FRONT ELEVATION 'A'





FRONT ELEVATION 'B'

FRONT ELEVATION 'C'

# UNIT 4505

## SB-12 ENERGY EFFICIENCY DESIGN MATRIX

PERFORMANCE COMPLIANCE SB-12 (SECTION 3.1.1) TABLE 3.1.1.2.A PACKAGE A1

SPACE HEATING FUEL ■ GAS □ OIL □ ELECTRIC ☐ PROPANE ☐ SOLID FUEL □ EARTH

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)+1.5ci
BASEMENT WALLS	3.52 ci 🔔	3.52 ci
* PROPOSED VALUES MAY BE SUBSTITUTED W/ 2.11+1.76ci (R12+R10ci)	(R20 ci) <b>^</b>	(R20 ci) ^
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 $\leq$ 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%
DOMESTIC HOT WATER HEATER (EF)	0.8	0.9
DWHR UNIT (%) (SEE O.B.C. 3.1.1.12 FOR RULES & EXCEPTIONS)	53.3% ON 1 S	HOWERS MIN.
	INSULATION RSI (R) VALUE CEILING W/ ATTIC SPACE CEILING W/O ATTIC SPACE EXPOSED FLOOR WALLS ABOVE GRADE BASEMENT WALLS * 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 HEATED SLAB OR SLAB ≤ 600mm BELOW GRADE WINDOWS & DOORS WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE) SKYLIGHTS (MAX. U-VALUE) APPLIANCE EFFICIENCY SPACE HEATING EQUIP. (AFUE%) HRV EFFICIENCY (%) DOMESTIC HOT WATER HEATER (EF)	INSULATION RSI (R) VALUE  CEILING W/ ATTIC SPACE  CEILING W/O ATTIC SPACE  10.56 (R60)  EXPOSED FLOOR  5.46 (R31)  WALLS ABOVE GRADE  BASEMENT WALLS  * 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)  HEATED SLAB OR SLAB ≤ 600mm BELOW GRADE  1.76 (R10)  WINDOWS & DOORS  WINDOWS/SLIDING GLASS DOORS (MAX U-VALUE)  APPLIANCE EFFICIENCY  SPACE HEATING EQUIP. (AFUE%)  HRV EFFICIENCY (%)  DOMESTIC HOT WATER HEATER (EF)  10.56 (R60)  1.056 (R60)  1.26 (R31)  1.27 (R22)  1.28 (R20 ci)  1.39 (R20 ci)  1.40 (R20 ci)  1.50 (R10)  1.76 (R10)  1.76 (R10)  1.76 (R10)  1.76 (R10)  1.77 (R10)  1.78 (R10)  1.79 (R10)

ADEA CALOUL ATIONS	EL. 'A'	EL. 'B'	EL. 'C'
AREA CALCULATIONS	STD/OPT PLAN	STD/OPT PLAN	STD/OPT PLAN
GROUND FLOOR AREA	1722 sg. ft.	1722 sg. ft.	1722 sg. ft.

SECOND FLOOR AREA 2130 sq. ft. 2130 sq. ft. 2113 sq. ft. 3852 sq. ft. SUBTOTAL 3852 sq. ft. 3835 sq. ft. DEDUCT ALL OPEN AREAS 8 sq. ft. TOTAL NET AREA 3844 sq. ft. 3844 sq. ft. 3827 sq. ft. (357.12 sq. m.) (357.12 sq. m.) (355.54 sq. m.)

FINISHED BASEMENT AREA 0 sq. ft. 0 sq. ft. 0 sq. ft. 2156 sq. ft. 2156 sq. ft. 2157 sq. ft. COVERAGE W/OUT PORCH (200.30 sq. m.) (200.30 sq. m.) (200.39 sq. m.) 2203 sq. ft. 2200 sq. ft. 2276 sq. ft. **COVERAGE** (204.67 sq. m.) (204.39 sq. m.) (211.45 sq. m.)

WINDOW / WALL AREA EL 'A' EL. 'A' EL. 'A' EL. 'B' EL. 'B' EL. 'B' CALCULATIONS OPT. KIT & 2ND OPT, SEC OPT. GRD&SEC OPT. KIT & 2ND OPT. SEC OPT, GRD&SEC 4362.18 sq. ft. 4360.40 sq. ft. 4360.40 sq. ft. 4362.18 sq. ft. 4362.18 sq. ft. 4360.40 sq. ft. GROSS WALL AREA (405,26 sq. m.) (405.26 sq. m.) (405.26 sq. m.) (405.09 sq. m.) (405.09 sq. m.) 499.97 sq. ft. 466.66 sq. ft. 486.80 sq. ft. 518.66 sq. ft. 501.47 sq. ft. GROSS WINDOW AREA

(405.09 sq. m.) 479.33 sq. ft. (45.23 sq. m.) (48.19 sq. m.) (INCL. GLASS DOORS & SKYLIGHTS) (46.45 sq. m.) (46.59 sq. m.) (43.35 sq. m.) (44.53 sq. m.) TOTAL WINDOW % 11.50 % 11.46 % 10.70 % 11.89 % 10.99 % 11.16 %

1 - TITLE PAGE

2 - BASEMENT PLAN, ELEV. 'A'

3 - GROUND FLOOR PLAN, ELEV. 'A'

4 - PART. OPT. GROUND FLOOR PLAN, ELEV. 'A' - OPT. IN-LAW SUITE

5 - PARTIAL OPTIONAL GROUND FLOOR PLANS

6 - OPTIONAL SECOND FLOOR PLAN, ELEV. 'A'

7 - PART. BASEMENT PLANS, ELEV. 'B'

8 - PART. GROUND FLOOR PLANS, ELEV. 'B'

9 - PART. SECOND FLOOR PLAN, ELEV. 'B'

10 - PART. BASEMENT PLAN, ELEV. 'C'

11 - PART. GROUND FLOOR PLAN, ELEV. 'C'

12 - PART. SECOND FLOOR PLAN, ELEV. 'C'

13 - FRONT ELEVATION 'A'

14 - LEFT SIDE ELEVATION 'A'

15 - PARTIAL OPTIONAL LEFT SIDE ELEVATION 'A'

16 - RIGHT SIDE ELEVATION 'A'

17 - REAR ELEVATION 'A', 'B' & 'C'

18 - PARTIAL OPTIONAL REAR ELEVATION 'A', 'B' & 'C'

19 - FRONT ELEVATION 'B'

20 - LEFT SIDE ELEVATION 'B'

21 - PARTIAL OPTIONAL LEFT SIDE ELEVATION 'B'

22 - RIGHT SIDE ELEVATION 'B'

23 - FRONT ELEVATION 'C'

24 - LEFT SIDE ELEVATION 'C'

25 - PARTIAL OPTIONAL LEFT SIDE ELEVATION 'C'

26 - RIGHT SIDE ELEVATION 'C'

27 - CROSS SECTION 'A-A'

28 - WALK-UP BASEMENT CONDITION

29 - CONSTRUCTION NOTES

30 - CONSTRUCTION NOTES 2

EL. 'C' EL. 'C' DPT. KIT & 2ND OPT. SEC 4375.18 sq. ft. 4375.18 sq. ft. (406.47 sq. m.) (406.47 sq. m.) 575.45 sq. ft. 532.78 sq. ft. (49.50 sq. m.) (53.46 sq. m.) 12.18 % 13.15 %





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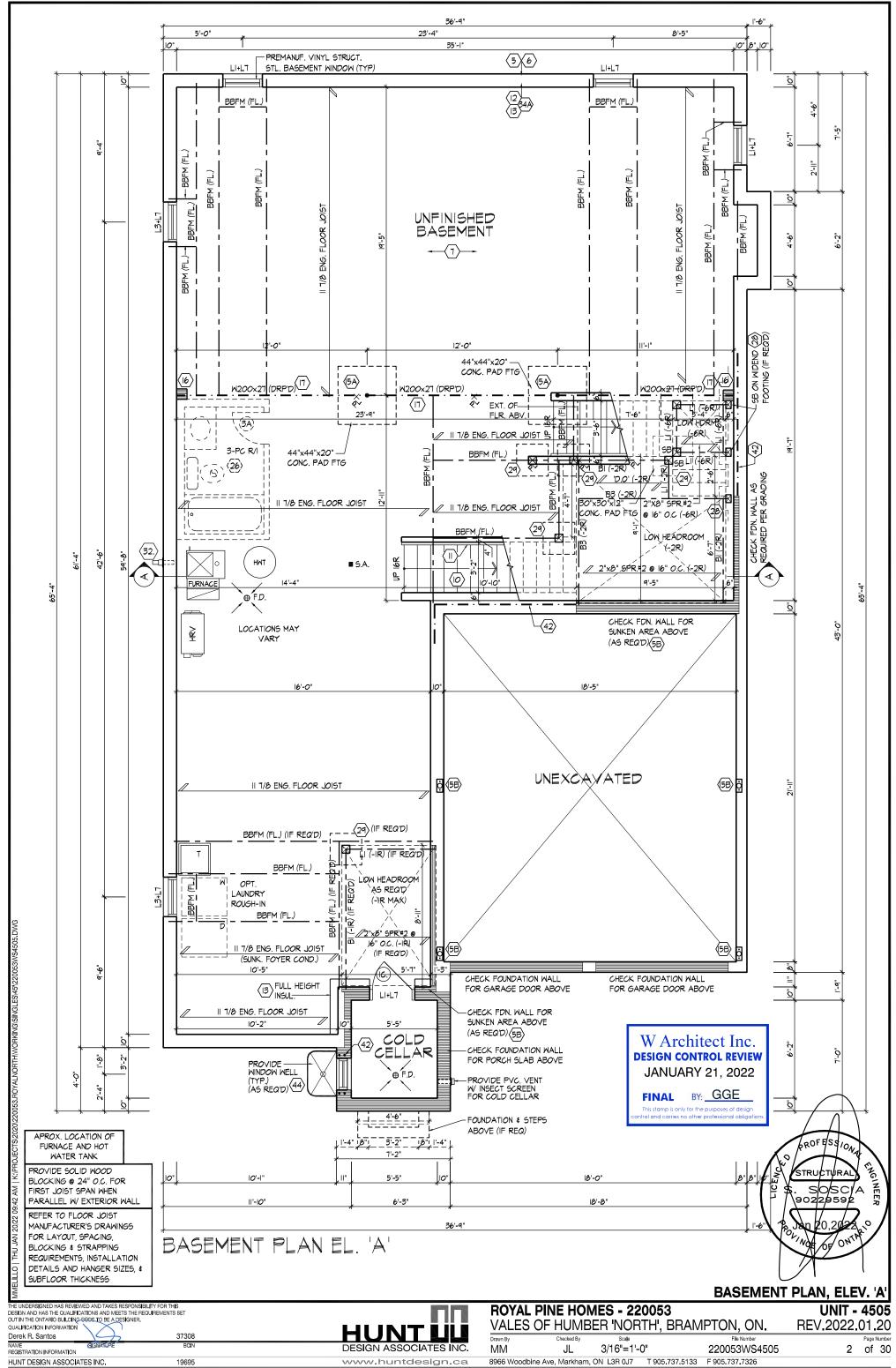
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6. ISSL	IED FOR FINAL APPROVAL	2022/01/20	MM
5. REV	ISED AS PER ARCHITECTURAL CONTROL COMMENTS	•	
4. REV	ISED AS PER ENGINEER COMMENTS	2022.01.13	JLT
3. REV	ISED AS PER ROOF TRUSS & FLOOR MANUFACTURE PLANS	2021/09/17	DSI
2. REV	ISED AS PER CLIENT'S COMMENTS	2021/12/07	JLT
1. ISSL	IED FOR CLIENT REVIEW & PRICING	2021/04/20	MM
	REVISIONS	DATE (YYYY/MM/DD)	BY

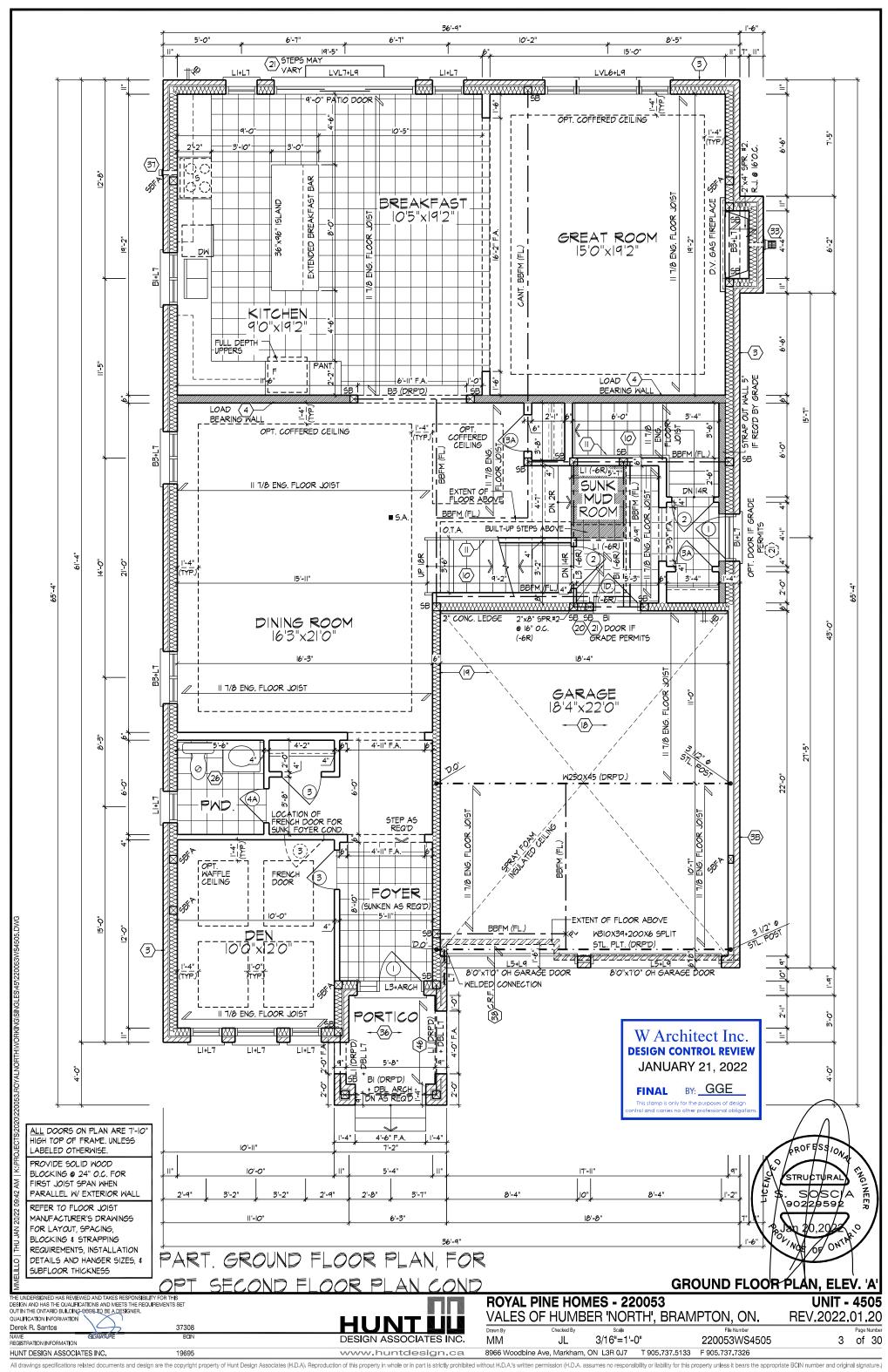
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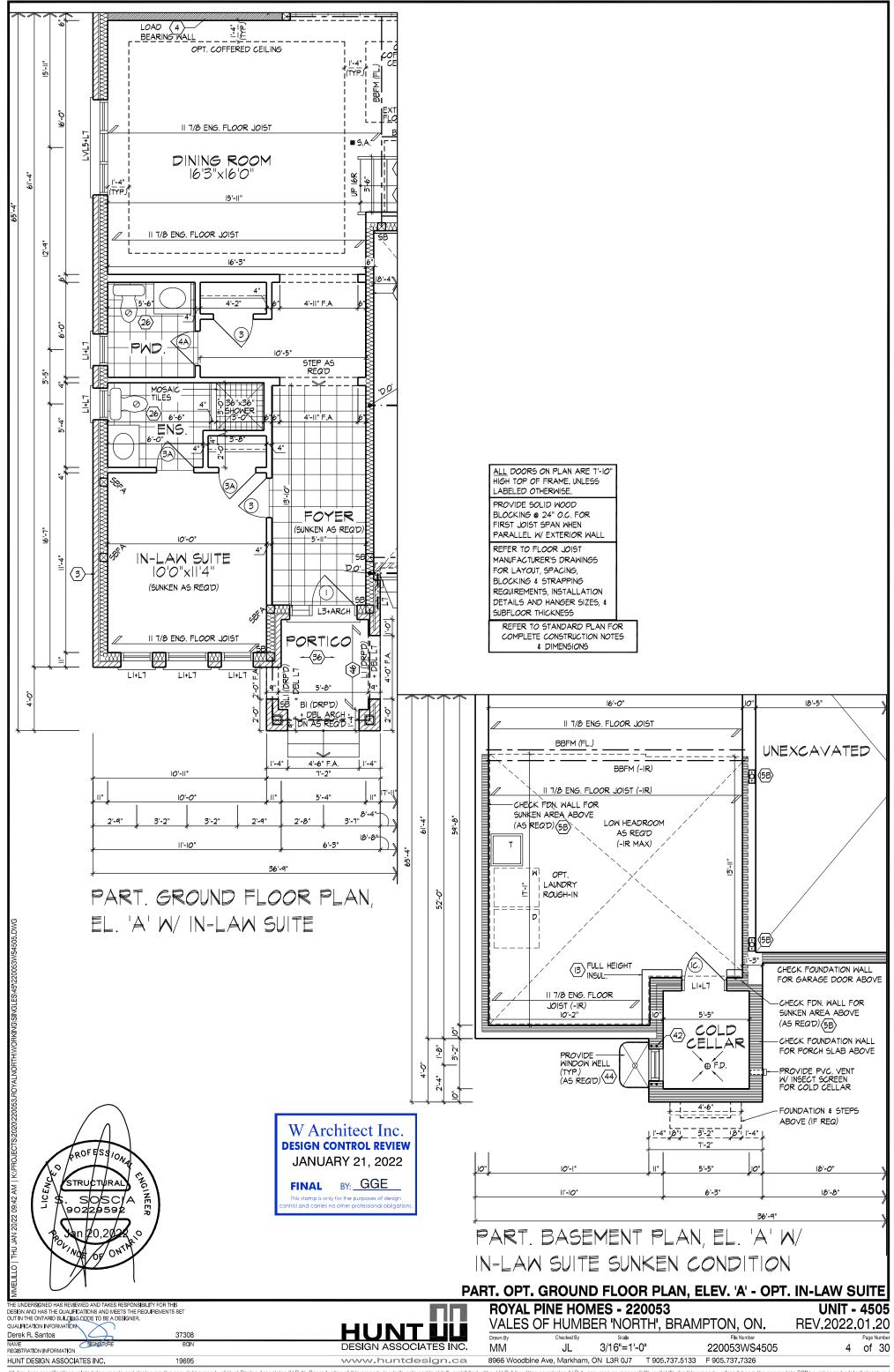
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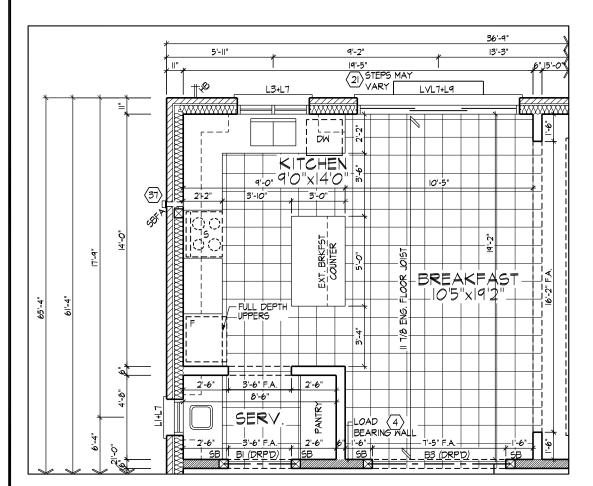
**UNIT - 4505** REV.2022.01.20

Derek R. Santos NAME REGISTRATION INFORMATION DESIGN ASSOCIATES INC. MM JL 3/16"=1'-0" 220053WS4505 of 30 8966 Woodbine Ave, Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7326 HUNT DESIGN ASSOCIATES INC 19695 www.huntdesign.ca









PART. GROUND FLOOR PLAN, OPT. KITCHEN LAYOUT

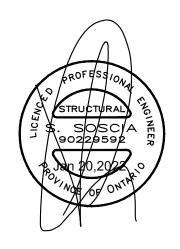
ALL DOORS ON PLAN ARE 7'-10' HIGH TOP OF FRAME. UNLESS LABELED OTHERWISE.

PROVIDE SOLID WOOD BLOCKING @ 24" O.C. FOR FIRST JOIST SPAN WHEN PARALLEL W/ EXTERIOR WALL

REFER TO FLOOR JOIST MANUFACTURER'S DRAWINGS FOR LAYOUT, SPACING, BLOCKING & STRAPPING REQUIREMENTS, INSTALLATION DETAILS AND HANGER SIZES, & SUBFLOOR THICKNESS

REFER TO STANDARD PLAN FOR COMPLETE CONSTRUCTION NOTES & DIMENSIONS

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**UNIT - 4505** 

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PARTIAL OPTIONAL GROUND FLOOR PLANS

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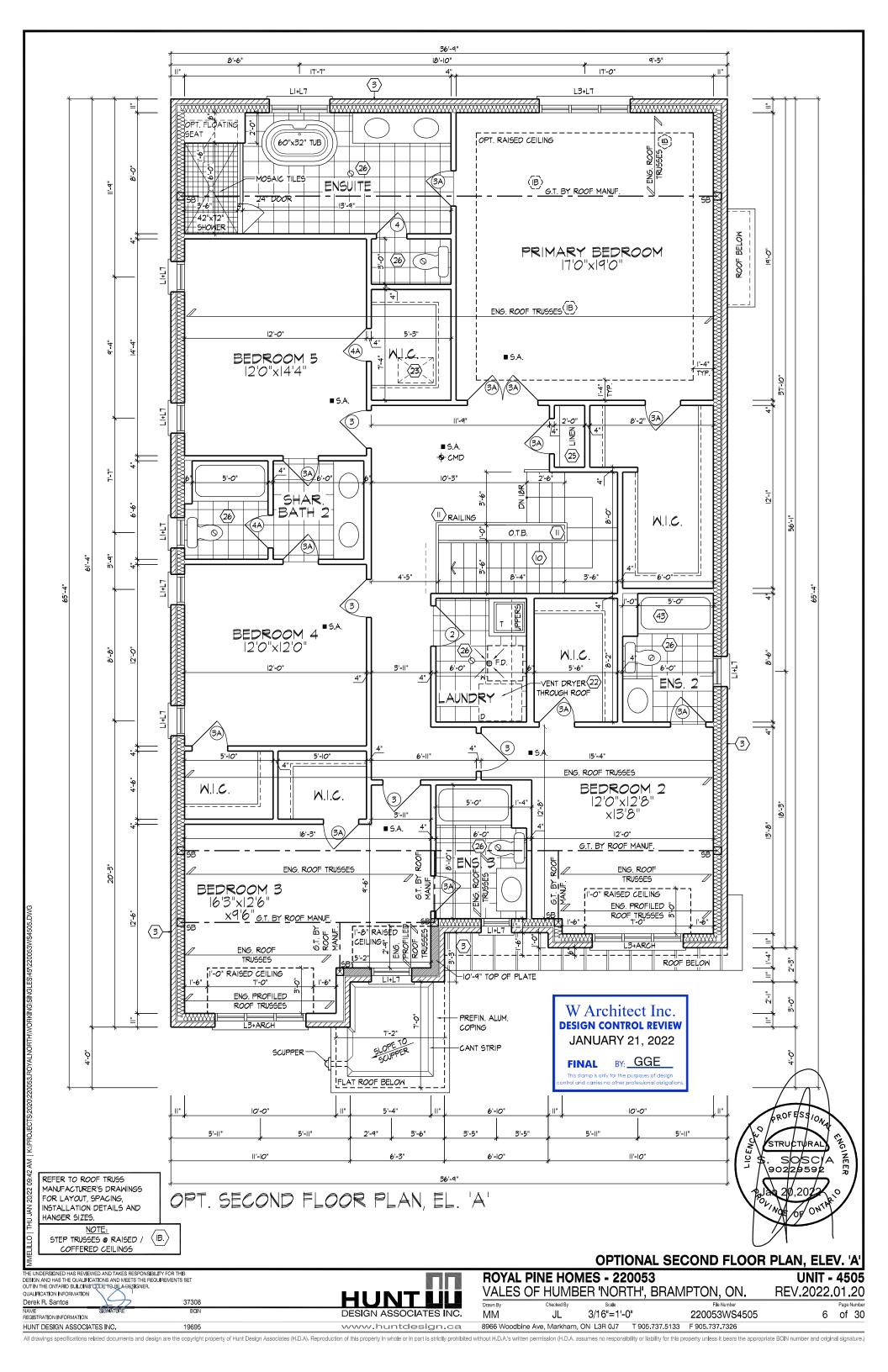
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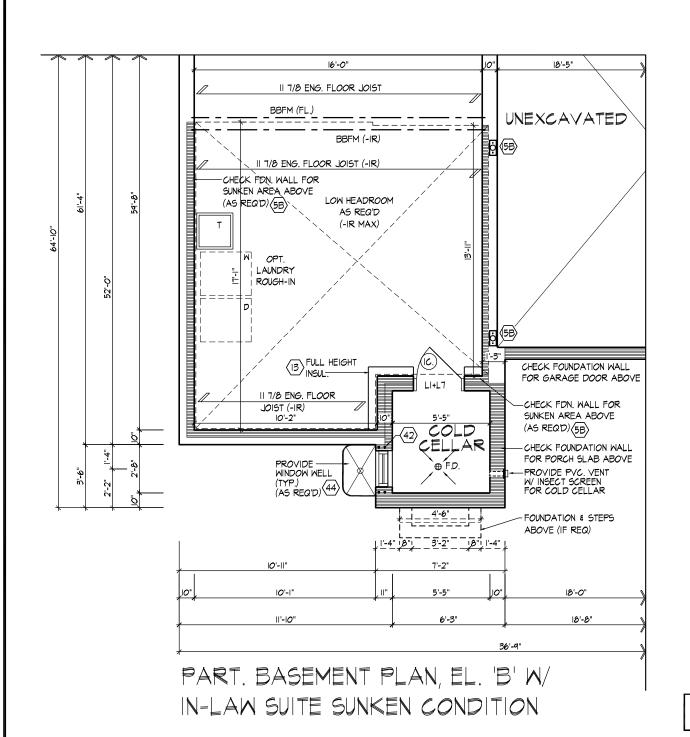
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3/16"=1'-0"

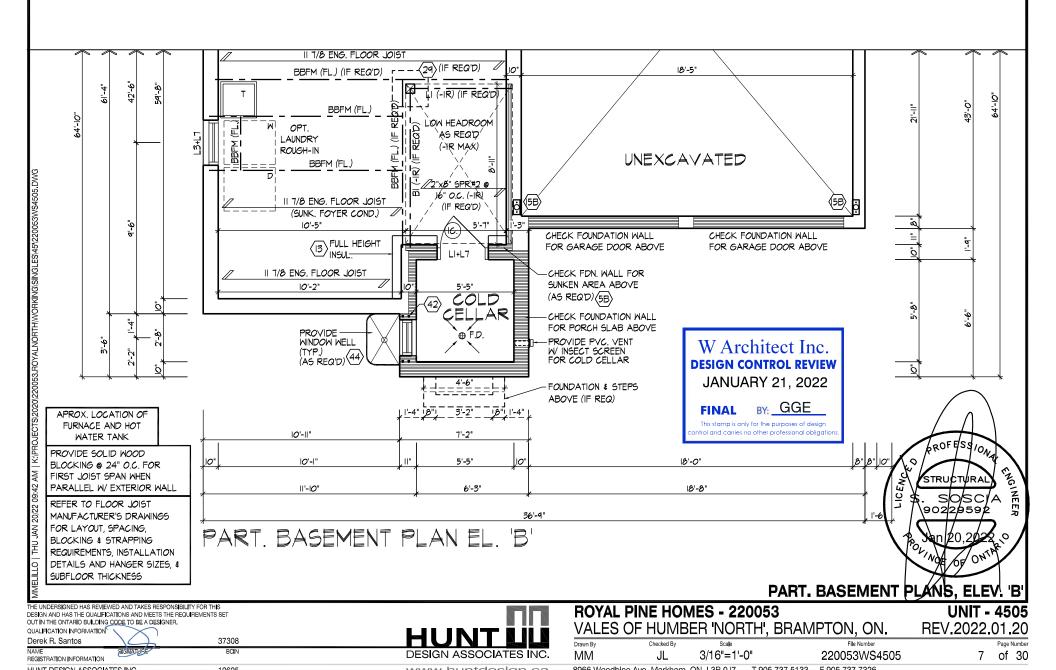
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220053WS4505

7 of 30

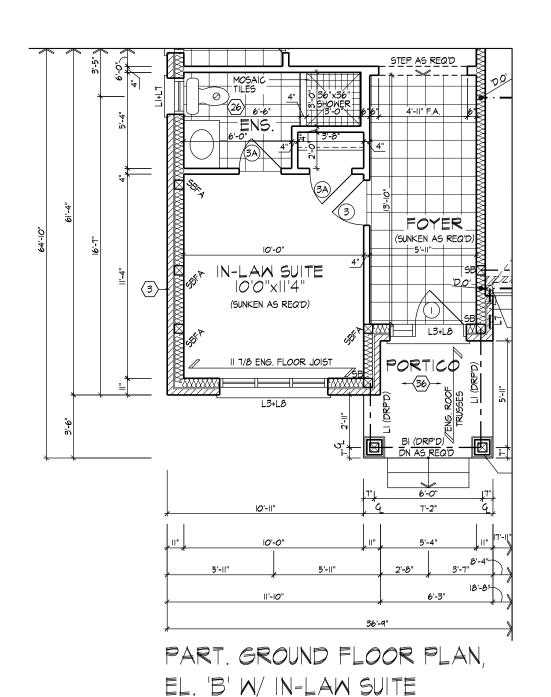
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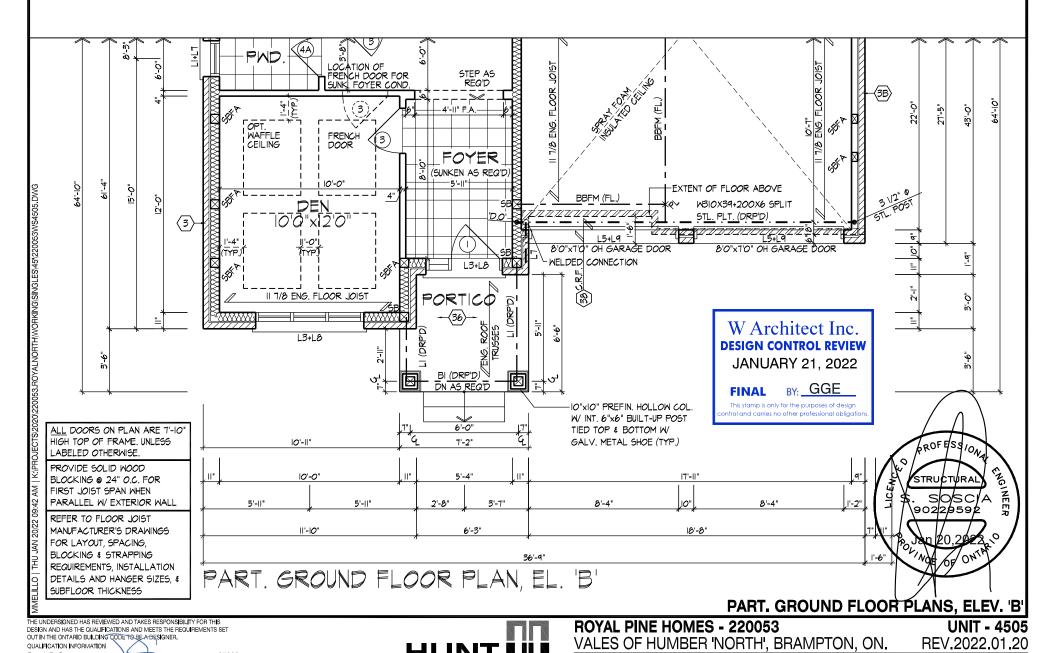
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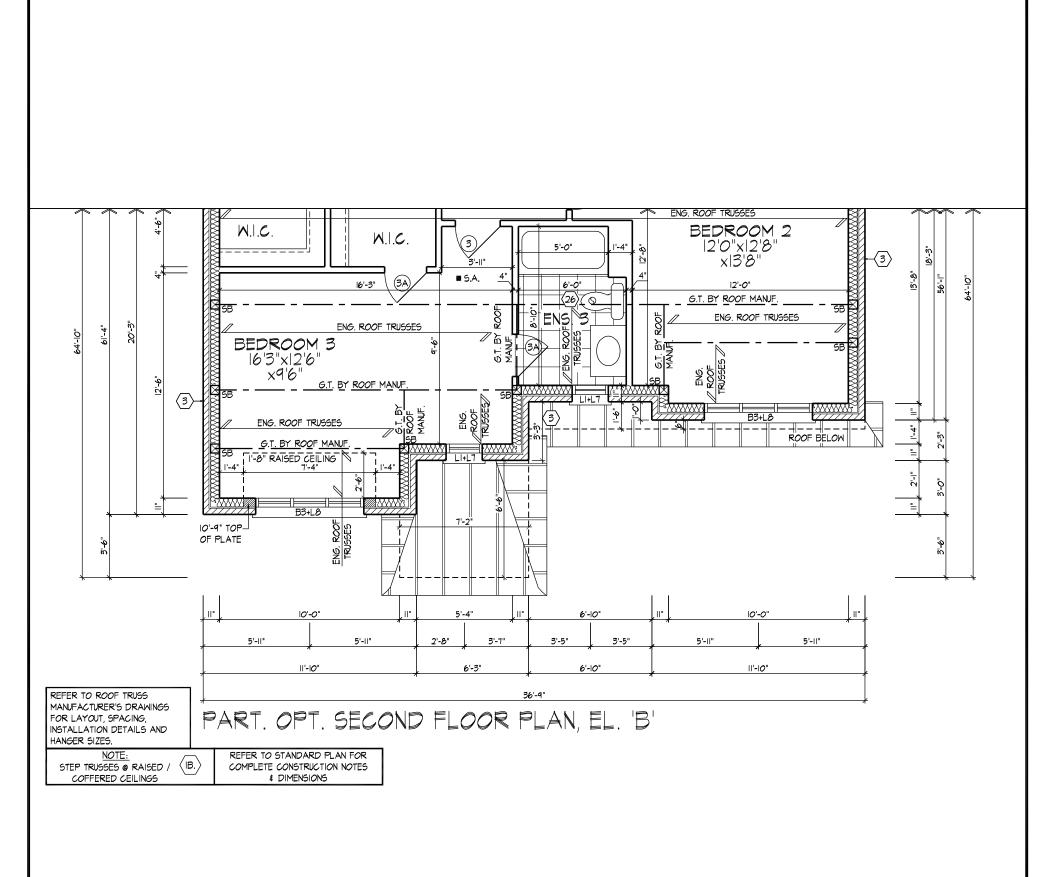
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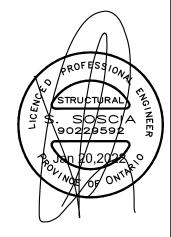
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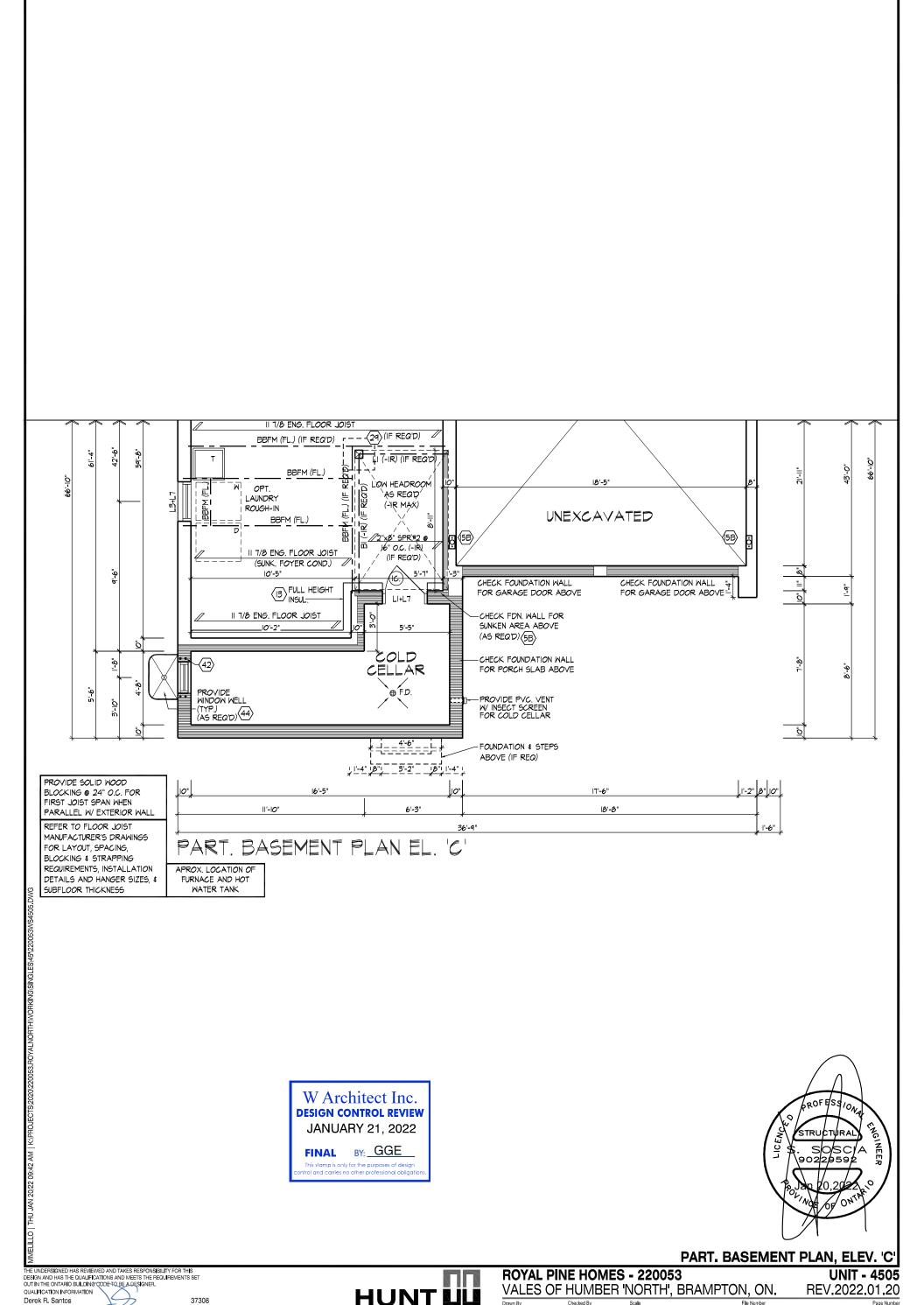
9 of 30

PART. SECOND FLOOR PLAN, ELEV. 'B'

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**UNIT - 4505 ROYAL PINE HOMES - 220053** VALES OF HUMBER 'NORTH', BRAMPTON, ON. REV.2022.01.20 3/16"=1'-0" 220053WS4505 MM JL



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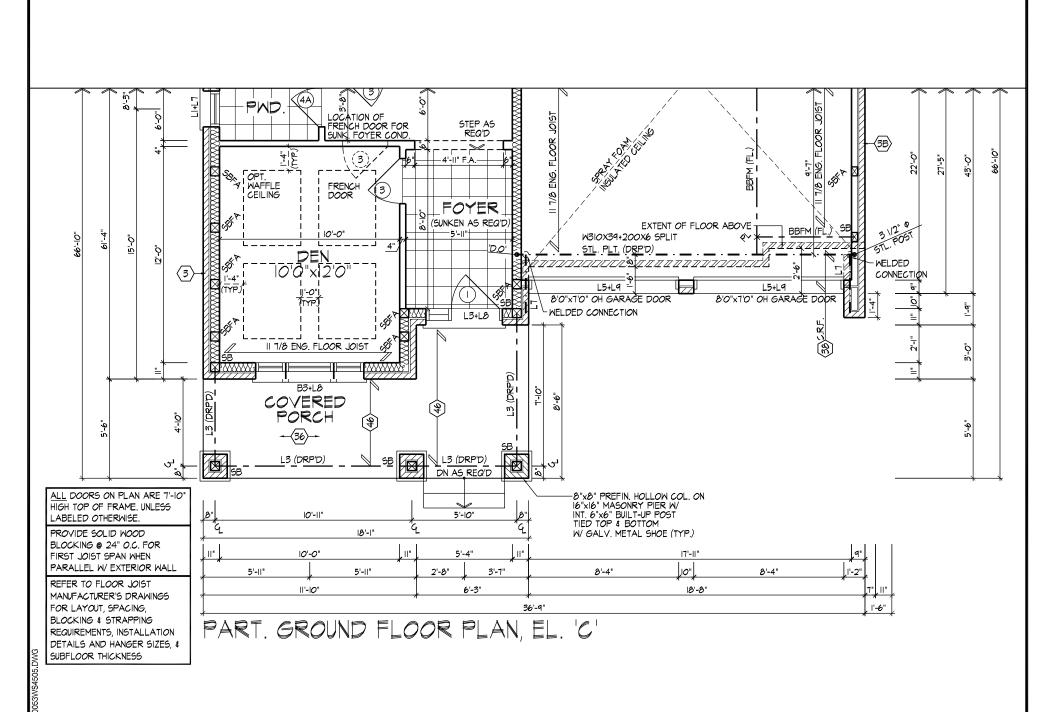
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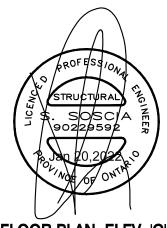
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PART. GROUND FLOOR PLAN, ELEV. 'C'

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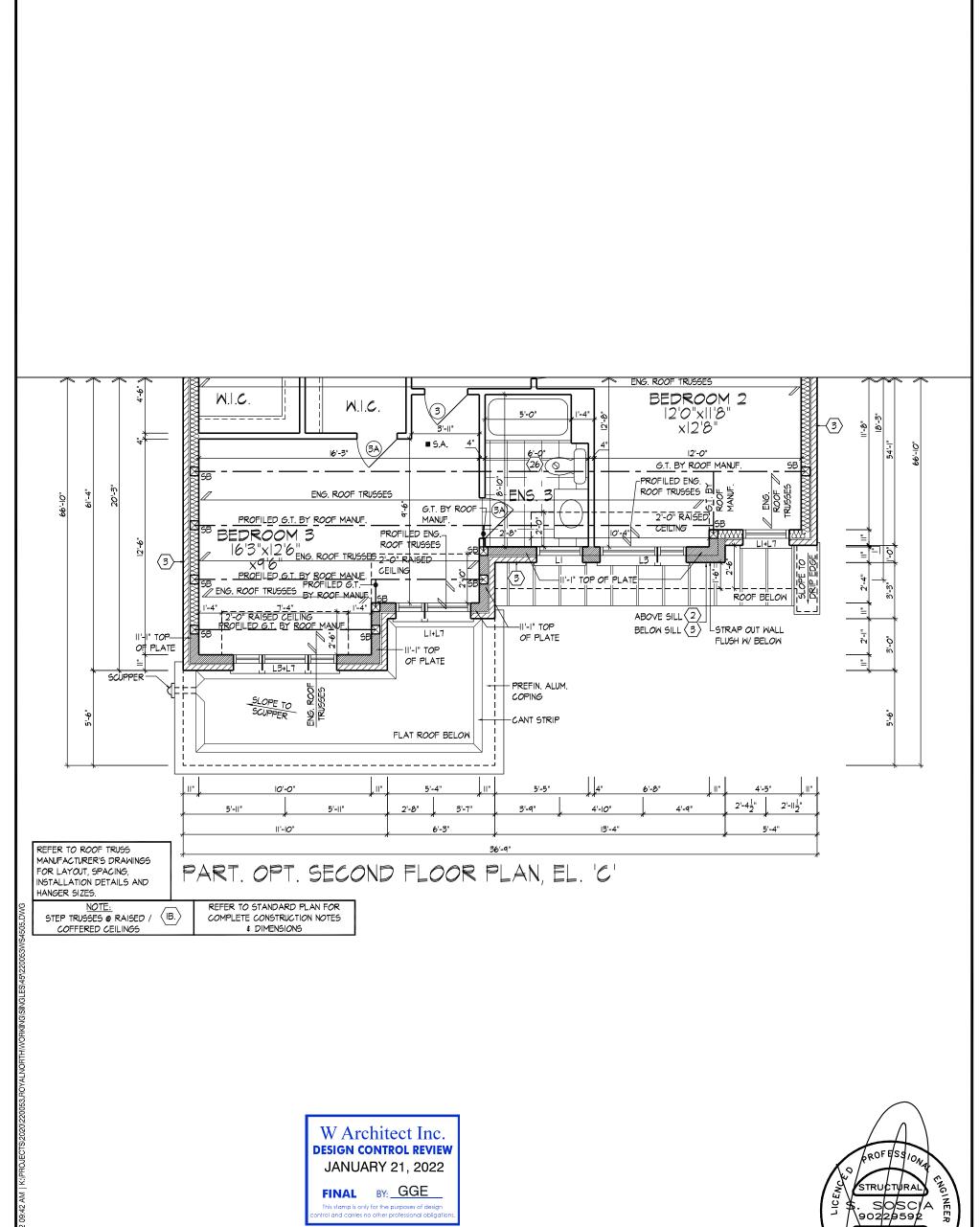
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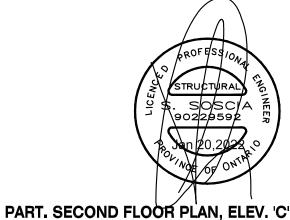
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**ROYAL PINE HOMES - 220053** VALES OF HUMBER 'NORTH', BRAMPTON, ON. REV.2022.01.20 3/16"=1'-0" 220053WS4505 MM JL

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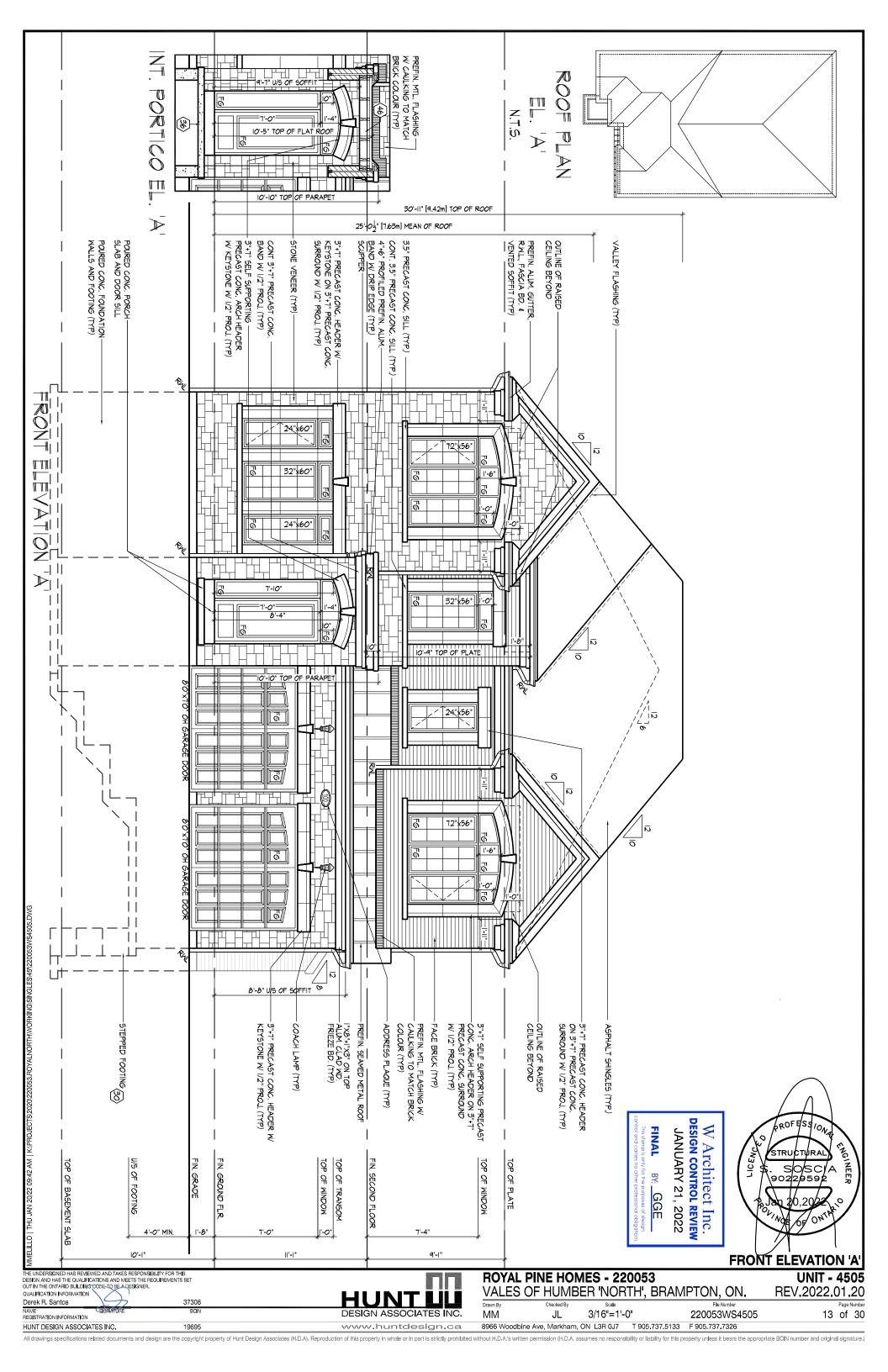
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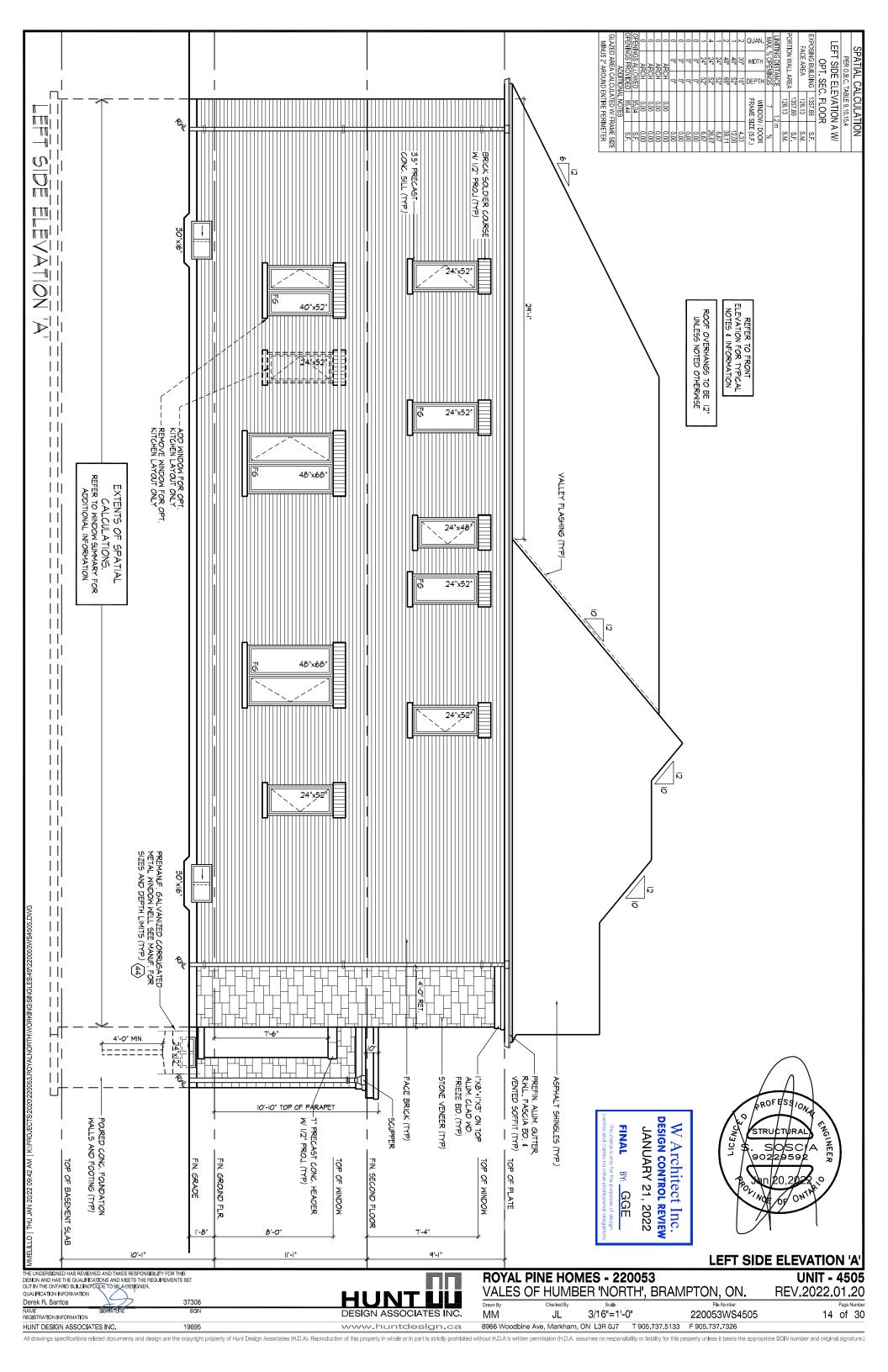
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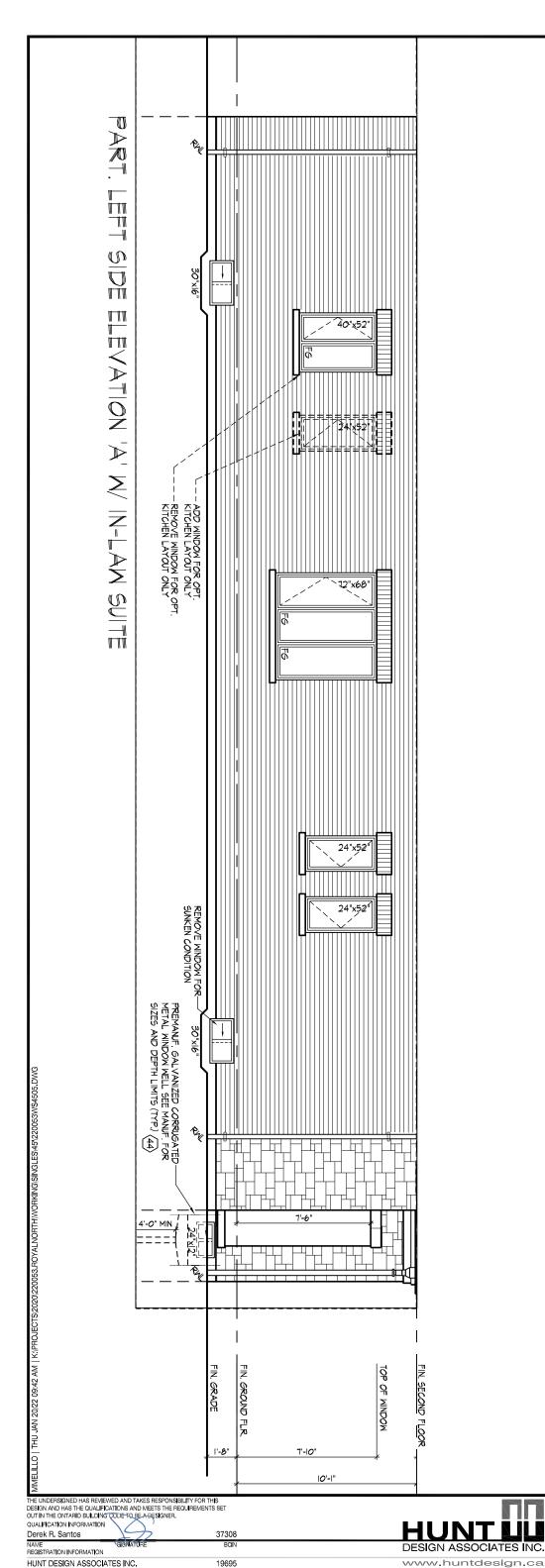
**ROYAL PINE HOMES - 220053** VALES OF HUMBER 'NORTH', BRAMPTON, ON.

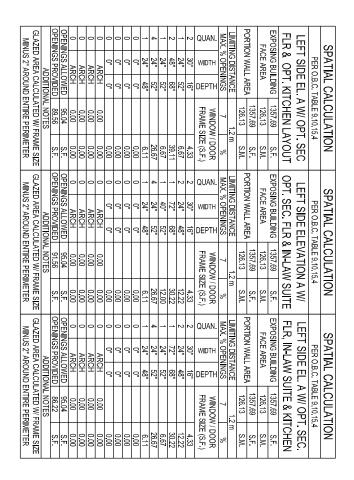
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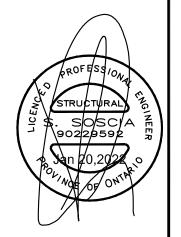
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PARTIAL OPTIONAL LEFT SIDE ELEVATION 'A'

ROYAL PINE HOMES - 220053 VALES OF HUMBER 'NORTH', BRAMPTON, ON.

UNIT - 4505 ON. REV.2022.01,20

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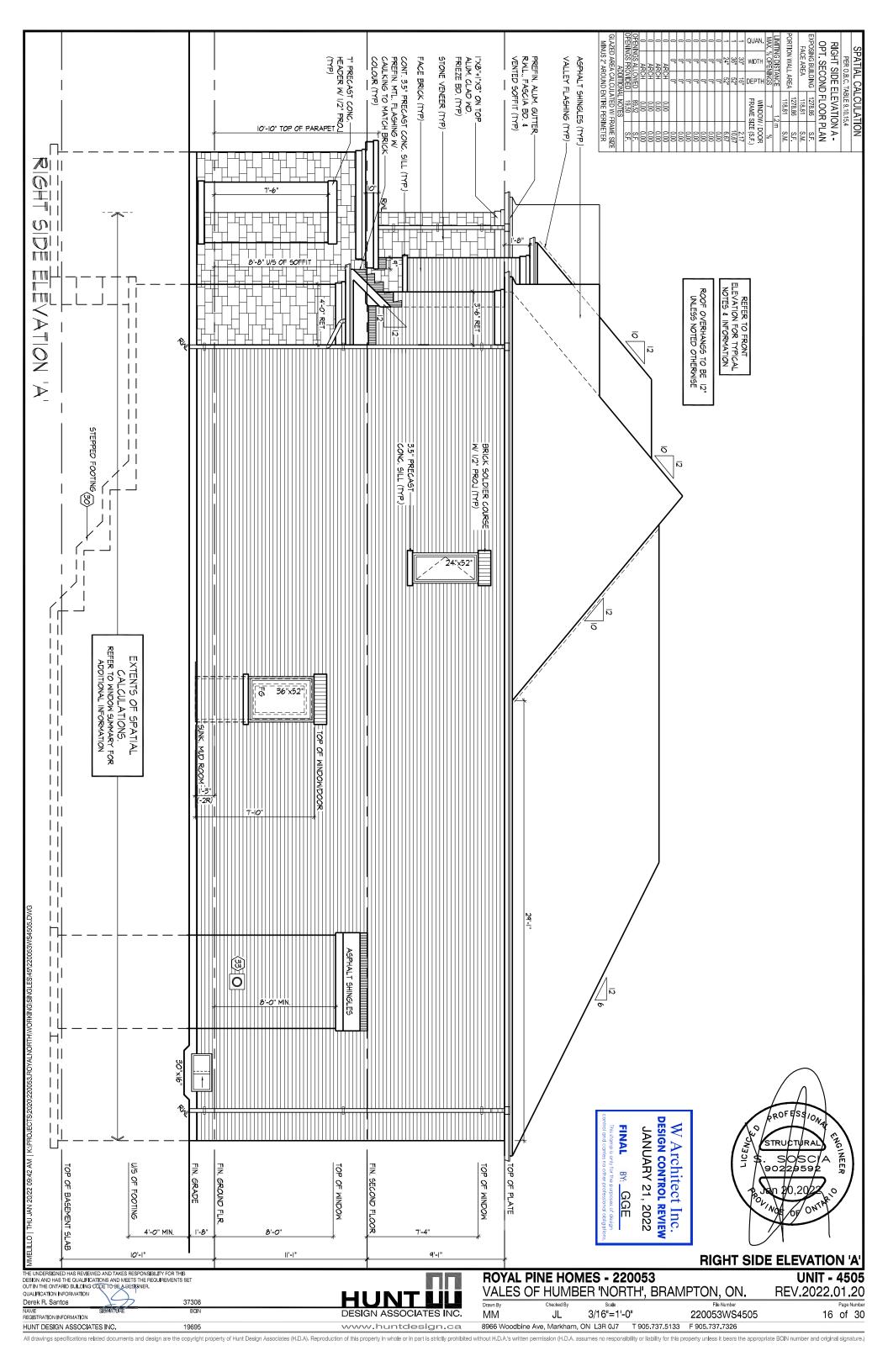
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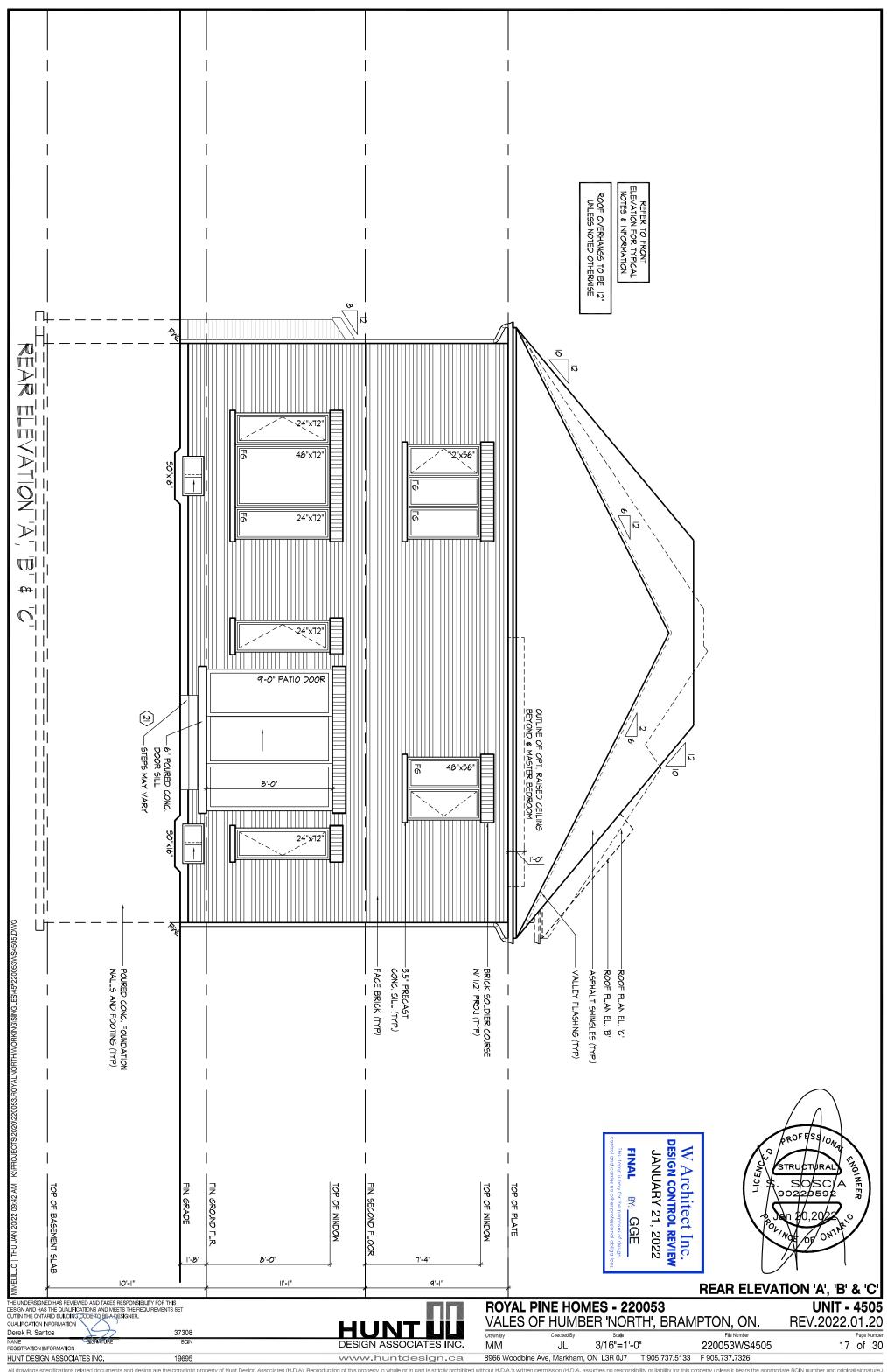
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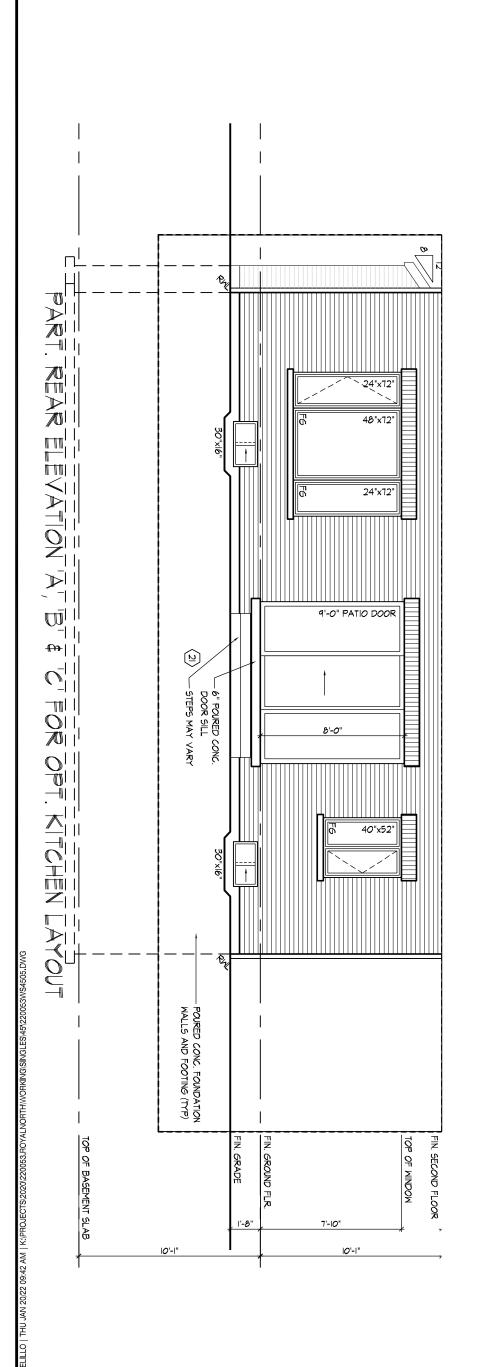
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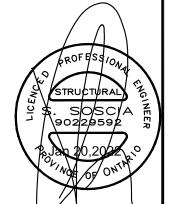
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REFER TO FRONT ELEVATION FOR TYPICAL NOTES & INFORMATION ROOF OVERHANGS TO BE 12" UNLESS NOTED OTHERWISE

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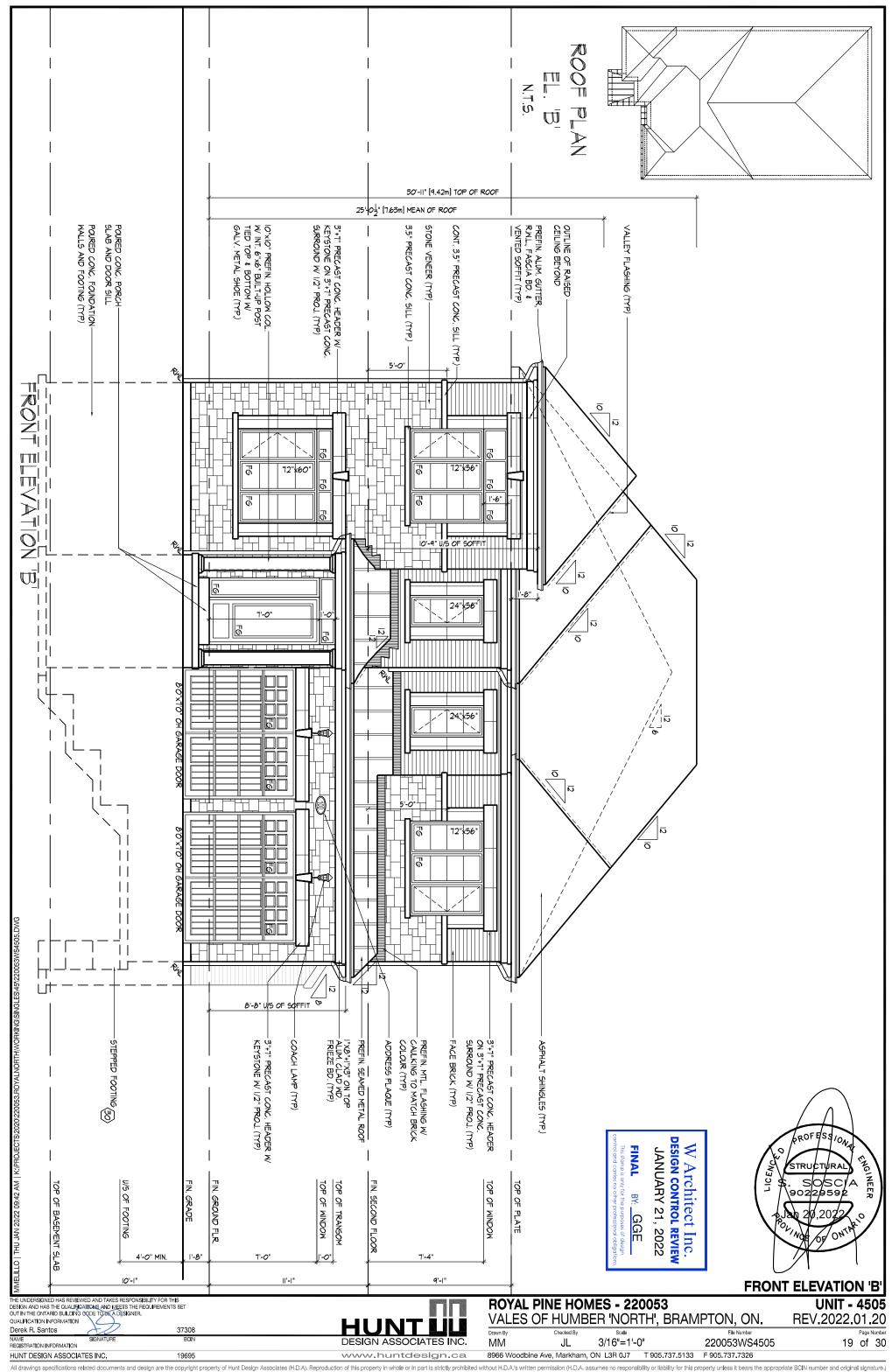
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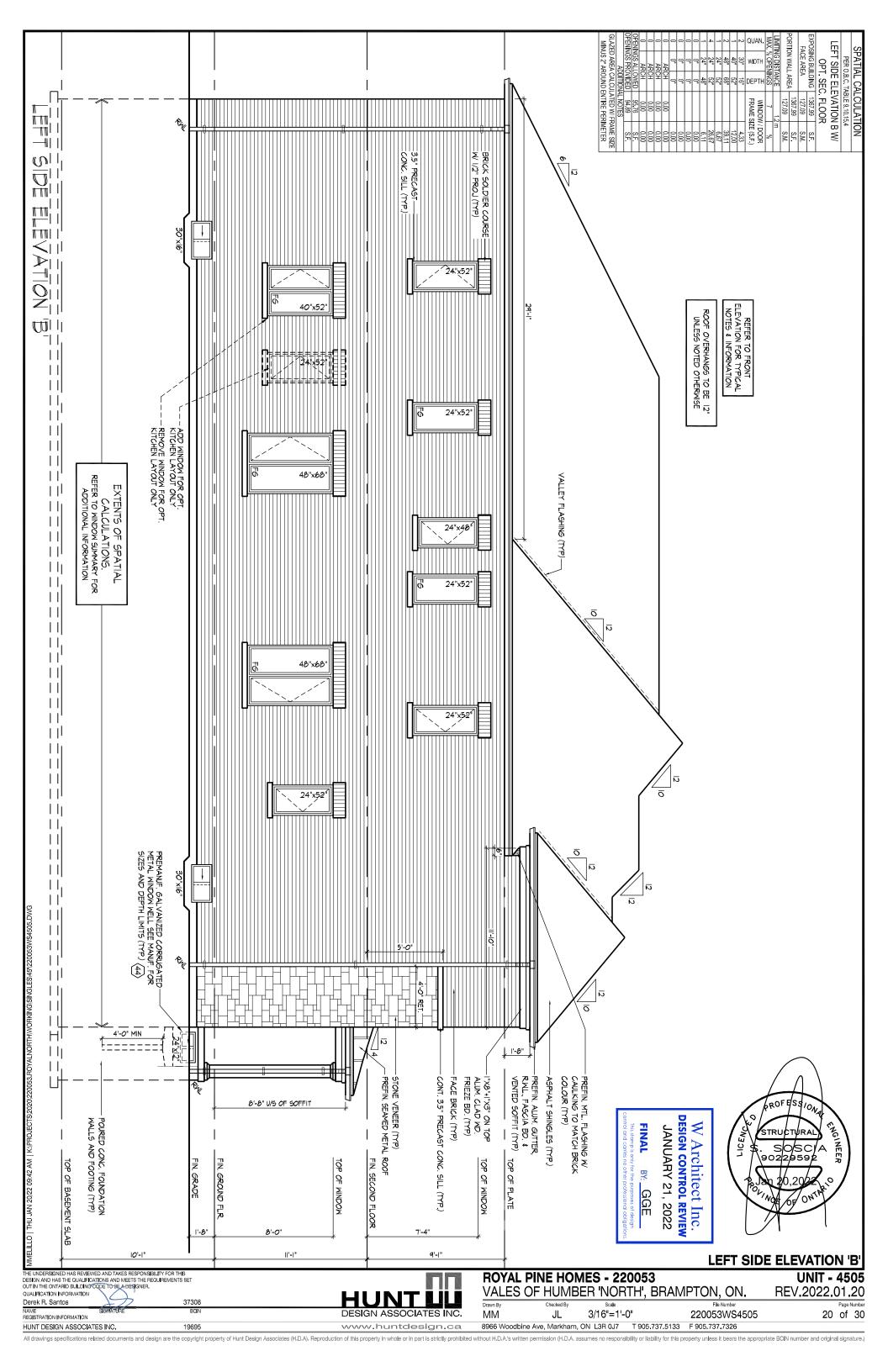
PARTIAL OPTIONAL REAR ELEVATION 'A', 'B' & 'C'

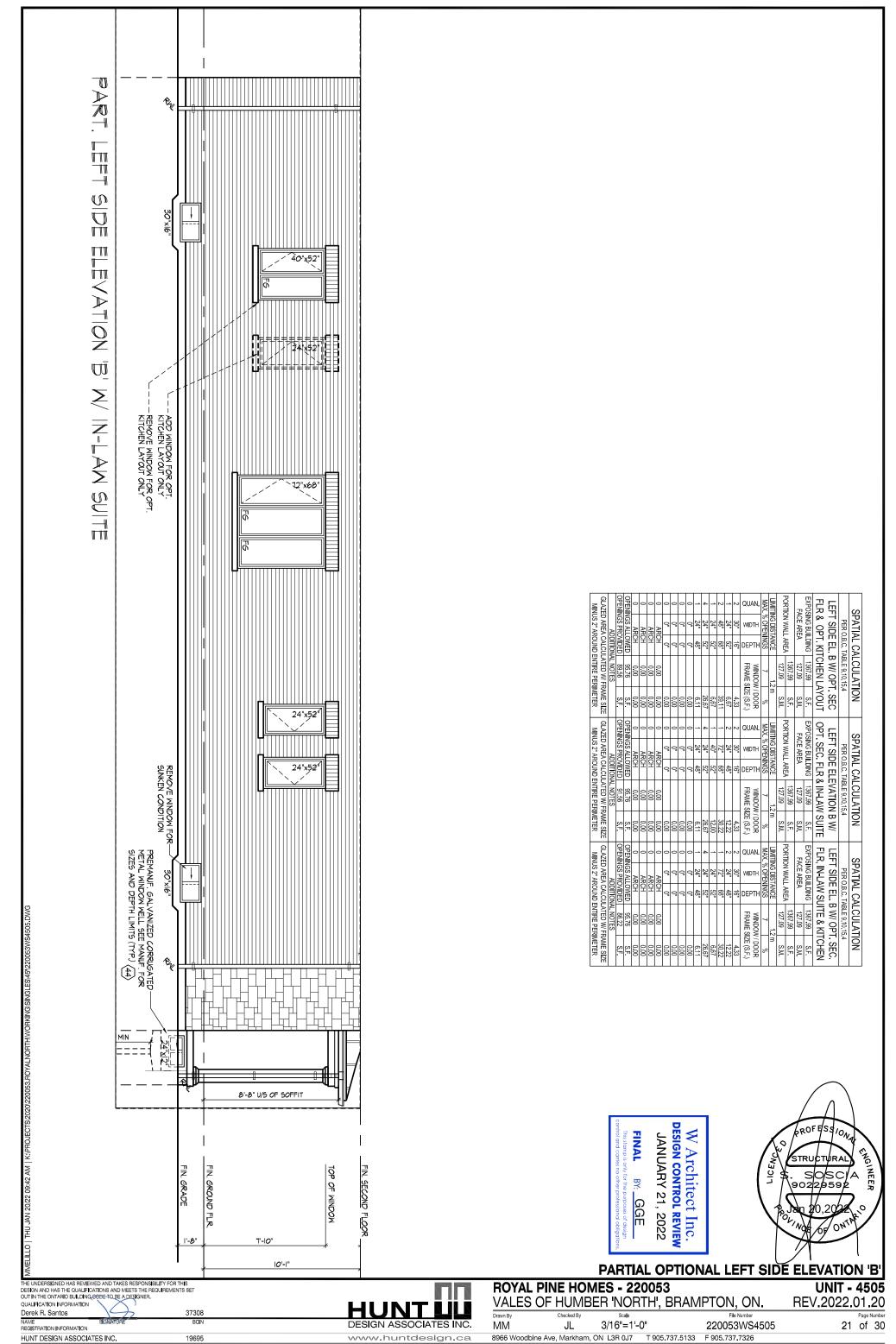
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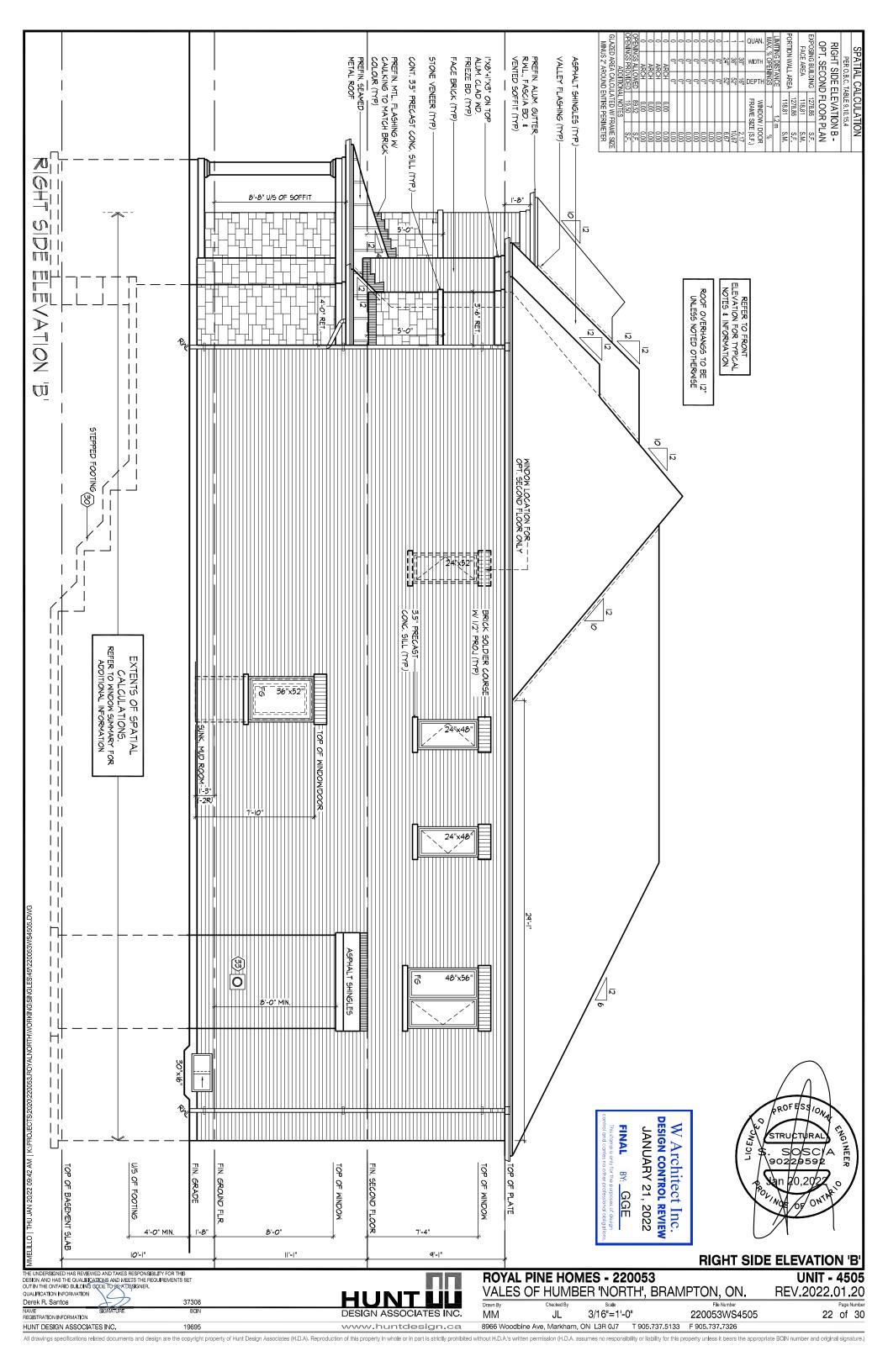
ROYAL PINE HOMES - 220053 VALES OF HUMBER 'NORTH', BRAMPTON, ON.

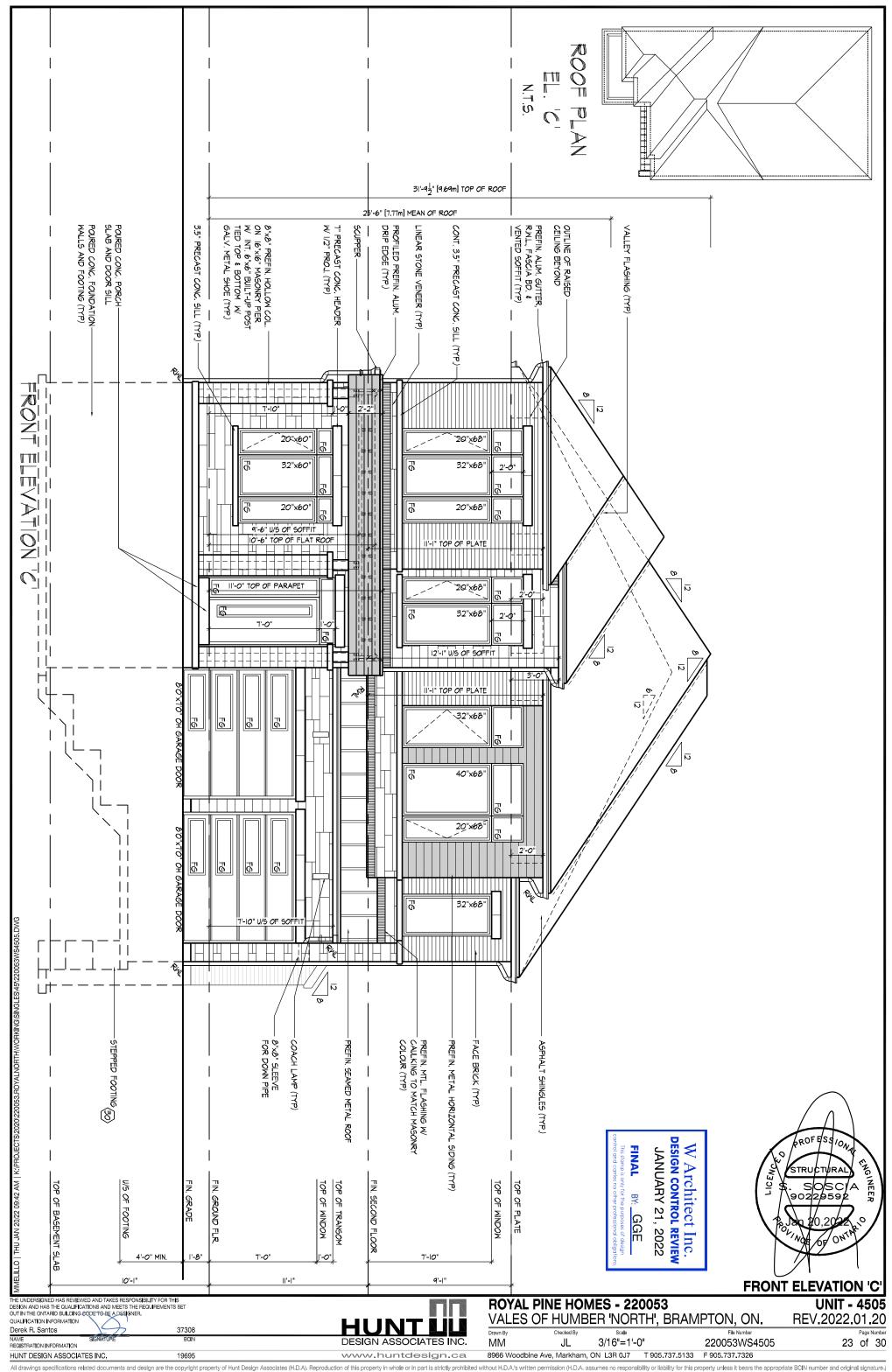
3/16"=1'-0" 220053WS4505 18 of 30 MM JL www.huntdesign.ca 8966 Woodbine Ave, Markham, ON L3R 0J7 T 905.737.5133 F 905.737.7326

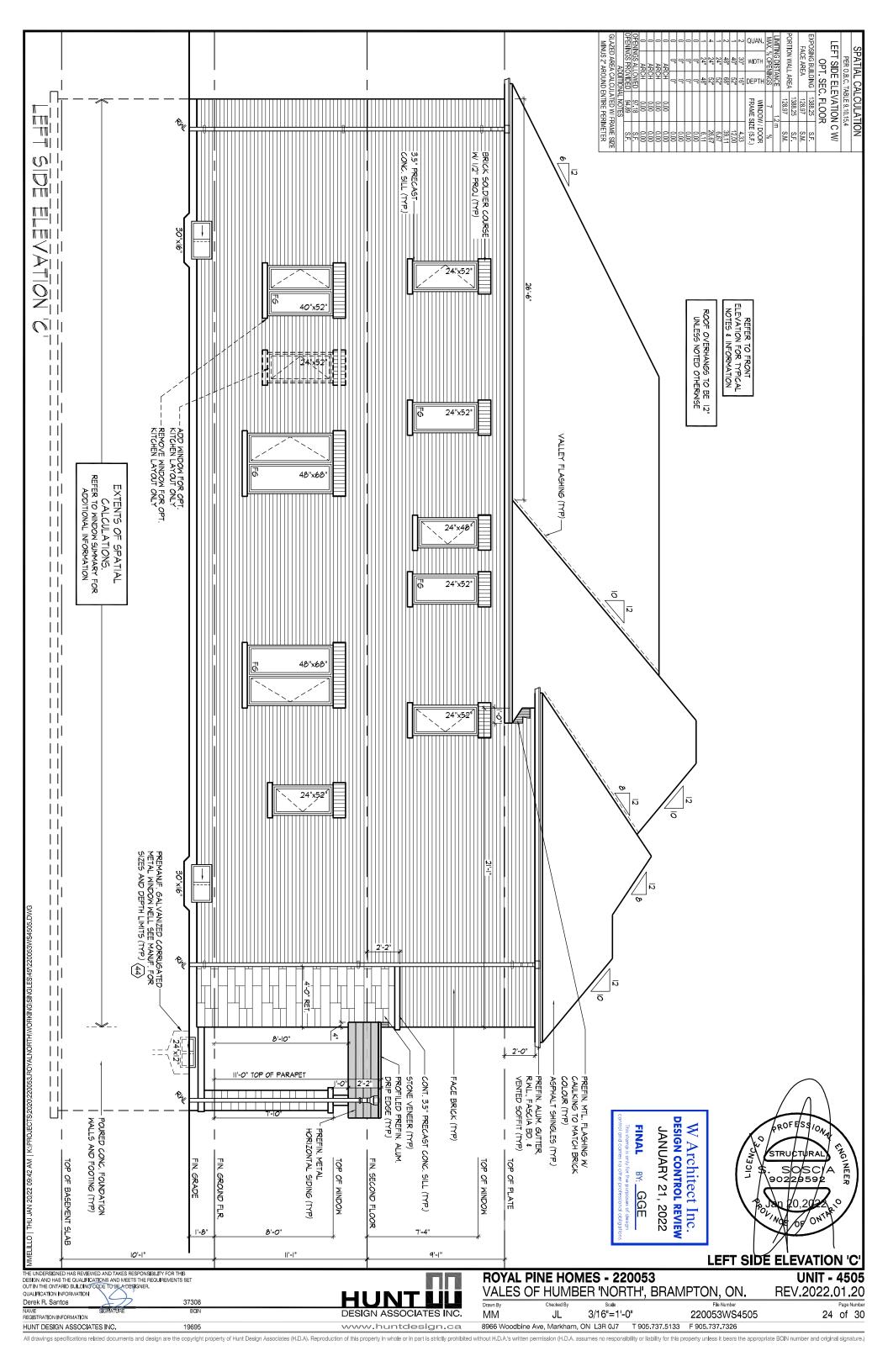


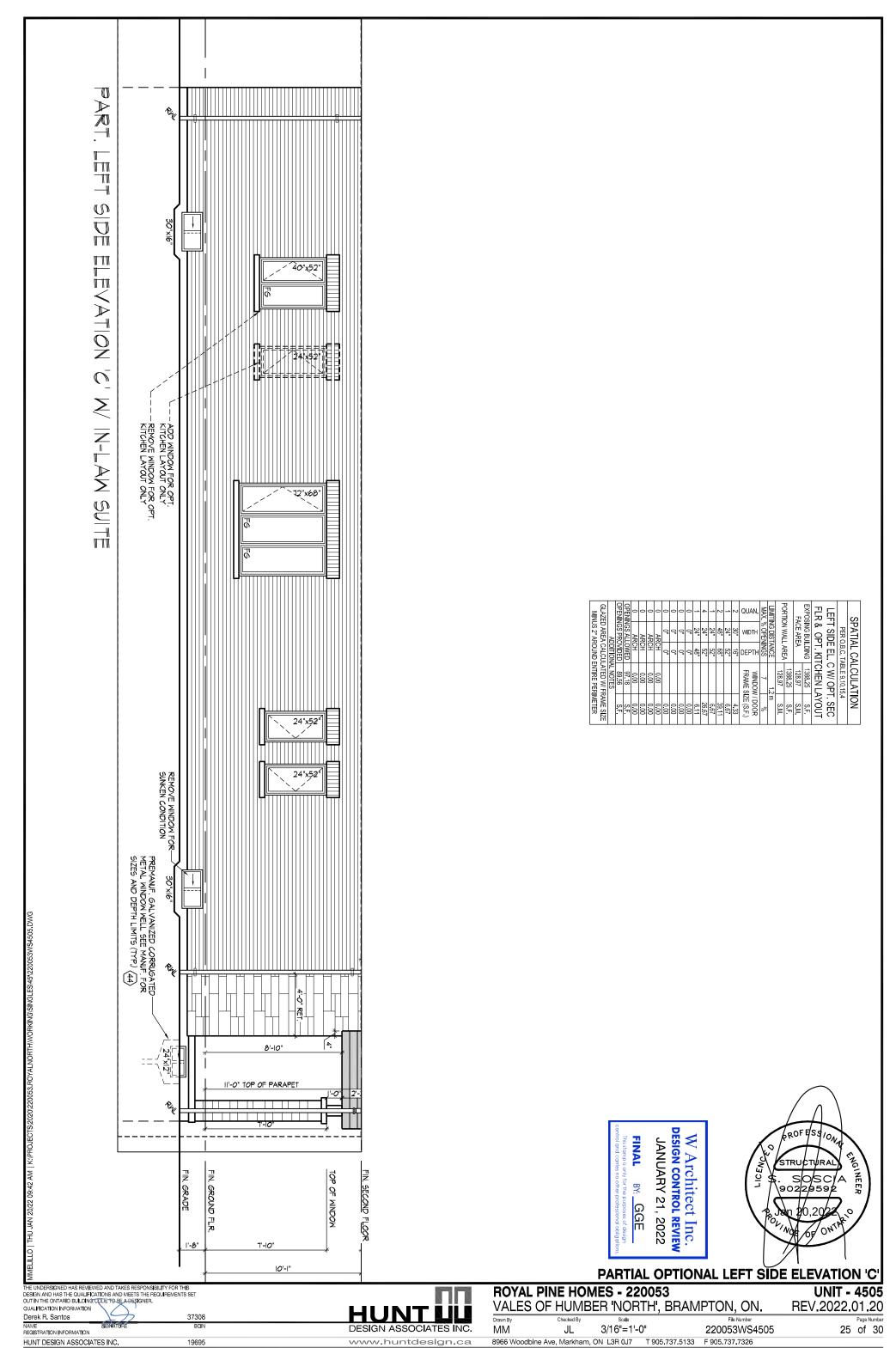




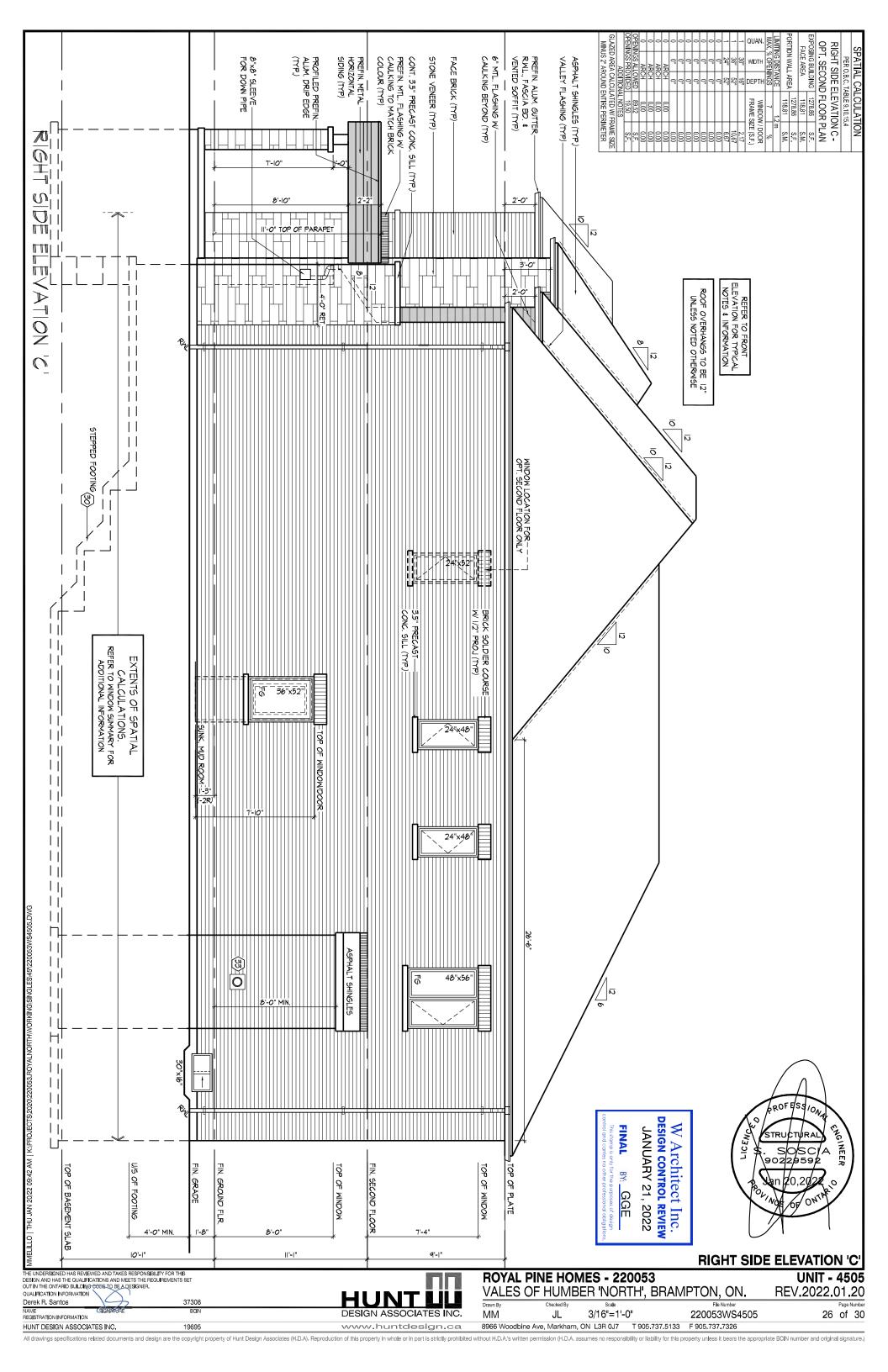


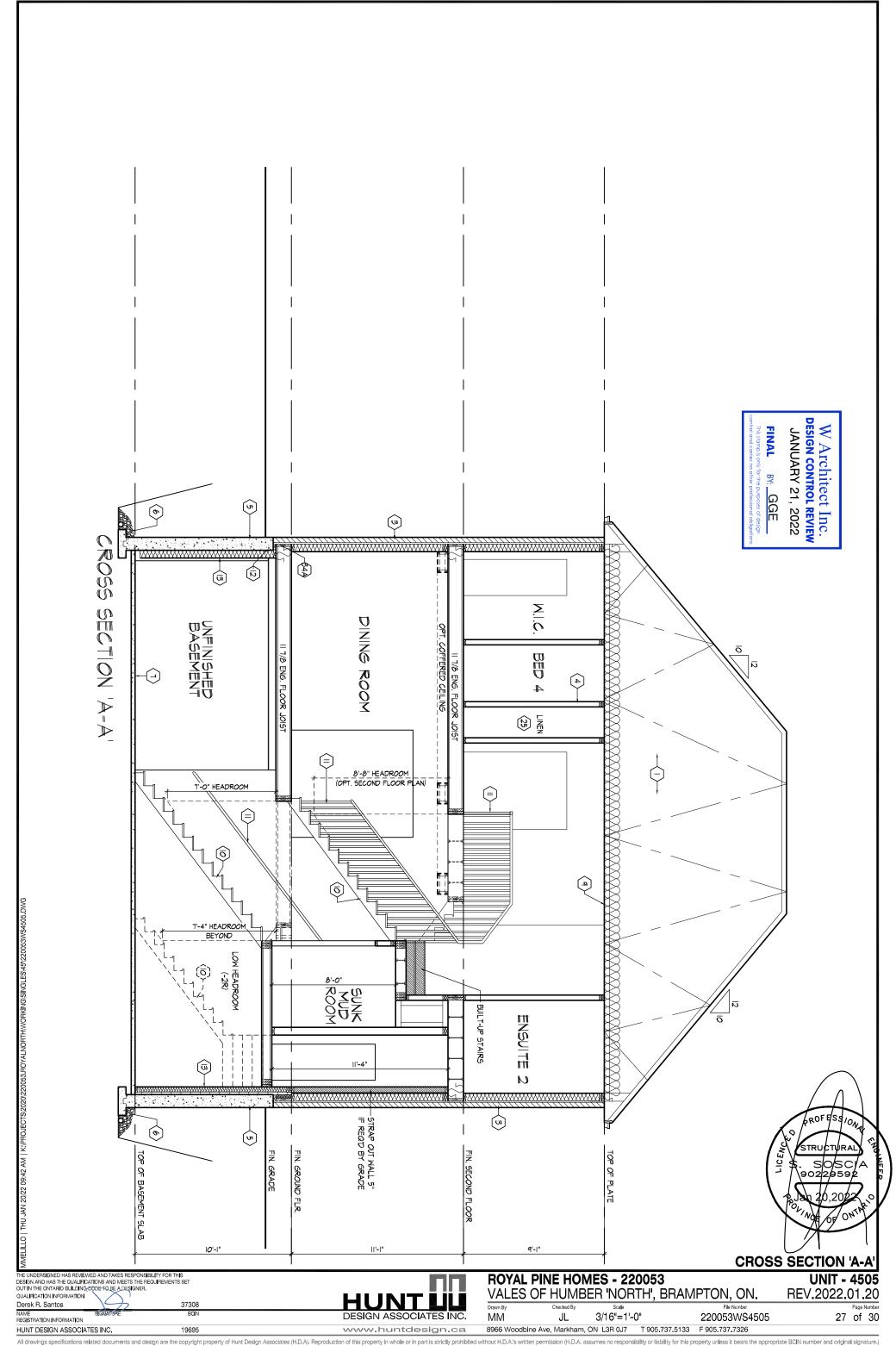


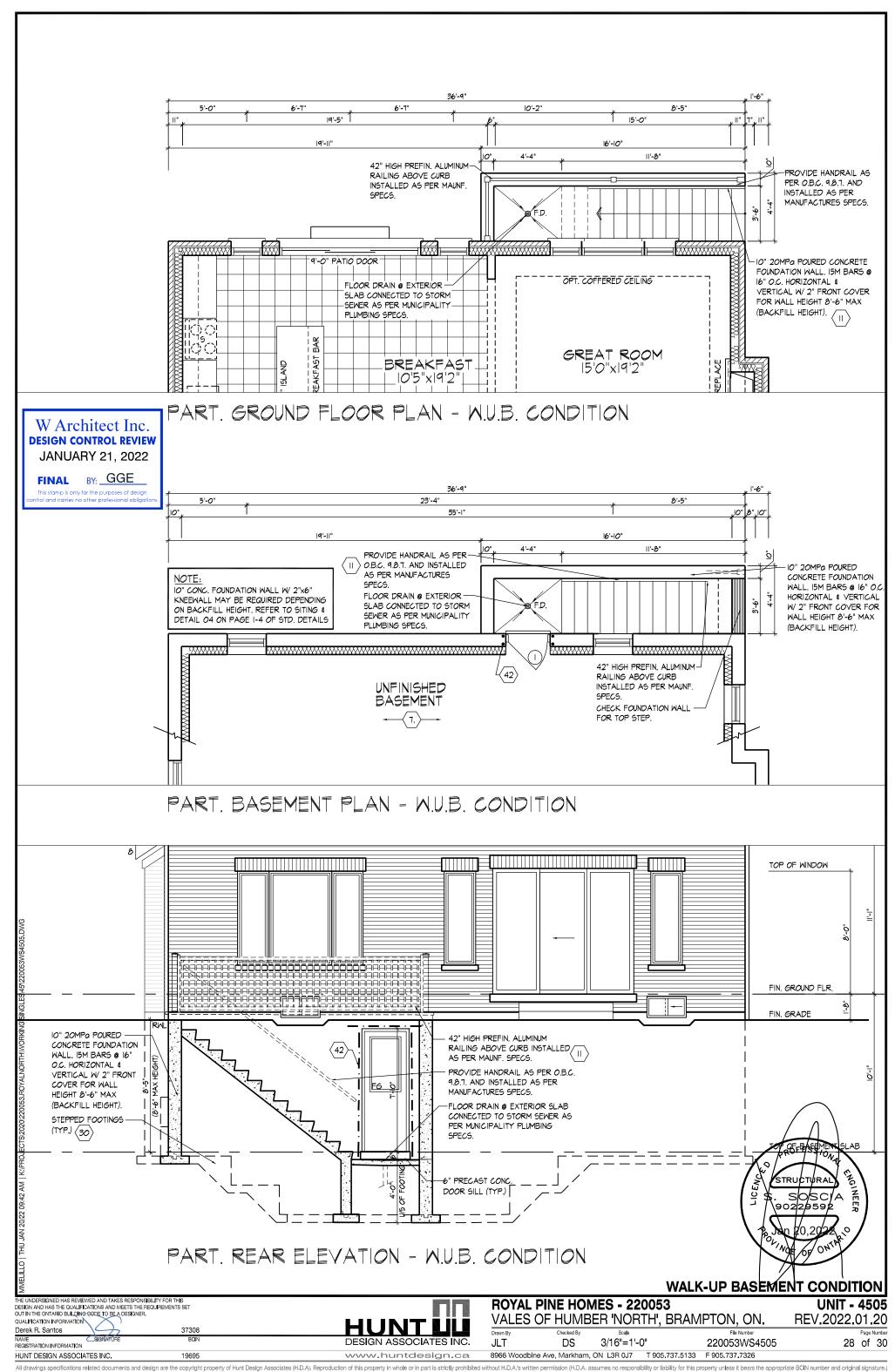




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EAVESTROUGH AND DOWN RWL. **ICE AND WATER SHIELD** 

PROVIDE ICE AND WATER SHIELD IN THE AREAS INDICATED. THE ICE AND WATER SHIELD SHALL BE A SELF ADHERING AND SELF SEALING MEMBRANE. 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).

**PROFILED ROOF TRUSSES** 

ROOF TRUSSES SHALL BE PROFILED AND/OR STEPPED AT RAISED COFFER/TRAY CEILINGS. ANGLED TRAY CEILINGS WILL BE SHEATHED W/ 3/8" (9.5) PLYWOOD.

SIDING WALL CONSTRUCTION (2"x6")

SIDING MATERIAL AS PER ELEVATION ATTACHED TO FRAMING MEMBERS FURRING MEMBERS OR BLOCKING BETWEEN THE FRAMING MEMBERS ON FORHING MEMBERS OR BLOCKING BETWEEN THE PRAIMING MEMBERS ON APPROVED SHEATHING PAPER ON 3/8" (9.5) EXT. GRADE SHEATHING ON STUDS CONFORMING TO O.B.C (9.23.10.1.) & 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.)) (REFER TO 35 NOTE AS REQ.)

SIDING WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION SIDING WATERIAL AS PER ELEVATION ATTACHED TO FURRING MEMBERS ON APPROVED AIRWATER BARRIER AS PER O.B.C. 9.27.3. 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.) & SECTION 1.1., INSULATION, APPROVED 6 MIL POLYETHYLENE AIRWAPOUR 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.)) (REFER TO 35 NOTE AS REQ.)

**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.) & 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.)) (REFER TO 35 NOTE AS REQ.)

**BRICK VENEER WALL CONSTRUCTION (2"x6")** 

3 1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"x7"x0.03" (22x180x0.76) GALV. METAL TIES @ 16" (400) O.C. HORIZ. 24" (600) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.9. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO O.B.C. (9.23.10.1.) & 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)

BRICK VENEER WALL CONSTRUCTION (2"x6") W/ CONTIN. INSULATION 3 1/2" (90) BRICK VENEER WALL CONSTRUCTION (2"X6") W/ CONTIN. INSULATION
3 1/2" (90) BRICK VENEER 1" (25) AIR SPACE, 7/8"X7"X0.03" (22X180X0.76) GALV. METAL
IES @ 16" (400) O.C. HORIZ. 24" (600) O.C. VERT. BONDING AND FASTENING FOR
TIES TO CONFORM WITH 9.20.9. ON APPROVED AIR/WATER BARRIER AS PER O.B.C.
9.27.3. 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 CONTIN. AIR BARRIER.
1/2" (12.7) GYPSUM WALLBOARD INTERIOR FINISH. PROVIDE WEEP HOLES @ 32" (800)
O.C. BOTTOM COLUSES AND OVER OPENINGS. PROVIDE BASE FLASHING ILP MIN. 6" 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)

BRICK VENEER WALL @ GARAGE CONSTRUCTION

3 1/2" (90) BRICK VENEER, MIN. 1" (25) AIR SPACE, 7/8"x7"x0.03" (22x180x0.76) GALV. METAL TIES @ 16" (400) O.C. HORIZ. 24" (600) O.C. VERT. BONDING AND FASTENING FOR TIES TO CONFORM WITH 9.20.9. ON APPROVED SHEATHING PAPER, 3/8" (9.5) EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C. (9.23.10.1.) & 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.)

**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 DEAHING FARITIONS STALE DE A MINIMION 2X4 (38X89) @ 16 (406) U.2. FUR 2 STOREY AND 12\* (305) O.C. FOR 3 STOREY, NON-BEARING PARTITIONS 2\*x4\* (38x89) @ 24\* (610) O.C. PROVIDE 2\*x4\* (38x89) BOTTOM PLATE AND 2-2\*x4\* (2-38x89) TOP PLATE. 1/2\* (1.2.7) INT. DRYWALL BOTH SIDES OF STUDS, POVIDE 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 PARALLEL TO FLOOR JOISTS.

EXT. LOFT WALL CONSTRUCTION (2"x6") - NO CLADDING

 $3/8^{\prime\prime}$  (9.5) EXTERIOR TYPE SHEATHING, STUDS CONFORMING TO 0.B.C (9.23.10.1.) & 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.)

EXT. LOFT WALL CONSTRUCTION (2"x6") NO CLADDING W/ CONTINUOUS INSULATION

APPROVED AIR/WATER BARRIER AS PER O.B.C. 9.27.3. 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.) & 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.)

FOUNDATION WALL/FOOTINGS

POURED CONC. FOUNDATION WALL AS PER CHART BELOW ON CONTINUOUS KEYED CONCRETE FOOTING. FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 6° (150) ABOVE FINISHED GRADE. THE OUTSIDE OF THE FOUNDATION SHALL BE DAMPROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADI 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. AT THE 10P. THE TOP OF THE CONC. FOOTING SHALL BE DAMPHODED.

CONCRETE FOOTINGS SUPPORTING JOIST SPANS GREATER THAN 16-14 (4900)

SHALL BE SIZED IN ACCORDANCE WITH 9.15.3.4 (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 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.)]

	UNREINFORCED SOLID CONCRETE FOUNDATION WALLS (9.15.4.2.)						
표	ESS	MAX	. HEIGHT FROM	FIN. SLAB TO GR	ADE		
STRENGTH	THICKNESS	UNSUPPORTED	SI	JPPORTED AT TO	)P		
턍	崖	AT TOP	≤2.5m	>2.5m & ≤2.75m	>2.75m & ≤3.0m		
ď	<b>*</b> 8"	3'-11" (1.20m)	7'-0" (2.15m)	7'-0" (2.15m)	6'-10" (2.10m)		
₩.	10"	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	8'-2" (2.50m)		
15	12"	4'-11" (1.50m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)		
g	<b>*</b> 8"	3'-11" (1.20m)	7'-6" (2.30m)	7'-6" (2.30m)	7'-2" (2.20m)		
M.	10"	4'-7" (1.40m)	7'-6" (2.30m)	8'-6" (2.60m)	9'-3" (2.85m)		
20	12"	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 JOIST AS PER 9.23.7.2., 9.23.8.1., & 9.23.9.1. OF THE O.B.C.

MINIMUM STRIP FOOTING SIZES (9.15.3.)						
NUMBER FLOORS SUPPORTED	SUPPORTING INT. LOAD BEARING MASONRY WALLS	Support <b>i</b> ng Exter <b>i</b> or	SUPPORTING PARTYWALL			
1	16" WIDE x 6" 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.

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 3 1/2" (90) THICK, THE BRICK VENEER SHALL BE TIED TO THE FOUNDATION WALL WITH CORROSION RESISTANT METAL TIES @ 7 7/8" (200) VERTICAL AND 2-11" (889) HORIZONTAL. FILL VOID WITH MORTAR BETWEEN WALL AND BRICK VENEER (9.15.4.7(2)(3) & 9.20.9.4(3))

**FOUNDATION REDUCTION IN THICKNESS FOR JOISTS** WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO PERMIT THE INSTALLATION OF FLOOR JOISTS, THE REDUCED SECTION SHALL BE NOT MORE THAN 13 3/4" (350) HIGH & NOT LESS THAN 3 1/2" (90) THICK (9.15.4.7(1))

WEEPING TILE (9.14.3.) 4" (100) Ø WEEPING TILE W/ FILTER CLOTH WRAP & 6" (152) CRUSHED STONE COVER

BASEMENT SLAB OR SLAB ON GRADE (9.16.4.) (9.13.) 3" (80) MIN. 25MPa (3600psi) CONC. SLAB ON 4" (100) COARSE GRANULAR FILL OR 20MPa (2900psi) CONC. WITH DAMPPROOFING BELOW SLAB. PROVIDE 1/2" OR 20MF2 (2900B) CONC. WITH DAMPFROUTING BELLOW SLAB. PROVIDE 1/2 (12.7) IMPERMOUS BOARD FOR BOND BREAK AT EDGE. WHERE A 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. ([SB-12] 3.1.1.7.(5) & (6))

EXPOSED FLOOR TO EXTERIOR (9.10.17.10, & CAN/ULC-S705.2) PROVIDE SPRAY FOAM INSULATION BETWEEN CANT. JOIST AND INSTALL OSB CONFIRMING TO 9.29.9. FIN. SOFFIT OR CLADDING AS PER ELEVATION TO U/S OF EXPOSED CANT. JOIST.

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.

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 ROOF TRUSSES), W/ INSULATION BETWEEN JOIST, 6 mil POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM BOARD INT. FINISH OR APPROVED EQ. (CAN/ULC-S705.2, 9.19.1, 9.10.17.10)

**ALL STAIRS/EXTERIOR STAIRS** (9.8.1.2., 9.8.2., 9.8.4.)

,	(********************************								
		MAX. RISE	MIN. F	RISE	MAX. RUN	MIN. RUN	MAX. TREAD	М	N. TREAD
	PRIVATE	7 7/8" (200)	5" (12	25)	14" (355)	8 1/4" (210)	14" (355)	9	1/4" (235)
	PUBLIC	7" (180)	5" (12	25)	NO LIMIT	11" (280)	NO L <b>I</b> M <b>I</b> T		11" (280)
		MIN. STAIR	WIDTH	VIDTH CURVED STA		AIRS	ALL S	TAIF	RS
	PRIVATE	2'-10" (8	60)	N	/IN. RUN	5 7/8" (150)	MAX. NOSIN	G	1" (25)
	PUBLIC	2'-11" (9	00)	MIN	I. AVG. RUN	7 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 6-5" (1950) FOR SINGLE DWELLING UNIT & 6-8 3/4" (2050) FOR EVERYTHING ELSE. (9.8.2.2.)

REQUIRED LANDING IN GARAGE - O.B.C. 9.8.6.2.(3.)
FOR AN EXTERIOR STAIR SERVING A GARAGE W/ MORE THAN 3 RISERS.
GUARDS, HANDRAILS & STEPS AS PER CONSTRUCTION HEX NOTE 10 & 11.

**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. 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. EXTERIOR GUARDS: 2'-11" (900) MIN. (LESS THAN 5'-11" (1800) TO GRADE) 3'-6" (1070) MIN. (MORE THAN 5'-11" (1800) TO GRADE) GUARDS FOR EXIT STAIRS: 3'-0" (920) MIN.

GUARDS FOR LANDINGS @ EXIT STÁIRS: 3'-6" (1070) 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"-6" (1070) HIGH.

BETWEEN WALKING SURFACE & ADJACENT SURFACE WITH A DIFFERENCE IN ELEVATION MORE THAN 23 5/8" (600) OR ADJACENT SURFACE WITHIN 3-11" (12 & WALKING SURFACE W/ A SLOPE MORE THAN 1 IN 12 SHALL BE PROTECTED

WITH GUARDS PER 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" (865)
MAX. HEIGHT AT STAIRS OR RAMP: 3'-2" (965) MAX. HEIGHT AT LANDING: 3'-6" (1070) STAIRS OR RAMP MIN. 7'-3" (2200) WIDE: 2'-9" (865) MIN. HEIGHT

SILL PLATES

2"x4" (38x89) SILL PLATE WITH 1/2" (12.7)Ø ANCHOR BOLTS 8" (200) LONG, EMBEDDED MIN. 4" (100) INTO CONC. @ 7'-10" (2388) O.C., CAULKING OR GASKET BETWEEN PLATE AND TOP OF FOUNDATION WALL. USE NON-SHRINK GROUT TO LEVEL SILL PLATE WHEN REQUIRED (9.23.7.)

**BASEMENT INSULATION** ([SB-12] 3.1.1.7.)

PROVIDE CONTINUOUS BLANKET INSULATION 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.

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 DAMPPROOFING MATERIAL OR 2 mil POLYETHYLENE FILM, 1/2" (12.7) Ø ANCHOR BOLTS 8" (200) LONG, EMBEDDED 4" (100) MIN. INTO CONC. @ 7'-10" (2390) O.C. 4" (100) HIGH CONC. CURB ON CONC. FOOTING, FOR SIZE REFE TO HEX NOTE 5. ADD HORIZ, BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.

ADJUSTABLE STEEL BASEMENT COLUMN (9.15.3.4.) 9-10" (3000) MAX. SPAN BETWEEN COLUMNS. 3 1/2" (90)Ø SINGLE TUBE ADJUSTABLE STEEL COLUMN CONFORMING TO CAN/CGSB-7.2M, 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 SOILS 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

NON-ADJUSTABLE STEEL BASEMENT COLUMN

3 1/2" (90)0 x 0.188" (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 SOILS REPORT.

SUPPORTING 2 STOREY FLR. LOAD PROVIDE 42"x42"x18" (1070x1070x460) CONC. FOOTING SUPPORTING 3 STOREY FLR, LOAD PROVIDE 48"x48"x24" (1220x1220x610) CONC, FOOTING

NON-ADJUSTABLE STL. COLUMN AT FOUNDATION WALL

3 1/2" (90)Ø x 0.188" (4.78) NON-ADJUSTABLE STEEL COLUMN WITH 6"x6"x3/8 (152x152x9.5) STEEL TOP PLATE & 6"x4"x3/8" (152x100x9.5) BOTTOM PLATE. BASE PLATE 4-1/2"x10"x1/2" (120x250x12.7) WITH 2- 1/2"Ø x 12" LONG x 2" HOOK ANCHORS (2- 12.7Øx305x50). FIELD WELD COLUMN TO BASE PLATE & STEEL BM.

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). CONC. NIB WALLS TO HAVE EXTENDED FOOTINGS

**WOOD STRAPPING AT STEEL BEAMS** (9.23.4.3.(3.), 9.23.9.3.) 1"x3" (19x64) CONTIN. WOOD STRAPPING BOTH SIDES OF STEEL BEAM.

**GARAGE SLAB** (9.16., 9.35.)  $\langle$  18 $\rangle$ 

 $\overline{4^*}$  (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.

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, CAN/ULC-S705.2)

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, CAN/ULC-S705.2)

**GARAGE DOOR TO HOUSE** (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.

**EXTERIOR AND GARAGE STEPS** 

PRECAST CONC. STEP OR WOOD STEP WHERE NOT EXPOSED TO WEATHER. MAX RISE 7 7/8" (200), MIN. TREAD 9 1/4" (235). FOR THE REQUIRED NUMBER OF STEPS REFER TO SITING AND GRADING DRAWINGS. EXTERIOR CONCRETE STAIRS WITH MORE THAN 2 RISERS AND 2 TREADS SHALL BE PROVIDED WITH FOUNDATION AS REQUIRED BY ARTICLE 9.8.9.2. OR SHALL BE CANTILEVERED AS PER SUBSECTION 9.8.10.

22 DRYER EXHAUST

CAPPED DRYER EXHAUST VENTED TO EXT. CONFORMING TO PART 6, OBC 9.32.

ATTIC ACCESS (9.19.2.1.) ATTIC ACCESS HATCH WITH MIN. AREA OF 0.32m2 AND NO DIM. LESS

THAN 21 1/2" (545) WITH WEATHER STRIPPING. HATCHWAYS TO THE ATTIC OR ROOF SPACE WILL BE FITTED WITH DOORS OR COVERS AND WILL BE INSULATED WITH MIN. R20 (RSI 3.52) ([SB-12] 3.1.1.8.(1)) FIREPLACE CHIMNEYS (9.21.)

TOP OF FIREPLACE CHIMNEY SHALL BE 2'-11" (889) ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 2'-0" (610) ABOVE THE ROOF SURFACE WITHIN A HORIZ. DISTANCE OF 10'-0" (3048) FROM THE CHIMNEY

25 LINEN CLOSET

PROVIDE 4 SHELVES MIN. 14" (356) DEEP.

MECHANICAL VENTILATION (9.32.1.3.)  $\langle$  26 $\rangle$ MECHANICAL EXHAUST FAN, VENTED TO EXTERIOR, TO PROVIDE AT LEAST

ONE AIR CHANGE PER HOUR. SEE GENERAL NOTE 2.3. PARTY WALL BEARING (9.23.8) 12"x12"x5/8" (305x305x15.9) STEEL PLATE FOR STEEL BEAMS AND 12"x12"x1/2"

(305x305x12.7) STEEL PLATE FOR WOOD BEAMS BEARING (MIN. 3-1/2" (89)) ON CONC. BLOCK PARTY WALL, ANCHORED WITH 2-3/4" (2-19) x 8" (200) LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL W/ NON-SHRINK GROUT. REFER TO NOTE SOLID BEARING (SECTION 3.0) FOR WD. STUD PARTY WALL.

WOOD FRAMING IN CONTACT TO CONCRETE WOOD BEARING WALLS. THE UNDERSIDE OF BUILT-UP WOOD POSTS AND

SILLS SHALL BE WRAPPED WITH 2 mil POLY. STRIP FOOTINGS SUPPORTING THE FOUNDATION WALL SHALL BE WIDENED 6" (152) BELOW THE BEARING WALL AND/OR WOOD POST. (9.17.4.3.)

**BUILT-UP WOOD POST AND FOOTING** (9.17.4.1., 9.15.3.7.) 3-2"x6" (3-38x140) BUILT-UP WOOD POST (UNLESS OTHERWISE NOTED) ON METAL BASE SHOE ANCHORED TO CONC. WITH 1/2" (12.7) Ø BOLT, 24"x24"x12" (610x610x305) CONC. FOOTING OR AS PROVIDED ON PLAN. REFER TO NOTE 28

**STEP FOOTINGS** (9.15.3.9.)

MIN. HORIZ. STEP = 23 5/8" (600). MAX. VERT. STEP = 23 5/8" (600).

CONC. PORCH SLAB (9.16.4.)

MIN. 4" (100) CONCRETE SLAB ON GRADE ON 4" (100) COARSE GRANULAR FILL, REINFORCED WITH 6x6xW2.9xW2.9 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 TO BE A MIN. OF 6'-0" (1830) FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE.

FIREPLACE VENTING (9.32.3.) DIRECT VENT GAS FIREPLACE VENT TO BE A MIN. 12" (305) FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.

FLOOR FRAMING (9.23.3.5., 9.23.9.4., 9.23.14.)
TAG 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 SOLID BLOCKING @ 6"-11" (2108) O.C. MAX, ALL JOISTS TO BE STRAPPED WITH 1"x3" (19x64) @ 6"-11" (2108) O.C. UNLESS A DAMEL TYPE CELLING EINISH IS APPLIED. PANEL TYPE CEILING FINISH IS APPLIED.

**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.

EXPOSED BUILDING FACE w/ LIMITING DISTANCE <= 3'-11" (1.20m) WALL ASSEMBLY CONTAINS INSULATION CONFORMING TO CAN/ULC.-\$702 & 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" (0.60m) OR LESS. WALL ASSEMBLY REQUIRES TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 MINUTES & CONFORMING TO 0.B.C. (9.10.14. OR 9.10.15). REFER TO DETAILS FOR TYPE & SPECS. \*\* AN OPENING IN AN EXPOSING BUILDING FACE NOT MORE THAN 20 in (130cm²) SHALL NOT BE CONSIDERED AN UNPROTECTED OPENING AS PER 91.0146.

COLD CELLAR PORCH SLAB (9.39.)

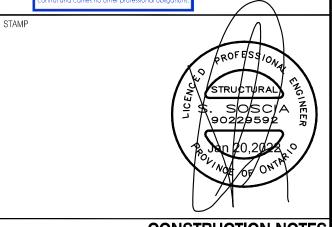
FOR MAX. 8'-2" (2500) PORCH DEPTH, 5" (127) 32 MPa (4640psi) CONC. SLAB W/5-8% AIR ENTRAINMENT. REINF. WITH 10M BARS @ 7 7/8" (200) O.C. EACH DIRECTION, W/ 1 1/4" (32) CLEAR COVER FROM BOTTOM OF SLAB TO FIRST LAYER OF BARS & SECOND LAYER OF BARS LAD DIRECTLY ON TOP OF LOWER LAYER IN OPPOSITE DIR. 24'x24" (610x610) 10M DOWELS @ 23 5/8" (600) O.C., ANCHORED IN PERIMETER FND. WALLS. SLOPE SLAB 1.0% FROM DOOR.

**RANGE HOODS AND RANGE-TOP FANS** 

COOKING APPLIANCE EXHAUST FANS VENTED TO EXTERIOR MUST CONFORM TO OBC 9.10.22, 9.32.3.9. & 9.32.3.10.

CONVENTIONAL ROOF FRAMING (9.23.13., 9.23.15.) 2"x6" (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. 9'-3" (2819) SPAN & 2"x6" (38x140) @ 16" (406) O.C. FOR MAX. SPAN 14'-7" (4450). 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.





**CONSTRUCTION NOTES** 

**UNIT - 4505** 

29 of 30

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 DESIGN ASSOCIATES INC. REGISTRATION INFORMATION

**ROYAL PINE HOMES - 220053** 

VALES OF HUMBER 'NORTH', BRAMPTON, ON. REV.2022.01.20

MM JL 3/16"=1'-0" 220053WS4505 8966 Woodbine Ave, Markham, ON L3R 0J7 T 905,737,5133 F 905,737,7326

)	(0.20.10.1., 0.20.10.)							
•	WALL ASSEMBLY			WIND LOADS				
	EXTERIOR	STUDS	<= 0.5	<= 0.5 kPA (q50)		> 0.5 kPa (q50)		
	EXTENION	51005	SPACING	MAX HEIGHT	SPACING	MAX HEIGHT		
	BRICK	2-2"x6" (2-38x140)	12" (305) O.C.	18'-4" (5588)	8" (200) O.C.	18'-4" (5588)		
	SIDING	SPR.#2	16" (406) O.C.	18'-4" (5588)	12" (305) O.C.	18'-4" (5588)		
	BRICK	2-2"x8" (2-38x184)	12" (305) O.C.	21'-0" (6400)	12" (305) O.C.	21'-0" (6400)		
	SIDING	SPR.#2	16" (406) O.C.	21'-0" (6400)	16" (406) O.C.	21'-0" (6400)		
	** STUD SIZE & SPACING TO BE VERIFIED BY STRUCTURAL ENGINEER **							

STUDS ARE TO BE CONTINUOUS, C/W 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'-6" (2896) PROVIDE 2"x6" (38x140) STUDS @ 16" (406) O.C. WITH CONTIN. 2-2"x6" (2-38x140) TOP PLATE + 1-2"x6" (1-36x140) BOTTOM PLATE & MIN. OF 3-2"x8" (3-38x184) CONT. HEADER AT GROUND FLOOR CEILING LEVEL TOE-NAILED & GLUED AT TOP, BOTTOM PLATES & HEADERS.

40) 1 HR. PARTY WALL (CONC. BLOCK) ([SB-3] WALL TYPE 'B6e' & 'B1b') 1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"x2" (38x38) VERTICAL WD. STRAPPING @ 24" (610) O.C. ON 8" (200) CONC. BLOCK FILL STRAPPING CAVITY EACH SIDE WITH A 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) WD. STRAPPING & 1/2" (12.7) GYPSUM SHEATHING.

1 HR. PARTY WALL (DOUBLE STUD) ([SB-3] WALL TYPE W13c') ′40 \ 5/8" (15.9) TYPE 'X' GYPSUM SHEATHING ON EXTERIOR SIDE OF 2 ROWS OF 9.08 (18.9) TITE A GIFSOM OF LATINING ON EATERICATION OF ZENOR OF ZENOR (28.84) STUDS @ 16" (406) O.C., MIN. 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.

2 HR. FIREWALL ([SB-3] WALL TYPE 'B6e' & 'B1b')

1/2" (12.7) GYPSUM SHEATHING ON EACH SIDE ON 2"X2" (38x38) VERTICAL WOOD STRAPPING @ 24" (610) O.C ON 8" (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)

STUCCO WALL CONSTRUCTION (2"x6") STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.I.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), A SECTION 1.1, INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)

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 1/2\* (38) E.I.F.S. (MINIMUM) ON APPROVED DRAINAGE MAT ON APPROVED AIRWATER BARRIER AS PER O.B.C. 9.27.3. ON EXTERIOR TYPE RIGID INSULATION (JOINTS UNITAPED) MECHANICALLY FASTENED AS PER MANUFACTURER'S SPECIFICATIONS, ON 7/16\* EXTERIOR TYPE SHEATHING ON STUDS CONFORMING TO O.B.C (9.23.10.1.) & SECTION 1.1. INSULATION, APPROVED 6 MIL. POLYETHYLENE VAPOUR BARRIER, 1/2" (12.7) GYPSUM WALLBOARD INT. FINISH. (REFER TO 35 NOTE AS REQUIRED)

STUCCO WALL @ GARAGE CONST. **41B** STUCCO WALL @ GARAGE CONST.

STUCCO FINISH CONFORMING TO O.B.C. SECTION 9.28. AND APPLIED PER MANUFACTURERS SPECIFICATIONS OVER 1 1/2" (38) E.F.I.S (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS GOLD GYPSUM BRD. ON STUDS CONFORMING TO O.B.C (9.23.10.1.) & SECTION 1.1., 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 7/16" (11) EXTERIOR TYPE SHEATHING OVER FURRING (AS REQ.) AND STUDS IN LIEU OF 1 1/2" (38) E.F.I.S (MINIMUM) ON APPROVED DRAINAGE MAT ON 1/2" (12.7) DENSGLASS GOLD GYPSUM BRD.

**UNSUPPORTED FOUNDATION WALLS** (9.15.4.2.) REINFORCING AT STAIRS AND SUNKEN FLOOR AREAS
2-20M 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 BASEMENT WINDOWS

2-15M HORIZ. REINFORCING ON THE INSIDE AND OUTSIDE FACE OF THE FOUNDATION WALL BELOW THE WIN. 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. 1" (25) CONC. COVER - BARS TO EXTEND 2'-0" (610) BEYOND BOTH SIDES OF OPENING

STUD WALL REINFORCEMENT **43**) PROVIDE STUD WALL REINFORCEMENT IN MAIN BATHROOM CONFORMING TO O.B.C. (9.5.2.3.(1)) (REFER TO DETAILS)

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BALCONY CONDITION

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

REGISTRATION INFORMATION

WINDOW WELLS WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEARANCE OF NOT WHERE A WINDOW OPENS INTO A WINDOW WELL, A CLEAR-MIDDOW.
LESS THAN 21 5/8" (505) 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 C/W A FILTER
CLOTH WRAP AND FILLED WITH CRUSHED STONE. (9.9.10.1.(5), 9.14.6.3.)

SLOPED CEILING CONSTRUCTION ([SB-12] 3.1.1.8., 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 (3.52 RSI).

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) PURLINS ANGLED TOWARDS SCUPPER @ 2% MINIMUM LAID PERPENDICULAR TO 2"x8" (38x184) FLOOR JOISTS @ 16" (406) O.C. (UNLESS OTHERWISE NOTED). BUILT UP CURB TO BE 4" (100) MIN. ABOVE FINISHED BALCONY FLOOR. CONTINUOUS "L'TRIM DRIP EDGE 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 SOFETT (9.23 2.3). BEMOVE CIUR WHERE BEO PANEL FOR UNDERSÎDE OF SOFFIT (9.23.2.3). REMOVE CURB WHERE REQ.

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 BOOF/BALCONY CONSTRUCTION NOTE FOR ASSEMBLY, REFER TO LANS FOR FLOOR JOIST SIZE & REFER TO HEX NOTE 9 FOR INSULATION AND

INTERIOR FINISH BARREL VAULT CONSTRUCTION

CANTILEVERED 2"x4" (38x89) SPACERS LAID FLAT ON 2"x10" (38x235) SPR. #2 ROOF JOIST NAILED TO BUILT-UP 3-3/4" (19) PLYWOOD HEADER PROFILED FOR BARREL. SPRAY FOAM INSULATION BETWEEN JOISTS W/ GYPSUM BOARD. INTERIOR FIN. (REFER TO DETAILS)

37308

### 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 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.

SIZE & SPACING OF STUDS: (OBC REFERENCE - TABLE 9.23.10.1.)						
MIN.		SUPPORTED LO	ADS (EXTERIOR)			
STUD SIZE,	ROOF w/ OR w/o ATTIC	ROOF w/ OR w/o ATTIC & 1 FLOOR	ROOF w/ OR w/o ATTIC & 2 FLOOR	ROOF w/ OR w/o ATTIC & 3 FLOOR		
in (mm)	MAX. STUD SPACING, in (mm) O.C.					
()	MAX. UNSUPPORTED HGT., ft-in (m)					
2"x4"	24" (610)	16" (405)	12" (305)	N/A		
(38x89)	9'-10" (3.0)	9'-10" (3.0)	9'-10" (3.0)	N/A		
2"x6"	-	24" (610)	16" (406)	12" (305)		
(38x140)	-	9'-10" (3.0)	11'-10" (3.6)	5'-11" (1.8)		

#### **SECTION 2.0. GENERAL NOTES**

1) EXCEPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE BEDROOM PROVIDES DIRECT ACCESS TO THE EXTERIOR, EVERY FLOOR LEVEL CONTAINING A BEDROOM IS TO HAVE AT LEAST ONE OUTSIDE WINDOW W/ MIN. 0.35m2 UNOBSTRUCTED OPEN PORTION W/ NO DIMENSION LESS THAN 1'-3" (380), CAPABLE OF MAINTAINING THE OPENING WITHOUT THE NEED FOR ADDITIONAL SUPPORT, CONFORMING TO 9.9.10. 2) WINDOW GUARDS: A GUARD OR A WINDOW WITH A MAXIMUM RESTRICTED OPENING WIDTH OF 4" (100) IS REQUIRED WHERE THE TOP OF THE WINDOW SILL IS LOCATED LESS THAN 1'-7" (480) ABOVE FIN. FLOOR AND THE DISTANCE FROM THE FINISHED FLOOR TO THE ADJACENT GRADE IS GREATER THAN 5'-11" (1800). (9.8.8.1.) 3) WINDOWS IN EXIT STAIRWAYS THAT EXTEND TO LESS THAN 2'-11" (900) [3'-6" (1070) FOR ALL OTHER BUILDINGS] SHALL BE PROTECTED BY GUARDS IN ACCORDANCE WITH NOTE #2 (ABOVE). OR THE WINDOW SHALL BE NON-OPERABLE AND DESIGNED TO WITHSTAND THE SPECIFIED LOADS FOR BALCONY GUARDS AS PROVIDED IN 4.1.5.15 OR 9.8.8.2

4) REFER TO TITLE PAGE FOR MAX. U-VALUE REQUIREMENTS

2.2. CEILING HEIGHTS

THE CEILING HEIGHTS OF ROOMS AND SPACES SHALL CONFORM TO TABLE 9.5.3.1.

ROOM OR SPACE	MINIMUM HEIGHTS
LIVING ROOM, DINING ROOM AND KITCHEN	7'-7" OVER 75% OF REQUIRED FLOOR AREA WITH A CLEAR HEIGHT OF 6'-11" AT ANY POINT
BEDROOM	7'-7" OVER 50% OF REQUIRED FLOOR AREA OR 6'-11" OVER ALL OF THE REQUIRED FLOOR AREA.
BASEMENT	6'-11" OVER AT LEAST 75% OF THE BASEMENT AREA EXCEPT THAT UNDER BEAMS AND DUCTS THE CLEARANCE IS PERMITTED TO BE REDUCED TO 6'-5".
BATHROOM, LAUNDRY AREA ABOVE GRADE	6'-11" IN ANY AREA WHERE A PERSON WOULD NORMALLY BE STANDING
FINISHED ROOM NOT MENTIONED ABOVE	6'-11"
MEZZANINES	6'-11" ABOVE & BELOW FLOOR ASSEMBLY (9.5.3.2.)
STORAGE GARAGE	6'-7" (9.5.3.3.)

2.3. MECHANICAL / PLUMBING

1) MECHANICAL VENTILATION IS REQUIRED TO PROVIDE 0.7 AIR CHANGE PER HOUR IF NOT AIR CONDITIONED 1 PER HOUR IF AIR CONDITIONED AVERAGED OVER 24 HOURS. WHEN A VENTILATION FAN (PRINCIPAL EXHAUST) IS REQUIRED, CONFORM TO ORDER AND A MENTILATION FAN (PRINCIPAL EXHAUST) IS REQUIRED, CONFORM TO ORDER AND AND A MENTILATION FAN (PRINCIPAL EXHAUST) IS REQUIRED. TO OBC 9.32.3.4. WHEN A HRV IS REQUIRED, CONFORM TO 9.32.3.11. REFER TO MECHANICAL DRAWINGS.

2) REFER TO HOT WATER TANK MANUFACTURER SPECS. CONFORM TO OBC 9.31.6. 3) REFER TO TITLE PAGE FOR SPACE HEATING EQUIPMENT, HRV AND DOMESTIC HOT WATER HEATER MINIMUM EFFICIENCIES.

4) DRAIN WATER HEAT RECOVERY UNIT(S) WILL BE INSTALLED CONFORMING TO THE REQUIREMENTS OF SB12 - 3.1.1.12. OF THE O.B.C.

2.4. LUMBER

1) ALL LUMBER SHALL BE SPRUCE No.2 GRADE OR BETTER, UNLESS NOTED OTHERWISE. 2) STUDS SHALL BE STUD GRADE SPRUCE UNLESS NOTED OTHERWISE.

3) LUMBER EXPOSED TO THE EXTERIOR TO BE SPRUCE No. 2 GRADE PRESSURE TREATED OR CEDAR, UNLESS NOTED OTHERWISE.

4) ALL LAMINATED VENEER LUMBER (LVL) BEAMS, GIRDER TRUSSES, AND METAL HANGER CONNECTIONS SUPPORTING ROOF FRAMING TO BE DESIGNED & CERTIFIED BY FLOOR AND ROOF TRUSS MANUFACTURER.

5) JOIST HANGERS: PROVIDE APPROVED METAL HANGERS FOR ALL JOISTS AND BUILT-UP WOOD MEMBERS INTERSECTING WITH FLUSH BUILT-UP WOOD MEMBERS. 6) WOOD FRAMING NOT TREATED WITH A WOOD PRESERVATIVE, IN CONTACT WITH CONCRETE, SHALL BE SEPARATED FROM THE CONC. BY AT LEAST 2 mil POLYETHYLENE FILM, No.50 (45lbs) ROLL ROOFING OR OTHER DAMPPROOFING MATERIAL, EXCEPT WHERE THE WOOD MEMBER IS AT LEAST 6" (152) ABOVE THE GROUND.

**2.5. STEEL** (9.23.4.3.)

T) STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40-21 GRADE 350W. HOLLOW STRUCT. SECTIONS SHALL CONFORM TO CAN/CSA-G40-21 GRADE 350W CLASS "H". 2) REINFORCING STEEL SHALL CONFORM TO CSA-G30-18M GRADE 400R.

2.6. FLAT ARCHES

1) FOR 8'-0" (2440) CEILINGS, FLAT ARCHES SHALL BE 6'-10" (2080) A.F.F. 2) FOR 9'-0" (2740) CEILINGS, FLAT ARCHES SHALL BE 7'-10" (2400) A.F.F. 3) FOR 10'-0" (3040) CEILINGS, FLAT ARCHES SHALL BE 8'-6" (2600) A.F.F.

2.7. ROOF OVERHANGS

L ROOF OVERHANGS SHALL BE 1'-0" (305). UNLESS NOTED OTHERWISE.

2.8. FLASHING (9.20.13., 9.26.4. & 9.27.3.) 1) FLASHING MATERIALS & INSTALLATION SHALL CONFORM TO O.B.C.

**2.9. GRADING**1) THE BUILDING SHALL BE LOCATED OR THE BUILDING SITE GRADED SO THE WATER WILL NOT ACCUMULATE AT OR NEAR THE BUILDING AND WILL NOT ADVERSELY AFFECT ADJACENT PROPERTIES. CONFORM TO 9.14.6.

2.10. ULC SPECIFIED ASSEMBLIES

ALL REQUIRED INDIVIDUAL COMPONENTS THAT FORM PART OF ANY "ULC LISTED ASSEMBLY", SPECIFIED WITHIN THESE DRAWINGS, CANNOT BE ALTERED OR SUBSTITUTED FOR ANY OTHER MATERIAL/PRODUCT OR SPECIFIED MANUFACTURER THAT IS IDENTIFIED IN THAT 'SPECIFIED ULC LISTING'. THERE SHALL BE NO DEVIATIONS UNDER ANY CIRCUMSTANCES IN ANY 'ULC LISTED ASSEMBLY' IDENTIFIED IN THESE DRAWINGS.

### **SECTION 3.0. LEGEND**

3-1 3/4"x9 1/2"

LVL5

LVL8

3.1. WOOD LINTELS AND BUILT-UP WOOD (DIVISION B PART 9. TABLES A8 TO A10 AND A12, A15 & A16)

FORMING PART OF SENTENCE 9.23.4.2.(3), 9.23.4.2.(4), 9.23.12.3.(1),(3), 9.23.13.8.(2), 9.37.3.

2"x8" SPRUCE #2 2"x10" SPRUCE #2 2"x12" SPRUCE #2 STAMP 2/2"x8" (2/38x184) 2/2"x10" (2/38x235) 2/2"x12" (2/38x286) L5 3/2"x8" (3/38x184) ВЗ 3/2"x10" (3/38x235) 3/2"x12" (3/38x286) В5 4/2"x8" (4/38x184) 4/2"x10" (4/38x235) 4/2"x12" (4/38x286) 5/2"x8" (5/38x184) B7 B8 5/2"x10" (5/38x235) В9 5/2"x12" (5/38x286) ENGINEERED LUMBER SCHEDULE 1 3/4" x 9 1/2" LVL 1 3/4" x 11 7/8" LVL 1 3/4" x 14" LVL 1-1 3/4"x9 1/2" 1-1 3/4"x11 7/8" LVL10 1-1 3/4"x14" VL11 2-1 3/4"x14" I VI 4 2-1 3/4"x9 1/2" LVL6 2-1 3/4"x11 7/8"

#### 4-1 3/4"x9 1/2" LVL9 4-1 3/4"x11 7/8" LVL13 3.2. STEEL LINTELS SUPPORTING MASONRY VENEER (DIVISION B PART 9. TABLE 9.20.5.2.B.) FORMING PART OF SENTENCE 9.20.5.2.(2) & 9.20.5.2.(3)

3-1 3/4"x11 7/8"

LVL7

CODE	SIZE	BRICK	STONE
L7	3 1/2" x 3 1/2" x 1/4" (89 x 89 x 6.4)	8'-1" (2.47m)	7'-6" (2.30m)
L8	4" x 3 1/2" x 1/4" (102 x 89 x 6.4)	8'-9" (2.66m)	8'-1" (2.48m)
L9	4 7/8" x 3 1/2" x 5/16" (127 x 89 x 7.9)	10'-10" (3.31m)	10'-1" (3.03m)
L10	4 7/8" x 3 1/2" x 3/8" (127 x 89 x 11)	11'-5" (3.48m)	10'-7" (3.24m)
L11	5 7/8" x 3 1/2" x 3/8" (152 x 89 x 11)	12'-6" (3.82m)	11'-7" (3.54m)
L12	7 1/8" x 4" x 3/8" (178 x 102 x 11)	14'-1" (4.30m)	13'-1" (3.99m)

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. 3.3. DOOR SCHEDULE CONFORMING TO SECTIONS 9.5.11, 9.6., 9.7.2.1, 9.7.5.2, & 9.10.13.10 EXTERIOR | 2'-8" x 6'-8" x 1-3/4" (815 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) 2'-10" x 6'-8" x 1-3/4" (865 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) 1A 1B EXTERIOR 3'-0" x 6'-8" x 1-3/4" (915 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) 1C EXTERIOR 2'-6" x 6'-8" x 1-3/4" (760 x 2030 x 45) INSULATED MIN. R4 (RSI 0.7) 1D **EXTERIOR** 2'-8" x 6'-8" x 1-3/4" (815 x 2030 x 45) INS. MIN. R4 (RSI 0.7) (SEE HEX NOTE 20) 3'-0" x 8'-0" x 1-3/4" (915 x 2440 x 45) INSULATED MIN. R4 (RSI 0.7) 1E **EXTERIOR** 1F EXTERIOR 2'-8" x 8'-0" x 1-3/4" (815 x 2440 x 45) INSULATED MIN. R4 (RSI 0.7) 2A 2'-8" x 6'-8" x 1-3/4" (815 x 2030 x 45) 20 MIN, F.R.R. DOOR/FRAME WITH APP, SELF CLOSING DEVICE EXTERIOR 2 INTERIOR 2'-8" x 6'-8" x 1-3/8" (815 x 2030 x 35) 3 NTERIOR | 2'-6" x 6'-8" x 1-3/8" (760 x 2030 x 35) PROVIDE 8'-0" HIGH 3A | INTERIOR | 2'-4" x 6'-8" x 1-3/8" (710 x 2030 x 35) INTERIOR DOORS FOR ALL 10' CEILING 4 INTERIOR 2'-0" x 6'-8" x 1-3/8" (610 x 2030 x 35) CONDITIONS 4A INTERIOR 2'-2" x 6'-8" x 1-3/8" (660 x 2030 x 35) INTERIOR

1'-6" x 6'-8" x 1-3/8" (460 x 2030 x 35)

	3.4. ACRONYMS						
AFF	ABOVE FINISHED FLOOR	JST	JOIST				
BBFM	BEAM BY FLOOR MANUFACTURER	LIN	LINEN CLOSET				
BG	FIXED GLASS W/ BLACK BACKING	LVL	LAMINATED VENEER LUMBER				
ВМ	BEAM	OTB/A	OPEN TO BELOW/ABOVE				
BBRM	BEAM BY ROOF MANUFACTURER	PL	POINT LOAD				
CRF	CONVENTIONAL ROOF FRAMING	PLT	PLATE				
C/W	COMPLETE WITH	PT	PRESSURE TREATED				
DJ/TJ	DOUBLE JOIST/ TRIPLE JOIST	PTD	PAINTED				
DO	DO OVER	PWD	POWDER ROOM				
DRP	DROPPED	RWL	RAIN WATER LEADER				
ENG	ENGINEERED	SB	SOLID BEARING WOOD POST				
EST	ESTIMATED	SBFA	SB FROM ABOVE				
FA	FLAT ARCH	SJ	SINGLE JOIST				
FD	FLOOR DRAIN	SPR	SPRUCE				
FG	FIXED GLASS	STL	STEEL				
FL	FLUSH	T/O	TOP OF				
FLR	FLOOR	TYP	TYPICAL				
GT	GIRDER TRUSS	U/S	UNDERSIDE				
НВ	HOSE BIB	WD	WOOD				
HRV	HEAT RETURN VENTILATION UNIT	WIC	WALK IN CLOSET				
HWT	HOT WATER TANK	WP	WEATHER PROOF				
	3,5, SYMBOLS						

ALL ELECTRICAL FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 9.34. CLASS 'B' VENT (2) EXHAUST VENT → 🕉 DUPLEX OUTLET (HEIGHT AS NOTED A.F.F. DUPLEX OUTLET (12" HIGH) -\$₹ HEAVY DUTY OUTLET SWITCH (2/3/4 WAY) φ. LIGHT FIXTURE (CEILING MOUNTED) POT LIGHT Ø% φ-LIGHT FIXTURE (PULL CHAIN) LIGHT FIXTURE (WALL MOUNTED)  $\mathcal{F}$ CABLE T.V. JACK TELEPHONE JACK CENTRAL VACUUM OUTLET CHANDELIER (CEILING MOUNTED

**SMOKE ALARM** (9.10.19.)

PROVIDE O'NE PER FLOOR, NEAR THE STAIRS CONNECTING THE FLOOR LEVEL. ALARMS ARE TO BE INSTALLED IN EACH SLEEPING ROOM AND IN A LOCATION BETWEEN SLEEPING ROOMS AND CONNECTING HALLWAYS AND WIRED TO BE INTERCONNECTED TO ACTIVATE ALL ALARMS IF ONE SOUNDS. ALARMS ARE TO BE CONNECTED TO AN ELECTRICAL CIRCUIT AND WITH A BATTERY BACKUP. ALARM SIGNAL SHALL MEET TEMPORAL SOUND PATTERNS MIN. ALARMS SHALL HAVE A VISUAL SIGNALLING COMPONENT AS PER THE "NATIONAL FIRE ALARM AND SIGNALING CODE 72"

CARBON MONOXIDE ALARM (9.33.4.)

\*\* CHECK LOCAL BY-LAWS FOR REQUIREMENTS \*\* A CARBON MONOXIDE ALARM(S)
CONFORMING TO CAN/CGA-6.19 SHALL BE INSTALLED ON OR NEAR THE CEILING IN EACH
DWELLING UNIT ADJACENT TO EACH SLEEPING AREA, CARBON MONOXIDE ALARM(S)
SHALL BE PERMANENTLY WIRED WITH NO DISCONNECT SWITCH, WITH AN ALARM THAT IS
AUDIBLE WITHIN SLEEPING ROOMS WHEN THE INTERVENING DOORS ARE CLOSED.

SOLID BEARING (BUILT-UP WOOD COLUMNS AND STUD POSTS) THE WIDTH OF A WOOD COLUMN SHALL NOT BE LESS THAN THAN THE WIDTH OF SUPPORTED MEMBER. BUILT-UP WOOD COLUMNS SHALL BE NAILED TOGETHER WITH NOT LESS THAN 3" (76) NAILS SPACED NOT MORE THAN 11 3/4" (300) O.C. THE NUMBER OF STUDS IN A WALL DIRECTLY BELOW A GIRDER TRUSS OR ROOF BEAM SHALL

CONFORM TO TABLES A-34 TO A-37. (9.17.4., 9.23.10.7.) TWO STOREY VOLUME SPACE. SEE CONSTRUCTION NOTE 39.

VARYING PLATES, BUILT-OUT FLOORS, BEARING WALLS, ICE & WATER SHIELD

EXPOSED BUILDING FACE -O.B.C. 9.10.14. OR 9.10.15.
REFER TO HEX NOTE 35. & DETAILS FOR TYPE AND SPECIFICATIONS.

1 HR. PARTY WALL REFER TO HEX NOTE 40. 2 HR. FIREWALL REFER TO HEX NOTE 40A.

**SECTION 4.0. CLIMATIC DATA** 

DESIGN SNOW LOAD (9.4.2.2.): WIND PRESSURE (q50) (SB-1.2.): 1.12 kPa 0.44 **kPa** 

W Architect Inc. **DESIGN CONTROL REVIEW** JANUARY 21, 2022

FINAL BY: GGE



CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB. REPORT ANY DISCREPANCIES TO HUNT DESIGN ASSOCIATES INC. (H.D.A.I.) BEFORE PROCEEDING WITH THE WORK, ALL THE DRAWINGS & SPECIFICATIONS ARE THE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF H.D.A.I. ALL CONSTRUCTION TO ADHERE TO THESE PLANS AND SPECIFICATIONS AND TO CONFORM TO THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. THESE REQUIREMENTS ARE TO BE TAKEN AS MINIMUM SPECIFICATIONS. ONT. REG. 332/12. CONSTRUCTION NOTE REVISION DATE: APRIL 15, 2020

**CONSTRUCTION NOTES 2** 

**UNIT - 4505** 

DESIGN ASSOCIATES INC.

**ROYAL PINE HOMES - 220053** VALES OF HUMBER 'NORTH', BRAMPTON, ON.

3-1 3/4"x14"

4-1 3/4"x14"

LVL12

REV.2022.01.20 30 of 30

MM JL 3/16"=1'-0" 220053WS4505

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