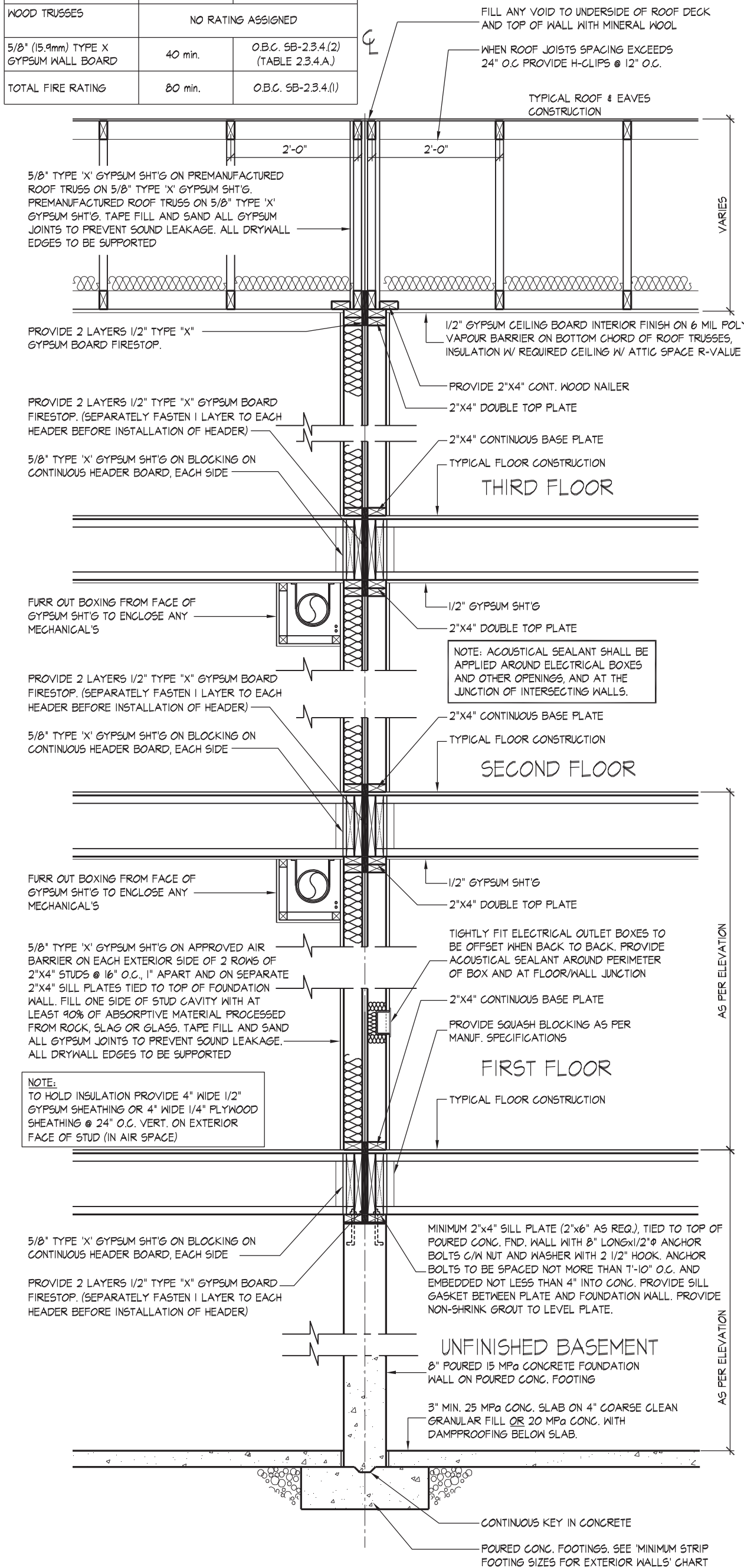


FIRE RATINGS - PARTY WALL TRUSS SPACE (OBC REF. - SB-2.3)		
COMPONENT	FIRE RATING	CODE REFERENCE
5/8" (15.9mm) TYPE X GYPSUM WALL BOARD	40 min.	O.B.C. SB-2.3.4(2) (TABLE 2.3.4.A)
WOOD TRUSSES	NO RATING ASSIGNED	
5/8" (15.9mm) TYPE X GYPSUM WALL BOARD	40 min.	O.B.C. SB-2.3.4(2) (TABLE 2.3.4.A)
TOTAL FIRE RATING	80 min.	O.B.C. SB-2.3.4(1)

FIRE & SOUND RATINGS - PARTY WALL		
WALL TYPE	CODE REFERENCE	RATING
W3C	O.B.C. SB-3	54 STC 10 HR FR



NOTE: POURED CONC. FOOTING ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa. FOOTING SIZE SHOWN FOR 16'-0" (4.9m) MAXIMUM JOIST SPAN ONLY. JOIST SPAN EXCEEDING 16'-0" (4.9m) SHALL BE ENGINEERED. IF SOIL BEARING DOES NOT MEET MINIMUM CAPACITY, ENGINEERED FOOTINGS ARE REQUIRED. ACTUAL SOIL BEARING CAPACITY TO BE VERIFIED WITH SOIL ENGINEERING REPORT.

MINIMUM STRIP FOOTING SIZES (9.15.3)			
NUMBER FLOORS SUPPORTED	SUPPORTING INT. LOAD BEARING MASONRY WALL	SUPPORTING EXTERIOR	SUPPORTING PARTY WALL
1	16" W x 6" D	16" W x 6" D	16" W x 6" D
2	24" W x 8" D	20" W x 6" D	24" W x 8" D
3	36" W x 14" D	26" W x 9" D	36" W x 14" D

NOTE: FOOTING SIZE SUBJECT TO CERTIFICATION BY A SOIL CONSULTANT

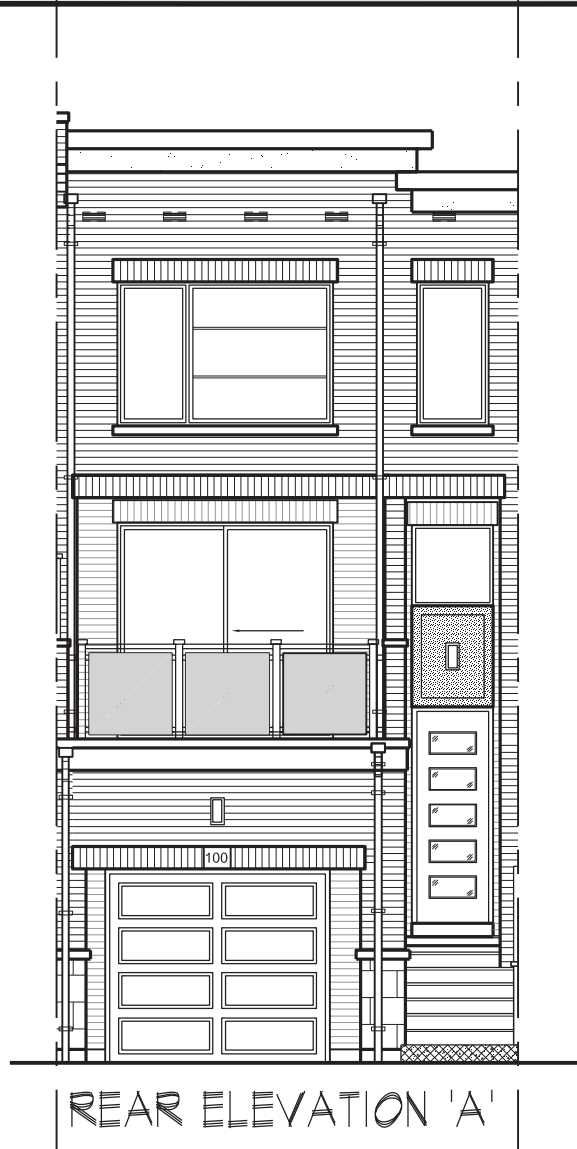
02

## TYPICAL 1 HR PARTY WALL SECTION, PARALLEL ROOF TRUSSES, 2"x4" DOUBLE STUDS - 3 STOREY

1/2" = 1'-0"



## FRONT ELEVATION 'A' 'DAFFODIL' - 1701



## REAR ELEVATION 'A'

## SB-12 ENERGY EFFICIENCY DESIGN MATRIX

PRESCRIPTIVE COMPLIANCE		SB-12 (SECTION 3.1.1) TABLE 3.1.1.2.A	
PACKAGE A1		SPACE HEATING FUEL	
		<input type="checkbox"/> GAS <input type="checkbox"/> OIL	<input type="checkbox"/> ELECTRIC <input type="checkbox"/> PROPANE
		<input type="checkbox"/> EARTH	<input type="checkbox"/> SOLID FUEL

BUILDING COMPONENT	REQUIRED	PROPOSED
INSULATION RSI (R) VALUE		
CEILING W/ ATTIC SPACE	10.56 (R60)	10.56 (R60)
CEILING W/O ATTIC SPACE	5.46 (R31)	5.46 (R31)
EXPOSED FLOOR	5.46 (R31)	5.46 (R31)
WALLS ABOVE GRADE	3.87 (R22)	3.87 (R22)
BASEMENT WALLS	3.52 ci (R20 ci) *	3.52 ci (R20 ci) *
* PROPOSED VALUES MAY BE SUBSTITUTED W/ 2.11+1.76ci (R12+R10ci)		
BELOW GRADE SLAB ENTIRE SURFACE > 600mm BELOW GRADE	-	-
EDGE OF BELOW GRADE SLAB ≤ 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
HEATED SLAB OR SLAB ≤ 600mm BELOW GRADE	1.76 (R10)	1.76 (R10)
WINDOWS & DOORS		
WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE)	1.6	1.6
SKYLIGHTS (MAX. U-VALUE)	2.8	2.8
APPLIANCE EFFICIENCY		
SPACE HEATING EQUIP. (AFUE%)	96%	96%
HRV EFFICIENCY (%)	75%	75%
DHW HEATER (EF)	0.8	0.8

### AREA CALCULATIONS

EL. 'A'	
GROUND FLOOR AREA	549 sq. ft.
MAIN FLOOR AREA	909 sq. ft.
THIRD FLOOR AREA	1016 sq. ft.
SUBTOTAL	2474 sq. ft.
DEDUCT ALL OPEN AREAS	2 sq. ft.
TOTAL NET AREA	2472 sq. ft. (229.66 sq. m.)
COVERAGE W/OUT PORCH	909 sq. ft. (84.45 sq. m.)
COVERAGE W/ PORCH	1116 sq. ft. (103.68 sq. m.)
WINDOW / WALL AREA CALCULATIONS	EL. A
GROSS WALL AREA	3948 sq. ft. (366.78 sq. m.)
GROSS WINDOW AREA (INCL. GLASS DOORS & SKYLIGHTS)	296 sq. ft. (27.50 sq. m.)
TOTAL WINDOW %	7.50 %



- 1 - TITLE PAGE
- 2 - BASEMENT PL. EL. 'A', GROUND FLOOR PL. EL. 'A', OPT. GROUND FLOOR PL. EL. 'A'
- 3 - MAIN FLOOR PLAN. EL. 'A', THIRD FLOOR PLAN EL. 'A', DETAILS
- 4 - FRONT & REAR ELEVATION 'A'
- 5 - CROSS SECTION 'B-B', CROSS SECTION 'A-A', & DETAILS
- 6 - PARTIAL CROSS SECTION & ROOF PLANS
- 7 - DETAILS
- 8 - CONSTRUCTION NOTES 1 &2



STAMP FOR STRUCTURAL ONLY, NOT INCLUDING PRE-ENGINEERED ROOF OR FLOOR SYSTEMS

7. ISSUED FOR FINAL APPROVAL	2019.05.17	DS
6. REVISED AS PER ARCHITECTURAL CONTROL COMMENTS	2019.04.26	BB
5. REVISED FOR OPTIONAL ROUGH-IN BASEMENT WASHROOM	2019.04.25	BB
4. REVISED AS PER STRUCTURAL ENGINEER COMMENTS	2018.08.07	MM
3. COORDINATE AS PER ROOF TRUSS & FLOOR MANUFACTURE PLANS	2019.04.29	BB
2. REVISED AS PER CLIENT'S COMMENTS (2018)	2018.10.19	DS
1. ISSUED FOR CLIENT REVIEW	2018.04.02	DS
REVISIONS		DATE (YYYYMMDD) BY









**FRONT ELEVATION 'A'**

**Legend:**

- TYP. CEMENTITIOUS BOARD (HARDIE BOARD PANEL OR EQ.) AS PER ELEVATION
- ROOF OVERHANGS TO BE 8" UNLESS NOTED OTHERWISE

**Dimensions and Notes:**

- Overall height: 33'-5" (10.4m) TOP OF ROOF
- Overall width: 50'-10" (14.4m) MEAN OF ROOF
- Roof overhangs: 8" (unless noted otherwise)
- Materials: 10" PRECAST CONC. (TYP.), 2 HR FIRE WALL (40A), LINE OF CORBELLING (TYP.), CONT. BRICK SOLDIER COURSE BAND W/ 1/2" PROJ. (TYP.), TOP OF PLATE, OUTLINE OF RAISED CEILING BEYOND, FACE BRICK (TYP.), PREFIN. METAL FLASHING W/ CAULKING TO MATCH BRICK COLOUR (TYP.), FIN. THIRD FLR., SCUPPER (TYP.), PRECAST CONC. SILL W/ 1/2" PROJ. (TYP.), FIN. MAIN FLR., BRICK SOLDIER COURSE W/ 1/2" PROJ. (TYP.), TOP OF WINDOW, SMOOTH STONE (TYP.), FIN. GROUND FLR., FIN. GRADE, PREMANUF. GALVANIZED CORRUGATED METAL WINDOW WELL SEE MANUF. FOR SIZES AND DEPTH LIMITS (TYP.), PERFORATED VERTICAL KEEPING TILE W/ FILTER CLOTH AND DRAIN CAP, BOTTOM OF PIPE TO TERMINATE 8" MIN. ABOVE FOOTING KEEPING TILE SYSTEM SURROUNDED BY LOOSE FILL CRUSHED STONE TO FILL WELL CAVITY, TERMINATE FILL 6" BELOW TOP OF FOUNDATION WALL, TOP OF BASEMENT SLAB.
- Windows: 32"x64", 32"x68", 64"x64", 64"x72", 64"x68", 64"x72", 64"x64", 64"x72", 64"x68", 64"x72
- Doors: 6'-0" HIGH P.V.C. T&G PRIVACY FENCE (TYP.), 6'-0" HIGH P.V.C. T&G PRIVACY FENCE (TYP.), 6'-0" HIGH P.V.C. T&G PRIVACY FENCE (TYP.)
- Other: 8" ALUM. FASCIA (TYP.), PREFIN. HARDIE BD. TRIM OR EQUAL (TYP.), CONTEMPORARY LAMP (TYP.), 12"x12" FIBER GLASS COL. TIED TOP & BOTTOM ON 14"x14" MASONRY PIER W/ INT. 4"x4" BUILT-UP POST TIED TOP & BOTTOM ON (TYP.), POURED CONC. PORCH SLAB AND DOOR SILL (TYP.), POURED CONC. FOUNDATION WALLS & FOOTINGS (TYP.), 4'-0" MIN.

REAR ELEVATION 'A'

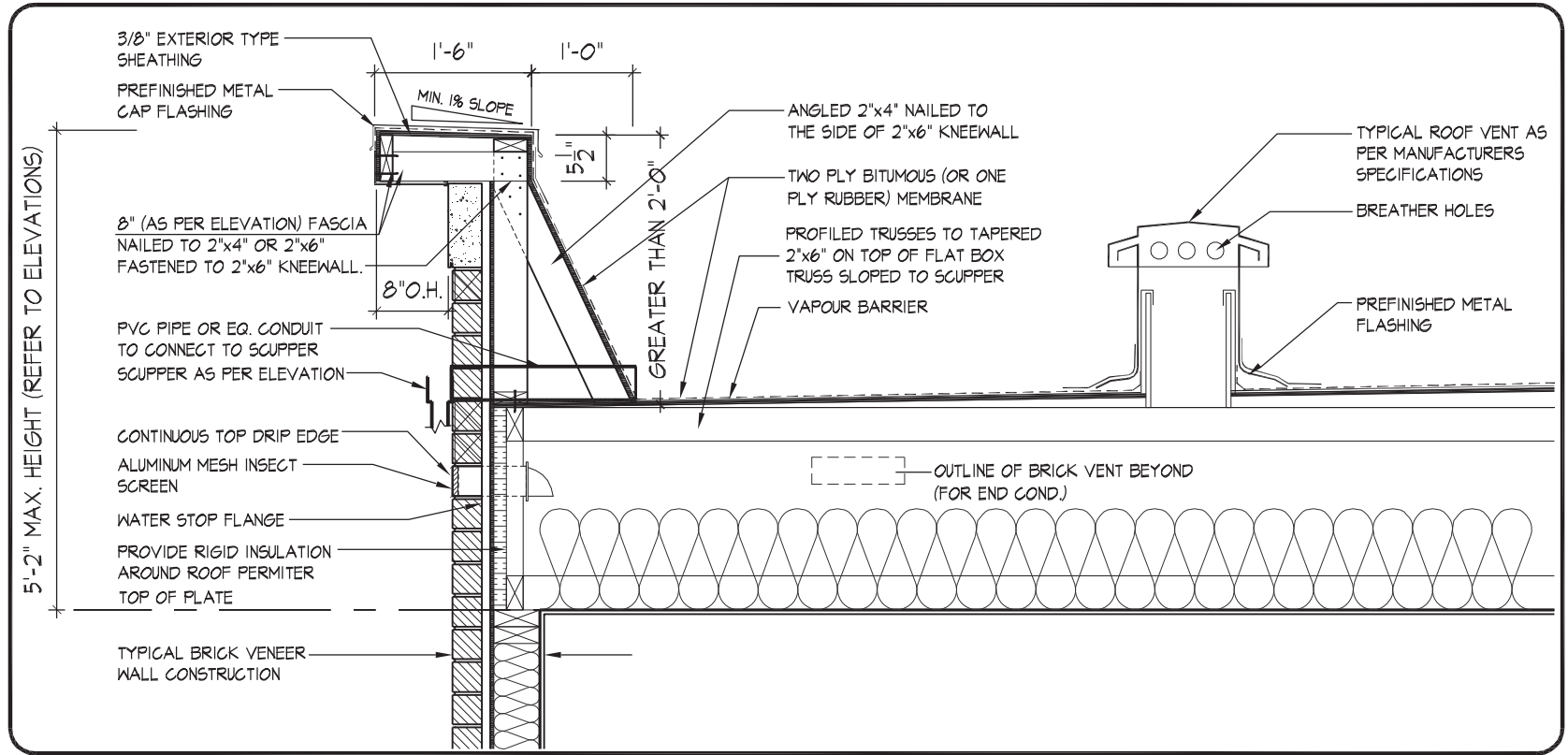
This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of BRAMPTON.

APPROVED BY: \_\_\_\_\_  
DATE: MAY 21, 2019  
This stamp certifies compliance with the applicable Design Guidelines only and bears no further professional responsibility.

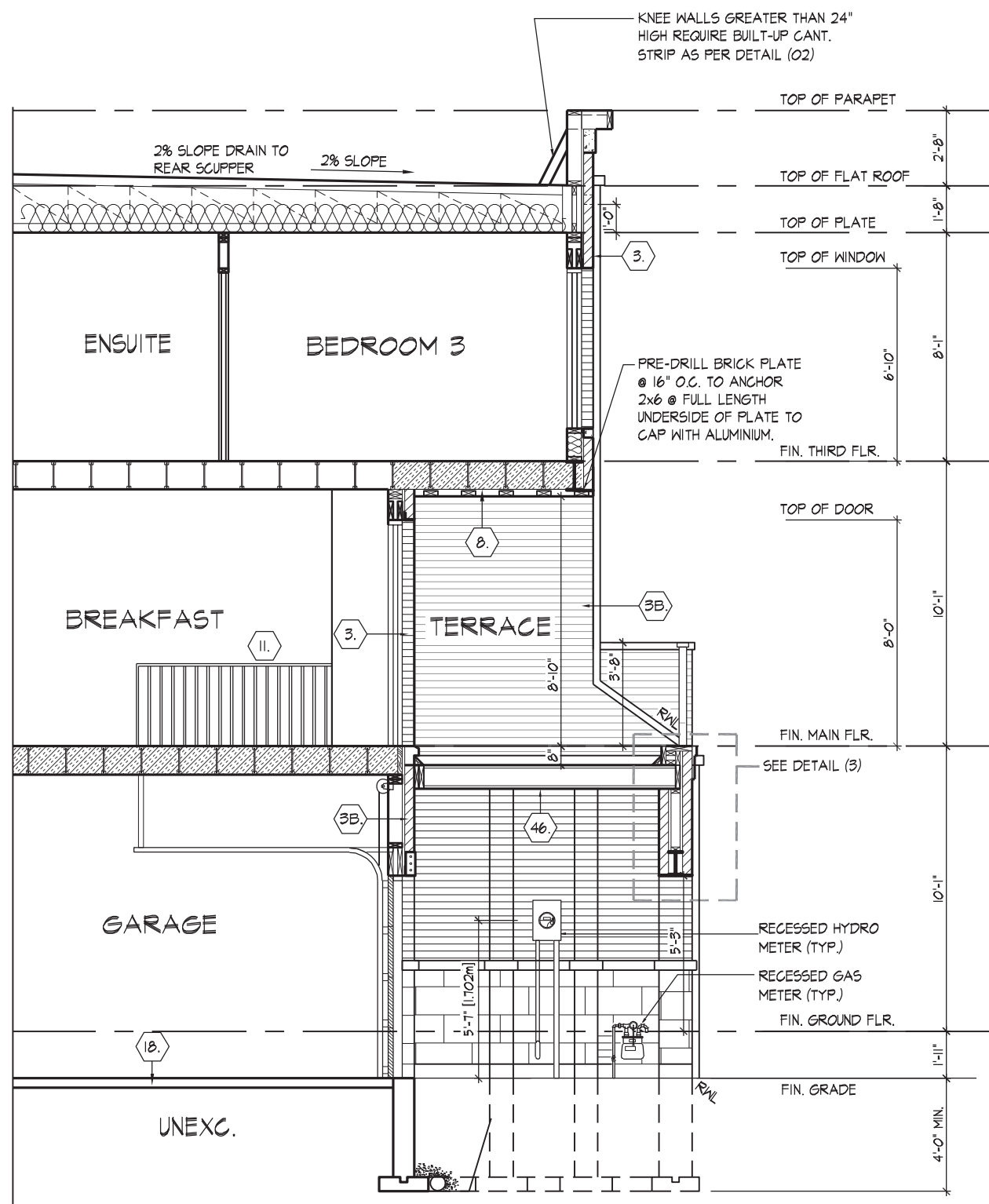
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8966 Woodbine Ave., Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7326				



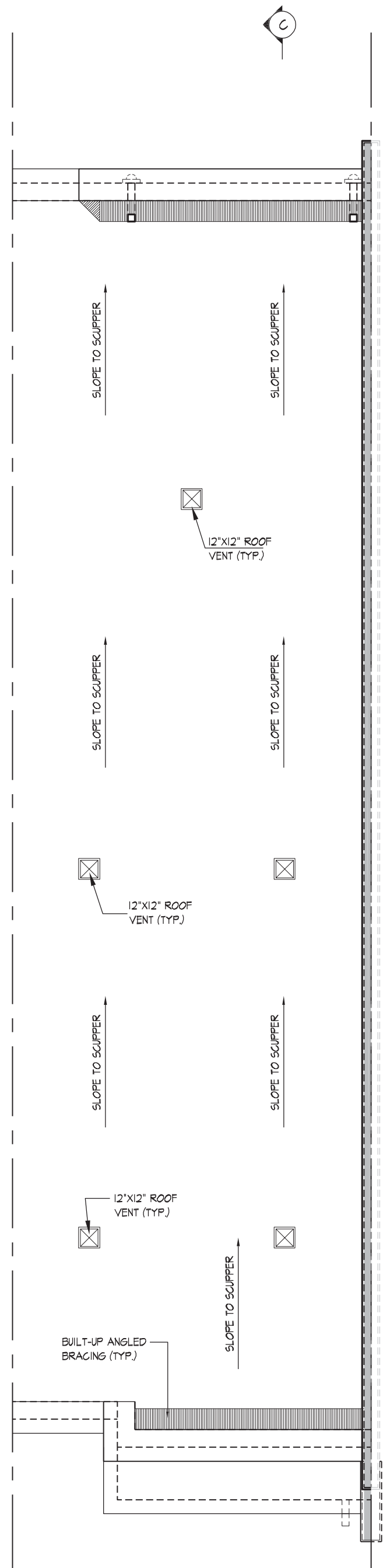




**02 PARAPET WALL GREATER THAN 24" WITH ANGLED BRACING**  
1/2"=1'-0"



PARTIAL SECTION 'C'



ROOF PLAN

ROOF SPACE TO BE VENTED AT 1:150 OF INSULATED CEILING. (AS PER O.B.C. 9.19.1)	
TOTAL ROOF SPACE	1030.17 ft <sup>2</sup>
TOTAL VENTILATION SPACE REQ'D	1030.17 ft <sup>2</sup> x 0.006 = 6.18 ft <sup>2</sup>
ROOF VENT SIZE	12"x12" = 1.0 ft <sup>2</sup>
MIN. 25% OF VENTING LOCATED AT THE TOP OF ROOF	
TOTAL # OF ROOF VENTS	5
TOTAL VENTILATION FROM ROOF VENTS	5 x 1.0 ft <sup>2</sup> = 5.0 ft <sup>2</sup>
MIN. 25% OF VENTING LOCATED AT THE BOTTOM OF ROOF (MIN. 1.545 ft <sup>2</sup> )	
BRICK VENT SIZE	4"x10" = 0.278 ft <sup>2</sup>
TOTAL # OF BRICK VENTS	10
TOTAL VENTILATION FROM ROOF VENTS	10 x 0.278 ft <sup>2</sup> = 2.78 ft <sup>2</sup>
TOTAL VENTILATION SPACE FROM ROOF & BRICK VENTS	2.78 ft <sup>2</sup> + 5.0 ft <sup>2</sup> = 7.78 ft <sup>2</sup>

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER.  
QUALIFICATION INFORMATION  
DEREK R. SANTOS  
NAME  
REGISTRATION INFORMATION  
HUNT DESIGN ASSOCIATES INC.  
19695

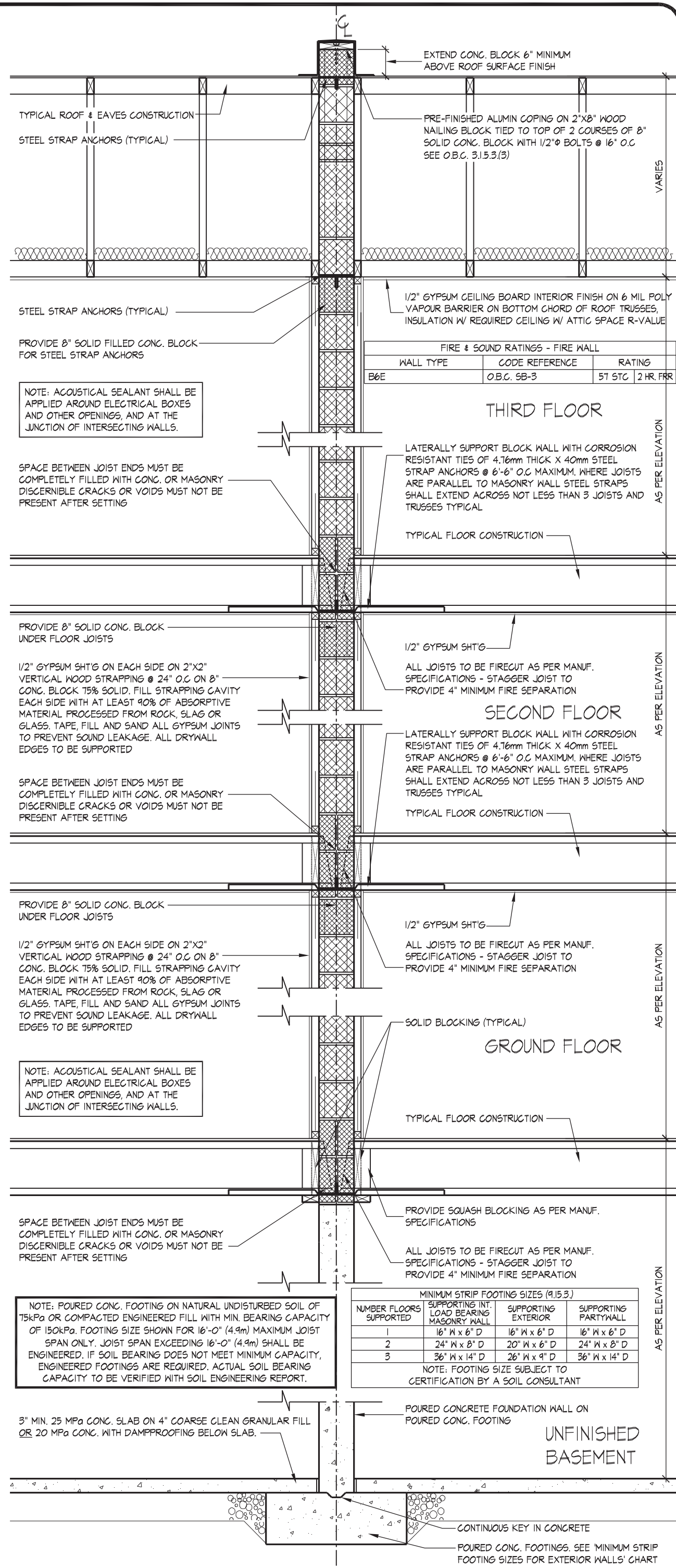
37308  
BCIN  
SIGNATURE

**HUNT**  
DESIGN ASSOCIATES INC.  
www.hunt-design.ca

**PARTIAL CROSS SECTION & ROOF PLANS**  
**ROYAL PINE HOMES-FORESTSIDE ESTATES PH2 - 215044 'DAFFODIL' - 1701**  
**"MANOR OF CLAIREVILLE", BRAMPTON, ONT. REV.2019.05.17**  
Drawn By: NS  
Checked By: DS  
Scale: 3/16"=1'-0"  
File Number: 215044WS1701.DWG  
Page Number: 6 of 8

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02 TYPICAL 2 HR FIREWALL SECTION 3 STOREY, PARALLEL ROOF TRUSSES  
1/2" = 1'-0"

AS PER O.B.C. 3.1.10.7(2) IF BUILDINGS ARE SEPARATED BY A FIREWALL, COMBUSTIBLE PROJECTIONS ON THE EXTERIOR OF ONE BUILDING THAT EXTEND OUTWARD BEYOND THE END OF THE FIREWALL, SHALL NOT BE PERMITTED WITHIN 2.4m OF COMBUSTIBLE PROJECTIONS AND WINDOW/DOOR OPENINGS OF ADJACENT BUILDING. IF COMBUSTIBLE PROJECTIONS ARE LESS THAN THE 2.4m MINIMUM DISTANCE CONTINUE THE FIREWALL & CORBEL CONSTRUCTION TO THE HEIGHT OF THE COMBUSTIBLE PROJECTIONS TO A MINIMUM OF 6' FROM THE TOP OF THE COMBUSTIBLE PROJECTION SURFACE.

OUTLINE OF DORMER OR COMBUSTIBLE PROJECTION BEYOND EXTENDED FIREWALL AND MASONRY CORBEL

PRE-FINISHED ALUMINUM COPING ON 2"x8" WOOD BLOCKING TIED TO TOP OF 2 COURSES OF 8" SOLID CONC. BLOCK WITH 1/2" BOLTS @ 16" O.C. SEE O.B.C. 9.10.6.1.(1)

LINE OF TOP OF ROOF BEYOND

CONFORMING TO SB-2 TABLE 2.1.1. & SECTION 2.1.2. PROVIDE SOLID BRICK UNITS OR CORED BRICK 100% SOLID FILLED WITH MORTAR ON 8" CONC. BLOCK BEHIND FLASHING.

FIREWALL TO EXTEND 8" (200mm) MIN. ABOVE ROOF

PRE-FINISHED ALUMINUM FASCIA WITH RAINWATER LEADER

U/S OF SOFFIT

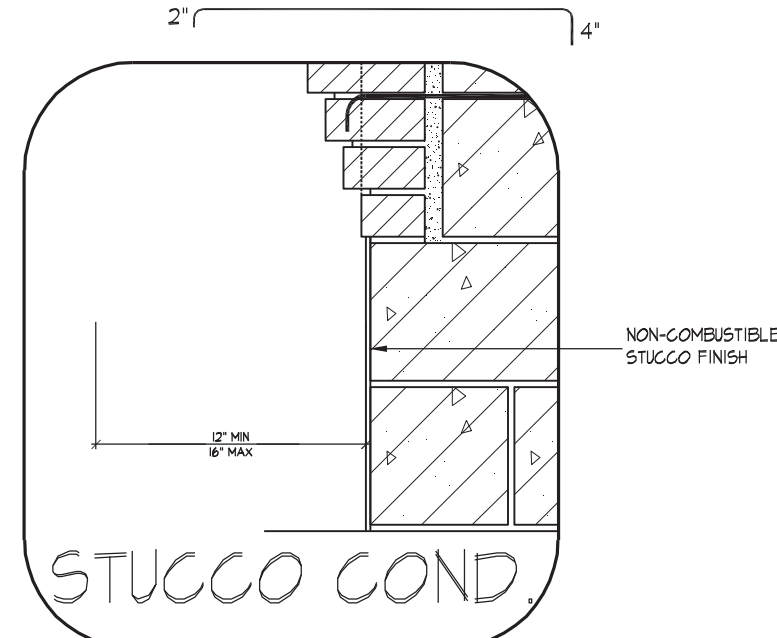
LINE OF SOFFIT BEYOND

CONFORMING TO SB-2 TABLE 2.1.1. & SECTION 2.1.2. PROVIDE SOLID BRICK UNITS OR MINIMUM 80% SOLID BRICK UNIT ON EXTENDED PROJECTIONS REQUIRING 2HR RATING.

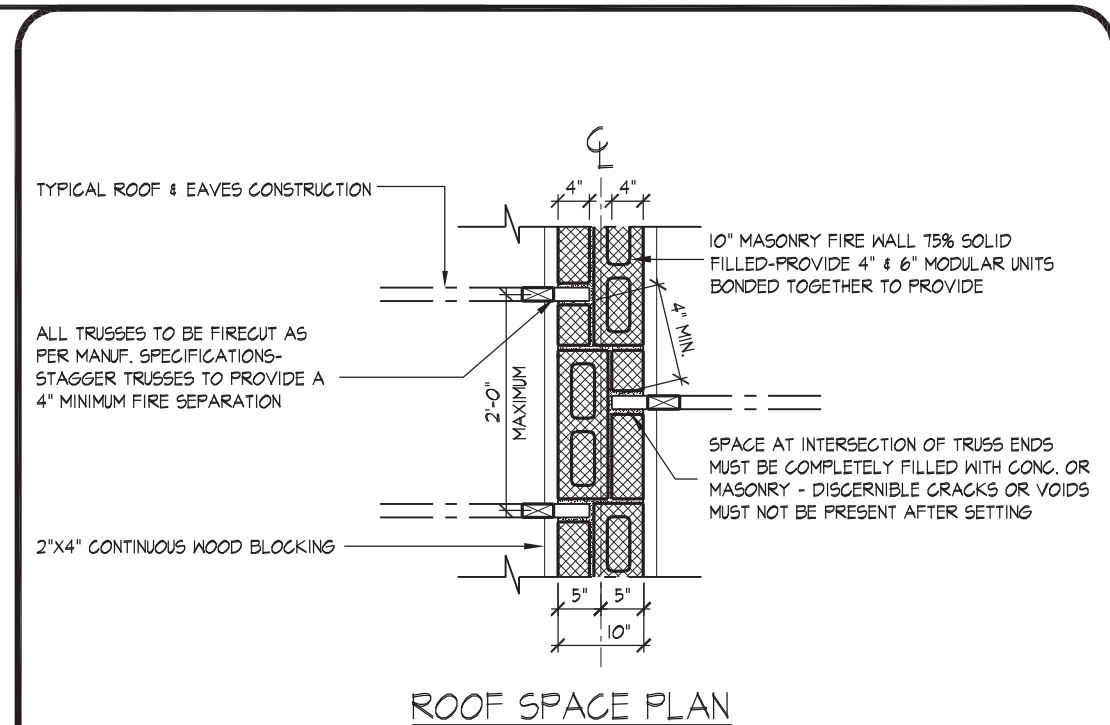
LINE OF BRICK VENEER BEYOND

LINE OF VINYL SIDING BEYOND

2-10M BARS EVERY BLOCK COURSE, MIN. 42" LONG WITH 2" HOOK AT FRONT AND 4" HOOK AT BACK



29 TYPICAL 2 HOUR FIRE WALL BRICK CORBEL SECTION  
1" = 1'-0"



05 TYP. TRUSS FRAMING - ROOF TRUSS AT 10" BLOCK FIREWALL  
1/2" = 1'-0"



## SECTION 1.0. CONSTRUCTION NOTES

- 1 ROOF CONSTRUCTION** (9.19, 9.23.13, 9.23.15)  
NO 210 (1025 KG/M2) ASPHALT SHINGLES, 3/8" (9.5) PLYWOOD SHEATHING WITH #14 CUPS, APPROVED WOOD TRUSSES @ 24" (610) O.C. MAX. APPROVED EAVES PROTECTION TO 1/2" (12.7) O.C. AT BOTTOM COURSE AND 3/8" (9.5) AT 1/2" (12.7) O.C. AT BOTTOM COURSE. PROVIDE 2" (50.8) BEYOND INNER FACE OF EXTERIOR WALL, 2"X4" (38x89) TRUSS BRACING @ 8'-0" (1830) O.C. AT BOTTOM COURSE, PREPIN, ALUM. EAVESTROUGH, FASCIA, RAIL, & VENTED SOFFIT. ATTIC VENTILATION 1:200 OF INSULATED CEILING AREA WITH MIN. 25% OF REQUIRED OPENINGS LOCATED AT TOP OF SPACE & MIN. 25% OF REQUIRED OPENINGS LOCATED AT BOTTOM OF SPACE. EAVESTROUGH TO BE 4" MIN. WITH RAIL DISCHARGING ONTO 2" CONCRETE SPASH BOARD WITH 3/8" (9.5) O.C. EXT. GRADE SHEATHING ON TRUSSES TO HAVE 5" MIN. EAVESTROUGH WITH ELEC. TRACED HEATER CABLE ALONG EAVESTROUGH AND DOWN RAIL.
- 1A ICE AND WATER SHEILD**  
PROVIDE ICE AND WATER SHEILD IN THE AREAS INDICATED. THE ICE AND WATER SHEILD SHALL BE A SELF ADHERING AND SELF SEALING MEMBRANE. SIDE LAPs MUST BE A MINIMUM 3 1/2" (90) AND END LAPs A MINIMUM 6" (152), AND TO EXTEND UP DORMER WALLS A MINIMUM 12" (305).
- 1B PROFILED ROOF TRUSSES**  
ROOF TRUSSES SHALL BE PROFILED AND/OR STEPPED AT RAISED COPPER/TRAY CEILINGS, ANGLED TRAY CEILINGS WILL BE SHEATHED W/ 3/8" (9.5) PLYWOOD.
- 2 SIDING WALL CONSTRUCTION**  
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS. FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON APPROVED SHEATHING PAPER ON 3/8" (9.5) EXT. GRADE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR/VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FIN. (GYPSUM SHEATHING, RIGID INSULATION, AND FIBERBOARD SHALL NOT BE USED FOR THE ATTACHMENT OF SIDING (9.23.16.3,1,1) (REFER TO 35 NOTE AS REQ.).
- 2A SIDING WALL CONSTRUCTION W/ CONTIN. INSULATION**  
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS ON APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.2, ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS ON 3/8" (9.5) EXT. GRADE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR/VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FIN. (GYPSUM SHEATHING, RIGID INSULATION, AND FIBERBOARD SHALL NOT BE USED FOR THE ATTACHMENT OF SIDING (9.23.16.3,1,1) (REFER TO 35 NOTE AS REQ.).
- 2B SIDING WALL @ GARAGE CONSTRUCTION**  
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS. FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON APPROVED SHEATHING PAPER ON 3/8" (9.5) EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE AIR/VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) BEHIND BUILDING PAPER (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED).
- 3 BRICK VENEER WALL CONSTRUCTION**  
3 1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7/8"x3/8" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 24" (610) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.24. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, AND 6 MIL. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) BEHIND BUILDING PAPER (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED).
- 3A BRICK VENEER WALL CONSTRUCTION W/ CONTIN. INSULATION**  
3 1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7/8"x3/8" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 24" (610) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.24. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS, ON 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, AND 6 MIL. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP MIN. 6" (150) OVER RIGID INSULATION (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED).
- 3B BRICK VENEER WALL @ GARAGE CONSTRUCTION**  
3 1/2" (90) BRICK VENEER, MIN. 1" (25) AIR SPACE, 7/8"x7/8"x3/8" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 24" (610) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.24. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, AND 6 MIL. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800) O.C. AT BOTTOM COURSE AND OVER OPENINGS. PROVIDE BASE FLASHING UP (150) MIN. BEHIND BUILDING PAPER (9.20.13.6) (REFER TO 35 NOTE AS REQ.).
- 4 INTERIOR STUD PARTITIONS** (9.23.8, 9.23.10)  
BEARING PARTITIONS SHALL BE A MINIMUM 2"x4" (38x89) @ 16" (406) O.C. FOR 2 STOREY AND 12" (305) O.C. FOR 3 STOREY. NON-BEARING PARTITIONS 2"x4" (38x89) @ 24" (610) O.C. PROVIDED WITH 1/2" (12.7) O.C. TOP & BOTTOM PLATE. PROVIDE 2"x6" (38x140) STUDS WHERE NOTED. PROVIDE 2"x4" (38x89) @ 24" (610) O.C. LADDER FRAMING WHERE WALLS INTERSECT PERPENDICULAR TO ONE ANOTHER. PROVIDE 2"x4" (38x89) WOOD BLOCKING ON PLATE @ 6" (152) O.C. MAX. BETWEEN CORNER JOISTS WHEN NON-LOADBEARING WALLS ARE PARALLEL TO FLOOR JOISTS.
- 4A EXT. LOFT WALL CONSTRUCTION - NO CLADDING**  
3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION AND 6 MIL. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONT. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH, (9.23.1)
- 4B EXT. LOFT WALL CONSTRUCTION - NO CLADDING W/ CONTINUOUS INSULATION**  
APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.2, ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS, ON 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION AND 6 MIL. POLYETHYLENE VAPOUR BARRIER WITH APPROVED CONT. AIR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH, (9.23.1)
- 5 FOUNDATION WALL/FOOTINGS**  
POURED CONC. FOUNDATION WALL AS PER CHART BELOW ON CONTINUOUS KEY CONCRETE FOOTING. FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 8" (150) ABOVE FINISHED GRADE. THE OUTSIDE OF THE FOUNDATION SHALL BE DAMPROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADE AND BRUSH COAT FROM THE TOP TO 2" BELOW GRADE. PROVIDE A DRAINAGE LAYER ON THE OUTSIDE OF THE FOUNDATION WALL. SEAL THE DRAINAGE LAYER AT THE TOP. THE TOP OF THE CONC. FOOTING SHALL BE DAMPROOFED. CONCRETE FOOTINGS SUPPORTING JOIST SPANS GREATER THAN 16'-4" (4900) SHALL BE SIZED IN ACCORDANCE WITH 9.15.3.4.1 (1) OF THE O.B.C. (REFER TO CHART BELOW FOR RESPECTIVE SIZE). BRACE FOUNDATION WALL PRIOR TO BACKFILL. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 75kPa. IF SOIL BEARING DOES NOT MEET MINIMUM CAPACITY, ENGINEERED FOOTINGS ARE REQUIRED. ACTUAL SOIL BEARING CAPACITY TO BE VERIFIED WITH SOIL ENGINEERING REPORT. REFER TO CONSTRUCTION DRAWINGS AND DETAILS FOR FOUNDATION WALL STRENGTH AND THICKNESS AND 9.15.4. FOUNDATION WALLS SHALL NOT EXCEED 9'0" (2700) IN UNSUPPORTED HEIGHT UNLESS OTHERWISE NOTED. (9.15.4.2.1,1)

UNREINFORCED SOIL CONCRETE FOUNDATION WALLS (9.15.4.2.1)	MAX. HEIGHT FROM FIN. SLAB TO GRADE			
	UNSUPPORTED AT TOP	SUPPORTED AT TOP	SUPPORTED AT BOTTOM	SUPPORTED AT TOP
8" (203)	3'-11" (1.20m)	7'-0" (2.15m)	7'-0" (2.15m)	6'-10" (2.10m)
10" (254)	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	8'-2" (2.50m)
12" (305)	4'-11" (1.50m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)
14" (356)	3'-11" (1.20m)	7'-6" (2.30m)	7'-6" (2.30m)	7'-2" (2.20m)
16" (406)	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)
18" (457)	4'-11" (1.50m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)

\*9" MIN. THICK FOUNDATION WALL IS REQUIRED FOR MASONRY VENEER FINISHED EXTERIOR WALLS WITH CONTINUOUS INSULATION CONDITION. TO PROVIDE MIN. BEARING FOR SILL PLATES, BEAMS AND FLOOR JOISTS AS PER 9.23.2.2, 9.23.8.1, & 9.23.9.1, OF THE O.B.C.

NUMBER FLOOR SUPPORTED	MINIMUM STRIP FOOTING SIZES (9.15.3)			
	SUPPORTING 1ST FLOOR BEARING	SUPPORTING 2ND FLOOR BEARING	SUPPORTING 3RD FLOOR BEARING	SUPPORTING 4TH FLOOR BEARING
1	16" wide x 8" THICK	16" wide x 8" THICK	16" wide x 8" THICK	16" wide x 8" THICK
2	24" wide x 8" THICK	20" wide x 8" THICK	24" wide x 8" THICK	24" wide x 8" THICK
3	36" wide x 14" THICK	28" wide x 9" THICK	36" wide x 14" THICK	36" wide x 14" THICK

## REFER TO SB-12 ENERGY EFFICIENCY DESIGN MATRIX ON THE TITLE PAGE FOR ALL VALUES AS REQUIRED PER 3.1.1., 3.1.2., 3.1.3. OF THE OBC.

- 5A FOUNDATION REDUCTION IN THICKNESS FOR MASONRY**  
WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF MASONRY EXTERIOR FACING, THE REDUCED SECTION SHALL BE NOT LESS THAN 9 1/2" (90) THICK. THE BRICK VENEER SHALL BE TIED TO THE FOUNDATION WALL WITH CORROSION RESISTANT METAL TIES @ 7/8" (200) VERTICAL AND 2'-11" (889) HORIZONTAL. FILL VOID WITH MORTAR OR EXTERIOR WALL AND BRICK VENEER. (9.15.4.2.1,1) & 9.23.9.1 (40).
- 5B FOUNDATION REDUCTION IN THICKNESS FOR JOISTS**  
WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF MASONRY EXTERIOR FACING, THE REDUCED SECTION SHALL BE NOT MORE THAN 13 3/4" (350) HIGH & NOT LESS THAN 3 1/2" (90) THICK (9.15.4.2.1,1) & 9.23.9.1 (40).
- 6 WEEDING TIE** (9.14.3)  
4" (100) @ WEEDING TIE W/ FILTER CLOTH W/RAE & 6" (152) CRUSHED STONE COVER
- 7 BASEMENT SLAB OR SLAB ON GRADE** (9.16.4.3)  
3" (80) MIN. 25MPa (3600psi) CONC. SLAB ON 4" (100) COARSE GRANULAR FILL OR 20MPa (2900psi) CONC. WITH DAMPROOFING BELOW SLAB. PROVIDE 1/2" (12.7) IMPERVIOUS BOARD FOR BOND BREAK AT EDGE. (9.13.1) WHERE 1/2" (12.7) BASEMENT SLAB IS WITHIN 24" (610) OF THE EXTERIOR GRADE PROVIDE RIGID INSUL. AROUND THE PERIMETER EXTENDING MIN. 24" (610) BELOW GRADE. FOR SLAB ON GRADE CONDITIONS RIGID INSULATION SHALL BE APPLIED TO THE UNDERSIDE OF THE ENTIRE SLAB. (ISS-12.1.3.1, 1.7.1.5) & (40).
- 8 EXPOSED FLOOR TO EXTERIOR** (9.10.17.10, & CANULC-S705.2)  
PROVIDE SPRAY FOAM INSULATION BETWEEN CANT. JOIST AND INSTALL FIN. SOFFIT OR CLADDING AS PER ELEVATION TO US OF EXPOSED CANT. JOIST.
- 9 EXPOSED CEILING TO EXTERIOR W/ ATTIC** (9.25.2.4)  
INSULATION, 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM BOARD INTERIOR FINISH OR APPROVED EQ.
- 9 EXPOSED CEILING TO EXTERIOR W/O ATTIC**  
JOIST/TRUSSES AS PER PLANS W/ 2"x2" (38x38) PURLINS @ 16" (406) O.C. PERPENDICULAR TO JOISTS (PURLINS NOT REQ. W/ SPRAY FOAM OR ROOF TRUSSES). W/ INSULATION BETWEEN JOIST 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM BOARD INTERIOR FINISH OR APPROVED EQ. (CANULC-S705.2, 9.19.1, 9.10.17.1)
- 10 ALL STAIRS/EXTERIOR STAIRS** (9.8.1.2, 9.8.2, 9.8.4)  
MAX. RISE MIN. RUN MIN. MIN. TREAD MIN. TREND MIN. TREND  
PRIVATE 7/8" (200) 5/16" (125) 9/16" (155) 9/16" (155) 9/16" (155) 9/16" (155)  
PUBLIC 7/8" (200) 5/16" (125) NO LIMIT 1" (25) NO LIMIT 1" (25)  
MIN. STAIR WIDTH CURVED STAIRS ALL STAIRS  
PRIVATE 2'-10" (660) MIN. RUN 5'-7" (150) MAX. NOSING 1" (25)  
PUBLIC 2'-11" (600) MIN. AVG. RUN 7'-8" (200)
- \*\* HEIGHT OVER STAIRS (HEADROOM) IS MEASURED VERTICALLY ACROSS WIDTH OF STAIRS FROM A STRAIGHT LINE TO THE TREAD & LANDING NOSING TO LOWEST POINT ABOVE AND NOT LESS THAN 6'-6" (1980) FOR SINGLE DWELLING UNITS & 6'-8 3/4" (2050) FOR EVERYTHING ELSE. (9.8.2.2)  
REQUIRED LANDING IN GARAGES @ 9.23.7.1  
FOR AN EXTERIOR STAIR SERVING A GARAGE W/ MORE THAN 3 RISERS, GUARDS, HANDRAILS & STEPS AS PER CANULC-HEX NOTE 10 & 11.
- 11 GUARDS/RAILINGS** (9.8.7, 9.8.8)  
GUARDS TO BE DESIGNED NOT TO FACILITATE CLIMBING AND PROVIDING MAX. OPENING CONFORMING TO O.B.C. 9.8.8.5, & 9.8.8.6, & BE ABLE TO RESIST LOADS AS PER TABLE 9.8.8.2.  
GUARD HEIGHTS - O.B.C. 9.8.8  
INTERIOR GUARDS: 2'-11" (600) MIN.  
EXTERIOR GUARDS: 2'-11" (600) MIN. (LESS THAN 5'-11" (1800) TO GRADE) 3'-0" (1070) MIN. (MORE THAN 5'-11" (1800) TO GRADE)  
GUARDS FOR EXIST. STAIRS: 3'-0" (920) MIN.  
GUARDS FOR LANDINGS: 3'-0" (920) MIN.  
GUARDS FOR FLOORS & RAMPS IN GARAGES (SERVICE STAIRS)  
FLOOR OR RAMP W/O EXTERIOR WALLS THAT IS 23 5/8" (600) OR MORE ABOVE ADJACENT SURFACE REQUIRES CONT. CURB MIN. 6" (150) HIGH, AND GUARD MIN. 3'-0" (920) HIGH.  
REQUIRED GUARDS  
BETWEEN WALKING SURFACE & ADJACENT SURFACE WITH A DIFFERENCE IN ELEVATION MORE THAN 23 5/8" (600) OR ADJACENT SURFACE WITHIN 3'-11" (1200) & WALKING SURFACE W/ A SLOPE MORE THAN 1 IN 12 SHALL BE PROTECTED WITH OTHER SUITABLE TYPE OF CONSTRUCTION HEX NOTE 11.  
HANDRAIL HEIGHTS - O.B.C. 9.8.7 - REQUIRED AS PER 9.8.7.1 (3)  
MIN. HEIGHT AT STAIRS OR RAMP: 2'-10" (665)  
MAX. HEIGHT AT STAIRS OR RAMP: 3'-2" (965)  
MAX. HEIGHT AT STAIRS OR RAMP: 3'-2" (965)  
STAIRS OR RAMP MIN. 7'-3" (2200) WIDTH: 2'-9" (865) MIN. HEIGHT  
SILL PLATES  
2"x4" (38x89) SILL PLATE WITH 1/2" (12.7) ANCHOR BOLTS 8" (200) LONG. EMBEDDED MIN. 4" (100) INTO CONC. @ 7'-10" (2380) O.C. CAULKING OR GASKET BETWEEN PLATE AND TOP OF FOUNDATION WALL. USE NON-SHRINK GROUT TO FILL SPACE BETWEEN PLATE AND FOUNDATION WALL. (9.23.7.1)  
BASEMENT INSULATION (ISS-12.1.3.1, 1.7.1.5)  
PROVIDE CONTINUOUS BLANKET INSULATION W/ BUILT IN 6 MIL. POLYETHYLENE VAPOUR BARRIER. INSULATION TO EXTEND NO MORE THAN 6" (200) ABOVE FINISHED BASEMENT FLOOR. DAMPROOFED WITH BUILDING PAPER BETWEEN THE FOUNDATION WALL AND INSULATION UP TO GRADE LEVEL.
- 12 BEARING STUD PARTITION IN BASEMENT** (9.15.3.6, 9.23.10.1)  
2"x4" (38x89) STUDS @ 16" (406) O.C. 2"x4" (38x89) SILL PLATE (2"x6" (38x140) AS REQUIRED) ON DAMPROOFING MATERIAL. 2" (50.8) 6 MIL. POLYETHYLENE FILM, 1/2" (12.7) ANCHOR BOLTS 8" (200) LONG. EMBEDDED 4" (100) MIN. INTO CONC. @ 7'-10" (2380) O.C. 4" (100) HIGH CURB ON CONC. FOOTING. FOR SIZE REFER TO HEX NOTE 5, ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.
- 15 ADJUSTABLE STEEL BASEMENT COLUMN** (9.15.3.4)  
1'0" (3000) MAX. SPAN BETWEEN COLUMNS. 3 1/2" (90) SINGLE TUBE ADJUSTABLE STEEL COLUMN CONFORMING TO CAN/CSA-S24.4M, AND WITH 6"x6"x3/8" (152x152x9.5) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa AS PER SOLS REPORT.  
SUPPORTING 2 STOREY FLR. LOAD PROVIDE 34"x34"x16" (870x870x410) CONC. FOOTING  
SUPPORTING 3 STOREY FLR. LOAD PROVIDE 40"x40"x19" (1060x1060x480) CONC. FOOTING
- 15A NON-ADJUSTABLE STEEL BASEMENT COLUMN**  
3 1/2" (90) 8" x 10" (187 x 254) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x3/8" (152x152x9.5) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa AS PER SOLS REPORT.  
SUPPORTING 2 STOREY FLR. LOAD PROVIDE 42"x42"x19" (1070x1070x480) CONC. FOOTING  
SUPPORTING 3 STOREY FLR. LOAD PROVIDE 48"x48"x24" (1220x1220x610) CONC. FOOTING
- 15B NON-ADJUSTABLE STL. COLUMN AT FOUNDATION WALL**  
3 1/2" (90) 8" x 10" (187 x 254) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x3/8" (152x152x9.5) STEEL PLATE TOP & BOTTOM. FIELD WELD BASEMENT COLUMN CONNECTION. POURED CONCRETE FOOTING ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa AS PER SOLS REPORT.  
SUPPORTING 2 STOREY FLR. LOAD PROVIDE 42"x42"x19" (1070x1070x480) CONC. FOOTING  
SUPPORTING 3 STOREY FLR. LOAD PROVIDE 48"x48"x24" (1220x1220x610) CONC. FOOTING
- 16 STEEL BEAM BEARING AT FOUNDATION WALL** (9.23.8.1)  
BEAM POCKET OR 8"x8" (200x200) POURED CONC. NIB WALLS. MIN. BEARING 3 1/2" (90).
- 17 WOOD STRAPPING AT STEEL BEAMS** (9.23.4.3 (3), 9.23.9.3)  
1"x3" (19x64) CANT. WOOD STRAPPING BOTH SIDES OF STEEL BEAM.
- 18 GARAGE SLAB** (9.16, 9.3.5)  
4" (100) 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT ON OPT. 4" (100) COARSE GRANULAR FILL WITH COMPACTED SUB-BASE OR COMPACTED NATIVE FILL. SLOPE TO FRONT @ 1% MIN.
- 19 GARAGE TO HOUSE WALLS/CEILING** (9.10.9.16)  
1/2" (12.7) GYPSUM BOARD ON WALL AND CEILING BETWEEN HOUSE AND GARAGE, PLUS REQUIRED INSULATION IN WALLS AND SPRAY FOAM FOR CEILINGS, TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.17.10, CANULC-S705.2)
- 19A GARAGE TO HOUSE WALLS/CEILING W/ CONTIN. INSULATION**  
1/2" (12.7) GYPSUM BOARD ON CEILING AND ON WALLS INSTALLED OVER EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS ON 3/8" EXTERIOR GRADE SHEATHING ON STUDS BETWEEN HOUSE AND GARAGE. PLUS REQUIRED INSULATION IN WALLS & SPRAY FOAM FOR CEILINGS. TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.9.16, 9.10.17.10, CANULC-S705.2)
- 20 GARAGE DOOR TO HOUSE FRAME** (9.10.9.16, 9.10.13.10, 9.10.13.15)  
GAS-PROOF DOOR AND FRAME. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHER STRIPPING.

STAMP

## cont. SECTION 1.0. CONSTRUCTION NOTES

- 40 1 HR. PARTY WALL (CONC. BLOCK)** (ISS-3) WALL TYPE 9b6' & 9b10'  
5/8" (15.9) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) O.C. ON 200 CONC. BLOCK FULL STRAPPING CAVITY EACH SIDE WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE, FILL & SAND ALL GYPSUM JOINTS. EXPOSED BLOCK MUST BE SEALED W/ 2 COATS OF PAINT OR FURRED WITH 2"x2" (38x38) WOOD STRAPPING & 1/2" (12.7) GYPSUM SHEATHING.
- 40 1 HR. PARTY WALL (DOUBLE STUD)** (ISS-3) WALL TYPE W130'  
5/8" (15.9) TYPE 'X' GYPSUM SHEATHING ON EXTERIOR SIDE OF 2 ROWS OF 2"x4" (38x89) STUDS. 1/2" (12.7) DENSEGLASS GOLD SPRUCE BOARD ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)
- 40A 2 HR. FIREWALL** (ISS-3) WALL TYPE 9b6' & 9b10'  
1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) O.C. ON 200 CONC. BLOCK 75% SOLID FILL STRAPPING CAVITY EACH SIDE WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE, FILL & SAND ALL GYPSUM JOINTS. AT UNFINISHED AREAS, EXTERIOR FACE OF CONC. BLOCK TO BE SEALED WITH 2 COATS OF PAINT, GYPSUM SHEATHING TO BE ATTACHED TO CONC. BLOCK. (REFER TO DETAILS)
- 41 STUCCO WALL CONSTRUCTION**  
STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28, AND APPLIED PER MANUFACTURER'S SPECIFICATIONS OVER 1 1/2" (38) E.L.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSEGLASS GOLD GYPSUM BOARD ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)
- 41A STUCCO WALL CONSTRUCTION W/ CONTIN. INSULATION**  
STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28, AND APPLIED PER MANUFACTURER'S SPECIFICATIONS OVER 1 1/2" (38) E.L.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.2, ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS, ON 3/8" EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)
- 41B STUCCO WALL @ GARAGE CONST.**  
STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28, AND APPLIED PER MANUFACTURER'S SPECIFICATIONS OVER 1 1/2" (38) E.L.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSEGLASS GOLD GYPSUM BRD. ON STUDS CONFORMING TO O.B.C. (9.23.10.1,1) & SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQ.)  
\*\* FOR DWELLINGS USING CONTIN. INSULATION CONSTRUCTION, PROVIDE APPROVED DRAINAGE MAT ON 7/8" (11) EXTERIOR TYPE SHEATHING OVER FURRING (AS REQ.) AND STUDS IN LIEU OF 1 1/2" (38) E.L.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSEGLASS GOLD GYPSUM BRD.
- 42 UNSUPPORTED FOUNDATION WALLS** (9.15.4.2)  
REINFORCING AT STAIRS AND SUNKEN FLOOR AREAS  
4-20M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING)  
3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING)  
4-20M BARS IN TOP PORTION OF WALL (10'-0" TO 15'-0" OPENING)  
- BARS STACKED VERTICALLY AT INTERIOR FACE OF WALL REINFORCING AT BASEMENTS WINDOWS  
2-15M HORIZ. REINFORCING ON THE INSIDE AND OUTSIDE FACE OF THE FOUNDATION WALL BELOW THE MIN. SILL. EXTEND BARS 24" (610) BEYOND THE OPENING. 2-15M VERTICAL REINFORCING ON THE INSIDE AND OUTSIDE FACE OF THE FOUNDATION WALL ON EACH SIDE OF THE WINDOW OPENING. BARS TO HAVE MIN. 2" (50) CONC. COVER.  
- BARS TO EXTEND 24" (610) BEYOND BOTH SIDES OF OPENING
- 43 STUD WALL REINFORCEMENT**  
PROVIDE STUD WALL REINFORCEMENT IN MAIN BATHROOM CONFORMING TO O.B.C. (9.23.2.1,1) AND 3.8.3.8.(3) (REFER TO DETAILS)
- 44 WINDOW WELLS**  
WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 21 5/8" (550) SHALL BE PROVIDED IN FRONT OF THE WINDOW. EVERY WINDOW WELL SHALL BE DRAINED TO THE FOOTING LEVEL OR OTHER SUITABLE LOCATION. PROVIDE A 4" (100) WEEDING TIE ON A FILTER CLOTH W/RAE AND FILLED WITH CRUSHED STONE. (9.9.1.01.5, 9.14.6.3)
- 45 SLOPED CEILING CONSTRUCTION** (ISS-12.1.3.1, 1.7.1.5, 9.23.4.2)  
2"x12" (38x266) ROOF JOISTS @ 16" (406) O.C. MAX. (UNLESS OTHERWISE NOTED) W/ 2"x2" (38x38) PURLINS @ 16" (406) O.C. PERPENDICULAR TO ROOF JOIST (PURLINS NOT REQ. W/ SPRAY FOAM), W/ INSULATION BETWEEN JOIST, 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH OR APPROVED EQ. INSULATION VALUE DIRECTLY ABOVE THE INNER SURFACE OF EXTERIOR WALLS SHALL NOT BE LESS THAN R20 (3.52 RSI).
- 46 FLAT ROOF/BALCONY CONSTRUCTION**  
WATERPROOFING MEMBRANE (9.26.1.1, 9.26.1.5, 9.26.1.6) FULLY ADHERED TO 5/8" (15.9) T&G EXTERIOR GRADE OR WOOD BLOCK SHEATHING ON 2"x2" (38x38) PURLINS ANGLD TOWARDS SCUPPER @ 2% MINIMUM LAID PERPENDICULAR TO 2"x6" (38x140) FLOOR JOISTS @ 16" (406) O.C. (UNLESS OTHERWISE NOTED). BUILT UP CURB TO BE 4" (100) MIN. ABOVE FINISHED BALCONY FLOOR. CONTINUOUS 1" (25) DRAIN EDGE TO BE PROVIDED ON OUTSIDE FACE OF CURB. SCUPPER DRAIN TO BE LOCATED 24" (610) MIN. AWAY FROM CURB. PREFINISHED ALUMINUM OR PANEL FOR UNDERSIDE OF SOFFIT (9.23.2.3). REMOVE CURB WHERE REQ.
- BALCONY CONDITION**  
SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE. INCLUDE 2"x4" (38x89) PT. DECKING W/ 1/4" (6.4) GAPS LAID FLAT PARALLEL TO JOISTS ON 2"x4" (38x89) PT. SLEEPERS @ 12" (305) O.C. LAID FLAT PERPENDICULAR TO JOISTS
- BALCONY OVER HEATED SPACE CONDITION**  
SEE FLAT ROOF/BALCONY CONSTRUCTION NOTE FOR ASSEMBLY. REFER TO PLANS FOR FLOOR JOIST SIZE & REFER TO HEX NOTE 9 FOR INSULATION AND INTERIOR FINISH
- 47 BARREL WALL CONSTRUCTION**  
CANTILEVERED 2"x4" (38x89) SPACERS LAID FLAT ON 2"x10" (38x239) SPR. #2 ROOF JOIST NAILED TO BUILT-UP 3/4" (19) PLYWOOD HEADER PROFILED FOR BARREL. SPRAY FOAM INSULATION BETWEEN JOISTS W/ GYPSUM BOARD. INTERIOR FIN. (REFER TO DETAILS)



STAMP FOR STRUCTURAL ONLY, NOT INCLUDING PRE-ENGINEERED ROOF OR FLOOR SYSTEMS

## REFER TO SB-12 ENERGY EFFICIENCY DESIGN MATRIX ON THE TITLE PAGE FOR ALL VALUES AS REQUIRED PER 3.1.1., 3.1.2., 3.1.3. OF THE OBC.

## SECTION 1.1. WALL STUDS

- REFER TO THIS CHART FOR STUD SIZE & SPACING AS REQUIRED FOR EXTERIOR WALLS ONLY. REFER TO SITING & GRADING PLAN OF THIS UNIT FOR CONFORMATION OF TOP OF FOUNDATION WALL AND ADDITIONAL INFORMATION.  
- IF STUD WALL HEIGHT EXCEEDS MAX. UNSUPPORTED HEIGHT, WALL NEEDS TO BE REVIEWED AND APPROVED BY ENGINEER.

MIN. STUD SIZE, (in mm)	SIZE & SPACING OF STUDS; OBC REFERENCE - TABLE 9.23.10.1,1					
	SUPPORTED LOADS (EXTERIOR)					
	ROOF W/ OR W/O ATTIC	ROOF W/ OR W/O ATTIC & FLOOR/ATTIC & FLOOR/ATTIC & FLOOR	ROOF W/ OR W/O ATTIC & FLOOR/ATTIC & FLOOR/ATTIC & FLOOR	ROOF W/ OR W/O ATTIC & FLOOR/ATTIC & FLOOR/ATTIC & FLOOR	ROOF W/ OR W/O ATTIC & FLOOR/ATTIC & FLOOR/ATTIC & FLOOR	ROOF W/ OR W/O ATTIC & FLOOR/ATTIC & FLOOR/ATTIC & FLOOR
	MAX. STUD SPACING, (in mm) O.C.					
2"x4" (38x89)	24" (610)	16" (406)	12" (305)	N/A	N/A	N/A
2"x6" (38x140)	9'-10" (3.0)	9'-10" (3.0)	9'-10" (3.0)	N/A	N/A	N/A
2"x6" (38x140)	-	24" (610)	16" (406)	12" (305)	5'-11" (1.8)	5'-11" (1.8)