

STANDARD DETAILS

THESE DRAWINGS ILLUSTRATE SOME OF THE MINIMUM ONTARIO BUILDING CODE REQUIREMENTS WHICH APPLY TO RESIDENTIAL CONSTRUCTION IN ONTARIO, AND ARE PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. THE DETAILS PROVIDED ARE NOT MEANT AS LEGAL OR TECHNICAL ADVICE AND IT SHOULD NOT BE RELIED UPON AS SUCH. THEY DO NOT NECESSARILY REPRESENT EVERY DETAIL OF BUILDING CONSTRUCTION, OR ALL MINIMUM STANDARDS WHICH MAY APPLY. FOR MORE DETAILED INFORMATION ABOUT CONSTRUCTION REGULATIONS REFER TO THE ONTARIO BUILDING CODE, YOUR MUNICIPAL BUILDING DEPARTMENT, OR A QUALIFIED DESIGNER.

CLIMATIC DESIGN REQUIREMENTS

THESE DETAILS APPLY TO ZONE 1 NON-ELECTRIC SPACE HEATING ONLY. AREAS OUTSIDE GREATER TORONTO MAY BE SUBJECT TO DIFFERENT CLIMATIC CONDITIONS WHICH MAY SIGNIFICANTLY AFFECT CONSTRUCTION REQUIREMENTS. THE CLIMATIC DESIGN DATA WHICH APPLIES TO THE SPECIFIC BUILDING LOCATION SHOULD BE CONFIRMED BEFORE ADOPTING ANY OF THE DETAILS IN A PROPOSED DESIGN. CLIMATIC DESIGN INFORMATION MAY BE FOUND IN THE SUPPLEMENTARY STANDARD SB-1 OF THE ONTARIO BUILDING CODE.

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Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



BUILDING PERMITS MUST BE OBTAINED BEFORE YOU START WORK ON A NEW HOUSE, AN ADDITION, OR ANY ALTERATIONS TO AN EXISTING HOUSE WHICH ARE SIGNIFICANT IN NATURE. PERMITS ARE GEARED TO THOSE PROJECTS WHERE HEALTH & SAFETY MATTERS ARE INVOLVED, AND EXIST TO PROTECT YOU, OTHER HOMEOWNERS, BUILDING OCCUPANTS, FUTURE OWNERS AND THE COMMUNITY.

WHEN DO I NEED A PERMIT ?

CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR SPECIFIC PERMIT REQUIREMENTS FOR ANY PARTICULAR PROJECT.

PERMITS ARE NORMALLY REQUIRED FOR:

Building any detached structure larger than 10m² Building any addition to your home Raised porches or decks Carports or garages Structural alterations Moving or lifting your house Installing a wood stove or fireplace Partitioning a basement or adding a basement entrance Creating an apartment or secondary suite in your house Altering or adding any plumbing Demolishing a house

PERMITS ARE NOT NORMALLY REQUIRED FOR:

Replacement of windows, doors, roofing or siding New interior wall, floor or ceiling finishes Repairs to chimneys, porches, decks or roofs Waterproofing repairs to a basement Replacement of plumbing fixtures Replacement of a furnace Storage shed with area of 15m² or less

HOW DO I GET THE PERMIT ?

- 1. Prepare drawings which accurately and to scale describe the construction you propose. Standard technical details are available at your local municipal office to assist in the preparation of your plans. The attached sample plans are an example of the scope of drawings usually required for an addition to a house. THESE DRAWINGS ARE NOT INTENDED FOR USE IN YOUR PERMIT APPLICATION. If you have someone else prepare your plans, ensure the designer has the appropriate qualifications required in the building code. It is usually advisable to verify with your local municipal office that your proposed site plan will meet local zoning standards before you prepare the complete construction plans.
- 2. Visit the website or the office of your local municipality, and complete a building permit application.
- 3. Provide the required construction drawings, including a site plan.
- 4. Pay the permit fee.
- 5. If the approval of other agencies such as the Conservation Authority applies to your application, contact the agency and apply for approval. Your local municipality can advise you if any outside agency approvals apply to your application.

WHEN WILL I GET THE PERMIT ?

Your permit will usually be issued within 10 to 15 business days if your drawings are complete and the proposed construction meets local zoning standards and the Ontario Building Code. If the approval of other agencies is required due to the location of your construction, such as the Conservation Authority, the permit may be delayed.

WHAT DO I HAVE TO DO AFTER I GET THE PERMIT ?

Review your approved permit drawings before you start work, and keep them on the project site at all times. Make working copies if necessary. The permit must be posted in a conspicuous place on your property prior to starting work. You can commence construction any time after obtaining the permit and your permit will remain valid for a minimum of six months. Local utilities such as hydro, gas and telephone operate independently from your municipality and should be contacted regarding their specific approval and inspection requirements. All utilities must be contacted prior to commencing any excavation to determine the location of any nearby underground services.

Inspection requirements are normally noted on your permit drawings or the permit itself and must be arranged by contacting the municipal building inspection office prior to covering the work. For a house addition, an inspection is usually required for footings & foundations, structural framing, plumbing, heating, insulation & vapour barriers and final inspections before using the new space. Smaller projects such as decks, garages and minor alterations will usually involve fewer inspections.

If changes to the approved work are anticipated, speak with the inspector to determine if a revision to your permit is required.

PLEASE REMEMBER TO WORK SAFELY!

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



A small housing addition will usually require the submission of the following drawings. All drawings must be accurately drawn to scale. If the drawings are prepared by someone other than the owner, the designer must have the qualifications specified in the building code.

SITE PLAN

A SITE PLAN is a drawing showing the complete property and identifying all structures in relation to the property boundaries. A property survey is commonly used as a template for developing the site plan. the site plan include:

- Scale
- North arrow
- Street location & name
- Lot lines & dimensions to all buildings
- Existing & proposed buildings
- proposed changes to existing grade

FLOOR PLANS

A FLOOR PLAN is a drawing of the structure as seen as if it is cut horizontally a few feet above the floor line. One floor plan is required for every floor of the house which is affected by the new construction. Each plan shows the interior layout of the level in question as well as providing the structural framing information for the floor or roof above. floor plans should include:

- Scale
- Use of rooms & spaces
- Dimensions
- Extent of new construction inculding new work within existing building
- Size, type and location of exterior and interior walls and partitions
- Widths, locations and lintel sizes of all openings
- Location, dimensions and direction of stairs
- References to detailed drawings
- Material specifications or notes
- Heating and ventilation details
- Location of smoke alarms and carbon monoxide detectors

ELEVATIONS

ELEVATIONS show the exterior view of each side of the house. Each elevation is identified by the direction it is facing, and should include:

- Scale
- Use of rooms & spaces
- Dimensions
- Extent of new & existing construction
- Dimensions of walls, windows & doors
- Grade level
- Exterior wall cladding, finishes & flashing
- Overhang dimensions
- Roof shape, slope & finish
- Rain water leader & eavestrough

SECTIONS and DETAILS

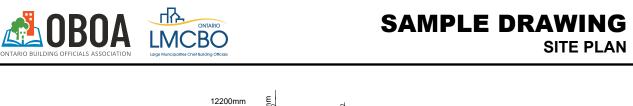
A SECTION represents a view of the house along an imaginary line at a particular location, & illustrates construction details. The extent of the section should correspond with the sectional arrow shown on the plans. Sections should indicate the following:

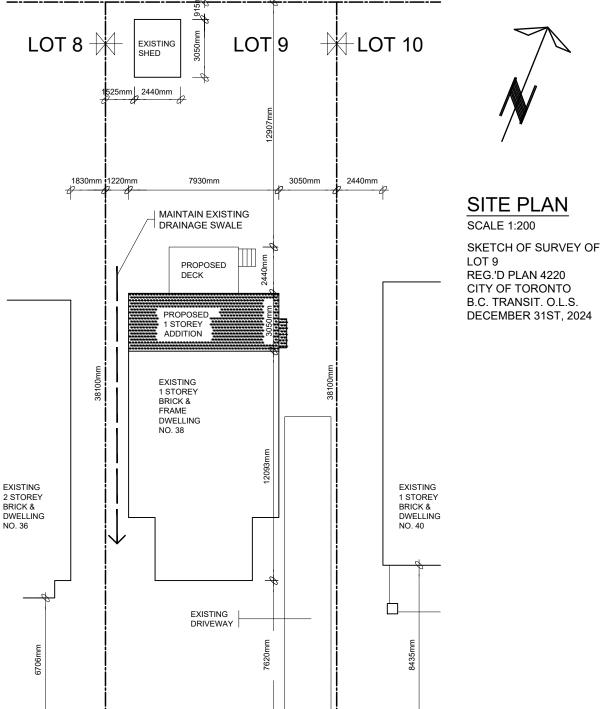
- Scale
- · Details of footings, foundations, walls, floors & the roof
- Distance from grade to floor & underside of footing
- Attic & crawl space ventilation

Some aspects of the project may require some specific details, such as engineered roof truss drawings. An inventory of standard construction details is available from your local municipal office, which can be used to augment your plans.

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A03a

SITE PLAN OBC 2024

KHALMUR CRESCENT

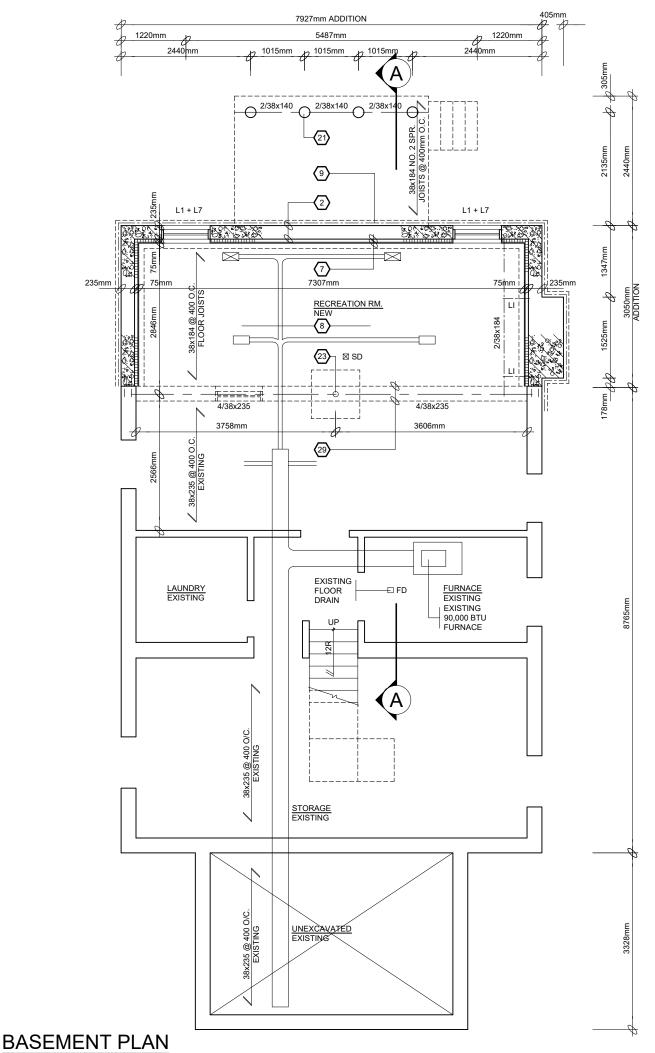
12200mm

| ZONING | LOT NO: PLAN NO: LOT AREA: | | | | | LOT FRONTAGE LOT DE | | | EPTH | | | | | |
|--------------------------|----------------------------|---------------|---------------------|----|----------------------|---------------------|----------|----------------|-------------------------|---------|----------|----------|--|--|
| R2 Z0.6 | | LOT 9 | | 42 | 220 | | 580.64m | 1 ² | 122 | 12200mm | | 38110mm | | |
| DESCRIPTION | RIPTION EXISTING | | ADDITION | | TOTAL | % | ALLOWED | % | SETBACKS | EXIST | ING | PROPOSED | | |
| LOT COVERAGE | 86. | 52m² | 24.15m ² | | 110.65m ² | 19.0 | | | FRONT YARD | 7620mm | | 7620mm | | |
| GROSS FLOOR AREA | 86. | 52m² | 24.15m² | | 110.65m ² | 19.0 | 348.39m² | 60.0 | REAR | | | | | |
| LANDSCAPED AREA | | | | - | | | | | YARD | 18390mm | | 12907mm | | |
| NO. OF STORIES HEIGHT | | TOREY 60mm | 1 STOREY 4550mm | | 1 STOREY 4550mm | | 10000mm | | INTERIOR SIDE (east) | 3050m | m | 3050mm | | |
| WIDTH | 793 | 0mm | 7930mm | | 7930mm | | | | INTERIOR 1220mm | | n | 1220mm | | |
| DEPTH | 120 | 93mm | 3050mm | | 15143mm | | 17000mm | | SIDE (west) | | | | | |
| PARKING | | | | - | | | | | | | EXTERIOR | | | |

ZONING RESTRICTIONS VARY IN EVERY MUNICIPALITY. CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR NOTE: SPECIFIC SETBACKS AND OTHER LIMITATIONS IN YOUR AREA.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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SCALE 1:50

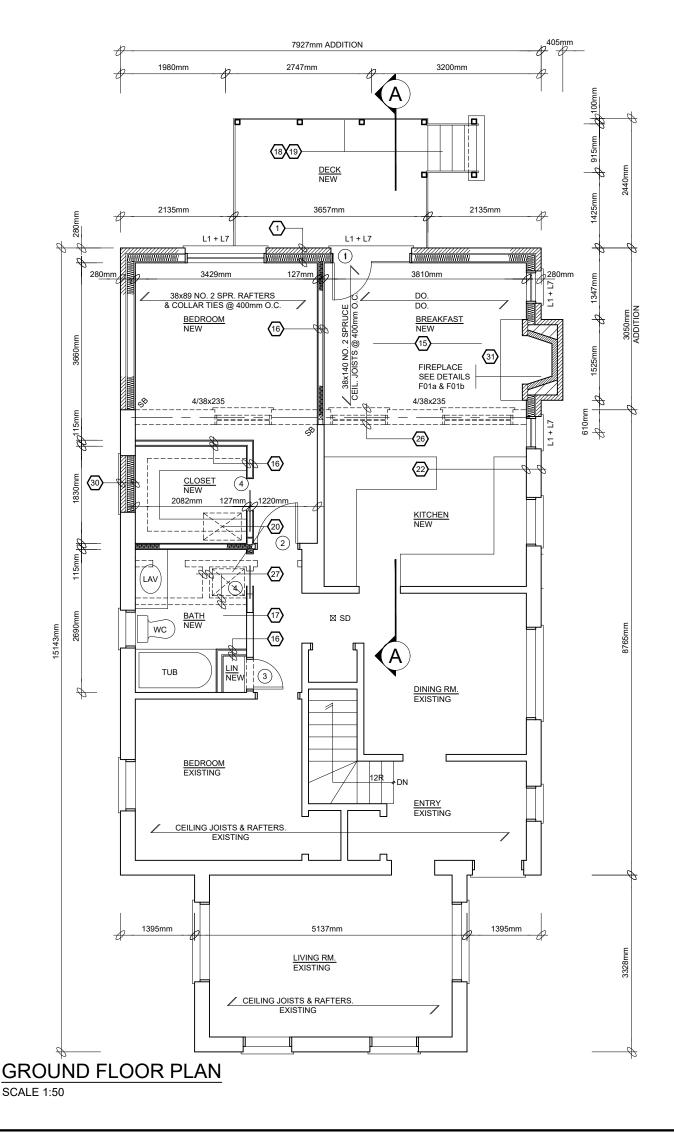
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OBOA

ONTARIO

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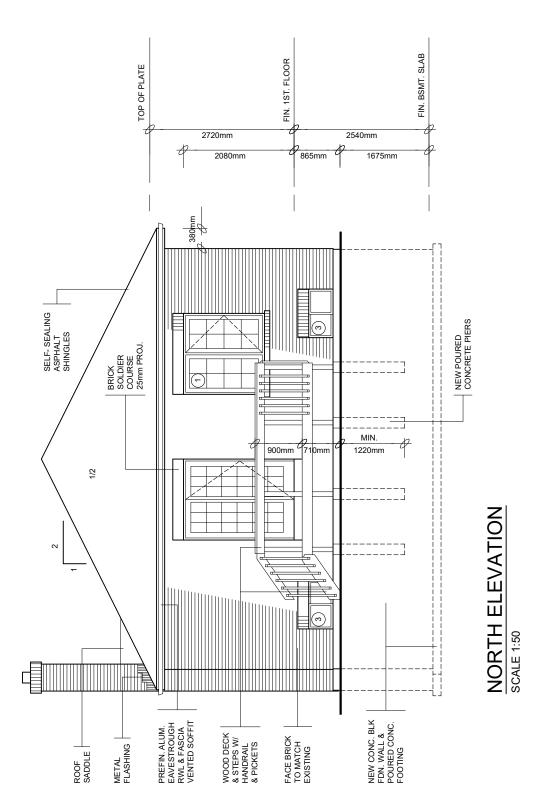
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ONTARIO

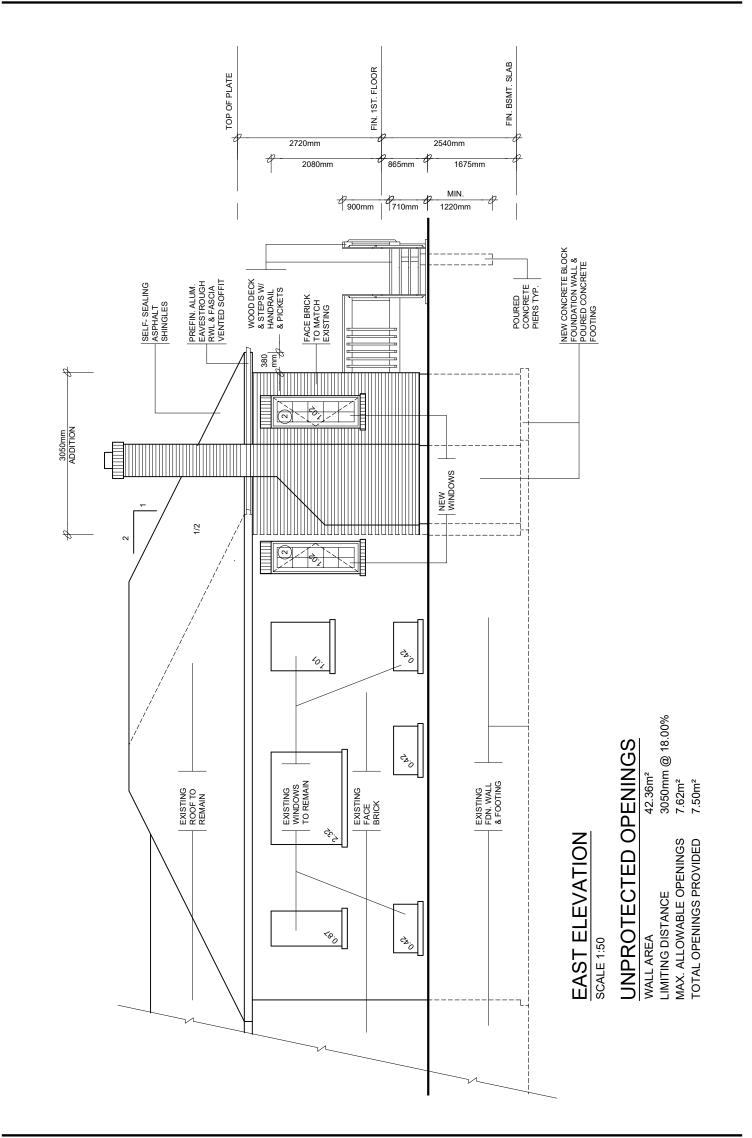
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SAMPLE DRAWING

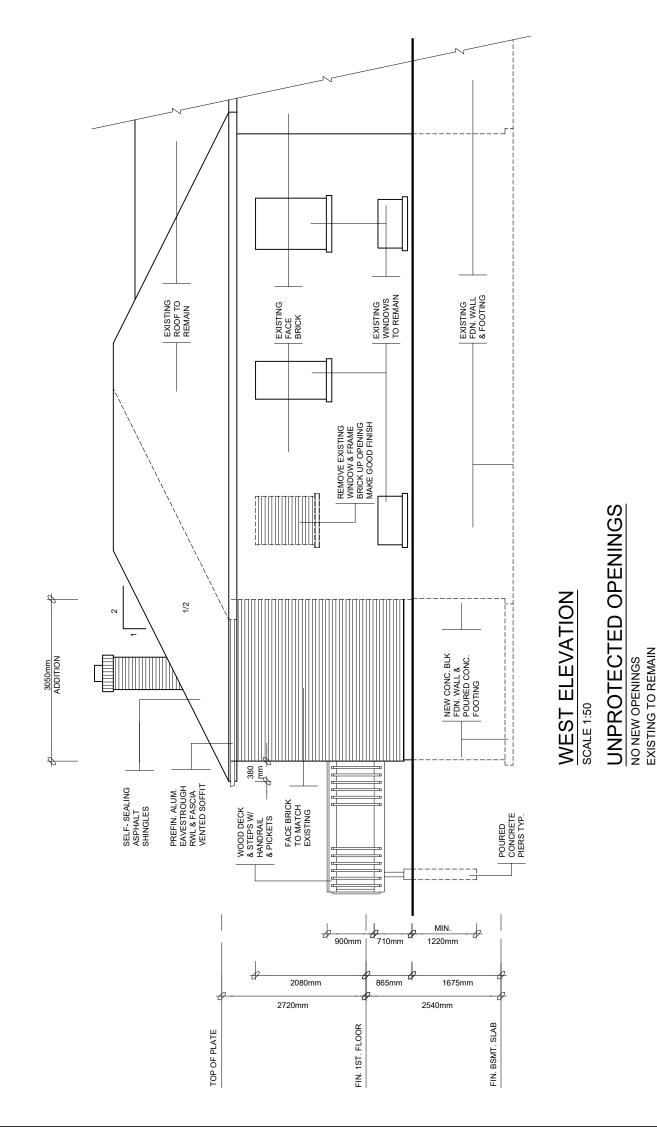
A03e

ELEVATION OBC 2024

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

OBOA

ONTARIO



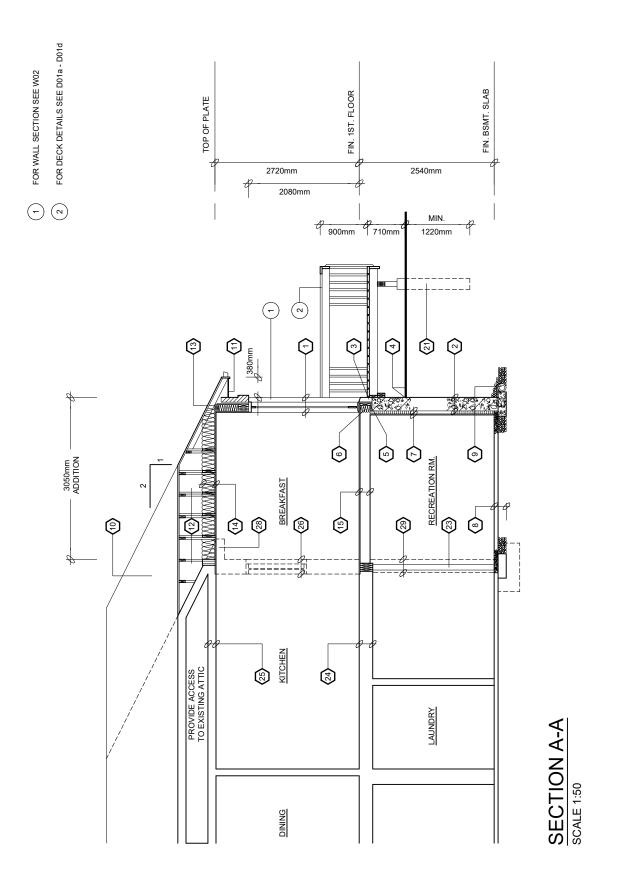
OBOA

ONTARIO E

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CONSTRUCTION SPECIFICATIONS

1 BRICK VENEER WALL

90mm FACE BRICK, 25mm AIR SPACE 0.76mm THICK x 22mm WIDE GALVANIZED METAL TIES INSTALLED W/ GALVANIZED SPIRAL NAILS OR SCREWS 400mm O.C. HORIZ, 600mm O.C. VERT. AIR BARRIERS, LAYERS TO OVERLAP EACH OTHER RSI 0.88 RIDGE INSULATION EXTERIOR TYPE SHEATHING 38x140 WOOD STUDS @ 400 O.C. RSI 3.34 BATT INSUL. IN CONTINUOUS CONTACT W/ EXTERIOR SHEATHING CONTACT W/ EXTERIOR SHEATHING CONTINUOUS AIR / VAPOUR BARRIER 12.7mm INTERIOR DRYWALL FINISH DOUBLE PLATE @ TOP SOLE PLATE @ BOTTOM

2 FOUNDATION WALL

BITUMINOUS DAMPPROOFING ON MINIMUM 6mm PARGING ON MINIMUM 6mm PARGING ON CONCRETE BLOCK FDN. WALL TOP BLOCK COURSE FILLED W/ MORTAR OR CONCRETE PROVIDE PARGING COVED OVER 450mmx150mm POURED CONC. FOOTING TO BEAR ON UNDISTURBED SOIL PROVIDE DRAINAGE LAYER

- MIN. 19mm MINERAL FIBRE INSULATION W/ A DENSITY OF NOT LESS THAN 57kg/m3. OR MIN. 100mm OF FREE DRAINING GRANULAR MATERIAL OR A B.M.E.C.APPROVED DRAINAGE LAYER MATERIAL

(3) BRICK VENEER @ FDN. WALL

0.5mm POLY FLASHING MINIMUM 150mm UP BEHIND SHEATHING PAPER WEEP HOLES @ MIN. 800mm APART

4 GRADE

SLOPE GRADE AWAY FROM BUILDING FACE & PROVIDE SEMI-SOLID BLOCK COURSE AT OR BELOW GRADE LEVEL

$\left< {}^5 \right> { m \underline{SILL}\ PLATE}$

38x140 SILL PLATE FASTENED 38X140 SILL PLATE FASTENED TO FOUNDATION WALL WITH MIN. 12.7mm DIA. ANCHOR BOLTS EMBEDDED MIN, 100mm IN CONCRETE @ 2400mm O.C. MAX. & PROVIDE A CONTINUOUS AIR BARRIER BETWEEN THE FOUNDATION WALL & WOOD FRAME CONSTRUCTION

6 FLOOR INSULATION

CONTINUOUS HEADER JOIST WITH RSI 5.46 BATT INSULATION, EXTEND VAPOUR / AIR BARRIER & SEAL TO JOIST AND SUBFLOOR

$\langle 7 \rangle$ FOUNDATION INSULATION

12.7mm INTERIOR FRYWALL FINISH 38x89 WOOD STRAPPING @ 400mm O.C. MIN. RSI 3.52 INSULATION W/ 0.15mm POLY VAPOUR BARRIER FULL HEIGHT. MOISTURE BARRIER TO HEIGHT OF EXTERIOR GRADE BETWEEN FOUNDATION WALL & WOOD FRAMING

\langle 8angle basement slab

75mm POURED CONCRETE SLAB (25MPa CONC. STRENGTH) 100mm CRUSHED STONE BELOW

9 DRAINAGE

100mm DIA. WEEPING TILE W/ 150mm CRUSHED STONE COVER

$\langle 10 \rangle$ **ROOF CONSTRUCTION**

20 YEAR ASPHALT SHINGLES W/ EAVES PROTECTION ON MIN. 9.5mm EXTERIOR PLYWOOD SHEATHING ON APPROVED ROOF TRUSSES OR CONVENTIONAL FRAMING (SEE PLANS) USE 'H' CLIPS IF 600mm O.C. SPACING

(11) OVERHANG CONSTRUCTION

PREFINISHED ALUMINUM FASCIA, EAVESTROUGH & RAIN WATER LEADERS TO MATCH EXISTING FINISHES. PROVIDE DRIP EDGE AT FASCIA & VENTED SOFFIT EXTEND DOWNSPOUTS TO GRADE LEVEL

(12) ROOF VENTILATION

1:300 OF THE INSULATED CEILING AREA UNIFORMLY DISTRIBUTED.

EAVES PROTECTION $\langle 13 \rangle$

EAVES PROTECTION MEMBRANE TO EXTEND FROM THE EDGE OF THE ROOF, 900mm UP THE SLOPE BUT NOT LESS THAN 300mm BEYOND THE INTERIOR FACE OF THE EXTERIOR WALL

(14) CEILING CONSTRUCTION

15 9mm INTERIOR DRYWALL FINISH CONTINUOUS AIR/ VAPOUR BARRIER W/ MIN. RSI 10.56 BATT INSULATION

(15) FLOOR CONSTRUCTION

15.5mm T&G PLYWOOD SUBFLOOR 15.5mm 1&G PLYWOOD SUBFLOOR 38x184 FLOOR JOISTS @ 400mm O.C. FLOOR JOISTS BRIDGED W/ CONTINUOUS 19mmx64mm STRIPPING OR 2 ROWS OF 38mmx38mm CROSS BRIDGING OR SOLID BLOCKING

(16) INTERIOR STUD PARTITION

12.7mm DRYWALL FINISH BOTH SIDES OF 38x89 WOOD STUDS @ 400mm O.C. 2 TOP PLATES & 1 BOTTOM PLATE PROVIDE REINFORCEMENT FOR FUTURE GRAB BAR INSTALLATION IN BATHROOM

MECHANICAL VENTILATION (17)

PROVIDE MIN. 5.0 L/S IN KITCHENS AND BATHROOMS 37.51/S FOR PRINCIPAL EXHAUST FAN

STAIRS INTERIOR / EXTERIOR $\langle 18 \rangle$

| MAXIMUM RISE | = | 200mm |
|------------------|---|--------|
| MINIMUM RISE | = | 125mm |
| MINIMUM RUN | = | 255mm |
| MAXIMUM RUN | = | 355mm |
| MINIMUM TREAD | = | 255mm |
| MAXIMUM TREAD | = | 380mm |
| MAXIMUM NOSING | = | 25mm |
| MINIMUM WIDTH | = | 860mm |
| MINIMUM HEADROOM | = | 1950mm |
| | | |
| 0114 000 | | |

GUARDS $\langle 19 \rangle$

1070mm

900mm

DECK TO GRADE IS: GREATER THAN 1800mm 1800mm OR LESS NO MEMBER OR ATTACHMENT BETWEEN 140mm & 900mm HIGH SHALL FACILITATE CLIMBING

$\langle 20 \rangle$ **ATTIC ACCESS**

GUARD HEIGHT IE

PROVIDE ATTIC ACCESS MIN. 545mmx588mm W/ INSULATION & WEATHER STRIPPING



PROVIDE 200mm SIA. SONO TUBE FOR POURED CONCRETE PIERS MINIMUM 1200mm BELOW GRADE

- EXISTING SOLID MASONRY EXTERIOR WALL TO REMAIN 〈22〉
- 73mm DIA, PIPE COLUMN W/ (23) 100mmx100mmx6.35mm TOP & BOTTOM PLATE 1mx1mx450mm CONCRETE FOOTING
- EXISTING FLOOR STRUCTURE TO REMAIN $\langle 24 \rangle$
- EXISTING CEILING STRUCTURE $\langle 25 \rangle$ TO REMAIN
- REMOVE EXISTING EXTERIOR WALL AS SHOWN DOTTED $\langle 26 \rangle$
- REMOVE EXISTING INTERIOR STUD $\langle 27 \rangle$ PARTITIONS AS SHOWN DOTTED
- $\langle 28 \rangle$ REMOVE EXISTING ROOF OVERHANG AS SHOWN DOTTED
- REMOVE EXISTING FOUNDATION WALL $\langle 29 \rangle$ AS SHOWN DOTTED
- **REMOVE EXISTING WINDOW & FRAME** $\langle 30 \rangle$ MAKE GOOD OPENING W/ BRICK TO MATCH EXISTING ON THE EXTERIOR
- INSTALL A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL 2034 (31)



| RO | ROOM FINISH SCHEDULE | | | | | | | | | | |
|-----|----------------------|-----------------|-----------------|----------|--------|----------|--------|----------|--------|--------|-------------------------|
| | ROOM NAME | FLOOR | | BASE | | WALLS | | CEILING | | | REMARKS |
| NO. | | MATERIAL | FINISH | MATERIAL | FINISH | MATERIAL | FINISH | MATERIAL | FINISH | HEIGHT | |
| | FIRST FLOOR | | | | | | | | | | |
| 1 | KITCHEN | CERAMIC TILE | | WOOD | PAINT | DRYWALL | PAINT | DRYWALL | PAINT | 2720mm | |
| 2 | BREAKFAST | WOOD | STAIN | WOOD | PAINT | DRYWALL | PAINT | DRYWALL | PAINT | 2720mm | MAPLE TO MATCH EXISTING |
| 3. | BEDROOM | WOOD | STAIN | WOOD | PAINT | DRYWALL | PAINT | DRYWALL | PAINT | 2720mm | MAPLE TO MATCH EXISTING |
| 4. | CLOSET | WOOD | STAIN | WOOD | PAINT | DRYWALL | PAINT | DRYWALL | PAINT | 2720mm | MAPLE TO MATCH EXISTING |
| 5. | BATH | CERAMIC TILE | | WOOD | PAINT | DRYWALL | PAINT | DRYWALL | PAINT | 2720mm | |
| | | | | | | | | | | | |
| | BASEMENT | | | | | | | | | | |
| 6. | REC. ROOM | CONC. | CERAMIC TILE | WOOD | PAINT | DRYWALL | PAINT | | | 2340mm | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| DOOR SCHEDULE | | | | | | | | |
|---------------|-------------|-----------------|------|-------------|--|--|--|--|
| DOOR SCHEDULE | | | | | | | | |
| NO. | TYPE | SIZE | QTY. | REMARKS | | | | |
| 1. | EXTERIOR | 1525mm x 2030mm | 1. | FRENCH DOOR | | | | |
| 2 | SLAB | 760mm x 2030mm | 1. | 800 SERIES | | | | |
| 3. | SLAB | 610mm x 2030mm | 1. | 800 SERIES | | | | |
| 4.) | POCKET DOOR | 610mm x 2030mm | 2. | | | | | |
| | | | | | | | | |
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| LINTEL SCHEDULE | | | | | | | | | |
|-----------------|----------------------|--|--|--|--|--|--|--|--|
| NO. | DESCRIPTION | | | | | | | | |
| | 2-38x184 SPRUCE | | | | | | | | |
| \bigcirc | 3-38x184 SPRUCE | | | | | | | | |
| (3) | 2-38x235 SPRUCE | | | | | | | | |
| (4) | 3-38x235 SPRUCE | | | | | | | | |
| (5) | 2-38x286 SPRUCE | | | | | | | | |
| 6 | 3-38x286 SPRUCE | | | | | | | | |
| \bigcirc | 90mm x 90mm x 6mm L | | | | | | | | |
| (13) | 90mm x 90mm x 8mm L | | | | | | | | |
| (9 | 100mm x 90mm x 6mm L | | | | | | | | |
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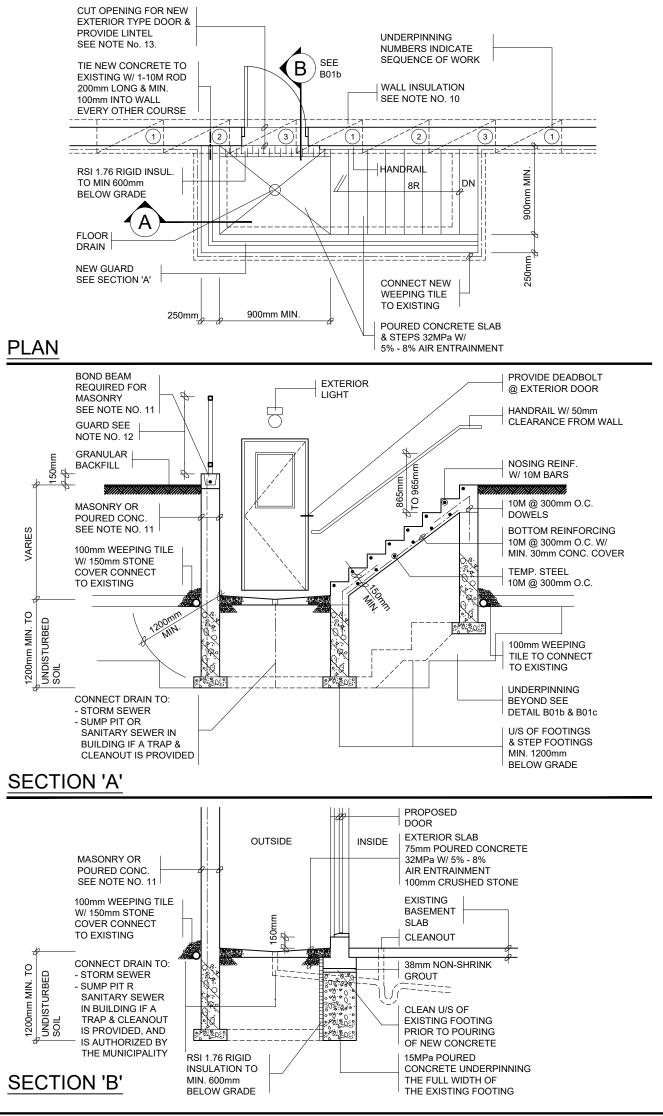
- DUPLEX OUTLET (WEATHERPROOF)
- € $\bigoplus \sqrt{2}$ DUPLEX OUTLET (HGT. ABOVE FLR.)
 - DUPLEX OUTLET (300mm ABOVE FLR.)
 - EXHAUST FAN
- - 10-SWITCH
- ₩НВ HOSE BIB ⊠SD
- SMOKE DETECTOR ۲ HEAVY DUTY OUTLET
- þ-LIGHT FIXTURE (WALL MOUNTED)
- ġ LIGHT FIXTURE (CEILING MOUNTED)
 - POT LIGHT FIXTURE
- R LIGHT FIXTURE (WATER RESISTANT) \bigcirc LIGHT FIXTURE (CAPPED)
- FL FLUORESCENT LIGHT FIXTURE
- ⊠∽⊗ SOLID WOOD BEARING
- FD FLOOR DRAIN
 - TV CABLE OUTLET
- \triangleleft TELEPHONE OUTLET
- COMPUTER OUTLET ©
- DE DRYER EXHAUST

| w | WINDOW SCHEDULE ONE WINDOW PER FLOOR TO HAVE AN UNOBSTRUCTED OPEN PORTION W/ A MIN. AREA OF 0.35m2 W/ NO DIMENSION LESS THAN 380mm & MAXIMUM SILL HEIGHT OF 1M ABOVE FLOOR | | | | | |
|-----|--|-----------------|------|---------------------|--|--|
| NO. | TYPE | SIZE | QTY. | REMARKS | | |
| 1. | CASEMENT | 1525mm x 1525mm | 1. | MAXIMUM U-VALUE 1.8 | | |
| 2 | CASEMENT | 610mmx 1525mm | 2. | MAXIMUM U-VALUE 1.8 | | |
| 3 | SLIDER 915mmx 450mm | | 2. | MAXIMUM U-VALUE 1.8 | | |
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Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

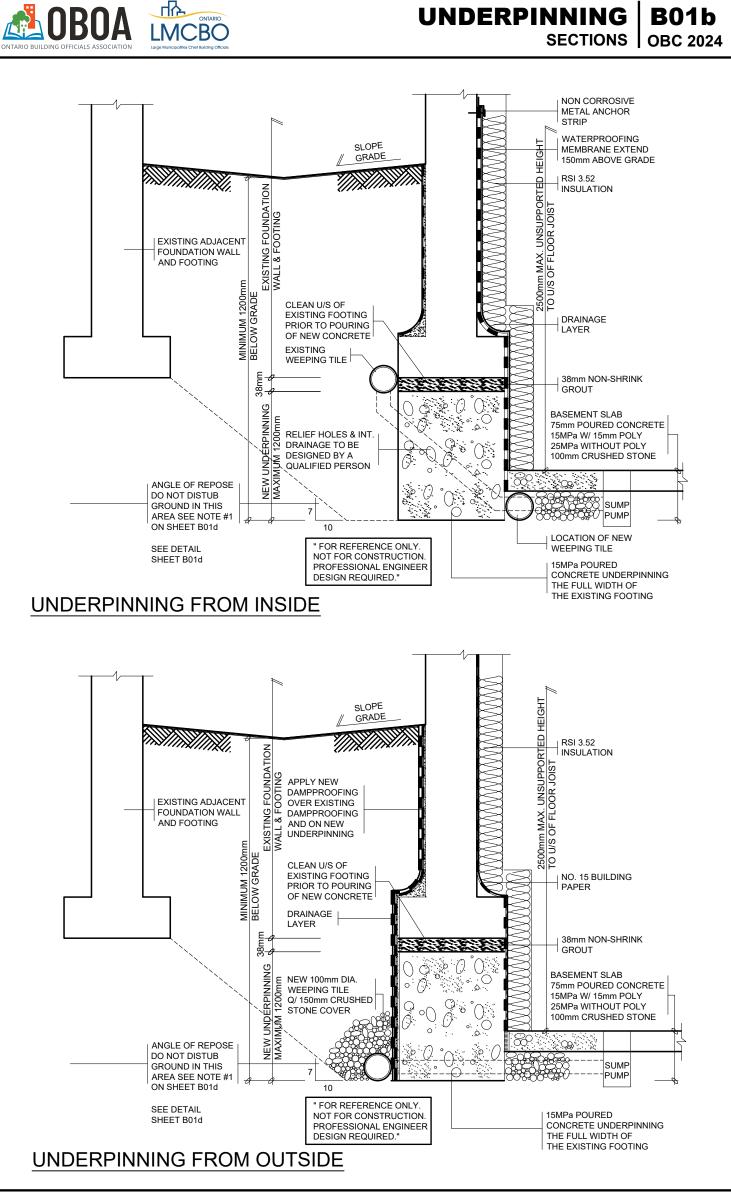


PLANS & SECTIONS | OBC 2024



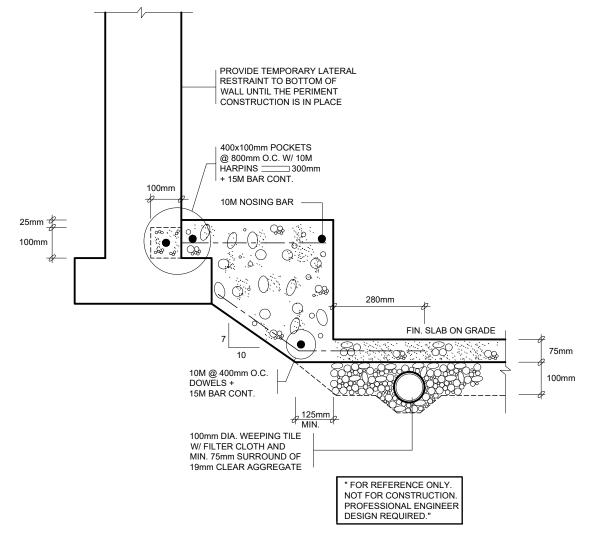
Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1





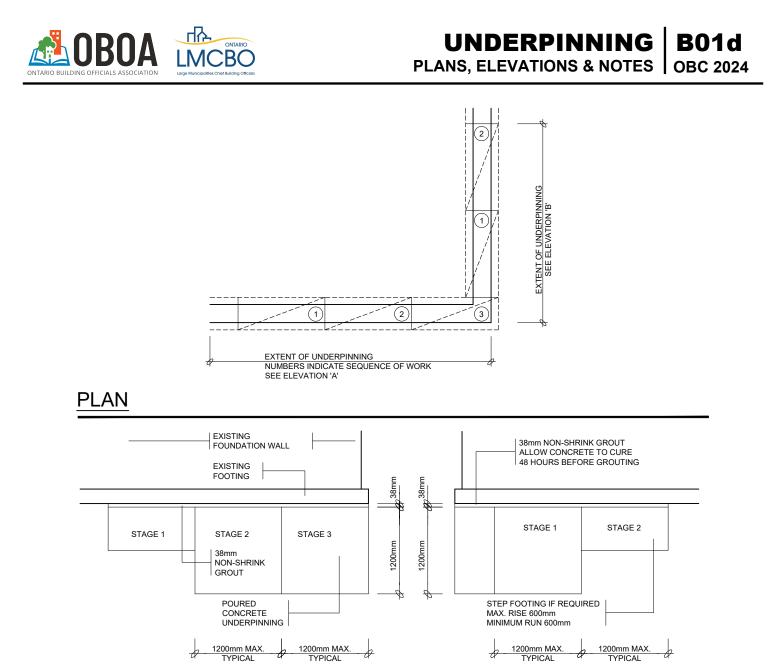
LOWERING OF BASEMENT FLOOR SLAB FROM INSIDE

GENERAL NOTES

- 1. EXCAVATION FOR THE PROPOSED WORK SHOULD NOT UNDERMINE THE FOUNDATIONS OF ADJOINING BUILDINGS, OR CAUSE DAMAGE TO UTILITIES, ROADS AND SIDEWALKS. A MAXIMUM 7:10 ANGLE OF REPOSE SHALL BE MAINTAINED UNLESS OTHERWISE CERTIFIED BY A GEOTECHNICAL ENGINEER.
- 2. PROVIDE ALL BRACING, SHORING AND NEEDLING NECESSARY FOR THE SAFE EXECUTION OF THIS WORK.
- 3. CONCRETE STRENGTH SHALL BE A MINIMUM 15MPa AT 28 DAYS.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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ELEVATION 'A'

GENERAL NOTES

- 1. WHERE THE FOUNDATIONS OF A BUILDING ARE TO BE CONSTRUCTED BELOW THE LEVEL OF THE FOOTINGS OF AN ADJACENT BUILDING AND WITHIN THE ANGLE OF REPOSE OF THE SOIL, OR THE UNDERPINNING EXCEEDS 1200mm OF LATERALLY UNSUPPORTED HEIGHT OR THE SOIL IS CLAY OR SILT, THE UNDERPINNING & RELATED CONSTRUCTION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- 2. EXCAVATION SHALL BE UNDERTAKEN IN A MANNER SO AS TO PREVENT MOVEMENT WHICH WOULD CAUSE DAMAGE TO ADJACENT PROPERTY, STRUCTURES, UTILITIES, ROADS & SIDEWALKS. CONTACT YOUR LOCAL UTILITIES PRIOR TO COMMENCING EXCAVATION.
- MINIMUM CONCRETE STRENGTH FOR UNDERPINNING SHALL BE 15MPa AT 28 DAYS. ALL EXTERIOR CONCRETE SHALL BE 32MPa W/ 5%-8% AIR ENTRAINMENT.
- 4. CONCRETE SHALL BE CURED MINIMUM 48 HOURS BEFORE GROUTING AND PROCEEDING TO THE NEXT STAGE.
- SHORE & BRACE WHERE NECESSARY TO ENSURE THE SAFETY & STABILITY OF THE EXISTING STRUCTURE DURING UNDERPINNING.
- 6. WEEPING TILE IS TO DRAIN TO THE STORM SEWER, DITCH, DRYWELL OR INSTALL COVERED SUMP PIT WITH AN AUTOMATIC PUMP.
- 7. FOOTINGS 450mm x 100mm POURED CONC. FOOTING ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED GRANULAR FILL
 - "FOR REFERENCE ONLY. NOT FOR CONSTRUCTION. PROFESSIONAL ENGINEER DESIGN REQUIRED."

- <u>CONCRETE</u> MINIMUM COMPRESSIVE STRENGTH OF 32MPa @ 28 DAYS W/ 5% TO 8% AIR ENTRAINMENT
- 9. EXTERIOR STAIRS 200mm RISE MAXIMUM 255mm RUN MINIMUM 255mm TREAD MINIMUM 380mm MAXIMUM

ELEVATION 'B'

- 10. INSULATION - MIN. RSI 4.23 (R24) INSULATION & VAPOUR BARRIER ON THE INSIDE FACE OF THE EXPOSED FOUNDATION WALL - MIN. RSI 1.76 (R10) INSULATION FOR 600mm BELOW GRADE AT WALKOUT LANDING
- 11. <u>RETAINING WALL</u> 250mm MASONRY OR POURED CONCRETE W/ NO REINFORCING REQUIRED FOR WALL HEIGHTS TO A MAX. OF 1200mm PROVIDE 25M VERTICAL REINFORCEMENT @ 600mm O.C. AND A BOND BEAM CONTAINING AT LEAST ONE 15M REINFORCEMENT FOR BACKFILL HEIGHTS TO A MAX. OF 2400mm
- 12. <u>PRE-ENGINEERED GUARDS</u> 1070mm HIGH WHERE DISTANCE FROM GRADE TO BOTTOM OF WALKOUT EXCEEDS 1800mm; 900mm FOR LESSER HEIGHTS. MAXIMUM 100mm BETWEEN VERTICAL PICKETS
- LINTELS (FOR MAX. 1200mm OPENINGS)
 SOLID MASONRY: 2- 90mm x 90mm x 6mm ANGLES
 BRICK VENEER: 1- 90mm x 90mm x 6mm L + 2-38x184
 WOOD FRAME/SIDING: 2-38 x 184

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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BASEMENT SUITE | B02a EXISTING BUILDING OBC 2024

MINIMUM ROOM AREAS (OBC 9.5.3A - 9.5.3F)

| APARTMENTS FOR ONE OR TWO PERSONS WHERE SPACE IS NOT PARTITIONED | | | | | |
|--|---|--|--|--|--|
| REQUIRED SPACE | MINIMUM AREA | | | | |
| LIVING, DININS, KITCHEN 4 SLEEPING SPACE | 13.5m ² IN TOTAL | | | | |
| OTHER PARTITIONED APARTMENTS | | | | | |
| LIVING AREA | 13.5m ² | | | | |
| | 11.0m ² IF LIVING AREA IS COMBINED W/ DINING & KITCHEN SPACE | | | | |
| DINING AREA | 7.0m ² | | | | |
| | 3.25m ² IF DINING AREA IS COMBINED W/ ANOTHER SPACE | | | | |
| KITCHEN | 3.7m ² | | | | |
| | 9.8m ² | | | | |
| AT LEAST CNE BEDROOM | 8.8m ² IF A BUILT IN CLOSET IS PROVIDED | | | | |
| | 4.2m ² IF THE BEDROOM AREA IS COMBINED W/ ANOTHER SPACE | | | | |
| | 7.0m ² | | | | |
| OTHER BEDROOMS | 6.0m ² IF A BUILT IN CLOSET IS PROVIDED | | | | |
| | 4.2m ² IF THE BEDROOM AREA IS COMBINED W/ ANOTHER SPACE | | | | |

MINIMUM CEILING HEIGHT SHALL BE NOT LESS THAN 1950mm [OBC 9.5.3.1.(2)] CLEAR HEIGHT UNDER BEAMS AND DUCTING SHALL BE NOT LESS THAN 1.85mm [OBC 9.5.3.1.(3)]

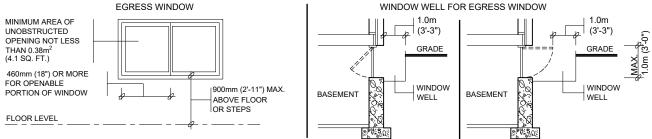
MINIMUM WINDOW AREAS FOR LIGHT [OBC 9.7.2.3., 11.5.1.1.-C: C79]

| LOCATION | MINIMUM UNOBSTRUCTED CLASS AREA |
|--|---------------------------------|
| LAUNDRY ROOM, KITCHEN, WATER CLOSET ROOM | WINDOWS NOT REQUIRED |
| LIVING/DINING ROOMS | 5% OF FLOOR AREA |
| BEDROOMS AND OTHER FINISHED ROOMS | 2 1/2% OF FLOOR AREA |

WHERE A POOR ON THE SAME LEVEL AS A BEDROOM IS NOT PROVIDED, A WINDOW THAT IS ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF TOOLS PROVIDING AN INDIVIDUAL UNOBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA OF 0.35m² WITH NO DIMENSION LESS THAN 380mm SHALL BE PROVIDED. IF THIS WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 550mm SHALL BE PROVIDED IN FRONT OF THE OPERATING SASH. NEW OPENINGS IN EXTERIOR WALLS ARE NOT PERMITTED IF THE DISTANCE FROM THE WALL TO AN ADJACENT LOT LINE IS LESS THAN 1200mm. •

EGRESS REQUIREMENTS

| EGRESS PROVIDED FROM APARTMENT | CONDITIONS |
|--|---|
| A SEPARATE DOOR LEADING DIRECTLY TO THE EXTERIOR FROM THE ACCESSORY APARTMENT | SMOKE ALARMS IN EACH DWELLING |
| A 'SHARED EXIT', SUCH AS A STAIRWAY USED BY BOTH UNITS | 1/2 HOUR FIRE SEPARATION AROUND EXIT, AND INTERCONNECTED SMOKE ALARMS IN BOTH UNITS AND ALL COMMON AREAS. |
| EGRESS AVAILABLE ONLY THROUGH ANOTHER DWELLING | AN EGRESS WINDOW MUST BE PROVIDED. INTERCONNECTED SMOKE ALARMS MUST BE INSTALLED IN BOTH UNITS, AND ALL COMMON AREAS, OR THE ENTIRE BUILDING MUST BE SPRINKLERED, AND SMOKE ALARMS INSTALLED IN BOTH UNITS. |
| EGRESS WINDOW | WINDOW WELL FOR EGRESS WINDOW |



| SEPARATION BETWEEN UNITS [OBC 9.10.9.16., 11.5.1.1C: C156] | | | | |
|---|--|--|--|--|
| REQUIRED FIRE SEPARATIONS/CLOSURES | CONDITIONS | | | |
| 50 MINUTE FIRE SEPARATION (12.7mm TYPE 'X' GYPSUM BD. CEILING) | SMOKE ALARM IN BOTH UNITS | | | |
| 15 MINUTE HORIZONTAL FIRE SEPARATION | INTERCONNEOTED SMOKE ALARMS IN BOTH UNITS AND IN ALL COMMON AREAS | | | |
| NO FIRE SEPARATIONS | THE ENTIRE BUILDING MUST BE SPRINKLERED | | | |
| 20 MINUTE LABELED DOORS, UNLABELED MINIMUM 45mm THICK SOLID CORE WOOD DOOR OR METAL CLAD | EQUIPPED WITH SELF CLOSERS | | | |
| UNRATED CLOSURES | THE APARTMENT FLOOR AREA MUST BE SPRINKLERED | | | |

REQUIRED FIRE SEPARATION CAN BE WAIVED WHEN A CONTINUOUS SMOKE-TIGHT BARRIER OF NOT LESS THAN 15.9mm TYPE 'X' GYPSUM BOARD INSTALLED ON BOTH SIDES OF WALLS AND UNDERSIDE OF FLOOR-CEILING [OBC 9.10.9.16.(4)]

SMOKE ALARMS AND CARBON MONOXIDE DETECTORS

| REQUIRED SMOKE ALARMS WITHIN EACH DWELLING UNIT BETWEEN THE BED RM. AND REMAINDER OF SUITE AND IN EACH BED RM. | MAY BE BATTERY OPERATED EXCEPT WHERE SMOKE ALARMS ARE REQUIRED TO BE INTERCONNECTED DUE TO SEPARATION BETWEEN UNITS AND EGRESS REQUIREMENTS . ALARMS MUST BE LOCATED ON OR NEAR THE CEILING WITHIN 5M OF BEDROOM DOORS. | | |
|--|---|--|--|
| REQUIRED CARBON MONOXIDE DETECTORS WITHIN EACH DWELLING UNIT ADJACENT TO EACH SLEEPING AREA | MUST CONFORM TO CAN/CSA-6.19 OR UL 2034. CO DETECTORS MAY BE BATTERY OPERATED OR PLUGGED INTO AN ELECTRICAL OUTLET. | | |
| REQUIRED VISUAL DEVICE BY EACH SMOKE ALARM | MUST CONFORM TO 18.5.3 OF NFPA 72 & INTERCONNECTED TO SMOKE ALARMS | | |

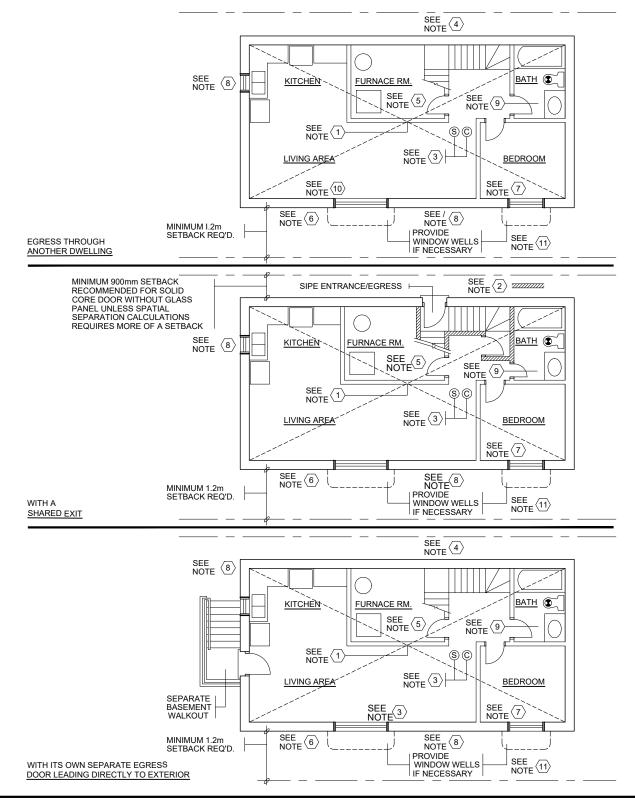
PLUMBING, HEATING AND VENTILATION

| CENTRAL HEATING SYSTEM | EXISTING SYSTEM MAY SERVE BOTH UNITS PROVIDED i) BOTH UNITS ARE EQUIPPED WITH SMOKE ALARMS, AND ii) A SMOKE DETECTOR IS INSTALLED IN THE SUPPLY OR RETURN AIR DUCT SYSTEM WHICH WOULD TURN OFF THE FUEL SUPPLY AND ELECTRICAL POWER TO THE HEATING SYSTEM UPON ACTIVATION. |
|--|--|
| NATURAL VENTILATION (OPENABLE WINDOWS/DOORS) FOR LIVING/DINING ROOMS, BEDROOMS, KITCHEN | MINIMUM 0.28m ² (3 SQ. FT.) PER ROOM OR COMBINATION OF ROOMS |
| NATURAL VENTILATION (OPENABLE WINDOW) FOR BATHROOMS OR WATER CLOSET ROOMS | MINIMUM 0.09m ² (0.97 SQ. FT.) |
| MECHANICAL VENTILATION, IF NATURAL VENTILATION IS NOT PROVIDED | ONE-HALF AIR CHANGE PER HOUR IF THE ROOM IS MECHANICALLY COOLED IN SUMMER, AND ONE AIR CHANGE PER HOUR IF IT IS NOT. |
| REQUIRE | ED PLUMBING FACILITIES |
| KITCHEN SINK LAUNDRY FACILITIES | BATHROOM WITH LAVATORY, TOILET AND BATHTUB OR SHOWER STALL |

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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NOTES RELATED TO BASEMENT SECONDARY SUITES:

JBOA

MINIMUM 30-MINUTE FIRE SEPARATION UNLESS INTERCONNECTED 1 SMOKE ALARMS ARE PROVIDED IN BOTH UNITS AND ALL COMMON AREAS.

IN WHICH CASE, A 15-MINUTE FIRE SEPARATION WOULD ONLY BE REQUIRED. INSTALLING SPRINKLERS THROUGHOUT THE BUILDING WOULD WAIVE ALL FIRE SEPARATION REQUIREMENTS. [11.5.1.1.-C, C156] MINIMUM 30-MINUTE FIRE SEPARATION AROUND SHARED EXIT.

- 2. [11.5.1.1.-C, C157] NO FIRE SEPARATIONS ARE REQUIRED WHEN CONTINUOUS SMOKE-TIGHT BARRIER (15.9 MM TYPE 'X' GYPSUM BOARD) INSTALLED ON BOTH SIDES OF WALLS, AND THE UNDERSIDE OF FLOOR-CEILING FRAMING. [9.10.9.16.(4)]
- SEE REQUIRED INSTALLATION INFORMATION FOR SMOKE ALARMS & 3 CARBON MONOXIDE DETECTORS ON ATTACHED SHEET B02a. STAIRWELL TO BE ENCLOSED AT TOPMOST, OR AT BOTTOM MOST
- 4. LEVELS.
- EXISTING FURNACE MAY SERVE BOTH UNITS PROVIDED A SMOKE 5 DETECTOR IS INSTALLED IN THE SUPPLY OR RETURN AIR DUCT SYSTEM WHICH WOULD TURN OFF THE FUEL SUPPLY AND ELECTRICAL POWER TO THE HEATING SYSTEM UPON ACTIVATION OF SUCH DETECTOR [9.10.18.5.(1)]
- MINIMUM 5% OF LIVING/DINING FLOOR AREA OF NATURAL LIGHT 6 (GLASS AREA) TO BE PROVIDED. [11.5.1.1.-C, C79]

- MINIMUM 2 1/2% OF BEDROOM AND OTHER FINISHED ROOMS FLOOR 7 AREAS OF NATURAL LIGHT (GLASS AREA) TO BE PROVIDED. [11.5.1.1.-C, C80]
- THREE SQ. FT. CLEAR OPENING OF NATURAL VENTILATION REQUIRED 8. FOR LIVING/DINING, BEDROOMS, AND KITCHEN. [TABLE 9.32.2.2.]
- ONE SQ. FT. CLEAR OPENING OF NATURAL VENTILATION REQUIRED FOR BATHROOMS. MECHANICAL VENT PROVIDING 1 AIR CHANGE PER 9 HOUR IS ACCEPTABLE. [TABLE 9.32.2.2.]
- AN EGRESS WINDOW OR CASEMENT WINDOW, AS DESCRIBED ON 10 ATTACHED SHEET, MUST BE PROVIDED IN THE ACCESSORY APARTMENT. OR, THE ENTIRE BUILDING IS TO BE SPRINKLERED AND SMOKE ALARMS INSTALLED IN BOTH UNITS.
- FOR WINDOWS USED AS MEANS OF ESCAPE, WITHIN WINDOW WELLS, 11. SEE ATTACHED SHEET FOR CLEARANCES. LAUNDRY FACILITIES SHALL BE PROVIDED IN EACH DWELLING UNIT
- 12 OR GROUPED IN A LOCATION IN THE BUILDING ACCESSIBLE TO OCCUPANTS OF EACH DWELLING UNIT. [9.31.4.1A.]
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN EACH 13. RESIDENTIAL SUITE. [9.32.3.9A.]
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN EACH SLEEPING 14 ROOM, ADJACENT TO EACH SLEEPING ROOM, AND ON EACH STOREY WITHOUT A SLEEPING ROOM. [9.32.3.9A.]

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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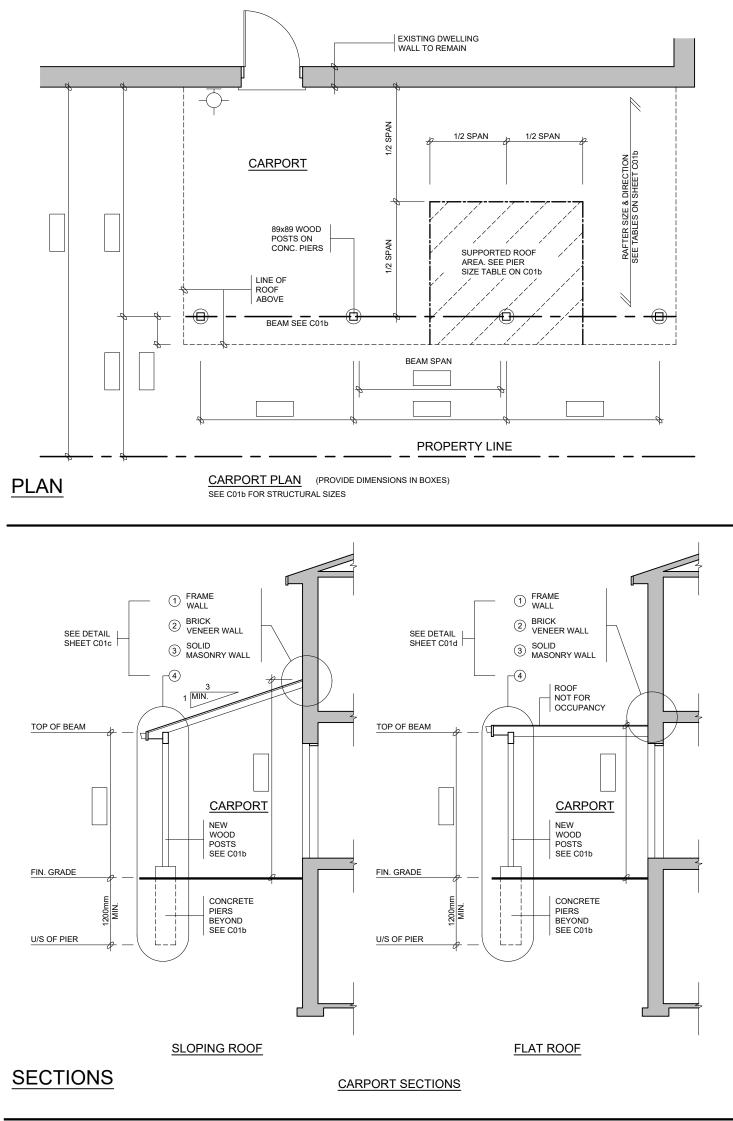
REVISION 01 - APRIL 2025

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ATTACHED CARPORT | C01a

SLOPING & FLAT ROOF - PLAN & SECTIONS OBC 2024



Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1



ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | |
|------------------------|--------------------------|----------------|------|--------------------------|------|------|--|
| RAFTER | ROOF SNO | W LOAD 1.0 kPa | l | ROOF SNOW LOAD 1.5 kPa | | | |
| SIZE | RAFTER SPACING (mm) O.C. | | | RAFTER SPACING (mm) O.C. | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | |
| 38x89 | 3.11 | 2.83 | 2.47 | 2.72 | 2.47 | 2.16 | |
| 38x140 | 4.90 | 4.45 | 3.89 | 4.28 | 3.89 | 3.40 | |
| 38x184 | 3x184 6.44 5.85 5.11 | | | | 5.11 | 4.41 | |
| 38x235 | 8.22 | 7.47 | 6.38 | 7.18 | 6.52 | 5.39 | |

ROOF JOISTS (WHERE CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | |
|------------------------|-------------------------|------|------|-------------------------|------|------|--|
| | ROOF SNOW LOAD 1.0 kPa | | | ROOF SNOW LOAD 1.5 kPa | | | |
| JOIST SIZE | JOIST SPACING (mm) O.C. | | | JOIST SPACING (mm) O.C. | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | |
| 38x89 | 2.47 | 2.24 | 1.96 | 2.16 | 1.96 | 1.71 | |
| 38x140 | 3.89 | 3.53 | 3.08 | 3.40 | 3.08 | 2.69 | |
| 38x184 | 5.11 | 4.64 | 4.05 | 4.46 | 4.05 | 3.54 | |
| 38x235 | 6.52 | 5.93 | 5.18 | 5.70 | 5.18 | 4.52 | |

ROOFING

| ROOF FRAMING (mm) O.C. | ROOF SHEATHING | |
|---------------------------|--|--|
| RAFTERS @ 300 | 7.5mm PLYWOOD W/ H-CLIPS OR | |
| RAFTERS @ 400 | 17mm LUMBER | |
| RAFTERS @ 600 | 9.5 PLYWOOD W/ H-CLIPS OR 19mm LUMBER | |

BEAMS

| MAXIMUM CLEAR SPAI | MINIMUM BEAM SIZE | |
|-----------------------|-------------------------|------------|
| ROOF SNOV | SIZE | |
| 1.0 kPa | | |
| 2.35 | 2.02 | 2 - 38x184 |
| 2.88 2.47 | | 2 - 38x235 |
| 3.34 | 2.87 | 2 - 38x286 |

FLOOR JOISTS

| | SUPPORTED ROOF AREA (m ²) | | | | | |
|-----------|---------------------------------------|---------|---------|---------------------------------------|---------|---------|
| PIER | ROOF SNOW LOAD 1.0 kPa | | | ROOF SNOW LOAD 1.5 kPa | | |
| SIZE (mm) | ALLOWABLE BEARING CAPACITY OF SOIL | | | ALLOWABLE BEARING CAPACITY OF SOIL | | |
| | 75 kPa | 120 kPa | 190 kPa | 75 kPa | 120 kPa | 190 kPa |
| 200 DIA. | 1.95 | 3.25 | 5.48 | 1.39 | 2.32 | 3.62 |
| 250 DIA. | 3.07 | 5.11 | 8.08 | 2.14 | 3.62 | 5.76 |
| 300 DIA. | 4.37 | 7.34 | 11.71 | 3.16 | 5.20 | 8.36 |
| 350 DIA. | 5.95 | 9.94 | 15.87 | 4.27 | 7.06 | 11.33 |
| 400 DIA. | 7.62 | 13.01 | 20.72 | 5.48 | 9.29 | 14.77 |

FLOOR JOISTS

| POST | MAX. | SUPPORTED ROOF AREA (m ²) | | | | | | | | |
|--------------|--------|---------------------------------------|----------------------|-------|-------|------|--|--|--|--|
| SIZE (mm) | HEIGHT | | ROOF SNOW LOAD (kPa) | | | | | | | |
| (SEE NOTE 5) | (m) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | | | | |
| 89x89 | 1.0 | 17.19 | 12.98 | 10.43 | 8.71 | 7.48 | | | | |
| | 1.5 | 9.39 | 7.09 | 5.69 | 4.76 | 4.09 | | | | |
| | 2.0 | 4.98 | 3.76 | 3.02 | 2.53 | 2.17 | | | | |
| | | | | | | | | | | |
| | 2.0 | 21.65 | 16.35 | 13.13 | 10.98 | 9.43 | | | | |
| 140x140 | 2.5 | 14.77 | 11.15 | 8.96 | 7.48 | 6.43 | | | | |
| | 3.0 | 10.06 | 7.60 | 6.10 | 5.10 | 4.38 | | | | |
| | 3.5 | 6.98 | 5.27 | 4.23 | 3.54 | 3.04 | | | | |

GENERAL NOTES

1. ALL LUMBER TO BE NO. 1 & 2 SPF OR BETTER.

2. ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE.

3. WHERE SUPPORTED ROOF AREAS EXCEED THOSE LISTED IN THIS TABLE, THE POSTS SHALL BE BRACED AS SHOWN IN D01c.

4. WOOD POSTS TO BE MINIMUM 89mmx89mm.

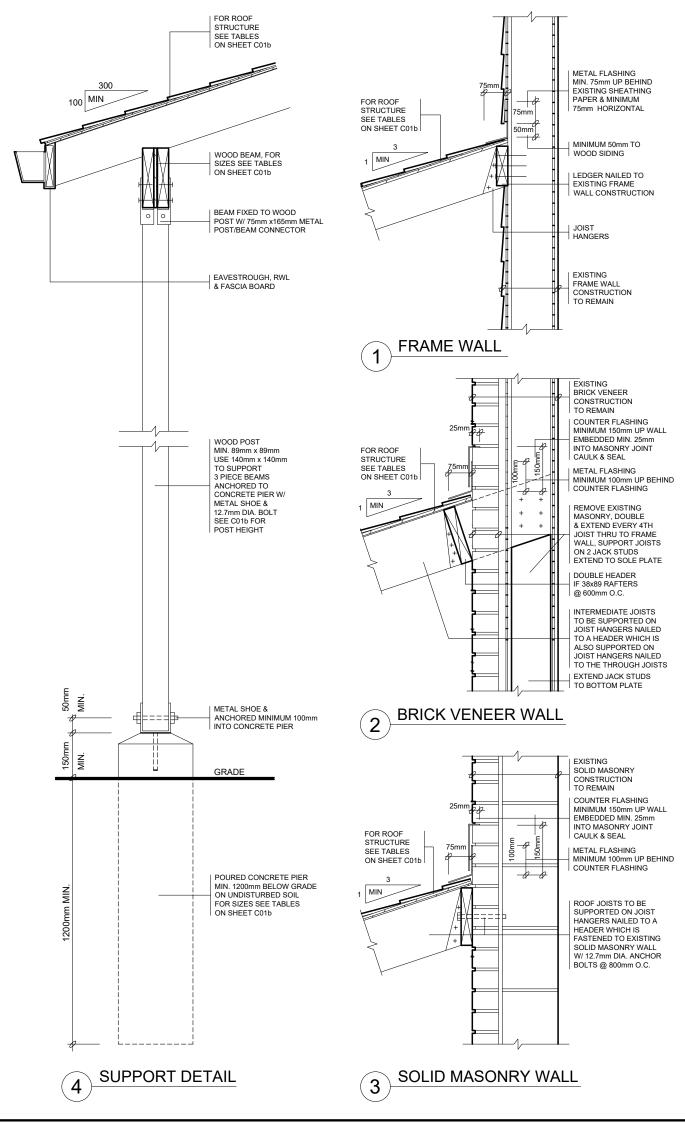
5. BEARING CAPACITY OF SOIL SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1



ATTACHED CARPORT | C01c

SLOPING ROOF DETAILS OBC 2024



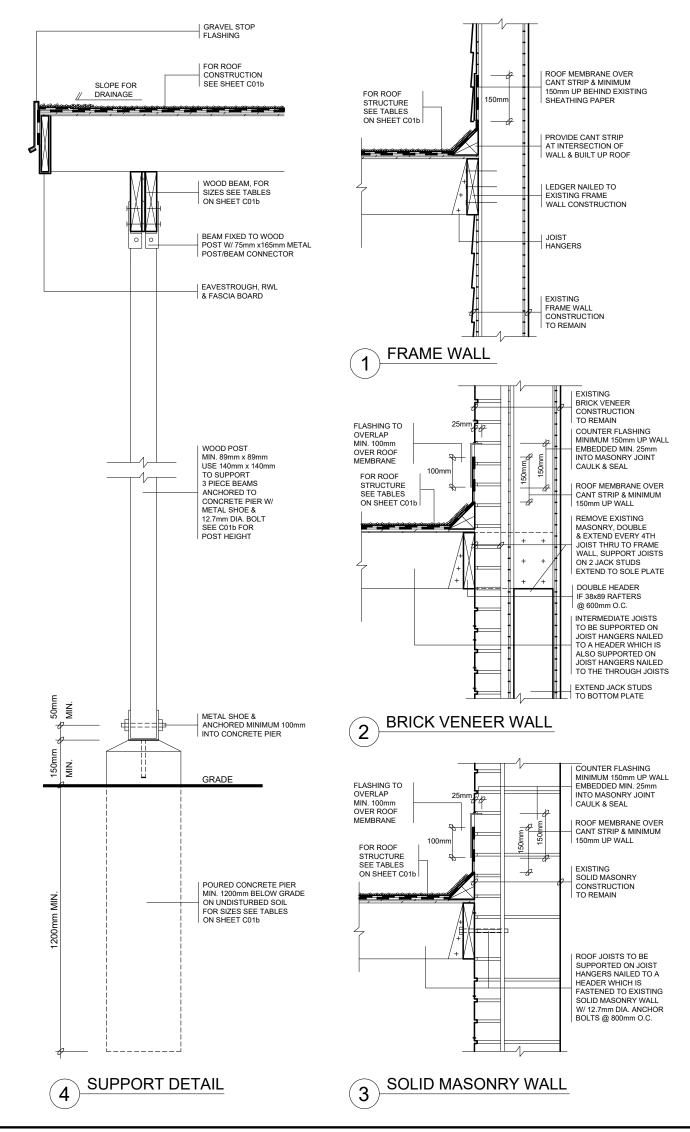
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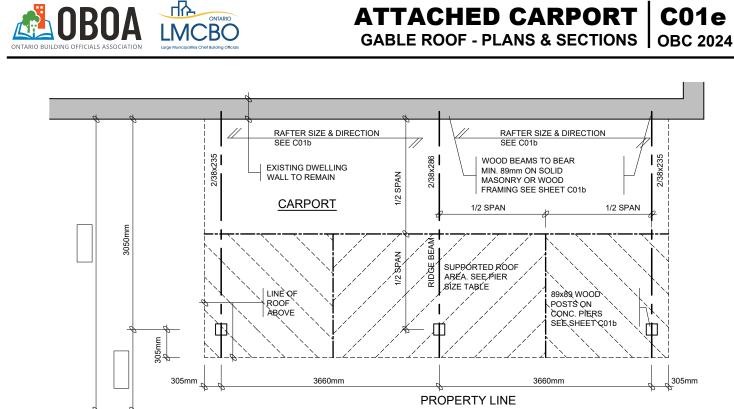
ATTACHED CARPORT | C01d

FLAT ROOF DETAILS OBC 2024

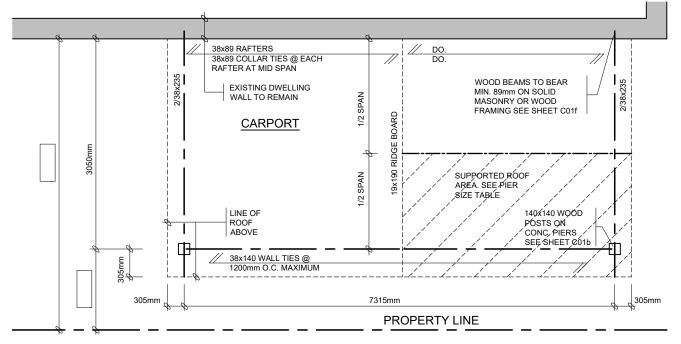


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

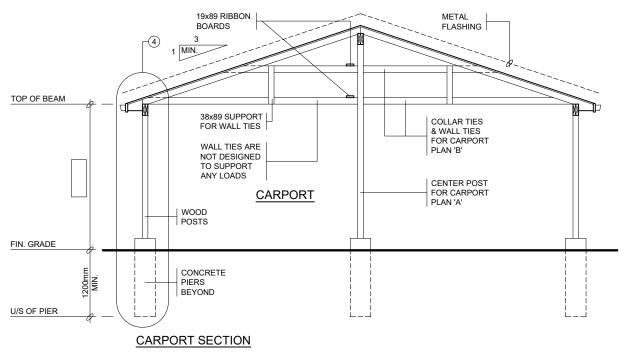
Note: Under the Building Code Act, the local municipality is the authority having jurisdiction for enforcing the act and its regulations. It is the responsibility of the owner/designer to ensure that all designs submitted for a permit are in accordance with the Building Code Act, Building Code and any other Applicable Law.



CARPORT PLAN 'A' POST & BEAM (PROVIDE DIMENSIONS) SEE C01b FOR STRUCTURAL SIZES



CARPORT PLAN 'B' CONVENTIONAL FRAMING (PROVIDE DIMENSIONS) SEE C016 FOR STRUCTURAL SIZES

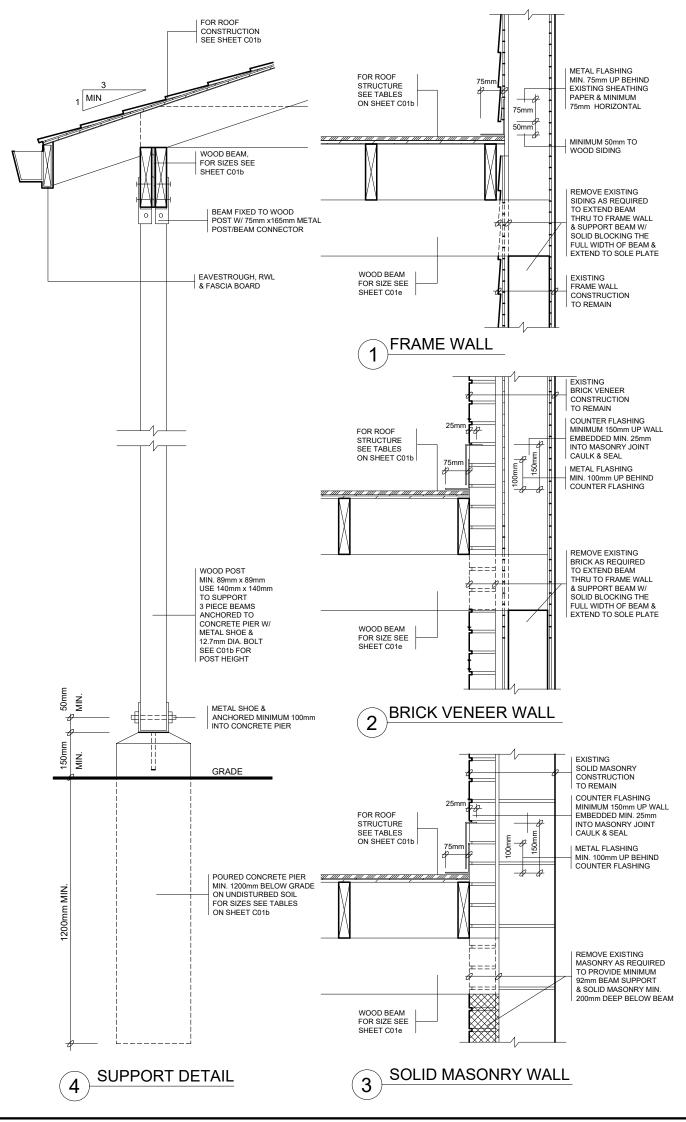


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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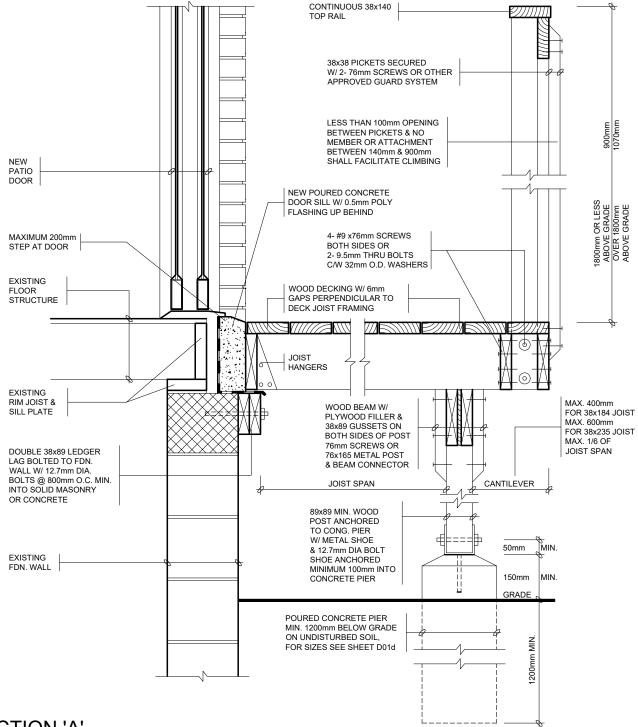
ATTACHED CARPORT **C01f** GABLE ROOF DETAILS OBC 2024



Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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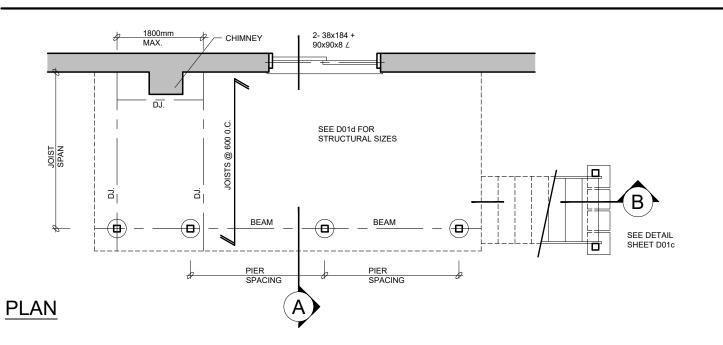




SECTION 'A'

OBOA

ONTARIO

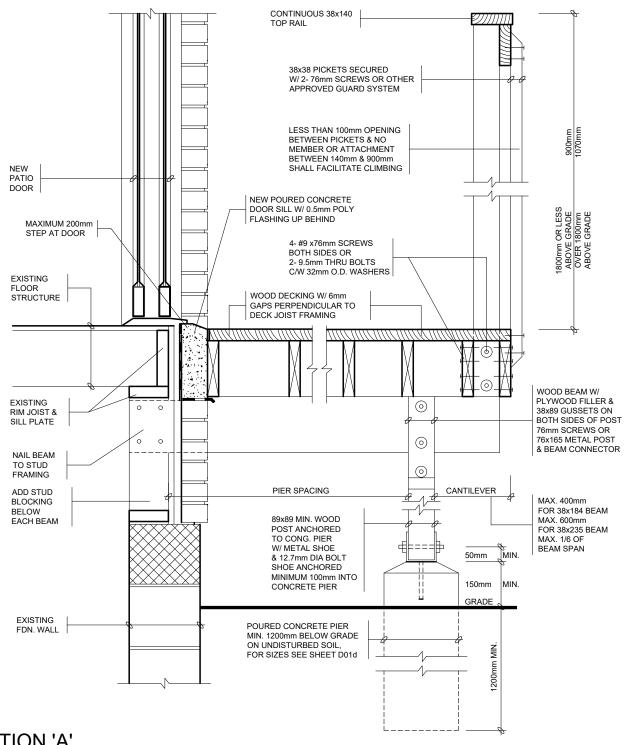


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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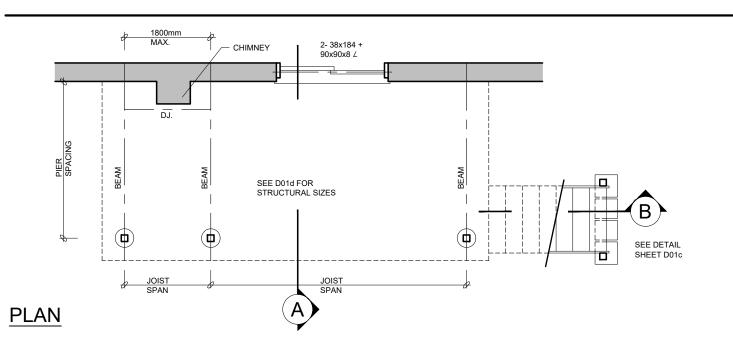




SECTION 'A'

OBOA

ONTARIO

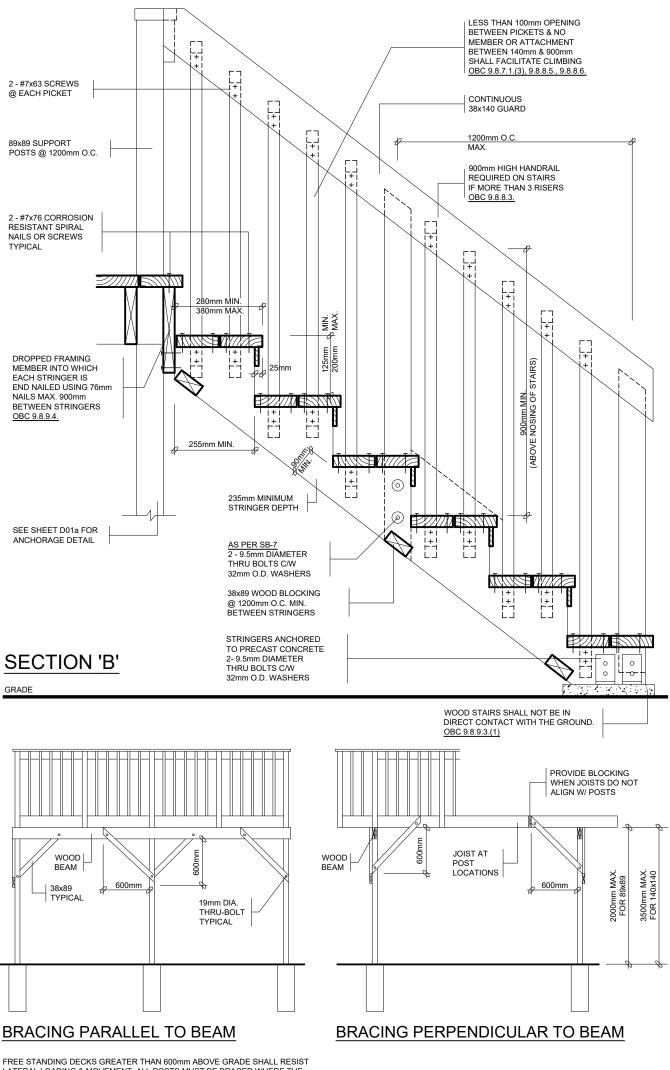


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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WOOD DECKD01cSTAIR SECTION & LATERAL SUPPORTOBC 2024



FREE STANDING DECKS GREATER THAN 600mm ABOVE GRADE SHALL RESIST LATERAL LOADING & MOVEMENT. ALL POSTS MUST BE BRACED WHERE THE SUPPORTED AREA EXCEEDS THOSE LISTED IN THE TABLE ON D01d

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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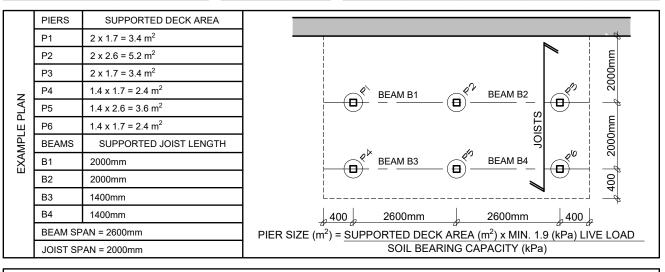


WOOD DECK D01d STRUCTURAL SIZING TABLES OBC 2024

| | BEAM SIZING TABLE | | | | | | | | | |
|-----------------|-------------------|-------------|-----------|-------------------|------------------------|-----------|-------------------|------------------------|-----------|--|
| SUPPORTED | ROOF | SNOW LOAD 1 | .9 kPa | ROOF | ROOF SNOW LOAD 2.5 kPa | | | ROOF SNOW LOAD 3.0 kPa | | |
| JOIST LENGTH | PIER SPACING (mm) | | | PIER SPACING (mm) | | | PIER SPACING (mm) | | | |
| (mm) | 2000 | 3000 | 4000 | 2000 | 3000 | 4000 | 2000 | 3000 | 4000 | |
| 1500 | 2/ 38X140 | 2/ 38X184 | 2/ 38X235 | 2/ 38X140 | 2/ 38X184 | 2/ 38X235 | 2/ 38X140 | 2/ 38X235 | 2/ 38X286 | |
| 2000 | 2/ 38X140 | 2/ 38X184 | 2/ 38X235 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | |
| 2500 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | |
| 3000 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | |
| 3500 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X286 | N/A | |
| 4000 | 2/ 38X184 | 2/ 38X235 | 2/ 38X286 | 2/ 38X184 | 2/ 38X286 | N/A | 2/ 38X184 | 2/ 38X286 | N/A | |

| | JOIST SIZING TABLE | | | | | | | | | | |
|---------------|------------------------|--------|--------|--------------------|------------------------|--------|--------------------|------------------------|--------|--|--|
| JOIST SPAN | ROOF SNOW LOAD 1.9 kPa | | | ROOF | ROOF SNOW LOAD 2.5 kPa | | | ROOF SNOW LOAD 3.0 kPa | | | |
| | JOIST SPACING (mm) | | | JOIST SPACING (mm) | | | JOIST SPACING (mm) | | | | |
| (mm) | 300 | 400 | 600 | 300 | 400 | 600 | 300 | 400 | 600 | | |
| 2000 | 38X140 | 38X140 | 38X140 | 38X140 | 38X140 | 38X140 | 38X140 | 38X140 | 38X140 | | |
| 2500 | 38X140 | 38X140 | 38X184 | 38X140 | 38X140 | 38X184 | 38X140 | 38X184 | 38X184 | | |
| 3000 | 38X140 | 38X184 | 38X184 | 38X184 | 38X184 | 38X235 | 38X184 | 38X184 | 38X235 | | |
| 3500 | 38X184 | 38X184 | 38X235 | 38X184 | 38X235 | 38X235 | 38X235 | 38X235 | 38X235 | | |
| 4000 | 38X235 | 38X235 | 38X286 | 38X235 | 38X235 | 38X286 | 38X235 | 38X235 | 38X286 | | |

| FOOTING SIZES | | PIER SIZES | | | POST SIZING TABLE | | | | | |
|---------------------------------|----------------|------------|----------------|-------|-------------------|-------------------|--|-------|------|--|
| SOIL BEARING CA | PACITIES (kPa) | | | | | | MAX. SUPPORTED DECK AREA (m ²) | | | |
| SOIL | BEARING | DIAMETER | m ² | | POST SIZE | MAXIMUM HEIGHT | | | | |
| TYPE | PRESSURE (kPa) | (MM) | | | (mm) | (m) | 1.9 | 2.5 | 3.0 | |
| SOFT CLAY | 40 | | 200 0.03 | | 1.0 | 10.86 | 8.71 | 7.48 | | |
| LOOSE SAND OR GRAVEL | 50 | 200 | | 89x89 | 1.5 | 5.93 | 4.76 | 4.09 | | |
| FIRM CLAY | 75 | 250 | 0.05 | | | 2.0 | 3.15 | 2.53 | 2.17 | |
| DENSE OR COMPACT SILT | 100 | 300 | 0.08 | | | | | | | |
| STIFF CLAY | 150 | | | | | | | | | |
| DENSE COMPACT SAND OR GRAVEL | 150 | 350 | 0.10 | | | 2.0 | 13.67 | 10.98 | 9.43 | |
| TILL | 200 | 400 | 0.13 | 11 | 140-440 | 2.5 | 9.32 | 7.48 | 6.43 | |
| CLAY SHALE | 300 | 500 | 0.20 | | 140x140 | 3.0 | 6.35 | 5.10 | 4.38 | |
| SOUND ROCK | 500 | 600 | 0.30 | | | 3.5 | 4.41 | 3.54 | 3.04 | |



GENERAL NOTES

1. A MINIMUM LIVE LOAD OF 1.9 kPa SHALL BE APPLIED IN ALL LOCATIONS.

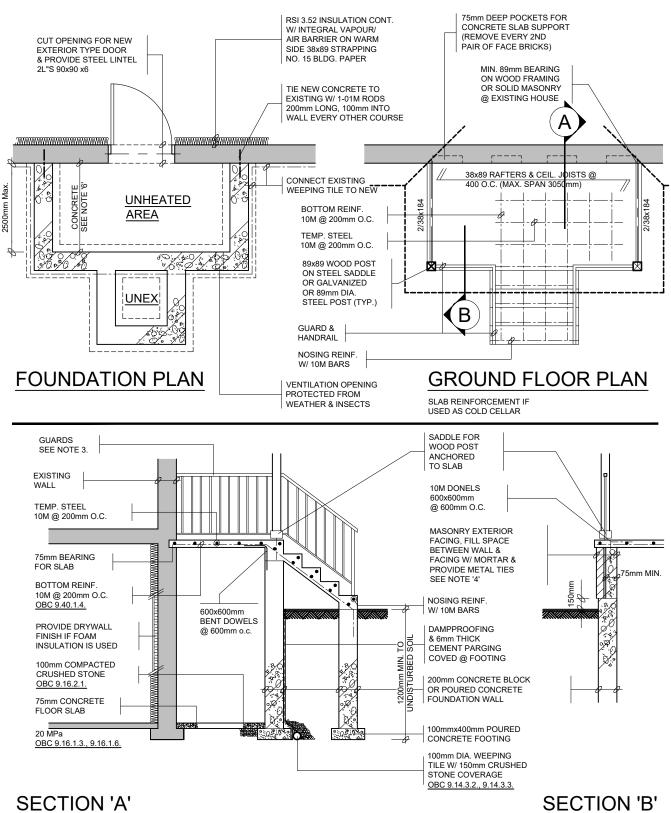
- THE PRESCRIBED SNOW LOAD FOR 225 SELECTED ONTARIO LOCATIONS IS INDICATED IN COLUMN 12 OF TABLE 1.2 IN SUPPLEMENTARY GUIDELINE SB-1 OF THE ONTARIO BUILDING CODE. THE SNOW LOAD SHALL BE APPLIED AS THE MINIMUM LIVE LOAD WHERE IT IS GREATER THAN 1.9 kPa
- A SITE PLAN OR SURVEY IS REQUIRED SHOWING AL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL EXISTING BUILDINGS & DECKS.
 LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 89x89 (SOLID).
- LUMBER NO. 2 SPF OR BETTER WOOD POSTS MIN. 89x89 (SOLID). USE CORROSION RESISTANT SPIRAL NAILS OR SCREWS.
- A DECK IS NOT PERMITTED TO BE SUPPORTED ON BRICK VENEER.
 CANTILEVERED JOISTS AND BEAMS ARE LIMITED TO 1/6 THE MEMBERS LENGTH.
- 7. CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE DETERMINED PRIOR TO CONSTRUCTION.
- 8. MAXIMUM HEIGHT REFERS TO THE HEIGHT OF THE POST FROM THE TOP OF THE PIER TO THE DECK SURFACE.
- 9. BEAMS WITH MORE THAN 2 MEMBERS MUST BE SUPPORTED BY 140x140 POSTS.
- 10. THE ALLOWABLE SOIL BEARING PRESSURE SHALL BE REDUCED BY 50% WHILE THE WATER IS AT OR NEAR THE BOTTOM OF THE FOOTING EXCAVATION.
- 11. CONTACT YOUR LOCAL BUILDING DEPARTMENT FOR FURTHER INFORMATION ABOUT LOCAL SOIL BEARING CAPACITIES.
- 12. JOISTS SPANNING MORE THAN 2100mm ARE TO HAVE BRIDGING AT LEAST EVERY 2100mm O.C.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1



CONCRETE PORCH & COLD CELLAR | D02

PLANS, SECTION & NOTES OBC 2024



GENERAL NOTES

- 1. EXTERIOR STAIRS [OBC 9.8.4.1.] 125mm - 200mm RISE 255mm - 355mm RUN 280mm - 380mm TREAD STEPS ARE TO BE UNIFORM THROUGHOUT FLIGHT
- 2. <u>HANDRAILS [OBC 9.8.7.1.]</u> ARE REQUIRED WHERE STEPS HAVE MORE THAN 3 RISERS. HANDRAIL HEIGHT 865mm - 1070mm
- 3. <u>GUARDS [OBC 9.8.8.]</u> ARE REQUIRED AROUND CONCRETE SLAB IF MORE THAN 600mm ABOVE GRADE & ON BOTH SIDES OF STAIRS MINIMUM 900mm HIGH FOR STAIRS MINIMUM 900mm HIGH FOR PORCHES UP TO 1800mm ABOVE GRADE. MINIMUM 1070mm HIGH FOR GREATER HTS. MAXIMUM 100mm BETWEEN PICKETS AND NO MEMBER DESIGNED TO FACILITATE CLIMBING BETWEEN 140mm & 900mm

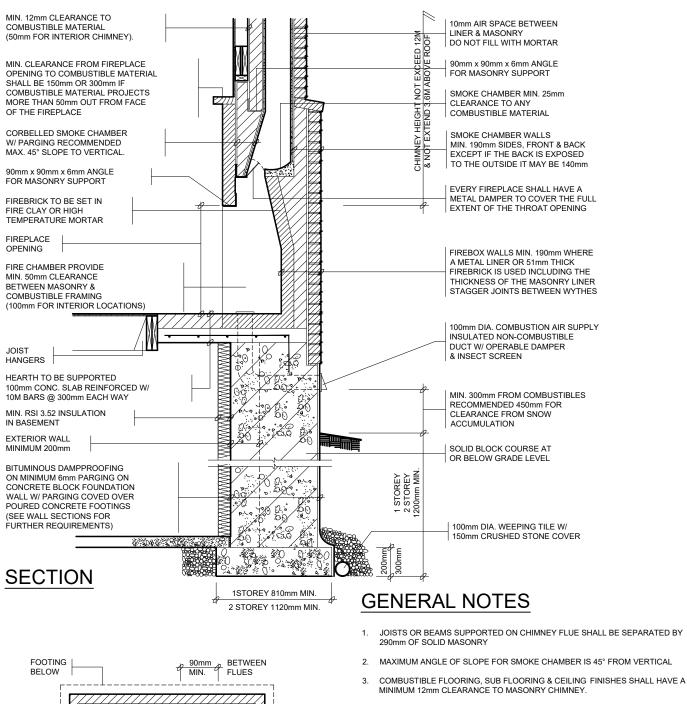
- 4. <u>MASONRY TIES</u> WHEN BRICK FACING IS USED ABOVE
 - GROUND LEVEL, PROVIDE 0.76mm THICK & 22mm WIDE CORROSION RESISTANT METAL TIES @ 600mm HORIZ. & 500mm VERTICAL
- 5. <u>FOUNDATION WALLS</u> (LESS THAN 3M IN HEIGHT) THICKNESS OF UNREINFORCED FOUNDATION WALLS LATERALLY SUPPORTED AT THE TOP ARE DEPENDANT UPON HEIGHT OF FINISH GRADE ABOVE BASEMENT FLOOR

UNIT MASONRY THICKNESS 190mm - MAX. HEIGHT 1200mm UNIT MASONRY THICKNESS 240mm - MAX. HEIGHT 1800mm UNIT MASONRY THICKNESS 290mm - MAX. HEIGHT 2200mm

6. <u>CONCRETE</u> [OBC 9.3.1.6. & 9.40.1.4] MINIMUM CONCRETE STRENGTH SHALL BE 32Mpa W/ 5%-8% AIR ENTRAINMENT CONCRETE SLAB THICKNESS 125mm PROVIDE MIN. 30mm CLEAR CONCRETE COVER TO REINFORCING BARS

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1





- 5. EXCEPT AS REQUIRED IN SENTENCE (2) FIREPLACES SHALL HAVE A NONCOMBUSTIBLE HEARTH EXTENDING NOT LESS THAN 400mm IN FRONT OF THE FIREPLACE OPENING MEASURED FROM THE FACING & NOT LESS THAN 200mm BEYOND EACH SIDE OF THE FIREPLACE OPENING.
- WHERE THE HEARTH IS ELEVATED MORE THAN 150MM ABOVE THE HEARTH EXTENSION. THE WIDTH OF THE HEARTH EXTENSION SHALL BE INCREASED BY: (A) 50mm FOR AN ELEVATION ABOVE 150mm & NOT MORE THAN 300mm & (B) AN ADDITIONAL 25mm FOR EVERY 50mm IN ELEVATION ABOVE 300mm
- 7. INSTALL A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL 2034 ADJACENT TO EACH SLEEPING AREA
- 8. PROVIDE FIRESTOPPING BETWEEN FLOOR, CEILING LEVELS AND CHIMNEY

| | CHIMNEY HEIGHT (M) | | | | | | | | | | |
|-----------------|--------------------|-----------------|---------|-------------|---------|-------------|---------|---------|--|--|--|
| FIREPLACE | 3.0 | 3.0 - 4.5 | | > 4.5 - 5.9 | | > 5.9 - 8.9 | | 12.0 | | | |
| OPENING (M2) | | FLUE SIZES (mm) | | | | | | | | | |
| (1112) | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | | |
| UP TO 0.15 | 200x200 | 200x200 | 100x200 | 100x200 | 100x200 | 100x200 | 100x200 | 100x200 | | | |
| 0.151 - 0.250 | 200x200 | 200x200 | 200x200 | 200x200 | 200x200 | 200x200 | 200x200 | 200x200 | | | |
| 0.251 - 0.350 | 200x300 | 200x300 | 200x200 | 200x300 | 200x200 | 200x200 | 200x200 | 200x200 | | | |
| 0.351 - 0.500 | 300x300 | 300x300 | 200x300 | 200x300 | 200x300 | 200x300 | 200x200 | 200x300 | | | |
| 0.501 - 0.650 | 300x300 | 300x400 | 300x300 | 300x300 | 300x300 | 300x300 | 200x300 | 200x300 | | | |
| 0.651 - 0.800 | 300x400 | 300x400 | 300x300 | 300x400 | 300x300 | 300x300 | 300x300 | 300x300 | | | |
| 0.801 - 1.00 | 400x400 | 400x400 | 300x400 | 300x400 | 300x400 | 300x400 | 300x300 | 300x300 | | | |
| 1.01 - 1.20 | 400x400 | 400x400 | 400x400 | 400x400 | 300x400 | 300x400 | 300x400 | 300x400 | | | |
| 1.21 - 1.40 | | | 400x400 | 400x400 | 400x400 | 400x400 | 300x400 | 300x400 | | | |
| 1.41 - 1.60 | | | | | 400x400 | 400x400 | 400x400 | 400x400 | | | |
| 1.61 - 1.80 | | | | | | | 400x400 | 400x400 | | | |
| 1.81 - 2.00 | | | | | | | 400x400 | 400x400 | | | |
| COLUMN 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | | | |

Ó

,200mp MIN

Þ

150n MIN. 50mm SPACE

MIN

HEARTH

FIREPLACE OPENING

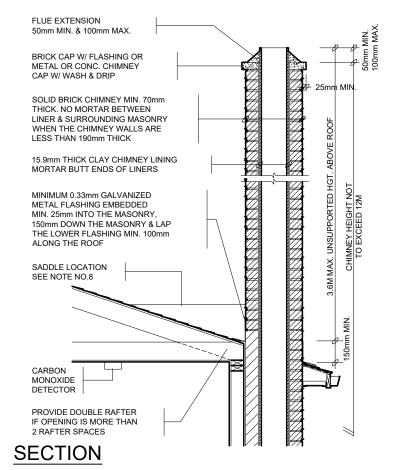
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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50mm

PLAN

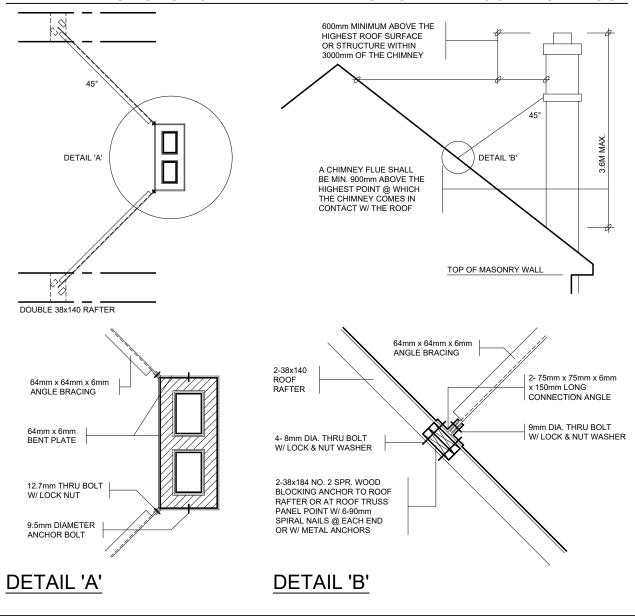




GENERAL NOTES

- 1. ALL STRUCTURAL STEEL SHALL BE 300W GRADE ALL BOLTS SHALL BE A-307 GRADE OR SAE STANDARD GRADE 1 W/ MINIMUM TENSILE STRENGTH OF 414 MPa. ALL EXPOSED STEEL & FASTENERS SHALL BE GALVANIZED OR PAINTED WITH 2 COATS OF ZINK-RICH PAINT.
- 2. ALL TIMBER SHALL BE MIN. SPRUCE NO. 2 GRADE.
- ROOF RAFTERS TO BE 38X140 NO. 2 SPR. @ 400mm O.C W/ A MAXIMUM SPAN OF 3900mm. FOR OTHER ROOF RAFTER CONSTRUCTION, ROOF REINFORCEMENT SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
- 4. FOR HOUSE W/ ROOF TRUSS STRUCTURE, TRUSS DESIGN ENGINEER TO DESIGN FOR A MINIMUM ADDITIONAL
- UNFACTORED CHIMNEY BRACE LOAD OF 4.2KN 5. BASIC HOURLY WIND PRESSURE q= 0.52 kPa. DESIGN ROOF SNOW LOAD = 1.5 kPa.
 - CHIMNEYS W/ MORE THAN DOUBLE FLUE AND/OR EXTENDED MORE THAN 4.40M ABOVE ROOF SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
 - 7. CHIMNEY BRACES EXCEEDING 2500mm IN LENGTH SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
 - SADDLE NOT REQUIRED IF FLASHING USED THAT EXTENDS UP THE CHIMNEY TO HEIGHT EQUAL TO NOT LESS THAN 1/6 THE WIDTH OF THE CHIMNEY BUT NOT LESS THAN 150mm UP THE ROOF SLOPE TO A POINT EQUAL IN HEIGHT TO THE FLASHING ON THE CHIMNEY, BUT NOT LESS THAN 1 1/2 TIMES THE SHINGLE EXPOSURE. PROVIDE COUNTERFLASHING AT THE CHIMNEY.

LATERAL BRACING FOR CHIMNEYS EXTENDING MORE THAN 3.6M ABOVE ROOF



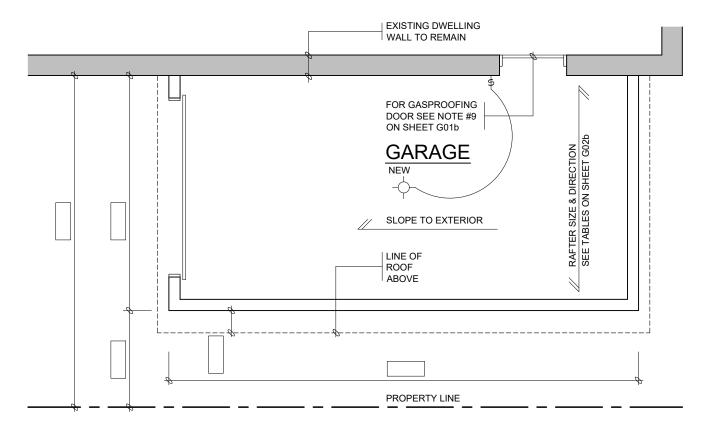
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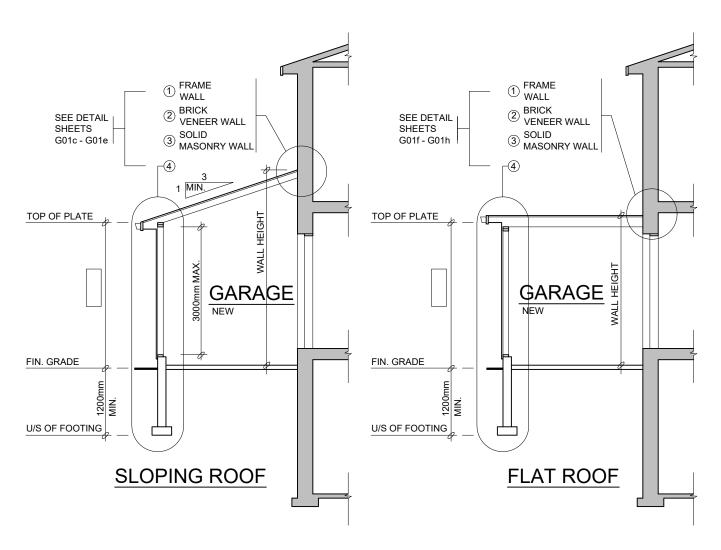


ATTACHED GARAGE G01a

PLANS & SECTIONS OBC 2024



GARAGE PLAN (PROVIDE DIMENSIONS IN BOX)



SECTIONS

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | | | | |
|------------------------|-----------|----------------|------|--------------------------|------|------|--|--|--|--|
| RAFTER | ROOF SNO | W LOAD 1.0 kPa | l | ROOF SNOW LOAD 1.5 kPa | | | | | | |
| SIZE | RAFTER SF | PACING (mm) O. | C. | RAFTER SPACING (mm) O.C. | | | | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | | | | |
| 38x89 | 3.11 | 2.83 | 2.47 | 2.72 | 2.47 | 2.16 | | | | |
| 38x140 | 4.90 | 4.45 | 3.89 | 4.28 | 3.89 | 3.40 | | | | |
| 38x184 | 6.44 | 5.85 | 5.11 | 5.62 | 5.11 | 4.41 | | | | |
| 38x235 | 8.22 | 7.47 | 6.38 | 7.18 | 6.52 | 5.39 | | | | |

ROOF JOISTS (WHERE CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | | | | |
|------------------------|-----------|----------------|------|-------------------------|------|------|--|--|--|--|
| | ROOF SNO | W LOAD 1.0 kPa | l | ROOF SNOW LOAD 1.5 kPa | | | | | | |
| JOIST SIZE | JOIST SPA | CING (mm) O.C. | | JOIST SPACING (mm) O.C. | | | | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | | | | |
| 38x89 | 2.47 | 2.24 | 1.96 | 2.16 | 1.96 | 1.71 | | | | |
| 38x140 | 3.89 | 3.53 | 3.08 | 3.40 | 3.08 | 2.69 | | | | |
| 38x184 | 5.11 | 4.64 | 4.05 | 4.46 | 4.05 | 3.54 | | | | |
| 38x235 | 6.52 | 5.93 | 5.18 | 5.70 | 5.18 | 4.52 | | | | |

LINTELS

(MAXIMUM 1.5 kPa SNOW LOAD)

| DOOR WIDTH | LINTELS FOR WOOD FRAMING | | LINTELS FOR BRICK VENEEF | R 90mm | LINTELS FOR SOLID MASONRY 200mm | | |
|-----------------|-------------------------------|---------------------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------|--|
| | NOT SUPPORTING THE ROOF | SUPPORTING THE ROOF | NOT SUPPORTING THE ROOF | Supporting The Roof | NOT SUPPORTING THE ROOF | SUPPORTING THE ROOF | |
| UP TO 3000mm | 2/ 38x184 | 2/ 38x286 | 2/ 38x184 + ANGLE 125x90x8 | 2/ 38x286 + ANGLE 125x90x8 | 2 ANGLES 150x100x10 | W150x22 + PLATE 200x10 | |
| UP TO 4900mm | 2/ 38x286 | 2/ 38x286 OR 2- 45x300 1.9E LVL | W200x27 + PLATE 200x10 | W200x27 + PLATE 200x10 | MUST BE DESIGNED | MUST BE DESIGNED | |

GENERAL NOTES

- 1. ALL LUMBER TO BE NO. 1 & 2 SPF OR BETTER
- 2. ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- 3. ALL FOOTING SHALL BEAR ON UNDISTURBED SOIL
- IF GARAGE WALL IS LESS THAN 1200mm TO THE PROPERTY LINE PROVIDE 15.9mm TYPE 'X' DRYWALL INTERIOR SHEATHING. NO WINDOWS ARE PERMITTED.
- 5. IF GARAGE WALL IS LESS THAN 1200mm TO THE PROPERTY LINE NON-COMBUSTIBLE CLADDING OR VINYL SIDING W/ GYPSUM SHEATHING IS REQUIRED.
- 6. GARAGE WALLS ADJOINING DWELLING MUST BE COMPLETELY SEALED TO PREVENT ANY INFILTRATION OF GASES INTO THE DWELLING.
- CAULK ALL PENETRATIONS SUCH AS HOSE BIB & JOINTS BETWEEN GYPSUM BD.
 & OTHER SURFACES W/ ACOUSTICAL SEALANT.
- 8. WHERE ATTACHED GARAGE IS ADJACENT TO AN ATTIC SPACE, CARRY GYPSUM BOARD UP TO ROOF SHEATHING & SEAL W/ FLEXIBLE CAULKING.
- DOORS BETWEEN THE GARAGE & DWELLING MUST BE EXTERIOR TYPE, TIGHT FITTING, WEATHERSTRIPPED \$ PROVIDED W/ A SELF CLOSING DEVICE & A DEADBOLT LOCK. DOOR MUST NOT OPEN DIRECTLY INTO A BEDROOM.
- 10. GARAGE SLAB SHALL BE SLOPED TO DRAIN TO THE OUTSIDE. CONCRETE SHALL BE MIN. 32MPa W/ 5% - 8% AIR ENTRAINMENT.
- 11. ALL ROOF SHEATHING TO BE 9.5mm PLYWOOD OR 11mm OSB, FOR ROOF RAFTERS @ 300mm OR 400mm O.C. USE 'H' CLIPS FOR ROOF RAFTERS @ 600mm O.C.
- 12. STEPPED FOOTINGS, IF REQUIRED, SHALL HAVE A MAXIMUM RISE OF 600mm & A MINIMUM RUN OF 600mm.
- 13. PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- 14. STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 73mm DIA. STEEL COLUMN).
- 15. LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

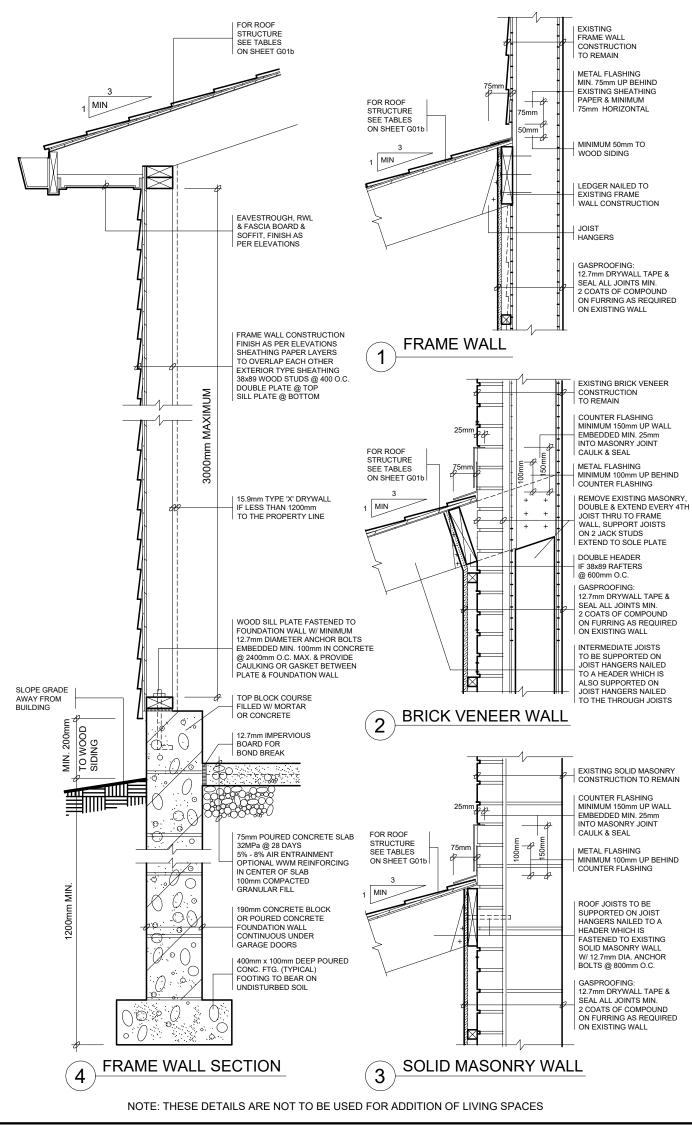
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REVISION 01 - APRIL 2025

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ATTACHED GARAGE | G01c SLOPING ROOF W/ FRAME WALL DETAILS OBC 2024

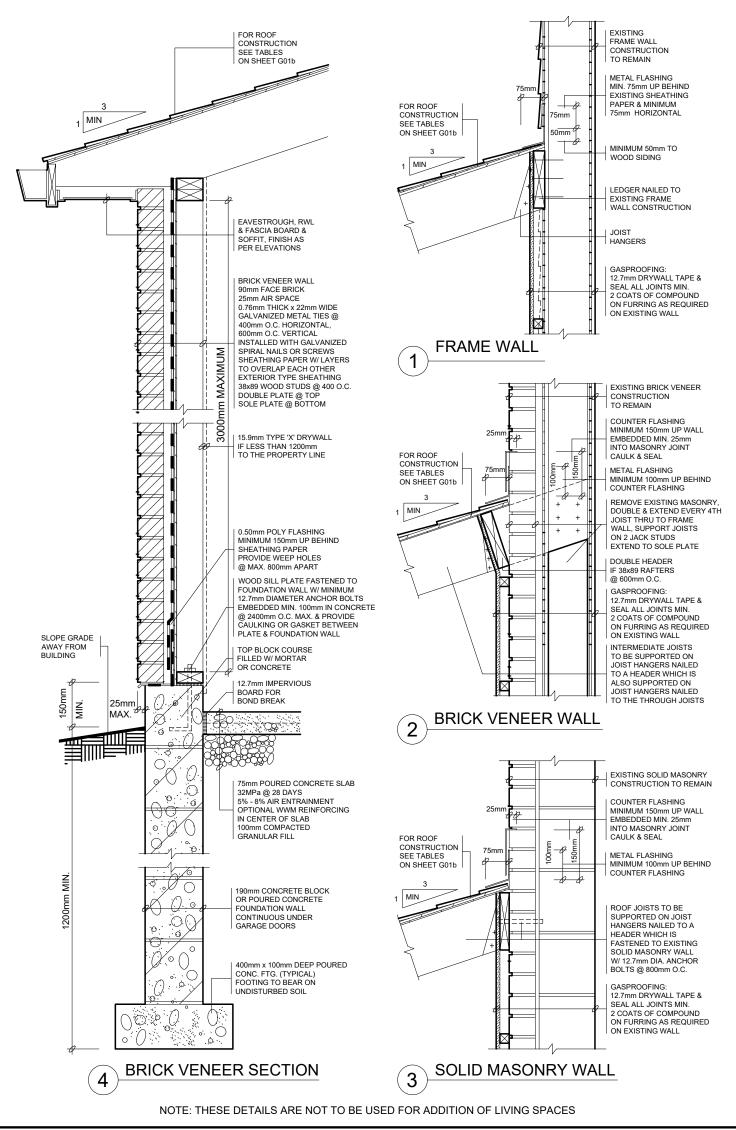


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ATTACHED GARAGE G01d SLOPING ROOF W/ BRICK VENEER DETAILS OBC 2024

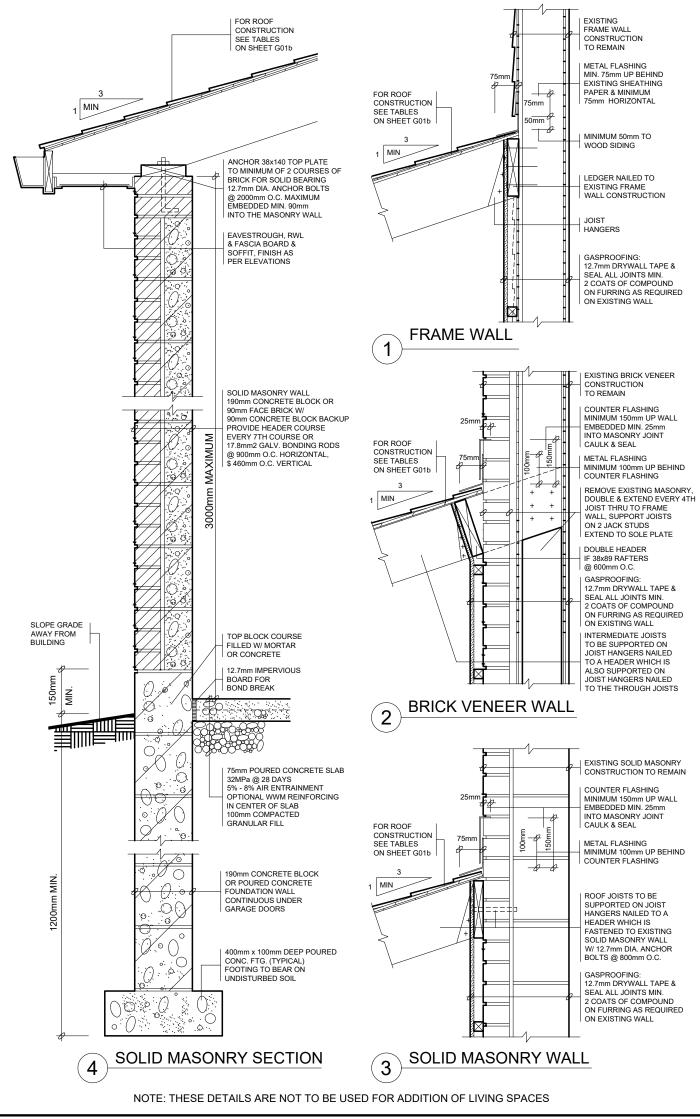


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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SLOPING ROOF W/ SOLID MASONRY DETAILS | OBC 2024

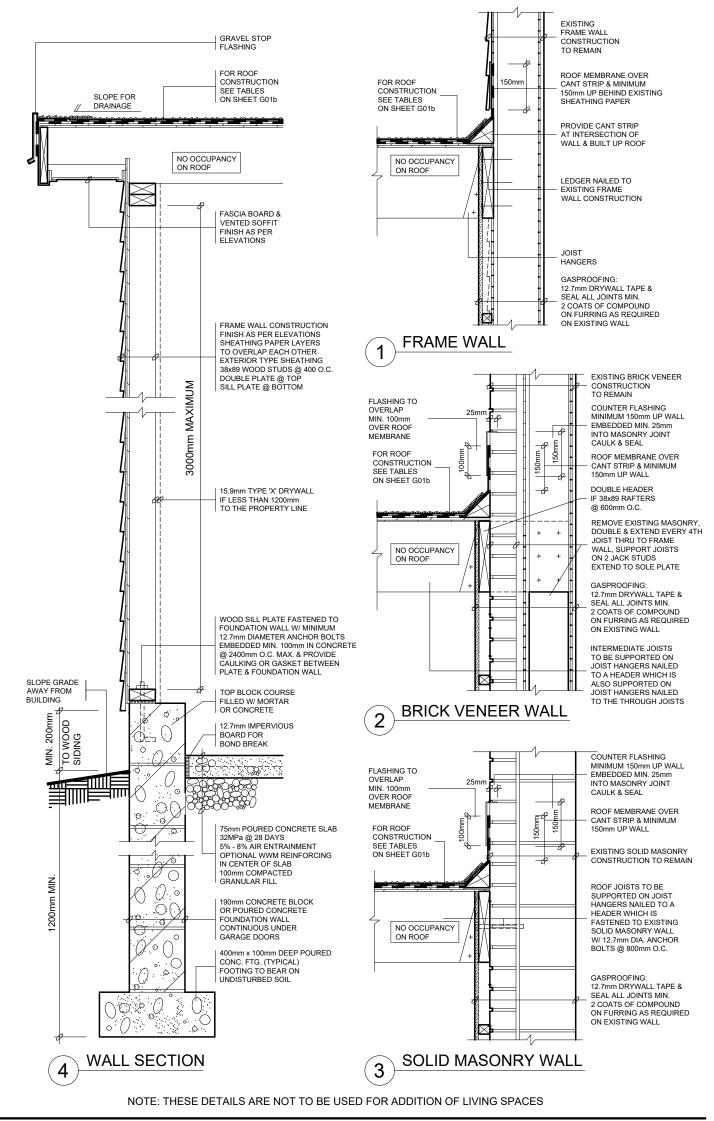


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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ATTACHED GARAGE G01f FLAT ROOF W/ FRAME WALL DETAILS OBC 2024

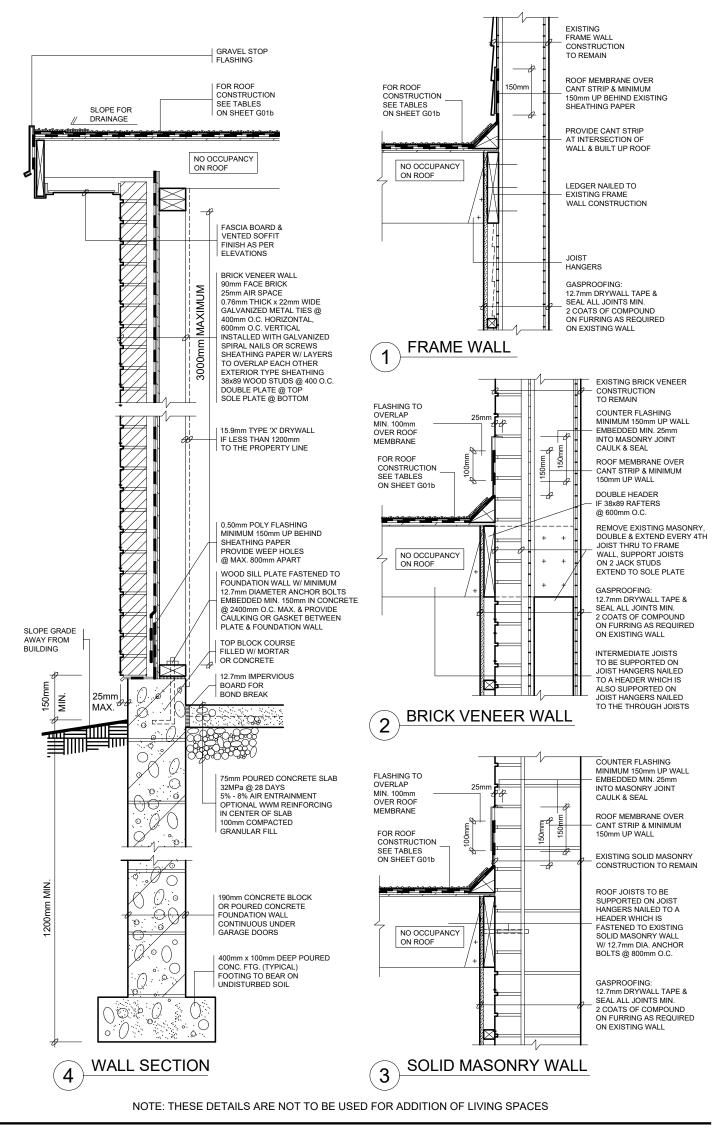


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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ATTACHED GARAGE | G01g FLAT ROOF W/ BRICK VENEER DETAILS 0BC 2024

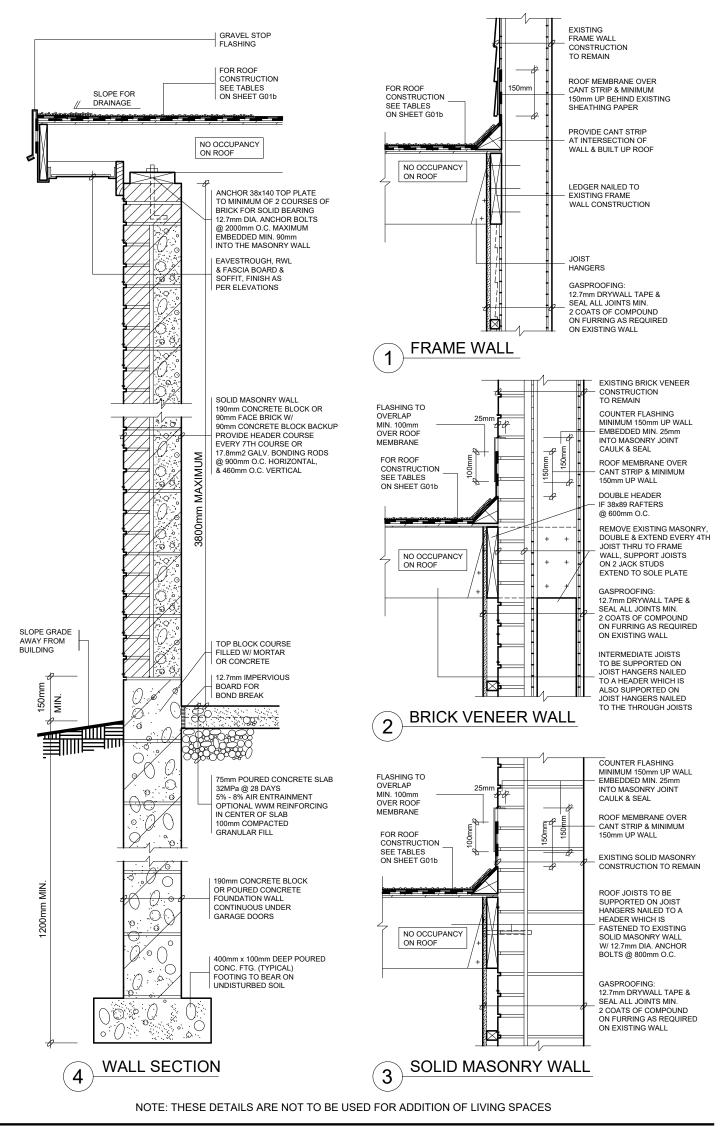


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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FLAT ROOF W/ SOLID MASONRY DETAILS | OBC 2024

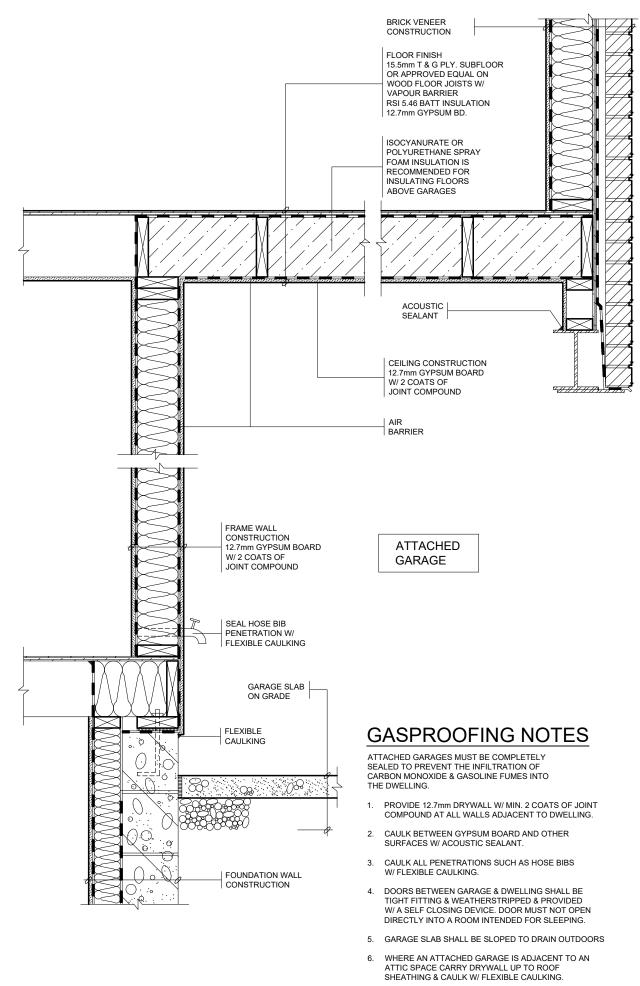


Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

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ATTACHED GARAGE G01i GASPROOFING & INSULATION DETAILS OBC 2024



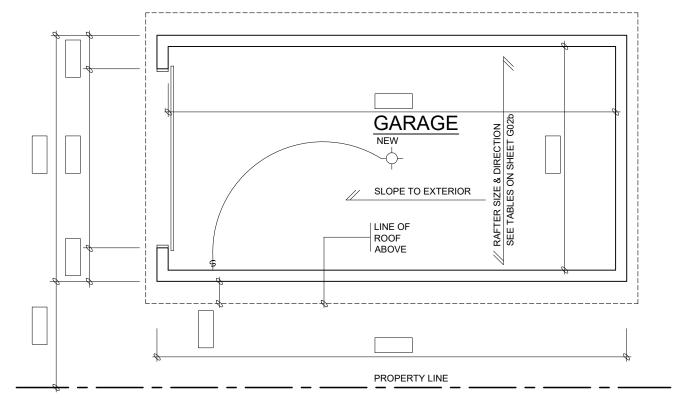
7. UNIT MASONRY WALLS FORMING THE SEPARATION BETWEEN THE DWELLING & ATTACHED GARAGE SHALL BE PROVIDED W/ 2 COATS OF A SEALER OR COVERED W/ PLASTER OR GYPSUM BOARD ON THE GARAGE SIDE.

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

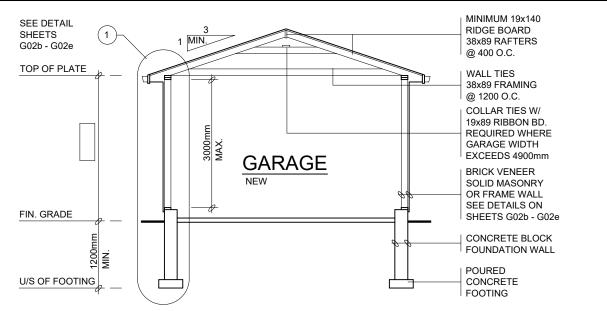
Note: Under the Building Code Act, the local municipality is the authority having jurisdiction for enforcing the act and its regulations. It is the responsibility of the owner/designer to ensure that all designs submitted for a permit are in accordance with the Building Code Act, Building Code and any other Applicable Law.



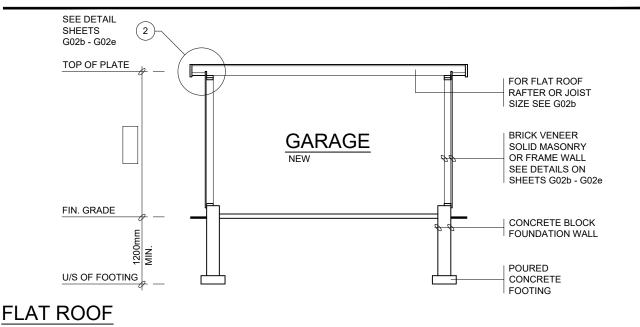
DETACHED GARAGE GO2a SLOPING OR FLAT ROOF PLAN & SECTIONS OBC 2024



GARAGE PLAN (PROVIDE DIMENSIONS IN BOX)







Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | |
|------------------------|-----------|----------------|----------|--------------------------|------|------|--|
| RAFTER | ROOF SNO | W LOAD 1.0 kPa | ROOF SNO | N LOAD 1.5 kPa | a | | |
| SIZE | RAFTER SF | PACING (mm) O. | C. | RAFTER SPACING (mm) O.C. | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | |
| 38x89 | 3.11 | 2.83 | 2.47 | 2.72 | 2.47 | 2.16 | |
| 38x140 | 4.90 | 4.45 | 3.89 | 4.28 | 3.89 | 3.40 | |
| 38x184 | 6.44 | 5.85 | 5.11 | 5.62 | 5.11 | 4.41 | |
| 38x235 | 8.22 | 7.47 | 6.38 | 7.18 | 6.52 | 5.39 | |

ROOF JOISTS (WHERE CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | | |
|------------------------|-----------|----------------|------------------------|-------------------------|------|------|--|
| JOIST | ROOF SNO | W LOAD 1.0 kPa | ROOF SNOW LOAD 1.5 kPa | | | | |
| SIZE | JOIST SPA | CING (mm) O.C. | | JOIST SPACING (mm) O.C. | | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | |
| 38x140 | 3.89 | 3.53 | 3.08 | 3.40 | 3.08 | 2.69 | |
| 38x184 | 5.11 | 4.64 | 4.05 | 4.46 | 4.05 | 3.54 | |
| 38x235 | 6.52 | 5.93 | 5.18 | 5.70 | 5.18 | 4.52 | |
| 38x286 | 7.94 | 7.21 | 6.30 | 6.94 | 6.30 | 5.50 | |

LINTELS

(MAXIMUM 1.5 kPa SNOW LOAD)

| DOOR | | | LINTELS FOR BRICK VENEEF | R 90mm | LINTELS FOR SOLID MASONRY 200mm | | |
|-----------------|-------------------------------|---------------------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------|--|
| WIDTH | NOT SUPPORTING THE ROOF | SUPPORTING THE ROOF | NOT SUPPORTING THE ROOF | SUPPORTING THE ROOF | NOT SUPPORTING THE ROOF | SUPPORTING THE ROOF | |
| UP TO 3000mm | 2/ 38x184 | 2/ 38x286 | 2/ 38x184 + ANGLE 125x90x8 | 2/ 38x286 + ANGLE 125x90x8 | 2 ANGLES 150x100x10 | W150x22 + PLATE 200x10 | |
| UP TO 4900mm | 2/ 38x286 | 2/ 38x286 OR 2- 45x300 1.9E LVL | W200x27 + PLATE 200x10 | W200x27 + PLATE 200x10 | MUST BE DESIGNED | MUST BE DESIGNED | |

GENERAL NOTES

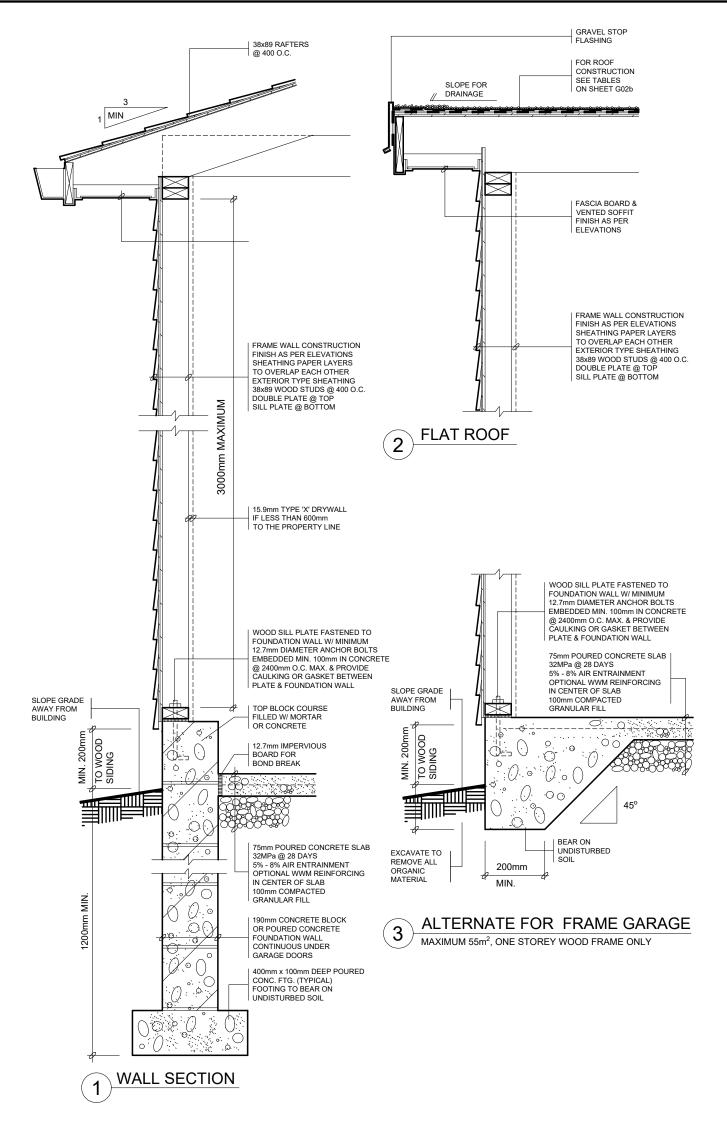
- 1. ALL LUMBER TO BE NO. 1 & 2 SPF OR BETTER
- 2. ALL PLYWOOD SHALL BE STAMPED EXTERIOR GRADE
- 3. ROOF LOAD DESIGN 1.0 kPa OR 1.5 kPa
- 4. ALL FOOTINGS TO BEAR ON UNDISTURBED SOIL.
- IF GARAGE WALL IS LESS THAN 1200mm TO THE PROPERTY LINE PROVIDE 15.9mm TYPE 'X' DRYWALL INTERIOR SHEATHING. NO WINDOWS ARE PERMITTED IN GARAGE WALLS LESS THAN 1200mm FROM PROPERTY LINE.
- 6. FOR ONE STOREY WOOD FRAME DETACHED GARAGES LESS THAN 55m²
- AN ALTERNATE FOOTING MAY BE USED, SEE DETAIL SHEET G02c.
- GARAGE SLAB SHALL BE 32MPa CONCRETE W/ 5% 8% AIR ENTRAINMENT SLOPED TO DRAIN TO THE OUTSIDE.
- ROOF SHEATHING SHALL BE MIN. 9.5mm PLYWOOD PROVIDE 'H' CLIPS IF RAFTERS OR JOISTS ARE SPACED GRATER THAN 400mm O.C.
- 9. PROVIDE A LIGHT FIXTURE IN THE GARAGE.
- 10. STEEL BEAMS TO BE SUPPORTED BY SOLID MASONRY (190mm BEARING ON MASONRY OR 73mm DIA. STEEL COLUMN).
- 11. LINTELS AND BEAMS TO BE DESIGNED BY A QUALIFIED PERSON FOR SPANS GREATER THAN 4900mm.

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



DETACHED GARAGE G02c

FRAME WALL DETAILS | OBC 2024

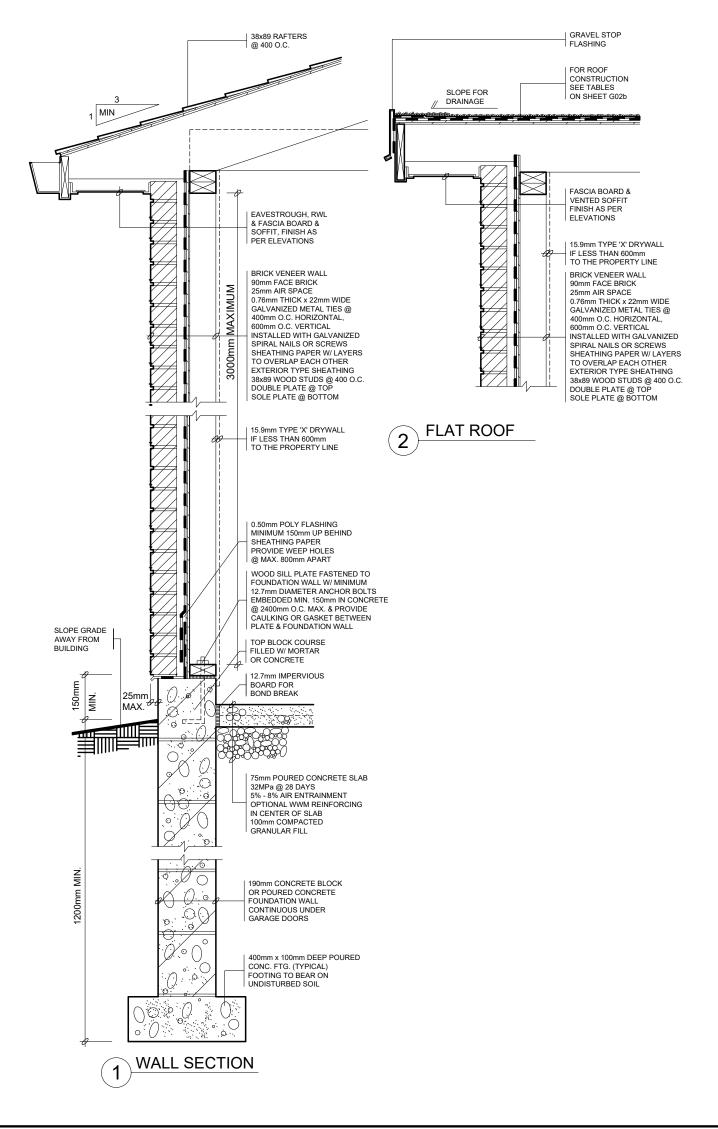


Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



DETACHED GARAGE G02d

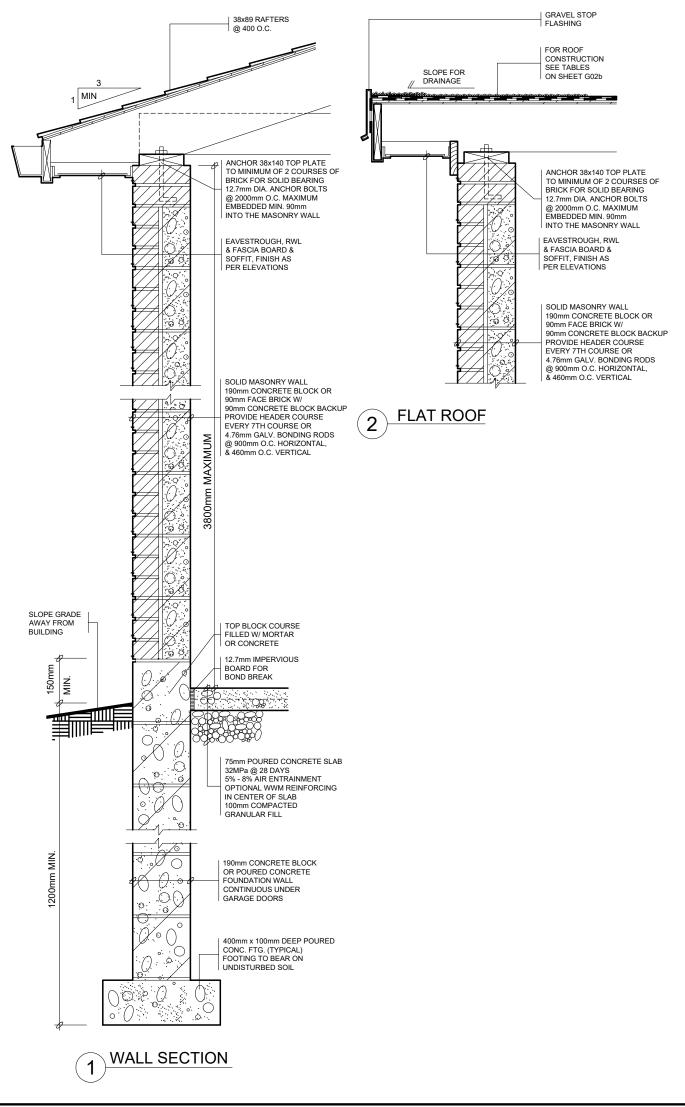
BRICK VENEER DETAILS OBC 2024



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

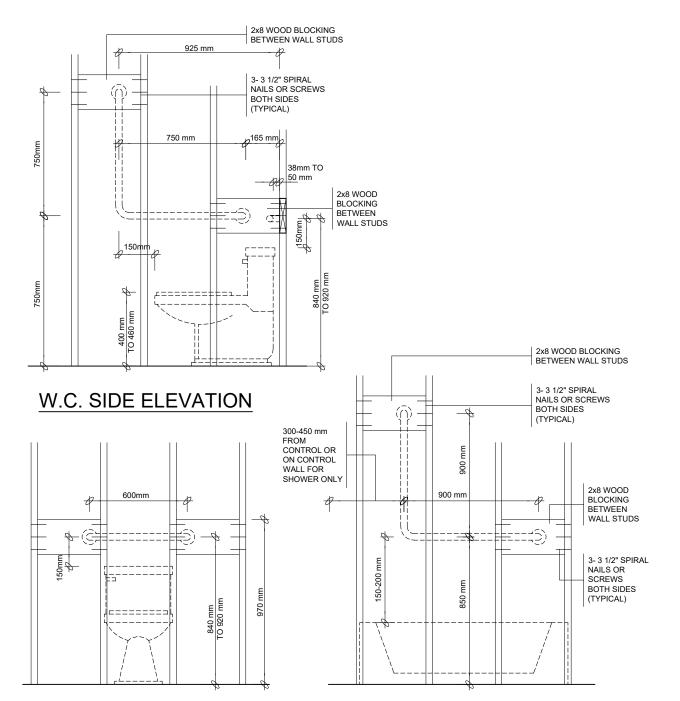


DETACHED GARAGE **G02e** SOLID MASONRY DETAILS | OBC 2024



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2





W.C. FRONT ELEVATION SHOWER/TUB WALL SIDE ELEVATION

GRAB BAR REINFORCEMENT

REINFORCEMENT SHALL BE INSTALLED TO PERMIT THE FUTURE INSTALLATION OF A GRAB BAR IN THE MAIN BATHROOM OF A DWELLING UNIT. IF GRAB BAR IS NOT INSTALLED AT TIME OF CONSTRUCTION, BLOCKING FOR BOTH CONFIGURATIONS AT SIDE OF WATER CLOSET IS REQUIRED.

GRAB BAR INSTALLATION SPECIFICATION

BESIDE WATER CLOSET 1.

OPTION 1

L-SHAPED GRAB BAR WITH 760mm LONG HORIZ. AND VERT. COMPONENTS MOUNTED W/ HORIZ. COMPONENT 750mm TO 900mm A.F.F. AND THE VERTICAL COMPONENT 150mm IN FRONT OF TOILET BOWL. **OPTION 2** MIN. 760mm LONG GRAB BAR MOUNTED AT A 30° TO 50° ANGLE SLOPING UPWARDS AWAY FROM WATER CLOSET W/ LOWER END OF BAR MOUNTED 750mm TO 900mm A.F.F. AND 50mm IN FRONT OF TOILET BOWL.

BEHIND WATER CLOSET 2.

MIN. 600mm LONG GRAB BAR MOUNTED HORIZONTALLY ON WALL 840mm TO 920mm ABOVE THE FLOOR AND 150mm ABOVE THE WATER TANK IF APPLICABLE.

BEHIND BATHTUB OR SHOWER 3.

L-SHAPED GRAB BAR MIN. 900mm LONG VERTICAL & HORIZONTALLY. HORIZONTAL COMPONENT WITHIN 100mm FROM EDGE OF SHOWER SEAT. HORIZONTAL COMPONENT 850mm ABOVE FINISH FLOOR & 150-200mm ABOVE TUB RIM.

4. GRAB BAR ATTACHMENT

GRAB BAR MUST BE ATTACHED WITH SCREWS WHICH PENETRATE AT LEAST 32mm INTO THE SOLID BLOCKING.

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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RESERVED

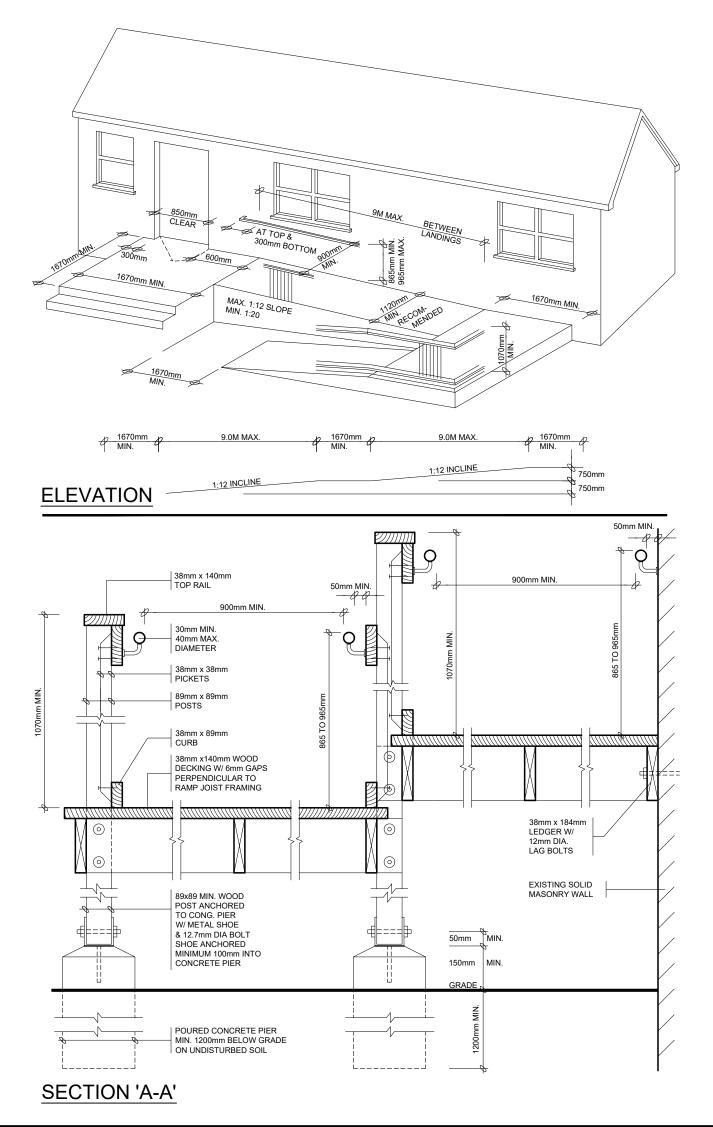
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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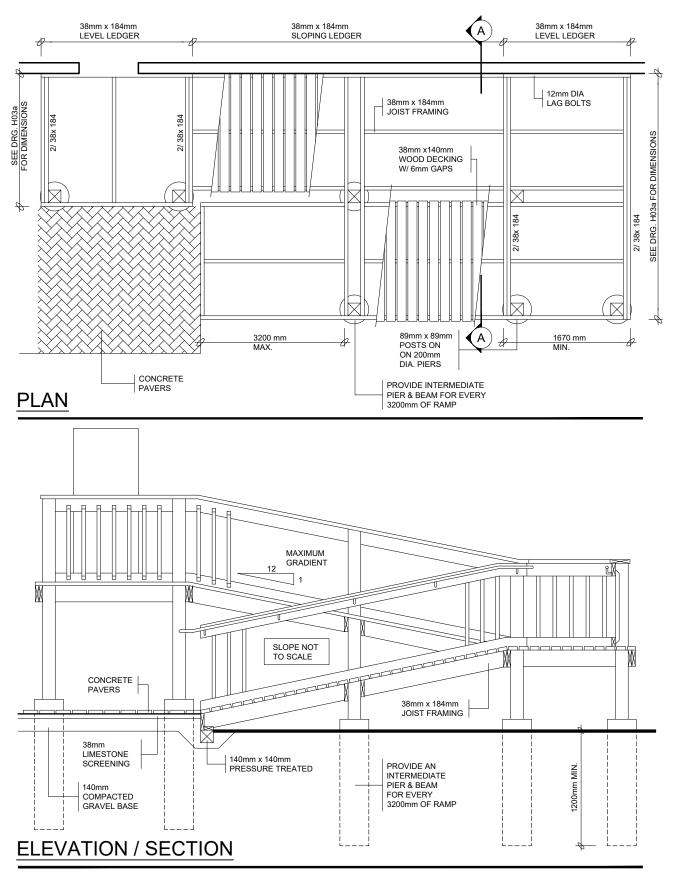
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BARRIER-FREE DESIGN | H03b

RAMP CONSTRUCTION DETAILS | OBC 2024



GENERAL NOTES

- A SITE PLAN OR SURVEY IS REQUIRED SHOWING ALL LOT LINES & DIMENSIONS, SIZE & LOCATION OF ALL BUILDINGS, LOCATION & SIZE OF RAMP & LANDING.
- 2. LUMBER NO. 2 SPF OR BETTER, WOOD POSTS MIN. 89x89 (SOLID). USE CORROSION RESISTANT SPIRAL NAILS OR SCREWS.
- 3. CONCRETE PIERS SHALL BEAR ON UNDISTURBED SOIL. THE BEARING CAPACITY OF THE SOIL SHALL BE A MINIMUM 75kPa.
- HANDRAILS, ON BOTH SIDES, W/ 30-40mm CIRCULAR CROSS SECTION OR 100-155mm NON-CIRCULAR PERIMETER W/ MAX. 57mm CROSS SECTIONAL DIMENSION.
- HANDRAILS MUST BE TERMINATED IN A MANNER THAT WILL NOT OBSTRUCT PEDESTRIAN TRAVEL OR CREATE A HAZARD.
- PROVIDE A MIN. 40mm CLEARANCE BETWEEN THE HANDRAIL AND THE MOUNTING SURFACE.
- HANDRAILS/GUARDS SHALL BE DESIGNED AND CONSTRUCTED SUCH THAT THEY WILL WITHSTAND 0.9kN POINT LOADS AND 0.7kN/m UNIFORM LOADS FROM ANY DIRECTION.

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RESIDENTIAL PLUMBING P01 SCHEMATIC PLANS | OBC 2024

SHOWER LAVATORY LAVATORIES WATER CLOSET WATER CLOSET BATHTUB WITH SHOWER KITCHEN SINK CLOTHES WASHER DISHWASHER - LAVATORY HOSE LAUNDRY SINK £ WATER BIB CLOSET CURB VALVE SET IN GRAVEL (METER IN HOUSE) ANTI SCALDING MIXING VALVE GRADE ├ HWT DRAIN VALVE (OPTIONAL) LOCATION OF WATERTIGHT SLEEVE WATER METER BACKFLOW PREVENTER CORPORATION COCK (IF REQ'D.) IF REQ'D. PUBLIC WATER MAIN BUILDING SHUTOFF - HOT WATER ---- COLD WATER WATER SUPPLY PIPING HORIZONTAL VENT GANG VENTS WHERE PRACTICAL LINES SHALL EXTEND VENT ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST FIXTURE THRU ROOF GUTTER & DOWNSPOUT TO GRADE SHOWER LAVATORY LAVATORIES WATER WATER CLOSET CLOSET BATHTUB WITH CLOTHES WASHER SHOWER KITCHEN SINK LAVATORY LAUNDRY WATER CLOSET DISHWASHER SINK WASTE STANDPIPE DISPOSAL SPLASH BLOCK CLOTHES WASHER OVERFLOW PAN CLEANOUT (OPTIONAL) DRAIN TO EXTERIOR VALVE ٢ H GRADE ⊢ SLOPE ALL HORIZONTAL SOIL, WASTE & VENT PIPING CLEANOUT TYPICAL CHECK VALVE CLEANOUT UNION TO DRAIN PUBLIC SANITARY SEWER SEWAGE PUMP OR SEWAGE EJECTOR IF REQUIRED FLOOR DRAIN SEWAGE PUMP OR SEWAGE EJECTOR IS USED WHEN SEWER ALTERNATIVE LOCATION OF SANITARY SEWER

IS ABOVE LOWEST

SANITARY FIXTURE

DRAINAGE PIPING

----- VENT PIPING

DRAINAGE & VENTING

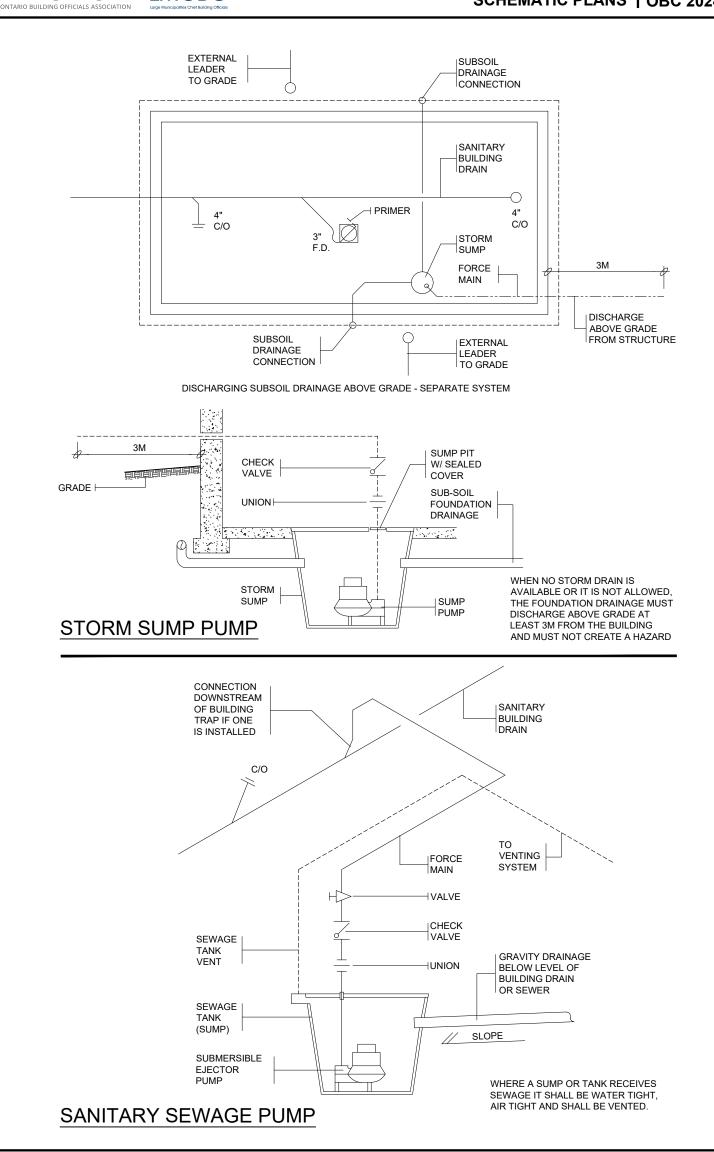
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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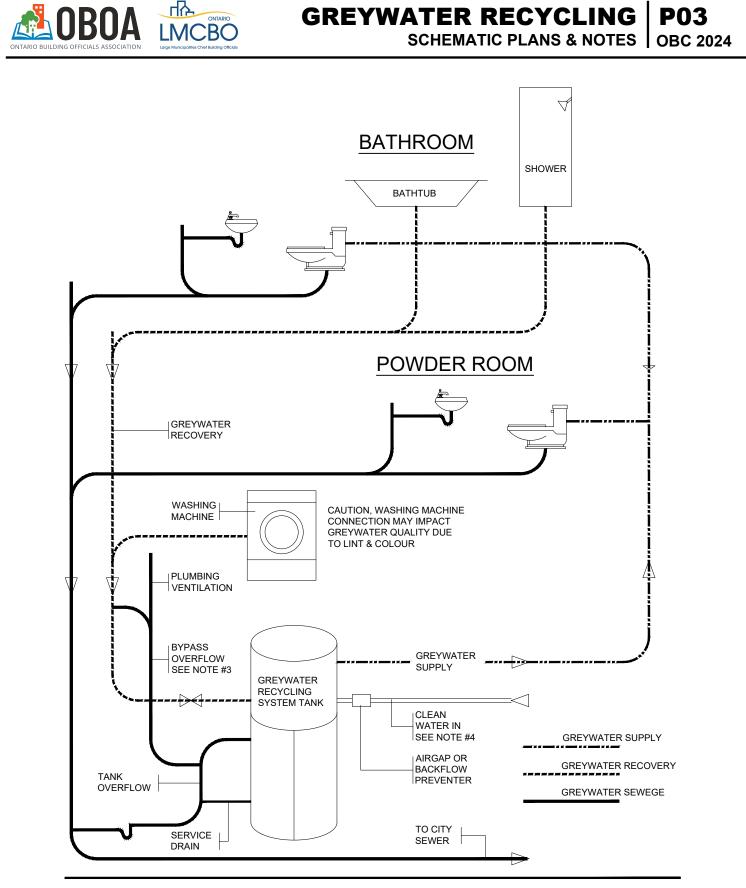
SCHEMATIC PLANS | OBC 2024

P02



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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NOTES:

- 1. The building code permits toilets, urinals and trap seals to be supplied by recycling greywater rather than by the potable water supply system. Greywater is the discharge from fixtures other than toilets, urinals, bidets or other sanitary units. [7.1.2.3.(2)]
- 2. The greywater system must be completely separated from the sanitary drainage system using independent greywater supply and drainage piping, as shown on the schematic diagram. All connected fixtures must be connected and vented according to the building code.
- 3. An overflow pipe connected to a sanitary drain must be installed from the greywater supply tank which incorporates an air gap or check valve to prevent contamination in the event of a sanitary sewage backup. [7.4.2.2.(1)]
- 4. Backup potable water supply to the greywater supply tank is requires to maintain supply in the event connected fixture demand exceeds the tank supply capacity. The potable water supply pipe must be protected with an air gap or testable reduced pressure principle backflow preventor. [7.4.6.4.]
- 5. A non-potable water system shall not be connected to a potable water system. [7.6.2.1.]
- 6. Non-potable water supply piping shall be identified by markings that are permanent, distinct and easily recognized. [7.7.1.2.]
- 7. An outlet from a non-potable water system shall not be located where it can discharge into a sink or lavatory, a fixture into which an outlet from a potable water system is discharged or a fixture that is used for a purpose related to the preparation, handling or dispensing of food, drink or products that are intended for human consumption. [7.7.1.3.]

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



1. PLUMBING MATERIALS & EQUIPMENTS:

- A 'T' fitting shall not be used in a drainage system except to connect a vent pipe. [7.2.4.1.]
- A cross fitting shall not be used in a drainage system. [7.2.4.1.]
- No double Y, double TY, double T or double waste fitting shall be installed in a nominally horizontal soil or waste pipe. [7.2.4.4.]

2. DRAINAGE SYSTEM:

- Every sanitary drainage system and storm drainage system shall be • provided with cleanouts that will permit cleaning of the entire system. [7.4.7.1.(1)]
- A cleanout fitting shall be provided on the upstream side and directly over every running trap, horizontal soil or waste pipe. [7.4.7.1.(2)]
- Where there is a change of direction greater than 45 degrees in a sanitary building drain or sanitary building sewer, a cleanout shall be installed at each change in direction. [7.4.7.1.(9)]
- Every sanitary building drain or storm building drain shall be provided with a cleanout fitting that is located as close as practical to the place where the drain leaves the building. [7.4.7.1.(6)]
- Every soil or waste stack shall be provided with a cleanout fitting at the bottom of the stack. [7.4.7.1.(7)]
- A cleanout shall be installed on a fixture drain serving a kitchen sink. [7.4.7.1.(10)]
- When gravity drainage to a sanitary drainage system is possible, a floor drain shall be installed in a basement, forming part of a dwelling unit. [7.4.3.1.(1)]
- Sanitary units, bathtubs and shower baths shall not be installed adjacent to wall and floor surfaces that are pervious to water. [7.4.3.1.(1)]
- Every fixture shall be protected by a separate trap. [7.4.5.1.] •
- Provision shall be made for maintaining the trap seal of a floor drain by the use of a trap seal primer. [7.4.5.5.]
- Every drainage pipe that is NPS 3 or less shall have a downward slope in the direction of flow of at least 1 in 50. [7.4.8.1.(1)]
- Where it is not possible to comply with 1 in 50 slope, a lesser slope may be used if it will provide a gravity flow of not less than 0.60m per second. [7.4.8.1.(3)]
- Every sanitary building drain and every sanitary building sewer shall be not less than NPS 4. [7.4.9.4.(1)]
- Every storm building drain and every storm building sewer shall be not less than NPS 4. [7.4.9.4.(2)]
- Indirect connections or any trap that may overflow shall not be located in a crawl space or any other unfrequented area. [7.4.3.2.(1)]
- There shall be no unused open ends in a drainage system and dead ends shall be so graded that water will not collect in them. [7.4.6.1.(3)]
- Only piping that is too low to drain into a building sewer by gravity shall be drained to a sump or receiving tank. [7.4.6.3.(1)]
- Where the sump or tank receives sanitary sewage, it shall be water and air-tight and shall be vented. [7.4.6.3.(2)]
- The discharge pipe from every pumped sanitary sewage pump shall be equipped with a union, a check valve and a shut-off valve installed in that sequence in the direction of discharge. [7.4.6.3.(9)]
- A subsoil drainage pipe that drains into a sanitary drainage system that is subject to surcharge shall be connected in such a manner that sewage cannot back up into the subsoil drainage pipe. [7.4.6.4.(5)]
- The developed length of every fixture outlet pipe shall not exceed 1200mm. [7.4.8.2.(1)]
- Where clothes washers do not drain to a laundry tray, the trap inlet shall be not less than NPS 2 and be fitted with a vertical standpipe that is not less than 600mm long measured from the trap weir and terminates above the flood level rim of the clothes washer. [7.4.9.3.(3)]

3. VENTING SYSTEM:

- Every trap shall be vented. [7.5.1.1.]
- Every sanitary building drain shall terminate at its upstream end in a stack of at least NPS 3 in size. [7.5.1.1.]
- A stack shall be a soil stack if one is available and may be a vent stack or waste stack that provides at least NPS 3 stack vent and that goes to open air above the roof, either directly or through a header. [7.5.7.2.(3)]
- Every sump or tank that receives sanitary sewage shall be provided with a vent pipe that is connected to the top of the sump or tank. [7.5.5.1.]
- The minimum nominal pipe size of the vent pipe for a sewage sump or neutralizing or dilution tank shall be one NPS smaller than the NPS of the largest branch or fixture drain draining to the sump. [7.5.7.7.(1)]
- Air admittance valves shall only be used in buildings undergoing renovation and installations where connection to a vent may not be practical. [7.5.9.2.(1)]
- Installed air admittance valves shall be accessible and located in a space that allows air to enter the valve. [7.5.9.3.(4)]

4. POTABLE WATER:

- Every pressure vessel that is part of a plumbing system or connected to a plumbing system shall be equipped with a pressure relief valve designed to open when the water pressure in the tank reaches the rated working pressure of the tank, and so located that the pressure in the tank shall not exceed 1100 kPa or one-half the maximum test pressure sustained by the tank, whichever is the lesser. [7.6.1.7.(1)]
- Every fixture supplied with separate hot and cold water controls shall have the hot water control on the left and the cold on the right. [7.6.1.1.(1)]
- A building control valve shall be provided on every water service pipe at the location where the water service pipe enters the building. [7.6.1.3.(1)]
- Every water closet shall be provided with a shut-off valve on its water supply pipe. [7.6.1.3.(4)]
- Every water pipe that supplies a hot water tank, pressure vessel, plumbing appliance or water using device shall be provided with a shut off valve located close to the tank, pressure vessel, plumbing appliance or water using device. [7.6.1.3b.]
- Every pipe that passes through an exterior wall to supply water to the exterior of the building shall be provided with a frost-proof hydrant with a separate shut-off valve or a stop-and-waste cock located inside the building and close to the wall. [7.6.1.4.(1)]
- Where a hose bib is installed outside a building, inside a garage or where there is an identifiable risk of contamination, the potable water system shall be protected against backflow by a backflow preventer. [7.6.2.7.]
- No water system between the point of connection with the water service pipe or the water meter and the first branch that supplies a water heater shall be less than NPS 3/4. [7.6.3.4.(4)]
- Every water service pipe shall not be less than NPS 3/4. [7.6.3.4.(1)]
- A check valve shall be installed at the building end of the water service pipe where the pipe is made of plastic that is suitable for cold water use only. [7.6.1.5.(1)]
- Protection against thermal expansion shall be required when a check valve, a backflow preventer or a pressure reducing valve is required. [7.6.1.11.(1)]

5. HOT WATER TEMPERATURE CONTROL:

Shower valves shall be pressure balanced or thermostatic mixing valves. a pressure balanced or thermostatic mixing valve shall not be required for showers where the hot water supply for showers, are controlled by a master thermostatic mixing valve. Pressure balanced or thermostatic mixing valves shall be designed such that the outlet temperature does not exceed

49 °c (120 °f). [7.2.10.7b]

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



1. EXCAVATION & BACKFILL:

- Excavation shall be undertaken in such a manner so as to prevent damage to existing structures, adjacent property, and utilities. [9.12.1.4.(1)]
- The topsoil and vegetable matter in unexcavated areas under a building shall be removed. [9.12.1.1.(1)]
- If termites are known to exist, all stumps, roots, and wood debris shall be removed to a minimum depth of 300mm in excavated areas under a building, and the clearance between untreated structural wood elements and the ground shall be no less than 450mm. [9.12.1.1.(2)]
- The bottom of excavations for foundations shall be free of all organic material. [9.12.1.1.(3)]
- Excavations shall be kept free of standing water. [9.12.1.2.]
- The bottom of excavations shall be kept from freezing throughout the entire construction period. [9.12.1.3.]
- Material shall not be placed nor shall equipment be operated or placed in or adjacent to an excavation in a manner that may endanger the integrity of the excavation or its supports. [9.12.1.4.(2)]
- Backfill within 600mm of the foundation walls shall be free of deleterious debris and boulders over 250mm in diameter. [9.12.3.3.(1)]

2. DAMPPROOFING & DRAINAGE:

- In normal soil conditions, the exterior surfaces of foundation walls enclosing basements and crawl spaces shall be dampproofed. Where hydrostatic pressure occurs, a waterproofing system is required. [9.13.1.1.]
- Masonry foundation walls shall be parged with 6mm of mortar coved over the footing prior to dampproofing. [9.13.2.3.]
- 100mm dia. foundation drains shall be laid on level, undisturbed ground adjacent to the footings at or below the top of the basement slab or crawl space floor and shall be covered with 150mm of crushed stone.
 Foundation drains shall drain to a storm sewer, drainage ditch, dry well, or sump.
- [9.14.3.2., 9.14.3.3., 9.14.5.1.]
- Window wells shall be drained to the footing level or to a ditch or sump pump. [9.14.6.3.]
- Downspouts not directly connected to a storm sewer shall have extensions to carry water away from the building, and provisions shall be made to prevent soil erosion. [9.26.18.2.]
- Concrete slabs in attached garages shall be sloped to drain to the exterior. [9.35.2.2.]
- The building site shall be graded so that surface, sump, and roof drainage will not accumulate at or near the building and will not adversely affect adjacent properties. [9.14.6.1.]

3. SOIL GAS CONTROL:

- Dwelling units and buildings containing residential occupancies shall be provided with the rough-in for a radon extraction system, unless the space between the air barrier system and the ground is designed to be accessible for the future installation of a subfloor depressurization system. [9.13.4.2.]
- Rough-in for subfloor depressurization shall consist of a gas-permeable layer, an inlet and an outlet in the conditioned space, or clean granular material and a pipe not less than 100mm installed through the floor. [9.13.4.3.]

4. FOOTINGS:

- Minimum 15 MPa poured concrete. [9.15.2.2.]
- Minimum 1200mm below finished grade. [9.12.2.2.]
- Footings shall be founded on natural undisturbed soil, rock, or compacted granular fill with a minimum bearing capacity of 75 kPa and 100 kPa for ICF. [9.15.3.2., 9.15.1.1.]

5. FOOTING SIZES:

| Floors Supported | Supporting Ext. Wall | Supporting Int. Wall | Column Area |
|---------------------|-------------------------|-------------------------|--------------------|
| 1 | 250mm | 200mm | 0.40m ² |
| 2 | 350mm | 350mm | 0.75m ² |
| 3 | 450mm | 500mm | 1.00m ² |

- Increase exterior footing width by 65mm for each storey of brick veneer supported, by 130mm for each storey of masonry and by 150mm for ICF.
- Increase interior footing width by 100mm for each storey of masonry above footing, and by 100mm for each storey of masonry above footing, and by 100mm for each 2700mm of wall height above 5500mm.
- The projection of an unreinforced footing beyond the wall supported shall not be greater than its thickness.
- Column area based on max. 3000mm spacing.

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6. STEP FOOTINGS:

• Step footings must have a maximum of 600mm vertical rise and a minimum of 600mm horizontal run. [9.15.3.9.]

7. FOUNDATION WALLS:

- To be poured concrete, unit masonry, ICF, or preserved wood (see drawings for type and thickness). [9.15.1.1.]
- Dampproofing shall consist of one of the following: a vapour-resistant coating, a cold-fluid-applied or hot-rubberized bituminous dampproofing membrane, a liquid-applied or spray-applied asphalt-based emulsion dampproofing, or a Type iii hot-applied asphalt. [9.4.4.2.]
- A drainage layer is required on the outside of a foundation wall where the interior insulation extends more than 900mm below exterior grade. A drainage layer shall consist of: minimum 19mm mineral fiber insulation with a minimum density of 57 kg/m³, minimum 100mm of free-draining granular material, or an approved system that provides equivalent performance. [9.14.2.1.]
- Foundation wall to extend a minimum of 150mm above finished ground level. [9.15.4.6.]

8. CONCRETE FLOOR SLABS:

- Garage, carport, and exterior slabs and steps shall be 32 MPa concrete with 5 8% air entrainment. [9.3.1.6.]
- Basement slab: 25 MPa concrete, minimum 75mm thick, placed on a minimum 100mm of coarse, clean granular material. [9.16.4.3., 9.16.2.1.]
- All fill other than coarse clean material placed beneath concrete slabs shall be compacted to provide uniform support. [9.16.2.2.(3)]

9. MASONRY WALLS:

- Where constructed of 90mm brick, wall shall be bonded with a header course every 600mm o/c vertically and horizontally and 900mm o/c for block or tile. [9.20.9.3.]
- Provide 50mm solid masonry or concrete-filled top course or continuous 38x89 wood plate under roof and floor framing members. [9.20.8.1.]
- Provide 190mm solid masonry under beams and columns. [9.20.8.4.]
 Masonry wall to be tied to each tier of joists with 40mm x 4.76mm
- Masonry wall to be tied to each tier of joists with 40mm x 4.76mm corrosion-resistant steel straps, keyed a minimum of 100mm into masonry. when joists are parallel to the wall, ties are to extend across at least 3 joists @ 2000mm o.c. [9.20.11.]
- Inside of wall to be parged and covered with no. 15 breather-type asphalt paper. [9.20.13.9.]
- For reduced foundation walls to allow a brick facing while maintaining lateral support, tie minimum 90mm brick to minimum 90mm backup block with corrosion resistant ties at least 17.8mm² in cross sectional area spaced 400mm vertically and 900mmhorizontally, with joints completely filled with mortar. [9.20.9.4.]
- Masonry over openings shall be supported on corrosion resistant or prime painted steel lintels with a minimum of 150mm end bearing. [9.20.5.2.]

10. MASONRY VENEER:

- Minimum 70mm thick if joints are not raked and 90mm thick if joints are raked [9.20.6.4.]
- Minimum 25mm air space to sheathing [9.20.6.4.]
- Provide weep holes @ 800mm o.c. at the bottom of the cavity and over doors and windows [9.20.13.8.]
- Direct drainage through weep holes with 0.5mm poly flashing extending a minimum of 150mm up behind the sheathing paper [9.20.13.6.]
- Veneer ties: minimum 0.76mm thick x 22mm wide corrosion-resistant straps spaced @ 500mm vertically and 600mm horizontally [9.20.9.5.]
- Fasten ties with corrosion-resistant 3.18mm diameter screws or spiral nails which penetrate at least 30mm into studs [9.20.9.5.]



11. WOOD FRAME CONSTRUCTION:

- All lumber shall be spruce-pine-fir no. 1 & 2, and shall be identified by a grade stamp.
- Maximum moisture content: 19% at the time of installation. [9.3.2.5.]
- Wood framing members supported on concrete in direct contact with soil shall be separated from the concrete with 0.05mm polyethylene or Type 'S' roll roofing. [9.17.4.3.]

12. WALLS:

- Exterior walls shall consist of: cladding, air barrier system lapped 100mm at joints, 25mm rigid insulation RSI 0.88ci, lumber, plywood, OSB, or gypsum sheathing, 38x140 studs @ 400mm o.c., RSI 3.34 insulation, 38x140 bottom plate, 38x140 double top plate [9.20.6.4.]
- Interior loadbearing walls shall consist of: 38x89 studs @ 400mm o.c., 38x89 bottom plate and double 38x89 top plate, 38x89 mid-girts if not sheathed, 12.7mm gypsum board sheathing [9.20.6.4.]

13. FLOORS:

- Refer to drawing S01d for floor joist size and spacing requirements [9.23.9.1.]
- Joists to have a minimum of 38mm of end bearing [9.23.9.1.]
- Joists shall bear on a sill plate fixed to the foundation with 12.7mm anchor bolts @ 2400mm o.c. [9.23.6.1.(2)]
- Header joists between 1200mm and 3200mm in length shall be doubled. Header joists exceeding 3200mm shall be sized by calculations [9.23.9.5.]
- Trimmer joists shall be doubled when the supported header is between 800mm and 2000mm. trimmer joists shall be sized by calculations when the supported header exceeds 2000mm [9.23.9.6.]
- 38x38 cross-bridging required not more than 2100mm from each support and from other rows of bridging [9.23.9.4.]
- Joists shall be supported on joist hangers at all flush beams, trimmers, and headers [9.23.9.2.]
- Non-loadbearing partitions shall be supported on a joist or on blocking between joists [9.23.9.8.]
- Refer to drawing S01d for subflooring requirements [9.23.9.1.]

14. ROOF & CEILINGS:

- Refer to drawing S01d for rafter, roof joist, and ceiling joist size and spacing requirements [9.23.14.6.]
- Hip and valley rafters shall be not less than 50 mm greater in depth than the common rafters and not less than 38 mm thick, actual dimension [9.23.14.6.]
- 38x89 collar ties @ rafter spacing with 19x89 continuous brace at mid-span if the collar tie exceeds 2400mm in length [9.23.14.7.]
- Refer to drawing S01d for roof sheathing requirements [9.23.14.6.]

15. NOTCHING & DRILLING OF TRUSSES, JOISTS,

RAFTERS:

- Holes in floor, roof, and ceiling members must not exceed 1/4 the actual depth of the member and must be at least 50mm from the edges [9.23.5.1.]
- Notches in floor, roof, and ceiling members must be located on the top of the member within 1/2 the actual depth from the edge of bearing and must not exceed 1/3 the joist depth [9.23.5.2.]
- Wall studs may be notched or drilled provided that no less than 2/3 the depth of the stud remains, if load bearing, and 40mm if non-loadbearing [9.23.5.3.]
- Roof truss members shall not be notched, drilled, or weakened unless accommodated in the design [9.23.5.5.]

16. ROOFING:

- Fasteners for roofing shall be corrosion-resistant [9.26.2.3.]
- Roofing nails shall penetrate through or at least 12mm into roof sheathing
 [9.26.2.3.]
- Every asphalt shingle shall be fastened with at least 4 nails for a 1000mm wide shingle (or 6 11mm staples) [9.26.7.4.]
- Eave protection shall extend 900mm up the roof slope from the edge and at least 300mm from the inside face of the exterior wall and shall consist of: Type M or Type S Roll Roofing laid with a minimum 100mm head and end laps cemented together, or glass fiber or polyester fiber coated base sheets, or self-sealing composite membranes consisting of modified bituminous-coated material, or no.15 saturated felt lapped and cemented [9.26.5.1., 9.26.5.2.]
- Eave protection is not required for unheated buildings, for roofs exceeding a slope of 1 in 1.5, or where a low slope asphalt shingle application is provided [9.26.5.1.(2)]
- Open valleys shall be flashed with 2 layers of roofing or 1 layer of sheet metal minimum 600mm wide [9.26.4.3.(5)]
- Flashing shall be provided at the intersection of shingle roofs with exterior walls and chimneys [9.26.4.1.]
- Sheet metal flashing shall consist of not less than 1.73mm sheet lead, 0.33mm galvanized steel, 0.33mm copper, 0.35mm zinc, or, 0.48mm aluminum [9.26.4.2.]

17. COLUMNS, BEAMS & LINTELS:

- Steel beams and columns shall be shop primed 350W steel [9.15.5.2.]
- Minimum 89mm end bearing for wood and steel beams, with 190mm solid masonry beneath the beam [9.15.5.2.]
- Steel columns to have minimum outside diameter of 73mm and minimum wall thickness of 4.76mm [9.17.3.1.]
- Wood columns for carports and garages shall be minimum 89mm x 89mm; In all other cases either 140mm x 140mm or 184mm round, unless calculations based on actual loads show lesser sizes are adequate. All columns shall be not less than the width of the supported member [9.35.4.2., 9.17.4.1.]
- Masonry columns shall be a minimum of 290mm x 290mm or 240mm x 380mm [9.17.5.2.(1)]
- Provide solid blocking the full width of the supported member under all concentrated loads [9.17.5.2.(1)]

18. INSULATION & WEATHERPROOFING:

- Ceiling with attic: RSI 10.56
- Roof without attic: RSI 5.46
- Exposed floor: RSI 5.46
- Exterior walls: RSI 3.34 + 0.88 ci
- Basement walls: RSI 2.11 + 1.76 ci (RSI 3.52)
- Slab on grade: RSI 1.76 [SB-12 Package A2]
- Insulation shall be protected with gypsum board or an equivalent interior finish, except for unfinished basements where 0.15mm poly is sufficient for fibreglass type insulations. [9.25.2.3.]
- Ducts passing through unheated space shall be made airtight with tape or sealant. [9.25.3.3.]
- Caulking shall be provided for all exterior doors and windows between the frame and the exterior cladding. [9.20.13.11.]
- Weatherstripping shall be provided on all doors and access hatches to the exterior, except doors from a garage to the exterior. [9.25.3.3.]
- Exterior walls, ceilings and floors shall be constructed so as to provide a continuous barrier to the passage of water vapour from the interior and to the leakage of air from the exterior. [9.25.3.1.]
- Insulation shall be installed over the full height of foundation walls enclosing a basement or heated crawl space. [9.25.2.3.(4)]



19. NATURAL VENTILATION:

- Every roof space above an insulated ceiling shall be ventilated with unobstructed openings equal to not less than 1/300 of the insulated ceiling area. [9.19.1.2.(1)]
- Insulated roof spaces not incorporating an attic shall be ventilated with unobstructed openings equal to not less than 1/150 of the insulated ceiling area. [9.19.1.2.(2)]
- Roof vents shall be uniformly distributed with a minimum of 25% at the top and 25% at the bottom of the space and designed to prevent the entry of rain, snow, or insects. [9.19.1.2.(3)]
- Unheated crawl spaces shall be provided with no less than 0.1m² of ventilation for each 50m². [9.18.3.1.]
- Minimum natural ventilation areas, where mechanical ventilation is not provided, are: bathrooms 0.09m², other rooms 0.28m², unfinished basement 0.2% of floor area. [Table 9.32.2.2.]

20. DOORS & WINDOWS:

- Every floor level containing a bedroom and not served by an exterior door shall contain at least one window having an unobstructed open area of 0.35m² and no dimension less than 380mm, which is openable from the inside without tools. Maximum sill height 1000mm for finished floors above grade. [9.9.10.1.]
- Exterior house doors and windows within 2000mm of grade must resist forced entry and be fitted with a deadbolt lock. [9.7.5.3.]
- The principal entry doors shall have either a door viewer, transparent glazing, or a sidelight. [9.7.2.1]

21. EXTERIOR WALLS:

- No windows or other unprotected openings are permitted in exterior walls less than 1200mm from property lines [9.10.14.4.]
- 15.9mm type 'X' fire rated drywall shall be installed on the inside face of attached garage exterior walls and gable ends of roofs which are less than 1200mm and not less than 600mm from property lines [9.10.14.4.]
- Non-combustible cladding shall be installed on all exterior walls less than 600mm from property lines [9.10.14.4.]

22. CERAMIC TILE:

• When ceramic tile is applied to a mortar bed with adhesive, the bed shall be a minimum of 12.5mm thick and reinforced with galvanized diamond mesh lath, applied over polyethylene on subflooring on joists at no more than 400mm o.c. with at least 2 rows cross bridging [9.23.15.5.(3)]

23. ACCESS TO ATTICS & CRAWL SPACES:

- Access hatch minimum 545mm x 588mm to be provided to every roof space which is 10m² or more in area and more than 600mm in height [9.19.2.1.]
- Access hatch minimum 500mm x 700mm to be provided to every crawl space serving a house. Other than in a house, access hatch must be the minimum of 550mm by 900mm [9.18.2.1.]

24. GARAGE GASPROOFING:

- Walls and ceilings of attached garages shall be constructed and sealed so as to provide an effective barrier to exhaust fumes [9.10.9.18.(4)]
- All plumbing and other penetrations through the walls and ceiling shall be caulked [9.10.9.18.(5)]
- Doors between the dwelling and attached garage may not open into a bedroom and shall be weatherstripped and have a self-closer [9.10.13.15.]

25. ALARMS & DETECTORS:

- At least one smoke alarm shall be installed on each floor, in each bedroom and in the basement level 900mm or more above an adjacent level [9.10.19.1.]
- Smoke alarms shall be interconnected wirelessly or by hard-wiring and installed on or near the ceiling and provided with a battery backup [9.10.19.5.]
- All smoke alarms to have a visual signaling component conforming to NFPA 72. visual device to be interconnected to smoke alarm [9.10.19.1.(2)]
- Carbon monoxide alarms shall be installed in each residential suite with fuel-burning or forced-air fuel burning appliance, or an attached garage [9.32.3.9a.]
- Carbon monoxide alarms shall be installed in each sleeping room, adjacent to each sleeping room, and on each storey without a sleeping room [9.32.3.9a.]

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26. STAIRS:

- Stair dimensions:
- Maximum rise: 200mm,
- Minimum run: 255mm,
- Minimum tread: 280mm,
- Minimum headroom: 1950mm,
- Clear headroom under beams and ducting in secondary suite: 1850mm, minimum width: 860mm [9.8.4.1., 9.8.2.2.]
- Curved stairs shall have a minimum run of 150mm at any point and a minimum average run of 300mm [9.8.4.3.]
- Winders which converge to a point in stairs must turn through an angle of no more than 90° with no less than 30° or more than 45° per tread. Sets of winders must be separated by 1200mm along the run of the stair [9.8.4.6.]
- A landing is required at the top of any stair leading to the principal entrance to a dwelling and other exterior entrances with more than 3 risers [9.8.6.2.]
- Exterior concrete stairs with more than 2 risers require foundations [9.8.9.2.]

27. HANDRAIL & GUARDS:

- A handrail is required for interior stairs containing more than 2 risers and exterior stairs containing more than 3 risers. [9.8.7.1.(3)]
- Guards are required around every accessible surface more than 600mm above an adjacent level and where the adjacent surface has a slope more than 1:2 [9.8.8.1.(1)]
- Interior and exterior guards minimum of 900mm high. [9.8.8.3.]
- Exterior guards must be 1070mm high where the height above the adjacent surface exceeds 1800mm [9.8.8.3]
- Guards must have openings smaller than 100mm and no member between 140mm and 900mmthat facilitates climbing. [9.8.8.5., 9.8.8.6.]
- The triangular openings formed by stair risers, stair treads and the bottom element of a required guard shall be of a size that prevents the passage of a 150mm diam sphere. [9.8.8.5.(2)]

28. PLUMBING:

- Every dwelling requires a kitchen sink, lavatory, water closet, bathtub or shower stall, and the installation or availability of laundry facilities.
 [9.31.4.1., 9.31.4.1a.]
- A floor drain must be installed in the basement and connected to the sanitary sewer where gravity drainage is possible. Otherwise, it must connect to a sewage ejection pump. [9.31.4.3.]

29. ELECTRICAL:

- An exterior light controlled by an interior switch is required at every entrance. [9.34.2.1.]
- A light controlled by a switch is required in every kitchen, bedroom, living room, utility room, laundry room, dining room, bathroom, vestibule, hallway, garage, and carport. A switched receptacle may be provided instead of a light in bedrooms and living rooms. [9.34.2.2.]
- Stairs shall be lighted, and except where serving an unfinished basement shall be controlled by a 3-way switch at the head and foot of the stairs. [9.34.2.3.]
- Basements require a light for each 30m², controlled by a switch at the head of the stairs. [9.34.2.4.]

30. MECHANICAL VENTILATION:

- A mechanical ventilation system is required with a total capacity at least equal to the sum of: 10.0 L/s for each basement and master bedroom, 5.0 L/s for each additional room. [Table 9.32.2.3.]
- A principal dwelling exhaust fan shall be installed and controlled by a centrally located switch identified as such. [9.32.3.3.]
- A supplemental exhaust fan with a rated capacity not less than 50 L/s shall be installed in the kitchen, and 25 L/s in the bathrooms. [9.32.3.7.]
- A Heat Recovery Ventilator (HRV) may be employed in lieu of exhaust to provide ventilation. An HRV is required if any solid fuel-burning appliances are installed. [9.32.3.3.]
- Supply air intakes must be located to avoid contamination from exhaust outlets. [9.32.3.13.]



ROOF RAFTERS (WHERE NO CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | |
|------------------------|-----------|----------------|----------|--------------------------|------|------|
| RAFTER | ROOF SNO | W LOAD 1.0 kPa | ROOF SNO | N LOAD 1.5 kPa | a | |
| SIZE | RAFTER SF | PACING (mm) O. | C. | RAFTER SPACING (mm) O.C. | | |
| | 300 | 400 | 600 | 300 | 400 | 600 |
| 38x89 | 3.11 | 2.83 | 2.47 | 2.72 | 2.47 | 2.16 |
| 38x140 | 4.90 | 4.45 | 3.89 | 4.28 | 3.89 | 3.40 |
| 38x184 | 6.44 | 5.85 | 5.11 | 5.62 | 5.11 | 4.41 |
| 38x235 | 8.22 | 7.47 | 6.38 | 7.18 | 6.52 | 5.39 |

ROOF JOISTS (WHERE CEILING IS INSTALLED)

| MAXIMUM CLEAR SPAN (m) | | | | | | |
|------------------------|-----------|----------------|----------|-------------------------|------|------|
| JOIST | ROOF SNO | W LOAD 1.0 kPa | ROOF SNO | V LOAD 1.5 kPa | a | |
| SIZE | JOIST SPA | CING (mm) O.C. | | JOIST SPACING (mm) O.C. | | |
| | 300 | 400 | 600 | 300 | 400 | 600 |
| 38x89 | 2.47 | 2.24 | 1.96 | 2.16 | 1.96 | 1.71 |
| 38x140 | 3.89 | 3.53 | 3.08 | 3.40 | 3.08 | 2.69 |
| 38x184 | 5.11 | 4.64 | 4.05 | 4.46 | 4.05 | 3.54 |
| 38x235 | 6.52 | 5.93 | 5.18 | 5.70 | 5.18 | 4.52 |

FLOOR JOISTS

| MAXIMUM CLEAR SPAN (m) | | | | | | | | | | | | |
|------------------------|--------------------------------------|-----------|------------------|-------------------------|------|------------------------------|---------|-----------------------------|----------|-------------------------|------|------|
| JOIST | 19x64mm STRAPPING OR DRYWALL CLG. | | 38x38m BRIDGI | nm CROSS ING | 8 | BOTH STRAPPING & BRIDGING | | 38-51mm CONCRETE TOPPING | | | | |
| SIZE | JOIST SF | PACING (n | nm) O.C. | JOIST SPACING (mm) O.C. | | | JOIST S | PACING (| mm) O.C. | JOIST SPACING (mm) O.C. | | |
| | 300 | 400 | 600 | 300 | 400 | 600 | 300 | 400 | 600 | 300 | 400 | 600 |
| 38x89 | 1.8 | 1.72 | 1.58 | 1.99 | 1.81 | 1.58 | 1.99 | 1.81 | 1.58 | 1.99 | 1.81 | 1.58 |
| 38x140 | 2.92 | 2.71 | 2.49 | 3.14 | 2.85 | 2.49 | 3.14 | 2.85 | 2.49 | 3.14 | 2.85 | 2.49 |
| 38x184 | 3.54 | 3.36 | 3.20 | 3.81 | 3.58 | 3.27 | 3.99 | 3.72 | 3.27 | 4.12 | 3.75 | 3.27 |
| 38x235 | 4.17 | 3.96 | 3.77 | 4.44 | 4.17 | 3.92 | 4.60 | 4.29 | 4.00 | 5.27 | 4.79 | 4.13 |
| 38x286 | 4.75 | 4.52 | 4.30 | 5.01 | 4.71 | 4.42 | 5.17 | 4.82 | 4.49 | 6.23 | 5.81 | 4.79 |

CEILING JOISTS

| MAXIMUM CLEAR SPAN (m) | | | | | |
|-------------------------------|------|------|------|--|--|
| JOIST JOIST SPACING (mm) O.C. | | | | | |
| SIZE | 300 | 400 | 600 | | |
| 38x89 | 3.11 | 2.83 | 2.47 | | |
| 38x140 | 4.90 | 4.45 | 3.89 | | |
| 38x184 | 6.44 | 5.85 | 5.11 | | |
| 38x235 | 8.22 | 7.47 | 6.52 | | |

SUBFLOORING

| FLOOR JOIST UP TO (mm) O.C. | SUBFLOORING MIN. THICKNESS (mm) | | | | | |
|-----------------------------------|---------------------------------|-----------|--------|--|--|--|
| | PLYWOOD | WAFER BD. | LUMBER | | | |
| 400 | 15.5 | 15.9 | 17.0 | | | |
| 500 | 15.5 | 15.9 | 19.0 | | | |
| 600 | 18.5 | 19.0 | 19.0 | | | |

ROOF SHEATHING

| ROOF FRAMING UP TO (mm) O.C. | ROOF SHEATHING MIN. THICKNESS (mm) UNSUPPORTED EDGES | ROOF SHEATHING MIN. THICKNESS (mm) TONGUE & GROOVE, 'H'-CLIPS OR OTHER EDGE SUPPORT |
|------------------------------------|--|--|
| 300 | 7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER | 7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER |
| 400 | 9.5 PLYWOOD, 11.1 WAFER BD. OR 17.0 LUMBER | 7.5 PLYWOOD, 9.5 WAFER BD. OR 17.0 LUMBER |
| 600 | 12.5 PLYWOOD OR 19.0 LUMBER | 9.5 PLYWOOD, 11.1 WAFER BD. OR 19.0 LUMBER |

GENERAL NOTES

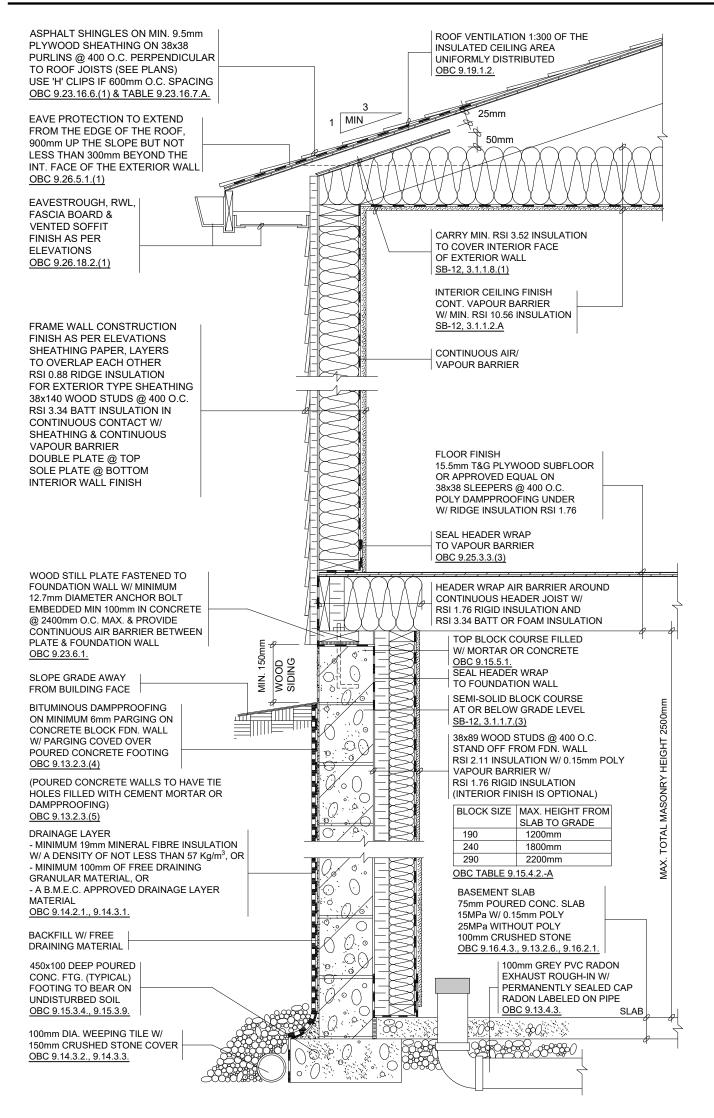
- 1. ALL LUMBER TO BE NO. 1 & 2 SPF OR BETTER
- 2. STRAPPING & CROSS BRIDGING MAXIMUM 2100mm FROM SUPPORT & OTHER ROWS OF STRAPPING & BRIDGING.
- 3. CEILING JOIST TABLE MAY BE APPLIES ONLY WHERE ATTIC IS BOT ACCESSIBLE BY A STAIRWAY.
- 4. WHERE FINISHED FLOORING CONSISTS OF 19mm WOOD STRIPS, SUBFLOOR MAY BE REDUCED TO 12.7mm.

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FRAME WALL SECTION | WO

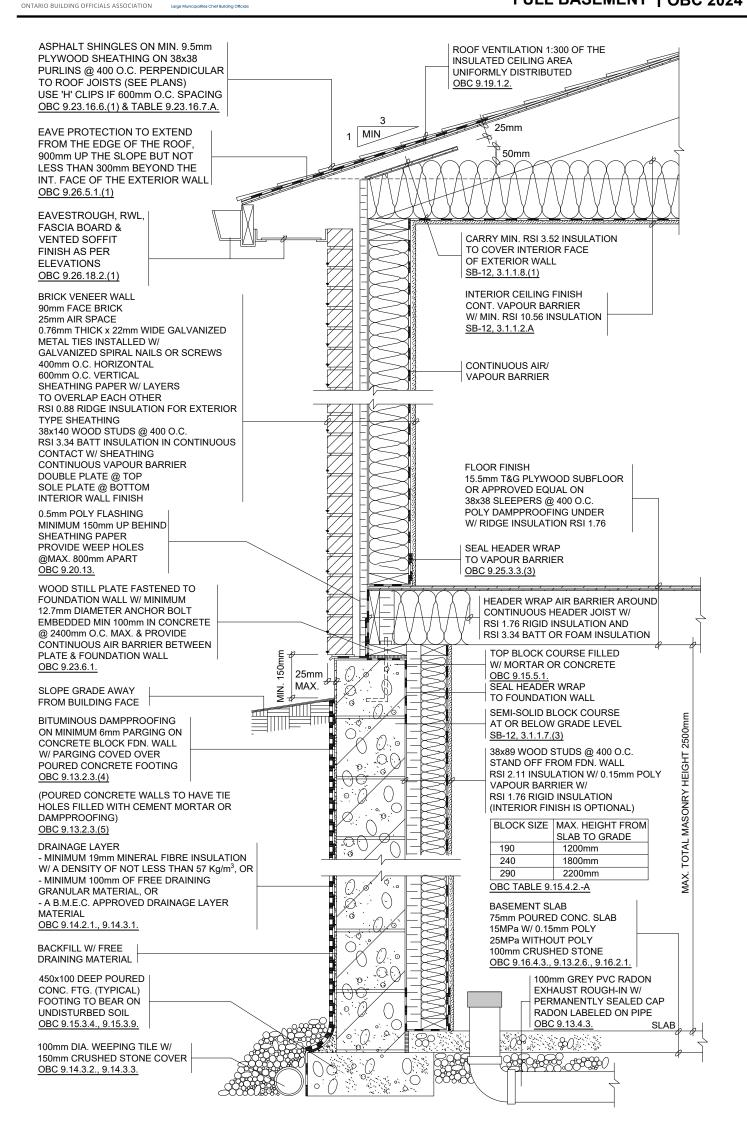
FULL BASEMENT | OBC 2024



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



FULL BASEMENT | OBC 2024



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

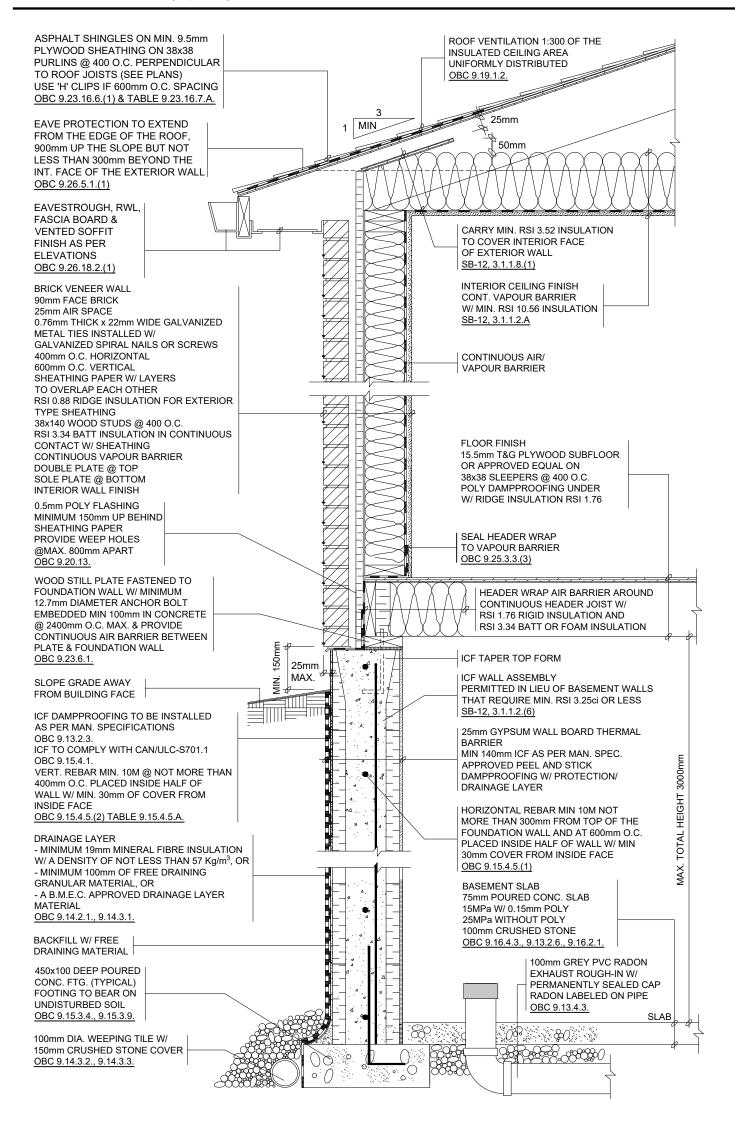
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ICF FOUNDATION WALL OBC 2024

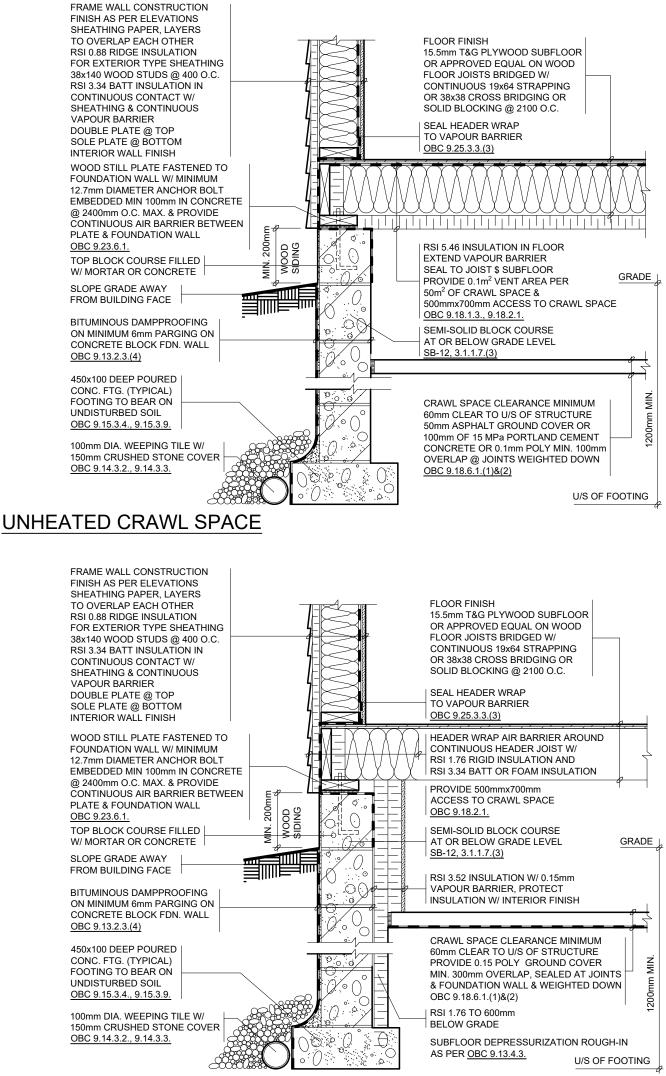


Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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ONTARIC

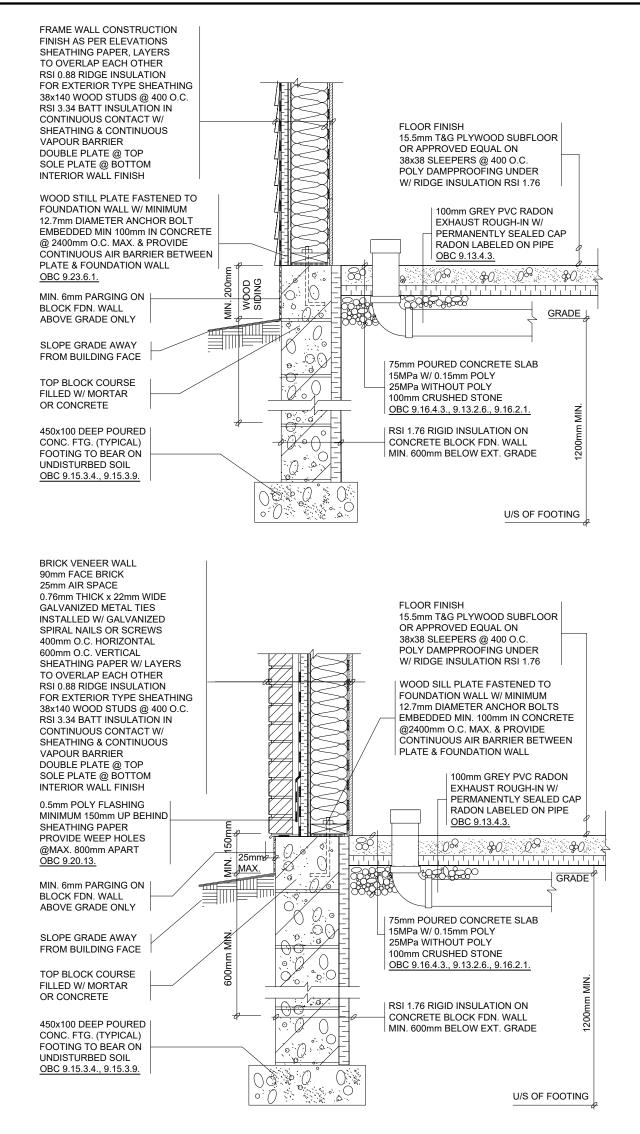




HEATED CRAWL SPACE

Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



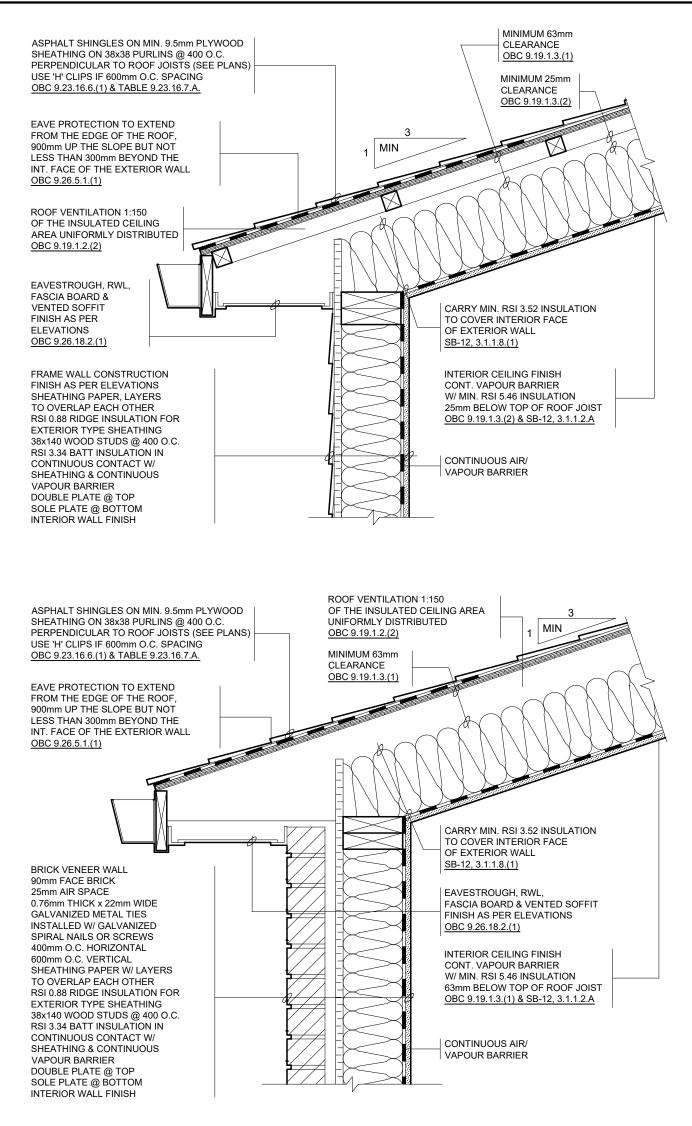


Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



SLOPING ROOF DETAIL | W06a

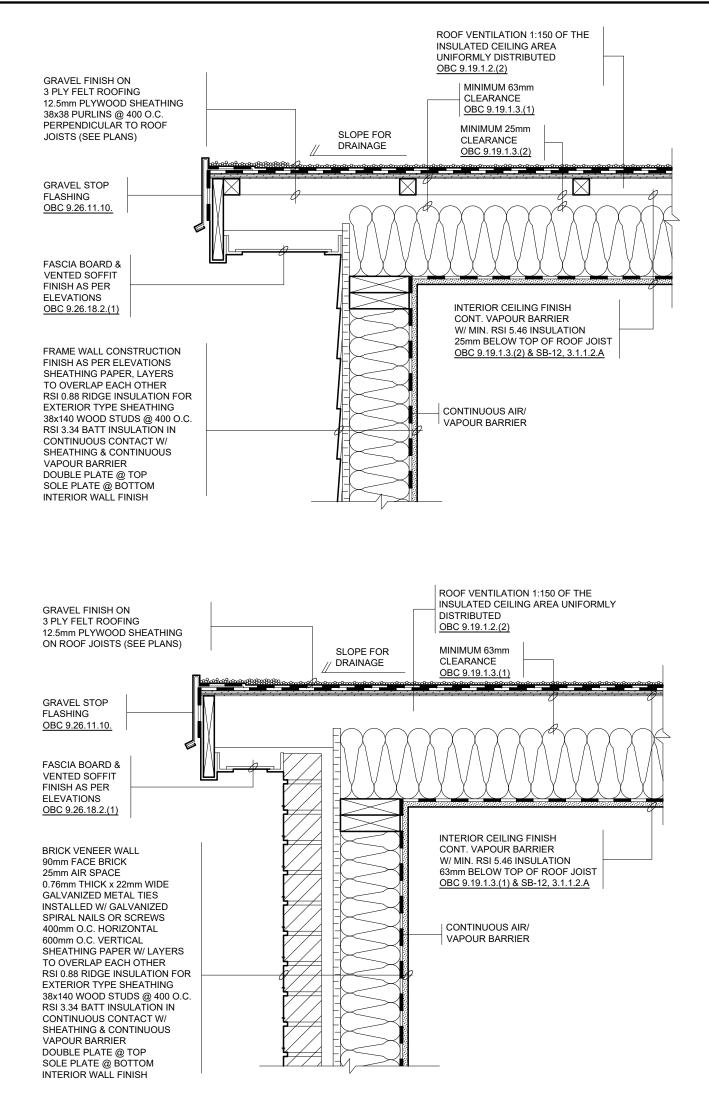
INSULATION & VENTILATION | OBC 2024



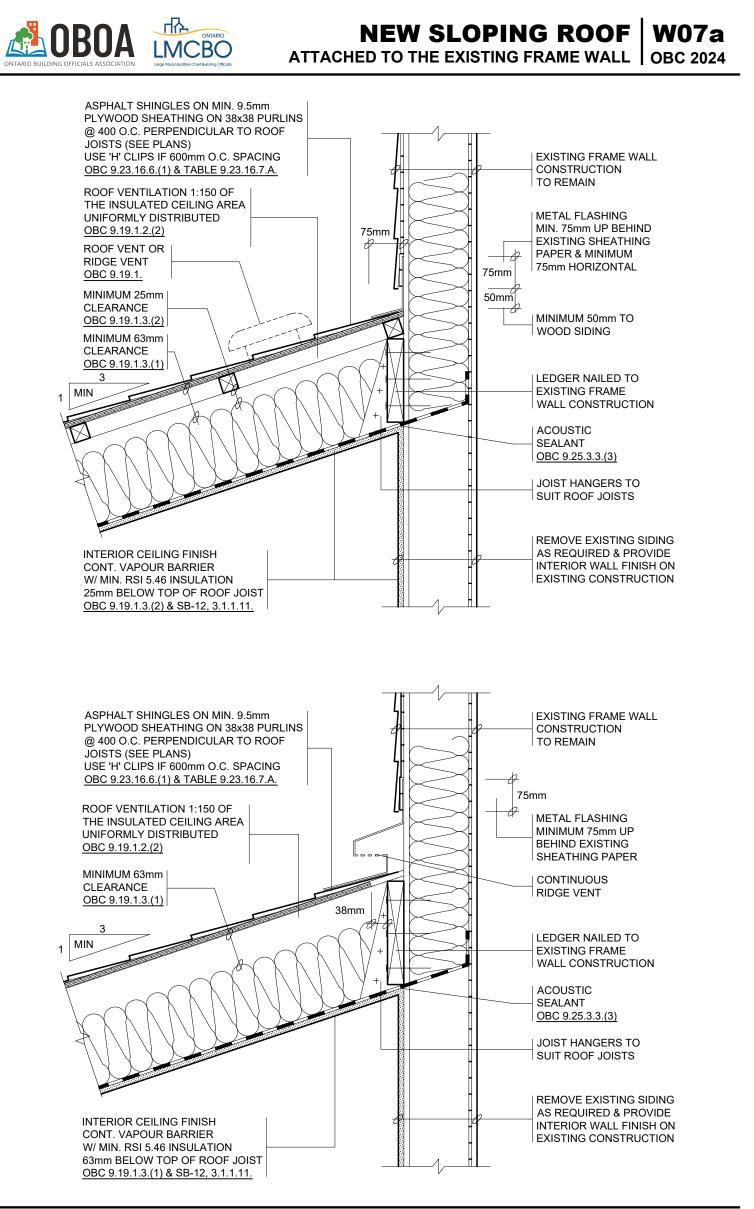
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



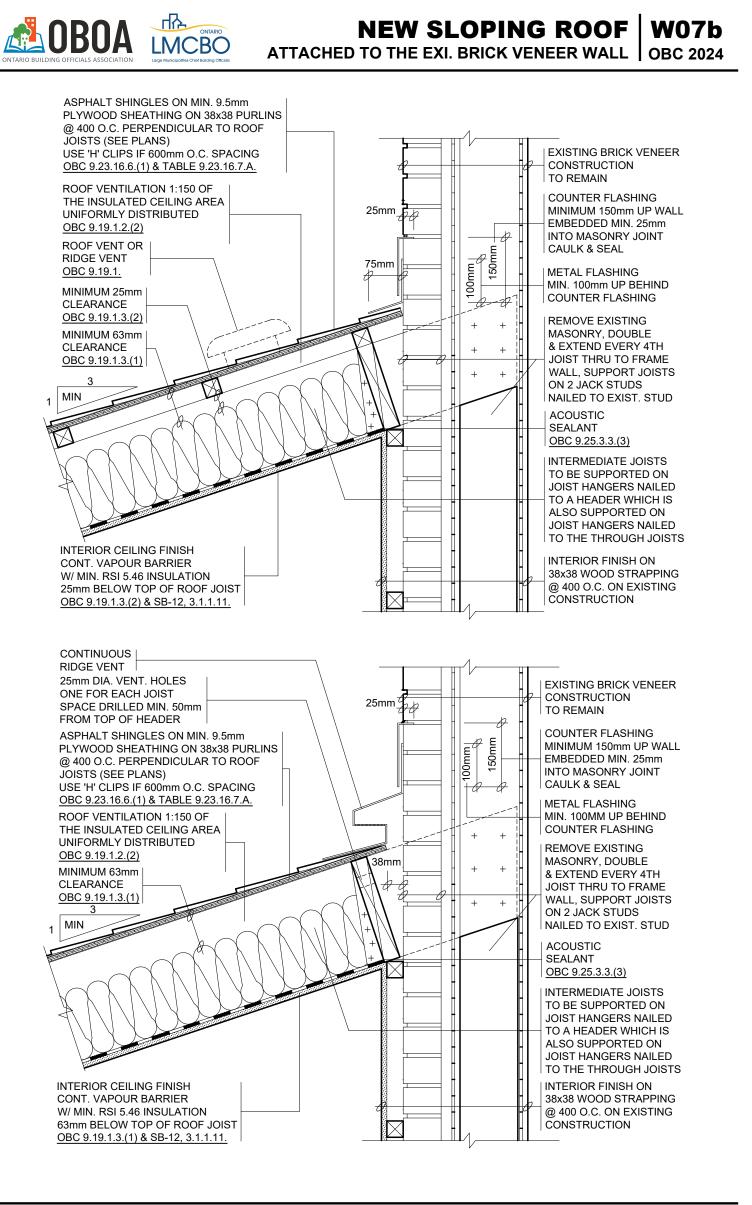
FLAT ROOF DETAIL W06b INSULATION & VENTILATION OBC 2024

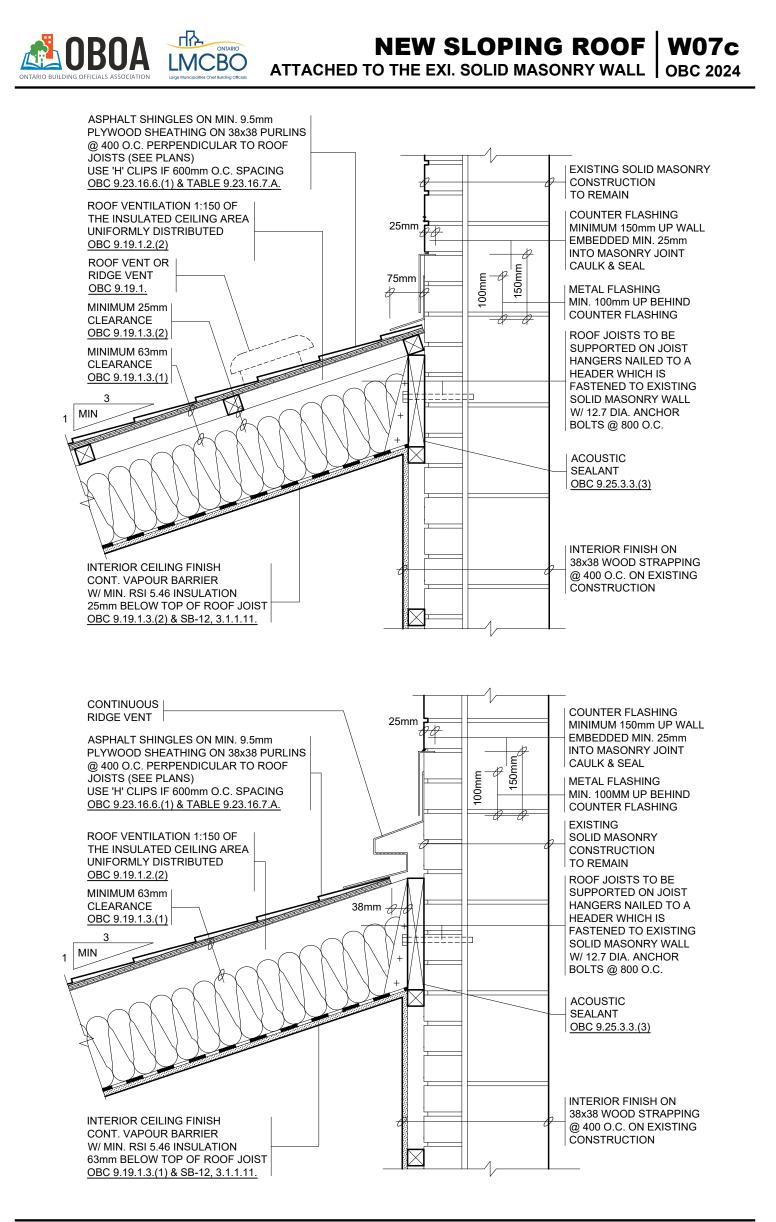


Energy Efficiency Compliance: SB-12: Zone 1 - Package A2



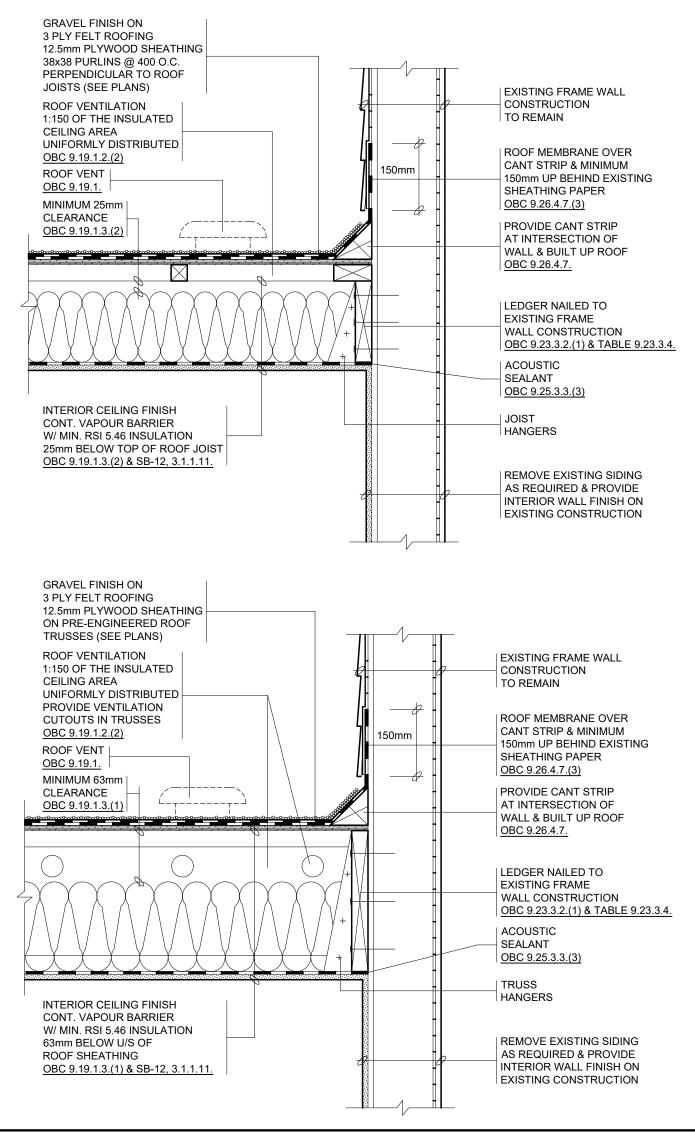
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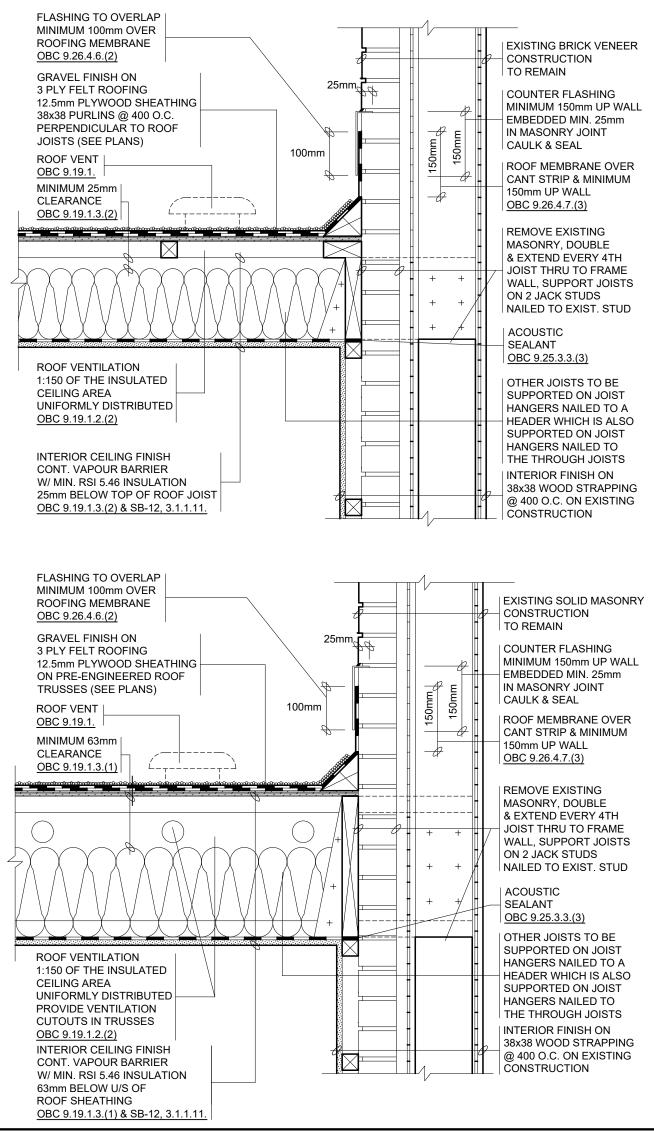
NEW FLAT ROOF W08a ATTACHED TO THE EXISTING FRAME WALL OBC 2024



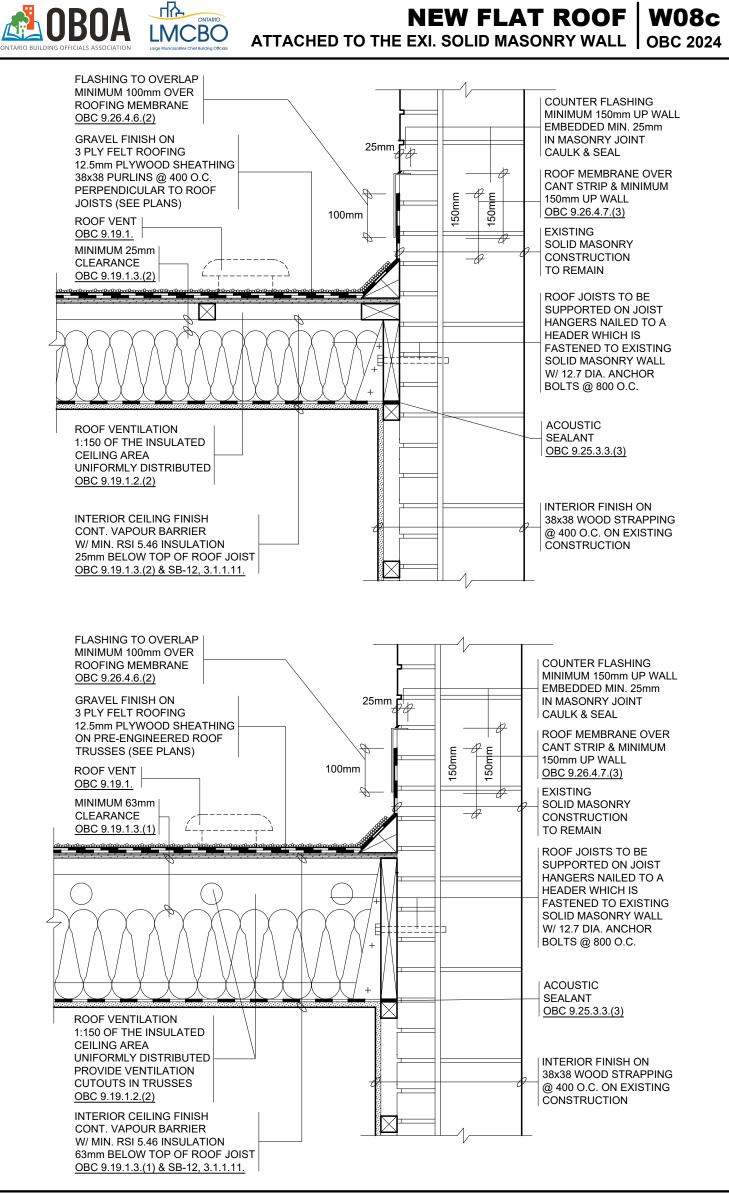
Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1



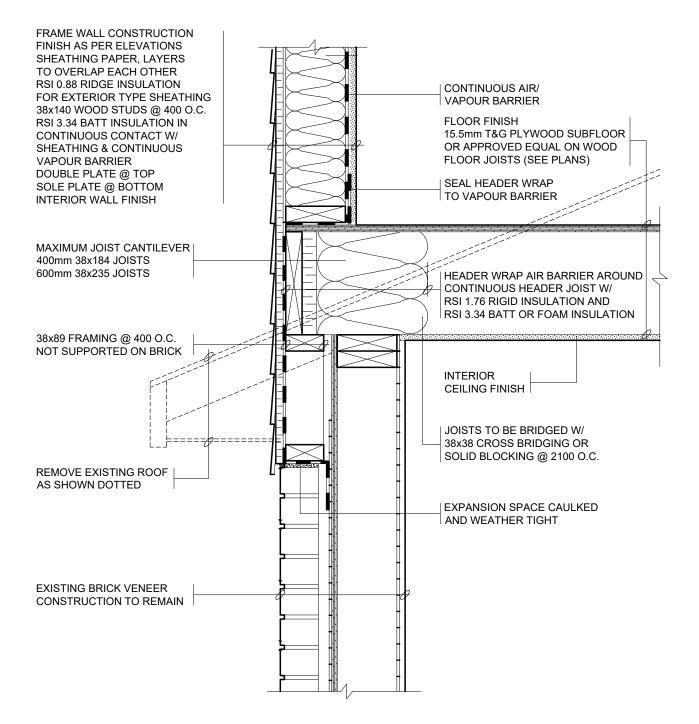
NEW FLAT ROOF W08b ATTACHED TO THE EXI. BRICK VENEER WALL OBC 2024



Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1

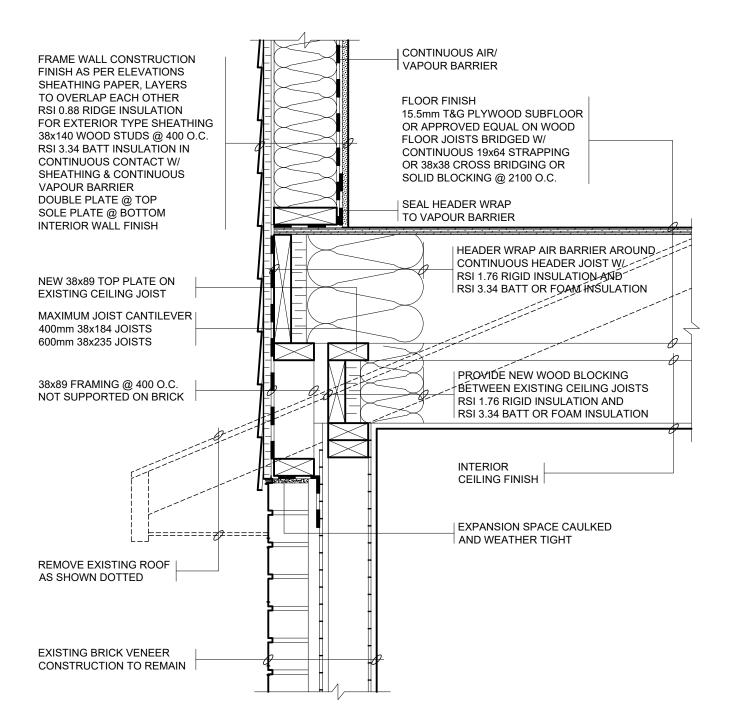








MAINTAIN EXISTING CEILING | OBC 2024



BOA

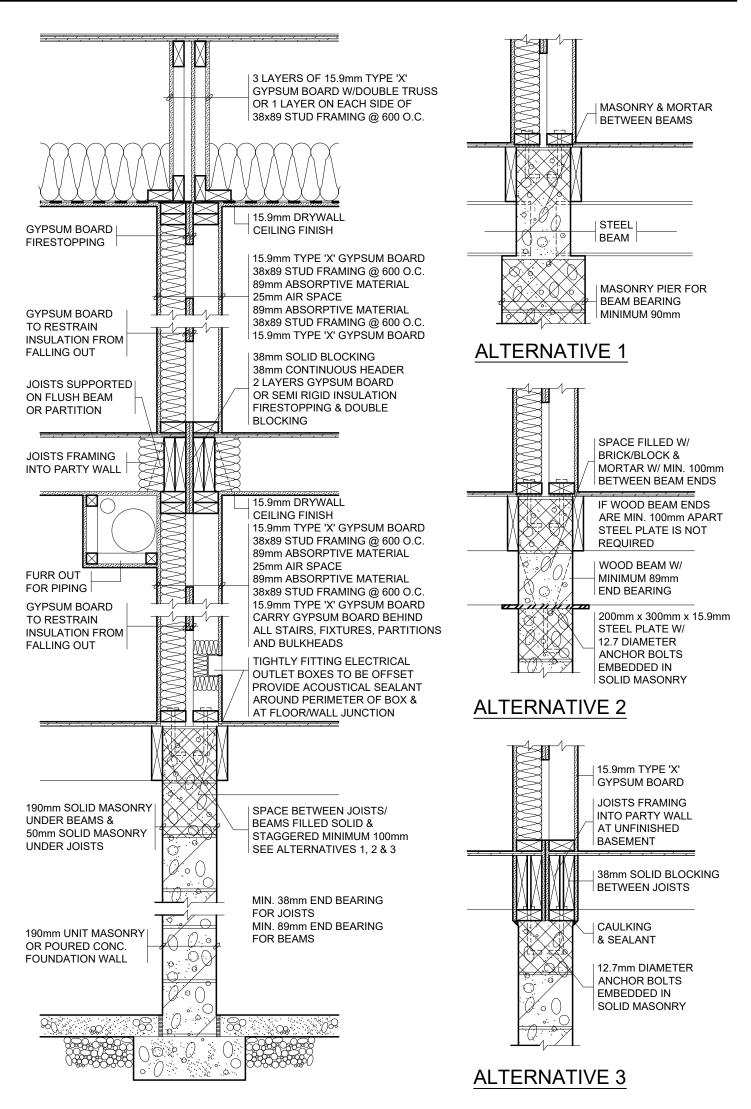
ONTARIC

Energy Efficiency Compliance: SB-12: SB-12 Table 3.1.1.11. Zone 1



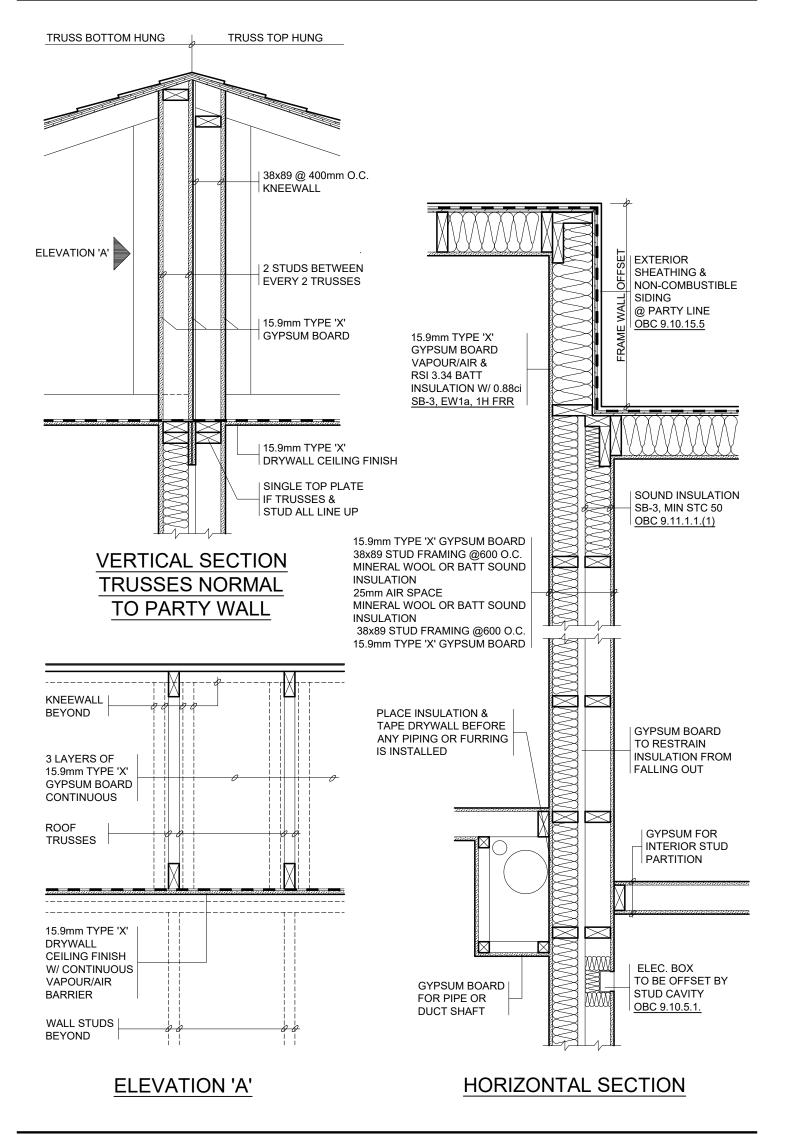
FRAME PARTY WALL | W10a

VERTICAL SECTION OBC 2024



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2





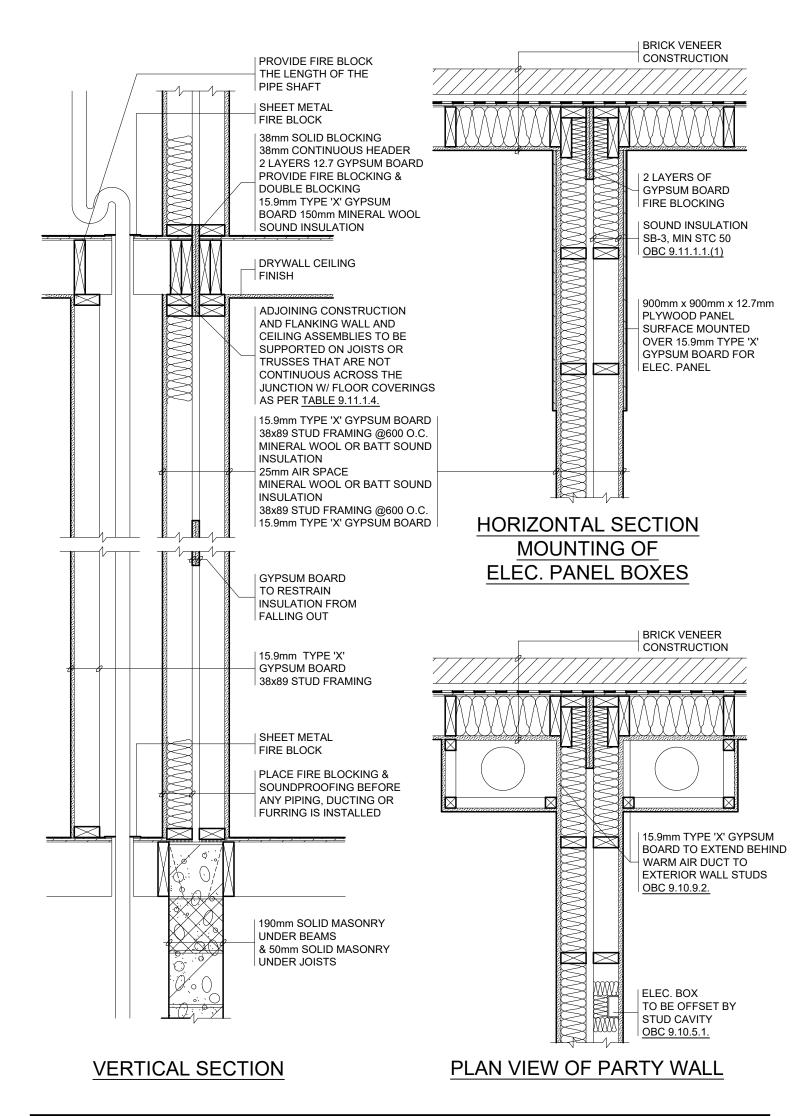
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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FRAME PARTY WALL | W10c

SERVICE DETAILS OBC 2024



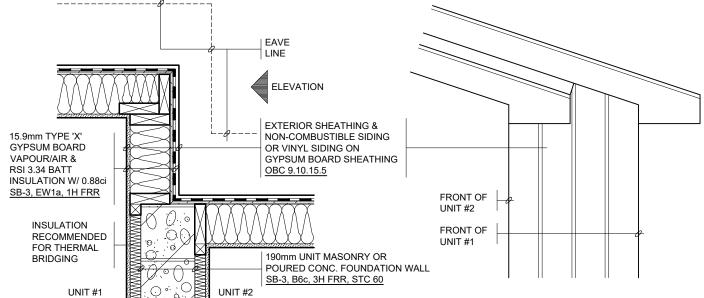
Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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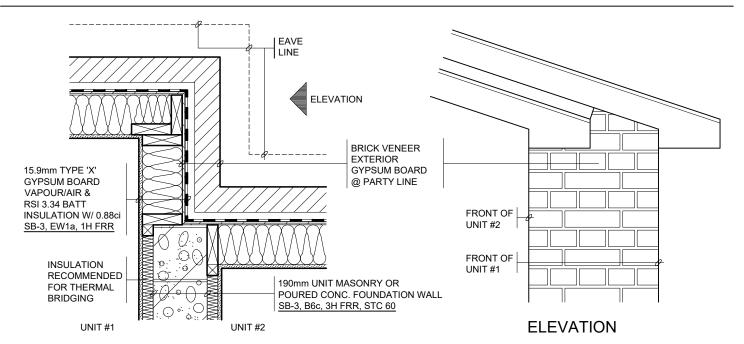
FRAME PARTY WALL W10d

ELEVATIONS, PLAN & DETAILS | OBC 2024

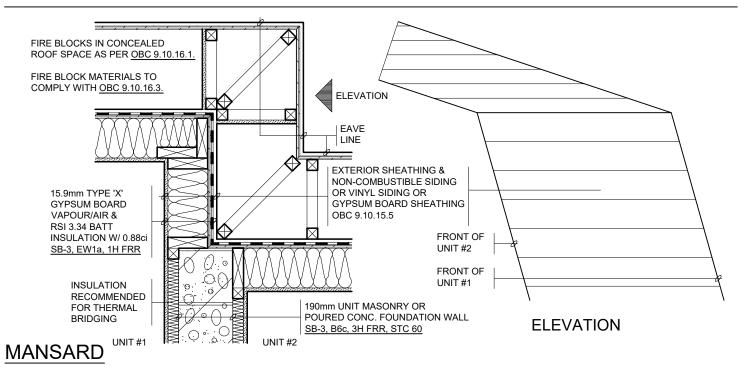


ELEVATION

NON-COMBUSTIBLE SIDING



BRICK VENEER



Energy Efficiency Compliance: SB-12: Zone 1 - Package A2

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