LIST OF DRAWINGS

FLOOR AREA - UNIT #101B
BASEMENT (SUITE) = 630.00 SQ. FT.

FLOOR AREA - UNIT #101
MAIN = 617.67 SQ. FT.
UPPER = 648.33 SQ. FT.
TOTAL = 1266.00 SQ. FT.

FLOOR AREA - UNIT #102B
BASEMENT (SUITE) = 630.00 SQ. FT.

FLOOR AREA - UNIT #102
MAIN = 617.67 SQ. FT.
UPPER = 648.33 SQ. FT.
TOTAL = 1266.00 SQ. FT.

FLOOR AREA - UNIT #201B
BASEMENT (SUITE) = 630.00 SQ. FT.

FLOOR AREA - UNIT #201
MAIN = 573.79 SQ. FT.
UPPER = 648.33 SQ. FT.
TOTAL = 1222.12 SQ. FT.

FLOOR AREA - UNIT #202B
BASEMENT (SUITE) = 630.00 SQ. FT.

FLOOR AREA - UNIT #202
MAIN = 573.79 SQ. FT.
UPPER = 648.33 SQ. FT.
TOTAL = 1222.12 SQ. FT.

GENERAL NOTES:

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NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/07/24	DP PLANS	S.W.
02.	27/11/24	BP PLANS	S.W.
03.	07/05/25	ADDRESSING	AD.
04.	00.00.00	--	--
05.	00.00.00	--	--
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MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

STATUS:
BP

PROJECT NUMBER: 243-24
DESIGN BY: JT
DRAWN BY: JT
LAST REVISION BY:
LAST REVISION DATE: *
SCALE:

DRAWING SET:

SHEET NAME:
Cover Page

PAGE: **A-0.0**

GENERAL NOTES:

1. ALL DIMENSIONS SHOULD BE CONFIRMED ON SITE. ANY CHANGES OR DICREPANCIES SHOULD BE REPORTED TO CONTRACTOR AND DESIGNER PRIOR TO FRAMING.

2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED AS BEING A CLEAR DIMENSION. CLEAR DIMENSIONS ARE FROM FINISH SURFACE TO FINISH SURFACE.

3. CONFIRM ALL ROUGH OPENING REQUIREMENTS FOR PLUMBING FIXTURES WITH SUPPLIERS PRIOR TO FRAMING.

4. CONFIRM ALL ROUGH OPENING REQUIREMENTS FOR WINDOWS AND DOORS WITH SUPPLIERS PRIOR TO FRAMING.

5. ENSURE THAT ALL ADJACENT GYPSUM BOARD SURFACES ARE FLUSH. ALL EXPOSED GYPSUM BOARD SURFACES ARE TO BE TAPED AND SANDED.

6. CONFIRM ALL FLOOR AND ROOF JOIST SIZE, LOCATIONS AND SPACING WITH THE APPROVED SUPPLIERS LAYOUTS.

7. UNLESS OTHERWISE NOTED, ALL INTERIOR DOORS TO HAVE A MINIMUM 3" RETURN.

SPRAY FOAM NOTES: CCMC# 14140-L
-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS
-FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED
-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8 DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-
GALVANISED NAILS TO BE USED

EXTERIOR FINISHES:

1	ASPHALT SHINGLES	7	SMOOTH STUCCO FINISH - DARK GREY
2	METAL ROOF	8	BOARD & BATTEN FINISH - WHITE
3	6" ALUMINUM FASCIA - BLACK	9	BOARD & BATTEN FINISH - DARK GREY
4	HARDIE PANEL - DARK GREY	10	WOOD SLAT AS SPEC'D
5	HARDIE PANEL - DARK GREY (VERTICAL)	11	CONCRETE PARGING
6	SMOOTH STUCCO FINISH - WHITE	12	PRECAST CONCRETE

ROOF ASSEMBLIES:

(R1) ASPHALT SHINGLES OR EQUIVALENT ROOFING FELT
3/8" PLYWOOD OR OSB SHEATHING C/W H-CLIPS
ENGINEERED ROOF TRUSSES (AS PER SUPPLIERS LAYOUT)
MIN. R50 LOOSE-FILL OR FIBERGLASS BATT INSULATION
6 MIL. (15mm) POLY VAPOUR BARRIER (CAN/CGSB)
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED

FOOTING ASSEMBLIES:

(G1) WALL 20"X8" THICK
CONCRETE STRIP FOOTING
3-15M REBAR CONTINUOUS

(G2) WALL 30"X8" THICK
CONCRETE STRIP FOOTING
3-15M REBAR CONTINUOUS

TRUSS ASSEMBLIES:

(T1) 5/8" EXTERIOR GRADE TYPE X GYPSUM BOARD TAPED
ENGINEERED ROOF TRUSS (AS PER SUPPLIER'S LAYOUT) PARALLEL TO PARTY WALL
5/8" EXTERIOR GRADE TYPE X GYPSUM BOARD TAPED

FLOOR ASSEMBLIES:

(F1) FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G SHEATHING (GLUED & SCREWED)
ENGINEERED FLOOR JOISTS (AS PER SUPPLIER'S LAYOUT)
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED & SANDED
INTERIOR FINISH

(F2) 3" CONC. SLAB
MIN. 6 MIL VAPOUR BARRIER MUST BE BETWEEN POURED AND BASE
6" COMP. GRAVEL

(F3) REFER TO F8k (STC 46);
TABLE A-9.10.3.1.-B NBC 2023 AE
FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G SHEATHING (GLUED & SCREWED)
ENGINEERED FLOOR JOISTS (AS PER SUPPLIER'S LAYOUT)
MIN. R-28 BATT INSULATION
RESILIENT CHANNEL SPACED 400mm O.C.
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED & SANDED
INTERIOR FINISH

INTERIOR WALL ASSEMBLIES:

(NOTE: ALL INTERIOR WALLS TO HAVE PRESSURE TREATED BOTTOM PLATES)

(P1) INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
2X4 STUDS @ 24" O.C.
1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P2) INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
2X6 STUDS @ 24" O.C.
1/2" STANDARD GYPSUM BOARD (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P3) REFER TO W13a (STC 57);
TABLE A-9.10.3.1A; NBC 2023 AE
INTERIOR FINISH
5/8" TYPE X GYPSUM BOARD TAPED & SANDED
2X6 STUDS @ 24" O.C. (SEE ENG. DETAILS FOR STUD SIZE AT TALL WALLS)
MIN. R12 BATT INSULATION
1" AIR SPACE
MIN. R12 BATT INSULATION
2X6 STUDS @ 24" O.C. (SEE ENG.DETAILS FOR STUD SIZE AT TALL WALLS)
5/8" TYPE X GYPSUM BOARD TAPED & SANDED (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P4) REFER TO W13a (STC 57);
TABLE A-9.10.3.1A; NBC 2023 AE
INTERIOR FINISH
5/8" TYPE X GYPSUM BOARD TAPED & SANDED
2X4 STUDS @ 24" O.C. (SEE ENG. DETAILS FOR STUD SIZE AT TALL WALLS)
MIN. R12 BATT INSULATION
1" AIR SPACE
MIN. R12 BATT INSULATION
2X4 STUDS @ 24" O.C. (SEE ENG.DETAILS FOR STUD SIZE AT TALL WALLS)
5/8" TYPE X GYPSUM BOARD TAPED & SANDED (& 1/2" BLUE BOARD FACING TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

EXTERIOR WALL ASSEMBLIES:

(NOTE: FIRE RATED EXTERIOR SHEATHING PRODUCT TO BE INSTALLED ON ALL EXTERIOR WALLS DURING CONSTRUCTION AS PER NBC)

(E1) HARDIE OR EQUIVALENT (AS PER ELEV. DRAWING) AS PER MANUFACTURER'S SPECS.
2-PLY BUILDING PAPER
3/8" PLY OR OSB SHEATHING (FIRE RESISTANCE OSB AS REQ'D FOR AFC-5.6.1.2)
2X6 WOOD STUDS @ 24" O.C. (UNLESS OTHERWISE NOTED)
R-22 BATT INSULATION MIN.
6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/ SHOWER AS REQUIRED)
INTERIOR FINISH

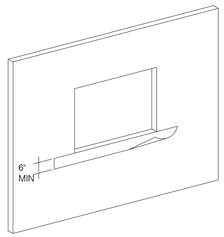
(E2) SMOOTH PARGING ABOVE GRADE
WATER PROOFING/DAMP PROOFING BELOW GRADE, INCLUDING TOP OF FOOTING BOTH SIDES OF WALL
8" SITECAST CONC. ON DAMP PROOFING
CAPILLARY BREAK IN FOOTING KEYWAY
AIR SPACE
2X6 STUDS @ 24" O.C.
R-20 FIBERGLASS BATT INSULATION
6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/ SHOWER AS REQUIRED)
INTERIOR FINISH

(E3) TALL WALL CONSTRUCTION
SEE TALL WALL DETAIL

(E4) HARDIE OR EQUIVALENT (AS PER ELEV. DRAWING) AS PER MANUFACTURER'S SPECS.
2-PLY BUILDING PAPER
3/8" PLY OR OSB SHEATHING (FIRE RESISTANCE OSB AS REQ'D FOR AFC-5.6.1.2)
2X6 WOOD STUDS @ 16" O.C. (UNLESS OTHERWISE NOTED)
R-24 BATT INSULATION MIN.
6 MIL. (0.15mm) POLY VAPOUR BARRIER (WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM BOARD TAPED, FILLED, & SANDED FOR PAINTING (1/2" BLUE BOARD FACING TUB/ SHOWER AS REQUIRED)
INTERIOR FINISH

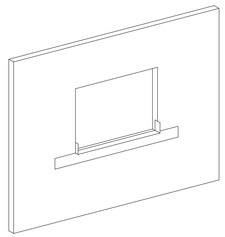
TYPICAL WINDOW INSTALLATION DETAILS

NOTE: PRIOR TO INSTALLING WINDOWS , PLEASE ENSURE YOU APPLY PROPER STICK AND SEAL TO JAMB AS SHOWN

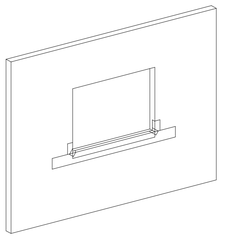


STEP 1
- INSTALL SILL FLASHING PAPER AT BOTTOM EDGE OF OPENING, STAPLE ALONG TOP EDGE 10mm FROM TOP OF PAPER

- LEAVE BOTTOM EDGE UNATTACHED FOR WATER RESISTANT BARRIER (SHEATHING PAPER) INSTALLATION TO GO UNDERNEATH FLASHING PAPER

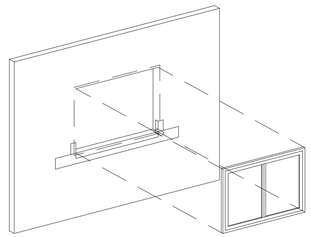


STEP 2
- INSTALL PEEL AND STICK OVER JAMB AND SILL FLASHING PAPER. EXTEND VERTICALLY 6".

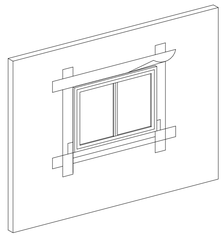


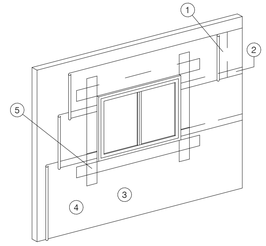
STEP 3
- CUT PEEL AND STICK MEMBRANE FOLD OVER SILL AND JAMB FLASHING PAPER AS SHOWN

- PLACE PEEL AND STICK PATCH ON CORNERS BETWEEN SILL AND JAMB



STEP 4
- INSTALL WINDOW AS PER MANUFACTURE





STEP 5
- INSTALL PEEL AND STICK OVER WINDOW FLANGE INSTALL PEEL AND STICK AT HEAD OF WINDOW LAST

INSTALL WINDOW HEAD FLASHING OVER THE WINDOW HEAD PEEL AND STICK FLASHING, AND PLACE THE WATER RESISTANT BARRIER (SHEATHING PAPER) OVER THE FLANGE OF THE METAL FLASHING

STEP 6
1. LAP WATER RESISTANT BARRIER (SHEATHING PAPER) VERTICALLY 6".

2. LAP WATER RESISTANT BARRIER (SHEATHING PAPER) HORIZONTALLY 4"

3. THIS SHEET OF WATER RESISTANT BARRIER (SHEATHING PAPER) TO SLIP UNDER SILL AND FLASHING PAPER, NOTCH WATER RESISTANT BARRIER TO FIT TIGHTLY AROUND WINDOW FRAME PROFILE

4. TWO LAYERS OF WATER RESISTANT BARRIER (SHEATHING PAPER) STAGGERING JOINTS 12" MIN

5. SLIP LOWER END OF JAMB FLASHING PAPER AND SILL FLASHING PAPER OVER WATER RESISTANT BARRIER AT THE WINDOW SILL

GENERAL NOTES:

1. DIMENSIONS INDICATED ON SCHEDULE ARE FOR PRICING AND REFERENCE PURPOSE ONLY. SUPPLIER TO SUBMIT SHOP DRAWINGS FOR CONTRACTOR REVIEW PRIOR TO EXECUTING THE WORK. SHOP DRAWINGS TO CONFIRM ALL REQUIRED ROUGH OPENINGS FOR FRAMING.
2. SUPPLIER TO CONFIRM THAT BEDROOM WINDOWS MEET EGRESS REQUIREMENTS.
3. ALL OPERABLE WINDOWS TO BE COMPLETE WITH REMOVABLE SCREENS. SCREENS TO BE SHIPPED SEPARATELY FROM WINDOWS TO PREVENT DAMAGE.
4.GLASS TYPE AND THICKNESS TO MEET NATIONAL BUILDING CODE 2023 REQUIREMENTS FOR ALL SIDELITES.
5.REFER TO BUILDING ELEVATIONS FOR HINGE DIRECTIONS ON AWNING AND CASEMENT UNITS.
6. INSTALL ALL WORK IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND REVIEW SHOP DRAWINGS.
7. PROVIDE ALL COMPANION ACCESSORIES AND ASSOCIATED ITEMS FOR A COMPLETE AND FUNCTIONING INSTALLATION.
8. FILL FRAMING VOIDS WITH INSULATION AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY CODE.
9. WINDOW FRAME WIDTH TO BE CONFIRMED AND APPROVED BY DESIGNER.
10. REFER TO DOOR+WINDOW SCHEDULE OR ELEVATIONS FOR INFORMATION NOT DRAWN.

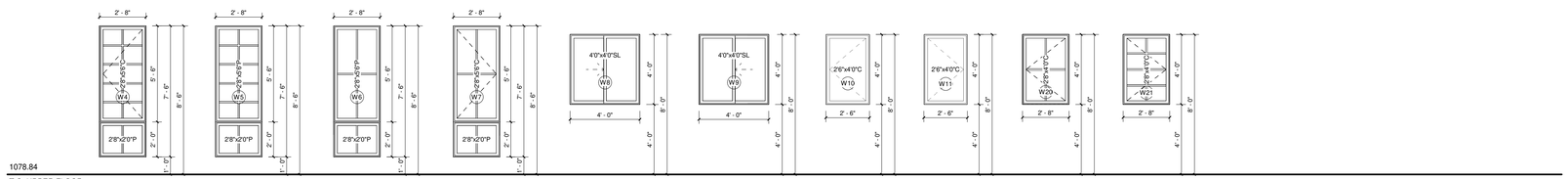
WINDOW SCHEDULE

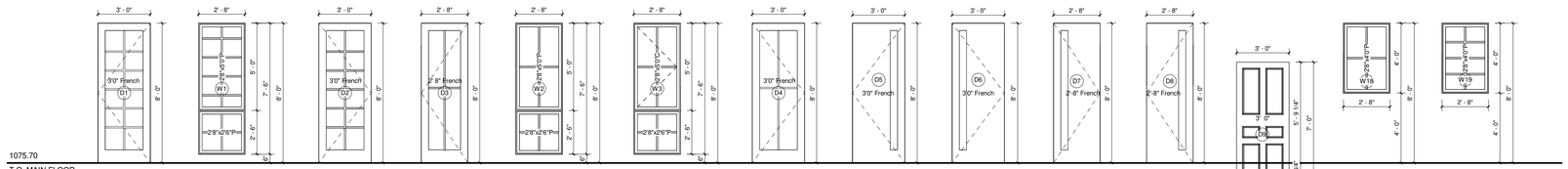
WINDOW#	WINDOW SIZE	ROUGH OPENING	TYPE	LOCATION	QTY
W1	2' 8" X 7' 6"	2' 9" X 7' 7"	---	LIVING AREA	1
W2	2' 8" X 7' 6"	2' 9" X 7' 7"	---	LIVING AREA	1
W3	2' 8" X 7' 6"	2' 9" X 7' 7"	---	LIVING AREA	1
W4	2' 8" X 7' 6"	2' 9" X 7' 7"	---	BEDROOM #2	1
W5	2' 8" X 7' 6"	2' 9" X 7' 7"	---	BEDROOM #2 /STAIRS	2
W6	2' 8" X 7' 6"	2' 9" X 7' 7"	---	BEDROOM #2 / HALL / STAIRS	3
W7	2' 8" X 7' 6"	2' 9" X 7' 7"	---	BEDROOM #2	1
W8	4' 0" X 4' 0"	4' 1" X 4' 1"	---	MASTER BEDROOM	2
W9	4' 0" X 4' 0"	4' 1" X 4' 1"	---	MASTER BEDROOM	2
W10	2' 6" X 4' 0"	2' 7" X 4' 1"	---	BEDROOM #1	2
W11	2' 6" X 4' 0"	2' 7" X 4' 1"	---	BEDROOM #1	2
W12	4' 0" X 3' 0"	4' 1" X 3' 1"	EGRESS	SUITE BEDROOM #2	2
W13	4' 0" X 3' 0"	4' 1" X 3' 1"	EGRESS	SUITE BEDROOM #2	2
W18	2' 8" X 4' 0"	2' 9" X 4' 1"	---	LIVING AREA / HALL / STAIRS	4
W19	2' 8" X 4' 0"	2' 9" X 4' 1"	---	LIVING AREA / STAIRS / BEDROOM #2	3
W20	2' 8" X 4' 0"	2' 9" X 4' 1"	---	BEDROOM #2	2
W21	2' 8" X 4' 0"	2' 9" X 4' 1"	---	BEDROOM #2	1

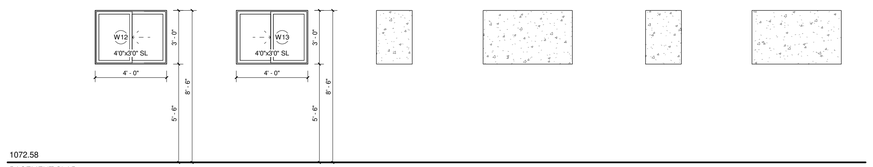
DOOR SCHEDULE

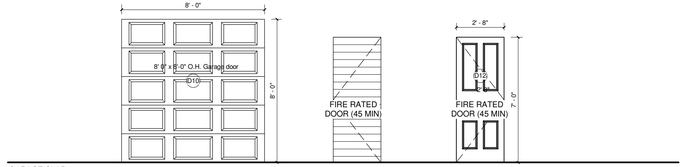
DOOR#	DOOR SIZE	ROUGH OPENING	TYPE	LOCATION	QTY
D1	3' 0" X 8' 0"	3' 1" X 8' 1"	---	FOYER	1
D2	3' 0" X 8' 0"	3' 1" X 8' 1"	---	STAIRS	1
D3	2' 8" X 8' 0"	2' 9" X 8' 1"	---	STAIRS	1
D4	3' 0" X 8' 0"	3' 1" X 8' 1"	---	FOYER	1
D5	3' 0" X 8' 0"	3' 1" X 8' 1"	---	FOYER / KITCHEN	1
D6	3' 0" X 8' 0"	3' 1" X 8' 1"	---	FOYER / KITCHEN	1
D7	2' 8" X 8' 0"	2' 9" X 8' 1"	---	STAIRS	1
D8	2' 8" X 8' 0"	2' 9" X 8' 1"	---	STAIRS	1
D9	3' 0" X 7' 0"	3' 1" X 7' 1"	---	MOBILITY STORAGE	2
D10	8' 0" X 8' 0"	8' 1" X 8' 1"	---	GARAGE	4
D11	2' 8" X 7' 0"	2' 9" X 7' 1"	---	GARAGE	1
D12	2' 8" X 7' 0"	2' 9" X 7' 1"	---	GARAGE	3

CONTRACTOR, FRAMER AND WINDOW
MANUFACTURER TO CONFIRM SIZES BEFORE ORDER AND INSTALL









JTA DESIGN + PERMITS

GENERAL NOTES:

MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

PROJECT NUMBER:
243-24

STATUS:
BP

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NO.	DATE(D/M/Y)	DETAIL	BY
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02.	27/11/24	BP PLANS	S.W.
03.	--	--	--
04.	--	--	--
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06.	--	--	--

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DRAWING SET:

SHEET NAME:
Assemblies

DESIGN BY: JT

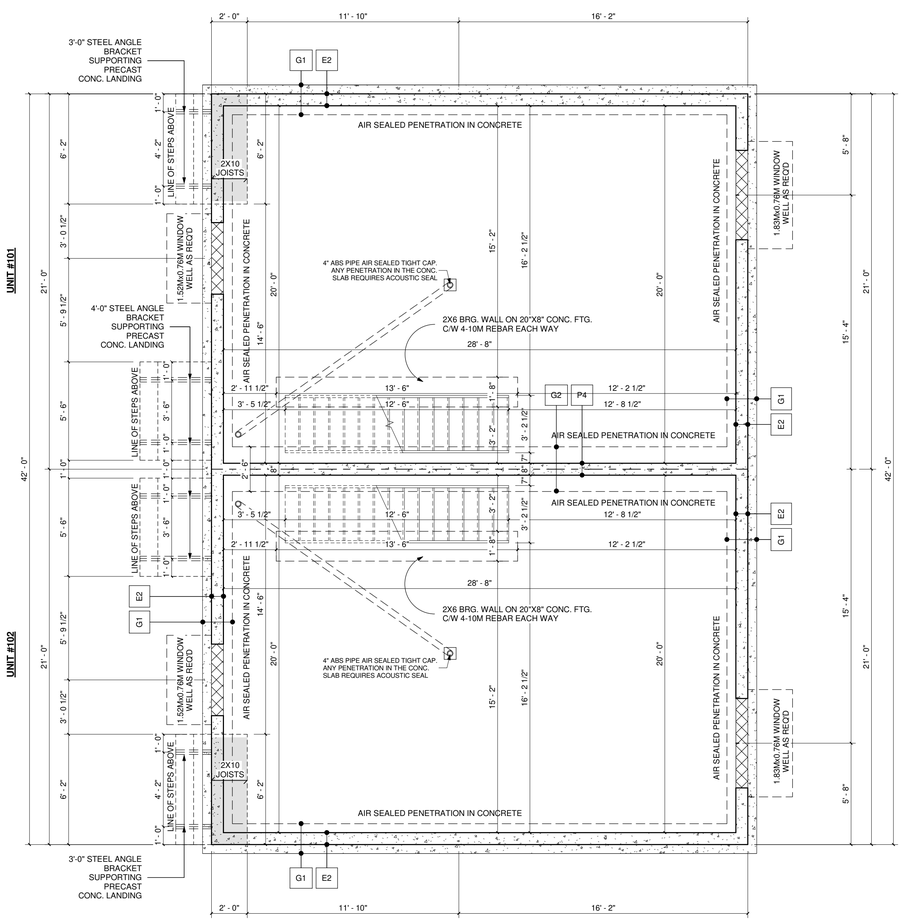
DRAWN BY: JT

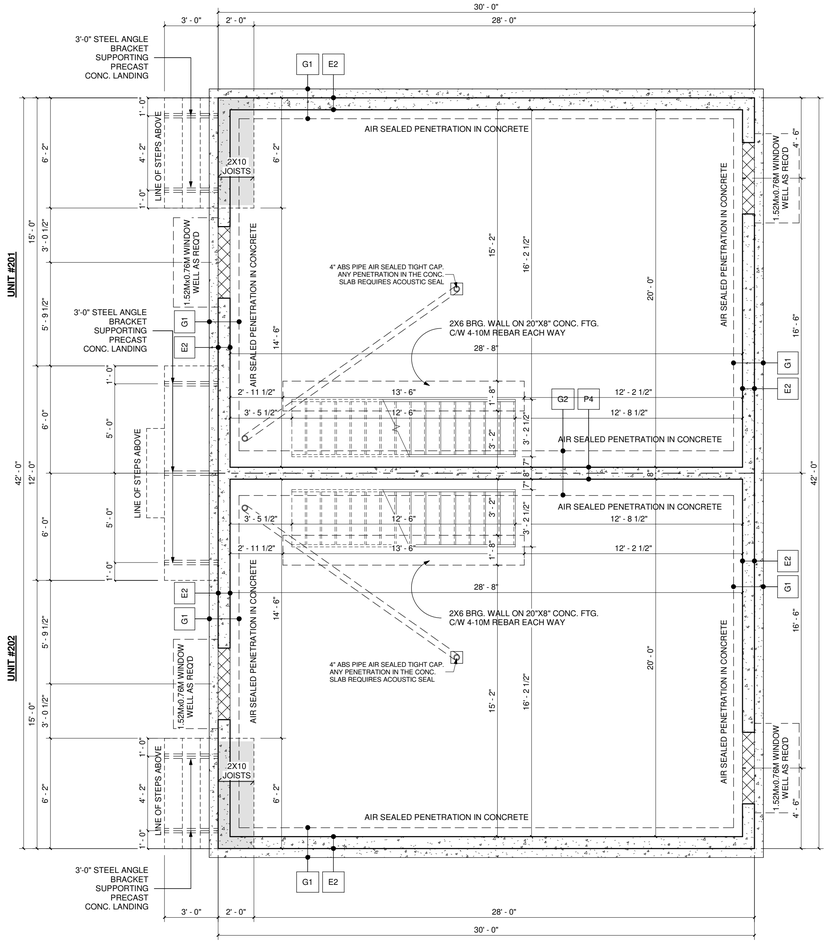
LAST REVISION BY:

PRINTED: 2025-07-09 10:39:45 AM

SCALE: As indicated

PAGE: **A-0.1**





FOUNDATION PLAN

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

GENERAL NOTES:

FOR RADON PIPE SIZE:
-THE CODE IS NOT SPECIFIC ON THE TYPE OF PIPE THAT MAY BE USED, ONLY ON THE DIMENSION OF NOT LESS THAN 100mm (4")

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MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

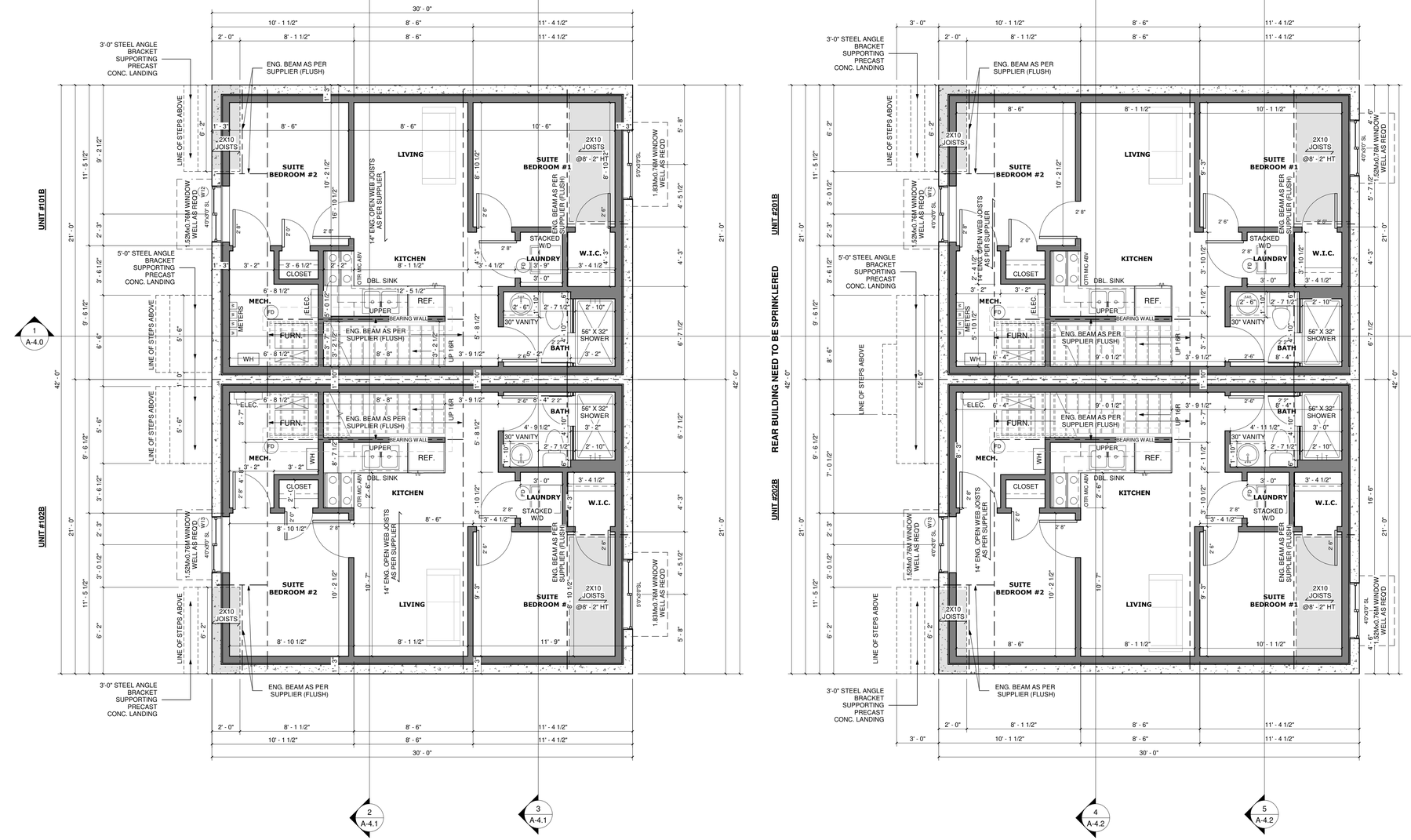
STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	1/4" = 1'-0"

DRAWING SET:

SHEET NAME:
Foundation Plan

PAGE: **A-1.0**



BASEMENT FLOOR PLAN

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

9'-0" BASEMENT FLOOR

GENERAL NOTES:

BASEMENT FLOOR AREA
UNIT #101B - 630.00 SQ.FT.
UNIT #102B - 630.00 SQ.FT.
UNIT #201B - 630.00 SQ.FT.
UNIT #202B - 630.00 SQ.FT.

-ENSURE HEADROOM AT ELEC. PANEL IS MIN 6'-6" AND HAS 39" CLEARANCE.
-EXACT FURNACE & HWT LOCATION & ORIENTATION TO BE DETERMINE BY HEATING CONTRACTOR. RADON PIPING LOCATION TBD ON SITE.

WITH LIFEBREATH RNC 205
HEAT RECOVERY VENTILATION
(SEE SPEC. FOR DETAILS A-5.3)

LENNOX FURNACE WITH AFUE Rating of 95% - 98.7%

BRADFORD WATER HEATER WITH 0.67-0.70 ENERGY STAR RATING AND 70-80 RECOVERY EFFICIENCY

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CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

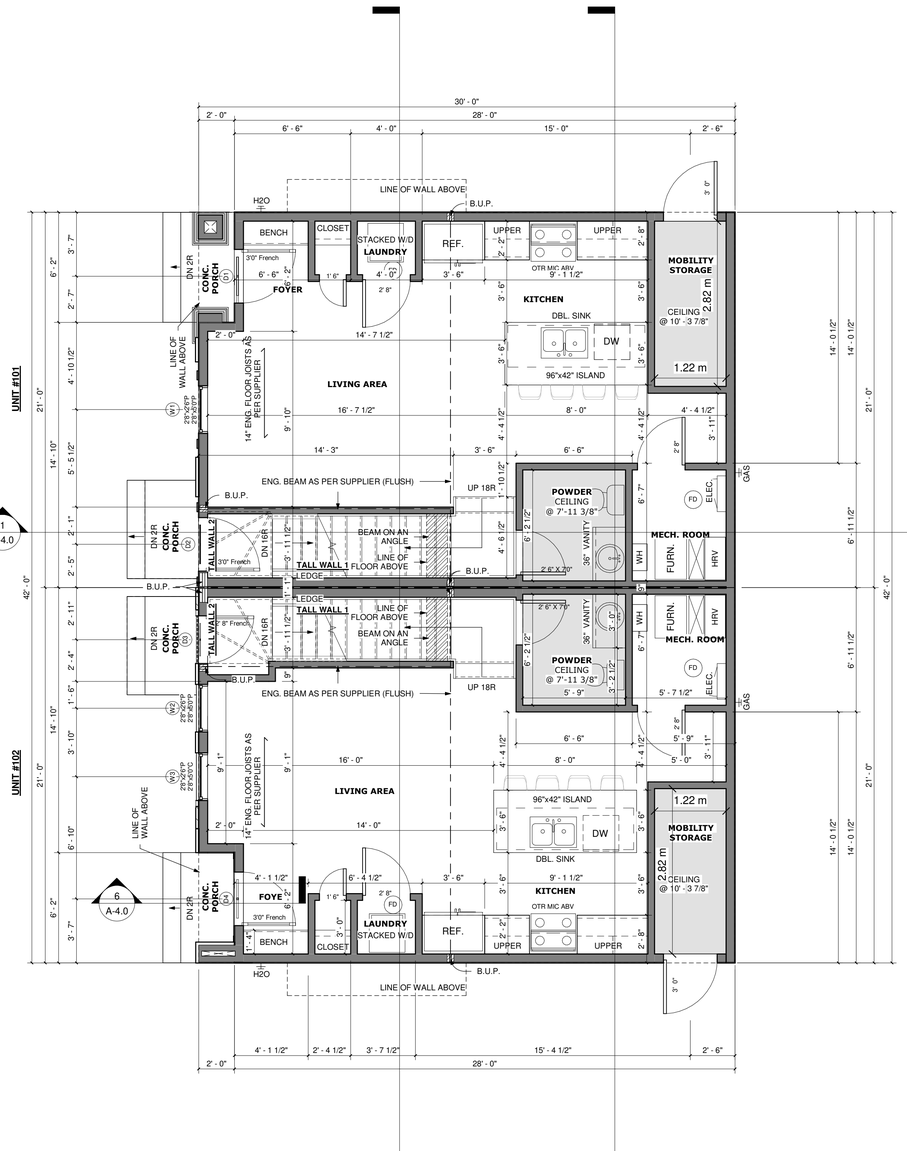
STATUS:
BP

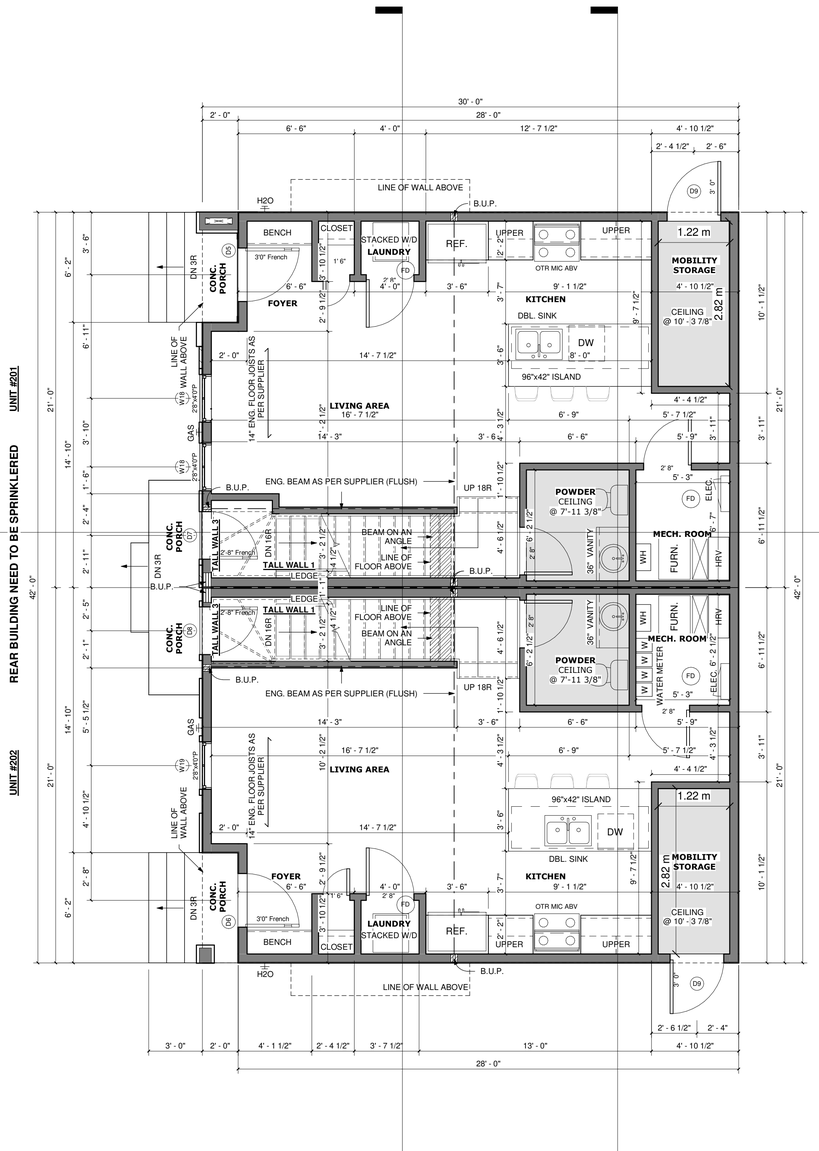
PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	-
SCALE:	1/4" = 1'-0"

DRAWING SET:

SHEET NAME:
Basement Plan

PAGE: **A-1.1**





MAIN FLOOR PLAN

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

9' - 1 1/8" MAIN FLOOR

GENERAL NOTES:

MAIN FLOOR AREA
UNIT #101 - 617.67 SQ.FT.
UNIT #102 - 617.67 SQ.FT.
UNIT #201 - 573.79 SQ.FT.
UNIT #202 - 573.79 SQ.FT.

SPRAY FOAM NOTES: CCMC#14140-L
-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS
-FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED
-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8 DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED

DO NOT SCALE DRAWINGS.
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PROJECT:
CLUSTER HOUSING

STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	1/4" = 1'-0"

DRAWING SET:

SHEET NAME:
Main Floor Plan

PAGE: **A-1.2**

UPPER FLOOR PLAN

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

9' - 1 1/8" UPPER FLOOR

GENERAL NOTES:

UPPER FLOOR AREA
UNIT #101 - 648.33 SQ.FT.
UNIT #102 - 648.33 SQ.FT.
UNIT #201 - 648.33 SQ.FT.
UNIT #202 - 648.33 SQ.FT.

SPRAY FOAM NOTES: CCMC#14140-L
-2LBS SPRAY FOAM INSULATION TO BE USED OF RIM JOISTS
-FRAME TOP OF MAIN FLOOR WINDOWS TO MATCH HEIGHT OF EXT DOOR AND TRANSOM UNLESS NOTED
-ALL SIDEYARD CANTILEVERS MUST BE DRYWALLED W/ 5/8 DRYWALL & NON VENTING SOFFIT ON UNDERSIDE, NAILING PATTERN TO BE 6" OC ON PERIMETER AND 8" OC IN THE FIELD-GALVANISED NAILS TO BE USED

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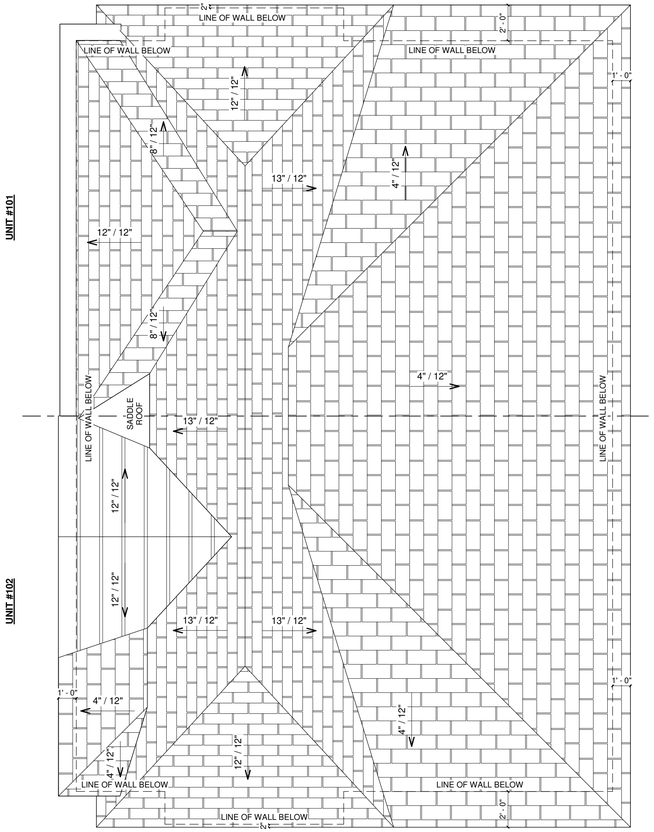
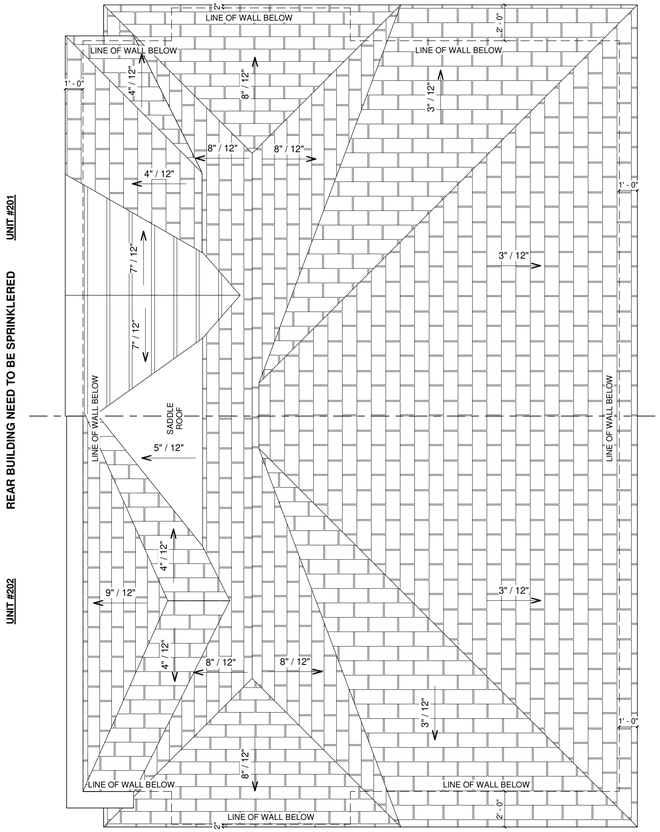
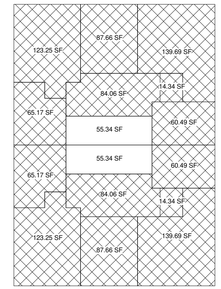
PROJECT:
CLUSTER HOUSING
STATUS:
BP

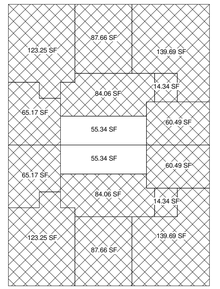
PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	1/4" = 1'-0"

DRAWING SET:
SHEET NAME:
Upper Floor Plan
PAGE: **A-1.3**



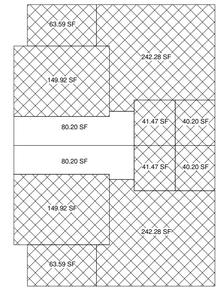


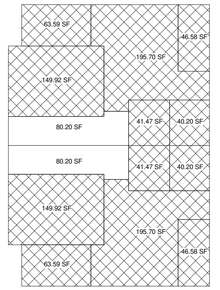




FLOOR AREA - BASEMENT

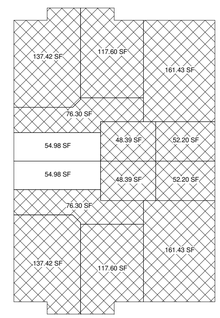
UNIT #101B	=	630.00 SQ. FT.
UNIT #102B	=	630.00 SQ. FT.
UNIT #201B	=	630.00 SQ. FT.
UNIT #202B	=	630.00 SQ. FT.

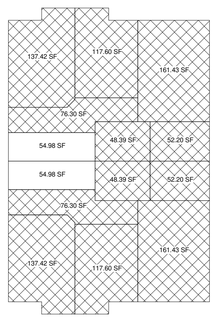




FLOOR AREA - MAIN FLOOR

UNIT #101	=	617.67 SQ. FT.
UNIT #102	=	617.67 SQ. FT.
UNIT #201	=	573.79 SQ. FT.
UNIT #202	=	573.79 SQ. FT.





FLOOR AREA - UPPER FLOOR

UNIT #101	=	648.33 SQ. FT.
UNIT #102	=	648.33 SQ. FT.
UNIT #201	=	648.33 SQ. FT.
UNIT #202	=	648.33 SQ. FT.

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

GENERAL NOTES:

-CONTRACTOR TO CONFIRM HEEL HEIGHT & ROOF DETAILS PRIOR TO ORDERING WITH THE MANUFACTURE, ANY ISSUE MUST BE RESOLVED WITH THE DESIGNER

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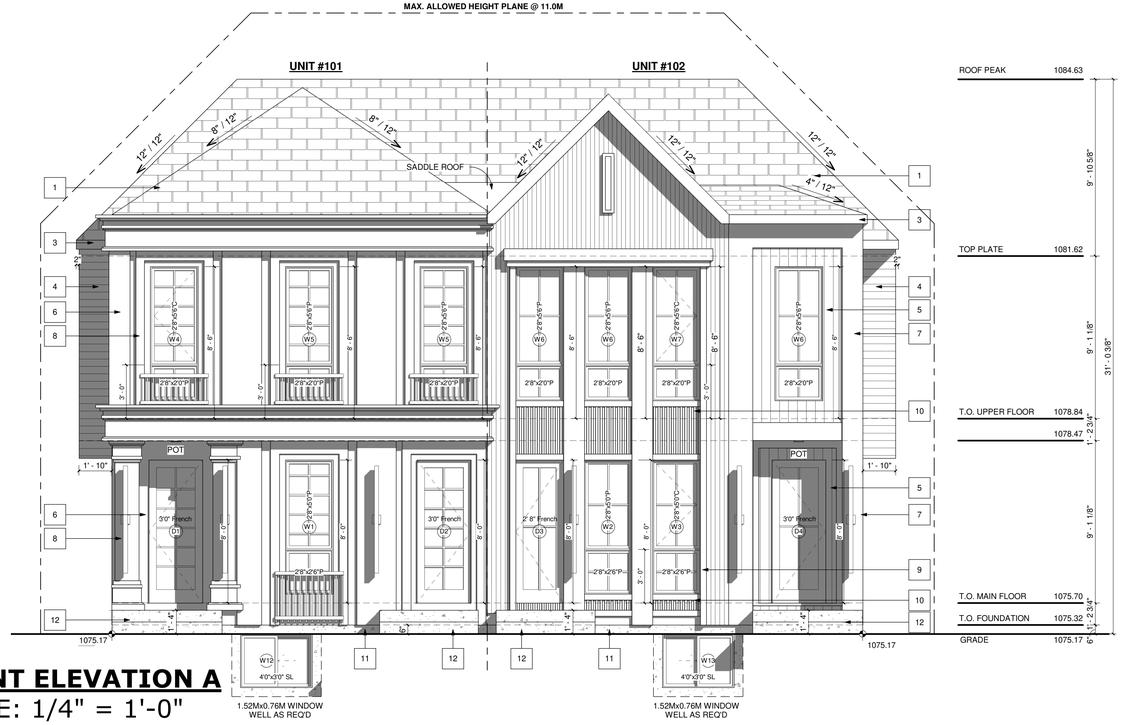
CALGARY, ALBERTA
PROJECT:
CLUSTER HOUSING
STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	-
SCALE:	As indicated

DRAWING SET:

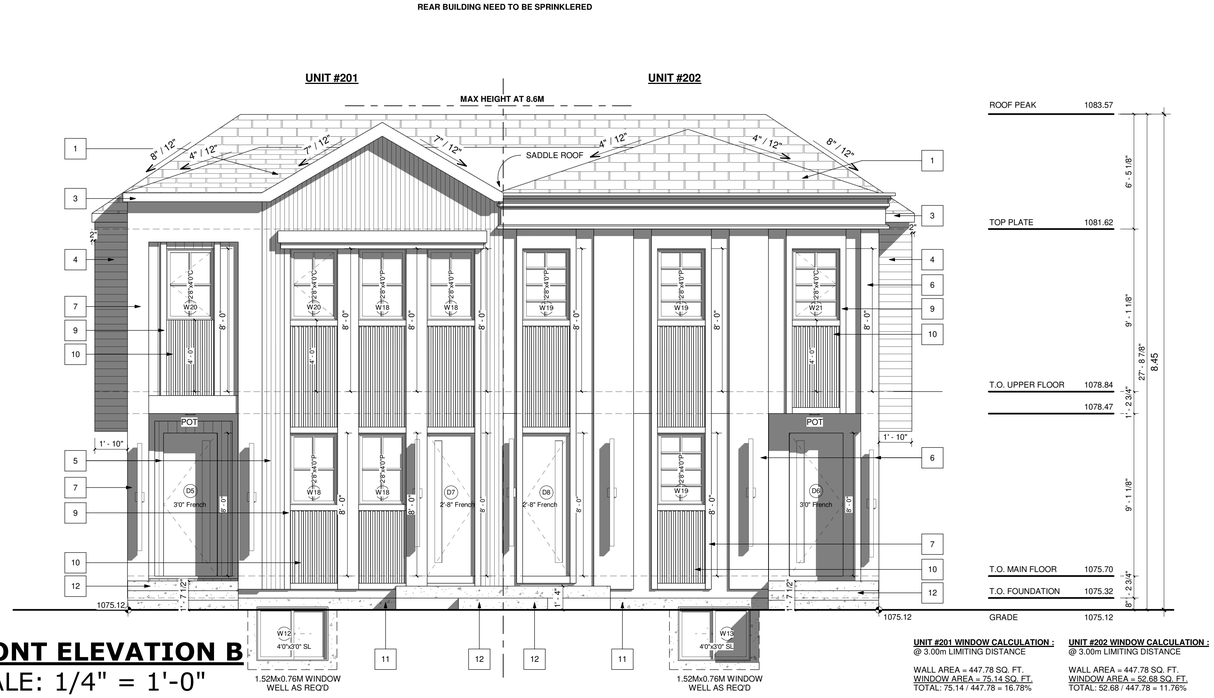
SHEET NAME:
Roof Plan

PAGE: **A-1.5**



FRONT ELEVATION A

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



FRONT ELEVATION B

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

UNIT #201 WINDOW CALCULATION :
@ 3.00m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 75.14 SQ. FT.
TOTAL: 75.14 / 447.78 = 16.78%

UNIT #202 WINDOW CALCULATION :
@ 3.00m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 52.68 SQ. FT.
TOTAL: 52.68 / 447.78 = 11.76%

REAR ELEVATION A

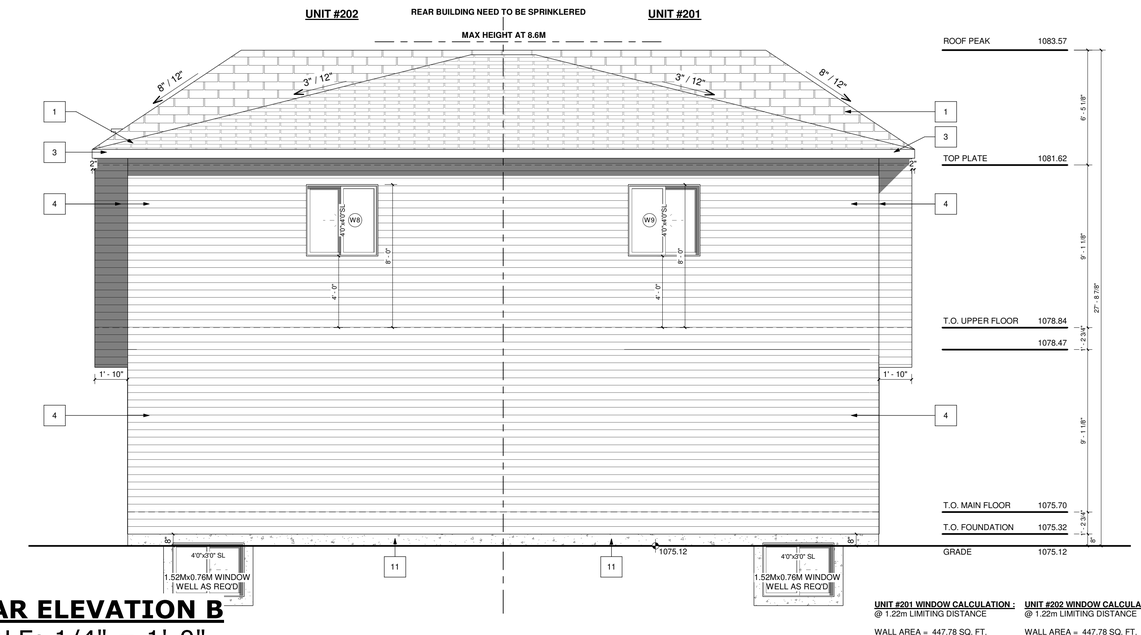
SCALE: 1/4" = 1'-0"

UNIT #101 WINDOW CALCULATION :
@ 3.65m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 20.13 SQ. FT.
TOTAL: 20.13 / 447.78 = 4.49%

UNIT #102 WINDOW CALCULATION :
@ 3.65m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 20.13 SQ. FT.
TOTAL: 20.13 / 447.78 = 4.49%



REAR ELEVATION B

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

UNIT #201 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 16.67 SQ. FT.
TOTAL: 16.67 / 447.78 = 3.72%

UNIT #202 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

WALL AREA = 447.78 SQ. FT.
WINDOW AREA = 16.67 SQ. FT.
TOTAL: 16.67 / 447.78 = 3.72%

GENERAL NOTES:

VENTED SOFFIT NOTES:
-VENTED SOFFIT (FRONT AND BACK)
-VENTED SOFFIT ON SIDES IF ITS CLEAR 1.2m
-NON VENTED SIDES SOFFIT IF WITHIN 1.2m
(SOFFIT ARE PRE-FIN ALUM)

EXTERIOR FINISHES:

1	ASPHALT SHINGLES	7	SMOOTH STUCCO FINISH - DARK GREY
2	METAL ROOF	8	BOARD & BATTEN FINISH - WHITE
3	6" ALUMINUM FASCIA - BLACK	9	BOARD & BATTEN FINISH - DARK GREY
4	HARDIE PANEL - DARK GREY	10	WOOD SLAT AS SPEC'D
5	HARDIE PANEL - DARK GREY (VERTICAL)	11	CONCRETE PARGING
6	SMOOTH STUCCO FINISH - WHITE	12	PRECAST CONCRETE

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CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

STATUS:
BP

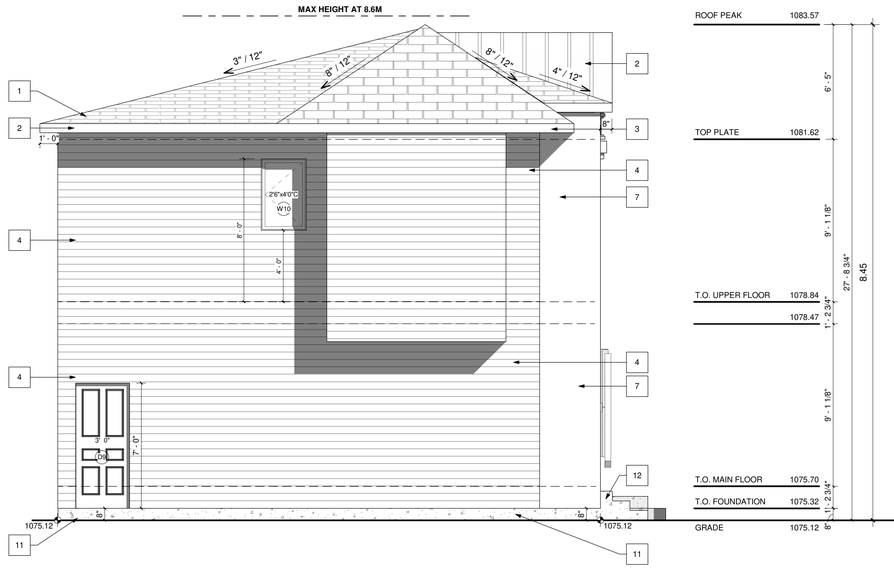
PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	-
SCALE:	1/4" = 1'-0"

DRAWING SET:

SHEET NAME:
Front & Rear Elevation

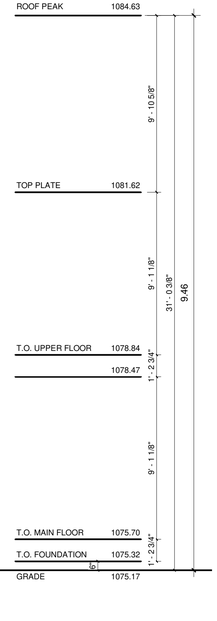
PAGE: **A-2.0**

UNIT #201



1162.94 SF

UNIT #101



UNIT #101 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

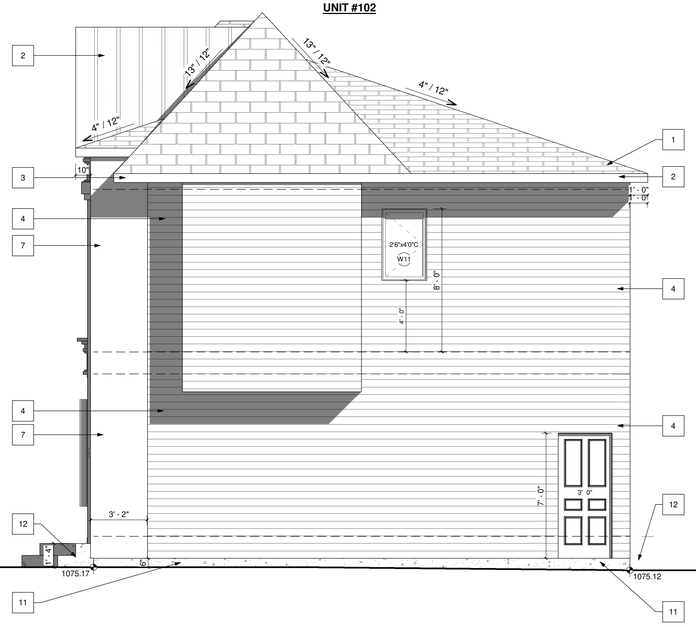
WALL AREA = 618.65 SQ. FT.
WINDOW AREA = 12.04 SQ. FT.
TOTAL: 12.04 / 618.65 = 1.95%

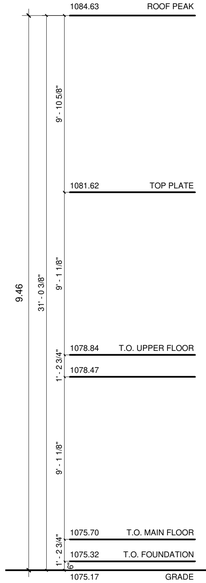
UNIT #201 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

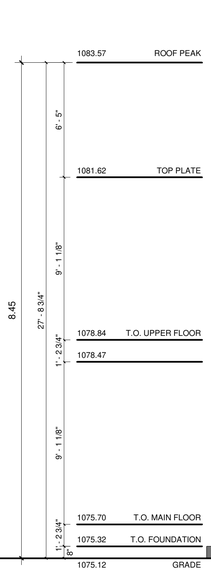
WALL AREA = 639.82 SQ. FT.
WINDOW AREA = 12.04 SQ. FT.
TOTAL: 12.04 / 639.82 = 1.88%

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

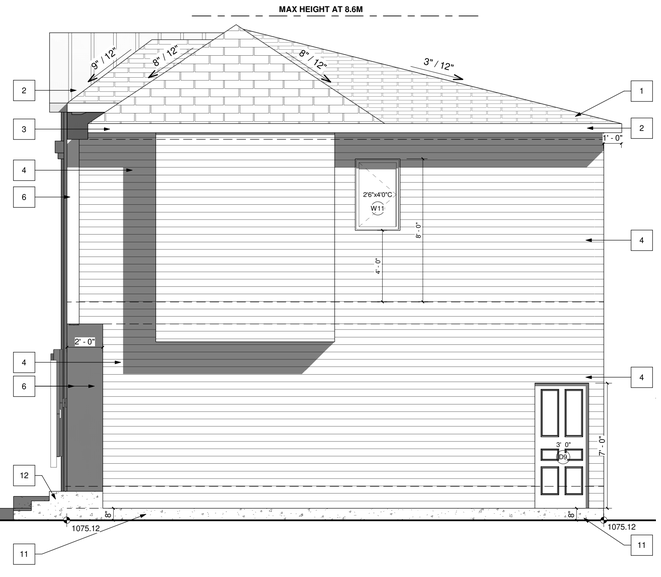
UNIT #102







UNIT #202



UNIT #102 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

WALL AREA = 639.82 SQ. FT.
WINDOW AREA = 12.04 SQ. FT.
TOTAL: 12.04 / 618.65 = 1.95%

UNIT #202 WINDOW CALCULATION :
@ 1.22m LIMITING DISTANCE

WALL AREA = 610.85 SQ. FT.
WINDOW AREA = 12.04 SQ. FT.
TOTAL: 12.04 / 610.85 = 1.97%

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

GENERAL NOTES:

VENTED SOFFIT NOTES:
-VENTED SOFFIT (FRONT AND BACK)
-VENTED SOFFIT ON SIDES IF ITS CLEAR 1.2m
-NON VENTED SIDES SOFFIT IF WITHIN 1.2m
(SOFFIT ARE PRE-FIN ALUM)

EXTERIOR FINISHES:

1	ASPHALT SHINGLES	7	SMOOTH STUCCO FINISH - DARK GREY
2	METAL ROOF	8	BOARD & BATTEN FINISH - WHITE
3	6" ALUMINUM FASCIA - BLACK	9	BOARD & BATTEN FINISH - DARK GREY
4	HARDIE PANEL - DARK GREY	10	WOOD SLAT AS SPEC'D
5	HARDIE PANEL - DARK GREY (VERTICAL)	11	CONCRETE PARGING
6	SMOOTH STUCCO FINISH - WHITE	12	PRECAST CONCRETE

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PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	1/4" = 1'-0"

DRAWING SET:
SHEET NAME:
Left & Right Elevation
PAGE: **A-2.1**

GENERAL NOTES:

1. DAMPROOFING REQUIRED AT FOUNDATION WALLS AS PER NBC 2023 AE.

2. DAMPROOFING REQUIRED BELOW SLAB AS PER NBC 2023 AE.

3. DOUBLE SILL PLATE REQUIRED IF CONCRETE FLOOR FINISHED IS USED.

4. LINTELS TO BE FRAMED TO MEET NATIONAL BUILDING CODE 2023:
   -LINTELS OVER OPENING </= 6'-0" TO BE 2-2X8 #2 OR BETTER SPF.
   -LINTELS OVER OPENINGS > 6'-0" TO BE 2-2X10 #2 OR BETTER SPF
   (UNLESS OTHERWISE NOTED).

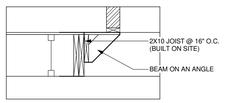
5. 2 LBS SPRAY FOAM APPLIED TO ALL RIM JOISTS, CANTILEVERS AND EXPOSED FLOORS SUCH AS ROOF DECKS - UNLESS NOTED.

6. ALL FLAT ROOF AREAS TO HAVE FLOOR BUILT WITH A MIN. 2% SLOPE SO MEMBRANE CAN SLOPE TO EXTERIOR
   - CONTRACTOR TO CONFIRM SCUPPER LOCATION WITH DESIGNER.

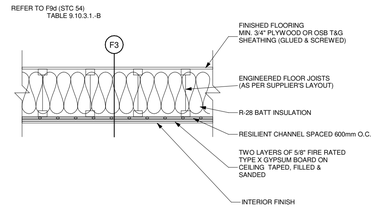
7. FLASHING REQUIRED AT HORIZONTAL JUNCTIONS AND EXTERIOR OPENINGS AS PER NATIONAL BUILDING CODE 2023.

8. "H" CLIPS REQUIRED OR ROOFING SHEATHING AS PER NATIONAL BUILDING CODE 2023.

9. ICF/SNOW STOP/GUARD TO BE INSTALLED AS PER MANUFACTURER ON ALL METAL ROOF SLOPE AS PER NBC 2023.



ANGLE FLOOR DETAIL A
SCALE: NTS



"F3" FLOOR ASSEMBLY DETAILS
SCALE: NTS

ROOF ASSEMBLIES:

(R1) ASPHALT SHINGLES OR EQUIVALENT ROOFING FELT
3/8" PLYWOOD OR OSB SHEATHING C/W H-CLIPS
ENGINEERED ROOF TRUSSES
(AS PER SUPPLIERS LAYOUT)
MIN. R50 LOOSE-FILL OR
FIBERGLASS BATT INSULATION
6 MIL. (15mm) POLY VAPOUR BARRIER (CAN/CGSB)
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED, & SANDED

FOOTING ASSEMBLIES:

(G1) WALL 20"X8" THICK
CONCRETE STRIP FOOTING
3-15M REBAR CONTINUOUS

(G2) WALL 30"X8" THICK
CONCRETE STRIP FOOTING
3-15M REBAR CONTINUOUS

TRUSS ASSEMBLIES:

(T1) 5/8" EXTERIOR GRADE TYPE X GYPSUM
BOARD TAPED
ENGINEERED ROOF TRUSS (AS PER
SUPPLIER'S LAYOUT) PARALLEL
TO PARTY WALL
5/8" EXTERIOR GRADE TYPE X GYPSUM
BOARD TAPED

FLOOR ASSEMBLIES:

(F1) FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G
SHEATHING (GLUED & SCREWED)
ENGINEERED FLOOR JOISTS
(AS PER SUPPLIER'S LAYOUT)
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED & SANDED
INTERIOR FINISH

(F2) 3" CONC. SLAB
MIN. 6 MIL VAPOUR BARRIER MUST
BE BETWEEN POURED
AND BASE
6" COMP. GRAVEL

(F3) REFER TO F8k (STC 46);
TABLE A-9.10.3.1.-B NBC 2023 AE
FINISHED FLOORING
MIN. 3/4" PLYWOOD OR OSB T&G
SHEATHING (GLUED & SCREWED)
ENGINEERED FLOOR JOISTS
(AS PER SUPPLIER'S LAYOUT)
MIN. R-28 BATT INSULATION
RESILIENT CHANNEL SPACED 400mm O.C.
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED & SANDED
INTERIOR FINISH

INTERIOR WALL ASSEMBLIES:

(NOTE: ALL INTERIOR WALLS TO HAVE
PRESSURE TREATED BOTTOM PLATES)

(P1) INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
2X4 STUDS @ 24" O.C.
1/2" STANDARD GYPSUM BOARD
(& 1/2" BLUE BOARD FACING
TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P2) INTERIOR FINISH
1/2" STANDARD GYPSUM BOARD
2X6 STUDS @ 24" O.C.
1/2" STANDARD GYPSUM BOARD
(& 1/2" BLUE BOARD FACING
TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P3) REFER TO W13a (STC 57);
TABLE A-9.10.3.1A; NBC 2023 AE
INTERIOR FINISH
5/8" TYPE X GYPSUM BOARD
TAPED & SANDED
2X6 STUDS @ 24" O.C. (SEE ENG. DETAILS
FOR STUD SIZE AT TALL WALLS)
MIN. R12 BATT INSULATION
1" AIR SPACE
MIN. R12 BATT INSULATION
2X6 STUDS @ 24" O.C. (SEE ENG.DETAILS
FOR STUD SIZE AT TALL WALLS)
5/8" TYPE X GYPSUM BOARD
TAPED & SANDED
(& 1/2" BLUE BOARD FACING
TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

(P4) REFER TO W13a (STC 57);
TABLE A-9.10.3.1A; NBC 2023 AE
INTERIOR FINISH
5/8" TYPE X GYPSUM BOARD
TAPED & SANDED
2X4 STUDS @ 24" O.C. (SEE ENG. DETAILS
FOR STUD SIZE AT TALL WALLS)
MIN. R12 BATT INSULATION
1" AIR SPACE
MIN. R12 BATT INSULATION
2X4 STUDS @ 24" O.C. (SEE ENG.DETAILS
FOR STUD SIZE AT TALL WALLS)
5/8" TYPE X GYPSUM BOARD
TAPED & SANDED
(& 1/2" BLUE BOARD FACING
TUB/SHOWER AS REQUIRED)
INTERIOR FINISH

EXTERIOR WALL ASSEMBLIES:

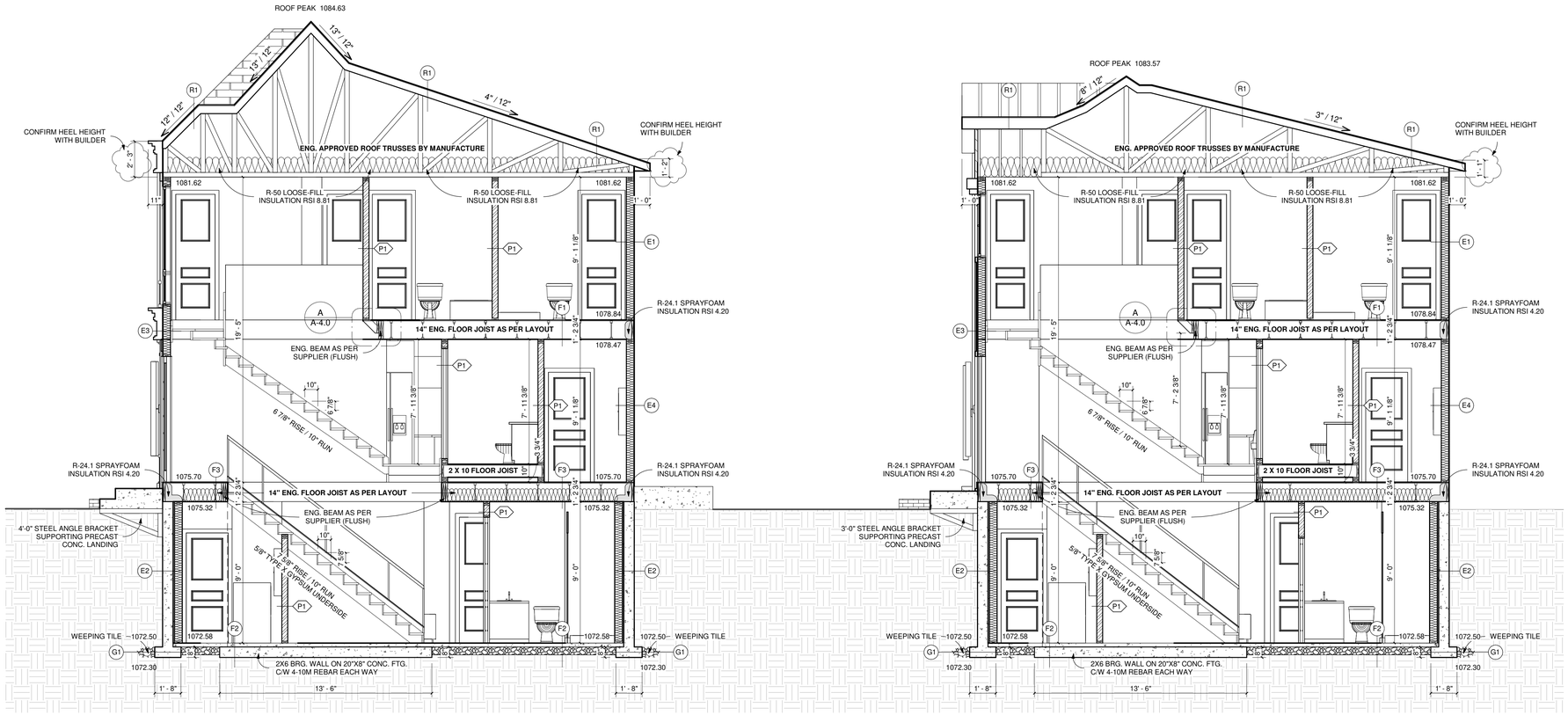
(NOTE: FIRE RATED EXTERIOR SHEATHING
PRODUCT TO BE INSTALLED ON ALL EXTERIOR
WALLS DURING CONSTRUCTION AS PER NBC)

(E1) HARDIE OR EQUIVALENT (AS PER ELEV.
DRAWING) AS PER
MANUFACTURER'S SPECS.
2-PLY BUILDING PAPER
3/8" PLY OR OSB SHEATHING (FIRE
RESISTANCE OSB AS REQ'D
FOR AFC-5.6.1.2)
2X6 WOOD STUDS @ 24" O.C. (UNLESS
OTHERWISE NOTED)
R-22 BATT INSULATION MIN.
6 MIL. (0.15mm) POLY VAPOUR BARRIER
(WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED, &
SANDED FOR PAINTING (1/2"
BLUE BOARD FACING TUB/
SHOWER AS REQUIRED)
INTERIOR FINISH

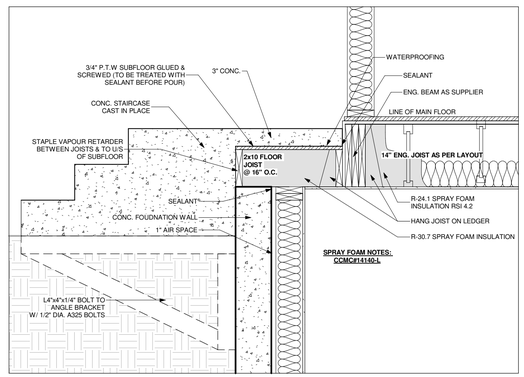
(E2) SMOOTH PARGING ABOVE GRADE
WATER PROOFING/DAMP PROOFING
BELOW GRADE. INCLUDING
TOP OF FOOTING BOTH SIDES
OF WALL
8" SITECAST CONC. ON DAMP PROOFING
CAPILLARY BREAK IN FOOTING
KEYWAY
AIR SPACE
2X6 STUDS @ 24" O.C.
R-20 FIBERGLASS BATT INSULATION
6 MIL. (0.15mm) POLY VAPOUR BARRIER
(WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED, &
SANDED FOR PAINTING (1/2"
BLUE BOARD FACING TUB/
SHOWER AS REQUIRED)
INTERIOR FINISH

(E3) TALL WALL CONSTRUCTION
SEE TALL WALL DETAIL

(E4) HARDIE OR EQUIVALENT (AS PER ELEV.
DRAWING) AS PER
MANUFACTURER'S SPECS.
2-PLY BUILDING PAPER
3/8" PLY OR OSB SHEATHING (FIRE
RESISTANCE OSB AS REQ'D
FOR AFC-5.6.1.2)
2X6 WOOD STUDS @ 16" O.C. (UNLESS
OTHERWISE NOTED)
R-24 BATT INSULATION MIN.
6 MIL. (0.15mm) POLY VAPOUR BARRIER
(WARM SIDE OF STUD)
1/2" CONTROLLED DENSITY GYPSUM
BOARD TAPED, FILLED, &
SANDED FOR PAINTING (1/2"
BLUE BOARD FACING TUB/
SHOWER AS REQUIRED)
INTERIOR FINISH



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



SECTION 6
SCALE: NTS

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DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	As indicated

DRAWING SET:

SHEET NAME:
Section 1

PAGE: **A-4.0**

GENERAL NOTES:

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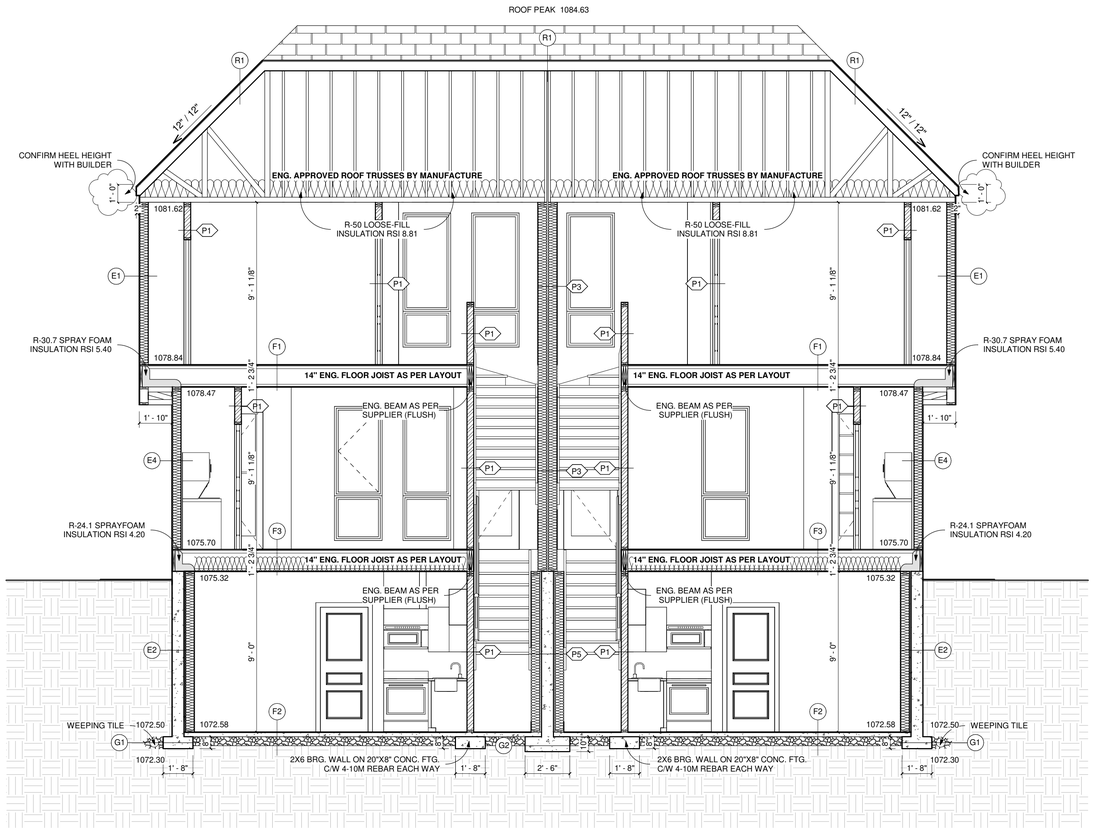
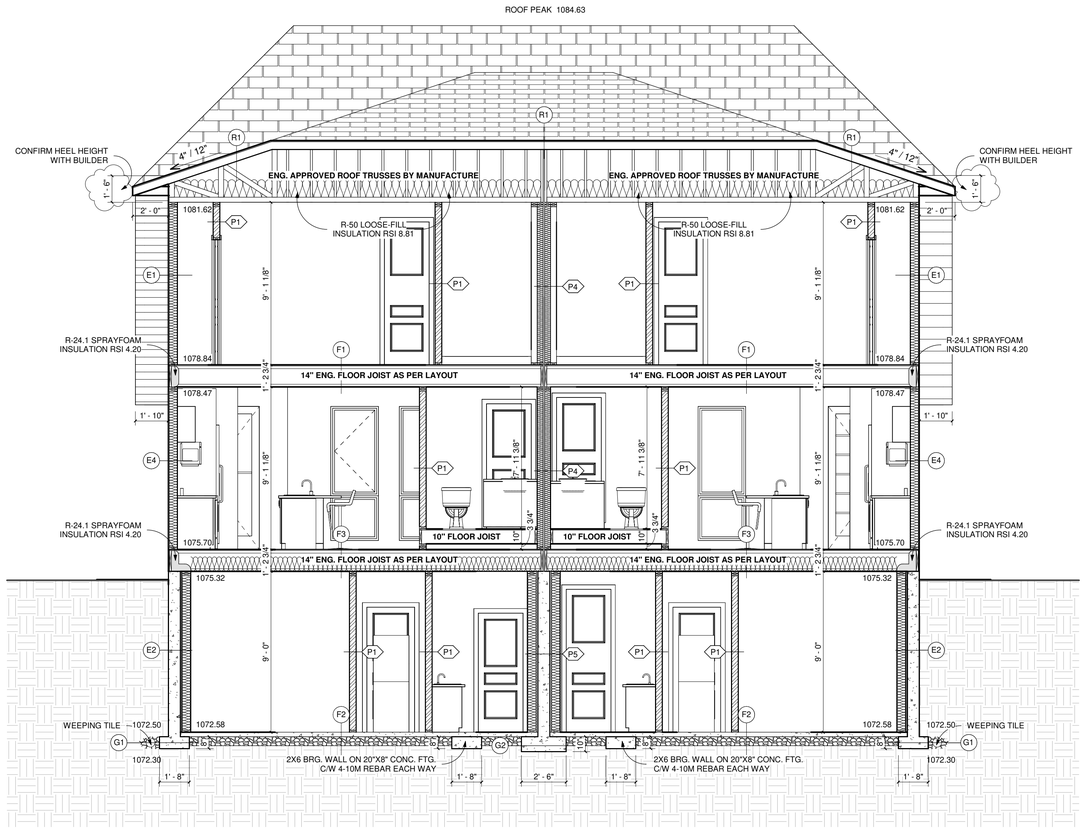


SECTION 2
SCALE: 1/4" = 1'-0"



SECTION 3
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SHEET NAME:
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PAGE: **A-4.1**

GENERAL NOTES:

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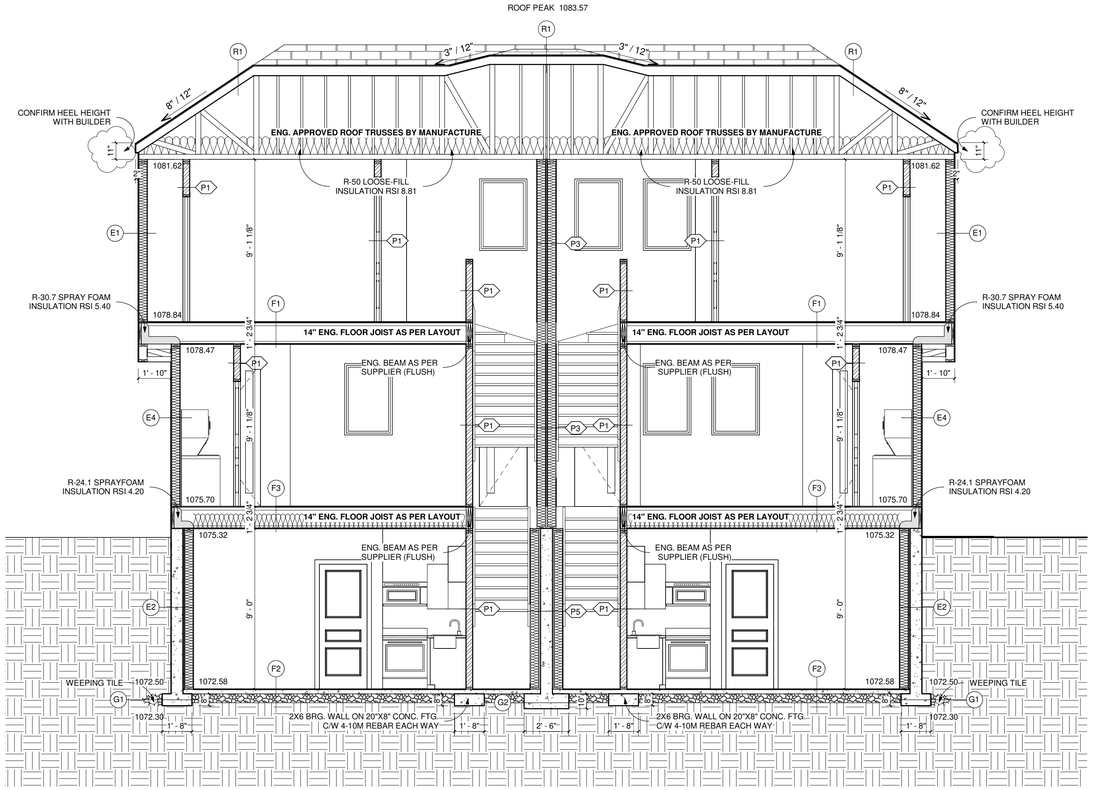

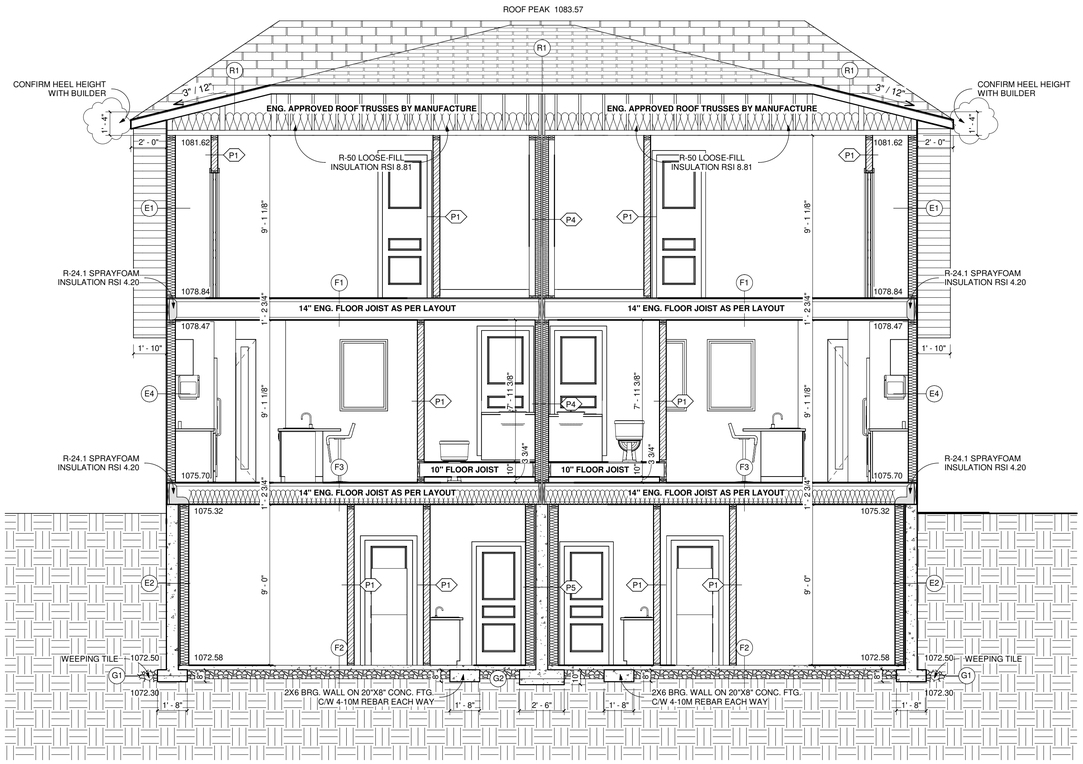

SECTION 4
SCALE: 1/4" = 1'-0"

SECTION 5
SCALE: 1/4" = 1'-0"

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Section 3

PAGE: **A-4.2**

AS PER SECTION 9.36.2.10 - NOTES PERTAINING TO LEAKAGE PATHS IN PROBLEMATIC AREAS

FOUNDATION TO SILL PLATE AND RIM JOISTS
ALL JOINTS AT THE TRANSITION BETWEEN THE FOUNDATION WALL AND THEABOVE GRADE WALL MUST BE AIR-TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL.

INTERIOR WAL INTERFACE
INTERIOR WALLS THAT MEET EXTERIOR WALLS OR CEILINGS WITH AN INTERIOR PLANE OF AIR TIGHTNESS MUST BE MADE AIRTIGHT BY EITHER SEALING ALL JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL, OR MAINTAINING THE CONTINUITY OF THE AIR BARRIER SYSTEM THROUGH THE INTERIOR WALL.

RIM JOIST
ALL JOINTS AT THE THE RIM JOIST ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL.

CANTILEVERED FLOOR
CANTILEVERED FLOORS AND FLOORS OVER UNHEATED SPACES/EXTERIOR SPACE MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND/OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL.

WINDOW HEAD
THE INTERFACE BETWEEN WINDOW HEAD/JAMB AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUCTIONS BETWEEN THE AIR BARRIER IN THE WALL AND WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS.

WINDOW SILL
THE INTERFACE BETWEEN WINDOW SILL AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER METERIAL IN THE WALL AND THE WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS.

MECHANICAL FLUES AND CHIMNEY
STEEL-LINED CHIMNEYS THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY BLOCKING THE VOID BETWEEN REQUIRED CLEARANCES FOR METAL CHIMNEYS AND SURROUNDING CONSTRUCTION WITH SHEET METAL AND SEALANT CAPABLE OF WITHSTANDING HIGH TEMPERATURES

PLUMBING STACKS
PLUMBING VENT STACK PIPES THAT PENETRATES THE BUILDING ENVELOPE MUST BE MADE AIRTIGHTBY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT STACK PIPE WITH A COMPATIBLE MATERIAL OR SHEATHING TAPE, OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE OF AIRTIGHNESS AND SEALING IT TO THE TOP PLATE

SKYLIGHTS
THE INTERFACE BETWEEN THE SKYLIGHT AND WALL ASSEMBLY MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE AIR BARRIER MATERIAL IN THE WALL AND THE SKYLIGHT.

WALL TO CEILING
ALL JOINTS AT THE TRANSITION BETWEEN THE ABOVE GRADE WALL AND CEILING MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUCTIONS BETWEEN THE STRUCTURAL COMPONETS AND/OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL.

WALL VENTED DUCTS
DUCT PENETRATIONS THROUGH THE BUILDING ENVELOPE MUST HAVE AN AIRTIGHT SEAL.

ELECTRICAL PENETRATION IN WALLS
ELECTRICAL PENETRATIONS IN WALLS, INCLUDING ELECTRICAL OUTLETS, WIRING, SWITCHES, AND RECESSED FIXTURES THROUGH THE PLANE OF AIRTIGHTNESS MUST BE AIRTIGHT. OPTIONS INCLUDE USING A COMPONENT THAT IS DESIGNED TO BE AIRTIGHT AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL, OR BY COVERING THE COMPONET WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL.

SPECIFIC REQUIREMENTS:

-EFFECTIVE INSULATION OF CEILING, WALLS, AND FLOORS MEET THE REQUIREMENTS OF TABLE 9.36.2.6.A AND TABLE 9.36.2.6.B FOR THE CORRECT CLIMATE ZONE

-THE THERMAL CHARACTERISTICS OF WINDOWS, DOOR AND SKYLIGHTS MEET THE REQUIREMENTS OF TABLE 9.36.2.7.A,B AND C FOR THE CORRECT CLIMATE ZONE

-EFFECTIVE INSULATION OF FOUNDATIONS MEET THE REQUIREMENTS OF TABLE 9.36.2.8.A OR B FOR THE CORRECT CLIMATE ZONE

-DUCTS LOCATED OUTSIDE THE THERMAL ENCLOSURE ARE SEALED AND INSULATED TO THE EXTERIOR WALL INSULATION REQUIREMENTS

-DAMPERS ARE INSTALLED AT AIR INLETS AND EXHAUSTS WHERE REQUIRED

-PIPING FOR HEATING OR COOLING SYSTEM IS LOCATED WITHIN THE THERMAL ENCLOSURE OR ARE FULLY INSULATED

-HVAC EQUIPMENT IS LOCATED WITHIN THERMAL ENCLOSURE OR DESIGNATED TO BE INSTALLED OUTSIDE OF THERMAL ENCLOSURE

-TEMPERATURE CONTROLS ARE INSTALLED ON HEATING AND COOLING EQUIPMENT

-INDOOR POOLS ARE COVERED OR HAVE AN HRV/DEHUMIDIFIER

-HVAC AND SWH EQUIPMENT MEET MINIMUM PERFORMANCE REQUIREMENTS DETERMINED IN TABLES 9.36.3.10 AND 9.36.4.2

-SERVICE WATER HEATING PIPES ARE INSULATED AT THE INLET AND OUTLET OF STORAGE TANKS

-SERVICE WATER HEATERS HAVE TEMPERATURE CONTROLS

-THE AIR BARRIER DETAILS, AND LOCATIONS HAVE BEEN IDENTIFIED

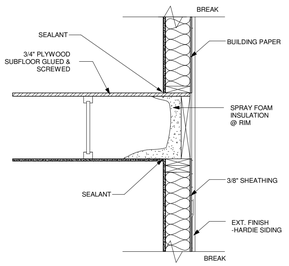
-GAS FIRED FURNACE - LESS THAN 220 000 BTU/Hr (66kW) - ANNUAL FUEL USE EFFICIENCY (AFUE) MUST BE GREATER THAN OR EQUAL TO 92%
TEMPERATURE CONTROLS AS PER SECTION 9.36.3.6

-THE TEMPERATURE CONTROLS ARE GENERALLY REQUIRED FOR HEATING AND COOLING EQUIPMENT. THE ACCURACY OF THE CONTROL MUST BE BETTER THAN PLUS OR MINUS 0.5 DEGREES CELCIUS.

RIM JOIST SPACING (HARDIE SIDING)

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97 14" I-JOIST @ 19.2" O/C W/ R-20.8 SPRAY FOAM INSULATION IN CAVITY **A-9.36.2.4.(1)**		MM	RSI
ASSEMBLY DESCRIPTION			
1. EXTERIOR AIR FILM		-	0.03
2. HARDIE SIDING		12.7	0.038
3. 2 PLY BUILDING PAPER		-	-
4. 3/8" PLYWOOD SHEATHING		9.5	0.083
5. 1 1/2" LUMBER RIM BOARD		38.1	0.324
6. 4" FRAMING CAVITY @ 19.2" O.C. (101.6mm x 0.0085 RSI/mm)	RSI_F= 0.86 % AREA OF FRAMING = 7.5%		
7. R-20.8 SPRAY FOAM INSULATION (101.6mm THICK, 0.036 RSI/mm)	RSI_C= 3.66 % AREA OF CAVITY = 92.5%		
8. 3/4" PLYWOOD SUBFLOOR		19.05	0.166
9. INTERIOR AIR FILM		-	0.12
$RSI_{parallel} = \frac{100}{(7.5/0.86) + (92.5/3.66)}$			2.94
TOTAL EFFECTIVE INSULATION VALUE			RSI 3.70

ABOVE GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.97
CCMC #14140-L
NOTE: A-9.36.2.4.(1)



RIM JOIST DETAIL
SCALE: NTS

"E4" ABOVE GROUND WALL DETAIL & CLIMATE ZONE 7A ENERGY WALL ASSEMBLY DETAIL

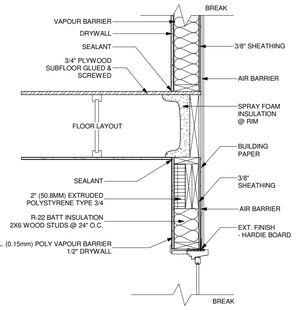
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97 2 X 6 STUDS @ 16" O/C		MM	RSI
ASSEMBLY DESCRIPTION			
1. EXTERIOR AIR FILM		-	0.03
2. HARDIE SIDING		12.7	0.038
3. 2 PLY BUILDING PAPER		-	0.011
4. 3/8" PLYWOOD		9.5	0.083
5. 2X6 STUDS @ 16" O.C. (140mm x 0.0085 RSI/mm)	RSI_F = 1.19 % AREA OF FRAMING = 20%		
6. R-24 FIBREGLASS BATT INSULATION (140mm THICK; RSI 3.87)	RSI_C = 3.87 % AREA OF CAVITY = 80%		
7. 6 MIL. (0.15mm) POLY VAPOUR BARRIER		-	-
8. 1/2" GYPSUM BOARD		12.7	0.08
9. INTERIOR AIR FILM		-	0.12
$RSI_{parallel} = \frac{100}{(20/1.19) + (80/3.87)}$			2.67
TOTAL EFFECTIVE INSULATION VALUE			RSI 3.03

ABOVE GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.97
CCMC #14140-L

FENESTRATION (WINDOWS) AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7.A (NATIONAL BUILDING CODE AE 2020) FOR THE APPLICABLE HEATING DEGREE-DAY CATEGORY. CLIMATE ZONE 7A MAXIMUM U-VALUE TO BE 1.60	
DOOR TO GARAGE	USI 1.6
ACCESS HATCH	RSI 2.6
FRONT DOOR	USI 1.6
GLASS BLOCK	USI 2.9
O.H. GARAGE DOOR	RSI 1.1

THE THERMAL BRIDGING EFFECT OF CLOSELY SPACED REPETITIVE STRUCTURAL MEMBERS LIKE STUDS & JOISTS. AND OF ANCHILLARY MEMBERS LIKE LINTELS, SILLS AND PLATES MUST BE ACCOUNTED FOR WHEN CALCULATING THE THERMAL RESISTANCE OF A BUILDING ENVELOPE ASSEMBLIES

FENESTRATION (WINDOWS AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7 A FOR CLIMATE ZONE 7A THE U VALUE MUST BE 1.60 , WITH A MIN ENERGY RATING OF 25



"E4" ABOVE GROUND WALL DETAIL
SCALE: NTS

"E1" ABOVE GROUND WALL DETAIL & CLIMATE ZONE 7A ENERGY WALL ASSEMBLY DETAIL

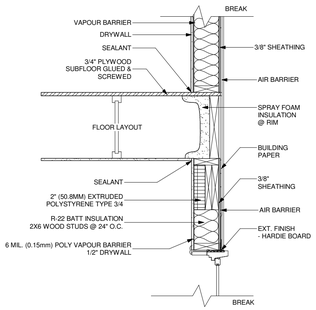
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97 2 X 6 STUDS @ 24" O/C		MM	RSI
ASSEMBLY DESCRIPTION			
1. EXTERIOR AIR FILM		-	0.03
2. HARDIE SIDING		12.7	0.038
3. 2 PLY BUILDING PAPER		-	0.011
4. 3/8" PLYWOOD		9.5	0.083
5. 2X6 STUDS @ 24" O.C. (140mm x 0.0085 RSI/mm)	RSI_F = 1.19 % AREA OF FRAMING = 20%		
6. R-22 FIBREGLASS BATT INSULATION (140mm THICK; RSI 3.87)	RSI_C = 3.87 % AREA OF CAVITY = 80%		
7. 6 MIL. (0.15mm) POLY VAPOUR BARRIER		-	-
8. 1/2" GYPSUM BOARD		12.7	0.08
9. INTERIOR AIR FILM		-	0.12
$RSI_{parallel} = \frac{100}{(20/1.19) + (80/3.87)}$			2.67
TOTAL EFFECTIVE INSULATION VALUE			RSI 3.03

ABOVE GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.97
CCMC #14140-L

FENESTRATION (WINDOWS) AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7 A (NBC(AE)) FOR THE APPLICABLE HEATING DEGREE-DAY CATEGORY. CLIMATE ZONE 7A MAXIMUM U-VALUE TO BE 1.60	
DOOR TO GARAGE	USI 1.6
ACCESS HATCH	RSI 2.6
FRONT DOOR	USI 1.6
GLASS BLOCK	USI 2.9
O.H. GARAGE DOOR	RSI 1.1

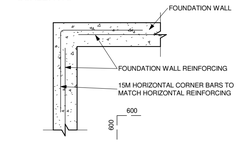
THE THERMAL BRIDGING EFFECT OF CLOSELY SPACED REPETITIVE STRUCTURAL MEMBERS LIKE STUDS & JOISTS. AND OF ANCHILLARY MEMBERS LIKE LINTELS, SILLS AND PLATES MUST BE ACCOUNTED FOR WHEN CALCULATING THE THERMAL RESISTANCE OF A BUILDING ENVELOPE ASSEMBLIES

FENESTRATION (WINDOWS AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7 A FOR CLIMATE ZONE 7A THE U VALUE MUST BE 1.60 , WITH A MIN ENERGY RATING OF 25

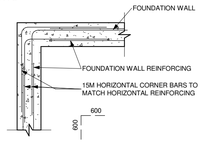


"E1" ABOVE GROUND WALL DETAIL (HARDIE)
SCALE: NTS

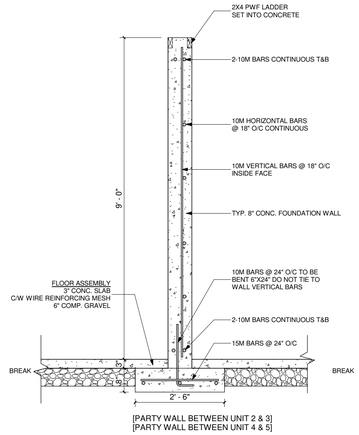
TYPICAL CORNER BAR DETAIL
(SINGLE LAYER REINFORCING)
SCALE: NTS

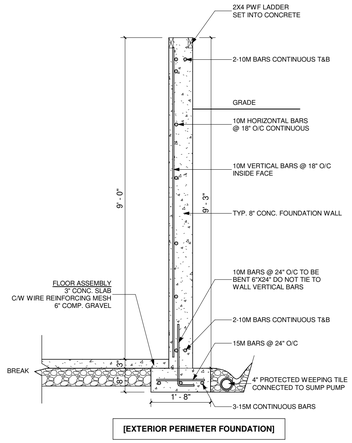


TYPICAL CORNER BAR DETAIL
(DOUBLE LAYER REINFORCING)
SCALE: NTS

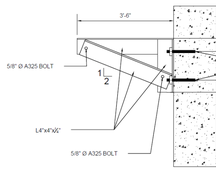


NOTE: FOUNDATION WALL WITH STANDARD REINFORCING IS ACCEPTABLE BELOW TALL WALL





FOUNDATION DETAIL
SCALE: NTS



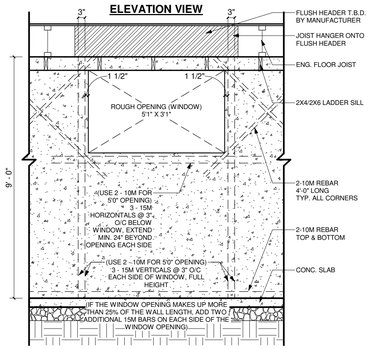
ANGLE BRACKET DETAIL D
SCALE: NTS

FOUNDATION DETAIL & CLIMATE ZONE 7A ENERGY WALL ASSEMBLY DETAIL

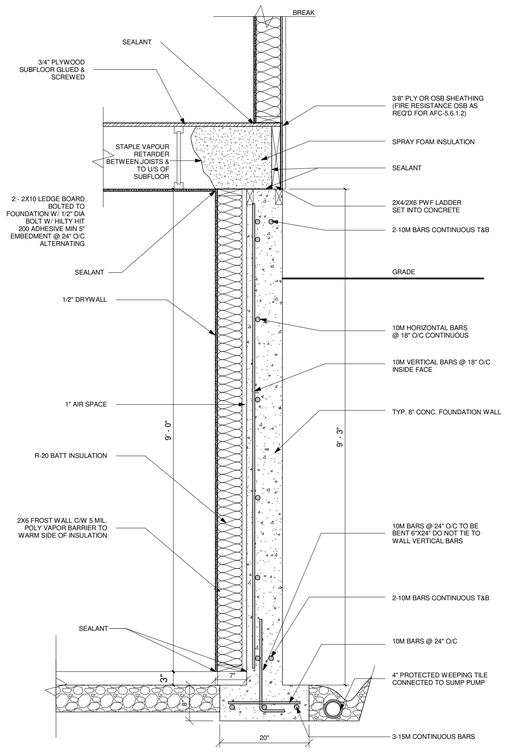
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.98 2 X 6 STUDS @ 24" O/C		MM	RSI
ASSEMBLY DESCRIPTION			
1. EXT. WATER/DAMPPROOFING		-	-
2. CONCRETE WALL		203	0.08
3. AIR CAVITY IN FRAMING		25.4	0.18
5. 2X6 STUDS @ 24" O.C. (140mm x 0.0085 RSI/mm)	RSI_F = 1.19 % AREA OF FRAMING = 13%		
6. R-20 FIBREGLASS BATT INSULATION (140mm THICK; RSI 3.52)	RSI_C = 3.52 % AREA OF CAVITY = 87%		
7. 6 MIL. (0.15mm) POLY VAPOUR BARRIER		-	-
8. 1/2" GYPSUM BOARD		12.7	0.08
9. INTERIOR AIR FILM		-	0.12
$RSI_{parallel} = \frac{100}{(13/1.19) + (87/3.52)}$			2.80
TOTAL EFFECTIVE INSULATION VALUE			RSI 3.26

ABOVE GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.98
CCMC #14140-L

"E2" FOUNDATION DETAIL
SCALE: NTS



FOUNDATION WINDOW REINFORCEMENT DETAIL
SCALE: NTS



JTA DESIGN + PERMITS

GENERAL NOTES:

PROFESSIONAL ENGINEER ALBERTA
FOUNDATION ONLY
MAY, 13 2025

MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

PROJECT NUMBER:
243-24

STATUS:
BP

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CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING CONSTRUCTION.
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NO.	DATE(D/M/Y)	DETAIL	BY
01.	12/07/24	DP PLANS	S.W.
02.	27/11/24	BP PLANS	S.W.
03.	--	--	--
04.	--	--	--
05.	--	--	--
06.	--	--	--

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ALL WORK MUST COMPLY WITH THE MOST RECENT EDITION OF THE NATIONAL BUILDING CODE AND ANY OTHER GOVERNING AUTHORITIES.

ALL FRAMING , ELECTRICAL ROUGH-IN AND PLUMBING ROUGH-IN NEEDS TO BE CONFIRMED BY TRADES/CONTRACTOR AND HOME OWNER. ANY ISSUE NEEDS TO BE NOTIFIED TO THE DESIGNER TO BE RESOLVED BEFORE PROCEEDING

DRAWING SET:

SHEET NAME:
Above Ground Wall Detail

DESIGN BY: JT

DRAWN BY: JT

LAST REVISION BY:

PRINTED: 2025-07-09 10:39:58 AM

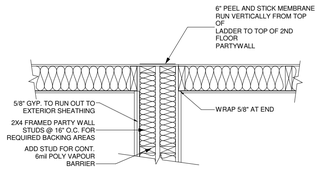
SCALE: As indicated

PAGE: **A-5.0**

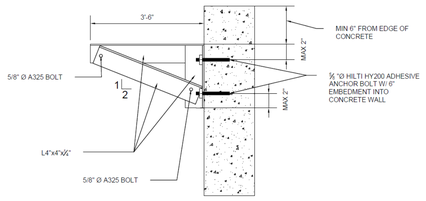
"E5" PARTY WALL MEETING W/ OUTSIDE WALL ENERGY ASSEMBY DETAIL

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97 2 X 4 STUDS @ 16" O/C				MM	RSI
ASSEMBLY DESCRIPTION					
1.	EXTERIOR AIR FILM			-	0.12
2.	1/2" GYPSUM WALL BOARD			12.7	0.08
3.	5/8" TYPE X GYPSUM WALL BOARD			-	0.10
*4.	2X4 STUDS @ 16 O.C. (89mm X 0.0085 RSI/mm)	RSI_F =0.7565	% AREA OF FRAMING=23%		
5.	R-12 FIBERGLASS BATT INSULATION (89/92mm THICK; RSI 2.11)	RSI_C =2.11	% AREA OF CAVITY=77%		
6.	1" (25.4mm) AIR SPACE			25.4	0.18
**7.	2X6 STUDS @ 16 O.C. (140mm X 0.0085 RSI/mm)	RSI_F =1.19	% AREA OF FRAMING=23%		
8.	R-22 FIBERGLASS BATT INSULATION (140mm THICK; RSI 3.87)	RSI_C =3.87	% AREA OF CAVITY=77%		
9.	6 MIL. (0.15mm) POLY VAPOUR BARRIER			-	-
10.	5/8" TYPE X GYPSUM WALL BOARD			-	0.10
11.	1/2" GYPSUM WALL BOARD			12.7	0.08
12.	INTERIOR AIR FILM			-	0.12
	$*RSI_{parallel} = \frac{100}{(23/0.7565) + (77/2.11)}$				1.49
	$**RSI_{parallel} = \frac{100}{(23/1.19) + (77/3.87)}$				2.55
TOTAL EFFECTIVE INSULATION VALUE					RSI 4.82

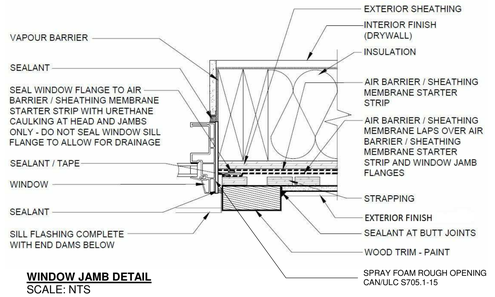
PARTY WALL ASSEMBLY **WITHOUT** A HEAT RECOVERY - ZONE 7A MIN RSI 2.97



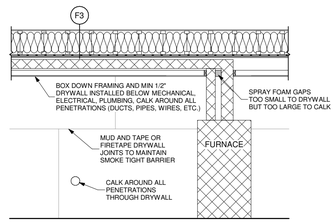
"E5" PARTY WALL DETAIL
SCALE: NTS



ANGLE BRACKET DETAIL E
SCALE: NTS

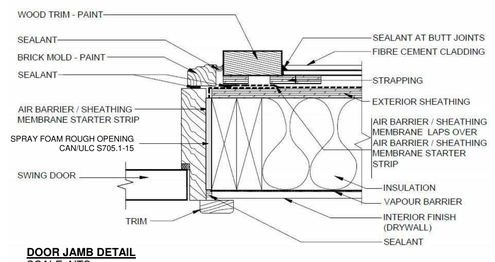


WINDOW JAMB DETAIL
SCALE: NTS

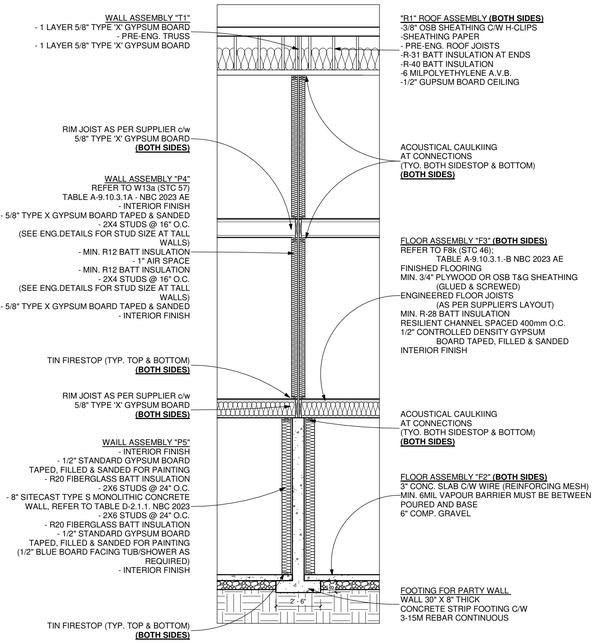


NOTE: CEILING & WALLS REQUIRED TO BE MIN 1/2" DRYWALL
SMOKE-TIGHT BARRIERS SHALL CONFORM TO 9.10.9. OF NBC 2023 (AE)

SMOKE SEAL DETAIL
SCALE: NTS



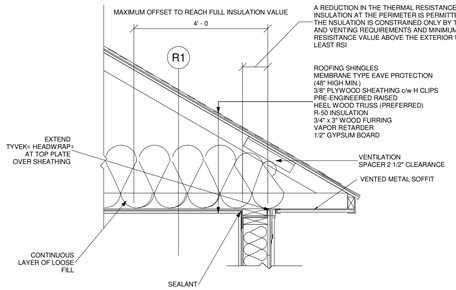
DOOR JAMB DETAIL
SCALE: NTS



"R1" CEILING BELOW ATTIC DETAIL & CLIMATE ZONE 7A ENERGY ROOF ASSEMBLY DETAIL

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 8.67 CALCULATION FOR COMMON TRUSS & SCISSOR TRUSS 2 X 6 STUDS @ 24" O/C		MM	RSI
ASSEMBLY DESCRIPTION			
1.	EXTERIOR AIR FILM	-	0.03
2.	ROOFING (ASPHALT SHINGLES)	-	0.08
3.	3/8" PLYWOOD	9.5	0.083
4.	AIR FILM	-	-
5.	R-50 LOOSE-FILL INSULATION / F.G. WHERE REQ'D. (469.9mm X 0.01875 RSI/mm)	469.9	8.81
6.	6 MIL. (0.15mm) POLY VAPOUR BARRIER	-	-
7.	1/2" GYPSUM BOARD	12.7	0.08
8.	INTERIOR AIR FILM	-	0.11
TOTAL EFFECTIVE INSULATION VALUE			RSI 9.19

CEILING BELOW ATTIC ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 8.67



"R1" ROOF DETAIL
SCALE: NTS

JTA DESIGN + PERMITS

GENERAL NOTES:

PROFESSIONAL ENGINEER ALBERTA
SPRAY FOAM ONLY
MAY, 13 2025

MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

PROJECT NUMBER:
243-24

STATUS:
BP

DO NOT SCALE DRAWINGS.
DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER APPLICABLE CONSULTANT DRAWINGS
CONTRACTOR IS TO CONFIRM AND COORDINATE ALL DETAILS WITH SITE CONDITIONS AND OTHER CONSULTANT DRAWINGS PRIOR TO STARTING CONSTRUCTION.
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NO.	DATE(D/M/Y)	DETAIL	BY
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02.	27/11/24	BP PLANS	S.W.
03.	--	--	--
04.	--	--	--
05.	--	--	--
06.	--	--	--

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DRAWING SET:

SHEET NAME:
Firewall Details

DESIGN BY: JT

DRAWN BY: JT

LAST REVISION BY:

PRINTED: 2025-07-09 10:39:59 AM

SCALE: As indicated

PAGE: A-5.1

GENYK POLYURETHANE

BOREAL NATURE ELITE TECHNICAL DATA SHEET

BOREAL NATURE ELITE

Boreal Nature Elite is a closed-cell medium density spray polyurethane foam insulation formulated with environmentally responsible HFO blowing agents. The product is manufactured without ozone depletion substances (Zero ODS) and contains negligible amount of Global Warming Potential (GWP) substances.

Boreal Nature Elite has been tested by an independent laboratory and evaluated by CCMC. **The finished product surpasses the CAN/ULC S705.1-15 material standard requirements.**

PHYSICAL PROPERTIES – CCMC # 14140-L			
PHYSICAL PROPERTIES	**STANDARD**	**RESULT**	
Core Density	ASTM D1622	2.0 lb/ft³	32 kg/m³
Compressive Strength	ASTM D1621	33.1 psi	228 kPa
Tensile Strength	ASTM D1623	29.7 psi	205 kPa
Water Vapour Permeance (50mm thickness)	ASTM E96 (Procedure A)	34 ng (Pa.s.m²)	
Surface Burning (flame spread index)	CAN/ULC S127-14	285	
Fungi Resistance	ASTM C1338	No growth	
Long Term Thermal Resistance Thickness 25 mm Thickness 50 mm Thickness 75 mm Thickness 100 mm	CAN/ULC- S770-09	0.93 RSI 1.96 RSI 2.93 RSI 4.12 RSI	
Air Permeance	ASTM E2178	0.001 L/(s.m²)	
Recommended Time to Occupancy	CAN/ULC S774	25 hours	
Open Cell Content	ASTM D6226 (Procedure 2)	2.8 %	
Water Absorption (volume)	ASTM D2842 (Procedure A)	1.6 %	
Dimensional Stability	ASTM D2126 (28 days) -20ºC 80ºC 70ºC, 97% RH (±3%)	-1 % +2 % +13 %	

PHYSICAL PROPERTIES – Additional testing		
Radon mitigation system	CCMC Masterformat 07 26 23.0	CCMC #14445-R
Air Barrier System	CCMC Masterformat 07 27 09.01	CCMC Report in process
Long Term Thermal Resistance (50mm)	CAN/ULC- S770-03	2.14 RSI (R 6.2/in)
Surface Burning (flame spread index)	CAN/ULC S102-10	30
15 minutes wall assembly high heat	NBC, Art. 3.2.3.8 Protection Exterior Building Face, Sentence 2 CAN/ULC S101 15-min. Stay In Place test.	Met the requirements on three different wall designs. Independent laboratory report upon request.
Initial Thermal Resistance *	ASTM C-518 (CAN/ULC S770) 10 days 23ºC and 50% R.H.	2.49 RSI (R 7.2/in)

*Independent testing verified that BOREAL NATURE ELITE R-value varies by less than 3% from the initial thermal resistivity value when samples were conditioned for 180 days. (23ºC and 50% R.H)

TECHNICAL DATA SHEET **LIFEBREATH RNC 205 HEAT RECOVERY VENTILATION**

GENYK POLYURETHANE

BOREAL NATURE ELITE TECHNICAL DATA SHEET

RECYCLED AND RENEWABLE CONTENT	
Recycled Content	17.4 %
Renewable Materials Content (Veg. oils)	5.8 %

LONG TERM THERMAL RESISTANCE (CAN/ULC S770-09)		
THICKNESS mm (in)	R-VALUE (ft².hr.ºF)/Btu	RSI (m².K)/W
50.8 (2.00)	11.4	2.0
63.5 (2.50)	14.3	2.5
76.2 (3.00)	17.4	3.1
88.9 (3.50)	20.6	3.6
102.0 (4.00)	24.1	4.2
127.0 (5.00)	30.7	5.4
152.0 (6.00)	36.5	6.4
177.8 (7.00)	42.7	7.5
203.2 (8.00)	48.9	8.6

COMPONENT PRODUCT SPECIFICATIONS		
PROPERTIES	**ISOCYANATE - A-2732**	**RESIN - BOREAL NATURE ELITE**
Colour	Brown Liquid	Green Liquid
Viscosity at 25ºC	150 – 250 cps	280 - 420 cps
Specific Gravity at 25ºC	1.22 – 1.25	1.17 – 1.23
Shelf Life	12 months	6 months
Storage Temperature	15-35ºC / 59-95ºF	15-25ºC / 59-77ºF
Ratio (volume)	100	100

INSTALLATION GUIDELINES					
Boreal Nature Elite	**Ambient Temperatures**		**Spray Temperatures**		**Minimum Spray Pressure**
Summer	50ºF to 95ºF	10ºC to 35ºC	95ºF to 120ºF	35ºC to 49ºC	5516 kPa (800 psi)
Regular	32ºF to 68ºF	0ºC to 20ºC	95ºF to120ºF	35ºC to 49ºC	
Winter	14ºF to 50ºF	-10ºC to +10ºC	100ºF to 130ºF	38ºC to 55ºC	

ADDITIONAL INFORMATION

- Maximum thickness per pass must not exceed 50 mm (2 inches). Thicknesses greater than 50 mm per pass generate excessive exothermic heat which, in extreme cases, may ignite the foam.
- It is possible to apply two successive passes of 50 mm. Wait 2 hours before applying a third pass of 50mm. Alternatively, wait until the internal temperature in the center of the foam is less than 37ºC (100ºF) to apply an additional pass of 50mm.
- Maximum installed thickness during 24 hour period is not to exceed 200mm (8 inches).
- Boreal Nature Elite is combustible and must be installed in accordance with applicable building codes.
- The service temperature is between -60°C and 80°C.
- Before handling these chemicals, please consult the Safety Data Sheet for the two components (available online).
- Temperature, humidity, equipment, substrate can vary installation parameters.
- In the application vehicle, the recommended storage temperature of the products (A and B) should be between 18°C and 24°C for optimum performance.

The information contained herein is considered an accurate description of the product performance at the time of printing. Genyk Inc. disclaims any liability for incidental or consequential damages which may result from the inappropriate use of this product. It is the user's responsibility to thoroughly test the product in any application. No information contained herein is to be considered as permission or recommendation to infringe on any patent or other intellectual property.
BOREAL Nature Elite must be applied by licensed installers in accordance with the CAN/ULC S705.2 application standard.

genyk.com
1-844-404-3695 | info@genyk.com
1701 3rd Avenue, Shawinigan (QC) G9T 2W6

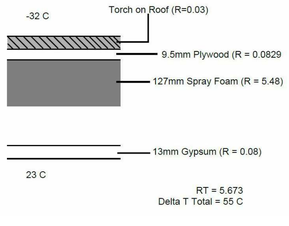
TDS-BNE-1123

Performance (HVI certified)
Net supply air flow in cfm (L/s) against external static pressure

External Static Pressure	Airflow
@ 0.1 in (25 Pa)	222 cfm (105 L/s)
@ 0.2 in (50 Pa)	207 cfm (98 L/s)
@ 0.3 in (75 Pa)	193 cfm (91 L/s)
@ 0.4 in (100 Pa)	179 cfm (84 L/s)
@ 0.5 in (125 Pa)	165 cfm (78 L/s)
@ 0.6 in (150 Pa)	150 cfm (71 L/s)
@ 0.7 in (175 Pa)	135 cfm (63 L/s)
@ 0.8 in (200 Pa)	119 cfm (56 L/s)
@ 0.9 in (225 Pa)	102 cfm (48 L/s)
@ 1.0 in (250 Pa)	84 cfm (40 L/s)
Max. Temperature Recovery	81%
Sensible Effectiveness @ 100 cfm (47 L/s) 32°F (0°C)	77%
Sensible Efficiency @ 100 cfm (47 L/s) 32°F (0°C)	68%
Sensible Efficiency @ 100 cfm (47 L/s) -13°F (-25°C)	68%
VAC @ 60Hz	120
Watts / Low speed	64
Watts / High speed	96
Amp rating	1.4

Sensible Efficiency: Thermal
Effectiveness: Based on temperature differential between the 2 airstreams
Efficiency: Takes into account all power inputs

HRV SPECIFICATION

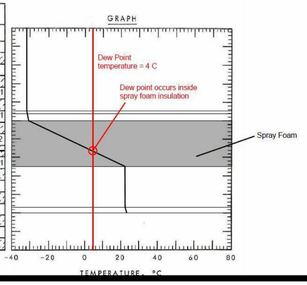


P.ENG WILL PROVIDE LETTER OF VERIFICATION AT THE COMPLETION OF CONSTRUCTION THAT THE UN-VENTED ROOF ASSEMBLY HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE 2023 (B 9.19.1.1) AT THE FINAL INSPECTION

TABLE

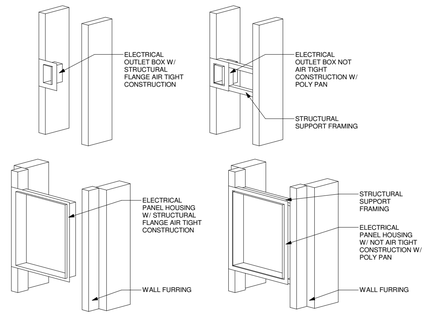
COMPONENT		R	R/R_T	SUMMER ΔT	SUMMER T	WINTER ΔT	WINTER T
EXTERIOR T							-32
~~EXT. AIR FILM~~	~~1~~						~~-32~~
							-32
Torch on Roof	2	0.03	0.005			0.29	-31.71
Plywood	3	0.0829	0.0146			0.8	-30.91
Spray Foam	4	5.48	0.966			53.13	22.22
Air Space	5						-30.91
Gypsum Board	6	0.08	0.0141			0.78	23
	7						
INT. AIR FILM	8						
INTERIOR T							
TOTAL		5.673	1.0			55	

GRAPH



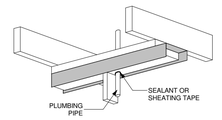
ELECTRICAL PENETRATIONS IN WALLS

ELECTRICAL PENETRATIONS IN WALLS, INCLUDING ELECTRICAL OUTLETS, WIRING, SWITCHES AND RECESSED LIGHT FIXTURES THROUGH THE PLANE OF AIRTIGHTNESS MUST BE AIRTIGHT. OPTIONS INCLUDE USING A COMPONENT THAT IS DESIGNED TO BE AIRTIGHT AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL, OR BY COVERING THE COMPONENT WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL.



VENT PIPE

PLUMBING VENT STACK PIPES THAT PENETRATES THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY EITHER SEALING THE AIR BARRIER MATERIAL TO THE VENT STACK PIPE WITH A COMPATIBLE MATERIAL OR SHEATHING TAPE, OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION OF THE PLANE OF AIRTIGHNESS AND SEALING IT TO THE ADJACENT AIR BARRIER.



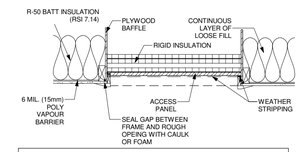
MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS PLACED WITHIN AND PARALLEL TO AN EXTERIOR WALL REQUIRED TO BE INSTALLED TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED FOR THE WALL AT THE PROJECTED AREA OF THE SYSTEM COMPONENT.

WITHOUT HRV'S, EVERY DUCT OR OPENING INTENDED TO DISCHARGE AIR TO THE OUTDOORS SHALL BE EQUIPPED WITH A MOTORIZED DAMPER OR GRAVITY OR SPRING OPERATED BACKFLOW DAMPER (9.36.3.3)

AIR BARRIER SYSTEM CONSIST OF FLEXIBLE SHEET MATERIAL. ALL JOINTS SHALL BE LAPPED NOT LESS THAN 50mm, SEALED, AND STRUCTURALLY SUPPORTED.

ATTIC HATCH

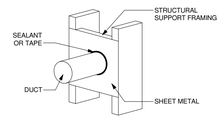
AIR LEAKAGE OCCURS THROUGH THE JOINT BETWEEN THE HATCH AND THE AIR BARRIER IN THE CEILING. THE HATCH IS MOST OFTEN A PIECE OF GYPSUM BOARD CUT TO SIZE RESTING ON A LEDGE MADE FROM WOOD TRIM OR THE EDGE OF THE CEILING. AIR SEALING CAN BE ACHIEVED BY ENSURING THE HATCH IS SIZED PROPERLY SO THAT IT HAS ENOUGH CONTACT WITH THE OPENING LEDGE AND PROVIDING A CLOSED CELL FOAM GASKET AROUND THE PERIMETER.



ACCESS HATCHES SEPARATING A CONDITIONED SPACE FROM AN UNCONDITIONED SPACE SHALL BE INSULATED TO A NOMINAL THERMAL RESISTANCE OF NOT LESS THAN 2.6 RSI (R15). EQUIVALENT TO 3" OF EXTRUDED POLYSTYRENE: TYPES 2, 3 &4 (CAN/ULC-S701)

DUTCS DETAIL

DUCT PASSING THROUGH UNHEATED SPACES SHALL HAVE ALL JOINTS TAPED OR OTHERWISE SEALED TO ENSURE THAT THE DUCTS ARE AIRTIGHT THROUGHOUT THEIR LENGTH. DUCTS IN OR BENEATH CONCRETE SLABS-ON-GROUND SHALL BE WATERTIGHT AND CORRISION-, DECAY-, AND MILDEW-RESISTANT. EXHAUST DUCTS LEADING DIRECTLY TO THE EXTERIOR, DUCTS AND PLENUMS CARRYING CONDITIONED AIR AND LOCATED OUTSIDE THE PLANE OF INSULATION SHALL HAVE ALL JOISTS SEALED AGAINTS AIR INFILTRATION AND EXFILTRATION WITH SEALANTS OR GASKETS MADE FROM LIQUIDS, MASTICS, OR HEAT-APPLIED MATERIALS, MASTIC WITH EMBEDDED FABRIC, OR FOIL-FACED BUTYL TAPE. (FABRIC-BACKED TAPE WITH RUBBER ADHESIVE SHALL NOT BE USED AS A PRIMARY SEALANT TO MEET THE REQUIREMENTS OF CLAUSE)



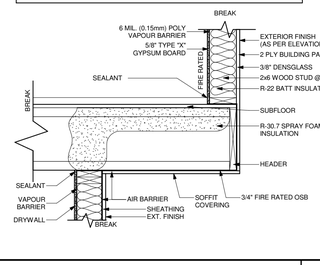
FLOOR SPACE AT CANTILEVER CLIMATE ZONE 7A ENERGY FLOOR ASSEMBLY DETAIL

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 5.02 2 X 14" @ 19.2" O.C.	MM	RSI
ASSEMBLY DESCRIPTION		
1. EXTERIOR AIR FILM	-	0.03
2. NON-VENTED ALUMINUM SOFFIT	-	-
3. 2 PLY BUILDING PAPER	-	-
4. 3/4" OSB SHEATHING	19.05	0.16
5. 2X14" I-JOISTS @ 19.2" O.C. (355.6mm x 0.0085 RSI/mm) RSI = 3.02 % AREA OF FRAMING = 7.5%		
6. 6" SPRAY FOAM INSULATION (152.4mm x 0.036 RSI/mm) RSI = 5.48 % AREA OF CAVITY = 92.5%		
7. 6 MIL. (0.15mm) POLY VAPOUR BARRIER	-	-
8. 1/2" GYPSUM BOARD	12.7	0.08
9. INTERIOR AIR FILM	-	0.16
RSI = 100 / parallel (7.5/3.02) + (92.5/5.48)		5.16
TOTAL EFFECTIVE INSULATION VALUE		RSI 5.54

NON-VENTED ASSEMBLY **WITH** A HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 5.02
CCMC #14140-L

CANTILEVER (ROOF/FLOOR)

CANTILEVERED FLOORS AND FLOORS OVER UNHEATED/EXTERIOR SPACE MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL.



FENESTRATION (WINDOWS AND DOORS TO HAVE AN OVERALL THERMAL TRANSMITTANCE (U-VALUE) NOT GREATER THAN THE VALUES LISTED IN TABLE 9.36.2.7 A FOR CLIMATE ZONE 7A THE U VALUE **MUST BE 1.60**, WITH A MIN ENERGY RATING OF 25

fenestration canada

Building code fenestration performance calculator
for codes based on NBC 2010

calculations based on AAMA/WDMA/CSA 101/I.S. 2/A440-08 (NAFS-08) AND CSA A440S1-09 WITH UPDATE NO. 1 (CANADIAN SUPPLEMENT TO NAFS-08)

calgary, ab

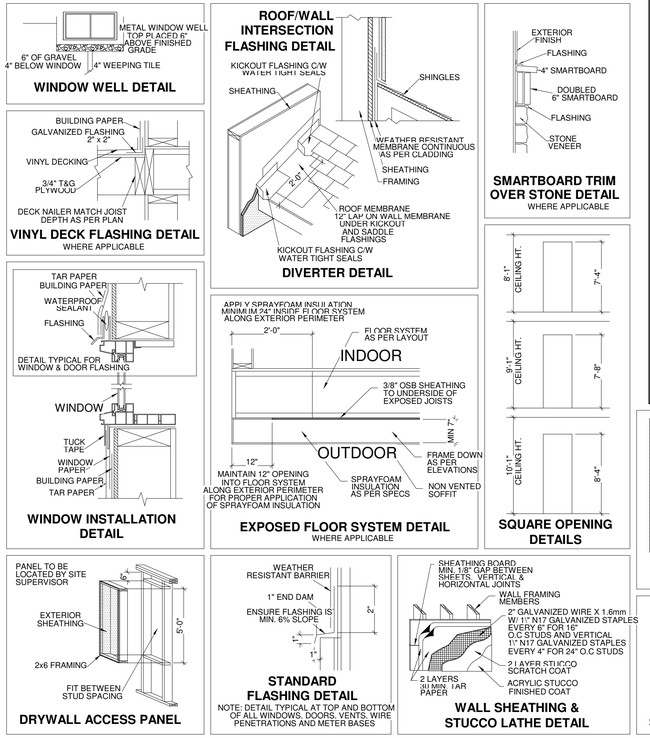
product height Above ground to top of product: 10 metres | open Terrain type [A]

project notes
(U-value Windows & Doors-1.6) (U-Valie Skylights-2.7)

performance requirements

minimum performance grade (PG)[B]	30
minimum positive design pressure	1440 PA
minimum negative design pressure	1440 PA
minimum water penetration test pressure	330 PA
minimum Canadian air infiltration/exfiltration[C]	A2

STANDARD DETAILS



DRYWALL ACCESS PANEL

STANDARD FLASHING DETAIL

NOTE: DETAIL TYPICAL AT TOP AND BOTTOM OF ALL WINDOWS, DOORS, VENTS, WIRE PENETRATIONS AND METER BASES

WALL SHEATHING & STUCCO LATHE DETAIL

JTA DESIGN + PERMITS

GENERAL NOTES:

PROFESSIONAL ENGINEER PROVINCE OF ALBERTA PERMIT TO PRACTICE JOHN TRINH

SPRAY FOAM ONLY
MAY, 13 2025

MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
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DRAWING SET:

SHEET NAME:
HRV Details

DESIGN BY: JT

DRAWN BY: JT

LAST REVISION BY:

PRINTED: 2025-07-09 10:39:59 AM

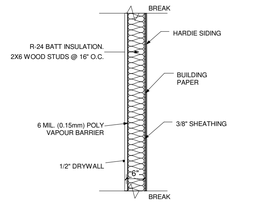
SCALE: As indicated

PAGE: **A-5.2**

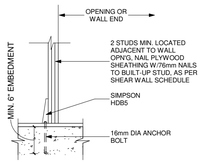
"E3" TALL WALL DETAIL & CLIMATE ZONE 7A ENERGY WALL ASSEMBLY DETAIL

		MM	RSI
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE =RSI 2.97			
2 X 6 STUDS @ 16" O/C			
ASSEMBLY DESCRIPTION			
1.	EXTERIOR AIR FILM	-	0.03
2.	STUCCO AND WIRE MESH	-	-
3.	2 PLY BUILDING PAPER	-	0.011
4.	3/8" PLYWOOD	9.5	0.083
5.	2X6 STUDS @ 16" O.C. (140mm x 0.0085 RSI/mm) RSI_F= 1.19 % AREA OF FRAMING = 23%		
6.	R-24 FIBREGLASS BATT INSULATION (140mm THICK; RSI 4.23) RSI_C= 4.23 % AREA OF CAVITY = 77%		
7.	6 MIL. (0.15mm) POLY VAPOUR BARRIER	-	-
8.	1/2" GYPSUM BOARD	12.7	0.08
9.	INTERIOR AIR FILM	-	0.12
$RSI = \frac{100}{\text{parallel } (23/1.19) + (77/4.23)}$			2.66
TOTAL EFFECTIVE INSULATION VALUE			RSI 2.98

ABOVE GRADE WALL ASSEMBLY **WITH** HEAT RECOVERY VENTILATION- ZONE 7A MIN RSI 2.97



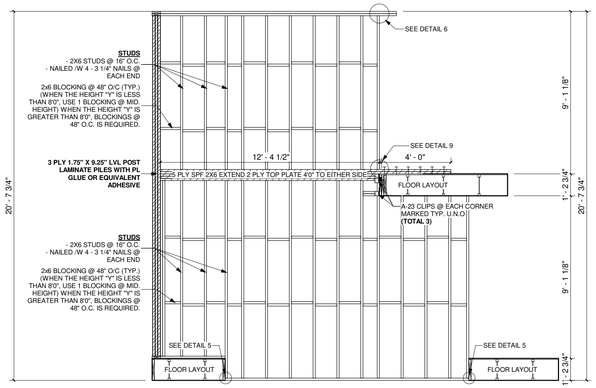
TALL WALL DETAIL
SCALE: NTS



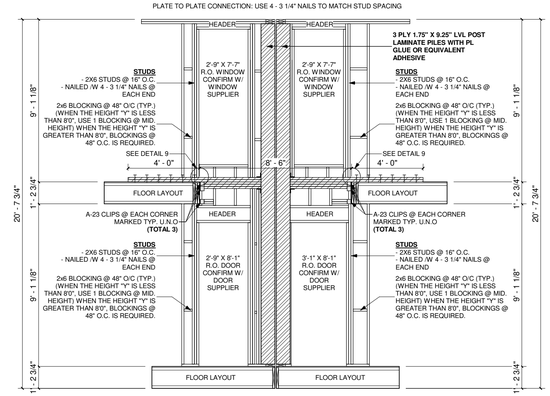
TYPICAL HOLD DOWN DETAILS
SCALE: NTS

ENGINEERED TALL WALL GENERAL NOTES:

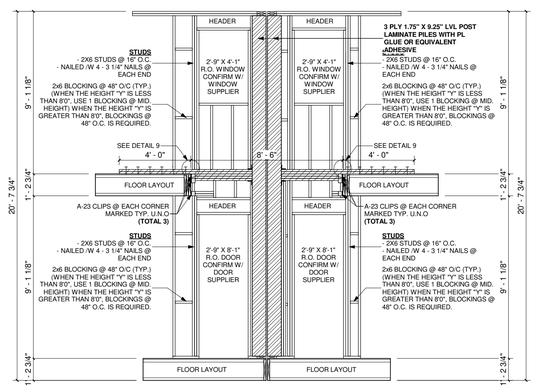
1. ALL STUDS SHALL BE NAILED WITH MIN. 4 NAILS @ EACH STUD END USING 3 1/4" x 0.131" (12d) COMMON WIRE/SPIRAL (U.N.O.)
2. KING STUDS (MORE THAN 3 PLY) SHALL BE FASTENED USING SDS SIMPSON WOOD SCREWS (OR EQUIVALENT) @48" O.C. ON EACH SIDE STAGGERED OR THREADED ROD/THROUGH BOLT @48" O.C.
3. USE TWO A23 SIMPSON FRAMING ANGLES (OR EQUIVALENT) AT EACH KING STUD TO PLATE CONNECTON.
4. STUDS, PLATES, JAMBS, AND LINTELS ARE ASSUMED TO BE SPF#2 OR BETTER.
A. SHEATHED ON THE EXTERIOR WITH MIN. 3/8" OSB OR PLYWOOD SHEATHING OR 1/2" DRYWALL. OSB AND PLYWOOD SHEATHING TO BE NAILED WITH MIN. 1 1/2" STAPLES @ 4" O.C. AT EDGES OF SHEATHING PANEL AND 12" O.C. ELSEWHERE OR 2" COMMON WIRE NAILS @ 6: O.C. AT EDGES AND 12" O.C. ELSEWHERE. DRYWALL TO BE SCREWED WITH MIN. 1 1/4" DYWALL SCREWS AT 8" O.C. AT EDGES OF SHEATHING PANEL AND 12" O.C. ELSEWHERE. PROVIDE VERTICALWALL BLOCKING @ EVERY 4 FT O.C.. OR
B. SHEATHED ON THE EXTERIOR WITH 5/8" GYPSUM SHEATHING WITH VERTICAL WALL BLOCKING @ EVERY 4FT O.C.. SCREW WITH MIN. 1 5/8" BUGLE HEAD, RUST-RESISTANT, COARSE THREAD SHARP POINT SCREW @ 4" O.C. AT EDGES OF SHEATHING PANEL AND 8" O.C. ELSEWHERE.
5. PROVIDE STUDS UNDER GIRDER TRUSS LOCATION (NUMBER OF STUDS NEEDED = GIRDER PLIES +1).
6. AT TALL WALL CORNERS, EXTEND SHEATHING 5 1.2: OVER FROM ADJACENT WALL AND NAIL SHEATHING AT THE CORNER TO ADJACENT WALL WITH 2 ROWS OF 2" C.W.N. (OR 1 1/2" STAPLE) @ 12" O.C..
7. PRESSURE TREATED LUMBER IS REQUIRED WHEN WALL COME IN DIRECT CONTACT WITH CONCRETE.
8. THE TALL WALL HAVE BEEN DESIGNED IN ACCORDANCE WITH STANDATA AND THE 2023 NATIONAL BUILDING CODE.
9. THIS ENGINEERED TALL WALL WILL BE ASSEMBLE ON SITE.



TALL WALL 1
SCALE: NTS



TALL WALL 2
SCALE: NTS



TALL WALL 3
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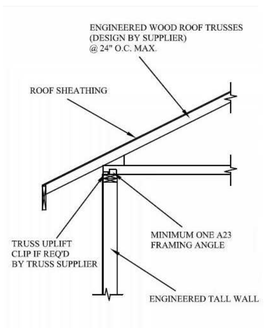
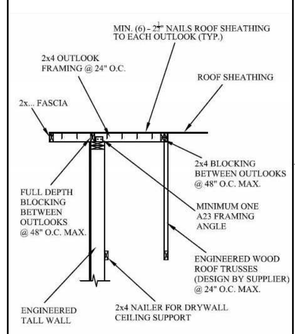
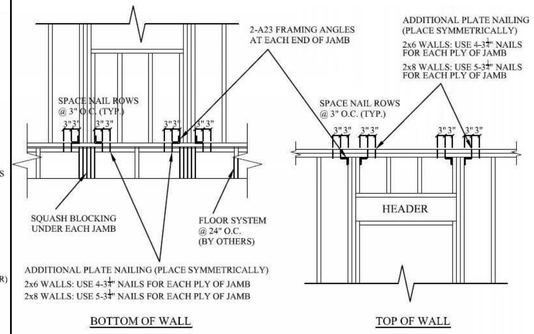


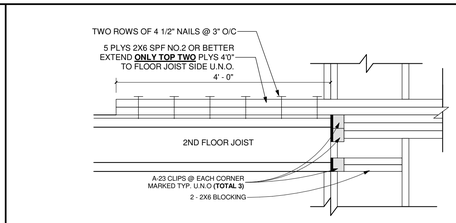
DETAIL 1
TALL WALL PERPENDICULAR TO TRUSS



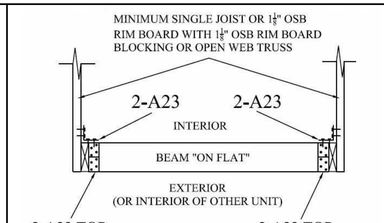
DETAIL 2
RAKE TALL WALL PARALLEL TO TRUSS



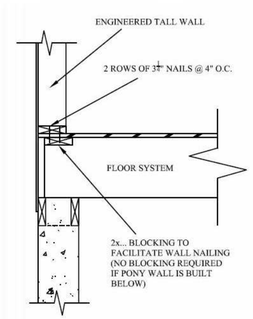
DETAIL 3
TOP & BOTTOM PLATE NAILING DETAILS NEAR JAMB



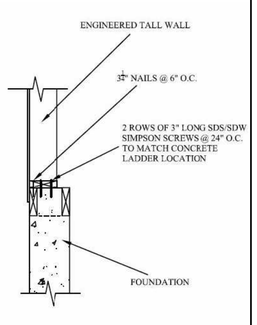
DETAIL 9
PLATE TOP CONNECTION TO FLOOR SYSTEM



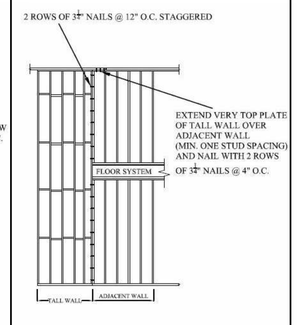
TOP VIEW - BEAM "ON FLAT" TO FLOOR CONNECTION



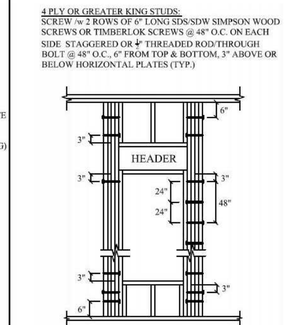
DETAIL 4
TALL WALL ON TOP OF SUB-FLOOR



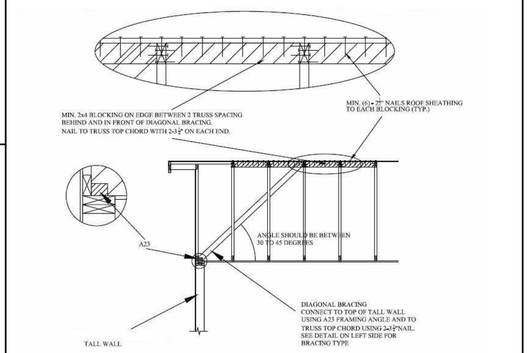
DETAIL 5
TALL WALL ON TOP OF FOUNDATION



DETAIL 6
TALL WALL AND ADJACENT WALL CONNECTION



DETAIL 7
WINDOW / DOOR JAMB CONNECTION



CROSS SECTION

NOTE:

1. THE BRACING SHOULD RUN CONTINUOUSLY FROM TOP OF TALL WALL TO UNDERSIDE OF ROOF SHEATHING, BUTTING AGAINST TRUSS TOP CHORD.
2. SHIFT BRACING LEFT OR RIGHT TO AVOID TRUSS WEB INTERFERENCE.
3. DO NOT NOTCH, CUT, OR DAMAGE ANY PART OF THE TRUSS.
4. 2 AND 3 PLY BRACING SHALL BE NAILED TOGETHER USING 3¼" NAILS @ 8" O.C. STAGGERED.
5. BRACING SHALL BE SPACED @ 24" O.C. MAX.
6. BOTTOM OF TRUSS IS TO BE BRACED IN ACCORDANCE WITH TRUSS MANUFACTURE RECOMMENDATION.

DETAIL 8
DIAGONAL BRACING DETAIL

V3.0

JTA DESIGN + PERMITS

GENERAL NOTES:

PROFESSIONAL ENGINEER IN ALBERTA
JOHN TRINH
49° STAMP
PERMIT TO PRACTICE
P8258

TALL WALL ONLY
MAY, 13 2025

MUNICIPAL ADDRESS:
101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

PROJECT NUMBER:
243-24

STATUS:
BP

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05.	--	--	--
06.	--	--	--

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DRAWING SET:

SHEET NAME:
Tall Wall

DESIGN BY: JT

DRAWN BY: JT

LAST REVISION BY:

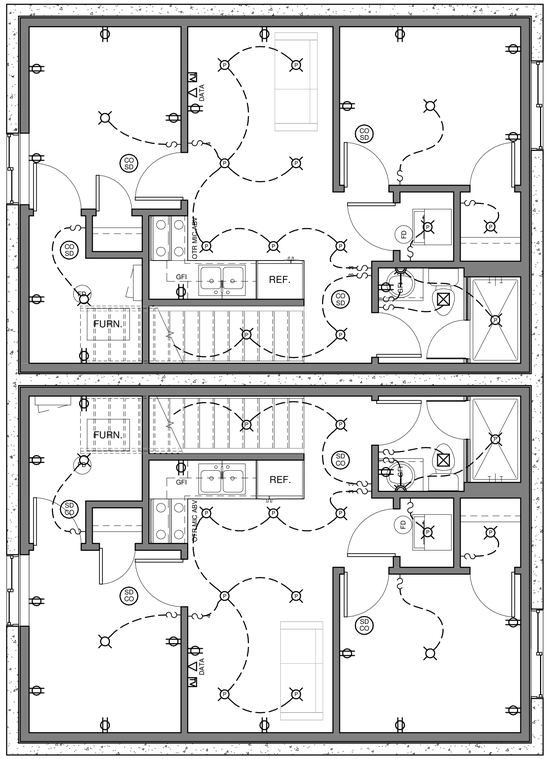
PRINTED: 2025-07-09 10:40:00 AM

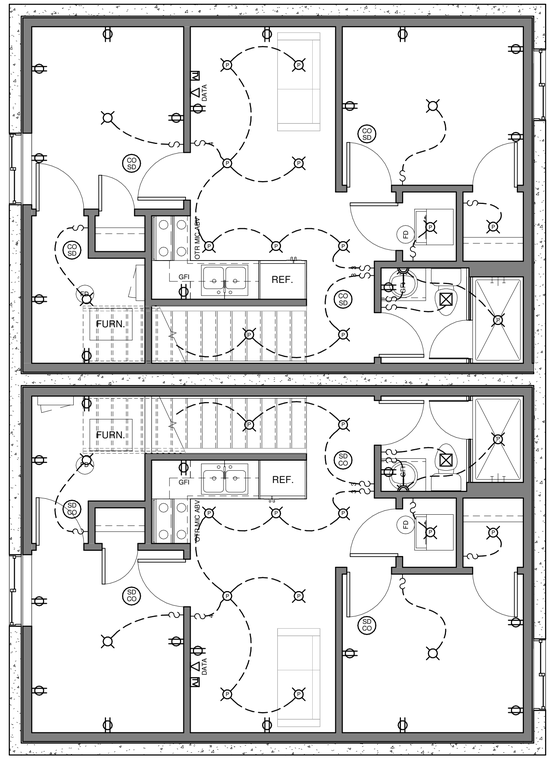
SCALE: As indicated

PAGE: **A-5.3**

ELECTRICAL SCHEDULE

DATA	DATA OUTLET		CEILING FIXTURE
TV	TV OUTLET		WALL SCONES
3	3-WAY SWITCHING		POT LIGHTING
S	SINGLE SWITCHING	SD	SMOKE DETECTOR
	STANDARD PLUG		BATH FAN
GFI	GFI PLUG		





BASEMENT FLOOR PLAN

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

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03.	07/05/25	ADDRESSING	AD.
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05.	00.00.00	--	--
06.	00.00.00	--	--

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101, 102, 201 & 202
215 41 Ave NW
CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	-
SCALE:	As indicated

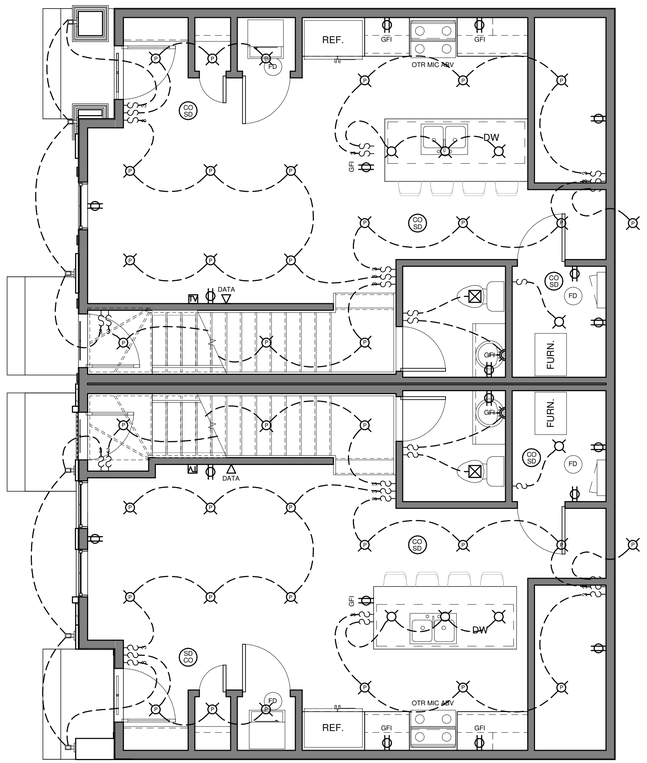
DRAWING SET:

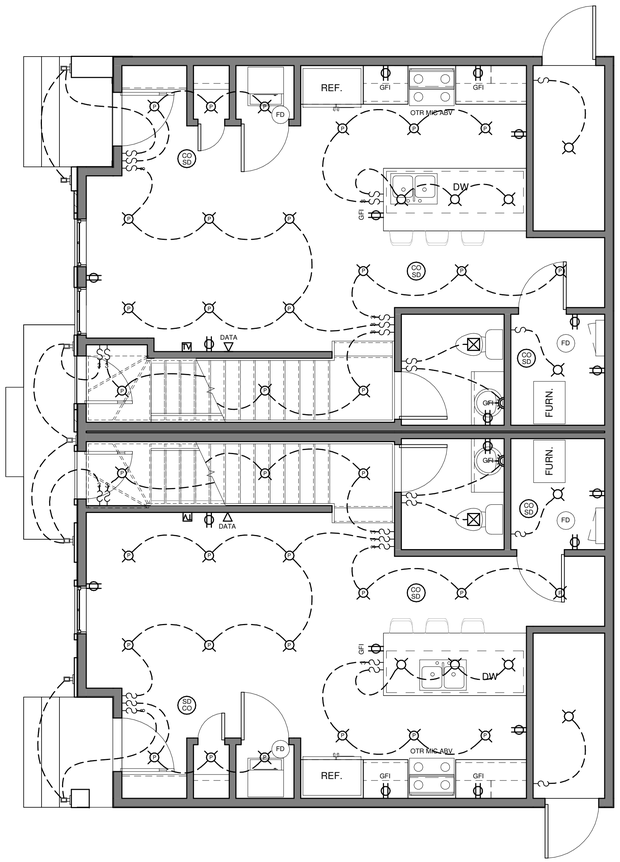
SHEET NAME:
Basement Electrical

PAGE: **E-1.0**

ELECTRICAL SCHEDULE

DATA	DATA OUTLET		CEILING FIXTURE
TV	TV OUTLET		WALL SCONES
3	3-WAY SWITCHING		POT LIGHTING
S	SINGLE SWITCHING		SMOKE DETECTOR
	STANDARD PLUG		BATH FAN
GFI	GFI PLUG		





MAIN FLOOR PLAN

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

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215 41 Ave NW
CALGARY, ALBERTA
PROJECT:
CLUSTER HOUSING
STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	As indicated

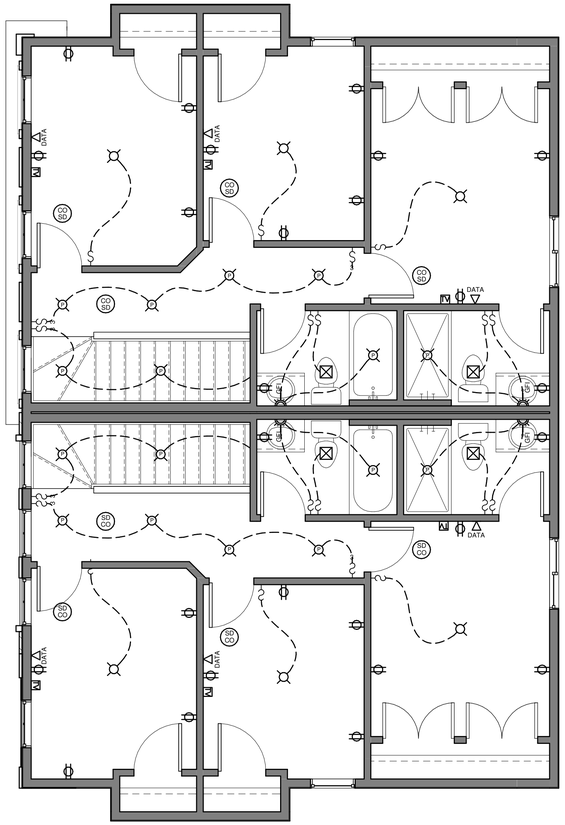
DRAWING SET:

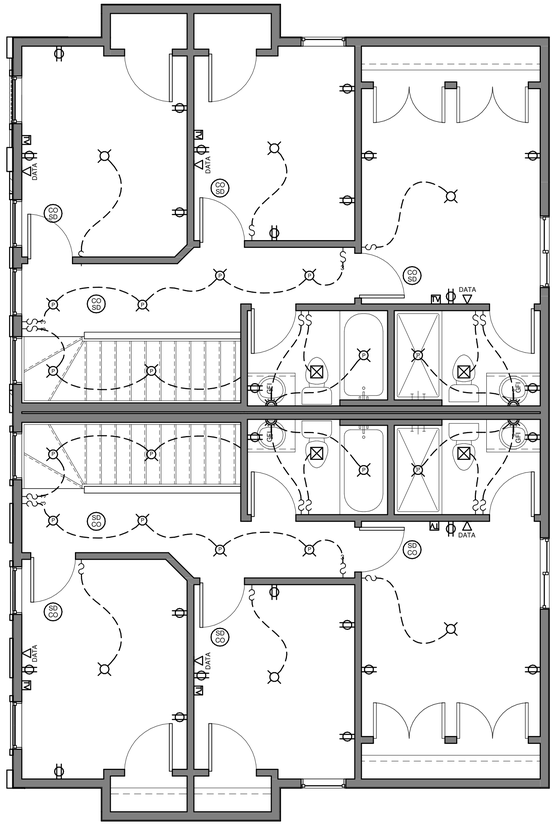
SHEET NAME:
Main Electrical

PAGE: **E-1.1**

ELECTRICAL SCHEDULE

DATA	DATA OUTLET		CEILING FIXTURE
TV	TV OUTLET		WALL SCONES
3	3-WAY SWITCHING		POT LIGHTING
S	SINGLE SWITCHING	SD CO	SMOKE DETECTOR
	STANDARD PLUG		BATH FAN
GFI	GFI PLUG		





UPPER FLOOR PLAN

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CALGARY, ALBERTA

PROJECT:
CLUSTER HOUSING

STATUS:
BP

PROJECT NUMBER:	243-24
DESIGN BY:	JT
DRAWN BY:	JT
LAST REVISION BY:	
LAST REVISION DATE:	*
SCALE:	As indicated

DRAWING SET:

SHEET NAME:
Upper Electrical

PAGE: **E-1.2**