



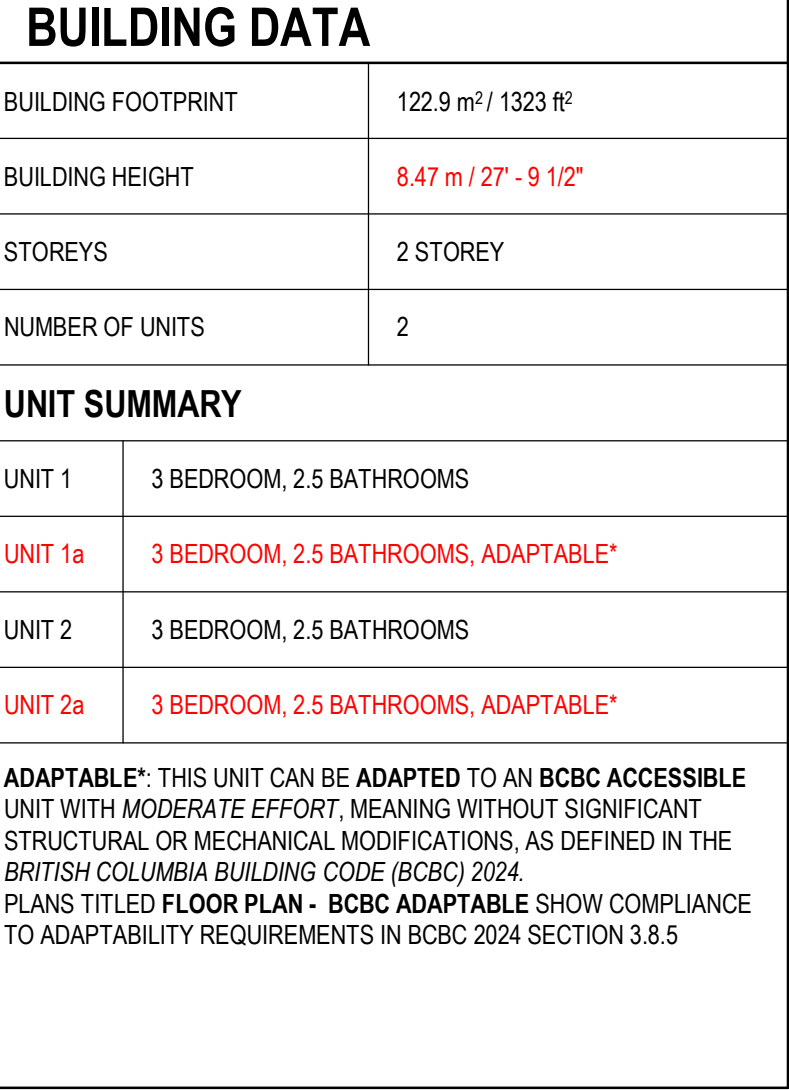
HOUSING DESIGN CATALOGUE

BC - ROWHOUSE

ARCHITECTURAL DRAWINGS



This drawing was created for use solely as part of the CMHC Housing Design Catalogue. It is a sample of standardized housing design, reflecting general design intention only and does not incorporate any elements or other information specific to any location or project. This design is provided for illustrative purposes only and must not be used for construction or permitting purposes. In using this design, you are responsible for your compliance with the Terms and Conditions, including but not limited to engaging the services of a Qualified Professional.



ARCHITECTURAL SHEET LIST

A001	COVER SHEET
A002	EXTERIOR ASSEMBLIES SCHEDULE
A003	INTERIOR ASSEMBLIES SCHEDULE
A004	DOOR AND WINDOW SCHEDULE
A005	FIRE RATING DETAILS
A006	TYPICAL DETAILS
A007	TYPICAL DETAILS 2
A010	SITE PLAN & CODE MATRIX
A011	CODE - OPENINGS
A101	MAIN FLOOR PLAN
A101a	MAIN FLOOR PLAN - BCBC ADAPTABLE
A102	SECOND FLOOR PLAN
A102a	SECOND FLOOR PLAN - BCBC ADAPTABLE
A104	ROOF PLAN
A200	ELEVATIONS
A201	ELEVATIONS
A300	SECTIONS

ABBREVIATIONS

ABBREVIATIONS MAY OR MAY NOT INCLUDE PERIOD PUNCTUATION.
ABBREVIATIONS APPLY TO ARCHITECTURAL DOCUMENTS ONLY.

ARCH	ARCHITECTURAL
ASHP	AIR SOURCE HEAT PUMP
BOCB	BRITISH COLUMBIA BUILDING CODE
BF	BARRIER FREE
C/C	CENTRE TO CENTRE
CL	CENTER LINE
CIV	CIVIL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
GEOTECH	GEOTECHNICAL
GWB	GYPSUM WALL BOARD
FFE	FINISH FLOOR ELEVATION
FRR	FIRE RESISTANCE RATING
FD	FLOOR DRAIN
HR	HOUR
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
O/C	ON CENTRE
RM	ROOM
R/O	ROUGH OPENING
RWL	RAIN WATER LEADER
SBS	STYRENE BUTADIENE STYRENE
SCH	SCHEDULE
SF	SQUARE FEET
SIM	SIMILAR
SM	SQUARE METER
SPEC	SPECIFICATION
STC	SOUND TRANSMISSION CLASS
STRUC	STRUCTURAL
TBD	TO BE DETERMINED
TOP OF	TOP OF
T&G	TONGUE & GROOVE
TYP	TYPICAL
US	UNDERSIDE
W/UC	WASHROOM

GENERAL NOTES

1. ALL STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS TO BE TAKEN OFF THE RESPECTIVE DISCIPLINE'S DOCUMENTS. NO STRUCTURAL, MECHANICAL AND/OR ELECTRICAL DESIGN INFORMATION SHALL BE INFERRED FROM THE ARCHITECTURAL DRAWINGS.
2. ALL UNDERGROUND SERVICES ARE TO BE IDENTIFIED PRIOR TO THE COMMENCEMENT OF WORK AND EXCAVATIONS.
3. ALL GRADES AND SURFACES ADJACENT THE BUILDING EXTERIOR SHALL SLOPE A MINIMUM OF 2% AWAY FROM THE BUILDING, UNLESS OTHERWISE NOTED.

ANNOTATION LEGEND

ASSEMBLY TAGS

	EXTERIOR WALL TAG
	INTERIOR PARTITION TAG
	ROOF TAG
	FLOOR TAG

(REFER TO ASSEMBLIES SCHEDULES)

TAGS

 DOOR TAG
REFER TO DOOR SCHEDULE

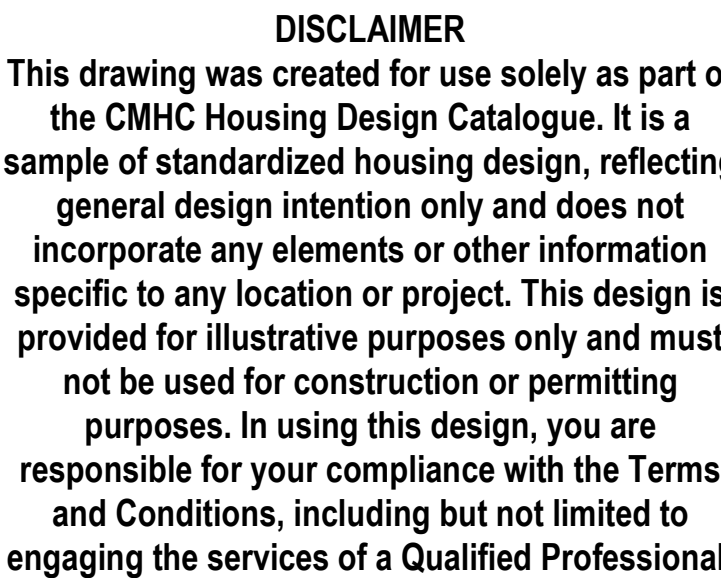
 WINDOW TAG
REFER TO WINDOW SCHEDULE

XYZ-#	MATERIAL TAG
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100	100

KEYNOTES

DRAWING TAGS

	DETAIL NUMBER DRAWING SHEET NUMBER
	BUILDING SECTION NUMBER DRAWING SHEET NUMBER
	EXTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER
	GRID BUBBLE
	SPOT ELEVATION (ABOVE FINISH FLOOR)
	ROOM TAG
	CENTRELINE

[illegible]

PROJECT:

BRITISH COLUMBIA, CANADA

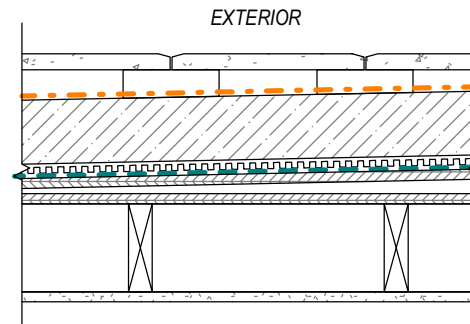
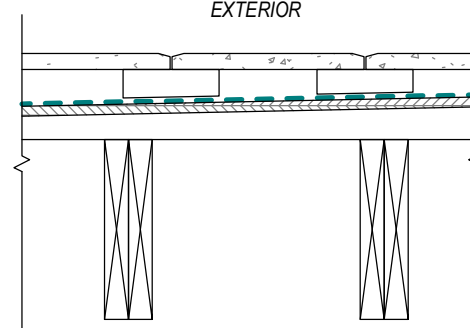
SHEET TITLE:

EXTERIOR ASSEMBLIES
SCHEDULE

PROJECT NO: 241058
SCALE: As indicated

A002

S - SOFFIT ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
S2		SOFFIT, SAME UNIT FLOOR FINISH W/ UNDERLAY DESIGN THICKNESS OF FLOOR FINISH 1 1/8" 3/4" SUBFLOOR PLYWOOD PANEL (GLUED - ACTS AS VAPOUR CONTROL BARRIER) PRE-ENG WOOD JOISTS @ 24" O.C. U.O. REFER TO STRUCTURAL 5 1/2" IN-FILL INSULATION PLYWOOD SHEATHING AIR BARRIER SEMI-RIGID INSULATION RESILIENT CHANNEL PREFINISHED LIGHTWEIGHT CLADDING	R_u EFFECTIVE 34.6
		R_u EFFECTIVE 6.10	ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO CBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4

R2	EXTERIOR  INTERIOR	TERRACE / DECK ROOF ABOVE SAME UNIT 3/4"19mm VAR 4"102mm 5/8"16mm VAR 5/8"16mm DECK FINISH EPDM OR COMPOSITE SHIMS UV STABLE FILTER FABRIC XPS INSULATION DRAINAGE MAT 2 PLY SBS ROOFING MEMBRANE SLOPED PLY WOOD DECK MIN 2% WOOD TAPERS WOOD JOISTS @ MAX 24" C/C MIN DEPTH 5 1/2". REFER TO STRUCTURAL GYPSUM BOARD	R_a EFFECTIVE 23.5 R_a EFFECTIVE 4.09 ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO CBC SUBSECTION 9.26.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4
R4	EXTERIOR 	BALCONY ABOVE CARPORT 3/4"19mm VAR 5/8"16mm VAR DECK FINISH EPDM OR COMPOSITE SHIMS 2-PLY SBS ROOFING MEMBRANE SLOPED WOOD TAPERS MIN 2% DOUBLED WOOD JOISTS @ MAX 16" C/C REFER TO STRUCTURAL	

ASSEMBLY GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED AS FOLLOWS:
A. TO CENTRE OF STUD WALL ASSEMBLY
B. TO EXTERIOR FACE OF CONCRETE AND CMU
C. TO EXTERIOR FACE OF EXTERIOR SHEATHING
D. TO EXTERIOR FACE OF GLASS.
2. REFER TO STRUCTURAL DRAWINGS AND DOCUMENTATION FOR STRUCTURAL DESIGN PARAMETERS INCLUDING BRACE WALLS, STAIRS, CONCRETE ETC.
3. UNLESS OTHERWISE NOTED, ALL PARTITION INCLUDING BUT NOT LIMITED TO ALL COMPONENTS THAT MAKE UP THE PARTITION) AND FURRING ASSEMBLIES ARE TO EXTEND FROM STRUCTURAL DECK/SLAB TO US OF STRUCTURAL DECK/SLAB ABOVE.
4. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS. ENSURE THE CONTINUITY OF ALL FIRE SEPARATIONS AS REQUIRED AND PROVIDE ULC LISTED FIRESTOPPING SYSTEMS FOR ALL CONDITIONS.
5. LOADBEARING WALLS AND OTHER ELEMENTS SHALL HAVE THE SAME FIRE RATING AS THE FLOOR ASSEMBLY IT IS SUPPORTING.
6. STEEL SUPPORTING A FIRE RATED ASSEMBLY SHALL BE PROTECTED TO MATCH THE RATING OF THE SUPPORTED ASSEMBLY.
7. PROVIDE TILE BACKER IN LIEU OF GYPSUM BOARD AT ALL ASSEMBLIES TO RECEIVE TILE FINISHES. REFER TO FINISH PLANS. REFER TO SPECIFICATIONS. ENSURE TILE BACKER IS TYPE X GYPSUM AT REQUIRED FIRE RESISTANCE RATED ASSEMBLIES.
8. IN AREAS WITH HIGH VAPOUR CONTENT (INCLUDING BUT NOT LIMITED TO BATHROOMS) PROVIDE MOISTURE AND MOLD-RESISTANT GYPSUM BOARD IN LIEU OF REGULAR GYPSUM BOARD. ENSURE THAT THE MOISTURE AND MOLD-RESISTANT GYPSUM BOARD MEETS ALL THE FIRE AND ACOUSTIC RATINGS REFERENCED IN THE ASSEMBLY SCHEDULE.
9. COORDINATE ACCESS PANELS LOCATED WITHIN SUSPENDED GYPSUM BOARD CEILING ASSEMBLIES TO BE PAINTED OUT TO MATCH THE SURROUNDING CEILING FINISH. PROVIDE ULC-LISTED ACCESS PANEL WHERE PANEL IS LOCATED IN A RATED CEILING. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS.
10. UNLESS NOTED OTHERWISE, ASSEMBLIES ABOVE OR BELOW DOORS, WINDOWS, EXTERIOR OPENINGS AND INTERIOR SCREENS ARE TO BE THE SAME AS THE TYPE DENOTED ON EITHER SIDE.
11. PROVIDE 19mm FIRE RATED PLYWOOD BLOCKING AND STUD REINFORCING IN WALLS FOR INSTALLATION OF ALL ELEMENTS NEEDING BLOCKING/REINFORCEMENT, INCLUDING BUT NOT LIMITED TO ALL FIXTURES, PLUMBING ACCESSORIES, ADULT CHANGE TABLES, MILLOWORK, EQUIPMENT, ELECTRIC PANELS, ROOF ACCESS LADDER ECT. DESIGN/BUILD ALL BLOCKING AND STUD REINFORCING AS REQUIRED. FULLY COORDINATE ALL BLOCKING AND STUD REINFORCING FOR ANCHORAGE OF MECHANICAL, EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES.
12. GRAB BARS SHALL BE CAPABLE OF RESISTING A LOAD OF NO LESS THAN 1.3KN.
13. PROVIDE ALL PLUMBING CHANGES AND MECHANICAL SHAFTS IN ADDITION TO ASSEMBLIES. COORDINATE REQUIRED CRITICAL DIMENSIONS WHEN LAYING OUT WALLS.
14. IF FLOOR DRAINS ARE LOCATED IN A ROOM, COORDINATE SLOPE ENTIRE FLOOR TOWARD THE DRAIN. THERE WILL BE NO FLAT FLOOR SURFACE IN THE ROOM WITH A REQUIRED FLOOR DRAIN WHERE A ROOM CAN PUDDLE. FLOOR TO SLOPE A MINIMUM OF 2% . REFER TO THE MECHANICAL DOCUMENTS TO DETERMINE WHICH ROOMS HAVE FLOOR DRAINS. REPAIR ANY FLOORS THAT PUDDLE WATER AND/OR DO NOT DRAIN WATER TO THE PROPER FLOOR DRAIN.
15. REPAIR EXISTING EXTERIOR WALL VAPOUR OR AIR BARRIERS DISTURBED BY THE WORK.
16. COORDINATE MINIMUM STUD SPACE REQUIRED TO SUPPORT EQUIPMENT AS NOTED ON ARCHITECTURAL AND ENGINEERING DRAWINGS.
17. ISOLATE ALL MECHANICAL PIPES, DUCTS, AND EQUIPMENT FROM INTERIOR PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
18. MAINTAIN CONTINUITY OF BUILDING ENVELOPE AIR AND AIR/VAPOUR BARRIER AT TRANSITIONS AND PENETRATIONS.
19. COORDINATE VERTICAL SERVICE SPACES THAT DO NOT EXTEND THROUGH THE ROOF AND/OR DO NOT TERMINATE AT HORIZONTAL FIRE RATED ASSEMBLY (ROOF, MEZZANINE, ETC.) TO BE ENCLOSED AT THE TOP AND/OR BOTTOM WITH A ULC CONSTRUCTION ASSEMBLY HAVING A FIRE RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE VERTICAL SERVICE SPACE WALLS.
20. ALL ROOFS, GUTTERS AND TROUGHS HAVE POSITIVE SLOPE TO DRAIN.
21. ALL CAP FLASHINGS SLOPE INWARDS TOWARDS ROOF DECKS.
22. PROVIDE CONTINUOUS DAMPROOFING TO FULL DEPTH OF PERIMETER FOOTINGS TO FULL PERIMETER OF BUILDING.
23. PROVIDE BUG SCREEN AT ALL OPENINGS GREATER THAN 5MM IN THE NARROWEST DIRECTION IN ALL EXTERIOR WALL ASSEMBLIES.
24. PROVIDE PHYSICAL BARRIER OR SPATIAL SEPARATION BETWEEN DISSIMILAR METALS AS REQUIRED TO PREVENT GALVANIC CORROSION.
25. AIR BARRIER MATERIALS FOR SLABS-ON-GRADE SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH 9.2.3.3.6.
26. PROVIDE A BOND BREAKING MATERIAL BETWEEN FLOOR SLABS AND FOOTINGS AND ROCKS.
27. ENDS OF WOOD MEMBERS FRAMING INTO CONCRETE SHALL BE TREATED TO PREVENT DECAY WHERE THE BOTTOM MEMBER IS AT OR BELOW GROUND LEVEL.
28. WOOD FRAMING MEMBERS WITHIN 6' (150mm) OF GROUND, THAT ARE NOT PRESSURE TREATED WITH A WOOD PRESERVATIVE AND THAT ARE SUPPORTED ON CONCRETE IN CONTACT WITH THE GROUND, SHALL BE SEPARATED FROM THE CONCRETE BY NO LESS THAN 0.05mm POLYETHYLENE FILM.
29. CONFIRM SLOPES OF ROOFING CLADDING COMPLY WITH MANUFACTURER REQUIREMENTS.
30. REFER TO 9.27.5.4. FOR REQUIRED SPACING OF FASTENERS FOR CLADDING.
31. PROVIDE WEATHERPROOF ENCLOSURES FOR EXTERIOR DEVICES AS REQUIRED.

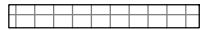
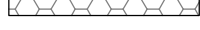
	EXTERIOR WALL	ROOF	SLAB ON GRADE	FOUNDATION WALL	GLAZING
CZ4	W1.2 / W2.2	R1.2	SOG1.1	FW1.1	TRIPLE
CZ5	W1.4 / W2.4	R1.3	SOG1.2	FW1.2	TRIPLE
CZ6	W1.4 / W2.4	R1.3	SOG1.2	FW1.2	TRIPLE

NOTES:

- EXTERIOR CLADDING AND/OR WALL CONSTRUCTION SHALL BE NON-COMBUSTIBLE WHERE REQUIRED
- SEE "BC ENERGY MODELLING GUIDELINE FOR MORE INFORMATION REGARDING ASSUMED MODELLING PARAMETERS AND NEXT STEPS FOR COMPLIANCE TO APPLICABLE CODES AND STANDARDS"
- ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO CBCRC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4. SEE USER GUIDE AND MATERIAL GUIDE FOR MORE INFORMATION ON PRODUCT SELECTION FOR ASSEMBLIES THAT ACHIEVE REQUIRED PERFORMANCE TO APPLICABLE CODES AND STANDARDS.
- $R_{\text{eq}} = \text{hr} \cdot R \cdot F \cdot \text{BTU}$
- $R_{\text{eq}} = \text{m}^2 \cdot \text{K} / \text{W}$

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MEMBRANE LEGEND	
	AIR BARRIER, VAPOUR PERMEABLE
	AIR BARRIER, NON-VAPOUR PERMEABLE
	UV STABLE FILTER FABRIC
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING
	SBS ROOFING MEMBRANE
	IMPERMEABLE ROOFING UNDERLAY

INSULATION LEGEND	
	SEMI-RIGID INSULATION
	RIGID INSULATION 1
	RIGID INSULATION 2, HIGH DENSITY
	SPRAY FOAM
	STUD CAVITY INFILL INSULATION

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:

INTERIOR ASSEMBLIES
SCHEDULE

BC Rowhouse

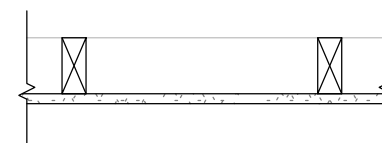
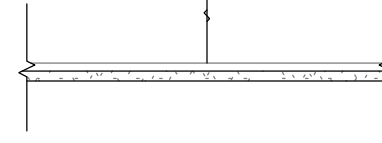
PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A003

P - INTERIOR PARTITIONS AND Furring ASSEMBLIES					
TYPE	DIAGRAM		DESCRIPTION	PERFORMANCE	
P1		5/8"16mm 2x438x89mm 5/8"16mm	2x4 INTERIOR PARTITION GYPSUM WALL BOARD WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL GYPSUM WALL BOARD	FRR STC	1HR 32
P2		5/8"16mm 2x438x89mm C/W 5/8"16mm	2x4 INTERIOR PARTITION (ACOUSTIC) TYPE X GYPSUM WALL BOARD WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL 3 1/2" MW ACOUSTIC BATT TYPE X GYPSUM WALL BOARD	FRR STC	1HR 36
P3		5/8"16mm 2x638x140mm C/W 5/8"16mm	2x6 INTERIOR PARTITION (SERVICE WALL) TYPE X GYPSUM WALL BOARD WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL 5 1/2" MW ACOUSTIC BATT TYPE X GYPSUM WALL BOARD	FRR STC	1HR 36
P4		5/8"16mm 2x438x89mm C/W 1"25mm 2x638x89mm C/W 5/8"16mm	DEMISING WALL - 1 hr FRR TYPE 'X' GYPSUM BOARD WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL 3 1/2" MW ACOUSTIC BATT AIR SPACE WOOD STUD FRAMING @ 16" C/C 3 1/2" MW ACOUSTIC BATT TYPE 'X' GYPSUM BOARD	FRR STC	1HR 57
P5		5/8"16mm 1/2"13mm 2x638x140mm C/W 1/2"13mm 5/8"16mm	2x6 INTERIOR SHEAR WALL 2X TYPE 'X' GYPSUM WALL BOARD PLYWOOD STAGGERED 2X6" WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL 3 1/2" MW ACOUSTIC BATT PLYWOOD 1X TYPE 'X' GYPSUM WALL BOARD	FRR STC	1HR 55
P6		1/2"13mm 1/2"13mm 2x638x140mm C/W 1/2"13mm 1"25mm 1/2"13mm 2x638x140mm 1/2"13mm 1/2"13mm	2-2x6 INTERIOR SHEAR WALL TYPE 'X' GYPSUM WALL BOARD PLYWOOD 2X6" WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL 3 1/2" MW ACOUSTIC BATT PLYWOOD AIR GAP PLYWOOD 2X6" WOOD STUD FRAMING @ 16" C/C REFER ALSO TO STRUCTURAL PLYWOOD TYPE 'X' GYPSUM WALL BOARD	FRR STC	1HR 54

F - FLOOR ASSEMBLIES				
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE	
F1	INTERIOR INTERIOR	FLOOR BETWEEN UNITS FLOOR FINISH w/ UNDERLAY DESIGN THICKNESS OF FLOOR FINISH 1 1/8" T&G SUBFLOOR PLYWOOD PANEL PER STRUCTURAL WOOD JOISTS @ 16" C/C REFER TO STRUCTURAL 11 1/4" UNFACED FIBERGLASS BATT INSULATION RESILIENT METAL CHANNEL @ MAX 24" C/C GYPSUM WALL BOARD, TYPE X GYPSUM WALL BOARD, TYPE X	FRR	1HR
			STC	54
			ASSEMBLY F9d FROM CBC9 9.10.3.1-B	
F2	INTERIOR INTERIOR	FLOOR, SAME UNIT FLOOR FINISH w/ UNDERLAY DESIGN THICKNESS OF FLOOR FINISH 1 1/8" T&G SUBFLOOR PLYWOOD PANEL PER STRUCTURAL WOOD JOISTS @ 16" C/C REFER TO STRUCTURAL 5 1/2" UNFACED FIBERGLASS BATT INSULATION RESILIENT METAL CHANNEL @ MAX 24" C/C GYPSUM WALL BOARD	FRR	N/A
			STC	54

C - CEILING ASSEMBLIES						
TYPE	DIAGRAM		DESCRIPTION		PERFORMANCE	
C1	INTERIOR  INTERIOR		DROPPED CEILING / BULKHEAD, FRAMED 2x4/38mm x 89mm 5/8"/16mm 2x4 WOOD FRAMING GYPSUM WALL BOARD		FRR	N/A
					STC	N/A
C2	INTERIOR  INTERIOR		DROPPED CEILING, OWB ON T-BAR 5/8"/16mm GYPSUM WALL BOARD		FRR	N/A
					STC	N/A

ASSEMBLY GENERAL NOTES

1. THE DESCRIPTION OF THE ASSEMBLIES NOTED IN THE DRAWINGS ARE NOTED "AS BASIS OF DESIGN" AND MAY NOT REPRESENT THE FULL CRITERIA AS DEFINED BY THE TESTING AUTHORITIES.
2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED AS FOLLOWS:
 - A. TO CENTRE OF STUD WALL ASSEMBLIES
 - B. TO EXTERIOR FACE OF CONCRETE AND CMU
 - C. TO EXTERIOR FACE OF EXTERIOR SHEATING
 - D. TO EXTERIOR FACE OF GLASS.
3. REFER TO STRUCTURAL DRAWINGS AND DOCUMENTATION FOR STRUCTURAL DESIGN PARAMETERS INCLUDING BRACE WALLS, STAIRS, CONCRETE ETC.
4. UNLESS OTHERWISE NOTED, ALL PARTITION (INCLUDING BUT NOT LIMITED TO ALL COMPONENTS THAT MAKE UP THE PARTITION) AND FURRING ASSEMBLIES ARE TO EXTEND FROM STRUCTURAL DECKSLAB TO URS OF STRUCTURAL DECKSLAB ABOVE.
5. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS FOR REQUIRED FIRE SEPARATION RATINGS. ENSURE THE CONTINUITY OF ALL FIRE SEPARATIONS AS REQUIRED AND PROVIDE UL-CLISTED FIRESTOPPING SYSTEMS FOR ALL CONDITIONS.
6. LOADBEARING WALLS AND OTHER ELEMENTS SHALL HAVE THE SAME FIRE RATING AS THE FLOOR ASSEMBLY IT IS SUPPORTING.
7. ALL FIRE SEPARATIONS SHALL BE CONSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF FIRE AND SHALL RETARD THE PASSAGE OF SMOKE PER 9.10.3.2.
8. PROVIDE UL-CLISTED FIRESTOP SYSTEMS AS REQUIRED FOR ALL BUILDING SERVICE PENETRATIONS THROUGH RATED ASSEMBLIES AND TO ENSURE THE CONTINUITY OF RATED ASSEMBLIES. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS.
9. WHERE FIRE BLOCKS ARE PIERCED BY PIPES, DUCTS OR OTHER ELEMENTS, THE EFFECTIVENESS OF THE FIRE BLOCKS SHALL BE MAINTAINED AROUND SUCH ELEMENTS.
10. THE EXPOSED SURFACE OF EVERY INTERIOR WALL AND CEILING, INCLUDING SKYLIGHTS AND GLAZING, SHALL HAVE A SURFACE FLAME-SPREAD RATING OF NOT MORE THAN 150. DOORS DO NOT NEED TO HAVE A FLAME-SPREAD RATING.
11. REQUIRED FLAME-SPREAD RATINGS SHALL COMPLY WITH TESTING STANDARDS ACCORDING TO CODE. REFER TO 9.10.3.2.
12. STEEL SUPPORTING A FIRE RATED ASSEMBLY SHALL BE PROTECTED TO MATCH THE RATINGS OF THE SUPPORTED ASSEMBLY.
13. IF REQUIRED BY THE AUTHORITIES HAVING JURISDICTION, PROVIDE ENGINEERED SHOP DRAWINGS, SIGNED AND SEALED BY A STRUCTURAL P.E. INC. LICENSED WITHIN THE PROVINCE OF BRITISH COLUMBIA FOR ALL EXTERIOR CLADDING PANEL SYSTEMS, INCLUDING ALL ASSOCIATED SUPPORT FRAMING AND CONNECTIONS. REFER TO SPECIFICATION
14. PROVIDE TILE BACKER IN LIEU OF GYPSUM BOARD AT ALL ASSEMBLIES TO RECEIVE TILE FINISHES. REFER TO FINISH PLANS. REFER TO SPECIFICATIONS. ENSURE TILE BACKER IS TYPE X GYPSUM AT REQUIRED FIRE RESISTANCE RATED ASSEMBLIES.
15. IN AREAS WITH HIGH VAPOUR CONTACT (INCLUDING BUT NOT LIMITED TO BATHROOMS) PROVIDE MOISTURE AND MOULD-RESISTANT GYPSUM BOARD IN LIEU OF REGULAR GYPSUM BOARD. ENSURE THAT THE MOISTURE AND MOULD-RESISTANT GYPSUM BOARD MEETS ALL THE FIRE AND ACOUSTIC RATINGS REFERENCED IN THE ASSEMBLY SCHEDULE.
16. PROVIDE UL-CLISTED ACCESS PANEL WHERE PANEL IS LOCATED IN A RATED CEILING. IN ADDITION TO THIS PAGE, REFER ALSO TO FIRE SEPARATION DRAWINGS.
17. UNLESS NOTED OTHERWISE, ASSEMBLIES ABOVE OR BELOW DOORS, WINDOWS, EXTERIOR OPENINGS AND INTERIOR SCREENS ARE TO BE THE SAME AS THE TYPE DENOTED ON EITHER SIDE
18. PROVIDE 19mm FIRE RATED PLYWOOD BLOCKING AND STUD REINFORCING IN WALLS FOR INSTALLATION OF ALL ELEMENTS NEEDING BLOCKING/REINFORCEMENT, INCLUDING BUT NOT LIMITED TO ALL FIXTURES, PLUMBING ACCESSORIES, ADULT CHANGE TABLES, MILLWORK, EQUIPMENT, ELECTRIC PANELS, ROOF ACCESS LADDER ECT. DESIGN/BUILD ALL BLOCKING AND STUD REINFORCING AS REQUIRED. FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF MECHANICAL, EQUIPMENT OR DUCTS AND ELECTRICAL FIXTURES.
19. GRAB BARS SHALL BE CAPABLE OF RESISTING A LOAD OF NO LESS THAN 1.3KN.
20. PROVIDE ALL PLUMBING CHANGES AND MECHANICAL SHIFTS IN ADDITION TO ASSEMBLIES. COORDINATE REQUIRED CRITICAL DIMENSIONS WHEN LAYING OUT WALLS.
21. IF FLOOR DRAINS ARE LOCATED IN A ROOM, COORDINATE SLOPING ENTIRE FLOOR TOWARD THE DRAIN. THERE WILL BE NO FLAT FLOOR SURFACE IN THE ROOM WITH A REQUIRED FLOOR DRAIN WHERE WATER CAN PUDDLE. FLOOR TO SLOPE A MINIMUM OF 2%. REFER TO THE MECHANICAL DOCUMENTS TO DETERMINE WHICH ROOMS HAVE FLOOR DRAINS. REPAIR ANY FLOORS THAT PUDDLE WATER AND/OR DO NOT DIRECT WATER TO THE PROPER FLOOR DRAIN.
22. COORDINATE MINIMUM STUD SPACE REQUIRED TO SUPPORT EQUIPMENT AS NOTED ON ARCHITECTURAL AND ENGINEERING DRAWINGS.
23. ISOLATE ALL MECHANICAL PIPES, DUCTS, AND EQUIPMENT FROM PARTITION PARTITIONS TO AVOID ACOUSTIC NOISE TRANSFER.
24. MAINTAIN CONTINUITY OF BUILDING ENVELOPE AIR AND AIR/VAPOUR BARRIER AT TRANSITIONS AND PENETRATIONS.
25. COORDINATE VERTICAL SERVICE SPACES THAT DO NOT EXTEND THROUGH THE ROOF AND/OR DO NOT TERMINATE AT HORIZONTAL FIRE RATED ASSEMBLY (ROOF, FLOOR, MEZZANINE, ECT.). TO BE ENCLOSED AT THE TOP AND/OR BOTTOM WITH A UL-CROUFASTION ASSEMBLY HAVING A FIRE RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE VERTICAL SERVICE SPACE WALLS.

Diagram illustrating the dimensions and types of doors, categorized by door type (A through I). The dimensions are defined as WIDTH, HEIGHT, 3'-0", and 9'15".

- DOOR TYPE A**: EXTERIOR SOLID PANEL WITH SIDELITE
- DOOR TYPE B**: EXTERIOR GLASS PANEL
- DOOR TYPE C**: EXTERIOR SOLID PANEL
- DOOR TYPE D**: EXTERIOR SLIDING GLASS PANEL
- DOOR TYPE E**: INTERIOR SOLID PANEL
- DOOR TYPE F**: INTERIOR FOLDING PANEL 2 LEAFS
- DOOR TYPE G**: INTERIOR FOLDING PANEL 4 LEAFS
- DOOR TYPE H**: INTERIOR POCKET DOOR
- DOOR TYPE I**: SLIDING PANELS

The diagram illustrates five window types with their respective dimensions and orientations:

- WINDOW TYPE A FIXED:** A vertical window with labels for **WIDTH**, **HEIGHT**, and **SILL HEIGHT**.
- WINDOW TYPE B CASEMENT:** A vertical window with labels for **WIDTH**, **HEIGHT**, and **SILL HEIGHT**. It features a dashed line indicating the sash swing.
- WINDOW TYPE C AWNING:** A vertical window with labels for **WIDTH**, **HEIGHT**, and **SILL HEIGHT**. It features a dashed line indicating the sash swing.
- SKYLIGHT TYPE A 'FIXED':** A horizontal window with labels for **WIDTH** and **HEIGHT**.

A north arrow is located to the left of the first three window types.

1. WINDOWS AND DOORS TO CONFORM TO REQUIREMENTS OF CBC 9.7.3 AND 9.7.4
2. MAXIMUM U-VALUE FOR WINDOWS TO CONFORM TO CBC TABLE 9.36.2.7 AND EESR PART 3. WHERE THE U-VALUES DIFFER, THE MOST RESTRICTIVE U-VALUE SHALL APPLY.
3. ALL OPERABLE WINDOWS WITH A SILL HEIGHT OR OPERABLE SECTION LESS THAN 900mm ABOVE FINISHED FLOOR AND 1800mm ABOVE THE FLOOR OR GROUND ON THE OTHER SIDE OF THE WINDOW SHALL BE PROTECTED BY A SWING LIMITER RESTRICTING THE SWING TO NOT MORE THAN 100mm EITHER VERTICALLY OR HORIZONTALLY PER CBC 9.8.8.1.
4. ALL ENTRY DOORS AND ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEYS OR SPECIALIZED KNOWLEDGE.
5. ALL SLIDING DOORS SHALL RESIST FORCED ENTRY ACCORDING TO 9.7.5.1.
6. ALL WINDOWS AND GLAZED DOORS WITHIN 2M OF GRADE TO MEET CBC 9.7.5.3
7. SIDELIGHTS NEEDING TO CONFORM TO CBC 9.6.1.4 SHALL HAVE SAFETY GLAZING OR OTHER ACCEPTABLE SOLUTION.
8. PROVIDE DOOR STOPS AT ALL LOCATIONS WHERE THE DOOR MAY DAMAGE THE INTEGRITY OF A FIRE-RATED WALL.
9. MAIN ENTRY DOORS TO DWELLINGS UNITS SHALL HAVE DOOR VIEWER, TRANSPARENT GLAZING, OR A SIDELIGHT PER CBC 9.7.2.1.(2)

TAG	TYPE	DIMENSIONS		FIRE RATING	NOTES
		WIDTH	HEIGHT		
DA01	DOOR TYPE A	3' - 0"	6' - 10"	N/A	
DE01	DOOR TYPE E	3' - 0"	6' - 8"	N/A	
DE02	DOOR TYPE E	2' - 8"	6' - 8"	N/A	
DF02	DOOR TYPE F	3' - 0"	6' - 8"	N/A	
DF03	DOOR TYPE F	3' - 6"	6' - 8"	N/A	
DF04	DOOR TYPE F	4' - 0"	6' - 8"	N/A	
DF07	DOOR TYPE F	2' - 0"	6' - 8"	N/A	
DH02	DOOR TYPE H	2' - 10"	6' - 8"	N/A	
DI01	DOOR TYPE I	4' - 0"	6' - 8"	N/A	

TAG	TYPE	OPERATION	DIMENSIONS	
			WIDTH	HEIGHT
WA01	WINDOW TYPE A	Fixed	3' - 0"	3' - 0"
WA04	WINDOW TYPE A	Fixed	3' - 0"	6' - 0"
WA06	WINDOW TYPE A	Fixed	3' - 0"	6' - 4"
WB01	WINDOW TYPE B	Casement	3' - 0"	3' - 0"
WB03	WINDOW TYPE B	Casement	3' - 0"	6' - 0"
WB05	WINDOW TYPE B	Casement	3' - 0"	6' - 4"

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NO.	DATE	DESCRIPTION
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CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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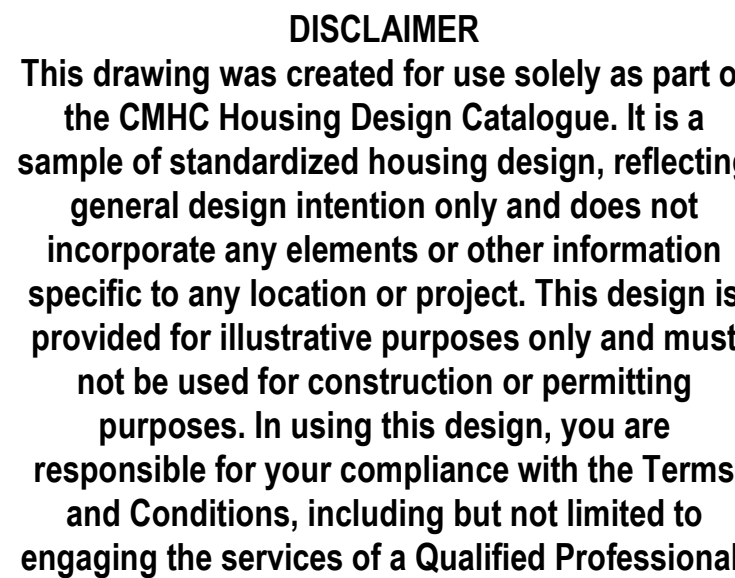
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DOOR AND WINDOW
SCHEDULE

BC Rowhouse

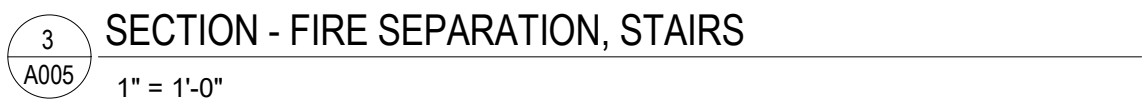
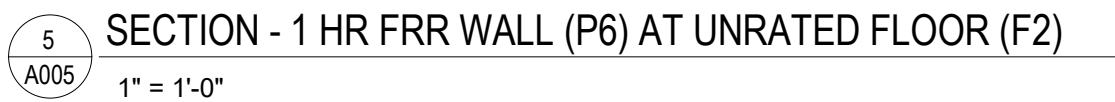
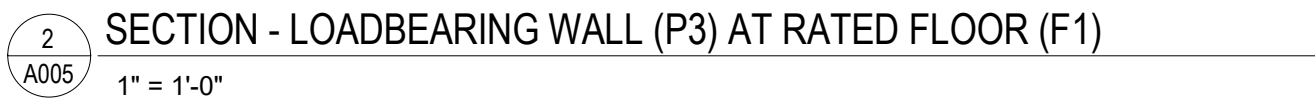
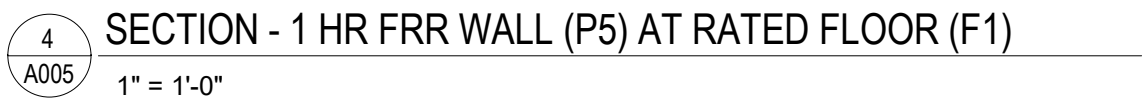
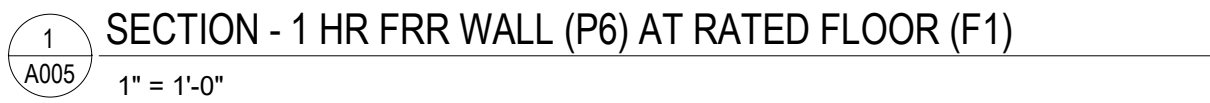
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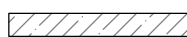
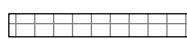
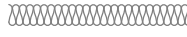
SHEET NO.

A004



1. REQUIRED FIRE-RESISTANCE AND FIRE-PROTECTION RATINGS SHALL BE DETERMINED BY AND IN CONFORMANCE TO METHODS LISTED IN CBCB CLAUSE 9.10.3.1(1)
2. OPENINGS IN WALL AND CEILING MEMBRANES IN ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL FOLLOW REQUIREMENTS IN CBCB SUBSECTION 9.10.4
3. THE CONTINUITY OF A FIRE SEPARATION SHALL BE MAINTAINED WHEN IT ABUTTS ANOTHER FIRE SEPARATION, A FLOOR, A CEILING, A ROOF, OR AN EXTERNAL WALL ASSEMBLY PER CBCB SUBSECTION 9.10.9.2
4. PENETRATIONS OF FIRE SEPARATIONS SHALL CONFORM TO PROVISIONS OF CBCB SUBSECTION 9.10.9.6
5. FIRE BLOCKS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RUN OF STAIRS WHERE APPLICABLE PER CBCB CLAUSE 9.10.16.1.(4)



MEMBRANE LEGEND	
	AIR BARRIER, VAPOUR PERMEABLE
	AIR BARRIER, NON-VAPOUR PERMEABLE
	UV STABLE FILTER FABRIC
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING
	SBS ROOFING MEMBRANE
	IMPERMEABLE ROOFING UNDERLAY
INSULATION LEGEND	
	SEMI-RIGID INSULATION
	RIGID INSULATION 1
	RIGID INSULATION 2, HIGH DENSITY
	SPRAY FOAM
	STUD CAVITY IN-FILL INSULATION

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:

FIRE RATING DETAILS

BC Rowhouse

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A005

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MEMBRANE LEGEND	
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	AIR BARRIER, NON-VAPOUR PERMEABLE
	UV STABLE FILTER FABRIC
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING
	SBS ROOFING MEMBRANE
	IMPERMEABLE ROOFING UNDERLAY
INSULATION LEGEND	
	SEMI-RIGID INSULATION
	RIGID INSULATION 1
	RIGID INSULATION 2, HIGH DENSITY
	SPRAY FOAM
	STUD CAVITY IN-FILL INSULATION

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

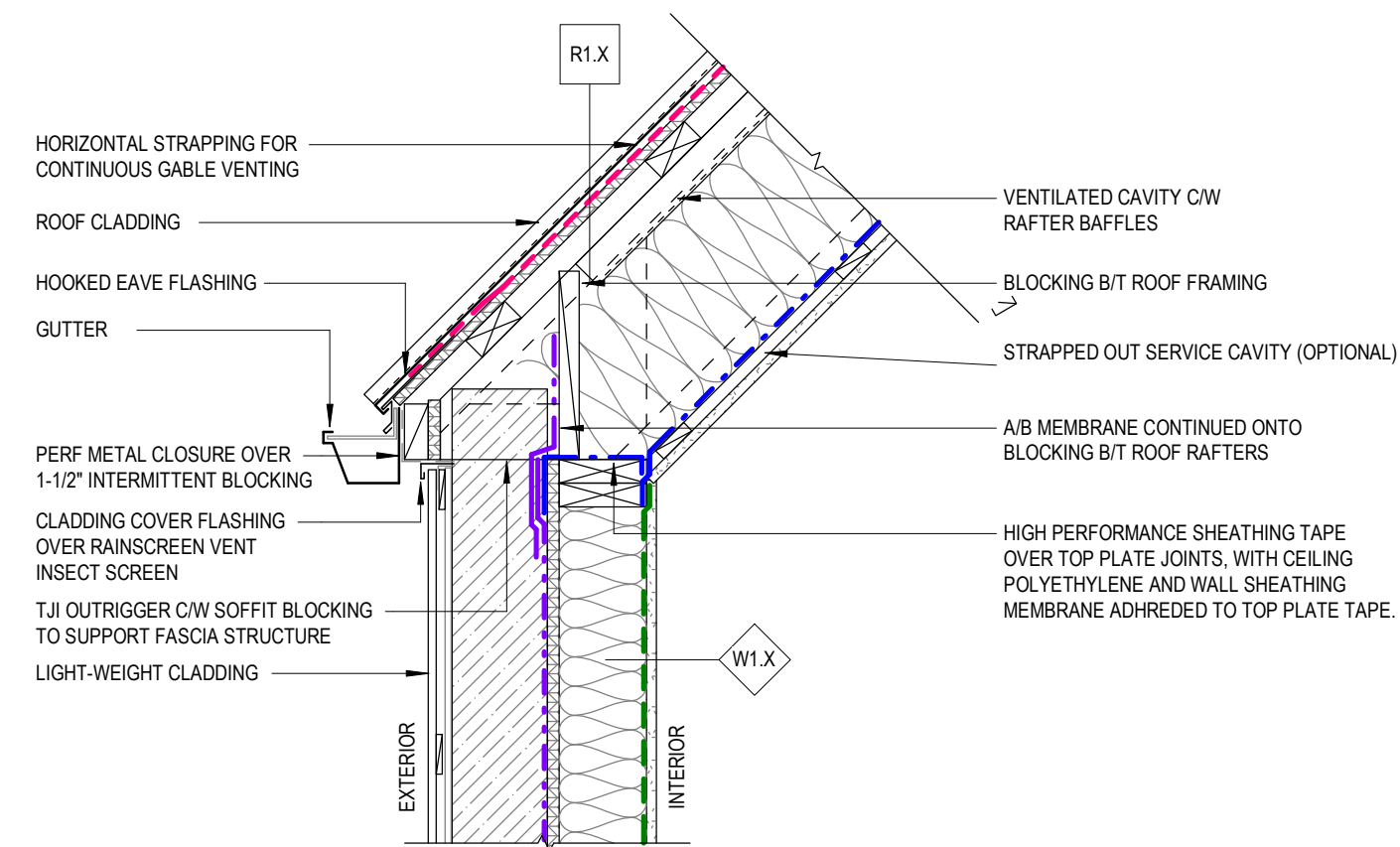
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TYPICAL DETAILS

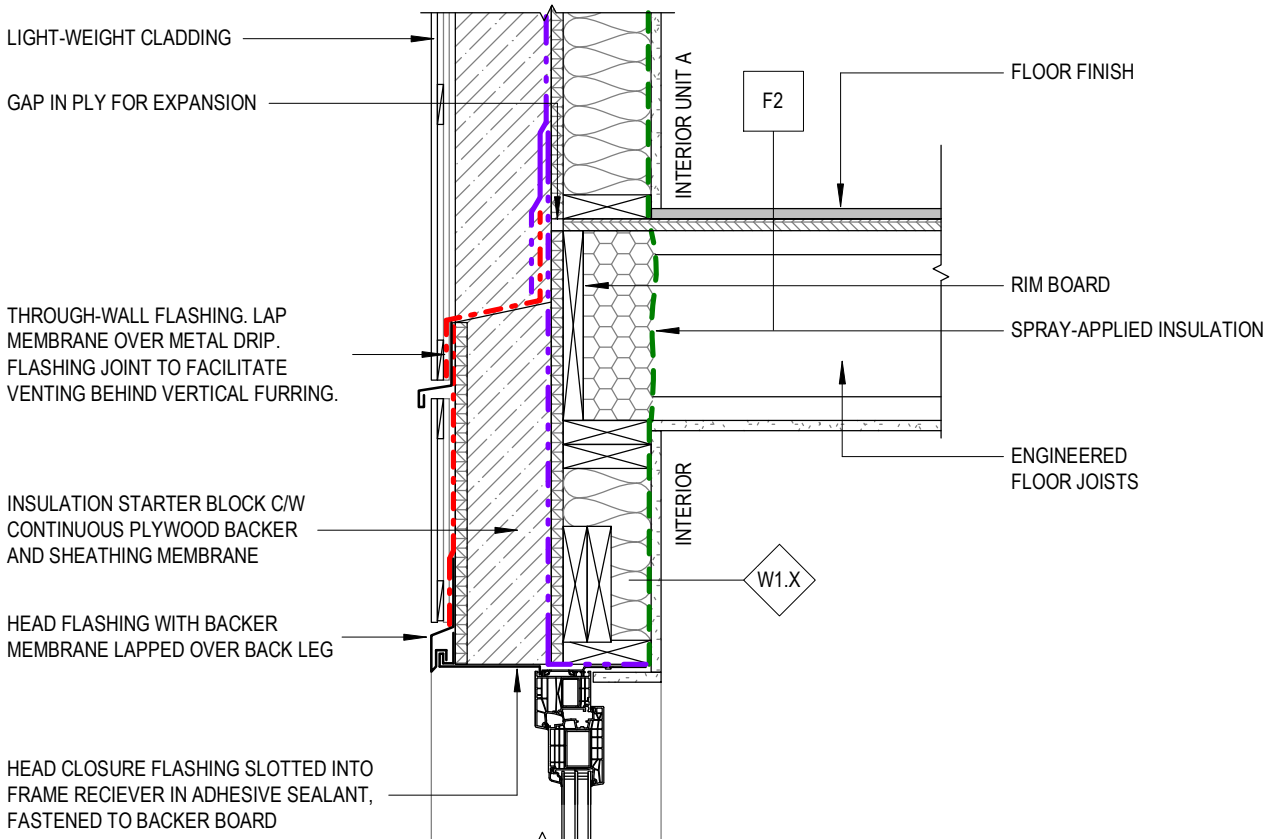
BC Rowhouse

PROJECT NO: 241058
SCALE: As indicated

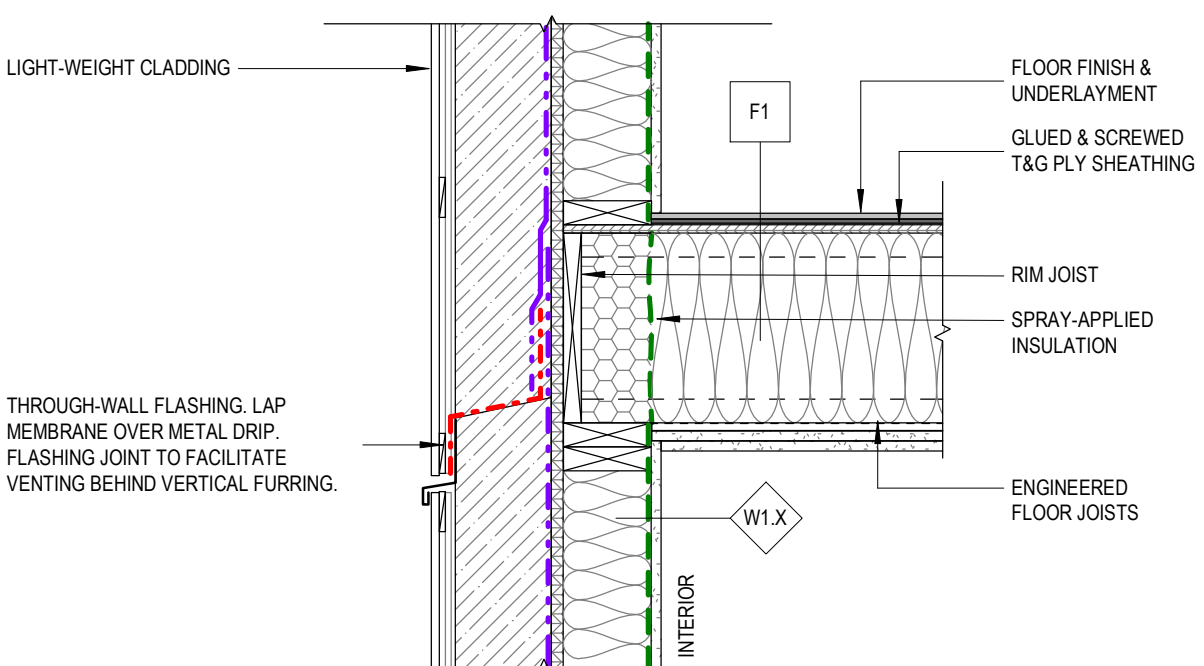
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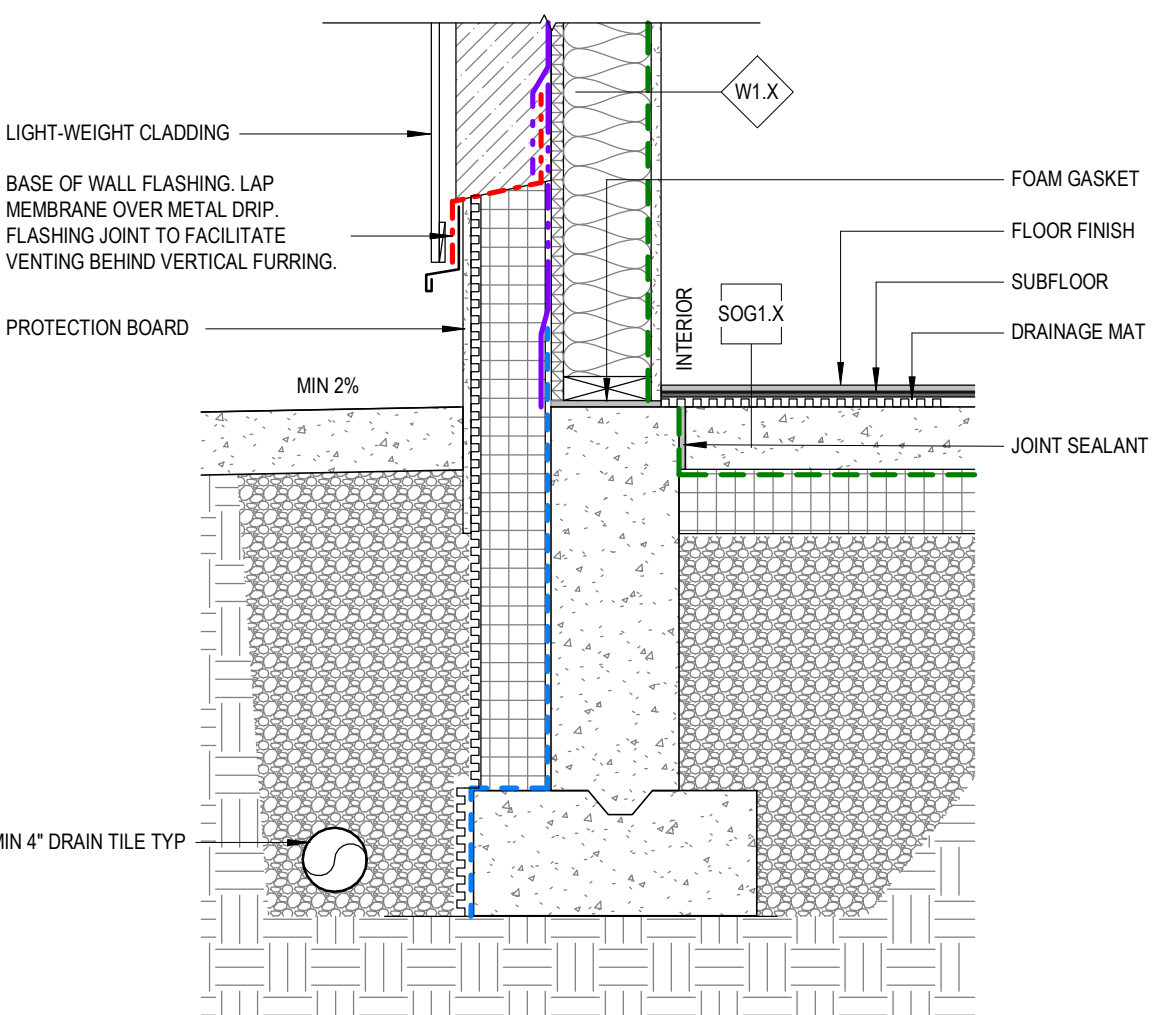
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A006
TYP. WALL TO ROOF - EAVE
1" = 1'-0"



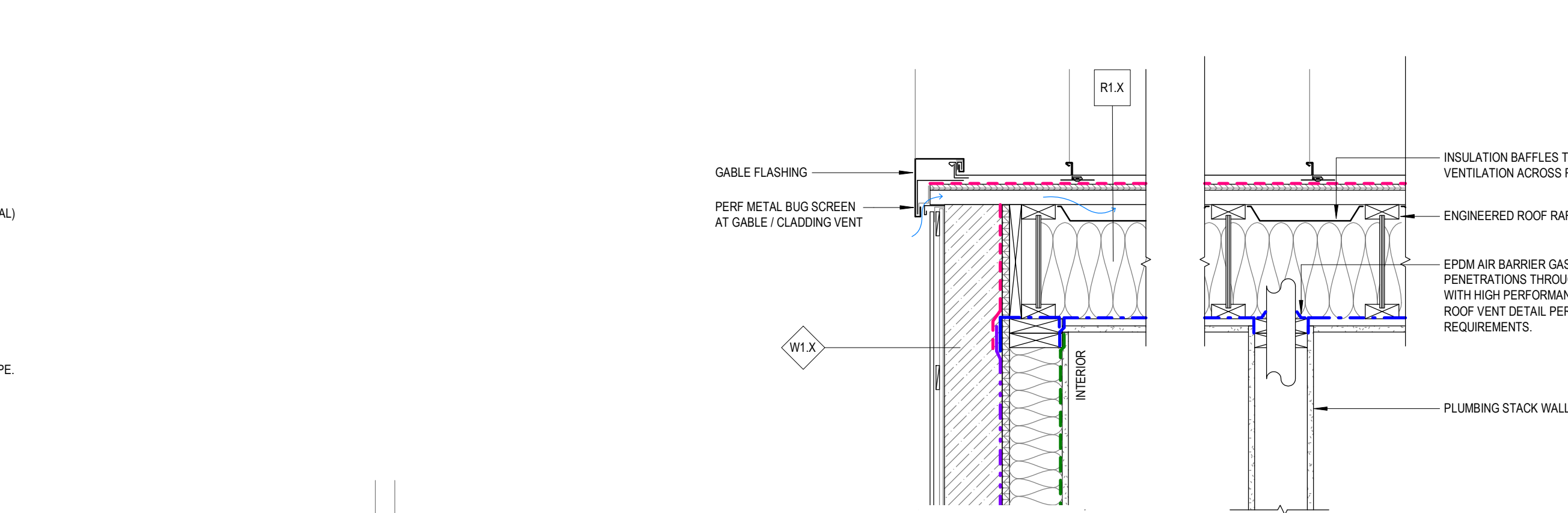
2
A006
TYP. FLOOR TO FLOOR - SAME UNIT
1" = 1'-0"



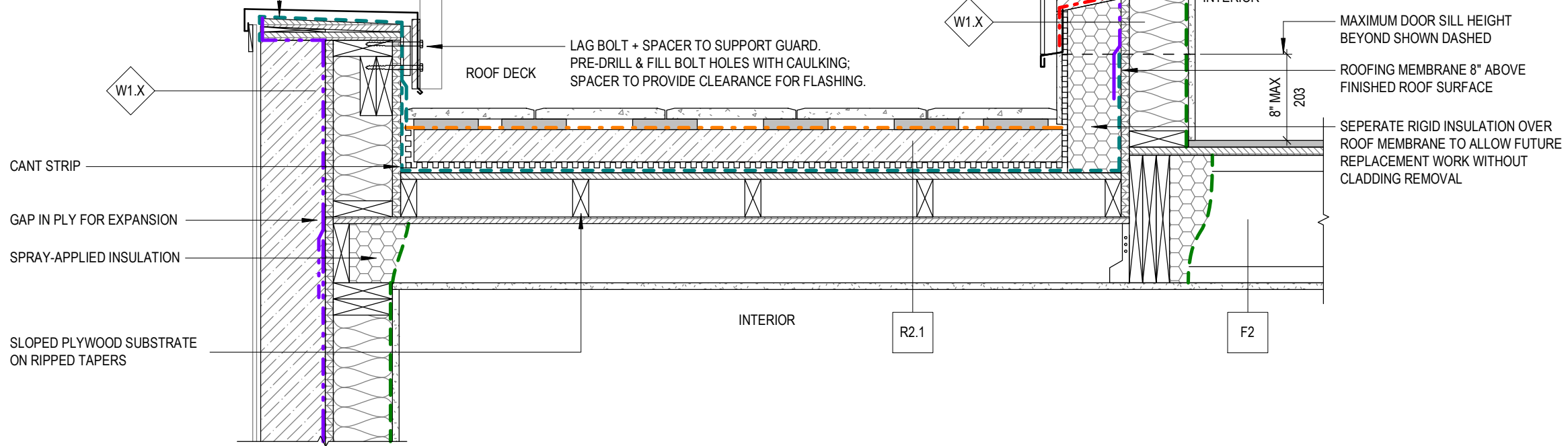
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A006
TYP. FLOOR TO FLOOR - FRR
1" = 1'-0"



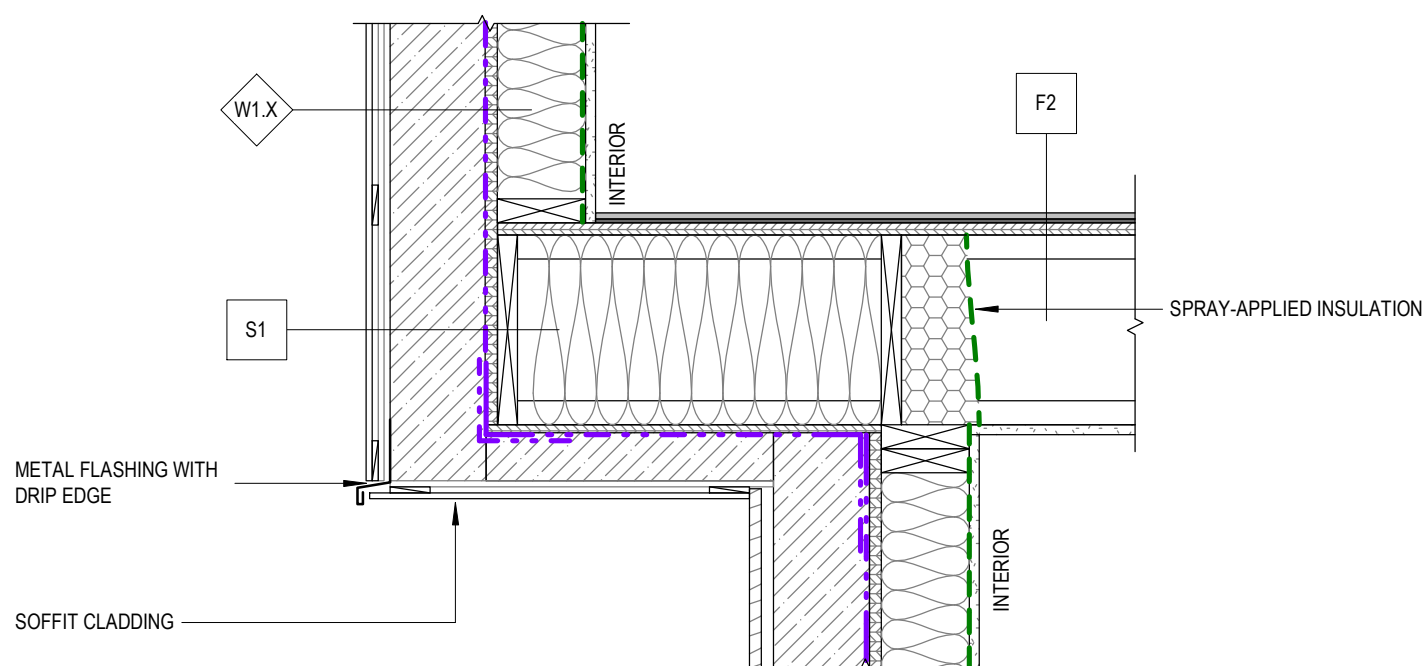
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TYP. FOOTING TO WALL
1" = 1'-0"



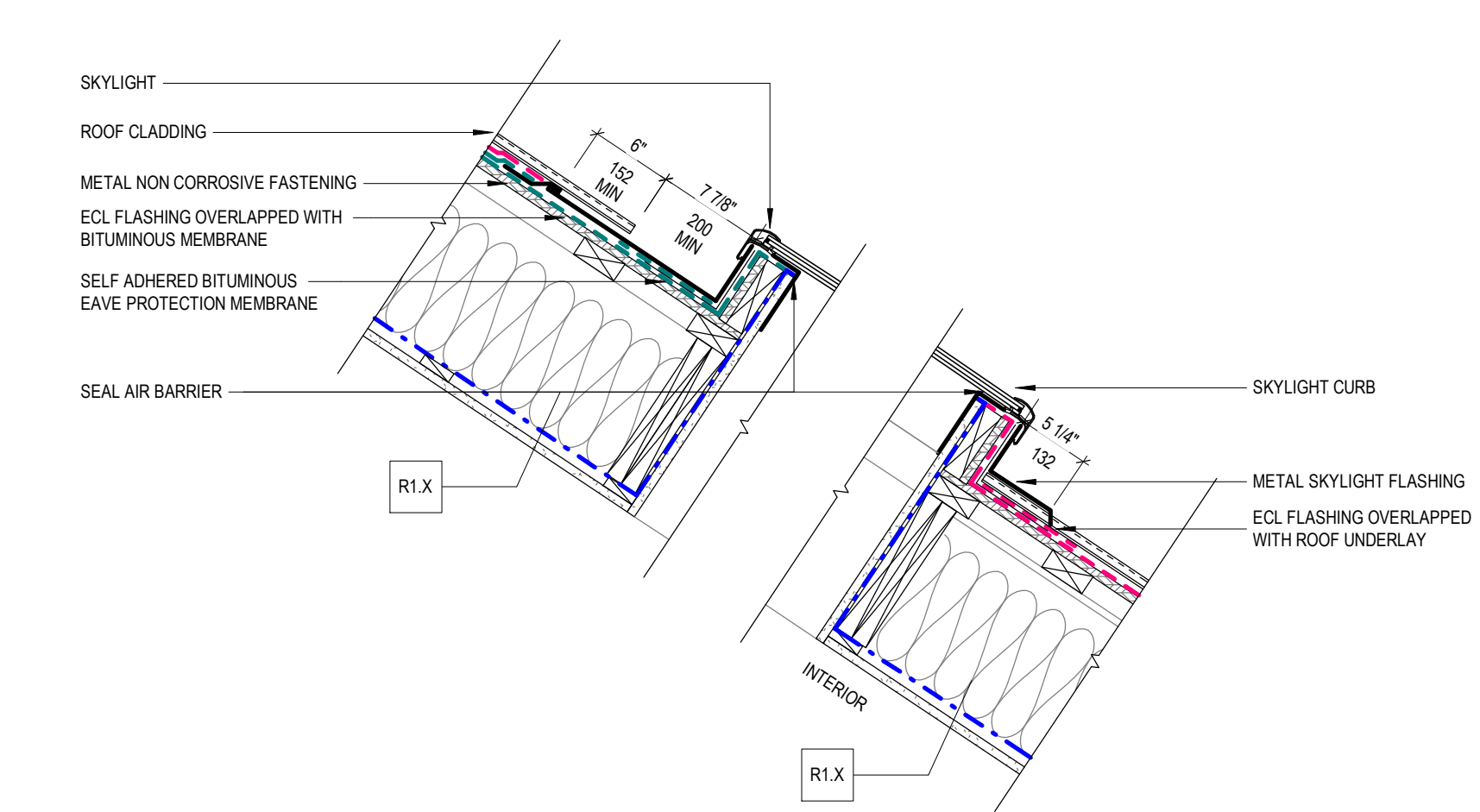
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TYP. WALL TO ROOF - GABLE END
1" = 1'-0"



6
A006
TYP. ROOF DECK
1" = 1'-0"

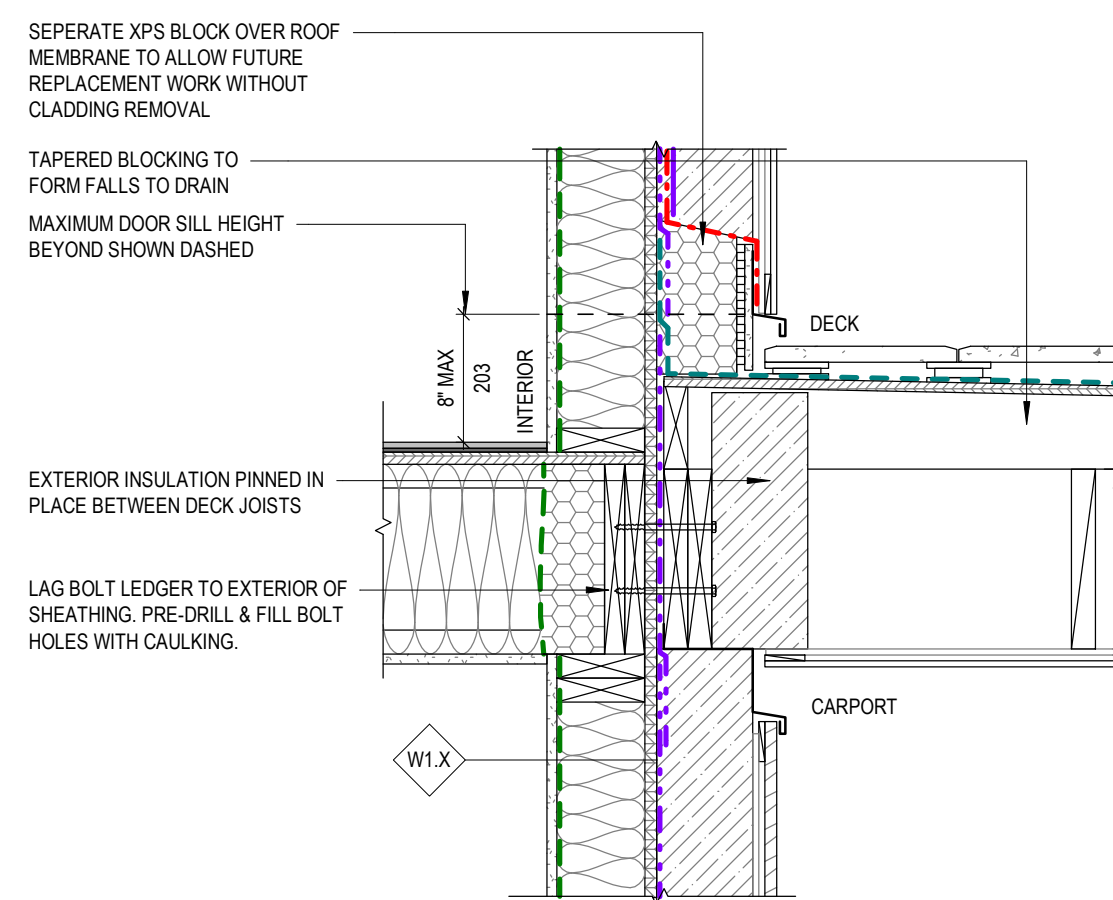


7
A006
TYP. OVERHANG WITH CANOPY
1" = 1'-0"

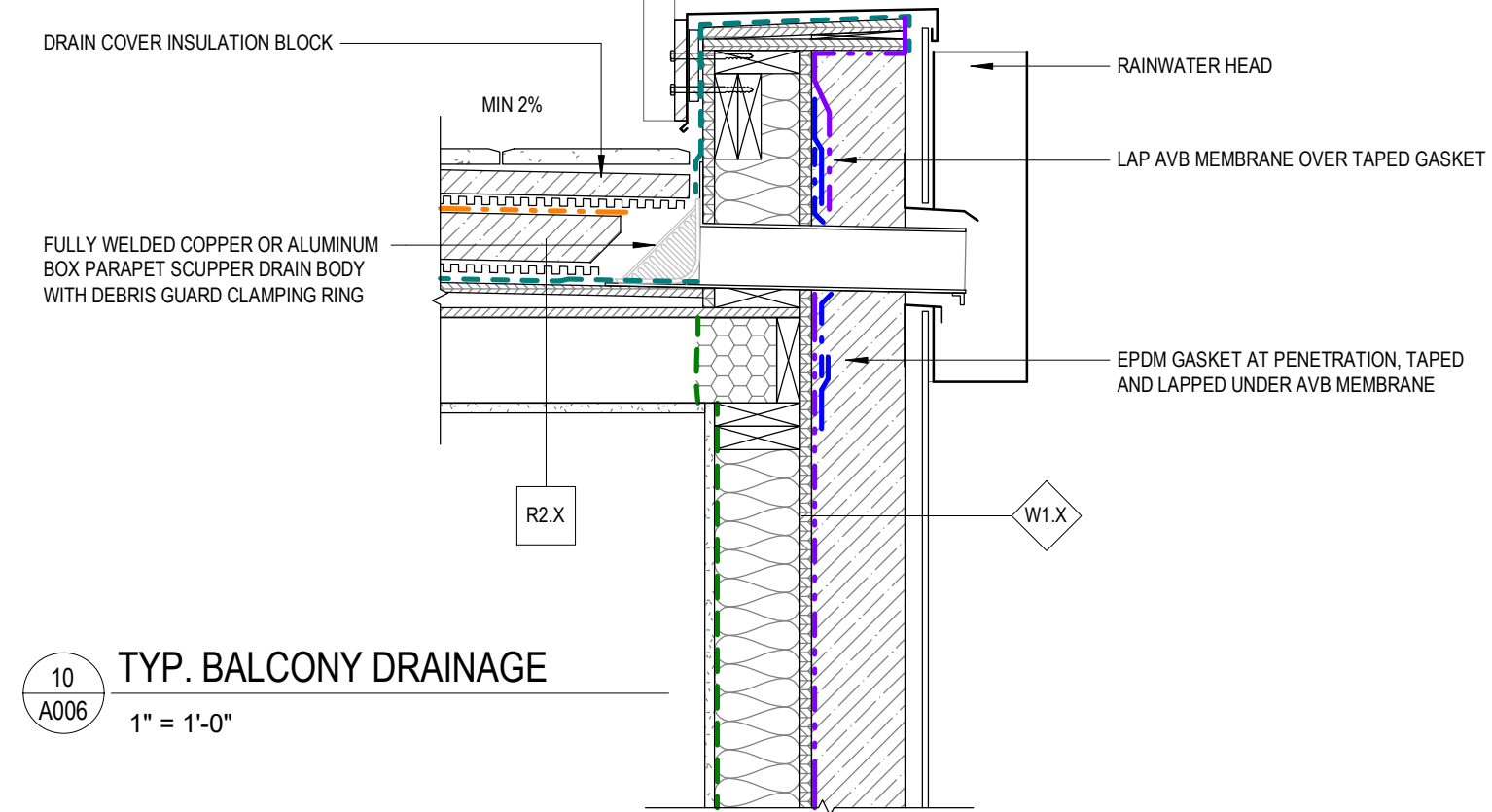


8
A006
SKYLIGHT - HEAD
1" = 1'-0"

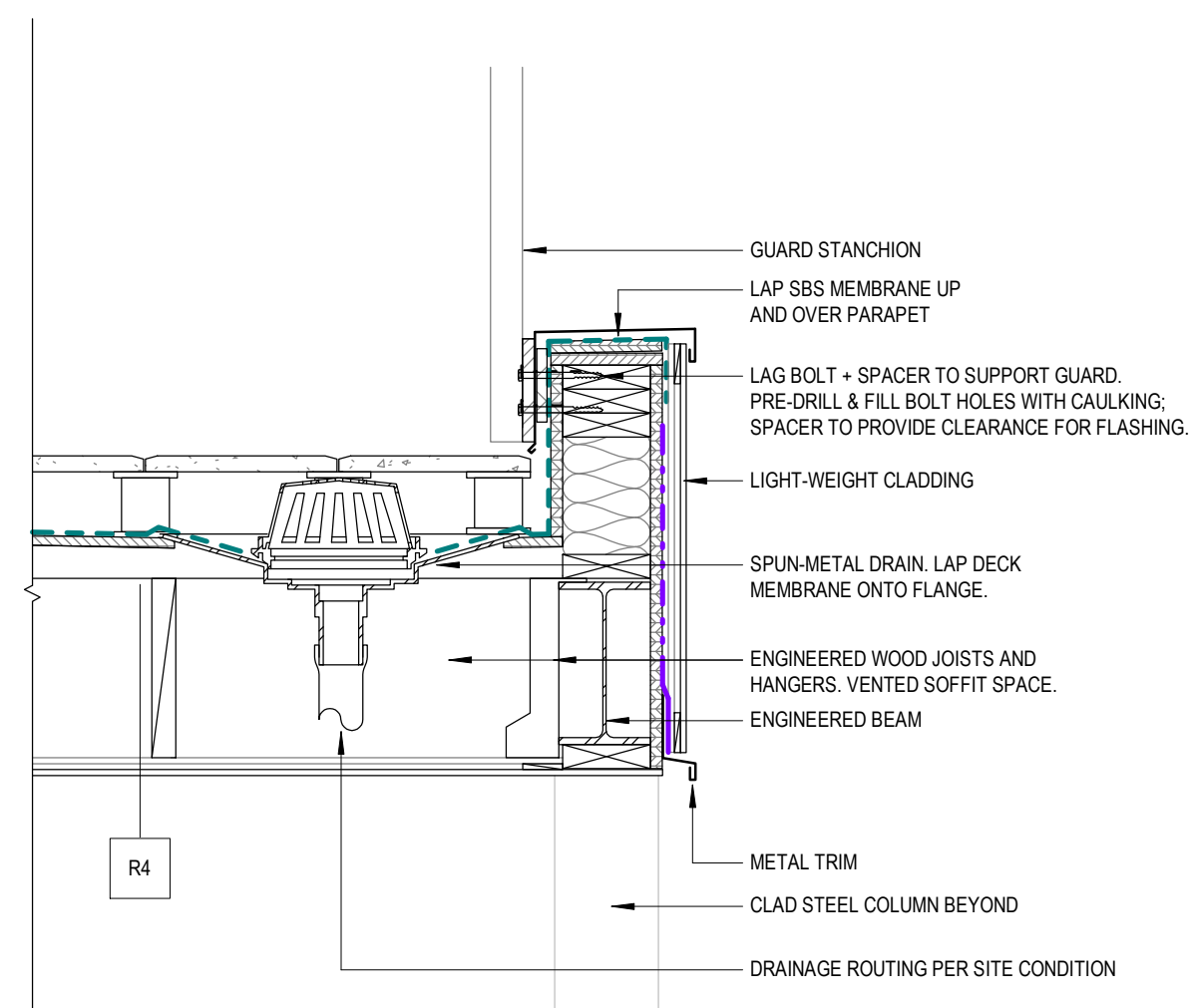
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SKYLIGHT - SILL
1" = 1'-0"



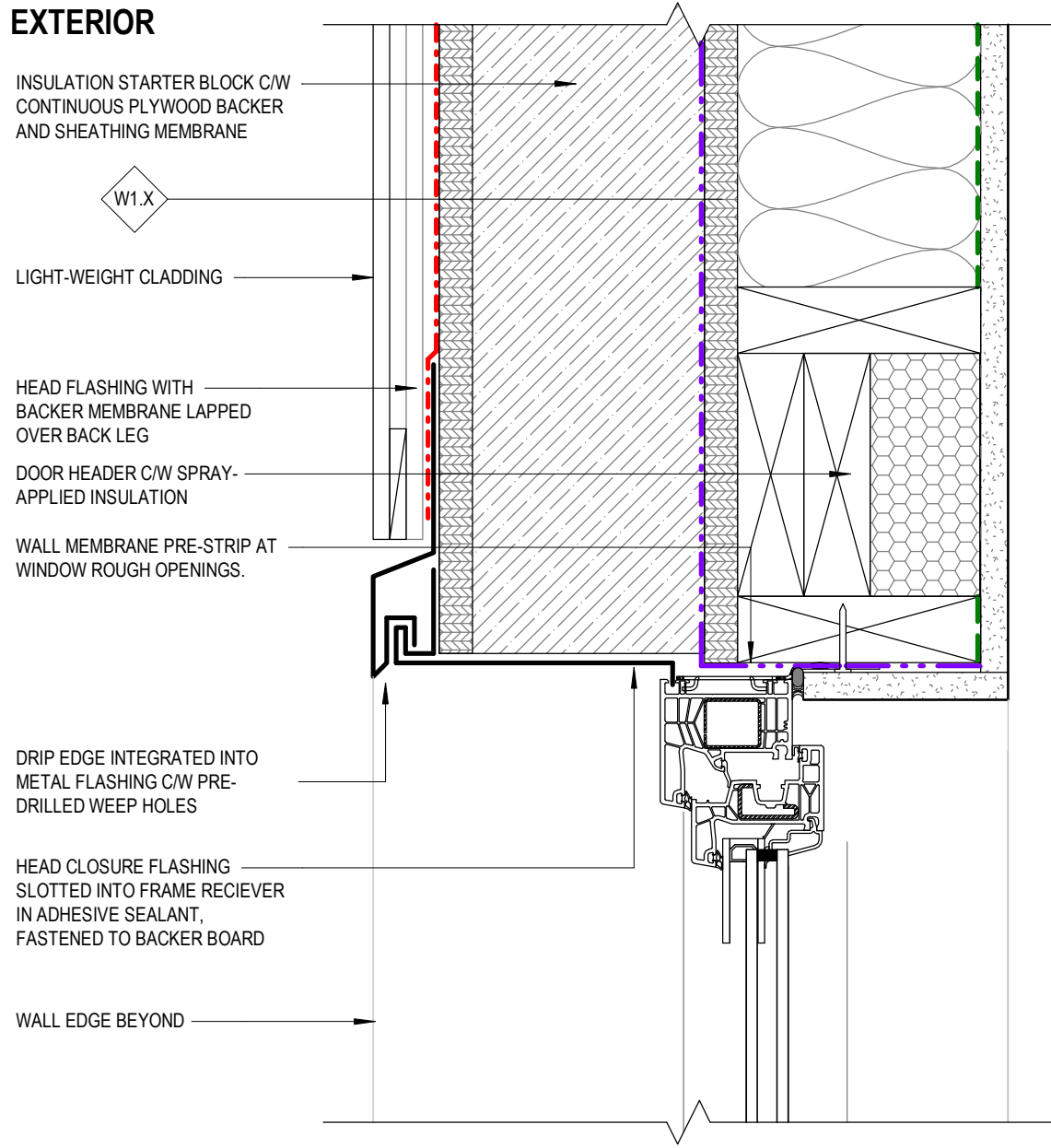
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A006
TYP. CAR PORT DECK
1" = 1'-0"



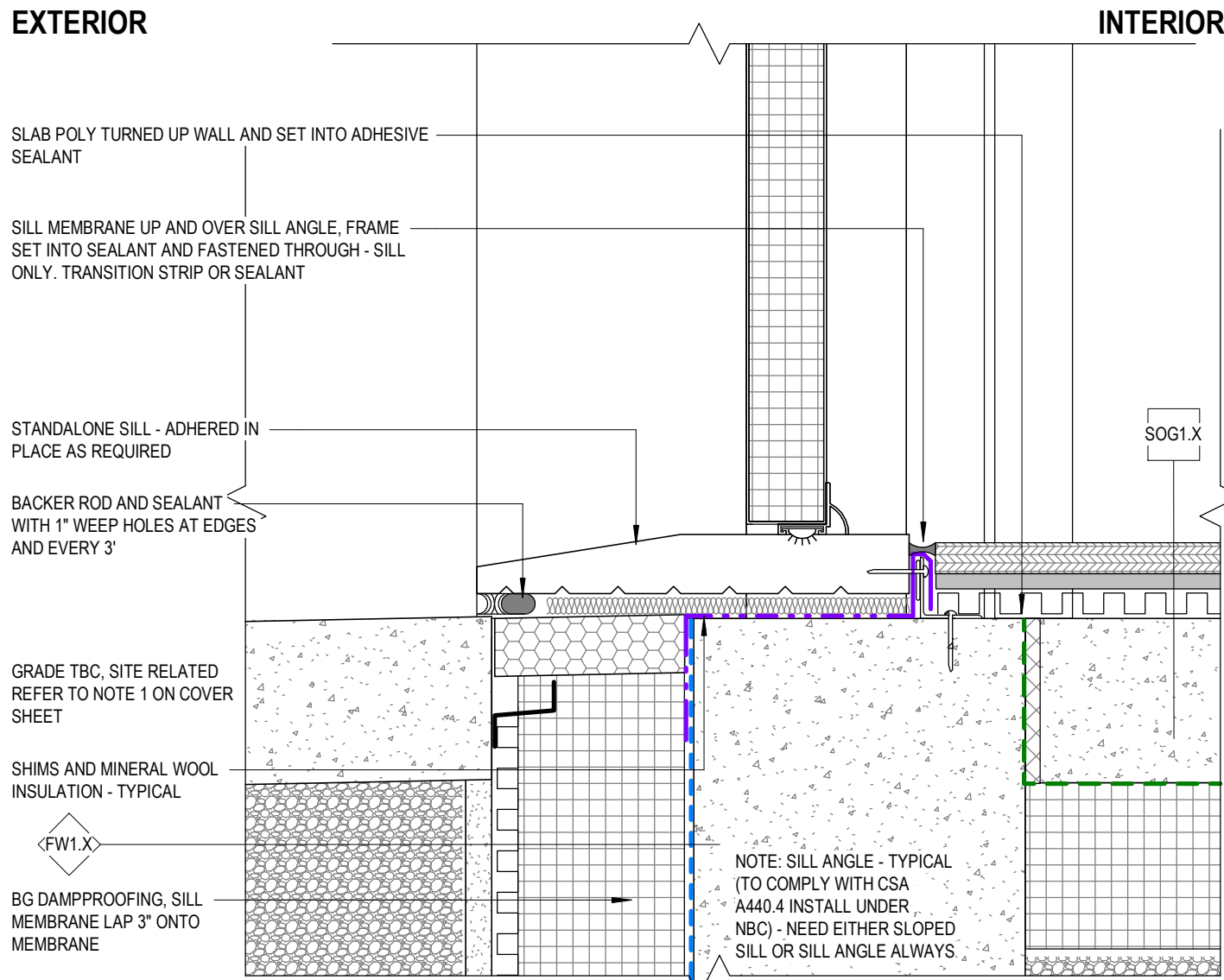
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A006
TYP. BALCONY DRAINAGE
1" = 1'-0"



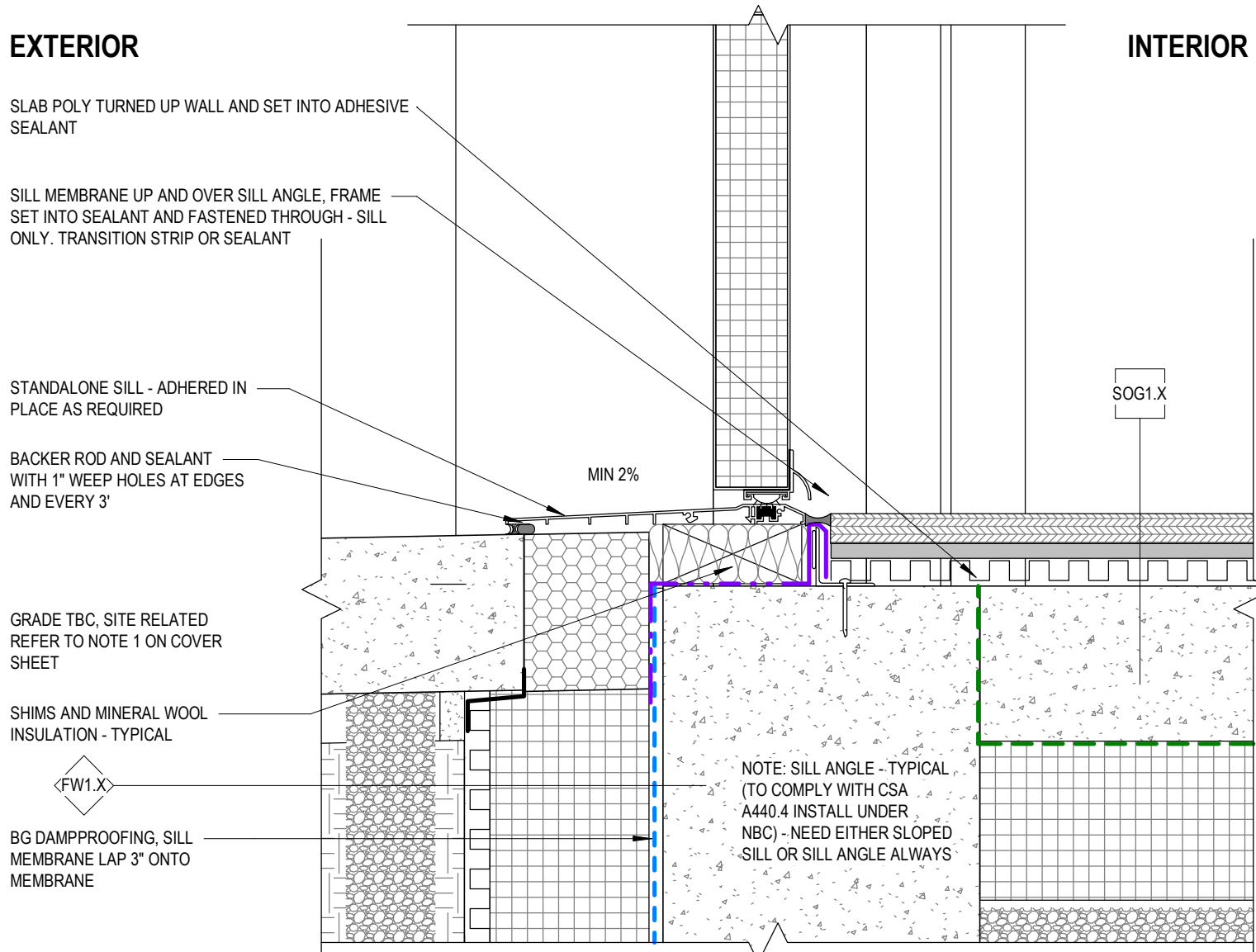
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A006
TYP. VALLEY GUTTER DETAIL
1" = 1'-0"



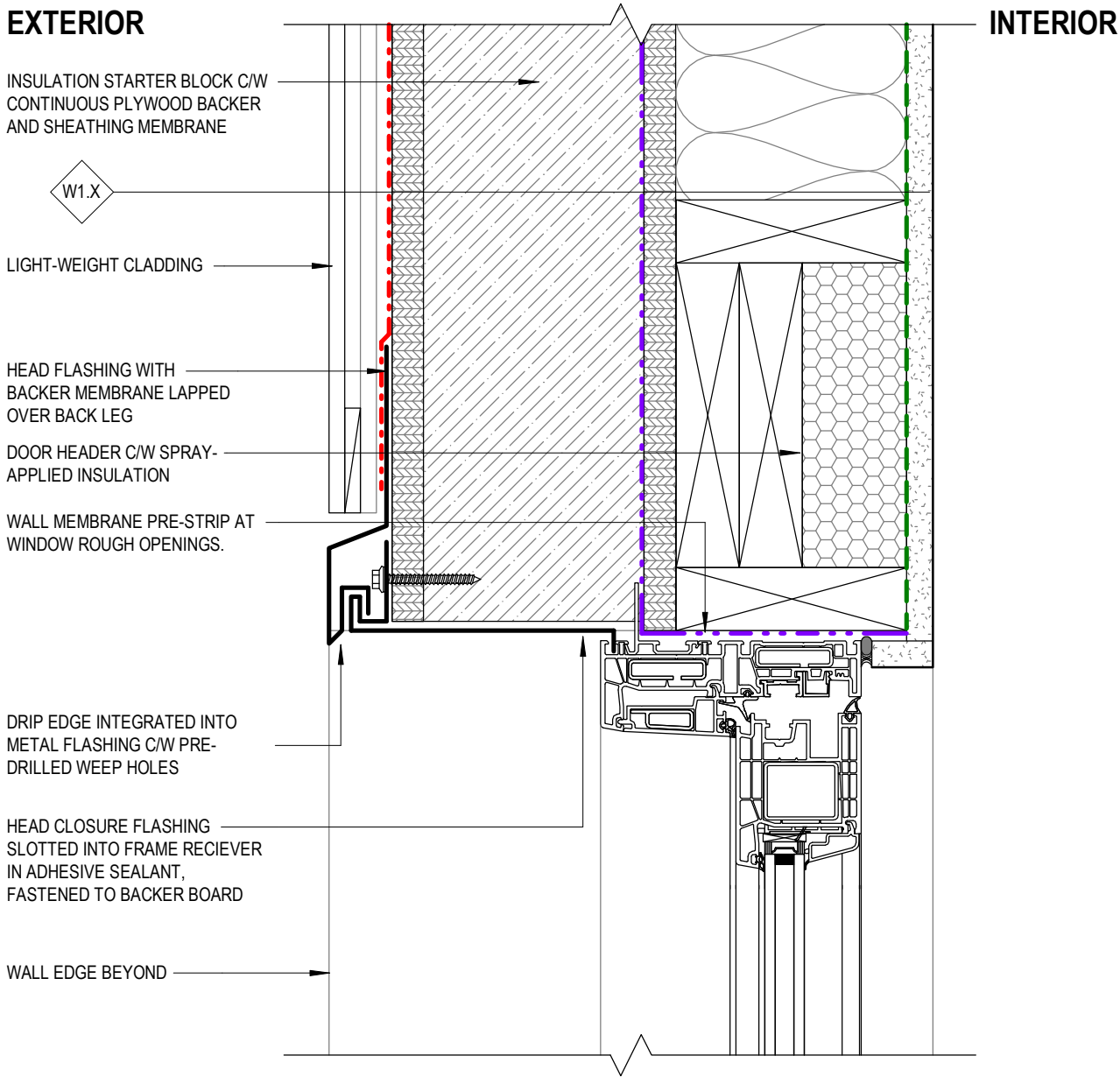
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A007 TYP EXTERIOR DOOR - HEAD
3" = 1'-0"



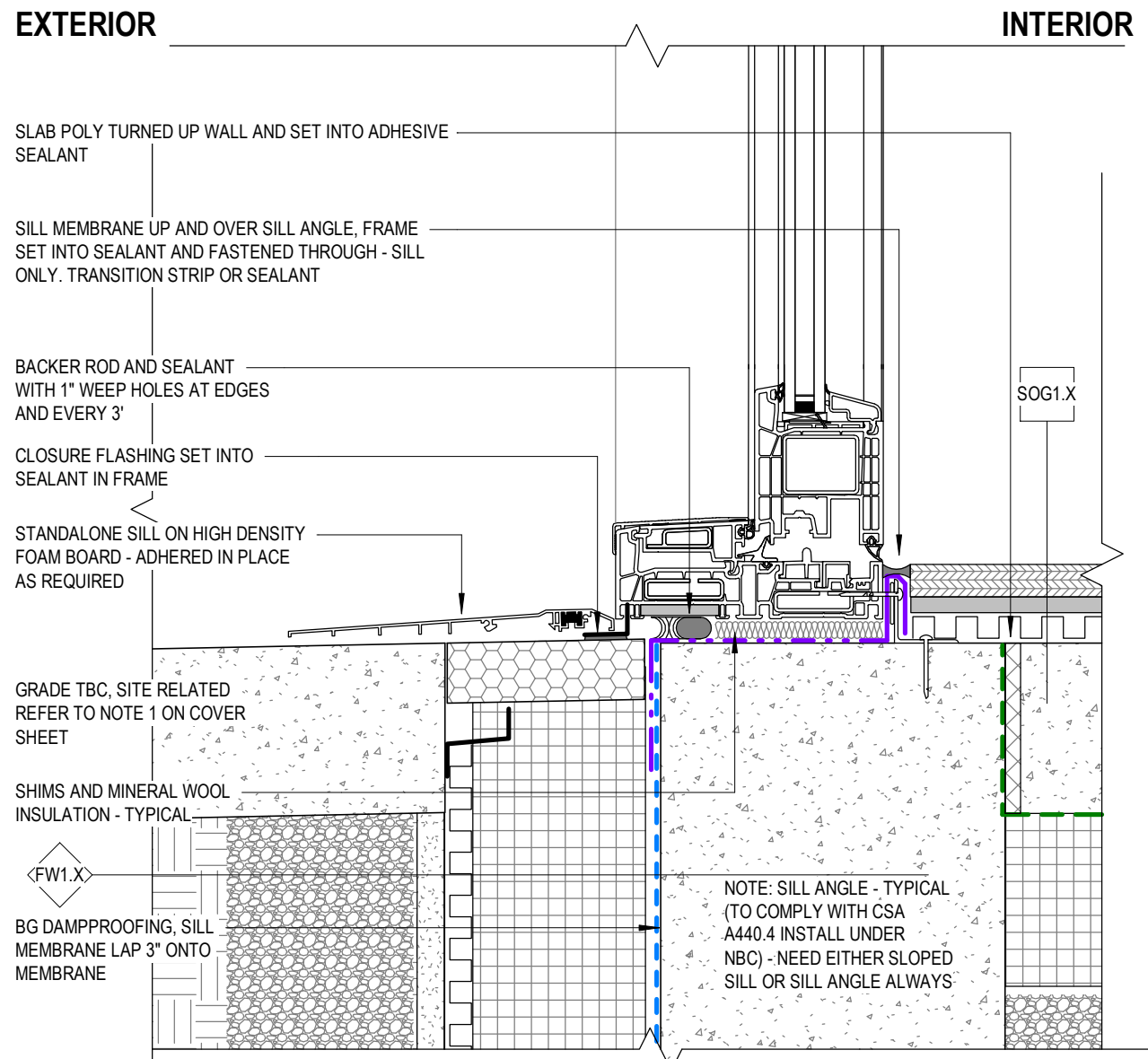
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A007 TYP EXTERIOR DOOR - SILL
3" = 1'-0"



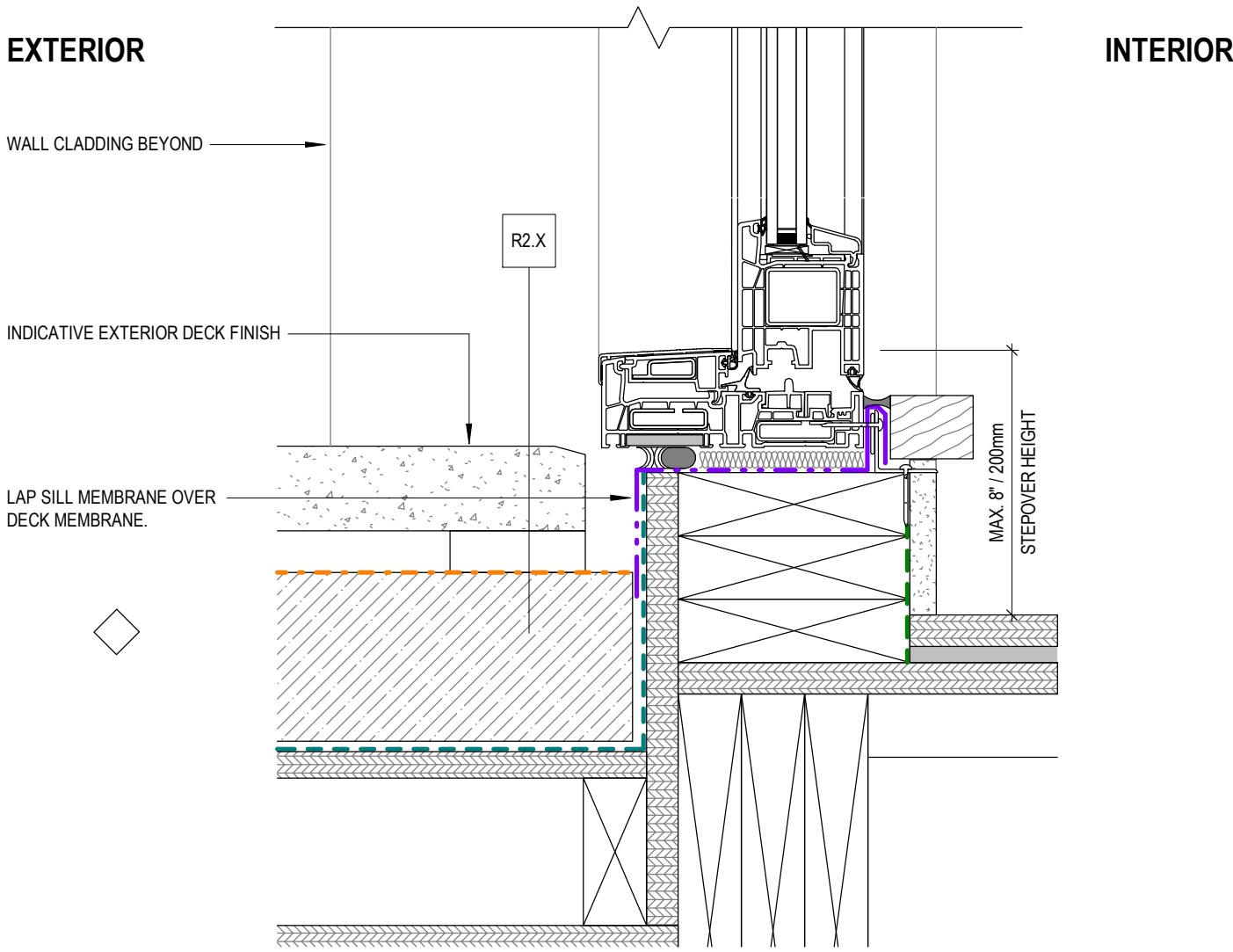
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A007 TYP EXTERIOR DOOR - ADAPTABLE SILL
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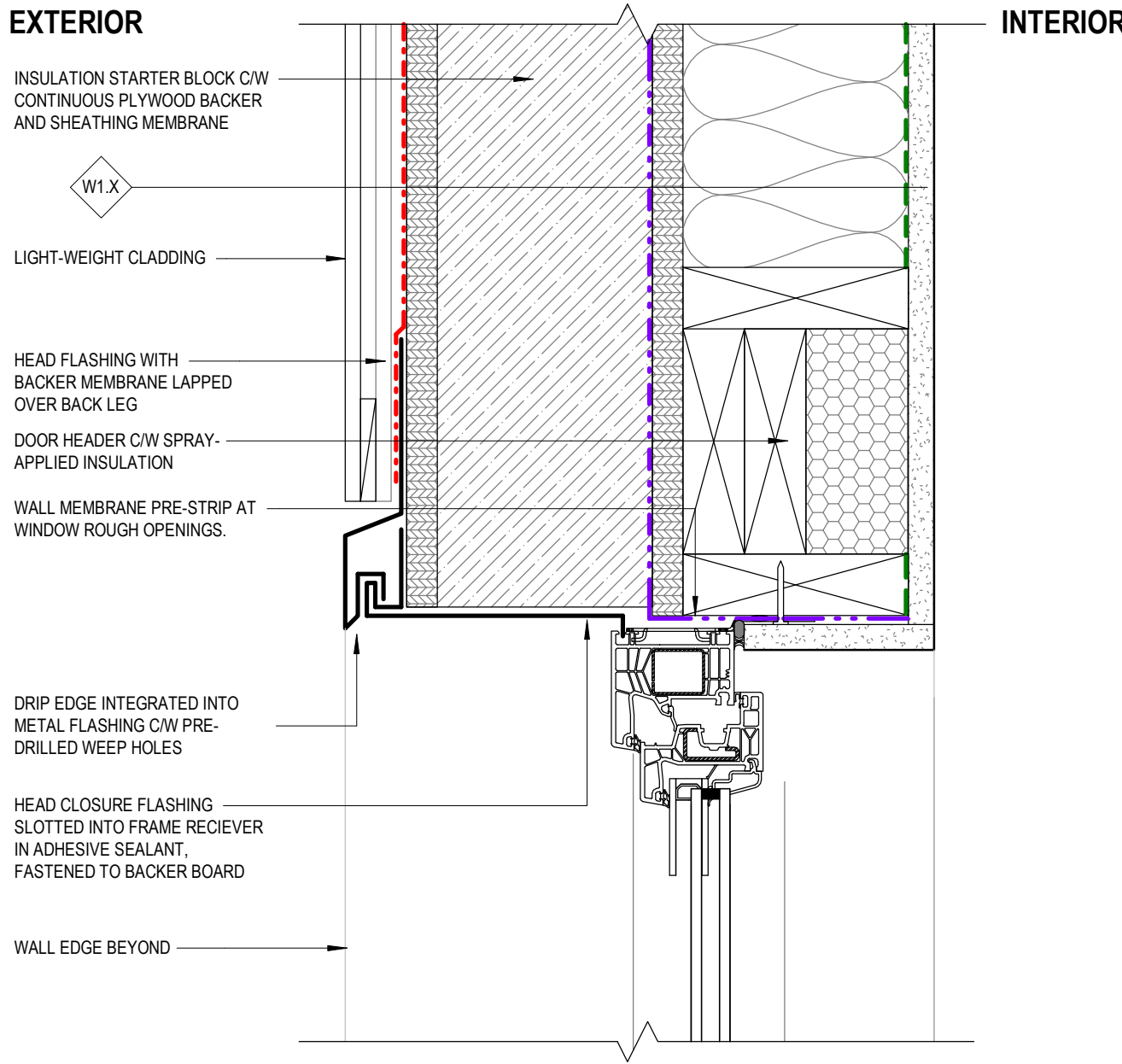
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A007 TYP SLIDING DOOR HEAD
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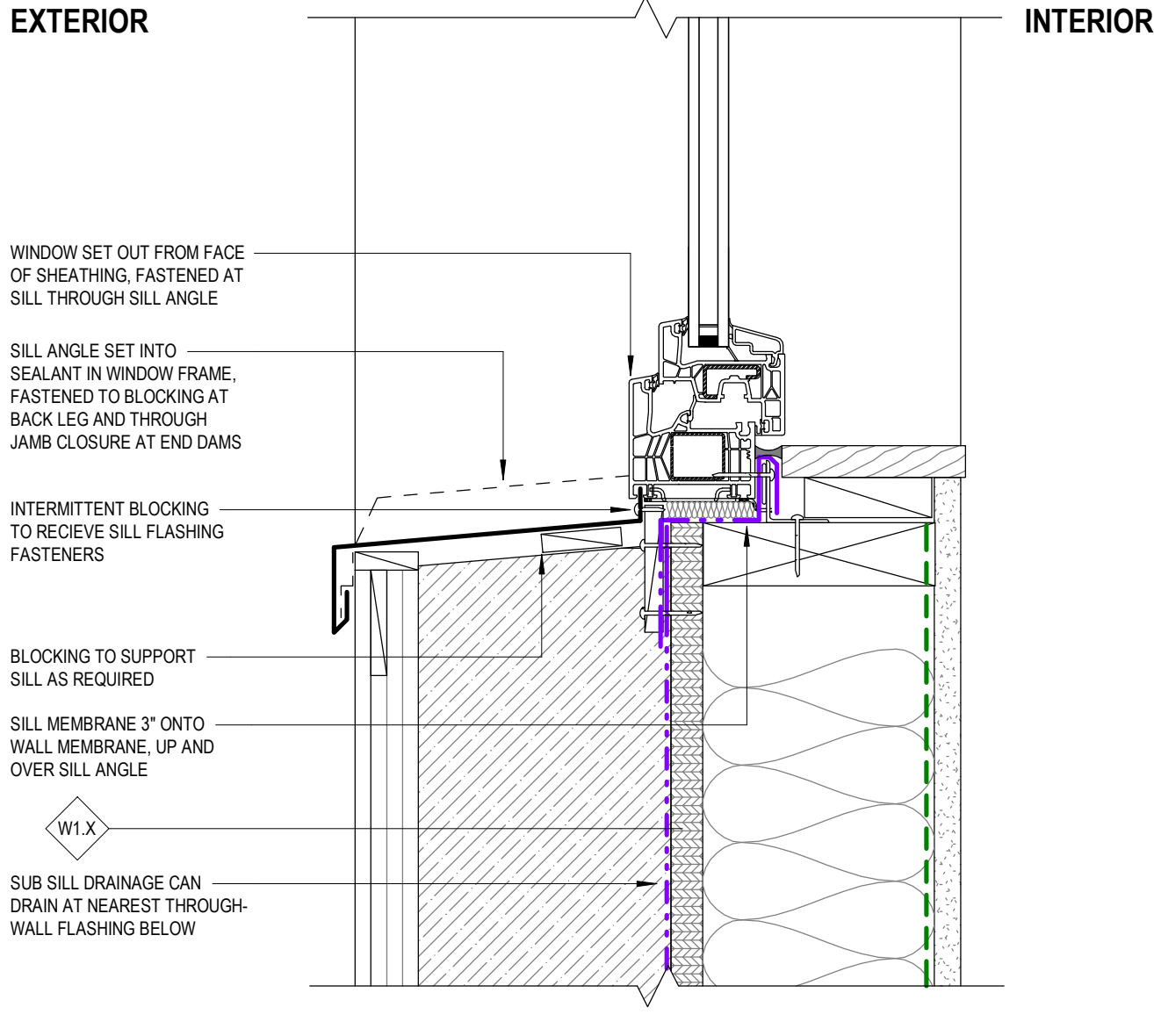
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A007 TYP SLIDING DOOR SILL
3" = 1'-0"



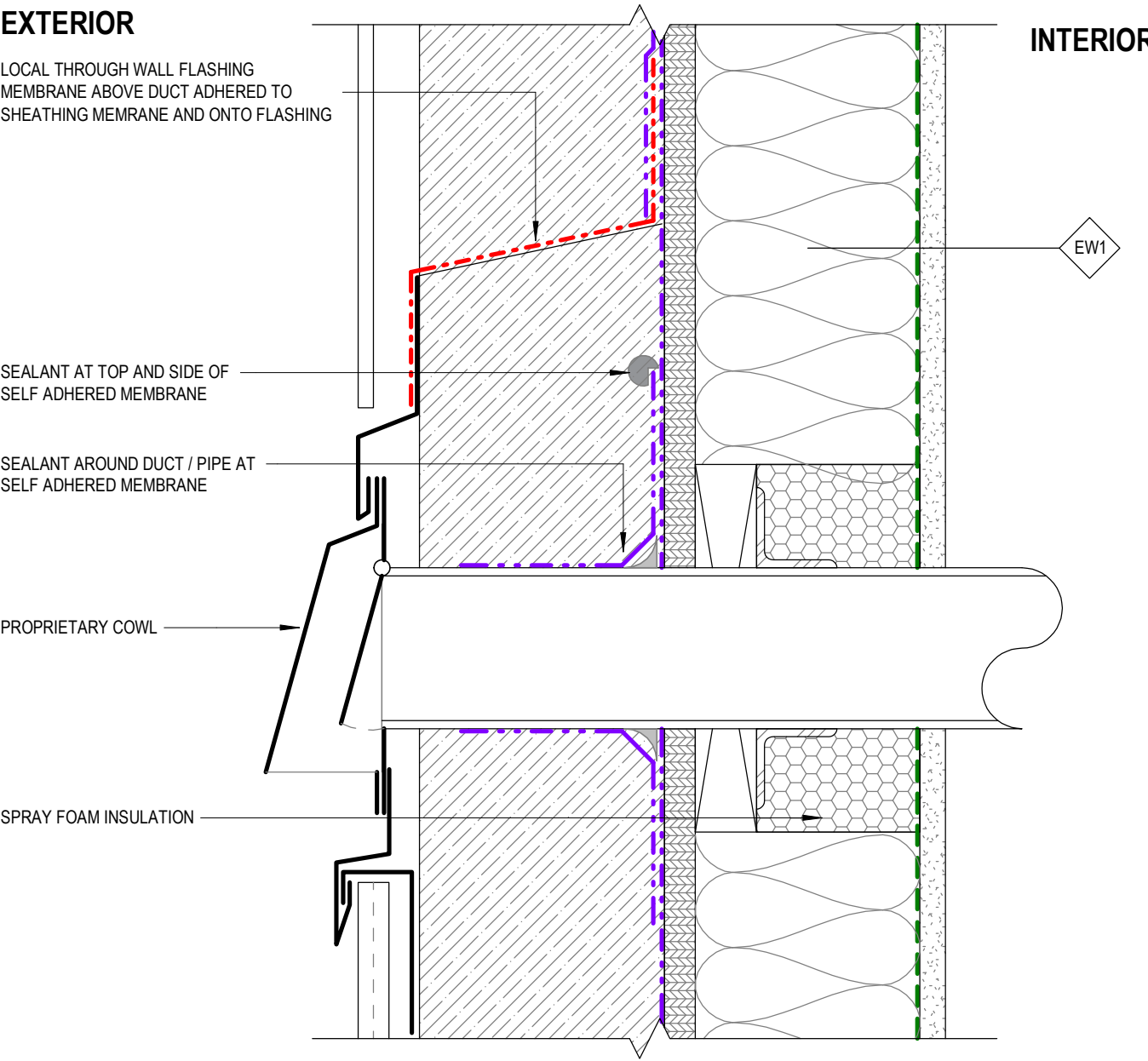
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A007 TYP SLIDING DOOR @ ROOF DECK
3" = 1'-0"



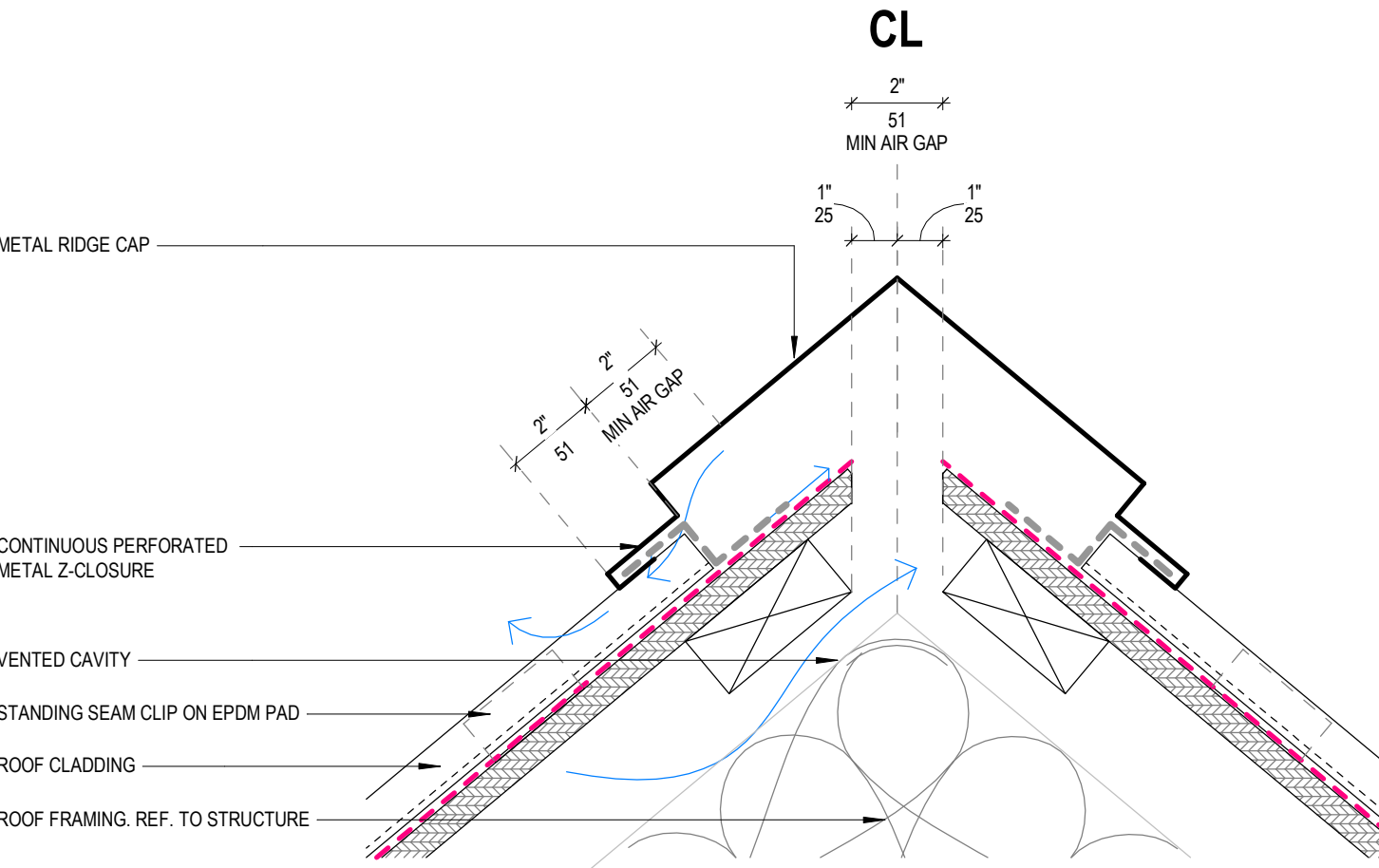
7
A007 TYP WINDOW - HEAD
3" = 1'-0"



6
A007 TYP WINDOW - SILL
3" = 1'-0"



9
A007 TYP. WALL PENETRATION
3" = 1'-0"



10
A007 TYP RIDGE DETAIL
3" = 1'-0"



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MEMBRANE LEGEND	
	AIR BARRIER, VAPOUR PERMEABLE
	AIR BARRIER, NON-VAPOUR PERMEABLE
	UV STABLE FILTER FABRIC
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING
	SBS ROOFING MEMBRANE
	IMPERMEABLE ROOFING UNDERLAY
INSULATION LEGEND	
	SEMI-RIGID INSULATION
	RIGID INSULATION 1
	RIGID INSULATION 2, HIGH DENSITY
	SPRAY FOAM
	STUD CAVITY IN-FILL INSULATION

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

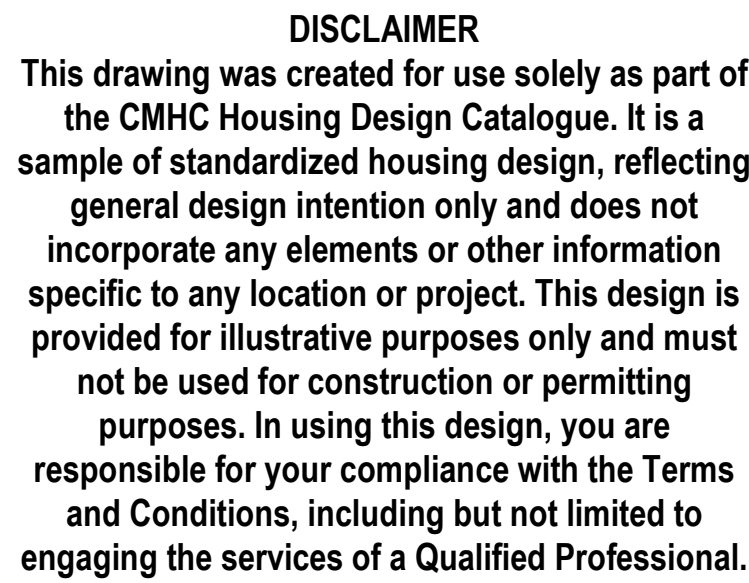
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TYPICAL DETAILS 2

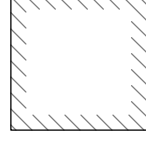
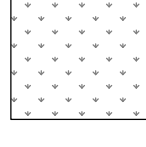
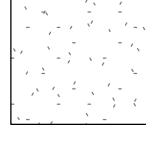
BC Rowhouse

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:
A007



SITE LEGEND

	ASSUMED PROPERTY LINE
	SETBACK
	BUILDING
	SOFTSCAPE
	HARDSCAPE

[illegible]

NO.	DATE	DESCRIPTION
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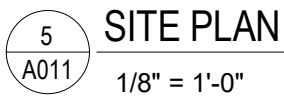
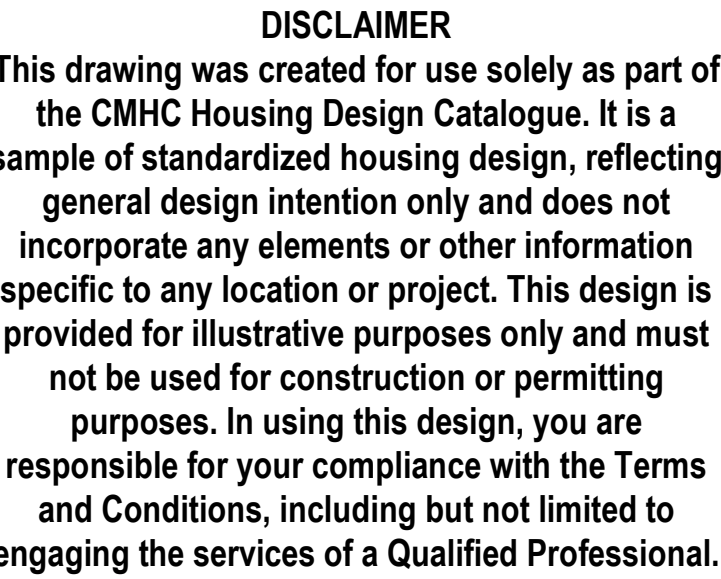
BRITISH COLUMBIA, CANADA

BC Rowhouse

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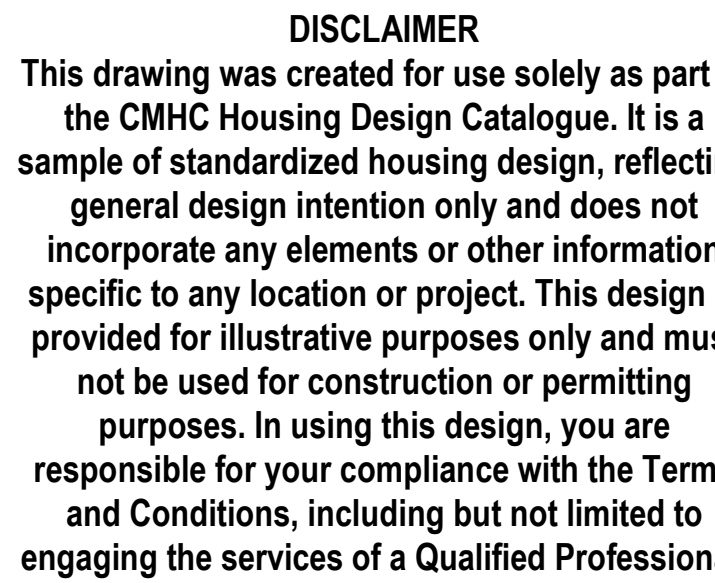
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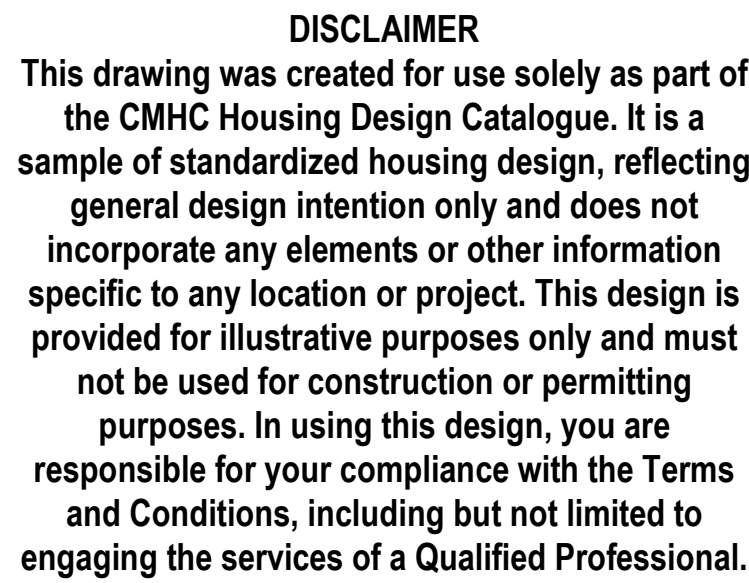


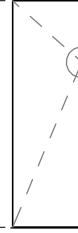
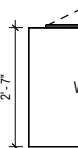
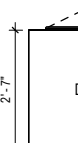
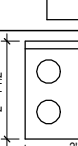
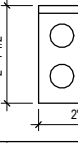
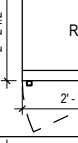
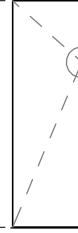
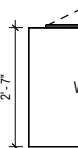
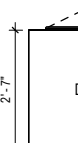
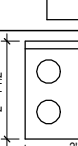
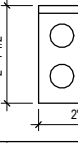
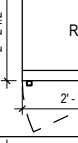
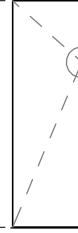
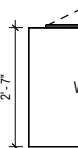
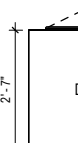
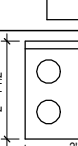
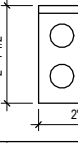
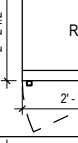
SHEET NO:

A011

[illegible]

A101



FIRE SEPARATION LEGEND  1HR FIRE RESISTANCE RATING																													
FLOOR PLAN KEYNOTES 01 LOCATION OF SOIL GAS DEPRESSURIZATION PER BCBC 9.13.4.3. RUN UNDERSLAB PIPES TO CENTER OF EACH SLAB THAT IS COMPARTMENTALIZED BY FOUNDATION WALLS. REFER ALSO TO MECHANICAL DRAWINGS.																													
FLOOR PLAN LEGEND <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">FLOOR MOUNTED TOILET</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;"> REFER TO PLAN  </td> <td style="text-align: center; vertical-align: middle;">SHOWER</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">ALCOVE TUB</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">KITCHEN SINK</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">WASHROOM SINK</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">WASHER</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">DRYER</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">BOILER</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">MECHANICAL / ELECTRICAL / PLUMBING</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">RANGE, TYPICAL</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">RANGE, NARROW</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">REFRIGERATOR</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">DISHWASHER</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">  </td> <td style="text-align: center; vertical-align: middle;">CLOSET COAT ROD</td> </tr> </table>			FLOOR MOUNTED TOILET	REFER TO PLAN 	SHOWER		ALCOVE TUB		KITCHEN SINK		WASHROOM SINK		WASHER		DRYER		BOILER		MECHANICAL / ELECTRICAL / PLUMBING		RANGE, TYPICAL		RANGE, NARROW		REFRIGERATOR		DISHWASHER		CLOSET COAT ROD
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	CLOSET COAT ROD																												

PROJECT:

CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA

**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE:

MAIN FLOOR PLAN - BCBC ADAPTABLE

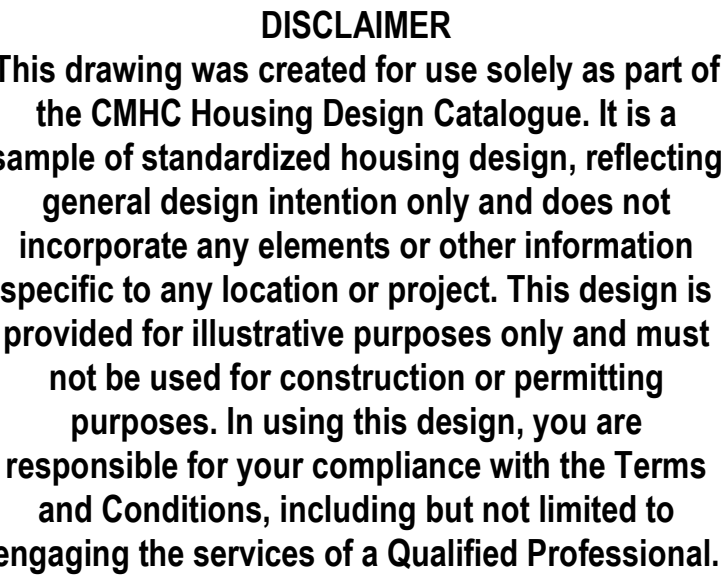
BC Rowhouse

PROJECT NO: 241058

SCALE: As indicated

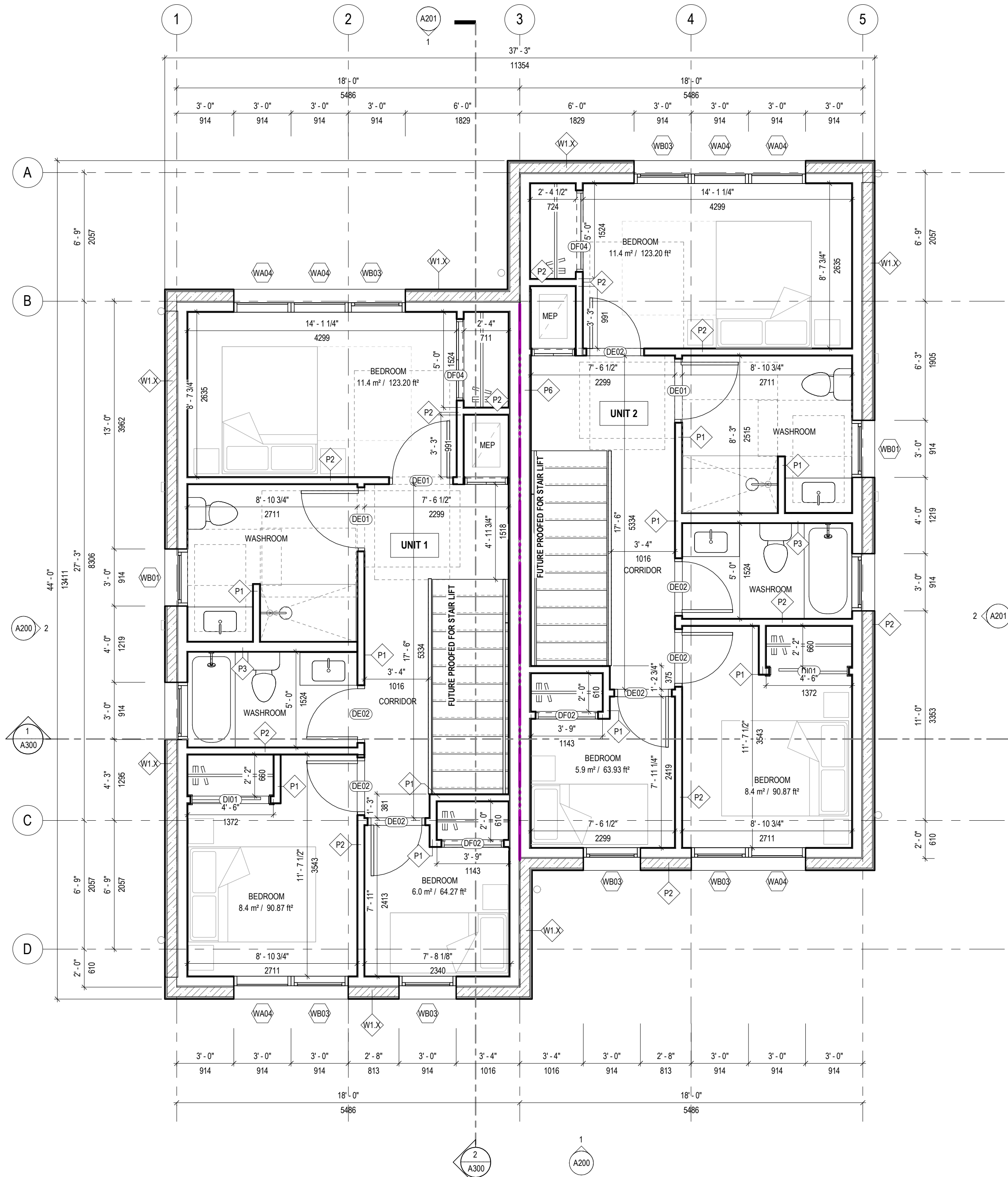


1 MAIN FLOOR PLAN - ADAPTABLE
A101a 1/4" = 1'-0"



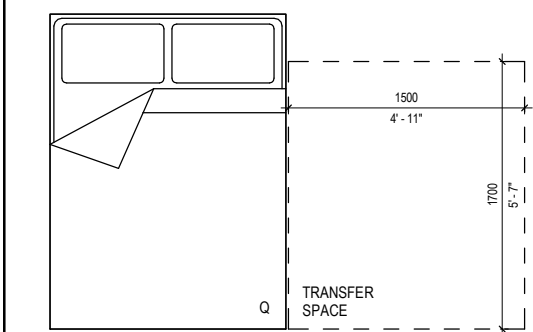
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NO.	DATE	DESCRIPTION

A102



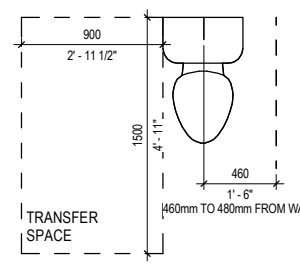
1 SECOND FLOOR PLAN - BCBC ADAPTABLE
A102a 1/4" = 1'-0"

ADAPTABILITY NOTES PER BCBC 3.8.5



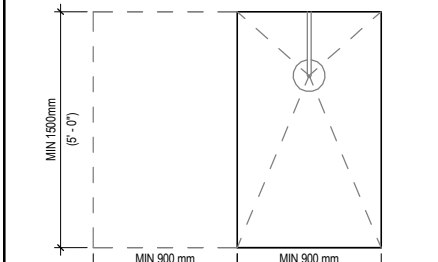
BED TRANSFER SPACE

*SPACES TO CONFORM TO BCBC 3.8.5.6 FOR LATERAL TRANSFER SPACES AND PATHWAY CLEARANCE



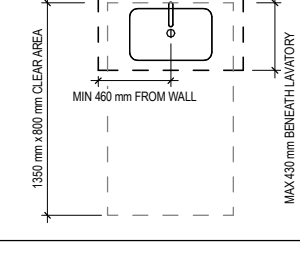
BCBC TOILET TRANSFER SPACE

BCBC 3.8.5.7 (11) WALLS ADJACENT THE WATER CLOSET AND SHOWER LOCATION REINFORCED TO ACCOMMODATE THE FUTURE INSTALLATION OF GRAB BARS.



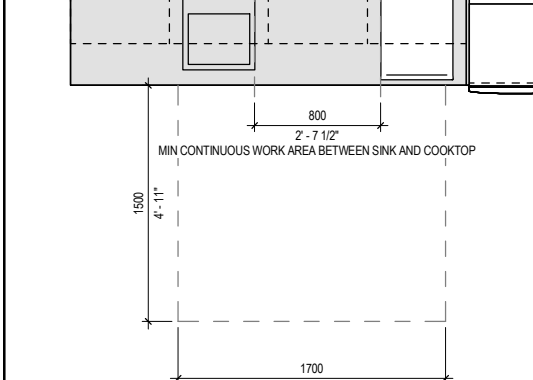
ADAPTABLE ROLL-IN SHOWER

*PLUMBING SYSTEM SHALL ACCOMMODATE FUTURE INSTALLATION OF A SHOWER LOCATION REINFORCED TO ACCOMMODATE THE FUTURE INSTALLATION OF GRAB BARS.



SINK, ADAPTABLE

*PLUMBING SYSTEM SHALL ACCOMMODATE FUTURE INSTALLATION OF A LAVATORY WITH REQUIREMENTS AS DESCRIBED IN CLAUSES 3.8.3.14 (1) (b) (i) (ii)



KITCHEN MILLWORK

BCBC 3.8.5.5.3 PLUMBING SYSTEM AND CABINETWORK SHALL ACCOMMODATE FUTURE INSTALLATION OF A LAVATORY WITH REQUIREMENTS AS DESCRIBED IN CLAUSES 3.8.3.14 (1) (b) (i) (ii)

FIRE SEPARATION LEGEND

1HR FIRE RESISTANCE RATING

FLOOR PLAN KEYNOTES

D1 LOCATION OF SOIL GAS DEPRESSURIZATION PER BCBC 9.13.4.3. RUN UNDERSLAB PIPES TO CENTER OF EACH SLAB THAT IS COMPARTMENTALIZED BY FOUNDATION WALLS. REFER ALSO TO MECHANICAL DRAWINGS.

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	SHOWER
	ALCOVE TUB
	KITCHEN SINK
	WASHROOM SINK
	WASHER
	DRYER
	BOILER
	MECHANICAL / ELECTRICAL / PLUMBING
	RANGE, TYPICAL
	RANGE, NARROW
	REFRIGERATOR
	DISHWASHER
	CLOSET COAT ROD

EXTERIOR ENTRY / INTERIOR DOOR - BCBC ADAPTABLE

	EXTERIOR ENTRY / INTERIOR DOORS
	CLOSET DOORS



DISCLAIMER

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1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:

SECOND FLOOR PLAN -
BCBC ADAPTABLE

BC Rowhouse

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A102a

ROOF PLAN GENERAL NOTES

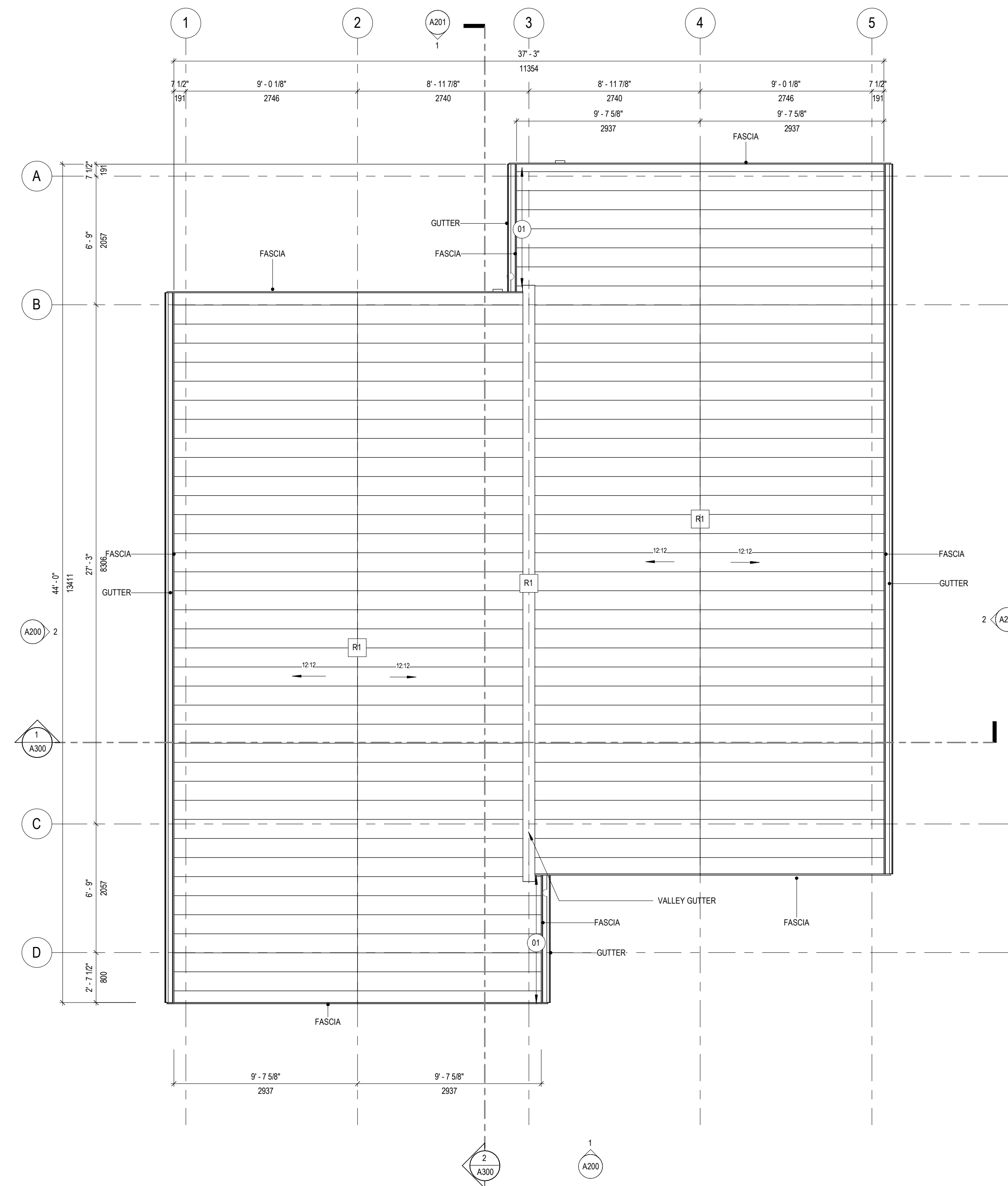
1. SNOW GUARDS SHOULD BE INSTALLED AT ROOF EAVES
ADJACENT TO PATHS OF EGRESS AND/OR ENTRY

ROOF PLAN KEYNOTES

- 01 POTENTIAL SNOW GUARD LOCATION, REVISE BASED ON SITE FACTORS

ROOF VENTING CALCULATIONS

AREA OF ROOF [A]:	2123.2sf
AREA OF VENTILATION REQUIRED (A/300):	7.077sf (1019/1 sq in [B])
LENGTH OF ROOF EDGE AT GABLES:	114' (1368 in [C])
AVG FREE AREA DEPTH REQUIRED ALONG GABLE (B/C):	.74 in



1 ROOF PLAN
A104
1/4" = 1'-0"



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[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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OR CONSTRUCTION

SHEET TITLE:

ROOF PLAN

BC Rowhouse

PROJECT NO: 241058
SCALE: 1/4" = 1'-0"

SHEET NO:

A104



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1 BUILDING ELEVATION - FRONT
A200 1/4" = 1'-0"

[illegible]CMHC HOUSING DESIGN
CATALOGUE

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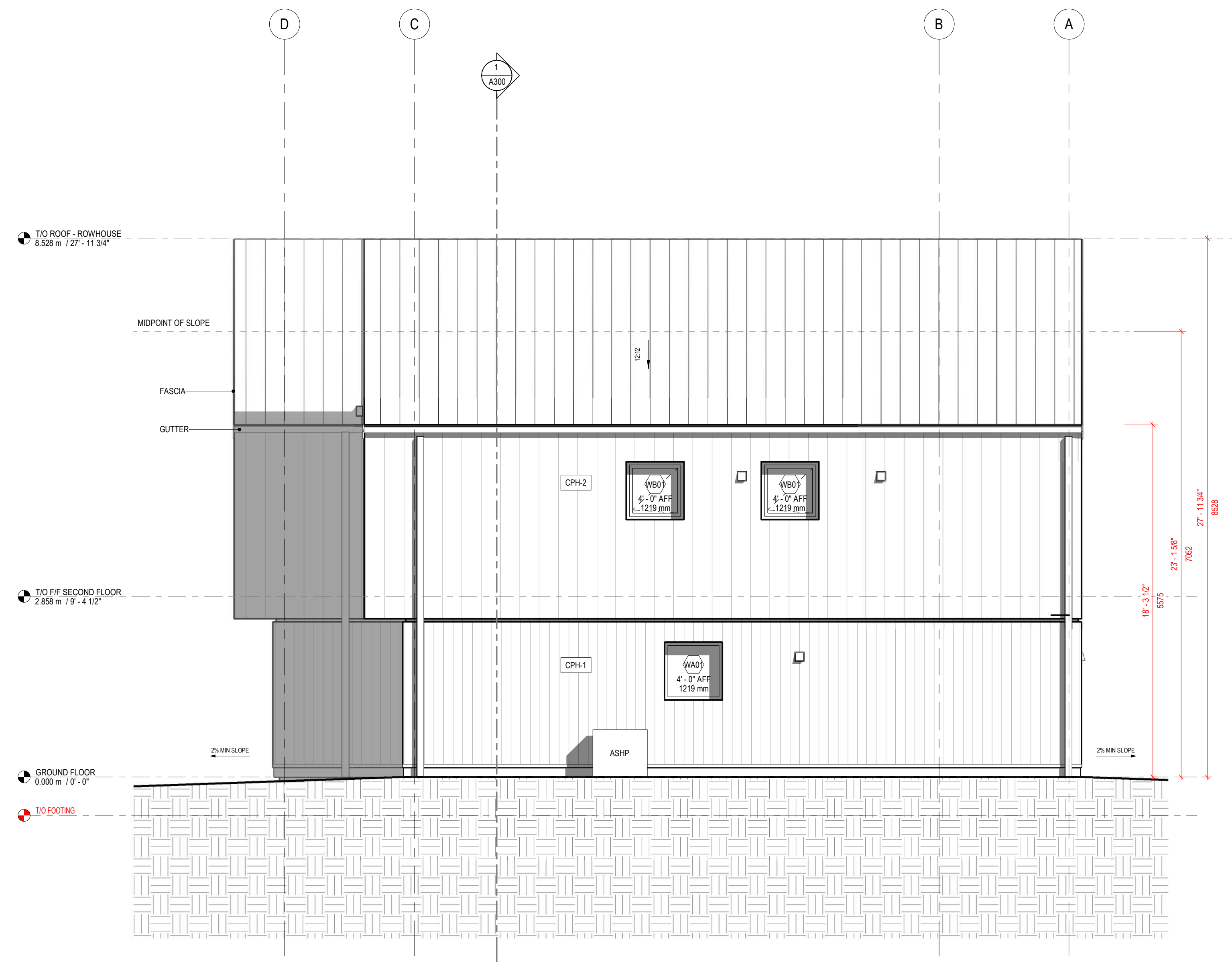
ELEVATIONS

PROJECT NO: 241058
SCALE: 1/4" = 1'-0"

A200



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2 BUILDING ELEVATION - SIDE 1
A201 1/4" = 1'-0"

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

NOT FOR PERMIT
OR CONSTRUCTION

BC Rowhouse

SHEET NO:

A201

CMHC HOUSING DESIGN CATALOGUE

BC ROWHOUSE

STRUCTURAL DRAWINGS

STRUCTURAL SHEET LIST	
S000	COVER SHEET
S001	GENERAL NOTES AND SCHEDULES
S101	FOUNDATION / MAIN FLOOR PLAN
S102	SECOND FLOOR PLAN
S104	ROOF PLAN



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[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:

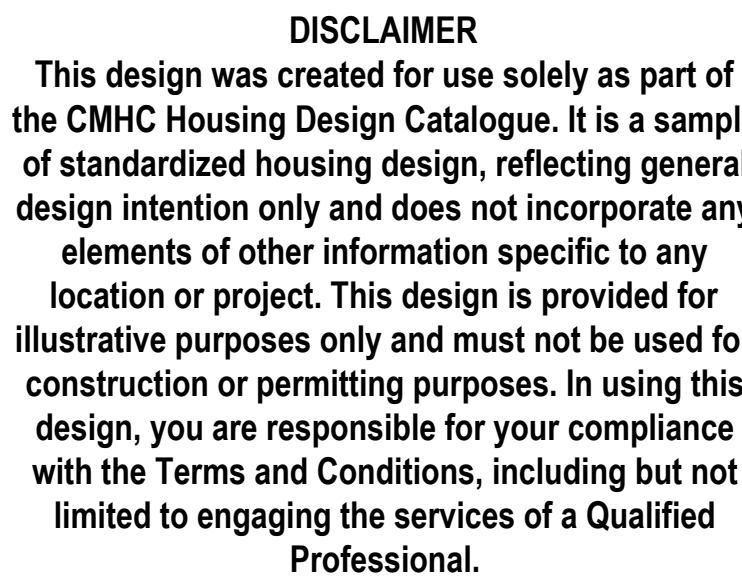
COVER SHEET

BC ROWHOUSE

PROJECT NO: 241058
SCALE: NTS

SHEET NO:

S000



NOTE: SEE SECTIONS, DETAILS AND STRUCTURAL NOTES FOR ADDITIONAL INFORMATION INCLUDING BASE OF WALL ANCHORAGE.

The diagram illustrates a cross-section of a wall assembly. At the top, a horizontal line represents the roof or ceiling structure. Below this, a thick horizontal line is labeled 'W-' with an arrow pointing to it. Underneath the 'W-' line is a hatched rectangular area labeled 'SW-' with an arrow pointing to it. To the right of the 'SW-' area, there is a vertical line labeled 'JACK STUDS INDICATED ON PLAN' with an arrow pointing to it. Below the 'SW-' area, there is a horizontal line labeled 'KING STUDS, NOT DRAWN ON PLAN SEE GENERAL NOTES' with an arrow pointing to it. At the bottom, there is a horizontal line labeled 'HOLDOWN - SEE PLAN AND SCHEDULE' with an arrow pointing to it. On the left side, there is a vertical line labeled '2-30# HD (2X8)' with an arrow pointing to it. At the bottom left, there is a small square labeled 'HD-' with an arrow pointing to it.

W- LOAD BEARING STUD WALL - SEE SCHEDULE FOR STUD SIZE AND SPACING.

SW- SHEAR WALL SHEATHING ONE SIDE - SEE PLAN AND SHEAR WALL SCHEDULE.

SHEATHING TO BE INSTALLED ON THE SIDE OF THE WALL MARKED WITH THE "SW-" TAG

JACK STUDS INDICATED ON PLAN

2-30# HD (2X8)

KING STUDS, NOT DRAWN ON PLAN
SEE GENERAL NOTES

HD-

HOLDOWN - SEE PLAN AND SCHEDULE

MARK	SHEATHING	PANEL EDGE NAILING	ANCHORAGE TO CONCRETE
SW1-A	1/2" (12.5mm) PLY ONE SIDE	3.330x27/2" #64 COMMON NAILS @34" (100mm) OC	3/2" (19mm) @ ANCHOR BOLT @48" (1200mm) OC
SW2-A	1/2" (12.5mm) PLY BOTH SIDES	3.330x27/2" #64 COMMON NAILS @34" (100mm) OC	3/2" (19mm) @ ANCHOR BOLT @24" (600mm) OC
SW2-B	1/2" (12.5mm) PLY BOTH SIDES	3.330x27/2" #64 COMMON NAILS @33" (75mm) OC	3/2" (19mm) @ ANCHOR BOLT @16" (400mm) OC
NOTES: 1. NAIL PLYWOOD PANEL @12" (300mm) OC IN THE FIELD FOR ALL SHEAR WALL TYPES. 2. BLOCK ALL PLY EDGES. 3. WHERE NAIL SPACING IS @2" (50mm) OC, DOUBLE UP ALL FRAMING MEMBERS AT PANEL EDGES. 4. ENSURE BASE ANCHORAGE TO CONCRETE. 5. HOLDDOWS TO BE PROVIDED AT THE END OF EACH SEGMENT OF SHEAR WALL (REFER TO SCHEDULE). 6. ALLOW FOR HOLDINGS AT EACH END OF ORTHOGONAL INTERSECTIONS OF WALL IN BOTH DIRECTIONS. 7. ENSURE 2 VERTICAL FOUNDATION WALL REINFORCEMENT BARS ARE PLACED WITHIN 2" (50mm) OF EACH CAST-IN HOLDDOWN ANCHOR. TYP. 8. ENGINEER TO DESIGN AND CONFIRM NAILING PATTERN, TOP PLATE AND BOTTOM PLATE CONNECTION AND ANCHORAGE TO CONCRETE. 9. OPENINGS AND PENETRATIONS IN SHEAR WALLS ARE NOT PERMITTED, UNLESS SPECIFIED ON THE DRAWINGS.			

WHERE THE LATERAL SYSTEM (SHEAR WALLS, DIAPHRAGMS AND ASSOCIATED HOLDOWN AND FOUNDATIONS) FALL OUTSIDE THE PRESCRIPTIVE REQUIREMENTS IN SECTION 9.23. DESIGN TO PART 4 IN ACCORDANCE WITH CLAUSE 9.23.1.1.2.

MARK	STUD SIZE AND SPACING	2x6 PLATE	TOP PLATE	REMARKS
W1	2x6 [38x140] SPF STUDS @16" 1400mm) OC	2x6 [38x140] PT SPF	(2) 2x6 [38x140] SPF	TYPE FOR ALL INTERNAL AND EXTERNAL WALLS UNO
W2	2x4 [38x89] SPF STUDS @16" 1400mm) OC	2x4 [38x89] PT SPF	(2) 2x4 [38x89] SPF	AS MARKED ON PLANS
<u>NOTES:</u> 1. ALL STUDS/PLATES TO BE NO. 2 OR BETTER UNO. 2. SEE GENERAL NOTES FOR SHEATHING AND ANCHORING. 3. SEE SHEAR WALL SCHEDULE FOR WALL SHEATHING AND ANCHORAGE FOR WALLS MARKED SW ON PLAN. 4. SPIKE ALL TOP PLATES. 5. WHERE BUILT-UP AND STEEL BEAMS ARE SUPPORTED ON STUD WALLS BELOW, STUD PACK TO BE ALLOWED FOR TO MATCH BEAM WIDTH.				

MARK	TYPE	SIZE	REINFORCEMENT	REMARKS
SF1	STRIP	2'-0" [600] WD x 18" [450] DP	[220 kg/m ³]	AS MARKED ON PLANS
SF2	STRIP	2'-0" [600] WD x 10" [250] DP	[110 - 150 kg/m ³]	AS MARKED ON PLANS
SF3	STRIP	3'-0" [900] WD x 18" [450] DP	[220 kg/m ³]	AS MARKED ON PLANS
PF1	PAD	4'-0" [1200] x 4'-0" [1200] x 10" [250] DP	[70 - 90 kg/m ³]	

NOTES:

- PROVIDE HOOKED DOWELS FROM BOTTOM OF FOOTING TO MATCH AND LAP WITH VERTICALS.
- FOOTINGS TO BE DESIGNED IN ACCORDANCE WITH CL. 9.4.1, AND 9.4.3, AND AT THE REQUIRED DEPTH FOR FROST PROTECTION APPROPRIATE TO THE SITE CONDITIONS.

MARK	SIZE	REINFORCEMENT	REMARKS
FW1	8" [200mm]	[110 - 150 kg/m ³]	TYP FOR STRIP FOOTINGS UNO
FW2	10" [250mm]	[110 - 150 kg/m ³]	FOR SF3, AS MARKED ON PLANS
FW3	14" [350mm]	[110 - 150 kg/m ³]	FOR SF3, AS MARKED ON PLANS

MARK	SIZE	REMARKS
L1	(2) 2x10 [38x235]	TYP FOR LOAD BEARING WALLS UNO
<u>NOTES:</u> 1. SIZES PROVIDED FOR INITIAL COSTING. DESIGNER TO SIZE LINTELS AND FLOOR BEAMS BASED ON SPAN AND LOAD WIDTHS IN ACCORDANCE WITH PART 9 REQUIREMENTS AND SITE-SPECIFIC SNOW LOADS AS APPROPRIATE.		

MARK	SIZE AND SPACING	REMARKS
J1	1/2" (16mm) T&G PLY ON 2x12 (38x286) SPF JOISTS @ 16" (400) OC	TYP FOR FLOOR UNO
J2	1/2" (16mm) T&G PLY ON 2x12 (38x286) SPF JOISTS @ 16" (400) OC	TYP FOR ROOF UNO
NOTES:		
1. TIMBER BEAMS TO BE SIZED IN ACCORDANCE WITH TABLE 9.2.3.4.2.-H. 2. ALL JOISTS TO BE SPF GRADE NO. 1, UN2, 2 OR BETTER, ALTERNATIVELY USE TJFS TO MANUFACTURERS SPAN-TO-LOAD TABLES. 3. ALL FLOOR JOISTS W/ STRAPPING @16" (400) OC.		

MARK	BP SIZE & ANCHORS	DETAIL
BP1	PL$\frac{3}{8}$"x10x0-10" [6x250x250] C/W 4" 3/4" [190] THREADED BAR W/ 3" [75] HOOK.	

1. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
2. DO NOT SCALE FROM DRAWINGS.
3. TRIAL PITS TO CONFIRM SOIL TYPE PRIOR TO CONSTRUCTION.
4. ALL EXTERIOR STEELWORK TO BE GALVANISED AND PAINTED AS PER ARCH SPECIFICATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS INCLUDING SHORING.
6. CONTRACTOR TO PROVIDE ADEQUATE SHORING AS REQUIRED DURING ALL PHASES OF CONSTRUCTION.
7. ANY CONNECTIONS NOT SHOWN TO BE AS PER PART 9.

1. DEFLECTION LIMITS AS SPECIFIED IN TABLE 9.4.3.1.
2. WHERE ELEMENTS ARE CANTILEVERED, A MAX ALLOWABLE LIMIT OF 1/180 IS PERMITTED.
3. WHERE ELEMENTS ARE TRANSFERRING, A MAX ALLOWABLE LIMIT OF 1/500 IS PERMITTED.
4. WHERE ELEMENTS ARE SUPPORTING BRITTLE ELEMENT (I.E. GLASS), A MAX ALLOWABLE LIMIT OF 1/500 IS PERMITTED.

1. JACK AND KING STUDS:
 - a. INSTALL DOUBLE JACK STUDS UNDER LINTELS, UNO.
 - b. INSTALL 2 KING STUDS AT POST FOR EXTERIOR WALLS, UNO.
 - c. INSTALL 1 KING STUD POST AT INTERIOR WALLS, UNO.
2. MINIMUM LINTEL SHALL BE LSL3½x9½ [89x241] OR (2) 2x10 [38x235] LUMBER, UNO.

[illegible]

NO.	DATE	DESCRIPTION
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PROJECT:

CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:

GENERAL NOTES AND
SCHEDULES

BC ROWHOUSE

PROJECT NO: 241058
SCALE: NTS

SHEET NO:

S001

STRUCTURAL ENGINEERING DESIGN TO PART 4 REQUIRED WHERE NOTED ON PLANS.

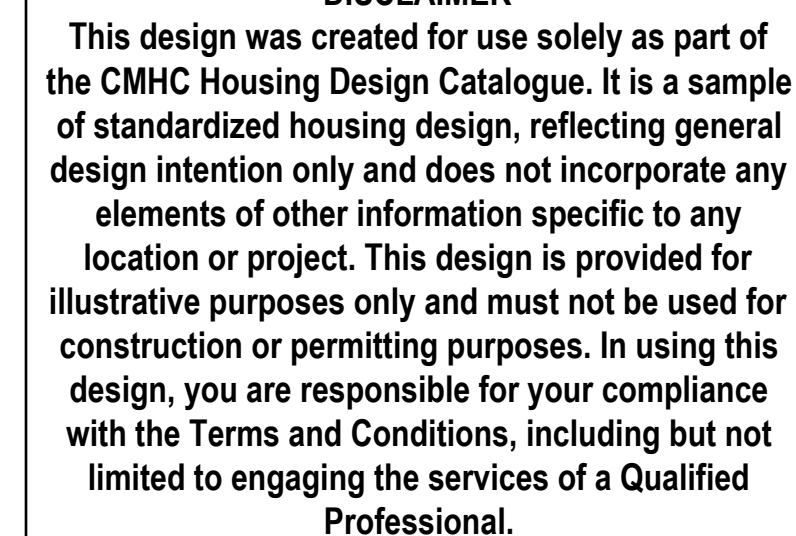
$$1/4'' = 1'-0''$$


STRUCTURAL ENGINEERING DESIGN TO PART 4 REQUIRED WHERE NOTED ON PLANS.

AT THIS LEVEL, JOISTS TO BE FULLY BLOCKED. LOCATION DETERMINED BY REQUIREMENTS IN CLAUSE 9.23.9.9.

JOISTS CANTILEVER AT THIS LEVEL. CANTILEVERED JOISTS TO BE FULLY BLOCKED. INTERNAL BEAM LOCATION DETERMINED BY MINIMUM BACKSPAN REQUIREMENTS IN ACCORDANCE WITH CLAUSE 9.23.9.9.

SW1-A, SW2-B, L1, J1, STAIR VOID, (3) 2x12 [38x286] D.FIR, (5) 2x12 [38x286] D.FIR

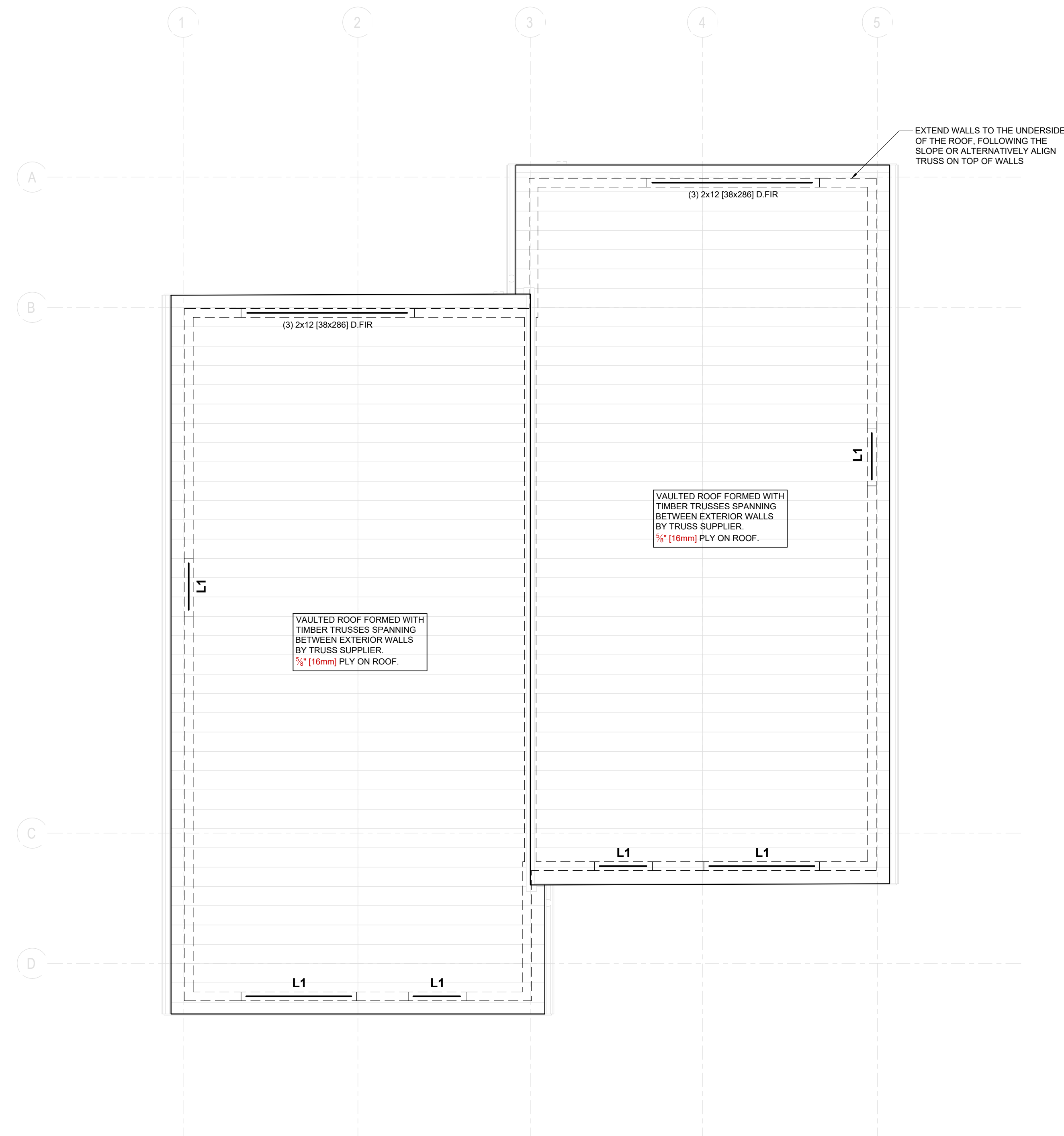
$$\frac{1}{4}'' = 1'-0''$$


S102

INDICATIVE BC LOCATIONS CONSIDERED IN BASE DESIGN:

- VICTORIA
- VANCOUVER
- KELOWNA
- PRINCE GEORGE

STRUCTURAL ENGINEERING DESIGN TO PART 4 REQUIRED WHERE NOTED ON PLANS.


$$1/4'' = 1'-0''$$


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1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING

NO.	DATE	DESCRIPTION
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CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

NOT FOR PERMIT
OR CONSTRUCTION

ROOF PLAN

BC ROWHOUSE

PROJECT NO: 241058
SCALE: As indicated

S104

CMHC HOUSING DESIGN CATALOGUE

BC ROWHOUSE OPTION 1

MECHANICAL DRAWINGS

MECHANICAL SHEET LIST	
M400	MECHANICAL COVER PAGE
M401.1	BC ROWHOUSE MECHANICAL (OPTION 1)
M001	MECHANICAL DETAILS
M002	MECHANICAL SPECIFICATIONS



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MECHANICAL SYSTEMS		
	EQUIPMENT	DESCRIPTION
VENTILATION	ENERGY RECOVERY VENTILATOR (ERV)	DWELLING UNIT TO BE SERVED BY A SINGLE ERV (MIN. 80% HEAT RECOVERY EFFECTIVENESS) FOR CONTINUOUS SUPPLY OF OUTDOOR AIR TO ALL OCCUPIED SPACES AND EXHAUST AIR FROM WASHROOM.
HEATING AND COOLING	DUCTLESS SPLIT-SYSTEM HEAT PUMP(FCU-INDOOR UNIT, CU-OUTDOOR UNIT) SUPPLEMENTARY BASEBOARD HEATER (EBBH)	HEATING AND COOLING OF SUITE IS SERVED BY ELECTRIC SPLIT SYSTEM WITH WALL MOUNTED, DUCTLESS INDOOR UNITS. FOR CLIMATE ZONES 5 & 6, ELECTRIC BASEBOARD IS REQUIRED FOR ALL SPACES AS BACK UP HEAT WHEN OUTDOOR AMBIENT TEMPERATURE IS BELOW -15°C, OR DURING POWER OUTAGE
DOMESTIC HOT WATER	HYBRID HEAT PUMP WATER HEATER (DHWI)	DOMESTIC HOT WATER PRODUCTION BY STANDALONE HYBRID HEAT PUMP AND ELECTRIC HOT WATER HEATER
KITCHEN EXHAUST	-	KITCHEN RANGE EXHAUST TO BE SEPARATE FROM MAIN VENTILATION SYSTEM AND TO BE DUCTED DIRECTLY TO OUTSIDE. (NOTE: THIS IS DESIGNED FOR ALL ELECTRIC APPLIANCE. A MAKE-UP AIR (MUA) FAN INTERLOCKED WITH KITCHEN RANGE EXHAUST IS RECOMMENDED FOR HOMES THAT INCLUDE ANY GAS-FIRED OR NATURAL-DRAFTING APPLIANCES OR FIREPLACES, TO PREVENT DEPRESSURIZATION AND BACKDRAFT"
DRYER EXHAUST	-	DRYER EXHAUST TO BE SEPARATE FROM MAIN VENTILATION SYSTEM AND TO BE DUCTED DIRECTLY TO OUTSIDE. (NOTE: THIS IS BASED ON CONVENTIONAL DOMESTIC DRYERS. CONDENSING DRYERS DO NOT REQUIRE DUCTED EXHAUST)

MECHANICAL LEGEND	
LIST OF ABBREVIATIONS	LIST OF SYMBOLS AND SERVICES
C/W DN F/A, T/A F/B, T/B NTS O/A R/A E/A S/A	COMPLETE WITH DOWN FROM ABOVE, TO ABOVE FROM BELOW, TO BELOW NOT TO SCALE OUTSIDE AIR RETURN AIR EXHAUST AIR SUPPLY AIR
	DUCTWORK ROUND DUCT DROP BALANCING DAMPER SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE SUPPLY OUTLET RETURN OR EXHAUST INLET EQUIPMENT TAG

PLUMBING ROUGH-IN SCHEDULE						
TYP E	FIXTURE	SAN	DCW	DHW	VENT	REMARKS
SK	SINK	38 (1½")	12 (½")	12 (½")	32 (1¼")	-
LAV	LAVATORY	32 (1¼")	12 (½")	12 (½")	32 (1¼")	-
WC	WATER CLOSET	75 (3")	12 (½") / 25 (1")	-	38 (1½")	FLUSH TANK
SH	SHOWER	50 (2")	12 (½")	12 (½")	38 (1½")	-
BT	BATHTUB	50 (2")	12 (½")	12 (½")	38 (1½")	-
JS	JANITOR SINK	38 (1½")	12 (½")	12 (½")	32 (1¼")	-
FD-1	FLOOR DRAIN	100 (4")	-	-	-	C/W TRAP PRIMER
CW	DOMESTIC CLOTHES WASHER	75 (3")	20 (¾")	20 (¾")	38 (1½")	
DW	DOMESTIC DISH WASHER	-	-	12 (½")	-	C/W SHOCK ARRESTOR. CONNECT DRAIN HOSE TO ADJACENT SINK.

* MINIMUM SIZE, REFER TO MANUFACTURER'S RECOMMENDATIONS. MULTIPLE ADJACENT APPLIANCES SHALL USE INDEPENDENT PLUMBING CONNECTIONS, SHUT-OFF VALVES, AND SHOCK ARRESTORS (DO NOT GANG CONNECTIONS TOGETHER).

ERV SIZING									
SUITE TYPE	QTY. BEDROOM	QTY. OCCUPANT	QTY. BATHROOM	Area (sqft)	Area (sqm)	OUTDOOR AIR		EXHAUST AIR	
						CFM	L/s	CFM	L/s
ROWHOUSE	3	4	3			44	21	57	27
1. AIRFLOW RATE PER BCBC2024 PRINCIPAL VENTILATION SYSTEM EXHAUST FAN MINIMUM AIRFLOW RATES (TABLE 9.32.3.5) KITCHEN/BATHROOM EXHAUST FAN MINIMUM AIR-FLOW RATE (TABLE 9.32.3.6) 2. ERV TO OPERATE IN CONSTANT VOLUME TO MEET ABOVE MINIMUM AIRFLOW RATES. OPTIONAL BOOST MODE TO INCREASE WASHROOM EXHAUST INTERMITTENDLY IS RECOMMENDED. 3. ERV TO BE MIN. 1"w.c. ESP 4. ERV TO BE C/W MERV 13 SUPPLY FILTER									

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING

NO.	DATE	DESCRIPTION
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PROJECT:
CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA
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SHEET TITLE:
MECHANICAL COVER PAGE

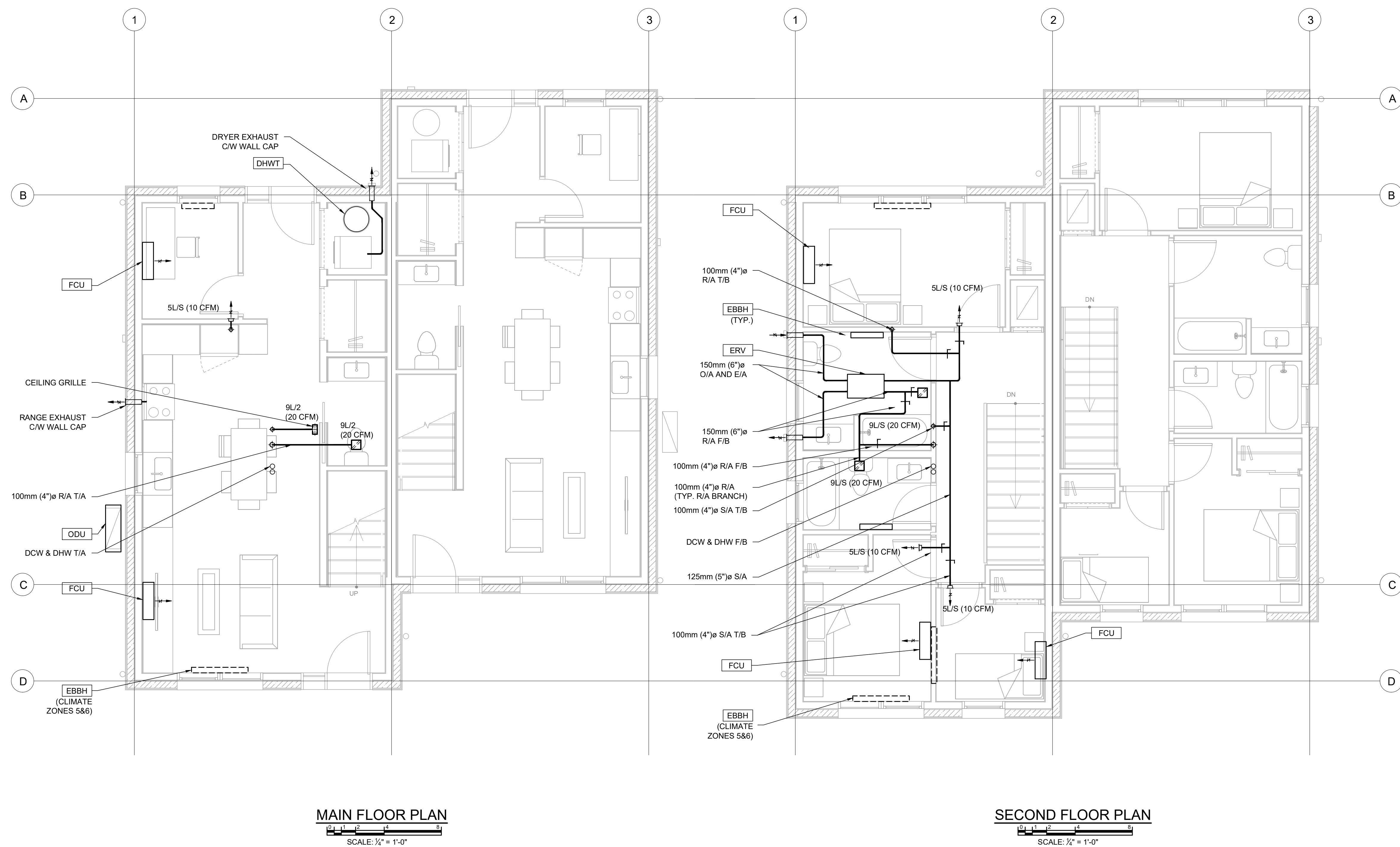
BC ROWHOUSE OPTION 1

PROJECT NO: 241058
SCALE: AS NOTED

SHEET NO:
M400

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- GENERAL NOTES:**
1. DRYER EXHAUST AND KITCHEN EXHAUST DUCTS VARY BY APPLIANCE MODEL AND SIZE. EXHAUST DUCT SIZED TO MANUFACTURER'S RECOMMENDATION.
 2. ELECTRIC BASEBOARD BACK UP HEATERS ARE REQUIRED FOR CLIMATE ZONES 5 & 6 ONLY, AND OPTIONAL FOR CLIMATE ZONE 4.



1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

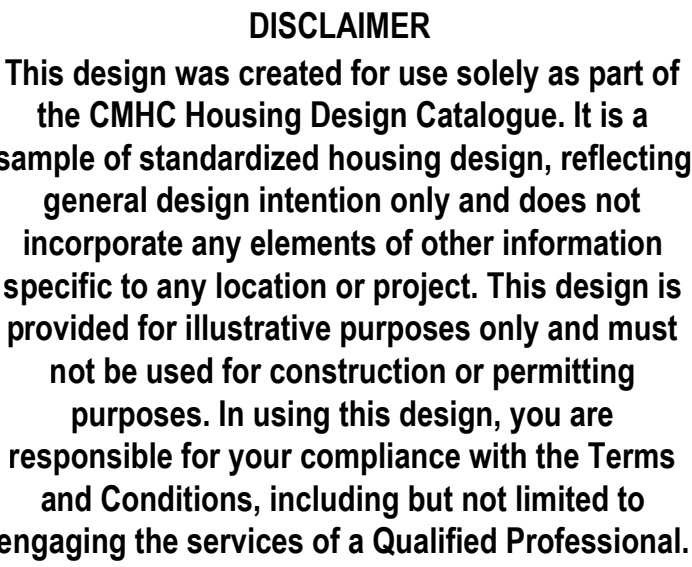
PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA
**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE:
BC ROWHOUSE MECHANICAL
OPTION 1

PROJECT NO: 241058
SCALE: AS NOTED

SHEET NO: M401.1



The drawing consists of two parts: a top view (SECTION A-A) and a side elevation view.

Top View (SECTION A-A): Shows a circular tank labeled 'DWH' inside a 'ROUND DRAIN PAN'. A 'WATER HEATER' label points to the tank. A 'RELIEF VALVE' is shown on the right side of the tank. Arrows indicate 'HOT WATER' and 'COLD WATER' connections.

Side Elevation View: Shows the tank 'DWH' mounted on a base. Key components and labels include:

- DOMESTIC COLD WATER RISER:** The main supply line on the left.
- VACUUM BREAKER TYPICAL:** Located on the cold water riser.
- MAIN SUITE SHUT OFF VALVE:** Located on the hot water supply line.
- TYPICAL UNION LOCATE FOR EASY HORIZONTAL REMOVAL OF TANK:** A union on the hot water supply line.
- P&T RELIEF VALVE PIPED TO DRAIN PAN:** A pressure and temperature relief valve on the tank.
- SEISMIC RESTRAINT BAND:** A band around the tank.
- 1" (25mm) TO WALL (N.T.S.):** Clearance between the tank and the wall.
- TANK DRAIN:** A drain line from the bottom of the tank.
- ROUND DRAIN PAN W/ WALLS MIN. 1" (25mm) HIGH:** The base pan for the tank.
- TRAP C/W TRAP PRIMER PIPE, DRAIN PAN OUTLET TO TRAP:** The final drainage connection.

SECTION A-A

P-12:DOMESTIC WATER HEATER DETAIL

SHOCKTROL

COLD AND HOT WATER SUPPLIES

WET VENT STACK IN STUD WALL

PLASTIC CONNECTION BOX
c/w SHUT-OFF VALVES

ESCUTCHEON

CLOTHES WASHER INSTALLED
BY PLUMBING CONTRACTOR
AND SUPPLIED BY OWNER

P-TRAP

WASTE PIPE IN
STUD WALL

FLOOR
LEVEL

P-6: CLOTHES WASHER CONNECTION DETAIL

SCALE NTS

P-10: DISHWASHER CONNECTION DETAIL

SCALE NTS

RETURN AIR GRILLE AS SPECIFIED

RETURN AIR DUCT C/W 25mm (1") THICK ACOUSTIC INSULATION

SUPPLY AIR DUCT 25MM (1") THICK ACOUSTIC INSULATION

OUTDOOR AIR DUCT FROM ERV

HEAT PUMP RETURN AIR PLENUM

ACoustically INSULATED WALL

32X32X29mm (1-1/4"x1-1/4"x1-1/8") ANGLE IRON W/ VIBRATION ISOLATOR TO BOLT-DOWN UNIT TO FLOOR

HEAT PUMP

FUNNEL FLOOR DRAIN W/ P-TRAP

CONDENSATE DRAIN LINE

CONDENSING UNIT

SECURE UNIT TO CURB

CONCRETE PAVER BASE

REFRIGERANT LINES TO BE SIZED AND INSTALLED BY REFRIGERATION CONTRACTOR; SUPPORT REFRIGERANT LINES WITH FLOATING SLEEPERS W/ VIBRATION ISOLATION ALL REFRIGERANT LINES TO BE INSULATED AND PROTECTED WITH WEATHER-RESISTANT HOUSING

M-04-11: TYPICAL HEAT PUMP DETAIL

SCALE NTS

The diagram illustrates a domestic water system. An incoming line, labeled "xx"Ø DCW INCOMING LINE", enters from the bottom left. It passes through a valve and a check valve, then through a Remote Pressure/Battery Assembly (RPBA). A dashed line connects the RPBA to a "REMOTE READER" located outside the building. The line then enters a "MECHANICAL ROOM" and passes through a check valve and a Non-Return Valve (N.C.) before reaching a "WATER LINE TO REST OF SUITE". The entire schematic is labeled "SCALE NTS".

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NO.	DATE	DESCRIPTION
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PROJECT: CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA

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MECHANICAL DETAILS

PROJECT NO: 241058
SCALE: AS NOTED

M001

CMHC HOUSING DESIGN CATALOGUE

BC ROWHOUSE OPTION 2

MECHANICAL DRAWINGS

MECHANICAL SHEET LIST	
M400	MECHANICAL COVER PAGE
M401.2	BC ROWHOUSE MECHANICAL (OPTION 2)
M001	MECHANICAL DETAILS
M002	MECHANICAL SPECIFICATIONS



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MECHANICAL SYSTEMS		
	EQUIPMENT	DESCRIPTION
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HEATING AND COOLING	DUCTLESS SPLIT-SYSTEM HEAT PUMP(FCU-INDOOR UNIT, CU-OUTDOOR UNIT) SUPPLEMENTARY BASEBOARD HEATER (EBBH)	HEATING AND COOLING OF SUITE IS SERVED BY ELECTRIC SPLIT SYSTEM WITH WALL MOUNTED, DUCTLESS INDOOR UNITS. FOR CLIMATE ZONES 5 & 6, ELECTRIC BASEBOARD IS REQUIRED FOR ALL SPACES AS BACK UP HEAT WHEN OUTDOOR AMBIENT TEMPERATURE IS BELOW -15°C, OR DURING POWER OUTAGE
DOMESTIC HOT WATER	HYBRID HEAT PUMP WATER HEATER (DHWT)	DOMESTIC HOT WATER PRODUCTION BY STANDALONE HYBRID HEAT PUMP AND ELECTRIC HOT WATER HEATER
KITCHEN EXHAUST	-	KITCHEN RANGE EXHAUST TO BE SEPARATE FROM MAIN VENTILATION SYSTEM AND TO BE DUCTED DIRECTLY TO OUTSIDE. (NOTE: THIS IS DESIGNED FOR ALL ELECTRIC APPLIANCE. A MAKE-UP AIR (MUA) FAN INTERLOCKED WITH KITCHEN RANGE EXHAUST IS RECOMMENDED FOR HOMES THAT INCLUDE ANY GAS-FIRED OR NATURAL-DRAFTING APPLIANCES OR FIREPLACES, TO PREVENT DEPRESSURIZATON AND BACKDRAFT"
DRYER EXHAUST	-	DRYER EXHAUST TO BE SEPARATE FROM MAIN VENTILATION SYSTEM AND TO BE DUCTED DIRECTLY TO OUTSIDE. (NOTE: THIS IS BASED ON CONVENTIONAL DOMESTIC DRYERS. CONDENSING DRYERS DO NOT REQUIRE DUCTED EXHAUST)

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING

NO.	DATE	DESCRIPTION
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PROJECT:
CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:
MECHANICAL COVER PAGE

BC ROWHOUSE OPTION 2

PROJECT NO: 241058
SCALE: AS NOTED

SHEET NO:

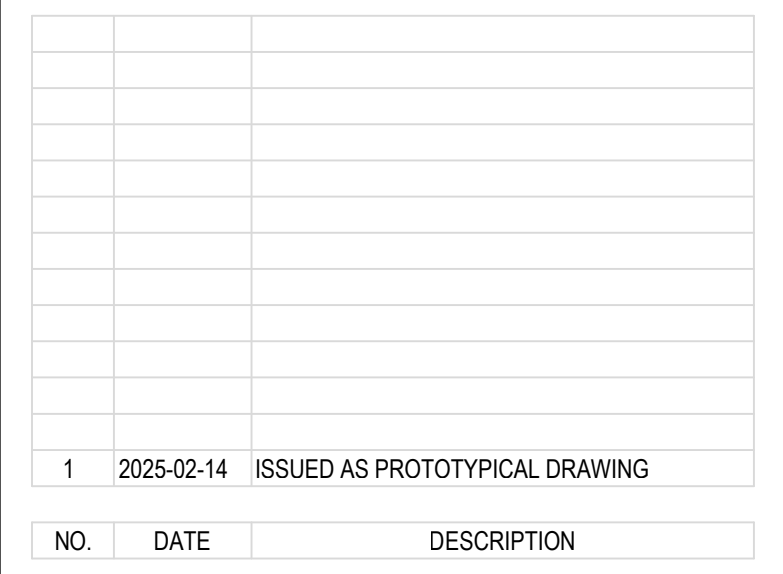
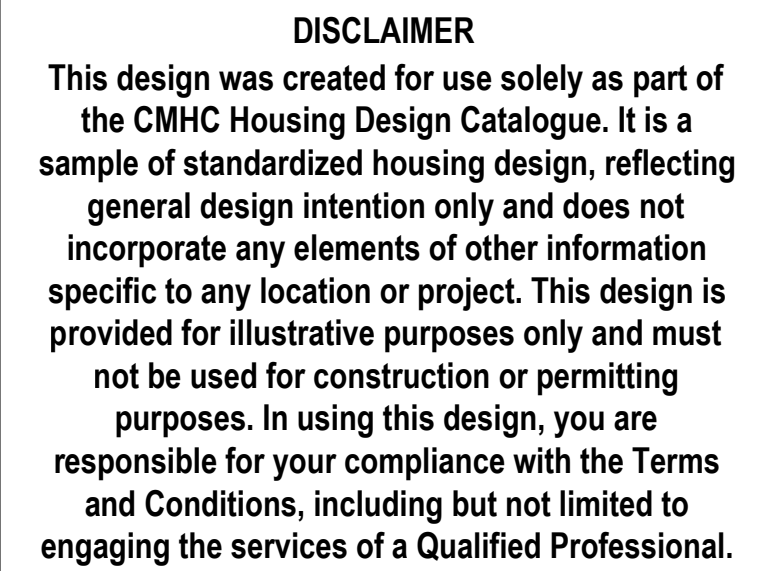
M400

MECHANICAL LEGEND	
LIST OF ABBREVIATIONS	LIST OF SYMBOLS AND SERVICES
C/W DN F/A, T/A F/B, T/B NTS O/A R/A E/A S/A	COMPLETE WITH DOWN FROM ABOVE, TO ABOVE FROM BELOW, TO BELOW NOT TO SCALE OUTSIDE AIR RETURN AIR EXHAUST AIR SUPPLY AIR DUCTWORK ROUND DUCT DROP BALANCING DAMPER SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE SUPPLY OUTLET RETURN OR EXHAUST INLET EQUIPMENT TAG

PLUMBING ROUGH-IN SCHEDULE						
TYP E	FIXTURE	SAN	DCW	DHW	VENT	REMARKS
SK	SINK	38 (1½")	12 (½")	12 (½")	32 (1¼")	-
LAV	LAVATORY	32 (1¼")	12 (½")	12 (½")	32 (1¼")	-
WC	WATER CLOSET	75 (3")	12 (½") / 25 (1")	-	38 (1½")	FLUSH TANK
SH	SHOWER	50 (2")	12 (½")	12 (½")	38 (1½")	-
BT	BATHTUB	50 (2")	12 (½")	12 (½")	38 (1½")	-
JS	JANITOR SINK	38 (1½")	12 (½")	12 (½")	32 (1¼")	-
FD-1	FLOOR DRAIN	100 (4")	-	-	-	C/W TRAP PRIMER
CW	DOMESTIC CLOTHES WASHER	75 (3")	20 (¾")	20 (¾")	38 (1½")	
DW	DOMESTIC DISH WASHER	-	-	12 (½")	-	C/W SHOCK ARRESTOR. CONNECT DRAIN HOSE TO ADJACENT SINK.

* MINIMUM SIZE, REFER TO MANUFACTURER'S RECOMMENDATIONS. MULTIPLE ADJACENT APPLIANCES SHALL USE INDEPENDENT PLUMBING CONNECTIONS, SHUT-OFF VALVES, AND SHOCK ARRESTORS (DO NOT GANG CONNECTIONS TOGETHER).

1. DRYER EXHAUST AND KITCHEN EXHAUST DUCTS VARY BY APPLIANCE MODEL AND SIZE. EXHAUST DUCT SIZED TO MANUFACTURER'S RECOMMENDATION.
2. ELECTRIC BASEBOARD BACK UP HEATERS ARE REQUIRED FOR CLIMATE ZONES 5 & 6 ONLY, AND OPTIONAL FOR CLIMATE ZONE 4.
3. THIS DESIGN OPTION IS FOR A DUCTED HEAT PUMP SYSTEM. HEAT PUMP SUPPLY AND RETURN AIR DUCTS TO BE DETERMINED BY REGIONAL QUALIFIED DESIGNER OR CONTRACTOR BASED ON SITE-SPECIFIC HEAT PUMP SYSTEM SIZING.



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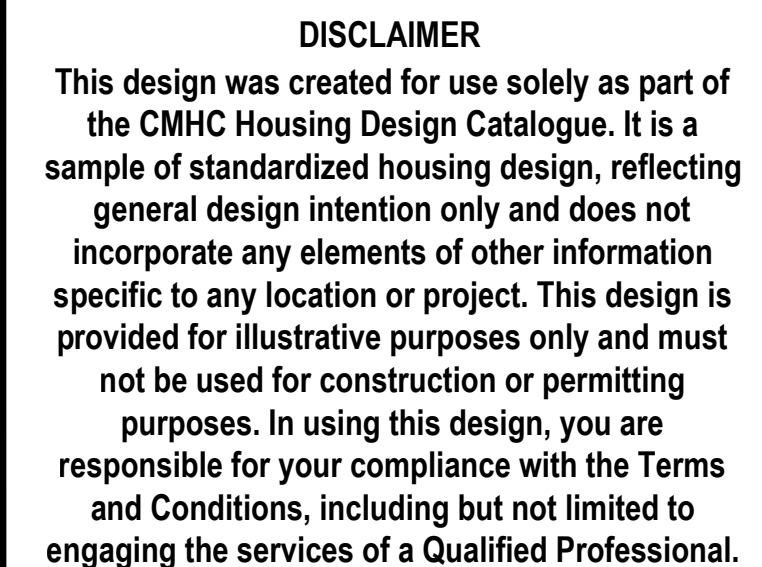
SHEET TITLE:

BC ROWHOUSE MECHANICAL
OPTION 2

PROJECT NO: 241058
SCALE: AS NOTED

SHEET NO: DW

M401.2 DW



WATER HEATER

ROUND DRAIN PAN

RELIEF VALVE

DWH

HOT WATER

COLD WATER

SECTION A-A

DOMESTIC COLD WATER RISER

VACUUM BREAKER TYPICAL

MAIN SUITE SHUT OFF VALVE

TYPICAL UNION LOCATE FOR EASY HORIZONTAL REMOVAL OF TANK

P&T RELIEF VALVE PIPED TO DRAIN PAN

A

SEISMIC RESTRAINT BAND

1" (25mm) TO WALL (N.T.S.)

DWH

TANK DRAIN

ROUND DRAIN PAN W/ WALLS MIN. 1" (25mm) HIGH

TRAP C/W TRAP PRIMER PIPE, DRAIN PAN OUTLET TO TRAP

P-12:DOMESTIC WATER HEATER DETAIL

SHOCKTROL

COLD AND HOT WATER SUPPLIES

WET VENT STACK IN STUD WALL

PLASTIC CONNECTION BOX c/w SHUT-OFF VALVES

ESCUTCHEON

CLOTHESWASHER INSTALLED BY PLUMBING CONTRACTOR AND SUPPLIED BY OWNER

P-TRAP

WASTE PIPE IN STUD WALL

FLOOR LEVEL

P-6: CLOTHES WASHER CONNECTION DETAIL

SCALE NTS

P-10: DISHWASHER CONNECTION DETAIL

SCALE NTS

RETURN AIR GRILLE AS SPECIFIED

RETURN AIR DUCT C/W 25mm (1") THICK ACOUSTIC INSULATION

OUTDOOR AIR DUCT FROM ERV

HEAT PUMP RETURN AIR PLENUM

ACoustically INSULATED WALL

32X32X29mm (1-1/4"x1-1/4"x1-1/8") ANGLE IRON W/ VIBRATION ISOLATOR TO BOLT-DOWN UNIT TO FLOOR

HEAT PUMP

FUNNEL FLOOR DRAIN W/ P-TRAP

CONDENSING UNIT

CONDENSATE DRAIN LINE

REFRIGERANT LINES TO BE SIZED AND INSTALLED BY REFRIGERATION CONTRACTOR; SUPPORT REFRIGERANT LINES WITH FLOATING SLEEPERS W/ VIBRATION ISOLATION ALL REFRIGERANT LINES TO BE INSULATED AND PROTECTED WITH WEATHER-RESISTANT HOUSING

SECURE UNIT TO CURB

CONCRETE PAVER BASE

SUPPLY AIR DUCT 25MM (1") THICK ACOUSTIC INSULATION

M-04-11: TYPICAL HEAT PUMP DETAIL

SCALE NTS

WATER LINE TO REST OF SUITE

REMOTE READER

SCALE NTS

MECHANICAL ROOM

N.C.

RPBA

W > M

xx"Ø DCW INCOMING LINE

DOMESTIC WATER SCHEMATIC

SCALE NTS

1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING

NO.	DATE	DESCRIPTION
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PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:

MECHANICAL DETAILS

PROJECT NO: 241058
SCALE: AS NOTED

M001

ELECTRICAL DRAWINGS

ELECTRICAL SHEET LIST	
SHEET NUMBER	SHEET TITLE
E000	COVER SHEET
E001	SYMBOL LEGEND AND ELECTRICAL SERVICE CALCULATIONS
E101	ROWHOUSE ELECTRICAL PLANS
E200	ELECTRICAL SPECIFICATIONS



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NO.	DATE	DESCRIPTION
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PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

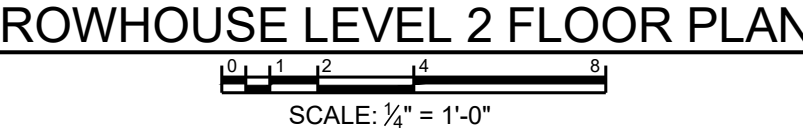
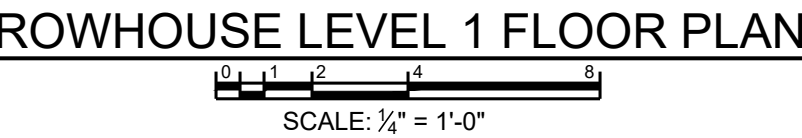
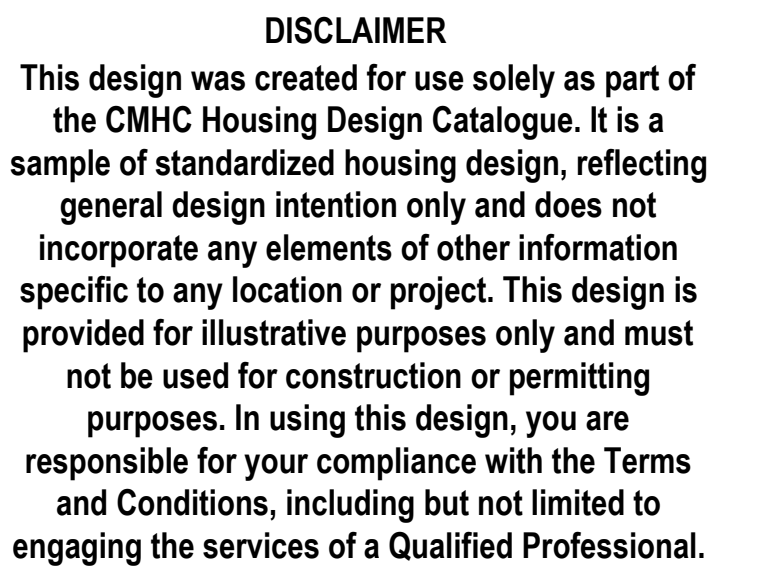
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SHEET TITLE:
COVER SHEET

BC ROWHOUSE

PROJECT NO: 24105
SCALE: NTS

E000



1	2025-02-14	ISSUED AS PROTOTYPICAL DRAWING

NO.	DATE	DESCRIPTION
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PROJECT:

CMHC HOUSING DESIGN
CATALOGUE

BRITISH COLUMBIA, CANADA

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OR CONSTRUCTION

SHEET TITLE:

ROWHOUSE ELECTRICAL PLANS

BC ROWHOUSE

PROJECT NO: 241058
SCALE: AS NOTED

SHEET NO

E101

