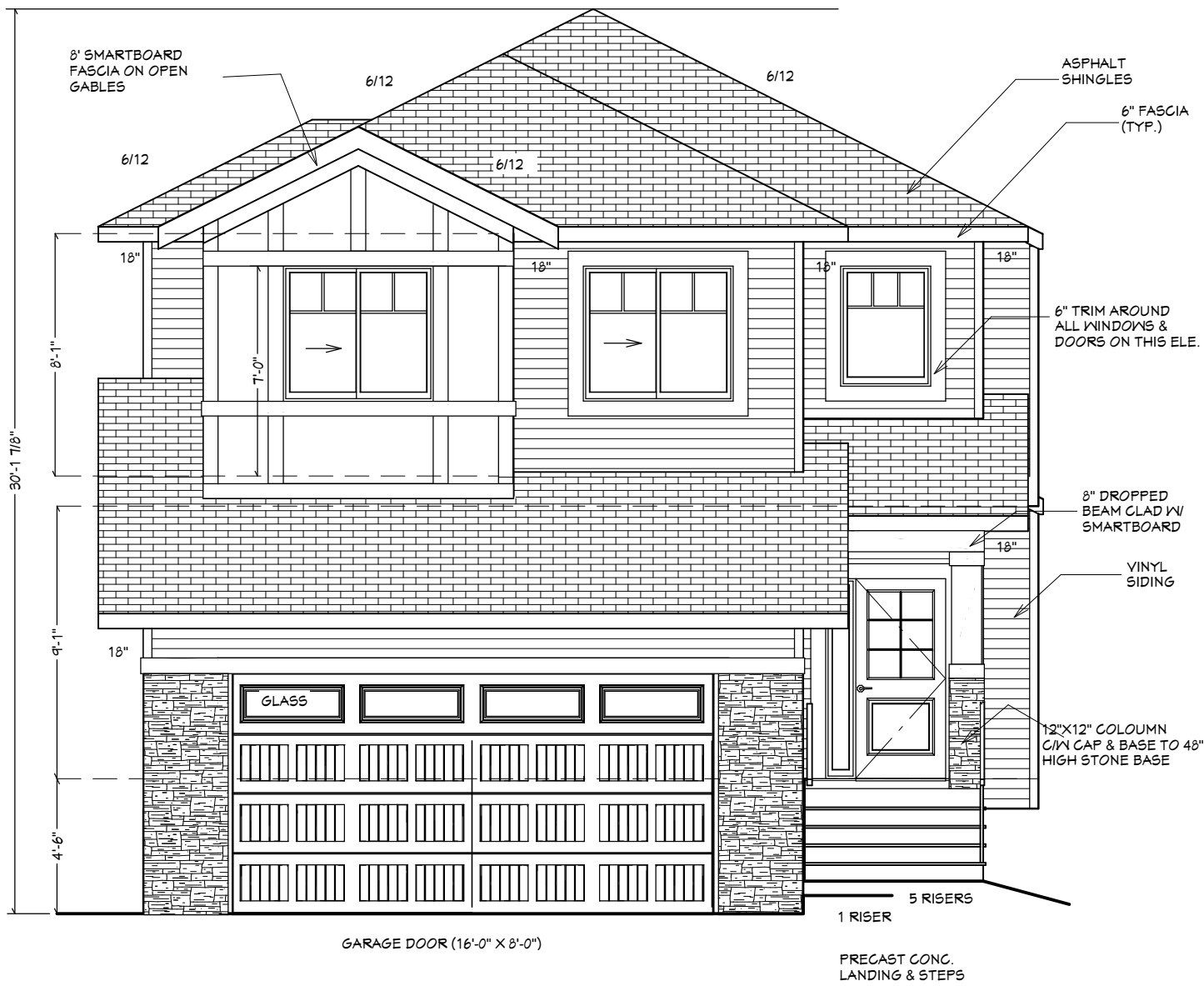
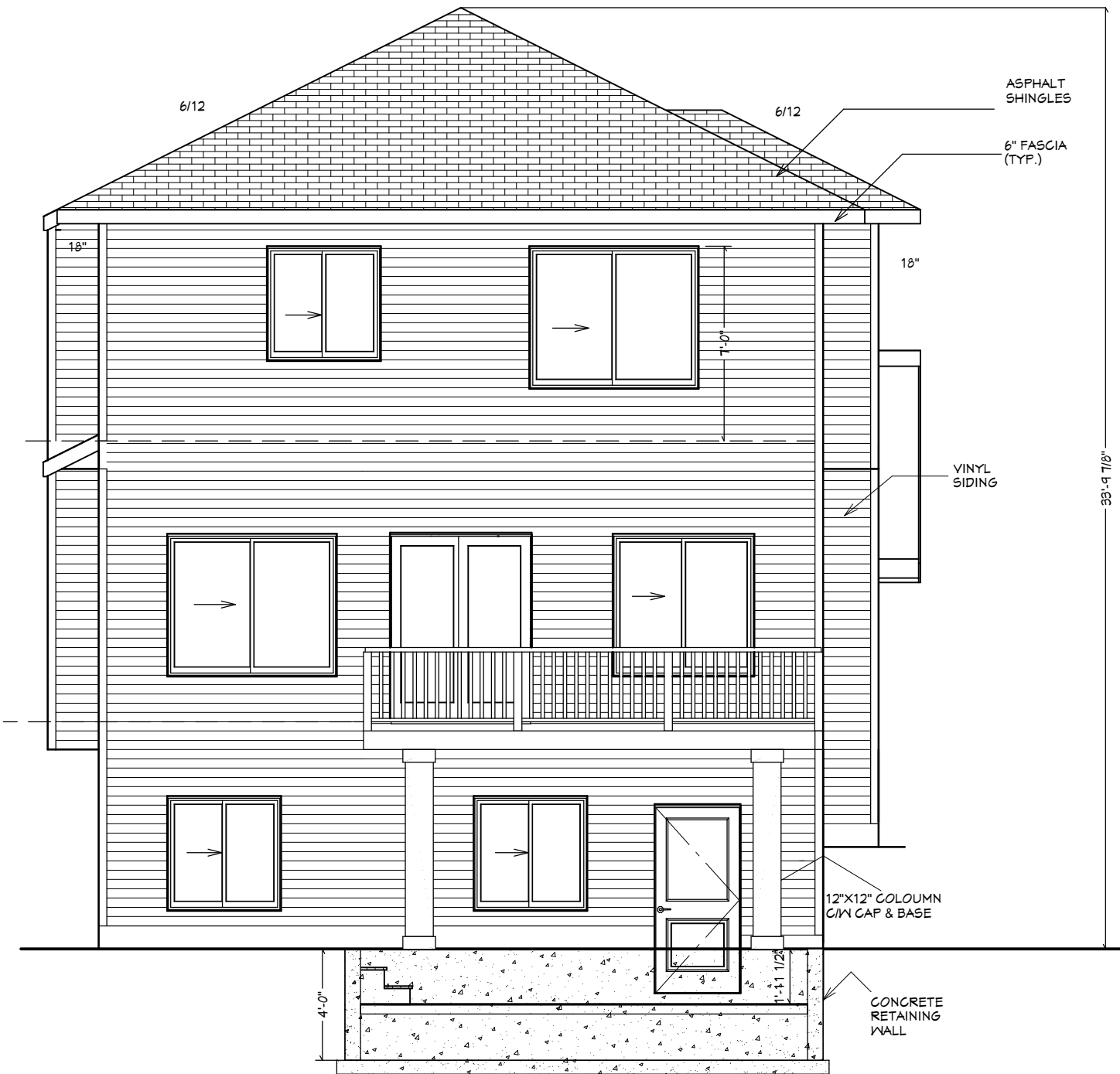
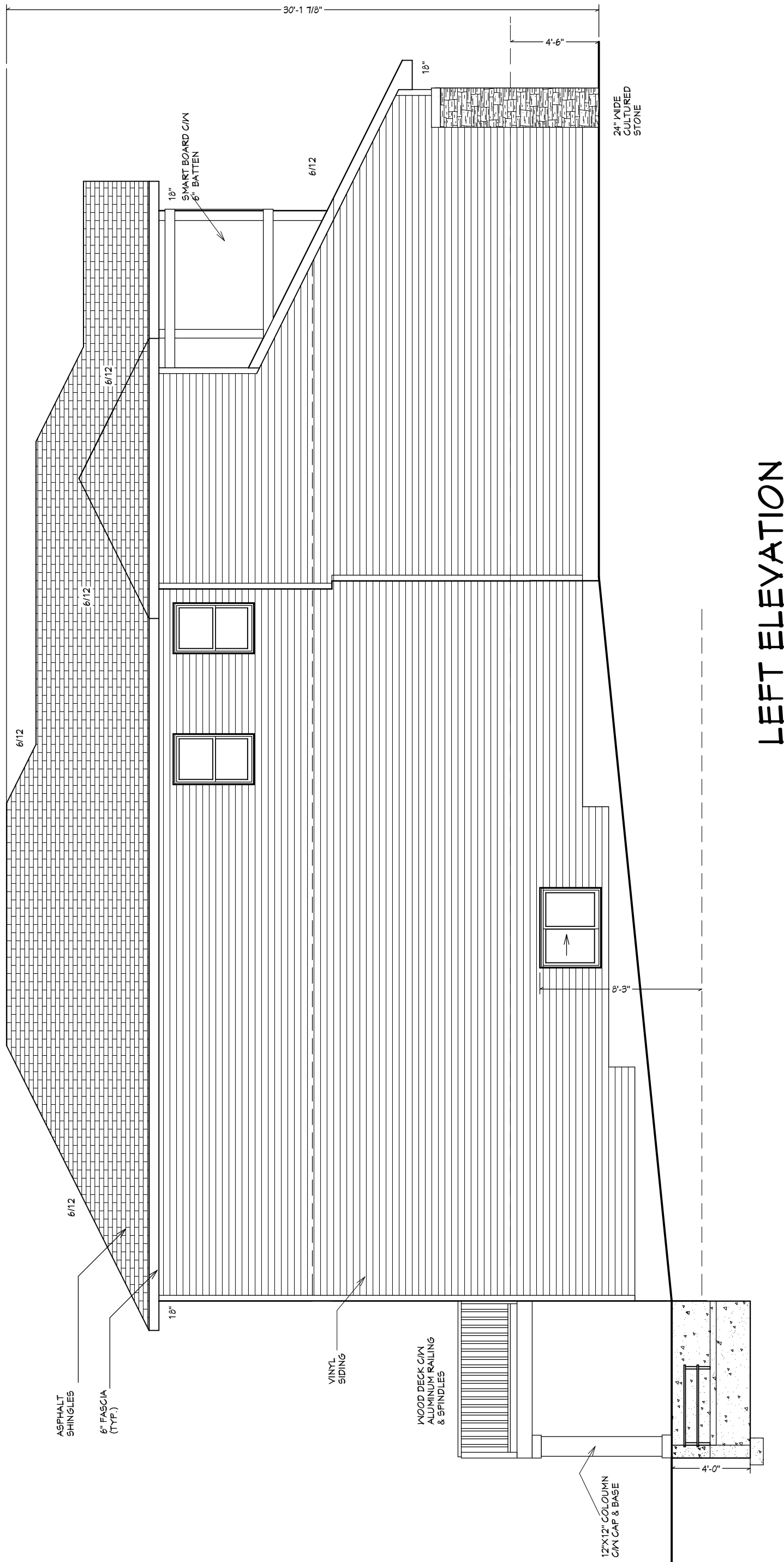




FRONT ELEVATION

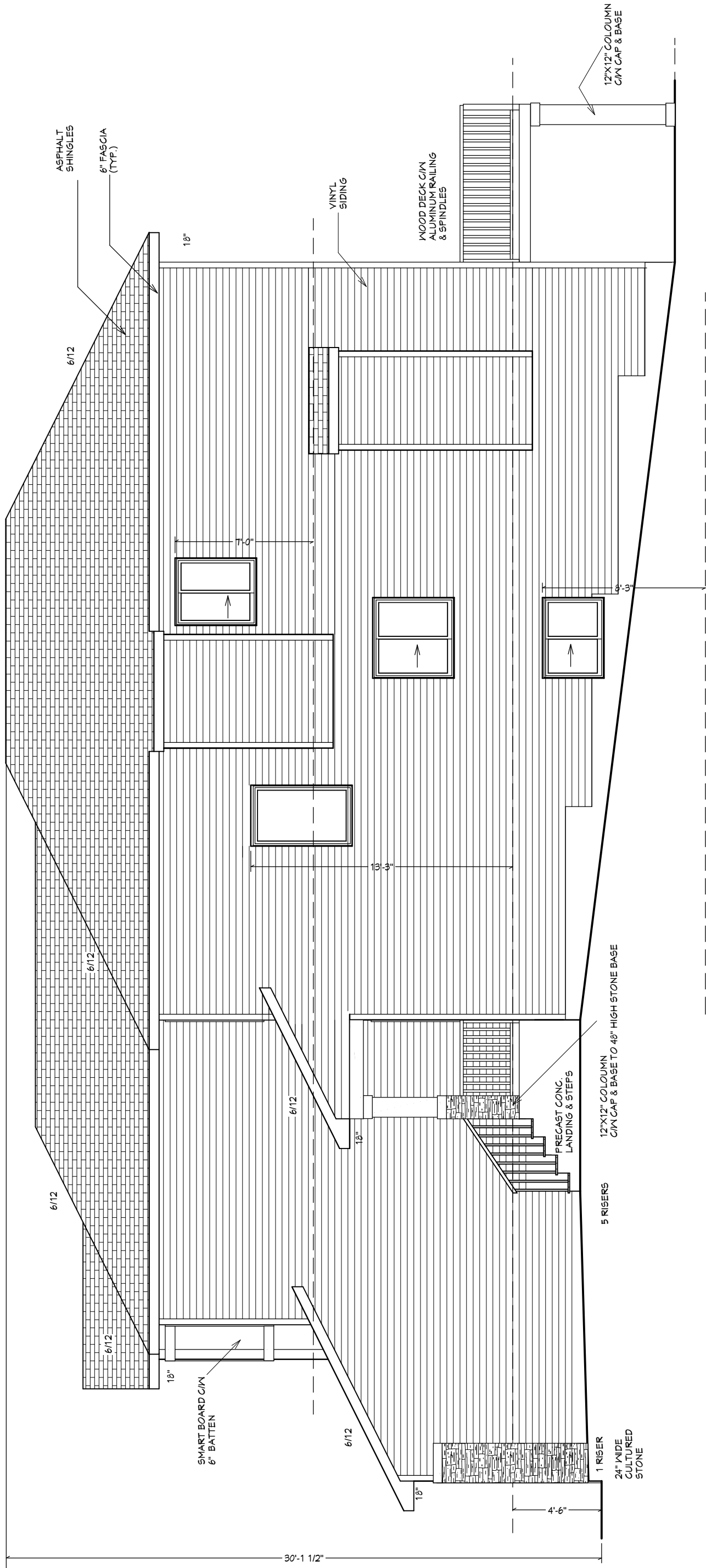


REAR ELEVATION



LEFT ELEVATION

ISSUED FOR	Revisions	date
1		



RIGHT ELEVATION

PAGE NO.

3

2/15/2022

SCALE

3/16"=1'- 0"

ISSUED FOR	Revisions	date
1		

OWNER

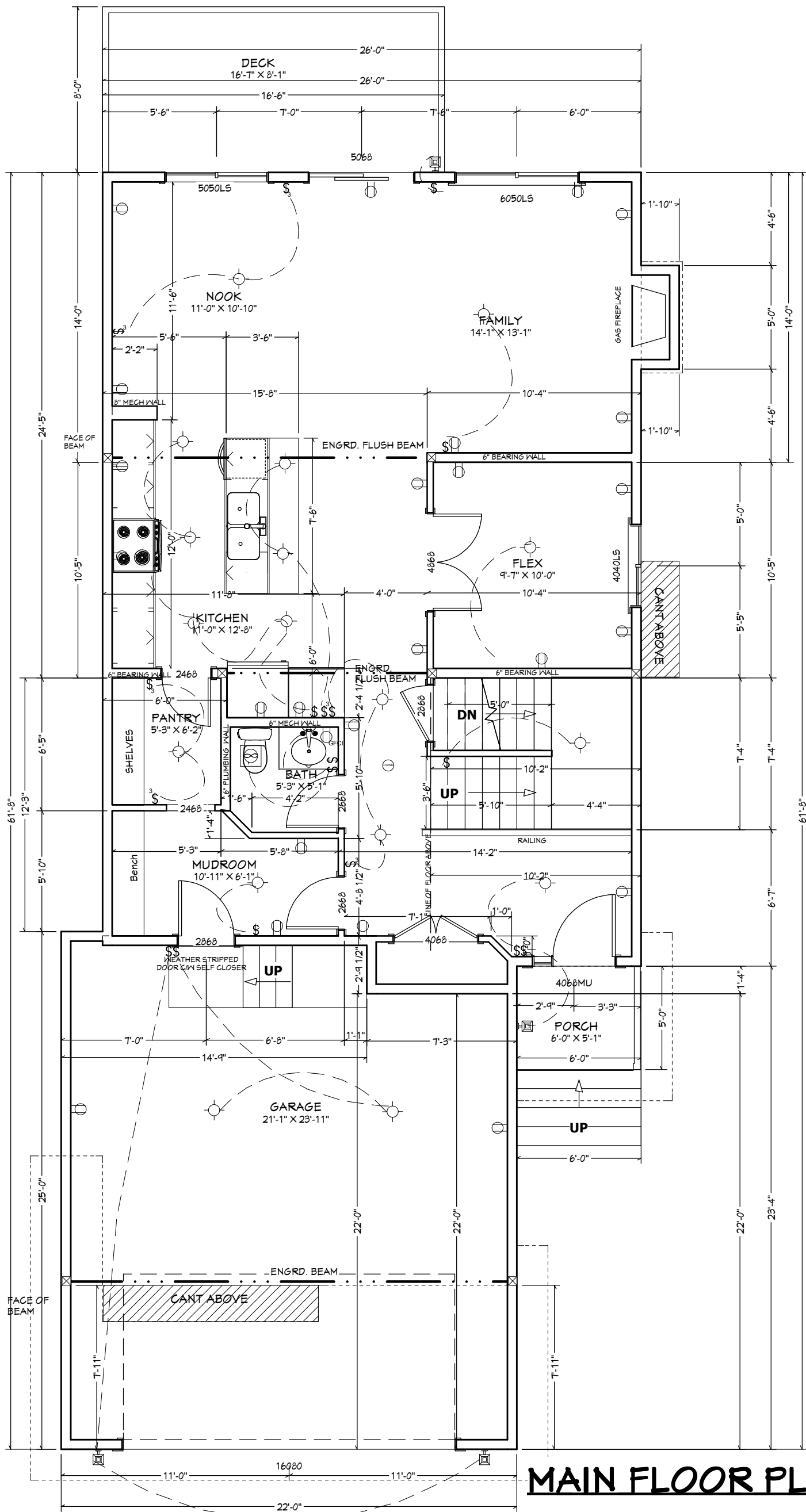
STONECRAFT HOME
826 EDGEFIELD STREET
STRATHMORE - AB
LOT 6- BLOCK 10

MAIN FLOOR : 1003
SECOND FLOOR: 1223
TOTAL SQ.FT. : 2226
COVERED PORCH: 30 SQ.FT.
DECK AREA : 132 SQ.FT
GARAGE: 525 SQ.FT.

ARCHI DESIGN INC.

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MAIN FLOOR PLAN

	Revisions	date
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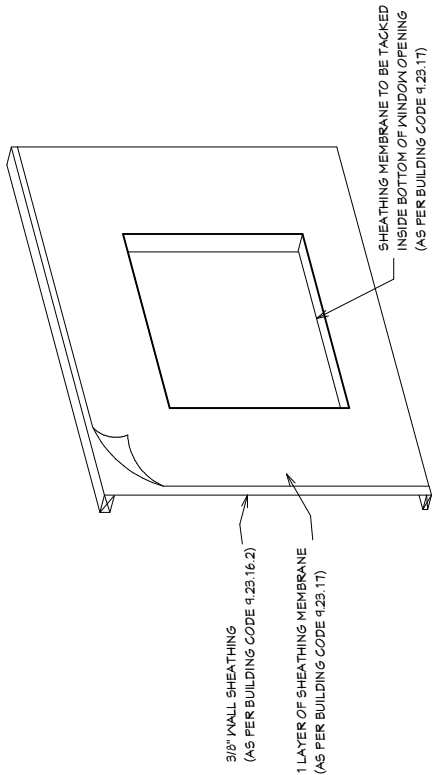
F1. FLOOR OVER UNHEATED SPACE(GARAGE)	FINISHED FLOORING AS PER SPECIFICATIONS 3/4" O.S.B. SUBFLOOR ENGED. FLOOR JOISTS, SIZED @1" O/C 6 mil POLYTHENE SHEET R35 F.G. BATT INSULATION 2" X 6" STUDS @ 24" O/C 1/2" DRYWALL AS REQUIRED	F4. FLOOR BELOW GRADE AND BELOW FROST LINE UNHEATED 3" CONCRETE FLOOR POLYTHENE SHEET CLEAN GRANULAR LAYER
F2. FLOOR OVER UNHEATED SPACE(CANTILEVER)	FINISHED FLOORING AS PER SPECIFICATIONS 3/4" O.S.B. SUBFLOOR 6 MIL POLYTHENE SHEET ENGED. FLOOR JOISTS, SIZED @1" O/C 8" SPRAY FOAM INSULLOW DENSITY BUILDING PAPER NON VENTED ALUMINUM SOFFIT	F5. INTERIOR FLOOR FINISHED FLOORING AS PER SPECIFICATIONS 3/4" O.S.B. SUBFLOOR ENGED. FLOOR JOISTS, SIZED @1" O/C 1/2" DRYWALL BOTH SIDES
F3. FLOOR BELOW GRADE& ABOVE FROST LINE	UNHEATED 3" CONCRETE FLOOR POLYTHENE SHEET 2" THICK 48" DEEPTO FOOTING EXTRUDED POLYSTYRENE CLEAN GRANULAR LAYER	F6. GARAGE SLAB 4" CONCRETE SLAB SLOPE 4" TO O/H DOOR 10 MM REBAR @ 24" O/C EACH WAY 5" COMPACTED GRAVEL

W1 - EXTERIOR WALL ABOVE GRADE	EXTERIOR FINISH BUILDING PAPER 3/8" OSB SHEATHING 2" X 6" STUDS @ 24" O/C R22 F & BATT INSULATION FLASHING OVER ALL OPENINGS 6MM POLY VAPOUR BARRIER 1/2" DRYWALL	W2 - EXTERIOR TALL WALL ABOVE GRADE	EXTERIOR FINISH BUILDING PAPER 3/8" OSB SHEATHING 2" X 6" STUDS @ 12" O/C R24 F & BATT INSULATION FLASHING OVER ALL OPENINGS 6MM POLY VAPOUR BARRIER 1/2" DRYWALL
W3 - WALL BETWEEN GARAGE AND HOUSE	1/2" DRYWALL 2" X 6" STUDS @ 24" O/C R22 F & BATT INSULATION 6MM POLY VAPOUR BARRIER 1/2" DRYWALL	W4 - FOUNDATION WALL	MIN. 6" FARGING DAMP-PROOFING TO GRADE 8" CONCRETE WALL 1 ROW 10MM REBAR TOP & BOTTOM ON 20" X 8" CONT. CONCRETE FOOTING 2" X 6" STUDS @ 24" O/C R22 F & BATT INSULATION 6MM POLY VAPOUR BARRIER
W6 - BASEMENT WALL MORE THAN 24" ABOVE GRADE/WALK OUT WALL	EXTERIOR FINISH BUILDING PAPER 3/8" OSB SHEATHING 2" X 6" STUDS @ 16" O/C R24 F & BATT INSULATION FLASHING OVER ALL OPENINGS 6MM POLY VAPOUR BARRIER 1/2" DRYWALL	W5 - INTERIOR WALL	2" X 4" OR 2" X 6" STUDS @ 24" O/C 1/2" DRYWALL BOTH SIDES

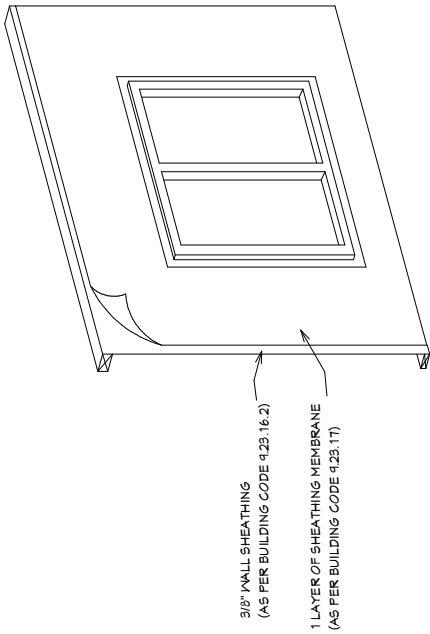
FRAMER TO INSTALL MIN. 8" POLYTHENE BETWEEN TOP PLATE/SILL PLATE AND FLOOR JOIST/TRUSS

FRAMER TO INSTALL MIN. 8" POLYTHENE BETWEEN INTERIOR PARTITIONS AND EXTERIOR WALLS

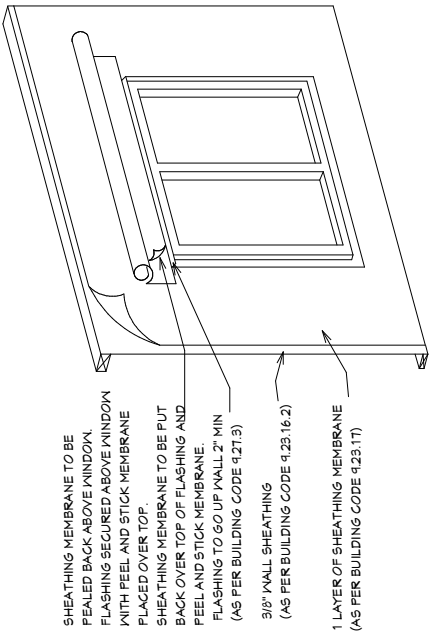
ROOF ABOVE ATTIC
ASPHALT SHINGLES
ROOFING FELT
3/8" OSB SHEATHING
14" BLOWN IN INSULATION
(F.G BATT INSUL. IN VAULTED CEILING)
2"x4" ENGINEERING TRUSS @24" OC
POLYTHENE SHEET
12" GYPSUM BOARD



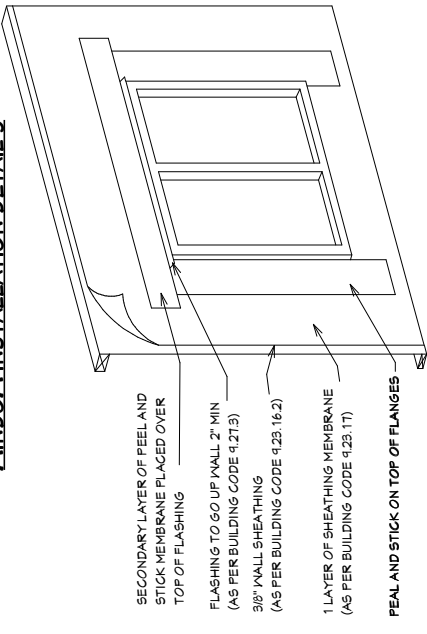
WINDOW INSTALLATION DETAIL-1



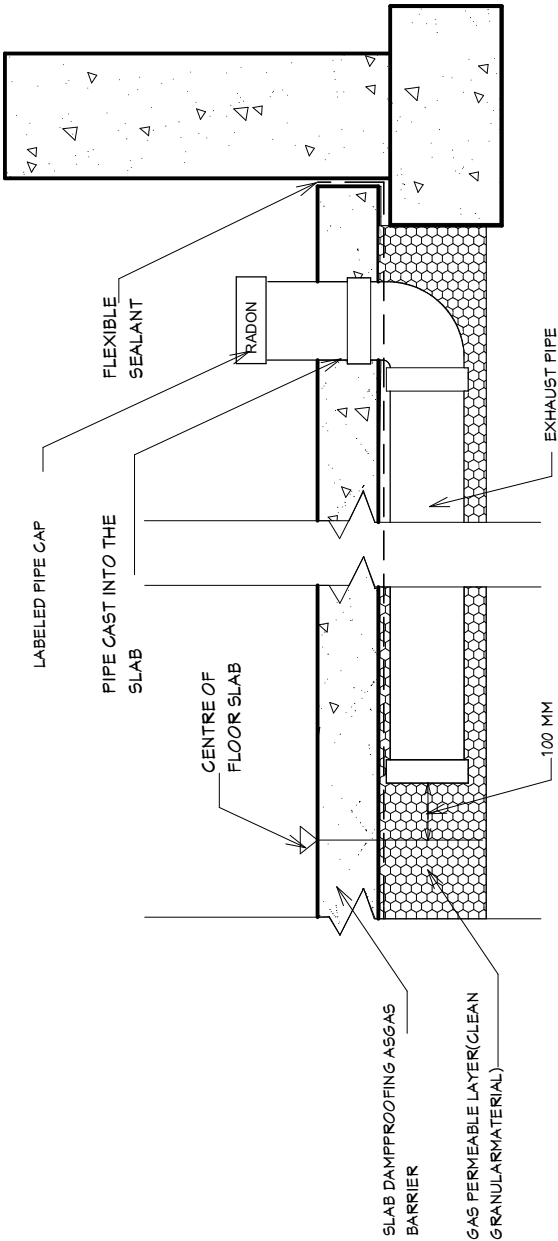
WINDOW INSTALLATION DETAIL-2



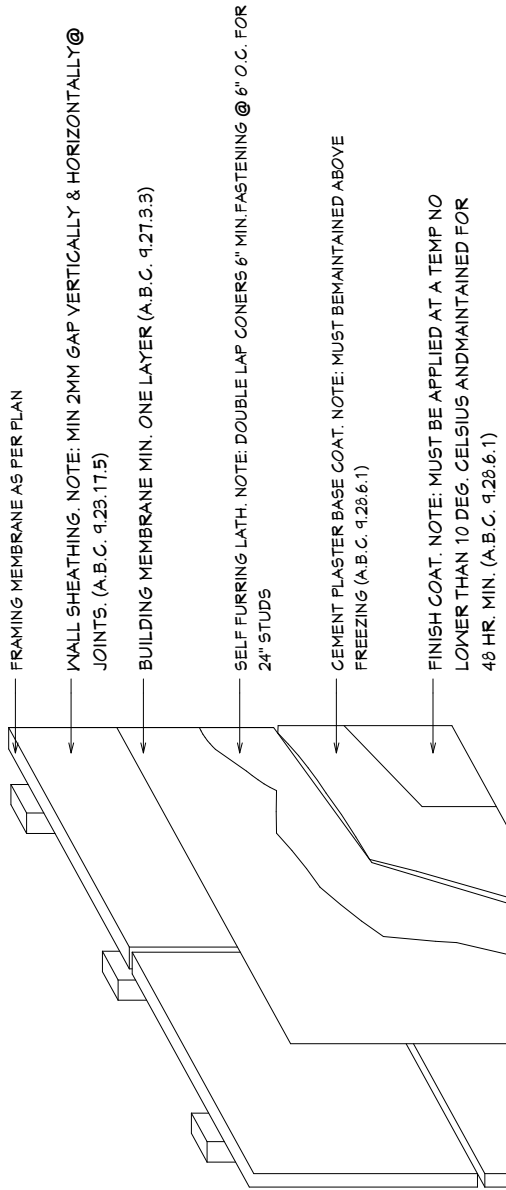
WINDOW INSTALLATION DETAIL-3



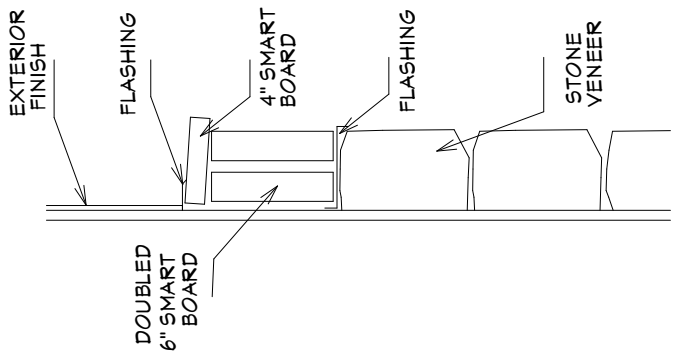
WINDOW INSTALLATION DETAIL-4



SUBFLOOR DEPRESSURIZATION SYSTEM ROUGH-IN



STUCCO APPLICATION DETAIL



BATTEN OVER STONE DETAIL

ISSUED FOR	Revisions	date
1		

SCALE N.T.S.			
DETAILS/NOTES			
ISSUED FOR	Revisions	date	
1			

OWNER

STONECRAFT HOME

826 EDGEFIELD STREET

STRATHMORE - AB

LOT 6- BLOCK 10

MAIN FLOOR : 1003

SECOND FLOOR: 1223

TOTAL SQ.FT. : 2226

COVERED PORCH: 30 SQ.FT.

DECK AREA : 132 SQ.FT

GARAGE: 525 SQ.FT.

ARCHI DESIGN INC.

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Tel: 587.438.5721

ARCHIDESIGN

HOMEOWNER & CONTRACTOR: TO VERIFY ALL DIMENSIONS,STRUCTURAL DETAILS, AND BUILDING CODES, AND GRADE REQUIREMENTS.

GENERAL NOTES

1. ALL STRUCTURAL LUMBER IS TO BE # 2 SPF OR BETTER
2. ALL STUDS ARE TO BE CONSTRUCTION GRADE SPF.
3. WALLS LESS THAN 1.2 M (4'-0") FROM PROPERTY LINE ARE TO HAVE MINIMUM 45 MINUTES FIRE RESISTANCE RATING.
4. ENGRD. ROOF TRUSSES AND FLOOR JOISTS SYSTEM DESIGNS, DIMENSIONS, DETAILS, INSTALLATION ETC. SHALL BE ACCORDING TO MANUFACTURES SPECIFICATIONS AND SHALL BE COMPLETE WITH ALL NECESSARY BLOCKING, HANGERS ETC.
5. ROOF OVERHANG ARE TO BE 18" UNLESS NOTED OTHERWISE.
6. WHERE STEP FOOTING OCCURS THE HORIZONTAL DIMENSION OF EACH STEP SHALL NOT LESS THAN 24" AND THE VERTICAL DIMENSION OF EACH STEP SHALL NOT EXCEED 24".
7. ALL FOOTING ARE TO BE MINIMUM 4' BELOW GRADE.
8. CONSTRUCTION SHALL CONFORM TO THE ALBERTA BUILDING CODE & LOCAL BUILDING BYLAWS.
9. WINDOWS AND DOORS SIZES ARE READ AS : 5040 (5'-0" - 4'-0"). THESE ARE GENERAL SIZES. ACTUAL SIZES AND ROUGH OPENINGS SHALL BE PROVIDED BY THE SUPPLIER.
10. ALL PORCHES AND DECKS ARE TO BE 3.5" BELOW T.O.S UNLESS NOTED OTHERWISE.
11. FINAL LOT GRADES MAY ALTER EXTERIOR APPEARANCE.
12. GENERALLY EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING AND CONCRETE; INTERIOR DIMENSIONS ARE TO FACE OF STUDS AND FACE OF BEAMS , UNLESS NOTED OTHERWISE.
13. SMOKE ALARM TO EACH FLOOR LEVEL AS PER DIVISION B 9.10.14.1.
14. CARBON MONOXIDE ALARM (AT HEIGHT RECOMMENDED BY MANUFACTURER) WITH IN 5M (16'-5") OF BEDROOM DOORS MEASURED ALONG CORRIDORS AS PER DIVISION B 9.32.3.9
15. MINIMUM DOOR SIZE DOOR UTILITY ROOM IS 810MM (2'-8") AS PER DIVISION B 9.5.5.1
16. A DOOR BETWEEN AN ATTACHED GARAGE AND DWELLING UNIT MUST TIGHT FITTING, WEATHER STRIPPED AND EQUIPPED WITH SELF CLOSING DEVICE AS PER DIVISION B 9.10.13.15
17. INSULATED, WEATHER STRIPPED ATTIC ACCESS HATCH WITH MINIMUM AREA 0.32 SQ. M (3.44 SQ.FT.) AND NO DIMENSION LESS THAN (21 ½") AS PER DIVISION B 9.19.2.1
18. 5/8" TYPE X DRYWALL TO INTERIOR SIDE OF ASSEMBLY FOR EXTERIOR WALLS FACING AND WITHIN 1.2M (4'-0") OF PROPERTY LINE AS PER DIVISION B 9.10.15.5
19. 1/2" DRYWALL TO UNDERSIDE OF ENCLOSED PROJECTION WITHIN 1.2M(4'-0") OF PROPERTY LINE AND IS GREATER THAN 0.6M (2'-0") ABOVE FINISHED GROUND LEVEL. AS PER DIVISION B 9.10.15.5
20. NON - VENTED SOFFITS WHEN EAVES PROJECTING WITHIN 1.2M(4'-0") FROM THE PROPERTY LINE. SOFFIT OTHER THAN ALUMINUM OR GALVANIZED STEEL SHALL BE INSTALLED ON A MINIMUM 1/2" WOOD OR GYPSUM SHEATH BACKING. ROOF SOFFIT ARE NOT PERMITTED WITHIN 0.45M(1'-6") OF THE PROPERTY LINE AS PER DIVISION B 9.10.15.5
21. VINYL SIDING ON WALL ASSEMBLIES WITHIN 1.2M(4'-0") OF THE PROPERTY LINE SHALL BE APPLIED OVER 12.MM(1/2") EXTERIOR GRADE GYPSUM BOARD AS PER DIVISION B 9.10.15.5
22. 1070MM(3'-6") HIGH GUARD RAIL WHERE DIFFERENCE IN ELEVATION EXCEEDS 1.8M (6'-0") AS PER DIVISION B. 9.8.8.3
23. 2 - 2" X 10" SPRUCE LINTEL FOR OPENING UNDER 6' - 0". ENGRD. LINTEL FOR OPENING 6' - 0" AND GREATER.
24. ROUGH-IN FOR A SUBFLOOR DEPRESSURIZATION SYSTEM SHALL BE PROVIDED AS PER ABC SUBSECTION 9.13.4.3

HVAC EQUIPMENT & DUCTS
(9.36.3.2)

1. HVAC SYSTEMS SHALL BE SIZED ACCORDANCE WITH GOOD PRACTICE AS DESCRIBED IN SECTION 4.32 AND 4.33.
2. EXCEPT FOR EXHAUST DUCTS, LEADING DIRECTLY TO THE EXTERIOR,DUCTS AND PLENUMS CARRYING CONDITIONED AIR AND LOCATED THE PLANE OF INSULATION SHALL INSULATION SHALL
- A) HAVE ALL JOINTS SEALED AGAINST AIR INFILTRATION AND EXFILTRATION WITH
1. SEALANTS OR GASKETS MADE FROM LIQUIDS,MASTICS OR HEAT APPLIED MATERIALS.
2. MASTIC WITH EMBEDDED FABRIC, OR
3. FOIL FACED BUTYPL TAPE, AND
- B) INSULATED TO SAME LEVEL AS REQUIRED FOR ABOVE GRADE WALLS.
3. DUCTS - UNDER INSULATED FLOOR OVER UNHEATED SPACES

THE UNDERSIDE OF RECTANGULAR DUCTS INSTALLED UNDER AN INSULATED FLOOR OVER AN UNCONDITIONED SPACE IS PERMITTED TO BE INSULATED NOT LESS THAN 2.11(M²:K) . PROVIDED BOTH SIDES OF DUCTS ARE INSULATED TO COMPENSATE HIGHER THERMAL RESISTANCE.

AIR INTAKE AND OUTLET DAMPERS
(9.36.2)

1. EXCEPT AS PROVIDED IN SENTENCE (3) AND (4), EVERY DUCT OR OPENING INTENDED TO DISCHARGE AIR TO THE OUTDOORS SHALL BE EQUIPPED WITH
- A. A MOTORIZED DAMPER OR
- B. A GRAVITY - OR SPRING - OPERATED BACKFLOW DAMPER.
2. EXCEPT AS PROVIDED IN SENTENCE (3) AND (4) AND EXCEPT IN LOCATION WITH FEWER THAN 3500 HEATING DEGREE-DAYS AS LISTED IN APPENDIX "C", EVERY OUTDOOR AIR INTAKE DUCT OR OPENING SHALL BE EQUIPPED WITH A PHOTOGRAPHIC DAMPER THAT REMAINS IN THE "OPEN" POSITION IF THE DAMPER FAILS.
3. WHERE OTHER REGULATIONS ARE IN EFFECT THAT DO NOT PERMIT DAMPERS, INTAKES AND OUTLETS NEED NOT COMPLY WITH SENTENCE (1) AND (2).
4. AIR INTAKES AND OUTLETS SERVING HVAC SYSTEMS THAT ARE REQUIRED TO OPERATE CONTINUOUSLY (EQUIPPED WITH HRV) NEED NOT COMPLY WITH SENTENCE (1) AND (2).

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	METER SOCKET
	PANEL BOX
	CEILING FAN W/ LIGHT
	FLUORESCENT LIGHT FIXTURE
	110V CEILING LIGHT FIXTURE
	110V RECESSED LIGHT FIXTURE
	110V EAVE LIGHT FIXTURE
	110V CHANDELLIER LIGHT FIXTURE
	110V WALL LIGHT FIXTURE
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	DIMMER SWITCH
	OUTDOOR SWITCH
	110V DUPLEX RECEPTACLE
	110V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTED
	110V DUPLEX RECEPTACLE W/ WEATHERPROOF COVER
	110V FLOOR MOUNTED DUPLEX RECEPTACLE
	240V RECEPTACLE
	TELEPHONE JACKS
	TELEVISION JACKS
	DOOR BELL PUSH BUTTON
	THERMOSTAT
	SMOKE DETECTOR
	EXHAUST FAN
	DOOR CHIME
	FIRE ALARM PANEL
	COMPUTER POINT

THERMAL CHARACTERISTICS OF WINDOWS, DOORS AND SKYLIGHTS (ABC 9.36.2.7.)

MAXIMUM U-VALUE OR MINIMUM ENERGY RATING (ER) FOR WINDOWS, DOORS AND SKYLIGHTS AS PER ABC TABLE 9.36.2.7 SHALL BE AS FOLLOWS:

COMPONENT	Max. U-value, W/(m ² :K)	Min. Energy Rating
WINDOWS AND DOORS	1.60	25
SKYLIGHTS	2.7	

U-values for specific products can be determined according to measures referenced in AAMA/WDMA/CSA 1011/5.2/IA440, "NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights." Temperature index (I) is determined according to the Physical test procedure given in CAN/CSA-A440.2/IA440.3, "Fenestration Energy Performance/User Guide to CSA A440.2-09, Fenestration Energy Performance."

Energy Rating (ER) are based on CAN/CSA-A440.2/IA440.3, "Fenestration Energy Performance/User Guide to CSA A440.2-09 , Fenestration Energy Performance.

PERFORMANCE REQUIREMENTS OF WINDOWS, DOORS AND SKYLIGHTS (ABC 9.7.4.3.)

MANUFACTURED AND PRE-ASSEMBLED WINDOWS, DOORS AND SKYLIGHTS AND THEIR INSTALLATION SHALL CONFORM TO:

A) AAMA/WDMA/CSA 1011/5.2/IA440, "NAFS – NORTH AMERICAN FENESTRATION STANDARD/SPECIFICATION FOR WINDOWS, DOORS, AND SKYLIGHTS" (HARMONIZED STANDARD),

B) CSA A44051, "CANADIAN SUPPLEMENT TO AAMA/WDMA/CSA 1011/5.2/IA440, NAFS – NORTH AMERICAN FENESTRATION STANDARD/ SPECIFICATION FOR WINDOWS, DOORS, AND SKYLIGHTS,"

BUILDING CODE FENESTRATION PERFORMANCE CALCULATION. CALCULATIONS BASED ON AAMA/WDMA/CSA 1011/5.2/IA440-08 (NAFS-08) AND CSA A44051-09

LOCATION	CHESTERMERE, AB
TERRAIN TYPE	OPEN
PERFORMANCE CLASS	R
BUILDING HEIGHT	10 M
MINIMUM PERFORMANCE GRADE (PG)	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	A2

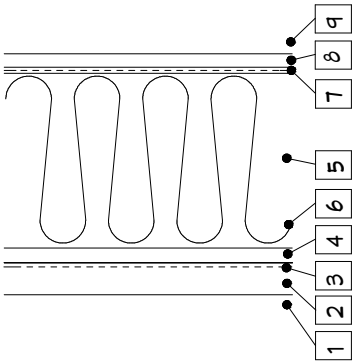
Note: These calculations can be verified at codecalc.fenestrationcanada.ca.

National Building Code (Alberta Edition) 2019 (9.36)

PRESCRIPTIVE PATH		FOUNDATION INSULATION	2.98
CLIMATE ZONE	7A - 5000 DEGREE DAYS	FLOOR ABOVE UNHEATED SPACE	5.02
WALL INSULATION	2.97	FLOOR ABOVE UNHEATED SPACE- GARAGE	4.86
ATTIC INSULATION	8.67	UNHEATED FLOOR ABOVE FROST LINE	1.46

W1 EXTERIOR ABOVE GRADE WALL

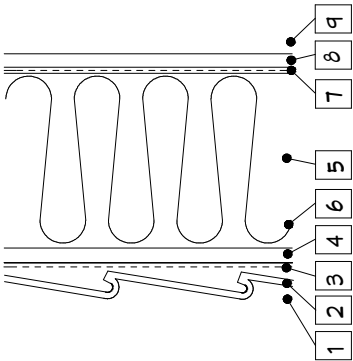
COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 CLADDING *		0.02
3 SHEATHING PAPER		-
4 3/8" OSB SHEATHING		0.043
5 2X6 FRAMING, 24" OC	100	
6 R22 FIBER GLASS BATT INSULATION	(20/1.14)*(80/3.87)	2.67
7 POLYTHENE SHEET		-
8 1/2 GYPSUM BOARD		0.08
9 INTERIOR AIR FILM		0.12
TOTAL EFFECTIVE RSI		3.01
REQUIRED BY ABC 9.36.2.6B RSI		2.97



* CLADDING BY ELEVATION. STUCCO IS ASSUME IN RSI CALCULATION D TO REPRESENT THE LOWEST RSI VALUE

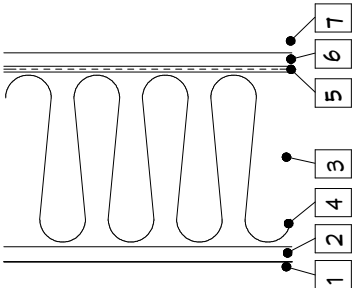
W2 - EXTERIOR ABOVE GRADE TALL WALL -VINYL SIDING

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 VINYL SIDING		0.11
3 SHEATHING PAPER		-
4 3/8" OSB SHEATHING		0.043
5 2X6 FRAMING, 12" OC	100	
6 R24 FIBER GLASS BATT INSULATION	(24.5/1.14)*(15.5/4.23)	2.60
7 POLYTHENE SHEET		-
8 1/2 GYPSUM BOARD		0.08
9 INTERIOR AIR FILM		0.12
TOTAL EFFECTIVE RSI		3.03
REQUIRED BY ABC 9.36.2.6B RSI		2.97



W3 -WALL BETWEEN ATTACHED GARAGE AND HOUSE

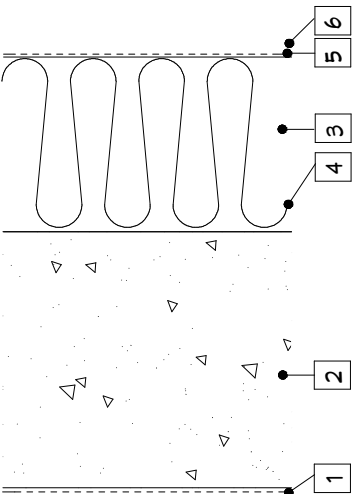
COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 1/2 GYPSUM BOARD		0.08
3 2X6 FRAMING, 24" OC	100	
4 R22 FIBER GLASS BATT INSULATION	(20/1.14)*(80/3.87)	2.67
5 POLYTHENE SHEET		-
6 1/2 GYPSUM BOARD		0.08
7 INTERIOR AIR FILM		0.12
TOTAL EFFECTIVE RSI		2.98
REQUIRED BY ABC 9.36.2.6B RSI AFTER REDUCTION OF 0.16 (ABC 9.36.2.4(4))		2.81



GAS FIRED FURNACE	92% AFUE	HEATING<65.9 KW	CAN/CSA-P.2
NATURAL GAS TANK	67% EF	INPUT<22 KW	CAN/CSA-P.3
FDRW		N/A	
HRV EFFICIENCY		70%	

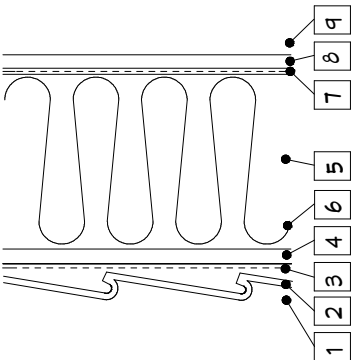
W4 - FOUNDATION UP TO WALL LESS THAN 24" FROM GRADE

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 DAMPPROOFING		-
2 8" CONCRETE WALL		0.08
3 2X6 FRAMING, 24" OC	100	
5 R22 FIBER GLASS BATT INSULATION	(13/1.14)*(87/3.87)	2.99
6 POLYTHENE SHEET		-
7 INTERIOR AIR FILM		0.12
TOTAL EFFECTIVE RSI		3.19
REQUIRED BY ABC 9.36.2.8B RSI		2.98



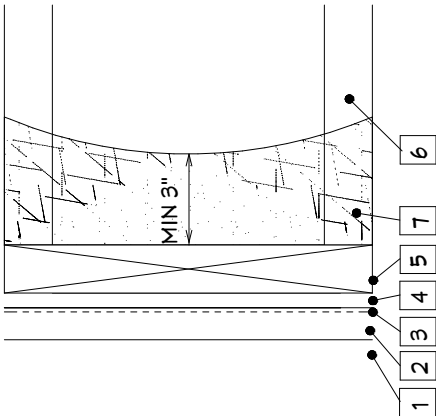
W6 - BASEMENT WALL MORE THAN 24" ABOVE GRADE/WALK OUT WALL

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 VINYL SIDING		0.11
3 SHEATHING PAPER		-
4 3/8" OSB SHEATHING		0.043
5 2X6 FRAMING, 16" OC	100	
6 R22 FIBER GLASS BATT INSULATION	(23/1.14)*(77/3.87)	2.55
7 POLYTHENE SHEET		-
8 1/2 GYPSUM BOARD		0.08
9 INTERIOR AIR FILM		0.12
TOTAL EFFECTIVE RSI		2.98
REQUIRED BY ABC 9.36.2.6B RSI		2.97



RM - RIM JOIST SPACE

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 CLADDING *		0.02
3 SHEATHING PAPER		-
4 3/8" OSB SHEATHING		0.043
5 38 MM (1.5 IN) RIM BOARD		0.33
6 1 JOIST, 14" OC	100	
7 3" SPRAY FOAM INSUL. MED. DENSITY**	(7.5/2.56)*(42.5/2.70)	2.69
TOTAL EFFECTIVE RSI		3.16
REQUIRED BY ABC 9.36.2.6B RSI		2.97



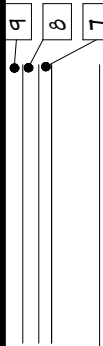
* STUCCO IS ASSUMED TO REPRESENT THE LOWEST RSI VALUE

** 3" SPRAY FOAM INSUL. CAN BE REPLACED WITH F.G. BAT INSULATION. R20 SUBJECT TO HOUSEWRAP THE JOIST TO INSURE CONTINUITY OF AIR TIGHTNESS

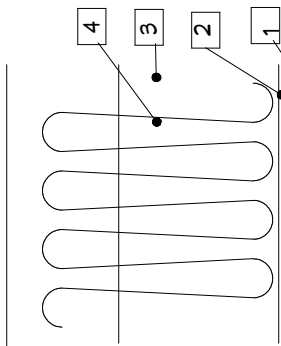
ISSUED FOR	Revisions	date
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F1 -FLOOR OVER UNHEATED SPACE(GARAGE)

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 1/2" GYPSUM BOARD		0.08
3 1 JOIST, 14" OC AIR SPACE		0.32
5 2X6 FRAMING, 24" OC	100	4.35
6 R35 FIBER GLASS BATT INSULATION (10/1.19)+(90/6.16)		
5 3/8" OSB SHEATHING		0.043
6 FLOOR FINISH		-
7 INTERIOR AIR FILM		0.16
TOTAL EFFECTIVE RSI		5.03
REQUIRED BY ABC 9.36.2.6B RSI AFTER REDUCTION OF 0.16 (9.36.2.4.(4))		4.86

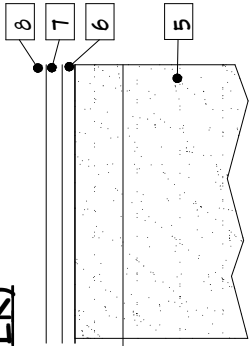


6

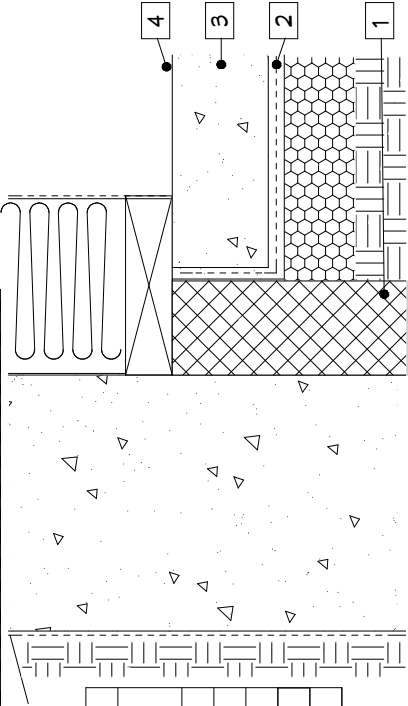


F2 -FLOOR OVER UNHEATED SPACE(CANTILEVER)

COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 NON VENTED ALUMINUM SOFFIT		-
3 SHEATHING PAPER		
4 1 JOIST, 14" OC	100	4.89
5 8" SPRAY FOAM INSULLOW DENSITY (7.5/2.56)+(92.5/5.28)		
6 3/8" OSB SHEATHING		0.043
7 FLOOR FINISH		-
8 INTERIOR AIR FILM		0.16
TOTAL EFFECTIVE RSI		5.17
REQUIRED BY ABC 9.36.2.6B		5.02

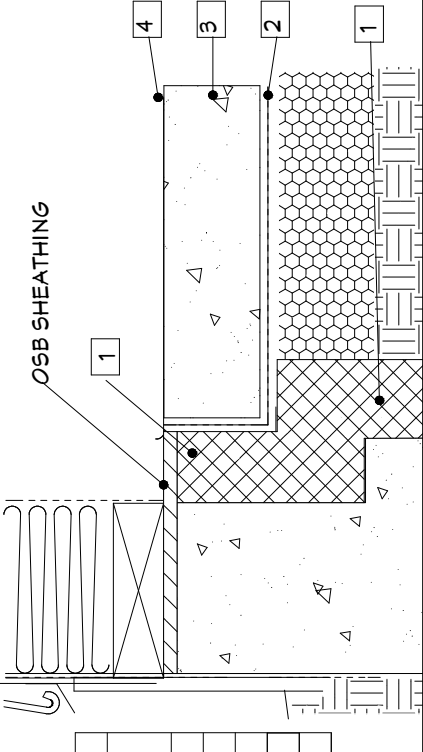


F3 -UNHEATED FLOOR BELOW GRADE AND ABOVE FROST LINE



	COMPONENT	RSI eff
1	MIN 3" THICK, 48" DEEP OR TO FOOTING EXPANDED POLYSTYRENE (EPS) TYPE 1	1.98
2	POLYTHENE SHEET	-
3	3" CONCRETE FLOOR	-
4	INTERIOR AIR FILM	-
	TOTAL EFFECTIVE RSI	1.98
	REQUIRED BY ABC 9.36.2.8B RSI	1.96

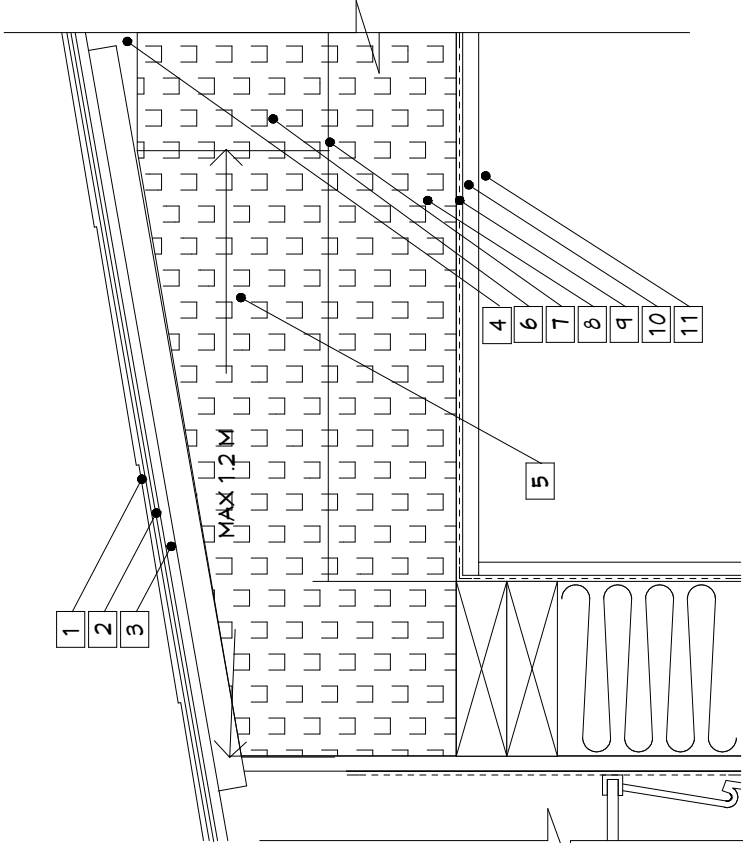
F3.B -UNHEATED FLOOR ABOVE GRADE AND ABOVE FROST LINE



	COMPONENT	RSI eff
1	MIN 3" THICK, 48" DEEP OR TO FOOTING EXPANDED POLYSTYRENE (EPS) TYPE 1	1.98
2	POLYTHENE SHEET	-
3	3" CONCRETE FLOOR	-
4	INTERIOR AIR FILM	-
	TOTAL EFFECTIVE RSI	1.98
	REQUIRED BY ABC 9.36.2.8B RSI	1.96

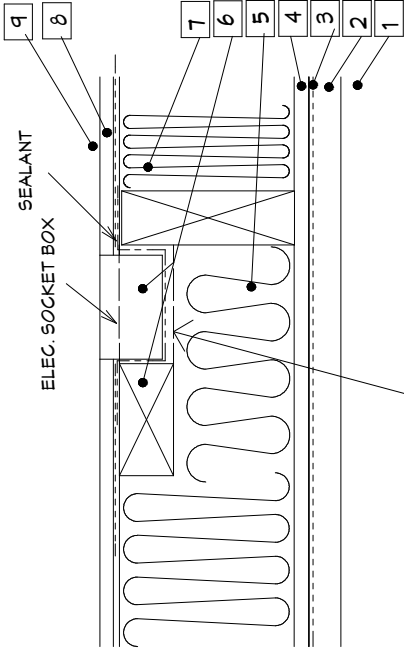
R1 -CEILING BELOW ATTIC

COMPONENT		FRAME/CAVITY RSI
1	ASPHALT SHINGLES	-
2	ROOFING FELT	-
3	3/8" OSB SHEATHING	-
4	OUT SIDE AIR FILM	0.03
5	MIN. R20 BLOW-IN INSULATION FOR MAX 48"	
FROM EXTERIOR OF WALL		
6	10.5" BLOW IN INSULATION (CELLULOSE)	6.67
7	2"x4" ENGINEERING TRUSS @24' OC	100
8	3.5" BLOW IN INSULATION (CELLULOSE)	1.83
9	POLYTHENE SHEET	(11/0.76)+(84/2.22)
10	1/2" GYPSUM BOARD	-
11	INTERIOR AIR FILM	0.08
TOTAL EFFECTIVE RSI		0.11
REQUIRED BY ABC 9.36.2.6B RSI		8.72
		8.67



- * BLOW IN INSULATION CAN BE REPLACED WITH F.G. BAT INSULATION. R12 FOR CAVITY (BETWEEN TRUSSES) AND R40 ABOVE CAVITY.
- ** "CELLULOSE BLOW IN INSULATION CAN BE REPLACED WITH FIBER GLASS BLOW IN INSULATION 3.5" FOR CAVITY (BETWEEN TRUSSES) AND 14.5" ABOVE CAVITY.

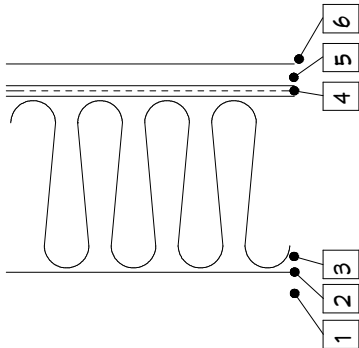
TYPICAL EXTERIOR ABOVE GRADE WALL OUTLET/SWITCH PLAN VIEW



COMPONENT		RSI eff
1	EXTERIOR AIR FILM	0.03
2	CLADDING *	0.02
3	SHEATHING PAPER	-
4	3/8" OSB SHEATHING	0.043
5	R14 FIBER GLASS BATT INSULATION	2.46
6	2X4 BLOCKING/ELEC. SOCKET BOX *	0.32
7	POLYTHENE SHEET (AIRVAPOR BARRIER BOOT	-
8	1/2 GYPSUM BOARD	0.08
9	INTERIOR AIR FILM	0.12
TOTAL EFFECTIVE RSI		3.12
REQUIRED BY ABC 9.36.2.6B RSI		2.97

- * 2X4 BLOCKING IS CONSIDERED IN RSI CALCULATIONS TO REPRESENT THE LOWEST RSI VALUE

SK- SKYLIGHT SHAFT



COMPONENT	FRAME/CAVITY RSI	RSI eff
1 EXTERIOR AIR FILM		0.03
2 2X6 FRAMING, 24" OC	100	2.8
3 R24 FIBER GLASS BATT INSULATION (20/1.19)+(80/4.23)		-
4 POLYTHENE SHEET		0.08
5 1/2 GYPSUM BOARD		0.12
6 INTERIOR AIR FILM		3.03
TOTAL EFFECTIVE RSI		2.97
REQUIRED BY ABC 9.36.2.6B RSI		

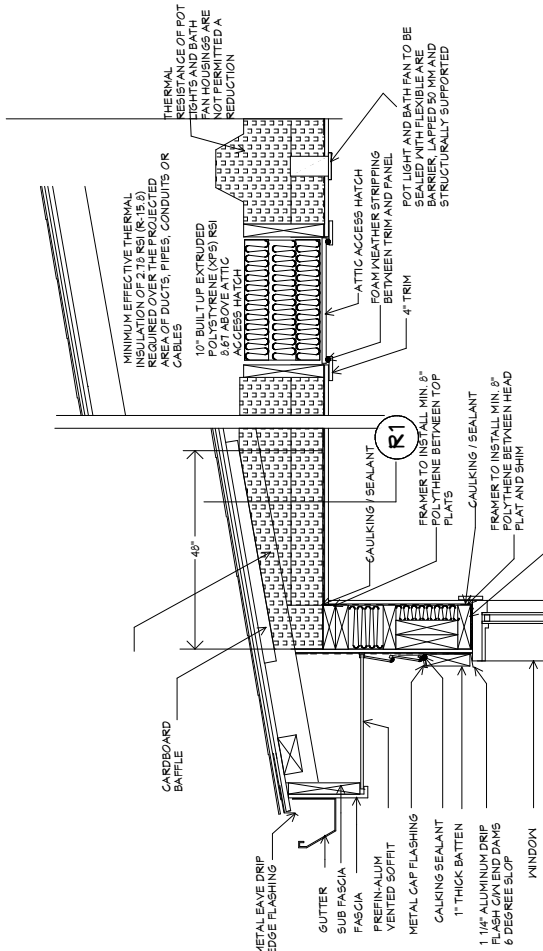
ISSUED FOR	Revisions	date
1		

STONECRAFT HOME
826 EDGEFIELD STREET
STRATHMORE - AB
LOT 6- BLOCK 10

MAIN FLOOR : 1003
SECOND FLOOR: 1223
TOTAL SQ.FT. : 2226
COVERED PORCH: 30 SQ.FT.
DECK AREA : 132 SQ.FT
GARAGE: 525 SQ.FT.

INSULATION CONTINUITY GENERAL NOTES - ABC 9.36.2.5

- A REDUCTION IN THE THERMAL RESISTANCE OF THE CEILING ASSEMBLY IN ATTICS UNDER SLOPED ROOFS IS PERMITTED FOR A LENGTH OF NO GREATER THAN 1200MM BUT ONLY TO THE EXTENT IMPOSED BY THE ROOF SLOPE AND MINIMUM VENTING CLEARANCE. PROVIDED THE NOMINAL THERMAL RESISTANCE OF THE INSULATION DIRECTLY ABOVE THE EXTERIOR WALL IS NOT LESS THAN R-20 / RSI-3.52 (M²K)/M.
- THE ATTIC HATCHES AND ALL PLUMBING/ELECTRICAL PENETRATIONS INTO THE ATTIC SPACE ALONG ANY GAPS, SPACES, PENETRATIONS, IRREGULARITIES THAT COULD ALLOW LEAKAGE MUST BE SEALED
- WHEN AN INTERIOR ELEMENT PENETRATES AN EXTERIOR ELEMENT AND BREAKS THE PLANE OF INSULATION, THE INTERIOR ELEMENT SHALL BE:
 - INSULATED ON BOTH SIDES FOR A LENGTH 4X THE THICKNESS OF THE PENETRATED ASSEMBLY, OR
 - INSULATED WITHIN THE PLANE OF INSULATION OF THE PENETRATED ELEMENT TO AN EFFECTIVE THERMAL RESISTANCE NOT LESS THAN 60% OF THAT REQUIRED FOR THE PENETRATED ELEMENT OR
 - INSULATED WHITEN ITSELF TO AN EFFECTIVE THERMAL RESISTANCE NOT LESS THAN THE REQUIRED FOR THE PENETRATED ELEMENT.
- MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS PLACED WITHIN AN EXTERIOR WALL MUST BE INSULATED BEHIND TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED FOR THE ABOVE OR BELOW GRADE WALL ASSEMBLY.
- A FOUNDATION WALL IS CONSIDERED TO BE BELOW GRADE FOR THE PURPOSE OF USING BELOW GRADE RSI WHEN THE TOP OF THE SECTION OF FOUNDATION IS ON AVERAGE LESS THAN 600MM(24") ABOVE THE ADJOINING GROUND LEVEL, WHERE THE WALL IS GREATER THAN 600MM, THE ABOVE-GROUND PORTION OF WALL SHALL BE INSULATED TO THE ABOVE GRADE REQUIREMENTS.
- JOINTS AND JUNCTIONS BETWEEN WALLS AND OTHER BUILDING ENVELOP COMPONENTS SHALL BE INSULATED IN A MANNER THAT PROVIDES AN EFFECTIVE THERMAL RESISTANCE THAT IS NOT LESS THAN THE LOWER ON MINIMUM VALUES REQUIRED FOR THE RESPECTIVE ADJOINING COMPONENTS.
- AIR TIGHTNESS GENERAL NOTES - ABC 9.36.2.9 AND 9.36.2.10
 - AIR BARRIERS TO BE CONTINUOUS.
 - ACROSS CONSTRUCTION, CONTROL AND EXPANSION JOINTS.
 - ACROSS JUNCTIONS BETWEEN DIFFERENT BUILDING MATERIALS AND ASSEMBLIES.
 - AROUND PENETRATIONS THROUGH ALL BUILDING ASSEMBLIES.
- SEALING IS REQUIRED BETWEEN 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.
- WINDOWS, DOORS AND SKYLIGHTS AND THEIR COMPONENTS SHALL COMPLY WITH MINIMUM AIR LEAKAGE REQUIREMENT STATED IN NAFS AND CSA A440S1.
- WHERE THE AIR TIGHT MATERIAL USED IN THE AIR BARRIER SYSTEM IS INSTALLED TOWARDS THE EXTERIOR OF BUILDING ENVELOP, ITS LOCATION AND PROPERTIES SHALL CONFORM TO 9.25.5
- WHERE THE AIR BARRIER SYSTEM CONSIST OF FLEXIBLE SHEET MATERIAL, ALL JOINTS SHALL BE LAPPED NOT LESS THAN 50MM, SEALED AND STRUCTURALLY SUPPORTED.
- WHEN POLY BOOTS ARE USED ON EXTERIOR WALLS AND CEILINGS FOR ELECTRICAL BOXES AND POT LIGHTS THEY MUST BE SEALED TO THE AIR / VAPOR BARRIER AND STRUCTURALLY SUPPORTED.
- CANTILEVERED FLOORS AND WALL JUNCTIONS REQUIRE CONTINUOUS AIR BARRIER.
- JUNCTIONS BETWEEN THE FLOOR AND RIM JOIST AND RIM JOIST TO FOUNDATION MUST BE SEALED.

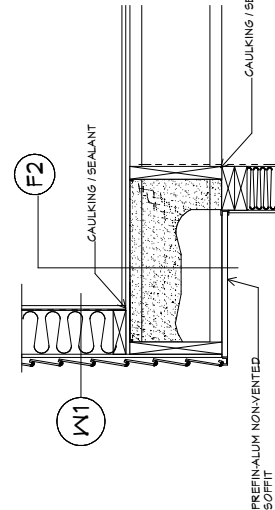


SECOND FLOOR

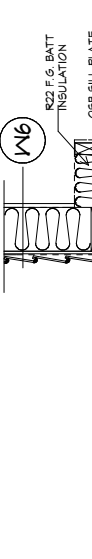
CAULKING SEALANT
1 1/4\"/>

CAULKING / SEALANT

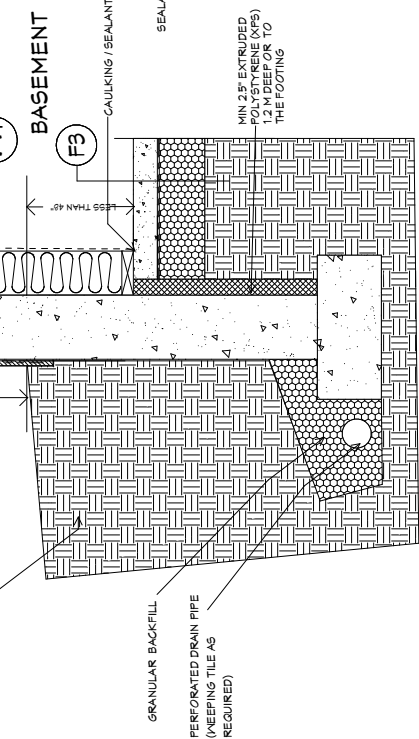
MAIN FLOOR



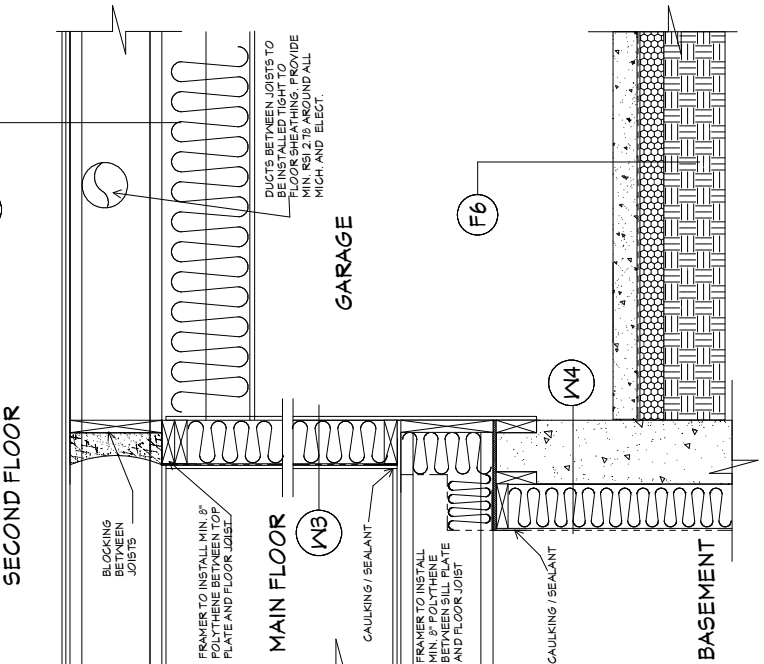
CANTILEVER DETAIL



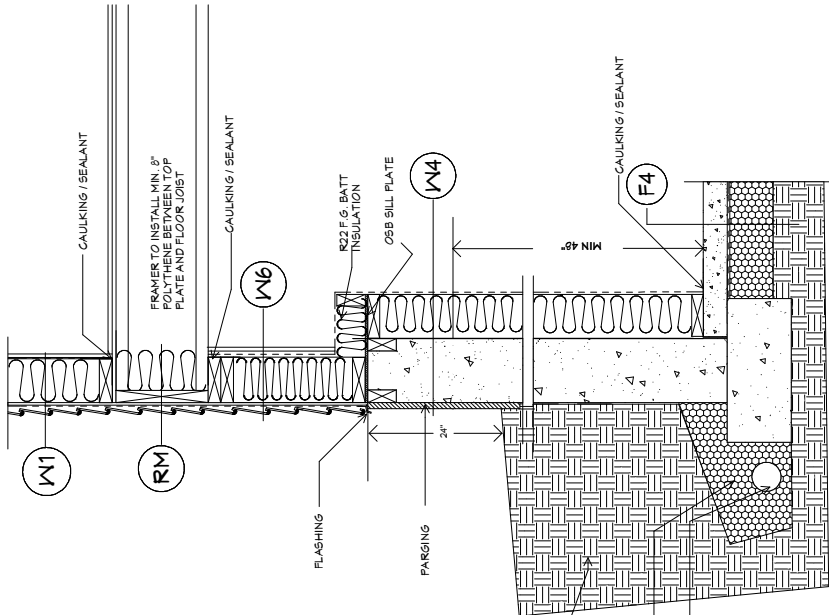
BASEMENT



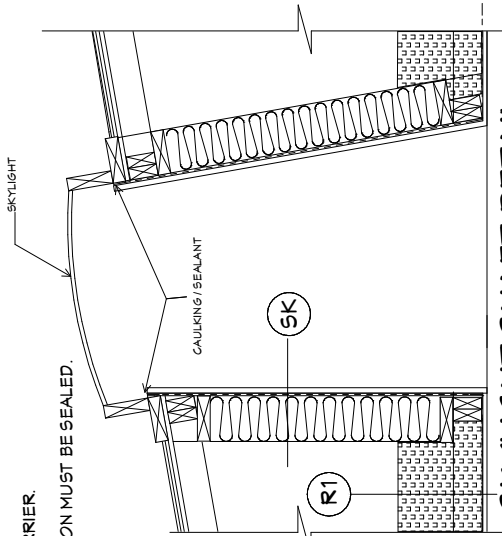
WALL SECTION - BASEMENT SLAB BELOW FROST LINE



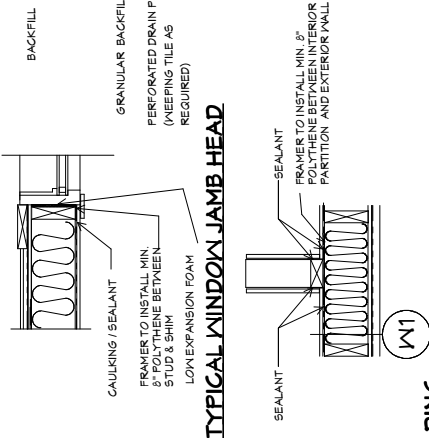
WALL SECTION- UN-CONDITIONED SPACE (GARAGE)



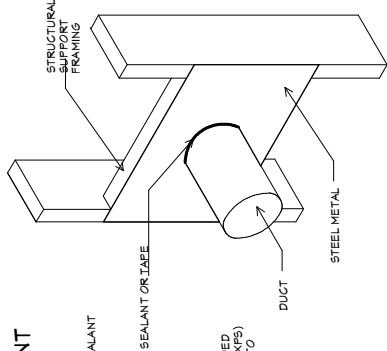
WALL SECTION - TOP OF BASEMENT WALL MORE THAN 24\"/>



SKYLIGHT SHAFT DETAIL



DUCTS PENETRATE THE BUILDING TYPICAL INT.WALL/EXT. WALL ENVELOPE DETAIL



WALL SECTION - BASEMENT SLAB ABOVE FROST LINE