



ELEVATION 'A'

ELEVATION 'B'

UNIT 2004 - 'THE SUN FLOWER'

SB-12 ENERGY EFFICIENCY DESIGN MATRIX

PERFORMANCE COMPLIANCE

SPACE HEATING FUEL	
<input checked="" 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	PROPOSED
INSULATION RSI (R) VALUE	
CEILING W/ ATTIC SPACE	10.56 (R60)
CEILING W/O ATTIC SPACE	5.46 (R31)
EXPOSED FLOOR	5.46 (R31)
WALLS ABOVE GRADE	3.87 (R22) + 1.5ci
BASEMENT WALLS	R20 Blanket or R12+R10ci
BELOW GRADE SLAB ENTIRE SURFACE > 600mm BELOW GRADE	-
EDGE OF BELOW GRADE SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
HEATED SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
CONC. SLAB ≤ 600mm BELOW GRADE	1.76 (R10)
WINDOWS & DOORS	
WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE or MIN. ER)	1.6
SKYLIGHTS (MAX. U-VALUE)	2.8
APPLIANCE EFFICIENCY	
SPACE HEATING EQUIP. (AFUE%)	Combo 95% AFUE GLOW C140
HRV EFFICIENCY (%)	75%
DOMESTIC HOT WATER HEATER (EF)	0.84
DWHR UNIT (%)	53.3% ON 1 SHOWERS MIN.

AREA CALCULATIONS		EL. 'A'	EL. 'B'
	STD. PLAN	STD. PLAN	
GROUND FLOOR AREA	981 sq. ft.	981 sq. ft.	
SECOND FLOOR AREA	982 sq. ft.	982 sq. ft.	
SUBTOTAL	1963 sq. ft.	1963 sq. ft.	
DEDUCT ALL OPEN AREAS	14 sq. ft.	14 sq. ft.	
TOTAL NET AREA	1949 sq. ft. (181.07 sq. m.)	1949 sq. ft. (181.07 sq. m.)	
FINISHED BASEMENT AREA	650 sq. ft.	650 sq. ft.	
COVERAGE W/OUT PORCH	1358 sq. ft. (126.16 sq. m.)	1358 sq. ft. (126.16 sq. m.)	
COVERAGE W/ PORCH	1419 sq. ft. (131.83 sq. m.)	1419 sq. ft. (131.83 sq. m.)	
WINDOW / WALL AREA CALCULATIONS		EL. 'A'	EL. 'B'
	STD./OPT. PLAN	SIDE DOOR	STD./OPT. PLAN
GROSS WALL AREA	2981 sq. ft. (276.94 sq. m.)	2981 sq. ft. (276.94 sq. m.)	2984 sq. ft. (277.22 sq. m.)
GROSS WINDOW AREA (INCL. GLASS DOORS & SKYLIGHTS)	270 sq. ft. (25.08 sq. m.)	290 sq. ft. (26.94 sq. m.)	276 sq. ft. (25.64 sq. m.)
TOTAL WINDOW %	9.06 %	9.73 %	9.25 %
			9.95 %

- 1 - TITLE PAGE
- 2 - BASEMENT PLAN, ELEV. 'A'
- 3 - GROUND FLOOR & SECOND FLOOR PLAN, ELEV. 'A'
- 4 - PARTIAL FLOOR PLANS, ELEV. 'B'
- 5 - FRONT & REAR ELEVATION 'A'
- 6 - LEFT SIDE ELEVATION 'A'
- 7 - FRONT & REAR ELEVATION 'B'
- 8 - LEFT SIDE ELEVATION 'B'
- 9 - CROSS SECTION 'A-A', 'B-B', 'C-C' & 'E-E'
- 10 - CONSTRUCTION NOTES

8. REVISED PLAN W/ SERVICE STAIR & CLIENTS' COMMENTS	2023/12/01	TT
7. ISSUED FOR PERMIT	-	-
6. ISSUED FOR FINAL APPROVAL	2023/01/13	MM
5. REVISED AS PER ARCHITECTURAL CONTROL COMMENTS	-	-
4. REVISED AS PER ENGINEER COMMENTS	2023/01/04	MM
3. REVISED AS PER FLOOR & ROOF MANUFACTURE PLANS	2022/06/15	MM
2. REVISED AS PER CLIENT'S COMMENTS	2021/09/28	DSI
1. ISSUED FOR CLIENT REVIEW	2021/07/27	BB
REVISIONS	DATE (YYYYMMDD)	BY



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 37308

NAME SIGNATURE BCIN

REGISTRATION INFORMATION

HUNT DESIGN ASSOCIATES INC. 19695

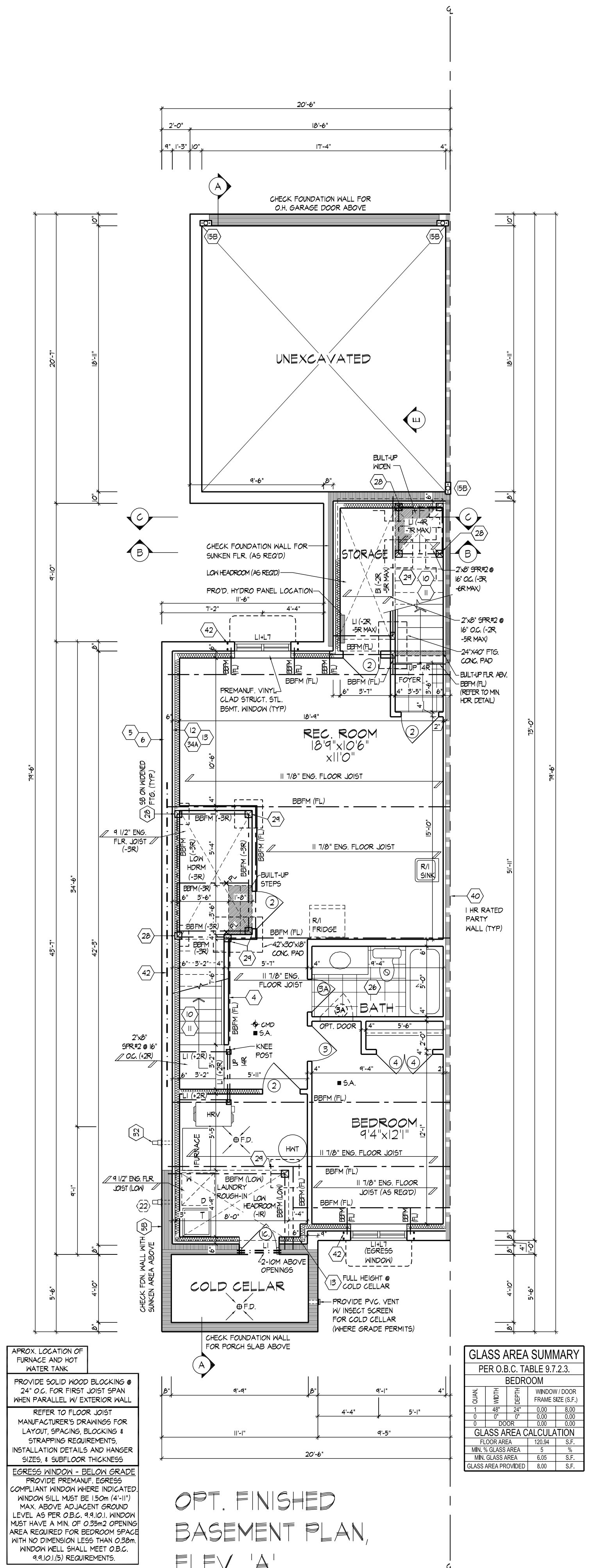
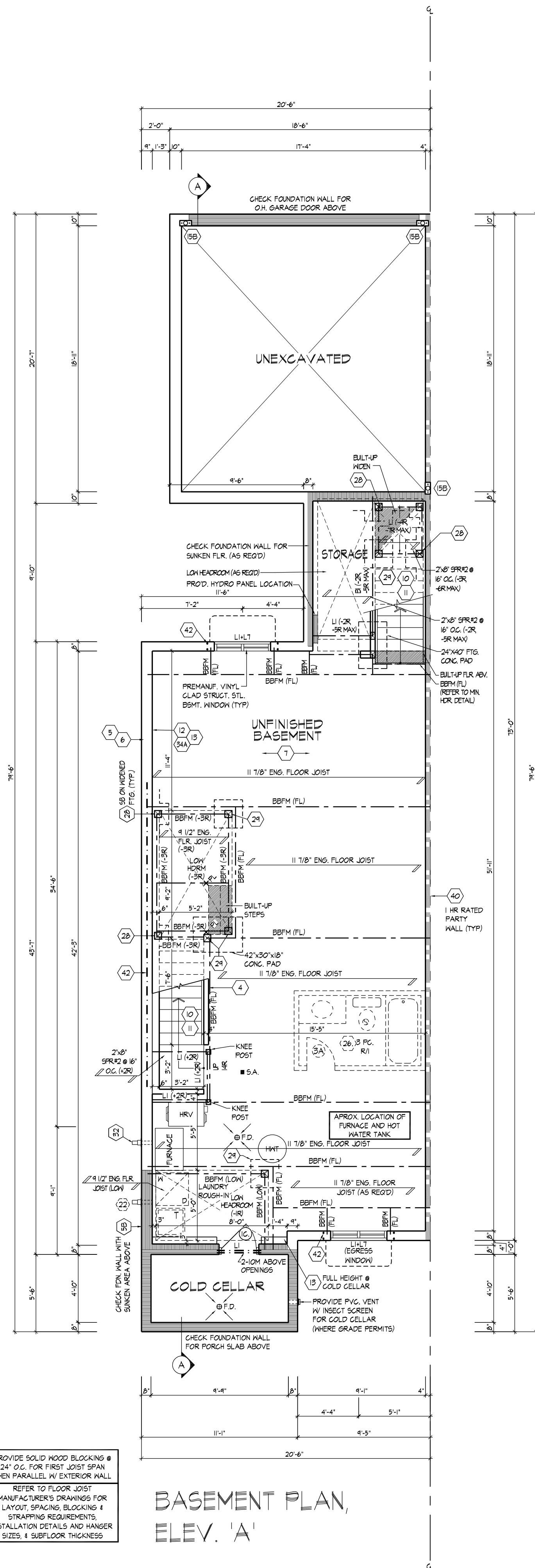


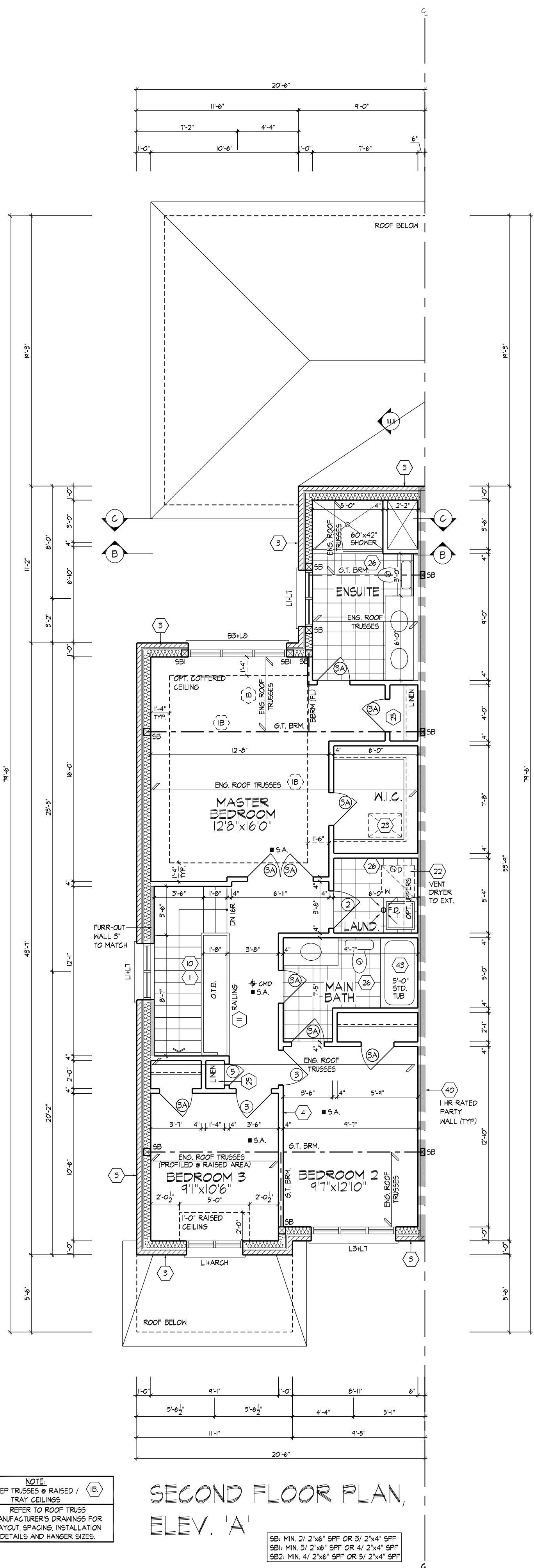
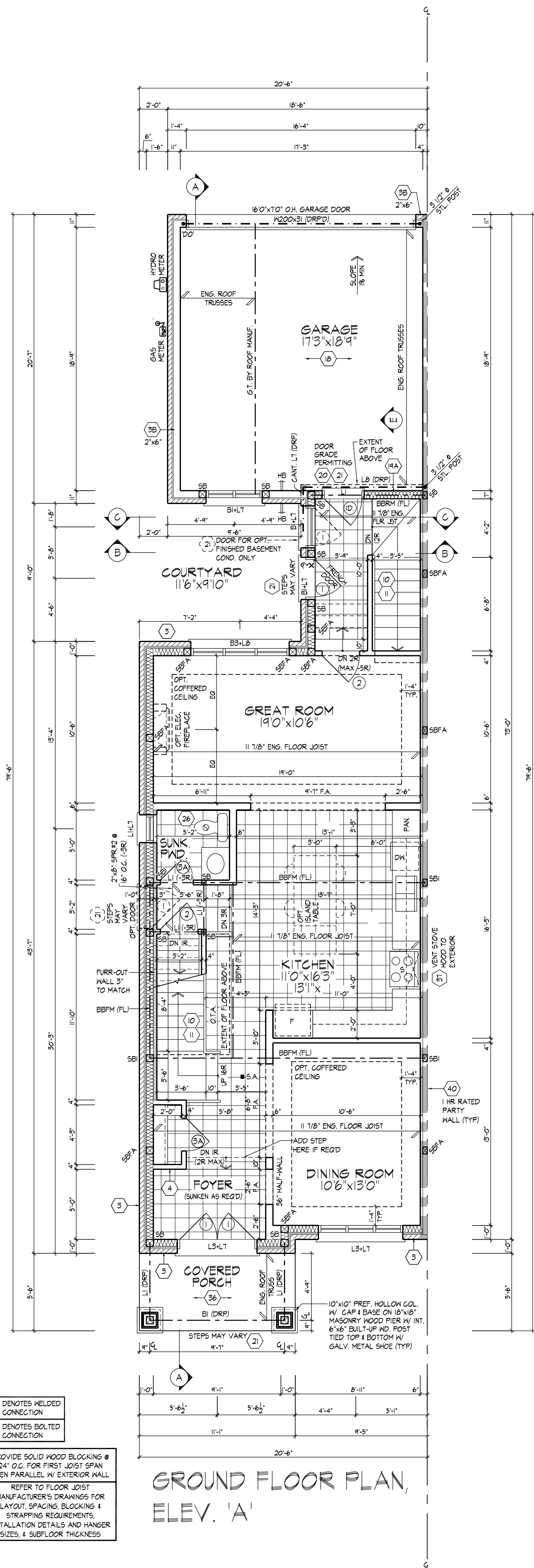
Royal Pine Homes/Summer Ridge Estates Inc.-216051 UNIT 2004 "MAYFIELD VILLAGE", BRAMPTON, ON. REV.2024.02.07

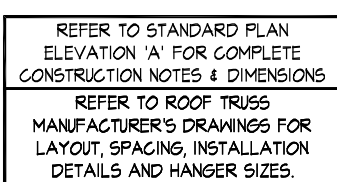
Down By BB/TT Checked By DS Scale 3/16"=1'-0" File Number 216051WT2004 Page Number 1 of 10

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

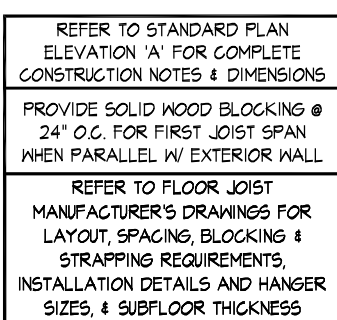
All drawings specifications related documents and design are the copyright property of Hunt Design Associates (H.D.A.). Reproduction of this property in whole or in part is strictly prohibited without H.D.A.'s written permission (H.D.A. assumes no responsibility or liability for this property unless it bears the appropriate BCIN number and original signature.)



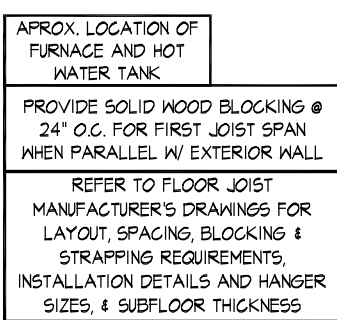




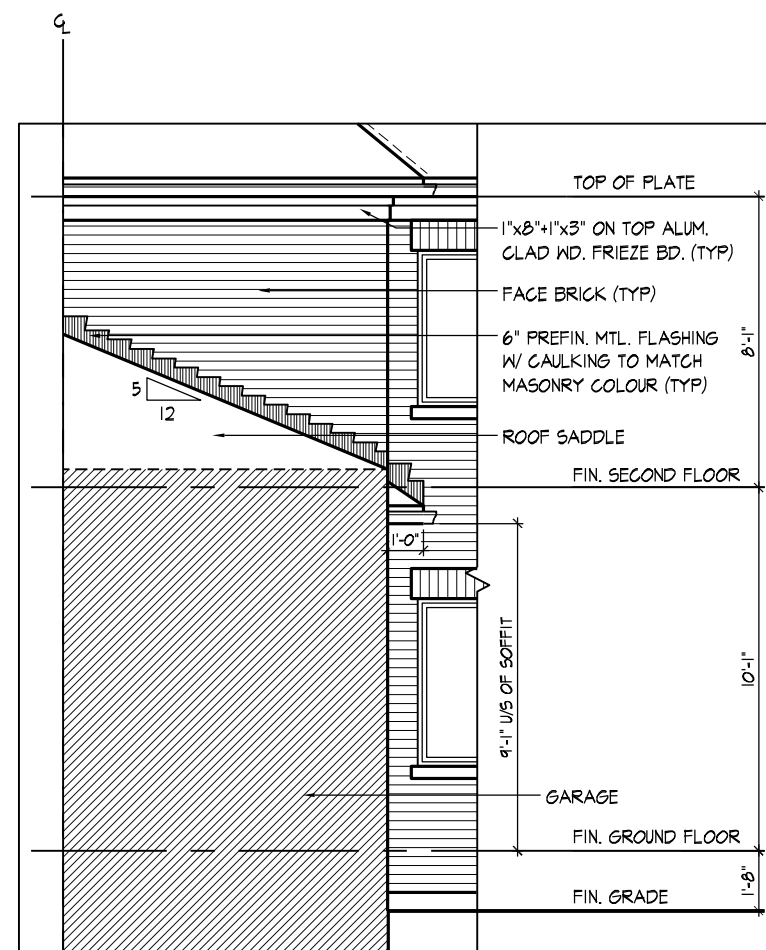
PART SECOND FLOOR  
PLAN, ELEV. 'B'  
(OPT. SECOND FLOOR PLAN,  
ELEV. 'B' SIMILAR)



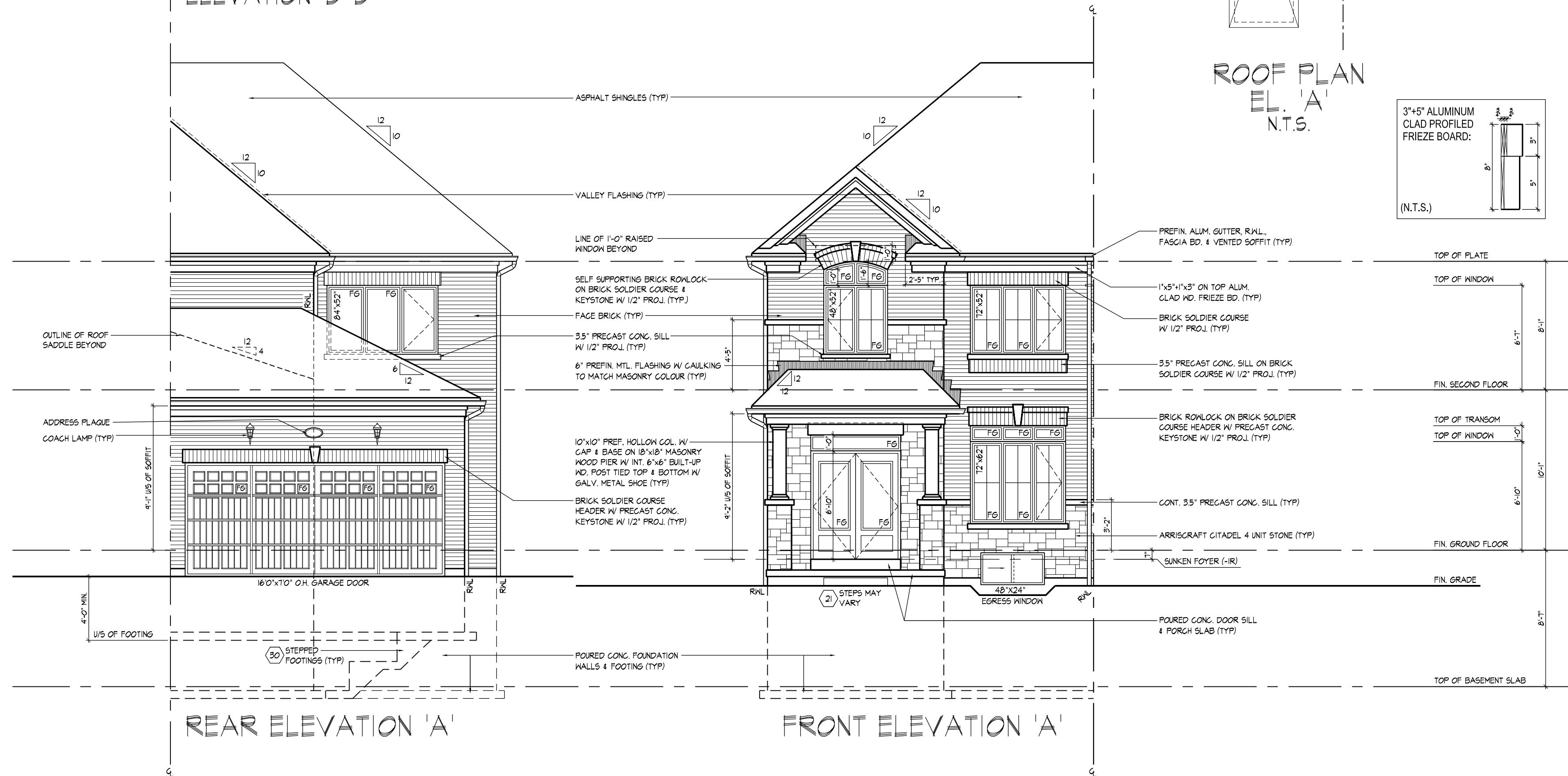
PART. GROUND FLOOR  
PLAN, ELEV. 'B'



SB: MIN. 2/ 2"x6" SPF OR 3/ 2"x4" SPF  
SBI: MIN. 3/ 2"x6" SPF OR 4/ 2"x4" SPF  
SB2: MIN. 4/ 2"x6" SPF OR 5/ 2"x4" SPF



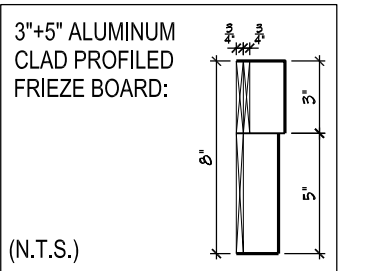
PART. REAR GARAGE  
ELEVATION 'D-D'



REFER TO FRONT ELEVATION FOR  
TYPICAL NOTES & INFORMATION

ROOF OVERHANGS TO BE 12"  
UNLESS NOTED OTHERWISE

ROOF PLAN  
EL. 'A'  
N.T.S.



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.

NAME: Derek R. Santos  
REGISTRATION INFORMATION: BCIN  
HUNT DESIGN ASSOCIATES INC. 19695

37308

BCIN

19695



FRONT & REAR ELEVATION 'A'  
Royal Pine Homes/Summer Ridge Estates Inc.-216051 UNIT 2004  
"MAYFIELD VILLAGE", BRAMPTON, ON. REV.2024.02.07

Drawn By: BB/TT  
Checked By: DS  
Scale: 3/16"=1'-0"  
File Number: 216051WT2004  
Page Number: 5 of 10

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

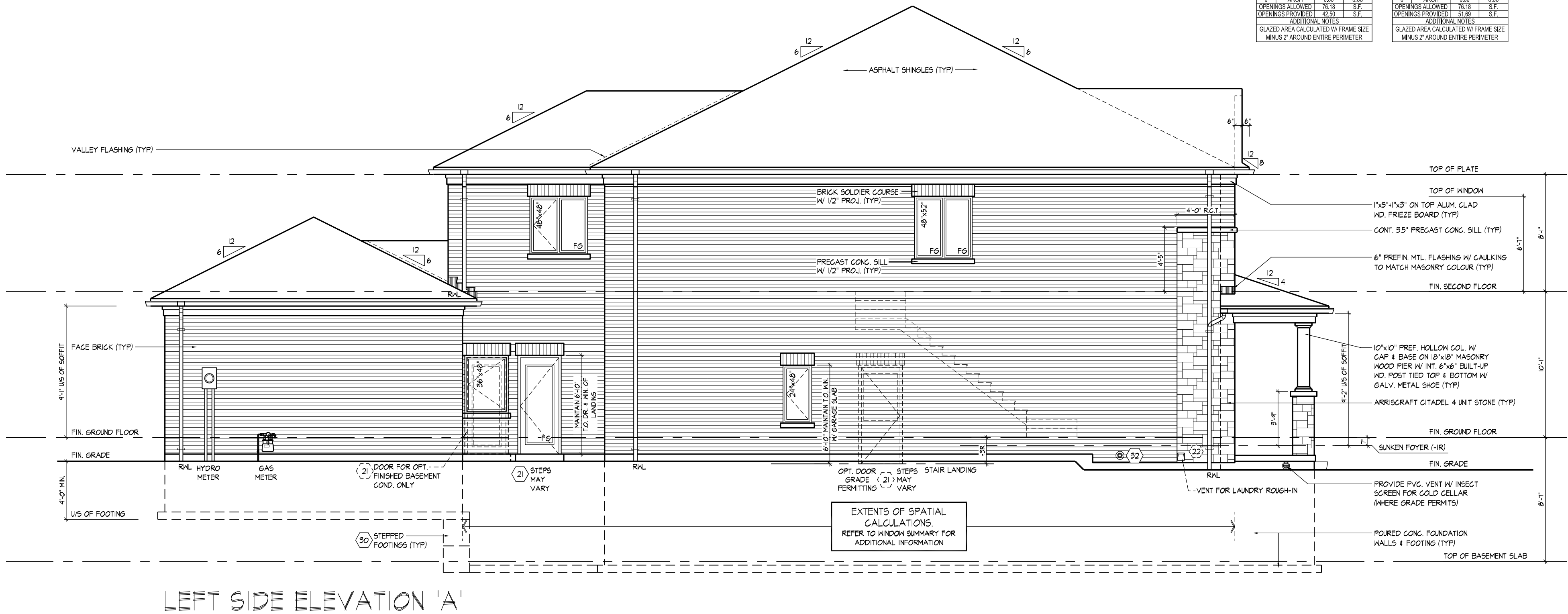
All drawings specifications related documents and design are the copyright property of Hunt Design Associates (H.D.A.). Reproduction of this property in whole or in part is strictly prohibited without H.D.A.'s written permission (H.D.A. assumes no responsibility or liability for this property unless it bears the appropriate BCIN number and original signature).

REFER TO FRONT ELEVATION FOR  
TYPICAL NOTES & INFORMATION

ROOF OVERHANGS TO BE 12"  
UNLESS NOTED OTHERWISE

SPATIAL CALCULATION				
PER O.B.C. TABLE 9.10.15.4				
LEFT SIDE ELEVATION 'A'				
EXPOSING BUILDING	1088.33	S.F.		
FACE AREA	101.11	S.M.		
PORTION WALL AREA	1088.33	S.F.		
	101.11	S.M.		
LIMITING DISTANCE 1.2 m				
MAX. % OPENINGS	7	%		
QUANTITY	DEPTH	WINDOW / DOOR	FRAME SIZE (S.F.)	
1	48"	52"	WINDOW	14.67
1	48"	48"	WINDOW	13.44
0	0"	0"	TRANSOM	0.00
2	24"	48"	WINDOW	12.22
0	24"	56"	WINDOW	0.00
1	30"	16"	BSMT	2.17
0	0"	0"		0.00
0	0"	0"		0.00
0	0"	0"		0.00
0	0"	0"		0.00
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
OPENINGS ALLOWED 76.18 S.F.				
OPENINGS PROVIDED 42.50 S.F.				
ADDITIONAL NOTES				
GLAZED AREA CALCULATED W/ FRAME SIZE MINUS 2" AROUND ENTIRE PERIMETER				

SPATIAL CALCULATION				
PER O.B.C. TABLE 9.10.15.4				
LEFT SIDE ELEVATION 'A'				
EXPOSING BUILDING	1088.33	S.F.		
FACE AREA	101.11	S.M.		
PORTION WALL AREA	1088.33	S.F.		
	101.11	S.M.		
LIMITING DISTANCE 1.2 m				
MAX. % OPENINGS	7	%		
QUANTITY	DEPTH	WINDOW / DOOR	FRAME SIZE (S.F.)	
1	48"	52"	WINDOW	14.67
1	48"	48"	WINDOW	13.44
0	0"	0"	TRANSOM	0.00
2	24"	48"	WINDOW	12.22
0	0"	0"	WINDOW	0.00
1	30"	16"	BSMT	2.17
0	0"	0"		0.00
0	0"	0"		0.00
0	0"	0"		0.00
1	DOOR	9.19		9.19
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
0	ARCH	0.00		0.00
OPENINGS ALLOWED 76.18 S.F.				
OPENINGS PROVIDED 51.89 S.F.				
ADDITIONAL NOTES				
GLAZED AREA CALCULATED W/ FRAME SIZE MINUS 2" AROUND ENTIRE PERIMETER				



LEFT SIDE ELEVATION 'A'

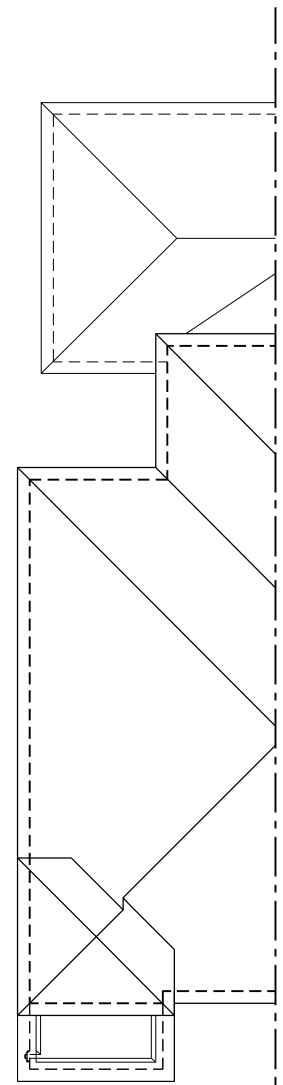
THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS  
DESIGN AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET  
OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER.

QUALIFICATION INFORMATION  
Derek R. Santos 37308  
NAME  
REGISTRATION INFORMATION BCIN  
HUNT DESIGN ASSOCIATES INC. 19695

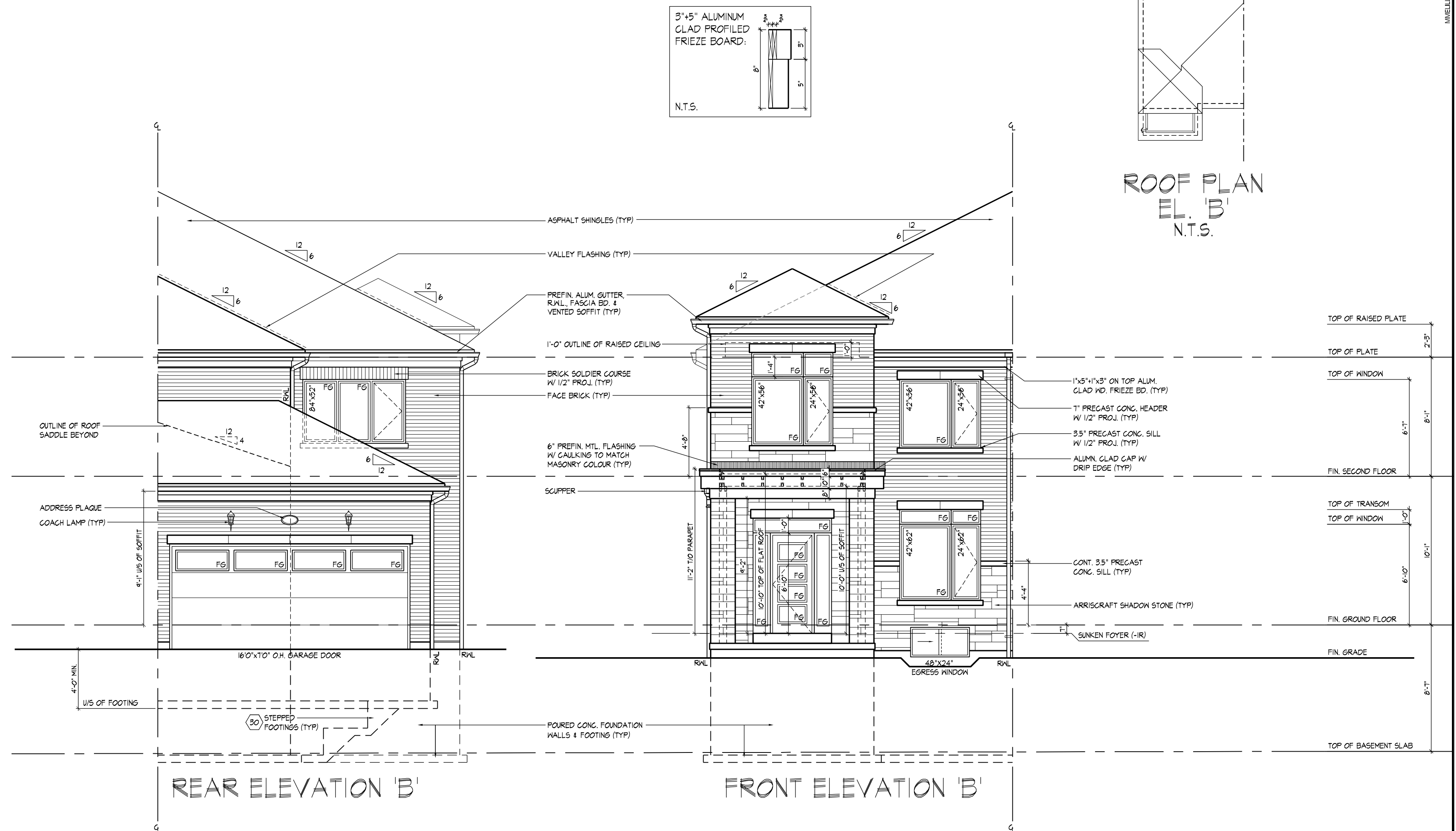
**HUNT**  
DESIGN ASSOCIATES INC.  
www.hunt-design.ca

**LEFT SIDE ELEVATION 'A'**  
Royal Pine Homes/Summer Ridge Estates Inc.-216051 UNIT 2004  
"MAYFIELD VILLAGE", BRAMPTON, ON. REV.2024.02.07  
Down By Scale File Number Page Number  
BB/TT DS 3/16"=1'-0" 216051WT2004 6 of 10  
8966 Woodbine Ave, Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7326

All drawings specifications related documents and design are the copyright property of Hunt Design Associates (H.D.A.). Reproduction of this property in whole or in part is strictly prohibited without H.D.A.'s written permission. H.D.A. assumes no responsibility or liability for this property unless it bears the appropriate BCIN number and original signature.



ROOF PLAN  
EL. 'B'  
N.T.S.



ROOF OVERHANGS TO BE 12"  
UNLESS NOTED OTHERWISE

SPATIAL CALCULATION					
PER O.C.B. TABLE NO.10-15.4					
LEFT SIDE ELEVATION 'B'					
OPT. DOOR					
EXPOSING BUILDING FACE AREA		1089.33	S.F.		
PORTAL WALL AREA		1089.33	S.F.		
LIMITING DISTANCE MAX. SP. OPENINGS		7	12 m		
QUAN.	UNIT	F	TRANSOM	WINDOW / DOOR FRAME SIZE (S.F.)	
0	48"	52"	TRANSOM	14.87	
0	0"	0"	TRANSOM	0.00	14.87
2	24"	48"	TRANSOM	12.22	
0	0"	0"	BSTMT	2.17	
0	0"	0"		0.00	
0	0"	0"		0.00	
0	0"	0"		0.00	
0	DOOR	5'10"		9.19	
0	ARCH	0.00		0.00	
0	ARCH	0.00		0.00	
0	ARCH	0.00		0.00	
OPENINGS PROVIDED		75.18	S.F.		
OPENINGS PROVIDED		51.69	S.F.		
ADDITIONAL NOTES:					
GLAZED AREA CALCULATED W/ FRAME SIZE					
MINUS 2" AROUND ENTIRE PERIMETER					



For drawings, specimens, related documents and details see the copy

only in whole or in part is solely promoted through

REV.2024.02.07

8 01 10

(and original signature)

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 105–112

All rights are reserved and no warranty is made about the copyright property or the copyright in connection (here is representation of the property) in whole or in part to any and persons named herein. No person named herein is assumed to be responsible for the property unless it bears the appropriate copyright notice and original signature.



**Royal Pine Homes/Summer Ridge Estates Inc.-216051 UNIT 2004**  
"MAYFIELD VILLAGE", BRAMPTON, ON. REV.2024.02.07

REV.2024.02.07

QUALIFICATION INFORMATION		
Derek R. Santos		37308
NAME	SIGNATURE	BOARD

REGISTRATION INFORMATION	
UNIT DESIGN ASSOCIATES INC.	10695

All drawings specifications related documents and design are the copyright



**HUNT**  
REGION ASSOCIATES INC.

DESIGN ASSOCIATES INC.  
www.designassociates.ca

property in whole or in part is strictly prohibited without

Drawn By	Checked By	Scale	File Number	Page Number
BBB	BBB	2' = 1"	210051A-10001	10

BB/11 DS 3/16=1:0 216051W12004 9 of 10

8966 Woodbine Ave., Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7526

---

written permission (H.D.A. assumes no responsibility or liability for this property unless it bears the appropriate BCIN number and original signature.)

## SECTION 1.0. CONSTRUCTION NOTES

- 1 ROOF CONSTRUCTION** (9.19, 9.23.1.3, 9.23.1.5)  
NO. 210 (10.25 KG/M2) ASPHALT SHINGLES. 3R (9.5) PLYWOOD SHEATHING WITH 1" CLIPS. APPROVED WOOD TRUSSES @ 24" (610) O.C. MAX. APPROVED EAVES PROTECTION TO EXTEND 2'-11" (800) TO FACE OF ROOF AND 1'-2" (30) MIN. 12" (305) BEYOND INNER FACE OF EXTERIOR WALL. 2"x4" (50x89) TRUSS BRACING @ 6'-0" (1830) O.C. AT BOTTOM CHORD. PREFIN. ALUM. EAVESTROUGH, FASCIA, RVL, & VENTED SOFFIT. ATTIC VENTILATION 1:300 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 RVL. DISCHARGING ONTO CONCRETE SPLASH POUNDING AREA WITH MIN. 25% OF REQUIRED OPENINGS TO HAVE 5" MIN. EAVESTROUGH WITH ELEC. TRACED HEATER CABLE ALONG EAVESTROUGH AND DOWN RVL.
- 1A ICE AND WATER SHIELD**  
PROVIDE ICE AND WATER SHIELD IN THE AREAS INDICATED. THE ICE AND WATER SHIELD SHALL BE A SELF-ADHERING AND SELF-SEALING MEMBRANE. SLAP SIPS MUST BE A MINIMUM 3/16" (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 COFFER/TRAY CELINGS, ANGLED TRAY CELINGS WILL BE SHEATHED W/ 3/8" (9.5) PLYWOOD.
- 2 SIDING WALL CONSTRUCTION (2"x6")**  
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, ON 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 (2"x6") W/ CONTIN. INSULATION**  
SIDING MATERIAL AS PER ELEVATION ATTACHED TO FURRING MEMBERS ON APPROVED AIR/VAPOUR BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED), MECHANICALLY FASTENED AS PER MANUFACTURERS 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, ON 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, 1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. 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.)
- 3 BRICK VENEER WALL CONSTRUCTION (2"x6")**  
3/12" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7/8"x3" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 2"x4" (60) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.23.9. 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. 8" (150) BEHIND BUILDING PAPER (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED)
- 3A BRICK VENEER WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION**  
3/12" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7/8"x3" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 2"x4" (60) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.23.9. 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. 8" (150) OVER RIGID INSULATION (9.20.13.6) (REFER TO 35 NOTE AS REQUIRED)
- 3B BRICK VENEER WALL @ GARAGE CONSTRUCTION**  
3/12" (90) BRICK VENEER, MIN. 1" (25) AIR SPACE, 7/8"x7/8"x3" (22x180x76) GALV. METAL TIES @ 16" (406) O.C. HORIZ. 2"x4" (60) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.23.9. 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, 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 6" (150) MIN. BEHIND BUILDING PAPER (9.20.13.6) (REFER TO 35 NOTE AS REQ.)
- 4 INTERIOR STUD PARTITIONS** (9.23.9.8, 9.23.10)  
BEARING PARTITIONS SHALL BE A MINIMUM 2"x4" (38x89) @ 16" (406) O.C. FOR 2 STORY AND 1/2" (305) O.C. FOR 3 STORY. NON-BEARING PARTITIONS 2"x4" (38x89) @ 16" (406) O.C. FOR 2 STORY AND 1/2" (305) O.C. FOR 3 STORY. TOP OF PARTITION SHALL BE 1/2" (12.7) MIN. DRYWALL, BOTH SIDES OF STUDS. 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 FLAT @ 3'-11" (1194) O.C. MAX. BETWEEN FLOOR JOISTS WHEN NON-LOADBEARING WALLS ARE ADJACENT TO FLOOR JOISTS.
- 4A EXT. LOFT WALL CONSTRUCTION (2"x6") - 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 (2"x6")**  
APPROVED AIR/VAPOUR BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED), MECHANICALLY FASTENED AS PER MANUFACTURERS 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 REINFORCED 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 2" BELOW GRADE. PROVIDE A DRAINAGE LAYER ON THE OUTSIDE OF THE FOUNDATION WALL. SEAL THE DRAINAGE LAYER AT 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) (2) OF THE O.B.C. (REFER TO CHART BELOW FOR RESPECTIVE SIZE). BRACE FOUNDATION WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OF 75kPa OR COMPACTED ENGINEERED FILL WITH MIN. BEARING CAPACITY OF 150kPa. 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'-10" (3.0m) IN UNSUPPORTED HEIGHT UNLESS OTHERWISE NOTED. (9.15.4.2.1.1)

HEIGHT THICKNESS	UNSUPPORTED AT TOP	MAX. HEIGHT FROM FIN. SLAB TO GRADE			
		2'-5m	2'-5m & 2'-75m	2'-75m & 3'-0m	3'-0m & 3'-10m
15 MPa	8" 3'-11" (1.20m)	7'-4" (2.15m)	7'-4" (2.15m)	6'-10" (2.10m)	
10"	4'-7" (1.40m)	7'-4" (2.15m)	8'-6" (2.60m)	8'-2" (2.50m)	
12"	4'-11" (1.50m)	7'-4" (2.15m)	8'-6" (2.60m)	9'-3" (2.85m)	
20 MPa	8" 3'-11" (1.20m)	7'-4" (2.15m)	7'-4" (2.15m)	7'-2" (2.20m)	
10"	4'-7" (1.40m)	7'-4" (2.15m)	8'-6" (2.60m)	9'-3" (2.85m)	
12"	4'-11" (1.50m)	7'-4" (2.15m)	8'-6" (2.60m)	9'-3" (2.85m)	

NUMBER FLOORS SUPPORTED	SUPPORTING INT. LOAD BEARING	SUPPORTING EXTERIOR	SUPPORTING PARTIAL WALL
1	16" WIDE x 8" THICK	16" WIDE x 6" THICK	16" WIDE x 6" THICK
2	24" WIDE x 8" THICK	20" WIDE x 6" THICK	24" WIDE x 8" THICK
3	36" WIDE x 14" THICK	26" WIDE x 9" 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 FINISHING. THE REDUCED SECTION SHALL BE NOT LESS THAN 3/16" (90) THICK. THE BRICK VENEER SHALL BE TO THE FOUNDATION WALL WITH CORROSION RESISTANT METAL TIES @ 7/8" (200) VERTICAL AND 2'-11" (889) HORIZONTAL. FILL VOID WITH MORTAR BETWEEN WALL AND BRICK VENEER. (9.15.4.2.1.1) (9.23.9.8)
- 5B FOUNDATION REDUCTION IN THICKNESS FOR JOISTS**  
WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF JOIST OR JOISTS. THE REDUCED SECTION SHALL BE NOT MORE THAN 13/34" (305) HIGH AND NOT LESS THAN 3/16" (90) THICK (9.15.4.2.1.1)
- 6 WEEPING TIE** (9.14.3.3)  
4" (100) @ WEEPING TIE W/ FILTER CLOTH WRAP & 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 DOND BREAK AT EDGE. WHERE A BASEMENT SLAB IS WITHIN 24" (610) OF THE EXTERIOR GRADE PROVIDE RIGID INSUL. AROUND THE PERMETER EXTENDING MIN. 24" (610) BELOW GRADE. FOR SLAB ON GRADE CONDITIONS RIGID INSULATION SHALL BE APPLIED TO THE UNDERSIDE OF THE ENTIRE SLAB. (9.15.4.2.1.1) (9.17.6) (9.18)
- 8 EXPOSED FLOOR TO EXTERIOR** (9.10.17.10, 1) & CANULUS-S705.2)  
PROVIDE SPRAY FOAM INSULATION BETWEEN CONT. JOIST AND INSTALL OBS. CONFORMING TO 9.29.9. FIN. SOFT OR CLADDING AS PER ELEVATION TO VIS OF EXPOSED CONT. 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**  
JOISTS/TRUSSES AS PER PLANS W/ 2"x2" (38x38) PURLINS @ 16" (406) O.C. PERPENDICULAR TO JOISTS. PURLINS NOT REQ. W/ SPRAY FOAM OR TRUSS TRUSSES. W/ INSULATION BETWEEN JOIST & 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.)
- 10 ALL STAIRS/EXTERIOR STAIRS** (9.8.1.2, 9.8.2, 9.8.4.1)  
MAX. RISE MIN. RISE MAX. RUN MIN. RUN ALL STAIRS  
PRIVATE 7/16" (200) 5" (125) 14" (350) 10" (250)  
PUBLIC 7/16" (200) 5" (125) NO LIMIT 11" (280)  
MAX. NOSING 1" (25)  
MIN. STAIR WIDTH TAPERED TREADS  
PRIVATE 2'-10" (860) MIN. RUN 5'7" (170) MIN. RUN 5'7" (170)  
PUBLIC 2'-11" (890) MIN. RUN 5'7" (170) MIN. RUN 5'7" (170)  
MIN. AVG. RUN 11" (280)
- AVERAGE RUN OF TAPERED TREAD MEASURED AT A POINT 300mm FROM THE CENTERLINE OF INSIDE OF STAIRS (9.8.4.3.1)  
\*\* 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'-8" (195) FOR SINGLE DWELLING UNIT & 6'-4" (195) FOR EVERYTHING ELSE. (9.8.2.2.2)  
REQUIRED LANDING IN GARAGE - O.B.C. 9.8.2.6.2.3)  
FOR AN EXTERIOR STAIR SERVING A GARAGE, W/ MORE THAN 3 RISERS, GUARDS, HANDRAILS & STEPS AS PER CONSTRUCTION HEX NOTE 10 & 11.
- 11 GUARDS/HANDRAILS** (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. AND BE ABLE TO RESIST LOADS AS PER TABLE 9.8.8.2  
GUARD HEIGHTS - O.B.C. 9.8.8.  
INTERIOR GUARDS: 2'-11" (900) MIN. (LESS THAN 5'-11" (1800) TO GRADE) EXTERIOR GUARDS: 3'-6" (1070) MIN. (MORE THAN 5'-11" (1800) TO GRADE)  
GUARDS FOR EXIT STAIRS: 3'-6" (1070) MIN.  
GUARDS FOR LANDING @ EXIT STAIRS: 3'-6" (1070) MIN.  
GUARDS FOR FLOORS & RAMPS IN GARAGES (SERVICE STAIRS) FLOOR OR RAMP W/ EXTERIOR WALLS THAT IS 23 5/8" (600) OR MORE ABOVE ADJACENT SURFACE REQUIRES CONT. CURB MIN. 5/16" (104) HIGH, AND GUARD MIN. 3'-6" (1070) 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) S WALKING SURFACE W/ A DIFFERENCE NOT MORE THAN 1 IN 12 SHALL BE PROTECTED HANDRAIL HEIGHTS - O.B.C. 9.8.7 - REQUIRED AS PER 9.8.7.1.3)  
MIN. HEIGHT AT STAIRS, RAMPS AND LANDINGS: 2'-10" (685) MAX. HEIGHT AT STAIRS, RAMPS AND LANDINGS: 3'-6" (1070)
- 12 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" (2389) O.C. CAULKING OR GASKET BETWEEN PLATE AND TOP OF FOUNDATION WALL. USE NON-SHRINK GROUT TO FILL SILL PLATE WHEN REQUIRED (9.23.7)
- 13 BASEMENT INSULATION** (9.12.7 3.11.7)  
PROVIDE CONTINUOUS INSULAT. W/ BUILT IN 6 MIL. POLYETHYLENE VAPOUR BARRIER. INSULATION TO EXTEND NO MORE THAN 8" (200) ABOVE FINISHED BASEMENT FLOOR. DAMPROOFED WITH BUILDING PAPER BETWEEN THE FOUNDATION WALL AND INSULATION UP TO GRADE LEVEL.
- 14 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 PAPER OR 2 MIL. POLYETHYLENE FILM, 1/2" (12.7) ANCHOR BOLTS 8" (200) LONG. EMBEDDED 4" (100) MIN. INTO CONC. @ 7'-10" (2389) O.C. 4" (100) HIGH CONC. 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)  
9'-10" (3000) MAX. SPAN BETWEEN COLUMNS, 3/16" (90) SINGLE TUBE ADJUSTABLE STEEL COLUMN CONFORMING TO CAN/CSA-S7.2M, 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 SOIL REPORT.  
(SUPPORTING 3 STOREY FLR. LOAD PROVIDE 42"x42"x18" (1070x1070x460) CONC. FOOTING SUPPORTING 3 STOREY FLR. LOAD PROVIDE 40"x40"x19" (1060x1060x480) CONC. FOOTING)
- 15A NON-ADJUSTABLE STEEL BASEMENT COLUMN**  
3/12" (90) x 0.1188" (4.78) 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 SOIL REPORT.  
(SUPPORTING 3 STOREY FLR. LOAD PROVIDE 42"x42"x18" (1070x1070x460) CONC. FOOTING SUPPORTING 3 STOREY FLR. LOAD PROVIDE 40"x40"x19" (1060x1060x480) CONC. FOOTING)
- 15B NON-ADJUSTABLE STL. COLUMN AT FOUNDATION WALL**  
3/12" (90) x 0.1188" (4.78) 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 SOIL REPORT.  
(SUPPORTING 3 STOREY FLR. LOAD PROVIDE 42"x42"x18" (1070x1070x460) CONC. FOOTING SUPPORTING 3 STOREY FLR. LOAD PROVIDE 40"x40"x19" (1060x1060x480) 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 3/12" (90), CONC. NIB WALLS TO HAVE EXTENDED FOOTINGS
- 17 WOOD STRAPPING AT STEEL BEAMS** (9.23.8.3, 9.23.9.3)  
1"x3" (19x64) CONTIN. WOOD STRAPPING BOTH SIDES OF STEEL BEAM.
- 18 GARAGE SLAB** (9.16, 9.35)  
4" (100) COARSE GRANULAR FILL 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 ON WALLS AND SPRAY FOAM FOR CEILING. TAPE AND SEAL ALL JOINTS GAS TIGHT. (9.10.17.10, CANULUS-S705.2)

STAMP

## cont. SECTION 1.0. CONSTRUCTION NOTES

- 39 TWO STOREY VOLUME SPACES** (9.23.10.1, 9.23.11, 9.23.16.1)  
WALL ASSEMBLY WIND LOADS  
EXTERIOR STUDS <= 0.5 kPa (G50) > 0.5 kPa (G50)  
SPACING MAX HEIGHT SPACING MAX HEIGHT  
BRICK 2'-2"x6" (38x140) 12" (305) O.C. 18'-4" (5588) 12" (305) O.C. 18'-4" (5588)  
SIDING 2'-2"x6" (38x140) SPR. #2 16" (406) O.C. 18'-4" (5588) 12" (305) O.C. 18'-4" (5588)  
BRICK 2'-2"x6" (38x140) 12" (305) O.C. 21'-0" (6400) 12" (305) O.C. 21'-0" (6400)  
SIDING 2'-2"x6" (38x140) SPR. #2 16" (406) O.C. 21'-0" (6400) 12" (305) O.C. 21'-0" (6400)  
\*\* STUD SIZE & SPACING TO BE VERIFIED BY STRUCTURAL ENGINEER \*\*  
STUDS ARE TO BE CONTINUOUS, CW 3/8" (9.5) THICK EXTERIOR PLYWOOD SHEATHING. PROVIDE SOLID WOOD BLOCKING BETWEEN WOOD STUDS @ 4'-0" (1220) O.C. VERTICALLY.  
- FOR HORIZ. DISTANCES LESS THAN 9'-0" (2696) PROVIDE 2"x6" (38x140) STUDS @ 16" (406) O.C. WITH CANULUS-S705.2 TOP PLATE @ 1'-2"x6" (1-38x140) BOTTOM PLATE & MIN. OF 2'-2"x6" (3-38x140) CONT. HEADER AT GROUND FLOOR CEILING LEVEL TOE-WALL & GUAED AT TOP. BOTTOM PLATES & HEADERS.
- 40 1 HR. PARTY WALL (CONC. BLOCK)** (9.8-3) WALL TYPE 966 & 916)  
1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL W/ STRAPPING @ 24" (610) O.C. W/ 2" (50) CONC. BLOCK FILL 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) W/ STRAPPING @ 1/2" (12.7) GYPSUM SHEATHING.
- 40 1 HR. PARTY WALL (DOUBLE STUD)** (9.8-3) WALL TYPE 7103)  
5/8" (15.9) STEEL W/ GYPSUM SHEATHING ON EXTENSIVE SIDE OF 2" (50) 2"x2" (38x38) STUDS @ 16" (406) O.C. 1" (25) APART ON SEPARATE 2"x4" (38x89) SILL PLATES. 2"x6" (38x140) AS REQUIRED FILL ONE SIDE OF STUD CAVITY WITH AT LEAST 90% OF ABSORPTIVE MATERIAL PROCESSED FROM ROCK, SLAG OR GLASS. TAPE FILL AND SAND ALL GYPSUM JOINTS. AT UNFINISHED EXTERIOR FACE OF CONC. BLOCK TO BE SEALED WITH 2 COATS OF PAINT. GYPSUM SHEATHING TO BE ATTACHED TO CONC. BLOCK. (REFER TO DETAILS)
- 40A 2 HR. FIREWALL** (9.8-3) WALL TYPE 966 & 916)  
1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL W/ STRAPPING @ 24" (610) O.C. W/ 2" (50) 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 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 (2"x6")**  
STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1/2" (38) E.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS 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 (2"x6") W/ CONTIN. INSUL.**  
STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1/2" (38) E.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON APPROVED AIR/VAPOUR BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNTAPED), MECHANICALLY FASTENED AS PER MANUFACTURERS SPECIFICATIONS, 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 VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)
- 30 MIN. HORIZ. STEP** (9.15.3.9)  
MIN. HORIZ. STEP = 23 5/8" (600), MAX. VERT. STEP = 23 5/8" (600).
- 31 CONC. PORCH SLAB** (9.16.4)  
4" (100) CONCRETE SLAB ON GRADE ON 4" (100) COARSE GRANULAR FILL, REINFORCED WITH 6"x6"x23/64" (152x152x9.5) MESH PLACED NEAR MID-DEPTH OF SLAB, CONC. STRENGTH 32MPa (4640psi) WITH 5-8% AIR ENTRAINMENT ON COMPACTED SUB-GRADE.
- 32 FURNACE VENTING** (9.32)  
DIRECT VENT FURNACE TERMINAL MIN. 3'-0" (915) FROM A GAS REGULATOR, MIN. 12" (305) ABOVE FIN. GRADE. FROM ALL OPENINGS, EXHAUST AND INTAKE VENTS, HRV INTAKE VENT, AND HRV EXHAUST VENT (1930) FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE.
- 33 FIREPLACE VENTING** (9.23.3)  
DIRECT VENT GAS FIREPLACE VENT TO BE A MIN. 12" (305) FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.
- 34 FLOOR FRAMING** (9.23.3.5, 9.23.3.4, 9.23.14)  
T&G SUBFLOOR ON WOOD FLOOR JOISTS. FOR CERAMIC TILE APPLICATION SEE O.B.C. 9.30.6. ALL JOISTS WHERE REQUIRED TO BE BRIDGED WITH 2"x2" (38x38) CROSS BRACING OR CEILING BLOCKING @ 16" (410) O.C. MAX. ALL JOISTS TO BE STRAPPED WITH 1"x3" (19x64) @ 6'-11" (2108) O.C. UNLESS A PANEL TYPE CEILING FINISH IS APPLIED.
- 34A HEADER CONSTRUCTION**  
PROVIDE CONTINUOUS APPROVED AIR/VAPOUR BARRIER (HEADER WRAP) UNDER THE SILL PLATE. AROUND THE RIM BOARD AND UNDER THE BOTTOM PLATE. THE HEADER WRAP SHALL EXTEND 6" (152) BELOW THE TOP OF FOUNDATION WALL AND WILL BE SEALED TO THE CONCRETE FOUNDATION WALL. EXTEND HEADER WRAP 6" (152) UP THE INTERIOR SIDE OF THE STUD WALL AND OVERLAP WITH THE VAPOUR BARRIER AND SEAL THE JOINT. ALL EDGES/JOINTS MUST BE MECHANICALLY CLAMPED.
- 35 EXPOSED BUILDING FACE W/ LIMITING DISTANCE <= 3.11' (1.20m)**  
WALL ASSEMBLY CONTAINS INSULATION CONFORMING TO CANULUS-S7.2 & HAVING A MASS OF NOT LESS THAN 1.22 KG/M2 OF WALL SURFACE AND 1/2" (12.7) TYPE X GYPSUM WALLBOARD INTERIOR FINISH. EXTERIOR CLADDING MUST BE NON-COMBUSTIBLE WHEN LIMITING DISTANCE IS 23 5/8" (600) OR LESS. WALL ASSEMBLY REQUIRES TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 MINUTES & CONFORMING TO O.B.C. (9.10.14, 9.10.15). REFER TO DETAILS FOR TYPE & SPECS. \*\* AN OPENING IN AN EXPOSING BUILDING FACE NOT MORE THAN 21' (6400) MIN. SHALL NOT BE CONSIDERED AN UNPROTECTED OPENING AS PER 9.10.14.6.
- 36 COLD CELLAR PORCH SLAB** (9.39)  
FOR MAX. 8'-2" (2500) POORF DEPTH, 5" (127) 32 MPa (4640psi) CONC. SLAB W/ 5-8% AIR ENTRAINMENT. REIN. WITH 10M BARS @ 7'7" (230) O.C. EACH DIRECTION. W/ 1 1/4" (32) CLEAR COVER FROM BOTTOM OF SLAB TO FIRST LAYER OF BARS & SECOND LAYER OF BARS Laid DIRECTLY ON TOP OF LOWER LAYER OR OPPOSITE DIR. 2"x2"x6" (18x18x10) DOWELS @ 23 5/8" (600) O.C. ANCHORED IN PERIMETER FND. WALLS - 3% GREASE SLAB 1.0% FROM DOOR.
- 37 RANGE HOODS AND RANGE-TOP FANS**  
COOKING APPLIANCE EXHAUST FANS VENTS TO EXTERIOR MUST CONFORM TO OBC 9.10.22, 9.23.9.3, & 9.23.10.1
- 38 CONVENTIONAL ROOF FRAMING** (9.23.13, 9.23.15)  
2"x2" (38x140) RAFTERS @ 16" (406) O.C. 2"x8" (38x184) RIDGE BOARD, 2"x4" (38x89) COLLAR TIES AT MID-SPAN, CEILING JOISTS TO BE 2"x4" (38x89) @ 16" (406) O.C. FOR MAX. SPAN 14'-0" (4250). RAFTERS FOR BUILT UP ROOF OVER PRE-ENGINEERED ROOF TRUSSES AND OR CONVENTIONAL FRAMING TO BE 2"x4" (38x89) @ 24" (610) O.C. UNLESS OTHERWISE SPECIFIED.
- 43 STUD WALL REINFORCEMENT**  
PROVIDE STUD WALL REINFORCEMENT IN MAIN BATHROOM CONFORMING TO O.B.C. (9.5.2.3.1.1) (REFER TO DETAILS)
- 44 WINDOW WELLS**  
WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT LESS THAN 21 5/8" (560) SHALL BE PROVIDED IN FRONT OF THE WINDOW. EVERY WINDOW WELL SHALL BE DRAINED TO THE FOOTING LEVEL, OR OTHER SUITABLE LOCATION WITH A 4" (100) WEEPING TILE CW A FILTER CLOTH WRAP AND FILLED WITH CRUSHED STONE. (9.9.10.1, 5), 9.14.6.3)
- 45 SLOPED CEILING CONSTRUCTION** (9.23-12) 3.11.8, 9.23.4.2)  
2"x12" (38x286) 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 (0.52 RSI).
- 46 FLAT ROOF/BALCONY CONSTRUCTION**  
WATERPROOFING MEMBRANE (9.26.11, 9.26.15, 9.26.16) FULLY ADHERED TO 5/8" (15.9) T&G EXTERIOR GRADE PLYWOOD SHEATHING ON 2"x2" (38x38) JOISTS. 1" (25) MIN. DRAINAGE DRAINAGE DRAIN TO BE PROVIDED ON OUTSIDE FACE OF CURB. SCUPPER DRAIN TO BE LOCATED 24" (610) MIN. AWAY FROM HOUSE. 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 VAULT CONSTRUCTION**  
CANITENVERED 2"x4" (38x89) SPACERS Laid FLAT ON 2"x10" (38x235) SPR. #2 ROOF JOIST Nailed TO BUILT-UP 3'-4" (19) PLYWOOD HEADER PROFILED FOR RAFTER, SPRAY FOAM INSULATION BETWEEN JOISTS W/ GYPSUM BOARD. INTERIOR FIN. (REFER TO DETAILS)

## 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. REFER TO SITING & GRADING PLANS OF THIS UNIT FOR CONFIRMATION 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
------------------------