES WITH THE DEPARTMENTAL REPRESENTATIVE PER SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" AND SECTION 01 35 13 "SPECIAL PROCEDURES FOR AIRPORT FACILITIES".
- PROTECT EXISTING DUCT SMOKE DETECTORS FROM DAMAGE.
- DO NOT DISTURB EXISTING ADJACENT ROOF MOUNTED EQUIPMENT, ANTENNAE, LIGHTS, AND AIRPORT EQUIPMENT. PROVIDE PROTECTION.
- PROVIDE RIGID CONDUIT FOR ALL SURFACE MOUNT CONTROL WIRING.

SPECIFIC KEY NOTES :

- COORDINATE EXISTING SUPPLY AND RETURN DUCTWORK THROUGH ROOF WITH NEW ROOF TOP MOUNTED AHU LOCATION. PROVIDE NEW TRANSITION INSIDE ROOF CURB. CONFIRM ROOF CURB HEIGHT AND SITE CONDITION PRIOR TO ORDERING UNITS. ALLOW UP TO 3000MM OF S/A AND R/A DUCT REPLACEMENT C/W 25MM ACOUSTIC INSULATION ON INITIAL 3000MM OF DUCTING FROM UNIT.
- PROVIDE NEW THERMOSTAT, CONNECT TO DDC.
- PROVIDE NEW DUCT CONNECTION TO FAN ON ROOF.
- RE-AND-RE ROOF TOP MOUNTED AIR HANDLING UNIT C/W SEISMIC ROOF CURB. COORDINATE WITH CONSTRUCTION MANAGER TO SITE MEASURE AND FABRICATE SEISMIC ROOF CURB FOR INSTALLATION TO EXISTING ROOF AND ROOF CURB OPENING. PROVIDE NECESSARY TRANSITIONS TO INTEGRATE NEW AHU TO SUIT EXISTING SITE CONDITIONS. COORDINATE WITH CONSTRUCTION MANAGER TO CONFIRM AND COORDINATE ALL STRUCTURAL, ELECTRICAL AND ARCHITECTURAL REQUIREMENTS. COORDINATE AND INTERFACE NEW ACU CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS). RE-LABEL THE UNIT TO "AHU-2, OR AHU-4, OR AHU-5" RESPECTIVELY.
- PROVIDE NEW ROOF TOP MOUNTED SUPPLY AIR FAN C/W SEISMIC ROOF CURB. COORDINATE WITH CONSTRUCTION MANAGER TO SITE MEASURE AND FABRICATE SEISMIC ROOF CURB FOR INSTALLATION TO EXISTING ROOF AND ROOF CURB OPENING. PROVIDE NECESSARY TRANSITIONS TO INTEGRATE NEW FAN TO SUIT EXISTING SITE CONDITIONS. ROTATE EQUIPMENT TO ALLOW OUTDOOR INTAKES TO FACE AWAY FROM EXHAUST AIR AND FLUE DISCHARGES. COORDINATE WITH CONSTRUCTION MANAGER TO CONFIRM AND COORDINATE ALL STRUCTURAL, ELECTRICAL AND ARCHITECTURAL REQUIREMENTS. COORDINATE AND INTERFACE NEW FAN CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS). PROVIDE FILTER BANK, AND BIRD SCREEN. RE-LABEL THE UNIT TO "SF-1, OR SF-2" RESPECTIVELY.
- PROVIDE NEW ROOFTOP MOUNTED EXHAUST AIR FAN C/W ROOF CURB ADAPTOR, CONTROLS, AND BIRD SCREEN, COORDINATE AND INTERFACE NEW FAN CONTROLS WITH CONTROLS SUBCONTRACTOR FOR FULL COMMUNICATION INTERFACE WITH EXISTING BUILDING MANAGEMENT SYSTEM (BMS).
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- PROVIDE NEW CO2 SENSOR, CONNECT TO DDC.

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021



Prime Consultant
rjc Engineers
 RJC Project No. KEL.021700.0004

Client/client
TRANSPORT CANADA
 800 BARRARD ST VANCOUVER, B.C.

Project title/Titre du projet
 3000 AIRPORT ROAD PENTICTON, BC
 PENTICTON REGIONAL AIRPORT
 PENTICTON ATB ROOF SEISMIC UPGRADE ROOFING & BUILDING ENVELOPE PROJECT

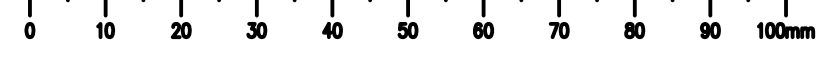
Designed by/Concept par
 LB / WH
 Drawn by/Dessine par
 LB / RM
 PWSC Project Manager/Administrateur de Projets TPSC
 JULIAN HO
 Regional Manager, Architectural and Engineering Services
 Gestionnaire régionale, Services d'architectural et de génie, TPSC
 PREETIPAL PAUL

Drawing title/Titre du dessin
ROOF HVAC NEW

Project No./No. du projet
 R.105676.001

Sheet/Fauille
M202
 7 OF 8

Revision no./La Révision no.
 0



AIR HANDLING UNITS SCHEDULE																													
EXISTING UNIT TAG	NEW UNIT TAG	SERVICE	TYPE	LOCATION	SUPPLY AIR FLOW L/S	AHU EXT. S.P. Pa	NOMINAL COOLING CAPACITY		NATURAL GAS HEATING		REFRIG.	IEER	EER	S/A FAN MOTOR HP	E/A FAN MOTOR HP	FAN DRIVE	ELECTRICAL			FILTERS		WEIGHT KG	PHYSICAL DIMENSIONS			BASIS OF DESIGN		NOTES	ACCEPTABLE ALTERNATES
							(Tons)	KW	INPUT KW	OUTPUT KW							VOLT/PH/HZ	MCA	MOP	QTY	SIZE		LENGTH MM	WIDTH MM	TOTAL HEIGHT W/ ROOF CURB (RTU + CURB) MM	MAKE	MODEL		
ACU-2	AHU-2	ADMIN. EAST WING	AIR SOURCE HEAT PUMP, DOWN FLOW, NATURAL GAS HEAT	ROOF TOP	850 S/A [128 O/A]	175	5.0	18.8	44.0	35.6	R410A	16.0	13.0	5.3	0.40	DIRECT DRIVE	208/3/60	32	45	4	400X625X50	571	2300	1400	1000 + 300	TRANE	DHC060H3RMA DDE0A1A6	1,2,3,4,5,6,7,8	LENNOX, CARRIER
ACU-4	AHU-4	ADMIN. WEST WING NAVCAN IT EQUIP. RM.	AIR SOURCE HEAT PUMP, DOWN FLOW	ROOF TOP	519 [78 O/A]	175	3.0	11.3	NONE	NONE	R410A	16.0	12.5	5.3	0.40	DIRECT DRIVE	208/3/60	27	40	2	500X875X50	415	1800	1100	1000 + 300	TRANE	DHC036H3RMB DDE0A1A6	1,2,3,4,5,6,7,8	LENNOX, CARRIER
ACU-5	AHU-5	ADMIN. WEST WING MANAGERS OFFICE	AIR SOURCE HEAT PUMP, DOWN FLOW, NATURAL GAS HEAT	ROOF TOP	850 [128 O/A]	175	5.0	18.8	44.0	35.6	R410A	16.0	13.0	5.3	0.40	DIRECT DRIVE	208/3/60	32	45	4	400X625X50	571	2300	1400	1000 + 300	TRANE	DHC060H3RMA DDE0A1A6	1,2,3,4,5,6,8	LENNOX, CARRIER

NOTES:
1. REFER TO SPECIFICATIONS SECTION 23 74 00 PACKAGED OUTDOOR HVAC EQUIPMENT.
2. PROVIDE SEISMICALLY RATED UNIT C/W PREFABRICATED ROOF-CURB 300MM HIGH.
3. C/W STARTER AND LOCAL DISCONNECT, AND THROUGH THE BASE ELECTRICAL ACCESS.
4. C/W PACKAGED CONTROLS, BACNET LISTED (BTL).
5. C/W ECONOMIZER, ECONOMIZER HOOD.
6. C/W HINGED 50MM PLEATED MERV-8 FILTERS.
7. C/W 5-20R GFCI RECEPTACLE WITH WHILE-IN-USE WEATHERPROOF BOX (AHU-2, AHU-4).
8. C/W LOW-AMBIENT KIT.

FAN SCHEDULE															
EXISTING UNIT TAG	NEW UNIT TAG	SERVICE	TYPE	AIR FLOW L/S	EXT. STATIC PRESSURE Pa	ELECTRICAL (V/PH/HZ)	BLOWER MOTOR HP	AMPERAGE FLA	MOTOR RPM	MOTOR DRIVE	SOUND SONES	NOTES	BASIS OF DESIGN		ACCEPTABLE MATERIALS
													MAKE	MODEL	
SAF-1	SF-1	ELECTRICAL ROOM	ROOF MOUNTED INLINE	260	125	115/1/60	0.5	-	607	DIRECT	9.9	1,2,4,5,6,7	DELHI	SIS 12DD050EC	PENNBARRY, GREENHECK
SAF-2	SF-2	MECHANICAL ROOM	ROOF MOUNTED INLINE	260	125	115/1/60	0.5	-	607	DIRECT	9.9	1,2,4,5,6,7,8	DELHI	SIS 12DD050EC	PENNBARRY, GREENHECK
EF-1	EF-1	TERMINAL WASHROOMS	ROOF MOUNTED DOWNBLAST	260	125	115/1/60	FRAC.	1.5	1725	DIRECT	8.1	1,3,4,5,6	GREENHECK	G-090-VG	PENNBARRY, DELHI
EF-3	EF-3	NAVCAN WASHROOMS	ROOF MOUNTED DOWNBLAST	57	125	115/1/60	FRAC.	2.9	1725	DIRECT	5.0	1,3,4,5,6	GREENHECK	G-097-VG	PENNBARRY, DELHI

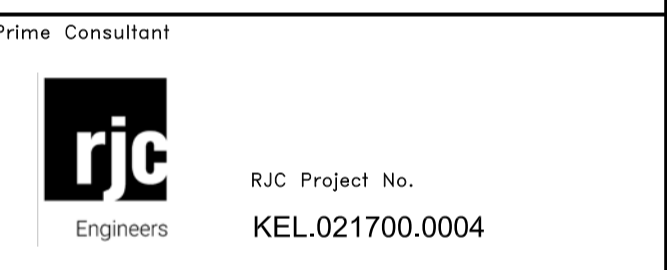
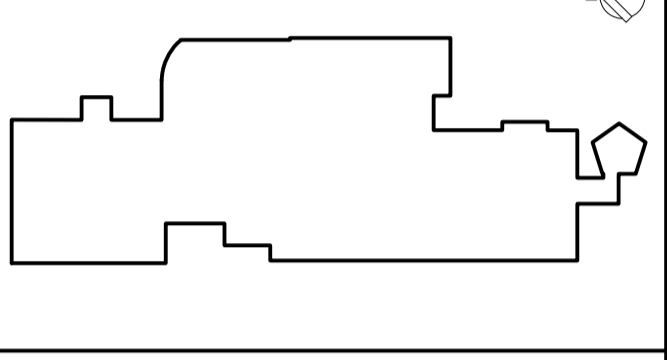
NOTES:
1. REFER TO SPECIFICATIONS SECTION 23 34 00 HVAC FANS.
2. PROVIDE SEISMICALLY RATED UNIT C/W PREFABRICATED ROOF-CURB 300MM HIGH, W/ 25MM INSULATION.
3. PROVIDE SEISMICALLY RATED UNIT C/W ROOF CURB ADAPTOR W/ 25MM INSULATION. UTILIZE EXISTING FAN CURB.
4. C/W UL/ULC OR ETL LISTED MOTOR, EC MOTOR.
5. C/W BIRD-SCREEN MESH.
6. C/W BACKDRAFT DAMPER.
7. C/W INTAKE SCREEN, FILTER BANKS, AND 25MM PLEATED MERV-8 FILTERS.
8. C/W GRAVITY HOOD ASSEMBLY, INSTALLED BELOW FAN. MATCH EXISTING CONFIGURATION.

DIFFUSER, GRILLE, REGISTER, LOUVRE SCHEDULE						
UNIT NO.	TYPE	MANUFACTURER	MODEL	FACE DIMENSION	NOTES	ACCEPTABLE MATERIALS
E-1	EGG CRATE GRILLE	E.H. PRICE	80 / B12	SEE DRAWINGS	1,2,3	NAILOR, TITUS

NOTES:
1. ALUMINUM CONSTRUCTION: 13MMx13MMx13MM GRID ALUMINUM CORE, EXTRUDED ALUMINUM BORDER.
2. BAKED POWDER COAT FINISH, WHITE.
3. CEILING MOUNT, COUNTERSUNK SCREW HOLES.

0	ISSUED FOR TENDER	JULY 14, 2021
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Revision/Revisión	Description/Description	Date/Date
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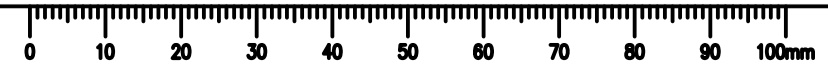
Client/client
TRANSPORT CANADA
800 BARRARD ST
VANCOUVER, B.C.

Project title/Titre du projet
3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

Designed by/Concept par
LB / WH
Drawn by/Dessine par
LB / RM
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
MECHANICAL EQUIPMENT SCHEDULES

Project No./No. du projet R.105676.001	Sheet/Feuille M601 8 OF 8	Revision no./La Révision no. 0
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ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS AND THE C.E.C.
- THE CEILING SPACE ABOVE THE CORRIDOR IS OF LIMITED SPACE AND CONTAINS A LOT OF BX CABLE THAT HAS BEEN INSTALLED IN AN AD HOC MANNER. BX WILL BE ALLOWED IN CEILING DUE TO THE CONSTRAINTS, HOWEVER, CONTRACTOR IS TO INSTALL WIRING IN SUCH A WAY AS TO PRESERVE SPACE FOR FUTURE USE. TRANSITION TO EMT CONDUIT FOR VERTICAL SURFACE RUNS.
- ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
- ALL CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.
- COORDINATE MOUNTING HEIGHTS TO MATCH EXISTING.
- THE ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES AND ALL OTHER PENETRATIONS MADE BY THE ELECTRICAL CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LISTED IN ULC-FS, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.
- ALL WIRING SHALL BE COPPER, MINIMUM #12 AWG.
- ALL CONDUIT WORK AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUCTOR SIZE FOR BRANCH CIRCUITS (120/208V) 75 FEET IN LENGTH FROM BRANCH CIRCUIT PANEL TO CENTER OF LOAD, NOT SMALLER THAN No.12, UP TO 150 FEET NOT SMALLER THAN No.10, UP TO 200 FEET NOT SMALLER THAN No.8, CONDUCTOR SIZE FOR BRANCH CIRCUITS (347/600V) NOT SMALLER THAN No.12, UP TO 300 FEET NOT SMALLER THAN No. 10, UP TO 400 FEET NOT SMALLER THAN No.8.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A KROY "DURATAPE" TYPE 200 LABEL ON ALL JUNCTION BOXES TO IDENTIFY PANEL AND ALL CIRCUIT NUMBERS WITHIN JUNCTION BOX. LABEL SHALL BE 19mm BLACK LETTERING ON CLEAR TAPE.
- PROVIDE LABELS FOR ALL EQUIPMENT, SWITCHES, RECEPTACLES AND FEEDERS C/W PANEL FEED AND CIRCUIT NUMBERS.
- PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE, CIRCUIT NUMBERS.
- ELECTRICAL CONTRACTOR TO PROVIDE IMPACT NOTICE TO PLANT SERVICES IN ADVANCE OF EQUIPMENT SHUTDOWN. COORDINATE SERVICE OUTAGE WITH PLANT SERVICES AND GENERAL CONTRACTOR.
- REFER TO SPECIFICATIONS FOR PHASING REQUIREMENTS.

GENERAL ELECTRICAL DEMOLITION NOTES:

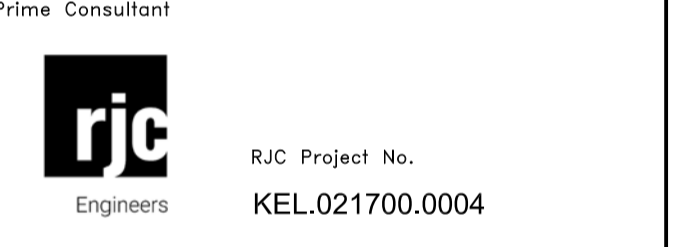
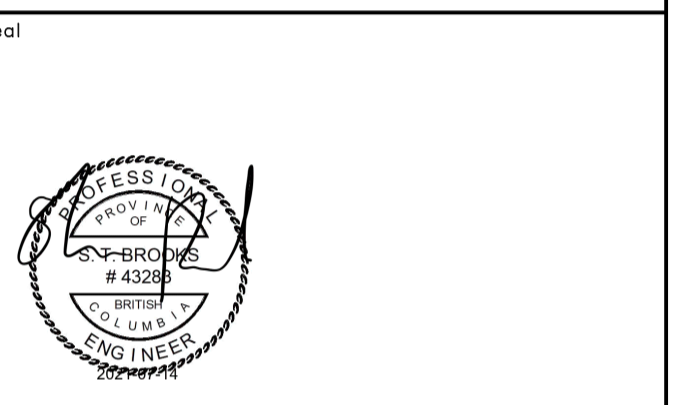
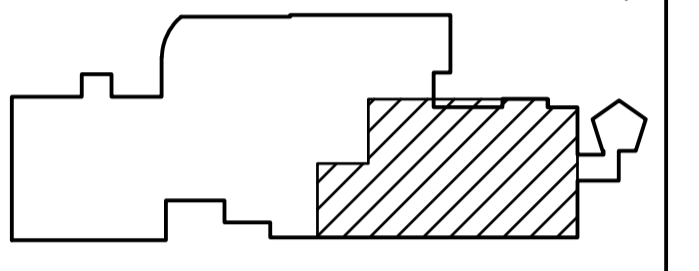
- INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION, RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
- ELECTRICAL CONTRACTOR TO VISIT THE SITE DURING BIDDING PROCESS, INSPECT AREAS BEING RENOVATED OR DEMOLISHED AND ACQUAINT THEMSELVES FULLY WITH THE EXISTING EQUIPMENT. DISCREPANCIES TO BE REPORTED TO THE ENGINEER 7 DAYS PRIOR TO SUBMISSION OF BID FOR INCLUSION IN ADDENDA IF REQUIRED, IN THE ABSENCE OF NOTIFICATION, IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INCLUDED THE MORE EXPENSIVE ALTERNATIVE IN THE TENDERED PRICE.
- COORDINATE THE ELECTRICAL DEMOLITION WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES AT THE JOBSITE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING ALL CONDUITS, WIRING AND EQUIPMENT WHICH MUST BE MAINTAINED TO PREVENT DAMAGE TO ELECTRICAL CIRCUITS AND EQUIPMENT BY THE DEMOLITION WORK OF OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REPAIR OR REPLACEMENT OF ELECTRICAL CIRCUITS AND/OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF OTHERS, RESULTING FROM THE FAILURE OF THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAID CIRCUITS OR EQUIPMENT.
- REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR FURTHER INDICATION OF DEMOLITION AND RENOVATION. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY OR PERMANENT REMOVAL, DISCONNECTION, AND/OR RELOCATION OF EQUIPMENT AND ASSOCIATED CONTROLS (EXCLUDING MECHANICAL EQUIPMENT).
- THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES, CONDUIT, WIRE, BOXES, FITTINGS, AND HANGING MATERIALS FOR ELECTRICAL EQUIPMENT ABOVE EXISTING CEILING. REMOVAL SHALL CONTINUE THROUGHOUT CONSTRUCTION AS EQUIPMENT AND CIRCUITS ARE DISCONNECTED.
- ELECTRICAL CONTRACTOR TO ALLOW FOR TEMPORARY REMOVAL AND REINSTALLATION AS REQUIRED TO ACCOMMODATE WALL, FLOOR AND CEILING REFINISHING.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING INTEGRITY OF BUILDING STRUCTURE.
- FOR EQUIPMENT AND DEVICES TO BE REMOVED ELECTRICAL CONDUIT, WIRES, AND SYSTEMS CABLING SHALL BE REMOVED BACK TO SOURCE.
- ELECTRICAL CONTRACTOR SHALL REUSE ALL ELECTRICAL COMPONENTS REMOVED DURING DEMOLITION WHERE POSSIBLE AND SALVAGE NON-REUSABLE ELECTRICAL COMPONENTS TO DEPARTMENTAL REPRESENTATIVE.

DRAWING KEYNOTES:

- FOR THE 5 ELECTRICAL PANELS IN SCOPE, ELECTRICAL CONTRACTOR IS TO UPDATE PANEL SCHEDULES NEW AND EXISTING CIRCUITS WITH TYPE WRITTEN SCHEDULES (AS ALSO NOTED IN SPECIFICATIONS).
- FOR THE 2 DISTRIBUTION PANELS, ELECTRICAL CONTRACTOR IS TO PROVIDE NEW BREAKER LABELS FOR REPLACED EQUIPMENT, FORMATTED AS DESCRIBED IN SPECIFICATIONS. REFER TO PHOTOS ON SHEET E002.
- REMOVE EXISTING BREAKERS AND HAND OVER TO DEPARTMENTAL REPRESENTATIVE.
- INTERRUPT RATING FOR NEW CIRCUIT BREAKER SHALL MATCH EXISTING BREAKERS.
- REPLACE BREAKER WITH NEW 45A HACR TYPE BREAKER. REUSE EXISTING 8# AWG WIRE SIZE. NOTIFY DEPARTMENTAL REPRESENTATIVE IF EXISTING WIRE IS NON-COMPLIANT, OR NOT REUSABLE.
- REPLACE BREAKER WITH NEW 40A HACR TYPE BREAKER. REPLACE EXISTING WIRE PER MECHANICAL EQUIPMENT SCHEDULE, USE EXISTING PATHWAY TO ROOF.
- RELABEL BREAKER AS SPARE.

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	JULY 14, 2021

Key Plan		
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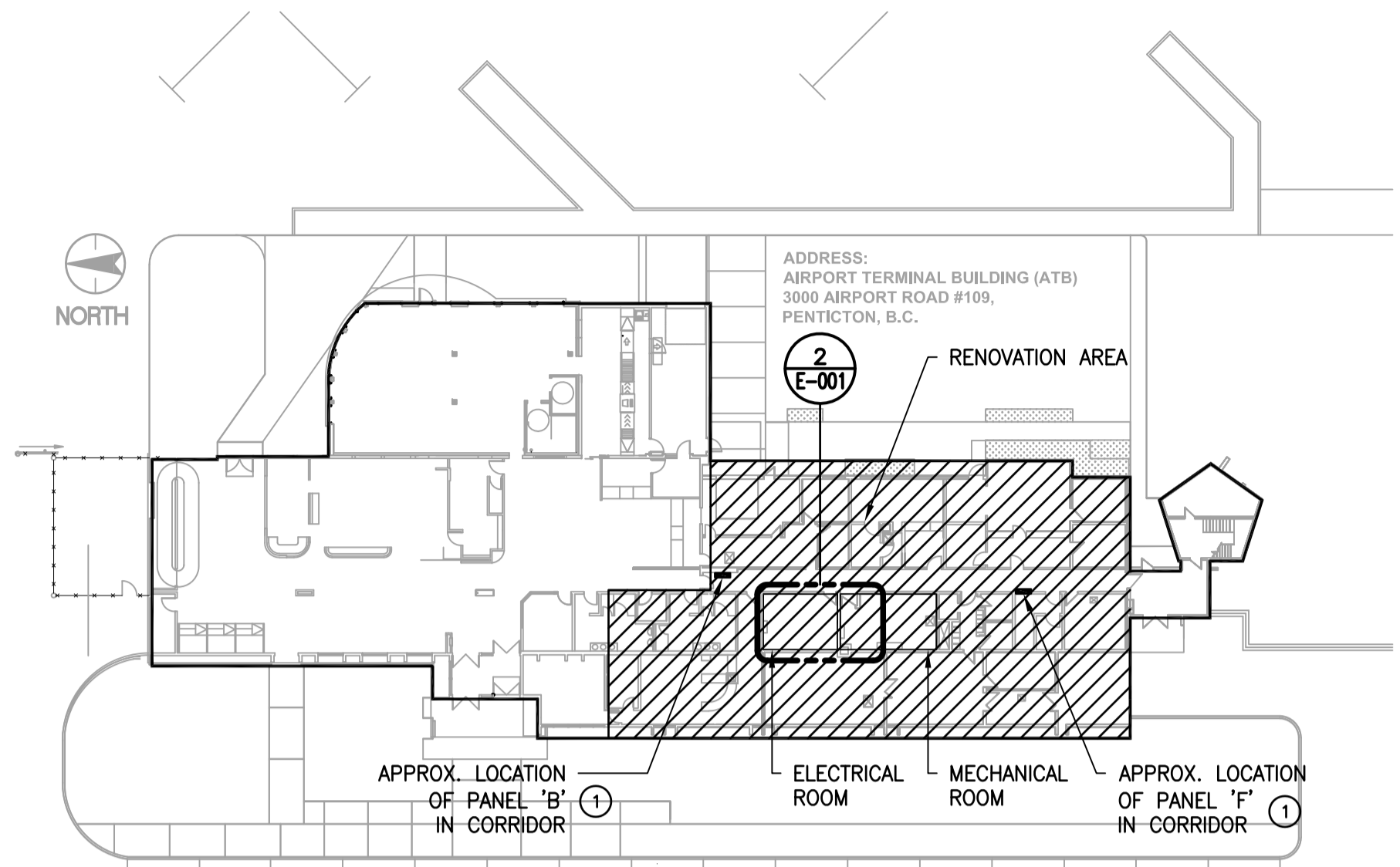
TRANSPORT CANADA
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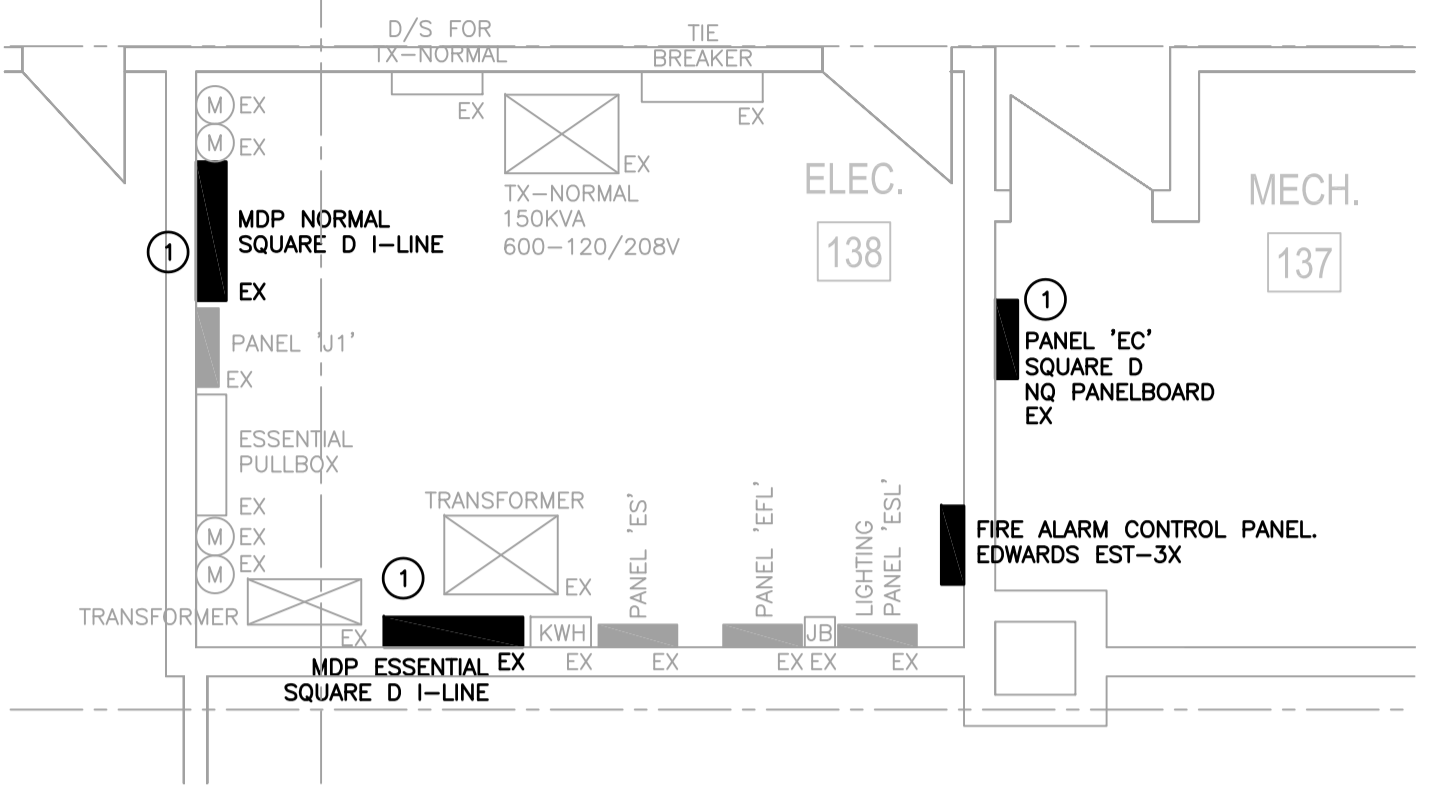
Designed by/Concept par
JV / SB
Drawn by/Dessiné par
JV / RM
PWSC Project Manager/Administrateur de Projets TPSGC
JULIAN HO
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL
Drawing title/Titre du dessin

ELECTRICAL NOTES, SYMBOL
LEGEND, KEY PLAN, AND
PANEL SCHEDULES

Project No./No. du projet R.105676.001	Sheet/Fauille E-001 1 OF 3	Revision no./La Révision no. 0
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1 AIRPORT TERMINAL BUILDING - KEY PLAN
E-001 1:400



2 ELECTRICAL AND MECHANICAL ROOMS
E-001 1:50

ELECTRICAL SYMBOLS:

- MOTOR C/W DISCONNECT SWITCH
- POWER OR LIGHTING PANEL
- TRANSFORMER
- METERING
- RECEPTACLE, CSA 5-15R
- RECEPTACLE, CSA 5-20R
- FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
- DRAWING KEYNOTE

ABBREVIATIONS:

- EX EXISTING
- GF GROUND FAULT
- WP WEATHER PROOF
- MDP MAIN DISTRIBUTION PANEL

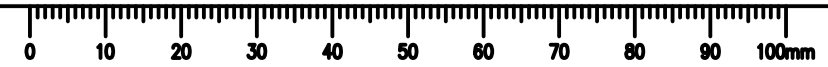
DRAWING LIST

E001	ELECTRICAL NOTES, SYMBOL LEGEND, KEY PLAN, AND PANEL SCHEDULES
E002	ELECTRICAL PANEL PHOTOS AND MOTOR LIST
E100	ELECTRICAL FLOOR PLAN

PANEL - EC	MOUNTING - SURFACE	LOCATION - MECHANICAL ROOM	VOLTS - 208/120V, 3ø, 4W	MAIN BUS - 100A	MAIN BREAKER - LUGS	
KEYNOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	KEYNOTE
	ELECTRICAL ROOM SF-1	20A	1	2	20A BOILER CONTROL	
	MECHANICAL ROOM SF-2	20A	3	4	15A P-B3	
7	SPARE	15A	5	6	15A SPARE	7
	CIRCULATING PUMP 3	15A	9	10	15A JOHNSON CONTROLS PANEL	
	ELECTRICAL ROOM FAN	15A	11	12	30A SOLAR HEATING PLUG	
	ELECTRICAL ROOM FAN	15A	13	14	SPARE	
	JANITORS ROOM FAN	15A	15	16	15A SPRINKLER PUMP	
	-	15A	17	18	15A AVC BOILER/ E STOP	
	P-1	15A	19	20	15A P-B1	
	P-2	15A	21	22	15A P-B2	
	P-3	15A	23	24	-	
	-	15A	25	26	-	
	-	15A	27	28	-	
	-	15A	29	30	-	
	AHU-2 ROOFTOP MTCE	20A	31	32	-	
	AHU-4 ROOFTOP MTCE	20A	33	34	-	
	-	-	35	36	-	
	-	-	37	38	-	
	-	-	39	40	-	
	-	-	41	42	-	

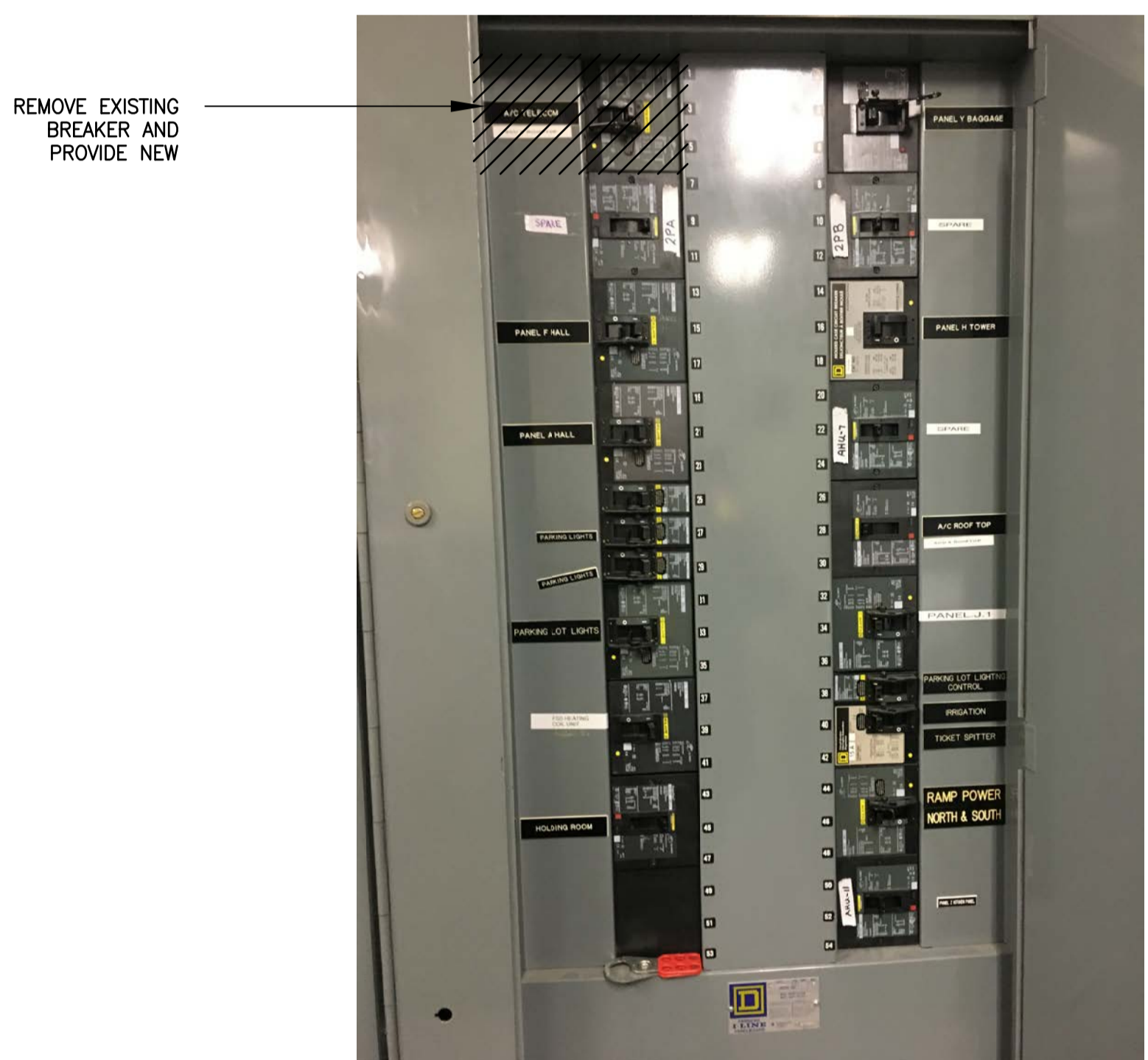
PANEL - MDP ESSENTIAL	MOUNTING - SURFACE	LOCATION - ELECTRICAL ROOM	VOLTS - 208/120V, 3ø, 4W	MAIN BUS - 400A	MAIN BREAKER - 400A	
KEYNOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	KEYNOTE
	PANEL 'C' BOILER ROOM	60A	1	2	50A PANEL 'B'	
	PANEL 'ES'	100A	9	10	50A TOWER AIR CONDITION	
	PANEL 'G'	70A	15	16	40A AHU-4	2, 3, 4, 6
	PANEL 'K'	70A	21	22	70A PANEL 'E'	
	PANEL 'EC'	-	27	28	70A PANEL 'J'	
	PANEL 'I'	70A	33	34	45A AHU-2	2, 3, 4, 5
	-	-	37	38	-	
	-	-	39	40	-	
	-	-	41	42	-	

PANEL - MDP NORMAL	MOUNTING - SURFACE	LOCATION - ELECTRICAL ROOM	VOLTS - 208/120V, 3ø, 4W	MAIN BUS - 400A	MAIN BREAKER - 400A	
KEYNOTE	DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	KEYNOTE
2, 3, 4, 5	ACU-5	45A	1	2	150A PANEL Y BAGGAGE	
	SPARE	60A	5	6	40A SPARE	
	PANEL F HALL	100A	15	16	70A PANEL H TOWER	
	PANEL A HALL	70A	21	22	50A SPARE	
	TICKET DISPENSER	15A	25	26	-	
	PARKING LIGHTS	20A	27	28	150A ACU-6	
	PARKING LIGHTS	20A	29	30	-	
	PARKING LOT LIGHTS	100A	33	34	50A PANEL J1	
	FSS HEATING COIL UNIT	100A	37	38	15A PARKING LOT LIGHTING CONTROL	
	HOLDING ROOM	60A	45	46	100A RAMP POWER NORTH & SOUTH	
	-	-	49	50	-	
	-	-	51	52	150A PANEL A KITCHEN PANEL	
	-	-	53	54	-	

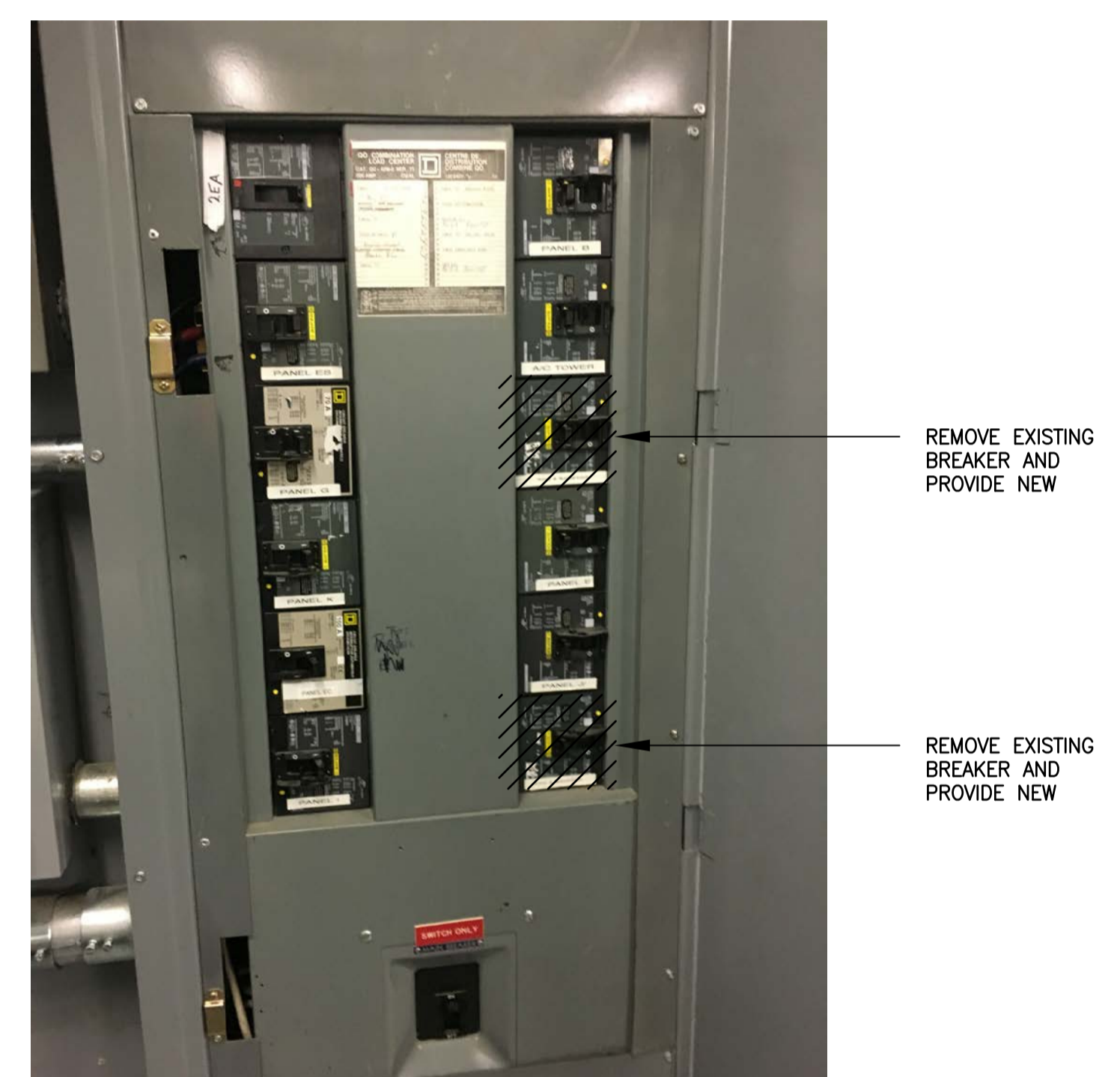




1 ELECTRICAL ROOM
E002

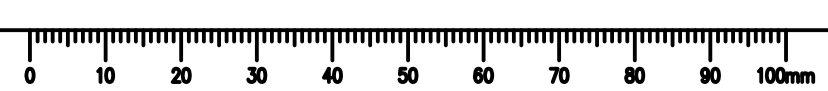


2 PANEL MDP NORMAL
E002 SQUARE D I-LINE



3 PANEL MDP ESSENTIAL
E002 SQUARE D I-LINE

UNIT I.D.	UNIT DESCRIPTION	LOCATION	TYPE OF EQUIPMENT	VOLTS	PH	Hz	INDIVIDUAL MOTOR		PACKAGE/HEATER/OTHER	PACKAGE/GROUPED MOTOR FEEDER		GROUPING	STARTER				DISCONNECT				CONTROLS				ACCESSORIES				FIRE ALARM				POWER SOURCE	POWER SOURCE NAME (MCC/MDC/CDP/PANEL)	BREAKER RATING (AMPS)	CONDUCTOR SIZE (COPPER)	CONDUIT SIZE	NOTES	
							HP	FLA		kW	MCA		MOP	TYPE	SIZE (NEMA)	SUPPLIED BY	WIRED BY	INSTALLED BY	WIRED BY	TYPE(S)	SUPPLIED BY	INSTALLED BY	WIRED BY	HO/HOA/SFOA/FROA	PLR	PLD	PLT	TRB	AUX	INTERFACE REQUIRED	AUTO ON	AUTO OFF							HOA SWITCH IN CAG (OR NEAR ANNUNCIATOR)
AHU-2	Heating and Cooling	Roof top	Package Unit (Single Connection)	208	3	60				32	45	PCS2	M	M	E	M	E	M	E	BAS	M	M	M												MDP Essential CCT #32,34,36	45A/3P	3#8+BOND	21mm	gas burner
AHU-4	Heating and Cooling	Roof top	Package Unit (Single Connection)	208	3	60				27	40	PCS2	M	M	E	M	E	M	E	BAS	M	M	M											MDP Essential CCT #14,16,18	40A/3P	3#8+BOND	21mm	cooling only, no heating coil	
AHU-5	Heating and Cooling	Roof top	Package Unit (Single Connection)	208	3	60				32	45	PCS2	M	M	E	M	E	M	E	BAS	M	M	M											MDP Normal CCT #1,3,5	45A/3P	3#8+BOND	21mm	gas burner	
SF-1	Elec Room Ventilation	Roof top	Individual Motor	115	1	60	0.5	9.8				LOOSE	MRR	E	E	E	E	E	E	BAS	M	M	M											Panel 'EC' CCT #1	20A/1P	2#12+BOND	21mm		
SF-2	Mech Room Ventilation	Roof top	Individual Motor	115	1	60	0.5	9.8				LOOSE	MRR	E	E	E	E	E	E	BAS	M	M	M										Panel 'EC' CCT #3	20A/1P	2#12+BOND	21mm			
EF-1	Terminal Washrooms	Roof top	Individual Motor	115	1	60	0.25	5.8				LOOSE	MRR	E	E	E	E	E	E	BAS	M	M	M										Panel 'B' CCT #20	15A/1P	2#12+BOND	21mm			
EF-3	NAVCAN Washrooms	Roof top	Individual Motor	115	1	60	0.25	5.8				LOOSE	MRR	E	E	E	E	E	E	BAS	M	M	M										Panel 'F' CCT #17	15A/1P	2#12+BOND	21mm			



Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique

Revision/Description	Date/Date
0 ISSUED FOR TENDER	JULY 14, 2021

Key Plan

Seal

Sub-Consultant

Prime Consultant

RJC Project No. KEL.021700.0004

Client/client

TRANSPORT CANADA
800 BURRARD ST
VANCOUVER, B.C.

Project title/Titre du projet

3000 AIRPORT ROAD
PENTICTON, BC
PENTICTON REGIONAL AIRPORT
PENTICTON ATB
ROOF SEISMIC UPGRADE
ROOFING & BUILDING
ENVELOPE PROJECT

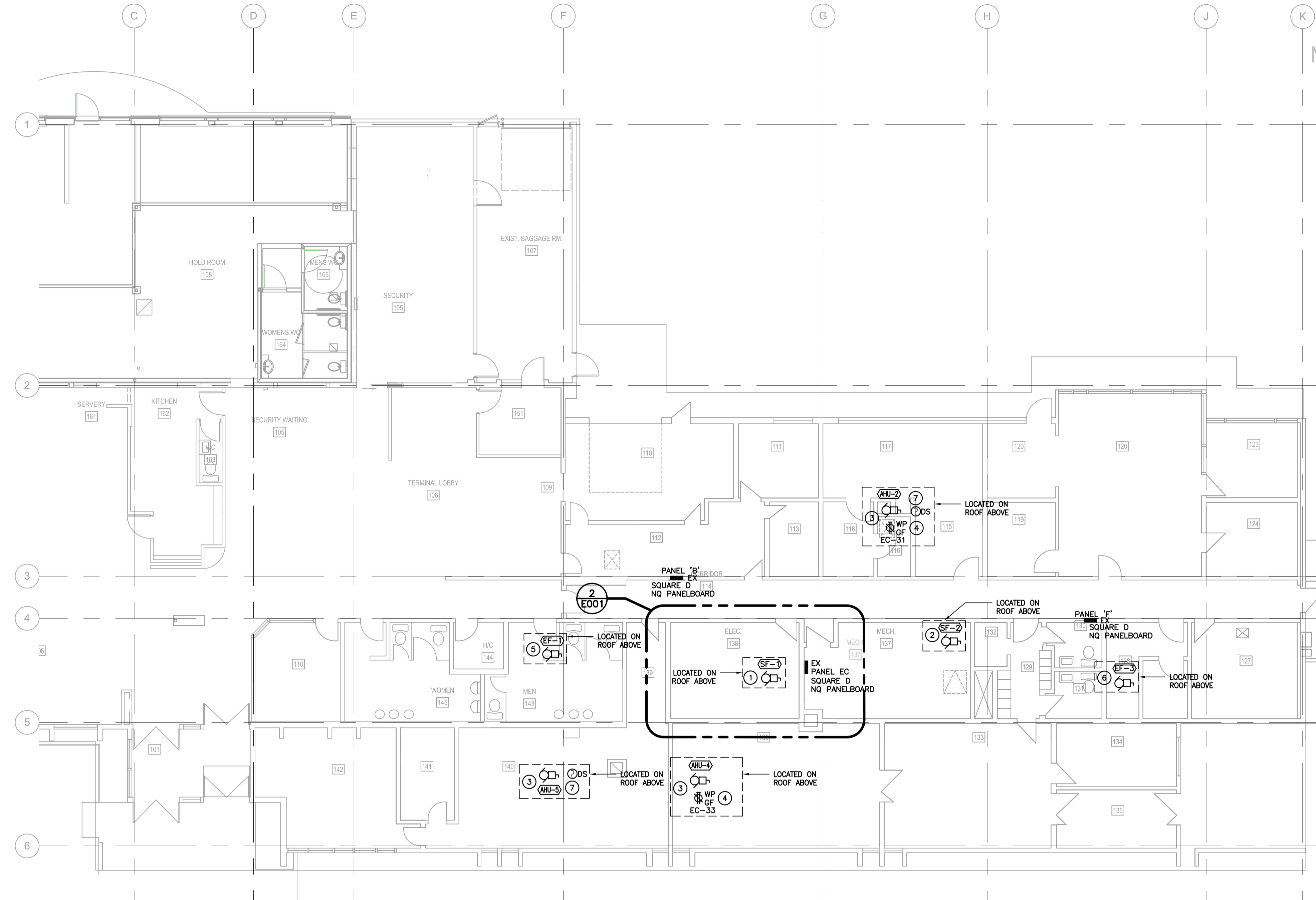
Consultant Signature Only

Designed by/Concept par: JV / SB
Drawn by/Dessiné par: JV / RM
PWGSC Project Manager/Administrateur de Projets TPSGC: JULIAN HO
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC: PREETIPAL PAUL
Drawing title/Titre du dessin

ELECTRICAL PANEL PHOTOS AND MOTOR LIST

Project No./No. du projet: R.105676.001	Sheet/Fauille: E-002 2 OF 3	Revision no./La Révision no.: 0
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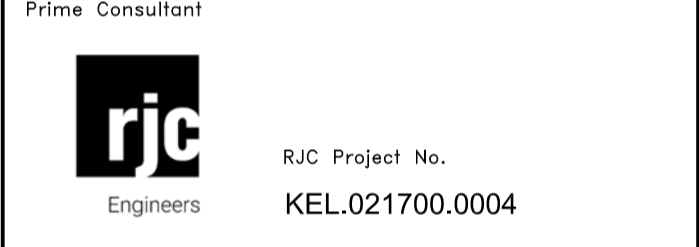
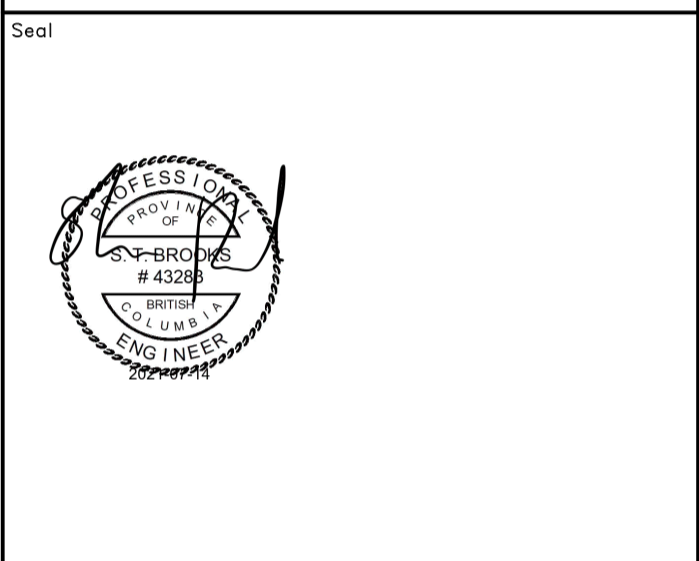
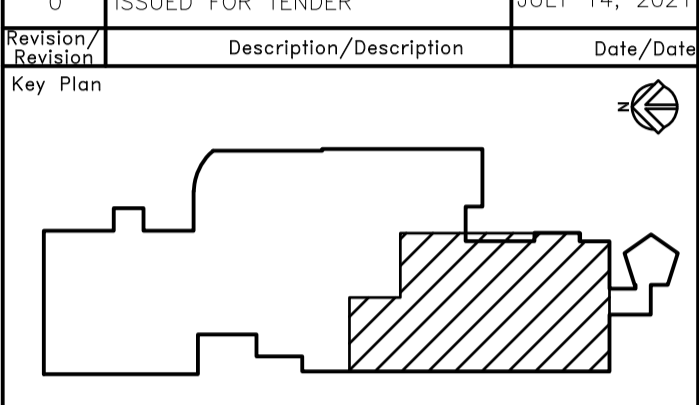


1 PARTIAL MAIN FLOOR PLAN – ELECTRICAL RENOVATION
E-100 1:100

- GENERAL NOTES:**
- RUN CONDUIT AND BX CABLE PARALLEL TO BUILDING LINES, DOWN CORRIDOR AS MUCH AS IS FEASIBLE AND BRANCHING OFF AS REQUIRED.
 - EXISTING WIRE AND CONDUIT MAY BE REUSED.
 - COORDINATE TIMING OF DISCONNECTIONS TO NEW EQUIPMENT WITH MECHANICAL CONTRACTOR.
 - USE TECK CABLE, WATER TIGHT FITTINGS AND CONNECTORS ON ROOFTOP ON ALL CONNECTIONS.
 - NEW EQUIPMENT SHALL BE RENAMED PER THE MECHANICAL DRAWINGS. EXISTING "ACU" RENAMED TO "AHU"; EXISTING "SAF" RENAMED TO "SF".

- DRAWING KEYNOTES:**
- RE-USE WIRE FROM CIRCUIT SF-1 : EC-1.
 - RE-USE WIRE FROM CIRCUIT SF-2 : EC-3
 - DISCONNECT SWITCH WILL BE SUPPLIED BY MECHANICAL TRADE AND SHIPPED LOOSE WITH EQUIPMENT, TO BE FIELD INSTALLED BY ELECTRICAL CONTRACTOR AT 750mm ABOVE ROOF.
 - AIR HANDLING UNIT MAINTENANCE RECEPTACLE WILL REQUIRE A NEW ROOF PENETRATION. FOLLOW EXISTING WIRE ROUTE OR AS DESCRIBED IN GENERAL NOTE #1. ALL NEW WIRING IS TO BE HIDDEN FROM VIEW IN ALL FINISHED SPACES. FROM SURFACE MOUNT CONDUIT IN MECHANICAL AND ELECTRICAL ROOMS. WIRING WILL BE INSTALLED ABOVE T-BAR CEILING IN CORRIDOR AND ADMINISTRATIVE AREAS. 5-2DR GFI RECEPTACLE WITH "WHILE-IN-USE" WEATHERPROOF BOX TO BE SUPPLIED BY MECHANICAL AND FIELD INSTALLED BY ELECTRICAL.
 - REUSE WIRE AND BREAKER FROM CIRCUIT B:20
 - REUSE WIRE AND BREAKER FROM CIRCUIT F:17
 - REMOVE AND RE-INSTALL DUCT MOUNTED SMOKE DETECTORS IN ACCORDANCE WITH CAN-ULC S524. AIR HANDLING UNIT TO SHUT DOWN ON SMOKE DETECTION. PERFORM PARTIAL FIRE ALARM VERIFICATION AND PROVIDE TEST REPORT TO ENGINEER UPON COMPLETION.

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Project No./No. du projet R.105676.001	Sheet/Fauille E-100 3 OF 3	Revision no./La Révision no. 0
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