



THESE PLANS CONFORM TO BCBC 20 CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND LOCAL BUILDING BY-LAWS.

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DO NOT SCALE DRAWINGS

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JOB DESCRIPTION:

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19343 119B Avenue PITT MEADOWS, B.C.

LEGAL DESCRIPTION:

Lot 59 DL 283 G. 1 NWD Plan 37782

PID :

CLIEN

REV OCT 2024

SCALE:
1/4"=1'-0" (UNO)

DRAWN:
HARP D.M.

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# **GENERAL NOTES:**

THESE DRAWINGS HAVE BEEN PREPARED BY D.MAND DESIGN AND DRAFTING SERVICES LTD. TO CONFORM TO CURRENT RESIDENTIAL STANDARDS OF THE BRITISH COLUMBIA BUILDING CODE (B.C.B.C. 2018). THE BUILDER IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION CONFORMS TO PROVINCIAL AND LOCAL BUILDING CODES AND BY-LAWS.

IT IS THE RESPOSIBILITY OF THE BUILDER/FRAMER TO CHECK AND VERIFY ALL DIMENSIONS, MATERIALS, AND SPECIFICATIONS PRIOR TO CONSTRUCTION. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO OUR ATTENTION IMMEDIATELY SO THAT CORRECTIONS CAN BE MADE AND PLANS REPLACED. DESIGNER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS AFTER CONSTRUCTION HAS COMMENCED.

DIMENSIONS TAKE PRECEDENCE TO SCALE DRAWINGS, DO NOT SCALE THESE DRAWINGS.

ALL CONSTRUCTION AND INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH GOOD BUILDING PRACTICE AND MANUFACTURERS INSTRUCTIONS IN A TIMELY MANNER

STRUCTURAL FRAMING MATERIALS ARE TO BE:

- JOISTS: DOUGLAS FIR #2 OR BETTER.
- LINTELS: DOUGLAS FIR #2 OR BETTER.
- BEAMS: DOUGLAS FIR #2 OR BETTER.
- HEADERS: DOUGLAS FIR #2 OR BETTER.
- RAFTERS: DOUGLAS FIR #2 OR BETTER.
- PLATES: DOUGLAS FIR OR SPF #2 OR BETTER
- STUDS: DOUGLAS FIR OR SPE STUD GRADE

UNLESS OTHERWISE STATED. APPLICATION OF MATERIALS MUST CONFORM TO THE TABLES PROVIDED IN THE B.C.B.C RESIDENTIAL STANDARDS AND THE SPAN BOOK 2004 EDITION.

BUILDING FRAMES SHALL BE ANCHORED TO THE FOUNDATION WALLS BY FASTENING A SILL PLATE TO THE FOUNDATION WALL WITH 1/2" ANCHOR BOLTS SPACED AT 6'-0" ON CENTER, UNLESS OTHERWISE NOTED.

ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PROTECTED WITH 45LB. FELT, SILL GASKET OR OTHER APPROVED METHODS.

CAULKING AND FLASHING TO BE PROVIDED AS PER B.C.B.C.

FLOOR JOISTS SPANNING MORE THAN 7'-0" ARE TO BE BRIDGED AT MID SPAN OR AT 7'-0" O.C. BY 2" X 2" DIAGONAL BRACING. ALL SUBFLOORS TO BE 5/8" T&G PLYWOOD, GLUED AND NAILED TO FLOOR JOISTS.

PARTITION WALL PARALLEL TO FLOOR JOISTS SHALL BE SUPPORTED BY A SINGLE JOIST OR BLOCKING BETWEEN JOISTS. PARTITION WALLS, SUPPORTING KITCHEN CABINETS, PARALLEL TO FLOOR JOISTS SHALL BE SUPPORTED BY DOUBLE JOISTS.

ALL LINTELS TO BE 2 - 2" X 10" DOUGLAS FIR #2 OR BETTER, UNLESS OTHERWISE STATED, AND SHALL BE SUPPORTED ON A MINIMUM 2" BEARING.

BUILDER TO CHECK SNOW LOAD AND RAIN LOAD GUIDELINES FOR THEIR MUNICIPALITY PRIOR TO CONSTRUCTION

ROOF SPACE SHALL BE VENTED WITH ROOF TYPE, EAVE TYPE, AND/OR GABLE TYPE VENTS TO A MINIMUM OF 1:300 OF THE INSULATED CEILING AREA. ROOF JOISTS VENTED TO MINIMUM 1:150.

CRAWLSPACES SHAL BE VENTED TO A MINIMUM OF 1:500. VENTS SHALL BE UNIFORMLY PLACED AROUND THE BUILING. CRAWLSPACES MAY ALSO BE HEATED BY A FORCED AIR HEATING SYSTEM OR VENTS TO AN ADJACENT BASEMENT.

MINIMUM INSULATION REQUIREMENTS:

- FOUNDATION WALL: R-12
- ROOF: R-40
- 2" X 4" WALLS: R-14 - 2" X 6" WALLS: R-20
- CANTILEVERED FLOORS, CEILINGS AND DECKS ABOVE FLOORS: R-28

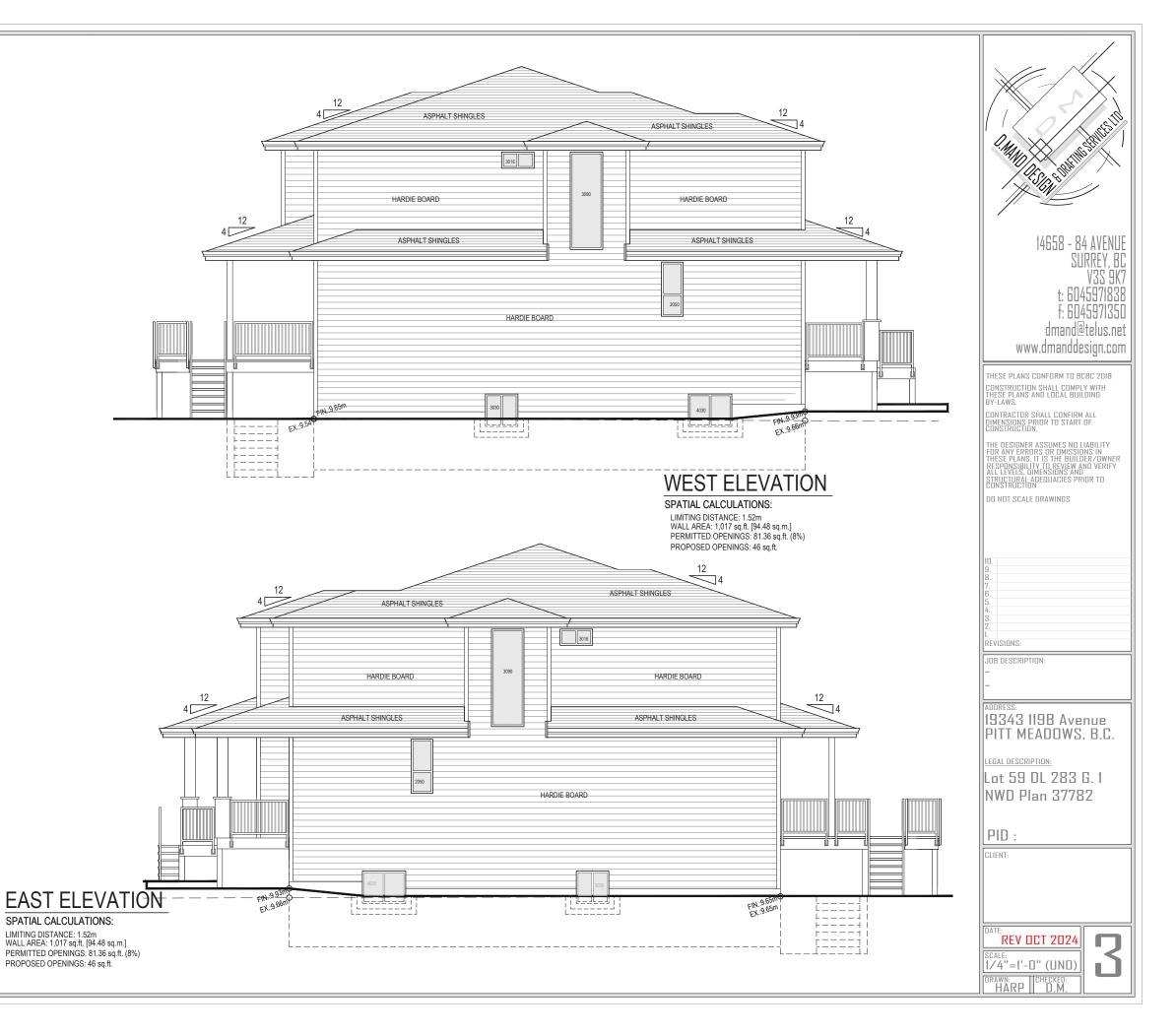
WITH 6MIL POLY VAPOUR BARRIER INSTALLED ON THE WARM SIDE OF THE INSULATION.

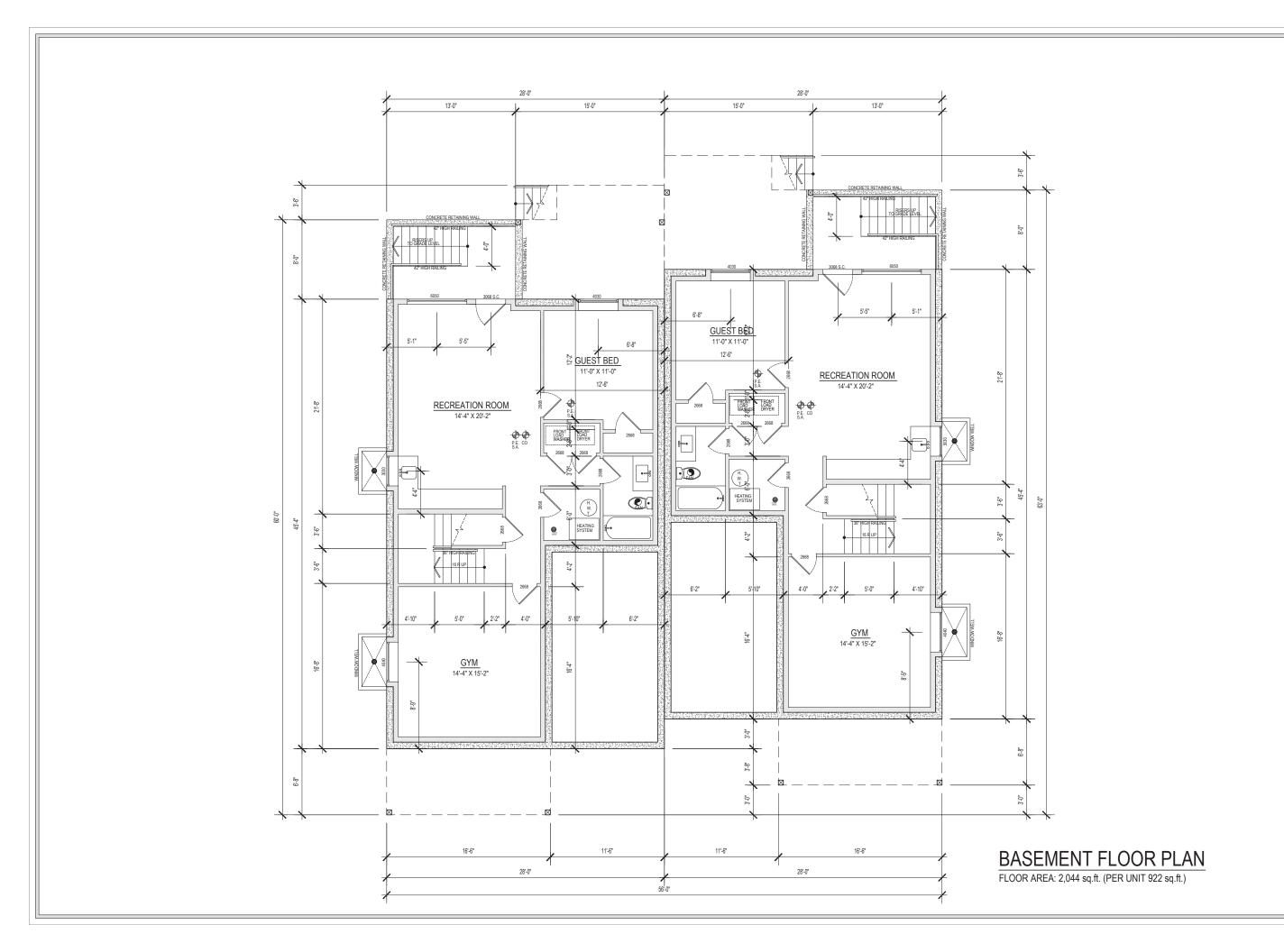
CEILING INSULATION SHALL BE INSTALLED SO AS NOT TO RESTRICT AIR FLOW THROUGH ROOF VENTS TO ATTIC SPACES.

ATTIC SPACES AND CRAWLSPACES TO HAVE A MINIMUM 20" X 32" ACCESS HATCHWAY, WEATHERSTRIPPED

PROVIDE A COPY OF SIGNED ANS SEALED ROOF TRUSS SHOP DRAWINGS & SPECIFICATIONS PRIOR TO FRAMING INSPECTION.

REMOVING WEB MEMBERS, DRILLING OR CUTTING CHORDS WILL NOT BE PERMITTED.







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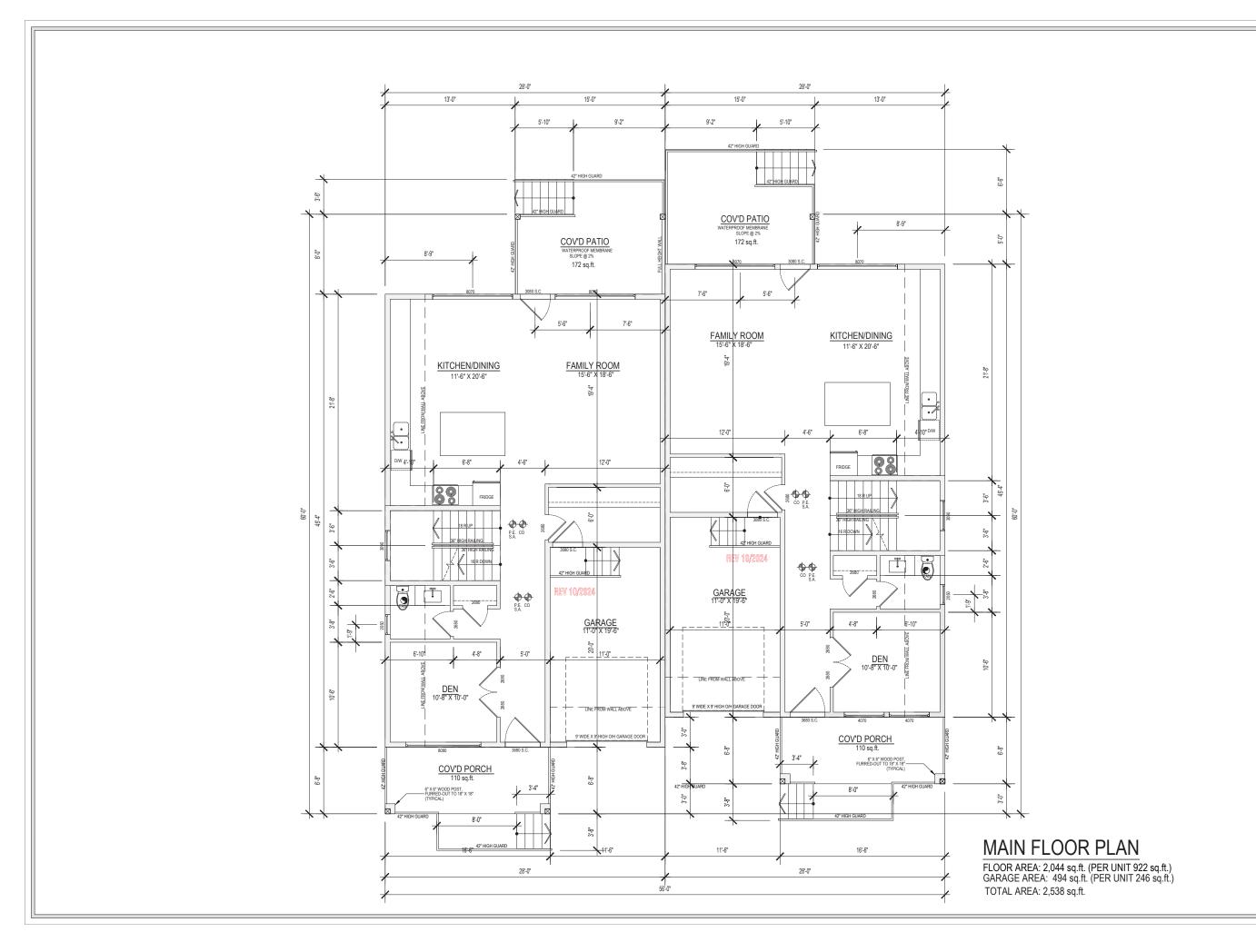
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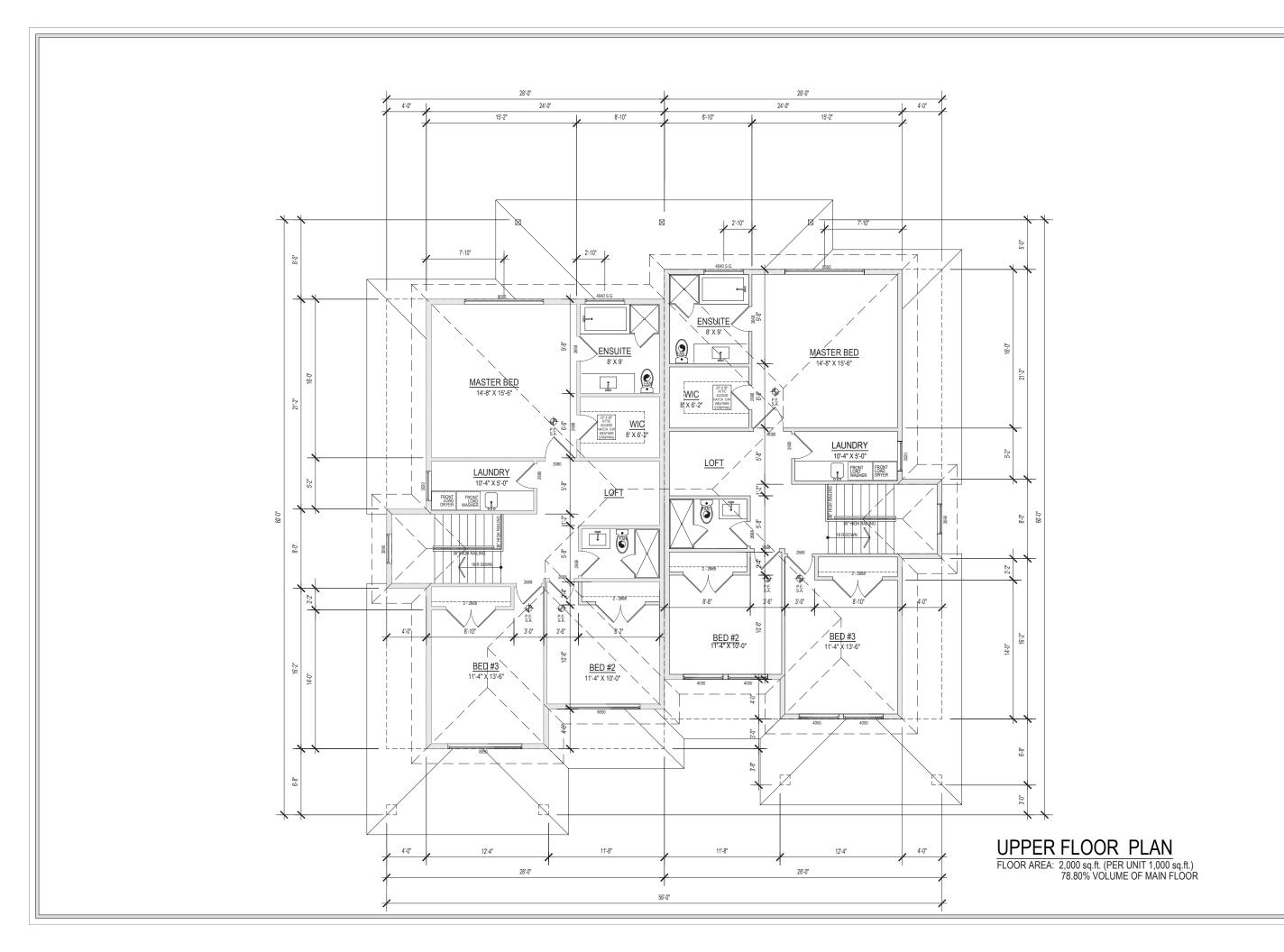
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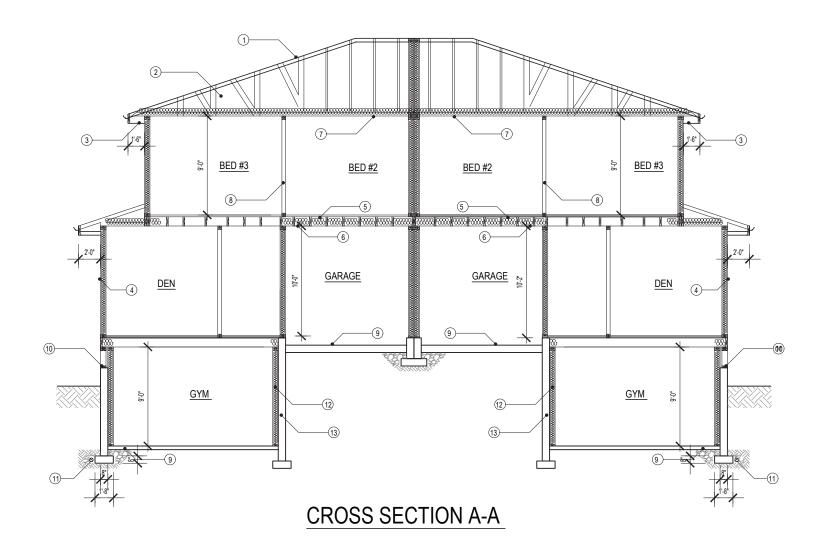
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| DATE: | REV OCT 2024 |
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# **CROSS SECTION SCHEDULE**

- 1) METAL ROOFING (AS PER BCBC 2012) 2-LAYERS OF 30 MIN. BUILDING PAPER TO CONFORM TO CAN/CGSB-51.34-M 3/8" THICK PLYWOOD SHEATHING PLACED WITH GRAIN PERPENDICULAR TO ROOF FRAMING, STAGGERED. CONTINUOUS VENTED ALUMINUM SOFFITS.
- 2 ATTIC SPACE ROOF TYPE VENTS AT 1/300 UNIFORMLY AT OPPOSITE SIDES OF BUILDING. CONTINUOUS RIBBED BAFFLE TO PREVENT INSULATION FROM BLOCKING SOFFIT VENTS & TO MAINTAIN 1° GAP FOR VENTILATION AIR TRAVEL R-40 "BLOWN" INSULATION AS PER B.C.B.C 9.25.2.2

POLYETHYLENE SHEET CONTINUOUS TO PREVENT AIR LEAKAGE FROM INSIDE BUILDING OUT AND OUTSIDE BUILDING IN. LAP MIN 4" AT JOINTS, TAPE OR SEAL AIR TIGHT. PROVIDE CONTINUOUS SEAL AT PENETRATIONS. TO CONFORM TO CANCCSGB-51 33-M TO PROTECT ENTIRE SURFACE. MAXIMUM PERMEANCE=60ng/Pa\*S'm2) MEASURED IN ACCORDANCE WITH ASTM E 96 AS PER B.C.B.C. 9.25.4.

3 ALUMINUM GUTTERS, 2" X 12" ROUGH FASCIA, CONTINUOUS VENTED ALUMINUM SOFFITS.

HARDIE BOARD SIDING, INCLUDING FLASHING AND TRIM ACCESSORIES TO CONFORM TO CANCGSB-41.24, ATTACHMENT TO CONFORM TO REQUIREMENTS IN SUBSECTION B.C.B.C. 9.27.5.

WEATHER TREATED LUMBER 1" X 4" VERTICAL STRAPPING @ 16" O/C TO PROVIDE 1" AIRSPACE BETWEEN CLADDING AND SHEATHING MEMBRANE

7/16" O.S.B.

2" X 6" STUDS @ 16" C.C.

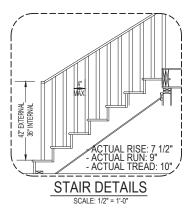
LENGTH OF FRAMING, WITH ONE FACE IN FULL CONTACT WITH SHEATHING

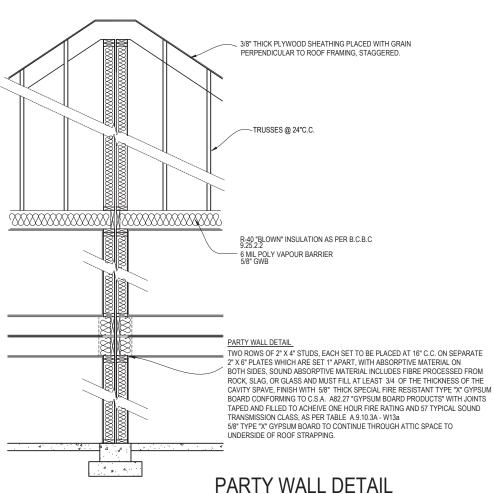
POLYETHYLENE SHEET CONTINUOUS TO PREVENT AIR LEAKAGE FROM INSIDE BUILDING OUT AND OUTSIDE BUILDING IN. LAP MIN 4" AT JOINTS, TAPE OR SEAL AIR TIGHT PROVIDE CONTINUOUS SEAL AT PENETRATIONS. TO CONFORM TO CANICSGB-51.33-M TO PROTECT ENTIRE SURFACE. MAXIMUM PERMEANCE-600.0[Pg 15" m2) MEASURED IN ACCORDANCE WITH ASTM E 96 AS PER B.C.B.C. 9.25.4.

1/2" TYPE 'X' GYPSUM WALL BOARD

- 5 1 1/2" LIGHT WEIGHT CONCRETE (FOR RADIANT HEATING)
- 6 FINISH FLOOR ON 5/8" T&G PLYWOOD, T.J.I. JOIST (AS PER ENG) C/W BRIDGING, 1/2" GYP, BOARD ON THE CEILING.
- 7) 5/8" GYP. BOARD ON CEILING.
- 8 2" X 4" @16" C.C., 1/2" GYP. BOARD ON BOTH SIDES
- 4" THICK BASEMENT SLAB (20 MPa CONCRETE), CONTINUOUS POLYETHYLENE SHEET, LAP MIN. 4" AT JOINTS, TAPE OR SEAL AIR-TIGHT., MINIMUM 8" GRANULAR MATERIAL OR CRUSHED STONE (COMPACTED),
  CALUKING BEAD TO SEAL SLAB @ WALL
  C/W EXPANSION JOINT.
- (1) 1/2" ANCHOR BOLT @ 6" O/C, 2"X 6" WOOD SILL PLATE C/W MOISTURE BARRIER, TYPE S'R POLL ROOFING SILL GASKET, 6" CONCRETE FOUNDATION
- (1) 4" PERFORATED DRAINTILE TO CONFORM TO CANIGSA-B182.1 AS PER B.C.B.C. 9.14.3.1 WALL ON 18" X 8" FOOTING CW 2 COATS OF ASPHALT. INSTALLED AS PER B.C.B.C. 9.14.3.3. C/W MINIMUM 6" GRANULAR MATERIAL OR CRUSHED STONE
- (12) FULL HEIGHT 2" X 6" STUD WALL CONSTRUCTION COMPLETE WITH APPROVED R-20 INSULATION

8" CONCRETE FOUNDATION WALL (HEIGHT VARIES ACCORDING TO GRADE)





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



14658 - 84 AVENUE SURREY RO f: 6045971350 dmand@telus.net www.dmanddesign.com

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REV OCT 2024 1/4"=1'-0" (UND) RAWN: HARP

## B.C.B.C. ENERGY EFFICIENCY CHECKLIST

PERSCRIPTIVE METHOD (NO TRADE OFFS) ZONE: 4

- HRV UNIT REQUIRED

- PROVIDE RIGID INSULATION BEHIND ELEC. METER EQUAL TO R VALUE REQ'D OF THE WALL
- HEATING SYSTEM TO MEET 92% EFFICIENCY REQUIREMENTS

# GENERAL NOTES: [BCBC 9.32 TO 9.36]

FOUNDATION TO SILL PLATE AND RIM JOISTS

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, COVERING THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERIAL OR MAINTAINING THE CONTINUITY OF THE THE AIR BARRIER SYSTEM THROUGH THE INTERIOR WALL

### FOUNDATION TO SILL PLATE AND RIM JOISTS

INTERIOR WALL THAT MEET EXTERIOR WALLS OR CEILINGS WITH AN NTERIOR PLANE OF AIR TIGHTNESS MUST BE MADE AIRTIGHT BY EITHER SEALING ALL JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS WITH AN AIR BARRIER SYSTEM THROUGH THE INTERIOR WALL

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

#### CANTILEVERED FLOORS:

CANTILEVERES 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 HEADS:

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 SILLS:

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

#### MECHANICAL FULES AND CHIMNEYS:

TIGHTNESS AND SEALING IR TO THE TOP PLATE

STEEL-LINES CHIMNEYS THAT PENETRATE THE BUILDING ENVELOPE MUST BE MADE AIRTIGHT BY BLOCKING THE VOID BETWEEN REQUIRED CLEARANCES FOR METAL CHIMNEYS AND SURROUNDING 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 COMPATABLE MATERIAL OR SHEATHING TAPE. OR INSTALLING A RUBBER GASKET OR PREFABRICATED ROOF FLASHING AT THE PENETRATION TO THE VENT STACK PIPE WITH A 1 PENETRATION OF THE PLANE OF AIR

### SKYLIGHTS:

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

ALL JOINTS AT THE TRANSITION BETWEEN THE ABOVE GRADE WALL CEILING MUST BE MADE AIRTIGHT BY SEALING ALL JOINTS AND JUNCTIONS BETWEEN THE STRUCTURAL COMPONENTS AND/OR COVERING THE MATERAIL STRUCTURAL COMPONENTS WITH AN AIR BARRIER MATERAIL

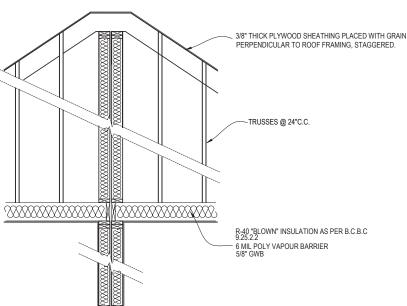
### WALL VENTED DUCTS

DUCT PENETRATION THROUGH THE BUILDING ENVELOPE MUST HAVE AN AIRTIGHT SEAL

### ELECTRICAL PENETRATIONS IN WALL

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 DESIGNNED TO BE ARITIGHT 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



TO VBBL-CAN3-A93-M PLACED UNIFORMLY AT OPPOSITE SIDES OF BUILDING.

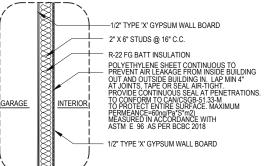
TRUSS ROOF/EXT WINDOW ASSEMBLY

REQUIRED MIN. EFFECTIVE THERMAL RESISTANCE OF ASSEMBLIES (TABLE 9.36.2.6 A&B OF BCBC)

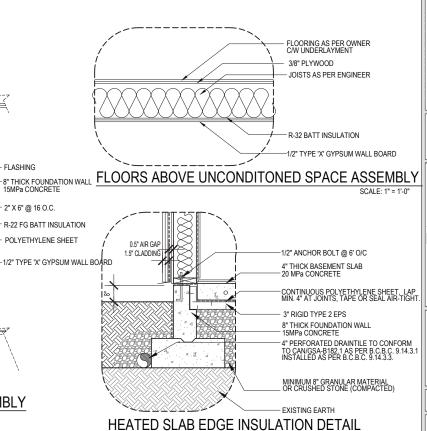
	RSI VALUES (m2 K)/W	R VALUES (h ft2 °F)/Btu
CEILINGS BELOW ATTIC	6.91	39.2
VAULTED CEILINGS AND FLAT ROOF	4.67	26.5
EXTERIOR WALLS (ADJACENT TO UNCONDITIONAL SPACE)	2.78	15.8
FLOORS (ADJACENT TO UNCONDITIONAL SPACE)	4.67	26.5
FOUNDATION WALLS	1.99	11.3
HEATED FLOOR SLABS	2.32	13.2
UNHEATED FLOOR SLABS	1.96	11.1
GARAGE DOORS (HEATED GARAGE)	1.10	6.25
ACCESS HATCHES	2.60	14.76

HARDIE BOARD SIDING, INCLUDING FLASHING AND TRIM ACCESSORIES TO CONFORM TO CAN/CGSB-41.24, ATTACHMENT TO CONFORM TO REQUIREMENTS IN SUBSECTION B.C.B.C. 9.27.5. WEATHER TREATED LUMBER 1" X 4" VERTICAL STRAPPING @ 16" O/C -TO PROVIDE 1" AIRSPACE BETWEEN CLADDING AND SHEATHING MEMBRANE. 7/16" O.S.B. 2" X 6" STUDS @ 16" C.C. R-22 FG BATT INSULATION POLYETHYLENE SHEET CONTINUOUS TO PREVENT AIR LEAKAGE FROM INSIDE BUILDING PREVENT AIR LEARAGE FROM INSUE BUILDING OUT AND OUTSIDE BUILDING IN. LAP MIN 4" AT JOINTS, TAPE OR SEAL AT FENETRATIONS. TO CONFORM TO CANICSGB-51:33-M TO PROTECT ENTIRE SURFACE. MAXIMUM PERMEANCE-60ng (Pa S.m.)
MEASURED IN ACCORDANCE WITH

(NOTE: NEEDS TO BE STRUCTURALLY SUPPORTED RATHER THAN
BETWEEN STRUCTURAL COMPONENTS)



## WALL ASSEMBLY AT GARAGE WALL





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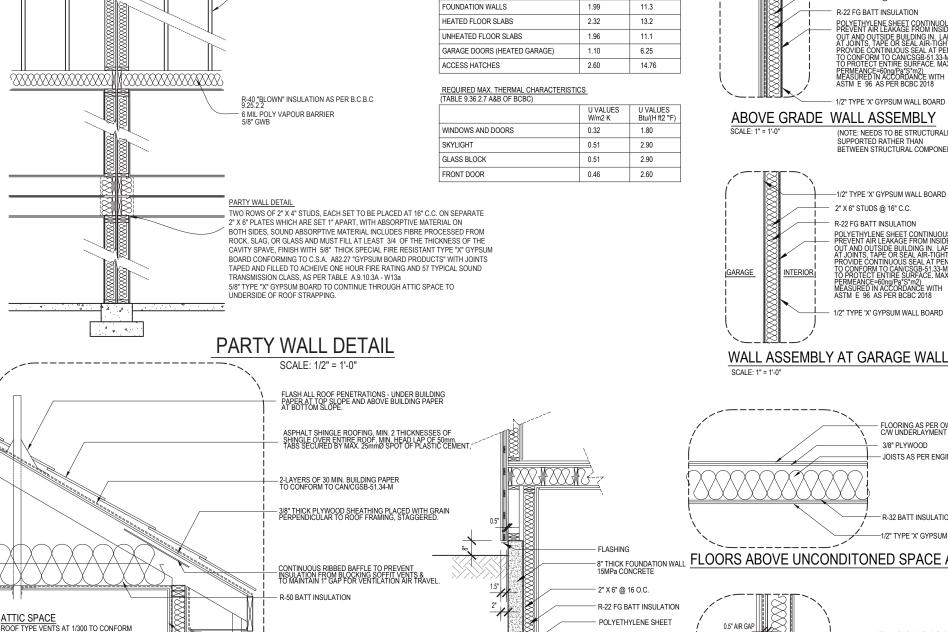
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FOUNDATION WALL ASSEMBLY

1/2" TYPE 'X' GYPSUM WALL BOARD

EXTERIOR WINDOW CLOSURE TO CONFORM TO CAN/CSA-A440. FLAT/CLEAR SHEET GLASS

TO CONFORM TO CAN/CGSB-12.2-M, TEMPERED/LAMINATED GLASS TO CONFORM TO CAN/CGSB-12.1-M.

LINTEL ABOVE OPENING

- FLASHING OVER OPENING (SEE DETAIL)

