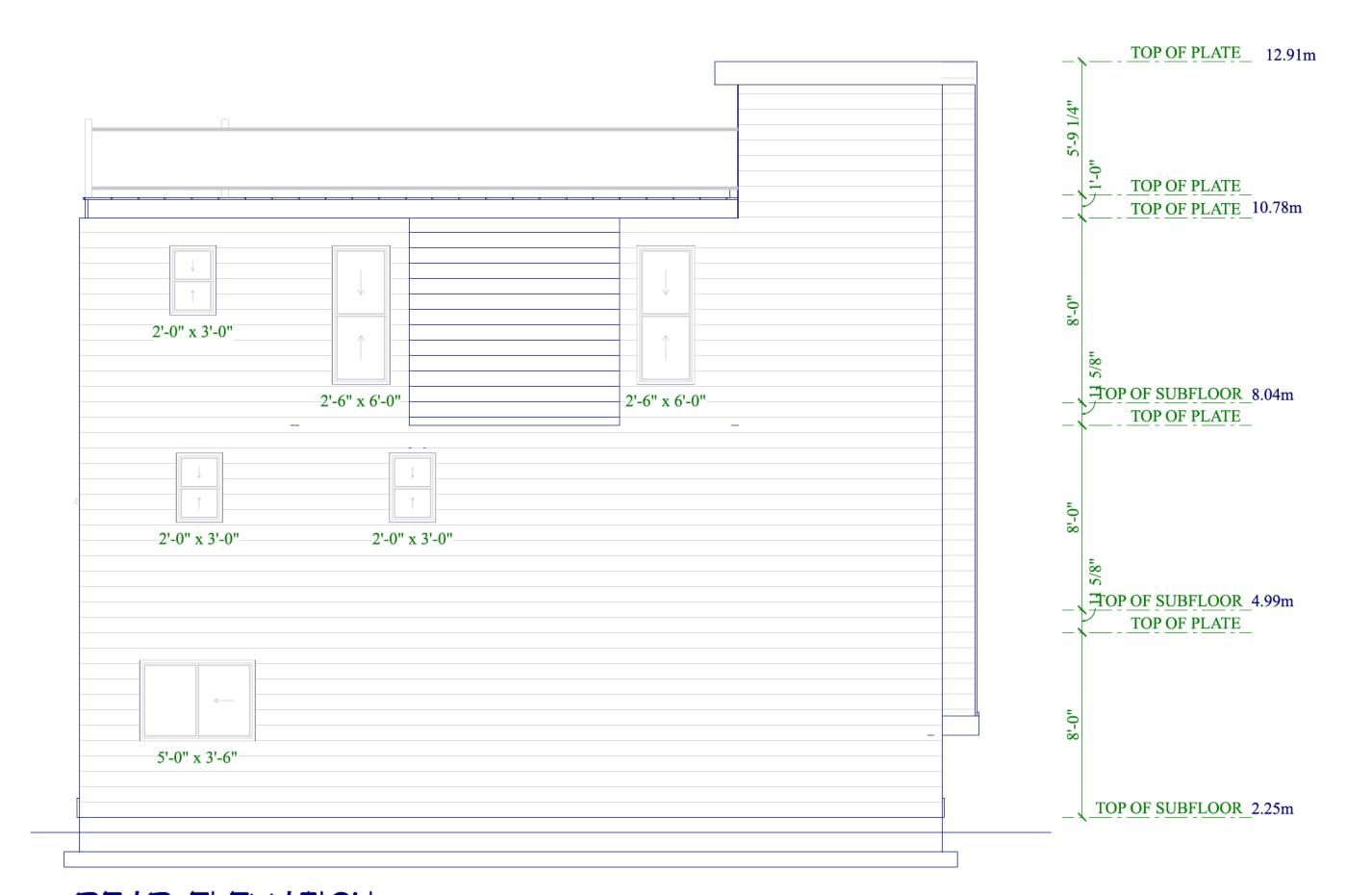
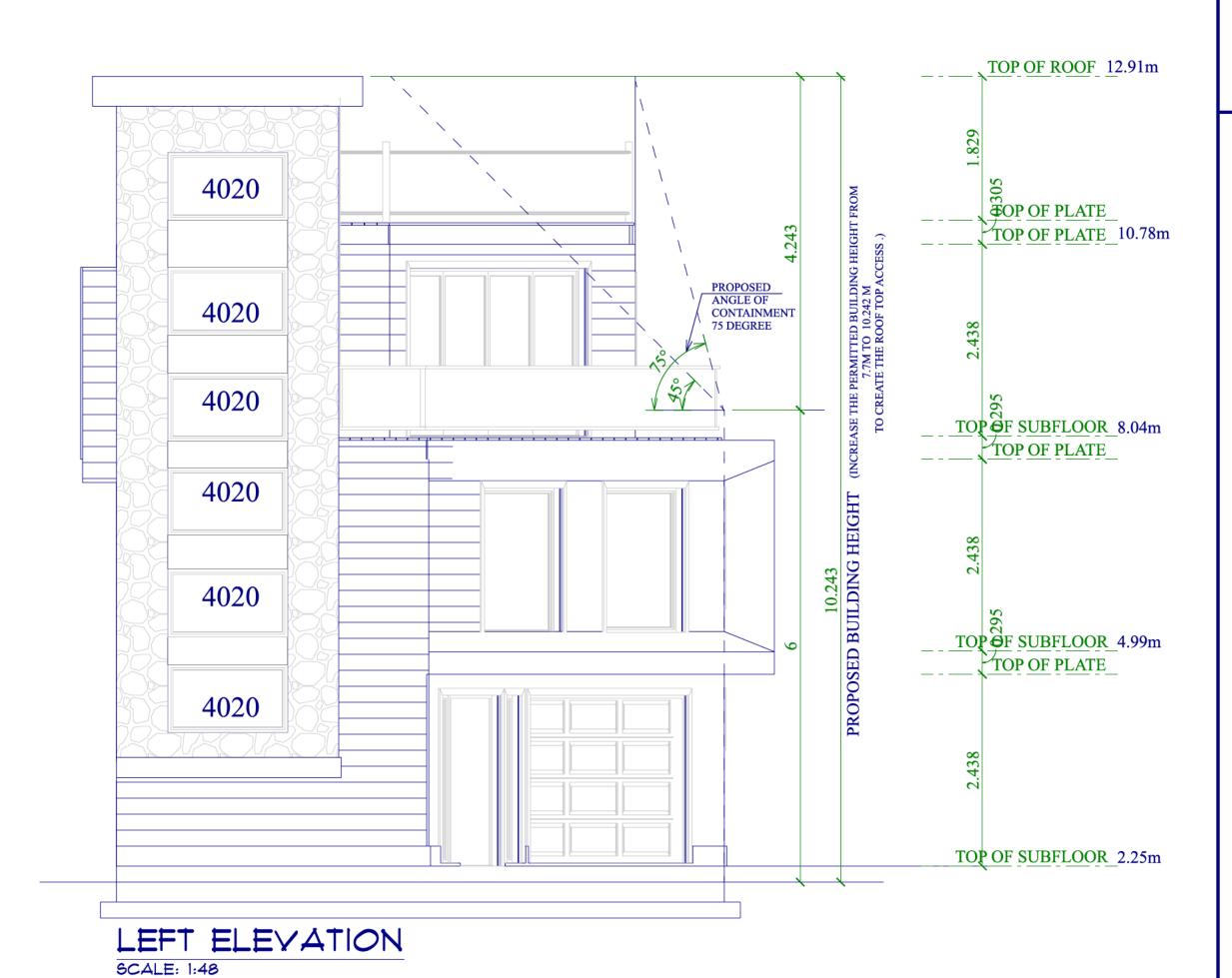


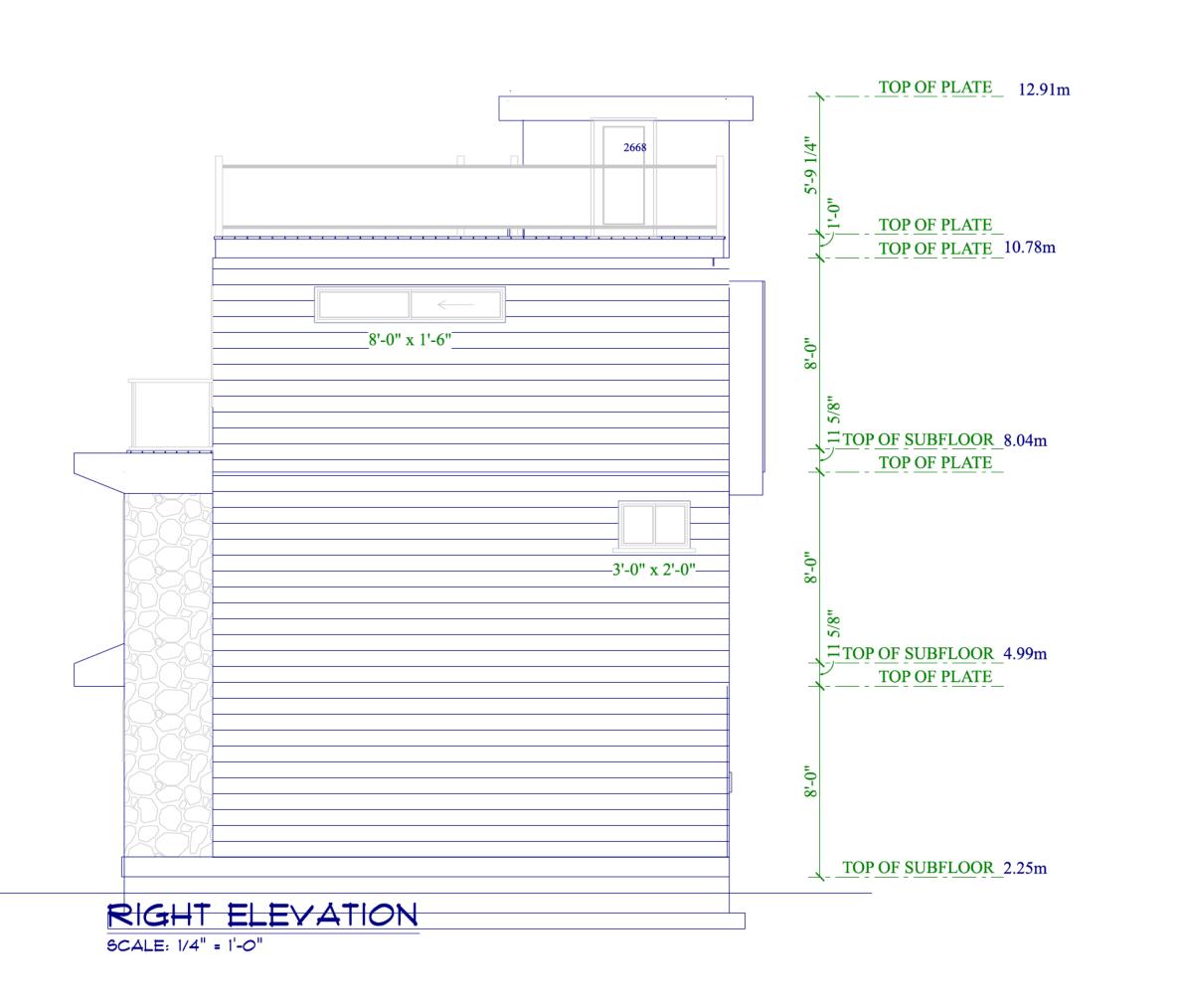
FRONT ELEVATION SCALE: 1/4" = 1'-0"



REAR ELEVATION

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





SHEET TITLE:

ELEVATION

GREEN CLOVER

778.889.0002

SITE ADDRESS:
14737 MARINE DRIVE,
WHITEROCK,

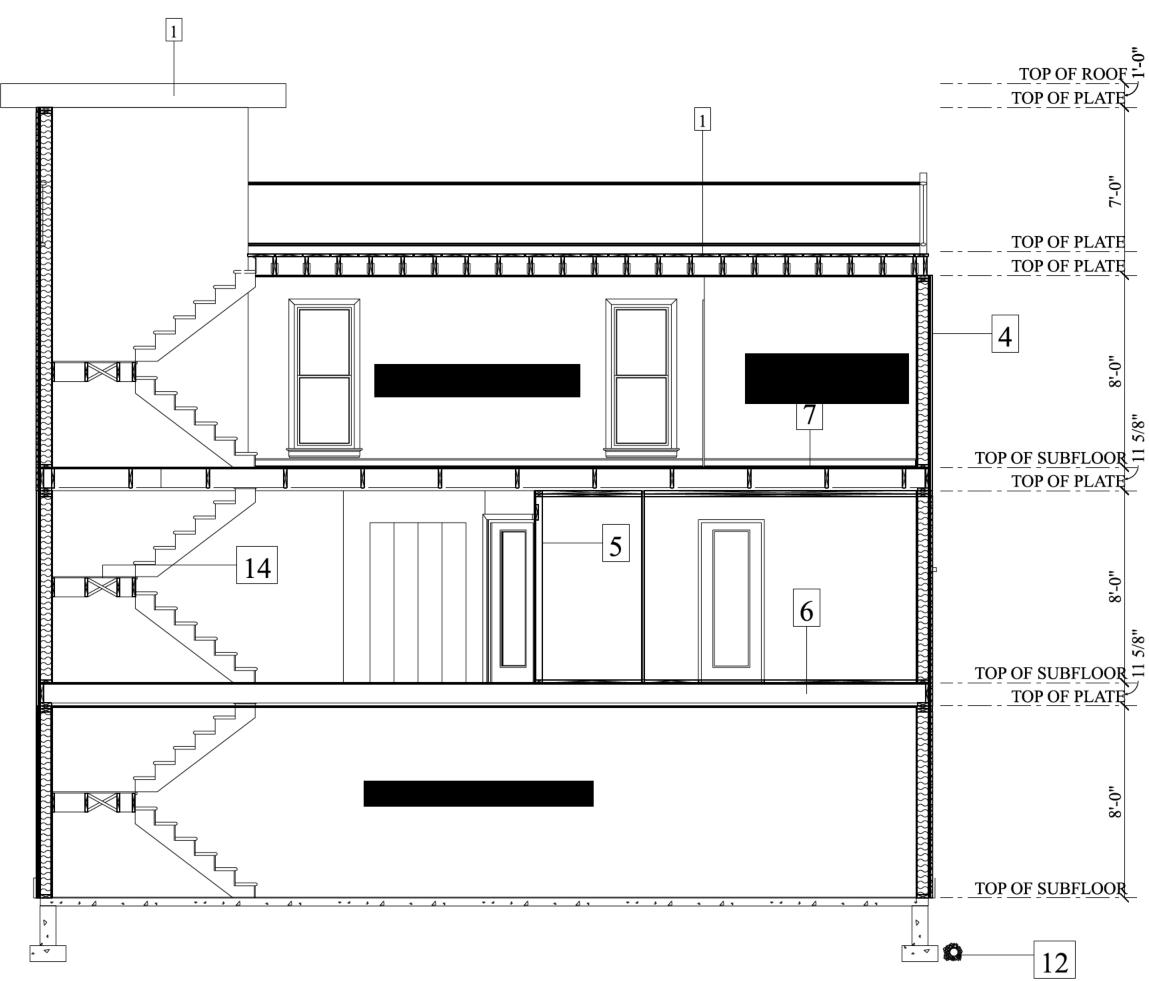
OWNER NAME :

CONTACT # :

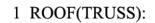
DATE:

October 6, 2023

SHEET#



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



2 CEILING: MIN R-40 BATT OR LOOSE-FILL INSULATION MIN 6 MIL POLY VAPOUR BARRIER 5/8" GYPSUM BOARD

3. FASCIA/SOFFIT ALUMINUM GUTTERS 2X6 FASCIA BOARD VENTED ALUM OR VINYL SOFFIT (NOTE: 3 PROVIDE INSULATION BAFFLES BETWEEN EACH TRUSS W/MIN 2" CLEAR AIRSPACE)

4 EXTERIOR WALL: FINISH MATERIAL - SEE ELEVATION BUILDING PAPER 3/8" PLYWOOD SHEATHING R-20 BATT INSULATION 2 x 6 STUDS @ 16" O.C. MIN 6 MIL POLY V.B. 1/2" GYPSUM BOARD

5 INTERIOR PARTITION: 2X4 STUDS @ 16" O.C. (OR AS NOTED) 1/2" GYPSUM BOARD -BOTH SIDES

6 MAIN FLOOR: FINISH FLOORING 5/8" T&G PLYWOOD SUBFLOOR 2X12 FLOOR JOISTS @ 24" O.C. (OR AS NOTED) 2X2 CROSS BRIDGING @ 6'-10" O.C. MAX 1/2" GYPSUM BOARD

7 UPPER FLOOR: FINISH FLOORING 5/8" T&G PLYWOOD SUBFLOOR 2X12 FLOOR JOISTS @ 24" O.C. (OR AS NOTED) 2X2 CROSS BRIDGING @ 6'-10" O.C. MAX 1/2" GYPSUM BOARD

8. BASEMENT FLOOR: 3.1/2" CONCRETE SLAB FLOOR 6 MIL POLY V.B. 6" MIN COMPACT SAND OR GRAVEL FILL

9. EXTERIOR FOUNDATION WALL:ENGINEERED 2 COATS ASPHALT EMULSION - APPLY TO EXTERIOR PERIMETER UP TO GRADE 8" CONCRETE FOUNDATION WALL (OR AS NOTED) EXPANDED POLYSTYREN INSULATION - TO TOP OF FTG. 24"X8" CONCRETE FTG. BASEMENT WALLS TO HAVE FULL HEIGHT INSULATIO

10 INTERIOR FOUNDATION WALL: 2X6 STUDS @ 16" O.C.(OR AS NOTED) 6" CONCRETE CURB 18"X6" CONCRETE FOOTIN

11 PLATE TO FOUNDATION CONNECTION: 2X6 (OR 2X4 AS REQ'D) SILL PLATE 6MIL POLY OR 45# FELT DAMP-PROOFING 1/2" DIA ANCHOR BOLTS @ 4'-0" O.C. MAX

12. DRAINAGE: 4" DRAIN TILE

12" MIN DRAIN ROCK

13 STAIRS: RUN -9.1/2" NOSING -1" TREAD -10.1/2" RISE -7.3/4" HANDRAIL -2'-8" H. HEADROOM -6'-8" H. MIN

14. STAIRS: RUN -9.1/2" NOSING -1" TREAD -10.1/2" RISE -7.1/2" HANDRAIL -2'-8" H. HEADROOM -6'-8" H. MIN.

15 . GARAGE FLOOR: 4" CONCRETE SLAB FLOOR 6X6 6/6 WWM REINF CLEAN, COARSE AND GRANULAR FILL COMPACTED EVERY 1'-0" FROM SOLID BEARING TO UNDERSIDE OF GARAGE SLAB

CLOVER 778.889.0002

CROSS SHEET TITLE:

14737 MARINE DRIVE WHITEROCK, SITE ADDRESS:

OWNER NAME:

SHEET#

DATE: October 6, 2023

SHEET#

* FOUNDATION TO SILL PLATE AND RIM JOISTS

MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 4.67 (R-26.5 2×10 JOISTS @ 12" O.C.				
ASSEMBLY DESCRIPTION: - CERAMIC TILE - 1/2" PLYWOOD SUBFLOOR - 5/8" T&G D.FIR PLYWOOD SUBFLOOR - 2X10 JOISTS @ 12" O.C R-31 FIBREGLASS BATT INSULATION IN CAVITIES - 1/2" GYPSUM BOARD OVER UNHEATED SPACE				
CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - CERAMIC TILE - 1/2" PLYWOOD SUBFLOOR - 5/8" T&G D.FIR PLYWOOD SUBFLOOR - 1/2" GYPSUM BOARD - EXTERIOR AIR FILM	0.16 0.005 0.109 0.172 0.08 0.03 R&I 0.556 (R-3.15)			
CAVITY RSI (PARALLEL) 100 14.5 1.9975 + 85.5 5.46	R9I 4.36 (R-24.72)			
TOTAL EFFECTIVE INSULATION VALUE	RSI 4.916 (R-27.87)			

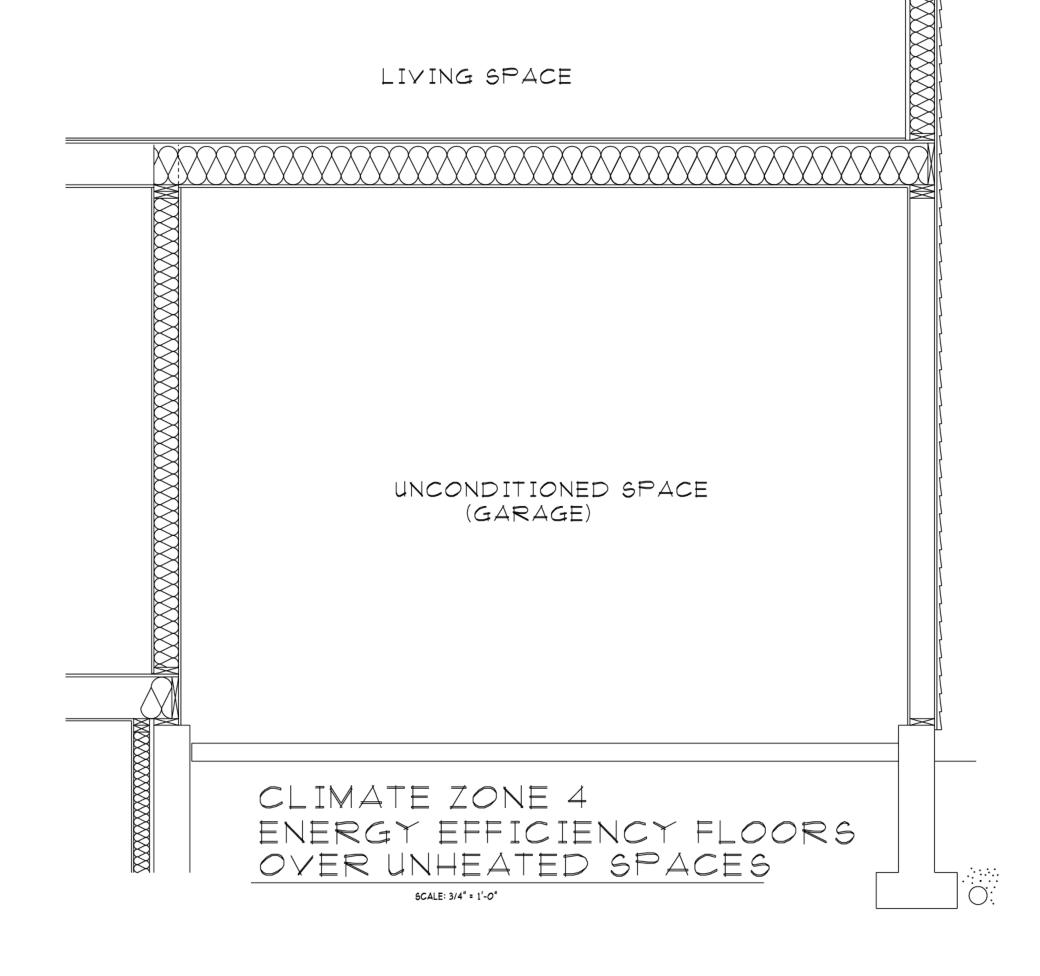
FLOORS OVER UNHEATED SPACES

FLOORS OVER UNHEATED SPACES (CARPET FLOORING)

(CARPET FLOORING)					
	UM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 4.67 (R-26. 2×10 JOISTS @ 12" O.C.				
ASSEMBLY DESCRIPTION: - CARPET WITH FIBROUS PAD - 5/8" T&G D.FIR PLYWOOD SUBFLOOR - 2X10 JOISTS @ 12" O.C. - R-28 FIBREGLASS BATT INSULATION IN CAVITIES - 1/2" GYPSUM BOARD OVER UNHEATED SPACE					
CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - CARPET WITH FIBROUS PAD - 5/8" TEG D.FIR PLYWOOD SUBFLOOR - 1/2" GYPSUM BOARD - EXTERIOR AIR FILM	0.16 0.37 0.172 0.08 0.03 RSI 0.812 (R-4.60)				
CAVITY RSI (PARALLEL) 100 14.5 + 85.5 1.9975 + 4.93	RSI 4.06 (R-23.02)				
TOTAL EFFECTIVE INSULATION VALUE	RSI 4.872 (R-27.62)				

FLOORS OVER UNHEATED SPACES

(HARDWOOD FLOORING)					
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 4.67 (R-26 2×10 JOISTS @ 12" O.C.					
ASSEMBLY DESCRIPTION: - HARDWOOD FLOORING - 5/8" T&G D.FIR PLYWOOD SUBFLOOR - 2X10 JOISTS @ 12" O.C. - R-31 FIBREGLASS BATT INSULATION IN CAVITIES - 1/2" GYPSUM BOARD OVER UNHEATED SPACE					
CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - HARDWOOD FLOORING - 5/8" T&G D.FIR PLYWOOD SUBFLOOR - 1/2" GYPSUM BOARD - EXTERIOR AIR FILM	0.16 0.12 0.172 0.08 0.03 RSI 0.562 (R-3.19)				
CAVITY RSI (PARALLEL) 100 14.5 + 85.5 1.9975 + 5.46	RSI 4.36 (R-24.72)				
TOTAL EFFECTIVE INSULATION VALUE	R6I 4.922 (R-27.91)				



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

ALL JOINTS AT THE TRANSITION BETWEEN THE FOUNDATION WALL AND THE ABOVE GRADE WALL MUST BE MADE AIR-TIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS, OR COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL

* INTERIOR WALL 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 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

CANTILEYERED 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 JUNCTIONS 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 MATERIAL IN THE WALL AND THE WINDOW. THE REQUIREMENT ALSO APPLIES TO DOORS AND SKYLIGHTS

* MECHANICAL FLUES AND CHIMNEYS

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 PENETRATE 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 AIRTIGHTNESS 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 JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS 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 COMPONENT WITH AN AIR BARRIER MATERIAL AND SEALING IT TO THE ADJACENT AIR BARRIER MATERIAL

ENERGY EFFICIENCY REQUIREMENTS
THIS HOME IS DESIGNED TO COMPLY WITH ENERGY EFFICIENCY
REQUIREMENTS AND VALUES USING THE PRESCRIPTIVE METHOD FOR

CLIMATE ZONE 4 - LOWER MAINLAND AND SOUTHERN VANCOUVER ISLAND WITH NO H.R.V. (BCBC 2018LATEST EDITION)

SPECIFIC REQUIREMENTS

* EFFECTIVE INSULATION OF CEILINGS, 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

* 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 SYSTEMS IS LOCATED WITHIN THE THERMAL ENCLOSURE OR ARE FULLY INSULATED

* HYAC 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 HRY/DEHUMIDIFIER

* HYAC 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

TEMPERATURE CONTROLS AS PER SECTION 9.36.3.6

* 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 CELSIUS

Note: Regulations contained within the most current edition of the BC Building Code including any subsequent amendments, and code interpretation by building jurisdictions, shall take precedence over any schematics and specifications contained on this page. Further, it shall be the sole responsibility of the lot owner to ensure that all components specified on this page are installed to full compliance with the BC Building Code, whether or not it is determined that this page contains any error or omission.

ENERGY EFFIECY PAGE

SCALE: 1/8" = 1'-0"

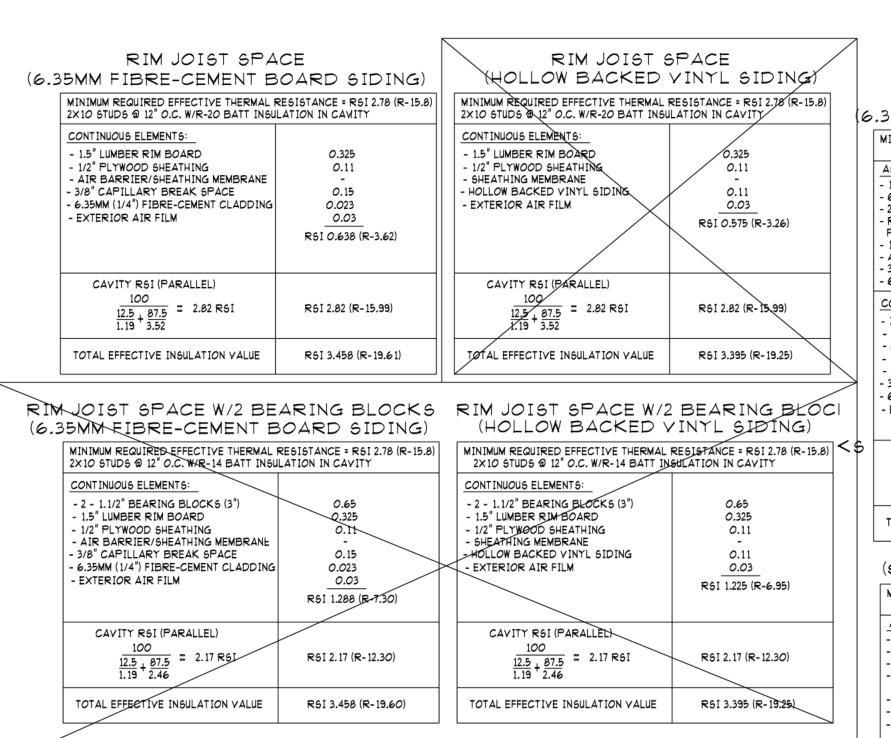
OWNER NAME: GURPAL GILL CONTACT #:

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OWNER NAME: GURPAL GILL CONTACT #:

DATE: October 6, 2023

SHEET#



ABOVE GRADE WAL 35MM FIBRE-CEMENT		ABOVE GRADE WAL (HOLLOW BACKED V		
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 2.78 (R-15.8) 2X6 STUDS @ 16" O.C.		MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 2.78 (R-2×6 STUDS @ 16" O.C.		
ASSEMBLY DESCRIPTION: 1/2" GYPSUM BOARD 6 MIL POLY VAPOUR BARRIER 2X6 STUDS @ 16" O.C. R-19 (R-20 COMPRESSED) BATT FIBREGLASS INSULATION IN CAVITIES 1/2" PLYWOOD SHEATHING AIR BARRIER/SHEATHING MEMBRANE 3/8" CAPILLARY BREAK SPACE 6.35MM (1/4") FIBRE-CEMENT CLADDING		ASSEMBLY DESCRIPTION: - 1/2" GYPSUM BOARD - 6 MIL POLY VAPOUR BARRIER - 2X6 STUDS @ 16" O.C. - R-19 (R-20 COMPRESSED) BATT FIBREGLASS INSULATION IN CAVITIES - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - HOLLOW BACKED VINYL SIDING		
CONTINUOUS ELEMENTS: INTERIOR AIR FILM - 1/2" GYPSUM WALL BOARD - 6 MIL POLY VAPOUR BARRIER - 1/2" PLYWOOD SHEATHING - AIR BARRIER/SHEATHING MEMBRANE 3/6" CAPILLARY BREAK SPACE 6.35MM (1/4") FIBRE-CEMENT CLADDING - EXTERIOR AIR FILM	O.12 O.08 O.11 O.15 O.023 O.03 RSI O.513 (R-2.90)	CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - 1/2" GYPSUM WALL BOARD - 6 MIL POLY VAPOUR BARRIER - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - HOLLOW BACKED VINYL SIDING - EXTERIOR AIR FILM	0.12 0.08 0.11 0.11 0.03 RSI 0.45 (R-2.55)	
CAVITY RSI (PARALLEL) $\frac{100}{\frac{23}{1.19} + \frac{77}{3.34}} = 2.36 \text{ RSI}$	R6I 2.36 (R-13.38)	CAVITY RSI (PARALLEL) $\frac{1000}{\frac{23}{1.19} + \frac{77}{3.34}} = 2.36 \text{ RSI}$	RSI 2.36 (R-13.38)	
TOTAL EFFECTIVE INSULATION VALUE	RSI 2.873 (R-16.28)	TOTAL EFFECTIVE INSULATION VALUE	RSI 2.81 (R-15.93)	
ABOVE GRADE WA STUCCO CLADDING EXTERIO		(STONE FACE EXTERIOR WAL	L ASSEMBLY	
MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 2.78 (R-15.8) 2X6 STUDS @ 16" O.C.		MINIMUM REQUIRED EFFECTIVE THERMAL RESISTANCE = RSI 2.78 (R 2X6 STUDS @ 16" O.C.		
ASSEMBLY DESCRIPTION: - 1/2" GYPSUM BOARD - 6 MIL POLY VAPOUR BARRIER - 2X6 STUDS @ 16" O.C R-19 (R-2O COMPRESSED) BATT FIBREGLASS INSULATION IN CAVITIES - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - 1/2" AIR SPACE - PAPER BACKED METAL LATH - STUCCO CLADDING		ASSEMBLY DESCRIPTION: - 1/2" GYPSUM BOARD - 6 MIL POLY VAPOUR BARRIER - 2X6 STUDS @ 16" O.C. - R-19 (R-2O COMPRESSED) BATT FIBREGLASS INSULATION IN CAVITIES - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - 1/2" AIR SPACE - PAPER BACKED METAL LATH - STONE CLADDING		
CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - 1/2" GYPSUM WALL BOARD - 6 MIL POLY VAPOUR BARRIER 2X6 STUDS @16"O.C.(R61 1.19) - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - 1/2" AIR SPACE - PAPER BACKED METAL LATH - STUCCO CLADDING - EXTERIOR AIR FILM	0.12 0.08 2.36 0.11 	CONTINUOUS ELEMENTS: - INTERIOR AIR FILM - 1/2" GYPSUM WALL BOARD - 6 MIL POLY VAPOUR BARRIER 2×6 STUDS @16"O.C.(RSI 1.19) - 1/2" PLYWOOD SHEATHING - SHEATHING MEMBRANE - 1/2" AIR SPACE - PAPER BACKED METAL LATH - STONE CLADDING - EXTERIOR AIR FILM	0.12 0.08 2.36 0.11 0.16 0.013 0.03	

RSI 2.78 (R 15.78)

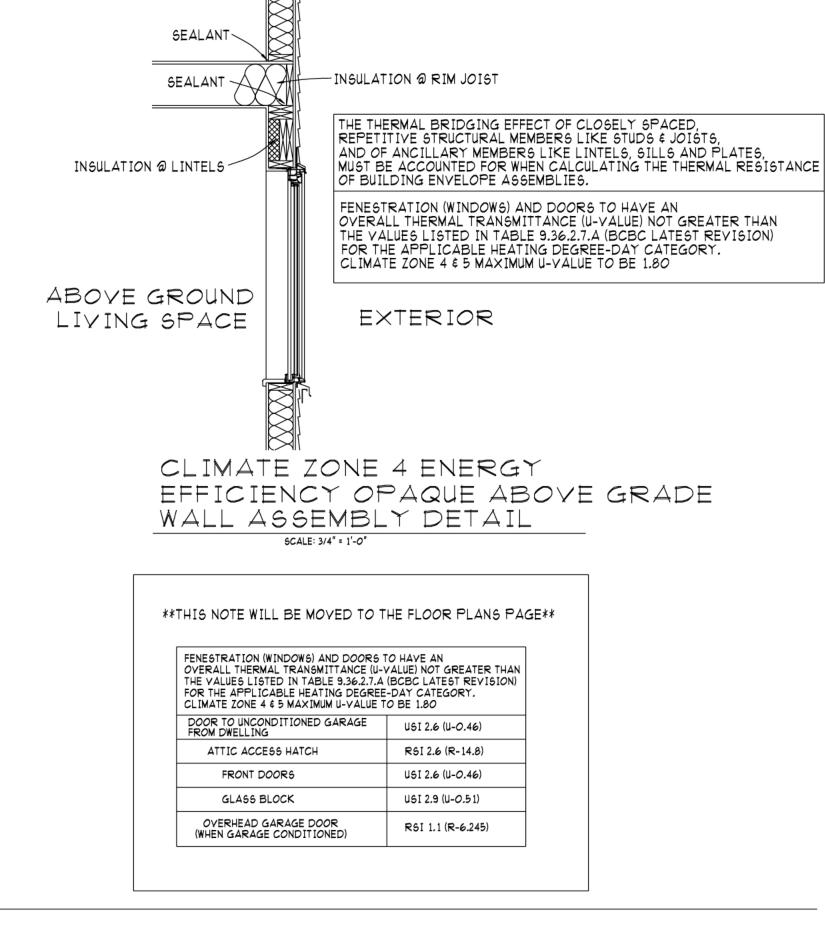
RSI 2.36 (R-13.38)

RSI2.87 (R-16.3)

CAVITY RSI (PARALLEL)

77 = 2.36 RSI

TOTAL EFFECTIVE INSULATION VALUE

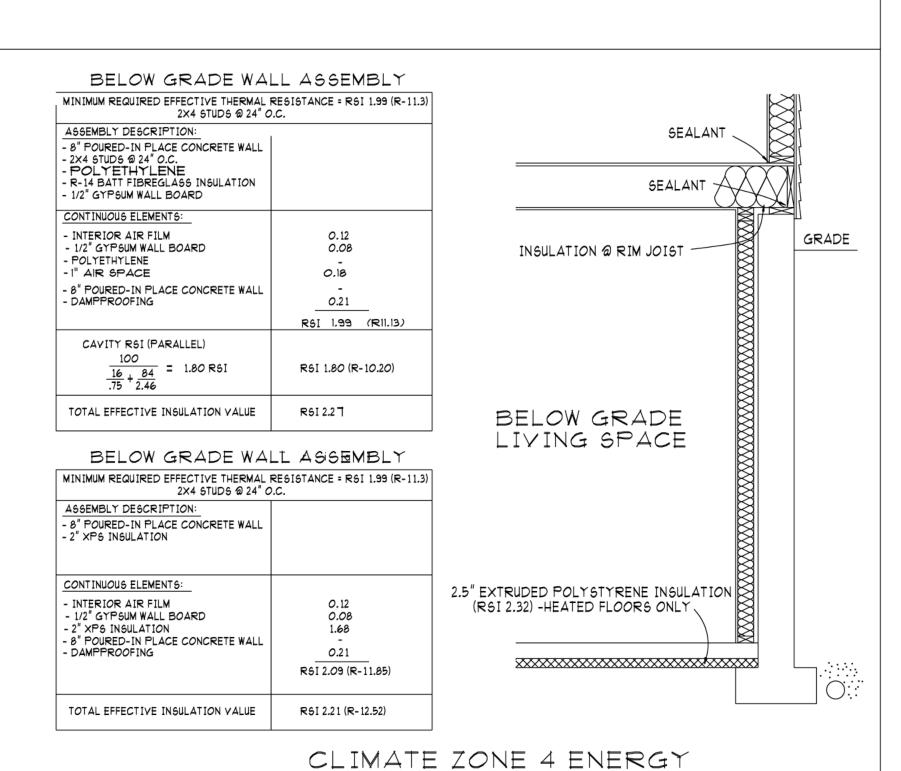


EXTERIOR

— 4" XPS INSULATION

ENERGY EFFICIENCY REQUIREMENTS THIS HOME IS DESIGNED TO COMPLY WITH ENERGY EFFICIENCY REQUIREMENTS AND VALUES USING THE PRESCRIPTIVE METHOD FOR

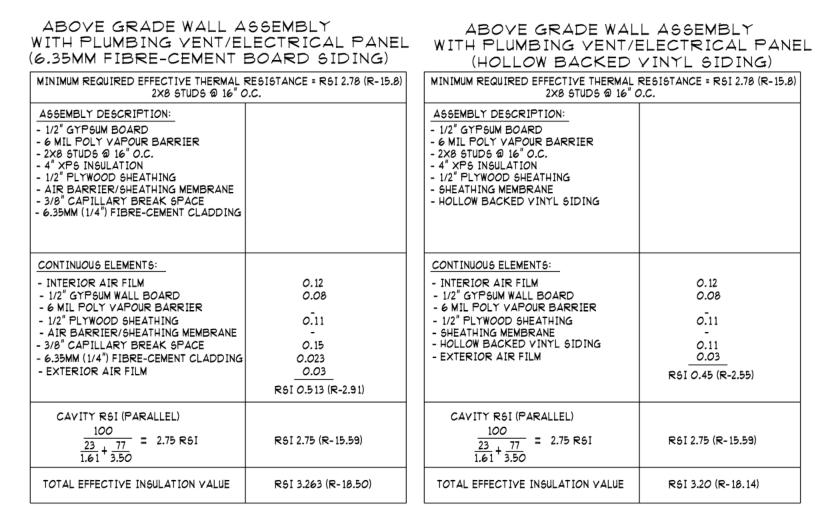
CLIMATE ZONE 4 - LOWER MAINLAND AND SOUTHERN VANCOUVER ISLAND WITH NO H.R.V. (BCBC 2018 LATEST EDITION)



EFFICIENCY OPAQUE BELOW GRADE

WALL ASSEMBLY DETAIL

SCALE: 3/4" = 1'-0"



CAVITY RSI (PARALLEL)

77 = 2.36 RSI

TOTAL EFFECTIVE INSULATION VALUE

ABOYE GROUND LIVING SPACE 2.5" DIA. PLUMBING VENT PIPE -OR ELECTRICAL PANEL (ELECTRICAL PANEL MAY REQUIRE WALL TO BE FURRED-IN)

RSI 2.78 (R 15.78)

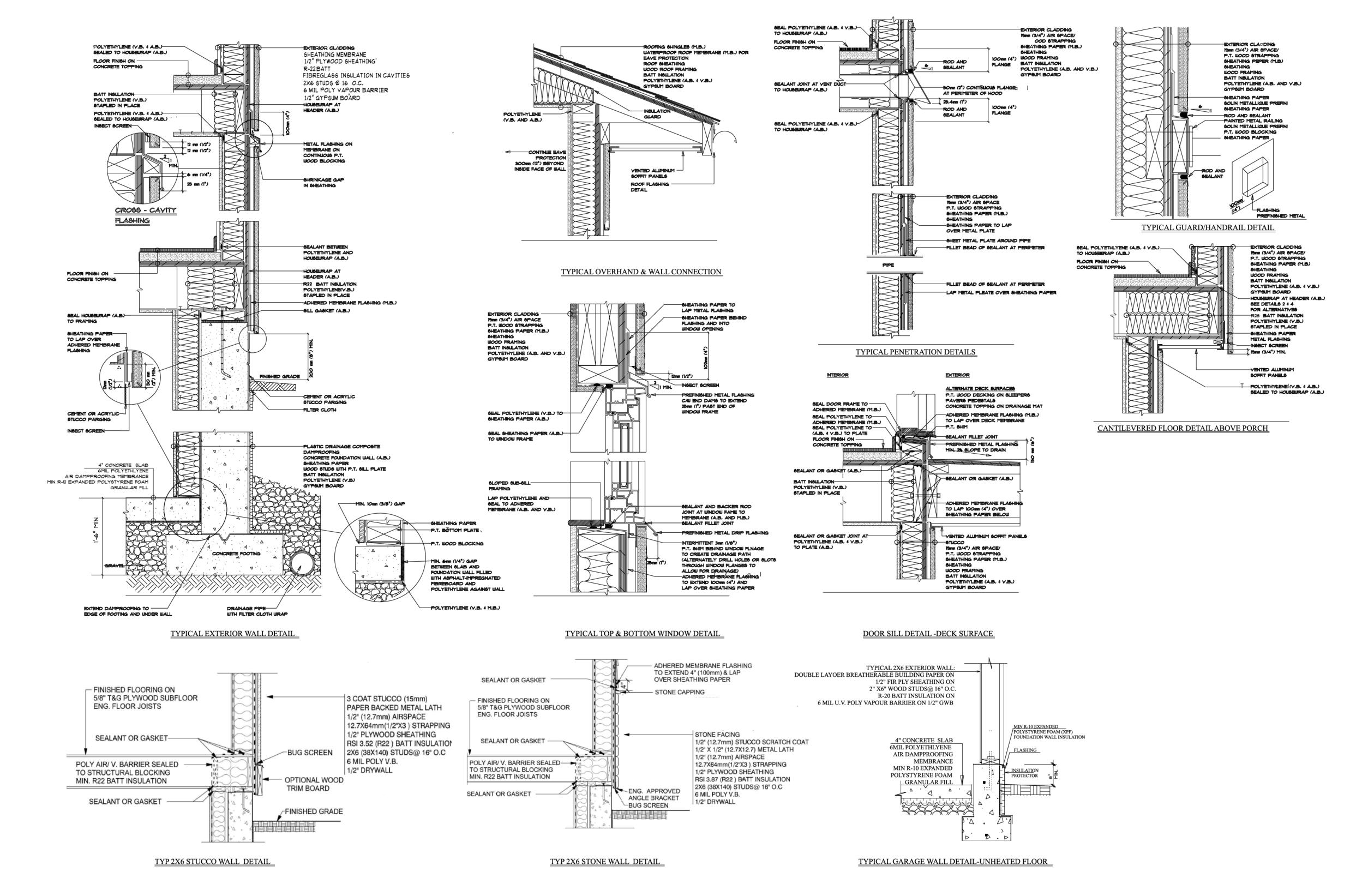
RSI 2.36 (R-13.38)

RSI2.87 (R-16.3)

CLIMATE ZONE 4 ENERGY EFFICIENCY PLUMBING VENT/ ELECTRICAL PANEL WALL ASSEMBLY DETAIL SCALE: 3/4" = 1'-0"

ENERGY EFFICIENCY PAGE 2

SCALE: 1/8" = 1'-0"



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RAIN SCREEN

SCALE: 1/8" = 1'-0"

RAIN SCREE

SHEET TITLE:

SITE ADDRESS: 14737 MARINE DRIVE, WHITEROCK,

OWNER NAME : GURPAL GILL CONTACT # :

DATE: October 6, 2023

SHEET #