

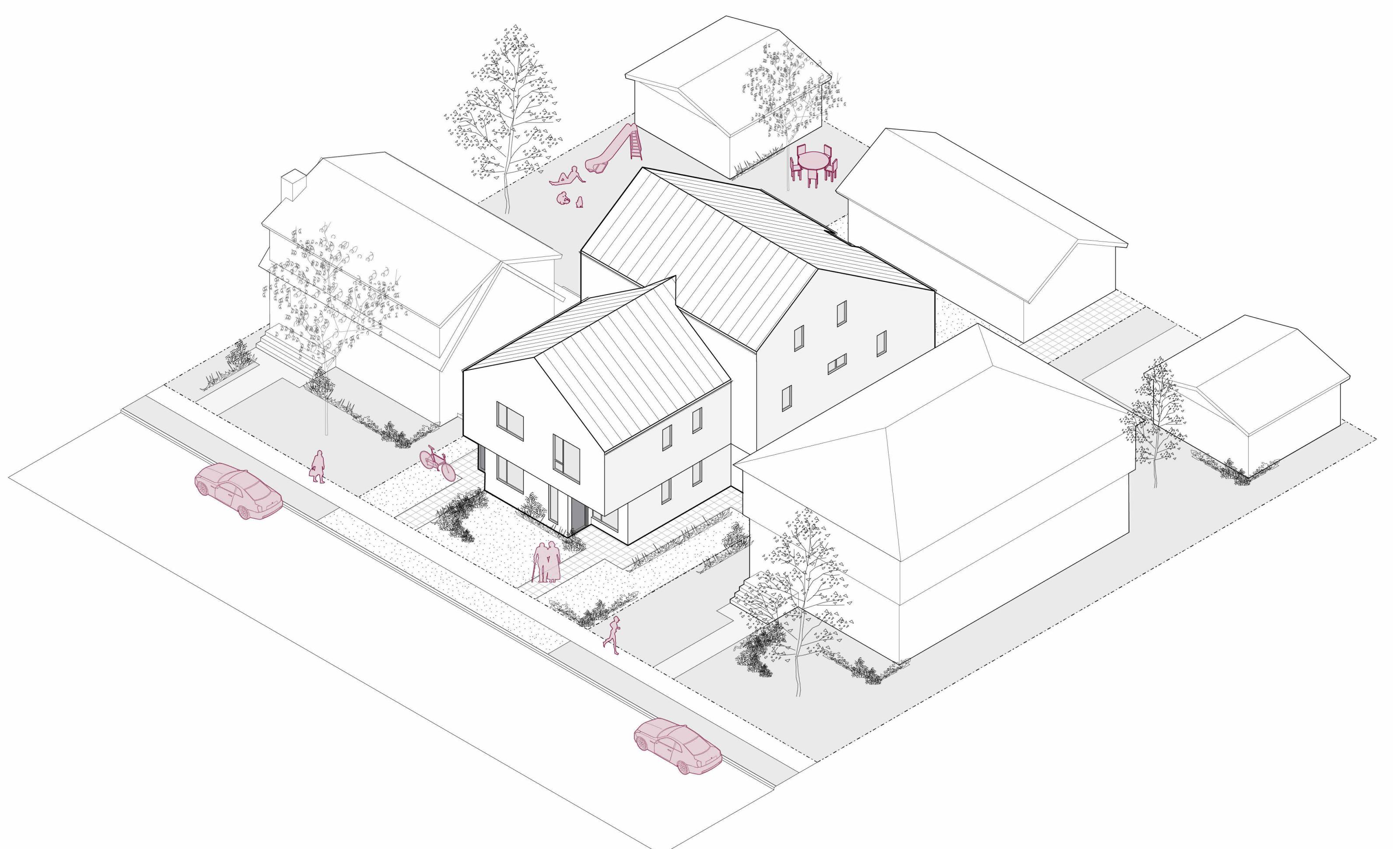


HOUSING DESIGN CATALOGUE AB SIXPLEX

CMHC HOUSING DESIGN CATALOGUE

AB SIXPLEX

ARCHITECTURAL DRAWINGS



BUILDING DATA	
BUILDING FOOTPRINT	209.40m ² (2,253.96ft ²)
BUILDING HEIGHT	11.27m (37'-0")
STOREYS	3 STOREY
NUMBER OF UNITS	6
UNIT SUMMARY	
UNIT 1	2 BEDROOM, 1 BATHROOM, ACCESSIBLE READY
UNIT 1(ALT)	1 BEDROOM, 1 BATHROOM, ENHANCED ACCESSIBILITY
UNIT 2	2 BEDROOM, 1 BATHROOM
UNIT 3	1 BEDROOM, 1 BATHROOM
UNIT 4	1 BEDROOM, 1 BATHROOM
UNIT 5	3 BEDROOM, 2 BATHROOM
UNIT 6	3 BEDROOM, 2 BATHROOM

ARCHITECTURAL SHEET LIST	
000	TITLE SHEET
A000	COVER SHEET
A003	ASSEMBLIES SCHEDULE
A004	OPENINGS SCHEDULE
A005	FIRE RATING DETAILS
A006	TYP. DETAILS
A007	TYP. DETAILS
A009	TYP. DETAILS
A010	SITE PLAN & CODE MATRIX
A101	MAIN FLOOR PLAN - ACCESSIBLE READY
A101a	MAIN FLOOR PLAN - ENHANCED ACCESSIBILITY
A102	SECOND FLOOR PLAN
A103	THIRD FLOOR PLAN
A104	ROOF PLAN
A200	ELEVATIONS
A201	ELEVATIONS
A300	SECTIONS
A301	SECTIONS

DISCLAIMER
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ABBREVIATIONS

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

ARCH	ARCHITECTURAL
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
NBC (AE)	NATIONAL BUILDING CODE (ALBERTA EDITION)
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
O/C	ON CENTRE
RM	ROOM
R/O	ROUGH OPENING
RWL	RAIN WATER LEADER
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
U/S	UNDERSIDE
W/C	WASHROOM

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
	MATERIAL TAG
	KEYNOTES REFER TO SHEET SPECIFIC KEYNOTE SCHEDULE
DRAWING TAGS	
	DETAIL NUMBER DRAWING SHEET NUMBER
	BUILDING SECTION NUMBER DRAWING SHEET NUMBER
	EXTERIOR ELEVATION NUMBER DRAWING SHEET NUMBER
	GRID BUBBLE
	ROOM NAME ROOM TAG
	CENTRELINE

1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:
COVER SHEET

AB Sixplex 01

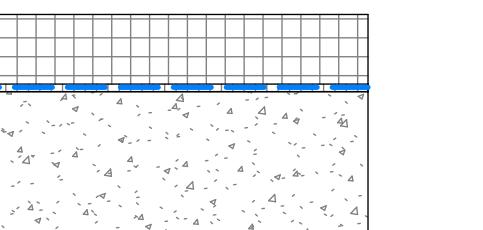
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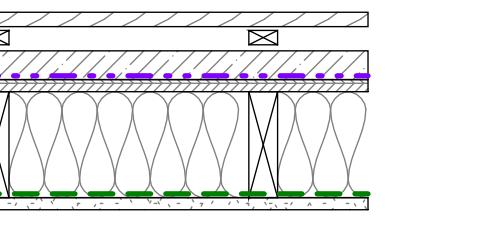
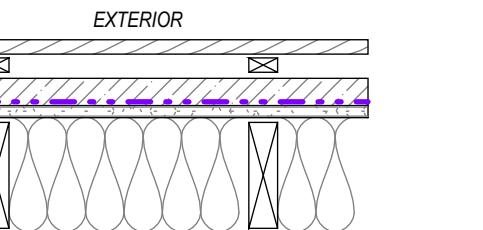
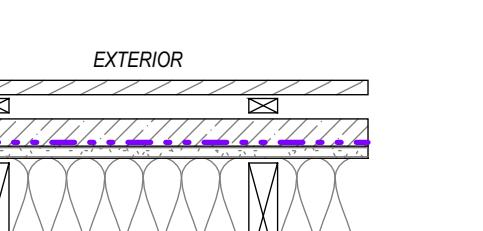
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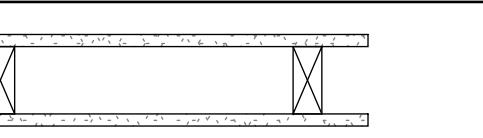
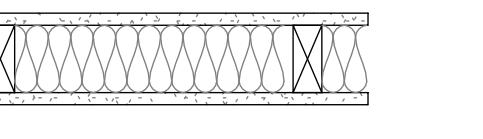
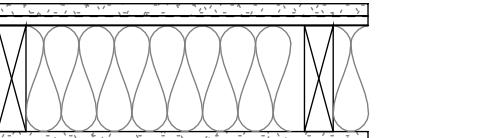
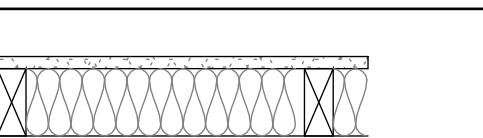
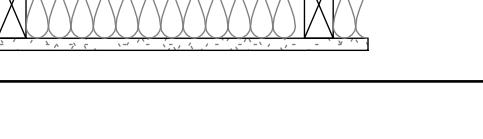
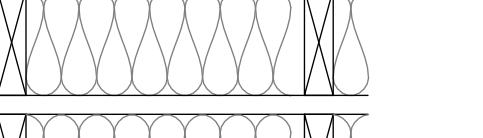
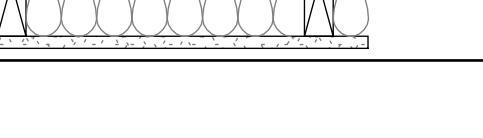
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DISCLAIMER

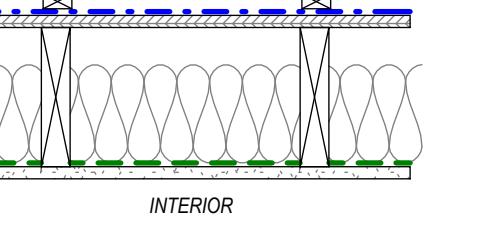
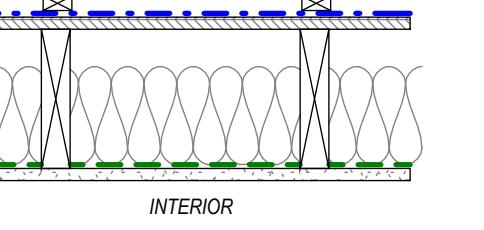
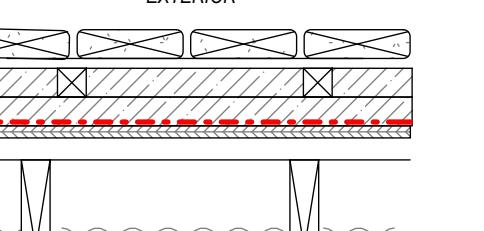
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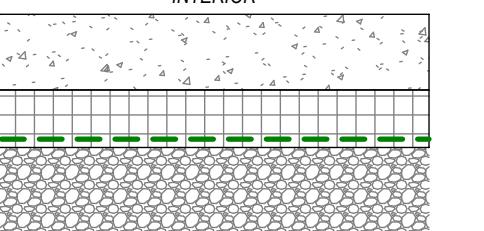
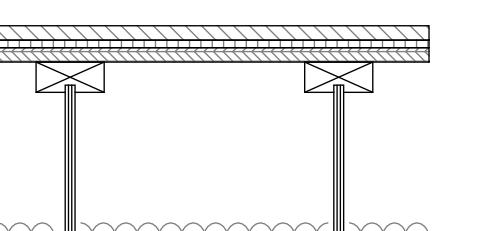
N - FOUNDATION WALL ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
N1		FOUNDATION /AR 4" (100mm) 16mm (100mm) /AR 1" (200mm) PARKING CEMENT COATING BEADING DRAINAGE AND PROTECTION BOARD FOUNDATION DAMP PROOFING GRADE BEAM (REFER TO STRUCTURAL) ENGINEERED FILL / INORGANIC NATIVE SOIL	R-VALUE MIN. R 18.32 / MIN RSI 3.22

W - EXTERIOR WALL ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
W1		EXTERIOR ENVELOPE WALL 18mm (3/4") 19mm (3/4") 25mm (1") VAR 16mm (5/8") 140mm (5 1/2") LIGHT-WEIGHT CLADDING PLACE HOLDER WOOD STRAPPING @ 400mm O/C (30mm WIDE MINIMUM) RIGID INSULATION AIR BARRIER, VAPOR PERMEABLE EXTERIOR GRADE PLYWOOD WOOD STUD FRAMING (REFER TO STRUCTURAL) C/W STUD CAVITY IN-FILL INSULATION VAPOR CONTROL BARRIER GYPSUM BOARD	R-VALUE MIN. R 34.64 / MIN RSI 6.1
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
W2		EXTERIOR ENVELOPE WALL - NON-COMBUSTIBLE 3/4" (19mm) 1/2" (13mm) 1" (25mm) VAR 58" (16mm) 5 1/2" (140mm) NON-COMBUSTIBLE LIGHT-WEIGHT CLADDING PLACE HOLDER VENTED CAVITY W/ METAL Z-GIRTS @ 400mm O/C RIGID INSULATION AIR BARRIER, VAPOR PERMEABLE NON-COMBUSTIBLE EXTERIOR SHEATHING METAL STUD FRAMING (REFER TO STRUCTURAL) C/W STUD CAVITY IN-FILL INSULATION VAPOR CONTROL BARRIER GYPSUM BOARD, TYPE X	R-VALUE MIN. R 34.64 / MIN RSI 6.1
			FRR 1HR
			FRR BASED ON EW2a AS PER NBC(AE) 9.10.3.1-A
W3		EXTERIOR ENVELOPE WALL - NON-COMBUSTIBLE 3/4" (19mm) 1/2" (13mm) 1" (25mm) VAR 58" (16mm) 5 1/2" (140mm) NON-COMBUSTIBLE LIGHT-WEIGHT CLADDING PLACE HOLDER VENTED CAVITY W/ METAL Z-GIRTS @ 400mm O/C RIGID INSULATION AIR BARRIER, VAPOR PERMEABLE NON-COMBUSTIBLE EXTERIOR SHEATHING METAL STUD FRAMING (REFER TO STRUCTURAL) C/W STUD CAVITY IN-FILL INSULATION VAPOR CONTROL BARRIER GYPSUM BOARD, TYPE X	R-VALUE MIN. R 34.64 / MIN RSI 6.1
			FRR 2HR
			FRR BASED ON EW3a AS PER NBC(AE) 9.36
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
			STUD CAVITY INSULATION AND RIGID INSULATION TO BE NON COMBUSTIBLE

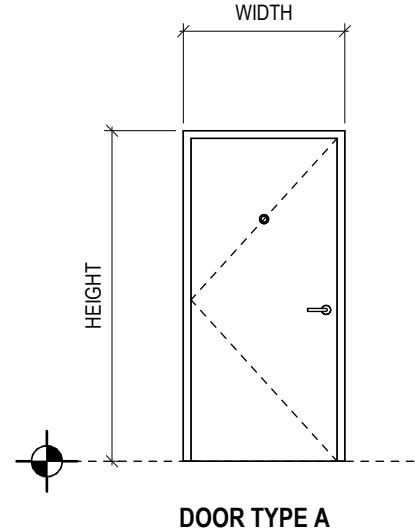
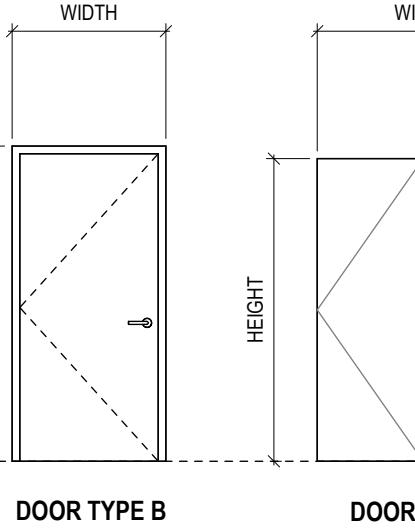
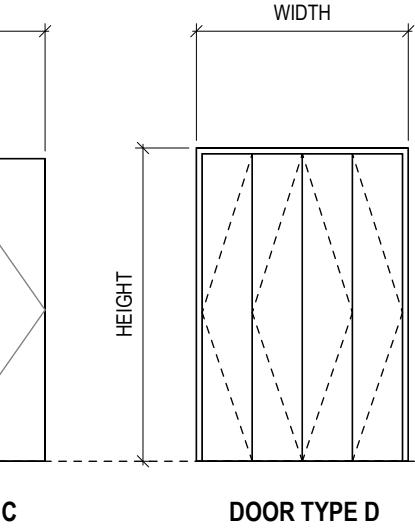
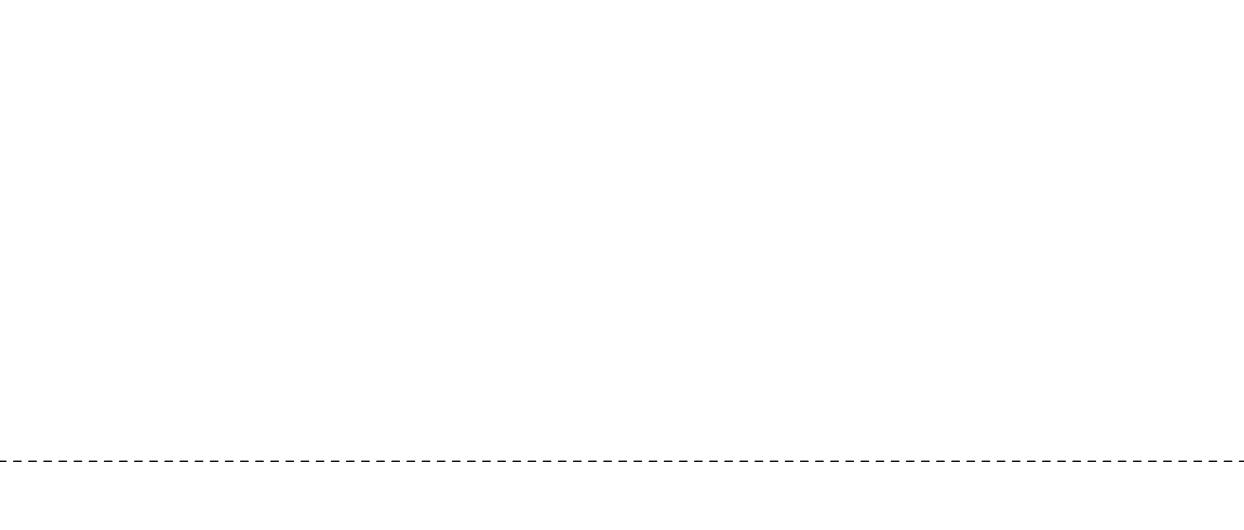
P - INTERIOR PARTITION ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
P1		2x4 INTERIOR PARTITION 58" (16mm) 3 1/2" (89mm) 58" (16mm) GYPSUM BOARD WOOD STUD FRAMING @ 406mm O/C GYPSUM BOARD	FRR N/A
P1a		2x4 INTERIOR PARTITION W/ BATTs 58" (16mm) 3 1/2" (89mm) 3 1/2" (89mm) GYPSUM BOARD WOOD STUD FRAMING @ 406mm O/C C/W ACOUSTIC BATT IN-FILL INSULATION 58" (16mm) GYPSUM BOARD	FRR N/A
P2		2x6 INTERIOR PARTITION - BETWEEN UNIT & STAIRS, RATED 58" (16mm) 12" (305mm) 5 1/2" (140mm) GYPSUM BOARD, TYPE X RESILIENT FURRING CHANNELS @ 406mm O/C WOOD STUD FRAMING @ 614mm O/C C/W ACOUSTIC BATT IN-FILL INSULATION 58" (16mm) GYPSUM BOARD, TYPE X	FRR 1HR
P3		2x4 DEMISING WALL - NON-LOAD BEARING, RATED 58" (16mm) 3 1/2" (89mm) GYPSUM BOARD, TYPE X WOOD STUD FRAMING @ 406mm O/C C/W ACOUSTIC BATT IN-FILL INSULATION 58" (16mm) GYPSUM BOARD, TYPE X	FRR 1HR
P3			STC N/A
P3			FRR BASED ON W1a AS PER NBC(AE) 9.10.3.1-A
P4		2x6 DEMISING WALL - LOAD BEARING, RATED 58" (16mm) 5 1/2" (140mm) GYPSUM BOARD, TYPE X WOOD STUD FRAMING (REFER TO STRUCTURAL) C/W ACOUSTIC BATT IN-FILL INSULATION 5 1/2" (140mm) GYPSUM BOARD, TYPE X	FRR 1HR
P4			STC 61
P4			FRR BASED ON W13a AS PER NBC(AE) 9.10.3.1-A
P4a		2x6 DEMISING WALL - LOAD BEARING, RATED 58" (16mm) 5 1/2" (140mm) GYPSUM BOARD, TYPE X WOOD STUD FRAMING (REFER TO STRUCTURAL) C/W ACOUSTIC BATT IN-FILL INSULATION 5 1/2" (140mm) GYPSUM BOARD, TYPE X	FRR 2HR
P4a			STC 61
P4a			FRR BASED ON W16b AS PER NBC(AE) 9.10.3.1-A
P5		PLUMBING CHASE 58" (16mm) 12" (305mm) 3 1/2" (89mm) GYPSUM BOARD PLYWOOD SHEATHING (REFER TO STRUCTURAL) WOOD STUD FRAMING @ 406mm O/C	FRR N/A
P5			STC N/A

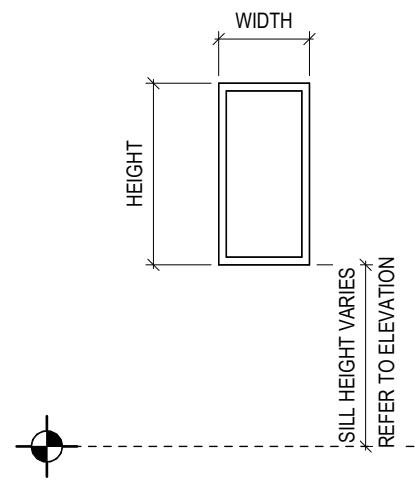
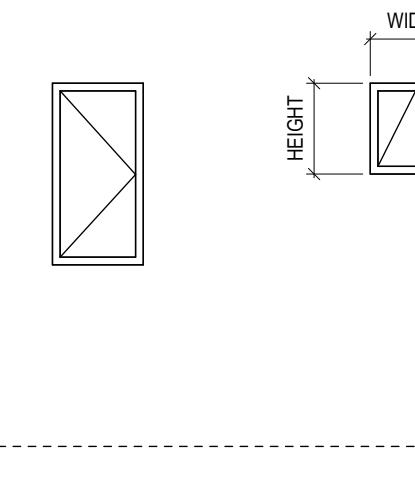
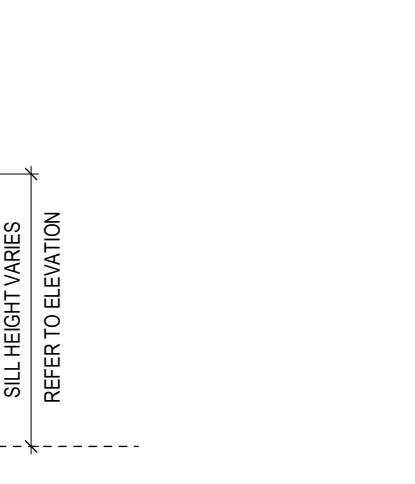
ASSEMBLY GENERAL NOTES			
1.	ALL LOAD BEARING WALLS SUPPORTING A RATED FLOOR ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING NOTLESS THAN THE SUPPORTED FLOOR ABOVE AS PER NBC(AE) 9.10.8.3.		
2.	16MM (5/8") GYPSUM BOARD, TYPE X TO BE USED ON LOAD BEARING WALLS (SEE STRUCTURAL) TO PROVIDE FRR.		
3.	ALL WALL AND FLOOR ASSEMBLIES REQUIRED TO BE A FIRE SEPARATION SHALL BE CONSTRUCTED AS A CONTINUOUS BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE AS PER NBC(AE) 9.10.9.2.		
4.	ALL PENETRATIONS THROUGH A REQUIRED FIRE SEPARATION TO MEET REQUIREMENTS OF NBC(AE) 9.10.9.6.		
5.	ALL PIPING PENETRATIONS THROUGH A REQUIRED FIRE SEPARATION AS A MEMBRANE THAT FORMS PART OF A RATED ASSEMBLY TO CONFORM TO NBC(AE) 9.10.9.7.		
6.	ALL OPENINGS FOR ELECTRICAL OR SIMILAR OUTLET BOXES IN RATED ASSEMBLIES TO CONFORM TO NBC(AE) 9.10.9.8.		
7.	RECESSED LIGHTING FIXTURES SHALL NOT BE LOCATED IN INSULATED CEILINGS UNLESS THE FIXTURES ARE DESIGNED FOR SUCH INSTALLATIONS AS PER NBC(AE) 9.34.1.4.		
8.	STRUCTURAL SLAB: EFFECTIVE THERMAL RESISTANCE OF AN UNHEATED FLOOR ABOVE FROSTLINE IN CONTACT WITH GROUND AS PER NBC FOR CLIMATE ZONE 7A: MINIMUM EFFECTIVE THERMAL RESISTANCE RSI 1.8. REFER TO NBC(AE) 9.36.		
9.	WALLS: EFFECTIVE THERMAL RESISTANCE OF ABOVE-GROUND OPAQUE ASSEMBLIES WITH HRV IN CLIMATE ZONE 7A: RSI 6.1. REFER TO NBC(AE) 9.36.		
10.	ROOFS: EFFECTIVE THERMAL RESISTANCE OF ABOVE-GROUND OPAQUE ASSEMBLIES WITH A HRV IN CLIMATE ZONE 7A: RSI 6.5. REFER TO NBC(AE) 9.36.		
11.	FOAMED PLASTICS TO BE THERMALLY PROTECTED AS PER NBC(AE) 9.10.17.10.		
12.	ROOFING MATERIAL AND INSULATION AS PER NBC(AE) 9.26.2.		
13.	VAPOUR BARRIER AS PER NBC(AE) 9.25.2.1.		
14.	INSULATION AS PER NBC(AE) 9.25.2.1.		
15.	CLADDING AS PER NBC(AE) 9.25.4.		
16.	WHERE CLOSED CELL SPRAY INSULATION ACTS AS VAPOUR CONTROL, ENSURE SUFFICIENT QUANTITY TO MEET NBC(AE) 9.25.4.2.(8).		

R - ROOF ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
R1		EXTERIOR 5/8" (16mm) 3/4" (19mm) VAR 5/8" (16mm) INTERIOR 5 1/2" (140mm) VAR 5/8" (16mm)	R-VALUE MIN. R 36.91 / MIN RSI 6.5
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
R2		EXTERIOR 5/8" (16mm) 3/4" (19mm) VAR 5/8" (16mm) INTERIOR 5 1/2" (140mm) VAR 5/8" (16mm)	R-VALUE MIN. R 36.91 / MIN RSI 6.5
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
R3		EXTERIOR 1 1/2" (38mm) 1 1/2" (38mm) INTERIOR 1 1/2" (38mm) 1 1/2" (38mm) VAR	R-VALUE MIN. R 36.91 / MIN RSI 6.5
			FRR 1HR AS PER NBC(AE) 9.10.3.1.1
			FRR BASED ON F4b AS PER NBC(AE) 9.10.3.1-B
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
			STUD CAVITY INSULATION AND RIGID INSULATION TO BE NON COMBUSTIBLE

F - FLOOR ASSEMBLIES			
TYPE	DIAGRAM	DESCRIPTION	PERFORMANCE
F1		SLAB ON GRADE /AR INTERIOR 3" (76mm) VAR 8" (200mm)	R-VALUE MIN. R 13.82 / MIN RSI 2.43
			INSULATION R/RSI VALUES TO BE SPECIFIED PER PROJECT LOCATION AS PER NBC(AE) 9.36
F2		WOOD FRAMED FLOOR, RATED 3/4" (19mm) 3/8" (10mm) 3/4" (19mm) VAR 5/8" (16mm) INTERIOR FLOOR FINISH RUBBER UNDERLAY T&G PLYWOOD SUBFLOOR, SCREWED & GLUED ENGINEERED WOOD JOIST OR I-JOIST (REFER TO STRUCTURAL) A	

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DOOR TYPES			
	DOOR TYPE A EXTERIOR SOLID PANEL WITH DOOR VIEWER		DOOR TYPE B INTERIOR SOLID PANEL
	DOOR TYPE C INTERIOR DOUBLE SOLID PANEL		DOOR TYPE D INTERIOR 4 PANEL FOLDING CLOSET DOOR

WINDOW TYPES			
	WINDOW TYPE A FIXED		WINDOW TYPE B CASEMENT
	WINDOW TYPE C AWNING		

DOOR, WINDOW & SKYLIGHT GENERAL NOTES						
1. WINDOWS AND DOORS TO CONFORM TO REQUIREMENTS OF NBC(AE) 9.7.3 AND NBC(AE) 9.7.4						
2. MAXIMUM U-VALUE FOR WINDOWS TO CONFORM TO ABC TABLE NBC(AE) 9.7.3 AND NBC(AE) 9.36.2.7-A						
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 NBC(AE) 9.8.8.1.5.						
4. ALL GLASS TO MEET MATERIAL STANDARDS PER NBC(AE) 9.6.1.2						
5. ALL SIDELIGHTS OR GLAZING AT INDOOR/ENTRIES TO DWELLING UNITS TO BE TEMPERED OR LAMINATED PER NBC(AE) 9.6.1.4						
6. MINIMUM REQUIRED THERMAL CHARACTERISTIC OF FENESTRATION AND DOORS HAS BEEN SHOWN AS CLIMATE ZONE 7A: MAX. U-VALUE 2.0. PROFESSIONAL DESIGNER TO REVISE AS REQUIRED FOR SITE CONDITION. MIN.						
7. ALL PRINCIPAL ENTRANCE DOORS, EXIT DOORS OR DOORS TO SUITES INCLUDING EXTERIOR DOORS TO DWELLING UNITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT KEYS AND DOOR RELEASE HARDWARE; SHALL BE GRASPABLE WITH ONE HAND; AND INSTALLED AT 900mm ABOVE FINISHED FLOOR PER NBC(AE) 9.9.6.7.						
8. ALL EXTERIOR DOORS TO HAVE INSULATED CORE & INSTALLED WITH WEATHERSTRIPPING.						
9. EACH BEDROOM TO HAVE AT LEAST ONE WINDOW OR EXTERIOR DOOR IN COMPLIANCE WITH NBC(AE) 9.9.10.1. FOR EGRESS WINDOWS OR DOORS FOR BEDROOMS.						
10. DOORS, DAMPERS, AND OTHER CLOSURES IN FIRE SEPARATIONS TO BE INSTALLED AS PER NBC(AE) 9.10.13.						
11. DOOR STOP REQUIRED AS PER NBC(AE) 9.10.13.16.						
12. FLAME-SPREAD RATING OF ALL WINDOWS TO CONFORM TO NBC(AE) 9.10.17.1						
13. REFER TO NBC(AE) 9.7.2.2 FOR ADDITIONAL REQUIREMENTS FOR WINDOWS & DOORS.						
14. ALL GLAZING SHOWN AS TRIPLE						

DOOR SCHEDULE							
TAG	TYPE	METRIC SIZE (mm)		IMPERIAL SIZE (FT-IN")		FIRE RATING	COMMENTS
		WIDTH	HEIGHT	WIDTH	HEIGHT		
DA01	DOOR TYPE A	965	2349	3'-2"	7'-8 1/2"	N/A	DOOR VIEWER AS PER NBC(AE) 9.7.2.1
DA02	DOOR TYPE A	965	2349	3'-2"	7'-8 1/2"	3/4HR	DOOR VIEWER AS PER NBC(AE) 9.7.2.1 RATING AS PER NBC(AE) 9.10.13.2.
DB01	DOOR TYPE B	914	2032	3'-0"	6'-8"	N/A	
DB02	DOOR TYPE B	813	2032	2'-8"	6'-8"	N/A	
DB03	DOOR TYPE B	711	2032	2'-4"	6'-8"	N/A	
DD01	DOOR TYPE D	1000	2032	3'-3 3/8"	6'-8"	N/A	
DD02	DOOR TYPE D	1400	2032	4'-7 1/8"	6'-8"	N/A	
DD03	DOOR TYPE D	1600	2032	5'-3"	6'-8"	N/A	
DD04	DOOR TYPE D	2000	2032	6'-6 3/4"	6'-8"	N/A	
DD05	DOOR TYPE D	1800	2032	5'-10 7/8"	6'-8"	N/A	

WINDOW SCHEDULE						
TAG	TYPE	METRIC SIZE (mm)		IMPERIAL SIZE (ft-in")		COMMENTS
		WIDTH	HEIGHT	WIDTH	HEIGHT	
WA01	WINDOW TYPE A	600	600	1'-11 5/8"	1'-11 5/8"	
WA03	WINDOW TYPE A	1200	2000	3'-11 1/4"	6'-6 3/4"	
WB01	WINDOW TYPE B	600	600	1'-11 5/8"	1'-11 5/8"	
WB02	WINDOW TYPE B	600	1200	1'-11 5/8"	3'-11 1/4"	EGRESS CLEARANCES AS PER NBC(AE) 9.9.10
WB03	WINDOW TYPE B	600	2000	1'-11 5/8"	6'-6 3/4"	
WC01	WINDOW TYPE C	600	1400	1'-11 5/8"	4'-7 1/8"	
WC02	WINDOW TYPE C	1200	1400	3'-11 1/4"	4'-7 1/8"	
WC03	WINDOW TYPE C	600	2000	1'-11 5/8"	6'-6 3/4"	
WC04	WINDOW TYPE C	600	500	1'-11 5/8"	1'-7 11/16"	
WC05	WINDOW TYPE B	600	1500	1'-11 5/8"	4'-11 1/16"	

1	2025-02-21	Issued as Prototypical Drawing					
NO.	DATE	DESCRIPTION					

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:
OPENINGS SCHEDULE

AB Sixplex 01

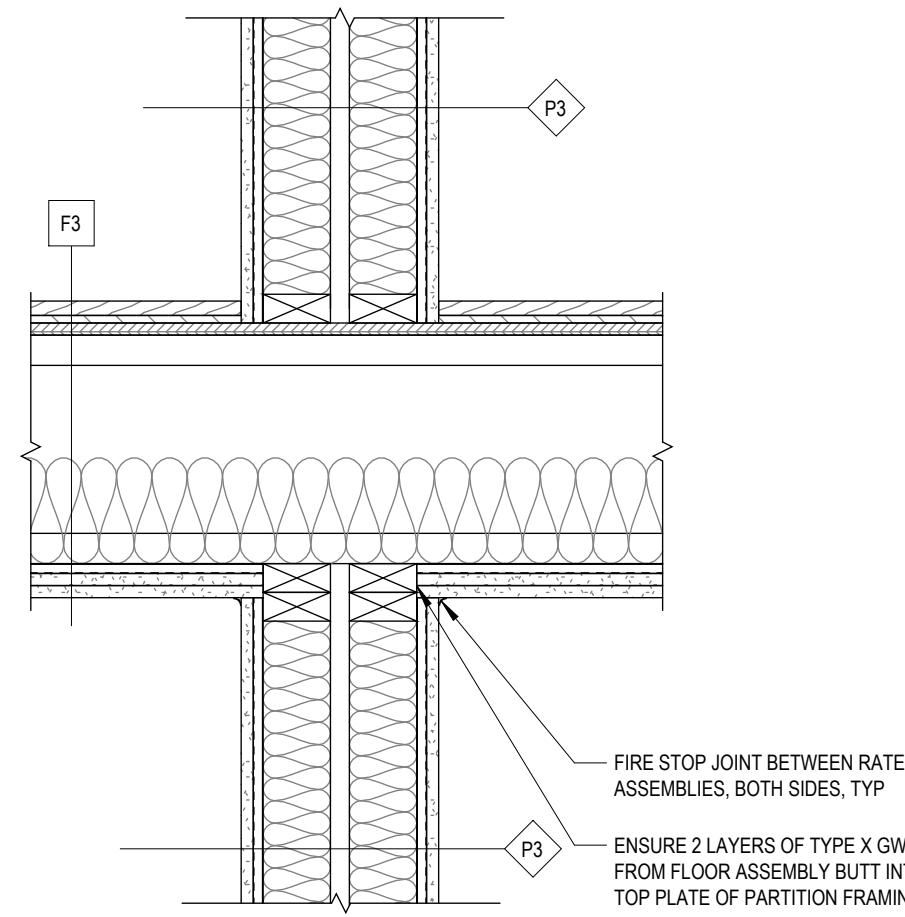
PROJECT NO: 241058
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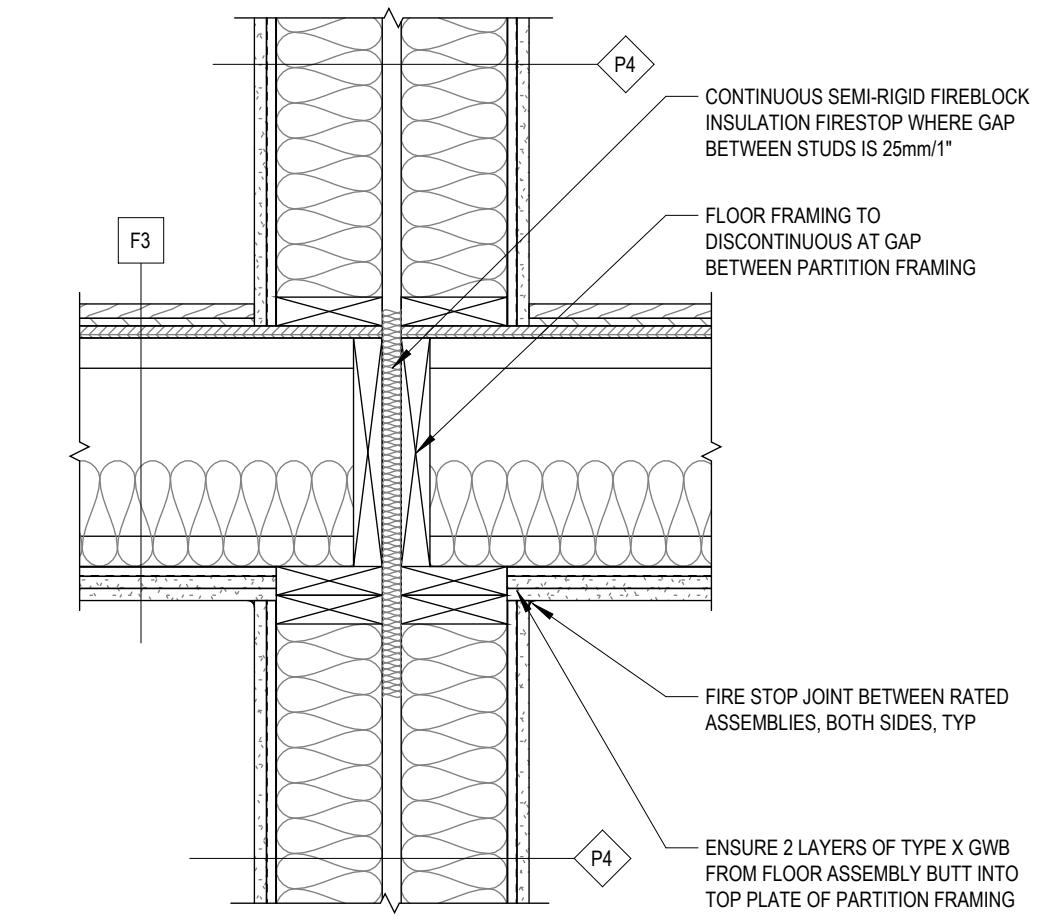
A004

DISCLAIMER

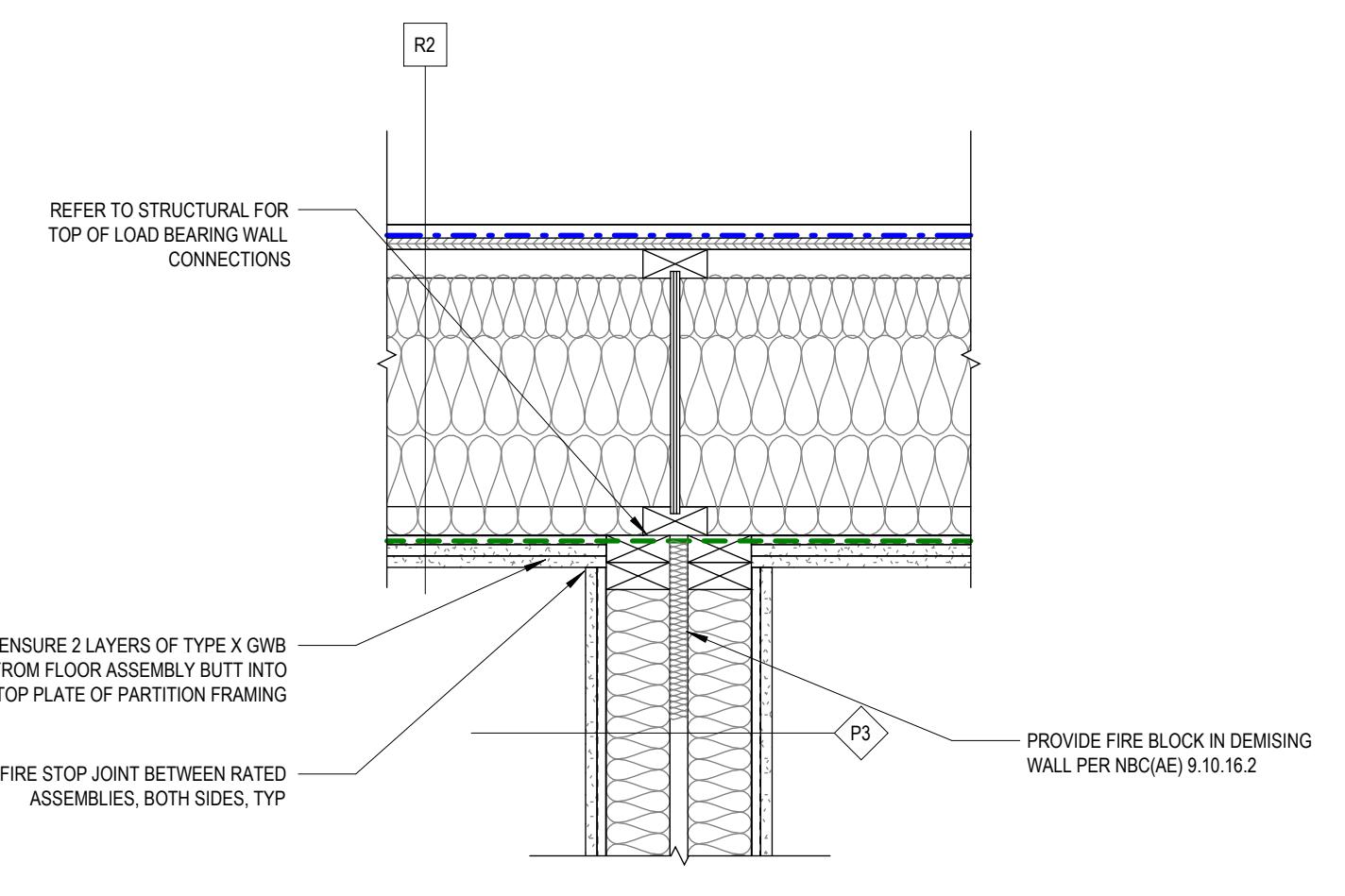
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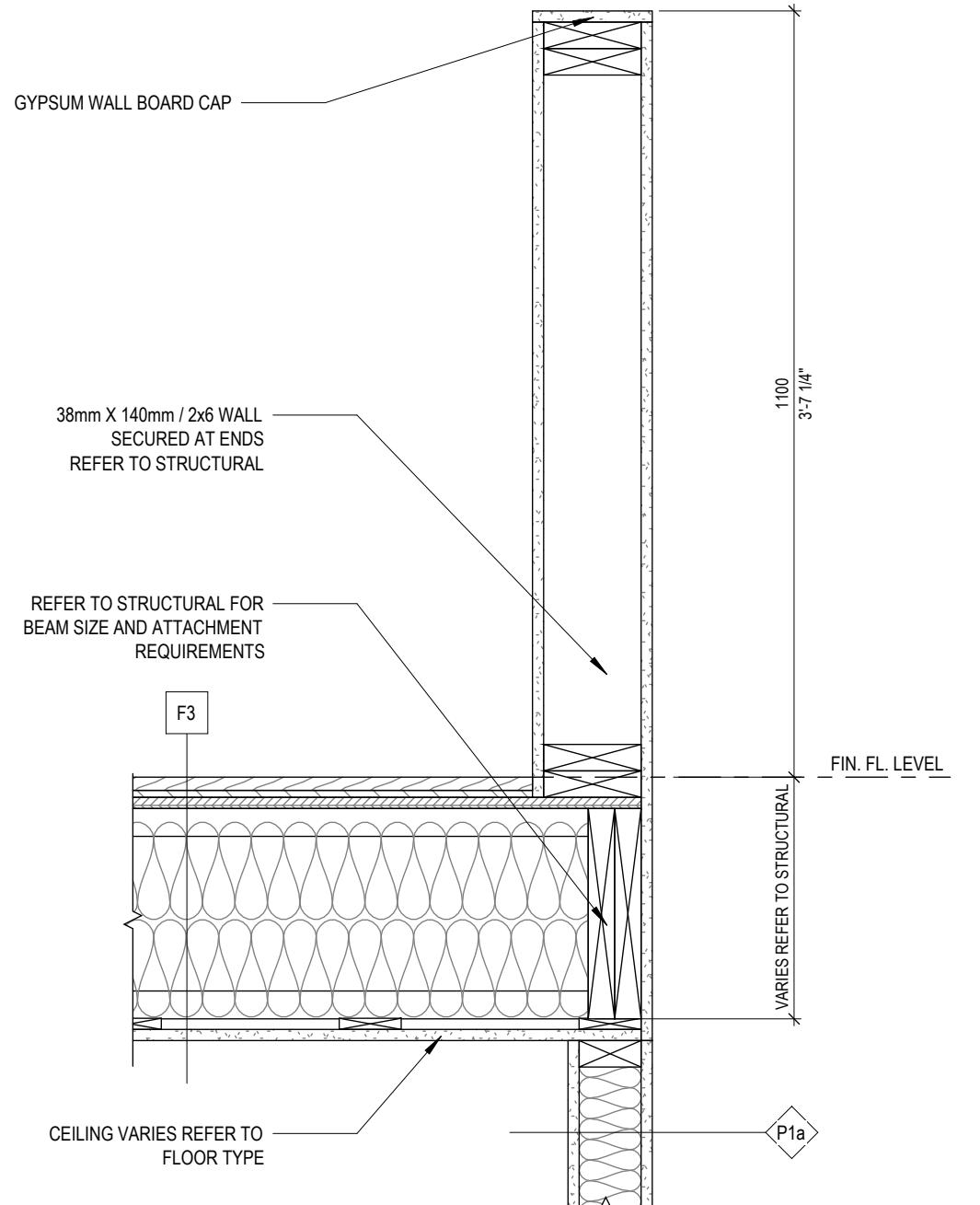
1 SECTION - FIRE SEPARATION, NON-LOAD BEARING WALL TO FLOOR
A005 1 : 10



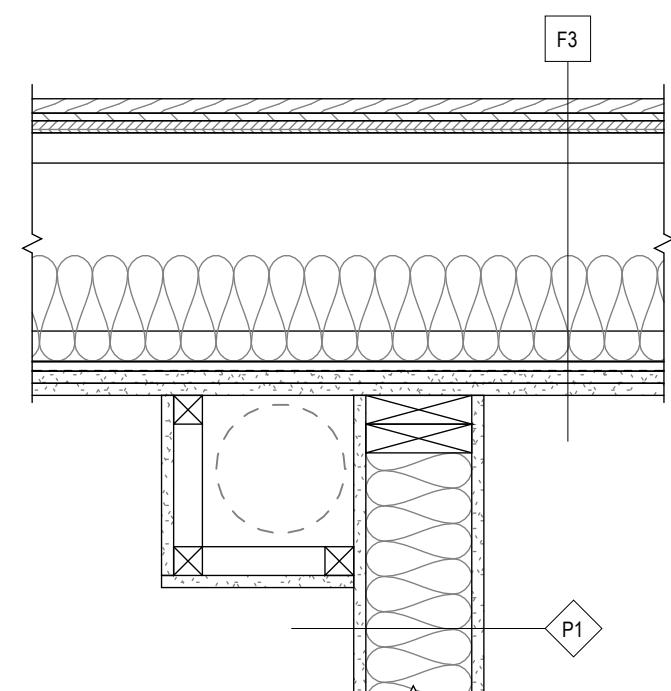
2 SECTION - FIRE SEPARATION, LOAD BEARING WALL TO FLOOR
A005 1 : 10



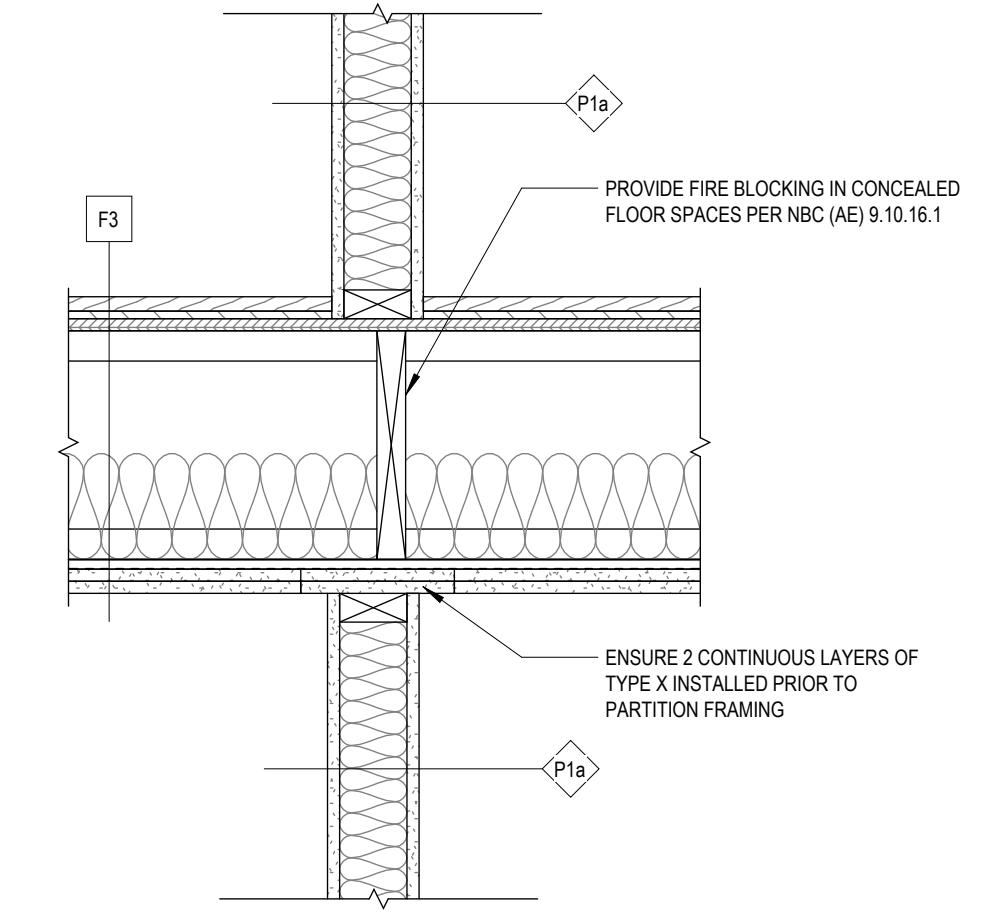
3 SECTION - FIRE SEPARATION, LOAD BEARING WALL TO RATED ROOF
A005 1 : 10



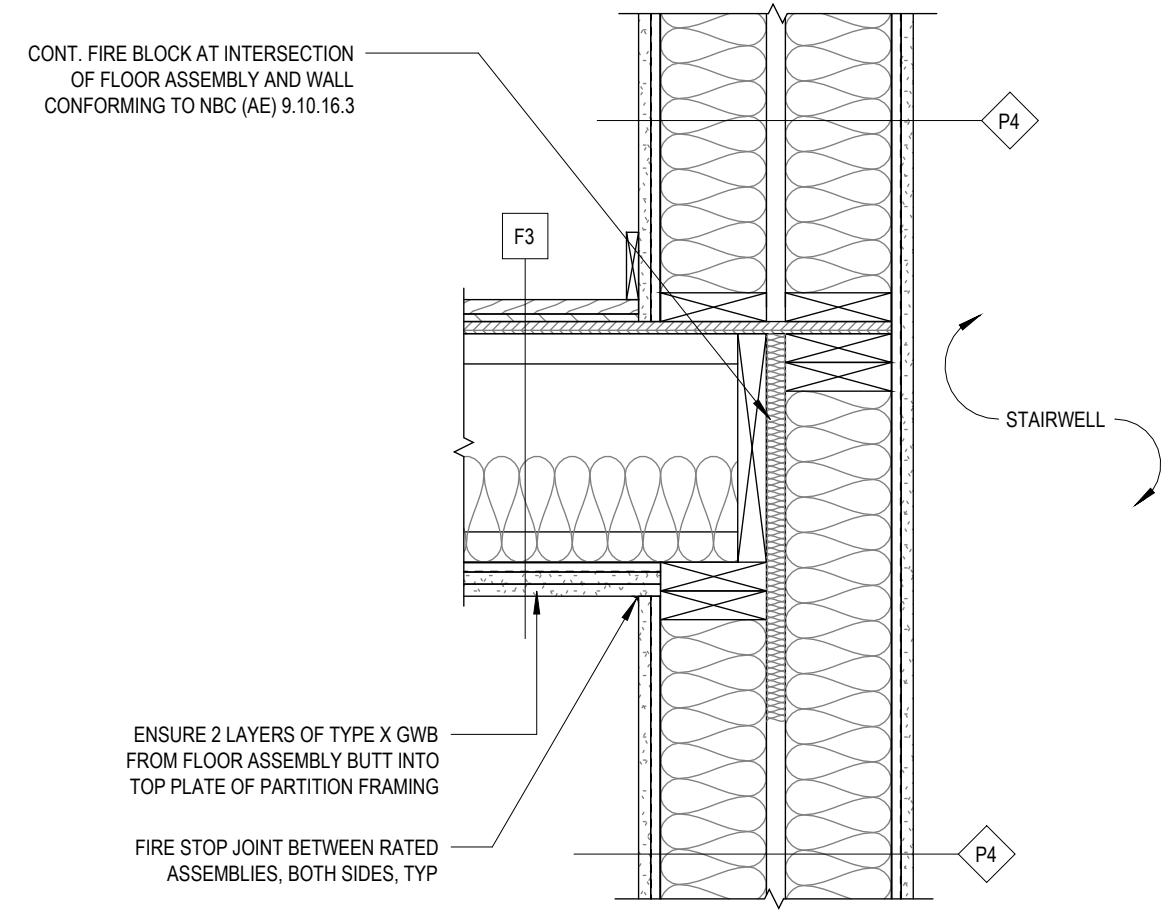
4 SECTION - TYP. INTERIOR GUARD
A005 1 : 10



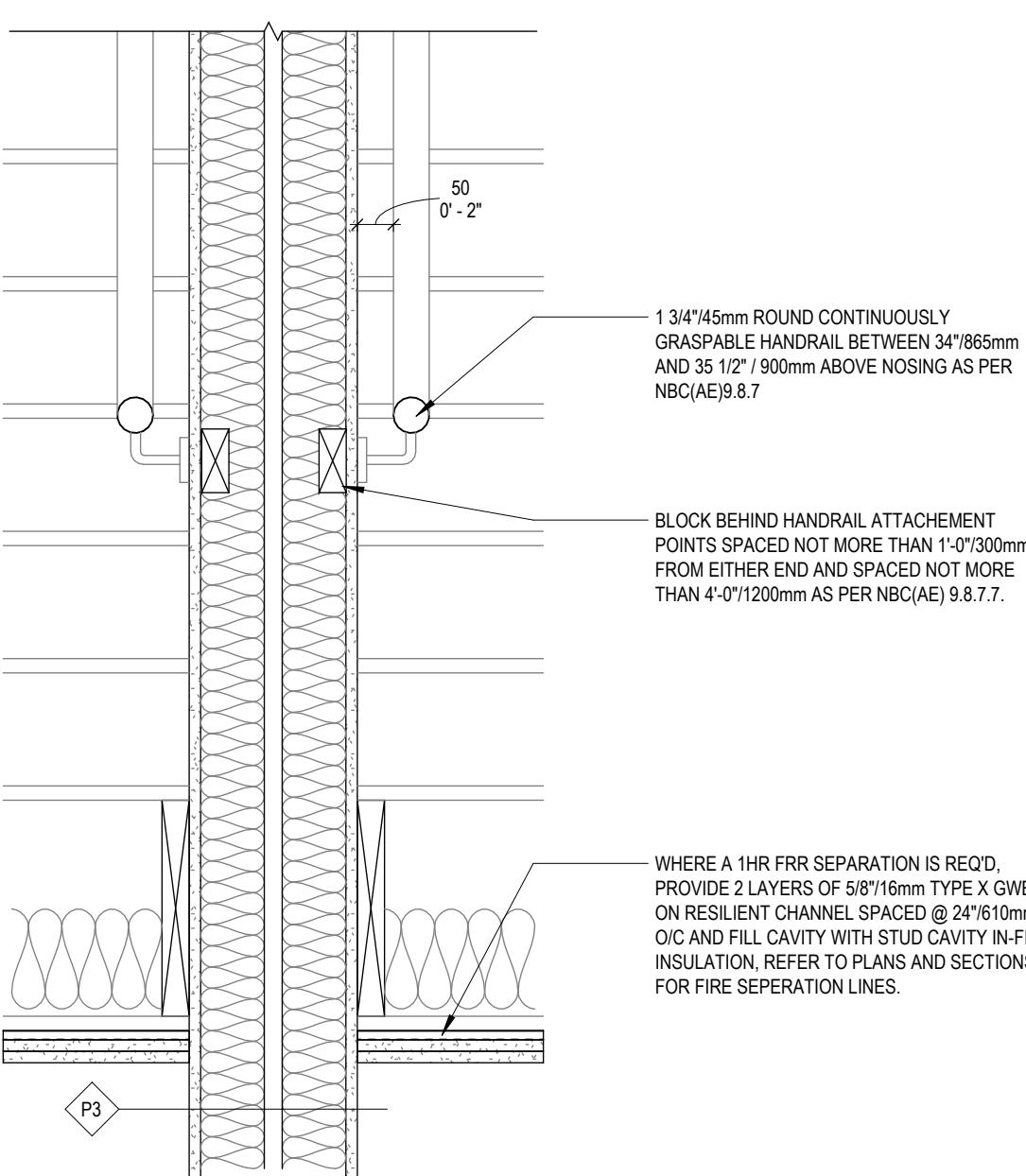
5 SECTION - FIRE SEPARATION, PARTITION & BULKHEAD TO FLOOR
A005 1 : 10



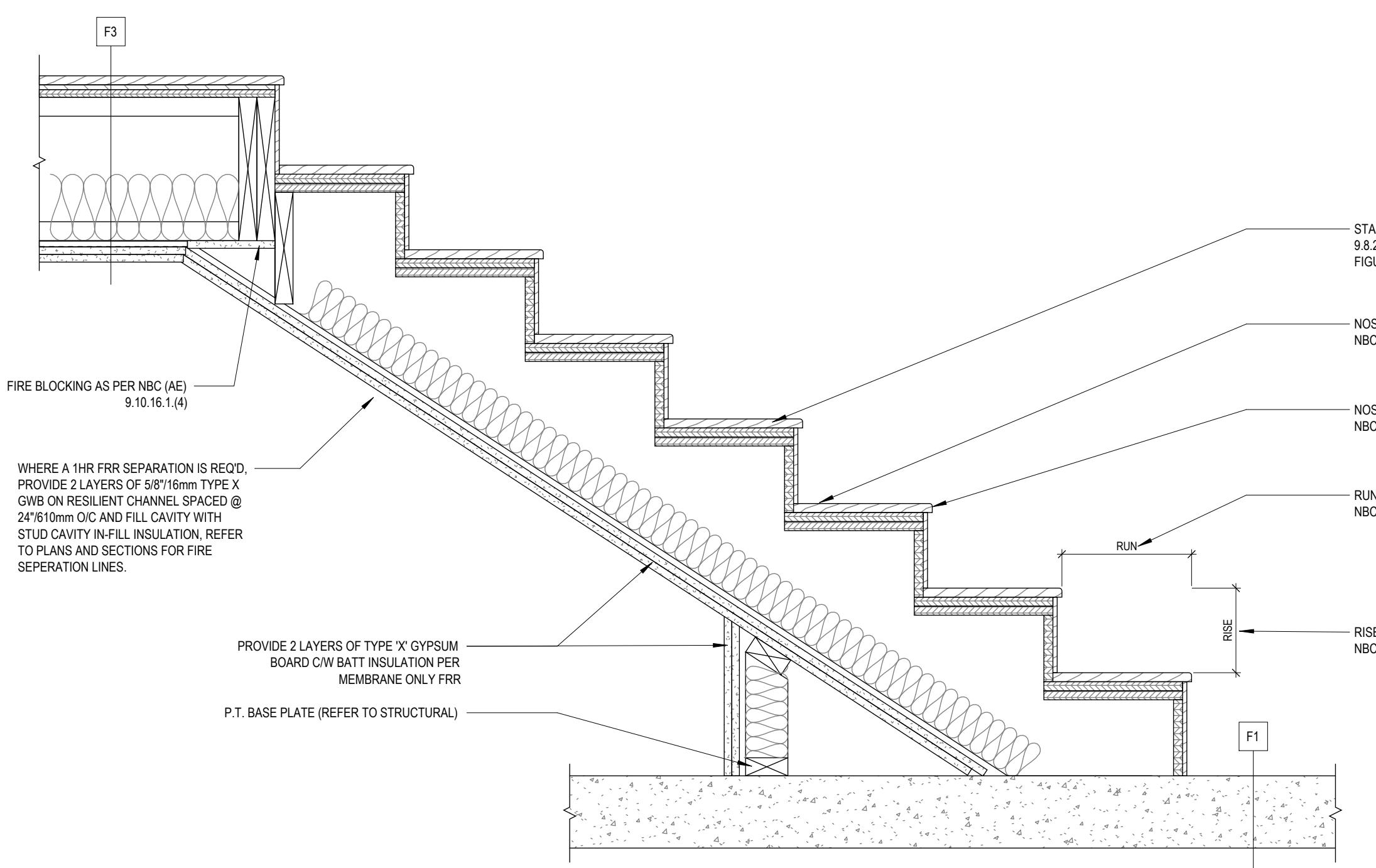
6 SECTION - FIRE SEPARATION, RATED FLOOR, NON-LOAD BEARING PARTITION
A005 1 : 10



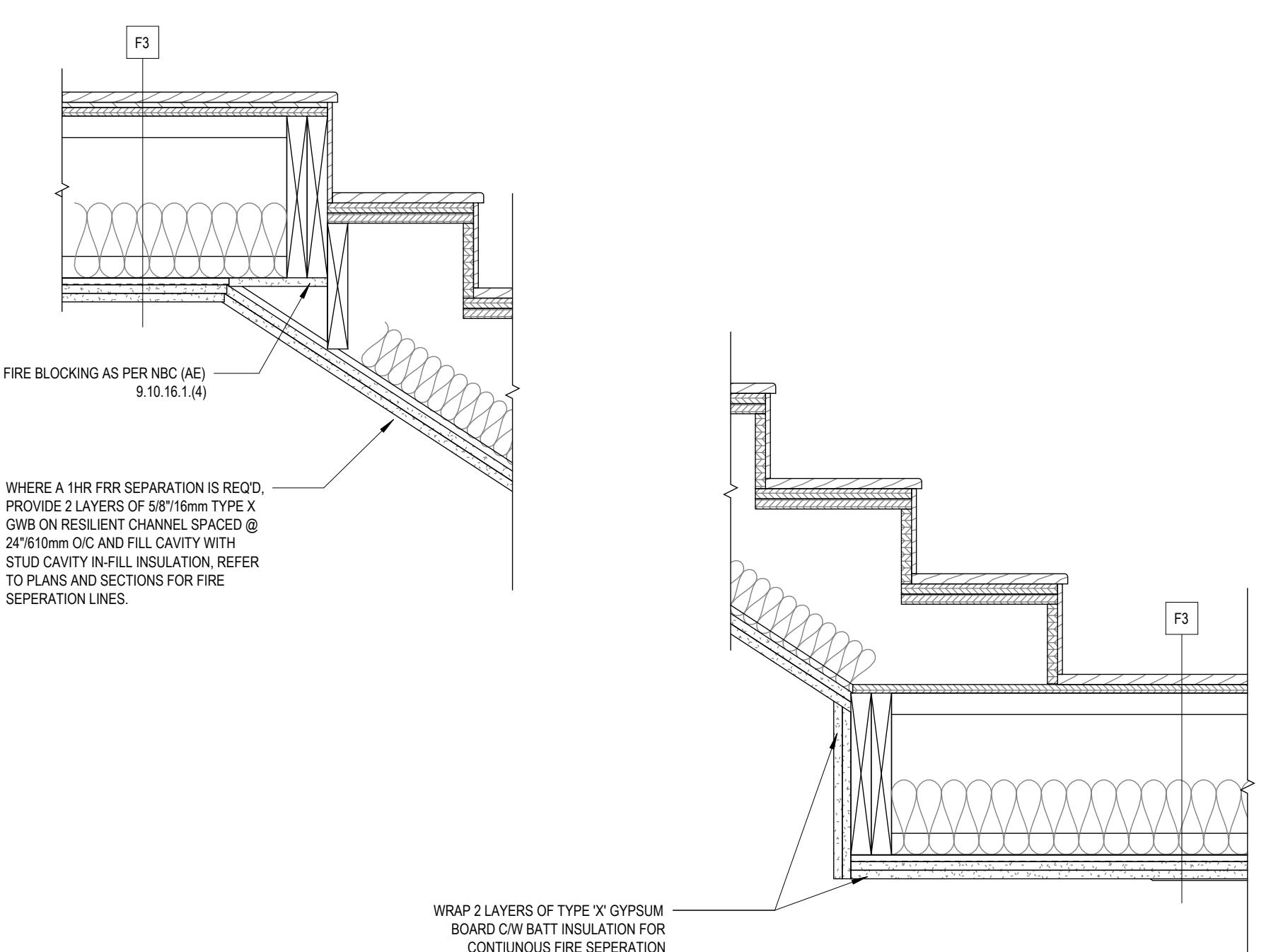
7 SECTION - FIRE SEPARATION, LOAD BEARING WALL TO FLOOR @ STAIRWELL
A005 1 : 10



8 SECTION - FIRE SEPARATION, STAIR 02
A005 1 : 10



9 SECTION - FIRE SEPARATION, STAIR
A005 1 : 10



10 SECTION - FIRE SEPARATION, UPPER STAIRS
A005 1 : 10

1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

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SHEET TITLE:
FIRE RATING DETAILS

AB Sixplex 01

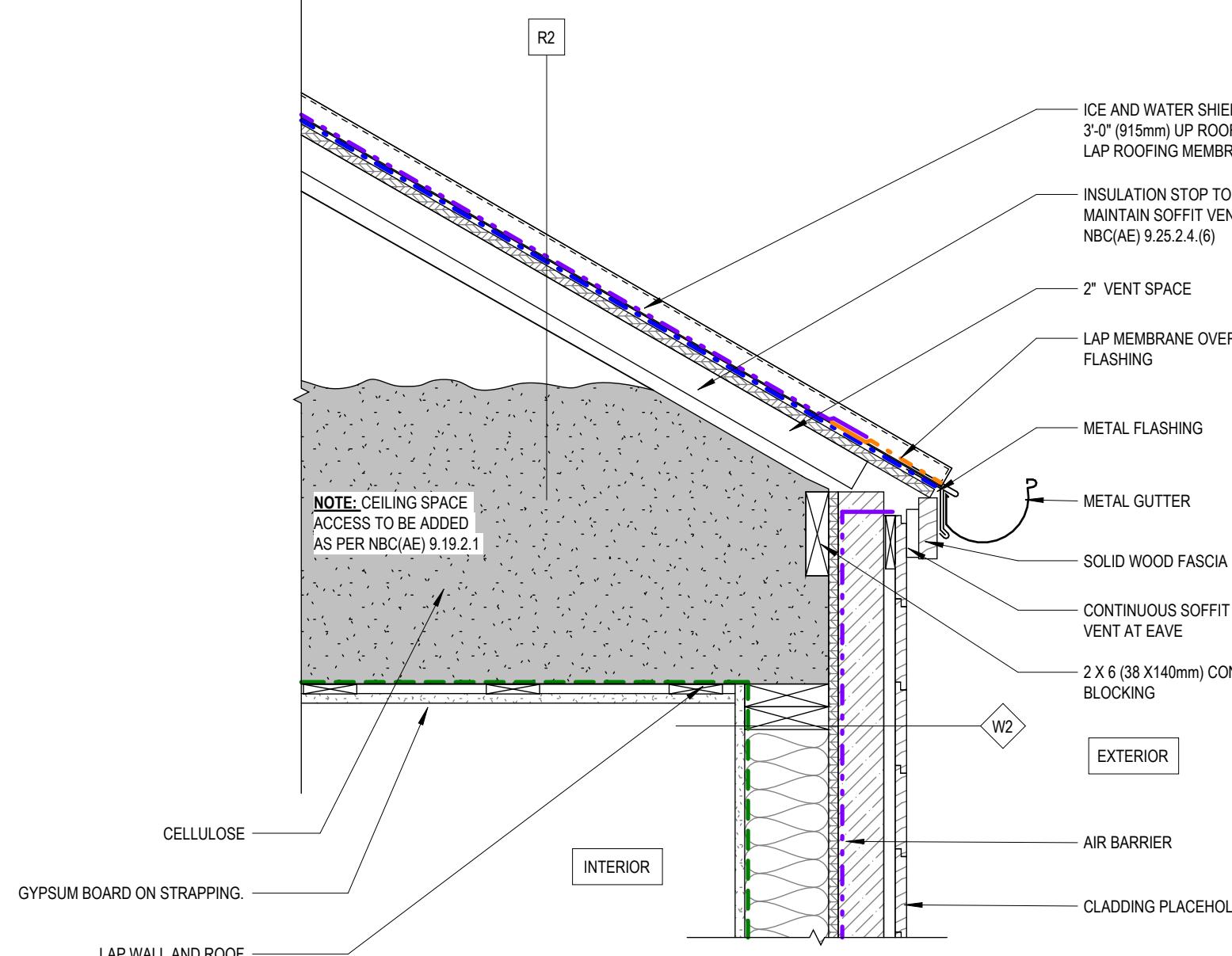
PROJECT NO: 241058
SCALE: 1:10

SHEET NO:

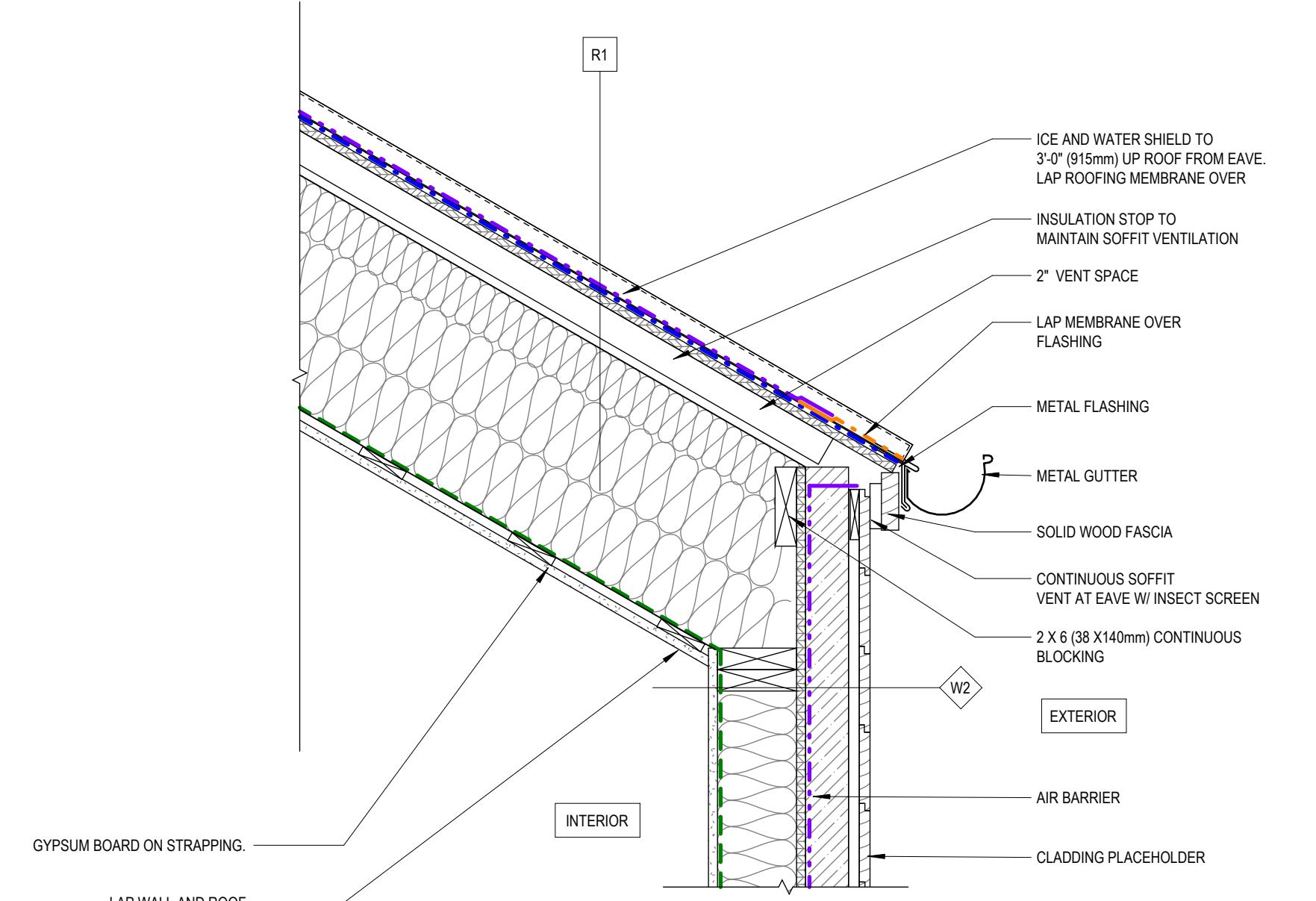
A005

DISCLAIMER

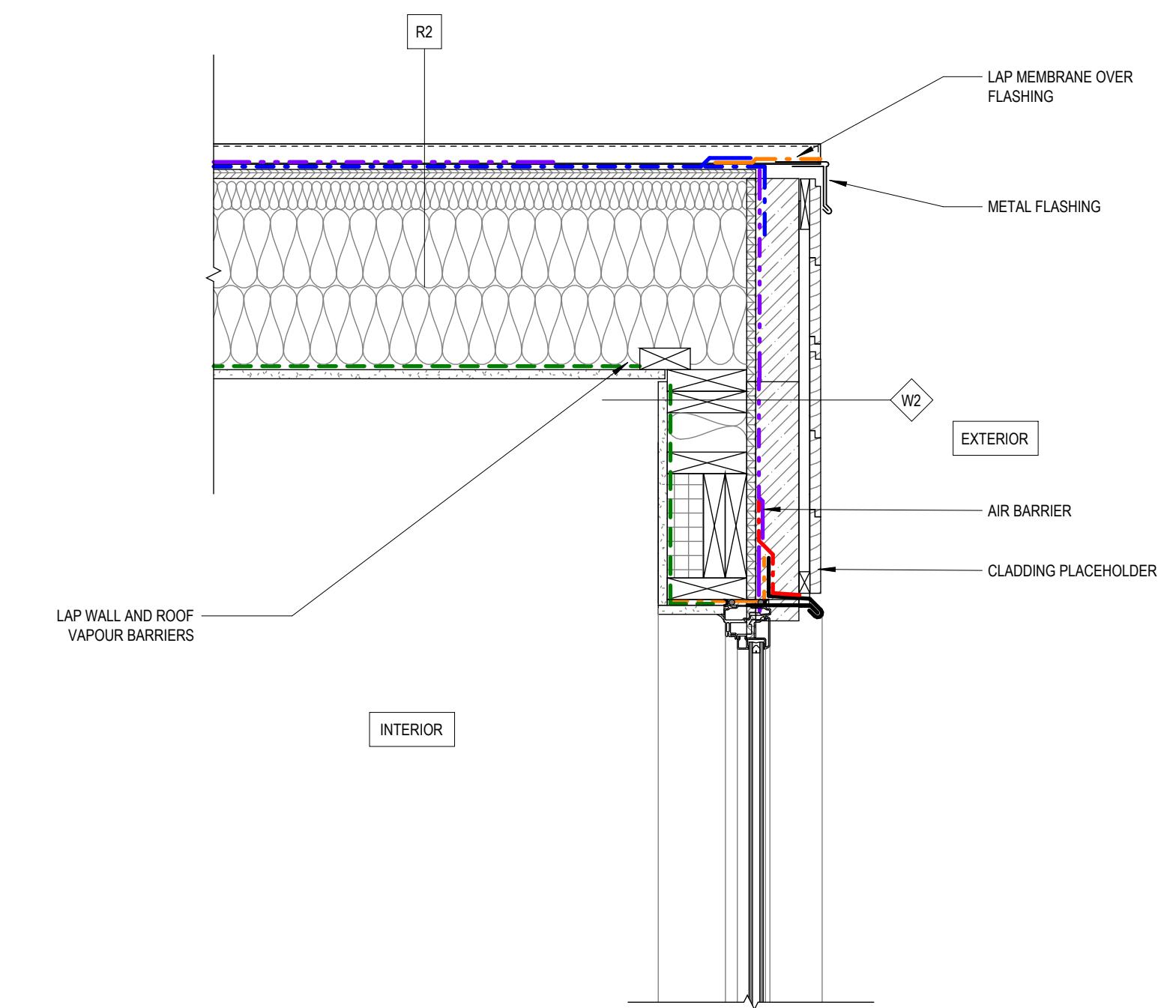
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SECTION DETAIL - TYP. R2 EAVE W/ GUTTER



SECTION DETAIL - R2 TYP. EAVE W/ GUTTER



SECTION DETAIL - ROOF RIDGE

MEMBRANE LEGEND

The diagram illustrates seven types of waterproofing membranes, each represented by a horizontal dashed line of a specific color and pattern, followed by the membrane's name in capital letters.

- AIR BARRIER, VAPOUR PERMEABLE (purple dashed line)
- AIR BARRIER, NON-VAPOUR PERMEABLE (blue dashed line)
- TRANSITION MEMBRANE (orange dashed line)
- THROUGH-WALL FLASHING (red dashed line)
- VAPOUR CONTROL BARRIER (green dashed line)
- FOUNDATION DAMP PROOFING (blue dashed line)

INSULATION LEGEND

	MINERAL WOOL, SEMI-RIGID
	EXTRUDED POLYSTYRENE
	EXPANDED POLYISOCYANURATE
	SPRAY FOAM
	MINERAL WOOL, BATT

1 2025-02-21 Issued as Prototypical Drawing

NO.	DATE	DESCRIPTION
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PROJECT: CMHC HOUSING DESIGN CATALOGUE

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SHEET TITLE:

AB Sixplex 01

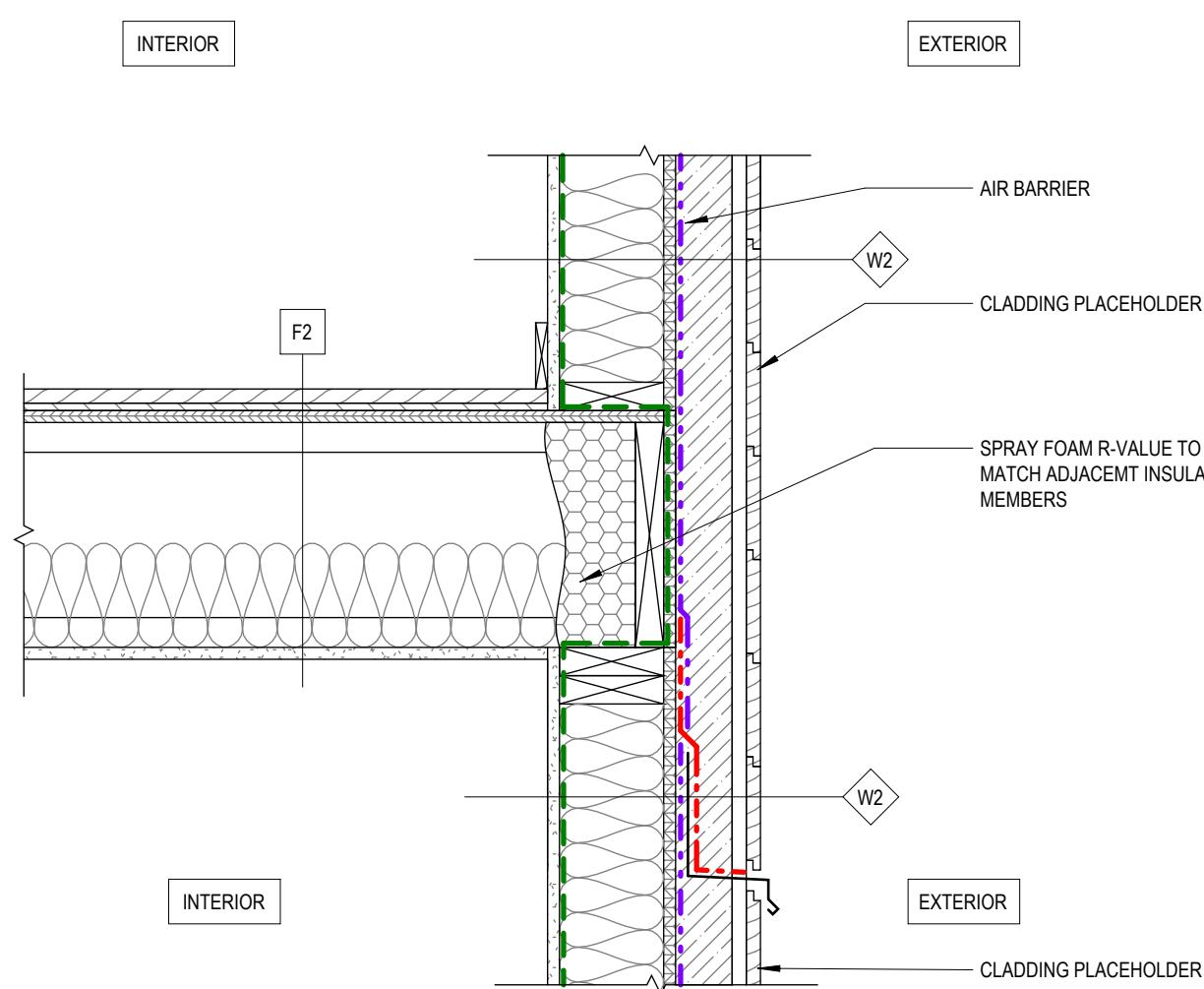
PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

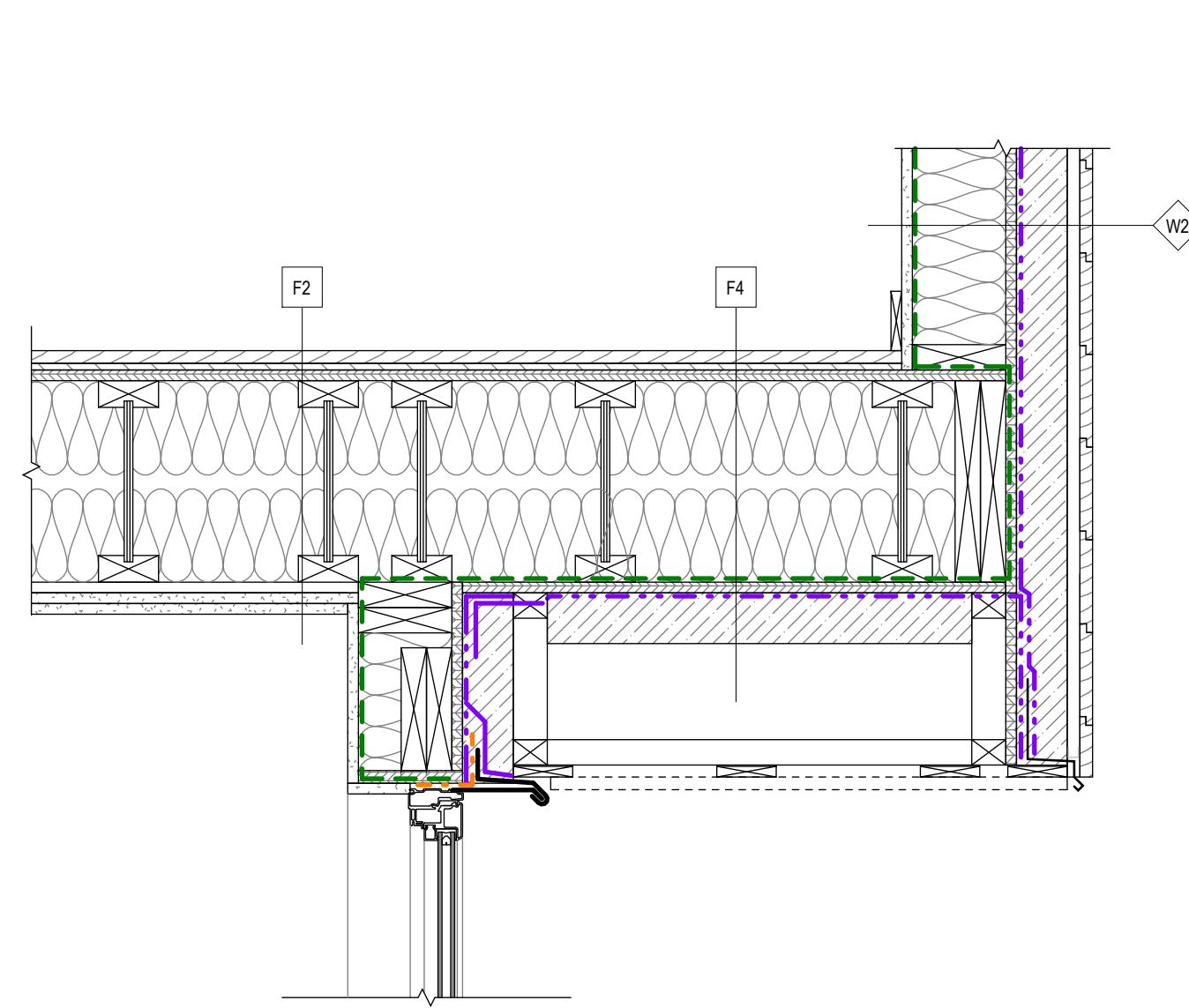
A006

DISCLAIMER

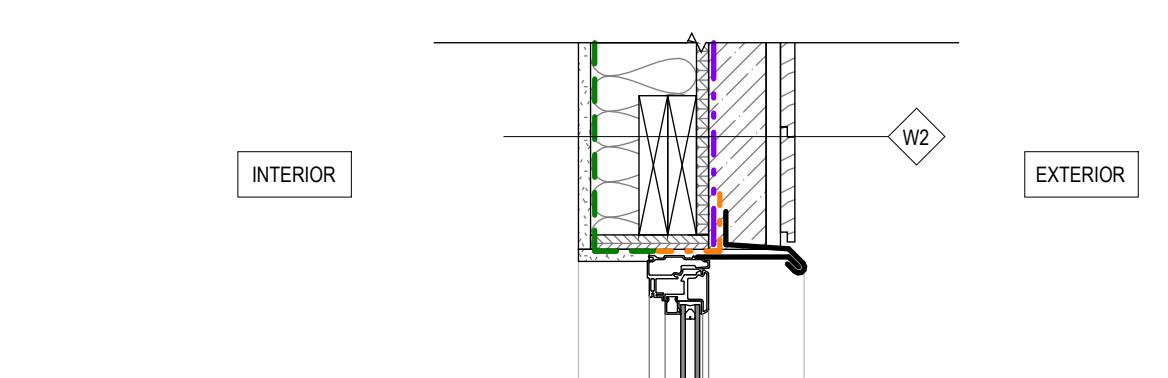
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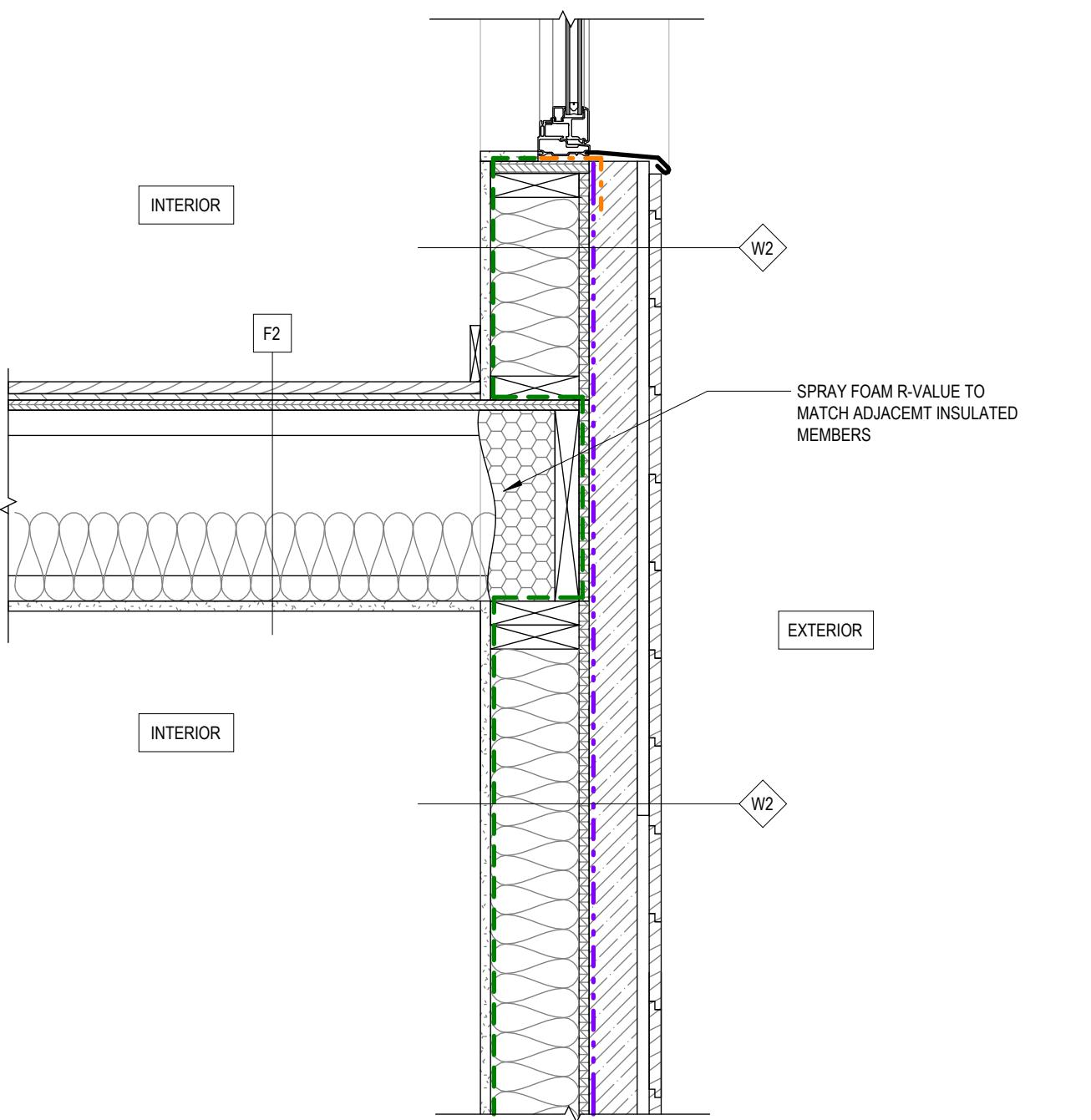
1 SECTION - TYP. THRU WALL FLASHING AT FLOOR
A007 1 : 10



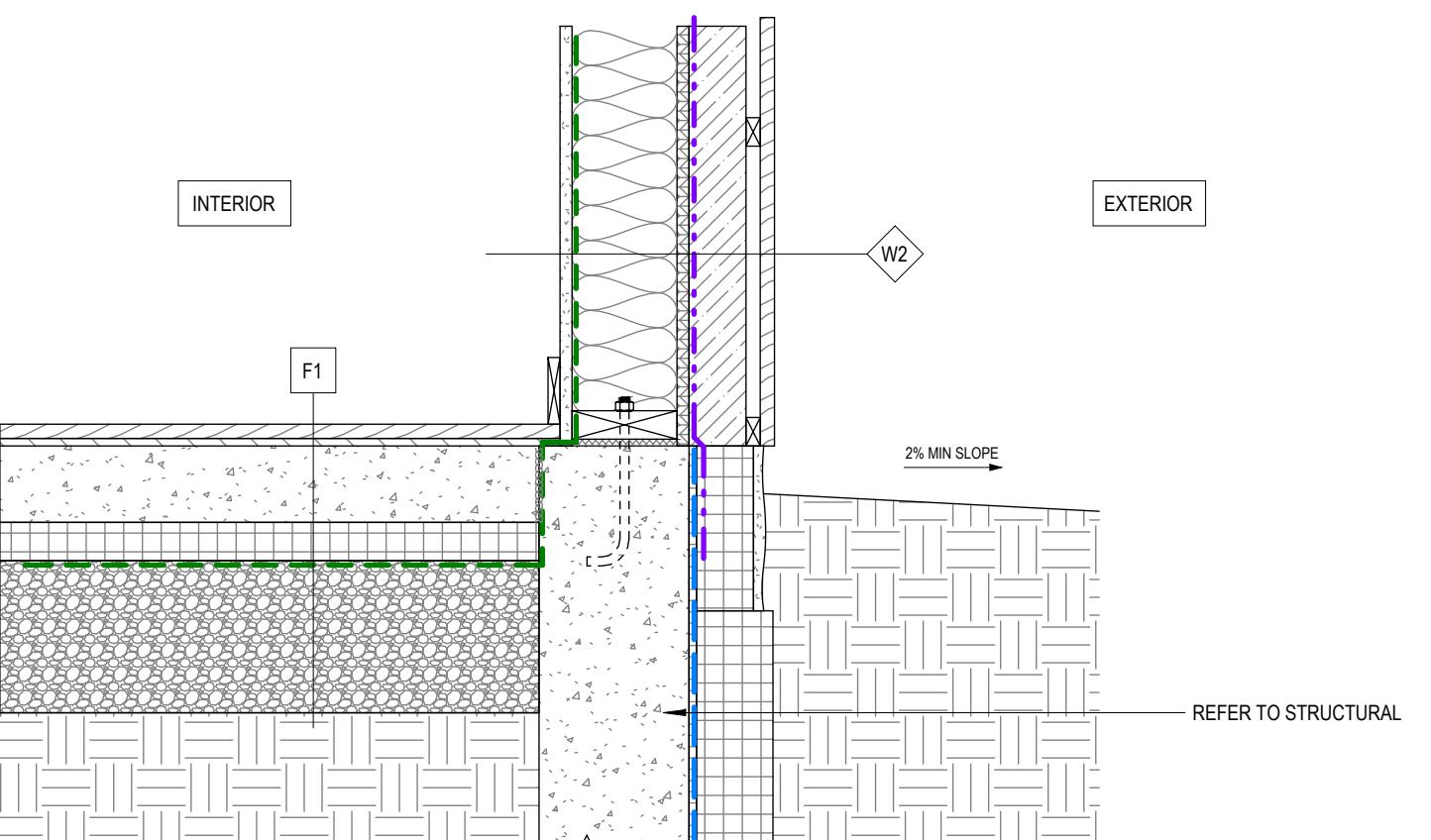
2 SECTION - TYP. WINDOW SOFFIT DETAIL
A007 1 : 10



3 SECTION DETAIL - TYP. EAVE & WINDOW HEAD
A007 1 : 10



4 SECTION DETAIL - TYP. FLOOR TO WALL & WINDOW SILL
A007 1 : 10



5 SECTION DETAIL - TYP. FOUNDATION DETAIL
A007 1 : 10

MEMBRANE LEGEND	
	AIR BARRIER, VAPOUR PERMEABLE
	AIR BARRIER, NON-VAPOUR PERMEABLE
	TRANSITION MEMBRANE
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING

INSULATION LEGEND	
	MINERAL WOOL, SEMI-RIGID
	EXTRUDED POLYSTYRENE
	EXPANDED POLYISOCYANURATE
	SPRAY FOAM
	MINERAL WOOL BATT

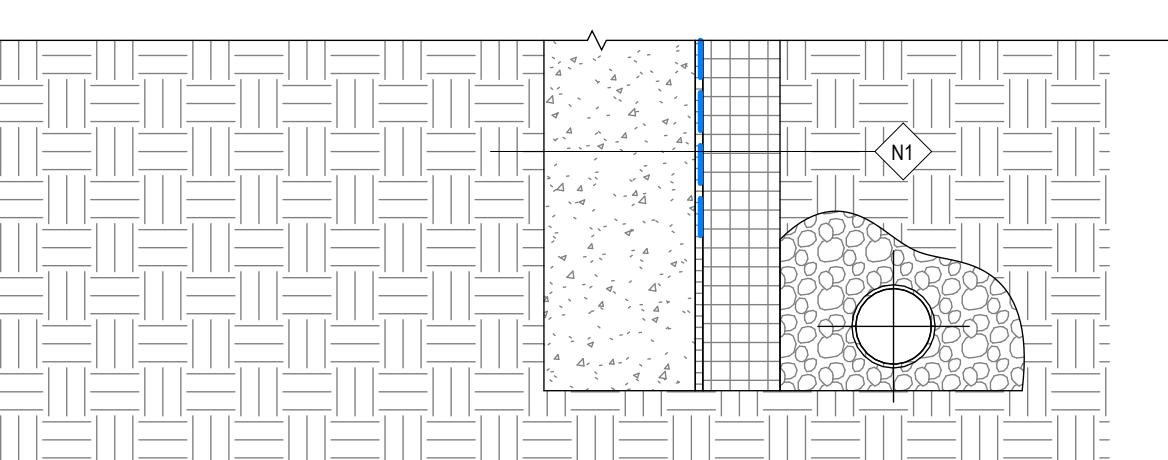
1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

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SHEET TITLE:
TYP. DETAILS

AB Sixplex 01



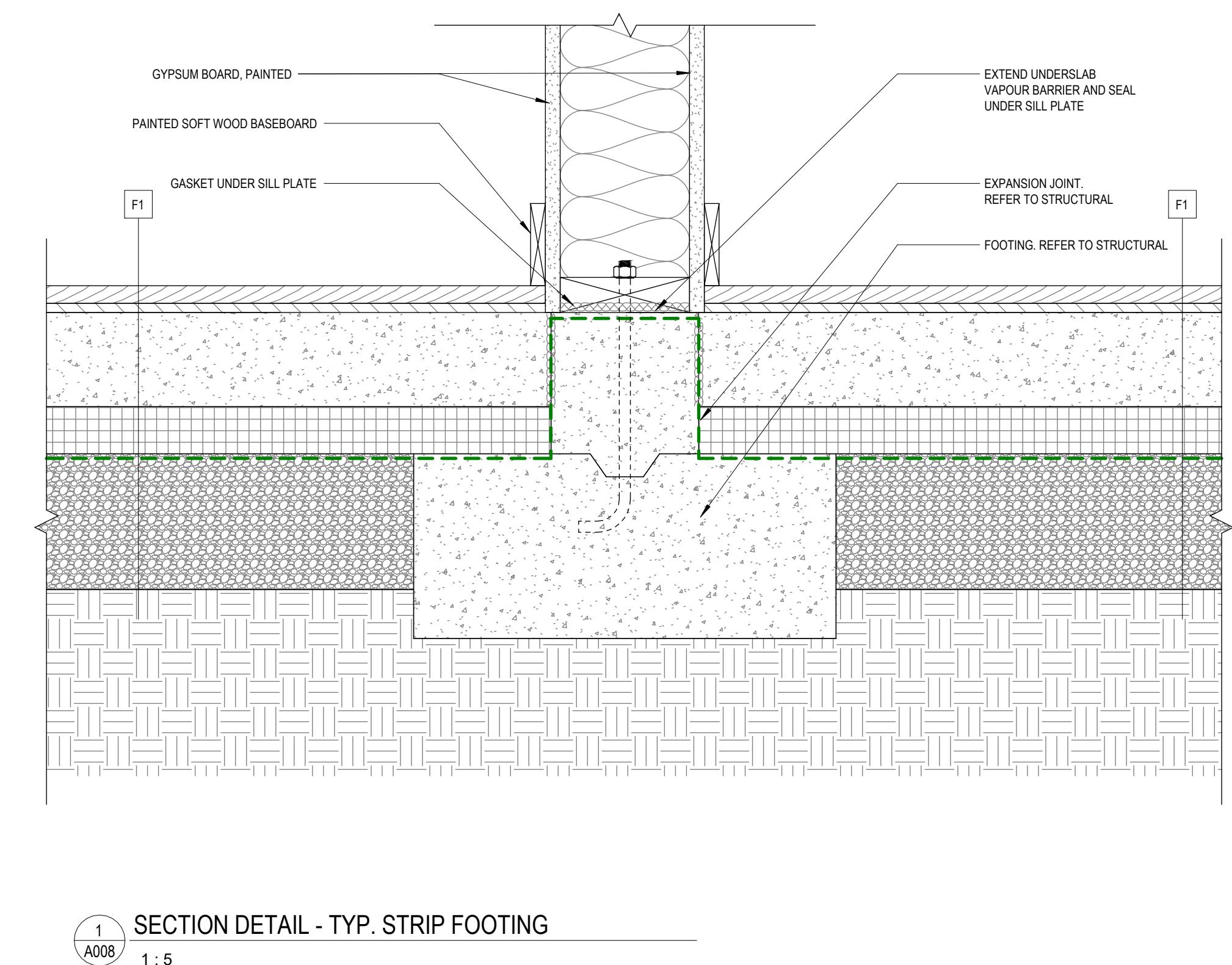
PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A007

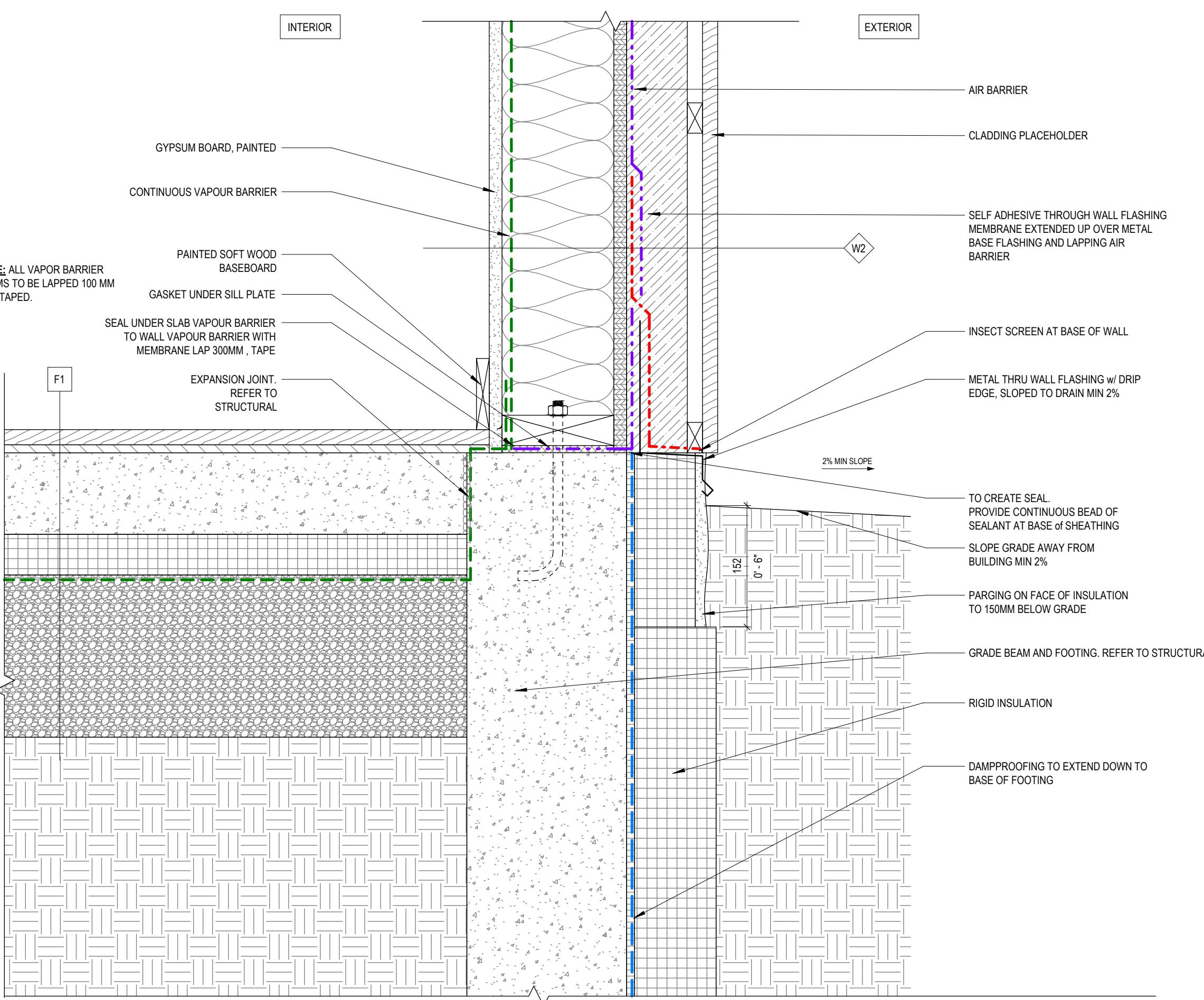
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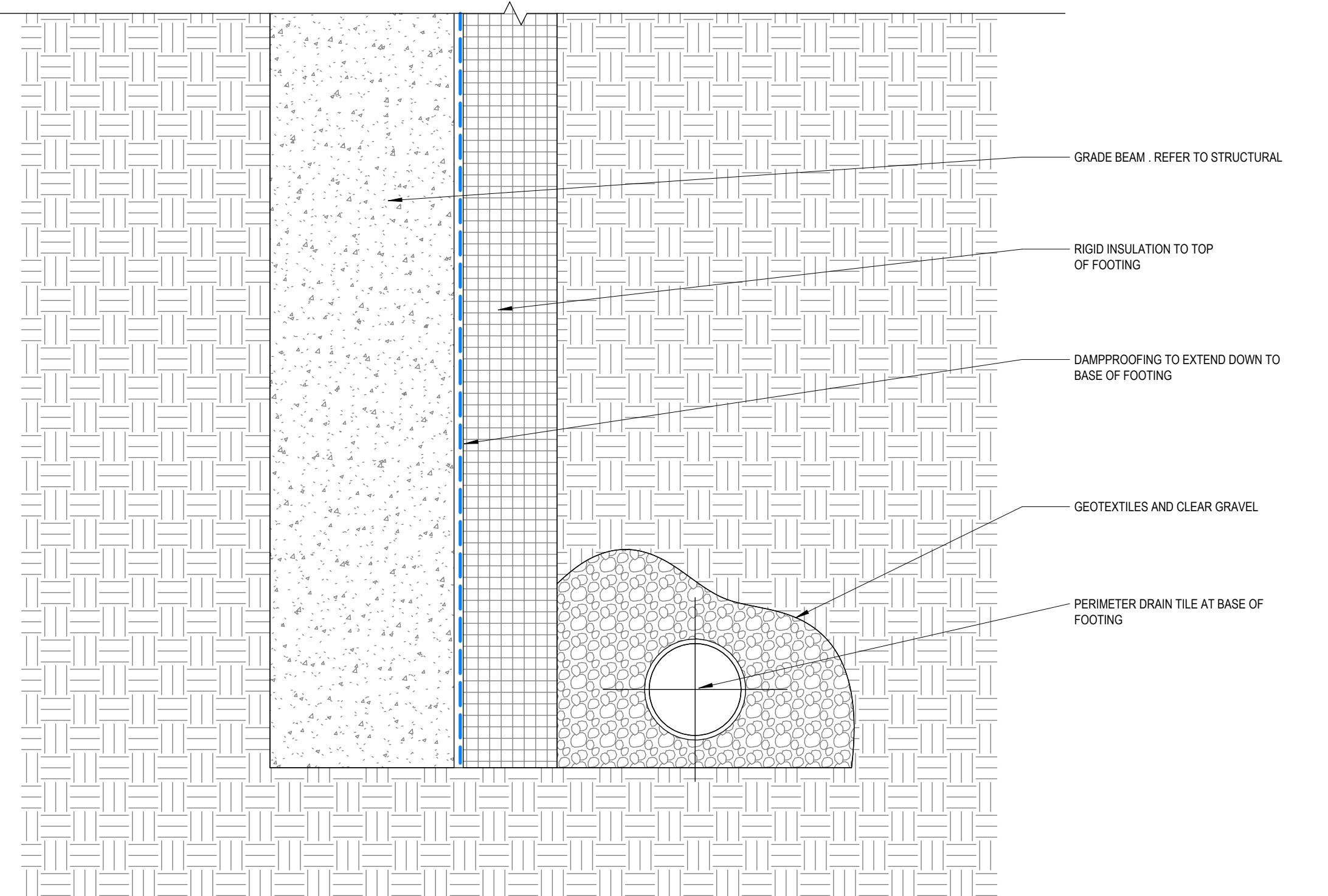
1 SECTION DETAIL - TYP. STRIP FOOTING

1 : 5



2 SECTION DETAIL - SECTION - TYP. FOOTING

1 : 5



3 SECTION DETAIL - SECTION - TYP. WALL TO FOUNDATION

1 : 5

MEMBRANE LEGEND

- AIR BARRIER, VAPOUR PERMEABLE
- AIR BARRIER, NON-VAPOUR PERMEABLE
- TRANSITION MEMBRANE
- THROUGH-WALL FLASHING
- VAPOUR CONTROL BARRIER
- FOUNDATION DAMP PROOFING
- PRE-FIN METAL FLASHING

INSULATION LEGEND

- MINERAL WOOL, SEMI-RIGID
- EXTRUDED POLYSTYRENE
- EXPANDED POLYISOCYANURATE
- SPRAY FOAM
- MINERAL WOOL BATT

1 2025-02-21 Issued as Prototypical Drawing

NO. DATE DESCRIPTION

PROJECT:

CMHC HOUSING DESIGN CATALOGUE

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SHEET TITLE:

TYP. DETAILS

AB Sixplex 01

PROJECT NO: 241058
SCALE: As indicated

SHEET NO:

A008

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MEMBRANE LEGEND

	AIR BARRIER, VAPOUR PERMEABLE
	AIR BARRIER, NON-VAPOUR PERMEABLE
	TRANSITION MEMBRANE
	THROUGH-WALL FLASHING
	VAPOUR CONTROL BARRIER
	FOUNDATION DAMP PROOFING
	PRE-FIN METAL FLASHING

INSULATION LEGEND

	MINERAL WOOL, SEMI-RIGID
	EXTRUDED POLYSTYRENE
	EXPANDED POLYISOCYANURATE
	SPRAY FOAM
	MINERAL WOOL BATT

1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION
PROJECT:		

CMHC HOUSING DESIGN CATALOGUE

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SHEET TITLE:

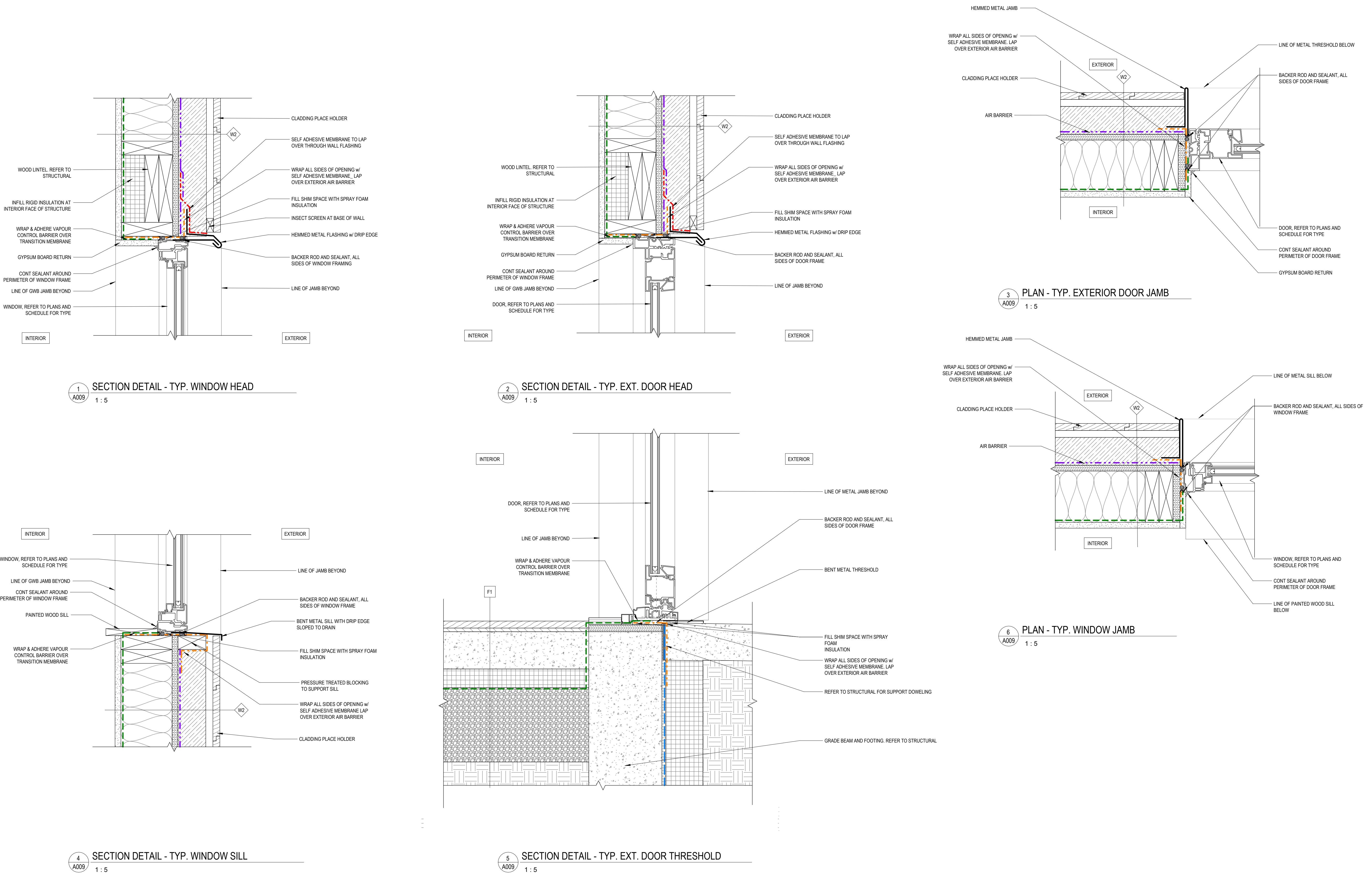
TYP. DETAILS

AB Sixplex 01

PROJECT NO: 241058
SCALE: As indicated

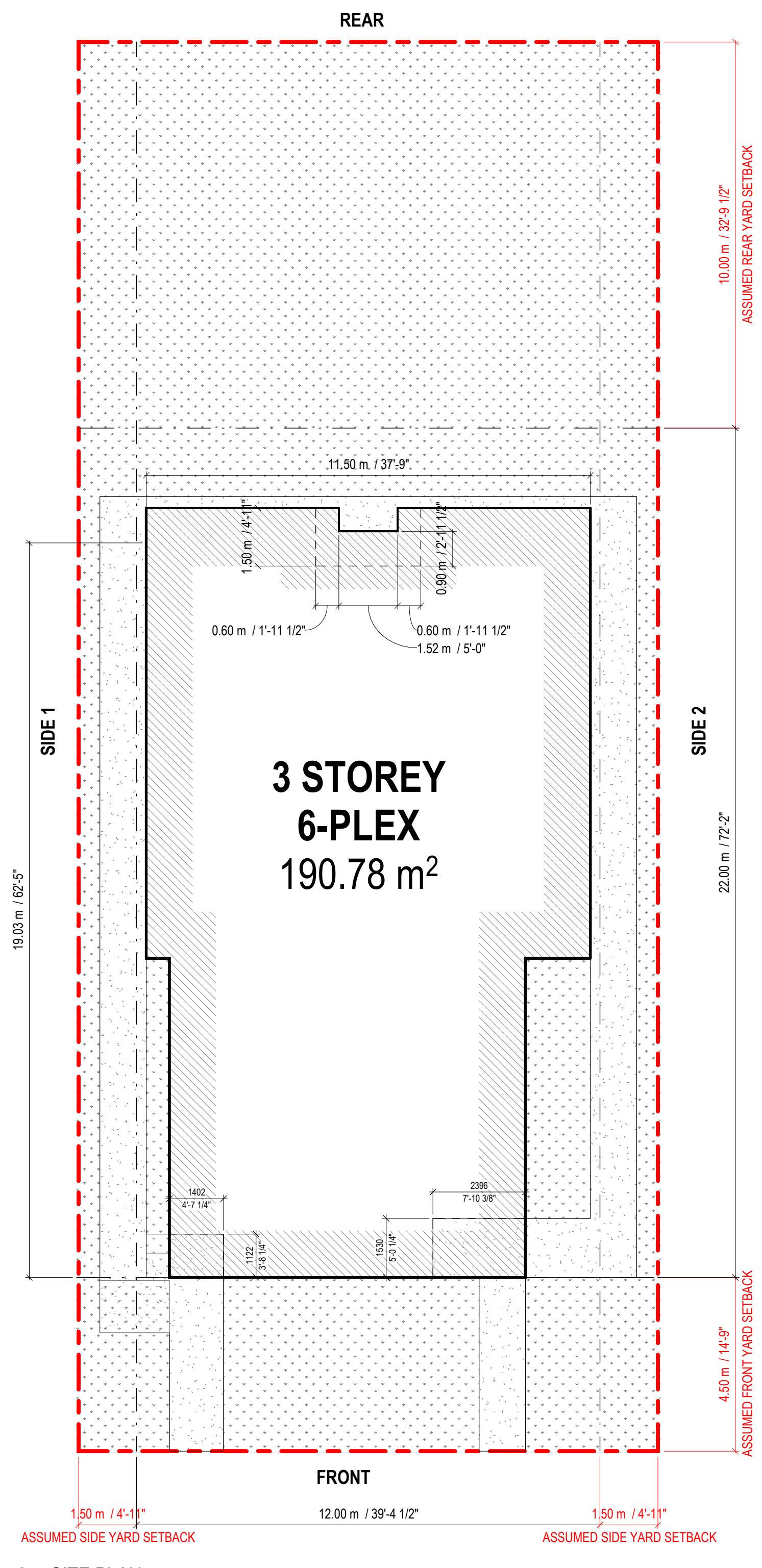
SHEET NO:

A009



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SITE PLAN

A010

1 : 100

SITE DATA	
ADDRESS	N/A
LOT & PLAN NO.	N/A
ZONING	N/A
EXISTING	
LOT AREA	547.50 m ²
BUILDING AREA	209.38 m ²
COVERAGE	38.2%
LANDSCAPED OPEN SPACE	338.12 m ²
SOFTSCAPE AREA	270.5m ² (49.4%)
HARDSCAPE AREA	72.1 m ² (13.2%)
PARKING SPOTS	-
SETBACKS	REQUIRED
FRONT	ASSUMED 4.50 m
SIDE	ASSUMED 1.50 m
REAR	ASSUMED 10.00 m
SIDE	ASSUMED 1.50 m
BUILDING DEPTH	19.03m

SITE PLAN GENERAL NOTES

1. SITE DESIGN TO CONFORM TO FIREFIGHTING ACCESS REQUIREMENTS AS PER NBC(AE) 9.10.20.
2. GRADE TO BE SLOPED AWAY FROM BUILDING AS PER NBC(AE) 9.14.6.1
3. DOWNSPOUT TO CONFORM TO NBC(AE) 9.26.18.2.
4. SITE DESIGN TO CONFORM TO BARRIER FREE REQUIREMENTS AS PER NBC(AE) 3.8.1.1. FOR ACCESS TO BARRIER FREE UNITS
5. ENTRANCE TO BARRIER FREE UNIT TO CONFORM TO NBC(AE) 3.8.1.2. AND NBC(AE) 3.8.3.3.
6. EXTERIOR WALKS THAT FORM PART OF A BARRIER-FREE PATH OF TRAVEL TO CONFORM FOR NBC(AE) 3.8.3.2.
7. SITE DESIGN TO CONFORM TO CSA/ASC B651 FOR ACCESS TO CSA/ASC B652 ENHANCED ACCESSIBILITY UNITS

SITE LEGEND	
	ASSUMED PROPERTY LINE
	SETBACK
	BUILDING
	SOFTSCAPE
	HARDSCAPE

ALBERTA BUILDING CODE DATA MATRIX
PART 9 - HOUSING AND SMALL BUILDINGS

BUILDING CODE VERSION	NATIONAL BUILDING CODE 2023 ALBERTA EDITION	ELEVENTH EDITION 2023	NBC(AE) REFERENCE		
PROJECT TYPE	NEW CONSTRUCTION RESIDENTIAL OCCUPANCY		[A] 1.3.3.		
MAJOR OCCUPANCY CLASSIFICATION	GROUP / DIVISION: C DESCRIPTION: 2 STOREY 4 DWELLING BUILDING	USE: RESIDENTIAL	9.10.2.		
SUPERIMPOSED MAJOR OCCUPANCIES	NO		9.10.2.3.		
BUILDING AREA (m ²)	DESCRIPTION: NEW CONSTRUCTION	TOTAL (m ²): 209.38	[A] 1.4.1.2.		
GROSS AREA (m ²)	FLOOR LEVEL: GROUND FLOOR DESCRIPTION: 3 RESIDENTIAL UNITS	TOTAL (m ²): 193.43	[A] 1.4.1.2.		
	SECOND FLOOR 3 RESIDENTIAL UNITS	209.38			
	THIRD FLOOR 2 RESIDENTIAL UNIT	89.24			
	TOTAL (m ²): 492.05				
BUILDING HEIGHT	3 STOREYS ABOVE GRADE	11.101 m ABOVE AVERAGE GRADE	[A] 1.4.1.2. AND 9.10.4.		
	0 STOREYS BELOW GRADE				
*NUMBER OF STREETS	TBC		9.10.20		
SPRINKLER SYSTEM	NOT REQUIRED	PROVIDED: N/A	9.10.8.2.		
FIRE ALARM SYSTEM	NOT REQUIRED	TYPE PROVIDED: N/A	9.10.18		
*WATER SUPPLY IS ADEQUATE					
CONSTRUCTION TYPE	PERMITTED: COMBUSTIBLE PROPOSED: COMBUSTIBLE	CONSTRUCTION: NEW CONSTRUCTION SLAB ON GRADE: WOOD FRAMED CONSTRUCTION	9.10.6		
POST-DISASTER BUILDING	NO		[A] 1.3.3.		
OCCUPANT LOAD	FLOOR LEVEL: GROUND FLOOR UNIT #: UNIT 1 OCCUPANCY TYPE: RESIDENTIAL BASED ON: 2 SLEEPING ROOMS	UNIT #:	3.1.17(1)(b) AND 9.9.1.3.(2)		
	UNIT 1 - ALT 1 SLEEPING ROOM				
	UNIT 2 1 SLEEPING ROOM				
	UNIT 3 1 SLEEPING ROOM				
	UNIT 4 1 SLEEPING ROOMS				
	UNIT 5 2 SLEEPING ROOMS				
	UNIT 5 1 SLEEPING ROOM				
	UNIT 6 1 SLEEPING ROOM				
	UNIT 6 2 SLEEPING ROOM				
	UNIT 6 2 SLEEPING ROOM				
BARRIER-FREE DESIGN	REQUIRED		9.5.2.		
HAZARDOUS SUBSTANCES	NO		9.10.1.3.(4)		
REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY: 1 HR FLOORS EXCEPT CRAWLSPACE: 1 HR	SUPPORTING ASSEMBLY: 7.8% % OPENINGS MAX: 8.0% % PROVIDED: 7.8% RATING: TBC CONSTRUCTION TYPE: TBC CLADDING TYPE: TBC	9.10.8. AND 9.10.9.16 (3)		
*SPATIAL SEPARATION	WALL: EBF AREA (m ²): 60.5 FRONT (SOUTH) 4.50 REAR (NORTH) 35.9 SIDE 1 (EAST) 102.5 SIDE 2 (WEST) 101.4	LD (m): 4.50 6.00 1.50 1.50	23.4% 8.0% 2.7% 8.0%	RATING: TBC CONSTRUCTION TYPE: TBC CLADDING TYPE: TBC	9.10.15.
PLUMBING FIXTURE REQUIREMENTS	A KITCHEN SINK, LAVATORY, BATHTUB OR SHOWER SHALL BE PROVIDED FOR EVERY DWELLING UNIT				9.31.
NOTES	01 ALL REFERENCES ARE TO DIVISION B OF THE NATIONAL BUILDING CODE UNLESS PRECEDED BY [A] FOR DIVISION A.				

AB Sixplex 01

 PROJECT NO: 241058
 SCALE: As indicated

SHEET NO:

A010

 PROJECT:
CMHC HOUSING DESIGN CATALOGUE
 ALBERTA, CANADA

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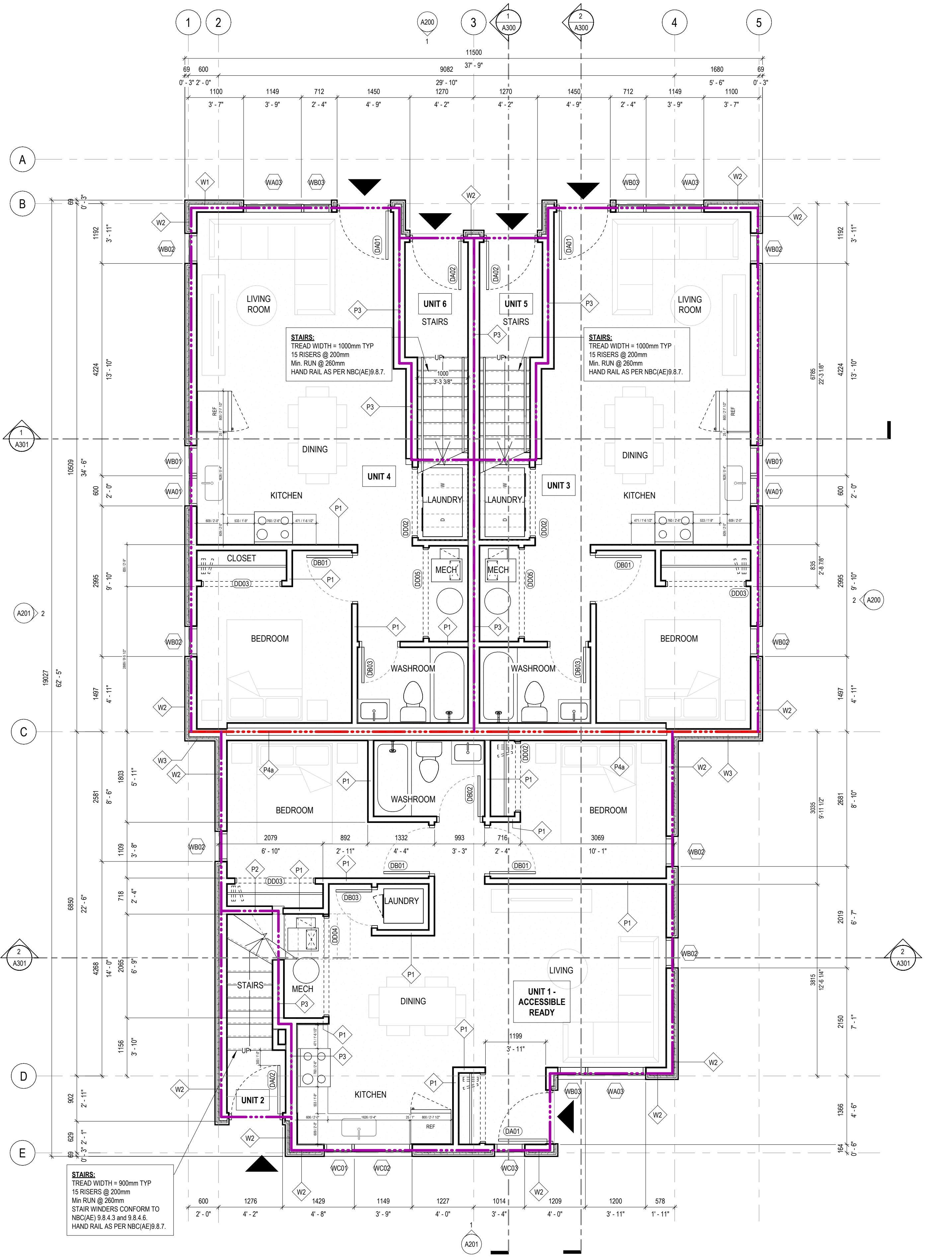
 SHEET TITLE:
SITE PLAN & CODE MATRIX

A010

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN TO THE FINISH FACE OF THE INTERIOR PARTITIONS AND EXTERIOR WALLS, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS AT EXTERIOR WINDOWS AND DOORS ARE TAKEN TO THE OUTSIDE EDGE OF THE FRAME, UNLESS NOTED OTHERWISE.
3. LOCATE ROUGH OPENINGS OF INTERIOR DOORS 100mm FROM INSIDE FACE IF INTERSECTING PARTITION, UNLESS NOTED OTHERWISE.
4. CLOSET DOORS TO BE CENTERED ALONG INTERIOR CLOSET WIDTH, UNLESS NOTED OTHERWISE.
5. ALL DROPPED CEILINGS AND BULKHEADS FOR MECHANICAL TO PROVIDE MIN 2100mm CLEAR BELOW.
6. MIN CEILING HEIGHTS AS PER ABC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
BEDROOM = 2100mm
LIVING/DINING/KITCHEN = 2100mm
7. REFER TO LANDSCAPE DOCUMENTS FOR EXTERIOR HARDSCAPE AND PLANTING ELEMENTS, AND PAVING TERMINATION DETAILS ADJACENT TO THE BUILDING.

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FIRE SEPARATION LEGEND

	1 HOUR F.R.R.
	2 HOUR F.R.R.

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	PRE-FAB TUB
	KITCHEN SINK
	WASHROOM SINK
	WASHER
	DRYER
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	REFRIGERATOR
	CLOSET COAT ROD

1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

NOT FOR PERMIT OR CONSTRUCTION

SHEET TITLE:
MAIN FLOOR PLAN - ACCESSIBLE READY

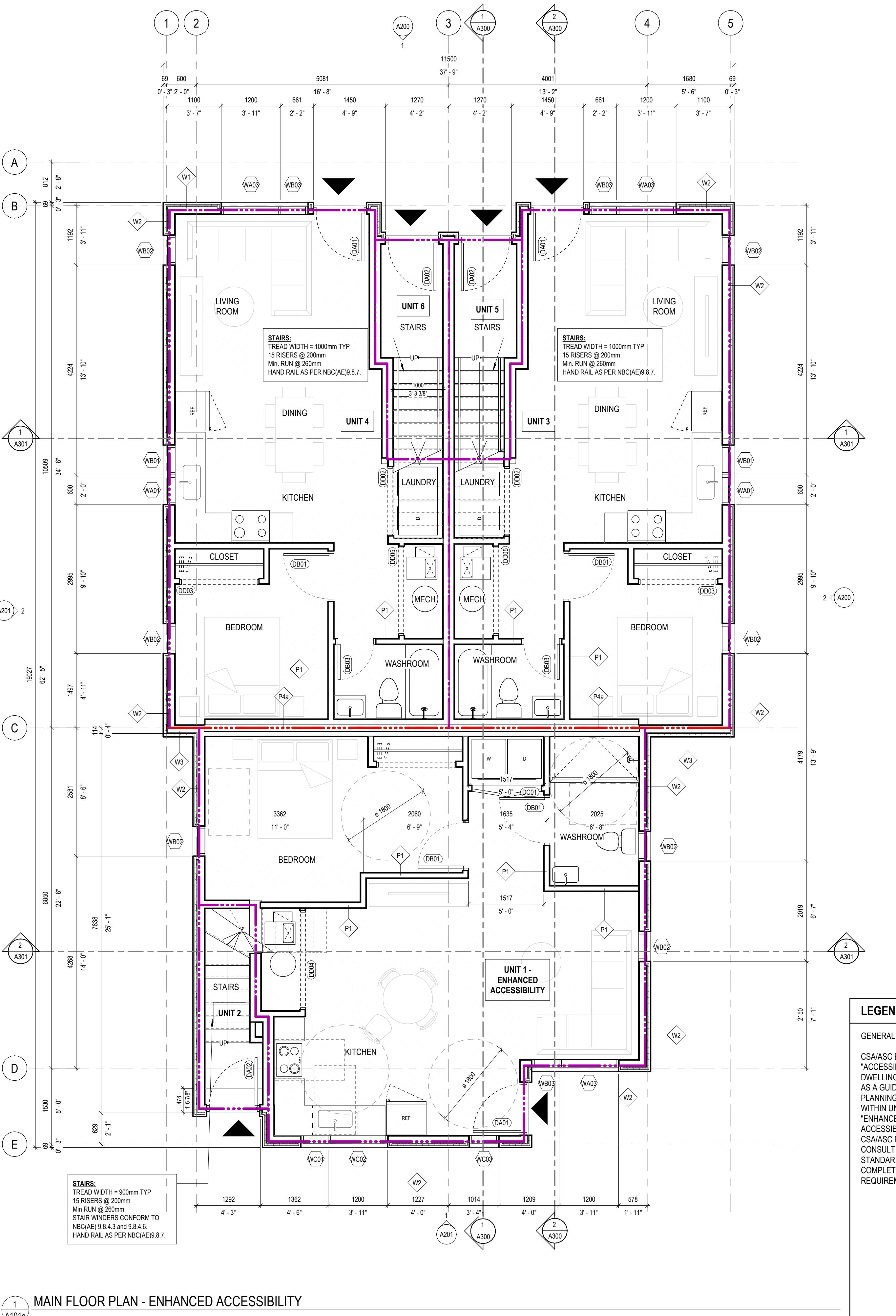
AB Sixplex 01

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:

A101

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FLOOR PLAN GENERAL NOTES	
1.	ALL DIMENSIONS ARE TAKEN TO THE FINISH FACE OF THE INTERIOR PARTITIONS AND EXTERIOR WALLS, UNLESS NOTED OTHERWISE.
2.	ALL DIMENSIONS AT EXTERIOR WINDOWS AND DOORS ARE TAKEN TO THE OUTSIDE EDGE OF THE FRAME, UNLESS NOTED OTHERWISE.
3.	LOCATE ROUGH OPENINGS OF INTERIOR DOORS 100mm FROM INSIDE FACE IF INTERSECTING PARTITION, UNLESS NOTED OTHERWISE.
4.	CLOSET DOORS TO BE CENTERED ALONG INTERIOR CLOSET WIDTH, UNLESS NOTED OTHERWISE.
5.	ALL DROPPED CEILINGS AND BULKHEADS FOR MECHANICAL TO PROVIDE MIN 2100mm CLEAR BELOW.
6.	MIN CEILING HEIGHTS AS PER ABC TABLE 9.5.3.1 BATHROOMS & HALLWAYS = 2100mm BEDROOM = 2100mm LIVING/DINING/KITCHEN = 2100mm
7.	REFER TO LANDSCAPE DOCUMENTS FOR EXTERIOR HARDCAPE AND PLANTING ELEMENTS, AND PAVING TERMINATION DETAILS ADJACENT TO THE BUILDING.

FIRE SEPARATION LEGEND	
	1 HOUR F.R.R.
	2 HOUR F.R.R.

FLOOR PLAN LEGEND	
	FLOOR MOUNTED TOILET
	PRE-FAB TUB
	KITCHEN SINK
	WASHROOM SINK
	WASHER
	DRYER
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	REFRIGERATOR
	CLOSET COAT ROD

DOOR SCHEDULE - ENHANCED ACCESS							
TAG	TYPE	METRIC SIZE (mm)		IMPERIAL SIZE (FT-IN)		FIRE RATING	COMMENTS
		WIDTH	HEIGHT	WIDTH	HEIGHT		
DA01	DOOR TYPE A	965	2349	3'-2"	7'-8 1/2"	N/A	DOOR VIEWER AS PER NBC(A/E) 9.7.2.1
DA02	DOOR TYPE A	965	2349	3'-2"	7'-8 1/2"	3/4HR	DOOR VIEWER AS PER NBC(A/E) 9.7.2.1 RATING AS PER NBC(A/E) 9.10.13.2.
DB01	DOOR TYPE B	914	2032	3'-0"	6'-9"	N/A	
DB02	DOOR TYPE B	813	2032	2'-8"	6'-6"	N/A	
DB03	DOOR TYPE B	711	2032	2'-4"	6'-6"	N/A	
DC01	DOOR TYPE C	1400	2000	4'-7 1/8"	6'-6 3/4"	N/A	
DD01	DOOR TYPE D	1000	2032	3'-3 3/8"	6'-6"	N/A	
DD02	DOOR TYPE D	1400	2032	4'-7 1/8"	6'-6"	N/A	
DD03	DOOR TYPE D	1600	2032	5'-3"	6'-6"	N/A	
DD04	DOOR TYPE D	2000	2032	6'-6 3/4"	6'-6"	N/A	
DD05	DOOR TYPE D	1800	2032	5'-10 7/8"	6'-6"	N/A	

BEDROOMS (B652:23 5.11)		LAUNDRY (B652:23 5.12)		CLOSETS (B652:23 5.13)	
REFER TO B652:23 5.11 BEDROOMS FOR ADDITIONAL REQUIREMENTS:		REFER TO B652:23 5.12 LAUNDRY FOR ADDITIONAL REQUIREMENTS:		REFER TO B652:23 5.13 CLOSETS FOR ADDITIONAL REQUIREMENTS:	
1. CLEAR SPACE AND TRANSFER SPACES AROUND BED 2. ELECTRICAL REQUIREMENTS IN BEDROOMS		1. APPLIANCE REQUIREMENTS CLOSET DOORS SHALL ALLOW FULL ACCESS TO SIDE-BY-SIDE UNITS STORAGE AND ACCESSORY REQUIREMENTS		1. SHELVES, HANGING ROD HEIGHTS AND STORAGE REQUIREMENTS	

LEGEND		DOORS AND DOORWAYS (B652:23 5.7)		BATHROOMS (B652:23 5.9)		KITCHEN (B652:23 5.10)	
GENERAL NOTE: CSA/ASC B652:23 - "ACCESSIBLE DWELLINGS" WAS USED AS A GUIDE FOR SPACE PLANNING PURPOSES WITHIN UNIT(S) LABELED "ENHANCED ACCESSIBILITY - CSA/ASC B652". CONSULT THE STANDARD FOR A COMPLETE SET OF REQUIREMENTS.							
		REFER TO B652:23 5.7 DOORS AND DOORWAYS FOR ADDITIONAL REQUIREMENTS:		REFER TO B652:23 5.9 BATHROOM(S) FOR ADDITIONAL REQUIREMENTS:		REFER TO B652:23 5.10 KITCHENS FOR ADDITIONAL REQUIREMENTS:	
		1. DOOR WIDTH AND CLEARANCE 2. POWER DOOR OPERATOR REQUIREMENTS		1. WALL REINFORCING BACKING AND GRAB BARS VANITY AND ACCESSORY REQUIREMENTS WASHROOM ILLUMINATION REQUIREMENTS		1. MIN. REO COUNTER SPACE BETWEEN COOKTOP AND SINK NOT LESS THAN 820mm 2. ADDITIONAL KITCHEN FIXTURE AND APPLIANCE REQUIREMENTS 3. ELECTRICAL REQUIREMENTS IN KITCHEN 4. ADDITIONAL CABINETRY AND SPACE PLANNING REQUIREMENTS	
		SLIDING DOOR	SWINGING DOOR	ROLL-IN SHOWER	TOILET	BATHROOM SINK	REFRIGERATOR
		PULL SIDE	PUSH SIDE	TRANSFER SPACE AND CLEAR SPACE AS PER B652:23 5.9	WASHROOM SINK AS PER B652:23 5.9 KITCHENS	REFRIGERATOR AS PER B652:23 5.10 KITCHENS	KITCHEN SINK AS PER B652:23 5.10 KITCHENS
		WHEN SHOWER IS USED AS PART OF THE TURNING RADIUS, THE SHOWER TO REMAIN UNOBSTRUCTED, HAVE A SLOPE LESS THAN 2% AND BE CONSTRUCTED AS A WET ROOM.		BLOCKING BESIDE TOILET FOR GRAB BAR AS PER B652:23 5.9	CLEAR SPACE BELOW AS PER B652:23 5.9 BATHROOM(S)	CLEAR SPACE IN FRONT AS PER B652:23 5.10 KITCHENS	CLEAR SPACE BELOW AS PER B652:23 5.10 KITCHENS
				GRAB RAILS AS PER B652:23 5.9 GRAB BARS		CLEAR SPACE BELOW AS PER B652:23 5.10 KITCHENS	CLEAR SPACE IN FRONT AS PER B652:23 5.10 KITCHENS

**NOT FOR PERMIT
OR CONSTRUCTION**

**MAIN FLOOR PLAN -
ENHANCED
ACCESSIBILITY**

AB Sixplex 01

PROJECT NO: 241058
SCALE: 1: 50

SHEET NO: A101a

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

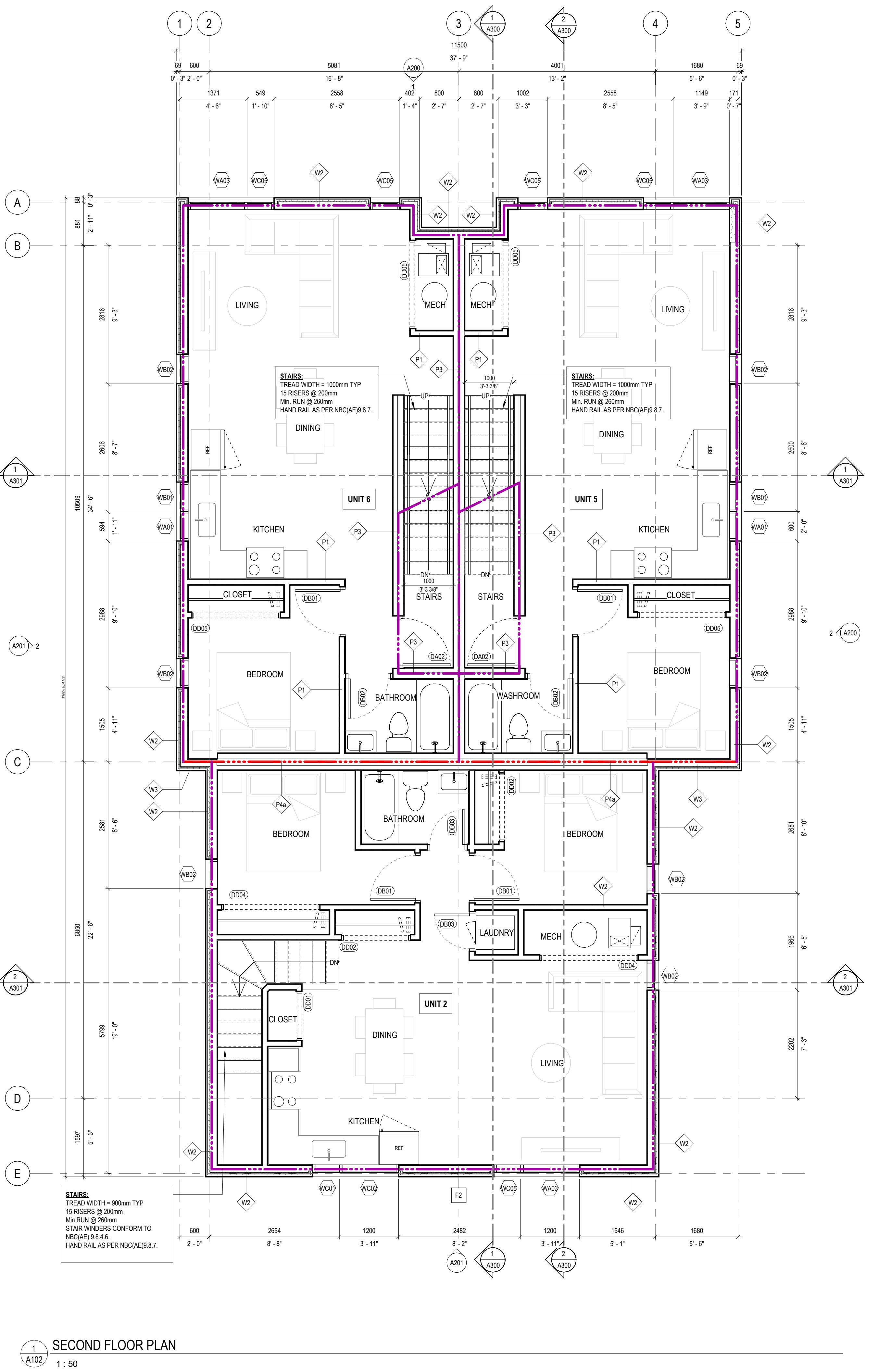
1 2025-02-21 Issued as Prototypical Drawing

NO. DATE DESCRIPTION

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN TO THE FINISH FACE OF THE INTERIOR PARTITIONS AND EXTERIOR WALLS, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS AT EXTERIOR WINDOWS AND DOORS ARE TAKEN TO THE OUTSIDE EDGE OF THE FRAME, UNLESS NOTED OTHERWISE.
3. LOCATE ROUGH OPENINGS OF INTERIOR DOORS 100mm FROM INSIDE FACE IF INTERSECTING PARTITION, UNLESS NOTED OTHERWISE.
4. CLOSET DOORS TO BE CENTERED ALONG INTERIOR CLOSET WIDTH, UNLESS NOTED OTHERWISE.
5. ALL DROPPED CEILINGS AND BULKHEADS FOR MECHANICAL TO PROVIDE MIN 2100mm CLEAR BELOW.
6. MIN CEILING HEIGHTS AS PER ABC TABLE 9.5.3.1
BATHROOMS & HALLWAYS = 2100mm
BEDROOM = 2100mm
LIVING/DINING/KITCHEN = 2100mm
7. REFER TO LANDSCAPE DOCUMENTS FOR EXTERIOR HARDCAPE AND PLANTING ELEMENTS, AND PAVING TERMINATION DETAILS ADJACENT TO THE BUILDING.

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FIRE SEPARATION LEGEND

	1 HOUR F.R.R.
	2 HOUR F.R.R.

FLOOR PLAN LEGEND

	FLOOR MOUNTED TOILET
	PRE-FAB TUB
	KITCHEN SINK
	WASHROOM SINK
	WASHER
	DRYER
	DOMESTIC HOT WATER
	AIR HANDLER
	RANGE, TYPICAL
	REFRIGERATOR
	CLOSET COAT ROD

1 2025-02-21 Issued as Prototypical Drawing
NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

NOT FOR PERMIT OR CONSTRUCTION

SHEET TITLE:
SECOND FLOOR PLAN

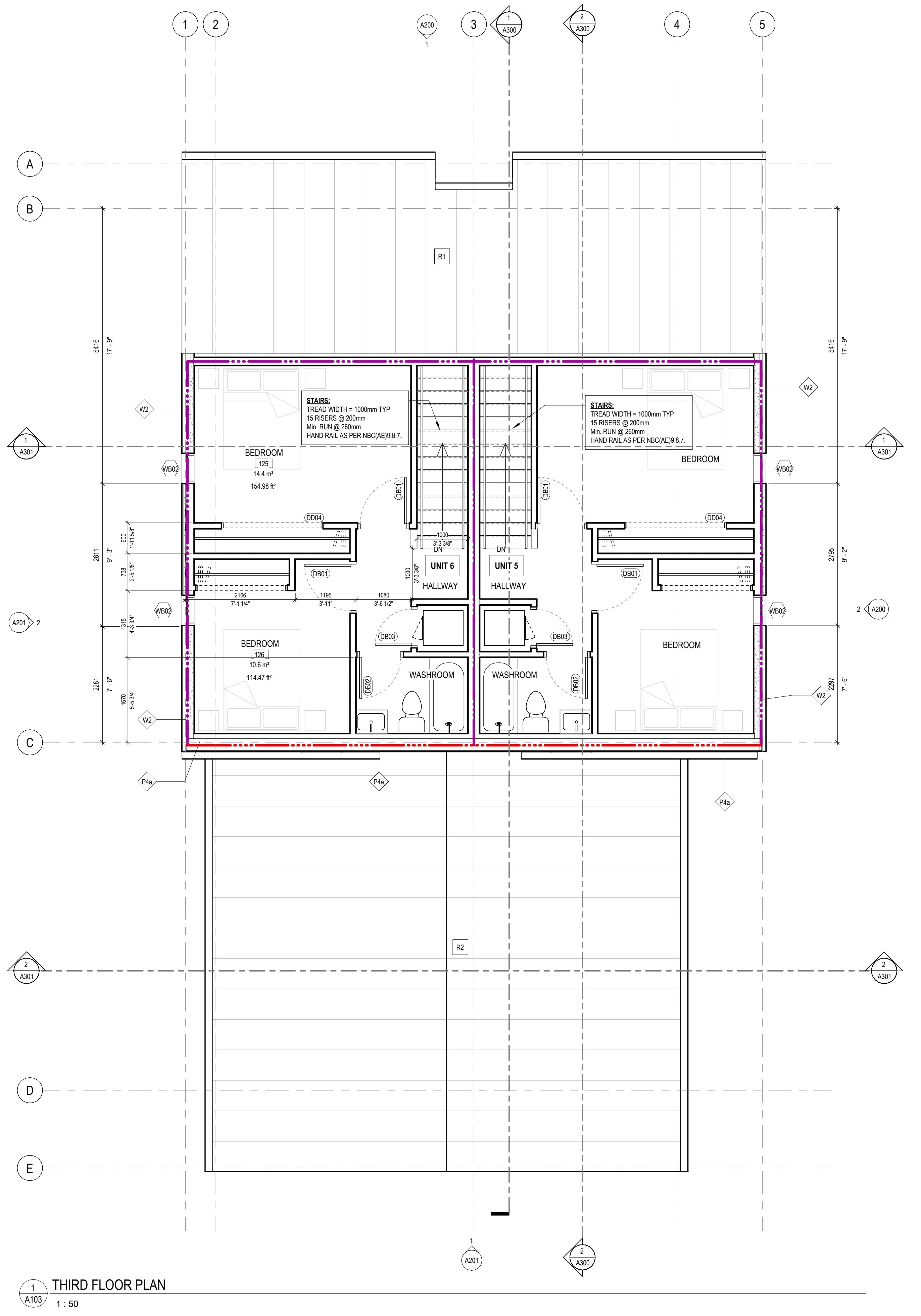
AB Sixplex 01

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:

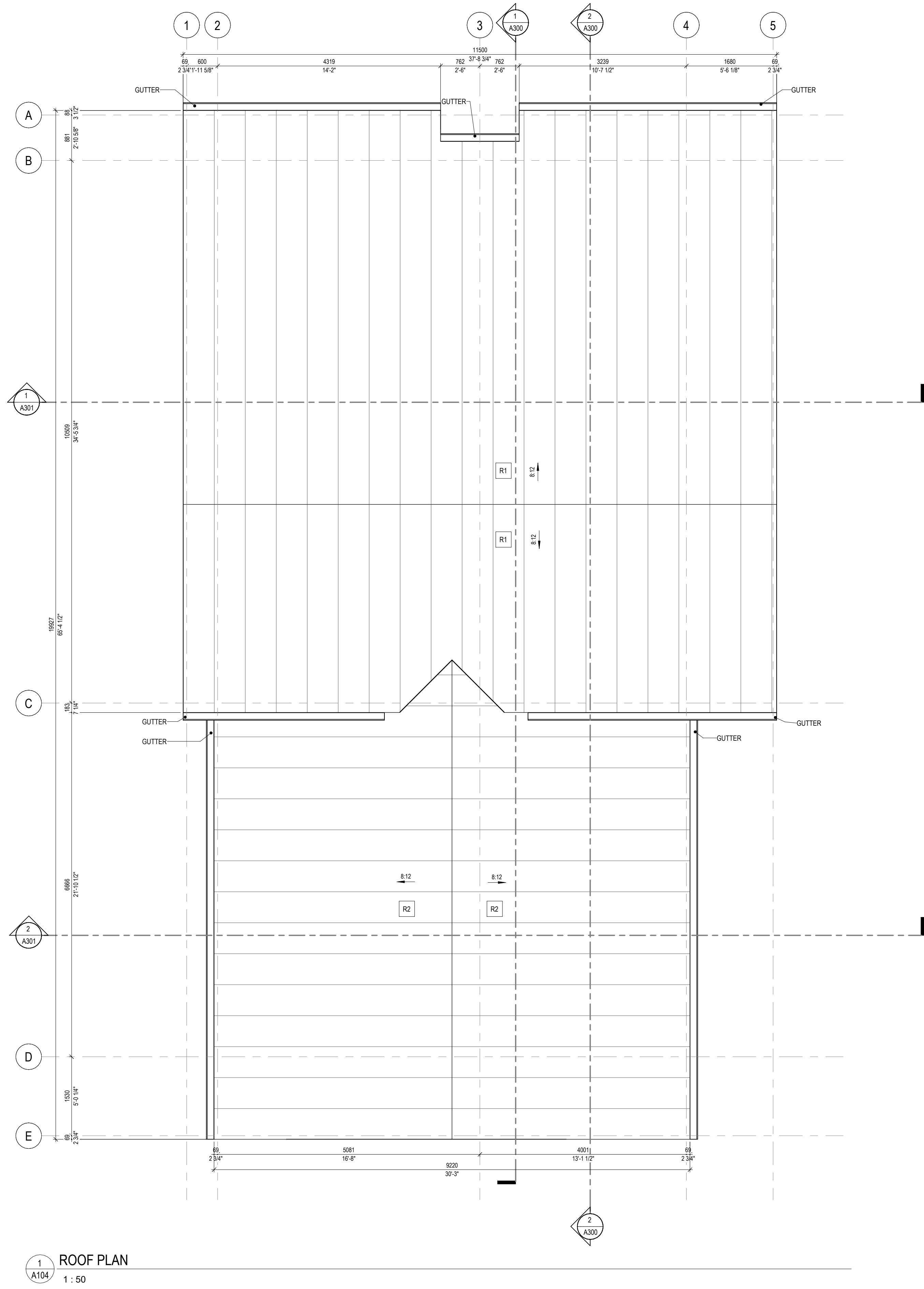
A102

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ROOF PLAN GENERAL NOTES	
1.	ALL ROOFING TYPES TO COMPLY WITH REQUIRED MINIMUM SLOPES AS PER ABC(AE) 9.26.3 AND MANUFACTURER REQUIREMENTS FOR SPECIFIED ROOFING TYPES
2.	ALL ROOFS, GUTTERS AND TROUGHS HAVE POSITIVE SLOPE TO DRAIN.
3.	ROOF VENTING TO COMPLY WITH 9.19.1.2

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NO.	DATE	DESCRIPTION
1	2025-02-21	Issued as Prototypical Drawing

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

NOT FOR PERMIT OR CONSTRUCTION

ROOF PLAN

AB Sixplex 01

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:
A104



ELEVATION MATERIAL SCHEDULE

AG	MATERIAL
PH-1	CLADDING PLACEHOLDER, TYPE 1
PH-2	CLADDING PLACEHOLDER, TYPE 2

NOTE: CLADDING FINISHES WITHIN 200MM OF GRADE ARE TO BE MOISTURE RESISTANT

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1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
**CMHC HOUSING DESIGN
CATALOGUE**

ALBERTA, CANADA

NOT FOR PERMIT OR CONSTRUCTION

SHEET TITLE:

AB Sixplex 01

PROJECT NO: 241058
SCALE: 1 : 50

SHFT NO:

A200



BUILDING ELEVATION - REAR



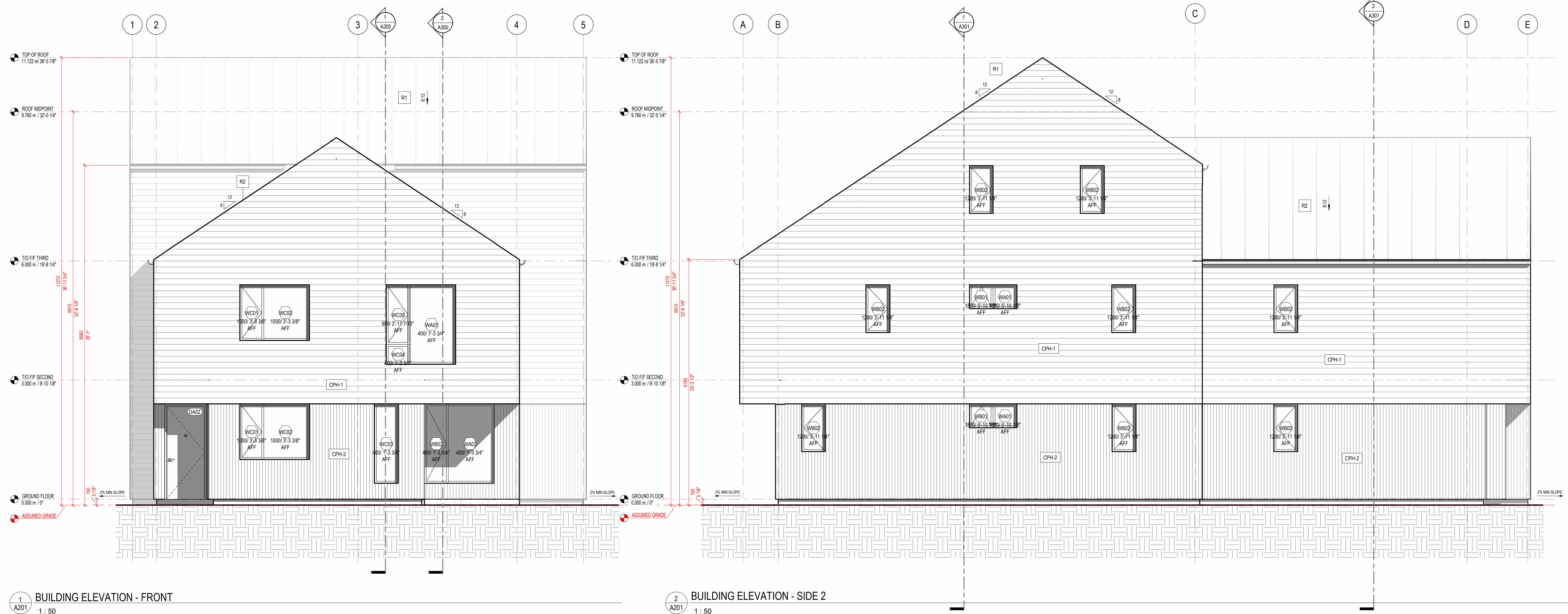
2
200

BUILDING ELEVATION - SIDE 1

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

NOTE: CLADDING FINISHES WITHIN 200MM OF GRADE ARE TO BE MOISTURE RESISTANT

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1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

ONTARIO, CANADA

NOT FOR PERMIT OR CONSTRUCTION

SHEET TITLE:
ELEVATIONS

AB Sixplex 01

PROJECT NO: 241058
 SCALE: 1 : 50

SHEET NO:

A201



SECTION KEYNOTES

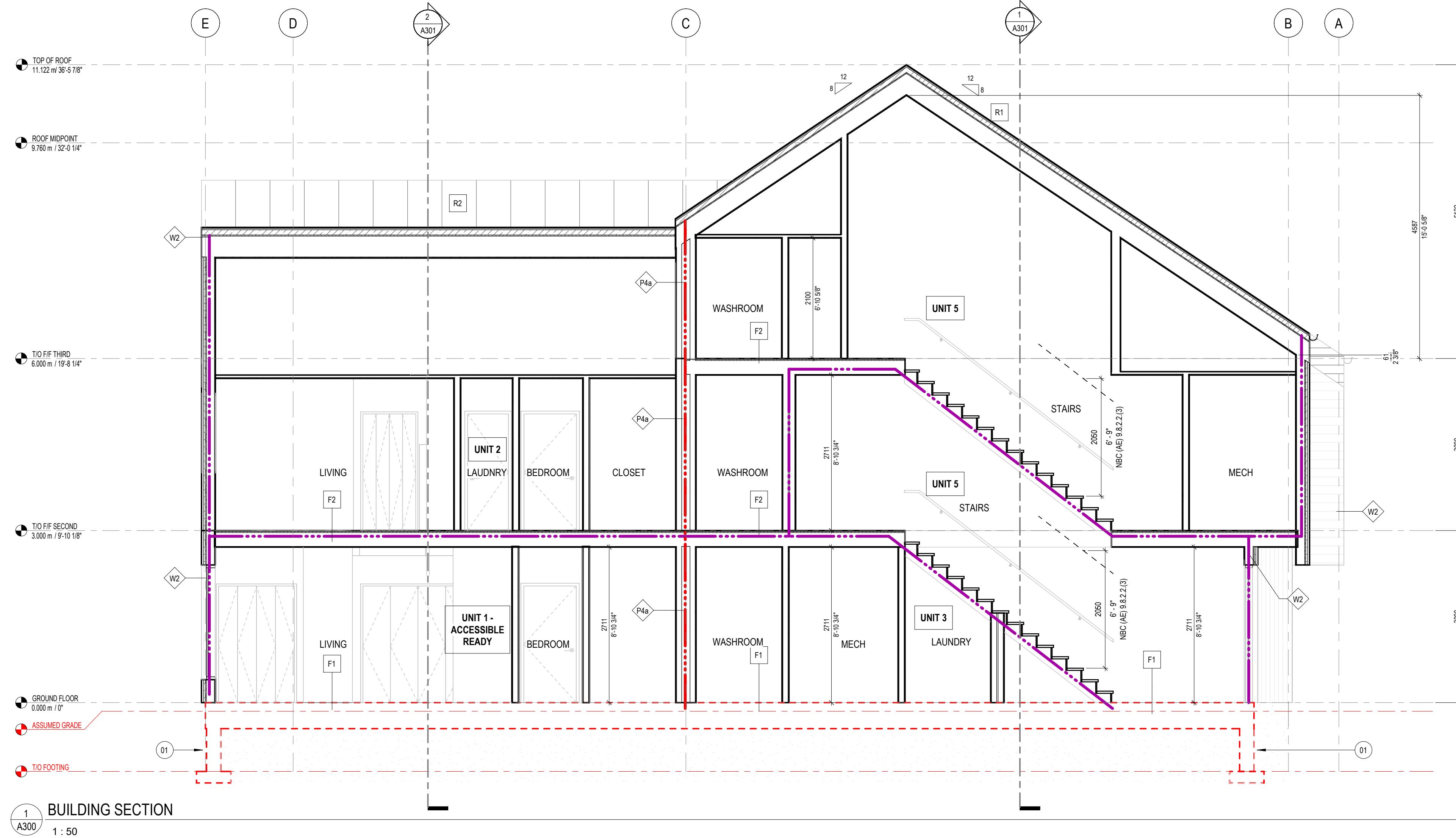
01 FOUNDATIONS: ASSUMED, REFER TO STRUCTURAL DRAWINGS

FIRE SEPARATION LEGEND

— · · · — 1HR

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1	2025-02-21	Issued as Prototypical Drawing
NO	DATE	DESCRIPTION

PROJECT:
**CMHC HOUSING DESIGN
CATALOGUE**

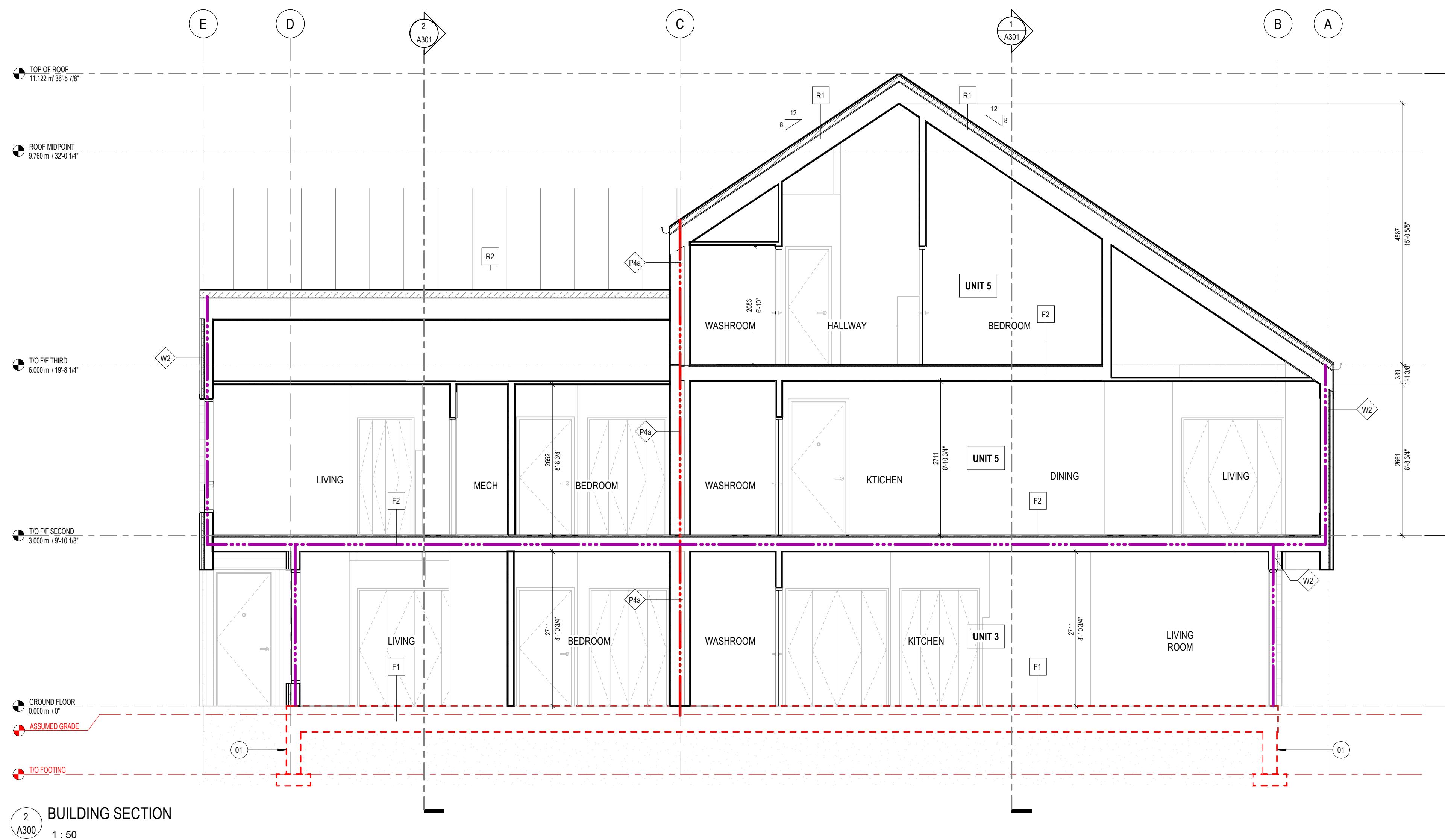
**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE: SECTIONS

AB Sixplex 01

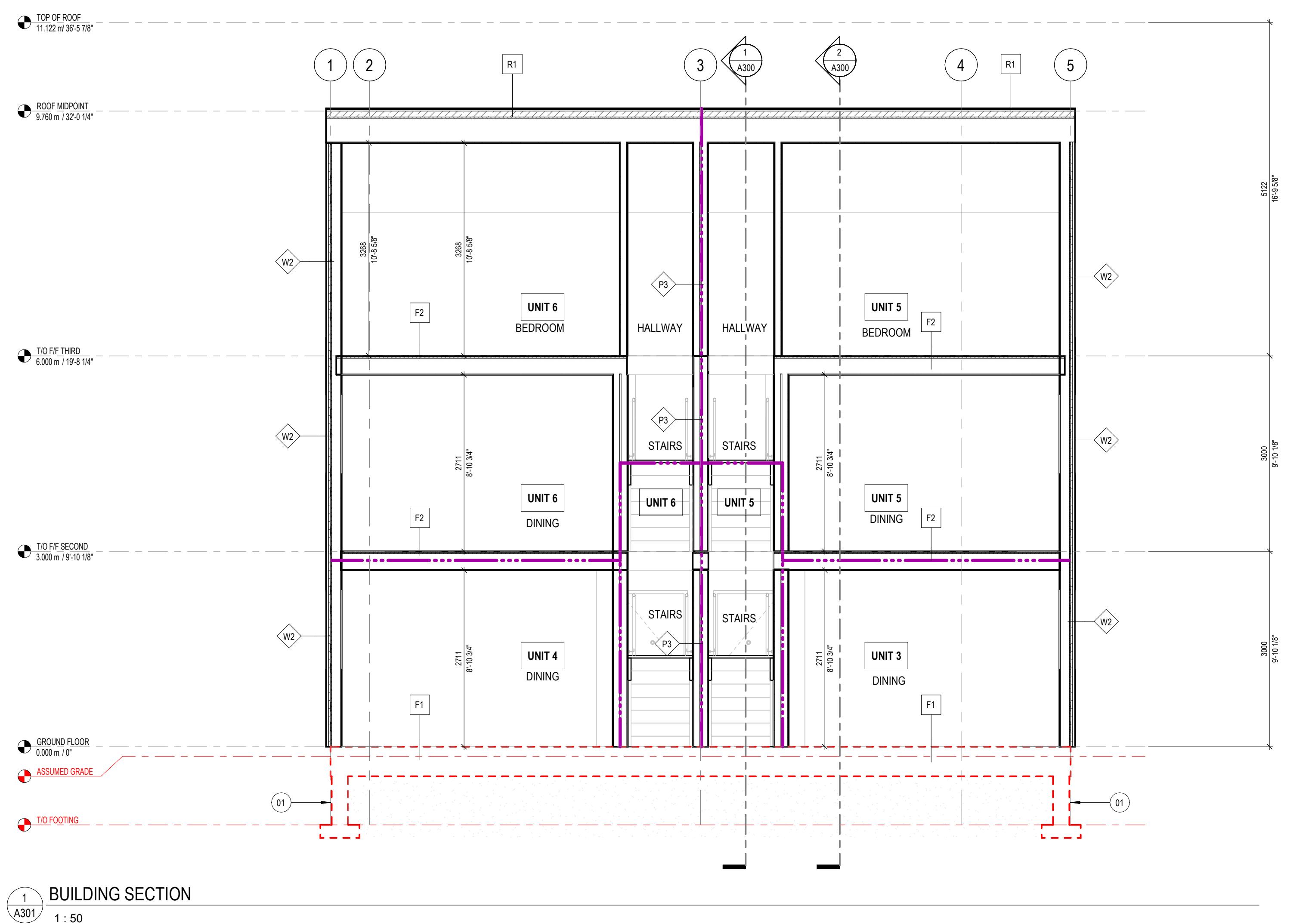
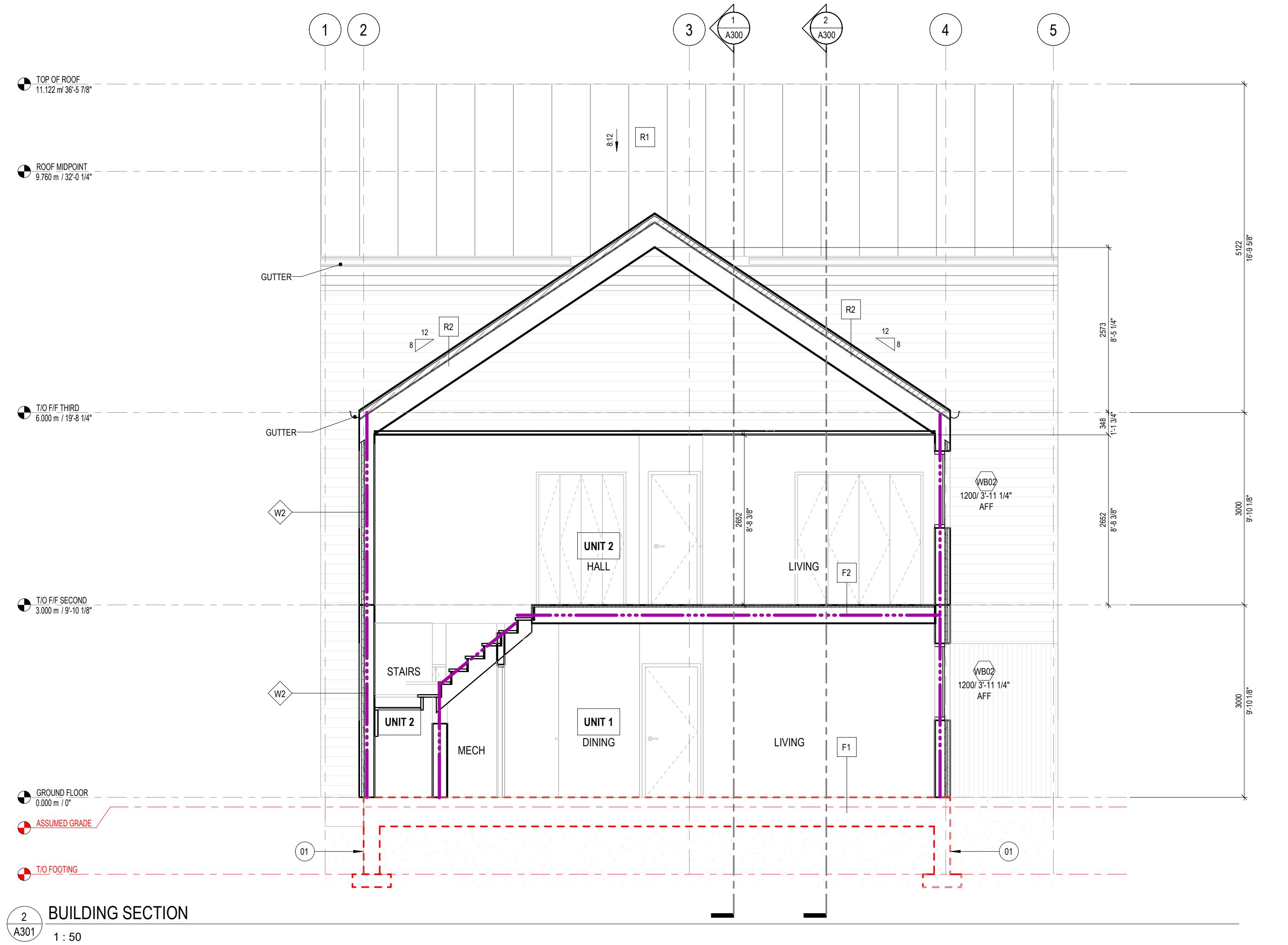
PROJECT NO: 241058

CUTTING



SECTION KEYNOTES	
01	FOUNDATIONS: ASSUMED, REFER TO STRUCTURAL DRAWINGS
FIRE SEPARATION LEGEND	
	1HR
	2HR

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PROJECT INFORMATION		
1	2025-02-21	Issued as Prototypical Drawing
NO.	DATE	DESCRIPTION

**PROJECT:
CMHC HOUSING DESIGN
CATALOGUE**

**NOT FOR PERMIT
OR CONSTRUCTION**

SECTION
SHEET TITLE:
SECTIONS

AB Sixplex 01

PROJECT NO: 241058
SCALE: 1:50

SHEET NO:
A301

CMHC HOUSING DESIGN CATALOGUE

SIXPLEX 01

STRUCTURAL DRAWINGS

STRUCTURAL DRAWING LIST	
DWG. No.	DRAWING NAME
S000	COVER SHEET
S101	TYPICAL NOTES
S102	TYPICAL DETAILS
S103	TYPICAL DETAILS
S104	TYPICAL DETAILS
S105	STRUCTURAL SPECIFICATIONS
S201	FOUNDATION PLAN
S301	FRAMING PLANS
S302	FRAMING PLANS
S303	BUILDING SECTIONS
S401	TYPICAL FOUNDATION SECTIONS
S501	TYPICAL FLOOR SECTIONS
S601	TYPICAL ROOF SECTIONS

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STRUCTURAL ABBREVIATIONS	
A.B.	ANCHOR BOLT
ALT.	ALTERNATE
ANCHS.	ANCHORS
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
B.P.L.	BASE PLATE
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BT.PL.	BEAM PLATE
C.W.	COMPLETE WITH
C.J.	CONTROL JOINT
CL.	CENTER LINE
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
DET.	DETAIL
DIA. OR Ø	DIAMETER
DIM.	DIMENSION
DJ	DOUBLE JOIST
DO	DOWN TO
DP	DEEP
DWG.	DRAWING
E.F.	EACH FACE
ELEC.	ELECTRICAL
E.S.	EACH SIDE
E.W.	EACH WAY
EA.	EACH
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
F.F.	FINISHED FLOOR
FDN.	FOUNDATION
ft	FOOT
FTG.	FOOTING
Ga	GAUGE
GB	GRADE BEAM
GH.V.	GAZED IN VENT
GRD	GRADE
HORZ.	HORIZONTAL
H.D.	HEAVY DUTY
H.D.G.	HOT DIPPED GALVANIZED
H.P.	HIGH POINT
HHT	HIGH
in.	INCH
I.D.	INSIDE DIAMETER
kN.	KILOGRAVE
kPa	KILOPASCAL
L	ANGLE
L.G.	LONG
L.P.	LOW POINT
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MAX.	MAXIMUM
MED.H.	MEDIAL
MID	MIDDLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
m	METRE
mm	MILLIMETRE
MPa	MEGAPASCAL
N.T.S.	NOT TO SCALE
No.	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PL.	PLATE
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
R.C.	REINFORCED CONCRETE
R.D.	ROOF DRAWDOWN
R.O.	ROUND OPENING
REF.	REFERENCE
REINF.	REINFORCED
REQD.	REQUIRED
RTU	ROOF TOP UNIT
SECT.	SECTION
S.G.G.	SLAB ON GRADE
S.S.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURAL
T.&B.	TOP AND BOTTOM
TO	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UIS	UNDERSIDE
VERT.	VERTICAL
W	WORKING POINT
W.P.	WELDED WIRE MESH
W.W.M.	SPACED AT

2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING
CATALOGUE

ALBERTA, CANADA

**NOT FOR PERMIT
 OR CONSTRUCTION**

SHEET TITLE:
COVER SHEET

AB Sixplex 01

PROJECT NO: 02500462
 SCALE: 1:20

SHEET NO:

S000

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GENERAL STRUCTURAL NOTES

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, LANDSCAPE, MECHANICAL AND ELECTRICAL DRAWINGS.
2. CHECK AND VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BEFORE COMMENCING WITH WORK.
3. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. TEMPORARY SUPPORT AND BRACING FOR CONSTRUCTION LOADING CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
5. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
6. GENERAL CONTRACTOR TO VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW FOUNDATION LOCATIONS DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.
7. VERIFY AND LOCATE ALL EXISTING FOUNDATIONS AND COORDINATE WITH THE LOCATIONS OF NEW FOUNDATIONS PRIOR TO COMMENCING WITH WORK.
8. ANY CLARIFICATIONS IN REGARDS TO STRUCTURAL DRAWINGS CONTACT THE ENGINEER ON RECORD.

SITE REVIEW

1. NOTIFY THE ENGINEER 48 HOURS IN ADVANCE FOR REVIEW OF THE FOLLOWING:

CONCRETE REINFORCEMENT BEFORE EACH FLOOR
WOOD FRAMING BEFORE COVERING UP

ENGINEERING SITE REVIEWS WILL BE REQUIRED IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

SHOP DRAWINGS REVIEWS WILL BE REQUIRED FOR THIRD PARTY WORK. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS AND DIMENSIONS INHERENT IN THE DESIGNS SUBMITTED BY OTHERS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

BUILDING CODE AND STANDARDS

- NATIONAL BUILDING CODE - 2023 ALBERTA EDITION
- ALBERTA INFRASTRUCTURE TECHNICAL DESIGN REQUIREMENTS, VERSION 7 (AUGUST 2022)
- CSA A23.1-14 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
- CSA A23.2 DESIGN OF STRUCTURAL CONCRETE
- CSA A304 DESIGN OF MASONRY STRUCTURES
- CSA S136 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

DESIGN LOADS

UNLESS NOTED OTHERWISE LOADS NOTED BELOW ARE SPECIFIED LOADS. LOADS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION

NOTE:

THIS PHOTOGRAPH HAS BEEN PREPARED BASED ON THE CONDITIONS SPECIFIC TO EDMONTON. ALL LOAD CONSIDERATIONS MUST BE REVIEWED AND VERIFIED BASED ON THE EXACT LOCATION OF EACH PROJECT. THE STRUCTURAL DESIGN MUST ADHERE TO THE LATEST ASSESSMENTS, BUILDING CODES, AND GEOTECHNICAL REPORTS APPLICABLE TO THE SITE.

1. LATERAL LOADS FROM WIND
 - WIND LOADS
 - REFERENCE WIND PRESSURE (q1/0) 0.36 kPa
 - REFERENCE WIND PRESSURE (q1/50) 0.45 kPa
 - INTERNAL PRESSURE CATEGORY 2
 - ULS IMPORTANCE FACTOR 1 (HIGH IMPORTANCE)
 - SLS IMPORTANCE FACTOR 0.75 (HIGH IMPORTANCE)
 - WIND INTERSTORY DRIFT LIMIT H500 (WHERE H IS THE HEIGHT OF THE STOREY)

• EARTHQUAKE LOADS: SITE CLASSIFICATION CLASS D-XD (ASSUMED, BASED ON EDMONTON AREA).

Sa (2, Xc) 0.199

Sa (1, Xc) 0.0917

Sa (2, Xc) 0.048

Sa (5, Xc) 0.024

Sa (10, Xc) 0.0146

PGA (Xc) 0.126

PGV (Xc) 0.104

SEISMIC CATEGORY SC1

ULS IMPORTANCE FACTOR 1

Pd = 3

Po = 1.7

SEISMIC INTERSTORY DEFLECTION LIMIT 0.015% (FOR POST-DISASTER)

0.02% (FOR HIGH IMPORTANCE)

0.025% (FOR NORMAL IMPORTANCE) (WHERE hs IS THE INTERSTORY HEIGHT OF THE STRUCTURE)

• LATERAL LOADS FROM WIND AND EARTHQUAKE ARE RESISTED BY SHEAR WALLS. DIAPHRAGM ACTION OF THE ROOF AND THE FLOOR PLATES IS USED TO TRANSFER LATERAL LOADS HORIZONTALLY TO THE BRACING SYSTEM.

2. FLOOR LOADS

DEAD LOAD (SPECIFIED DEAD LOADS HAVE INCORPORATED A SUPERIMPOSED DEAD LOAD OF 1.0 kPa FOR PARTITION LOADS)

MAIN FLOOR 1.7 kPa

SECOND FLOOR 1.7 kPa

LIVE LOAD

MAIN FLOOR 1.9 kPa

SECOND FLOOR 1.9 kPa

OTHER LOADS:

• FLOOR JOISTS ABOVE MECHANICAL ROOM TO BE DESIGNED FOR AN ADDITIONAL BOTTOM CHORD LIVE LOAD OF 10 psf.

• BULK HEADS 10 psf REFER TO ARCH DRAWINGS FOR LOCATIONS.

• MISCELLANEOUS LOADS SHOWN DIRECTLY ON THE PLANS.

• WATER LINE LOADS SEE THIS DRAWING.

3. ROOF LOADS

DEAD LOAD 1.2 kPa

LIVE LOAD 1.48 kPa

Snow Load 1.7 kPa

S 1.48 kPa + SNOW PILING

Rain Load 0.1 kPa

ULS IMPORTANCE FACTOR 1

SLS IMPORTANCE FACTOR 0.9

Rain 97mm (ONE DAY RAIN)

OTHER LOADS:

• ALL LOADS FOR ADDITIONAL 75 psf SNOW PILING IN ALL VALLEYS. SNOW PILING TO BE TAPERED TO REGULAR ROOF SNOW LOAD AT 3000mm EACH SIDE OF VALLEYS.

• WIND UPLIFT LOADS: TRUSS SUPPLIER TO DESIGN ROOF TRUSSES FOR WIND UPLIFT ACCORDING TO THE LATEST BUILDING CODE.

• BULK HEADS 10 psf REFER TO ARCH DRAWINGS FOR LOCATIONS.

• MISCELLANEOUS LOADS SHOWN DIRECTLY ON THE PLANS.

• WATER LINE LOADS SEE THIS DRAWING.

4. TEMPORARY CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN PARAMETERS AND SHALL NOT BE APPLIED BEFORE THE STRUCTURE HAS SUFFICIENT STRENGTH AND STABILITY.

NON-STRUCTURAL ELEMENTS

1. NON-STRUCTURAL ELEMENTS TO BE DESIGNED BY OTHERS.
2. EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - A. ARCHITECTURAL ELEMENTS SUCH AS GUARDRAILS, HANDRAILS, LADDER, FLAG POSTS, AWNINGS, CEILINGS, MILLWORK ETC.
 - B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
 - C. CLADDING, GLAZING, WINDOW MULLIONS, PARTITION WALLS.
 - D. ARCHITECTURAL, PRECAST, PRECAST CLADDING.
 - E. SIGNLIGHTS.
 - F. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS AND THEIR ATTACHMENTS.
 - G. WINDOW WASHING EQUIPMENT AND THEIR ATTACHMENTS.
 - H. ESCALATORS, ELEVATORS AND CONVEYING SYSTEMS.
 - I. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
 - J. NON STRUCTURAL CONCRETE TOPPINGS.

3. SHOP DRAWINGS FOR NON STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO ENGINEER ON RECORD (E.O.R.). THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

4. PERIMETER STEEL FRAMING ABOVE WINDOWS IN STEEL STUD WALLS HAS BEEN DESIGNED TO U240 TOTAL LOAD DEFLECTION - U.N.O.

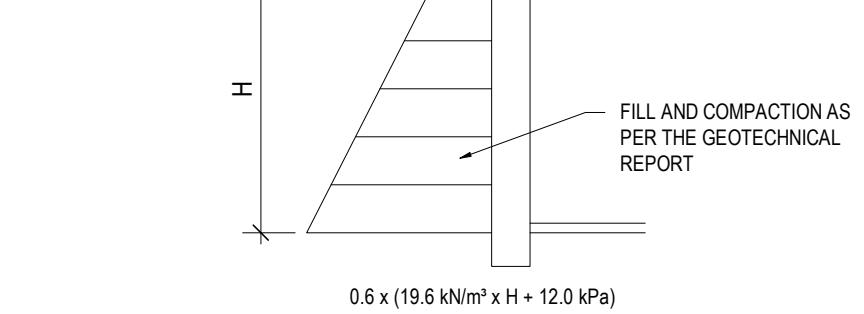
5. ROOF BEAMS AND JOISTS HAVE BEEN DESIGNED TO L240 TOTAL LOAD DEFLECTION - U.N.O.

6. FLOOR BEAMS AND JOISTS HAVE BEEN DESIGNED TO L360 TOTAL LOAD DEFLECTION - U.N.O.

7. EXPECTED SLAB ON GRADE MOVEMENT TO BE +/- 1". CONFIRM WITH GEOTECHNICAL REPORT.

GEOTECHNICAL NOTES

1. GEOTECHNICAL EVALUATION OF THE SITE WILL BE REQUIRED PRIOR TO COMMENCING WITH THE PREPARATION OF DRAWINGS AND / OR CONSTRUCTION. E.O.R. TO REVIEW THE GEOTECHNICAL REPORT AND REVISE THE FOUNDATIONS ACCORDINGLY.
2. REFER TO FOUNDATION PLAN FOR ADDITIONAL NOTES REGARDING THE APPLICABLE FOUNDATION SYSTEM.
3. LATERAL SOIL PRESSURE ON WALLS INCLUDING SURCHARGE SHALL BE AS FOLLOWS. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT.
4. ALL BACKFILL MATERIALS AND BACKFILL INSTALLATION SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER TO ENSURE COMPLIANCE WITH THE RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL REPORT.
5. EXCAVATION REQUIREMENTS SHALL BE REVIEWED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH WORK.
6. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DAMP PROOFING OR WATER STOP REQUIREMENTS.
7. FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECTURAL DRAWINGS.


(SCREW PILES) FOUNDATION

1. SCREW PILES SHALL BE DESIGNED BY THE PILING CONTRACTOR FOR THE LOADS INDICATED ON DRAWINGS AND SHALL BE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
2. PROVIDE APPROPRIATE NUMBER OF SHOP DRAWINGS FOR ALL PILES. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA RESPONSIBLE FOR THE DESIGN OF ALL PILES.
3. INSTALLATION OF PILES SHALL BE UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER RESPONSIBLE FOR PRODUCING THE GEOTECHNICAL REPORT. PROVIDE AN ACCURATE REPORT AT COMPLETION OF WORK WITH ALL PILE LOGS. FINAL REPORT SHALL BE SIGNED AND SEALED BY THE GEOTECHNICAL ENGINEER SUPERVISING THE INSTALLATION. PROVIDE SCHEDULES A, B, AND C AS REQUIRED BY THE LOCAL AUTHORITIES AND COPIES TO ENGINEER OF RECORD.
4. PILING CONTRACTOR TO ADVISE GENERAL CONTRACTOR TO THE NUMBER OF PILES REQUIRED IN ALL LOCATIONS, AS CAPS MAY BE REQUIRED. COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO TENDER CLOSING.
5. GENERAL CONTRACTOR TO ALLOW FOR PILE CAPS AS ADVISED BY PILING CONTRACTOR.
6. VERIFY AND MARK ALL UNDERGROUND LINES AND RE-ENSURE THAT NEW PILE LOCATIONS DO NOT INTERFERE WITH ANY UNDERGROUND UTILITY LINES.
7. PROVIDE MINIMUM PILE SHAFT DIAMETER OF 200mm TYP. ALL SIM. LOCATIONS.

CONCRETE FOWRK

FORM WORK TO CONFORM TO THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS.

1. REFER TO ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS OF COLUMNS, BEAMS AND WALLS. USE 19mm x 19mm FORMED CHAMFERS ON EXPOSED CORNERS UNLESS OTHERWISE SHOWN ON DRAWINGS / ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. VOID FORM MATERIALS SHALL BE DYNAVOID (40144) OR EQUIVALENT U.N.O.

3. REBAR SHALL BE FREE OF RESIDUAL CEMENT PASTE AND FORM OIL.

4. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.

CONCRETE

1. CONCRETE TO CONFORM TO THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS BEING NORMAL WEIGHT MEETING THE FOLLOWING REQUIREMENTS / THE REQUIREMENTS IN THE SPECIFICATIONS.
2. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.
3. SUPERPLASTICIZING ADMIXTURES IS PERMITTED TO ALLOW PUMPING OR IMPROVE SURFACE FINISHING OF CONCRETE. SUPERPLASTICIZING TO BE IN STRICT ACCORDANCE WITH THE CONCRETE SUPPLIER'S RECOMMENDATIONS.
4. FOR FLOOR SLABS, DESIGN THE CONCRETE MIXTURE WITH AGGREGATE GRADING AND WATER TO CEMENT RATIO THAT MINIMIZES SHRINKAGE.
5. REJECT ALL CONCRETE WHEN TIME BETWEEN BATCHING AND PLACING EXCEEDS TWO HOURS.
6. DO NOT ADD WATER TO THE CONCRETE ON SITE UNLESS AUTHORIZED BY THE CONCRETE SUPPLIER.
7. PROTECT CONCRETE FROM ADVERSE WEATHER CONDITIONS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS.
8. FOR ADDITIONAL NOTES AND REQUIREMENTS SEE SPECIFICATIONS.

CONCRETE STRENGTH AND MIX SPECIFICATIONS

EXPOSURE CLASS	USE	CEMENT TYPE	MIN. STRENGTH	SLUMP	MAX. AGG. SIZE	WC RATIO	AIR ENTRAINMENT	MAX. FLY ASH CONTENT (%)
S-2	GRADE BEAMS	HS	32 MPa @ 28 DAYS	80mm	3/4" (19mm)	0.45	4% - 7%	-
N	INTERIOR SLABS ON GRADE	GU	25 MPa @ 28 DAYS	80mm	3/4" (19mm)	0.55	NONE REQUIRED	-
C-1	STOOPS (STRUCTURAL OR ON GRADE)	GU	35 MPa @ 28 DAYS	80mm	3/4" (19mm)	0.40	5% - 8%	-
C-2	SIDEWALKS	GU	32 MPa @ 28 DAYS	80mm	3/4" (19mm)	0.40	5% - 8%	-

REINFORCEMENT FOR CONCRETE

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION 9 AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS.
2. REINFORCING STEEL: BILLET STEEL CONFORMING TO THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS. ALL REINFORCING SHALL BE GRADE 400. USE GRADE 400W WHERE WELDING IS NOTED.
3. BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS.
4. WELDING SHALL CONFORM TO THE NATIONAL BUILDING CODE - 2023 ALBERTA EDITION AND STANDARDS AS NOTED IN THE PROJECT SPECIFICATIONS.
5. MINIMUM REINFORCEMENT AS PER THE MINIMUM REQUIREMENTS NOTED BELOW.
6. REBAR SHALL BE FREE OF RESIDUAL CEMENT PASTE AND FORM OIL.
7. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW THAT RESULTS IN THE GREATER AMOUNT OF COVER.

CONCRETE COVER SCHEDULE

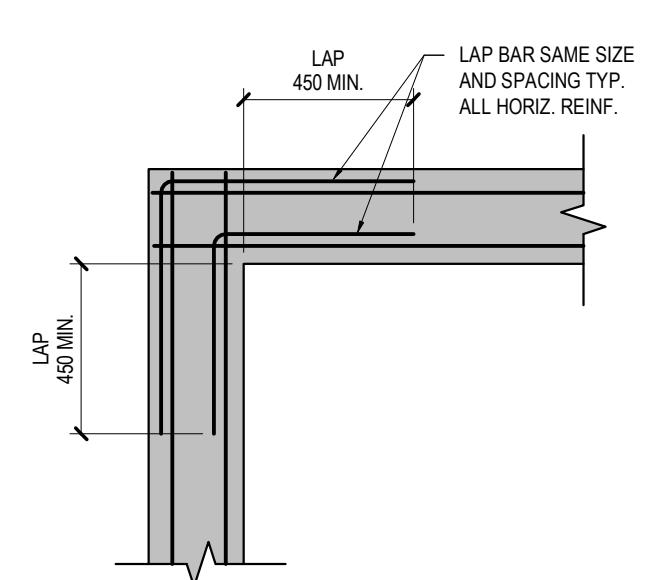
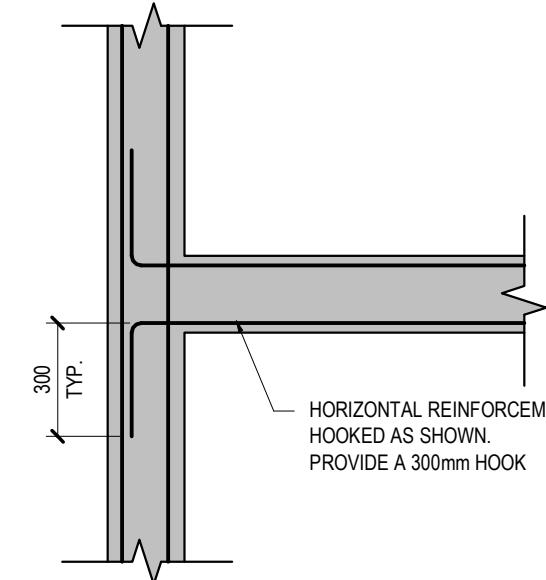
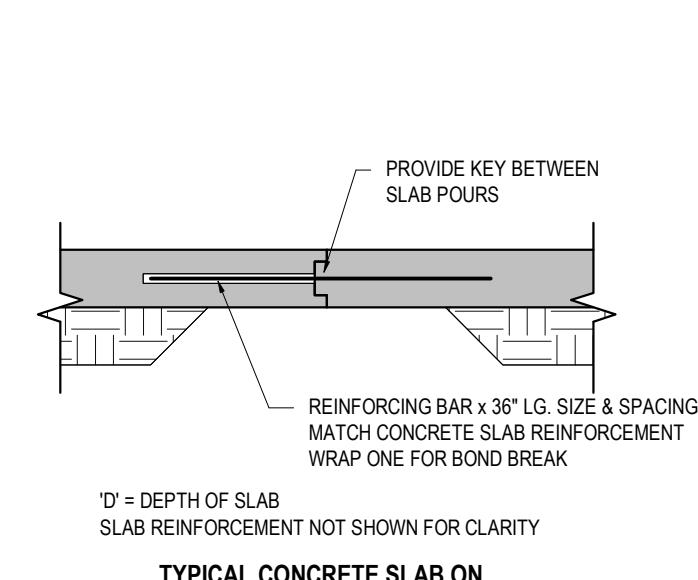
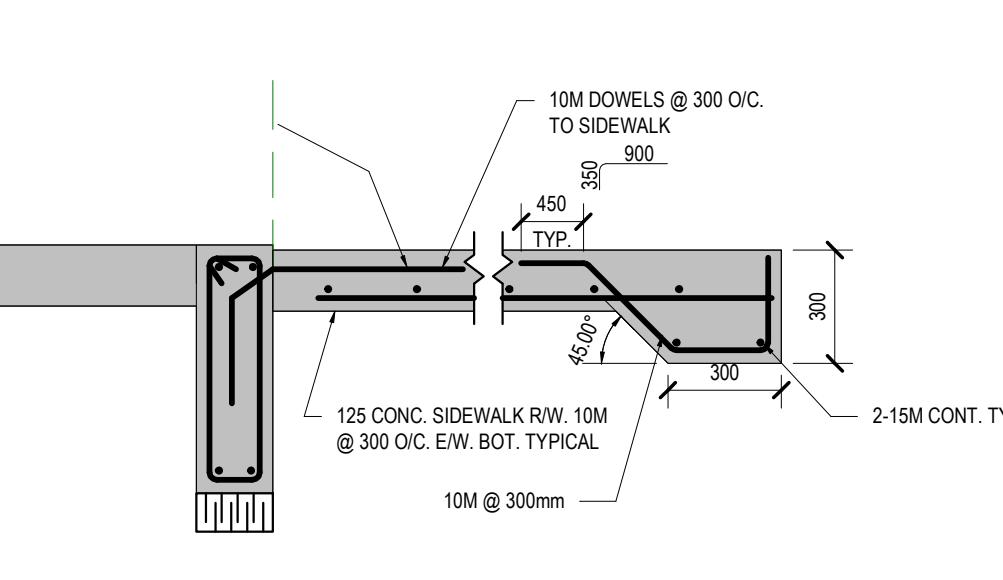
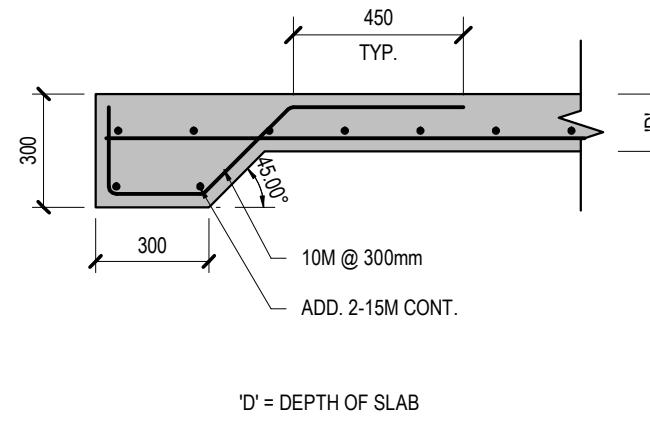
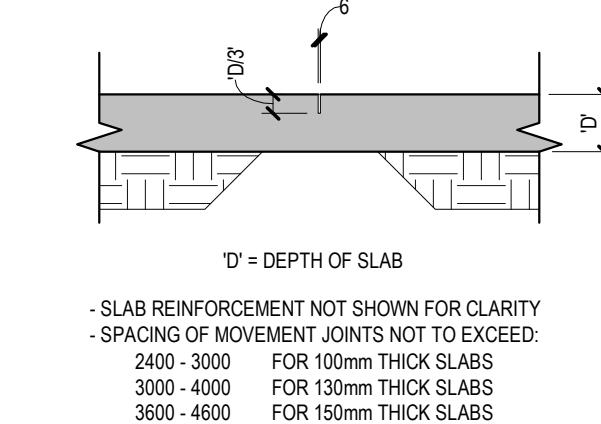
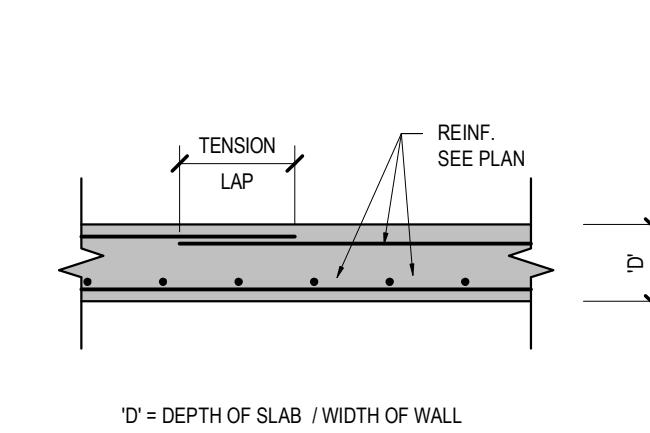
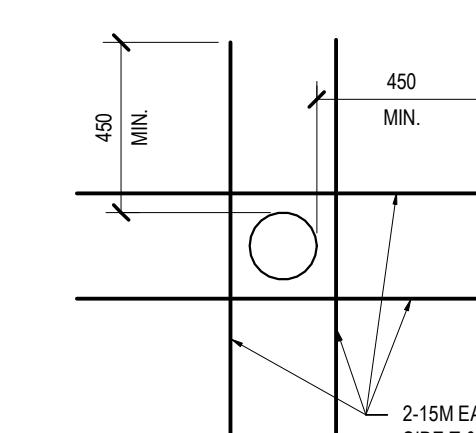
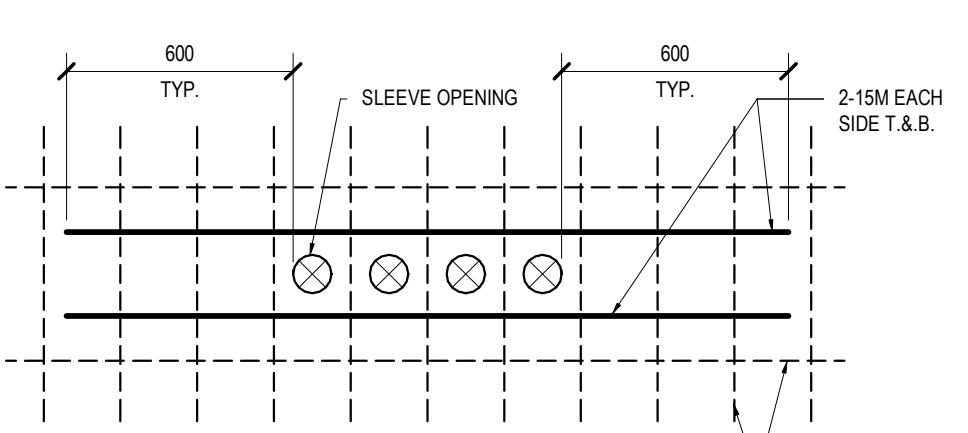
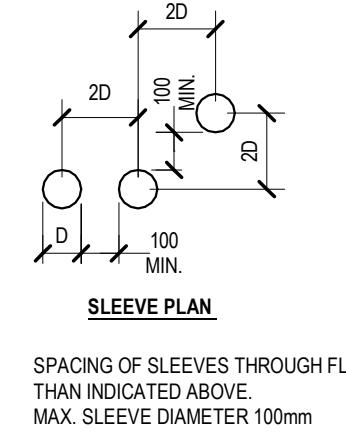
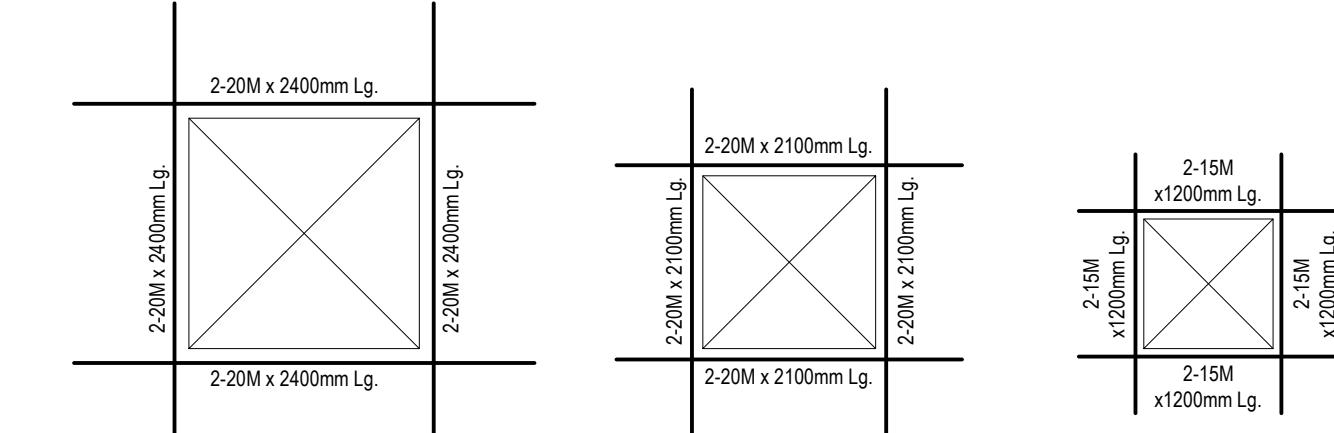
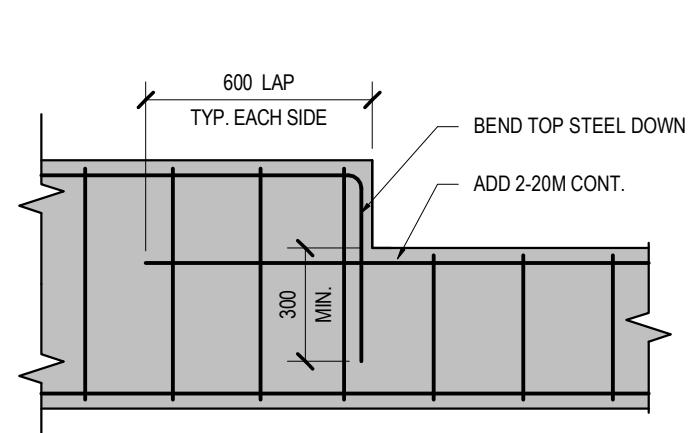
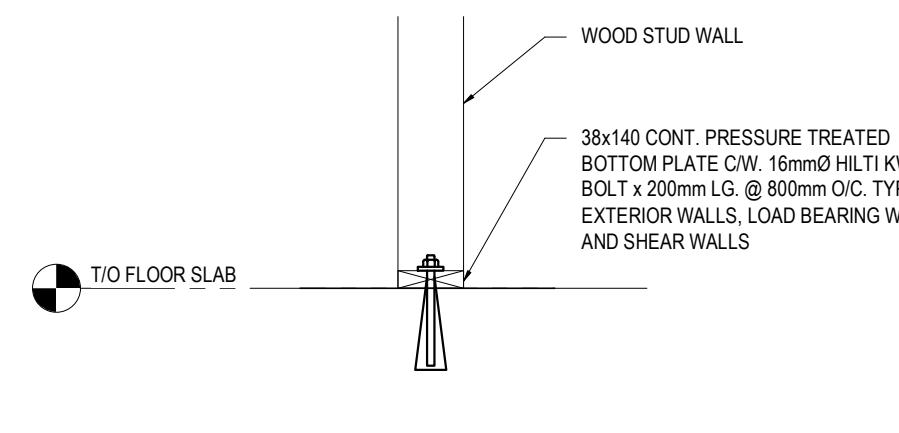
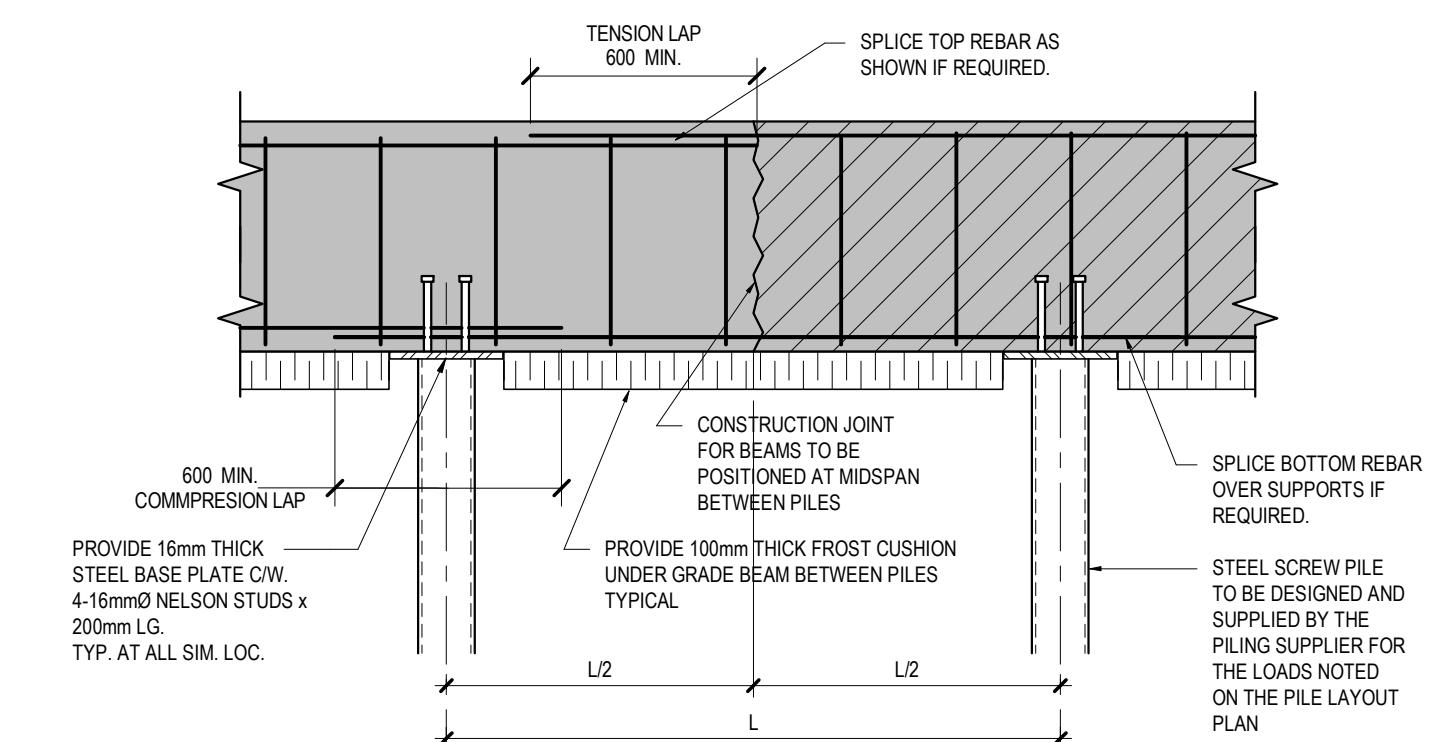
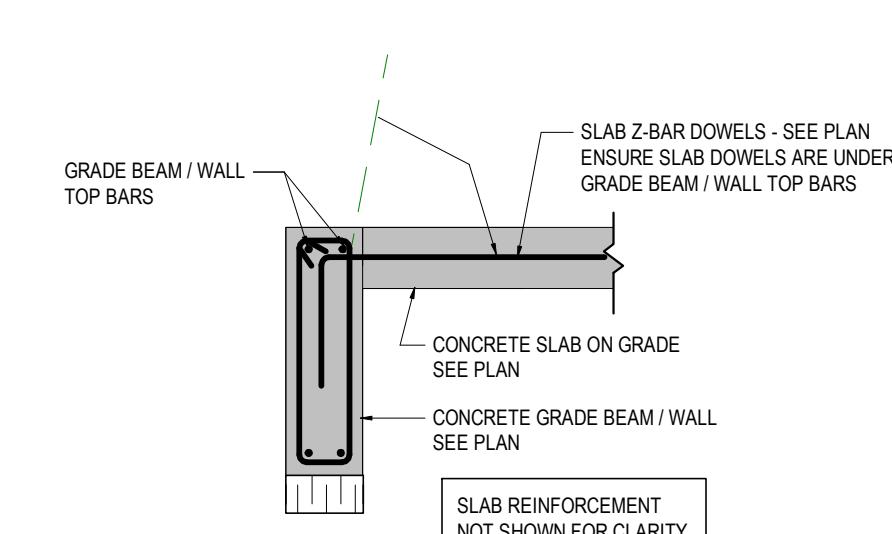
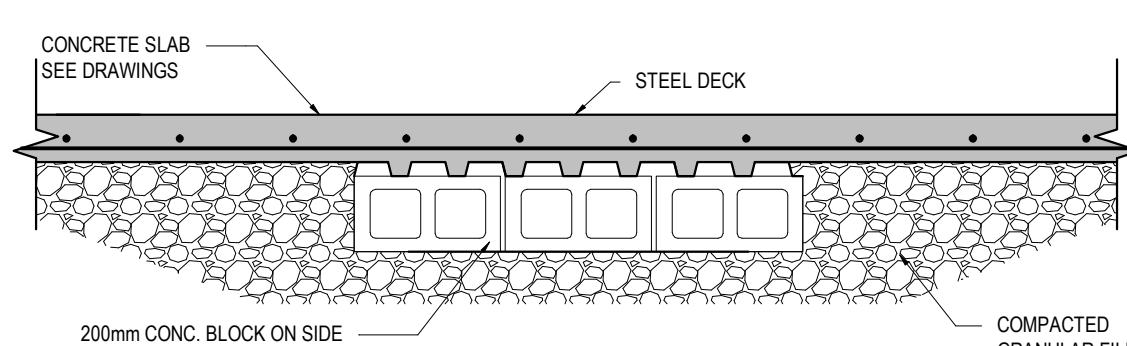
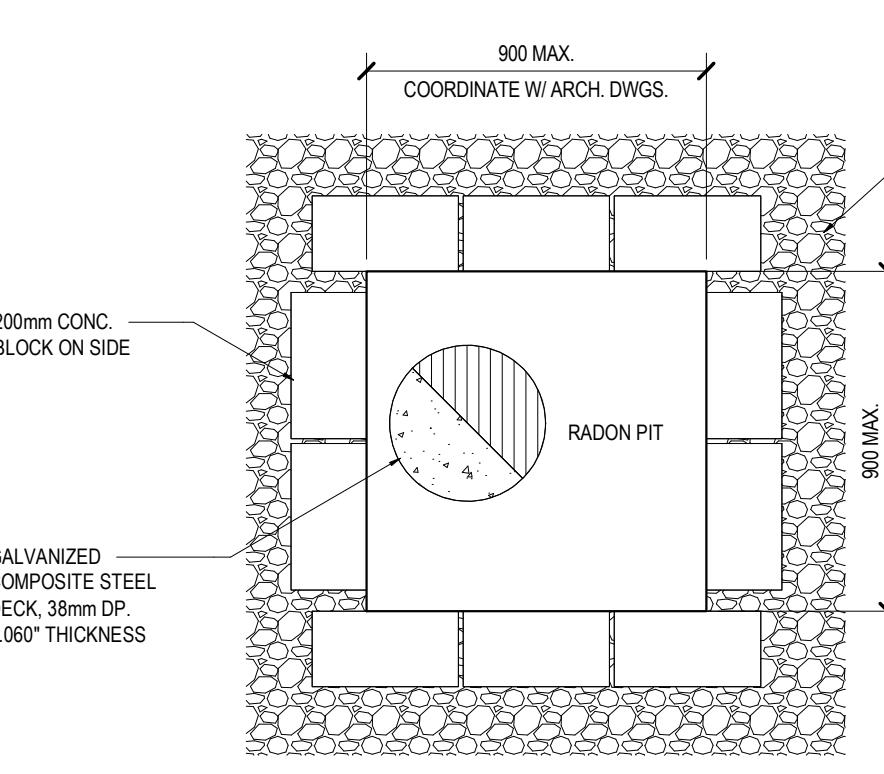
	FIRE RESISTANCE RATING (SEE ARCHITECTURAL DRAWINGS) UP TO
GRADE BEAMS	50mm
SLAB ON GRADE	
SINGLE-LAYER REINFORCEMENT	PLACE REINFORCEMENT AT MID DEPTH

WOOD FRAMING

1. ALL WORK TO BE IN ACCORDANCE WITH ABC 2023, CSA 086-19 AND REFERENCED DOCUMENTS.
2. LUM

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TYPICAL LAPPING AT CORNERS

**TYPICAL CORNER BARS AT
INTERSECTING WALLS AND GRADE BEAMS**

**TYPICAL CONCRETE SLAB ON
GRADE POUR BREAK (FLOOR JOINT)**

TYPICAL CONCRETE SIDEWALK DETAIL

TYPICAL CONCRETE SLAB THICKENING

**TYPICAL SAWCUT FOR CONCRETE
SLAB ON GRADE**

**TYPICAL REINFORCEMENT LAP IN
WALLS AND SLABS UNLESS NOTED
OTHERWISE**

**REINFORCEMENT AROUND SLEEVES WITH DIAMETERS
LARGER THAN 100mm**

**ADDITIONAL SLAB REINFORCEMENT
WITH FOUR OR MORE SLEEVES**

**TYPICAL SPACING OF SLEEVES IN / THROUGH
SLABS, BEAMS AND CONCRETE WALLS**

**TYPICAL REINFORCEMENT FOR OPENINGS IN SLABS
AND / OR CONCRETE WALLS**

CHANGE IN GRADE BEAM HEIGHT DETAIL

**TYP. WOOD STUD WALL TO
CONCRETE DETAIL**

TYPICAL GRADE BEAM SPLICE DETAIL

TYPICAL SLAB ON GRADE TO GRADE BEAM / WALL Z-BAR DOWEL

SECTION VIEW

PLAN VIEW
TYPICAL RADON PIT DETAIL

1. COORDINATE LOCATION TO AVOID HIGHLY LOADED AREAS (EG. RACKING, HIGH TRAFFIC ZONES, PONT LOADS)
2. SEE ARCH. DWGS. FOR NUMBER, EXTENT AND LOCATIONS OF PITS

2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
**CMHC HOUSING
CATALOGUE**

ALBERTA, CANADA

**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE:
TYPICAL DETAILS

AB Sixplex 01

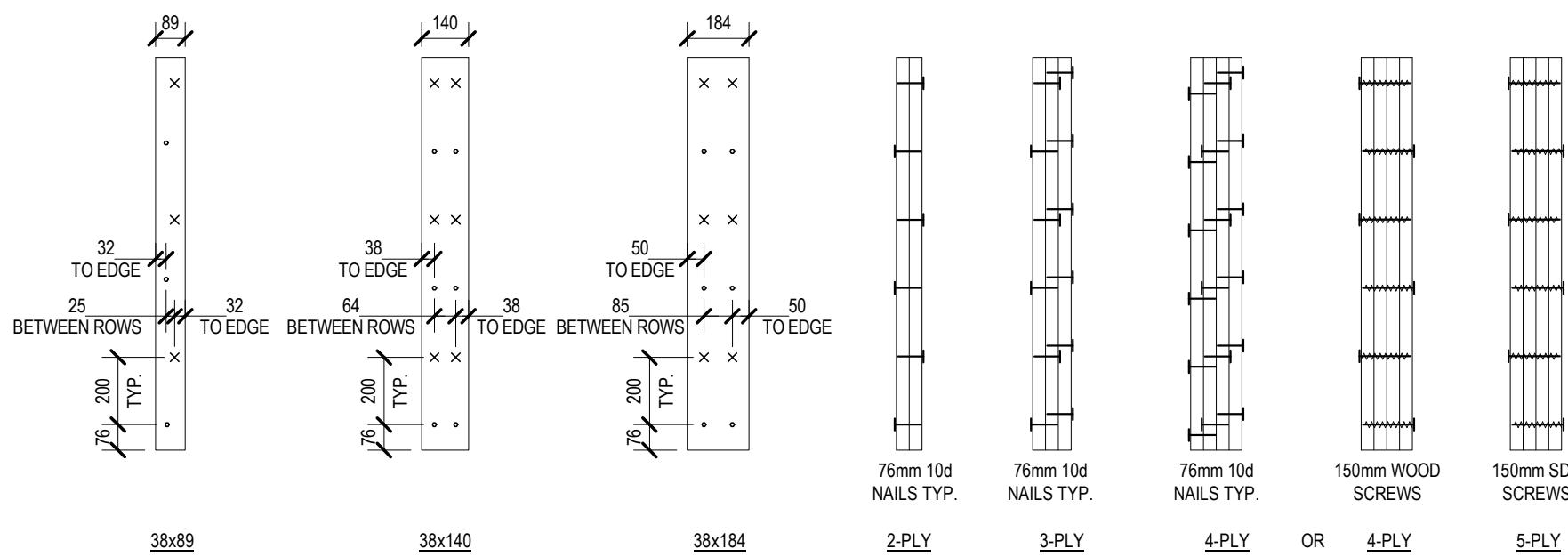
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SCALE: 1:20

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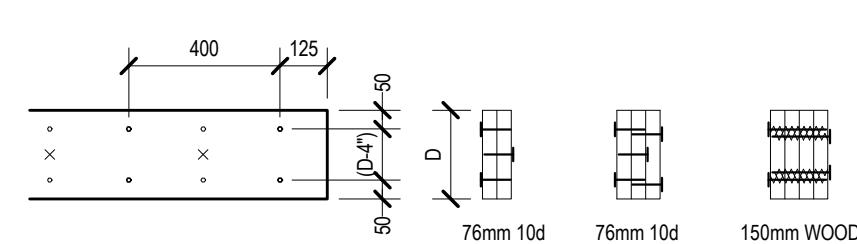
S102

DISCLAIMER

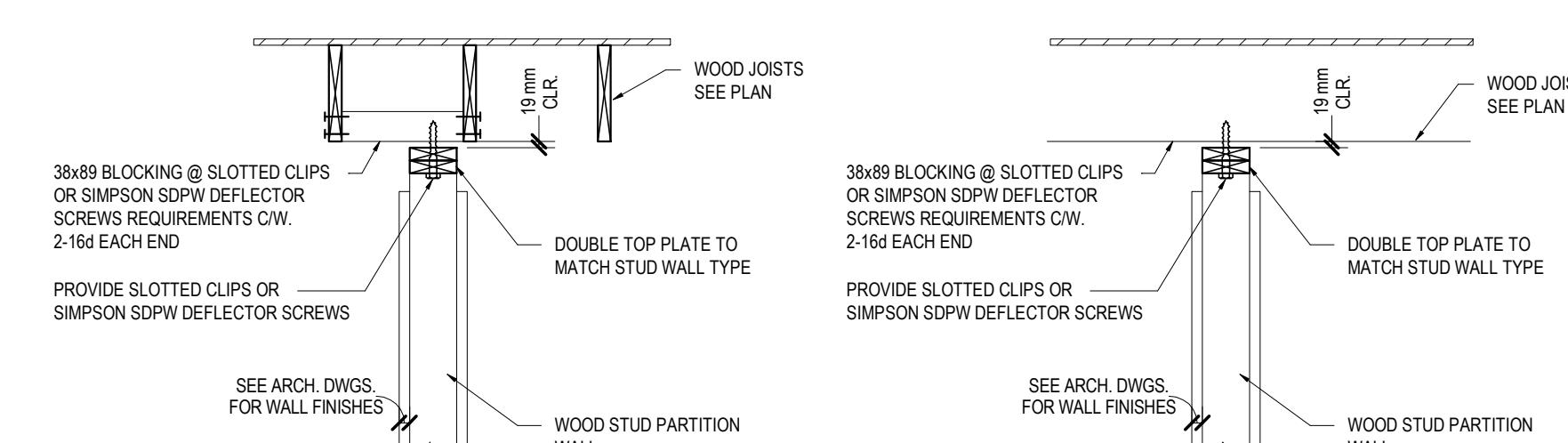
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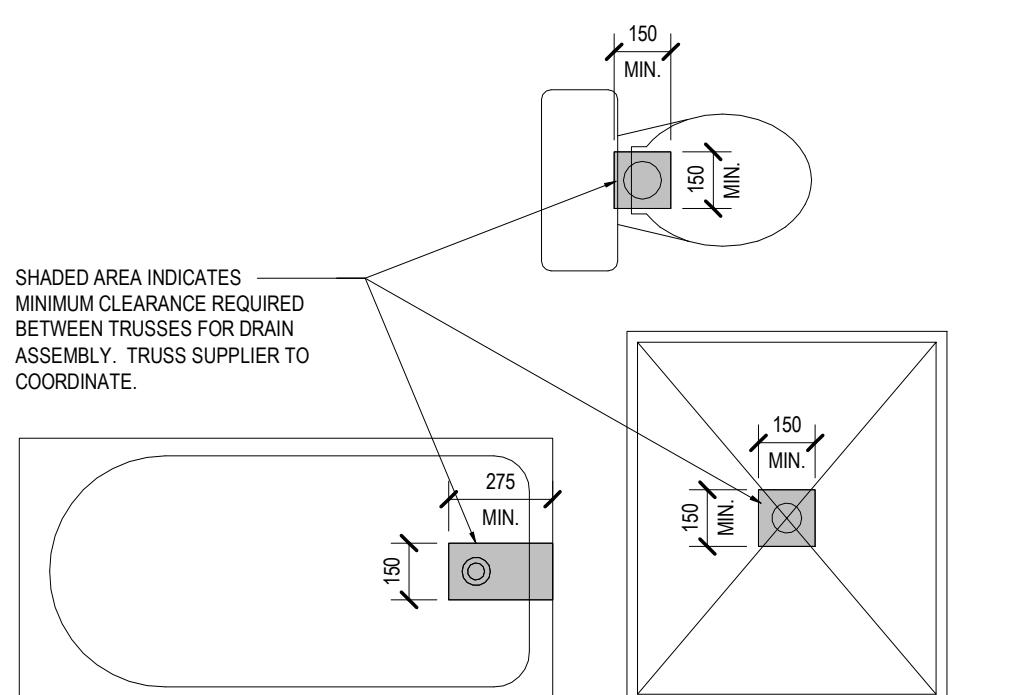
BUILT-UP COLUMN NAILING PATTERN
1. BUILT-UP STRUCTURAL COMPOSITE LUMBER (LVL, LSL) COLUMNS TO BE FASTENED AS PER MANUFACTURER'S REQUIREMENTS



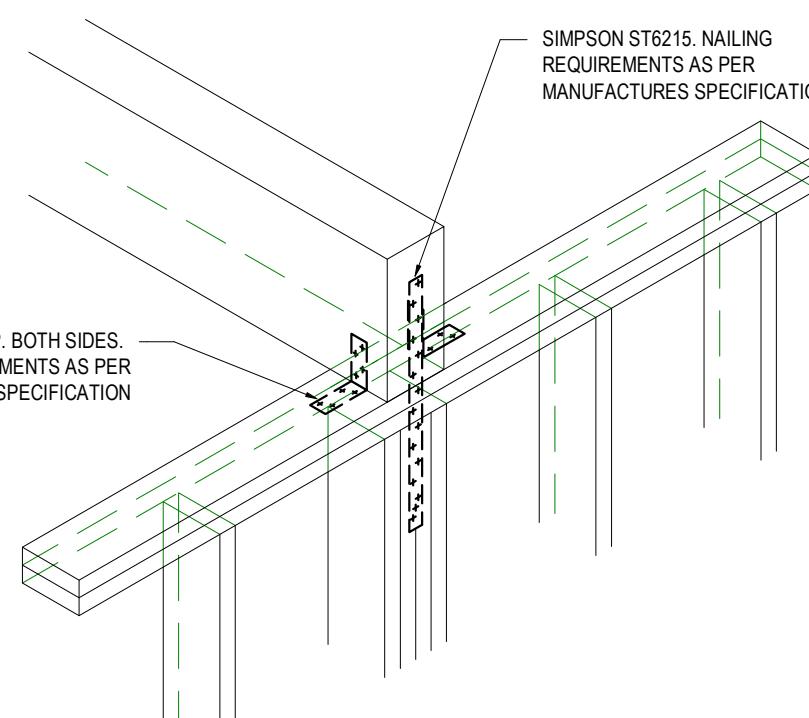
BUILT-UP BEAM NAILING PATTERN
1. BUILT-UP STRUCTURAL COMPOSITE LUMBER (LVL, LSL) COLUMNS TO BE FASTENED AS PER MANUFACTURER'S REQUIREMENTS



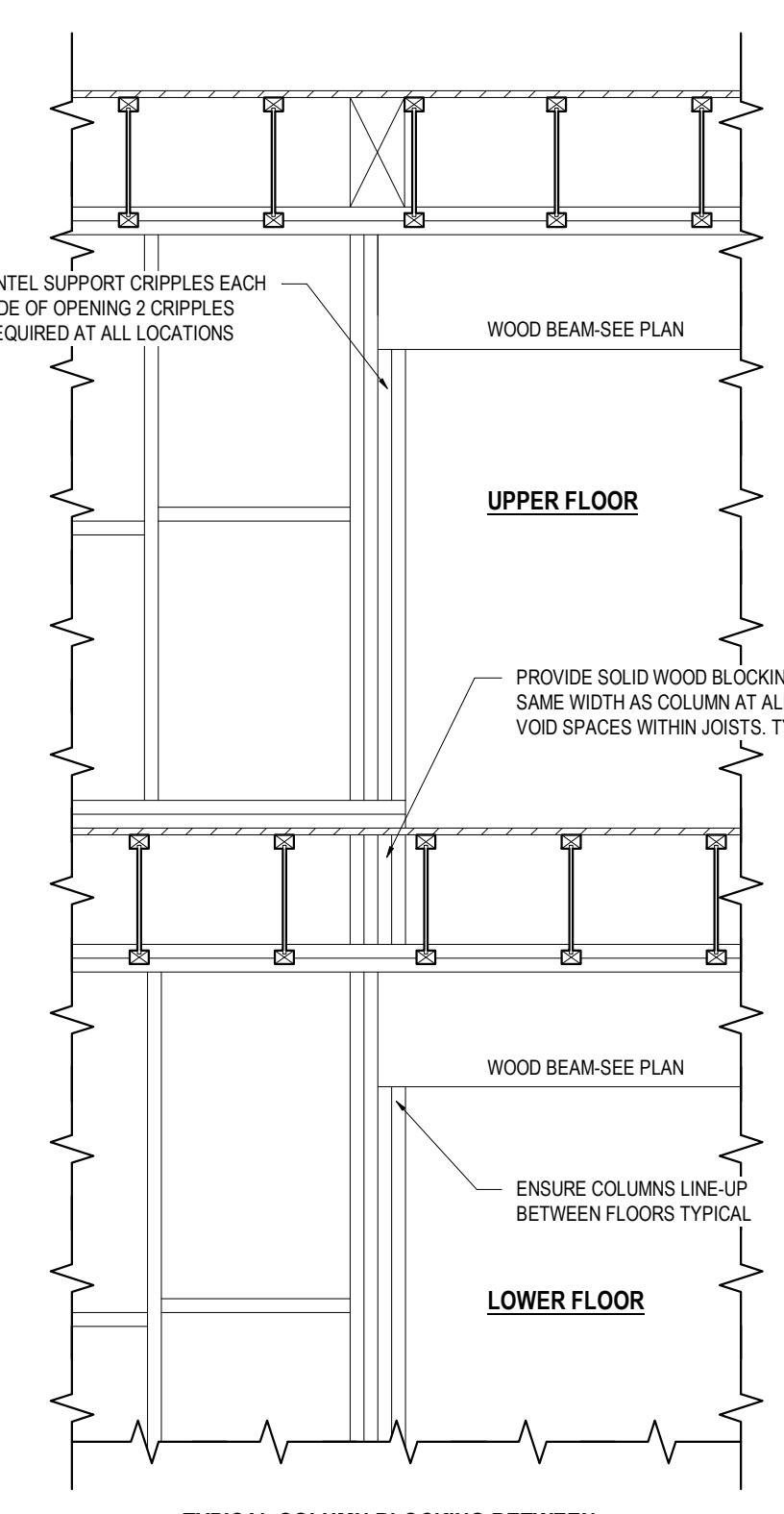
WOOD STUD PARTITION WALL DETAIL



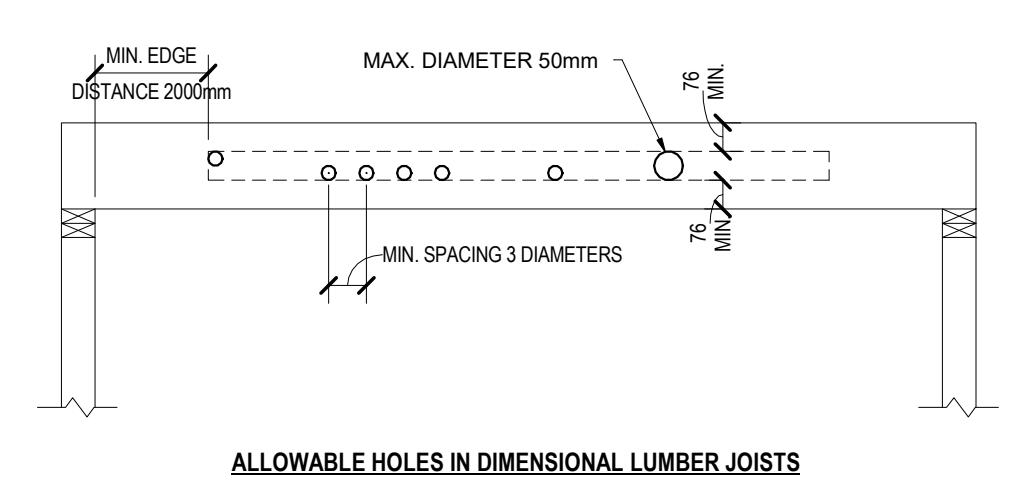
FRAMING REQUIREMENTS UNDER TUBS AND SHOWERS
(SEE ARCHITECTURAL DRAWINGS FOR TUB AND SHOWER LOCATIONS)



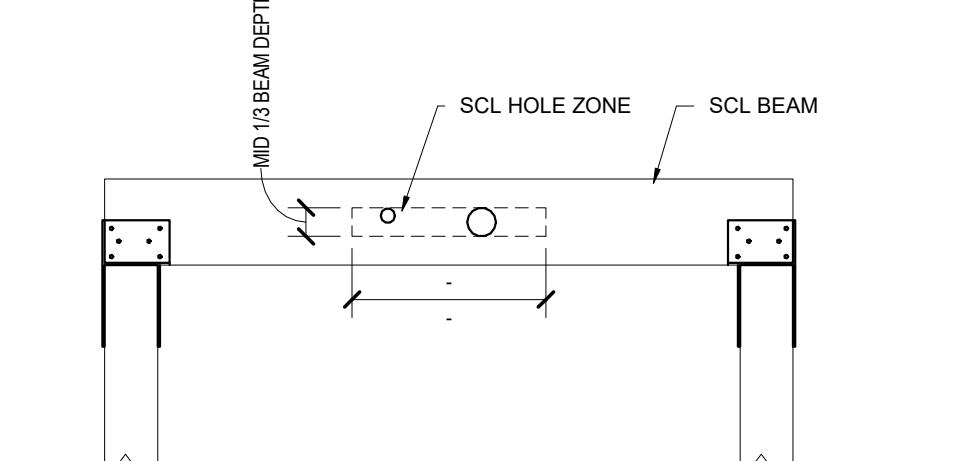
TYPICAL WOOD BEAM TO WOOD COLUMN WITHIN STUD WALL CONNECTION (WALL PERPENDICULAR TO BEAM)



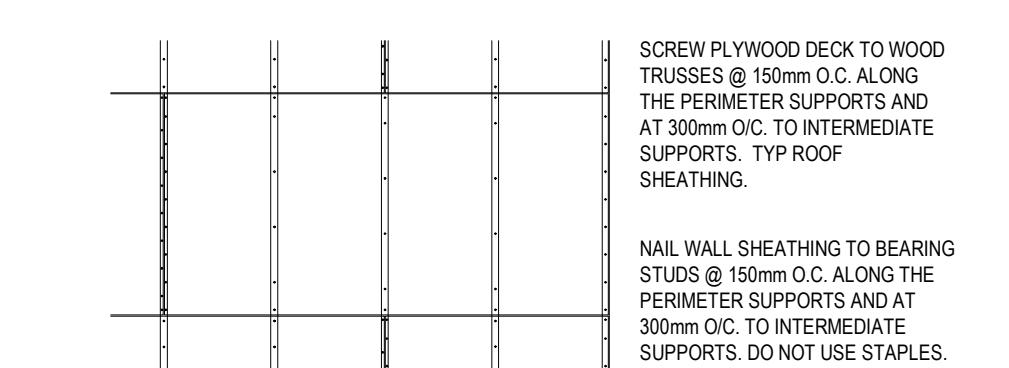
TYPICAL COLUMN BLOCKING BETWEEN FLOORS



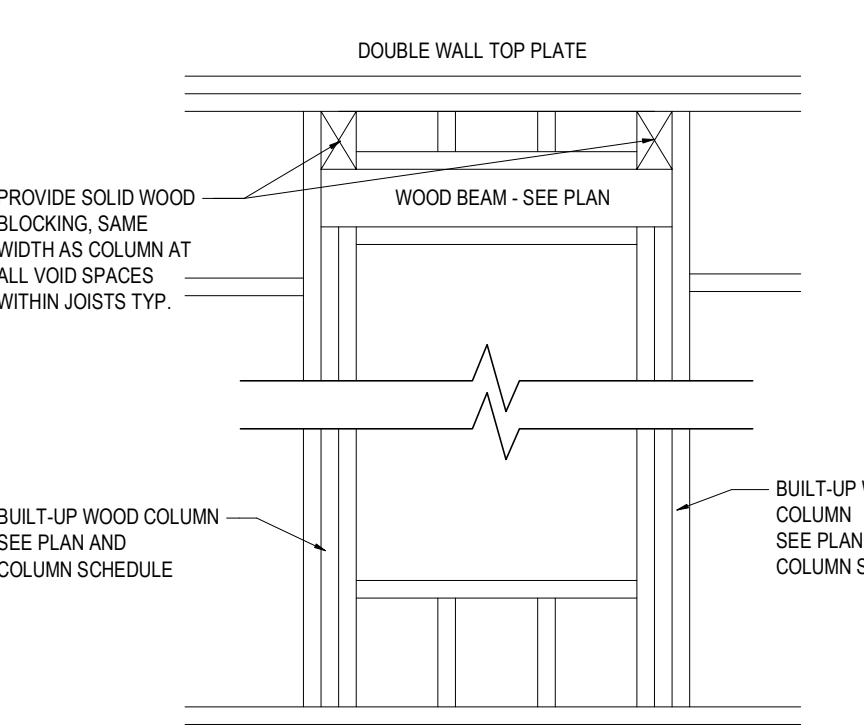
ALLOWABLE HOLES IN DIMENSIONAL LUMBER JOISTS



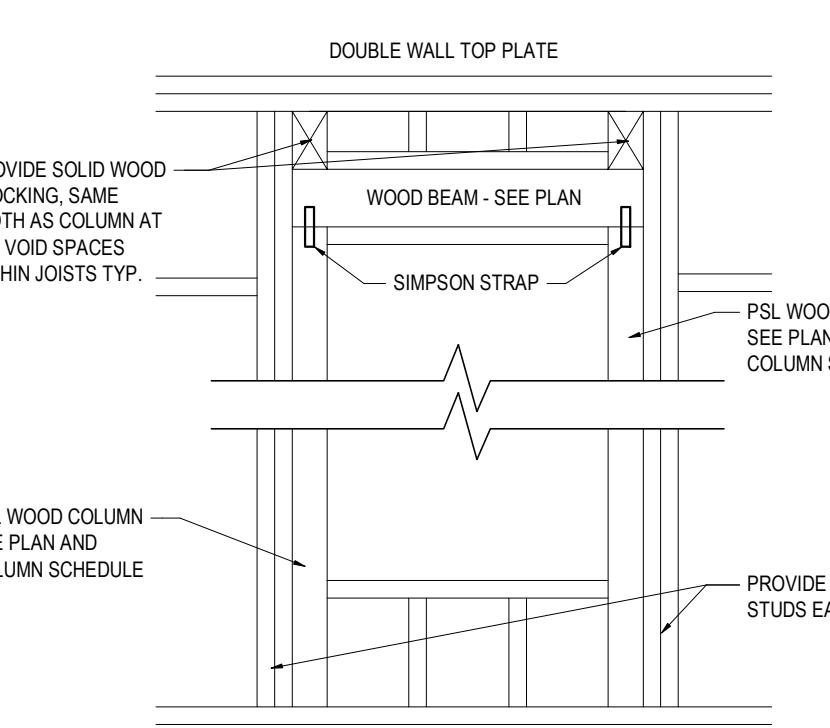
NOTES:
1. ALLOWED HOLE ZONE SUITABLE FOR LVL BEAM WITH UNIFORM LOAD ONLY
2. ROUND HOLE
3. HOLE IN CANTILEVER
4. NO HOLES IN LVL BEAM IN PLANK ORIENTATION
5. MAXIMUM ROUND HOLE SIZE: 50mm DIA.



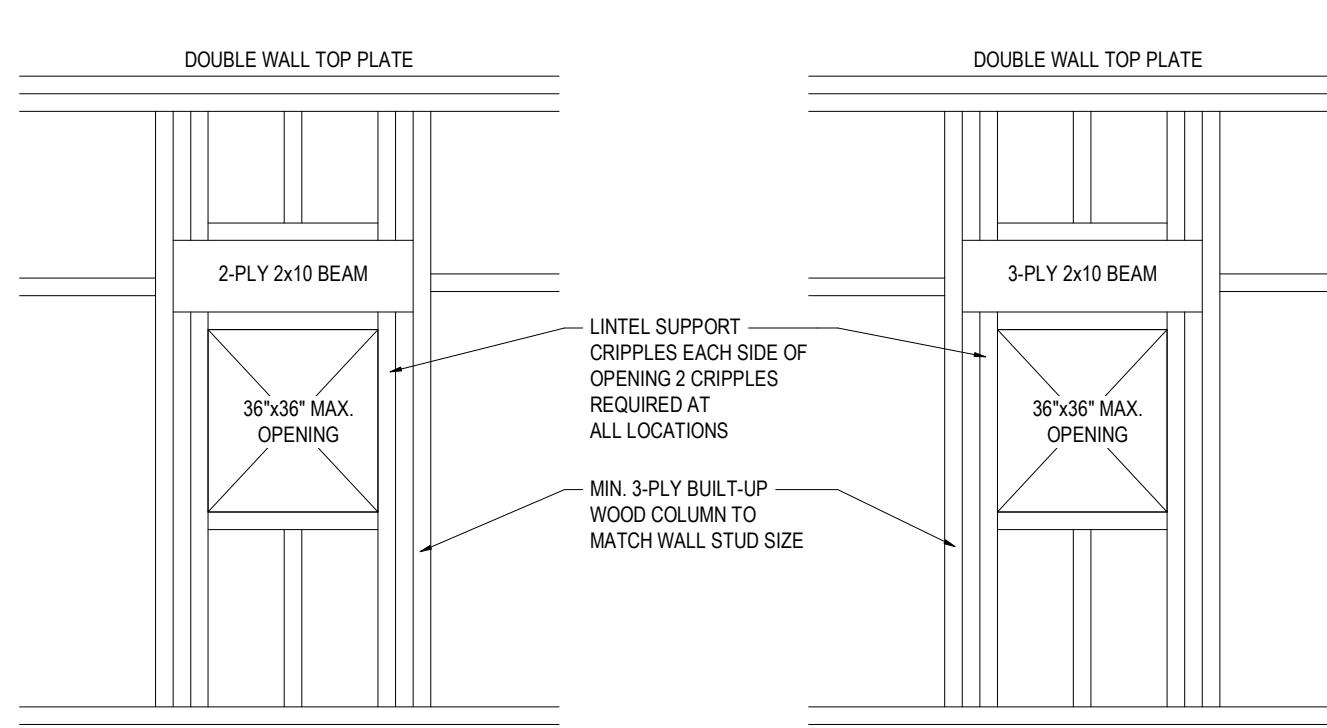
PLYWOOD SHEATHING NAILING REQUIREMENTS



TYPICAL OPENING AT EXTERIOR WINDOW OR PATIO AT MAIN FLOOR (BUILT-UP COLUMN)
• 2 CRIPPLES
• COORDINATE SIZE AND LOCATION(S) OF OPENING WITH ARCHITECTURAL DRAWINGS TYPICAL

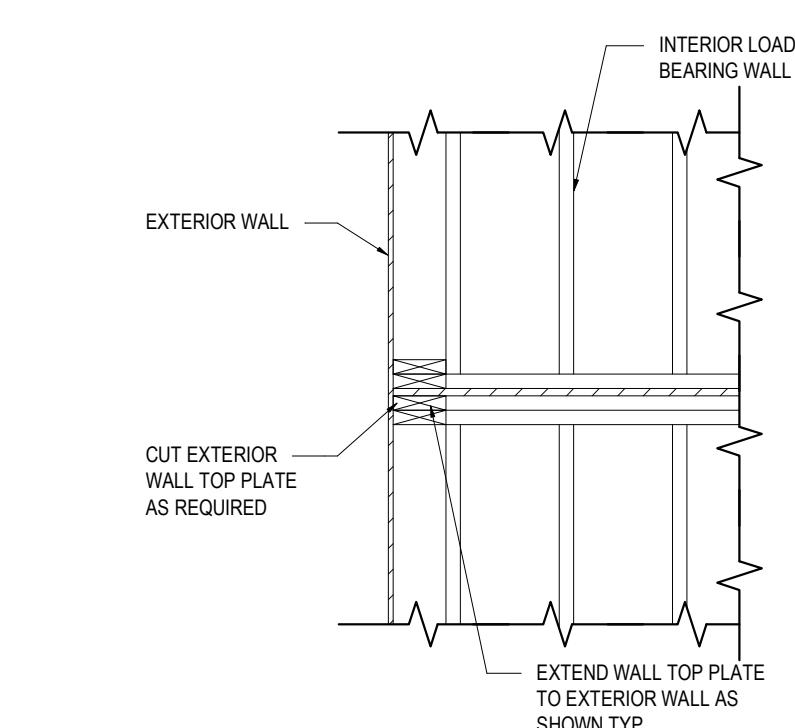


TYPICAL OPENING AT EXTERIOR WINDOW OR PATIO AT MAIN FLOOR (PSL COLUMN)
• COORDINATE SIZE AND LOCATION(S) OF OPENING WITH ARCHITECTURAL DRAWINGS TYPICAL

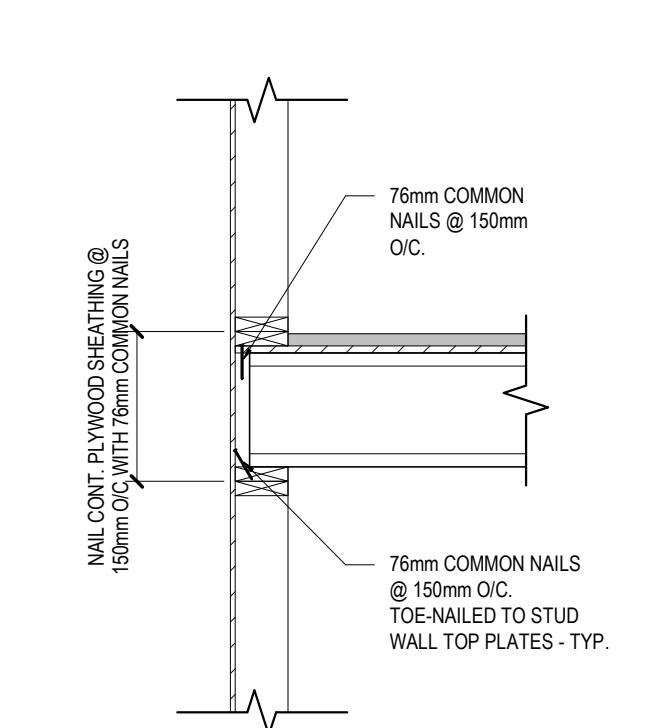


MECHANICAL DUCT OPENINGS IN 2x4 WALLS
• COORDINATE SIZE AND LOCATIONS(S) OF OPENING WITH MECHANICAL DRAWINGS TYPICAL

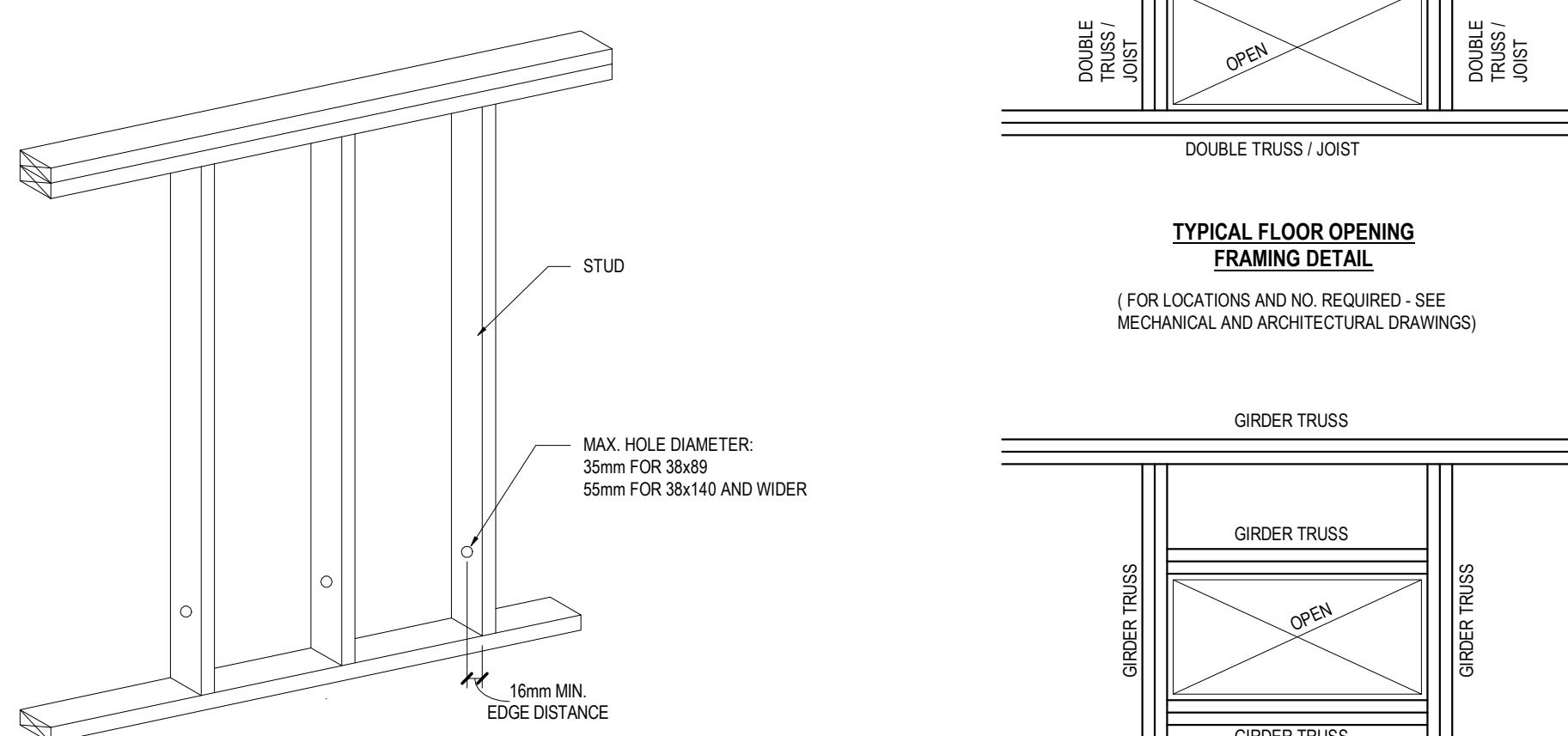
MECHANICAL DUCT OPENINGS IN 2x6 WALLS
• COORDINATE SIZE AND LOCATIONS(S) OF OPENING WITH MECHANICAL DRAWINGS TYPICAL



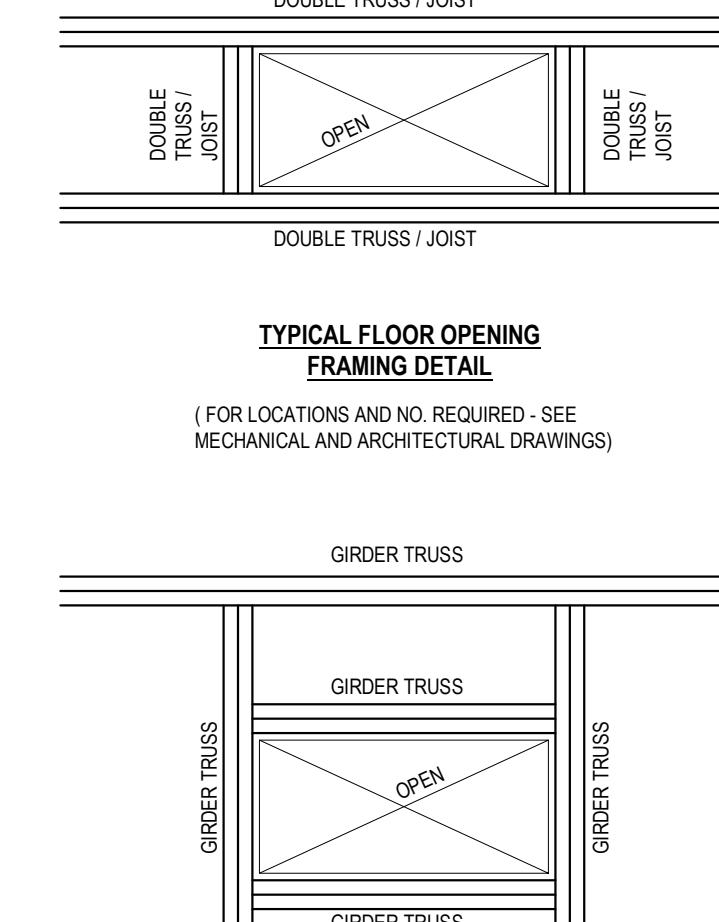
INTERIOR LOAD BEARING WALL TO EXTERIOR WALL DETAIL



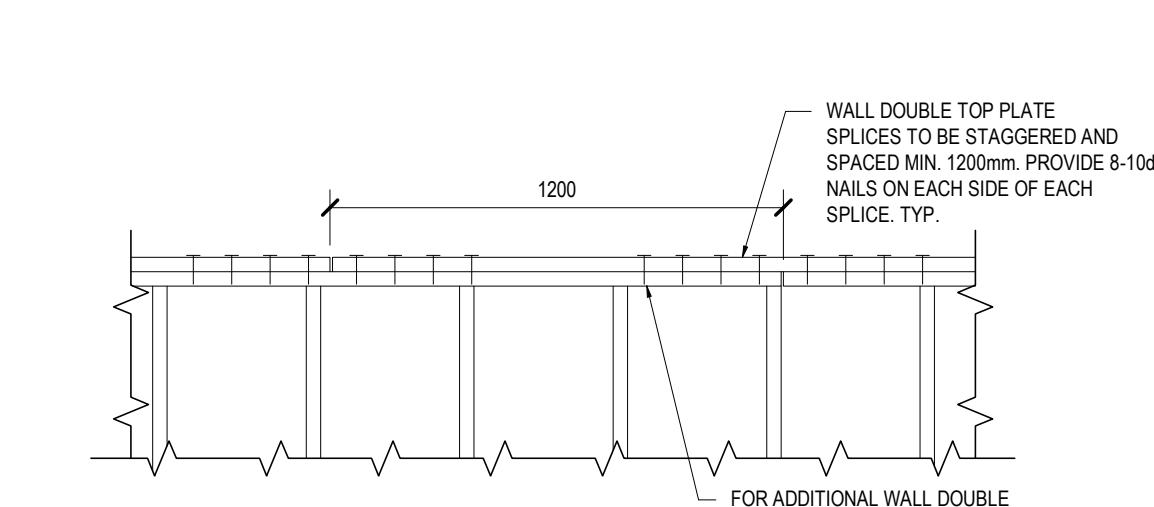
NAILING REQUIREMENTS FOR WOOD I-JOISTS AT EXTERIOR WALLS



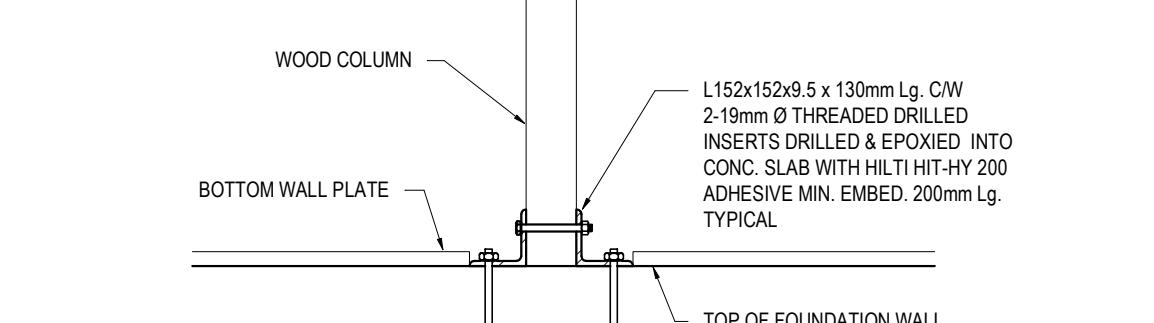
DRILLING DETAIL FOR WALL STUDS



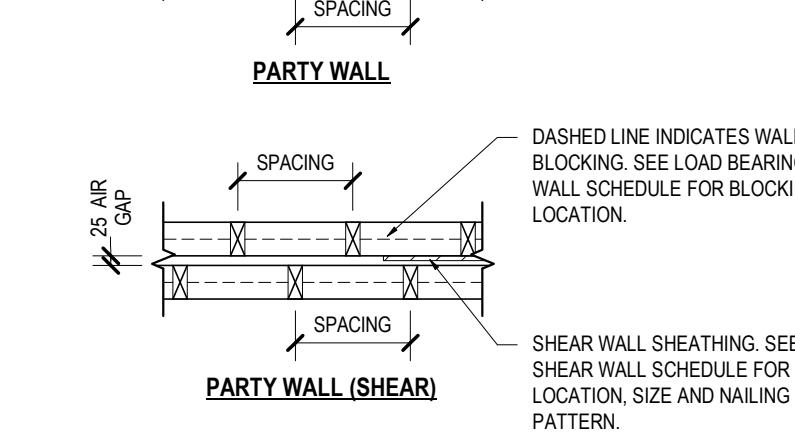
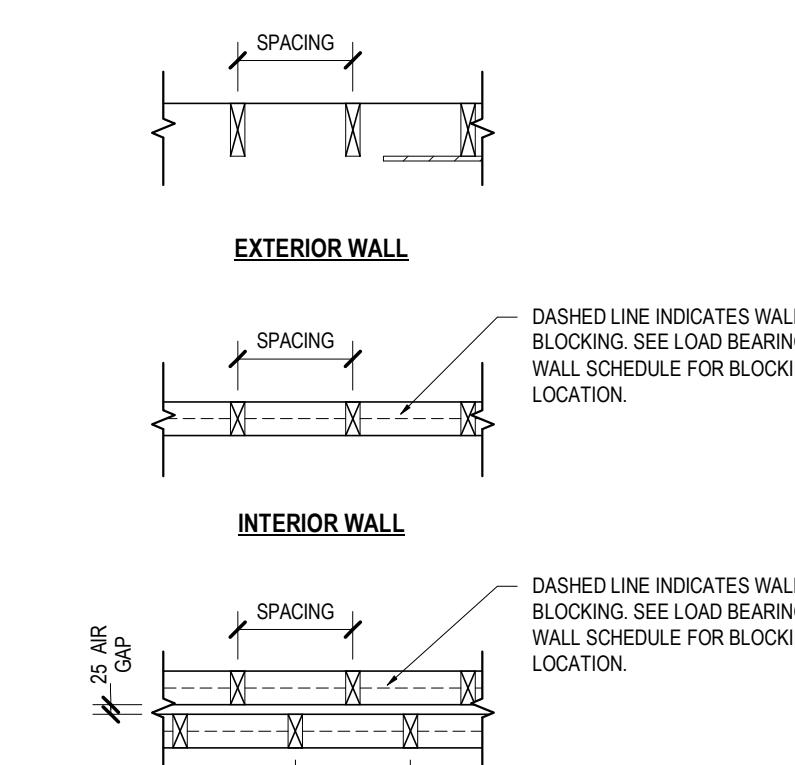
TYPICAL FLOOR OPENING FRAMING DETAIL
(FOR LOCATIONS AND NO. REQUIRED - SEE MECHANICAL AND ARCHITECTURAL DRAWINGS)



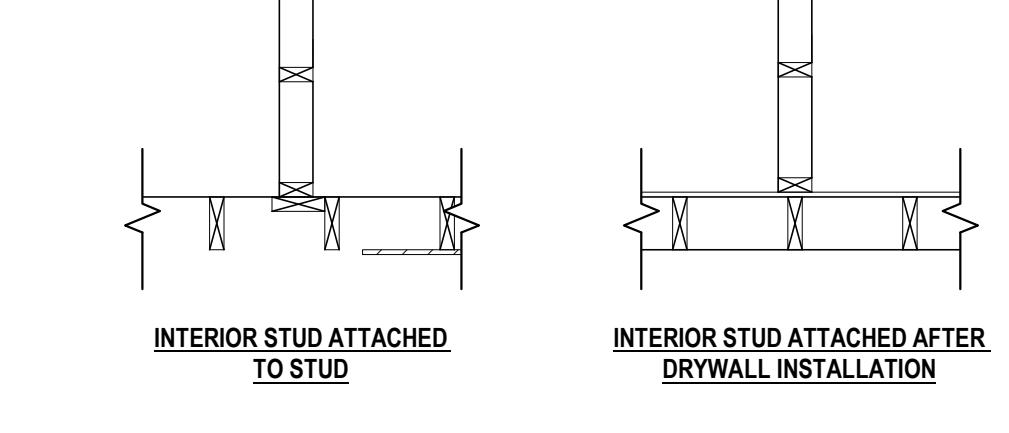
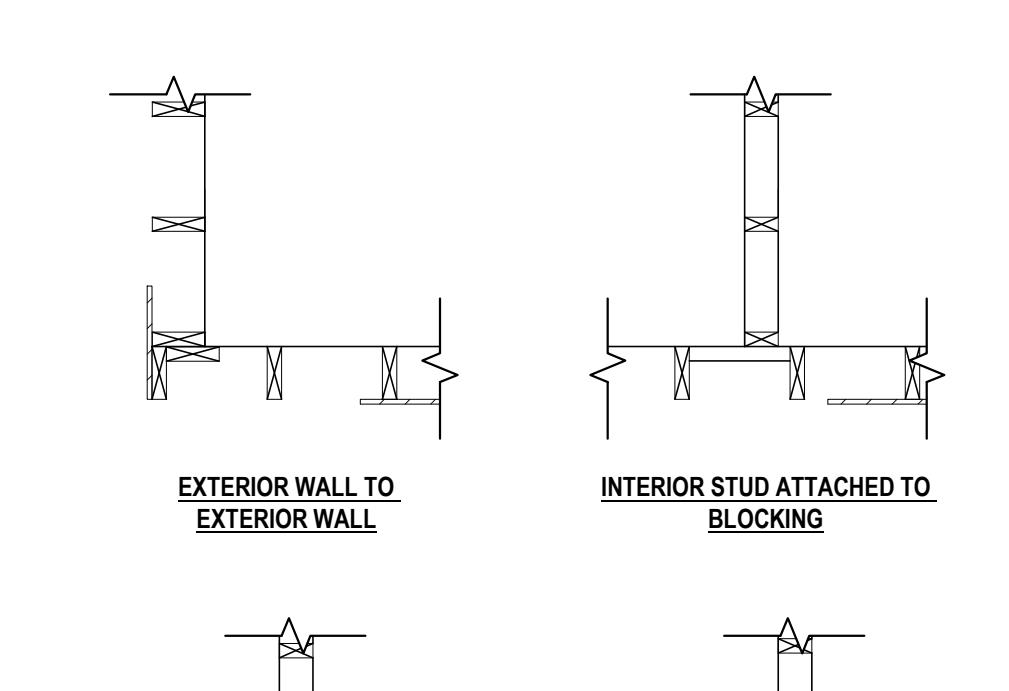
TYPICAL WALL TOP PLATE SPLICING CONNECTION



WOOD COLUMN TO FOUNDATION WALL CONNECTION (EXCEPT BUILT-UP COLUMNS)



LOAD-BEARING WALL CONSTRUCTION DETAILS
1. SEE FRAMING NAILING SCHEDULE AND / OR SHEAR WALL SCHEDULE FOR NAILING REQUIREMENTS



WALL TO WALL CONNECTION DETAILS

2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:

TYPICAL DETAILS

AB Sixplex 01

PROJECT NO: 02500462
SCALE: 1:20

SHEET NO:

S103



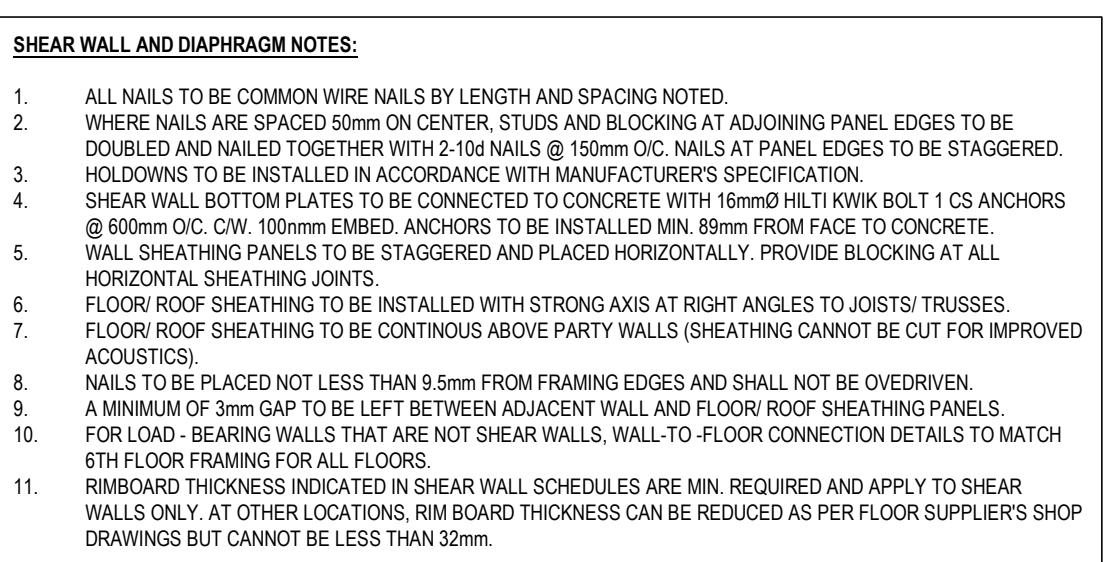
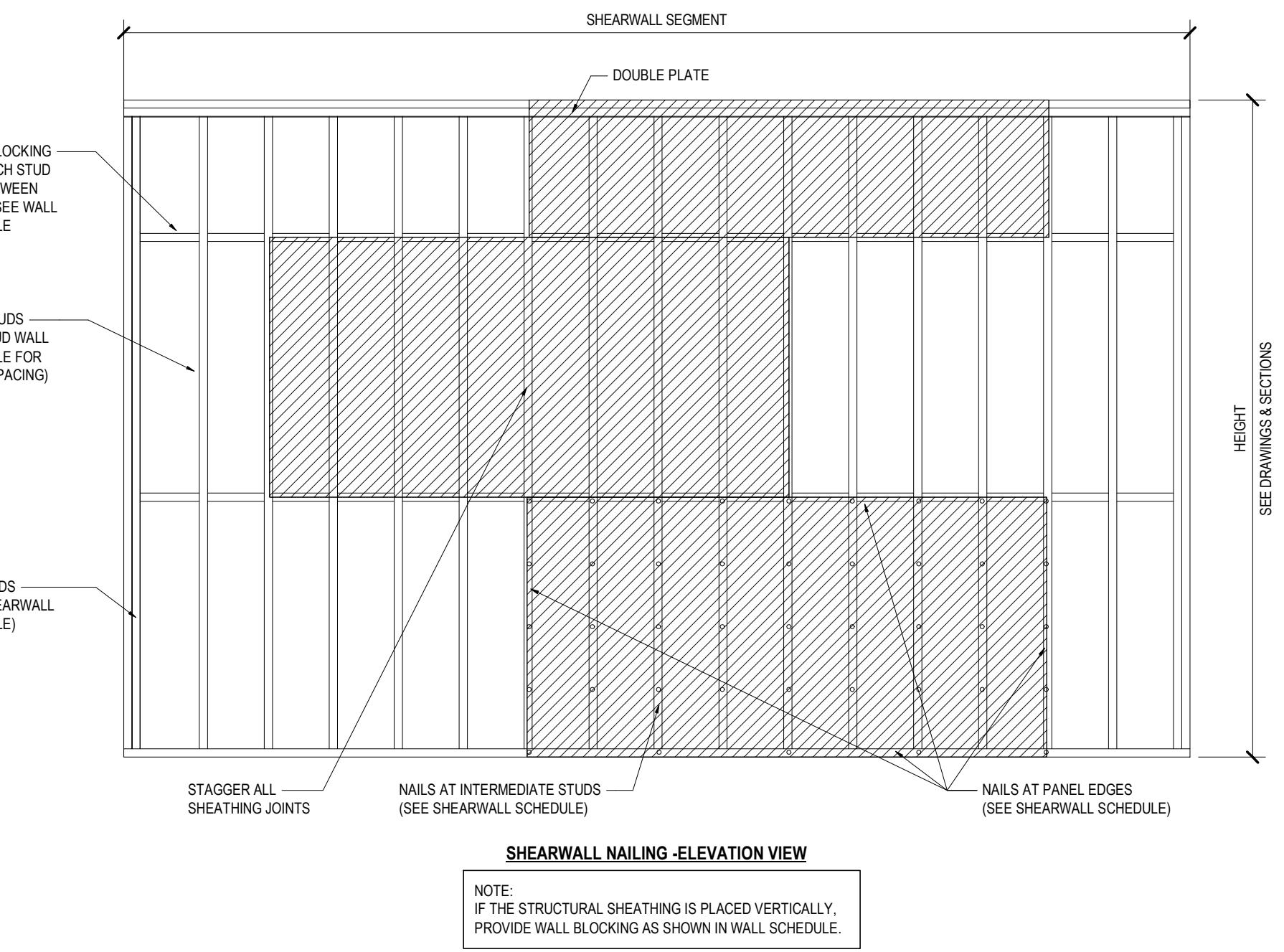
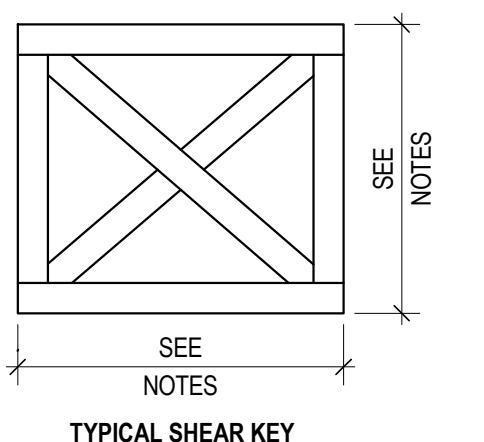
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MINIMUM TRUSS/JOIST SQUASH BLOCKING TABLE	
LEVEL	MINIMUM REQUIREMENTS
2ND FLOOR FRAMING	ONE EACH SIDE
3RD FLOOR FRAMING	ONE EACH SIDE
4TH FLOOR FRAMING	ONE PER TRUSS/JOIST
ROOF FRAMING	NONE

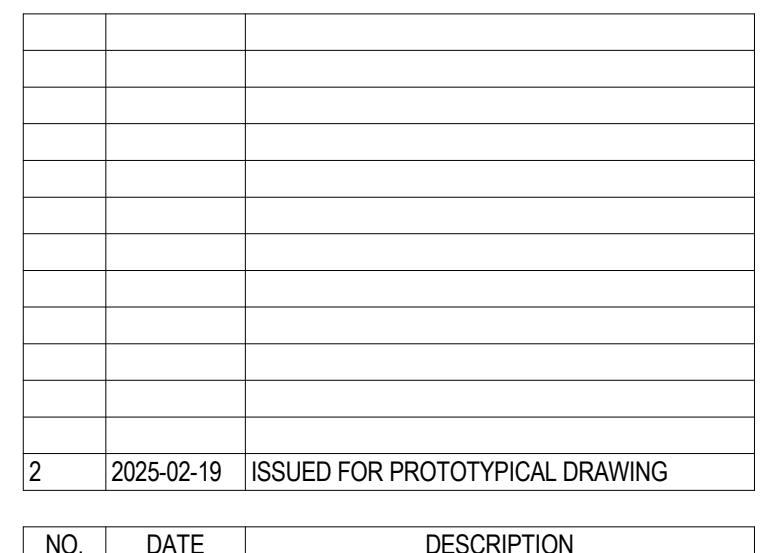
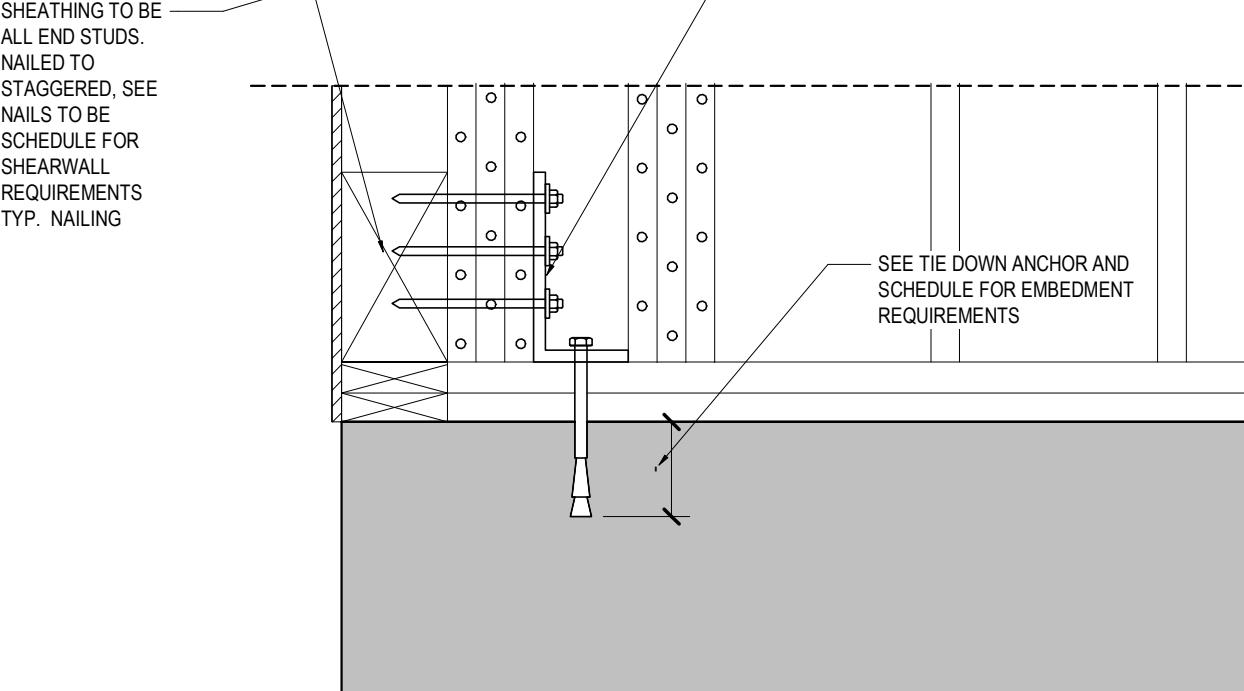
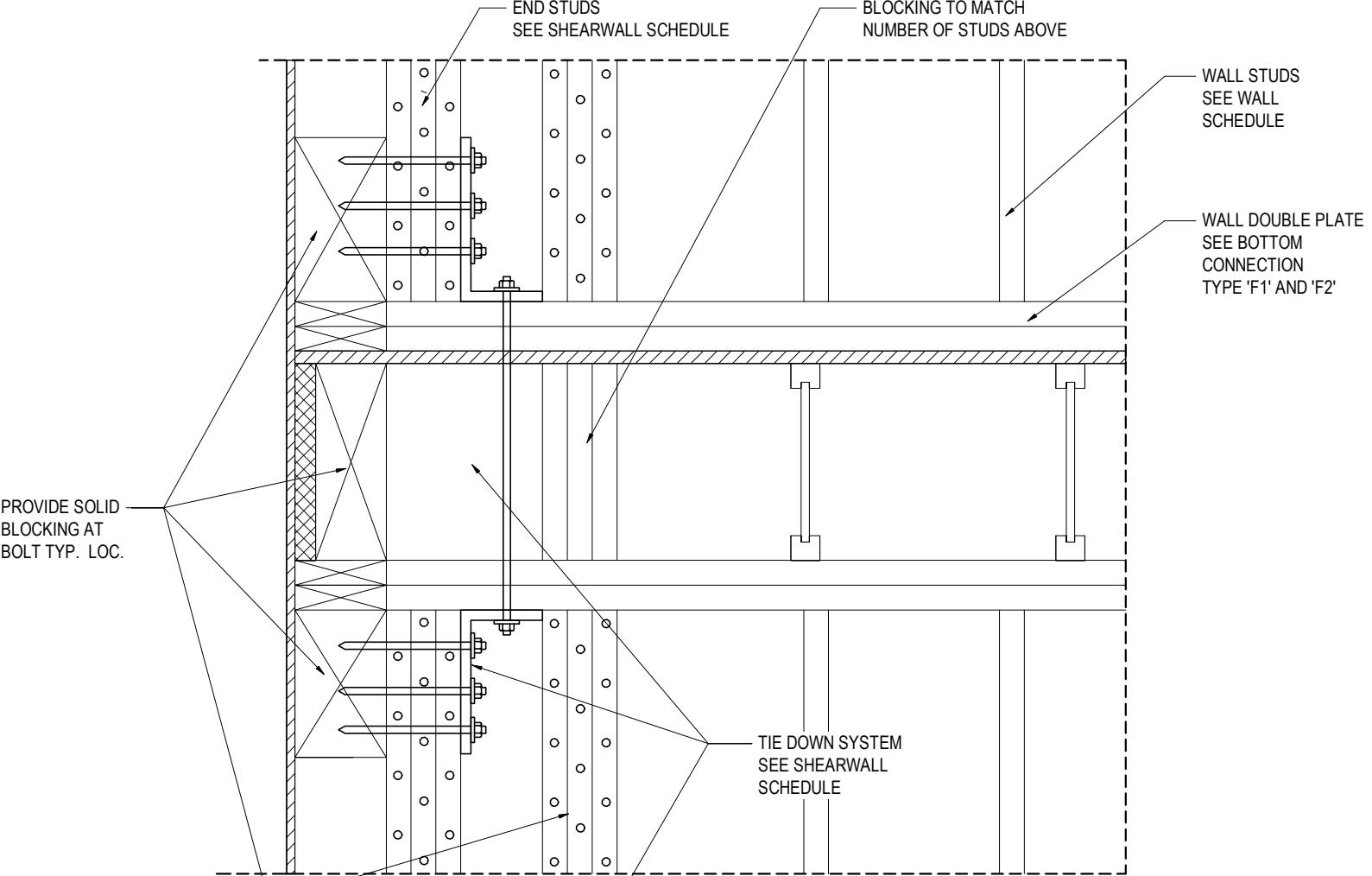
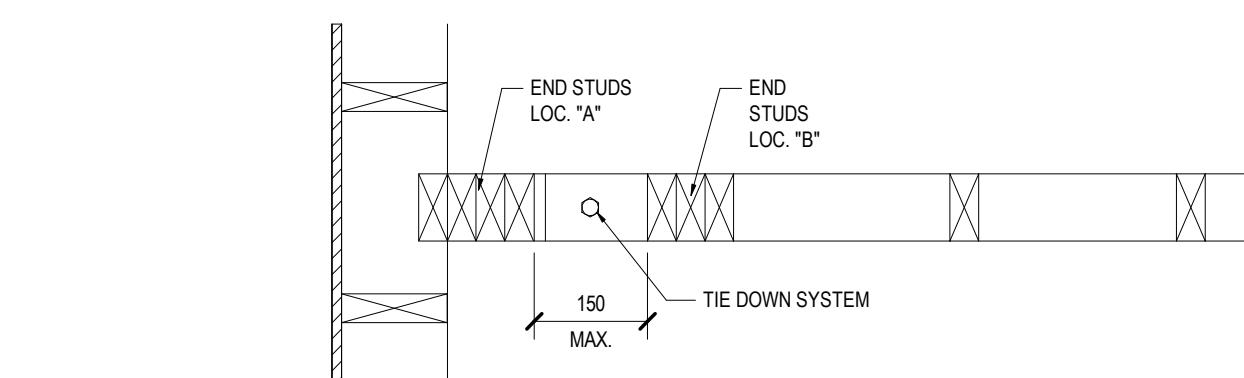
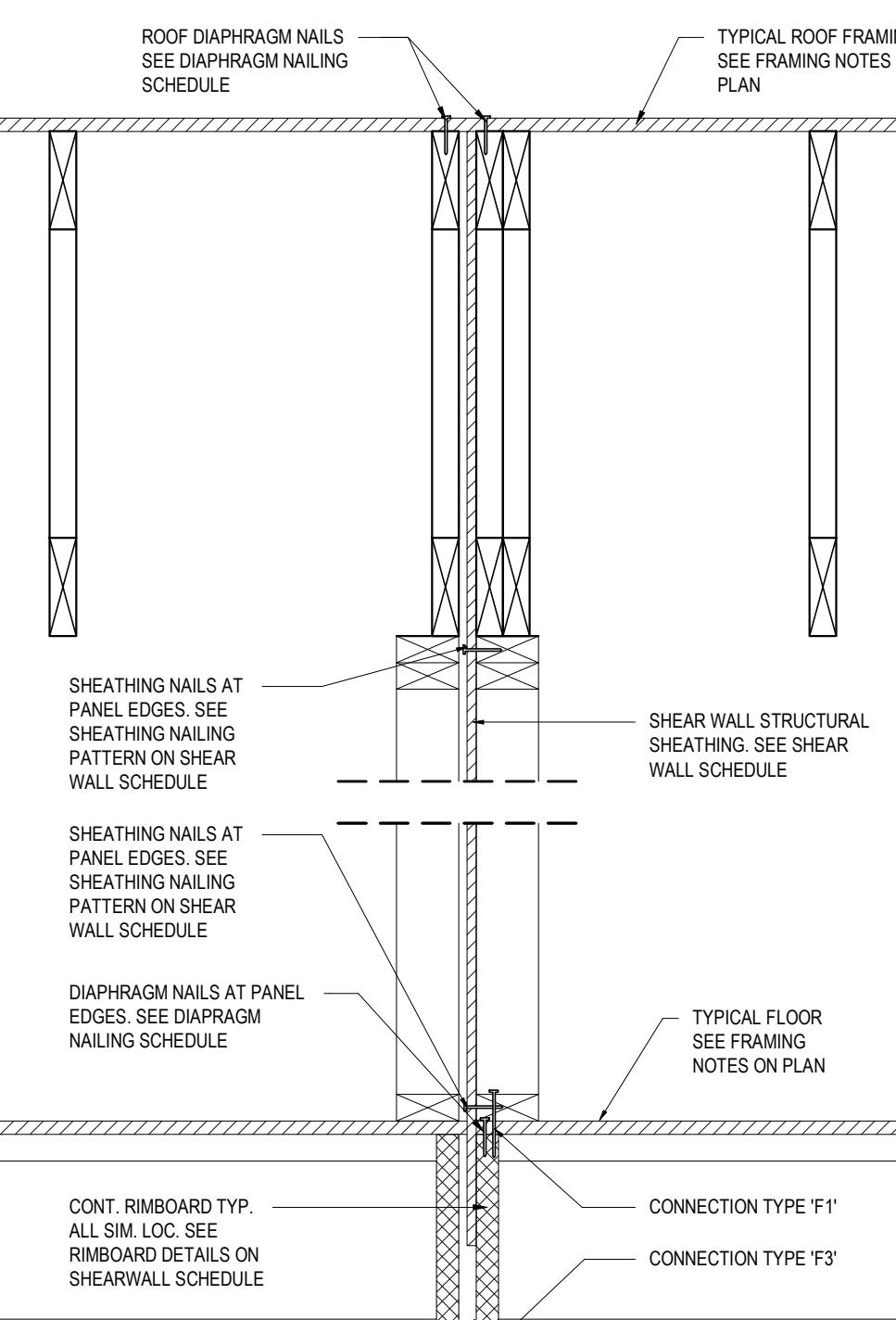
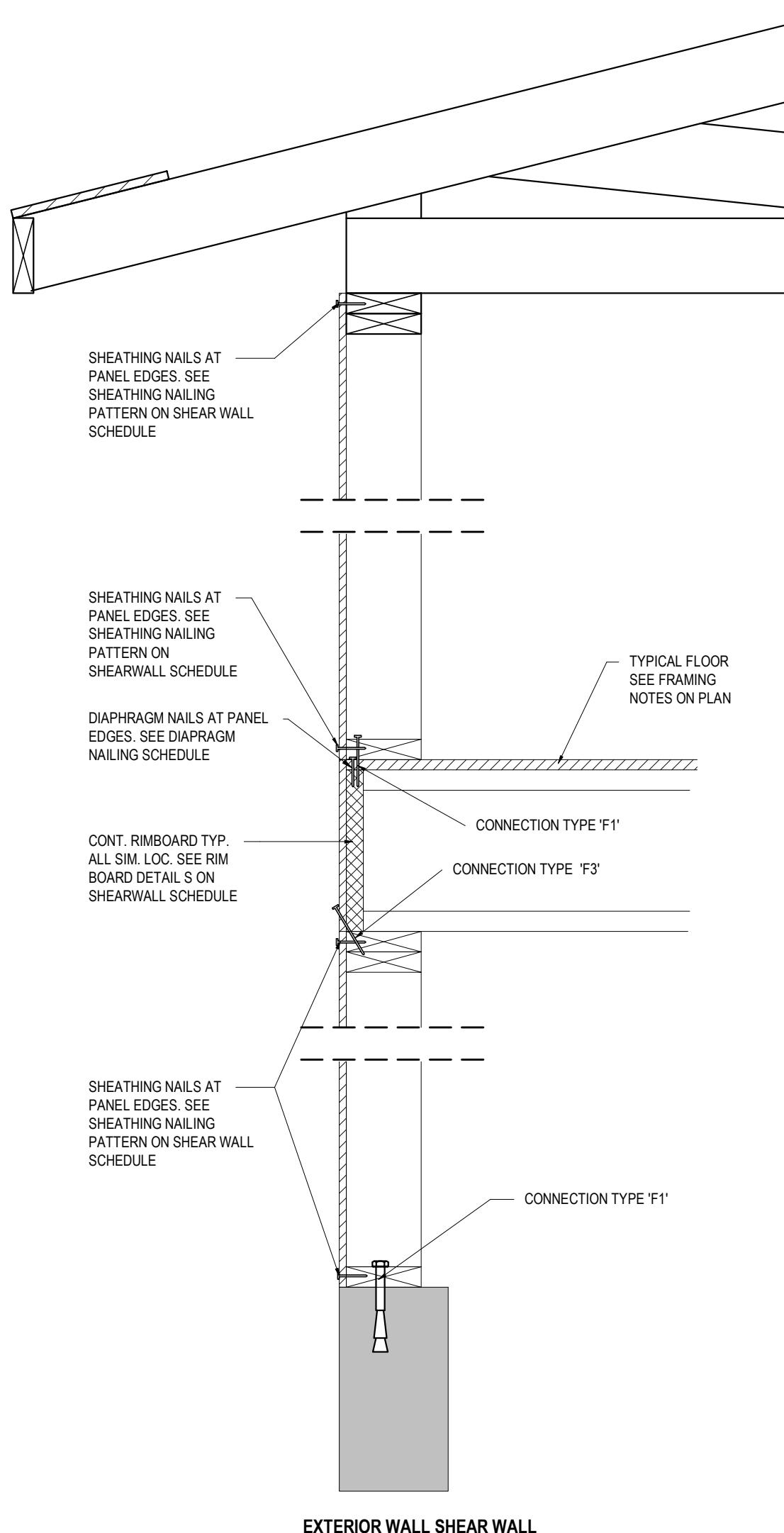
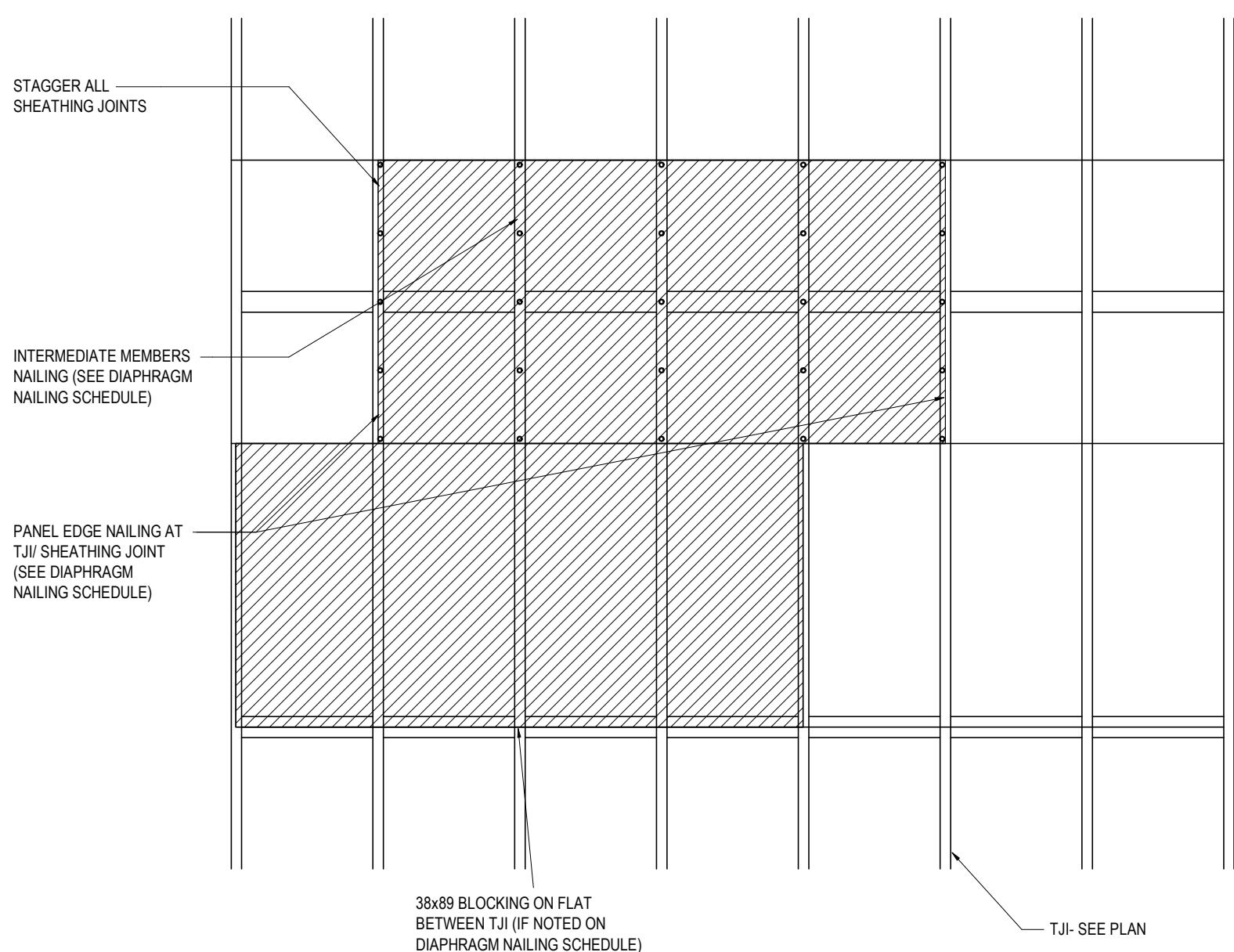
1. ADDITIONAL SQUASH BLOCKS MAY BE REQUIRED AS PER TRUSS

SHEAR KEY TABLE	
WALL TYPE	MINIMUM REQUIREMENTS
EXTERIOR WALLS	3 PER SUITE
CORRIDOR WALLS	3 PER SUITE
LOAD BEARING PARTY WALLS	3 PER WALL EQUALLY SPACED
INTERIOR LOAD BEARING WALLS	3 PER SUITE



WOOD FRAMING NAILING SCHEDULE	MIN. LENGTH OF NAILS	MIN. NUMBER OF NAILS / MAX. NAIL SPACING
WALL STUDS TO WALL TOP / BOTTOM PLATES - TOE NAILS	2 1/2"	4
WALL STUDS TO WALL TOP / BOTTOM PLATES - END NAILS	3 1/4"	2
WALL DOUBLE TOP / BOTTOM PLATES	3"	24" O/C
BOTTOM WALL PLATE OR SOLE PLATE TO FLOOR JOISTS, RIM JOISTS OR BLOCKING - EXTERIOR WALLS	3 1/4"	6" O/C
BOTTOM WALL PLATE OR SOLE PLATE TO FLOOR JOISTS, RIM JOISTS OR BLOCKING - INTERIOR WALLS	3 1/4"	16" O/C
DOUBLED STUDS AT OPENINGS, WALL ENDS	3"	12" O/C
WALL BLOCKING TO WALL STUDS - TOE NAILS	2 1/2"	2 EACH SIDE
LUMBER JOISTS OR BLOCKING TO WALL TOP PLATES - TOE NAILS	3"	2 EACH SIDE
RIM BOARD TO WALL TOP PLATES - TOE NAILS	3 1/4"	6" O/C
JOISTS BLOCKING TO LUMBER JOISTS - END NAILS	3"	2 EACH SIDE
DOOR / WINDOW HEADERS TO STUDS - TOE NAILS	3 1/4"	3 EACH SIDE

1. REFER TO SHEARWALL SCHEDULE ON DWG. SX.X FOR ADDITIONAL NAILING REQUIREMENTS AT SHEARWALL LOCATIONS.



PROJECT: **CMHC HOUSING CATALOGUE**

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:

AB Sixplex 01

PROJECT NO: 02500462
SCALE: As indicated

SHEET NO:

S104

DISCLAIMER

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SECTION 03100 CONCRETE FORMWORK

- CONCRETE FORMWORK SHALL CONFORM WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS:
 - NATIONAL BUILDING CODE - 2019 ALBERTA EDITION
 - CSA A23.1 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION"
 - CSA S29.1 "FALSEWORK AND FORMWORK"
- THE DESIGN OF CONCRETE FORMWORK AND ADEQUATE SHORING SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONSTRUCT FORMWORK TO MAINTAIN THE FOLLOWING MAXIMUM TOLERANCES UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS:
 - DEVIATION FROM HORIZONTAL AND VERTICAL LINES 3/8" (10mm) IN 6 ft (20m).
 - DEVIATION OF BUILDING DIMENSIONS NOT MORE THAN 3/16" (6mm).
 - DEVIATION OF CROSS SECTIONAL DIMENSIONS OF COLUMNS OR BEAMS +/- 1/8" (3mm).

SECTION 03200 CONCRETE REINFORCEMENT

- CONCRETE REINFORCEMENT SHALL CONFORM WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS:
 - ACI 355.1 ACI DETAILING MANUAL
 - CSA A23.1 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
 - CSA G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL"
 - CSA S29.1 "WELDED DEFORMED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT"
 - CAN/CSA G30.18 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT"
 - CAN/CSA W18.6 "WELDING OF REINFORCING BARS FOR CONCRETE CONSTRUCTION"
 - ASTM A775 "EPOXY-COATED STEEL REINFORCING BARS"
- SUBMIT SHOP DRAWINGS FOR ALL REINFORCING STEEL.
- REINFORCING STEEL TO CSA G30.18 400 MPa YIELD GRADE SPECIAL LOW ALLOY DEFORMED STEEL, 12.5% TENSILE STRAIN, AND A YIELD STRAIN NOT EXCEEDING 0.2% AND/OR BENDING WHERE BENDING RADIUS IS SMALLER THAN RECOMMENDED STANDARDS.
- SHOP BEND BARS COLD, IDENTIFY STEEL, HOOKS, BENDS, CAPS AND SIMILAR DETAILS TO ACI DETAILING MANUAL 315.
- CLEAN REINFORCEMENT TO CSA A23.1.
- CONCRETE REINFORCEMENT DETAILS AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS, USE THE GREATER VALUE OF CODE IN THIS SPECIFICATION OR ON THE DRAWINGS.
- LAP HORIZONTAL STEEL IN ACCORDANCE WITH CSA A23.1.
- PROVIDE ADDITIONAL REINFORCEMENT TO THAT INDICATED ON DRAWINGS AS FOLLOWS:
 - 2-15M VERTICALS AT EDGES OF WALLS.
 - 2-15M HORIZONTALS ABOVE AN OPENINGS IN WALLS. EXTEND REINFORCEMENT 18" (450mm) BEYOND EDGE OF OPENING ON EACH SIDE.
 - PROVIDE CORNER BARS TO ALL CORNERS AND INTERSECTIONS.

SECTION 03300 CAST-IN-PLACE CONCRETE

- CAST-IN-PLACE CONCRETE SHALL CONFORM WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS:
 - NATIONAL BUILDING CODE - 2019 ALBERTA EDITION
 - CAN/CSA-A100 PORTLAND CEMENT
 - CSA A23.1 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION
 - CSA A23.2 "TEST METHODS AND STANDARD PRACTICES FOR CONCRETE"
 - CAN 3-265-M18 "CHEMICAL ADMIXTURES FOR CONCRETE"
 - CSA G40.20 "TEST METHODS FOR CONCRETE TESTING LABORATORIES"
 - CSA G265-M18 "AIR-ENTRAINING ADMIXTURES FOR CONCRETE"
- TO ENSURE THAT THE REQUIRED CONCRETE STRENGTHS ARE BEING ACHIEVED, TESTING SHALL BE PERFORMED BY A RECOGNIZED TESTING LABORATORY AS FOLLOWS:
 - ONE SET OF THREE (3) STANDARD TEST SPECIMENS, TO BE MADE FOR EACH CLASS OF CONCRETE, ON THE DAY POUR OR MORE THAN ONE DAY AFTER POURING FOR POURS OF MORE THAN 80 CUBIC METRES, OR ONE SET OF THREE (3) TEST SPECIMENS.
 - ONE ADDITIONAL STANDARD TEST SPECIMEN TO BE MADE DURING COLD WEATHER.
 - CONCRETE TO BE SAMPLED AT THE POINT OF DEPOSIT OF THE CONCRETE.
 - FOR EACH SET OF TEST SPECIMENS A SLUMP TEST AND ENTRAINED AIR TEST IS TO BE INCLUDED.
- CONCRETE REQUIREMENTS:
 - CONCRETE TO MEET CSA G40.20 (LATEST VERSION).
 - REFER TO CONCRETE SCHEDULE FOR MIX REQUIREMENTS.
 - AGGREGATES TO CSA A23.1 AND ASTM C330-17A MAXIMUM SIZE 3/4" (20mm) COARSE AGGREGATE.
- CONCRETE WORKS TO BE WITHIN THE TOLERANCE LISTED BELOW:
 - VARIATION OF THE LINEAR BUILDING LINES LESS THAN 3/16" (6mm).
 - VARIATION OF GROSS SECTION OF THICKNESS OF SLABS +/- 1/4" (6mm).
 - VARIATION FROM LEVEL OR FROM GRADES INDICATED FOR SURFACES OF SLAB SHALL NOT EXCEED UNDER A 3m STRAIGHT EDGE IMMEDIATELY AFTER TROWELLING.
- CONDUITS, PIPES AND SLEEVES IN CONCRETE:
 - ACCURATELY LOCATE AND SET IN PLACE ITEMS WHICH ARE TO BE CAST DIRECTLY INTO CONCRETE.
 - COORDINATE WORK WITH OTHER TRADES.
 - PLACE OF CONDUITS, SLEEVES, ETC. SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF STRUCTURE. CENTER LINE SPACING TO BE NOT LESS THAN 3 CONDUIT DIAMETERS. CENTER LINE SPACING FOR PARALLEL CONDUITS AND REINFORCEMENT SLEEVES SHALL NOT EXCEED 10 CONDUITS.
 - SLEEVES OR CONDUITS THROUGH COLUMNS NOT ALLOWED.
 - SLEEVES THROUGH BEAMS NOT ALLOWED.
 - DO NOT PLACE SLEEVES NEXT TO COLUMNS. MAINTAIN SLEEVES 4 ft (1200mm) MINIMUM DISTANCE AWAY FROM FACE OF COLUMN.
 - SPREAD SLEEVES THROUGH SLABS TO BE 2 TIMES THE DIAMETERS MINIMUM.
 - SUPPORT SLAB BUT NOT REINFORCEMENT ON SLAB BOLSTERS TO MAINTAIN CONCRETE PROTECTION AS REQUIRED.
 - SLAB POURS SHALL NOT EXCEED 8500 ft².
 - LAYOUT CONSTRUCTION JOINTS PRIOR TO PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS ARE TO BE REVIEWED AND APPROVED BY THE CONSULTANT.
 - HOOKS ON COLUMNS SHALL BEND 135°.
 - DO NOT EXPOSE FORMWORK BEFORE CONCRETE HAS REACHED 75% OF SPECIFIED 28 DAY STRENGTH.
 - CURING:
 - CONCRETE CURING TO CSA A23.1.
 - CONCRETE TO BE MAINTAINED IN A HUMID, CONTINUOUSLY MOIST UNTIL CONCRETE TEMPERATURE IS 10°C. CURING SHOULD NOT HAVE PEAKED AND DROPPED SEVERAL DEGREES, OR FOR THREE DAYS AT A MINIMUM TEMPERATURE OF 10°C.
 - ADDITIONAL CURING: IMMEDIATELY FOLLOWING BASIC CURING AND BEFORE THE CONCRETE HAS DRIED, CURE FOR AN ADDITIONAL FOUR DAYS, MAINTAINING THE TEMPERATURE OF THE AIR IN CONTACT WITH THE CONCRETE ABOVE 10°C.
 - ACCEPTABLE CURING METHODS:
 - WATER SPRINKLING.
 - ABSORBENT MAT OR FABRIC KEPT CONTINUOUSLY WET.
 - DAMP SAND, EARTH, OR SIMILAR MOIST MATERIAL.
 - CONTINUOUS STEAM VAPOUR MIST BATH NOT EXCEEDING 70°C.
 - CURING COMPOUND.
 - WATERPROOFING OR PLASTIC FILM.
 - OTHER CURE-RETAINING METHODS APPROVED BY THE CONSULTANT.
 - FORMS IN CONTACT WITH CONCRETE SURFACE.
 - DO NOT USE CURING COMPOUNDS ON CONCRETE SURFACES, WHICH ARE RECEIVED TO RECEIVING, TOPPING, HARDENER, OR OTHER TYPE OF BONDED FINISH UNLESS APPROVED BY THE CONSULTANT.
 - PROJECT CONTRACTOR SHALL PLACE AND CONSOLIDATED CONCRETE AGAINST DAMAGE OR DEFECTS FROM ADVERSE WEATHER CONDITIONS.
 - EXPOSED CONCRETE WALKING SURFACES NOT TO RECEIVE AN INTEGRAL HARDENER, COAT WITH CURING COMPOUND OR CURING METHOD THAT PROVIDES PERMANENT SEAL IN AREAS WITH AN EXPOSED CONCRETE FLOOR SURFACE. APPLY THE HARDENER AND DUST-PROOFING AGENT STRICTLY TO THE MANUFACTURER'S INSTRUCTIONS.
 - SUMMIT RECOMMENDED METHODS OF PROTECTION AND CURING WHEN AIR TEMPERATURE IS AT OR ABOVE 25°C OR AT OR BELOW 5°C, OR LIKELY TO BE SO WITHIN 24 HOURS OF PLACING TIME.
 - WATER FOR CURING SHALL BE CLEAN AND FREE FROM MATERIALS THAT WILL CAUSE STAINING OR DISCOLORATION OF THE CONCRETE.
 - IF DAMP SAND, EARTH OR SIMILAR MOIST MATERIAL IS UTILIZED FOR UNDERLAY SURFACES, SPREAD 2" (50mm) OVER THE ENTIRE SURFACE AND KEEP SATURATED WITH WATER.
 - FOR VERTICAL SURFACES SUCH AS WALLS, COLUMNS, PIERs, LOOSEN THE FORMS, LEAVE FORM IN PLACE.
 - IF MOIST CURING IS NOT USED, THEN SPRAYED CURING COMPOUNDS ARE TO BE USED.
 - CURING COMPOUNDS TO BE OF THE LIQUID MEMBRANE TYPE FOR CURING CONCRETE, AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
 - CURING COMPOUNDS USED FOR EXPOSED CONCRETE MUST NOT DISCOLOR THE CONCRETE, NOR BE SUCH AS TO PROHIBIT THE SUBSEQUENT APPLICATION OF PAINT, TILES, PAVING OR OTHER COMPLETED SURFACES.
 - FOR EXPOSED CONCRETE SURFACES, FOLLOW THE COMPLETION OF FINISHING OPERATIONS AND IMMEDIATELY AFTER THE DISAPPEARANCE OF SURFACE MOISTURE, APPLY THE SPRAYED CURING COMPOUND.

SECTION 316223 SCREW PILES

- SCREW PILES SHALL CONFORM WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS:
 - ASTM A36/A38M "CARBON STEEL".
 - ASTM F252 "WELDED AND SEAMLESS STEEL PIPE PILES".
 - ASTM D1700 "TEST METHODS FOR METAL PILES FOR DEEP FOUNDATIONS UNDER STATIC AND COMPRESSIVE LOAD".
 - CSA/CSA-G40.20/40.21 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
 - CSA W47.1 "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL".
 - CSA W48 "FILLER METALS AND ALLIED MATERIALS FOR METAL ARC WELDING".
 - CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)".

- DESIGN REQUIREMENTS:
 - DESIGN PILES FOR THE LOADING SHOWN ON DRAWINGS.
 - DESIGN CONCRETE FORMS AND SHORING REQUIREMENTS NECESSARY TO RESIST ALL LOADS INDICATED ON DRAWINGS.
 - PILE DESIGN SHALL BE SIGNED AND SEALED BY A P.ENG DESIGNATED IN THE PROVINCE OF ALBERTA.

- SHOP DRAWINGS:
 - INCLUDE THE FOLLOWING INFORMATION:
 - PILE LAYOUT.
 - TYPE OF PILE.
 - PILE NUMBER.
 - GRADE AND DETAILS OF STEEL.
 - ELEVATION OF PILE BASES.
 - ELEVATION OF TOP OF PILE CAPS.

- QUALITY ASSURANCE:
 - PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF CSA G40.21, UNLESS INDICATED OTHERWISE HEREIN.
 - SUPERVISION: PILING IS TO BE INSTALLED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA. THE CONSULTANT IS RESPONSIBLE FOR PROVIDING THE GEOPHICAL REPORT, RETAINED AND PAID FOR BY THE CONTRACTOR, AND APPROVED BY THE CONSULTANT.
 - INSPECTION OF CAP PLATES AND WELDED ANCHORS.
 - MATERIALS AND WORKMANSHIP WILL BE SUBJECT TO INSPECTION AND TESTING BY AN INDEPENDENT INSPECTOR APPROVED BY THE CONSULTANT AND APPROVED BY THE CONTRACTOR AND APPROVED BY THE CONSULTANT.
 - TESTING CONDUCTED TO CSA W59 AND CAN/CSA S16.1 STANDARDS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - GENERAL EXAMINATION OF ALL WELDS AND WORKMANSHIP THAT ARE READILY ACCESSIBLE (100%).
 - RANDOM MAGNETIC PARTICLE TESTING OF SELECTED FIELD WELDS OF ALL COMPONENTS (10% OF CONSTRUCTION).
 - BOLT SPECIFICATIONS, GRADED AND FASTENING VERIFICATION (10% OF CONNECTIONS).
 - REVIEW OF DRAWINGS, WELDING PROCEDURES, WELDING CERTIFICATIONS, DATA SHEETS AND WELDING CONSUMABLES STOCK (FIELD).
 - TRACKING OF ALL NOTED DEFICIENCIES, TIMELY FAXING OF TECHNICAL REPORTS TO ALL RELEVANT PARTIES, IMMEDIATE CORRESPONDENCE OF IMPORTANT ISSUES TO THE ENGINEER OF RECORD, AND A FINAL SUMMARY REPORT INCLUDING ALL RELATED DOCUMENTATION THE FINAL PROJECT STATUS.
 - BY AN INDEPENDENT INSPECTION AND TESTING FIRM TO SUBMIT TO THE CONSULTANT A FINAL REPORT CERTIFYING ALL WELDS AND CONNECTIONS, INCLUDING CONFIRMATION THAT ALL REQUIREMENTS HAVE BEEN MET. THIS REPORT IS TO BE SUBMITTED TO THE CONSULTANT AND THE SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA.

- CONCRETE REQUIREMENTS:
 - CONCRETE TO MEET CSA G40.20 (LATEST VERSION).
 - REFER TO CONCRETE SCHEDULE FOR MIX REQUIREMENTS.
 - AGGREGATES TO CSA A23.1 AND ASTM C330-17A MAXIMUM SIZE 3/4" (20mm) COARSE AGGREGATE.

- CONCRETE WORKS TO BE WITHIN THE TOLERANCE LISTED BELOW:
 - VARIATION OF THE LINEAR BUILDING LINES LESS THAN 3/16" (6mm).
 - VARIATION OF GROSS SECTION OF THICKNESS OF SLABS +/- 1/4" (6mm).

- CONDUITS, PIPES AND SLEEVES IN CONCRETE:
 - ACCURATELY LOCATE AND SET IN PLACE ITEMS WHICH ARE TO BE CAST DIRECTLY INTO CONCRETE.
 - COORDINATE WORK WITH OTHER TRADES.
 - PLACE OF CONDUITS, SLEEVES, ETC. SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF STRUCTURE. CENTER LINE SPACING TO BE NOT LESS THAN 3 CONDUIT DIAMETERS. CENTER LINE SPACING FOR PARALLEL CONDUITS AND REINFORCEMENT SLEEVES SHALL NOT EXCEED 10 CONDUITS.
 - SLEEVES OR CONDUITS THROUGH COLUMNS NOT ALLOWED.
 - SLEEVES THROUGH BEAMS NOT ALLOWED.
 - DO NOT PLACE SLEEVES NEXT TO COLUMNS. MAINTAIN SLEEVES 4 ft (1200mm) MINIMUM DISTANCE AWAY FROM FACE OF COLUMN.
 - SPREAD SLEEVES THROUGH SLABS TO BE 2 TIMES THE DIAMETERS MINIMUM.
 - SUPPORT SLAB BUT NOT REINFORCEMENT ON SLAB BOLSTERS TO MAINTAIN CONCRETE PROTECTION AS REQUIRED.
 - SLAB POURS SHALL NOT EXCEED 8500 ft².
 - LAYOUT CONSTRUCTION JOINTS PRIOR TO PLACEMENT OF CONCRETE. CONSTRUCTION JOINTS ARE TO BE REVIEWED AND APPROVED BY THE CONSULTANT.
 - HOOKS ON COLUMNS SHALL BEND 135°.
 - DO NOT EXPOSE FORMWORK BEFORE CONCRETE HAS REACHED 75% OF SPECIFIED 28 DAY STRENGTH.
 - CURING:
 - CONCRETE CURING TO CSA A23.1.
 - CONCRETE TO BE MAINTAINED IN A HUMID, CONTINUOUSLY MOIST UNTIL CONCRETE TEMPERATURE IS 10°C. CURING SHOULD NOT HAVE PEAKED AND DROPPED SEVERAL DEGREES, OR FOR THREE DAYS AT A MINIMUM TEMPERATURE OF 10°C.
 - ADDITIONAL CURING: IMMEDIATELY FOLLOWING BASIC CURING AND BEFORE THE CONCRETE HAS DRIED, CURE FOR AN ADDITIONAL FOUR DAYS, MAINTAINING THE TEMPERATURE OF THE AIR IN CONTACT WITH THE CONCRETE ABOVE 10°C.
 - ACCEPTABLE CURING METHODS:
 - WATER SPRINKLING.
 - ABSORBENT MAT OR FABRIC KEPT CONTINUOUSLY WET.
 - DAMP SAND, EARTH, OR SIMILAR MOIST MATERIAL.
 - CONTINUOUS STEAM VAPOUR MIST BATH NOT EXCEEDING 70°C.
 - CURING COMPOUND.
 - WATERPROOFING OR PLASTIC FILM.
 - OTHER CURE-RETAINING METHODS APPROVED BY THE CONSULTANT.
 - FORMS IN CONTACT WITH CONCRETE SURFACE.
 - DO NOT USE CURING COMPOUNDS ON CONCRETE SURFACES, WHICH ARE RECEIVED TO RECEIVING, TOPPING, HARDENER, OR OTHER TYPE OF BONDED FINISH UNLESS APPROVED BY THE CONSULTANT.
 - PROJECT CONTRACTOR SHALL PLACE AND CONSOLIDATED CONCRETE AGAINST DAMAGE OR DEFECTS FROM ADVERSE WEATHER CONDITIONS.
 - EXPOSED CONCRETE WALKING SURFACES NOT TO RECEIVE AN INTEGRAL HARDENER, COAT WITH CURING COMPOUND OR CURING METHOD THAT PROVIDES PERMANENT SEAL IN AREAS WITH AN EXPOSED CONCRETE FLOOR SURFACE. APPLY THE HARDENER AND DUST-PROOFING AGENT STRICTLY TO THE MANUFACTURER'S INSTRUCTIONS.
 - SUMMIT RECOMMENDED METHODS OF PROTECTION AND CURING WHEN AIR TEMPERATURE IS AT OR ABOVE 25°C OR AT OR BELOW 5°C, OR LIKELY TO BE SO WITHIN 24 HOURS OF PLACING TIME.
 - WATER FOR CURING SHALL BE CLEAN AND FREE FROM MATERIALS THAT WILL CAUSE STAINING OR DISCOLORATION OF THE CONCRETE.
 - IF DAMP SAND, EARTH OR SIMILAR MOIST MATERIAL IS UTILIZED FOR UNDERLAY SURFACES, SPREAD 2" (50mm) OVER THE ENTIRE SURFACE AND KEEP SATURATED WITH WATER.
 - FOR VERTICAL SURFACES SUCH AS WALLS, COLUMNS, PIERs, LOOSEN THE FORMS, LEAVE FORM IN PLACE.
 - IF MOIST CURING IS NOT USED, THEN SPRAYED CURING COMPOUNDS ARE TO BE USED.
 - CURING COMPOUNDS TO BE OF THE LIQUID MEMBRANE TYPE FOR CURING CONCRETE, AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
 - CURING COMPOUNDS USED FOR EXPOSED CONCRETE MUST NOT DISCOLOR THE CONCRETE, NOR BE SUCH AS TO PROHIBIT THE SUBSEQUENT APPLICATION OF PAINT, TILES, PAVING OR OTHER COMPLETED SURFACES.
 - FOR EXPOSED CONCRETE SURFACES, FOLLOW THE COMPLETION OF FINISHING OPERATIONS AND IMMEDIATELY AFTER THE DISAPPEARANCE OF SURFACE MOISTURE, APPLY THE SPRAYED CURING COMPOUND.

SECTION 061733 WOOD I-JOISTS
PART 1 GENERAL

- REFERENCES:
 - NATIONAL BUILDING CODE - 2019 ALBERTA EDITION
 - CSA 086 ENGINEERING DESIGN IN WOOD.
 - NLGA 14: STANDARD GRADING RULES FOR CANADIAN LUMBER.
 - CSA O121:2012 WOOD CONSTRUCTION.
 - CSA O111: CANADIAN SOFTWOOD PLYWOOD.
 - CSA-0325: CONSTRUCTION SHEATHING.
 - ASTM D5955: STANDARD SPECIFICATION FOR ESTABLISHING AND MONITORING STRUCTURAL CAPACITIES OF PREFABRICATED WOOD I-JOISTS.
 - ISOIEC 17065: CONFORMITY ASSESSMENT - REQUIREMENTS FOR BODIES CERTIFYING PRODUCTS AND SERVICES.
 - CSA 0122 SERIES: CSA STANDARDS FOR WOOD ADHESIVES

- DESIGN REQUIREMENTS:
 - DESIGN WOOD I-JOISTS, BRACING, BLOCKING, FRAMED OPENINGS, AND CONNECTIONS IN ACCORDANCE WITH CSA 086 TO SAFELY CARRY ALL LOADS INDICATED ON DRAWINGS INCLUDING MECHANICAL AND OTHER EQUIPMENT NOT LISTED.
 - ALL HELICAL PILES TO BE DESIGNED BY THE SUPPLIER FOR A MINIMUM 75 YEAR OPERATIONAL LIFE. REVIEW OF THE GEOPHICAL INFORMATION IS INCUMBENT UPON THE HELICAL PILES SUPPLIER

- SHOP DRAWINGS:
 - INCLUDE THE FOLLOWING INFORMATION:
 - PILE LAYOUT.
 - TYPE OF PILE.
 - PILE NUMBER.
 - GRADE AND DETAILS OF STEEL.
 - ELEVATION OF PILE BASES.
 - ELEVATION OF TOP OF PILE CAPS.

- DELIVERY, STORAGE, AND PROTECTION:
 - STORAGE AND HANDLING REQUIREMENTS:
 - PILE LUMBER ON RAISED SUPPORTS, COVER MATERIALS WITH WATERPROOF COATING, PROVIDE ADEQUATE AIR CIRCULATION AND VENTILATION.
 - PROTECT I-JOISTS FROM WEATHER AND STORE THEM ON JOB SITE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE BEARING SUPPORTS AND BRACINGS TO PREVENT BENDING OR OVERTURNING DURING TRANSIT AND STORAGE.

- SHOP DRAWINGS:
 - SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION.

- QUALITY ASSURANCE:
 - CLEARLY INDICATE THE TYPE OF PRODUCT, LAYOUT, DESIGN LOADS INCLUDING SNOW DRIFT LOADS, EARTHQUAKE LOADS, CHIMNEY LOADS AND EQUIPMENT LOADS.
 - PILE DESIGN SHALL BE SIGNED AND SEALED BY A P.ENG DESIGNATED IN THE PROVINCE OF ALBERTA.

- PRODUCT MATERIALS:
 - GRADE: CSA 086 GRADE MARKED LUMBER CONFORMING TO THE STANDARD GRADES RULES FOR CANADIAN LUMBER GRADES AUTHORITY.
 - LUMBER GRADES FOR STRUCTURAL LIGHT FRAMING TO CAN/CSA U141, NO.1 NO.2 SURFACE GRADES GRADED AND STAMPED IN ACCORDANCE WITH CURRENT NATIONAL LUMBER GRADES AUTHORITY (NLGA) STANDARD GRADING RULES FOR CANADIAN LUMBER. EACH PIECE OF LUMBER MUST BEAR GRADE MARK, STAMP, OR OTHER IDENTIFYING MARKS INDICATING GRADES OF MATERIAL AND RULES OR STANDARDS UNDER WHICH PRODUCED ANY LUMBER NOT GRADED MARKED WILL BE GRADED AS GRADE 1.
 - MOISTURE CONTENT: MAXIMUM 10% AT TIME OF INSTALLATION.
 - FINGER JOINTED LUMBER IS NOT ACCEPTABLE.

- GRADE: CSA 086 GRADE MARKED LUMBER CONFORMING TO THE STANDARD GRADES RULES FOR CANADIAN LUMBER GRADES AUTHORITY.

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FOUNDATION PLAN

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FOUNDATION PLAN NOTES (PILES)

SEE DRAWINGS ON S100 SERIES FOR GENERAL NOTES & TYPICAL DETAILS.

LEAVE GRADE BEAM FORMS INTACT UNTIL CONCRETE HAS REACHED 70% OF ITS SPECIFIED STRENGTH.

C.J. ON PLAN INDICATES CONTROL JOINT. FILL JOINTS WITH WATERPROOF SEALANT. CONTROL JOINTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS. VERIFY WITH ARCH. DWGS. FOR TILE FLOOR LAYOUT PATTERNS BEFORE COMMENCING WITH WORK.

T/O CONCRETE SLAB ELEVATION = 0.000 U.N.O. IS SHOWN ON PLAN AS THUS:

T/O PILE ELEVATION U.N.O. IS SHOWN ON PLAN AS THUS:

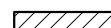
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(circle with diagonal line)	T/O SLAB
XXX	

SLOPE SLAB TO DRAINS AS PER ARCHITECTURAL AND MECHANICAL DRAWINGS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.

CONCRETE SLAB ON GRADE TO CONSIST OF 130mm THICK CONCRETE SLAB R/W. 10M @ 300 EACH WAY MIDDLE, ON SOIL GAS IMPERMEABLE MEMBRANE / VAPOUR BARRIER (15 mil) ON RADON ROCK ON COMPACTED GRANULAR FILL TYP. U.N.O. ON PLAN. COORDINATE AND CONFIRM THE ABOVE WITH ARCHITECTURAL, MECHANICAL AND GEOTECHNICAL REPORT. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

FOR FLOOR CURBS, TRENCHES AND MISCELLANEOUS DETAILS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. FOR LOCATION OF ALL SIDEWALKS AND / OR CONCRETE STOOPS SEE ARCHITECTURAL DRAWINGS.

PROVIDE BLOCKOUT IN GRADE BEAMS AT DOORWAYS TYP. SHOWN ON PLAN AS THUS: 

ENSURE ALL GRADE BEAMS ARE TEMPORARILY BRACED AND LATERALLY SUPPORTED.

PILE MINIMUM SIZE SHALL BE 400mmØ AND REINFORCEMENT SHALL BE 4-15M VERTICAL FULL LENGTH. PROVIDE 10M @ 300mm O/C. TIES.

UNLESS NOTED OTHERWISE ON DRAWINGS, PROVIDE 4-15M x 1200mm LG. DOWELS AT ALL PILE TO GRADE BEAM LOCATIONS AND 6-15M x 1200mm LG. DOWELS AT ALL PILE TO CONCRETE PIER LOCATIONS.

UNLESS NOTED OTHERWISE PROVIDE 1200mm LONG DOWELS FROM PILES TO MATCH SIZE AND NUMBER OF VERTICAL REINFORCEMENT IN CONCRETE COLUMNS ABOVE.

PROVIDE A FULL TENSION SPLICE AT ALL LAPS IN SLAB REBAR.

REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF SLAB DEPRESSIONS. MAINTAIN FULL SLAB THICKNESS THROUGHOUT.

PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURES ABOVE 5°C.

IMPORTANT NOTE:
CONTROL JOINTS ARE NOT TO BE PLACED IN STRUCTURAL SLABS.

GRADE / SUB-BASE PREPARATION FOR GRADE SUPPORTED FLOOR SLABS

THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT FOR PREPARATION / PROTECTION OF SUBGRADE / SUB-BASE. PREPARATION OF THE SUB-GRADE / SUB-BASE AND NEW FILL REQUIREMENTS SHALL BE REVIEWED AND APPROVED BY A GEOTECHNICAL ENGINEER WITHIN 24 HOURS PRIOR TO POURING CONCRETE.

REMOVE ALL ORGANIC TOPSOIL, FILL AND OTHER DELETERIOUS MATERIAL FROM THE BUILDING SLAB AREA. DEPTHS OF TOP SOIL AND FILL MAY VARY THROUGHOUT THE SITE GEOTECHNICAL ENGINEER TO REVIEW AND ADVISE.

FOLLOWING THE SUBCUTTING OF THE ORGANIC TOPSOIL AND FILL LAYERS, THE GRADE SHALL BE COMPACTED AND ANY SOFT SOILS BE IDENTIFIED AND ROLL PROOFED PRIOR TO PLACEMENT OF THE NEW BACKFILL. GEOTECHNICAL ENGINEER TO ADVISE CONTRACTOR ACCORDINGLY.

NEW ENGINEERED FILL SHALL BE COMPACTED AS PER THE GEOTECHNICAL REPORT. FILL MATERIAL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.

PROVIDE 15 mil POLYETHYLENE VAPOUR BARRIER WITH TAPED JOINTS TO THE UNDERSIDE OF SLAB ON GRADE. LAP ALL JOINTS 200mm (8") MIN.

PROTECT SUBGRADE FROM WEATHER ELEMENTS BEFORE, DURING AND AFTER SLAB ON GRADE IS POURED. PROVIDE ADEQUATE PROTECTION TO MAINTAIN SUBGRADE TEMPERATURE ABOVE 5°C.

SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION

2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAW
NO. DATE DESCRIPTION		
PROJECT:	CMHC HOUSING CATALOGUE	

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HEET TITLE:

AB Sixplex 01

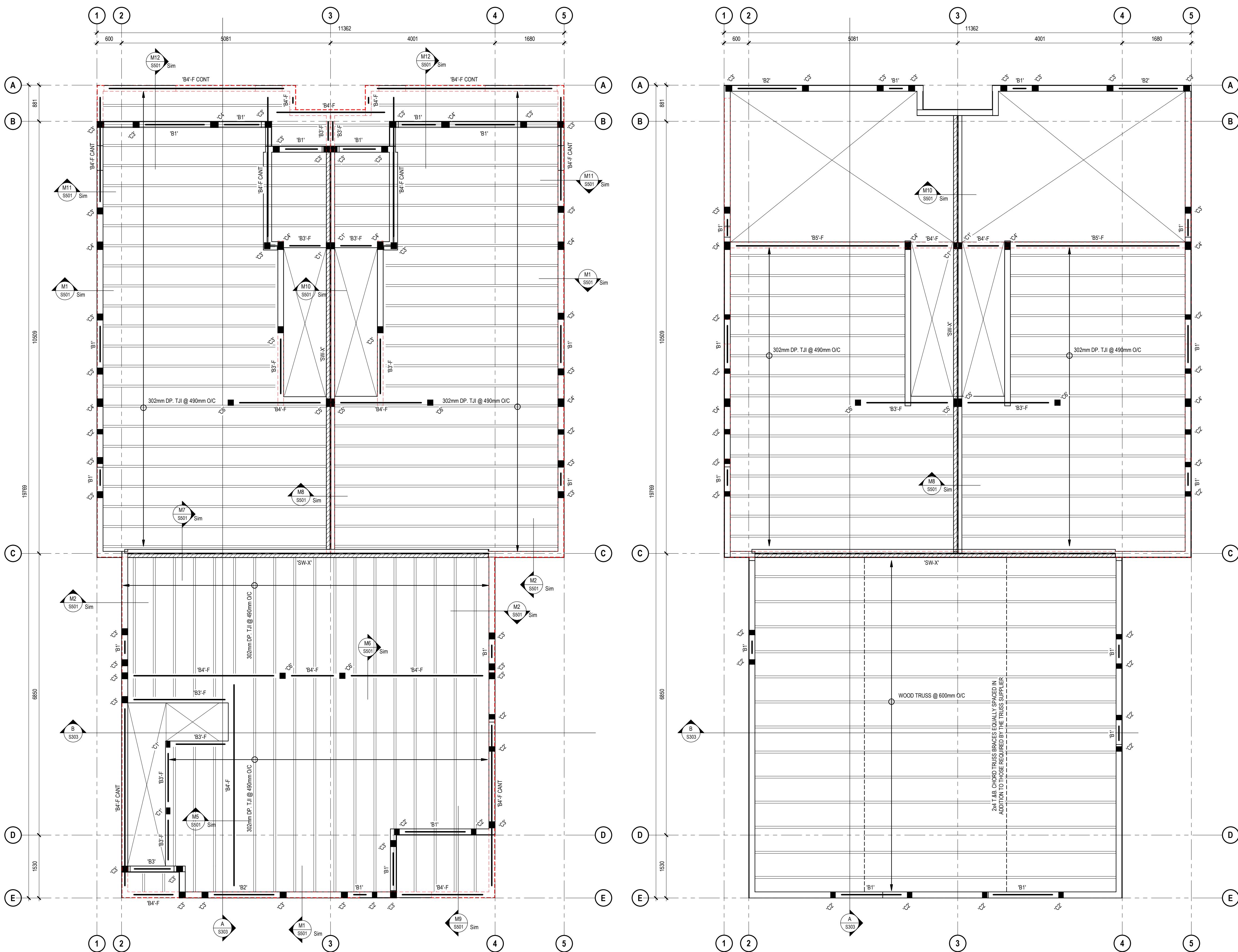
PROJECT NO: 02500462
CALE: As indicated

HEET NO:

S201

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2ND FLOOR FRAMING PLAN

1:50

3RD FLOOR AND LOW ROOF FRAMING PLAN

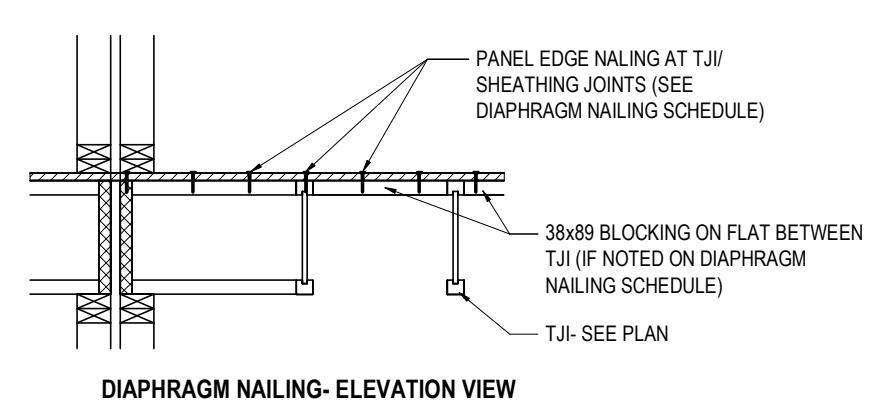
1:50

WOOD BEARING WALL SCHEDULE

WALL TYPE	SECOND FLOOR FRAMING (MAIN FLOOR WALLS)	THIRD FLOOR FRAMING (SECOND FLOOR WALLS)	ROOF FRAMING (THIRD FLOOR WALLS)	GRADE
EXTERIOR WALLS	2x6 @ 400mm O/C C/W 10mm OSB SHEATHING PROVIDE BLOCKING @ SHEATHING JOINTS	2x6 @ 400mm O/C C/W 10mm OSB SHEATHING PROVIDE BLOCKING @ SHEATHING JOINTS	2x6 @ 400mm O/C C/W 10mm OSB SHEATHING PROVIDE BLOCKING @ SHEATHING JOINTS	SPF No.2 OR BETTER
LOAD BEARING PARTY / SHEAR WALLS (EACH WALL)	2x4 @ 300mm O/C C/W MID-HEIGHT BLOCKING (EACH WALL). AT SHEAR WALLS, PROVIDE 10mm OSB SHEATHING ON ONE SIDE AND BLOCKING AT ALL HORIZONTAL SHEATHING JOINTS.	2x4 @ 400mm O/C C/W MID-HEIGHT BLOCKING (EACH WALL). AT SHEAR WALLS, PROVIDE 10mm OSB SHEATHING ON ONE SIDE AND BLOCKING AT ALL HORIZONTAL SHEATHING JOINTS.	N/A	SPF No.2 OR BETTER
STAIRWELL WALLS	2x6 @ 400mm O/C C/W 2 ROWS OF BLOCKING	2x6 @ 400mm O/C C/W MID HEIGHT BLOCKING	N/A	SPF No.2 OR BETTER
INTERIOR WALLS (WT1)	N/A	N/A	2x4 @ 400mm O/C C/W MID HEIGHT BLOCKING	SPF No.2 OR BETTER

1. ALL WALL TYPES ARE TYPICAL UNLESS NOTED OTHERWISE.
2. WALL TYPES INDICATED REPRESENT BEARING WALLS BELOW.
3. WALL VERTICAL ALIGNMENT TO BE WITHIN 13mm OVER ENTIRE HEIGHT OF BUILDING TYPICAL ALL LOAD BEARING WALLS.
4. ALL TOP & BOTTOM CONT. PLATES TO BE SPF No.2.

DIAPHRAGM NAILING SCHEDULE (FLOOR / ROOF SHEATHING)				
LEVEL	SHEATHING TYPE	FASTENER TYPE	FASTENER SPACING	
			PANEL EDGES	INTERMEDIATE MEMBERS
ROOF FRAMING	11mm T&G OSB	8d COMMON WIRE NAILS (0.131x2.51 NAILED AND GLUED)	100mm	300mm
3rd FLOOR FRAMING	19mm T&G OSB		150mm	300mm
2nd FLOOR FRAMING	19mm T&G OSB		150mm	300mm

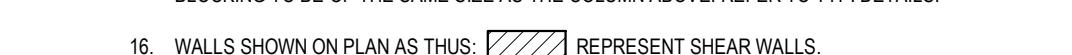


DIAPHRAGM NAILING- ELEVATION VIEW

ROOF PLAN NOTES:

1. SEE ARCH. DWGS. FOR ROOF ELEVATIONS AND ROOF SLOPES.
2. SLOPED ROOF FRAMING TO CONSIST OF 11mm OSB SHEATHING WITH H-CLIPS. OVER WOOD TRUSSES UNLESS NOTED OTHERWISE ON PLAN. TRUSS SPACING NOT TO EXCEED 600mm O/C. DECREASE SPACING IF REQUIRED UPON ENGINEER'S WRITTEN APPROVAL.
3. SEE DRAWINGS S100 SERIES FOR TYPICAL NOTES, DETAILS & SPECIFICATIONS.
4. VERIFY ALL DIMENSIONS ON SITE PRIOR TO TRUSS FABRICATION.
5. ROOF TRUSSES AND ALL MISCELLANEOUS ROOF FRAMING SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS SUPPLIER FOR THE LOADS STATED IN THE GENERAL NOTES UNDER 'DESIGN LOADS'.
6. SUPERSTRUCTURE HAS BEEN DESIGNED BASED ON THE ABOVE ROOF FRAMING. TRUSS SUPPLIER TO ADVISE THE ENGINEER ON RECORD ACCORDINGLY IF LAYOUT CHANGES AS SUPERSTRUCTURE DESIGN MAY HAVE TO BE REVISED.
7. ALL BEAMS TO BE FLUSH BEAMS, EXCEPT DOORWAY AND WINDOW HEADERS.
8. UNLESS NOTED OTHERWISE IN WALL TYPE SCHEDULE, PROVIDE MID-HEIGHT BLOCKING IN ALL LOAD BEARING WALLS.
9. UPON COMPLETION OF TRUSS INSTALLATION THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE TRUSS SHALL REVIEW THE INSTALLATION ON SITE AND CONFIRM IN WRITING THAT THEY MEET THE DESIGN PARAMETERS. FINAL REPORT MUST BE SIGNED AND SEALED BY P. ENG. REGISTERED IN THE PROVINCE OF ALBERTA.
10. EXTEND SHEAR WALLS TO US. OF ROOF SHEATHING, SEE ROOF SECTIONS.
11. BRACES NOTED ON FRAMING PLAN ARE IN ADDITION TO THOSE REQUIRED BY THE TRUSS SUPPLIER TYP.
12. WOOD TRUSS TO WALL, WOOD TRUSS TO TRUSS CONNECTIONS INCLUDING ALL GIRDER CONNECTIONS TO BE DESIGNED AND SUPPLIED BY THE TRUSS SUPPLIER.
13. ALLOW FOR ADDITIONAL 74 psf SNOW PILING IN ALL VALLEYS. SNOW PILING TO BE TAPERED TO REGULAR ROOF SNOW LOAD AT 3000mm EACH SIDE OF VALLEYS.
14. PROVIDE 3.2x6 COLUMN IN 2x6 WALLS AND 4.2x4 COLUMN IN 2x4 WALLS AT ALL GIRDER SUPPORT LOCATIONS UNLESS SUCH COLUMNS TO EXTEND DOWN TO FOUNDATIONS.

WOOD FLOOR FRAMING PLAN NOTES

1. SEE ARCH. DWGS. FOR T/O FLOOR ELEVATION.
2. SEE DRAWINGS S100 SERIES FOR TYPICAL NOTES, DETAILS & SPECIFICATIONS.
3. TYPICAL FLOOR TO CONSIST OF 18mm T & G OSB SHEATHING OVER 302mm DP TJI @ 490mm O/C FOR JOIST SERIES AND LAYOUT. SEE SUPPLIER'S SHOP DRAWINGS. TJI SPACING NOT TO EXCEED 490mm O/C. DECREASE SPACING IF REQUIRED UPON ENGINEER'S WRITTEN APPROVAL.
4. VERIFY ALL DIMENSIONS ON-SITE PRIOR TO JOIST FABRICATION.
5. FLOOR JOISTS SHALL BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER FOR THE LOADS STATED IN THE GENERAL NOTES UNDER 'DESIGN LOADS'.
6. FOR FRAMING AROUND FLOOR OPENINGS SEE TYPICAL DETAILS.
7. ALL BEAMS TO BE FLUSH BEAMS EXCEPT DOORWAY AND WINDOW HEADERS.
8. FOR STAIRCASE FRAMING SEE ARCHITECTURAL DRAWINGS.
9. UNLESS NOTED OTHERWISE IN WALL TYPE SCHEDULE, PROVIDE MID-HEIGHT BLOCKING IN ALL LOAD BEARING WALLS.
10. JOISTS RUNNING PARALLEL TO EXTERIOR WALLS TO HAVE TJI BLOCKING INSTALLED AT 800mm O/C. TYP. UNLESS WALLS ARE BALLOON FRAMED. NOT SHOWN ON PLAN FOR CLARITY, SEE FLOOR SECTIONS.
11. CONTRACTOR TO COORDINATE ALL FLOOR JOIST LOCATIONS TO AVOID CONFLICT WITH PLUMBING FIXTURE DROPS AND PLUMBING RISER LOCATIONS.
12. UPON COMPLETION OF JOIST INSTALLATION THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE JOISTS SHALL REVIEW THE INSTALLATION ON SITE AND CONFIRM IN WRITING THAT THEY MEET THE DESIGN PARAMETERS. REPORTS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA.
13. WOOD JOIST TO WALL, WOOD JOIST TO JOIST CONNECTIONS TO BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER TYP.
14. ADD DOUBLE JOISTS UNDER ALL POINT LOADS AT CANTILEVER LOCATIONS TYP., NOT SHOWN ON PLAN FOR CLARITY.
15. ALL COLUMNS TO BE COUPLED WITH SOLID BLOCKING THROUGH A FLOOR SYSTEM, SUCH BLOCKING TO BE OF THE SAME SIZE AS THE COLUMN ABOVE. REFER TO TYP. DETAILS.
16. WALLS SHOWN ON PLAN AS THUS:  REPRESENT SHEAR WALLS.

NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:
FRAMING PLANS

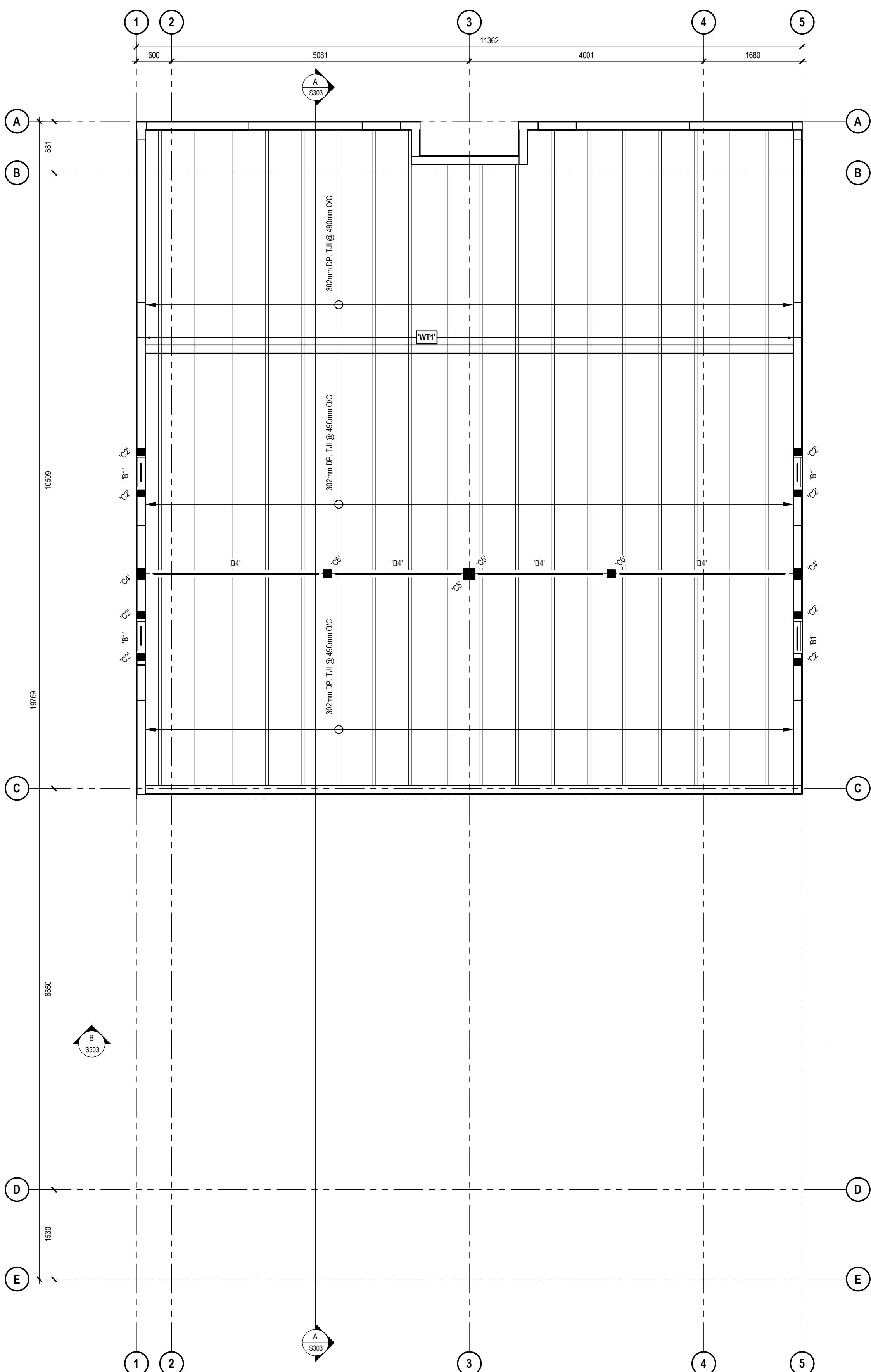
AB Sixplex 01

PROJECT NO: 02500462
SCALE: As indicated

SHEET NO:
S301

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ROOF FRAMING PLAN

1 : 50

ROOF PLAN NOTES:

- SEE ARCH. DWGS. FOR ROOF ELEVATIONS AND ROOF SLOPES.
- SLOPED ROOF FRAMING TO CONSIST OF 11mm OSB SHEATHING WITH H-CLIPS OVER WOOD TRUSSES UNLESS NOTED OTHERWISE ON PLAN. TRUSS SPACING NOT TO EXCEED 600mm O/C. DECREASE SPACING IF REQUIRED UPON ENGINEER'S WRITTEN APPROVAL.
- SEE DRAWINGS S100 SERIES FOR TYPICAL NOTES, DETAILS & SPECIFICATIONS.
- VERIFY ALL DIMENSIONS ON SITE PRIOR TO TRUSS FABRICATION.
- ROOF TRUSSES AND ALL MISCELLANEOUS ROOF FRAMING SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS SUPPLIER FOR THE LOADS STATED IN THE GENERAL NOTES UNDER 'DESIGN LOADS'.
- SUPERSTRUCTURE HAS BEEN DESIGNED BASED ON THE ABOVE ROOF FRAMING. TRUSS SUPPLIER TO ADVISE THE ENGINEER ON RECORD ACCORDINGLY IF LAYOUT CHANGES AS SUPERSTRUCTURE DESIGN MAY HAVE TO BE REVISED.
- ALL BEAMS TO BE FLUSH BEAMS, EXCEPT DOORWAY AND WINDOW HEADERS.
- UNLESS NOTED OTHERWISE IN WALL TYPE SCHEDULE, PROVIDE MID-HEIGHT BLOCKING IN ALL LOAD BEARING WALLS.
- UPON COMPLETION OF TRUSS INSTALLATION THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE TRUSS SHALL REVIEW THE INSTALLATION ON SITE AND CONFIRM IN WRITING THAT THEY MEET THE DESIGN PARAMETERS. FINAL REPORT MUST BE SIGNED AND SEALED BY P. ENG. REGISTERED IN THE PROVINCE OF ALBERTA.
- EXTEND SHEAR WALLS TO LUS. OF ROOF SHEATHING, SEE ROOF SECTIONS.
- BRACES NOTED ON FRAMING PLAN ARE IN ADDITION TO THOSE REQUIRED BY THE TRUSS SUPPLIER TYP.
- WOOD TRUSS TO WALL, WOOD TRUSS TO TRUSS CONNECTIONS INCLUDING ALL GIRDER CONNECTIONS TO BE DESIGNED AND SUPPLIED BY THE TRUSS SUPPLIER.
- ALLOW FOR ADDITIONAL 74 psf SNOW PILING IN ALL VALLEYS. SNOW PILING TO BE TAPERED TO REGULAR ROOF SNOW LOAD AT 3000mm EACH SIDE OF VALLEYS.

COLUMN SCHEDULE 'C'		
TYPE	SIZE	REMARKS
'C1'	4-2x4	SPF No.1/No.2 BUILT-UP
'C2'	3-2x6	SPF No.1/No.2 BUILT-UP
'C3'	4-2x6	SPF No.1/No.2 BUILT-UP
'C4'	5-2x6	SPF No.1/No.2 BUILT-UP
'C5'	5-2x4	SPF No.1/No.2 BUILT-UP
'C6'	133x133	1.8E PSL

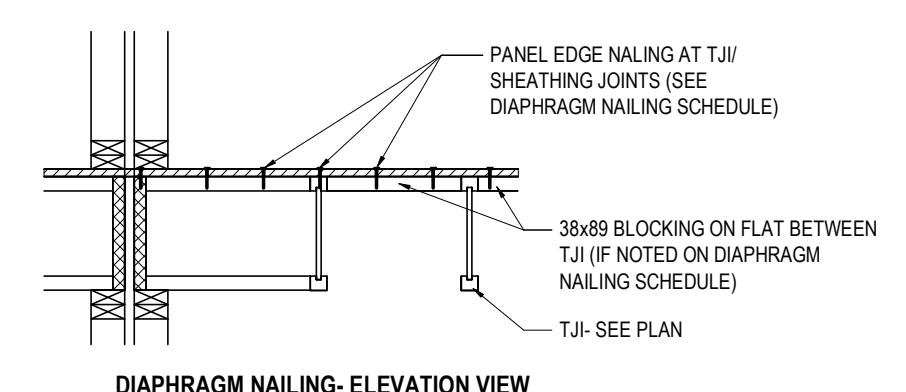
WOOD BEAM SCHEDULE 'B'		
TYPE	SIZE	REMARKS
'B1'	3-2x10	SPF No.1/No.2 BUILT-UP
'B2'	133x241	2.2E PSL OR 2.0E LVL
'B3'	89x302	2.2E PSL OR 2.0E LVL
'B4'	133x302	2.2E PSL OR 2.0E LVL
'B5'	178x302	2.2E PSL OR 2.0E LVL

WOOD BEARING WALL SCHEDULE

WALL TYPE	SECOND FLOOR FRAMING (MAIN FLOOR WALLS)	THIRD FLOOR FRAMING (SECOND FLOOR WALLS)	ROOF FRAMING (THIRD FLOOR WALLS)	GRADE
EXTERIOR WALLS	2x6 @ 400mm O/C CW 10mm OSB SHEATHING. PROVIDE BLOCKING @ SHEATHING JOINTS	2x6 @ 400mm O/C CW 10mm OSB SHEATHING. PROVIDE BLOCKING @ SHEATHING JOINTS	2x6 @ 400mm O/C CW 10mm OSB SHEATHING. PROVIDE BLOCKING @ SHEATHING JOINTS	SPF No.2 OR BETTER
LOAD BEARING PARTY / SHEAR WALLS (EACH WALL)	2x4 @ 300mm O/C CW MID-HEIGHT BLOCKING (EACH WALL). AT SHEAR WALLS, PROVIDE 10mm OSB SHEATHING ON ONE SIDE AND BLOCKING AT ALL HORIZONTAL SHEATHING JOINTS.	2x4 @ 400mm O/C CW MID-HEIGHT BLOCKING (EACH WALL). AT SHEAR WALLS, PROVIDE 10mm OSB SHEATHING ON ONE SIDE AND BLOCKING AT ALL HORIZONTAL SHEATHING JOINTS.	N/A	SPF No.2 OR BETTER
STAIRWELL WALLS	2x6 @ 400mm O/C CW 2 ROWS OF BLOCKING	2x6 @ 400mm O/C CW MID HEIGHT BLOCKING	N/A	SPF No.2 OR BETTER
INTERIOR WALLS (WT1)	N/A	N/A	2x4 @ 400mm O/C CW MID-HEIGHT BLOCKING	SPF No.2 OR BETTER

- ALL WALL TYPES ARE TYPICAL UNLESS NOTED OTHERWISE.
- WALL TYPES INDICATED REPRESENT BEARING WALLS BELOW.
- WALL VERTICAL ALIGNMENT TO BE WITHIN 13mm OVER ENTIRE HEIGHT OF BUILDING TYPICAL ALL LOAD BEARING WALLS.
- ALL TOP & BOTTOM CONT. PLATES TO BE SPF No.2.

LEVEL	SHEATHING TYPE	FASTENER TYPE	DIAPHRAGM NAILING SCHEDULE (FLOOR / ROOF SHEATHING)		
			FASTENER SPACING	PANEL EDGES	INTERMEDIATE MEMBERS
ROOF FRAMING	11mm T&G OSB	8d COMMON WIRE NAILS (0.131x2.51 NAILED AND GLUED)	100mm	300mm	NO
3rd FLOOR FRAMING	19mm T&G OSB		150mm	300mm	NO
2nd FLOOR FRAMING	19mm T&G OSB		150mm	300mm	NO



DIAPHRAGM NAILING- ELEVATION VIEW

SHEARWALL NAILING REQUIREMENTS				
LEVEL	NAIL LENGTH	OSB THICKNESS	NAIL SPACING	
			PANEL EDGES	INTERIOR STUD LOCATIONS
ROOF	64mm	10mm	100mm	250mm
3RD FLOOR	64mm	10mm	100mm	250mm
2ND FLOOR	64mm	10mm	100mm	250mm

TYPICAL WALL STUD SPACING			
WALL HEIGHT	STUD SPACING	GRADE	
STUDS UP TO 15'	2x6 @ 400mm O/C	SPF No.2	
STUDS UP TO 18'	2-2x6 @ 400mm O/C	SPF No.2	

AB Sixplex 01

PROJECT NO: 02500462

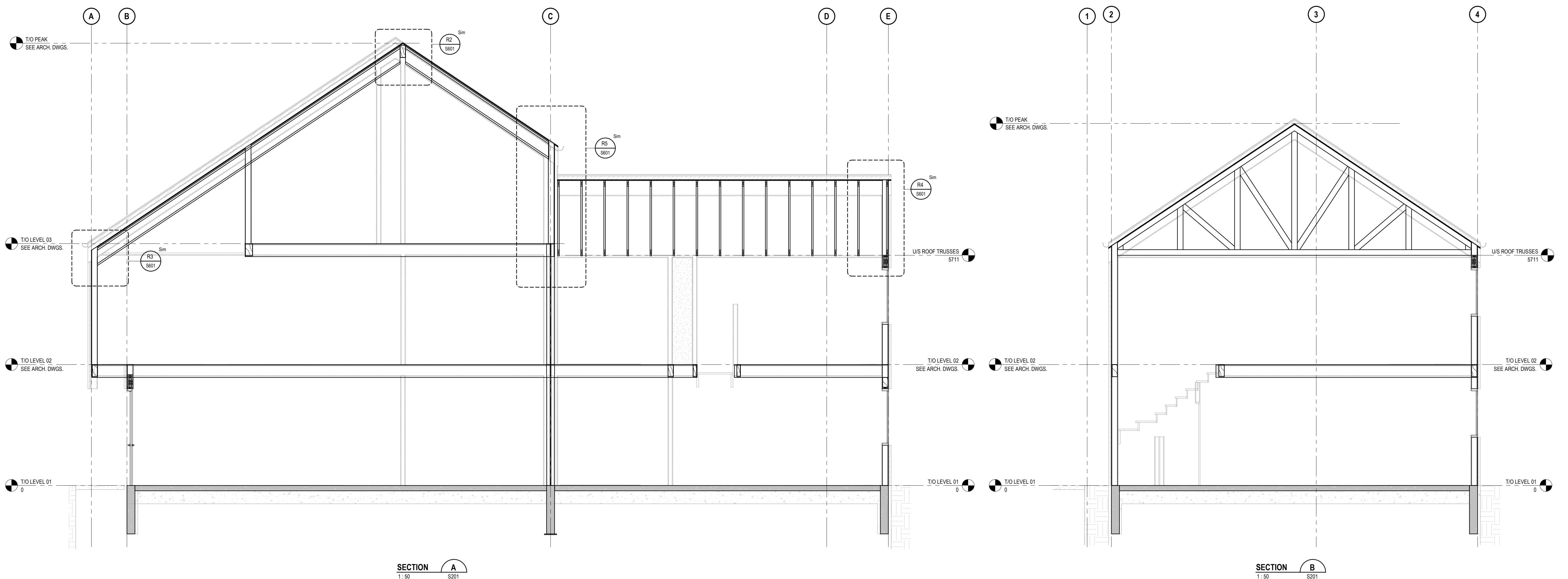
SCALE: As indicated

SHEET NO:

S302

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2 2025-02-19 ISSUED FOR PROTOTYPICAL DRAWING
NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:
BUILDING SECTIONS

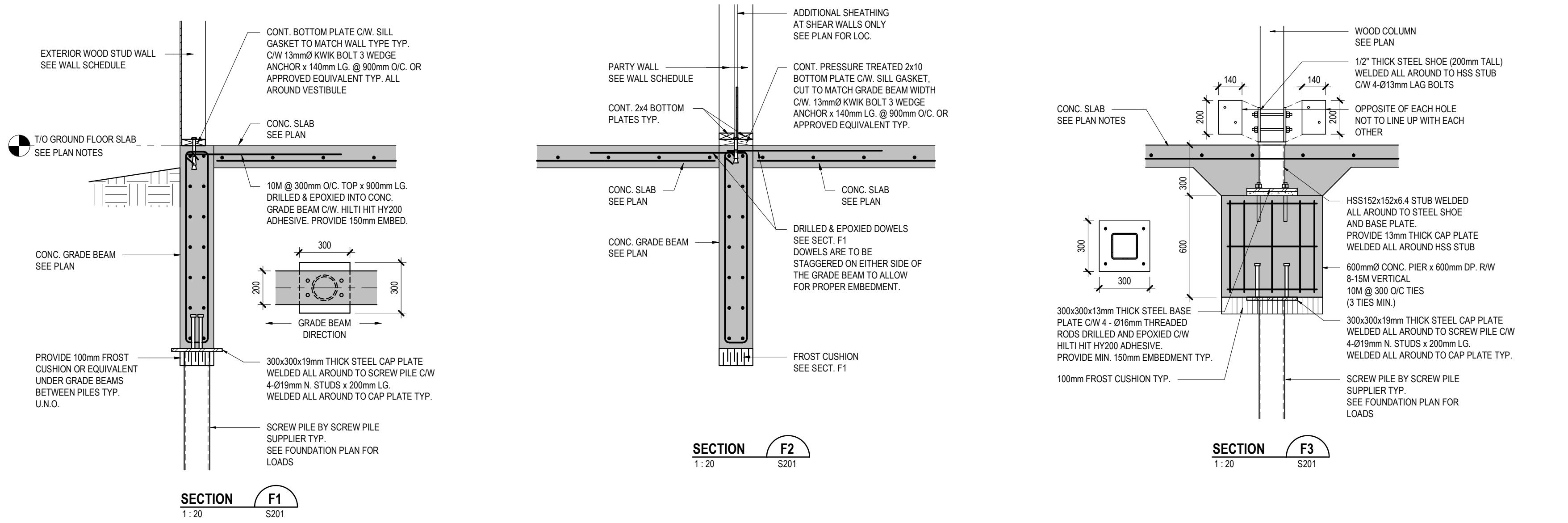
AB Sixplex 01

PROJECT NO: 02500462
SCALE: 1:50

SHEET NO:

S303

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2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:
TYPICAL FOUNDATION SECTIONS

AB Sixplex 01

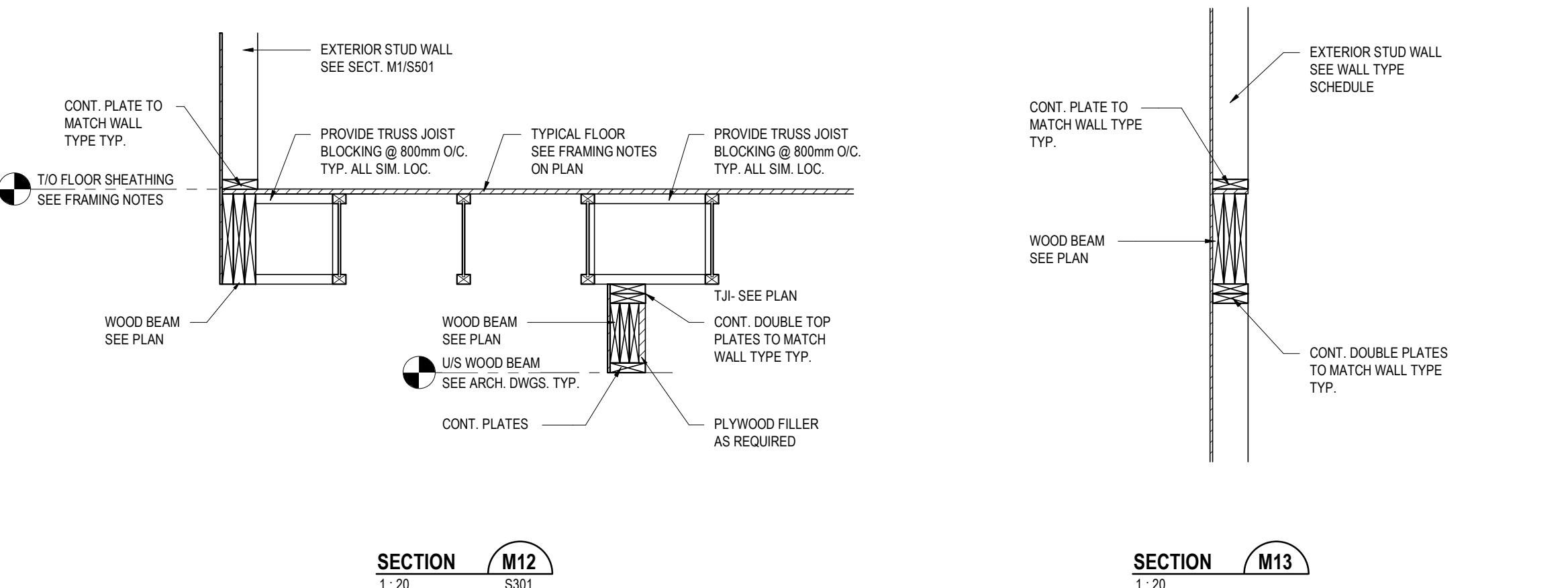
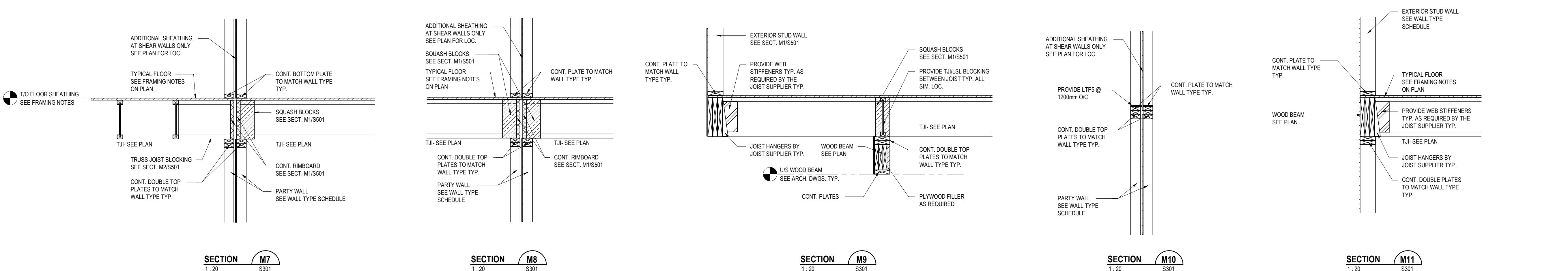
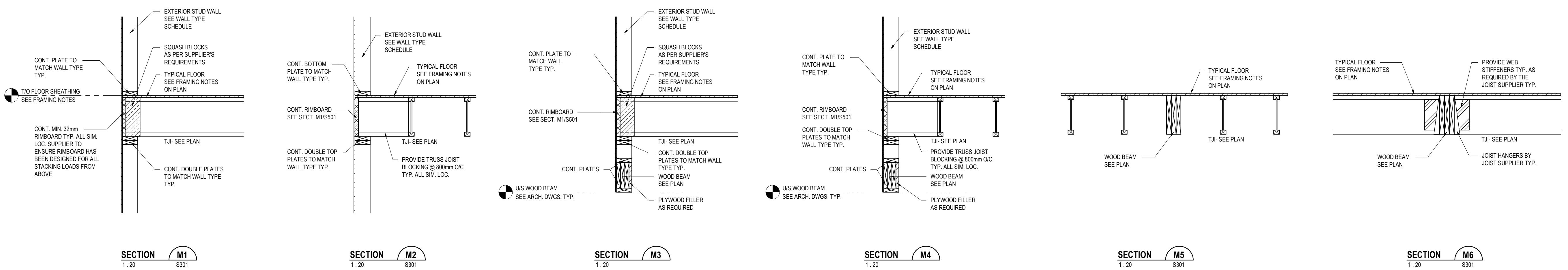
PROJECT NO: 02500462
 SCALE: 1:20

SHEET NO:

S401

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2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:
**TYPICAL FLOOR
SECTIONS**

AB Sixplex 01

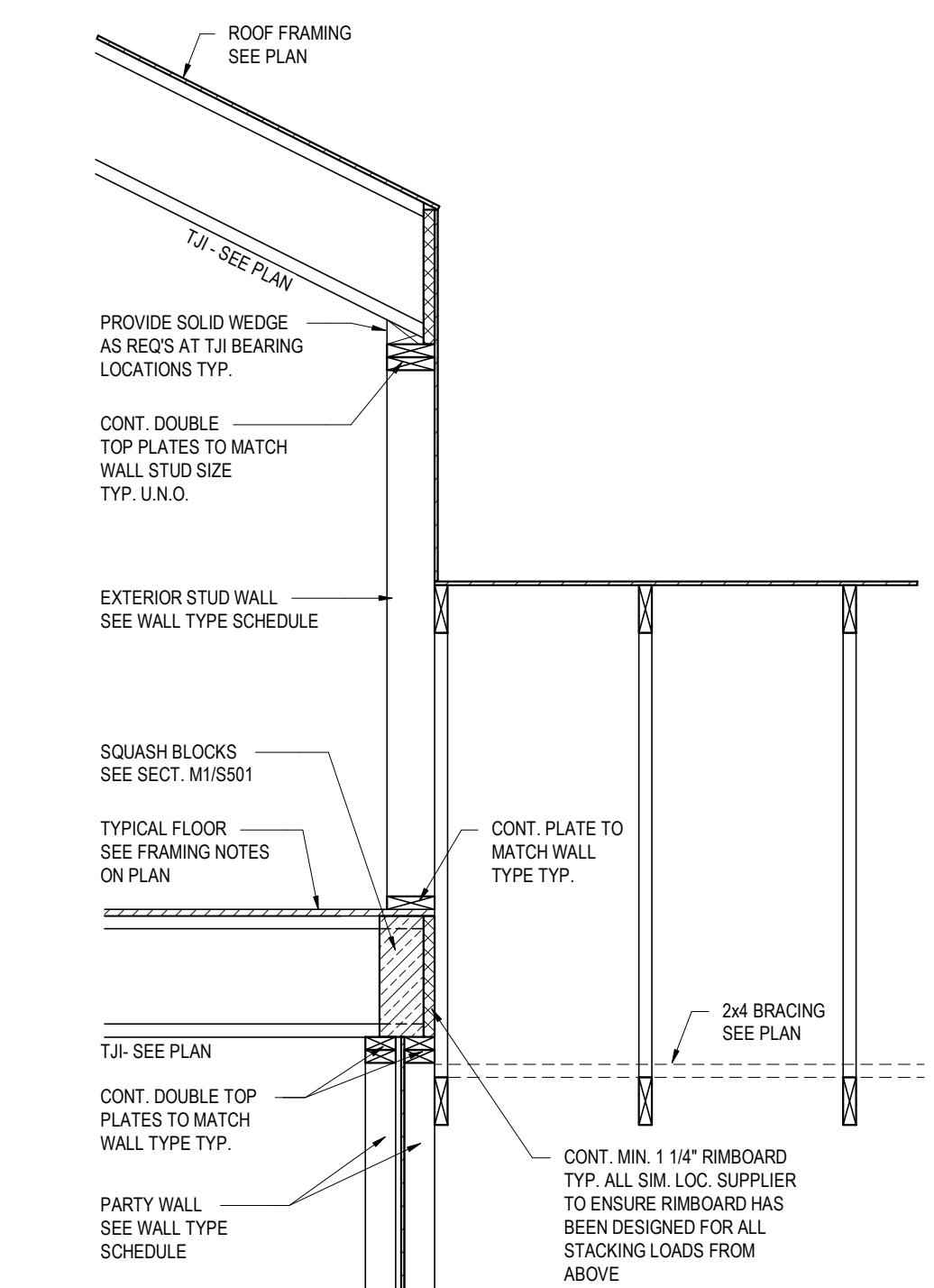
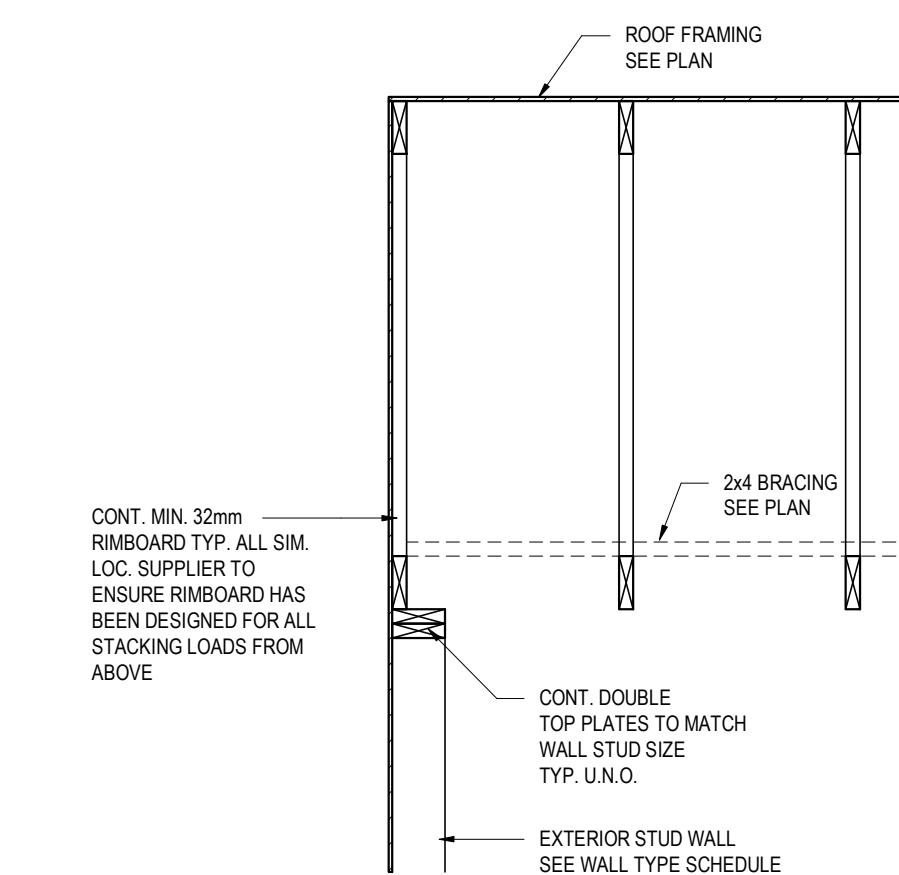
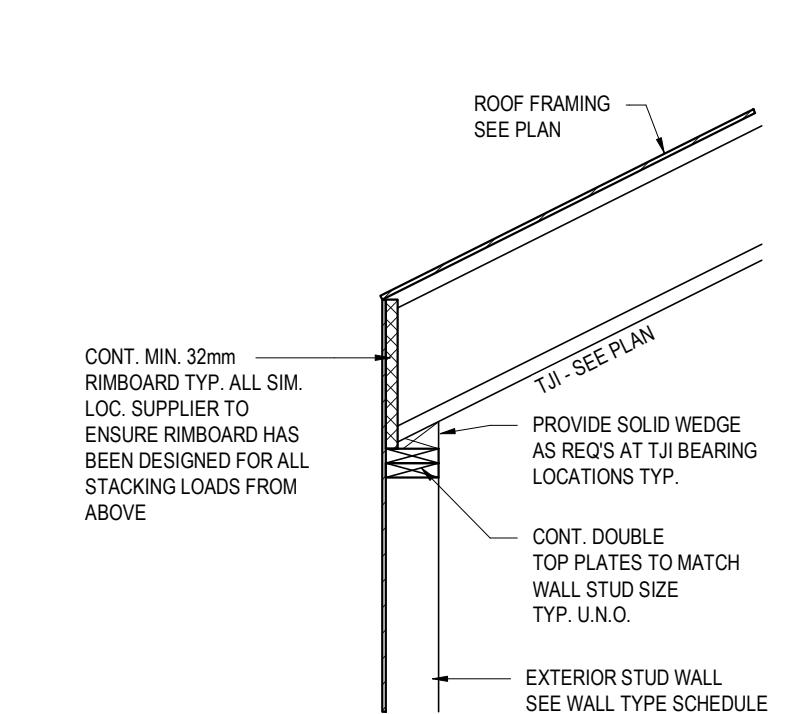
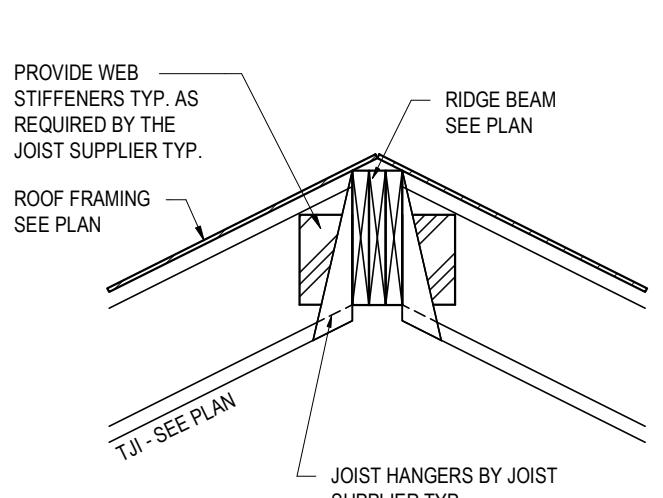
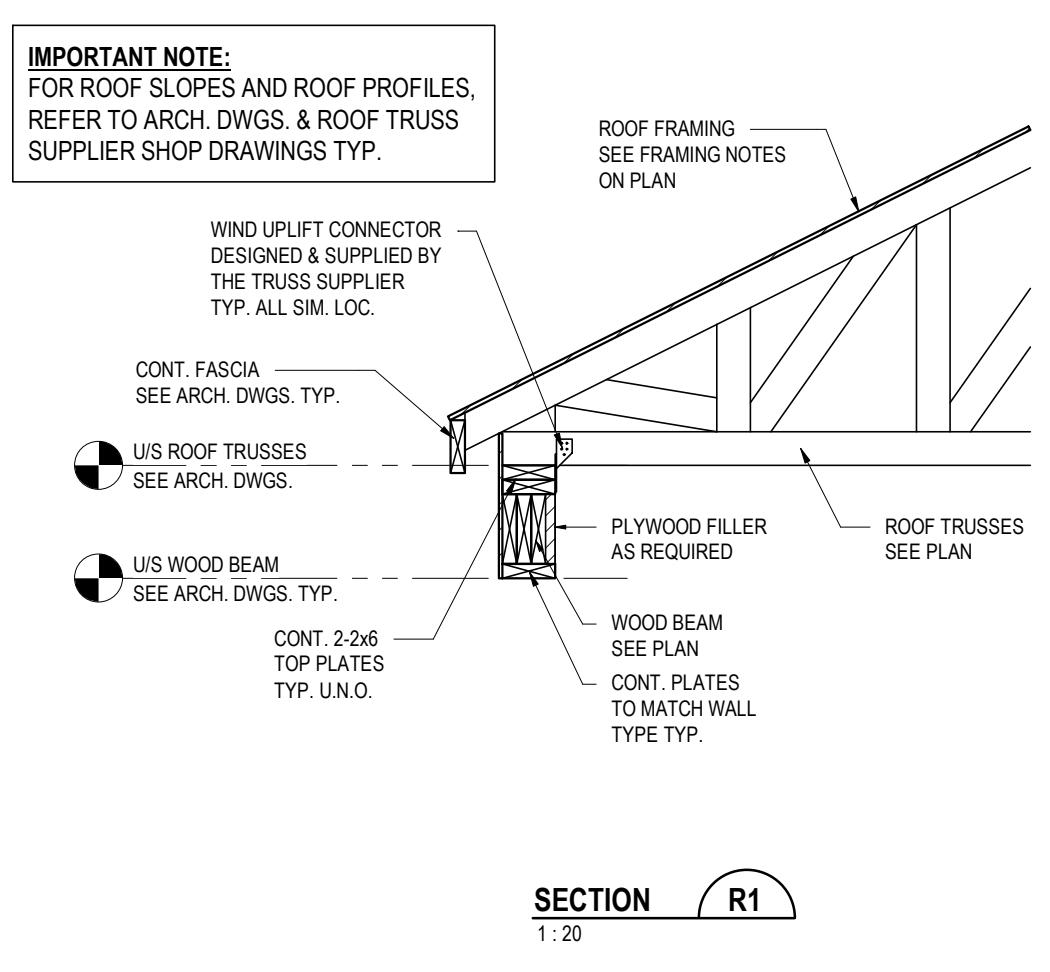
PROJECT NO: 02500462
SCALE: 1:20

SHEET NO:

S501

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SECTION R5

2	2025-02-19	ISSUED FOR PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

ALBERTA, CANADA

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SHEET TITLE:
TYPICAL ROOF SECTIONS

AB Sixplex 01

PROJECT NO: 02500462
SCALE: 1:20

SHEET NO:

S601



CMHC HOUSING DESIGN CATALOGUE

AB SIXPLEX

MECHANICAL DRAWINGS

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MECHANICAL SHEET LIST 6 PLEX 01	
NO.	SHEET NAME
M000	MECHANICAL COVER SHEET
M001	MECHANICAL LEGENDS
M100	FOUNDATION PLAN
M101	GROUND FLOOR PLUMBING PLAN
M102	SECOND FLOOR PLUMBING PLAN
M103	THIRD FLOOR PLUMBING PLAN
M201	GROUND FLOOR VENTILATION PLAN
M202	SECOND FLOOR VENTILATION PLAN
M203	THIRD FLOOR VENTILATION PLAN
M300	MECHANICAL SCHEMATICS & DETAILS
M400	MECHANICAL SCHEDULES
M500	MECHANICAL SPECIFICATIONS

1	2025-02-21	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

Project Address

NOT FOR PERMIT
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SHEET TITLE:
MECHANICAL COVER
SHEET

AB Sixplex

PROJECT NO: 024-07-769
SCALE:

SHEET NO:
M000

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MECHANICAL LEGEND	
NOTE: SOME SYMBOL REFERENCES MAY NOT BE USED ON THIS PROJECT	
LINETYPES	
— - - - -	CONTROLS WIRING
— SAN —	SANITARY PIPING
— STM —	STORM PIPING
— - - V - - -	SANITARY VENT BRANCH PIPING
— - - V - - ->	SANITARY VENT UP TO NEXT LEVEL
— - - V - - -<	SANITARY VENT UP THROUGH ROOF
— - -	DOMESTIC COLD WATER PIPING
— - -	DOMESTIC HOT WATER PIPING
— - -	DOMESTIC HOT WATER RECIRC. PIPING
— G —	NATURAL GAS PIPING
— C —	CONDENSATE PIPING
— RS —	REFRIGERANT SUPPLY PIPING
— RR —	REFRIGERANT RETURN PIPING
PLUMBING	
—>	PIPE FLOW ARROW
—>—	PIPE CAP
—>—	PIPE CONNECTION
—>—	PIPE DROP
—>—	PIPE RISE
—>—	PIPE TEE (BELOW)
—>—	PIPE TEE (ABOVE)
—>—	SANITARY P-TRAP
—>—	RUNNING P-TRAP
—>—	HEAT TRACING
—>—	FLOOR DRAIN
—>—	ROOF DRAIN
—>—	HOSE BIBB
—>—	CLEANOUT
—>—	BUILDING CLEANOUT
—>—	GAS METER
—>—	WATER METER
—>—	THRUST BLOCK
CONTROLS	
—>—	CO = CARBON MONOXIDE
—>—	THERMOSTAT (COVER/NO COVER)
—>—	WALL SWITCH (ON-OFF/VARIABLE)
TAGS	
TYPE	S-1
NECK (mm)	200 ^b
FLOW (L/s)	120
DETAIL NUMBER	1
DRAWING NUMBER	MX
SECTION/ELEVATION	REFERENCE
DETAIL NUMBER	1
DRAWING NUMBER	MX
P-1	EQUIPMENT TAG
KEYNOTE	REFERENCE
VENTILATION	
—>—	OUTDOOR AIR DUCT UP/DOWN
—>—	SUPPLY AIR DUCT UP/DOWN
—>—	RETURN AIR DUCT UP/DOWN
—>—	EXHAUST AIR DUCT UP/DOWN
—>—	ROUND DUCT UP/DOWN
—>—	ACOUSTIC DUCT INSULATION
—>—	BALANCING DAMPER
—>—	BD = BACKDRAFT DAMPER
—>—	FD = FIRE DAMPER
—>—	SD = SMOKE DAMPER
—>—	SIDEWALL GRILLE
—>—	SQUARE DIFFUSER C/W TAKEOFF AND BALANCING DAMPER
—>—	ROUND DIFFUSER C/W TAKEOFF AND BALANCING DAMPER
—>—	TURNING VAVES
FIRE PROTECTION	
—>—	FIRE EXTINGUISHER
SCHEMATICS	
—>—	HOSE END WITH CAP & CHAIN FOR DRAINING
—>—	FLEX PIPE CONNECTION
—>—	2-WAY CONTROL VALVE
—>—	3-WAY CONTROL VALVE
—>—	BACKFLOW PREVENTER
—>—	NORMALLY OPEN BACKWATER VALVE
—>—	CIRCUIT BALANCING/MEASUREMENT VALVE
—>—	CHECK VALVE
—>—	ISOLATION VALVE
—>—	MANUAL BALANCING VALVE
—>—	PRESSURE/TEMPERATURE PORT
—>—	PRESSURE REGULATING VALVE
—>—	SOLENOID VALVE
—>—	UNION
—>—	AIR SEPARATOR
—>—	AIR VENT - AUTOMATIC
—>—	AIR VENT - AUTOMATIC
—>—	CARTRIDGE FILTER
—>—	PUMP
—>—	WYE STRAINER C/W BALL VALVE, CAP & CHAIN
—>—	PRESSURE SAFETY VALVE
—>—	PRESSURE GAUGE C/W ISOLATION
—>—	TEMPERATURE GAUGE
—>—	TS = TEMPERATURE SWITCH
—>—	CENTRIFUGAL FAN

ABBREVIATIONS	
BT	BATHTUB
CO	CLEANOUT
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DWH	DOMESTIC WATER HEATER
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
F/A	"FROM ABOVE"
F/B	"FROM BELOW"
FD	FLOOR DRAIN
FN	FURNACE
GSV	GAS SHUTOFF VALVE
HB	HOSE BIBB
LAV	LAVATORY
NC	"NORMALLY CLOSED"
NO	"NORMALLY OPEN"
P	PUMP
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RH	KITCHEN RANGE HOOD
SH	SHOWER
SK	SINK
T/A	"TO ABOVE"
T/B	"TO BELOW"
UNO	"UNLESS NOTED OTHERWISE"
UTR	"UP THROUGH ROOF"
WC	WATER CLOSEST

SITE-SPECIFIC DESIGN REQUIREMENTS

ALL SITE-SPECIFIC ELEMENTS TO BE REVIEWED & DESIGNED BY THE RESPONSIBLE DESIGN PROFESSIONAL ISSUING THE DRAWINGS FOR PERMIT & CONSTRUCTION AT THE LOCATION DETERMINED. THIS INCLUDES:

- 1 SITE SERVICING: INCOMING WATER, GAS, SANITARY & STORM SEWER CONNECTIONS TO BE CONFIRMED FOR SITE.
- 2 ENERGY EFFICIENCY: ISSUING DESIGN PROFESSIONAL TO REVIEW & CONFIRM ALL RELEVANT SITE DATA INCLUDING CLIMATE ZONE, HEATING/COOLING DEGREE DAYS, ORIENTATION, ADJACENT BUILDINGS (ROW/HOUSING), MECHANICAL SYSTEM, ENVELOPE & GLAZING PERFORMANCE IN ORDER TO ACCURATELY DETERMINE:
 - i. EQUIPMENT SIZING FURNACE, AIR CONDITIONING, AND/OR HEAT PUMP CAPACITIES & ASSOCIATED DUCT SIZING TO BE DESIGNED & REVIEWED BY THE ISSUING DESIGN PROFESSIONAL IN ACCORDANCE WITH THE LOCAL CLIMATIC CONDITIONS AS OUTLINED ABOVE.

1	2025-02-21	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

Project Address

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:
MECHANICAL LEGENDS

AB Sixplex

PROJECT NO: 024-07-769
SCALE: 1:1

SHEET NO:

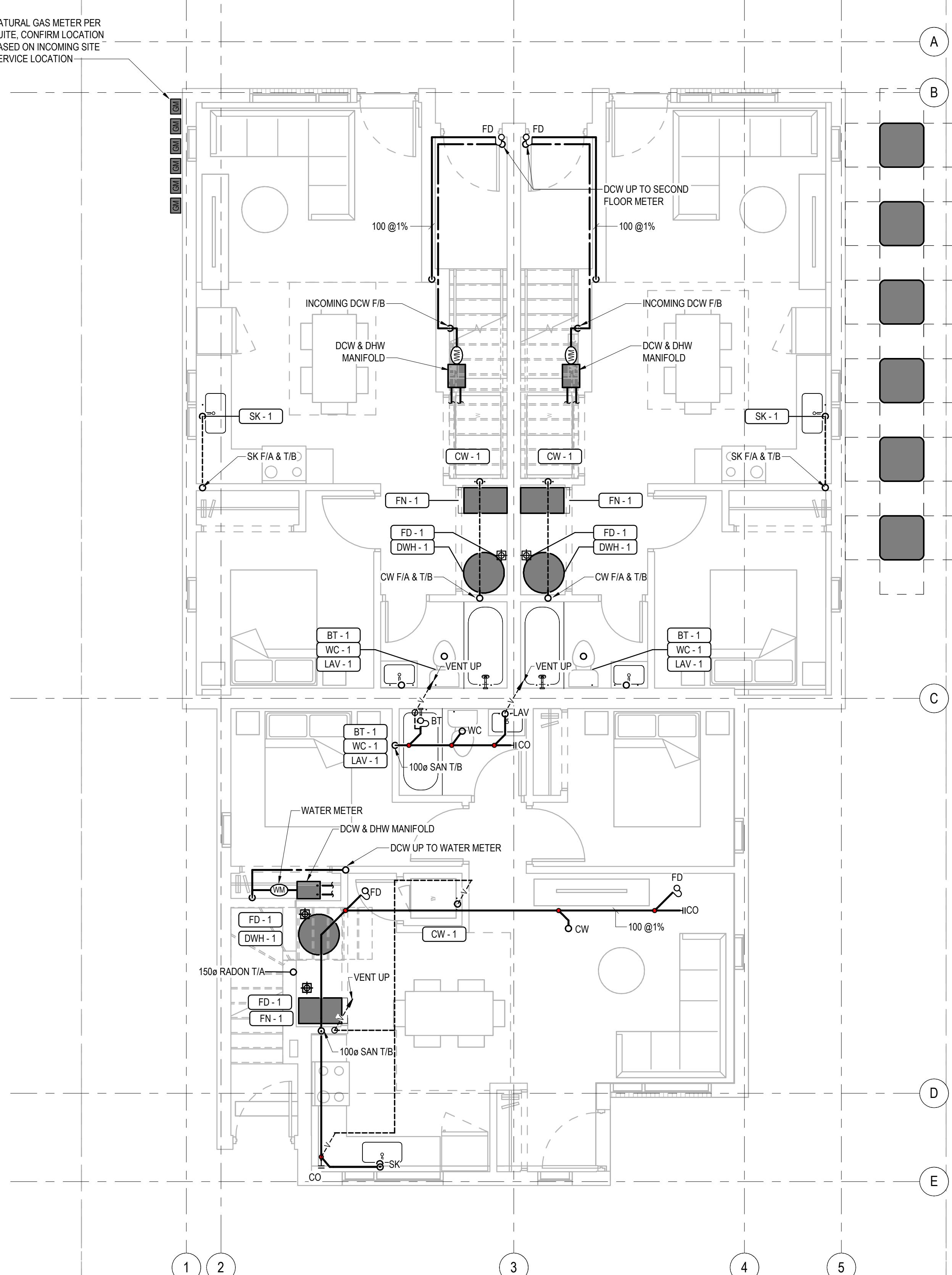
M001

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PLUMBING GENERAL NOTES

- 1 RUN INDIVIDUAL DOMESTIC HOT WATER AND COLD WATER LINES TO ALL PLUMBING FIXTURES AS REQUIRED.
- 2 NATURAL GAS METERS TO BE LOCATED A MINIMUM OF 3.0M AWAY FROM ANY OPERABLE WINDOWS OR DOORS.
- 3 INSTALL NATURAL GAS PIPING FROM THE UTILITY METER TO ALL GAS-FIRED APPLIANCES IN ACCORDANCE WITH CSA B149.1.


GROUND FLOOR PLUMBING TYPE C

M101
SCALE: 1:50
0 1250 2500

1	2025-02-21	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

Project Address

**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE:
GROUND FLOOR
PLUMBING PLAN

AB Sixplex

PROJECT NO: 024-07-769
SCALE: 1:50

SHEET NO:

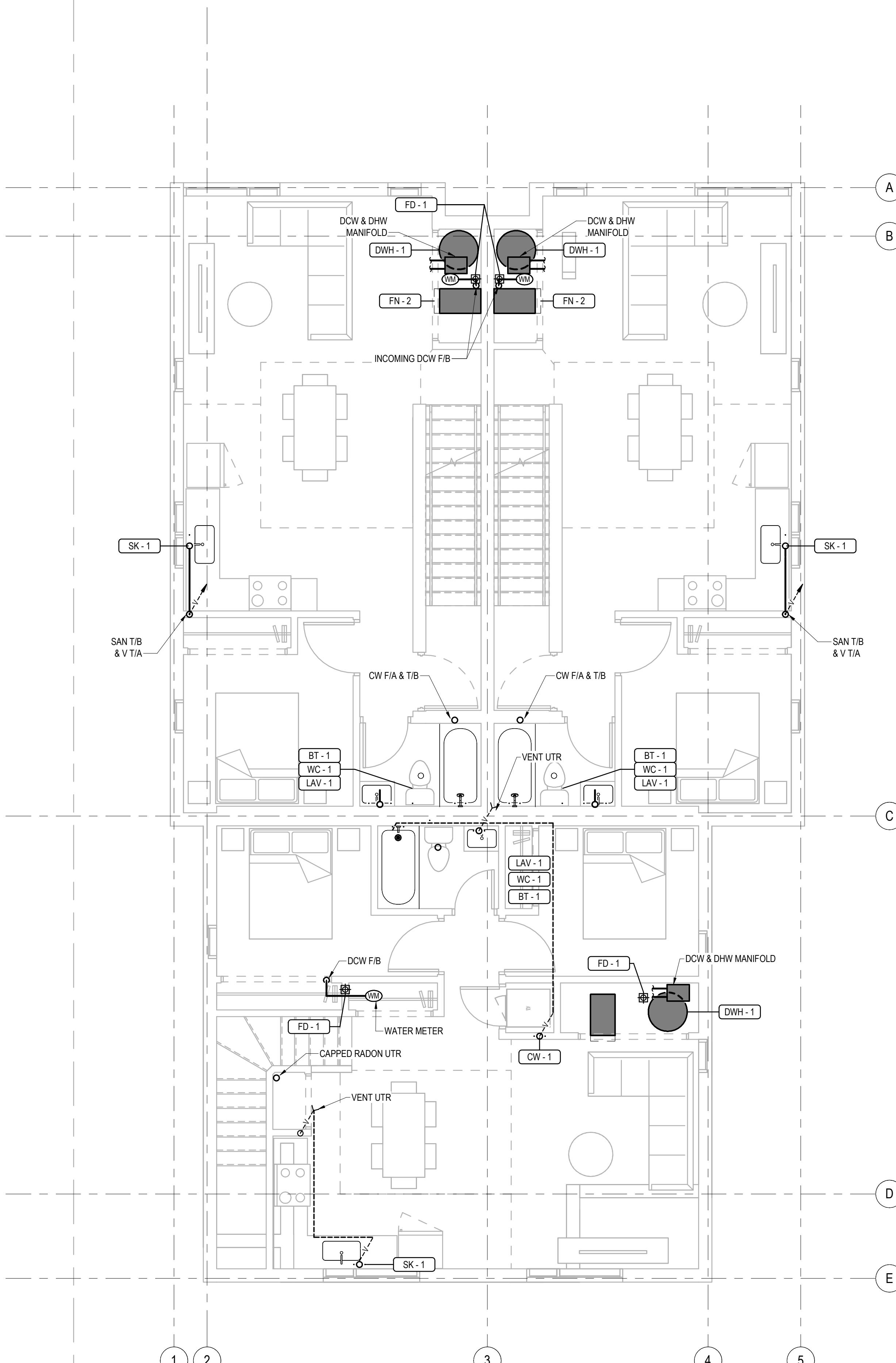
M101

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PLUMBING GENERAL NOTES

- 1 RUN INDIVIDUAL DOMESTIC HOT WATER AND COLD WATER LINES TO ALL PLUMBING FIXTURES AS REQUIRED.
- 2 NATURAL GAS METERS TO BE LOCATED A MINIMUM OF 3.0M AWAY FROM ANY OPERABLE WINDOWS OR DOORS.
- 3 INSTALL NATURAL GAS PIPING FROM THE UTILITY METER TO ALL GAS-FIRED APPLIANCES IN ACCORDANCE WITH CSA B149.1.


1 **SECOND FLOOR PLUMBING TYPE C**
M102 SCALE: 1:50



1	2025-02-21	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

Project Address

NOT FOR PERMIT OR CONSTRUCTION
SHEET TITLE:
SECOND FLOOR PLUMBING PLAN

AB Sixplex

 PROJECT NO: 024-07-769
 SCALE: 1:50

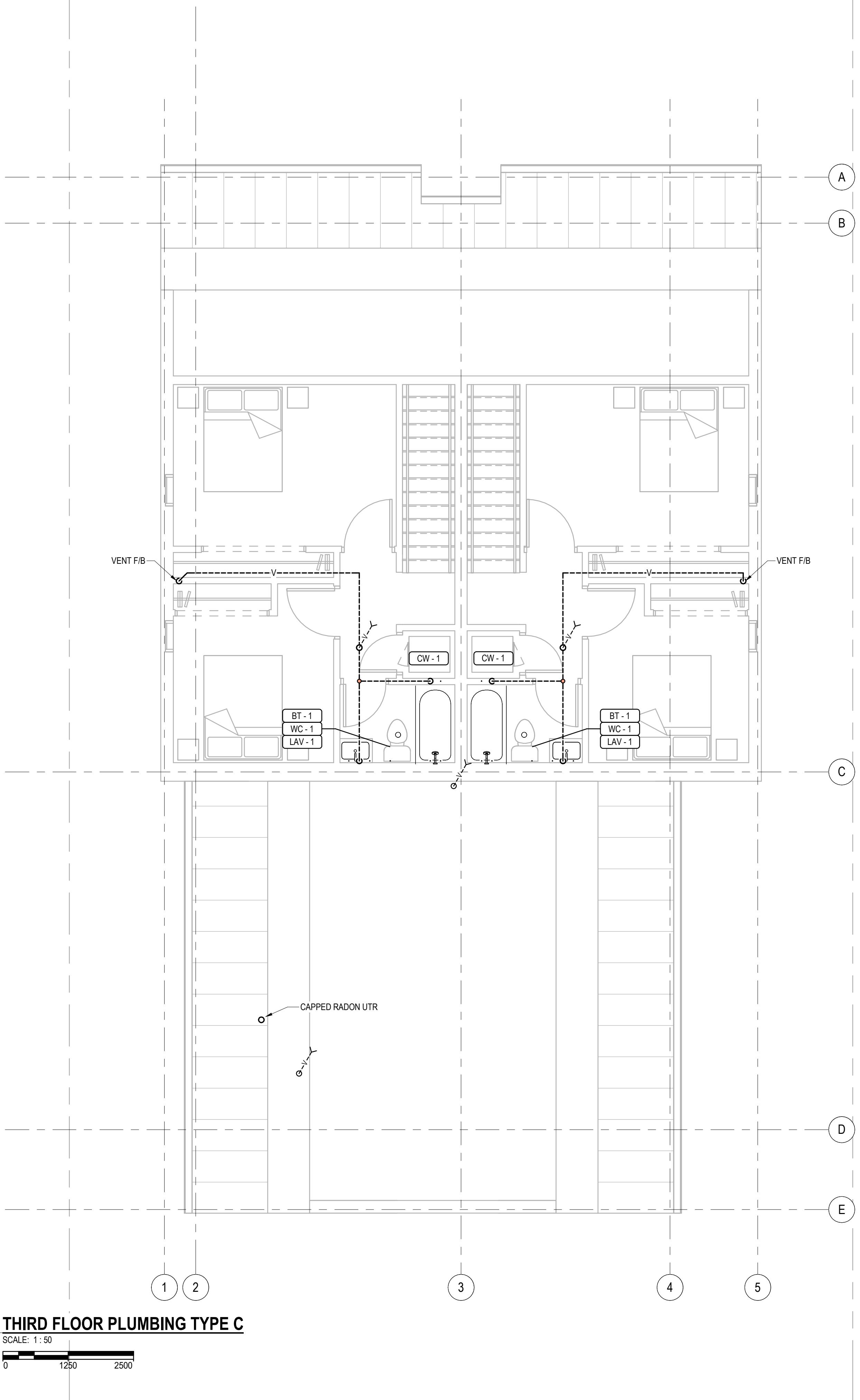
SHEET NO:
M102

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PLUMBING GENERAL NOTES

- 1 RUN INDIVIDUAL DOMESTIC HOT WATER AND COLD WATER LINES TO ALL PLUMBING FIXTURES AS REQUIRED.
- 2 NATURAL GAS METERS TO BE LOCATED A MINIMUM OF 3.0M AWAY FROM ANY OPERABLE WINDOWS OR DOORS.
- 3 INSTALL NATURAL GAS PIPING FROM THE UTILITY METER TO ALL GAS-FIRED APPLIANCES IN ACCORDANCE WITH CSA B149.1.



1 THIRD FLOOR PLUMBING TYPE C
M103

SCALE: 1:50

0 1250 2500

1 2025-02-21 ISSUED AS PROTOTYPICAL DRAWING
NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

Project Address

**NOT FOR PERMIT
OR CONSTRUCTION**

SHEET TITLE:
THIRD FLOOR PLUMBING
PLAN

AB Sixplex

PROJECT NO: 024-07-769
SCALE: 1:50

SHEET NO:
M103

DISCLAIMER

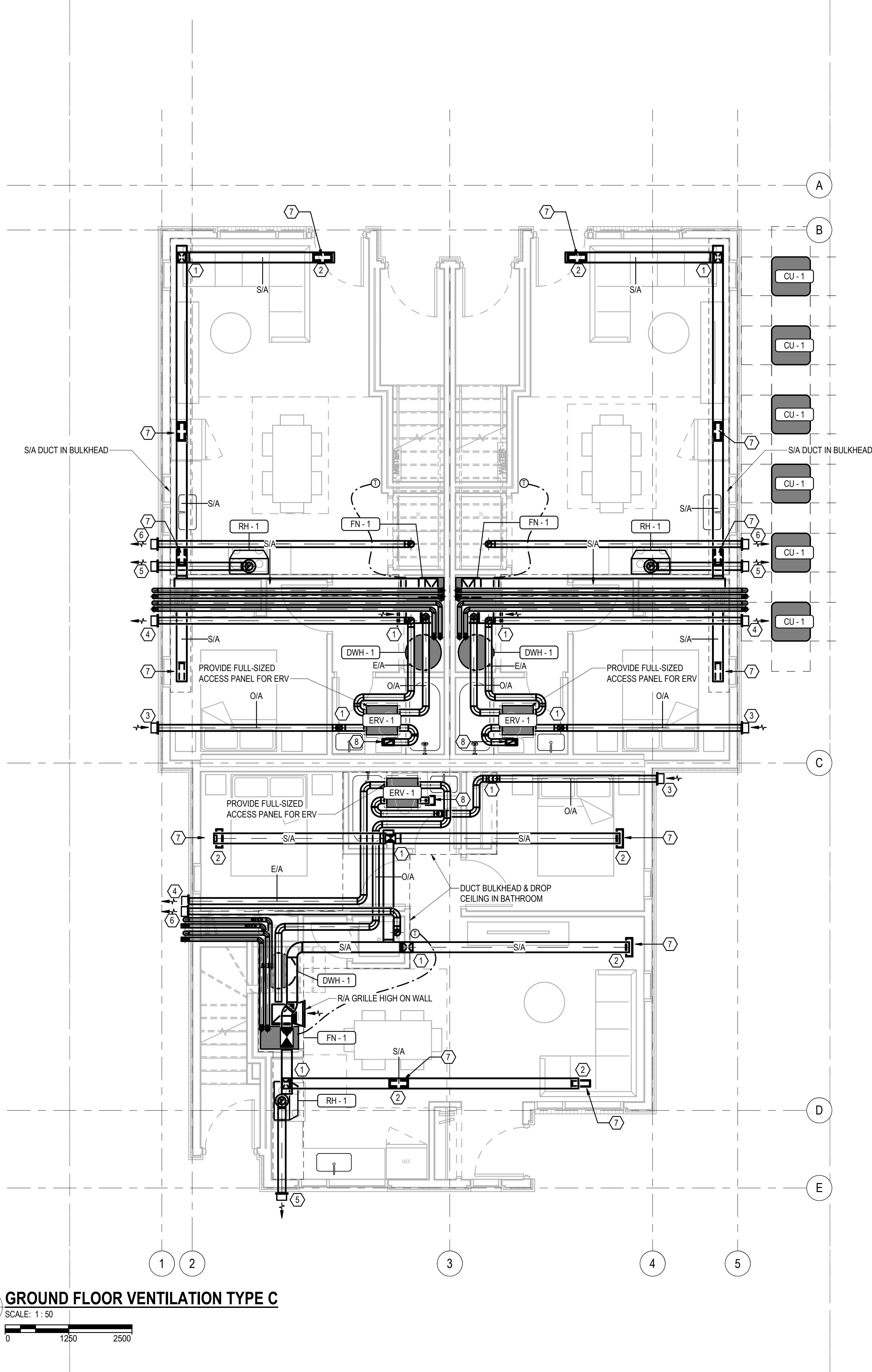
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VENTILATION GENERAL NOTES

1 SUPPLY AIR GRILLES TO BE COMPLETE WITH INTEGRAL OPPOSED-BLADE DAMPER FOR BALANCING.

M201 KEYNOTES

- 1 PROVIDE FIRE DAMPER AT DUCT PENETRATION INTO RATED JOIST SPACE
- 2 PROVIDE FIRE STOP FLAP AT GRILLES IN RATED CEILING
- 3 ERV O/A INTAKE - MAINTAIN MINIMUM 1800 CLEARANCE FROM ALL EXHAUSTS/VENTS
- 4 ERV E/A OUTLET
- 5 RH-1 E/A OUTLET
- 6 LAUNDRY E/A OUTLET
- 7 S/A GRILLE (CEILING)
- 8 BATHROOM E/A GRILLE



1 GROUND FLOOR VENTILATION TYPE C
M201

SCALE: 1:50

0 1250 2500

1 2025-02-21 ISSUED AS PROTOTYPICAL DRAWING
NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN
CATALOGUE

Project Address

NOT FOR PERMIT
OR CONSTRUCTION

SHEET TITLE:
GROUND FLOOR
VENTILATION PLAN

AB Sixplex

PROJECT NO: 024-07-769
SCALE: 1:50

SHEET NO:

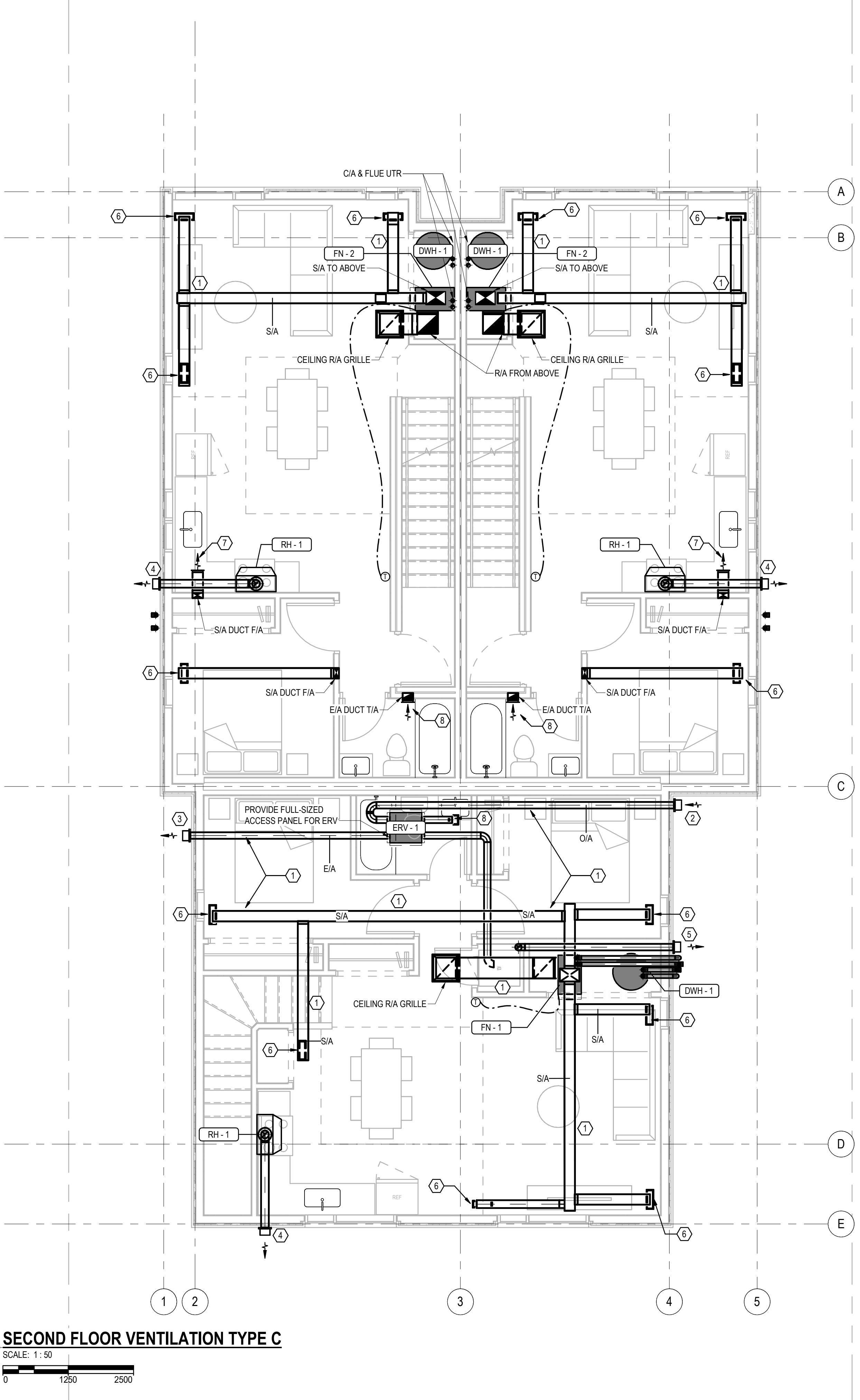
M201

VENTILATION GENERAL NOTES

1 SUPPLY AIR GRILLES TO BE COMPLETE WITH INTEGRAL
OPPOSED-BLADE DAMPER FOR BALANCING.

M202 KEYNOTES

- 1 INSULATE ALL DUCTS RUN IN ATTIC
- 2 ERV O/A INTAKE - MAINTAIN MINIMUM 1800 CLEARANCE FROM ALL EXHAUSTS/VENTS
- 3 ERV E/A OUTLET
- 4 RH-1 E/A OUTLET
- 5 LAUNDRY E/A OUTLET
- 6 S/A GRILLE (CEILING)
- 7 S/A GRILLE (WALL)
- 8 BATHROOM E/A GRILLE



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JECT:
**MHC HOUSING DESIGN
ATALOGUE**

NOT FOR PERMIT
OR CONSTRUCTION

SECOND FLOOR VENTILATION PLAN

LB Sixplex

OBJECT NO: 024-07-769
CALE: 1 : 50

STREET NO:

M202

DISCLAIMER

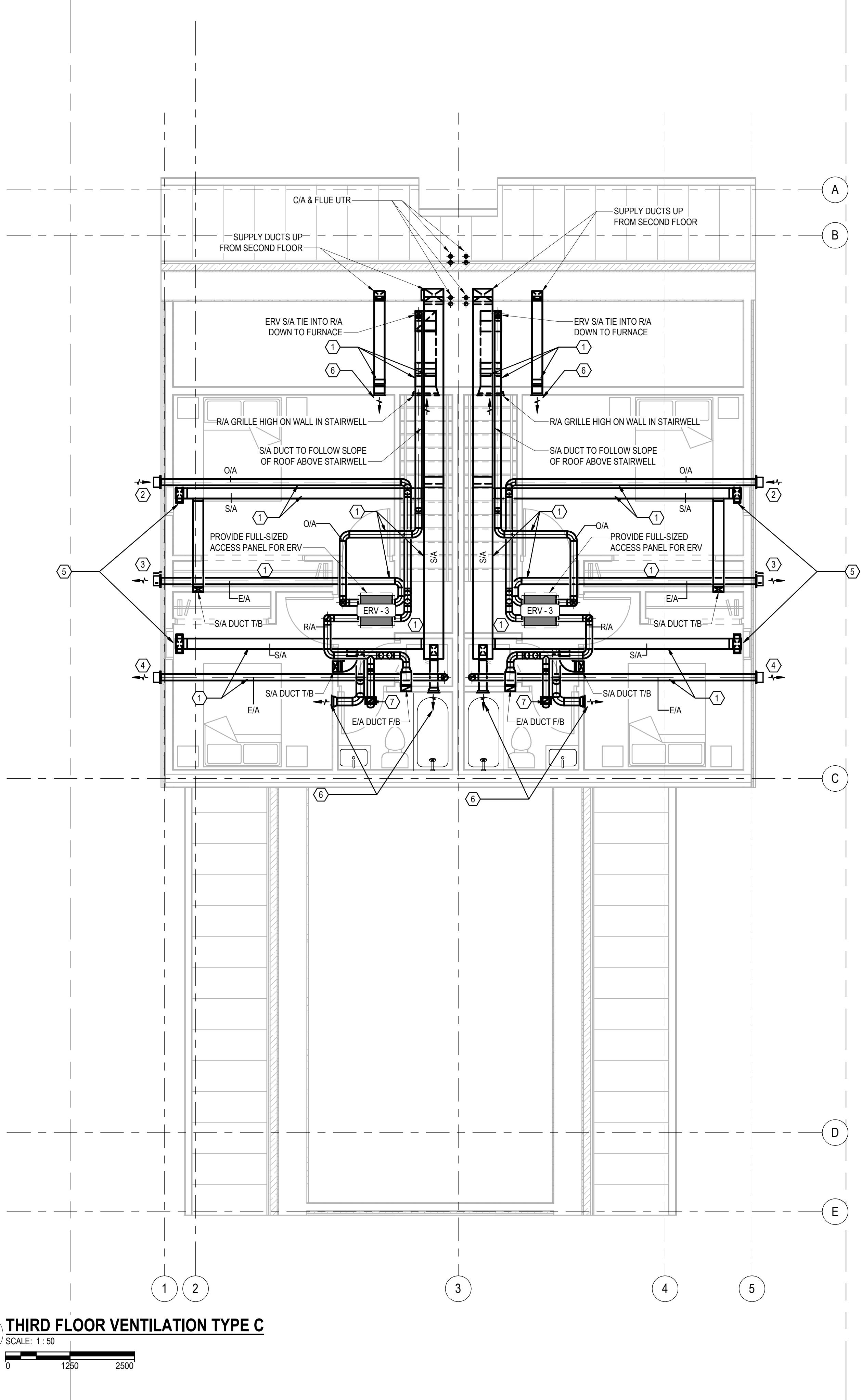
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VENTILATION GENERAL NOTES

1 SUPPLY AIR GRILLES TO BE COMPLETE WITH INTEGRAL OPPOSED-BLADE DAMPER FOR BALANCING.

M203C KEYNOTES

1 INSULATE ALL DUCTS RUN IN ATTIC
 2 ERV O/A INTAKE. MAINTAIN MINIMUM 1800 CLEARANCE FROM ALL EXHAUSTS/VENTS
 3 ERV E/A OUTLET
 4 LAUNDRY E/A OUTLET
 5 S/A GRILLE (CEILING)
 6 S/A GRILLE (WALL)
 7 BATHROOM E/A GRILLE


1 THIRD FLOOR VENTILATION TYPE C

M203
SCALE: 1:50

0 1250 2500

1 2025-02-21 ISSUED AS PROTOTYPICAL DRAWING
 NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

Project Address

NOT FOR PERMIT OR CONSTRUCTION

SHEET TITLE:
THIRD FLOOR VENTILATION PLAN

AB Sixplex

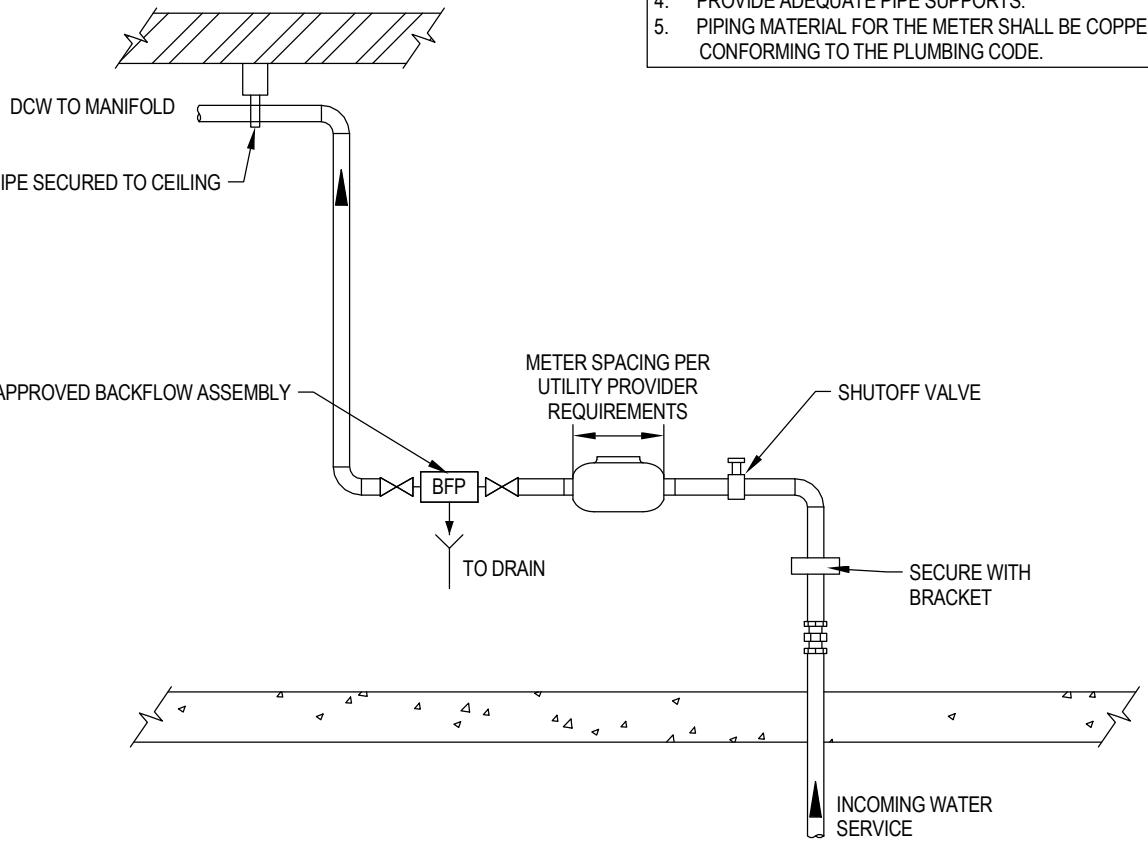
PROJECT NO: 024-07-769
 SCALE: 1:50

SHEET NO:
M203

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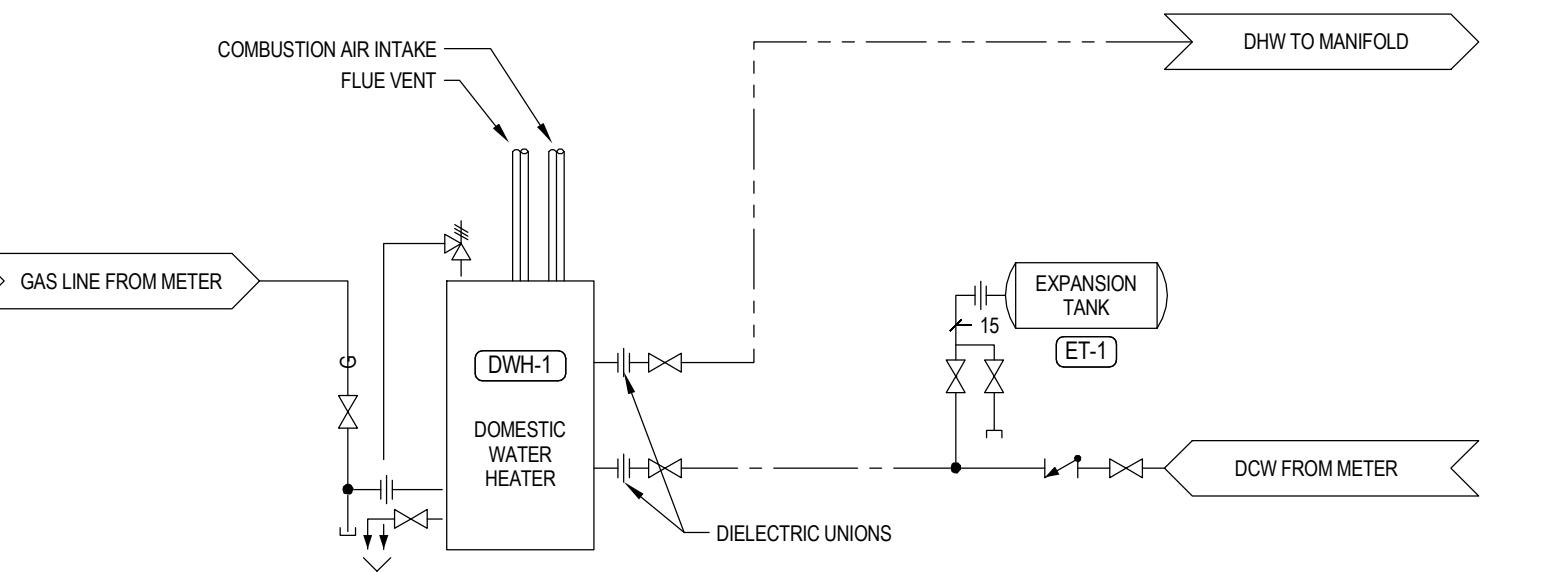
GENERAL NOTES:

1. SPACE FOR METER INSTALLATION TO BE AS REQUIRED BY UTILITY PROVIDER
2. APPROVED BACKFLOW ASSEMBLY, APPROPRIATE FOR THE HAZARD CLASSIFICATION MUST BE INSTALLED WITHIN 3m OF SERVICE ENTRY
3. PROVIDE A SUITABLE SITE FOR THE WATER METER AT A HORIZONTAL SETTING, WITHIN 2m OF POINT OF ENTRY FOR THE WATER SERVICE CONNECTION INSIDE THE BUILDING
4. PROVIDE APPROVED PIPE SUPPORTS
5. PIPING MATERIAL FOR THE METER SHALL BE COPPER OR STAINLESS STEEL CONFORMING TO THE PLUMBING CODE



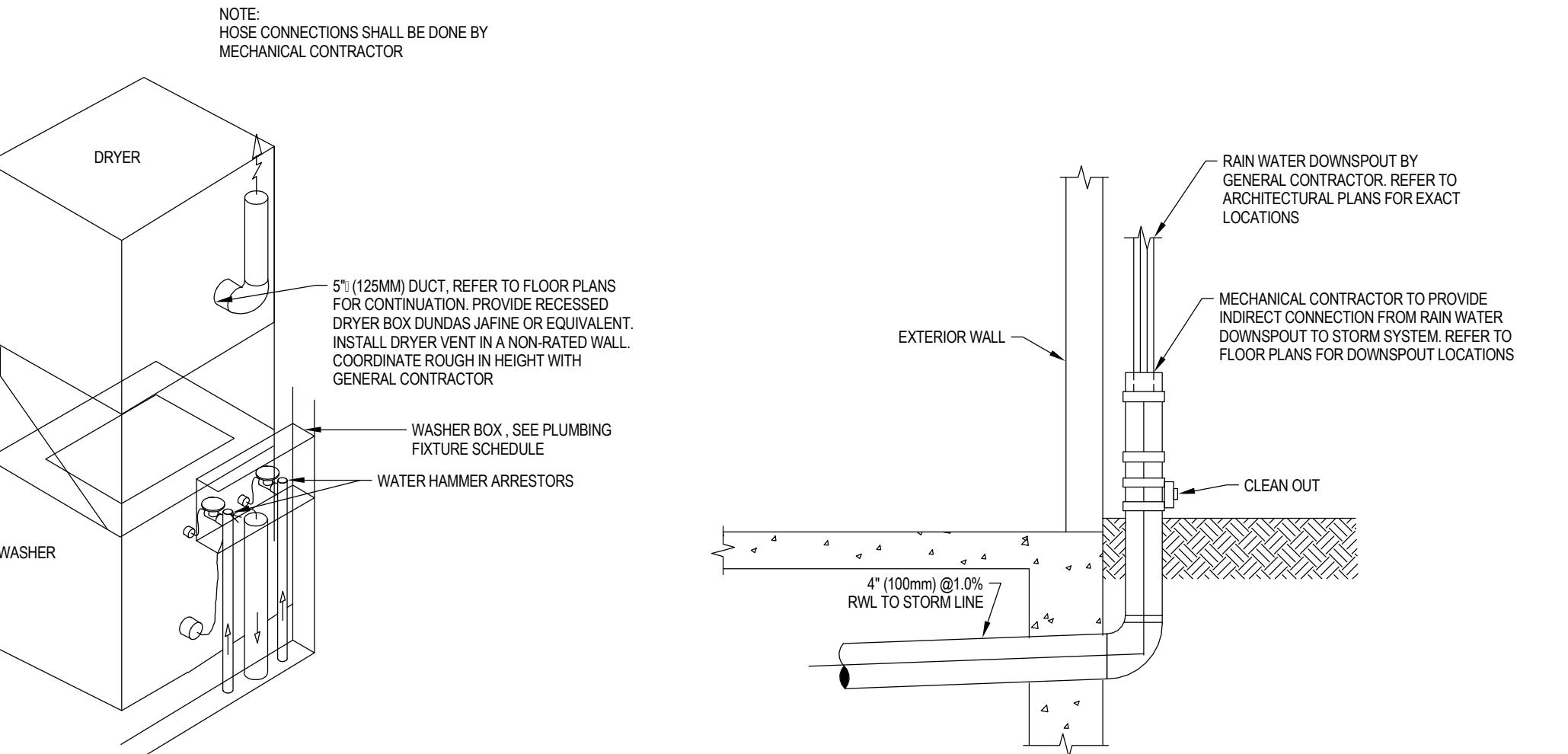
TYPICAL WATER METER INSTALLATION

SCALE: N.T.S



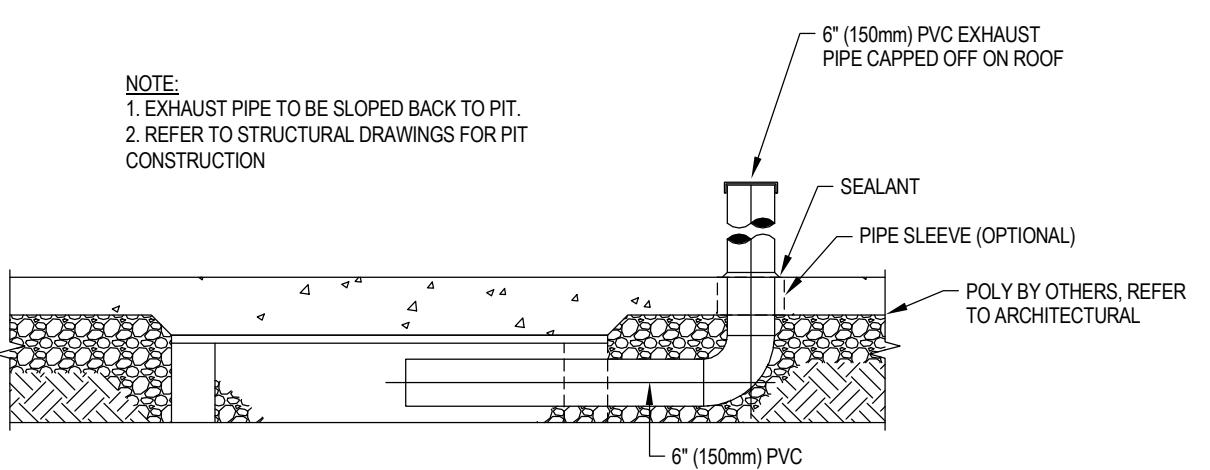
TYPICAL DOMESTIC WATER HEATER INSTALLATION

SCALE: N.T.S



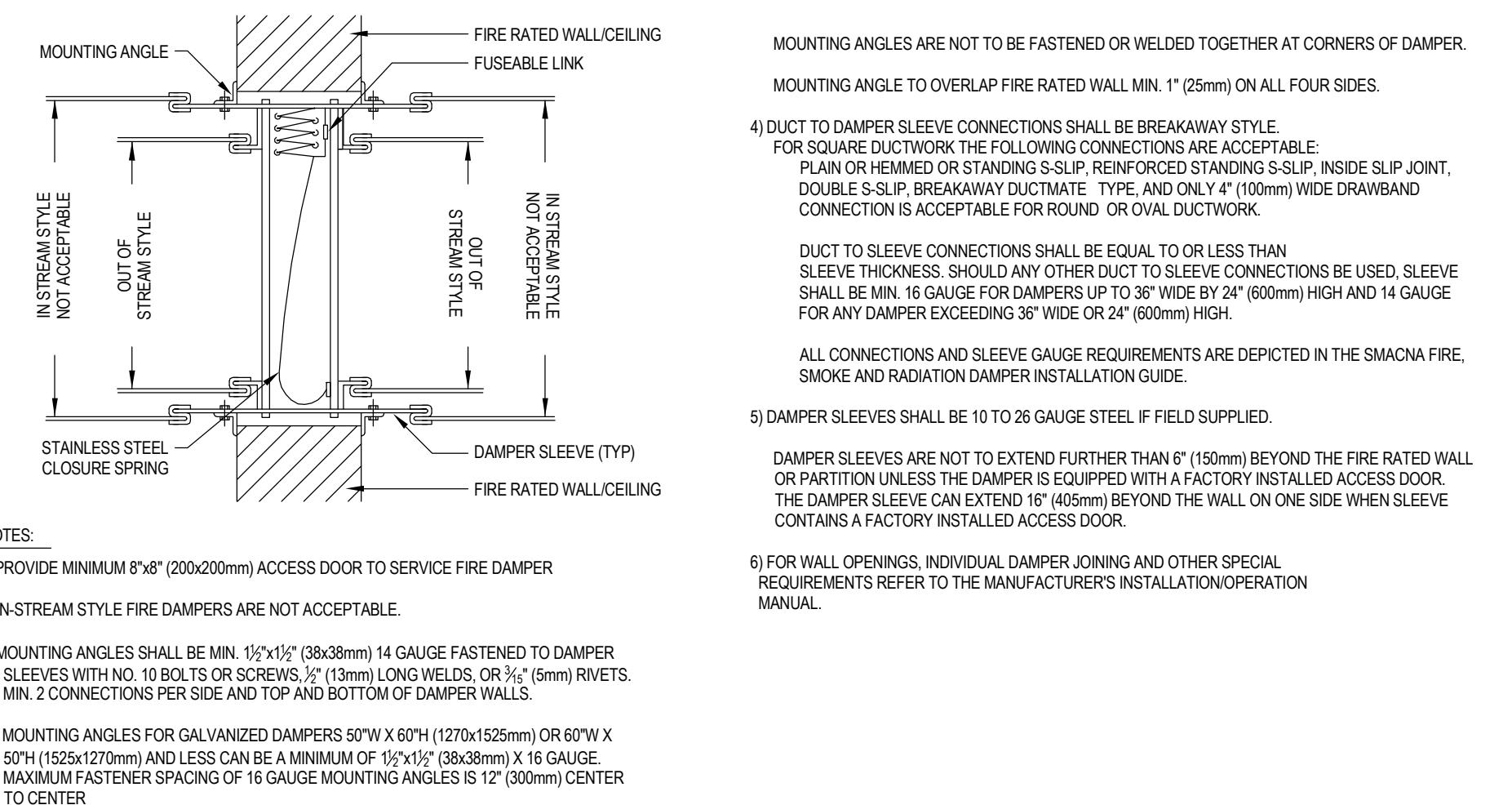
TYPICAL WASHER & DRYER ROUGH-IN DETAIL

SCALE: N.T.S



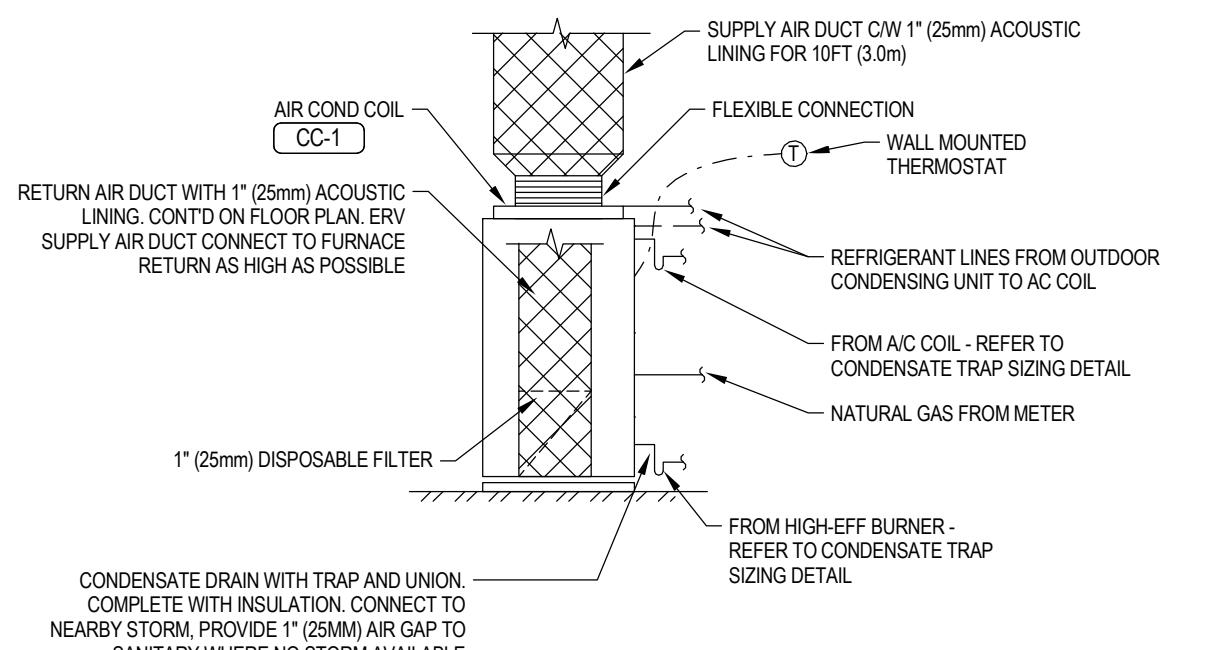
RADON SUCTION PIT PIPING DETAIL

SCALE: N.T.S



FIRE DAMPER DETAIL

SCALE: N.T.S



GAS FURNACE WITH AIR COND COIL DETAIL

SCALE: N.T.S

1	2025-02-21	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING DESIGN CATALOGUE

Project Address

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SHEET TITLE:
MECHANICAL SCHEMATICS & DETAILS

PROJECT NO: 024-07-769
 SCALE:

SHEET NO:

M300

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BASE OPTION - PRIMARY GAS-FIRED FURNACE WITH AIR CONDITIONING
FURNACE SCHEDULE

TAG	AFUE (%)	BLOWER MOTOR TYPE	GAS VALVE TYPE	FUEL	COOLING COIL	NOTES
FN-1	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	CC-1	1,2
FN-2	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	CC-2	1,2

NOTES:
1. FURNACE TO BE SUPPLIED WITH 24V 7-DAY PROGRAMMABLE THERMOSTAT WITH FAN-ON MODE
2. ALL CONDENSING APPLIANCES: INTAKE AND FLUE PIPING TO BE RUN INDEPENDENTLY TO EXTERIOR OF BUILDING, OBSERVE REQUIRED SPACING PER MANUFACTURER AND CODE REQUIREMENTS. CONCENTRIC VENT KITS NOT ACCEPTABLE. PIPE PENETRATIONS TO EXTERIOR TO BE C/W BIRDSCREEN, NO PIPE CAP TO BE PROVIDED FOR VENT PIPING. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR ALL CONDENSATE DRAINAGE POINTS. INSTALL CONDENSATE NEUTRALIZER C/W BYPASS WHERE REQUIRED.

ALTERNATE OPTION 1 - PRIMARY COLD-CLIMATE AIR SOURCE HEATPUMP WITH SUPPLEMENTARY GAS HEATING
FURNACE SCHEDULE

TAG	AFUE (%)	BLOWER MOTOR TYPE	GAS VALVE TYPE	FUEL	HEATING/COOLING COIL	NOTES
FN-1	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	HP-1	1,2,3
FN-2	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	HP-2	1,2,3

NOTES:
1. FURNACE TO BE SUPPLIED WITH 24V 7-DAY PROGRAMMABLE THERMOSTAT WITH FAN-ON MODE
2. ALL CONDENSING APPLIANCES: INTAKE AND FLUE PIPING TO BE RUN INDEPENDENTLY TO EXTERIOR OF BUILDING, OBSERVE REQUIRED SPACING PER MANUFACTURER AND CODE REQUIREMENTS. CONCENTRIC VENT KITS NOT ACCEPTABLE. PIPE PENETRATIONS TO EXTERIOR TO BE C/W BIRDSCREEN, NO PIPE CAP TO BE PROVIDED FOR VENT PIPING. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR ALL CONDENSATE DRAINAGE POINTS. INSTALL CONDENSATE NEUTRALIZER C/W BYPASS WHERE REQUIRED.
3. PRIMARY HEATING TO BE PROVIDED BY HEAT PUMPS HP-1/2, GAS HEATING TO BE SECOND-STAGE HEAT.

CONDENSING UNIT SCHEDULE

TAG	COMPRESSOR STAGES	REFRIGERANT	SERVES	SEER
CU-1	1	R410A	FN-X	17.0

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	LOCATION	TYPE	SENSIBLE EFFICIENCY (%)	SUPPLY FAN			EXHAUST FAN			ELECTRICAL (V/Ph/Hz)	NOTES
				AIRFLOW (CFM)	MOTOR (HP)	ESP (in.W.G.)	AIRFLOW (CFM)	MOTOR (HP)	ESP (in.W.G.)		
ERV-1	1-BEDROOM UNITS	ENTHALPY CORE	67.0	45	FRAC	0.40	45	FRAC	0.40	120/160	1,2
ERV-2	2-BEDROOM UNITS	ENTHALPY CORE	67.0	50	FRAC	0.40	50	FRAC	0.40	120/160	1,2
ERV-3	3-BEDROOM UNITS	ENTHALPY CORE	67.0	60	FRAC	0.40	60	FRAC	0.40	120/160	1,2
ERV-4	4-BEDROOM UNITS	ENTHALPY CORE	67.0	75	FRAC	0.40	75	FRAC	0.40	120/160	1,2

NOTES:
1. ERV CONTROL:
ERV CENTRAL SWITCH (ON/OFF) FOR LOW SPEED LOCATED AND LABELLED AS 'VENTILATION FAN' LOCATED BESIDE FN TSTAT
PROVIDE TIMER SWITCHES IN ALL WASHROOMS.
2. PROVIDE BACKDRAFT DAMPERS ON FRESH AIR AND EXHAUST AIR DUCTS

COOLING COIL SCHEDULE

TAG	SERVES	CONDENSING UNIT	REFRIGERANT	SEER	NOTES
CC-1	FN-1	CU-1	R410A	17.0	1,2
CC-2	FN-2	CU-1	R410A	17.0	1,2

NOTES:
1. PROVIDE INDIRECT CONNECTION TO DRAIN
2. COIL TO BE HEAT RESISTANT

DOMESTIC WATER HEATER SCHEDULE (GAS)

TAG	LOCATION		ENERGY FACTOR	NOTES
DWH-1	WATER HEATER CLOSET		0.7	1,2,3

NOTES:
1. LOCATE FLOOR DRAIN IN WATER HEATER ROOM NEAR T&P VALVE
2. ALL CONDENSING APPLIANCES: INTAKE AND FLUE PIPING TO BE RUN INDEPENDENTLY TO EXTERIOR OF BUILDING, OBSERVE REQUIRED SPACING PER MANUFACTURER AND CODE REQUIREMENTS. CONCENTRIC VENT KITS NOT ACCEPTABLE. PIPE PENETRATIONS TO EXTERIOR TO BE C/W BIRDSCREEN, NO PIPE CAP TO BE PROVIDED FOR VENT PIPING. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR ALL CONDENSATE DRAINAGE POINTS. INSTALL CONDENSATE NEUTRALIZER C/W BYPASS WHERE REQUIRED.
3. PROVIDE DRAIN PAN.

FAN SCHEDULE

TAG	TYPE	FUNCTION	LOCATION	AIR CAPACITY (CFM)	ESP (in.W.C.)	MOTOR (HP)	_SOUND LEVEL (SONES)	ELECTRICAL (V/Ph/Hz)	DRIVE
RH-1	UNDER CABINET	RANGE HOOD	KITCHEN (TYPICAL)	100	0.25	FRAC	6.5	115/160	DIRECT

PLUMBING FIXTURE PIPE SIZE SCHEDULE

TAG	DCW		DHW		DRAIN		VENT		DRAIN UNDERGROUND	
	in	mm	in	mm	in	mm	in	mm	in	mm
WC (TANK)	1/2	15	-	-	3	75	1 1/2	40	3	75
LAV	1/2	15	1/2	15	1 1/2	40	1 1/4	30	2	50
SK	1/2	15	1/2	15	1 1/2	40	1 1/4	30	2	50
SH	1/2	15	1/2	15	2	50	1 1/2	40	2	50
BT	1/2	15	1/2	15	1 1/2	40	1 1/4	30	2	50
FD	-	-	-	-	4	100	1 1/2	40	4	100
HB	3/4	20	-	-	-	-	-	-	-	-
CW (DOM.)	1/2	15	1/2	15	2	50	1 1/2	40	2	50

NOTES:
1. REFER TO MANUFACTURER'S SPECIFICATIONS

ALTERNATE OPTION 1 - PRIMARY COLD-CLIMATE AIR SOURCE HEATPUMP WITH SUPPLEMENTARY GAS HEATING
FURNACE SCHEDULE

TAG	AFUE (%)	BLOWER MOTOR TYPE	GAS VALVE TYPE	FUEL	HEATING/COOLING COIL	NOTES
FN-1	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	HP-1	1,2,3
FN-2	96.3	VARIABLE SPEED ECM	2-STAGE	NATURAL GAS	HP-2	1,2,3

NOTES:
1. FURNACE TO BE SUPPLIED WITH 24V 7-DAY PROGRAMMABLE THERMOSTAT WITH FAN-ON MODE
2. ALL CONDENSING APPLIANCES: INTAKE AND FLUE PIPING TO BE RUN INDEPENDENTLY TO EXTERIOR OF BUILDING, OBSERVE REQUIRED SPACING PER MANUFACTURER AND CODE REQUIREMENTS. CONCENTRIC VENT KITS NOT ACCEPTABLE. PIPE PENETRATIONS TO EXTERIOR TO BE C/W BIRDSCREEN, NO PIPE CAP TO BE PROVIDED FOR VENT PIPING. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR ALL CONDENSATE DRAINAGE POINTS. INSTALL CONDENSATE NEUTRALIZER C/W BYPASS WHERE REQUIRED.
3. PRIMARY HEATING TO BE PROVIDED BY HEAT PUMPS HP-1/2, GAS HEATING TO BE SECOND-STAGE HEAT.

CONDENSING UNIT SCHEDULE

TAG	COMPRESSOR STAGES	REFRIGERANT	SERVES	SEER
CU-1	1	R410A	FN-X	17.0

NOTES:
1. OUTDOOR UNIT C/W ULTRA-LOW AMBIENT KIT, RATED TO -40°C/F

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	LOCATION	TYPE	SENSIBLE EFFICIENCY (%)	SUPPLY FAN			EXHAUST FAN			ELECTRICAL (V/Ph/Hz)	NOTES

CMHC HOUSING DESIGN CATALOGUE

AB SIXPLEX

ELECTRICAL DRAWINGS

ACCESSIBILITY - GENERAL NOTES	
1. THE FOLLOWING REQUIREMENTS ARE REFERENCED FROM CSA B652 - ACCESSIBILITY STANDARDS CANADA (ASC).	
2. CLAUSE 4.3.3-b)ii - PARKING AND GARAGES:	
<ul style="list-style-type: none"> a) ILLUMINATION IS TO BE PROVIDED FOR ANY EXTERIOR MOTION SENSOR CONTROLS. b) WHERE VISUAL DISPLAYS ARE REQUIRED TO BE READ, DISPLAYS ARE REQUIRED TO BE ILLUMINATED TO ACHIEVE A MINIMUM OF 200LX ON SIGNAGE. c) WHERE DISPLAYS ARE NOT REQUIRED TO BE READ OR BACKLIGHTING HAS BEEN ACHIEVED, ILLUMINATION BETWEEN 50LX AND 100LX IS NECESSARY ON SIGNAGE. 	
3. CLAUSE 4.3.5.1-b) - GENERAL - OPERATING CONTROLS:	
<ul style="list-style-type: none"> a) WHERE VISUAL DISPLAYS ARE REQUIRED TO BE READ, DISPLAYS ARE REQUIRED TO BE ILLUMINATED TO ACHIEVE A MINIMUM OF 200LX ON SIGNAGE. b) WHERE DISPLAYS ARE NOT REQUIRED TO BE READ OR BACKLIGHTING HAS BEEN ACHIEVED, ILLUMINATION BETWEEN 50LX AND 100LX IS NECESSARY ON SIGNAGE. 	
4. CLAUSE 4.3.5.1-e) - GENERAL ILLUMINATION: MINIMUM LIGHTING LEVELS (4.8), REFER TO THE FOLLOWING REQUIREMENTS:	
<ul style="list-style-type: none"> a) GENERAL ILLUMINATION: 50LX AT FLOOR LEVEL b) KITCHEN BUILT-IN: 300LX, COUNTER TOP: 75LX c) ADULT BEDROOM: 100-300LX, READING DESK: 500LX d) CHILD BEDROOM: 500LX, READING DESK: 800LX e) BATHROOM: 300LX, MIRROR (VERTICAL): 300-700LX f) LIVING ROOM: 300LX, READING: 500LX g) FAMILY ROOM / THEATRE: 300LX (150LX FOR TV VIEWING), READING / TABLE: 500LX h) LAUNDRY / UTILITY: 200LX, COUNTERTOP: 300LX i) DINING ROOM: 200LX j) HALLWAY, STAIRS: 100-500LX k) HOME OFFICE: 500LX, DESK / READING: 800LX l) GARAGE: 500LX, WORKTABLE: 750LX m) WORKSHOP: 800LX, BENCH: 1100LX n) EXTERIOR PERIMETER: 50LX 	
5. CLAUSE 4.3.5.2 - DOORS:	
<ul style="list-style-type: none"> a) DOOR HARDWARE - ROUGH-IN ELECTRICAL TO BE PROVIDED FOR FUTURE INSTALLATION OF A POWER ASSISTED DOOR AT THE BATHROOM, MAIN ENTRANCE AND GARAGE ENTRANCE. b) CONTROLS FOR POWER-ASSISTED DOORS SHOULD BE LOCATED ALONG THE ACCESSIBLE PATH OF TRAVEL, CLEARLY VISIBLE BEFORE REACHING THE DOOR, ADJACENT TO A CLEAR FLOOR AREA OF 820x1390mm AND BETWEEN 600-1500mm FROM LATCH EDGE OF DOOR. 	
6. CLAUSE 5.9.6 - BATHROOM ILLUMINATION - MINIMUM REQUIREMENTS:	
<ul style="list-style-type: none"> a) BATHROOM: 300LX b) MIRROR TASK LIGHTING: 300-700LX, BE MOUNTED BETWEEN 300-500mm PERPENDICULAR TO THE MIRROR SIDE, AND AT 1000-1700mm. c) BE DIMMABLE BETWEEN 50LX AND 300LX. d) SHOWER OR BATHUB LIGHTING SHALL HAVE AS A MINIMUM, ONE FIXTURE CENTERED IN THE CEILING. 	
7. CLAUSE 5.9.8 - BATHROOM:	
<ul style="list-style-type: none"> 2xGFCI REQUIRED: a) NEXT TO THE SINK 150mm FROM THE FRONT EDGE OF FRONT FACE OF THE VANITY AND b) NEXT TO THE TOILET 150mm FROM THE FRONT EDGE AND 300-600mm AFF. 	
8. CLAUSE 5.10.5 - KITCHEN:	
<ul style="list-style-type: none"> OPERATING CONTROLS SHALL BE: a) ACCESSIBLE b) SWITCHES AND OUTLETS INSTALLED ON FRONT FACES OF COUNTERS c) INCLUDED IN SIDE WALL OUTLETS d) WHERE PROVIDED, RANGE HOODS OPERABLE FROM SEATED POSITION 	
9. CLAUSE 5.11.5 - BEDROOM:	
<ul style="list-style-type: none"> ELECTRICAL: a) SHALL BE ACCESSIBLE b) PROVIDE AT LEAST ONE SWITCH BESIDE BED AT A HEIGHT BETWEEN 550-650mm AFF. c) HAVE TWO WALLS WITH A MINIMUM OF TWO QUAD RECEPTACLES PER WALL d) HAVE OUTLETS PLACED AT A MINIMUM 600mm FROM THE CORNER OF THE ROOM AND A MAXIMUM DISTANCE OF 2080mm BETWEEN EACH 	
10. CLAUSE 5.11.6 - BEDROOM:	
<ul style="list-style-type: none"> OUTLET CONNECTIONS: a) ONE OUTLET FOR COMPUTER NETWORK AT A HEIGHT BETWEEN 400-1100mm AFF, LESS THAN 600mm HORIZONTALLY FROM BED EDGE AND IN A LOCATION WHERE ACCESS IS NOT IMPEDED BY FURNITURE. 	
11. CLAUSE 5.14 - HOME AUTOMATION:	
<ul style="list-style-type: none"> a) USER INTERFACE, PROVIDE MINIMUM 200LX WHERE READING IS NECESSARY. 	
12. CLAUSE 5.16 - ALERT & SIGNAL DEVICES:	
<ul style="list-style-type: none"> a) EMERGENCY ALERT AND SIGNAL DEVICES SHALL BE EQUIPPED TO PROVIDE BOTH VISUAL AND AUDIBLE SIGNALS. 	

ELECTRICAL SYMBOL LEGEND	
NOTE: SOME SYMBOL REFERENCES MAY NOT BE PART OF THIS PROJECT	
LIGHTING	
LINE VOLTAGE SWITCH	RECESSED MOUNTED LIGHT FIXTURE
WALL MOUNT OCCUPANCY SENSOR SWITCH	SURFACE MOUNTED LIGHT FIXTURE
CEILING MOUNT OCCUPANCY SENSOR	SUSPENDED LIGHT FIXTURE
LOW VOLTAGE SWITCH & INDICATES BUTTONS	STRIP LIGHT FIXTURE
CEILING MOUNT EXIT SIGN, LINE DENOTES FACE	WALL MOUNTED LINEAR LIGHT FIXTURE
WALL MOUNT EXIT SIGN, LINE DENOTES FACE	SURFACE MOUNTED LIGHT FIXTURE
EXIT SIGN C/W EMERGENCY HEADS	RECESSED DOWNLIGHT
REMOTE EMERGENCY HEADS	PENDANT MOUNT LIGHT FIXTURE
BATTERY PACK C/W EMERGENCY HEADS	TRACK LIGHT, NO. OF HEADS AS PER PLANS
HATCH INDICATES EMERGENCY FIXTURE	STRIP LIGHT FIXTURE
FIXTURE TYPEMARKER	ILLUMINATED BOLLARD
CCT	POLE MOUNTED LIGHT FIXTURE
a / Z1	
900AFF	
LIGHTING SYMBOL ANNOTATIONS:	
PEC	PHOTOELECTRIC CELL
TC	TIMECLOCK
NL	NIGHTLIGHT (UN-SWITCHED)
3	3-WAY
LV	LOW VOLTAGE
D	DIMMER
DT	DUAL TECHNOLOGY
VAC	VACANCY SENSOR (MANUAL ON, AUTO OFF)
EM	FIXTURE POWERED FROM EMERGENCY SOURCE
EM#	EMERGENCY BATTERY PACK I.D.
POWER	
DUPLEX RECEPTACLE	SPECIAL RECEPTACLE
QUAD RECEPTACLE	JUNCTION BOX
GFI RECEPTACLE	PAC POLE
SPLIT FED RECEPTACLE	MOTOR
HALF SWITCHED RECEPTACLE	DISCONNECT SWITCH
ISOLATED GROUND RECEPTACLE	MAGNETIC STARTER / VFD
PEDESTAL MOUNTED RECEPTACLE	SPD SURGE PROTECTION DEVICE
POWER SYMBOL ANNOTATIONS:	
T	T-SLOT (20A)
WP	WEATHERPROOF
TR	TAMPER RESISTANT
U	USB CHARGER
DISTRIBUTION	
SURFACE MOUNTED PANELBOARD	UTILITY METER STACK
RECESSED MOUNTED PANELBOARD	UTILITY METER
COMMUNICATIONS BACKBOARD	GROUND BAR
LOW TENSION PANEL / CABINET	TRANSFORMER
DISTRIBUTION SYMBOL ANNOTATIONS:	
MDP	MAIN DISTRIBUTION PANEL
CDP	CENTRAL DISTRIBUTION PANEL
MCC	MOTOR CONTROL CENTER
LYRC	LOW VOLTAGE RELAY PANEL
CB	COMMUNICATIONS BACKBOARD
TX	TRANSFORMER
LOW TENSION	
DATA NETWORK JACK	WIRELESS ACCESS POINT
TELEPHONE JACK	PROVIDE DATA DROP IN CEILING SPACE
COMBINATION TELEPHONE / DATA JACK	PUSHBUTTON
TELEVISION COAX OUTLET	UP / DOWN / STOP PUSHBUTTON
HDMI OUTLET	CEILING MOUNTED SPEAKER
DOORBELL BUZZER / DOORBELL CHIME	WALL MOUNTED SPEAKER
THERMOSTAT	CO ₂ / NO SENSORS
LOW TENSION SYMBOL ANNOTATIONS:	
#	NUMBER INDICATES QUANTITY OF CABLES / DROPS AT EACH LOCATION
FIRE ALARM	
HORN	FT HEAT DETECTOR - FIXED TEMPERATURE
HORN STROBE	HEAT DETECTOR - RATE OF RISE
STROBE	SMOKE DETECTOR
MANUAL STATION	A SMOKE ALARM (120V)
SPEAKER	AC SMOKE ALARM CO ₂ COMBINATION
SPEAKER STROBE	END OF LINE RESISTOR
ELECTROMAGNETIC DOOR HOLD OPEN	FIRE ALARM MODULE
FIRE ALARM PANEL	FIRE PHONE
FIRE ALARM SYMBOL ANNOTATIONS:	
#	CANDELA RATING FOR STROBE
FACP	MONITORING MODULE
FAAP	CONTROL MODULE
IM	FLOW SWITCH
RTX	TAMPER SWITCH
MOTION SENSOR	SECURITY DEVICE
VISUAL INDICATOR LIGHT	SECURITY CAMERA (CAT6 OUTLET)
SECURITY SYMBOL ANNOTATIONS:	
CR	CARD READER
ES	KEY PAD
DC	GLASS BREAK
RTX	MAGNETIC LOCK
EC	ELECTRONIC CLOSER
ANNOTATIONS	
UNDERGROUND / UNDERSLAB CONDUIT	KEY NOTE
OVERHEAD / SURFACE MOUNT CONDUIT	DOT ABOVE ANY SYMBOL INDICATES ABOVE
CONDUIT STUB	COUNTER MOUNTING HEIGHT
DRAWING REFERENCE	SQUARE AROUND ANY SYMBOL INDICATES FLOOR MOUNT DEVICE
SECTION REFERENCE	IRCLE AROUND ANY SYMBOL INDICATES CEILING MOUNT DEVICE
XW	SINGLE LINE DIAGRAM WIRE TAG, Y = WYE, D = DELTA CONFIGURATION

ELECTRICAL SHEET LIST	
NO.	SHEET NAME
E100	AB SIXPLEX - COVER PAGE
E201A	AB SIXPLEX - MAIN FLOOR PLAN - OPTION 1
E201B	AB SIXPLEX - MAIN FLOOR PLAN - OPTION 2
E202	AB SIXPLEX - SECOND FLOOR PLAN
E203	AB SIXPLEX - THIRD FLOOR PLAN
E300	AB SIXPLEX - DETAILS
E301	AB SIXPLEX - SPECIFICATION



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 This 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.

1 03/26/25 ISSUED AS PROTOTYPICAL DRAWING
 NO. DATE DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

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SHEET TITLE:
AB SIXPLEX - COVER PAGE

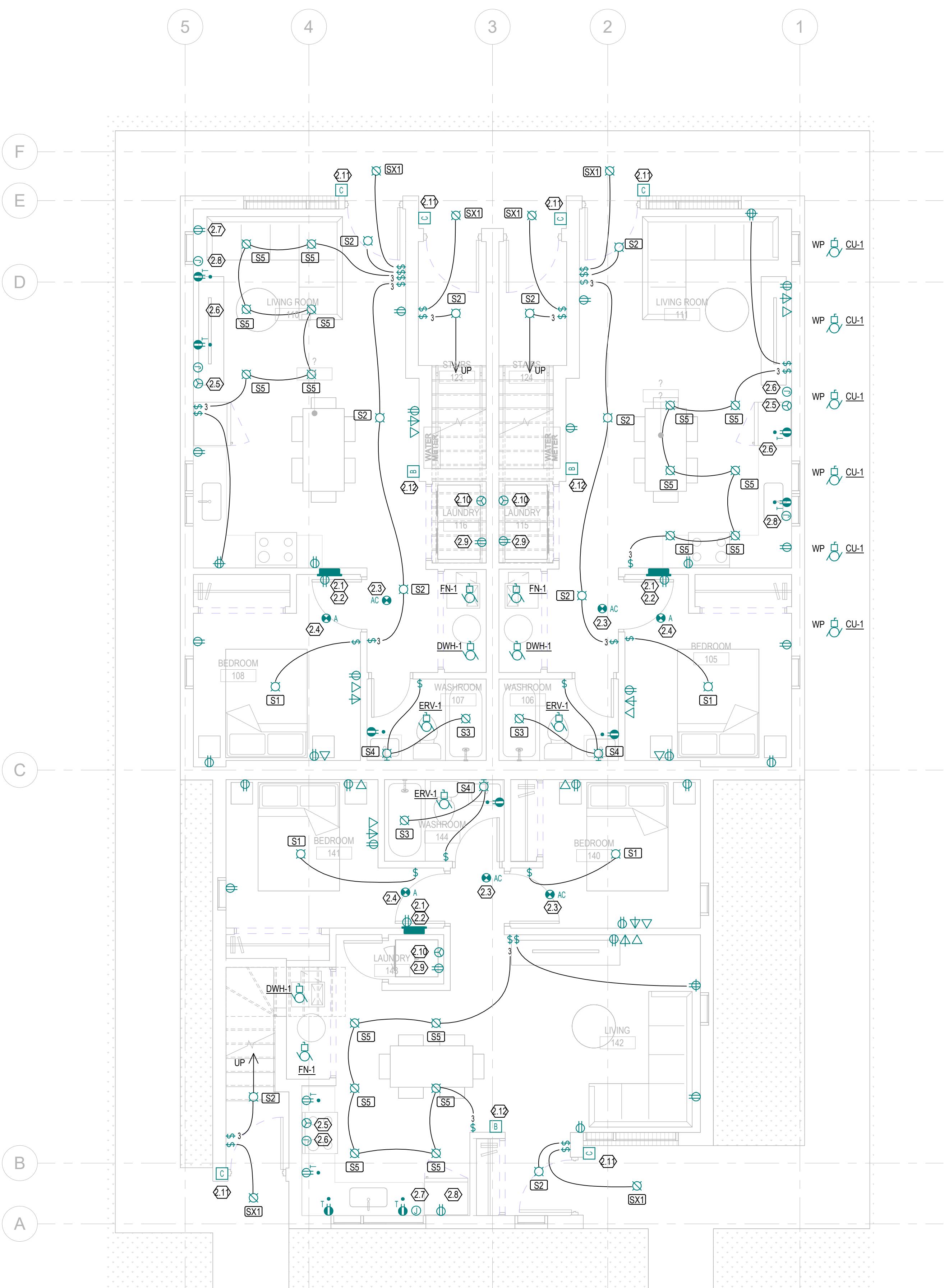
PROJECT NO: Project Number
 SCALE: 1:1
 SHEET NO:
E100

GENERAL SUITE NOTES

- 1 PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-68.
- 2 PROVIDE TAMPER RESISTANT RECEPTACLES IN EACH SUITE TO CEC 26-706.
- 3 PROVIDE GROUND FAULT CIRCUIT INTERRUPTION FOR RECEPTACLES WITHIN 1.5m OF ANY SINK OR WASHBASIN AND FOR EXTERIOR PATIOS.
- 4 TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS, PROVIDE HORIZONTAL SEPARATION OF AT LEAST 1 STUD SPACE FOR RECESSED WALL JUNCTION BOXES IN SUITE WALLS WHEN THE JUNCTION BOXES ARE INSTALLED ON EITHER SIDE OF THE WALL.
- 5 PROVIDE MOLDABLE FIRE RESISTANT PUTTY PADS (3M FIRE BARRIER OR EQUAL) IN SUITE PARTY WALLS WHEN JUNCTION BOXES ARE INSTALLED WITHIN THE SAME STUD SPACE ON EITHER SIDE OF THE WALL, WHERE PRACTICAL, EFFORT SHOULD BE MADE TO AVOID PLACING JUNCTION BOXES IN THE SAME STUD SPACE. CONFIRM WITH ENGINEER.
- 6 PROVIDE RECEPTACLES IN SUITES WITH APPROPRIATE SPACING IN ACCORDANCE WITH SECTION 26 OF THE CEC WHETHER SHOWN CORRECTLY ON THE DRAWINGS OR NOT. ALLOW FOR ADDITIONAL RECEPTACLES AS REQUIRED. NO EXTRAS WILL BE PERMITTED FOR NOT COMPLYING WITH CEC SPACING REQUIREMENTS.
- 7 PROVIDE SWITCHES FOR BEDROOMS, KITCHENS, LIVING ROOMS, UTILITY ROOMS, DINING ROOMS, LAUNDRY ROOMS, BATHROOMS, HALLWAYS, STORAGE ROOMS, FRONT ENTRY, BALCONY ON THE LATCH SIDE OF THE DOOR. CONFIRM DOOR SWING ON SITE PRIOR TO ROUGH IN. INSTALL WITHIN 50mm OF THE DOOR. PROVIDE ADDITIONAL BLOCKING IF REQUIRED.
- 8 BALCONY LIGHT FIXTURES TO BE ALIGNED IN A VERTICAL LINE BETWEEN FLOORS FROM GROUND FLOOR TO HIGHEST FLOOR IF POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS.
- 9 ALL SUITE LIGHT SWITCHES AND RECEPTACLES TO BE DECORA STYLE, RESIDENTIAL GRADE. REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR THERMOSTAT AND HUMIDISTAT LOCATIONS. REFER TO SPECIFICATIONS.
- 10 REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR VENTILATION EQUIPMENT OR HEATING/ COOLING EQUIPMENT SPECIFICATIONS (FURNACES, FAN COILS, CONDENSING UNITS, RADIATOR ZONE VALVES ETC). CONNECT ALL MECHANICAL HEATING/ COOLING EQUIPMENT. CONTACT ENGINEER IF DISCREPANCIES EXIST.
- 11 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
- 12 PROVIDE SUITE PATIO RECEPTACLE NEAR BBQ GAS CONNECTION IF POSSIBLE. COORDINATE WITH MECHANICAL TRADE AND RELOCATE IF REQUIRED.
- 13 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
- 14 ALL SUITE TELEPHONE AND DATA JACKS TO BE CAT6 TO ALLOW FOR PATCHING FOR USE AS EITHER TELEPHONE OR DATA.

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MAIN FLOOR PLAN - OPTION 1

SCALE: 1: 50

KEYNOTES - SUITES

- 2.1 SUITE PANEL: PANEL TO BE FLUSH MOUNTED CW HINGED SMOOTH COVER.
- 2.2 SUITE COMMUNICATION CABINET: SUPPLIED BY UTILITY. INSTALLED BY ELECTRICAL CONTRACTOR CW HINGED SMOOTH COVER. INCLUDE NETWORK PATCH PANEL MODULE, 6 PORT VOICE/DATA MODULE, CATV SPLITTER, TELEPHONE MODULE AND RECEPTACLE. HOME RUN TELEPHONE, CATV AND DATA LINES TO THIS LOCATION.
- 2.3 SMOKE ALARM - PROVIDE AND INSTALL 120V DC BATTERY BACK UP AND MANUAL SILENCE BUTTON. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL UNITS WILL ALARM TOGETHER.
- 2.4 SMOKE ALARMS - PROVIDE AND INSTALL A 120V DC BATTERY BACK UP. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL DEVICES WILL ALARM TOGETHER INCLUDING COMBINATION CO ALARMS. BATTERY TO BE TYPE 'A'. ALL SUITE SMOKE ALARMS AND CO DETECTORS TO BE WIRED WITH LIGHTING ON NON ARCH FAULT CIRCUIT.
- 2.5 RANGE: PROVIDE AND INSTALL 40A, 240V (OR 208V), 1 PHASE RECEPTACLE AT MAXIMUM 130mm AFF TO CENTER OF BOX.
- 2.6 FAN HOOD: PROVIDE INSTALLATION OF RANGE HOOD FAN / LIGHTS.
- 2.7 DISHWASHER: PROVIDE ELECTRICAL INSTALLATION FOR A DISHWASHER. COORDINATE INSTALLATION WITH APPLIANCE SUPPLIER.
- 2.8 REFRIGERATOR: PROVIDE DEDICATED RECEPTACLE.
- 2.9 WASHING MACHINE: PROVIDE DEDICATED 120V CIRCUIT FOR CLOTHES WASHER.
- 2.10 DRYER: PROVIDE AND INSTALL 30A, 208V (OR 240V), 1 PHASE RECEPTACLE.
- 2.11 CHIME: PROVIDE ROUGH IN FOR A DOOR CHIME NUTONE LA11WH. PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE OPERATION INCLUDING (BUT NOT LIMITED TO) 16V TRANSFORMER, WHITE LIGHTED EXTERIOR DOOR PUSHBUTTON(S).
- 2.12 DOOR BUZZER (CHIME): PROVIDE AND INSTALL A DOOR CHIME NUTONE LA11WH. PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE OPERATION INCLUDING (BUT NOT LIMITED TO) 16V TRANSFORMER, WHITE LIGHTED EXTERIOR DOOR PUSHBUTTON.

TYPICAL SUITE PANEL

DESCRIPTION	BRKR	CCT	CCT	BRKR	DESCRIPTION
LIGHTING & POWER	15A	1	2	40A	RANGE
LIGHTING & POWER	15A	3	4	15A	
LIGHTING & POWER	15A	5	6	30A	DRYER
LIGHTING & POWER	15A	7	8		
LIGHTING & POWER	15A	9	10	15A	WASHER
KITCHEN	20A	11	12	20A	ERV-1 OR 2
KITCHEN	20A	13	14		
KITCHEN	20A	15	16	20A	CU-1
MICROWAVE	15A	17	18		
DISHWASHER	15A	19	20	15A	FN-1
FRIDGE	15A	21	22	15A	DWH-1
	15A	23	24		
	15A	25	26		
	15A	27	28		
	15A	29	30		
	15A	31	32		
	15A	33	34		
SPARE	15A	35	36	15A	SPARE
SPARE	15A	37	38	15A	SPARE
SPARE	15A	39	40	15A	SPARE
SPARE	15A	41	42	15A	SPARE

NOTES:

- DO NOT EXCEED 10 DEVICES PER CIRCUIT.
- REFER TO MECH SHOP DRAWINGS OR LATEST PLANS FOR ELECTRICAL REQUIREMENTS OF HVAC & AC EQUIPMENT.
- PANEL TO BE 24 CCT (48 MINI BREAKERS) EQUIPPED WITH 100A RATED BUS, 1PHASE, 120/240V.
- PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-68.

1	03/26/25	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING
CATALOGUE

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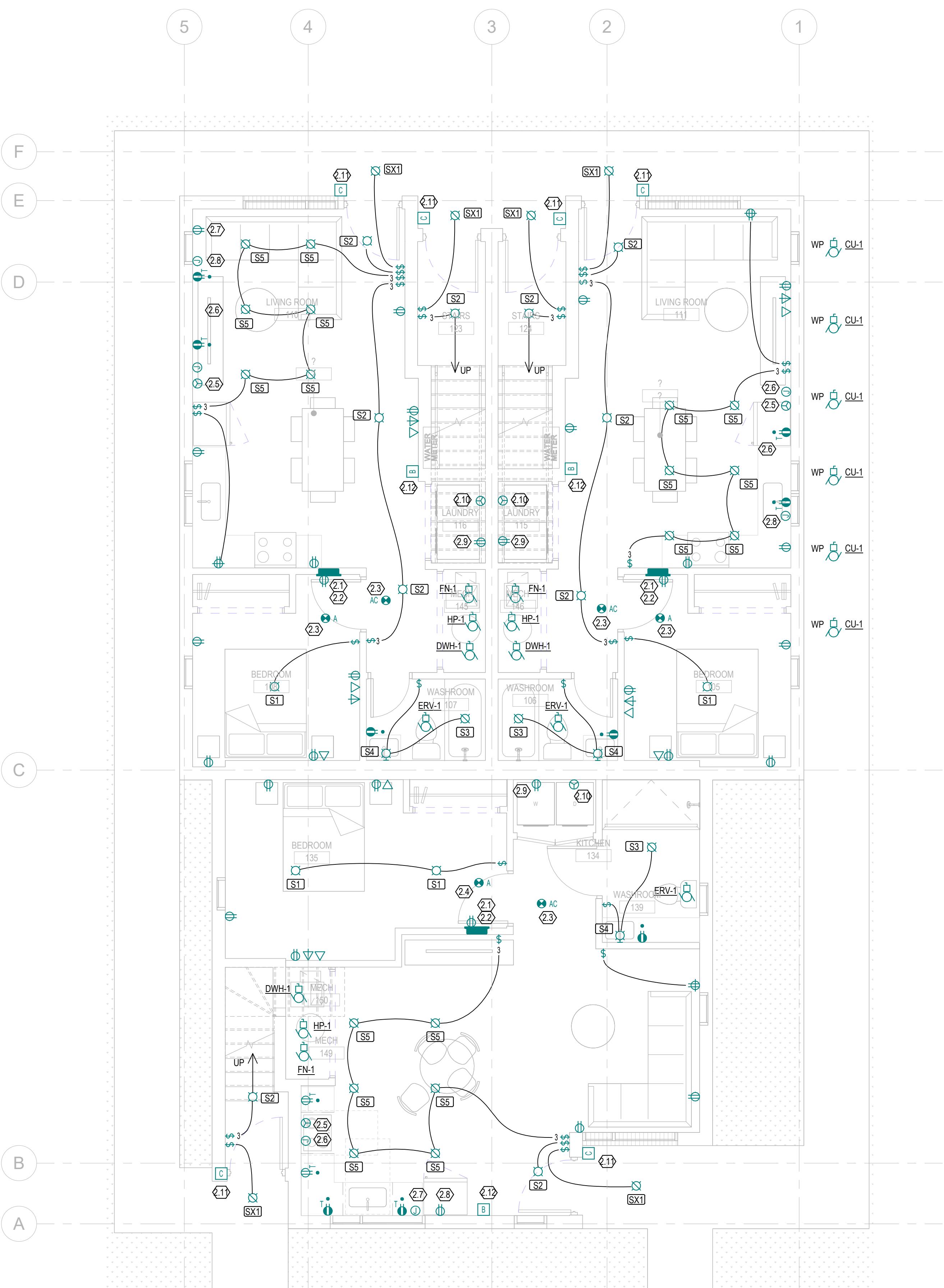
SHEET TITLE:
AB SIXPLEX - MAIN FLOOR
PLAN - OPTION 1

PROJECT NO: Project Number
SCALE: As indicated

SHEET NO:
E201A

GENERAL SUITE NOTES

- 1 PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-68.
- 2 PROVIDE TAMPER RESISTANT RECEPTACLES IN EACH SUITE TO CEC 26-706.
- 3 PROVIDE GROUND FAULT CIRCUIT INTERRUPTION FOR RECEPTACLES WITHIN 1.5m OF ANY SINK OR WASHBASIN AND FOR EXTERIOR PATIOS.
- 4 TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS, PROVIDE HORIZONTAL SEPARATION OF AT LEAST 1 STUD SPACE FOR RECESSED WALL JUNCTION BOXES IN SUITE WALLS WHEN THE JUNCTION BOXES ARE INSTALLED ON EITHER SIDE OF THE WALL.
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- 7 PROVIDE SWITCHES FOR BEDROOMS, KITCHENS, LIVING ROOMS, UTILITY ROOMS, DINING ROOMS, LAUNDRY ROOMS, BATHROOMS, HALLWAYS, STORAGE ROOMS, FRONT ENTRY, BALCONY ON THE LATCH SIDE OF THE DOOR. CONFIRM DOOR SWING ON SITE PRIOR TO ROUGH IN. INSTALL WITHIN 50mm OF THE DOOR. PROVIDE ADDITIONAL BLOCKING IF REQUIRED.
- 8 BALCONY LIGHT FIXTURES TO BE ALIGNED IN A VERTICAL LINE BETWEEN FLOORS FROM GROUND FLOOR TO HIGHEST FLOOR IF POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS.
- 9 ALL SUITE LIGHT SWITCHES AND RECEPTACLES TO BE DECORA STYLE, RESIDENTIAL GRADE. REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR THERMOSTAT AND HUMIDISTAT LOCATIONS. REFER TO SPECIFICATIONS.
- 10 REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR VENTILATION EQUIPMENT OR HEATING/ COOLING EQUIPMENT SPECIFICATIONS (FURNACES, FAN COILS, CONDENSING UNITS, RADIATOR ZONE VALVES ETC). CONNECT ALL MECHANICAL HEATING/ COOLING EQUIPMENT. CONTACT ENGINEER IF DISCREPANCIES EXIST.
- 11 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
- 12 CONFIRM EXACT PLACEMENT OF PATIO RECEPTACLE NEAR BBQ GAS CONNECTION IF POSSIBLE. COORDINATE WITH MECHANICAL TRADE AND RELOCATE IF REQUIRED.
- 13 PROVIDE SUITE PATIO RECEPTACLE NEAR BBQ GAS CONNECTION IF POSSIBLE. COORDINATE WITH MECHANICAL TRADE AND RELOCATE IF REQUIRED.
- 14 ALL SUITE TELEPHONE AND DATA JACKS TO BE CAT6 TO ALLOW FOR PATCHING FOR USE AS EITHER TELEPHONE OR DATA.



MAIN FLOOR PLAN - OPTION 2

SCALE: 1:50

KEYNOTES - SUITES

- 2.1 SUITE PANEL: PANEL TO BE FLUSH MOUNTED CW HINGED SMOOTH COVER.
- 2.2 SUITE COMMUNICATION CABINET: SUPPLIED BY UTILITY. INSTALLED BY ELECTRICAL CONTRACTOR CW HINGED SMOOTH COVER. INCLUDE NETWORK PATCH PANEL MODULE, 6 PORT VOICE/DATA MODULE, CATV SPLITTER, TELEPHONE MODULE AND RECEPTACLE. HOME RUN TELEPHONE, CATV AND DATA LINES TO THIS LOCATION.
- 2.3 SMOKE ALARM: PROVIDE AND INSTALL 120V DC BATTERY BACK UP AND MANUAL SILENCE BUTTON. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL UNITS WILL ALARM TOGETHER.
- 2.4 SMOKE ALARMS: PROVIDE AND INSTALL A 120V DC BATTERY BACK UP. WHERE MULTIPLE ALARMS ARE SHOWN IN EACH SUITE, INTERLOCK SUCH THAT ALL DEVICES WILL ALARM TOGETHER INCLUDING COMBINATION CO ALARMS. BATTERY TO BE TYPE 'A'. ALL SUITE SMOKE ALARMS AND CO DETECTORS TO BE WIRED WITH LIGHTING ON NON ARCH FAULT CIRCUIT.
- 2.5 RANGE: PROVIDE AND INSTALL 40A, 240V (OR 208V), 1 PHASE RECEPTACLE AT MAXIMUM 130mm AFT TO CENTER OF BOX.
- 2.6 FAN HOOD: PROVIDE INSTALLATION OF RANGE HOOD FAN / LIGHTS.
- 2.7 DISHWASHER: PROVIDE ELECTRICAL INSTALLATION FOR A DISHWASHER. COORDINATE INSTALLATION WITH APPLIANCE SUPPLIER.
- 2.8 REFRIGERATOR: PROVIDE DEDICATED RECEPTACLE.
- 2.9 WASHING MACHINE: PROVIDE DEDICATED 120V CIRCUIT FOR CLOTHES WASHER.
- 2.10 DRYER: PROVIDE AND INSTALL 30A, 208V (OR 240V), 1 PHASE RECEPTACLE.
- 2.11 CHIME: PROVIDE ROUGH IN FOR A DOOR CHIME NUTONE LA11WH. PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE OPERATION INCLUDING (BUT NOT LIMITED TO) 16V TRANSFORMER, WHITE LIGHTED PUSHBUTTON(S) ETC.
- 2.12 DOOR BUZZER (CHIME): PROVIDE AND INSTALL A DOOR CHIME NUTONE LA11WH. PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE OPERATION INCLUDING (BUT NOT LIMITED TO) 16V TRANSFORMER, WHITE LIGHTED EXTERIOR DOOR PUSHBUTTON.

TYPICAL SUITE PANEL

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LIGHTING & POWER	15A	5	6		
LIGHTING & POWER	15A	7	8	30A	DRYER
LIGHTING & POWER	15A	9	10	15A	WASHER
KITCHEN	20A	11	12	20A	ERV-1
KITCHEN	20A	13	14		
KITCHEN	20A	15	16	20A	CU-1
MICROWAVE	15A	17	18		
DISHWASHER	15A	19	20	15A	FN-1
FRIDGE	15A	21	22	15A	DWH-1
	15A	23	24		
	15A	25	26	30A	HP-1
	15A	27	28	15A	
	15A	29	30	15A	
	15A	31	32	15A	
	15A	33	34	15A	
SPARE	15A	35	36	15A	SPARE
SPARE	15A	37	38	15A	SPARE
SPARE	15A	39	40	15A	SPARE
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- PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-68.

1	03/26/25	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING
CATALOGUE

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OR CONSTRUCTION

SHEET TITLE:
AB SIXPLEX - MAIN FLOOR
PLAN - OPTION 2

PROJECT NO: Project Number

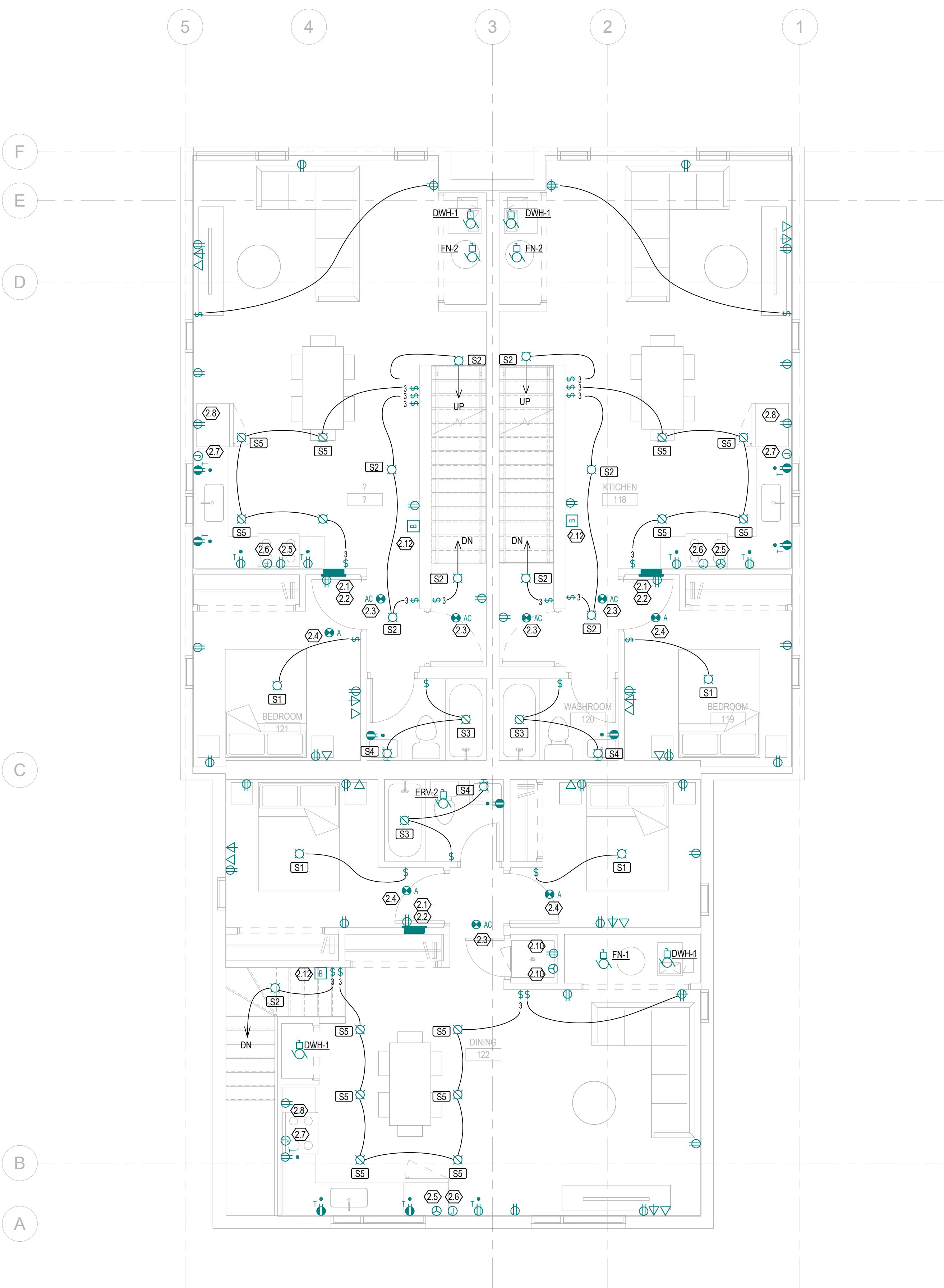
SCALE: As indicated

SHEET NO:

E201B

GENERAL SUITE NOTES

- 1 PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-658.
- 2 PROVIDE TAMPER RESISTANT RECEPTACLES IN EACH SUITE TO CEC 26-706.
- 3 PROVIDE GROUND FAULT CIRCUIT INTERRUPTION FOR RECEPTACLES WITHIN 1.5m OF ANY SINK OR WASHBASIN AND FOR EXTERIOR PATIOS.
- 4 TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS, PROVIDE HORIZONTAL SEPARATION OF AT LEAST 1 STUD SPACE FOR RECESSED WALL JUNCTION BOXES IN SUITE WALLS WHEN THE JUNCTION BOXES ARE INSTALLED ON EITHER SIDE OF THE WALL.
- 5 PROVIDE MOLDABLE FIRE RESISTANT PUTTY PADS (3M FIRE BARRIER OR EQUAL) IN SUITE PARTY WALLS WHEN JUNCTION BOXES ARE INSTALLED WITHIN THE SAME STUD SPACE ON EITHER SIDE OF THE WALL, WHERE PRACTICAL. EFFORT SHOULD BE MADE TO AVOID PLACING JUNCTION BOXES IN THE SAME STUD SPACE. CONFIRM WITH ENGINEER.
- 6 PROVIDE RECEPTACLES IN SUITES WITH APPROPRIATE SPACING IN ACCORDANCE WITH SECTION 26 OF THE CEC WHETHER SHOWN CORRECTLY ON THE DRAWINGS OR NOT. ALLOW FOR ADDITIONAL RECEPTACLES AS REQUIRED. NO EXTRAS WILL BE PERMITTED FOR NOT COMPLYING WITH CEC SPACING REQUIREMENTS.
- 7 PROVIDE SWITCHES FOR BEDROOMS, KITCHENS, LIVING ROOMS, UTILITY ROOMS, DINING ROOMS, LAUNDRY ROOMS, BATHROOMS, HALLWAYS, STORAGE ROOMS, FRONT ENTRY, BALCONY ON THE LATCH SIDE OF THE DOOR. CONFIRM DOOR SWING ON SITE PRIOR TO ROUGH IN. INSTALL WITHIN 50mm OF THE DOOR. PROVIDE ADDITIONAL BLOCKING IF REQUIRED.
- 8 BALCONY LIGHT FIXTURES TO BE ALIGNED IN A VERTICAL LINE BETWEEN FLOORS FROM GROUND FLOOR TO HIGHEST FLOOR IF POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS.
- 9 ALL SUITE LIGHT SWITCHES AND RECEPTACLES TO BE DECORA STYLE, RESIDENTIAL GRADE. REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR THERMOSTAT AND HUMIDISTAT LOCATIONS. REFER TO SPECIFICATIONS.
- 10 REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR VENTILATION EQUIPMENT OR HEATING/ COOLING EQUIPMENT ELECTRICAL REQUIREMENTS (FURNACES, FAN COILS, CONDENSING UNITS, RADIATOR ZONE VALVES ETC). CONNECT ALL MECHANICAL HEATING/ COOLING EQUIPMENT. CONTACT ENGINEER IF DISCREPANCIES EXIST.
- 11 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
- 12 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
- 13 PROVIDE SUITE PATIO RECEPTACLE NEAR BBQ GAS CONNECTION IF POSSIBLE. COORDINATE WITH MECHANICAL TRADE AND RELOCATE IF REQUIRED.
- 14 ALL SUITE TELEPHONE AND DATA JACKS TO BE CAT6 TO ALLOW FOR PATCHING FOR USE AS EITHER TELEPHONE OR DATA.


SECOND FLOOR PLAN

SCALE: 1: 50

KEYNOTES - SUITES

- 2.1 SUITE PANEL: PANEL TO BE FLUSH MOUNTED CW HINGED SMOOTH COVER.
- 2.2 SUITE COMMUNICATION CABINET: SUPPLIED BY UTILITY. INSTALLED BY ELECTRICAL CONTRACTOR CW HINGED SMOOTH COVER. INCLUDE NETWORK PATCH PANEL MODULE, 6 PORT VOICE/DATA MODULE, CATV SPLITTER, TELEPHONE MODULE AND RECEPTACLE. HOME RUN TELEPHONE, CATV AND DATA LINES TO THIS LOCATION.
- 2.3 SMOKE ALARM - PROVIDE AND INSTALL 120V DC BATTERY BACK UP AND MANUAL SILENCE BUTTON. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL UNITS WILL ALARM TOGETHER.
- 2.4 SMOKE ALARMS - PROVIDE AND INSTALL A 120V CW BATTERY BACK UP. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL DEVICES WILL ALARM TOGETHER INCLUDING COMBINATION CO ALARMS. BATTERY TO BE TYPE 'A'. ALL SUITE SMOKE ALARMS AND CO DETECTORS TO BE WIRED WITH LIGHTING ON NON ARCH FAULT CIRCUIT.
- 2.5 RANGE: PROVIDE AND INSTALL 40A, 240V (OR 208V), 1 PHASE RECEPTACLE AT MAXIMUM 130mm AFT TO CENTER OF BOX.
- 2.6 FAN HOOD: PROVIDE INSTALLATION OF RANGE HOOD FAN / LIGHTS.
- 2.7 DISHWASHER: PROVIDE ELECTRICAL INSTALLATION FOR A DISHWASHER. COORDINATE INSTALLATION WITH APPLIANCE SUPPLIER.
- 2.8 REFRIGERATOR: PROVIDE DEDICATED RECEPTACLE.
- 2.10 DRYER - PROVIDE AND INSTALL 30A, 208V (OR 240V), 1 PHASE RECEPTACLE.
- 2.12 DOOR BUZZER (CHIME) - PROVIDE AND INSTALL A DOOR CHIME NUTONE LA11WH. PROVIDE ALL WIRING AND ACCESSORIES FOR COMPLETE OPERATION INCLUDING (BUT NOT LIMITED TO) 16V TRANSFORMER, WHITE LIGHTED EXTERIOR DOOR PUSHBUTTON.

TYPICAL SUITE PANEL

DESCRIPTION	BRKR	CCT	CCT	BRKR	DESCRIPTION
LIGHTING & POWER	15A	1	2	40A	RANGE
LIGHTING & POWER	15A	3	4	40A	RANGE
LIGHTING & POWER	15A	5	6	30A	DRYER
LIGHTING & POWER	15A	7	8	30A	DRYER
LIGHTING & POWER	15A	9	10	15A	WASHER
KITCHEN	20A	11	12	20A	ERV-2 OR 3
KITCHEN	20A	13	14	20A	ERV-2 OR 3
KITCHEN	20A	15	16	20A	CU-1
MICROWAVE	15A	17	18	20A	CU-1
DISHWASHER	15A	19	20	15A	FN-1
FRIDGE	15A	21	22	15A	DWH-1
	15A	23	24	15A	
	15A	25	26	15A	
	15A	27	28	15A	
	15A	29	30	15A	
	15A	31	32	15A	
	15A	33	34	15A	
SPARE	15A	35	36	15A	SPARE
SPARE	15A	37	38	15A	SPARE
SPARE	15A	39	40	15A	SPARE
SPARE	15A	41	42	15A	SPARE

NOTES:

- DO NOT EXCEED 10 DEVICES PER CIRCUIT.
- REFER TO MECH SHOP DRAWINGS OR LATEST PLANS FOR ELECTRICAL REQUIREMENTS OF HVAC & AC EQUIPMENT.
- PANEL TO BE 24 CCT (48 MINI BREAKERS) EQUIPPED WITH 100A RATED BUS, 1 PHASE, 120/240V.
- PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-658.

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1	03/26/25	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

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SHEET TITLE:
AB SIXPLEX - SECOND FLOOR PLAN

PROJECT NO: Project Number
SCALE: As indicated

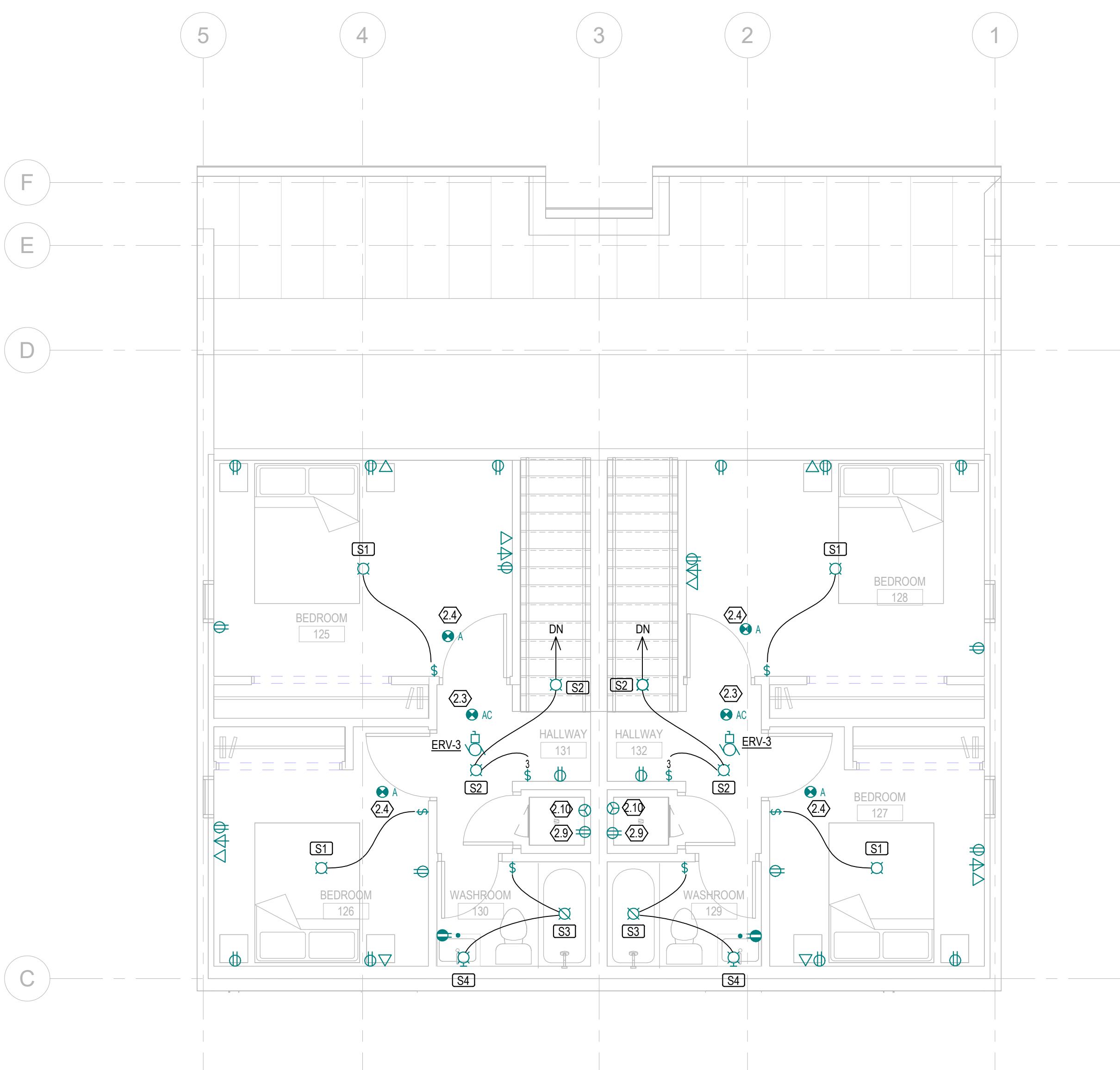
SHEET NO:
E202

GENERAL SUITE NOTES

- 1 PROVIDE ARC FAULT BREAKERS FOR ALL RECEPTACLES IN RESIDENTIAL SUITES IN ACCORDANCE WITH CEC 26-68.
- 2 PROVIDE TAMPER RESISTANT RECEPTACLES IN EACH SUITE TO CEC 26-706.
- 3 PROVIDE GROUND FAULT CIRCUIT INTERRUPTION FOR RECEPTACLES WITHIN 1.5M OF ANY SINK OR WASHBASIN AND FOR EXTERIOR PATIOS.
- 4 TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS, PROVIDE HORIZONTAL SEPARATION OF AT LEAST 1 STUD SPACE FOR RECESSED WALL JUNCTION BOXES IN SUITE WALLS WHEN THE JUNCTION BOXES ARE INSTALLED ON EITHER SIDE OF THE WALL.
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- 7 PROVIDE SWITCHES FOR BEDROOMS, KITCHENS, LIVING ROOMS, UTILITY ROOMS, DINING ROOMS, LAUNDRY ROOMS, BATHROOMS, HALLWAYS, STORAGE ROOMS, FRONT ENTRY, BALCONY ON THE LATCH SIDE OF THE DOOR. CONFIRM DOOR SWING ON SITE PRIOR TO ROUGH IN. INSTALL WITHIN 50mm OF THE DOOR. PROVIDE ADDITIONAL BLOCKING IF REQUIRED.
- 8 BALCONY LIGHT FIXTURES TO BE ALIGNED IN A VERTICAL LINE BETWEEN FLOORS FROM GROUND FLOOR TO HIGHEST FLOOR IF POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS.
- 9 ALL SUITE LIGHT SWITCHES AND RECEPTACLES TO BE DECORA STYLE, RESIDENTIAL GRADE. REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR THERMOSTAT AND HUMIDISTAT LOCATIONS. REFER TO SPECIFICATIONS.
- 10 REFER TO LATEST MECHANICAL ENGINEER'S PLANS FOR VENTILATION EQUIPMENT OR HEATING/ COOLING EQUIPMENT ELECTRICAL REQUIREMENTS (FURNACES, FAN COILS, CONDENSING UNITS, RADIATOR ZONE VALVES ETC). CONNECT ALL MECHANICAL HEATING/ COOLING EQUIPMENT. CONTACT ENGINEER IF DISCREPANCIES EXIST.
- 11 CONFIRM EXACT PLACEMENT OF LIGHT FIXTURES WITH OWNER.
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- 13 PROVIDE SUITE PATIO RECEPTACLE NEAR BBQ GAS CONNECTION IF POSSIBLE. COORDINATE WITH MECHANICAL TRADE AND RELOCATE IF REQUIRED.
- 14 ALL SUITE TELEPHONE AND DATA JACKS TO BE CAT6 TO ALLOW FOR PATCHING FOR USE AS EITHER TELEPHONE OR DATA.

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KEYNOTES - SUITES

- 2.3 SMOKE/CO ALARM - PROVIDE AND INSTALL 120V DETECTOR C/W BATTERY BACKUP AND MANUAL SILENCE BUTTON. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL UNITS WILL ALARM TOGETHER.
- 2.4 SMOKE ALARMS - PROVIDE AND INSTALL A 120V C/W BATTERY BACKUP. WHERE MULTIPLE ALARMS ARE SHOWN WITHIN EACH SUITE, INTERLOCK SUCH THAT ALL DEVICES WILL ALARM TOGETHER INCLUDING COMBINATION CO ALARMS. BATTERY TO BE TYPE 'A'. ALL SUITE SMOKE ALARMS AND CO DETECTORS TO BE WIRED WITH LIGHTING ON NON ARCH FAULT CIRCUIT.
- 2.9 WASHING MACHINE - PROVIDE DEDICATED 120V CIRCUIT FOR CLOTHES WASHER.
- 2.10 DRYER - PROVIDE AND INSTALL 30A, 208V (OR 240V), 1 PHASE RECEPTACLE.

1	03/26/25	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
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SHEET TITLE:
AB SIXPLEX - THIRD FLOOR PLAN

THIRD FLOOR PLAN

SCALE: 1:50

PROJECT NO: Project Number
SCALE: 1:50

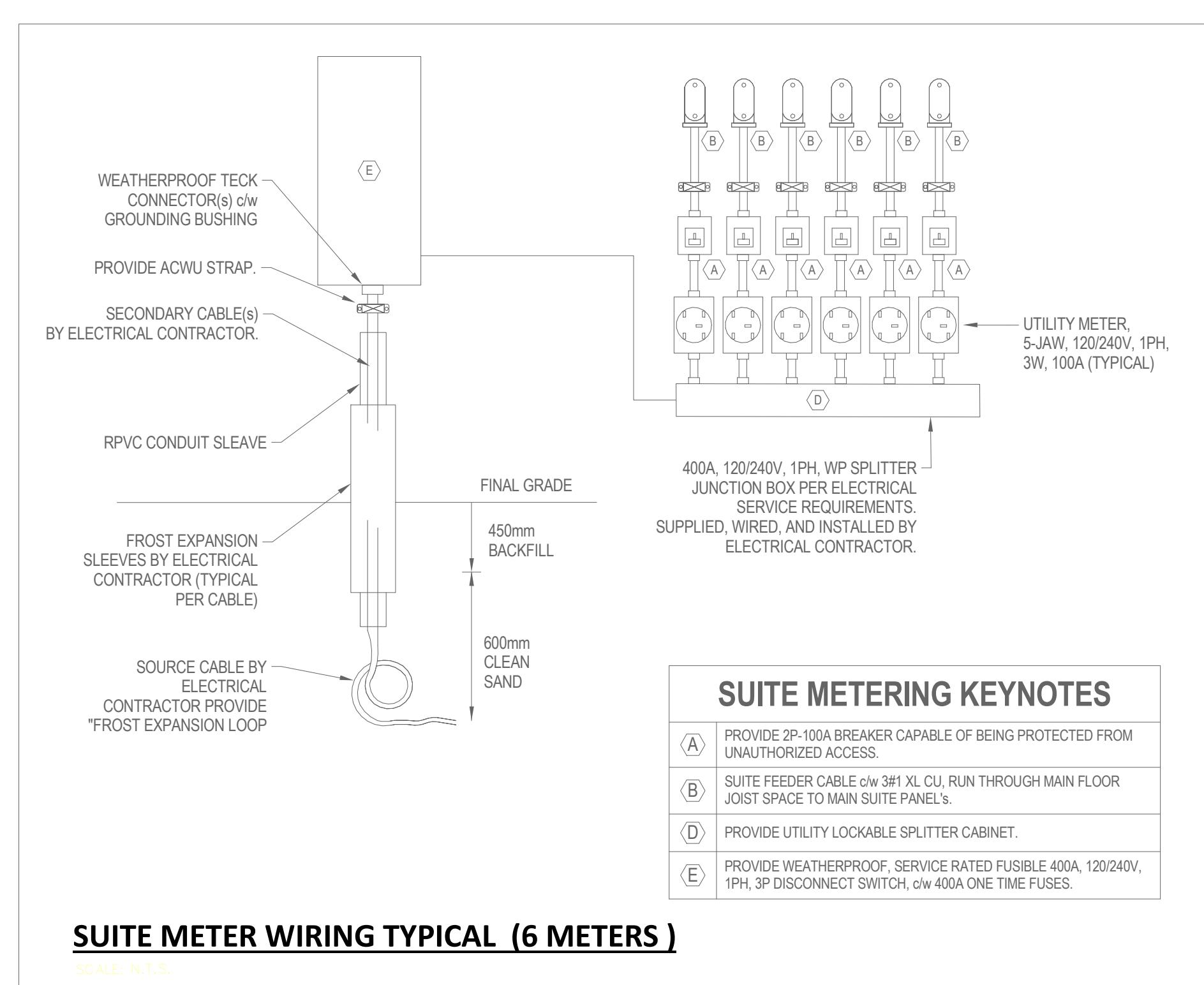
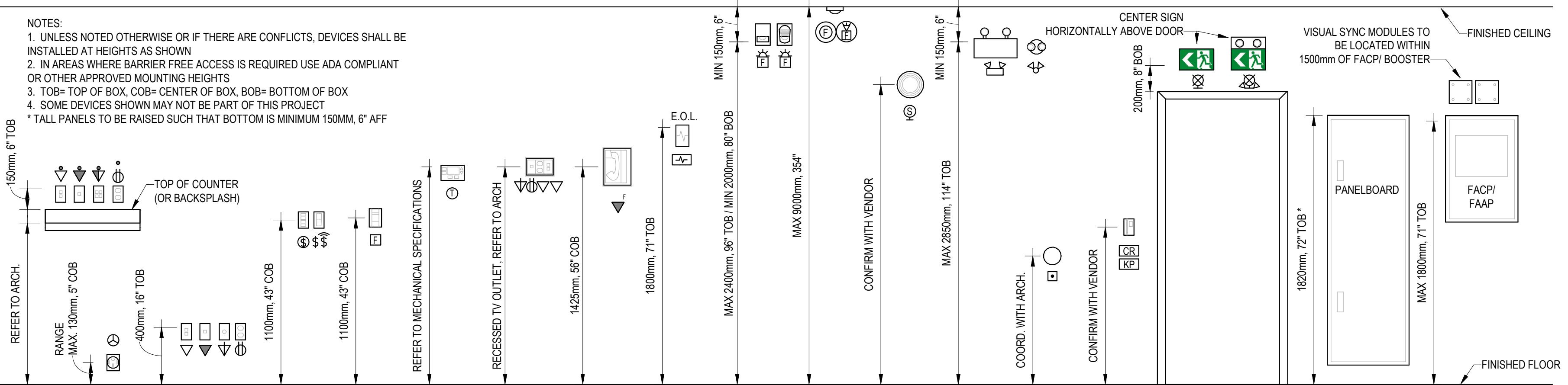
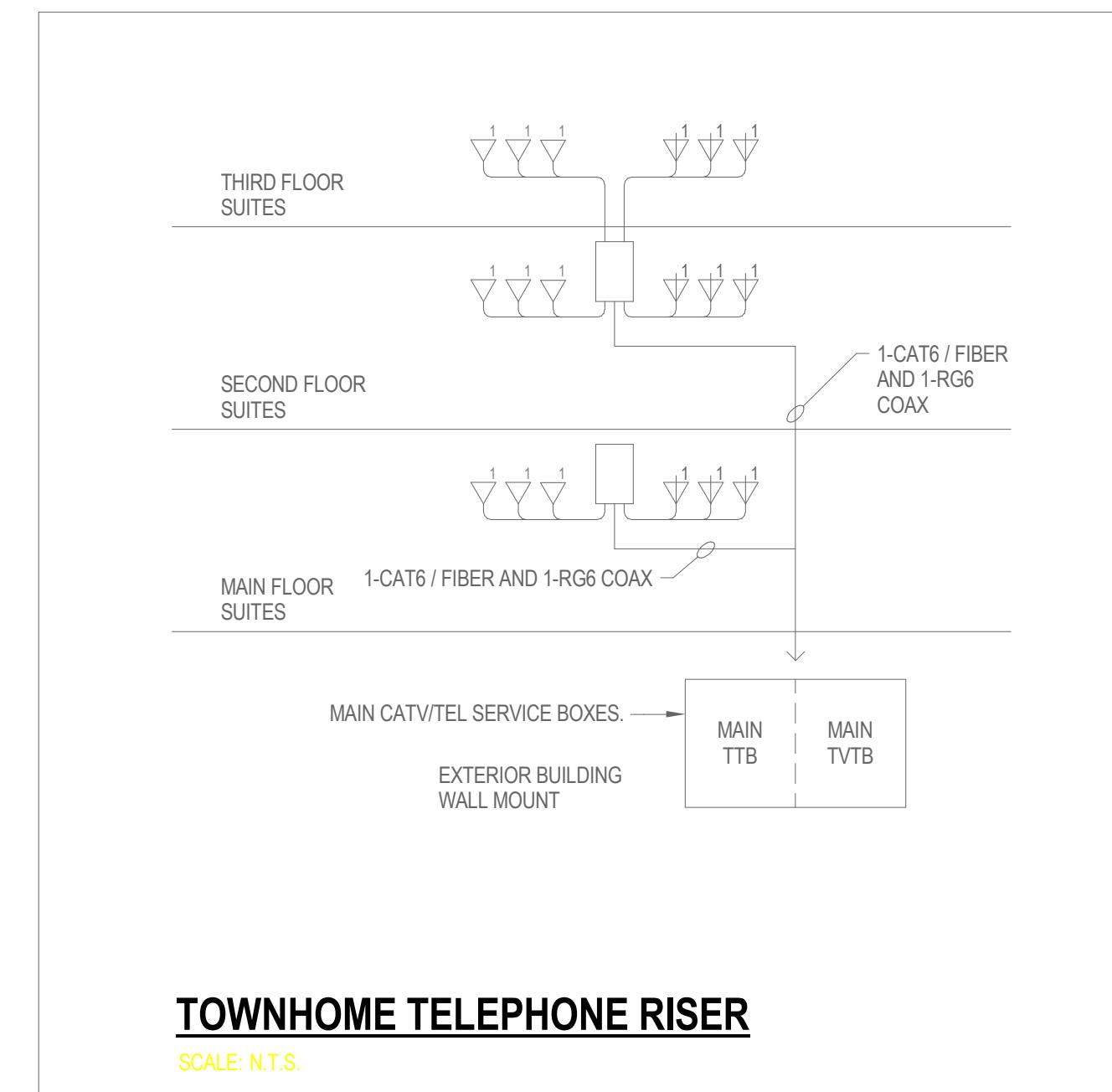
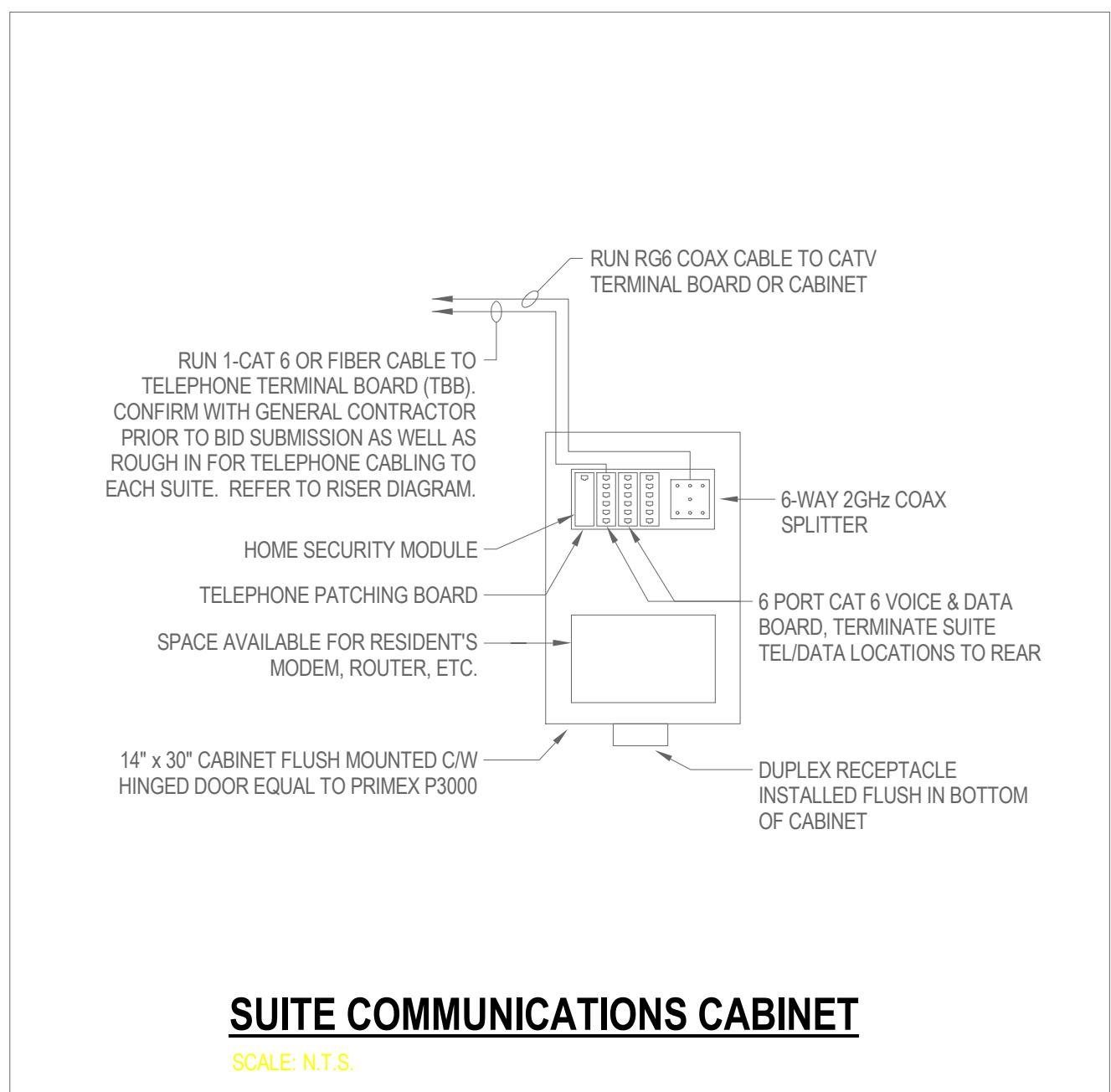
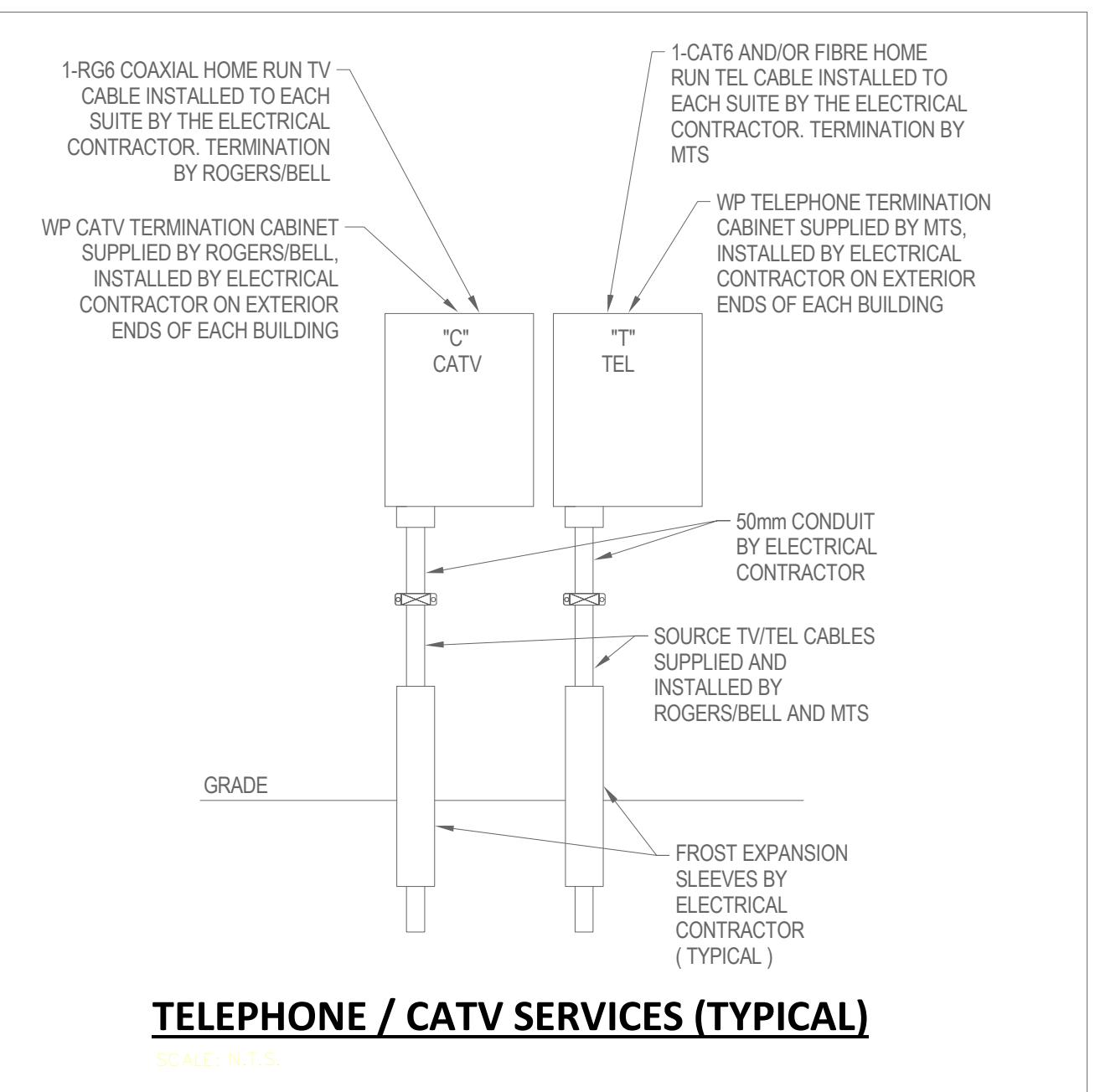
SHEET NO:
E203

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTAGE	LAMP	MOUNTING	DESCRIPTION
INTERIOR							
S1	BY CONTRACTOR	BY CONTRACTOR	120 V	21 VA	1815 LUMEN LED	SURFACE MOUNT	13" DIAMETER, WHITE FINISH, DIMMING
S2	BY CONTRACTOR	BY CONTRACTOR	120 V	15 VA	1300 LUMEN LED	SURFACE MOUNT	10" DIAMETER, WHITE FINISH, DIMMING
S3	BY CONTRACTOR	BY CONTRACTOR	120 V	10 VA	784 LUMEN LED	RECESSED	4" LED WET LISTED DOWNLIGHT, PHASE DIMMABLE SPRING CLIP MOUNTED C/W UNIVERSAL MOUNTING PLATE
S4	BY CONTRACTOR	BY CONTRACTOR	120 V	30 VA	- LUMEN LED	WALL MOUNT	WALL MOUNT VANITY, TRIAC DIMMABLE, 3xMED BASE E26 SCREW-IN LAMPS.
S5	BY CONTRACTOR	BY CONTRACTOR	120 V	10 VA	650 LUMEN LED	RECESSED	4" RECESSED LED OPEN DOWNLIGHT - REGRESSED BAFFLE, SPRING CLIP C/W UNIVERSAL MOUNTING PLATE
SX1	BY CONTRACTOR	BY CONTRACTOR	120 V	23 VA	784 LUMEN LED	RECESSED	4" LED WET LISTED DOWNLIGHT, PHASE DIMMABLE SPRING CLIP MOUNTED C/W UNIVERSAL MOUNTING PLATE



1	03/26/25	ISSUED AS PROTOTYPICAL DRAWING
NO.	DATE	DESCRIPTION

PROJECT:
CMHC HOUSING CATALOGUE

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SHEET TITLE:
AB SIXPLEX - DETAILS

PROJECT NO: Project Number
SCALE: N.T.S.

SHEET NO:

E300

ELECTRICAL CONTRACTOR GENERAL REQUIREMENTS

General Requirements, Division 1, shall form part of this Division, and all instructions to bidders, General Conditions, amendments thereto, and General Requirements of that Division apply to and govern the work of this Division.

1. The electrical contractor shall be responsible for all electrical work, and are to be read in conjunction with those Divisions.
2. "Utility" shall hereafter mean the electrical power supply company, telephone supply company, fibre network supply company and cable TV supply company.
3. The electrical installation shall adhere to the latest edition of the Canadian Electrical Code (CEC), applicable building code, and all other codes in force by the local Authority Having Jurisdiction (AHJ).
4. Electrical drawings and these specifications are complementary to each other. Treat discrepancies between them as required to achieve the most restrictive conditions. Contact Engineer 5 days prior to tender close if discrepancies or errors/warnings are found.
5. Provide all labour, materials, tools, equipment and fittings from architectural and structural drawings. Make any necessary adjustments to accommodate structural and architectural conditions without additional charge. Notify engineer prior to completion.
6. Provide all electrical equipment, electrical equipment conductors and fittings from architectural and structural drawings required for the complete installation and testing of all systems described herein.
7. Materials are to be new, not inferior to the quality specified, and conform to standards issued by CSA, I.I.C., or any other Canadian standards agency.
8. Maintain uniformity of manufacture, type, and style within a particular group or class of equipment throughout the work.
9. All materials and materials covered by these specifications shall be subject to inspection at any and all times by the Engineer or the Owner's representative. If the inspection finds any material that does not conform to these specifications, the contractor shall be required to remove the material and replace it with material that conforms to these specifications within 3 (3) days after being notified by the Engineer or Owner, remove the material the premises and is not entitled to any additional charge.
10. Provide all necessary measurements and assistance to Engineer on his visits to the site at any phase of the project, including after completion.
11. No deviations from the drawings shall be permitted without written permission from the Engineer.
12. Workmanship

A. All work is to be executed in a neat and orderly manner, with all surface conduit following building lines, and concrete-embedded conduit having minimum 25% of slab thickness coverage. Coordinate with structural engineer.

B. Keep a competent foreman on the project for its duration, unless able to provide satisfactory reasons for changing that person.

C. Tradesmen from foreign, including specialty electrical sub-trades, are to be competent in all aspects of work to which they are assigned. Specialty sub-trades include, but may not be limited to, audio/visual, systems, voice/data infrastructure (provide copy of workers' certification by equipment manufacturer), public address, intercommunication, security/access control, and lighting control.

D. Do not position device boxes based on Electrical drawings unless dimensions are shown. Determine placement of device boxes from Architectural drawings. If placement is not shown, consult with Architect.

E. All equipment devices shall be horizontal and vertically so their centrelines align. Boxes on opposite sides of a wall are to be separated by at least one stud space, unless directed otherwise, or provide sound-deadening material between them.

F. Locating devices 3 meters or less from position shown on drawings as directed by engineer at rough-in shall not entitle contractor to any extra charges.

13. Protection of work and equipment

A. Any damage to equipment or work is to be repaired at no expense to Owner.

B. All tools and protective equipment shall be provided by Owner.

C. Where panels or other items are scratch, repair or affected surface to same finish as other sides or to voltage or system-coded colours.

D. All newly installed equipment to be left clean and in new condition at the completion of the project.

14. Excavation, Backfilling, etc

A. All electrical underground work requiring excavating, trenching, etc., shall be the responsibility of the electrical contractor.

B. Coordinate with utility companies and General Contractor.

C. All trench bottoms to have 60mm of clean screen sand as base for conduits. Provide 300mm of screen sand on top of conduits prior to backfilling.

D. Where underground conduits require protection, Provide 75mm of concrete encasement. Electrical contractor to confirm with utility companies, and local inspection department, requirements of encasement prior to backfilling.

E. Prior to commencing any work, the electrical contractor is responsible for reviewing all mechanical / electrical services including deep service to avoid any possible conflict. Refer to Mechanical and Civil drawings prior to backfilling.

F. Prior to commencing any work, the electrical contractor is responsible for reviewing all mechanical / electrical services including deep service to avoid any possible conflict. Refer to Mechanical and Civil drawings prior to backfilling.

15. Vacant premises before tender in order to ascertain working conditions. No extras will be paid based on site or working conditions.

16. Provide sleeves, inserts, etc. as required. General Contractor for placement in concrete, and supervise their placement. Correct incorrect placement at own expense.

A. X-Ray scan all concrete prior to cutting, coring, etc. Provide scans to owner/engineer upon request. Review results with all disciplines with infrastructure that may be affected by cutting, coring, etc.

17. Remove debris and surplus materials resulting from this trade's work.

18. No compensation shall be given for requests for extras or equipment substitution due to late ordering of material, including delays due to rejection of shop drawings.

SHOP DRAWINGS SUBMITTALS

1. All shop drawings shall be manufacturers' data sheets and information. Provide shop drawings in electronic PDF format. No facsimiles, screen captures, blank catalogue pages, or poor quality reproductions will be accepted.

2. Include only information relative to the equipment for which the shop drawing is submitted. Where equipment choices exist on sheet, indicate the proposed equipment with arrows or highlighting. Additionally, provide a list of the submitted equipment. Shop drawings to clearly state equipment tag-descriptions.

3. All shop drawings submitted to the Engineer must bear the approvals of the Contractor prior to engineer review. Work shall not proceed with items until Engineer's reviews are complete and shop drawings are returned.

4. Consultant's review will be for conformance with the design concept and requirements of any and all related construction documents, and that the materials suit the site conditions and fit in the available space.

5. Supply shop drawings for at least the following items or types:

A. Distribution and sub-distribution panels, panelboards, disconnect switches, transformers, SPDs, circuit breakers, fuses, and their characteristics, instrument transformers, protective relays, etc., and complete fault and coordination study.

B. Motor control, including starters, contactors, overload heaters, control relays, time-delay relays, motor circuit and control fuses and breakers, pilot lights, control transformers, and selector switches.

C. All light fixtures and controls (inflow voltage controls).

D. All low voltage systems' components including alarm, structured cabling, etc.

E. Wiring and cabling devices including receptacles, switches, floor boxes, power poles, cable tray, data racks, UPS systems, and disconnect switches.

F. Emergency gen-set and transfer switch equipment (where specified).

G. Firestopping system and details (See firestopping section below).

ALTERNATES

1. No alternates will be allowed without written acceptance on alternate submittals from the engineer prior to close of tender.

2. The contractor remains solely responsible for ensuring that the materials meet or exceed the requirements of any and all related construction documents, and that the materials will suit the site conditions and fit in the available space.

PERMITS, CERTIFICATES, AND FEES

1. Obtain, pay for, and submit all permits and necessary documents (including drawing approvals by the Electrical Inspection Authority) necessary for the electrical work to commence.

2. On completion of the work, submit a Certificate of Acceptance from the Inspection Authority to the Engineer.

FIRE STOPPING

1. The electrical contractor, in coordination with the general contractor, is responsible for the installation of all fire stopping systems relating to electrical penetrations through fire rated ceilings, wall or assemblies. The fire stopping systems utilized, shall maintain an effective barrier against the spread of flames, smoke and hot gases and shall have passed the CAN/ULC-S115 approved testing procedure.

2. The electrical contractor must provide adequate notification to the electrical engineer that firestopping has been completed to allow for field observations and reporting prior to concealment.

3. Submit shop drawings for approval of all fire stopping system details, including but not limited to, product manufacturer's specifications, technical data for each material and CUL approved documentation.

PROGRESS CLAIMS, EXTRAS, AND CREDITS

1. Immediately after award of contract, provide Engineer with an itemized schedule of the tender price, with major items, milestones, etc. as line items (examples: Mobilization, Conduit, Service Equipment, Luminaires, Wiring, Voice/Data system shown, totaling to the quoted price. Thereafter, when submitting progress claims, this schedule shall be paid or deleted to meet current needs, and shall be made based upon percentage completion of each line item. Extras shall be paid or deleted to meet current needs.

2. Any claim for progress or extras or offset of credit with respect to proposed electrical changes must be accompanied by a complete breakdown of labour and materials, together with explanation of any condition(s) that would justify the award of the claim or offset.

A. Such claim must show quantities, unit prices, labour rates and hours, suppliers' invoices, and any other substantiating documentation.

B. All equipment and material related to a claim must be installed or stored on site in a secure and safe location.

C. Where agreement cannot be arrived at, claims are to be dealt with under General Conditions, and proposed changes are to be enacted as directed in writing.

INSPECTIONS AND TESTS

1. Before energizing any portion of the electrical system, provide and pay for testing equipment as part of this contract to perform 1000 volt megger tests (L-L, L-N, L-G) on all feeders and branch circuits, and verify results conform to the Canadian Electrical Code, and to the satisfaction of the Inspection Authority and to the Engineer.

2. Provide documents for inspection by the inspection authority.

3. Provide documents for inspection by the electrical engineer.

4. Provide documents for inspection by the fire safety engineer.

5. Provide documents for inspection by the mechanical engineer.

6. Provide documents for inspection by the structural engineer.

7. Provide documents for inspection by the architect.

8. Provide documents for inspection by the interior designer.

9. Provide documents for inspection by the landscape architect.

10. Provide documents for inspection by the acoustical engineer.

11. Provide documents for inspection by the energy auditor.

12. Provide documents for inspection by the fire safety engineer.

13. Provide documents for inspection by the mechanical engineer.

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67. Provide documents for inspection by the mechanical engineer.

68. Provide documents for inspection by the structural engineer.

69. Provide documents for inspection by the interior designer.

70. Provide documents for inspection by the landscape architect.

71. Provide documents for inspection by the acoustical engineer.

72. Provide documents for inspection by the fire safety engineer.

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