

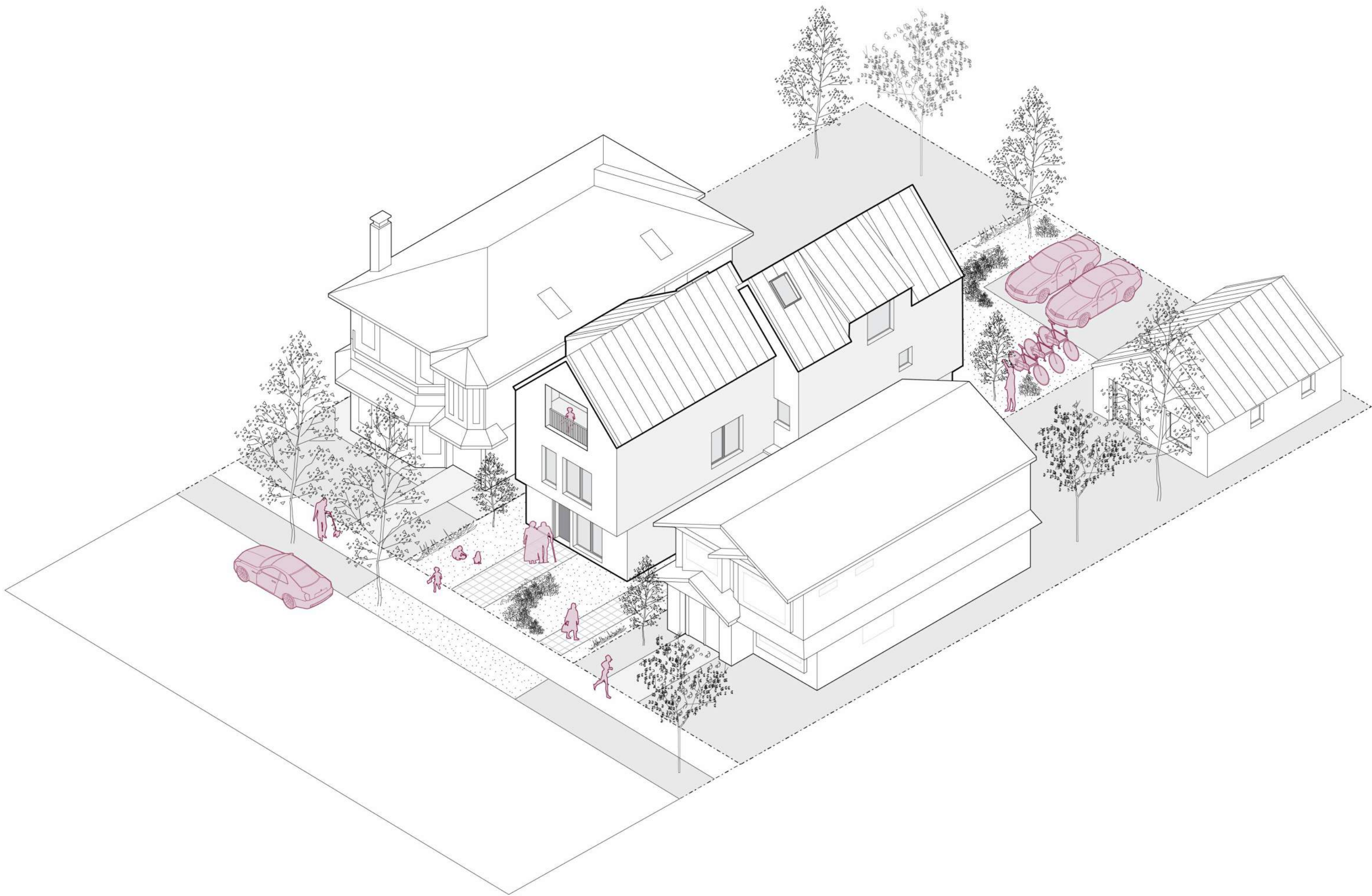


## HOUSING DESIGN CATALOGUE BC - DUPLEX

# CMHC HOUSING DESIGN CATALOGUE

## BC DUPLEX

### ARCHITECTURAL DRAWINGS



| BUILDING DATA      |                          |
|--------------------|--------------------------|
| BUILDING FOOTPRINT | 102.2 m² / 1100 ft²      |
| BUILDING HEIGHT    | 10.15 m / 33' - 3 5/8"   |
| STOREYS            | 3 STOREY                 |
| NUMBER OF UNITS    | 2                        |
| UNIT SUMMARY       |                          |
| UNIT 1             | 3 BEDROOM, 2.5 BATHROOMS |
| UNIT 2             | 3 BEDROOM, 2.5 BATHROOMS |
|                    |                          |
|                    |                          |
|                    |                          |

| 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              |
| A102                     | SECOND FLOOR PLAN            |
| A103                     | THIRD FLOOR PLAN             |
| A104                     | ROOF PLAN                    |
| A200                     | ELEVATIONS                   |
| A201                     | ELEVATIONS                   |
| A300                     | SECTIONS                     |



**DISCLAIMER**

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.

#### ABBREVIATIONS

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

|         |                                |
|---------|--------------------------------|
| ARCH    | ARCHITECTURAL                  |
| ASHP    | AIR SOURCE HEAT PUMP           |
| BCBC    | 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                      |
| EO      | 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               |
| T/O     | TOP OF                         |
| T&G     | TONGUE & GROOVE                |
| TYP     | TYPICAL                        |
| UIS     | UNDERSIDE                      |
| WIC     | WASHROOM                       |

#### GENERAL NOTES

- 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.
- ALL UNDERGROUND SERVICES ARE TO BE IDENTIFIED PRIOR TO THE COMMENCEMENT OF WORK AND EXCAVATIONS.
- 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<br>REFER TO DOOR SCHEDULE                   |
|  | WINDOW TAG<br>REFER TO WINDOW SCHEDULE               |
|  | MATERIAL TAG                                         |
|  | KEYNOTES<br>REFER TO SHEET SPECIFIC KEYNOTE SCHEDULE |

##### DRAWING TAGS

|  |                                                   |
|--|---------------------------------------------------|
|  | DETAIL NUMBER<br>DRAWING SHEET NUMBER             |
|  | BUILDING SECTION NUMBER<br>DRAWING SHEET NUMBER   |
|  | EXTERIOR ELEVATION NUMBER<br>DRAWING SHEET NUMBER |
|  | GRID BUBBLE                                       |
|  | SPOT ELEVATION<br>(ABOVE FINISH FLOOR)            |
|  | ROOM TAG                                          |
|  | CENTRELINE                                        |

|   |            |                                |
|---|------------|--------------------------------|
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|   |            |                                |
| 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:  
**COVER SHEET**

BC Duplex

PROJECT NO: 241058  
SCALE: As indicated

SHEET NO:

**A001**

| EW - EXTERIOR WALL ASSEMBLIES |         |                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |            |
|-------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|
| TYPE                          | DIAGRAM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                          | PERFORMANCE              |            |
| W1.1                          |         | <b>2x6 WOOD STUD W/ EXTERIOR INSULATION</b><br><br>VERTICAL LIGHTWEIGHT CLADDING PLACEHOLDER<br>HORIZONTAL TREATED PLY STRAPPING @ 16" C/C<br>SEMI-RIGID INSULATION<br>AIR BARRIER, VAPOUR PERMEABLE<br>MIN 3/4" PLYWOOD SHEATHING (REF ALSO STRUC)<br>WOOD STUD FRAMING, SPACING PER STRUCTURAL<br>CW IN-FILL INSULATION<br>VAPOUR CONTROL BARRIER<br>GYPSUM WALL BOARD                                             | R <sub>e</sub> EFFECTIVE | 24.1       |
|                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                      | R <sub>e</sub> EFFECTIVE | 4.24       |
| W1.2                          |         | <b>2x6 WOOD STUD W/ EXTERIOR INSULATION</b><br><br>VERTICAL LIGHTWEIGHT CLADDING PLACEHOLDER<br>HORIZONTAL TREATED PLY STRAPPING @ 16" C/C<br>VERTICAL TREATED PLY STRAPPING @ 16" C/C<br>SEMI-RIGID INSULATION<br>AIR BARRIER, VAPOUR PERMEABLE<br>MIN 3/4" PLYWOOD SHEATHING (REF ALSO STRUC)<br>WOOD STUD FRAMING, SPACING PER STRUCTURAL<br>CW IN-FILL INSULATION<br>VAPOUR CONTROL BARRIER<br>GYPSUM WALL BOARD | R <sub>e</sub> EFFECTIVE | 32.1       |
|                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                      | R <sub>e</sub> EFFECTIVE | 5.65       |
| W1.3                          |         | <b>2x6 WOOD STUD W/ EXTERIOR INSULATION</b><br><br>VERTICAL LIGHTWEIGHT CLADDING PLACEHOLDER<br>HORIZONTAL TREATED PLY STRAPPING @ 16" C/C<br>VERTICAL TREATED PLY STRAPPING @ 16" C/C<br>SEMI-RIGID INSULATION<br>AIR BARRIER, VAPOUR PERMEABLE<br>MIN 3/4" PLYWOOD SHEATHING (REF ALSO STRUC)<br>WOOD STUD FRAMING, SPACING PER STRUCTURAL<br>CW IN-FILL INSULATION<br>VAPOUR CONTROL BARRIER<br>GYPSUM WALL BOARD | R <sub>e</sub> EFFECTIVE | 38.1       |
|                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                      | R <sub>e</sub> EFFECTIVE | 6.71       |
| W1.4                          |         | <b>2x6 WOOD STUD W/ EXTERIOR INSULATION</b><br><br>VERTICAL LIGHTWEIGHT CLADDING PLACEHOLDER<br>HORIZONTAL TREATED PLY STRAPPING @ 16" C/C<br>VERTICAL TREATED PLY STRAPPING @ 16" C/C<br>SEMI-RIGID INSULATION<br>AIR BARRIER, VAPOUR PERMEABLE<br>MIN 3/4" PLYWOOD SHEATHING (REF ALSO STRUC)<br>WOOD STUD FRAMING, SPACING PER STRUCTURAL<br>CW IN-FILL INSULATION<br>VAPOUR CONTROL BARRIER<br>GYPSUM WALL BOARD | R <sub>e</sub> EFFECTIVE | 40.1       |
|                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                      | R <sub>e</sub> EFFECTIVE | 7.06       |
| W2                            |         | <b>NON-COMBUSTIBLE EXTERIOR CLADDING</b><br><br>VERTICAL LIGHTWEIGHT CLADDING PLACEHOLDER<br>HORIZONTAL METAL FURRING @ 16" C/C<br>INSULATION PER EW1, THICKNESS AS REQ'D FOR CLIMATE ZONE<br>AIR BARRIER, SHEATHING, FRAMING, INSULATION, VAPOUR BARRIER AND GB PER EW1                                                                                                                                             | R <sub>e</sub> EFFECTIVE | MATCH W1.X |
|                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                      | R <sub>e</sub> EFFECTIVE | MATCH W1.X |

| FW - FOUNDATION WALL ASSEMBLIES |         |                                                                                                                                                                    |                          |      |
|---------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|
| TYPE                            | DIAGRAM | DESCRIPTION                                                                                                                                                        | PERFORMANCE              |      |
| FW1.1                           |         | <b>FOUNDATION WALL</b><br><br>DRAINAGE AND PROTECTION BOARD<br>RIGID INSULATION (R-20.0)<br>FOUNDATION DAMPROOFING<br>CAST-IN-PLACE CONCRETE (REFER TO STRUCTURAL) | R <sub>e</sub> EFFECTIVE | 20.0 |
|                                 |         |                                                                                                                                                                    | R <sub>e</sub> EFFECTIVE | 3.52 |
| FW1.2                           |         | <b>FOUNDATION WALL</b><br><br>DRAINAGE AND PROTECTION BOARD<br>RIGID INSULATION (R-30.0)<br>FOUNDATION DAMPROOFING<br>CAST-IN-PLACE CONCRETE (REFER TO STRUCTURAL) | R <sub>e</sub> EFFECTIVE | 30.0 |
|                                 |         |                                                                                                                                                                    | R <sub>e</sub> EFFECTIVE | 5.28 |

| S - SOFFIT ASSEMBLIES |         |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                          |
|-----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TYPE                  | DIAGRAM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                     | PERFORMANCE                                                              |
| S2                    |         | <b>SOFFIT, SAME UNIT</b><br><br>FLOOR FINISH W/ UNDERLAY<br>DESIGN THICKNESS OF FLOOR FINISH 1 1/8"<br>T&G SUBFLOOR PLYWOOD PANEL<br>(GLUED - ACTS AS VAPOUR CONTROL BARRIER)<br>PRE-ENG WOOD JOISTS @ 24" C/C U.N.O.<br>REFER TO STRUCTURAL<br>5 1/2" IN-FILL INSULATION<br>PLYWOOD SHEATHING<br>AIR BARRIER<br>SEMI-RIGID INSULATION<br>RESILIENT CHANNEL<br>PREFINISHED LIGHTWEIGHT CLADDING | R <sub>e</sub> EFFECTIVE<br>34.6<br><br>R <sub>e</sub> EFFECTIVE<br>6.10 |

| R - ROOF ASSEMBLIES |         |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                        |
|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                | DIAGRAM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                              | PERFORMANCE                                                                                                                                            |
| R1.1                |         | <b>VAULTED ROOF</b><br><br>ROOFING PLACEHOLDER<br>IMPERMEABLE ROOFING UNDERLAYMENT<br>PLYWOOD SHEATHING<br>WOOD STRAPPING AT MAX 24" C/C<br>PRE-ENG WOOD JOISTS OR TRUSSES<br>@ MAX 24" C/C - REFER TO STRUCTURAL<br>1" IN-FILL INSULATION<br>(2" SPACE BETWEEN INSULATION AND UIS PLY)<br>POLY AIR VAPOUR BARRIER<br>HORIZONTAL STRAPPING (SERVICE CHASE)<br>VERTICAL STRAPPING (SERVICE CHASE)<br>GYPSUM BOARD CEILING | R <sub>e</sub> EFFECTIVE<br>36.5<br><br>R <sub>e</sub> EFFECTIVE<br>6.43                                                                               |
|                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |
| R1.2                |         | <b>VAULTED ROOF</b><br><br>ROOFING PLACEHOLDER<br>IMPERMEABLE ROOFING UNDERLAYMENT<br>PLYWOOD SHEATHING<br>WOOD STRAPPING AT MAX 24" C/C<br>PRE-ENG WOOD JOISTS OR TRUSSES<br>@ MAX 24" C/C - REFER TO STRUCTURAL<br>1" IN-FILL INSULATION<br>(2" SPACE BETWEEN INSULATION AND UIS PLY)<br>POLY AIR VAPOUR BARRIER<br>HORIZONTAL STRAPPING (SERVICE CHASE)<br>VERTICAL STRAPPING (SERVICE CHASE)<br>GYPSUM BOARD CEILING | R <sub>e</sub> EFFECTIVE<br>43.2<br><br>R <sub>e</sub> EFFECTIVE<br>7.61                                                                               |
|                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |
| R1.3                |         | <b>VAULTED ROOF</b><br><br>ROOFING PLACEHOLDER<br>IMPERMEABLE ROOFING UNDERLAYMENT<br>PLYWOOD SHEATHING<br>WOOD STRAPPING AT MAX 24" C/C<br>PRE-ENG WOOD JOISTS OR TRUSSES<br>@ MAX 24" C/C - REFER TO STRUCTURAL<br>1" IN-FILL INSULATION<br>(2" SPACE BETWEEN INSULATION AND UIS PLY)<br>POLY AIR VAPOUR BARRIER<br>HORIZONTAL STRAPPING (SERVICE CHASE)<br>VERTICAL STRAPPING (SERVICE CHASE)<br>GYPSUM BOARD CEILING | R <sub>e</sub> EFFECTIVE<br>49.5<br><br>R <sub>e</sub> EFFECTIVE<br>8.72                                                                               |
|                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                          | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |

|    |  |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                        |
|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| R2 |  | <b>TERRACE / DECK ROOF ABOVE SAME UNIT</b><br><br>DECK FINISH<br>EPDM OR COMPOSITE SHIMS<br>UV STABLE FILTER FABRIC<br>XPS INSULATION<br>DRAINAGE MAT<br>2-PLY SBS ROOFING MEMBRANE<br>SLOPED PLYWOOD DECK MIN 2%<br>WOOD TAPERS<br>WOOD JOISTS @ MAX 24" C/C<br>MIN DEPTH 5 1/2" - REFER TO STRUCTURAL<br>GYPSUM BOARD | R <sub>e</sub> EFFECTIVE<br>23.2<br><br>R <sub>e</sub> EFFECTIVE<br>4.09                                                                               |
|    |  |                                                                                                                                                                                                                                                                                                                         | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |
| R4 |  | <b>BALCONY ABOVE CARPORT</b><br><br>DECK FINISH<br>EPDM OR COMPOSITE SHIMS<br>2-PLY SBS ROOFING MEMBRANE<br>SLOPED WOOD TAPERS MIN 2%<br>DOUBLED WOOD JOISTS @ MAX 16" C/C<br>REFER TO STRUCTURAL                                                                                                                       | R <sub>e</sub> EFFECTIVE<br>30.0<br><br>R <sub>e</sub> EFFECTIVE<br>5.28                                                                               |
|    |  |                                                                                                                                                                                                                                                                                                                         | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |

| SOG - SLAB ON GRADE ASSEMBLIES |         |                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                        |
|--------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                           | DIAGRAM | DESCRIPTION                                                                                                                                                                                                                                                                                                     | PERFORMANCE                                                                                                                                            |
| SOG1.1                         |         | <b>SLAB ON GRADE</b><br><br>CAST-IN-PLACE CONCRETE SLAB-ON-GRADE, W/ STEEL REINFORCEMENT. REFER TO STRUC VAPOUR CONTROL + SOIL GAS BARRIER - AIR TIGHT<br>RIGID INSULATION (R-20.0)<br>COMPACTED, FREE-DRAINING GRANULAR BASE. ENSURE BASE CONTAINS LESS THAN 10% MATERIAL THAT WOULD PASS THROUGH A 4mm SIEVE. | R <sub>e</sub> EFFECTIVE<br>20.0<br><br>R <sub>e</sub> EFFECTIVE<br>3.52                                                                               |
|                                |         |                                                                                                                                                                                                                                                                                                                 | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |
| SOG1.1                         |         | <b>SLAB ON GRADE</b><br><br>CAST-IN-PLACE CONCRETE SLAB-ON-GRADE, W/ STEEL REINFORCEMENT. REFER TO STRUC VAPOUR CONTROL + SOIL GAS BARRIER - AIR TIGHT<br>RIGID INSULATION (R-30.0)<br>COMPACTED, FREE-DRAINING GRANULAR BASE. ENSURE BASE CONTAINS LESS THAN 10% MATERIAL THAT WOULD PASS THROUGH A 4mm SIEVE. | R <sub>e</sub> EFFECTIVE<br>30.0<br><br>R <sub>e</sub> EFFECTIVE<br>5.28                                                                               |
|                                |         |                                                                                                                                                                                                                                                                                                                 | ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC SUBSECTION 9.35.5. FURTHER CALCULATIONS ARE REQUIRED IF CONFORMING TO SUBSECTION 10.2.3.4 |

| ASSEMBLY GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED AS FOLLOWS:<br>A. TO CENTRE OF STUD WALL ASSEMBLIES<br>B. TO EXTERIOR FACE OF CONCRETE AND CMU<br>C. TO EXTERIOR FACE OF EXTERIOR SHEATHING<br>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 U/S 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 RATINGS 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 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.                                                                                                                                                                              |  |
| 9. COORDINATE ACCESS PANELS LOCATED WITHIN SUSPENDED GYPSUM BOARD CEILING ASSEMBLIES TO BE PAINTED OUT TO MATCH THE SURROUNDING CEILING FINISH. PROVIDE UL-C LISTED ACCESS PANELS 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, 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. |  |
| 12. GRAB BARS SHALL BE CAPABLE OF RESISTING A LOAD OF NO LESS THAN 1.3kN.                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 13. PROVIDE ALL PLUMBING CHASES 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 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.                                                                            |  |
| 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 AIRVAPOUR 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, FLOOR, MEZZANINE, ETC.), TO BE ENCLOSED AT THE TOP AND/OR BOTTOM WITH A UL-C 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 9.25.3.6.                                                                                                                                                                                                                                                                                                                                                                            |  |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                |  |

| ASSEMBLY MATRIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |      |               |                 |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|---------------|-----------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EXTERIOR WALL | ROOF | SLAB ON GRADE | FOUNDATION WALL | GLAZING |
| CZ4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W1.3 / W2.3   | R1.2 | SOG1.1        | FW1.1           | DOUBLE  |
| CZ5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W1.3 / W2.3   | R1.2 | SOG1.1        | FW1.1           | TRIPLE  |
| CZ6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W1.4 / W2.4   | R1.3 | SOG1.2        | FW1.2           | TRIPLE  |
| NOTES:<br>- EXTERIOR CLADDING AND/OR WALL CONSTRUCTION SHALL BE NON-COMBUSTIBLE WHERE REQUIRED<br>- SEE 'BC ENERGY MODELLING GUIDELINE' FOR MORE INFORMATION REGARDING ASSUMED MODELLING PARAMETERS AND NEXT STEPS FOR COMPLIANCE TO APPLICABLE CODES AND STANDARDS<br>- ASSUMED INSULATION R-VALUES ARE LISTED IN ACCORDANCE TO BCBC 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.<br>- R <sub>e</sub> = hr·ft²·°F/BTU<br>- R <sub>e</sub> = m²·K/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 IN-FILL INSULATION    |

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

PROJECT:  
**CMHC HOUSING DESIGN CATALOGUE**

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

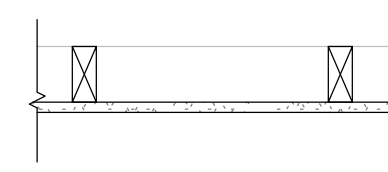
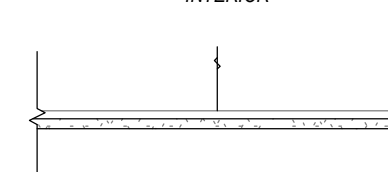
SHEET TITLE:  
**EXTERIOR ASSEMBLIES SCHEDULE**

BC Duplex

PROJECT NO: 241058  
SCALE: As indicated

SHEET NO:  
**A002**

|  |  |                        |                                                                   |  |
|--|--|------------------------|-------------------------------------------------------------------|--|
|  |  | 1/2"x13mm<br>1/2"x13mm | REFER ALSO TO STRUCTURAL<br>PLYWOOD<br>TYPE 'X' GYPSUM WALL BOARD |  |
|--|--|------------------------|-------------------------------------------------------------------|--|

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

20. EQUIPMENT, ELECTRIC PANELS, FLOOR ACCESS LADDER ETC. DESIGN/BUILD ALL BLOCKING AND SUE SUPPORT/REINFORCE AS REQUIRED. FULLY COORDINATE ALL ADDITIONAL SUPPORT REQUIRED FOR ANCHORAGE OF MECHANICAL EQUIPMENT, FLOOR DRUGS AND ELECTRICAL FIXTURES.
21. GRAB BARS SHALL BE CAPABLE OF RESISTING A LOAD OF NO LESS THAN 1.3KN.
22. PROVIDE ALL PLUMBING CHASES AND MECHANICAL SAYS IN ADDITION TO ASSEMBLIES. COORDINATE REQUIRED CRITICAL DIMENSIONS WHEN LAYING OUT WALLS.
23. IF FLOOR DRAINS ARE LOCATED IN A ROOM, COORDINATE SLOPING ENTIRE FLOOR TOWARD THE DRAIN. THERE WILL BE NO FLAT FLOOR PLANE IN THE ROOM WITH A REQUIRED FLOOR DRAIN WHERE WATER CAN Puddle FLOOR TO SLOPE OF MINIMUM OF 2%. REFER TO THE MECHANICAL DRAWINGS TO DETERMINE THE LOCATION OF FLOOR DRAINS. IF ANY FLOOR DRAIN THAT PUDDLE WATER CAN OR DO NOT DIRECT WATER TO THE PROPER FLOOR DRAIN.
24. COORDINATE MINIMUM STU SPACE REQUIRED TO SUPPORT EQUIPMENT AS NOTED ON ARCHITECTURAL AND ENGINEERING DRAWINGS.

[illegible]

BRITISH COLUMBIA, CANADA

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BC Duplex

SHEET NO:  
**A003**

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 four different window and skylight configurations, each with labeled dimensions: Width, Height, and Sill Height. A dashed line separates the window types from the skylight type.

- WINDOW TYPE A FIXED:** A standard rectangular window with a flat glass pane. Dimensions are labeled as WIDTH, HEIGHT, and SILL HEIGHT.
- WINDOW TYPE B CASEMENT:** A window with a flat glass pane and a frame that can be opened by pivoting on its side. Dimensions are labeled as WIDTH, HEIGHT, and SILL HEIGHT.
- WINDOW TYPE C AWNING:** A window with a flat glass pane and a frame that can be opened by pivoting on its top. Dimensions are labeled as WIDTH, HEIGHT, and SILL HEIGHT.
- SKYLIGHT TYPE A 'FIXED':** A rectangular skylight with a flat glass pane. Dimensions are labeled as WIDTH and HEIGHT.

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 9.36.2.1 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 9.7.3
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 ENTRANCE DOORS TO DWELLING 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   |             |       |
| DC01 | DOOR TYPE C | 3' - 0"    | 6' - 10" | N/A         |       |
| DD01 | DOOR TYPE D | 6' - 0"    | 7' - 0"  | N/A         |       |
| DE02 | DOOR TYPE E | 2' - 8"    | 6' - 8"  | N/A         |       |
| DF01 | DOOR TYPE F | 2' - 8"    | 6' - 8"  | N/A         |       |
| DF03 | DOOR TYPE F | 3' - 6"    | 6' - 8"  | N/A         |       |
| DF09 | DOOR TYPE F | 2' - 4"    | 6' - 8"  | N/A         |       |
| DG02 | DOOR TYPE G | 4' - 6"    | 6' - 8"  | N/A         |       |
| DG03 | DOOR TYPE G | 5' - 0"    | 6' - 8"  | N/A         |       |
| DH01 | DOOR TYPE H | 2' - 8"    | 6' - 8"  | N/A         |       |

| TAG  | TYPE            | OPERATION | DIMENSIONS |         |
|------|-----------------|-----------|------------|---------|
|      |                 |           | WIDTH      | HEIGHT  |
| SL01 | SKYLIGHT TYPE A | Skylight  | 3' - 0"    | 4' - 0" |
| WA04 | WINDOW TYPE A   | Fixed     | 3' - 0"    | 6' - 0" |
| WA05 | WINDOW TYPE A   | Fixed     | 2' - 9"    | 6' - 0" |
| WA07 | WINDOW TYPE A   | Fixed     | 2' - 9"    | 6' - 4" |
| WA09 | WINDOW TYPE A   | Fixed     | 5' - 0"    | 6' - 0" |
| WB02 | WINDOW TYPE B   | Casement  | 3' - 0"    | 4' - 0" |
| WB03 | WINDOW TYPE B   | Casement  | 3' - 0"    | 6' - 0" |
| WB04 | WINDOW TYPE B   | Casement  | 2' - 9"    | 6' - 0" |
| WB06 | WINDOW TYPE B   | Casement  | 2' - 9"    | 6' - 4" |
| WB07 | WINDOW TYPE B   | Casement  | 2' - 6"    | 3' - 0" |

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| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

BRITISH COLUMBIA, CANADA

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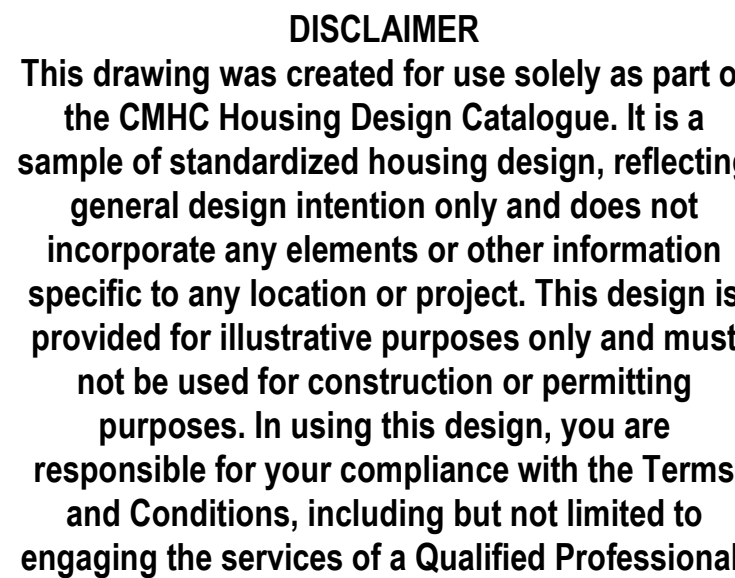
SHEET TITLE:  
DOOR AND WINDOW  
SCHEDULE

## BC Duplex

PROJECT NO: 241058  
SCALE: 1 : 50

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 9.10.3.2
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 9.10.3.2
4. PENETRATIONS OF FIRE SEPARATIONS SHALL CONFORM TO PROVISIONS OF CBCB SUBSECTION 9.10.3.6
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)

1 SECTION - 1 HR FRR WALL (P6) AT RATED FLOOR (F1)  
A005 1" = 1'-0"

4 SECTION - 1 HR FRR WALL (P5) AT RATED FLOOR (F1)  
A005 1" = 1'-0"

2 SECTION - LOADBEARING WALL (P3) AT RATED FLOOR (F1)  
A005 1" = 1'-0"

5 SECTION - 1 HR FRR WALL (P6) AT UNRATED FLOOR (F2)  
A005 1" = 1'-0"

3  
A005

SECTION - FIRE SEPARATION, STAIRS

1" = 1'-0"

- |                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | 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      |

- |                                                                                     |                                  |
|-------------------------------------------------------------------------------------|----------------------------------|
|  | SEMI-RIGID INSULATION            |
|  | RIGID INSULATION 1               |
|  | RIGID INSULATION 2, HIGH DENSITY |
|  | SPRAY FOAM                       |
|  | STUD CAVITY IN-FILL INSULATION   |

|   |            |                                  |
|---|------------|----------------------------------|
|   |            |                                  |
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| 1 | 2025-02-14 | (ISSUED AS PROTOTYPICAL DRAWING) |

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

PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

BRITISH COLUMBIA, CANADA

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SHEET TITLE:

# FIRE RATING DETAILS

## BC Duplex

PROJECT NO: 241058  
SCALE: As indicated

**SHEET NO:**

A005

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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**

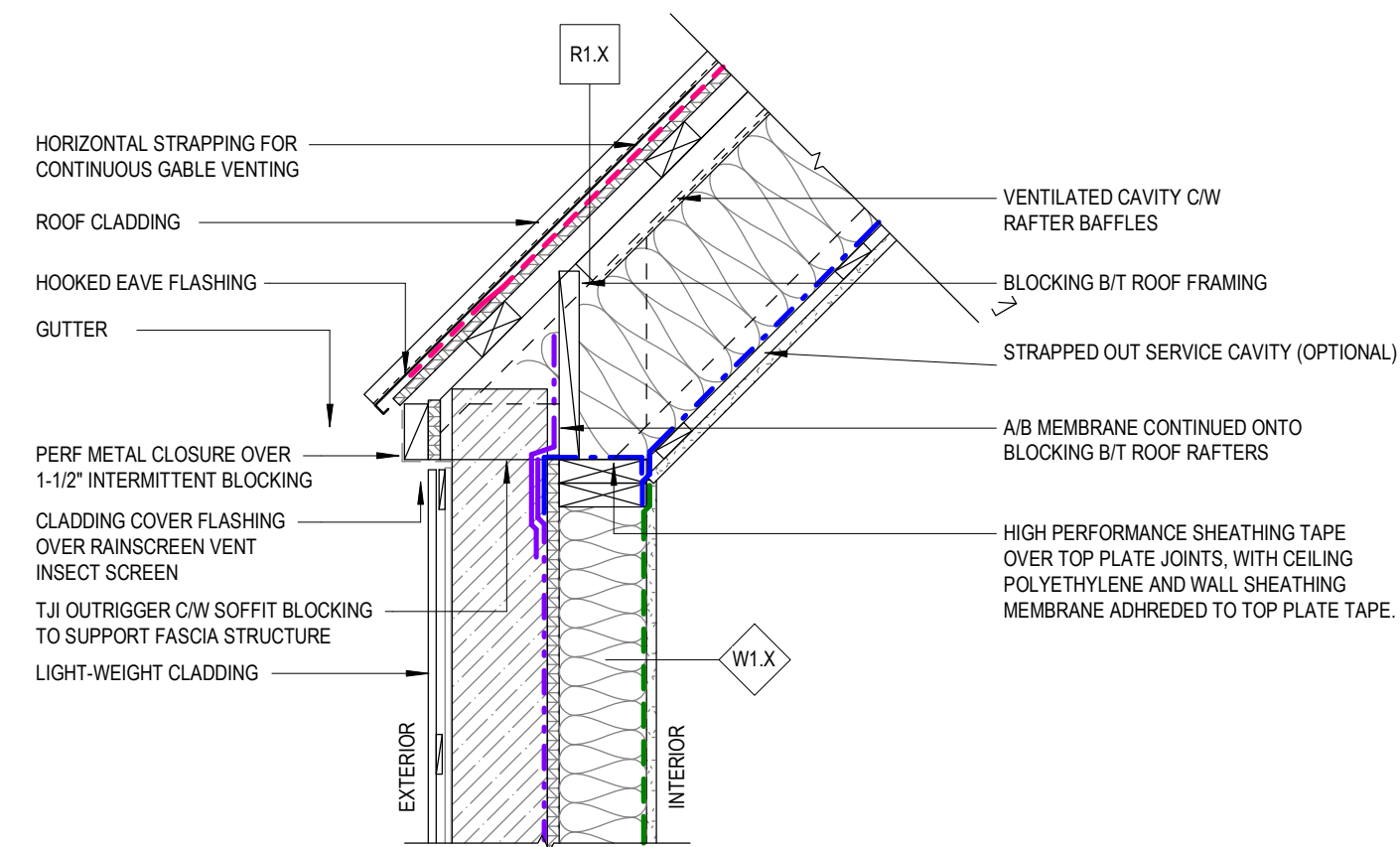
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SHEET TITLE:  
**TYPICAL DETAILS**

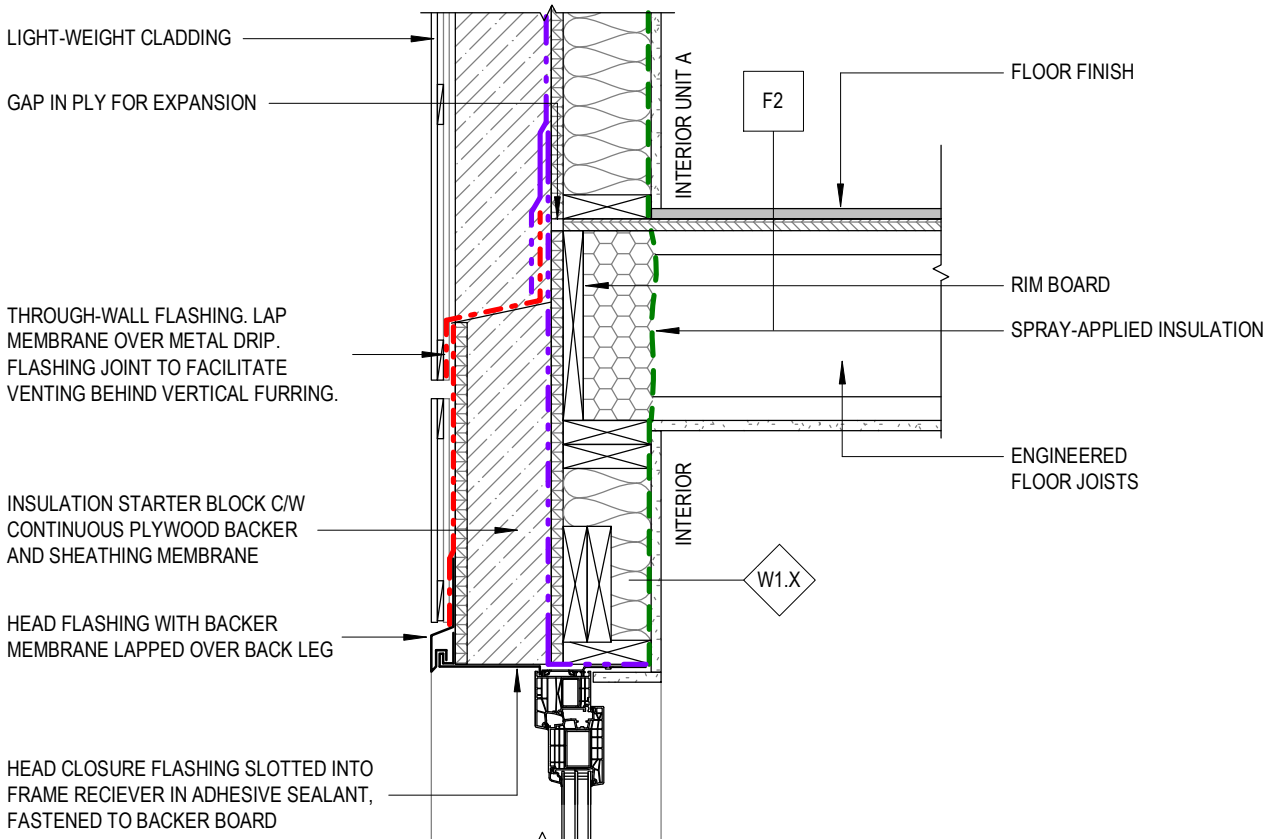
BC Duplex

PROJECT NO: 241058  
SCALE: As indicated

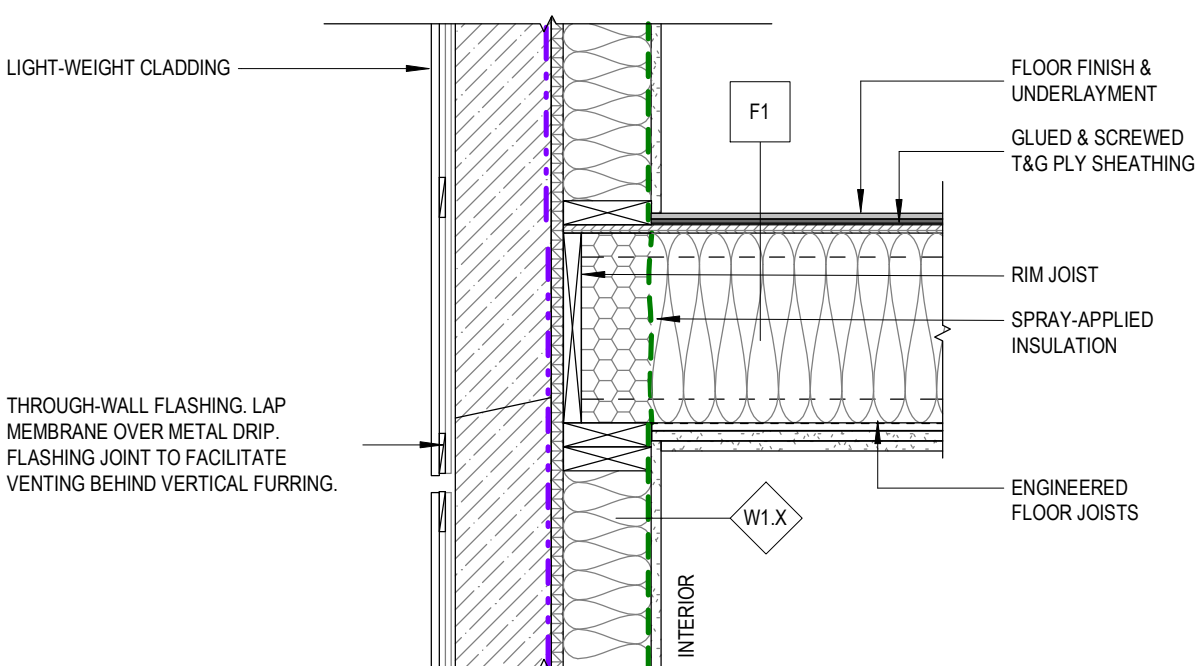
SHEET NO:  
**A006**



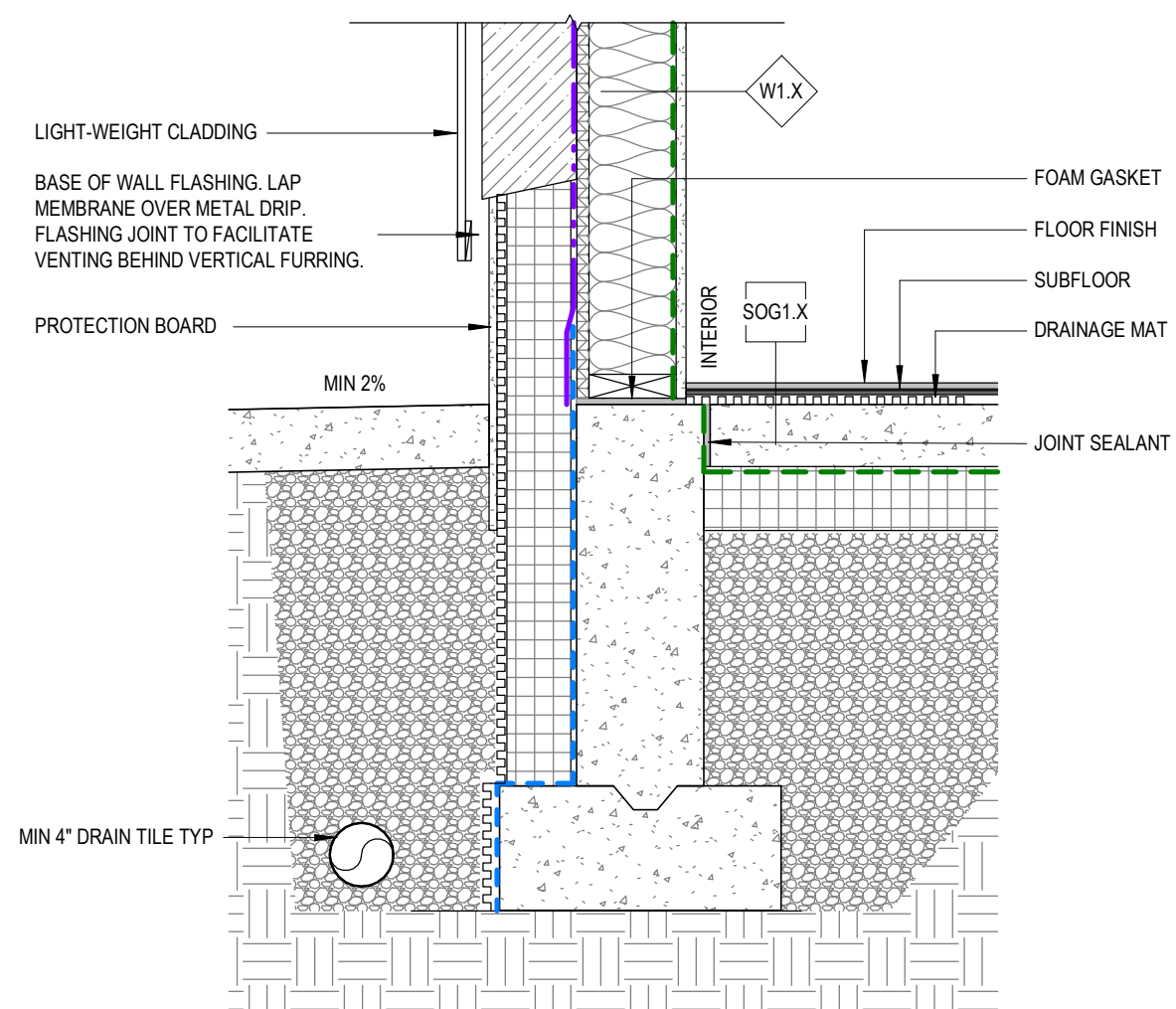
1  
A006  
TYP. WALL TO ROOF - EAVE  
1" = 1'-0"



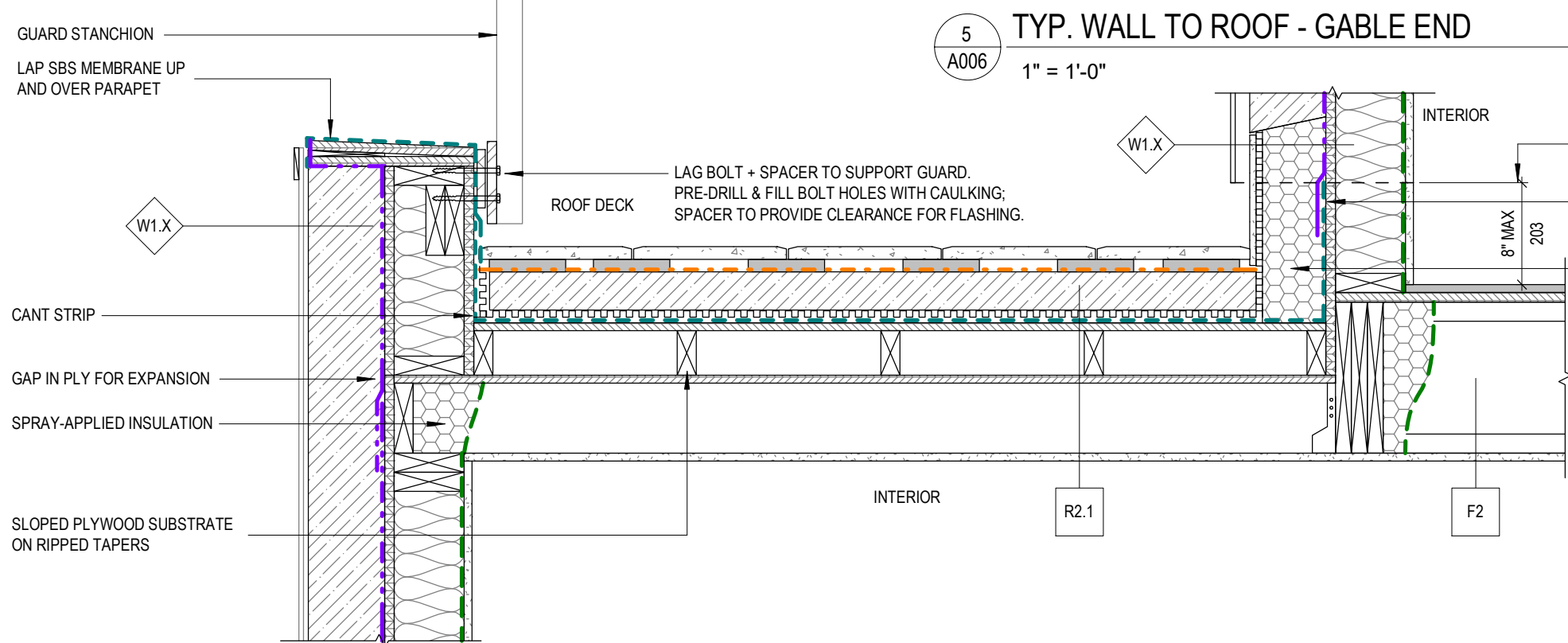
2  
A006  
TYP. FLOOR TO FLOOR - SAME UNIT  
1" = 1'-0"



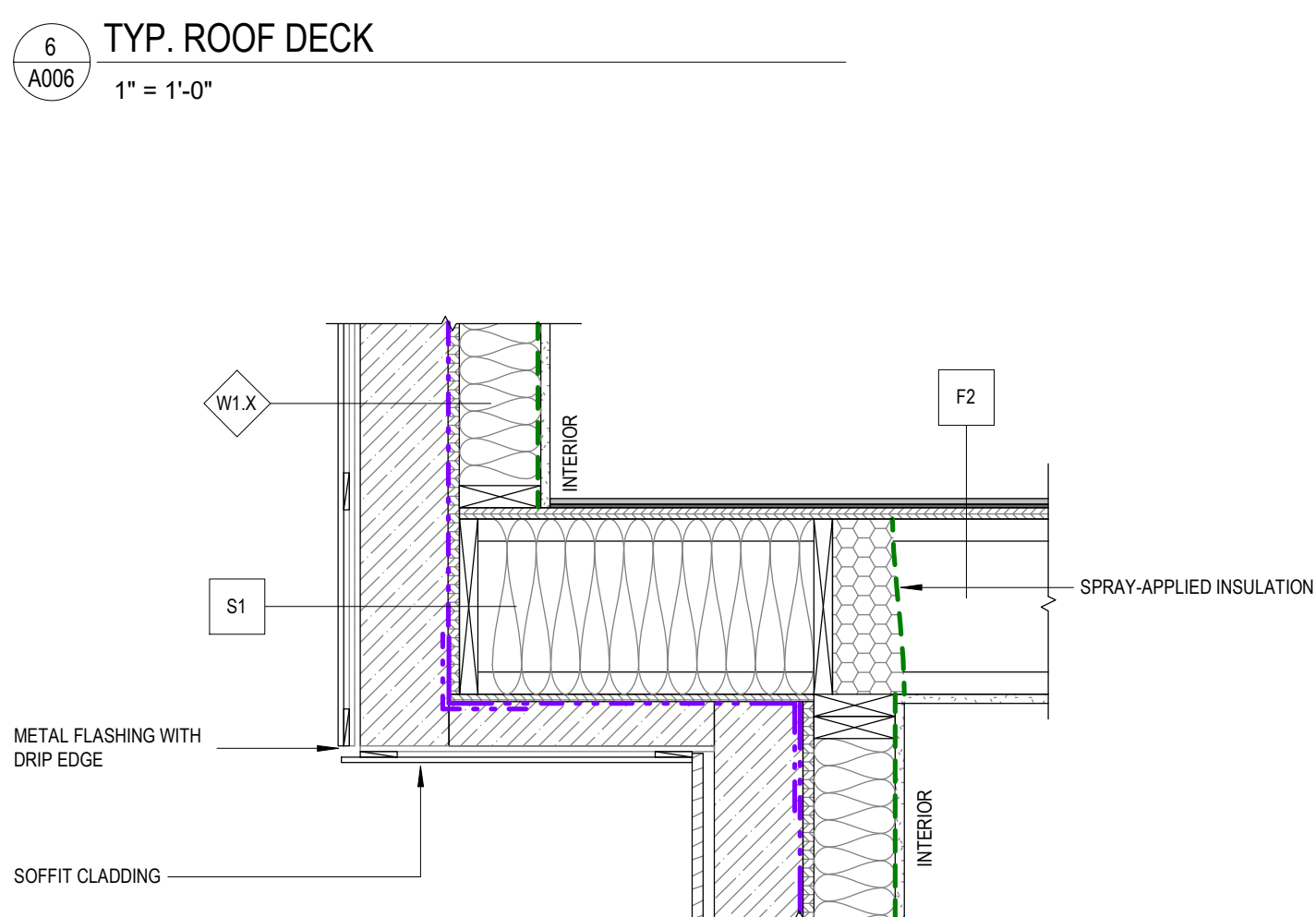
3  
A006  
TYP. FLOOR TO FLOOR - FRR  
1" = 1'-0"



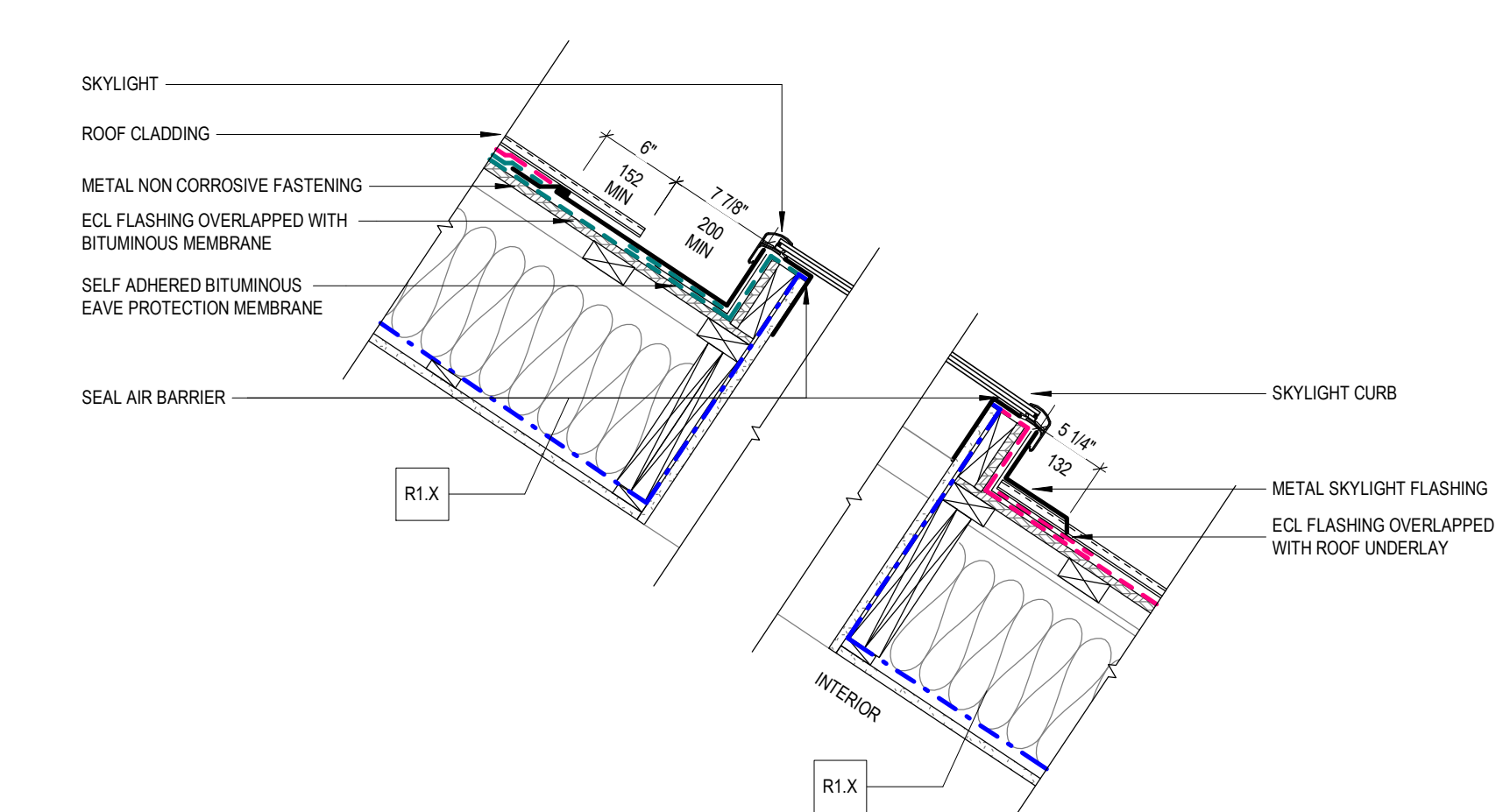
4  
A006  
TYP. FOOTING TO WALL  
1" = 1'-0"



5  
A006  
TYP. WALL TO ROOF - GABLE END  
1" = 1'-0"

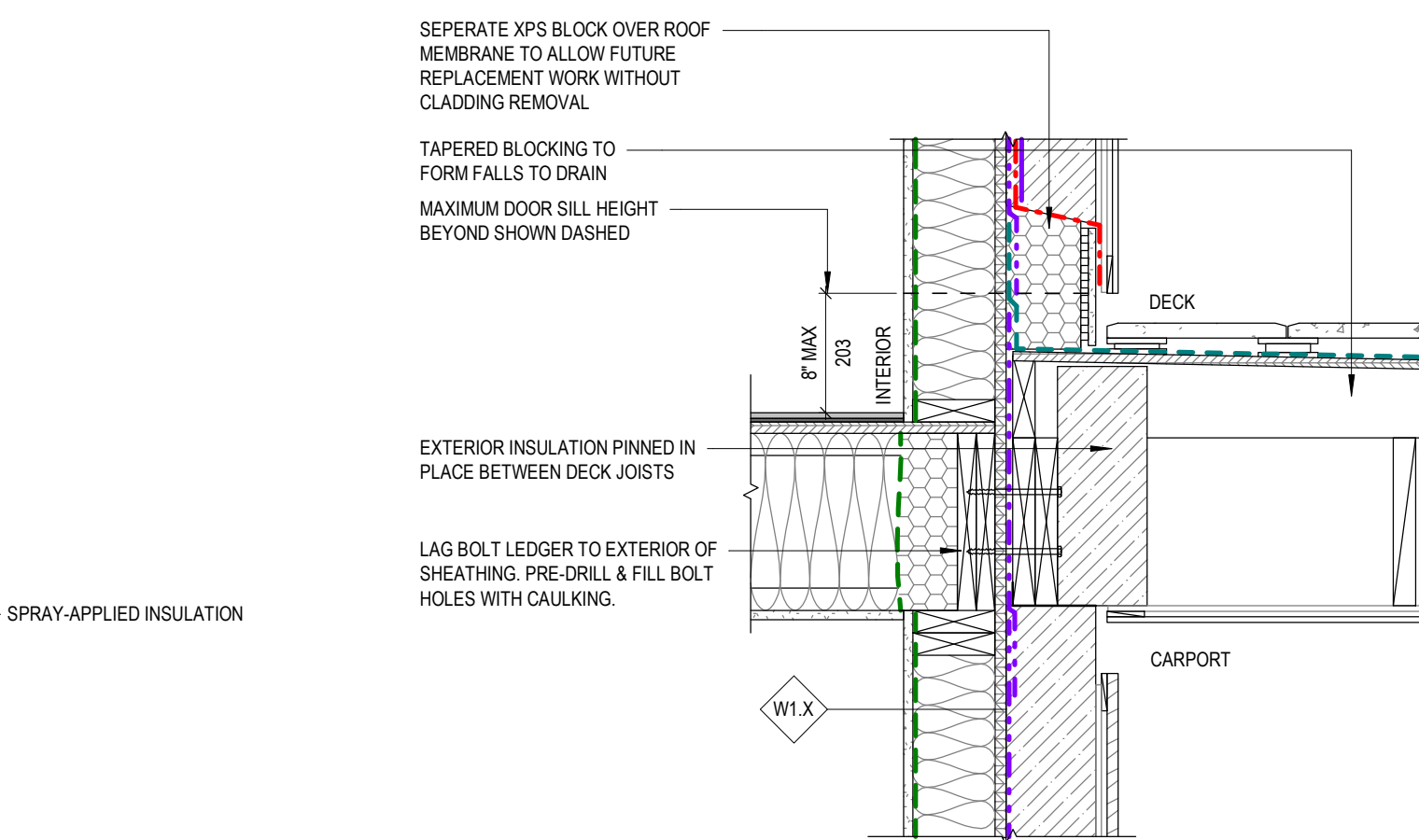


6  
A006  
TYP. ROOF DECK  
1" = 1'-0"

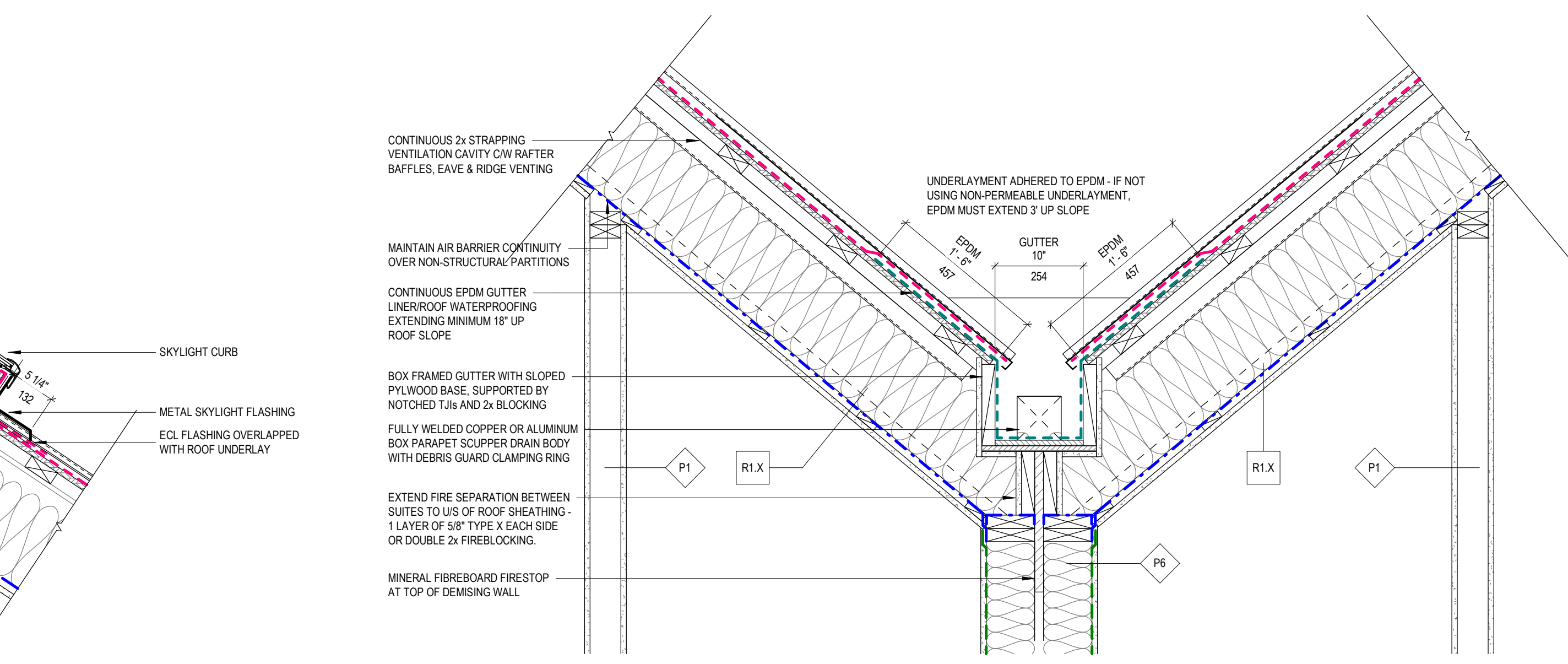


8  
A006  
SKYLIGHT - HEAD  
1" = 1'-0"

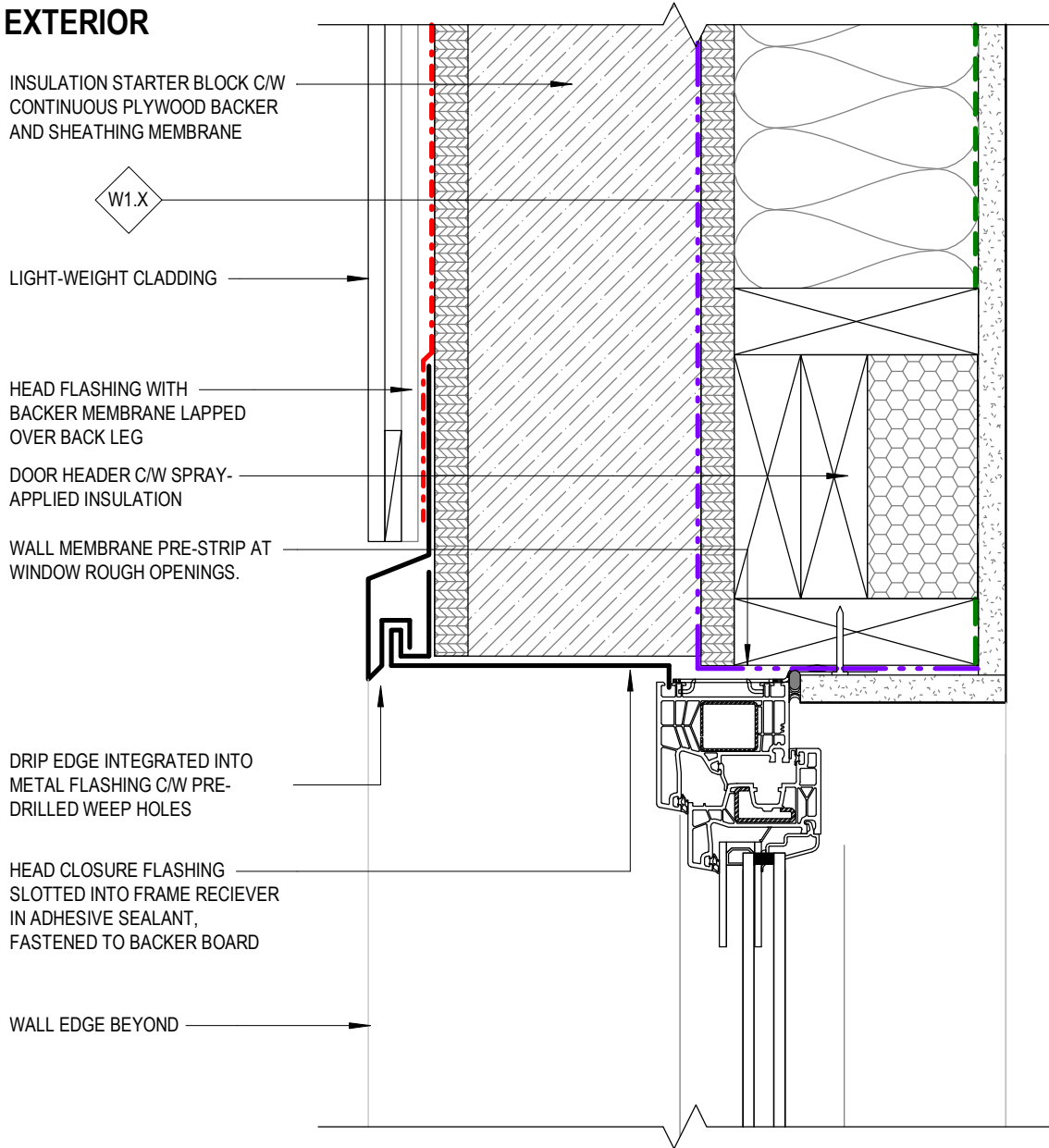
9  
A006  
SKYLIGHT - SILL  
1" = 1'-0"



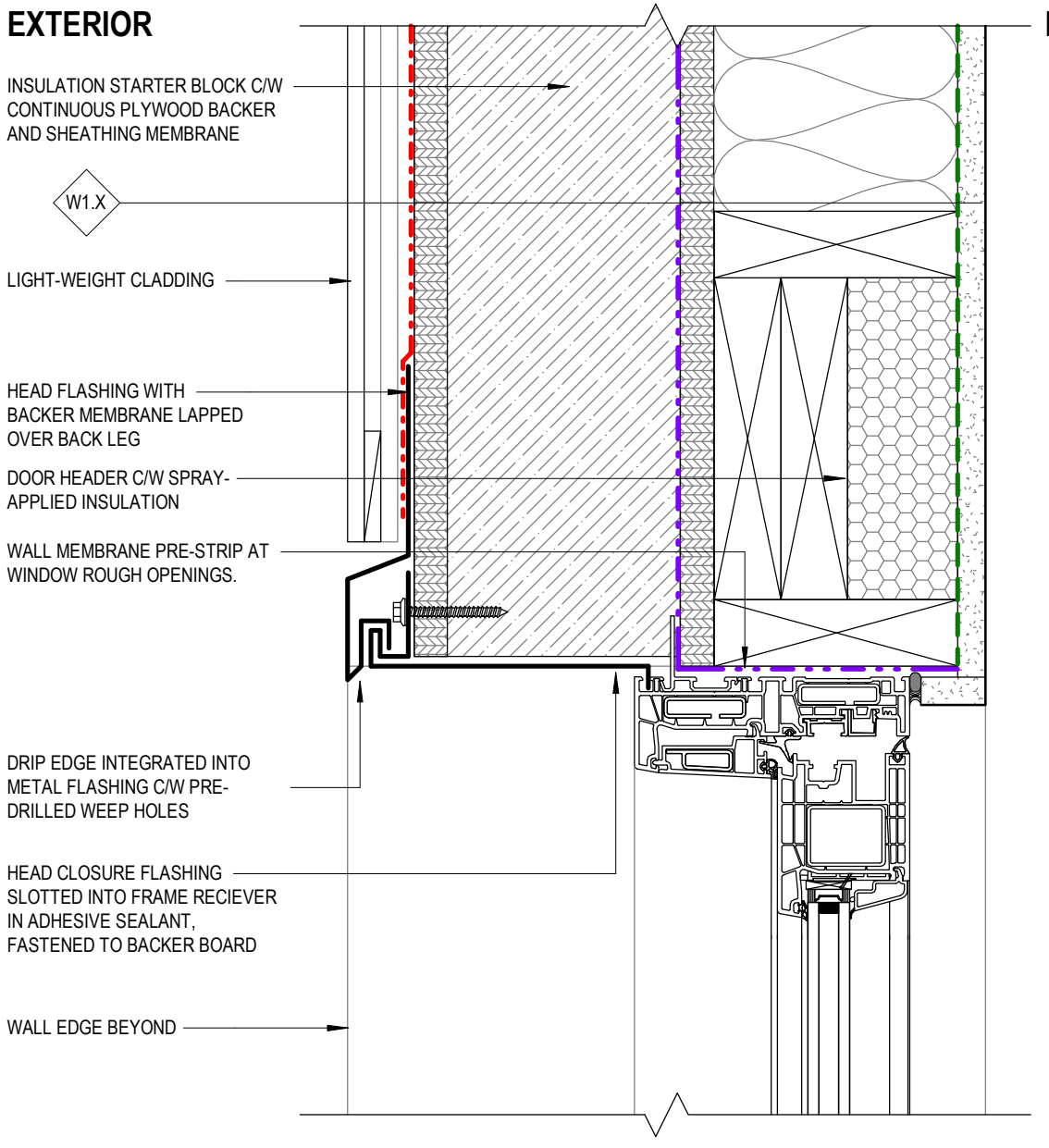
11  
A006  
TYP. CAR PORT DECK  
1" = 1'-0"



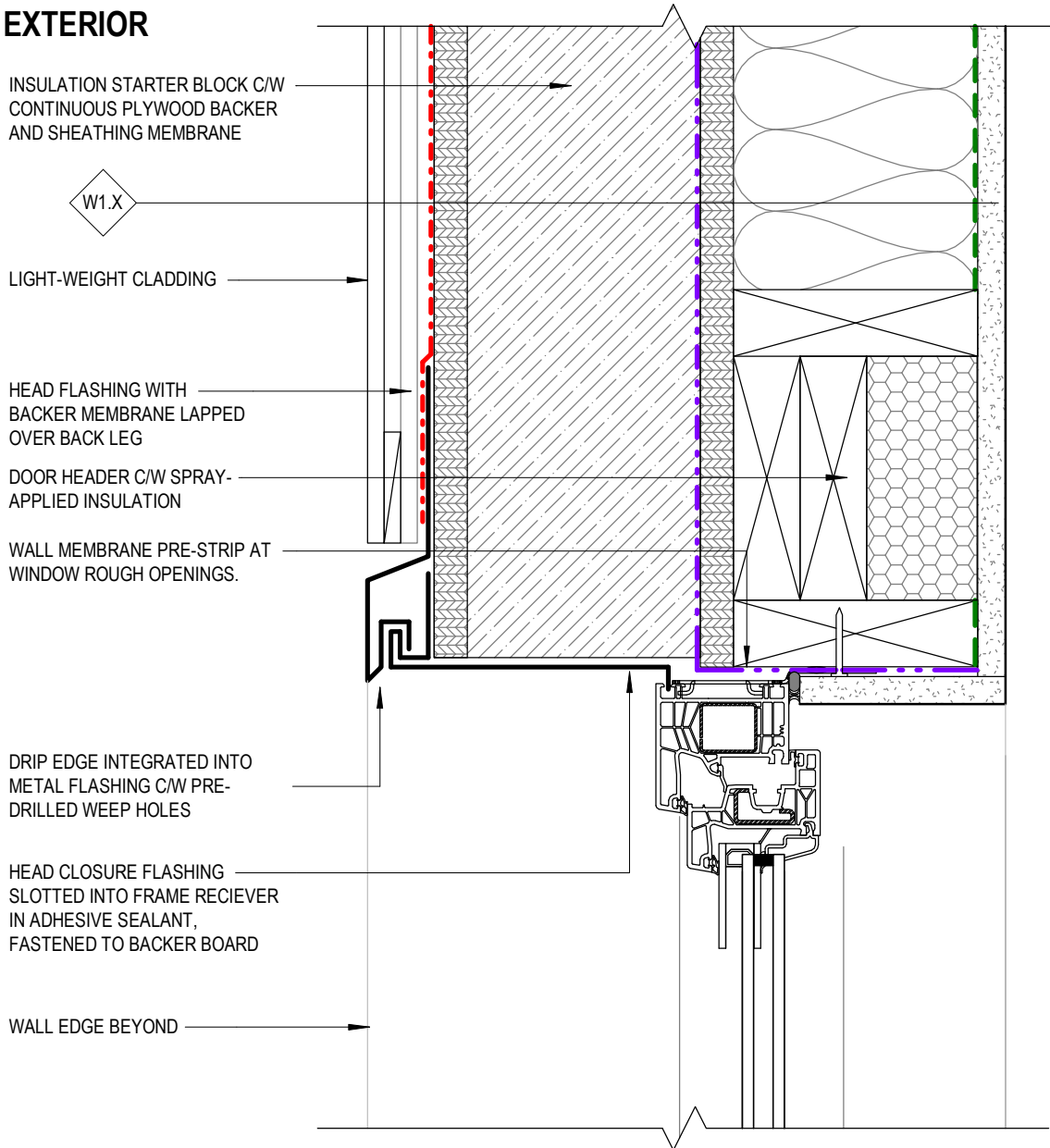
12  
A006  
TYP. VALLEY GUTTER DETAIL  
1" = 1'-0"



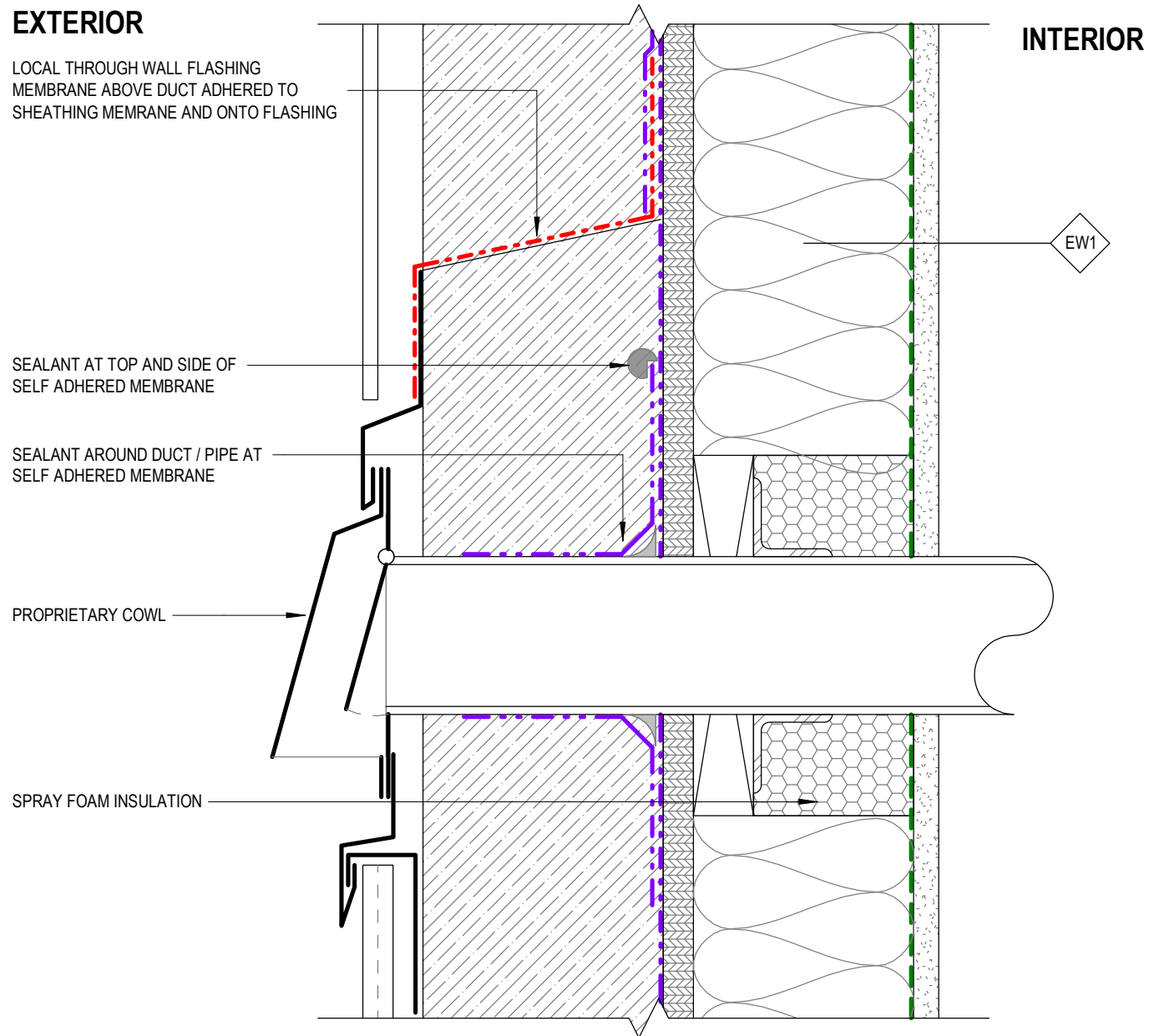
2  
A007 TYP EXTERIOR DOOR - HEAD  
3" = 1'-0"



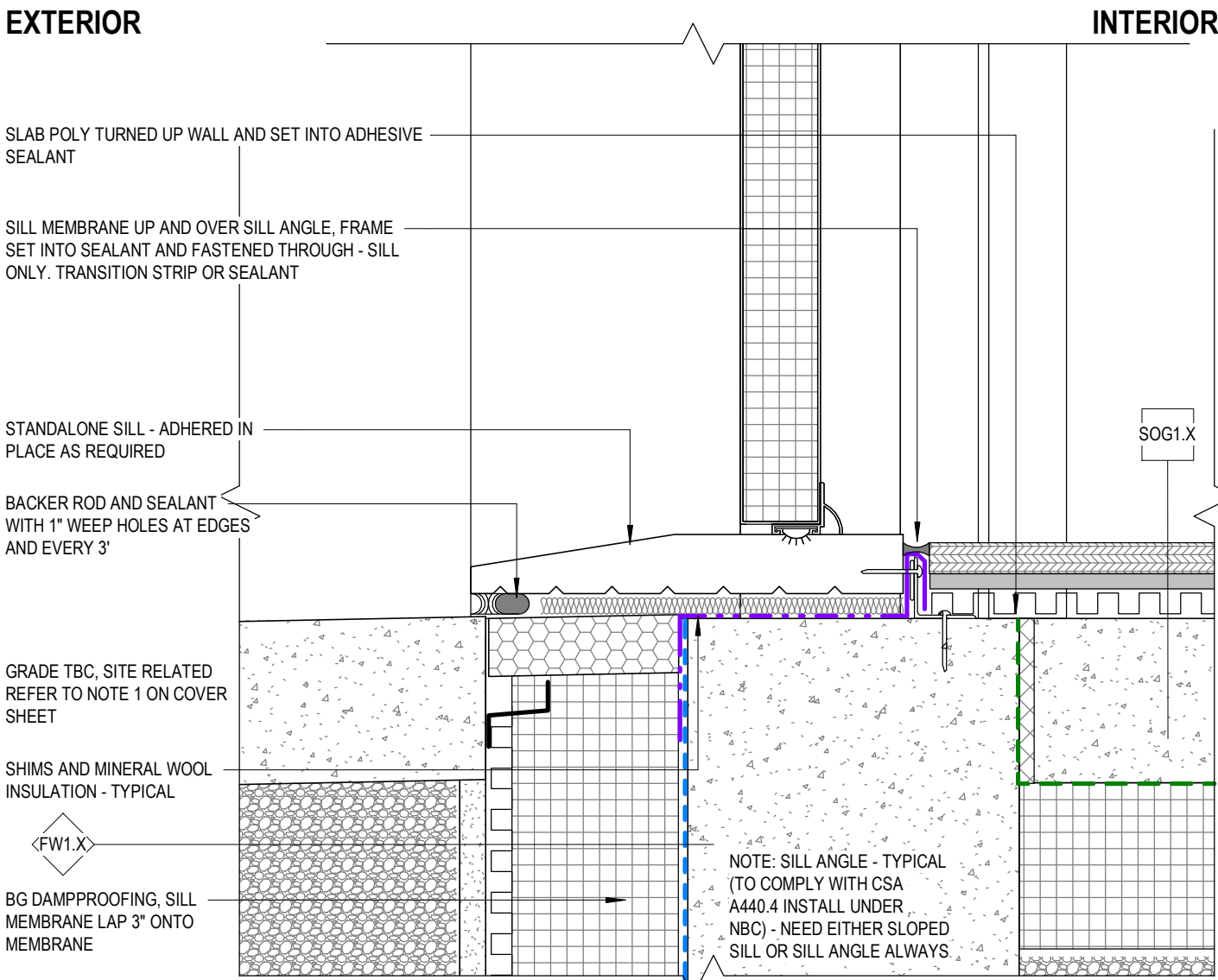
5  
A007 TYP SLIDING DOOR HEAD  
3" = 1'-0"



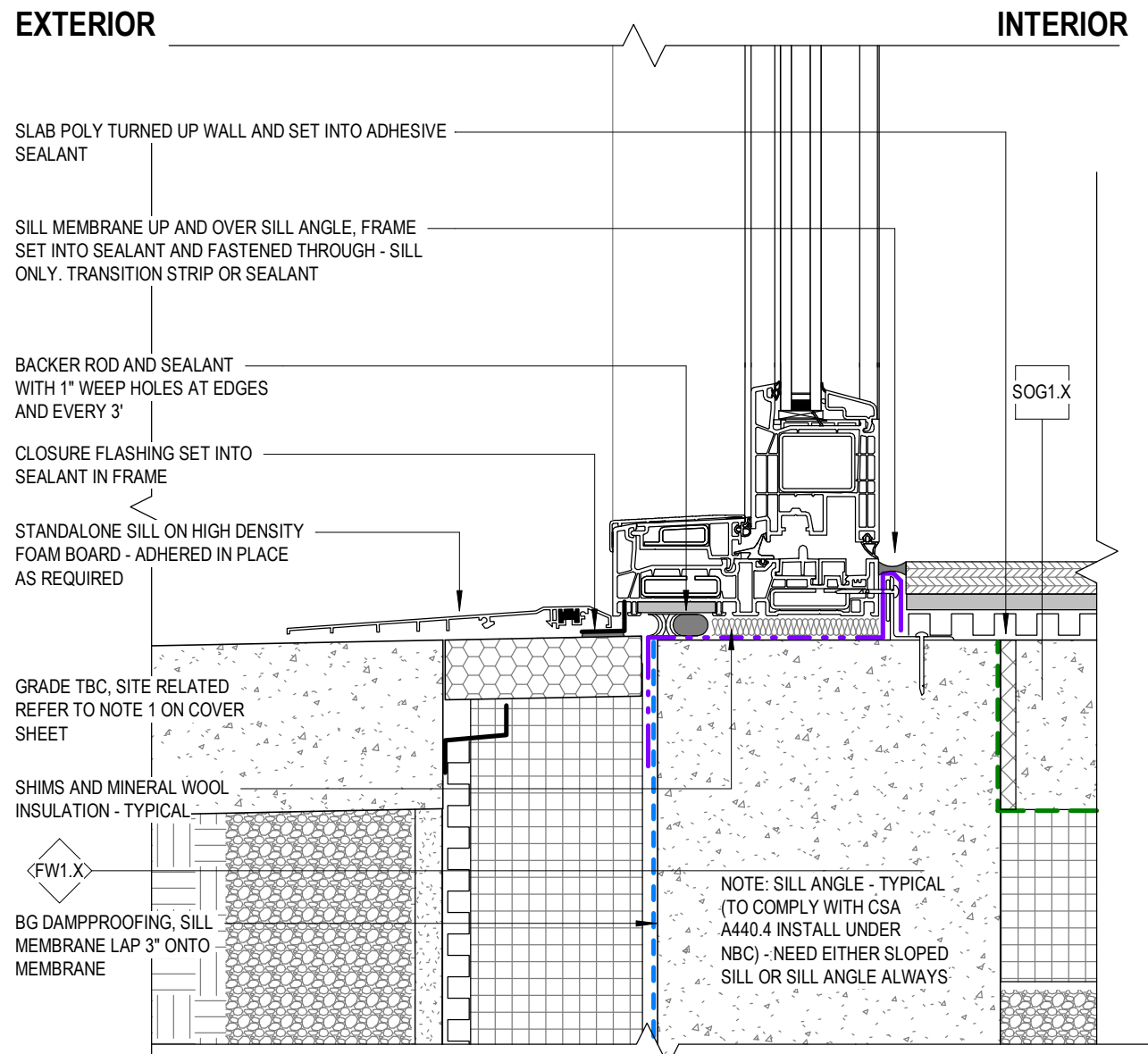
7  
A007 TYP WINDOW - HEAD  
3" = 1'-0"



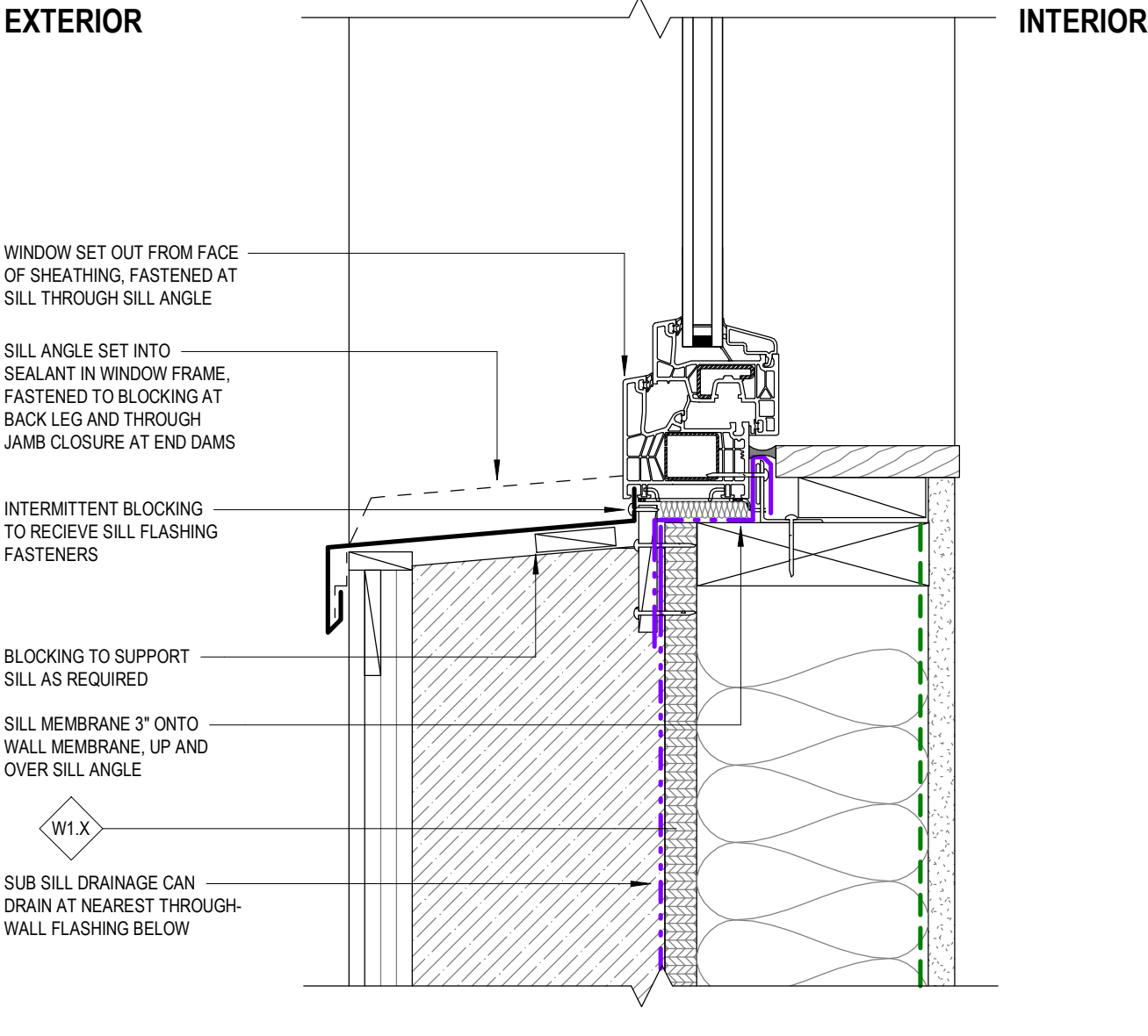
9  
A007 TYP. WALL PENETRATION  
3" = 1'-0"



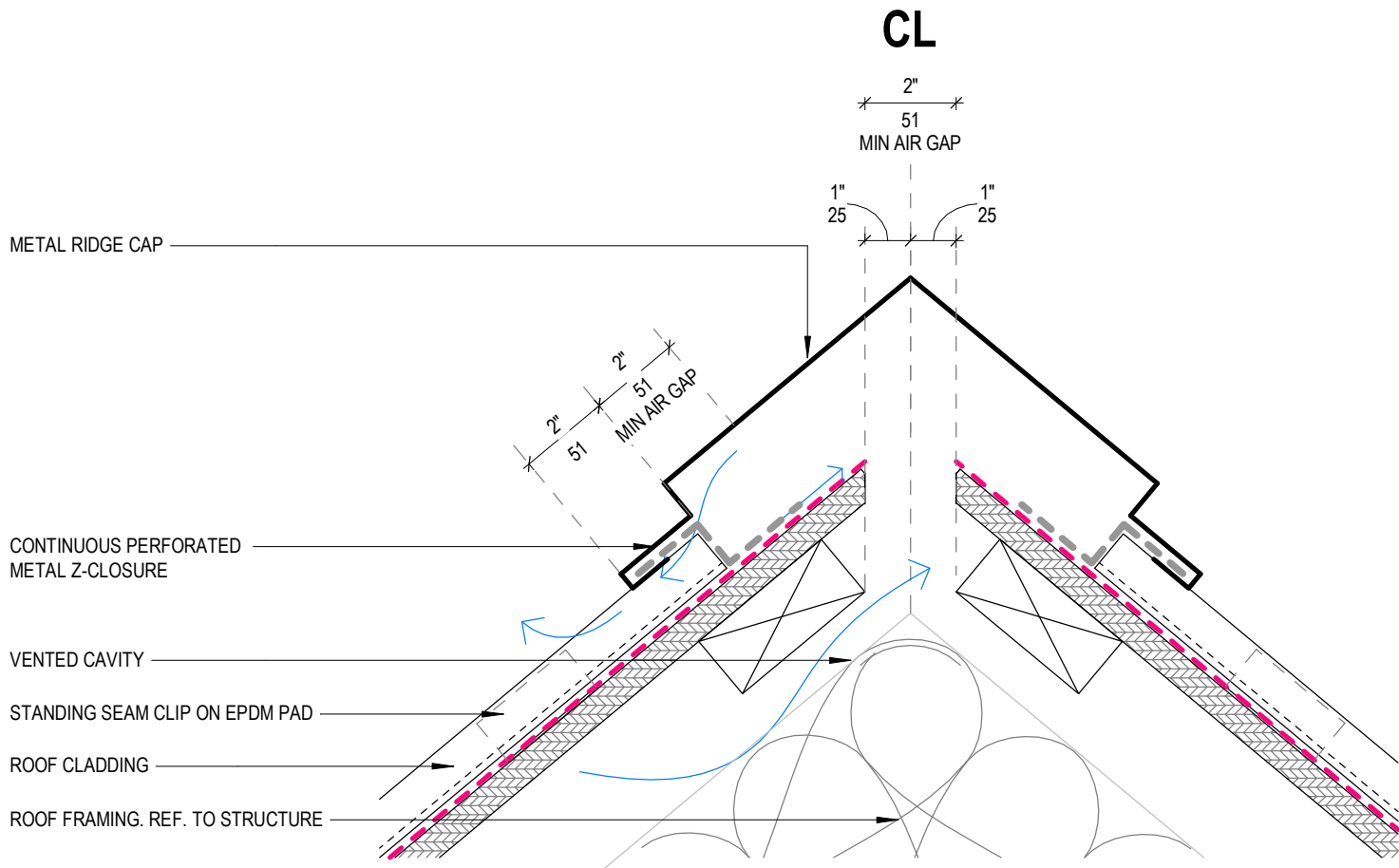
1  
A007 TYP EXTERIOR DOOR - SILL  
3" = 1'-0"



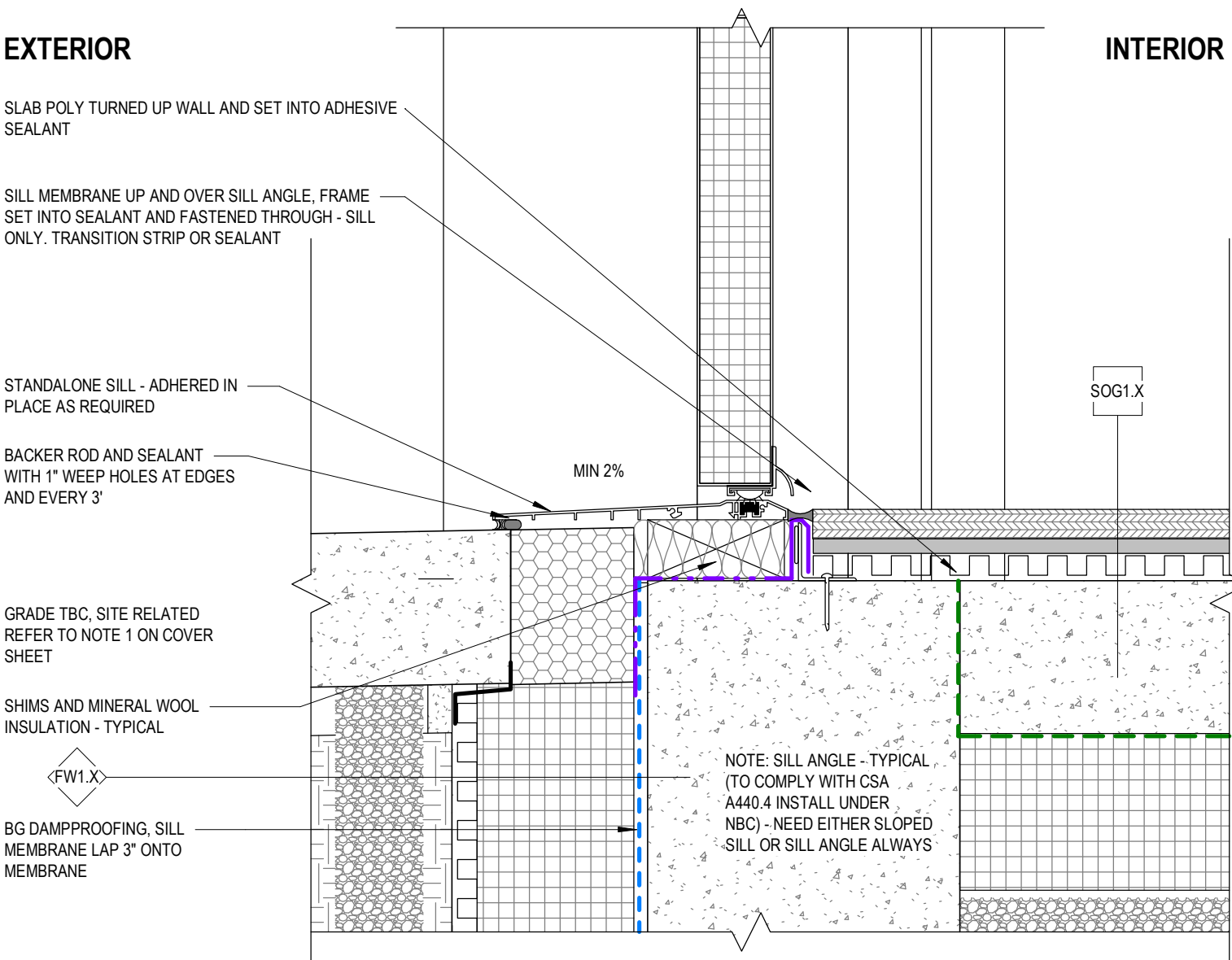
4  
A007 TYP SLIDING DOOR SILL  
3" = 1'-0"



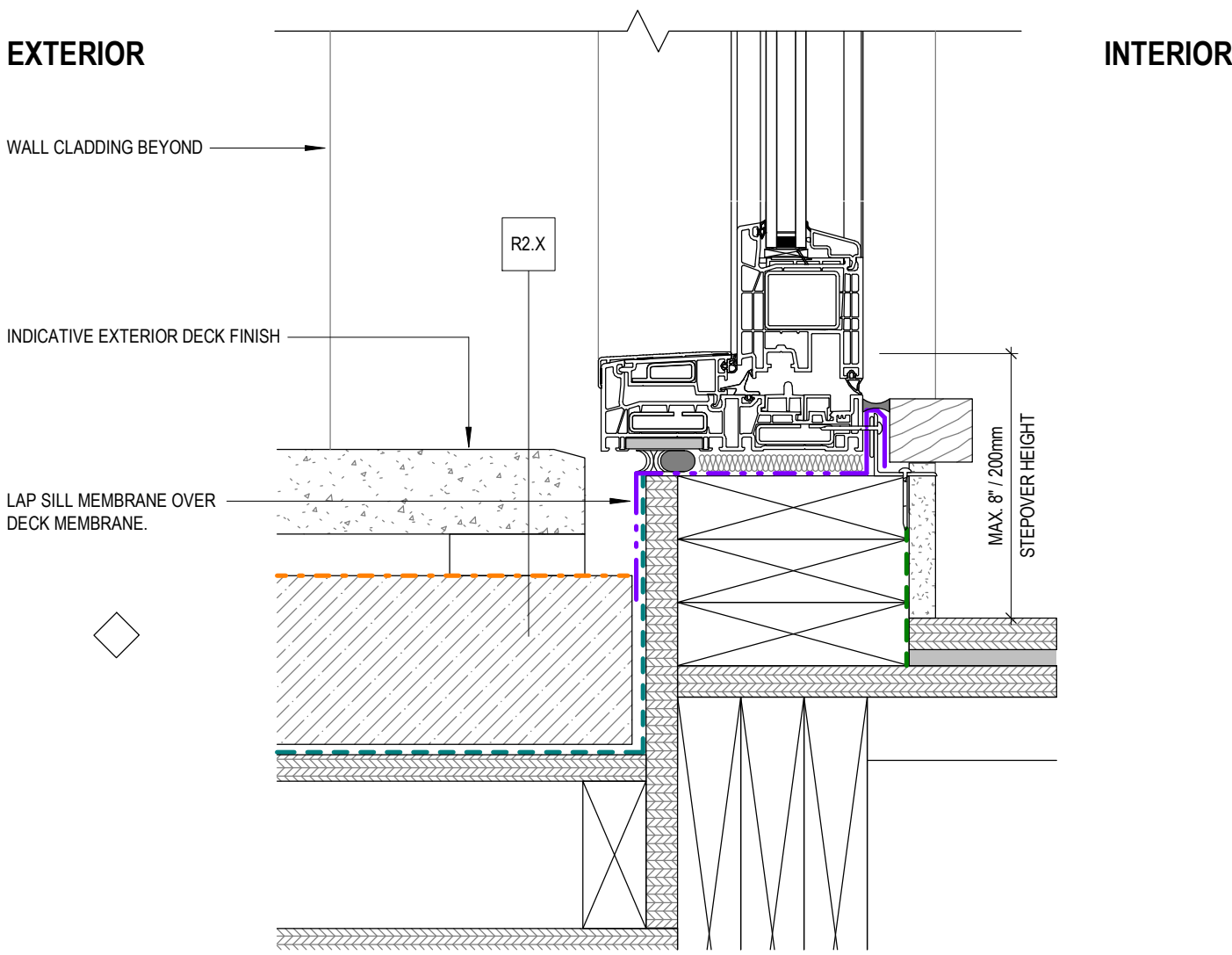
6  
A007 TYP WINDOW - SILL  
3" = 1'-0"



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



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



8  
A007 TYP SLIDING DOOR @ ROOF DECK  
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

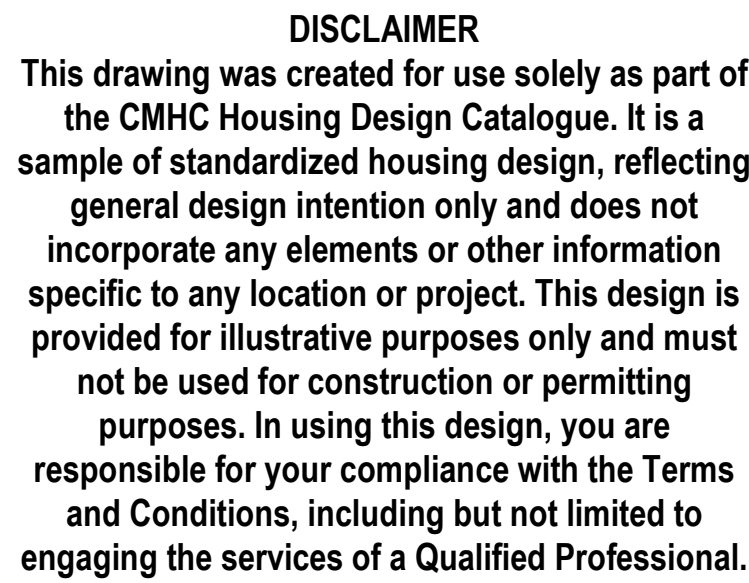
BRITISH COLUMBIA, CANADA  
**NOT FOR PERMIT  
OR CONSTRUCTION**

SHEET TITLE:  
TYPICAL DETAILS 2

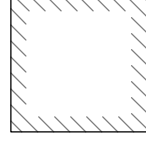
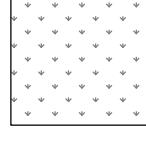
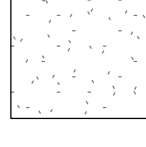
BC Duplex

PROJECT NO: 241058  
SCALE: As indicated

SHEET NO:  
**A007**



## SITE LEGEND

|                                                                                     |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | ASSUMED PROPERTY LINE |
|  | SETBACK               |
|  | BUILDING              |
|  | SOFTSCAPE             |
|  | HARDSCAPE             |

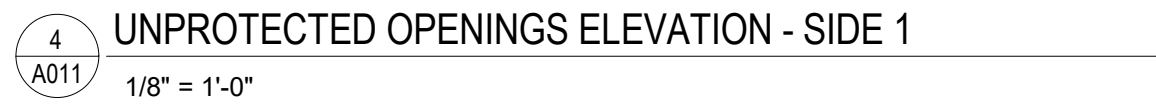
PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

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OR CONSTRUCTION

## SITE PLAN & CODE MATRIX

**PROJECT NO:** 241058  
**SCALE:** As indicated

# A010



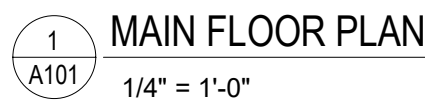
BRITISH COLUMBIA, CANADA

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OR CONSTRUCTION**

BC Duplex

SHEET NO: \_\_\_\_\_

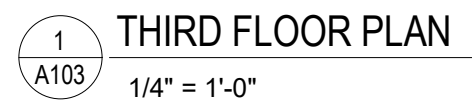
A011



SHEET NO:

A101





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PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

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SHEET TITLE:  
THIRD FLOOR PLAN

## BC Duplex

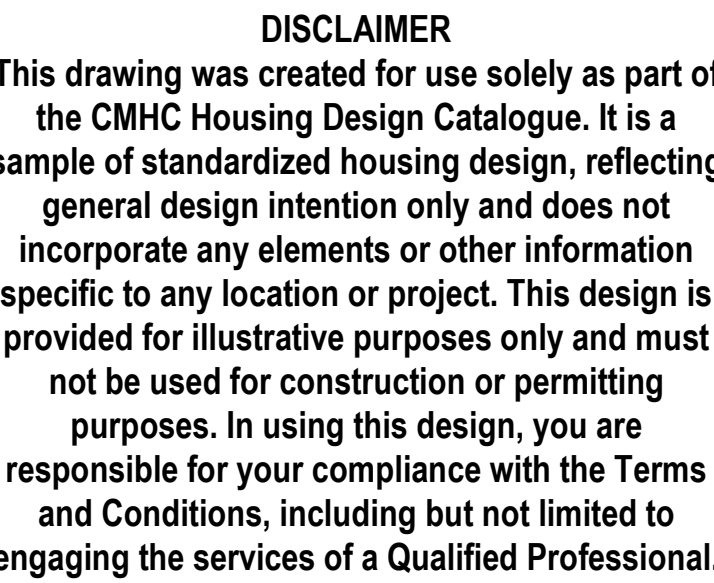
**PROJECT NO:** 241058  
**SCALE:** As indicated

SHEET NO:

# A103



| ROOF VENTING CALCULATIONS                                                                              |                         |
|--------------------------------------------------------------------------------------------------------|-------------------------|
| AREA OF ROOF [A]:                                                                                      | 1720.5sf                |
| AREA OF VENTILATION REQUIRED (A/300):                                                                  | 5.375sf (774 sq in [B]) |
| LENGTH OF ROOF EDGE AT EAVE:                                                                           | 102'-4" (1268 in [C])   |
| AVG FREE AREA DEPTH REQUIRED ALONG EAVES ((B/C)/2):<br>(EQUAL AMOUNT OF VENTILATION REQUIRED AT RIDGE) | .32 in                  |



PROJECT:

# CMHC HOUSING DESIGN CATALOGUE

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---

SHEET TITLE:

## ROOF PLAN

BC Duplex

---

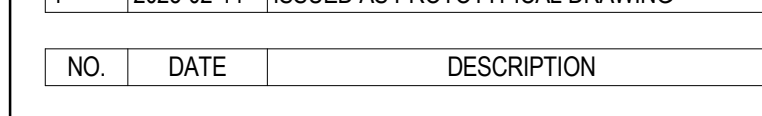
PROJECT NO: 241058

SCALE: 1/4" = 1'-0"

# A104



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# A200



| ELEVATION MATERIAL SCHEDULE |                              |
|-----------------------------|------------------------------|
| TAG                         | MATERIAL                     |
| CPH-1                       | CLADDING PLACEHOLDER, TYPE 1 |
| CPH-2                       | CLADDING PLACEHOLDER, TYPE 2 |



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[illegible]

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

PROJECT:

CMHC HOUSING DESIGN  
CATALOGUE

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SHEET TITLE:

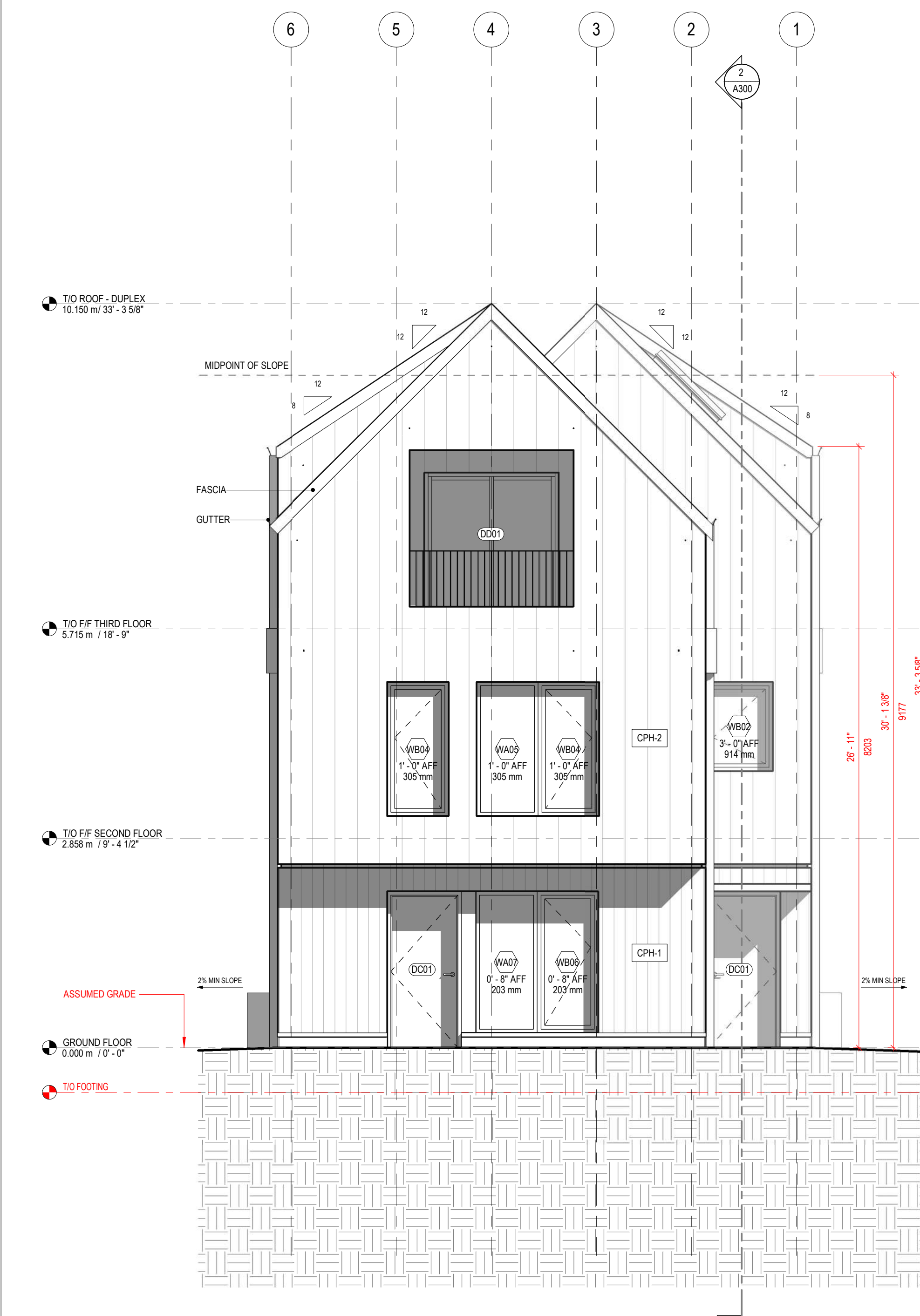
## ELEVATIONS

BC Duplex

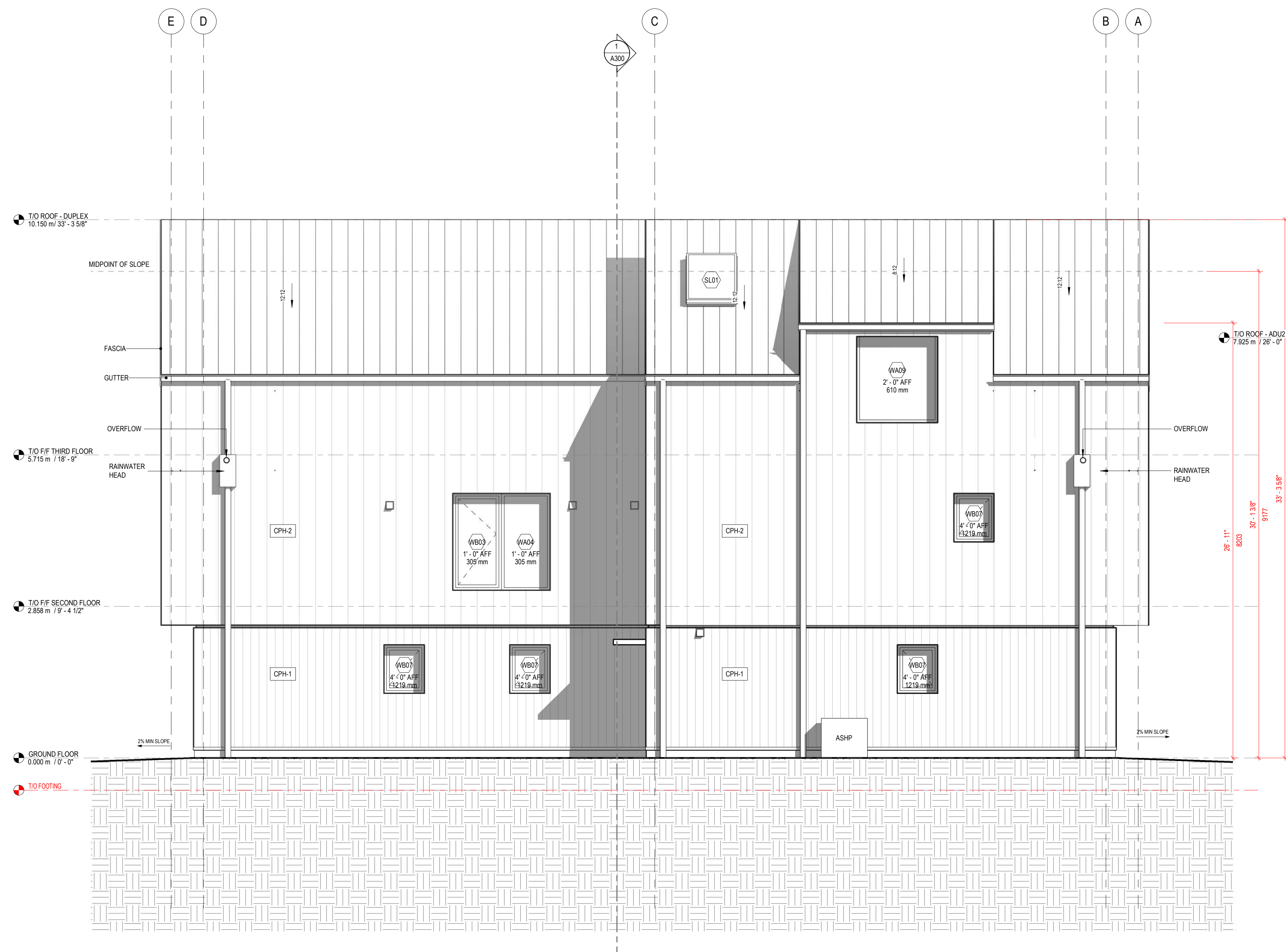
PROJECT NO: 241058  
SCALE: 1/4" = 1'-0"

SHEET NO:

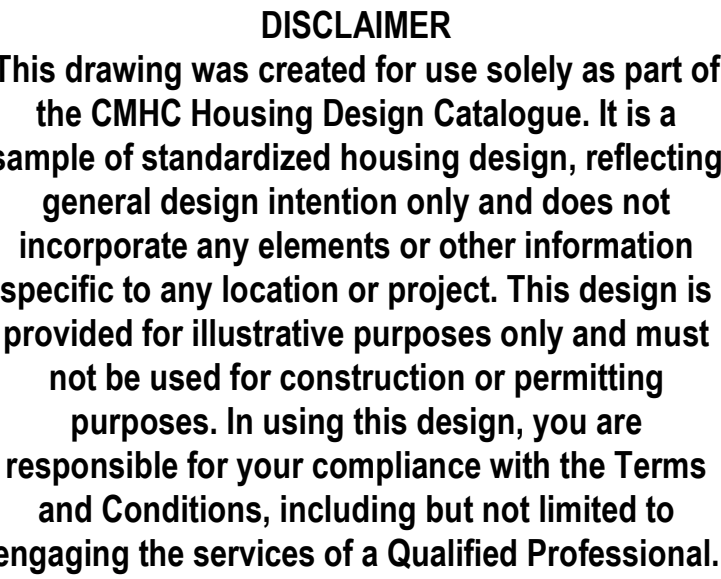
A201



1 BUILDING ELEVATION - REAR  
A201  
1/4" = 1'-0"



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



PROJECT:

# CMHC HOUSING DESIGN CATALOGUE

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OR CONSTRUCTION**

BC Duplex

SHEET NO:

A300

| SECTION GENERAL NOTES |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| 1.                    | SITE GRADE TO BE SLOPED AWAY FROM BUILDING AS PER CBCS 9.14.6.1                         |
|                       |                                                                                         |
| SECTION KEYNOTES      |                                                                                         |
| ①                     | FOUNDATIONS: ASSUMED; REFER TO STRUCTURAL                                               |
| ②                     | STAIRS AND TREADS TO CONFORM TO APPLICABLE SUBSECTIONS IN CBCS 9.8                      |
| ③                     | HANDRAILS AND GUARDS TO BE DESIGNED IN ACCORDANCE TO CBCS 9.8.7 AND 9.8.8               |
| ④                     | ASSUMED FINISHED GRADE IS FLUSH WITH FINISHED FLOOR LEVEL TO FACILITATE ZERO STEP ENTRY |



# CMHC HOUSING DESIGN CATALOGUE

## BC DUPLEX

# STRUCTURAL DRAWINGS

| STRUCTURAL SHEET LIST |                              |
|-----------------------|------------------------------|
| S000                  | COVER SHEET                  |
| S001                  | GENERAL NOTES AND SCHEDULES  |
| S101                  | FOUNDATION / MAIN FLOOR PLAN |
| S102                  | SECOND FLOOR PLAN            |
| S103                  | THIRD FLOOR PLAN             |
| S104                  | ROOF PLAN                    |



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[illegible]

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

**PROJECT:**

CMHC HOUSING DESIGN  
CATALOGUE

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**SHEET TITLE:**

COVER SHEET

BC DUPLEX

PROJECT NO: 241058  
SCALE: NTS

**SHEET NO:**

S000



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

[illegible]

---

1/4" = 1'-0"



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

---

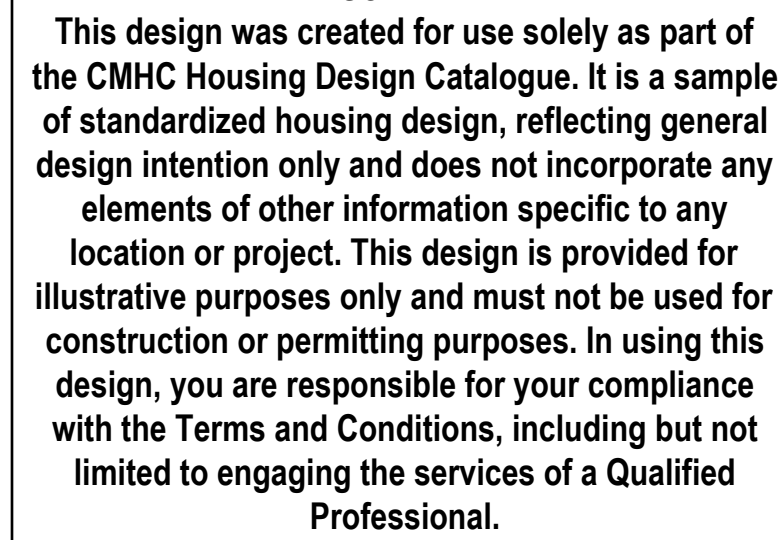
1/4" = 1'-0"



- VICTORIA
- VANCOUVER
- KELOWNA
- PRINCE GEORGE

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

---



| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

S103

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

## ROOF PLAN



# MECHANICAL DRAWINGS



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[illegible]PROJECT:

# PROJECT: CMHC HOUSING DESIGN CATALOGUE

| TYPE | 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).

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SHEET TITLE:

MECHANICAL COVER PAGE

BC DUPLEX OPTION 1

PROJECT NO: 241058  
SCALE: AS NOTED

**SHEET NO:**

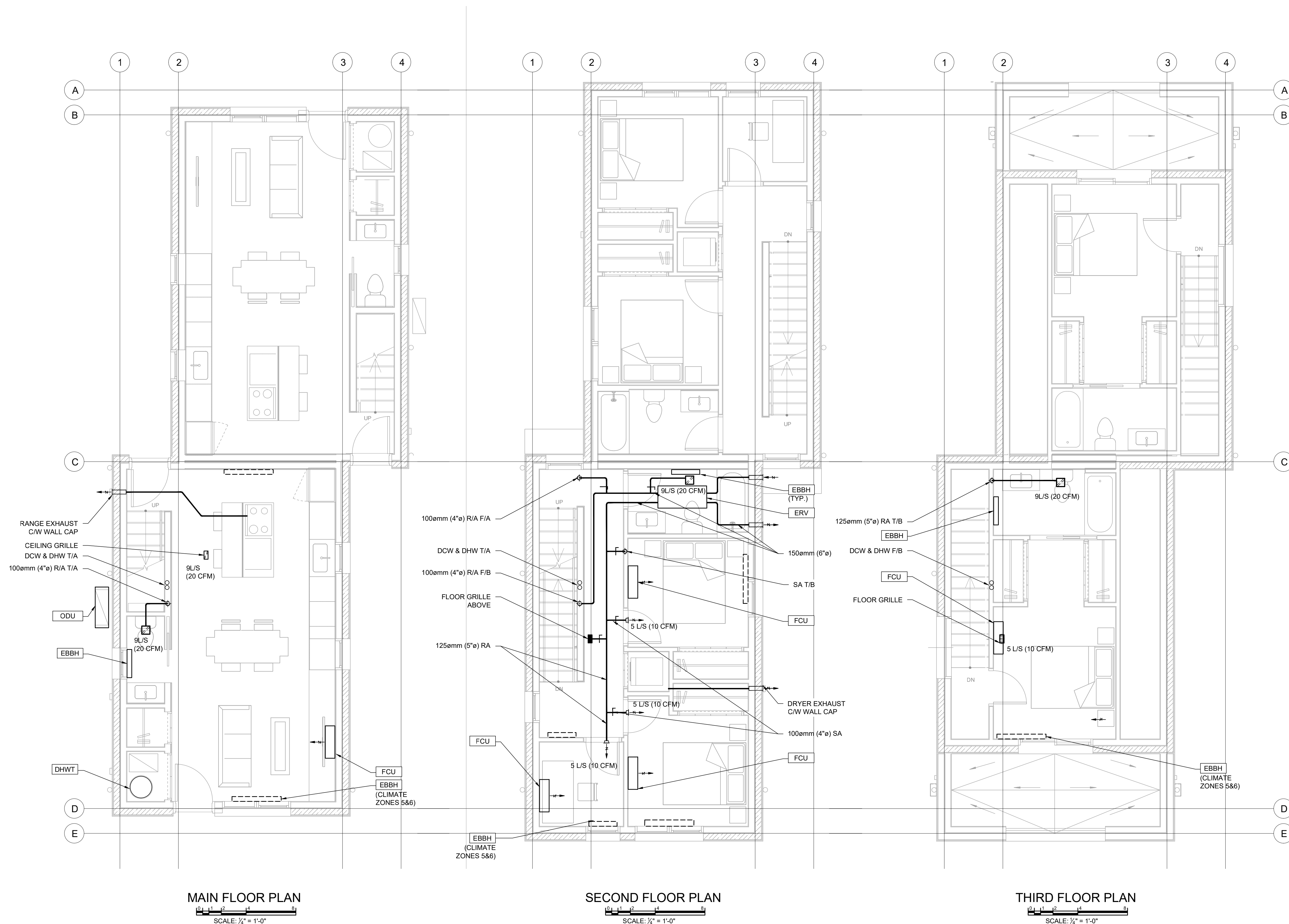
# M300

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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

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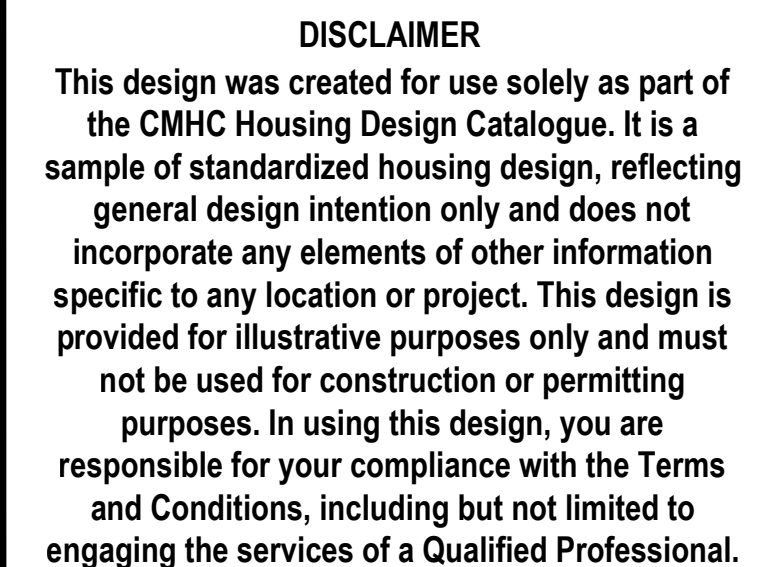
SHEET TITLE:  
BC DUPLEX MECHANICAL  
OPTION 1

PROJECT NO: 241058  
SCALE: AS NOTED

SHEET NO:

DW  
DW

M301.1



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

MECHANICAL ROOM

SCALE NTS

N.C.

RPBA

W x M

xx"Ø DCW INCOMING LINE

DOMESTIC WATER SCHEMATIC

SCALE NTS

[illegible]

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

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SHEET TITLE:

MECHANICAL DETAILS

PROJECT NO: 241058  
SCALE: AS NOTED

M001



# MECHANICAL DRAWINGS



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[illegible]

PROJECT:

# CMHC HOUSING DESIGN CATALOGUE

\* 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. AIRFLOW RATE PER CBC2024
  - 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

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MECHANICAL COVER PAGE

## BC DUPLEX OPTION 2

**SHEET NO:**

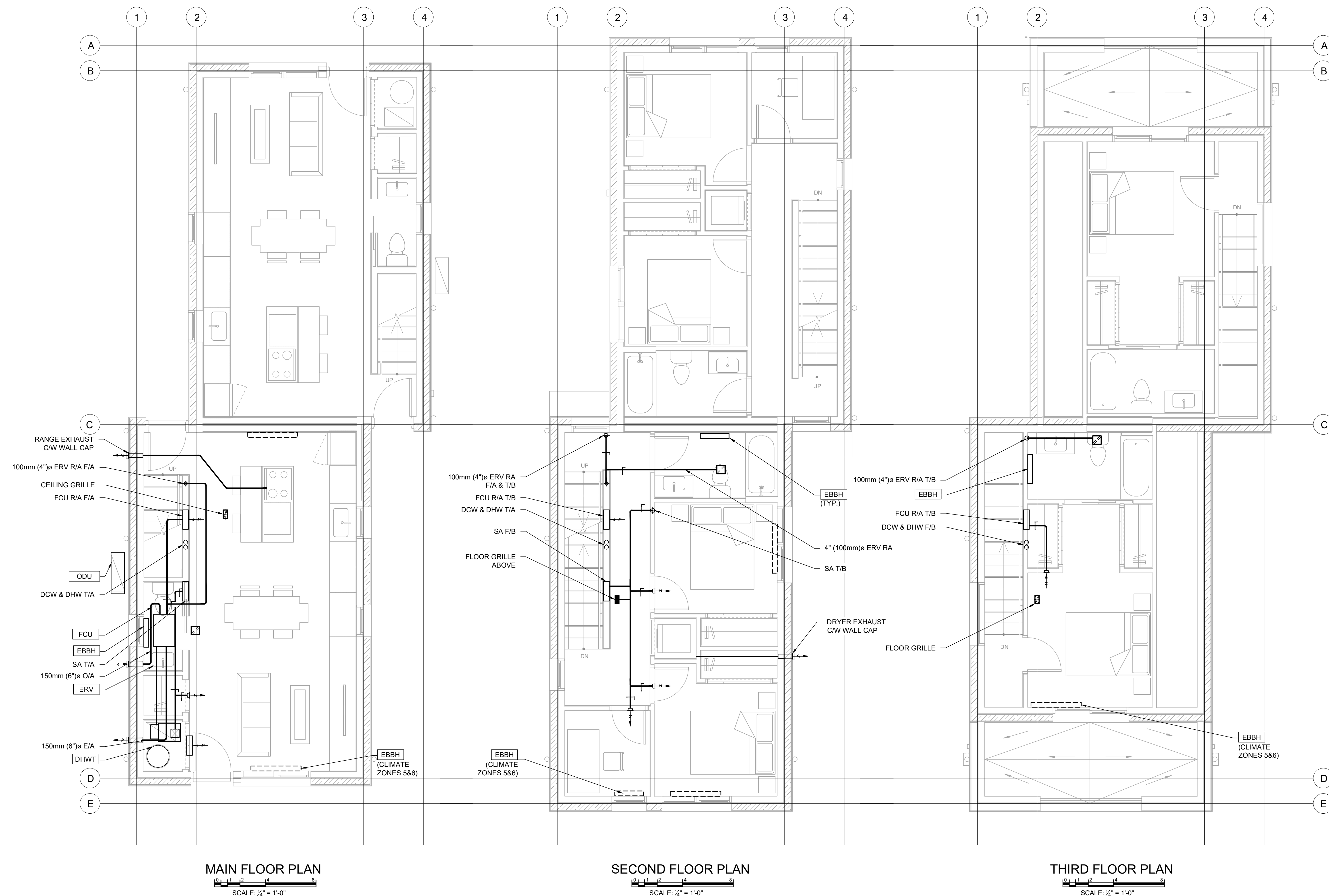
# M300

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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.
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.



|   |            |                                |
|---|------------|--------------------------------|
| 1 | 2025-02-14 | ISSUED AS PROTOTYPICAL DRAWING |
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PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

BRITISH COLUMBIA, CANADA

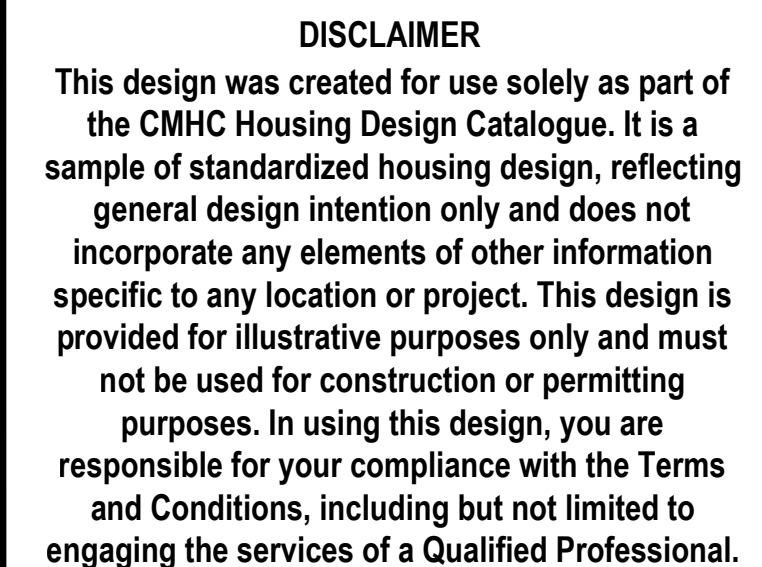
NOT FOR PERMIT  
OR CONSTRUCTION

SHEET TITLE:  
BC DUPLEX MECHANICAL  
OPTION 2

PROJECT NO: 241058  
SCALE: AS NOTED

SHEET NO: DW  
DW

M301.2



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

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

OUTDOOR AIR DUCT FROM ERV

HEAT PUMP RETURN AIR PLENUM

HEAT PUMP

CONDENSING UNIT

ACoustically INSULATED WALL

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

FUNNEL FLOOR DRAIN W/ P-TRAP

CONDENSATE DRAIN LINE

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 the domestic water supply system for a suite. It begins with an "xx"Ø DCW INCOMING LINE" at the bottom left, which enters the suite through a wall. The line passes through a "REMOTE READER" (represented by a rectangle) and a "WATER LINE TO REST OF SUITE" before entering a "MECHANICAL ROOM". Inside the mechanical room, the line is equipped with a "SCALE NTS" (Scale of NTS) and a "RPBA" (Residual Pressure Break Assembly). The line then passes through a "N.C." (Normally Closed) valve and a "W x M" (Water Meter) before exiting the mechanical room. The line is shown with various fittings, including elbows and tees, and is labeled with "SCALE NTS" at two different points.

[illegible]

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

PROJECT:  
CMHC HOUSING DESIGN  
CATALOGUE

BRITISH COLUMBIA, CANADA

**NOT FOR PERMIT  
OR CONSTRUCTION**

SHEET TITLE:

MECHANICAL DETAILS

PROJECT NO: 241058  
SCALE: AS NOTED

M001

## 1. GENERAL

- VENTILATION
- 9.1. DUCTWORK
1. DUCTWORK SHALL BE GALVANIZED STEEL, FABRICATED IN ACCORDANCE WITH RECENT SMACNA DUCT MANUALS AND ASHRAE HANDBOOKS. DUCTWORK SHALL MEET THE REQUIREMENTS OF NFPA 90A AND 91 AND CONFORM WITH ALL APPLICABLE CODES.
2. PRIOR TO START OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS AND CONFLICTS WITH OTHER TRADES.
3. THE MINIMUM SECT METAL THICKNESS FOR LOW PRESSURE DUCTS, INCLUDING FITTINGS, ACCESS DOORS AND OTHER ACCESSORIES, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".
4. DUCT SIZES ON DRAWINGS INDICATE INSIDE CLEAR DIMENSIONS. ADJUST ACTUAL SECT METAL DIMENSIONS TO ACCOMMODATE ACOUSTICALLY LINED OR INTERNALLY INSULATED DUCTS.
5. ALL TRANSVERSE DUCT JOINTS SHALL BE SEALED (CLASS C SMACNA) WITH DUCT SEALANT. FLEXIBLE DUCTWORK SHALL BE EQUAL TO THERMAFLEX TYPE ST OR E.H. PRICE MK-10.
6. CONNECT DIFFUSERS TO DUCTS WITH 1.5m (5'-0") MAXIMUM LENGTH OF FLEXIBLE DUCT. HOLD IN PLACE WITH CAULKING COMPOUND AND STRAP OR CLAMP. FLEXIBLE DUCTWORK SHALL NOT FORM ANY DIPS, KINKS OR LOOPS.
7. PROVIDE RETURN AIR OPENINGS AND/OR INSULATED SOUND TRAPS WHERE INDICATED.
- 9.1. AIR OUTLETS: PROVIDE AIR OUTLETS AS SPECIFIED ON THE DRAWINGS.
- 9.2. HEAT/ENTHALPY RECOVERY VENTILATORS (HRV/ERV):
1. ECM BLOWERS RATED FOR CONTINUOUS OPERATION (PSC MOTORS NOT ACCEPTABLE), DRAIN PAN AND CONDENSATE DRAIN CONNECTION, AUTOMATIC FAN CYCLED DEFROST, INTEGRATED BACKDRIFT DAMPERS. UNIT SHALL INCLUDE OPTION FOR FURNACE/FAN-COIL INTERLOCK AND DUAL-SPEED SWITCH OPERATION.
2. POLY HEAT EXCHANGER CORE SHALL BE WASHABLE AND REMOVABLE WITH 10 YEAR WARRANTY.
- 9.1. THE AIR HVAC SYSTEM SHALL OPERATE FOR A MINIMUM OF 48 CONSECUTIVE HOURS PRIOR TO THE DELIVERY OF THE EQUIPMENT.
- 9.2. ON COMPLETION OF CONSTRUCTION, INCLUDE REPLACEMENT OF FILTERS FOR ALL HVAC SERVING THE SPACE, INCLUDING THOSE EXISTING (MATCH EXISTING TYPE AND SIZE).
- 9.3. THE CONTRACTOR SHALL PROTECT ALL EQUIPMENT AND OPEN ENDED DUCTS THROUGHOUT CONSTRUCTION. UPON COMPLETION, DUCT CLEANLINESS WILL BE REVIEWED BY CONSULTANT ON SIGHT. IF DUCTWORK CLEANLINESS IS NOT TO THE CONSULTANT'S SATISFACTION, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENGAGING A PROFESSIONAL DUCT CLEANING CONTRACTOR (ED IT) TO POWER CLEAN ALL DUCTWORK WITHIN THE SPACE, AT NO ADDITIONAL COST TO THE OWNER.

- ## 10.1. EXECUTION

- END OF SPECIFICATION

## DISCLAIMER

The design 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 of 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.

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| NO. | DATE | DESCRIPTION |
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**PROJECT:**

# CMHC HOUSING DESIGN CATALOGUE

BRITISH COLUMBIA, CANADA

NOT FOR PERMIT  
OR CONSTRUCTION

**SHEET TITLE:**

## MECHANICAL SPECIFICATIONS

PROJECT NO: 241058  
SCALE: AS NOTED

SHEET NO:

M002

# ELECTRICAL DRAWINGS



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| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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BRITISH COLUMBIA, CANADA

**SHEET TITLE:**

## BC DUPLEX

**SHEET NO:**

# E000



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PROJECT:  
**CMHC HOUSING DESIGN CATALOGUE**

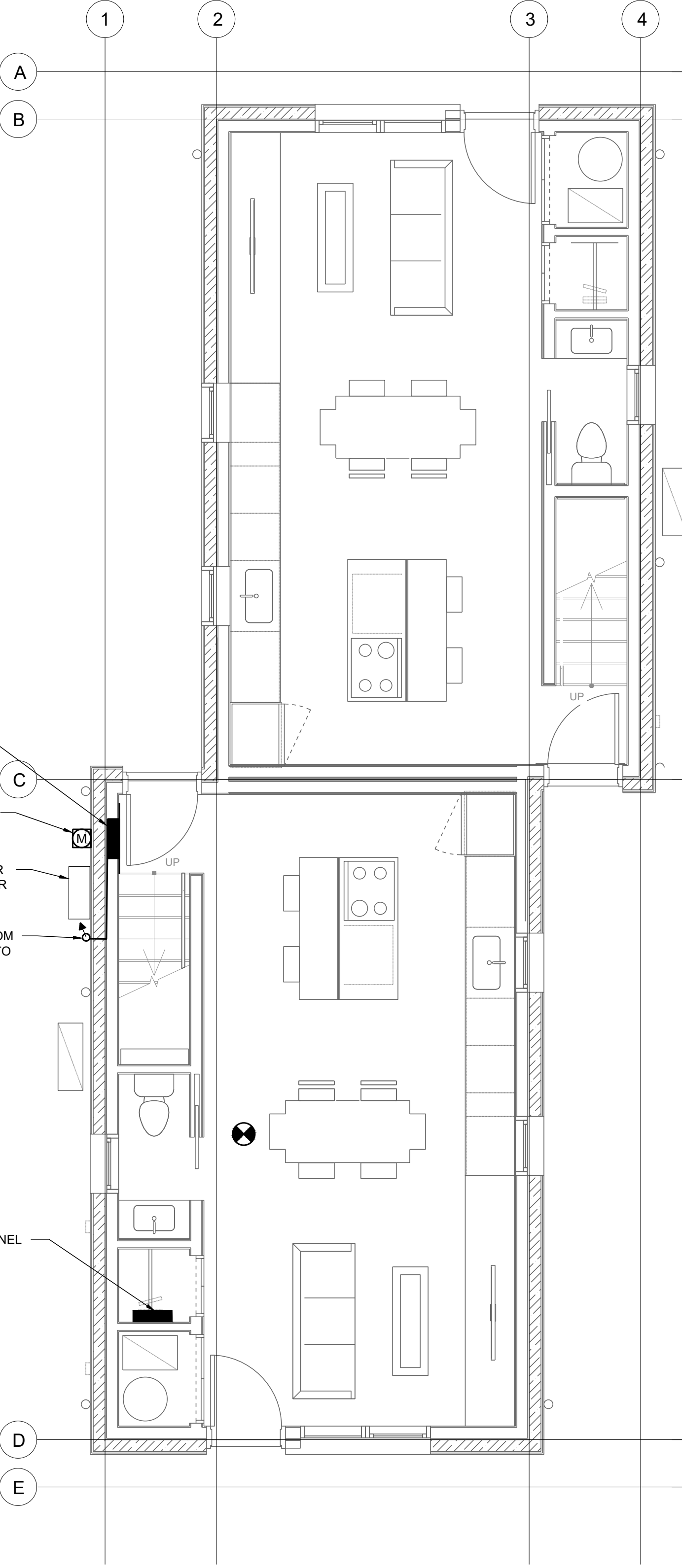
BRITISH COLUMBIA, CANADA  
**NOT FOR PERMIT OR CONSTRUCTION**

SHEET TITLE:  
**DUPLEX ELECTRICAL PLANS**

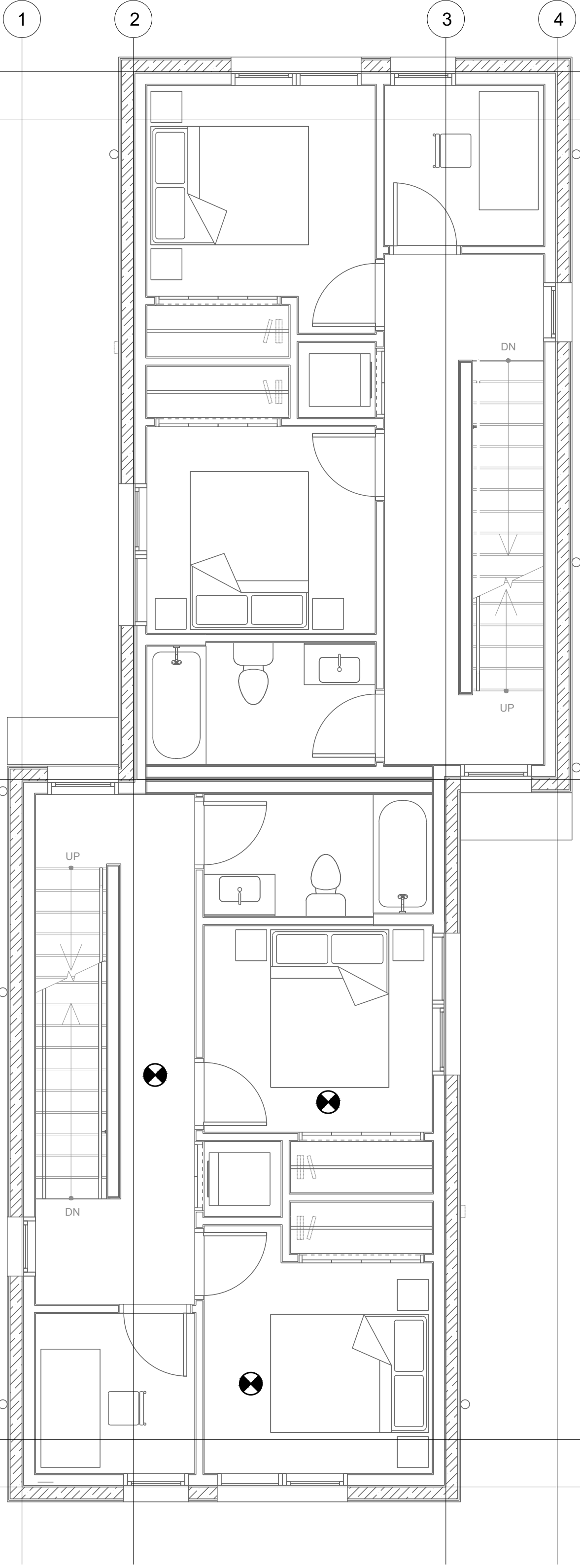
**BC DUPLEX**

PROJECT NO: 241058  
SCALE: AS NOTED

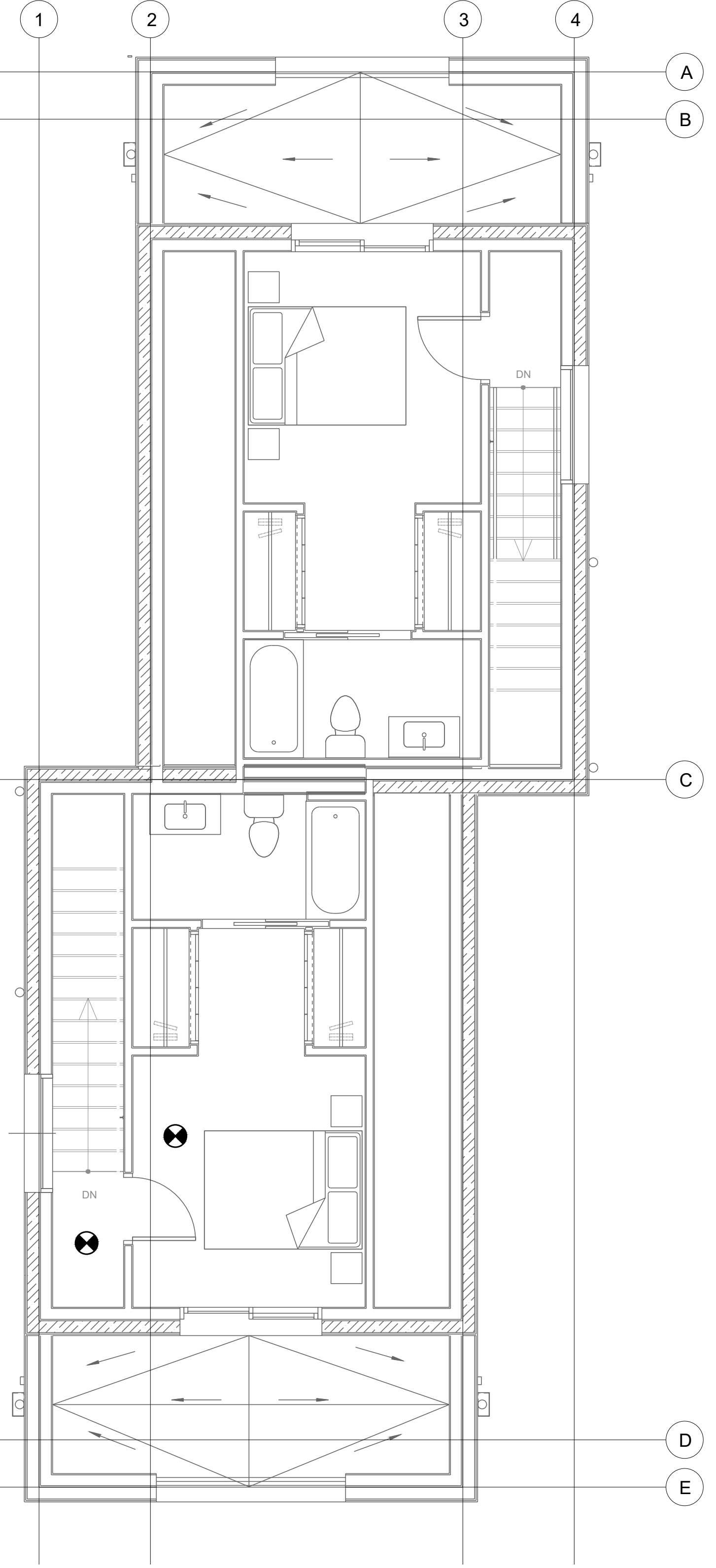
SHEET NO:  
**E101**



DUPLEX LEVEL 1 FLOOR PLAN  
SCALE: 3/4" = 1'-0"



DUPLEX LEVEL 2 FLOOR PLAN  
SCALE: 3/4" = 1'-0"



DUPLEX LEVEL 3 FLOOR PLAN  
SCALE: 3/4" = 1'-0"

