


FRANK FISHER CRESCENT

<div>Owner/Applicant DCR/PHOENIX HOMES</div> <div>Telephone # 723-9227 Plan # 27M-47 Project nameWHITE TAIL RIDGE Civic Address131 FRANK FISHER CR. House model: SPRINGFIELD C</div>		<div>Bldg. Ht.7.67m Lot coverage10.6% Scale1:250 Sod Area1886m² Asphalt Area128m²</div>	<div><div></div><div><div><div>LOT 142</div><div>SITE/GRADING PLAN WHITE TAIL RIDGE PH.IV</div></div></div></div>
<div>CHECKED/APPROVED BY: T.L.MAK ENG. REV. JAN. 15/24 – CB</div>		<div>INDIVIDUAL LOT GRADING REVIEW SUMMARY FOR SITED HOUSE AS COMPARED WITH OVERALL SUBDIVISION PLAN</div> <div>NOTE: THIS PLAN IS NOT A SURVEY PLAN OR SUBDIVISION PLAN WITHIN THE MEANING OF PLANNING ACT. THIS PLAN IS FOR REFERENCE ONLY AND IS PRELIMINARY IN NATURE. ALL DIMENSIONS SHOWN ARE APPROXIMATE. E.O&E.</div>	

CONSTRUCTION NOTES

ALL CONSTRUCTION TO ADHERE TO THESE PLANS AND SPEC'S 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

1.

ROOF CONSTRUCTION
NO.210 (10.25kg/m2) ASPHALT SHINGLES, 11.1mm (7/16") ASPENITE SHEATHING WITH "H" CLIPS. APPROVED WOOD TRUSSES @ 600mm (24") O.C. MAX. APPROVED EAVES PROTECTION TO EXTEND 900mm (3'-0") FROM EDGE OF ROOF AND MIN. 300mm (12") BEYOND INNER FACE OF EXTERIOR WALL, (EAVES PROTECTION NOT REQ'D. FOR ROOF 8:12 OR GREATER) 38x89 (2"x4") TRUSS BRACING @ 1830mm (6'-0") O.C. AT BOTTOM CHORD. PREFIN. ALUM. EAVESTROUGH, FASCIA, RWL & VENTED SOFFIT. ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH 25% AT EAVES. AND 25% AT RIDGE (OBC 9.19.1.2)
2.

FRAME WALL CONSTRUCTION (2"x6")
SIDING AS PER ELEVATION, APPROVED AIR BARRIER 11.1mm (7/16") EXTERIOR TYPE SHEATHING, 38x140 (2"x6") STUDS @ 400mm (16") O.C., RSI 3.87 (R22) INSULATION AND APPROVED VAPOUR BARRIER AND APPROVED CONT. AIR BARRIER, 13mm (1/2") INT. DRYWALL FINISH. SIDING TO BE MIN. 200mm (8") ABOVE FIN. GRADE
- 2A.

FRAME WALL CONSTRUCTION (2"x4" GARAGE WALL)
SIDING AS PER ELEVATION, APPROVED AIR BARRIER, 38x89 (2"x4") STUDS @ 400mm (16") O.C., [FOR CLIENT UPGRADE ONLY - RSI 3.35 (R19) INSULATION AND APPROVED VAPOUR BARRIER, 13mm (1/2") INT. DRYWALL FINISH.] SIDING TO BE MIN. 200mm (8") ABOVE FIN. GRADE
3.

BRICK VENEER CONSTRUCTION (2"x6")
90mm (4") FACE BRICK 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 400mm (16") O.C. HORIZONTAL 600mm (24") O.C. VERTICAL. APPROVED AIR BARRIER 11.1mm (7/16") EXTERIOR TYPE SHEATHING, 38x140 (2"x6") STUDS @ 400mm (16") O.C., RSI 3.87 (R22) INSULATION AND APPROVED VAPOUR BARRIER WITH APPROVED CONTIN. AIR BARRIER. 13mm (1/2") INT. DRYWALL FINISH. PROVIDE WEEP HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE THRU-WALL FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER. BRICK TO BE MIN. 150mm (6") ABOVE FINISH GRADE.
- 3A.

BRICK VENEER CONSTRUCTION (2"x4" GARAGE WALL)
90mm (4") FACE BRICK 25mm (1") AIR SPACE, 22x180x0.76mm (7/8"x7"x0.03") GALV. METAL TIES @ 400mm (16") O.C. HORIZONTAL 600mm (24") O.C. VERTICAL. APPROVED AIR BARRIER, 38x89 (2"x4") STUDS @ 400mm (16") O.C. [FOR CLIENT UPGRADE ONLY - RSI 3.35 (R19) INSULATION AND APPROVED VAPOUR BARRIER, 13mm (1/2") INT. DRYWALL FINISH.] PROVIDE WEEP HOLES @ 800mm (32") O.C. BOTTOM COURSE AND OVER OPENINGS. PROVIDE THRU-WALL FLASHING UP MIN. 150mm (6") BEHIND BUILDING PAPER. BRICK TO BE MIN. 150mm(6") ABOVE FINISH GRADE.
4.

INTERIOR STUD PARTITIONS FOR BEARING PARTITIONS 38x89 (2"x4") @ 400mm (16") O.C. FOR 2 STOREYS AND 300mm (12") O.C. FOR 3 STOREYS, NON-BEARING PARTITIONS 38x89 (2"x4") @ 600mm (24") O.C. PROVIDE 38x89 (2"x4") BOTTOM PLATE AND 2/38x89 (2/2"x4") TOP PLATE. 13mm (1/2") INT. DRYWALL BOTH SIDES OF STUDS, PROVIDE 38x140 (2"x6") STUDS/PLATES WHERE NOTED.
5.

FOUNDATION WALL/FOOTINGS: -SEE OBC 9.15.3, 9.15.4 200mm (8") POURED CONC. FDTN. WALL 20MPa (c/w 2-15M REBAR TOP & BOTTOM) WITH BITUMENOUS DAMPROOFING AND OPT. DRAINAGE LAYER. DRAINAGE LAYER REQ. WHEN BASEMENT INSUL. EXTENDS 900 (2'-11") BELOW FIN. GRADE. MAXIMUM POUR HEIGHT 2390 (7'-10") ON 500x155 (20"x6") CONTINUOUS KEYED CONC. FTG. BRACE FDTN. WALL PRIOR TO BACKFILLING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL, WITH MIN. BEARING CAPACITY OF 100kPa OR GREATER. IF SOIL BEARING DOES NOT MEET MIN. CAPACITY, ENGINEERED FOOTINGS ARE REQUIRED. MAX. FLOOR LIVE LOAD OF 2.4kpa(50psf) PER FLOOR, AND MAX. LENGTH OF SUPPORTED JOISTS IS 4.9m (16'-1"). REFER TO SOILS REPORT FOR SOILS CONDITIONS AND BEARING CAPACITY.
6.

100mm (4") DIA. WEEP TILE 150mm (6") CRUSHED STONE OVER AND AROUND WEEPING TILES.
7.

BASEMENT SLAB OBC. 9.3.1.6,(1)(b) & 9.16.4.5.(1) 80mm (3")MIN. 25MPa (3600psi) CONC. SLAB ON 100mm (4") COARSE GRANULAR FILL, OR 15MPa. (2200psi) CONC. WITH DAMPROOFING BELOW SLAB.
8.

EXPOSED FLOOR TO EXTERIOR PROVIDE RSI 5.46 (R31) INSULATION, APPROVED VAPOUR BARRIER AND CONTINUOUS AIR BARRIER, FINISHED SOFFIT.
9.

OBC. 12.3.2.1 & 12.3.3.7 ATTIC INSULATION RSI 8.81 (R60) BLOWN IN ROOF INSULATION AND APPROVED VAPOUR BARRIER, 13mm (1/2") INT. DRYWALL FINISH OR APPROVED EQUAL.
10.

STAIRS, STEPS, HANDRAILS -OBC. 9.8.-
-9.8.2.1(2) STAIR WIDTH MEASURED BETWEEN WALL FACES OR GUARDS SHALL BE NOT LESS THAN 860mm (33 7/8") FOR REQUIRED EXIT STAIRS SERVING A HOUSE OR DWELLING UNIT.
-9.8.2.2(3) CLEAR HEIGHT OVER STAIRS SHALL NOT BE LESS THAN 1950mm (76 3/4")
-9.8.4 STEP DIMENSIONS (TABLE 9.8.4.1)
STAIR COMPONENT MINIMUM MAXIMUM
RISE 125mm (4 11/16") 200mm (7 7/8")
RUN 255mm (10 1/8") 355mm (14")
-9.8.4.4 UNIFORMITY & TOLERANCES FOR RISERS & TREADS
-BETWEEN ADJACENT TREADS & LANDINGS = 5mm
-BETWEEN TALLEST & SHORTEST RISER IN FLIGHT=10mm
-9.8.4.6(1)(b) MAX. NOSING 25mm (1")
-9.8.7.5(1)(b) CLEARANCE BETWEEN HANDRAIL AND SURFACE BEHIND IT TO BE MIN. 50mm (1 7/8")
-9.8.7.6(1) HANDRAILS SHALL NOT PROJECT MORE THAN 100mm (3 7/8") INTO REQUIRED WIDTH OF STAIR <SEE 9.8.2.1(1)>
GUARDS -OBC. 9.8.8.3.-
(1) EXT. GUARDS HEIGHT: =1070mm (42 3/8") MIN.
(2) INT. GUARDS HEIGHT: =900mm (35 5/8") MIN.
(1) STAIR LANDING GUARDS: =1070mm (42 3/8") MIN.
-9.8.8.5(1) MAX. OPENINGS THROUGH GUARDS =100mm (3 7/8")
11.

(1) EXT. GUARDS HEIGHT: =1070mm (42 3/8") MIN.
(2) INT. GUARDS HEIGHT: =900mm (35 5/8") MIN.
(1) STAIR LANDING GUARDS: =1070mm (42 3/8") MIN.
-9.8.8.5(1) MAX. OPENINGS THROUGH GUARDS =100mm (3 7/8")
12.

38x89 (2"x4") SILL PLATE WITH 13mm (1/2") DIA. ANCHOR BOLTS 200mm (8") LONG, EMBEDDED MIN. 100mm (4") INTO CONC. @ 2400mm (7'-10") O.C. USE NON-SHRINK GROUT TO LEVEL SILL PLATE WHEN REQUIRED. (SEE OBC. 9.23.7)
13.

-R12 (3 1/2") CONTINUOUS BATT INSULATION. 2"x4" STUD WALL PLACED 3/4" AWAY FROM WALL. FILL STUD CAVITY WITH R10 BATT INSULATION. APPROVED VB TO 8" ABOVE FLOOR LEVEL.
OR
-APPROVED BLANKET INSULATION (R20) MECHANICALLY SECURED TO CONCRETE FOUNDATION WALL WITH 100mm HILTI PINS (COMES WITH PLASTIC WASHER)

DAMPMPROOF WITH BUILDING PAPER BETWEEN THE FOUNDATION WALL AND INSULATION UP TO GRADE LEVEL.

(SEE DETAIL ON "SB-12 DETAILS" PAGE)

14.

BEARING STUD PARTITION
38x89 (2"x4") STUDS @ 400mm (16") O.C. 38x89 (2"x4") SILL PLATE ON DAMPROOFING MATERIAL, 13mm (1/2") DIA. ANCHOR BOLTS 200mm (8") LONG, EMBEDDED MIN. 100mm (4") INTO CONC. @ 2400mm (7'-10") O.C. 100mm (4") HIGH CONC. CURB ON 350x155 (14"x6") CONC. FOOTING. ADD HORIZ. BLOCKING AT MID-HEIGHT IF WALL IS UNFINISHED.
15.

STEEL BASEMENT COLUMN (SEE O.B.C. 9.17.3.1, 9.17.3.4)
75mm (3") DIA. ADJUSTABLE STL. COL. CONFORMING TO CAN/CGSB-7.2M, AND WITH 102x150x9.5 (4"x6"x3/8") STL. PLATE TOP & BOTTOM. 910x910x300 (36"x36"x12") CONC. FOOTING ON UNDISTURBED SOIL OR ENGINEERED FILL CAPABLE OF SUSTAINING A PRESSURE OF 100 Kpa. MINIMUM AND AS PER SOILS REPORT.
- 15A.

STEEL BASEMENT COLUMN (SEE O.B.C. 9.17.3.1, 9.17.3.4)
3"x3"x(188) NON-ADJUSTABLE STL. COL. WITH 150x150x9.5 (6"x6"x3/8") STL. TOP & BOTTOM PLATE ON 910x910x300 (36"x36"x12") CONC. FOOTING ON UNDISTURBED SOIL OR ENGINEERED FILL CAPABLE OF SUSTAINING A PRESSURE OF 100 Kpa. MIN. AND AS PER SOILS REPORT.
- 15B.

STEEL COLUMN (SEE OBC. 9.17.3.1, 9.17.3.4) 3"x3"x(188) NON-ADJUSTABLE STL. COL. TO BE ON 150x150x9.5 (6"x6"x3/8") STEEL TOP PLATE, & BOTTOM PLATE. BASE PLATE 120x250x12.5 (4 1/2"x10"x1/2") WITH 2-12mm DIA. x 300mm LONG x50mm LONG x50mm HOOK ANCHORS (2-1/2"x12"x2") FIELD WELD COL. TO BASE PLATE.
- 15C.

STEEL COLUMN (SEE OBC. 9.17.3.1, 9.17.3.4) 90mm(3 1/2") DIA.x4.78mm(188) NON-ADJUSTABLE STL. COL. TO BE ON 150x150x9.5 (6"x6"x3/8") STEEL TOP PLATE, & BOTTOM PLATE. BASE PLATE 120x250x12.5 (4 1/2"x10"x1/2") WITH 2-12mm DIA. x 300mm LONG x50mm HOOK ANCHORS (2-1/2"x12"x2") FIELD WELD COL. TO BASE PLATE.
16.

BEAM POCKET OR 300x150 (12"x6") POURED CONC. NIB WALLS. MIN. BEARING 90mm (3-1/2")
17.

19x64 (1"x3") CONTINUOUS WD. STRAPPING BOTH SIDES OF STEEL BEAM.
18.

GARAGE SLAB: 100mm (4") 32MPa (4640psi) CONC. SLAB WITH 5-8% AIR ENTRAINMENT ON OPT. 100 (4") COARSE GRANULAR FILL WITH COMPACTED SUB-BASE OR COMPACTED NATIVE FILL SLOPE TO FRONT AT 1% MIN.
19.

13mm (1/2") GYPSUM BD. ON WALL AND CEILING BETWEEN HOUSE AND GARAGE, RSI 3.87 (R22) IN WALLS, RSI 5.46 (R31) IN CEILING. PROVIDE APPROVED AIR BARRIER. TAPE AND SEAL ALL JOINTS AIR TIGHT.
20.

DOOR AND FRAME GASPROOFED. DOOR EQUIPPED WITH SELF CLOSING DEVICE AND WEATHERSTRIPPING. PER OBC 9.10.13.15
21.

WOOD STEP, C/W HANDRAIL & LANDING IF MORE THAN 3 RISERS, MAX.RISE 200mm (7-7/8") MIN.TREAD 255mm (10-1/16") SEE OBC 9.8.9.2, 9.8.9.3 & 9.8.10
22.

CAPPED DRYER EXHAUST VENTED TO EXTERIOR. (USE 100mm(4") DIA. SMOOTH WALL VENT PIPE) OBC 6.2.3.8.(7)
23.

ATTIC ACCESS HATCH 545x610 (21.5"x24") WITH A MIN. AREA OF 3.44 SF WITH WEATHERSTRIPPING RSI 7.0 (R40) RIGID INSUL. BACKING OBC 9.19.2
24.

FIREPLACE CHIMNEYS -OBC. 9.21.- TOP OF FIREPLACE CHIMNEY SHALL BE 915mm (3'-0") ABOVE THE HIGHEST POINT AT WHICH IT COMES IN CONTACT WITH THE ROOF AND 610mm (2'-0") ABOVE THE ROOF SURFACE WITHIN A HORIZ. DISTANCE OF 3050mm (10'-0") FROM THE CHIMNEY.
25.

LINEN CLOSET, 4 SHELVES MIN. 350mm (14") DEEP.
26.

MECHANICAL EXHAUST FAN, VENTED TO EXTERIOR, TO PROVIDE AT LEAST ONE AIR CHANGE PER HOUR.
27.

STEEL BEARING PLATE FOR MASONRY WALLS 280x280x16 (11"x11"x5/8") STL. PLATE FOR STL BEAMS AND 280x280x12 (11"x11"x1/2") STL. PLATE FOR WOOD BEAMS BEARING ON CONC. BLOCK PARTYWALL, ANCHORED WITH 2-19mm (3/4") x 200mm (8") LONG GALV. ANCHORS WITHIN SOLID BLOCK COURSE. LEVEL WITH NON-SHRINK GROUT.

OR

SOLID WOOD BEARING FOR WOOD STUD WALLS SOLID BEARING TO BE AT LEAST AS WIDE AS THE SUPPORTED MEMBER. SOLID WOOD BEARING COMPRISED OF BUILT-UP WOOD STUDS TO BE CONSTRUCTED IN ACCORDANCE WITH OBC. 9.17.4.2 (2).

28.

U.L.C. RATED CLASS "B" VENT 610mm (2'-0") ABOVE THE POINT IN CONTACT WITH THE ROOF FOR SLOPES UP TO 9/12, REFER TO THE ONTARIO GAS UTILIZATION CODE.
29.

3-2"x6" BUILT-UP-POST ON 24"x24"x10" CONCRETE FOOTING. (SEPARATE WOOD FROM CONCRETE W/ 6mil POLY AS PER OBC 9.17.4)
30.

STEP FOOTINGS: MIN. HORIZ. STEP = 600mm (23-5/8"). MAX. VERT. STEP = 600mm (23-5/8") FOR FIRM SOILS.
31.

PORCH SLAB/STEPS: 130 mm (5") MIN. CONC. 32 MPa SLAB AIR ENTRAINMENT MIN. 5 TO 8% AT 28 DAYS, 10 M BARS @ 250 O/C EACH WAY 10M DOWELS @400 (16") O.C. 2-15m IN THICKENED AREA FROM WALL TO SLAB ALL SIDES (SEE DETAIL)
32.

DIRECT VENT FURNACE TERMINAL MIN. 900mm (36") FROM A GAS REGULATOR, MIN. 300mm (12") ABOVE FIN. GRADE, FROM ALL OPENINGS, EXHAUST AND INTAKE VENTS. HRV INTAKE TO BE A MIN. OF 1830mm (6'-0") FROM ALL EXHAUST TERMINALS. REFER TO GAS UTILIZATION CODE.
33.

DIRECT VENT GAS FIREPLACE. VENT TO BE A MINIMUM 300mm (12") FROM ANY OPENING AND ABOVE FIN. GRADE. REFER TO GAS UTILIZATION CODE.
34.

SUBFLOOR
-19mm (3/4") T & G SUBFLOOR GLUED AND SCREWED TO ENGINEERED FLOOR JOIST SYSTEM. SUPPLY AND INSTALL BLOCKING AND/OR BRIDGING IF INDICATED BY FLOOR JOIST DESIGNER (REFER TO MANUFACTURER'S LAYOUTS AND INSTALLATION INSTRUCTIONS)
35.

EXPOSED BUILDING FACE -OBC. 9.10.14.5- EXTERIOR WALLS TO HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 45 min. WHERE LIMITING DISTANCE IS LESS THAN 1.2M (3'-11"). WHERE THE LIMITING DISTANCE IS LESS THAN 600mm (1'-11") THE EXPOSING FACE SHALL BE CLAD IN NON-COMBUSTIBLE MATERIAL.
36.

LINTEL SPECIFICATION
ALL WINDOW AND DOOR LINTELS TO BE COMPRISED OF 2-2X10 BUILT-UP WOOD BEAM, EACH END BEARING ON P2s (UNLESS NOTED OTHERWISE)
37.

THE FDTN. WALL SHALL NOT BE REDUCED TO LESS THAN 90mm (3 5/8") THICK TO A MAX. DEPTH OF 350mm (13 3/4") AND SHALL BE TIED TO THE FACING MATERIAL WITH METAL TIES SPACED 200mm (8") O.C. VERTICALLY AND 900mm (36") O.C. HORIZONTALLY. FILL SPACE BETWEEN WALL AND FACING SOLID WITH MORTAR (SEE OBC 9.15.4.7)

Certified Permit Document

A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26



38.

CONVENTIONAL ROOF FRAMING 38x140 (2"x6") RAFTERS @ 400mm (16"O.C.), FOR MAX. 11'-7" SPAN. 38x184 (2"x8") RIDGE BOARD. 38x89 (2"x4") COLLAR TIES AT MIDSPANS. CEILING JOISTS TO BE 38x89 (2"x4") @ 400mm (16") O.C. FOR MAX. 2830mm (9'-3") SPAN & 38x140 (2"x6") @ 400mm (16") O.C. FOR MAX. 4450mm (14'-7") SPAN. RAFTERS FOR BUILT-UP ROOF TO BE 38x89 (2"x4") @ 600mm (24") O.C. WITH A 38x89 (2"x4") CENTRE POST TO THE TRUSS BELOW, Laterally BRACED AT 1800mm (6'-0") O.C. VERTICALLY.
39.

TWO STOREY VOLUME SPACES
FOR HIGH WALL UP TO 18'-0": CONSTRUCTION: 2"x6" SPACING AS INDICATED BLOCKING: 3 ROWS @ 4'-6" O/C ± SHEATHING: 7/16" ASPENITE NAILING: 2" STAPLES BET. 4" AND 6" O/C ALONG STUDS
- STUD SPACING WITH VARIOUS FINISHES:

1.

SIDING-METAL OR VINYL- 2"x6" @12" O/C

2.

PLUCCO -2"x6" @16" O/C

3.

BRICK TO 4'-0" -2"x6" @16" O/C

4.

BRICK FULL HEIGHT -2-2"x6" @12" O/C
40.

TYPICAL 1 HOUR RATED PARTYWALL. REFER TO DETAILS FOR TYPE AND SPECIFICATIONS.

41.

STRIP FOOTING SUPPORTING EXTERIOR WALLS
-SEE OBC 9.15.3.
-ASSUMING MASONRY VENEER CONSTRUCTION, MAX. FLOOR LIVE LOAD OF 2.4kPa. (50psf.) PER FLOOR, AND MAX. LENGTH OF SUPPORTED FLOOR JOISTS IS 4.9m (16'-1").
THE STRIP FOOTING SIZE IS AS FOLLOWS:
2 STOREY (STANDARD) 500x155 (20"x6")
2 STOREY (WALK-OUT BASEMENT) 545x175 (22"x7")
(UNLESS OTHERWISE NOTED ON PLAN)
42.

EXTERIOR WALLS FOR WALK-OUT CONDITIONS THE EXTERIOR BASEMENT STUD WALL TO BE 38x140 (2"x6") STUDS @ 16" o.c. OR 38x89 (2"x4") STUDS @ 12" o.c.
43.

FLASHING FOR EXT. WALL OPENINGS (O.B.C.9.27.3.8.(3))
44.

SUMP PITS (WHERE REQ'D) SEE O.B.C. 9.14.5.2
-MUST BE SEALED AS PER 9.25.3.3.(16)

WINDOWS:

- 1

MINIMUM BEDROOM WINDOW -OBC. 9.9.10. AT LEAST ONE BEDROOM WINDOW ON A GIVEN FLOOR IS TO HAVE MIN. 0.35m2 UNOBSSTRUCTED GLAZED OR OPENABLE AREA WITH MIN. CLEAR WIDTH OF 380 mm (1'-3").
- 2

WINDOW GUARDS -OBC. 9.8.8.1. A GUARD IS REQUIRED WHERE THE TOP OF THE WINDOW SILL IS LOCATED LESS THAN 480mm (1'-7") ABOVE FIN. FLOOR AND THE DISTANCE FROM THE FIN. FLOOR TO THE ADJACENT GRADE IS GREATER THAN 1800mm (5'-11")
- 3

ALL WINDOWS TO COMPLY WITH THERMAL RESISTANCE REQUIREMENTS STATED IN OBC 12.3.2.6. AND SB12 PRESCRIPTIVE COMPLIANCE PACKAGE, AND OBC 9.5, 9.6, 9.7

GENERAL

- 1

MECHANICAL VENTILATION IS REQUIRED TO PROVIDE 0.3 AIR CHANGES PER HOUR AVERAGED OVER 24 HOURS. SEE MECHANICAL DRAWINGS.
- 2

ALL DOWNSPOUTS TO DRAIN AWAY FROM THE BUILDINGAS PER OBC 9.26.18.2 AND MUN. STANDARDS.
- 3

ALL WINDOW WELLS TO DRAIN TO FOOTING LEVEL PER OBC 9.14.6.3 CHECK WITH LOCAL AUTHORITY.
- 4

PROVIDE STUD WALL REINFORCEMENT FOR FUTURE GRAB BARS IN BATHROOMS. REINF. OF STUD WALLS SHALL BE INSTALLED ADJACENT TO WATER CLOSETS AND SHOWER OR BATHTUB IN MAIN BATHROOM, SEE OBC 9.5.2.3.

LUMBER:

- 1

ALL LUMBER SHALL BE SPRUCE NO.2 GRADE, 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 (L.V.L.) BEAMS, GIRDER TRUSSES, AND METAL HANGER CONNECTIONS SUPPORTING ROOF FRAMING TO BE DESIGNED & CERTIFIED BY TRUSS MANUF.
- 5

LVL BEAMS SHALL BE 2.0E WS MICRO-LAM LVL (Fb=2800psi,MIN.) OR EQUIVALENT. NAIL EACH PLY OF LVL WITH 89mm (3 1/2") LONG COMMON WIRE NAILS @ 300mm (12") O.C. STAGGERED IN 2 ROWS FOR 184, 240 & 300mm (7 1/4",9 1/2", 11 7/8") DEPTHS AND STAGGERED IN 3 ROWS FOR GREATER DEPTHS AND FOR 4 PLY MEMBERS ADD 13mm (1/2") DIA. GALVANIZED BOLTS BOLTED AT MID-DEPTH OF BEAM @ 915mm (3'-0") O.C.
- 6

PROVIDE TOP MOUNT BEAM HANGERS TYPE "SCL" MANUFACTURED BY MGA CONNECTOR LTD. Tel. (905) 642-3175 OR EQUAL FOR ALL LVL BEAM TO BEAM CONNECTIONS UNLESS OTHERWISE NOTED.
- 7

JOIST HANGERS: PROVIDE METAL HANGERS FOR ALL JOISTS AND BUILT-UP WOOD MEMBERS INTERSECTING FLUSH BUILT-UP WOOD MEMBERS.
- 8

WOOD FRAMING NOT TREATED WITH A WOOD PRESERVATIVE, IN CONTACT WITH CONCRETE, SHALL BE SEPARATED FROM THE CONCRETE BY AT LEAST 2 mil. POLYETHYLENE FILM, No. 50 (45lbs.) ROLL ROOFING OR OTHER DAMPPROOFING MATERIAL, EXCEPT WHERE THE WOOD MEMBER IS ST LEAST 150mm (6") ABOVE THE GROUND.

STEEL:

- 1

STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA-G40-21 GRADE 300W. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO CAN/CSA-G40-21 GRADE 350W CLASS "H".
- 2

REINFORCING STEEL SHALL CONFORM TO CSA-G30-18M GRADE 400R.

WOOD LINTELS AND BUILT-UP WOOD BEAMS

L1	2/38 x 184 (2/2" x 8") SPR.#2
B1	3/38 x 184 (3/2" x 8") SPR.#2
B2	4/38 x 184 (4/2" x 8") SPR.#2
L3	2/38 x 235 (2/2" x 10") SPR.#2
B3	3/38 x 235 (3/2" x 10") SPR.#2
B4	4/38 x 235 (4/2" x 10") SPR.#2
L5	2/38 x 286 (2/2" x 12") SPR.#2
B5	3/38 x 286 (3/2" x 12") SPR.#2
B6	4/38 x 286 (4/2" x 12") SPR.#2

LOOSE STEEL LINTELS

L7	90 x 90 x 6.0L (3-1/2" x 3-1/2" x 1/4"L)
L8	90 x 90 x 8.0L (3-1/2" x 3-1/2" x 5/16"L)
L9	100 x 90 x 8.0L (4" x 3-1/2" x 5/16"L)
L10	125 x 90 x 8.0L (5" x 3-1/2" x 5/16"L)
L11	125 x 90 x 10.0L (5" x 3-1/2" x 3/8"L)
L12	150 x 100 x 10.0L (6"x 4" x 3/8"L)

STEEL COLUMNS (UNLESS NOTED OTHERWISE)



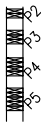
















TP = (1) 3" DIA. ADJ. ST. POST
2TP = (2) 3" DIA. ADJ. ST. POSTS
HSS = 3.5"x3.5" HOLLOW STRUCTURAL SECTION STEEL POST

LAMINATED VENEER LUMBER (LVL) BEAMS

LVL1	2-1 3/4"x7 1/4" (2-45x184)
LVL2	3-1 3/4"x7 1/4" (3-45x184)
LVL3	4-1 3/4"x7 1/4" (4-45x184)
LVL4	2-1 3/4"x9 1/2" (2-45x240)
LVL5	3-1 3/4"x9 1/2" (3-45x240)
LVL6	2-1 3/4"x11 7/8" (2-45x300)
LVL7	3-1 3/4"x11 7/8" (3-45x300)

MASONRY VENEER LINTEL SCHEDULE [OBC2012] PROVIDE 6"MINIMUM BEARING EACH END 9.20.5.2B	
OPENINGS	LINTEL SIZE
UP TO 8'-0"	3 1\2" x 3 1\2" x 1\4"
8'-0" TO 8'-8"	4" x 3 1\2" x 1\4"
8'-8" TO 10'-10"	5" x 3 1\2" x 5\16"
10'-10" TO 11'-5"	5" x 3 1\2" x 7\16"
11'-5" TO 11'-9"	5" x 3 1\2" x 1\2"
11'-9" TO 12'-6"	6" x 3 1\2" x 7\16"
12'-6" TO 13'-4"	6" x 3 1\2" x 1\2"

LEGEND

LEGEND		 M.C.	MEDICINE CABINET
	DOUBLE VOLUME WALL	SEE NOTE	39.
	SOLID WOOD BEARING		
	P2 - 2 MEMBER BUILT-UP STUD		
	P3 - 3 MEMBER BUILT-UP STUD		
	P4 - 4 MEMBER BUILT-UP STUD		
	P5 - 5 MEMBER BUILT-UP STUD		
NOTE: SOLID BEARING TO BE AS WIDE AS SUPPORTED MEMBER. SOLID BEARING TO BE A MINIMUM OF P2 (ONE CONTINUOUS STUD AND ONE JACK STUD, UNLESS OTHERWISE NOTED ON PLAN.)			
	SMOKE ALARM (AUDIBLE/VISUAL)-OBC 9.10.19.		
PROVIDE 1 PER FLOOR, NEAR THE STAIRS CONNECTING THE FLOOR LEVEL. ONE PER SLEEPING ROOM, INCLUDING HALLWAYS BE CONNECTED TO AN ELECTRICAL CIRCUIT AND INTERCONNECTED TO ACTIVATE ALL ALARMS WHEN ONE ALARM SOUNDS.			
-9.10.19.1(2) REQUIRED SMOKE ALARMS TO HAVE A VISUAL COMPONENT			
	CARBON MONOXIDE ALARM (OBC 9.33.4)		
WHERE A FUEL-BURNING APPLIANCE IS INSTALLED IN A DWELLING UNIT, A CARBON MONOXIDE ALARM CONFORMING TO CAN/CSA-6.19, CSA 6.19 OR UL2034 SHALL BE INSTALLED ADJACENT TO EACH SLEEPING AREA. CARBON MONOXIDE ALARM(S) SHALL BE PERMANENTLY WIRED SO THAT ITS ACTIVATION WILL ACTIVATE ALL CARBON MONOXIDE ALARMS AND BE EQUIPPED WITH AN ALARM THAT IS AUDIBLE WITHIN BEDROOMS WHEN THE INTERVENING DOORS ARE CLOSED.			
SOIL GAS CONTROL (OBC 9.13.1. & 9.13.4, & SB9) PROVIDE CONSTRUCTION TO PREVENT LEAKAGE OF SOIL GAS INTO THE BUILDING WHERE REQUIRED. (SEE ALSO O.B.C. 9.1.1.7.(1))			
	EXHAUST VENT		
	DUPLEX OUTLET (12" HIGH)		
	WEATHERPROOF DUPLEX OUTLET		
	HEAVY DUTY OUTLET		
	POT LIGHT		
	LIGHT FIXTURE (CEILING MOUNTED)		
	LIGHT FIXTURE (WALL MOUNTED)		
	SWITCH		
	SWITCH (3-WAY)		
	FLOOR DRAIN		
	HOSE BIB		
DJ	DOUBLE JOIST		
LVL	LAMINATED VENEER LUMBER		
	POINT LOAD FROM ABOVE		
P.T.	PRESSURE TREATED LUMBER		
G.T.	GIRDER TRUSS BY ROOF TRUSS MANUF.		
	FLAT ARCH		
	CURVED ARCH		

CONTRACTOR MUST VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCY TO THE BUILDER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED. ALL DRAWINGS TO BE USED FOR CONSTRUCTION ONLY AFTER BUILDING PERMIT HAS BEEN ISSUED.


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5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	
D.C.L.-A-9	1 9

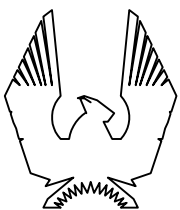


SPRINGFIELD C – 2022

142

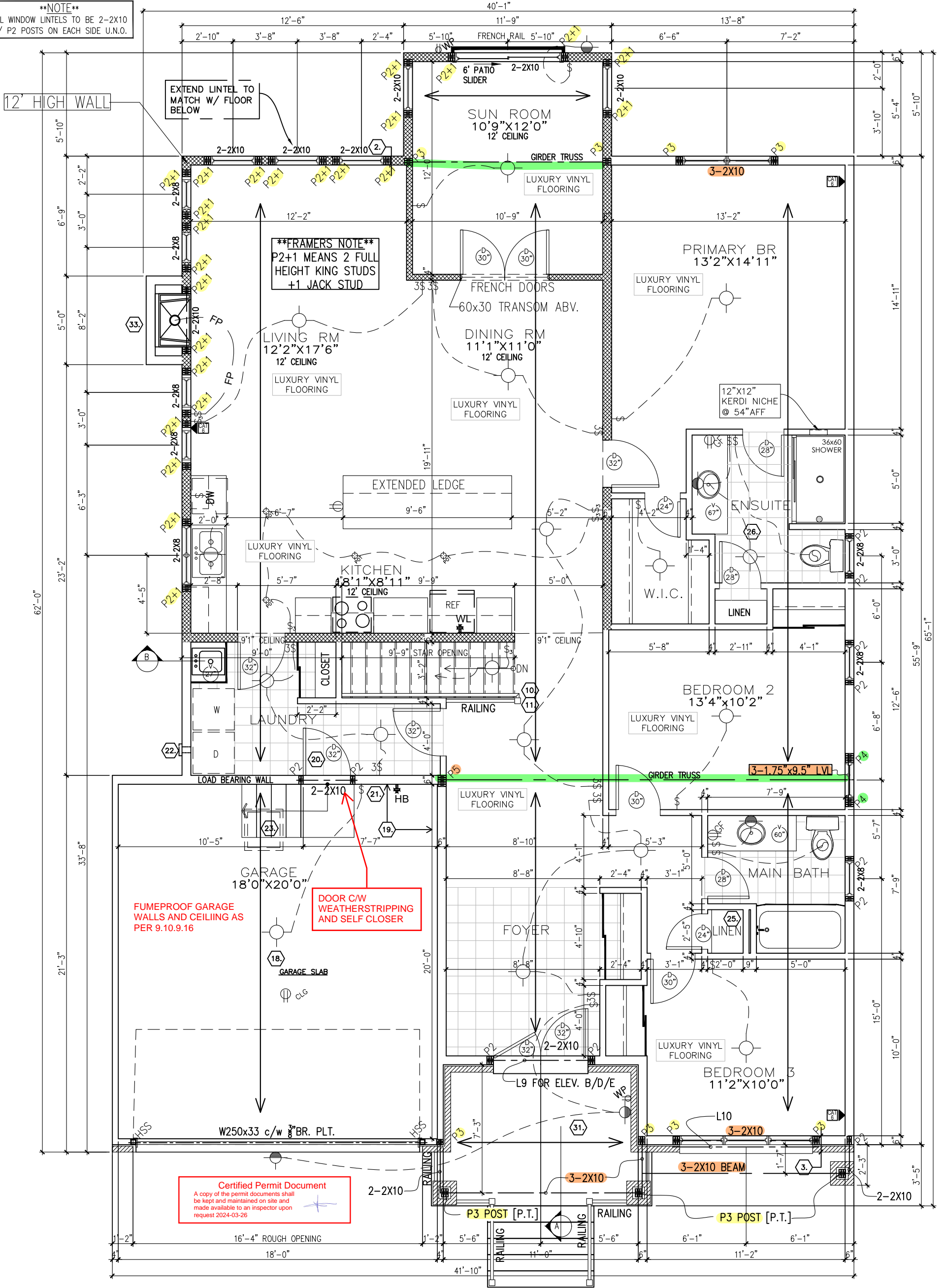
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drawn by: SD	
date: SEP/12	
scale: 3/16"=1'-0"	
sheet no:	
D.C.L.-A-9	

MM Page 3 of 21



PHOENIX HOMES

****NOTE****
ALL WINDOW LINTELS TO BE 2-2X10
W/ P2 POSTS ON EACH SIDE U.N.O.



GROUND FLOOR

BASEMENT = 25 SQ. FT.
GROUND FLOOR = 1838 SQ. FT.
TOTAL = 1863 SQ. FT.

-FLAT CEILINGS THROUGHOUT / NO STIPPLE
-BYPASS SLIDERS FOR ALL SLIDING CLOSET DOORS

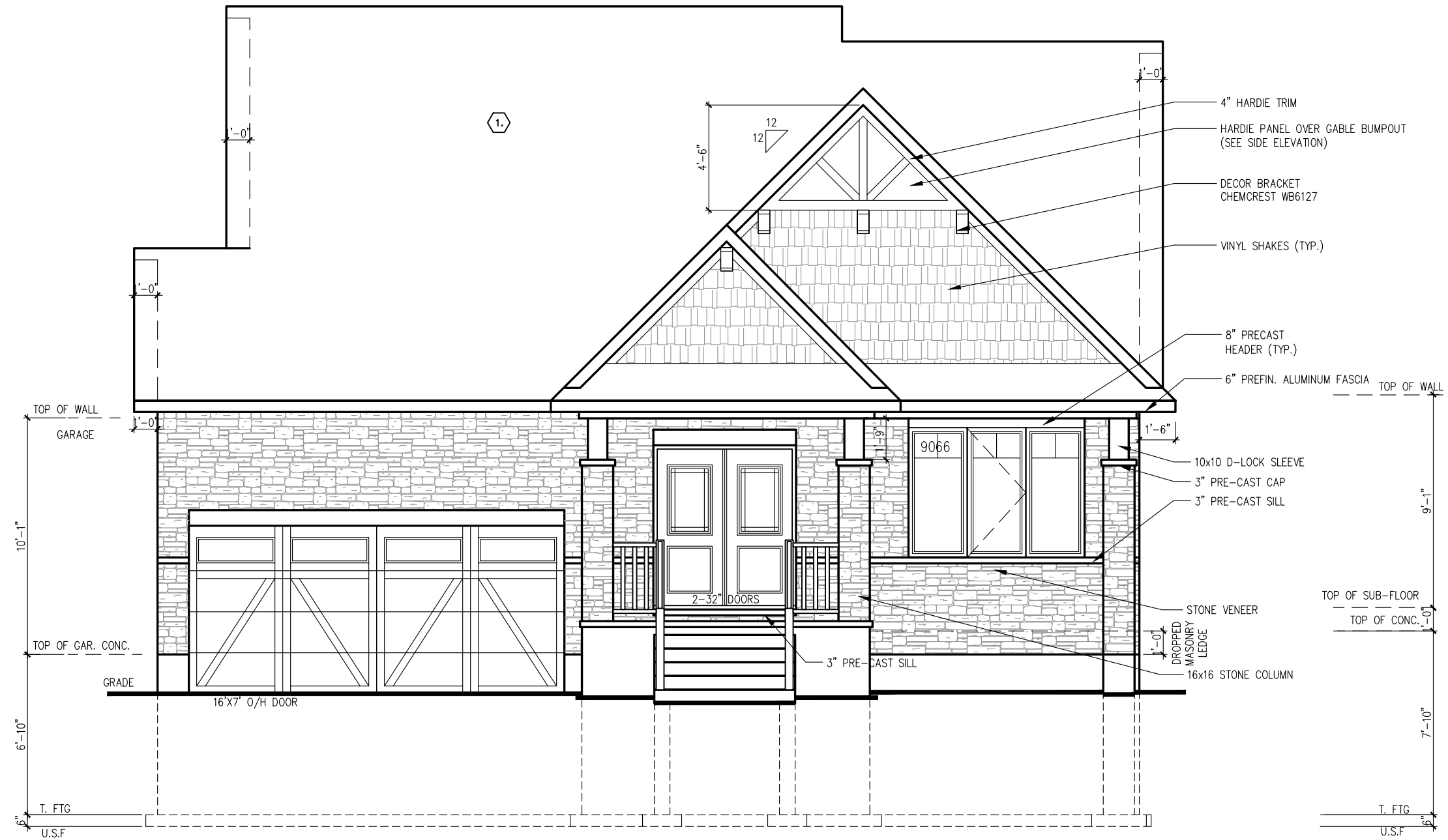
SPRINGFIELD C



SPRINGFIELD C - 2022
SITE: WHITE TAIL RIDGE
LOT NUMBER: 142
CIVIC ADDRESS: 131 FRANK FISHER CRESCENT

6	ISSUED FOR ENGINEERING	26/01/24	CB
5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	3
D.C.L.-A-9	9



FRONT ELEVATION C

Certified Permit Document
A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	4
D.C.L.-A-9	9

No.	Description	dd/mm/yy	By
6	ISSUED FOR ENGINEERING	26/01/24	CB
5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP

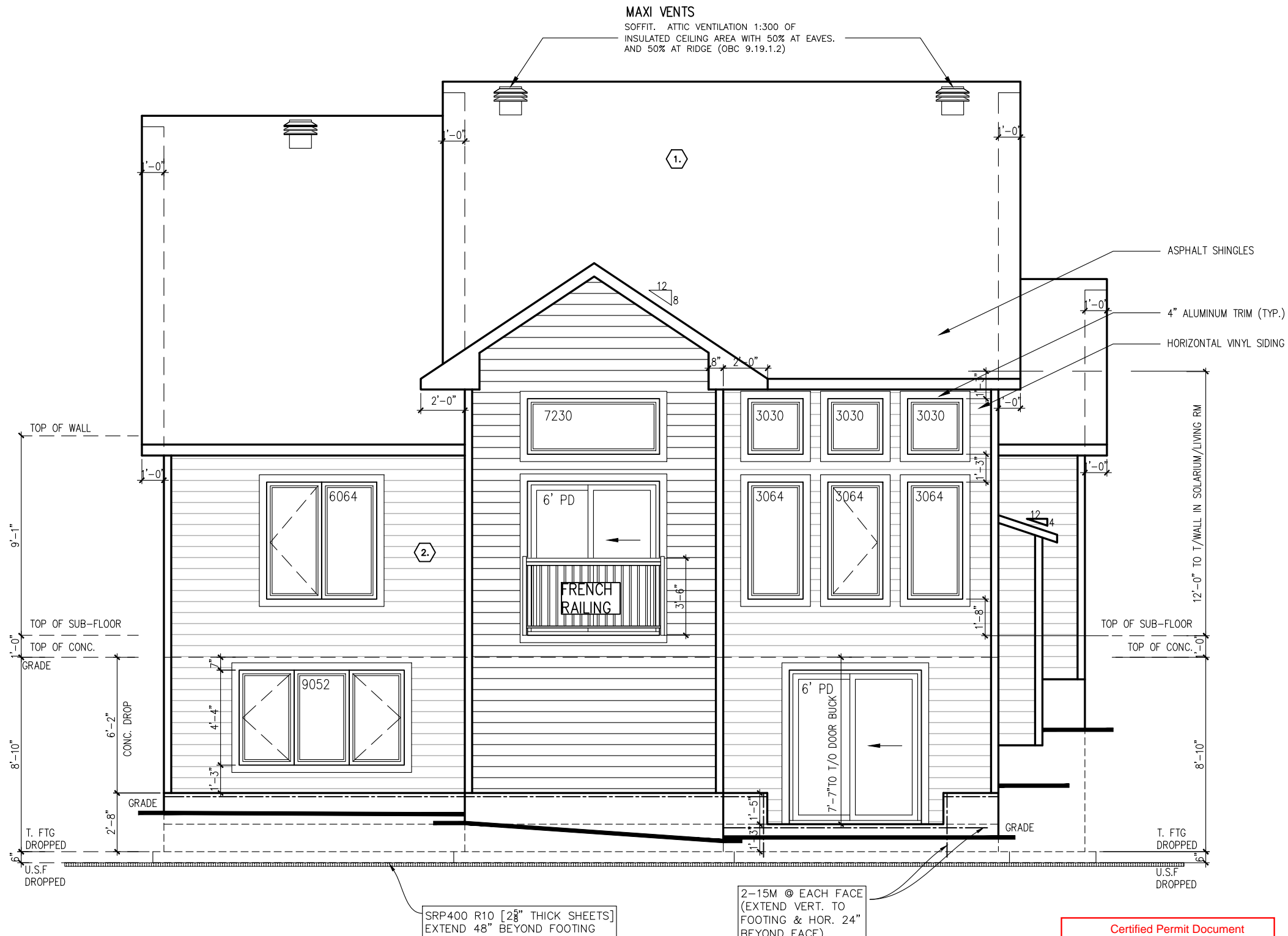
SPRINGFIELD C - 2022

SITE: WHITE TAIL RIDGE

LOT NUMBER: 142

CIVIC ADDRESS: 131 FRANK FISHER CRESCENT

PHOENIX HOMES



REAR ELEVATION C

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	5
D.C.L.-A-9	9

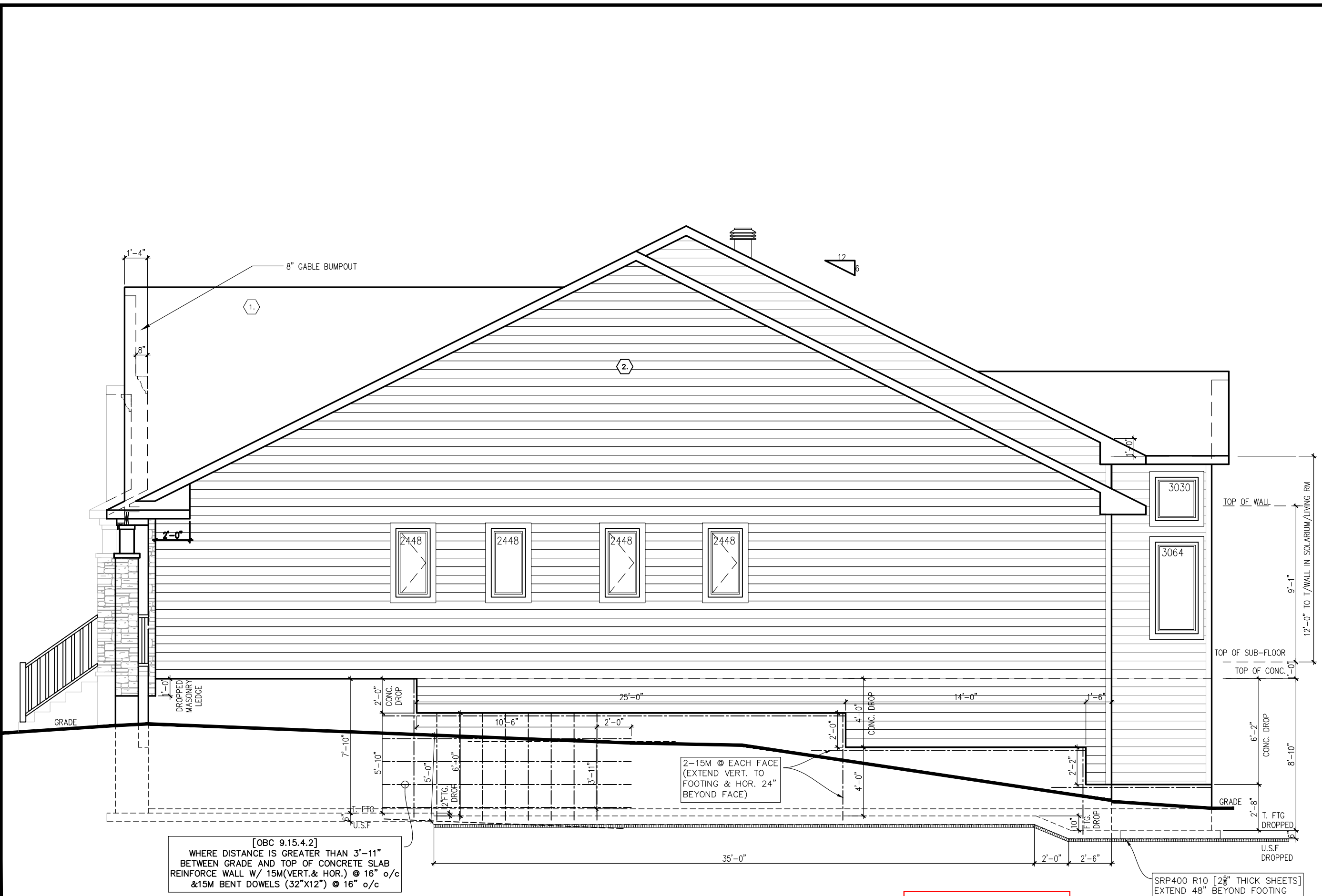
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5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

SPRINGFIELD C - 2022

SITE: WHITE TAIL RIDGE

LOT NUMBER: 142
CIVIC ADDRESS: 131 FRANK FISHER CRESCENT

PHOENIX HOMES



[OBC 9.15.4.2]
WHERE DISTANCE IS GREATER THAN 3'-11"
BETWEEN GRADE AND TOP OF CONCRETE SLAB
REINFORCE WALL W/ 15M(VERT.& HOR.) @ 16" o/c
& 15M BENT DOWELS (32"x12") @ 16" o/c

2-15M @ EACH FACE
(EXTEND VERT. TO
FOOTING & HOR. 24"
BEYOND FACE)

SRP400 R10 [2 3/8" THICK SHEETS]
EXTEND 48" BEYOND FOOTING

RIGHT SIDE ELEVATION C

Certified Permit Document
A copy of the permit documents shall
be kept and maintained on site and
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request 2024-03-26

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	6
D.C.L.-A-9	9

6	ISSUED FOR ENGINEERING	26/01/24	CB
5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

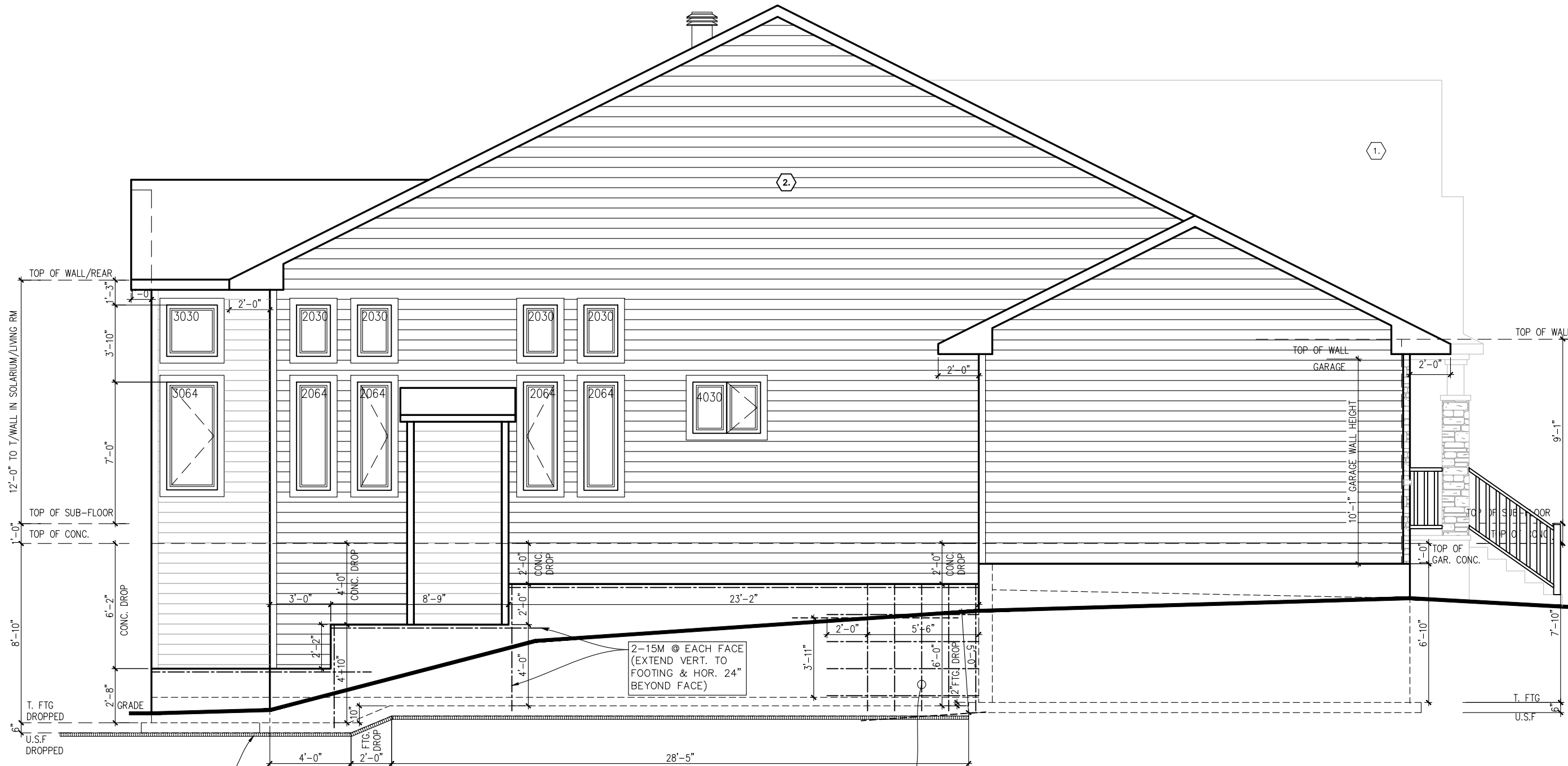
SPRINGFIELD C - 2022

SITE: WHITE TAIL RIDGE

LOT NUMBER: 142

CIVIC ADDRESS: 131 FRANK FISHER CRESCENT

PHOENIX HOMES



LEFT SIDE ELEVATION C

[OBC 9.15.4.2]
WHERE DISTANCE IS GREATER THAN 3'-11"
BETWEEN GRADE AND TOP OF CONCRETE SLAB
REINFORCE WALL W/ 15M(VERT.& HOR.) @ 16" o/c
& 15M BENT DOWELS (32"x12") @ 16" o/c

Certified Permit Document
A copy of the permit documents shall
be kept and maintained on site and
made available to an inspector upon
request 2024-03-26

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	D.C.L.-A-9

6	ISSUED FOR ENGINEERING	26/01/24	CB
5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

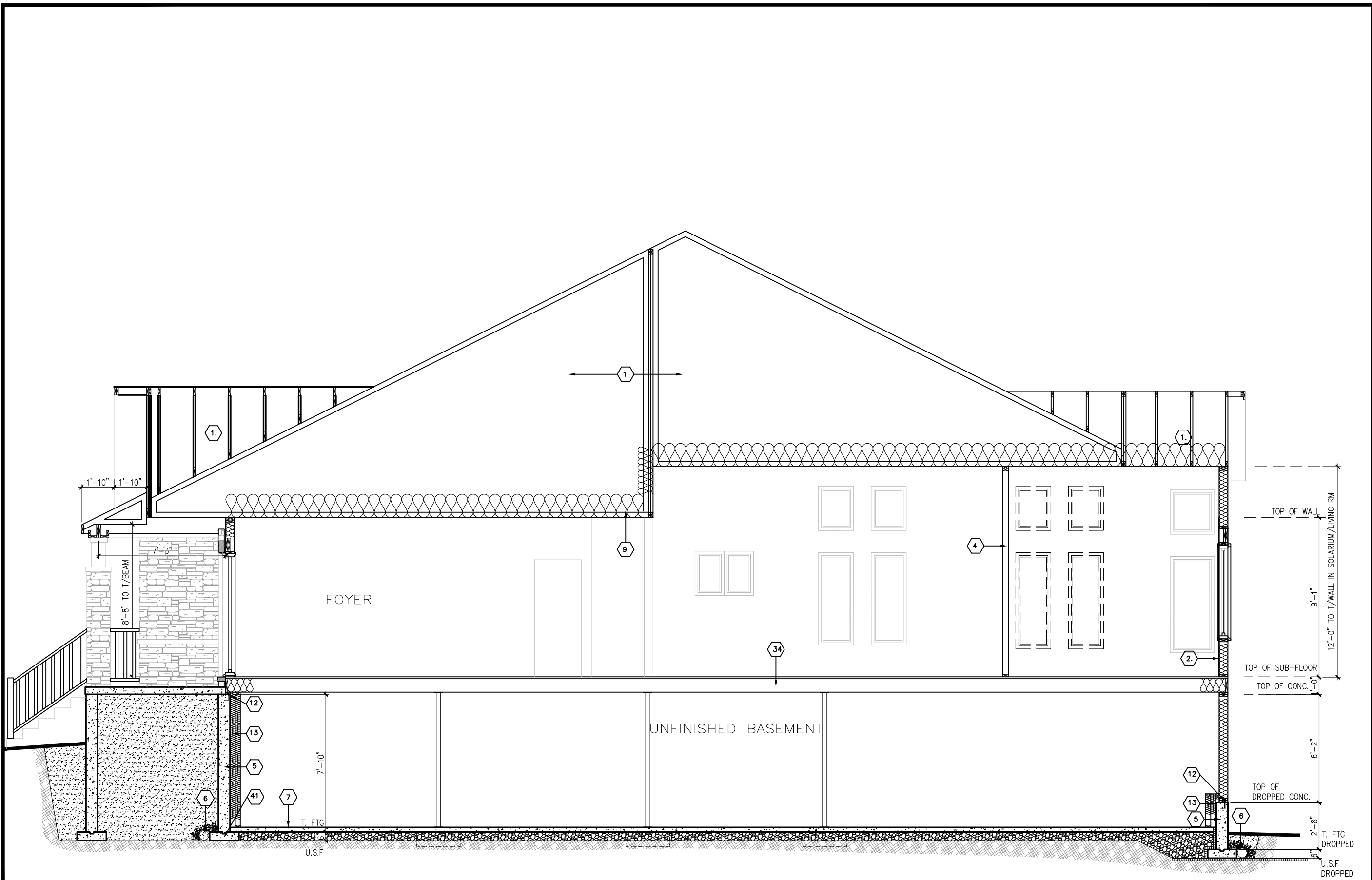
SPRINGFIELD C - 2022

SITE: WHITE TAIL RIDGE

LOT NUMBER: 142

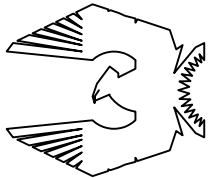
CIVIC ADDRESS:
131 FRANK FISHER CRESCENT

PHOENIX HOMES



ELEVATION C
SECTION A

Certified Permit Document
A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26



PHOENIX HOMES

SPRINGFIELD C – 2022

SITE: WHITE TAIL RIDGE

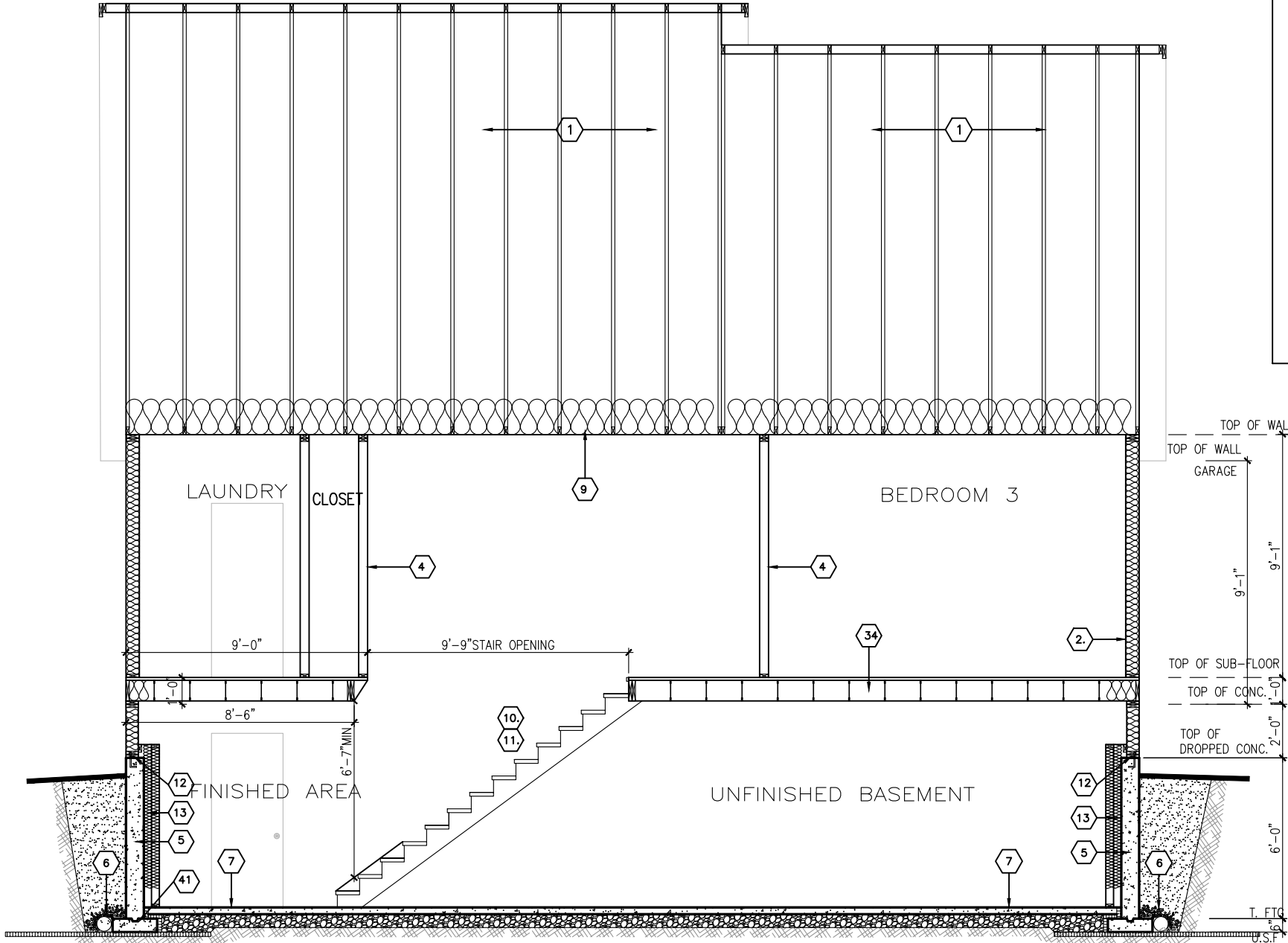
LOT NUMBER:

142

CIVIC ADDRESS:
131 FRANK FISHER CRESCENT

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5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY – FOR PRICING & LAYOUTS	10/02/22	SP
No.	Description	dd/mm/yy	By
REVISIONS			

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	8 / 9
D.C.L. – A-9	



ALL ELEVATIONS
SECTION B

Certified Permit Document
A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26

footprint:	B-24
drawn by:	SD
date:	SEP/12
scale:	3/16"=1'-0"
sheet no:	D.C.L.-A-9
9/9	

No.	Description	dd/mm/yy	By
6	ISSUED FOR ENGINEERING	26/01/24	CB
5	BEP BLACKLINES	15/01/24	CB
4	B1 PRELIM BLACKLINES	20/11/23	CB
3	PRIMARY ENSUITE SHOWER UPDATE	09/05/23	SP
2	ISSUED FOR MASTER PLAN REVIEW	15/08/22	SP
1	PRELIMINARY - FOR PRICING & LAYOUTS	10/02/22	SP

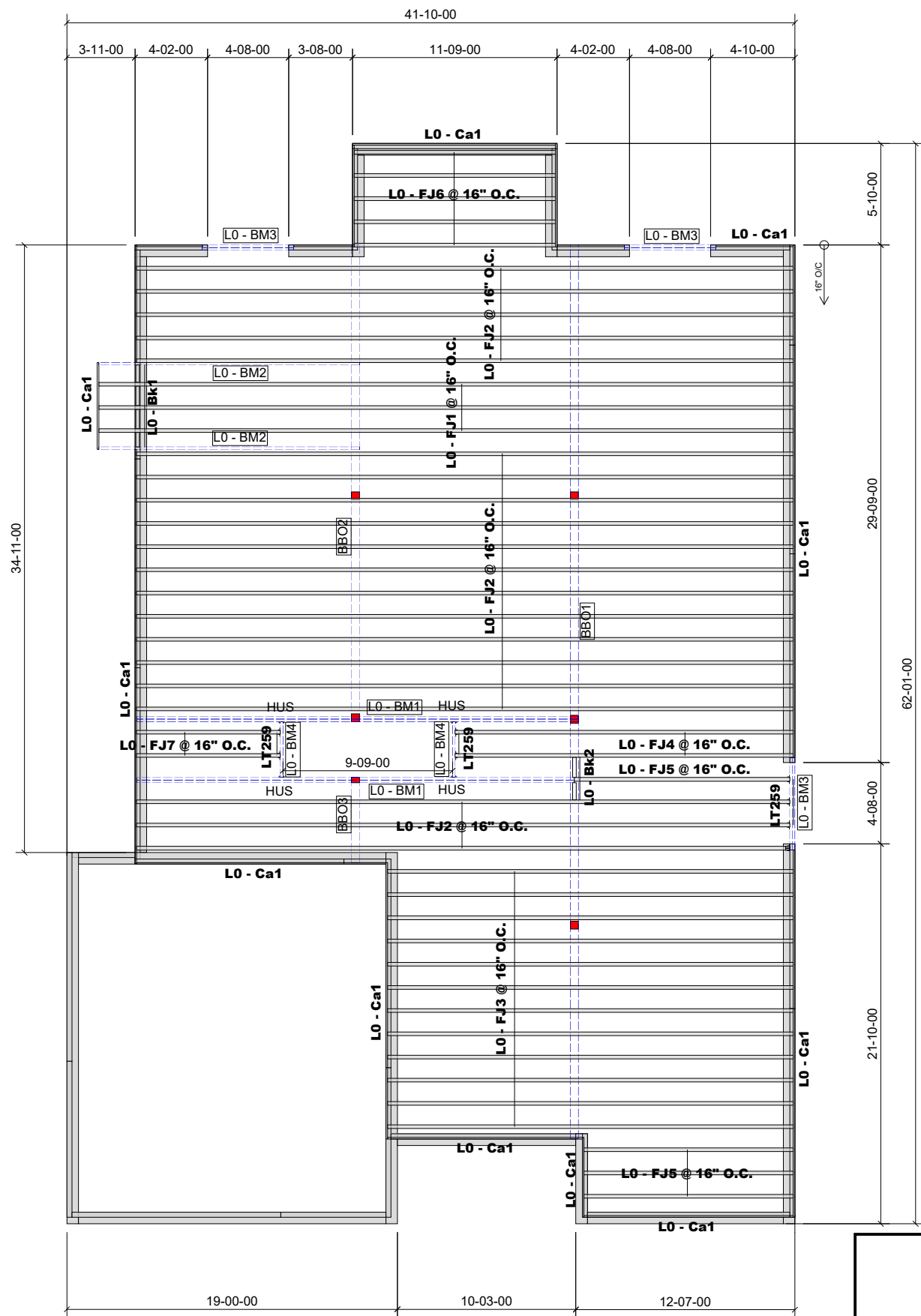
SPRINGFIELD C - 2022

SITE: WHITE TAIL RIDGE

LOT NUMBER: 142

CIVIC ADDRESS: 131 FRANK FISHER CRESCENT

PHOENIX HOMES



GLUED AND NAILED

LEVEL AND FLOOR CONTAINER NOTES	
Current Date:	1/25/2024
File Name:	Springfield C Sunroom.mmdl
Level Name:	1st Floor
Building Code - Design Methodology:	NBCC 2015
Floor Container:	FC1
Floor Area Loading is:	40 Live Load & 15 Dead Load
Maximum Allowed Deflection	L/480 Live Load & L/240 Total Load

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
L0 - FJ1 @ 16" O.C.	40-00-00	9 1/2" NI-20	1	3	MFD
L0 - FJ2 @ 16" O.C.	38-00-00	9 1/2" NI-20	1	20	MFD
L0 - FJ3 @ 16" O.C.	24-00-00	9 1/2" NI-20	1	12	MFD
L0 - FJ4 @ 16" O.C.	20-00-00	9 1/2" NI-20	1	2	MFD
L0 - FJ5 @ 16" O.C.	13-00-00	9 1/2" NI-20	1	4	MFD
L0 - FJ6 @ 16" O.C.	12-00-00	9 1/2" NI-20	1	5	MFD
L0 - FJ7 @ 16" O.C.	9-00-00	9 1/2" NI-20	1	2	MFD
L0 - BM1	26-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	4	MFD
L0 - BM2	15-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	2	MFD
L0 - BM3	6-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	6	MFD
L0 - BM4	4-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	2	MFD
L0 - Ca1	12-00-00	1 1/8" x 9 1/2" APA Rim Board	1	16	FF
L0 - Bk1	5-00-00	9 1/2" NI-20	1	1	FF
L0 - Bk2	3-00-00	9 1/2" NI-20	1	1	MFD

Accessories					
PlotID	Length	Product	Plies	Net Qty	Fab Type
3/4" Plywood or OSB (23/32" APA Rated Sheathing 48/24 Exposure 1)			1	58	MFD

Connector Summary				
Qty	Manuf	Product	Skew	Supported Mtl
8	SIMPSON	LT259	-	9 1/2" NI-20
4	SIMPSON	HUS18110	-	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL

Certified Permit Document
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THIS DESIGN COMPLIES WITH:

- PART 4 OR 9 OF OBC 2012 Reg. 332/12 (Jan 2020 Amendment)
- NORDIC LAM CCMC: 13216-R
- NORDIC JOISTS CCMC: 13032-R
- WEST FRASER CCMC: 12904

(REFER TO INDIVIDUAL FLOOR DRAWINGS FOR SPECIFIC LOADS & SPACING)

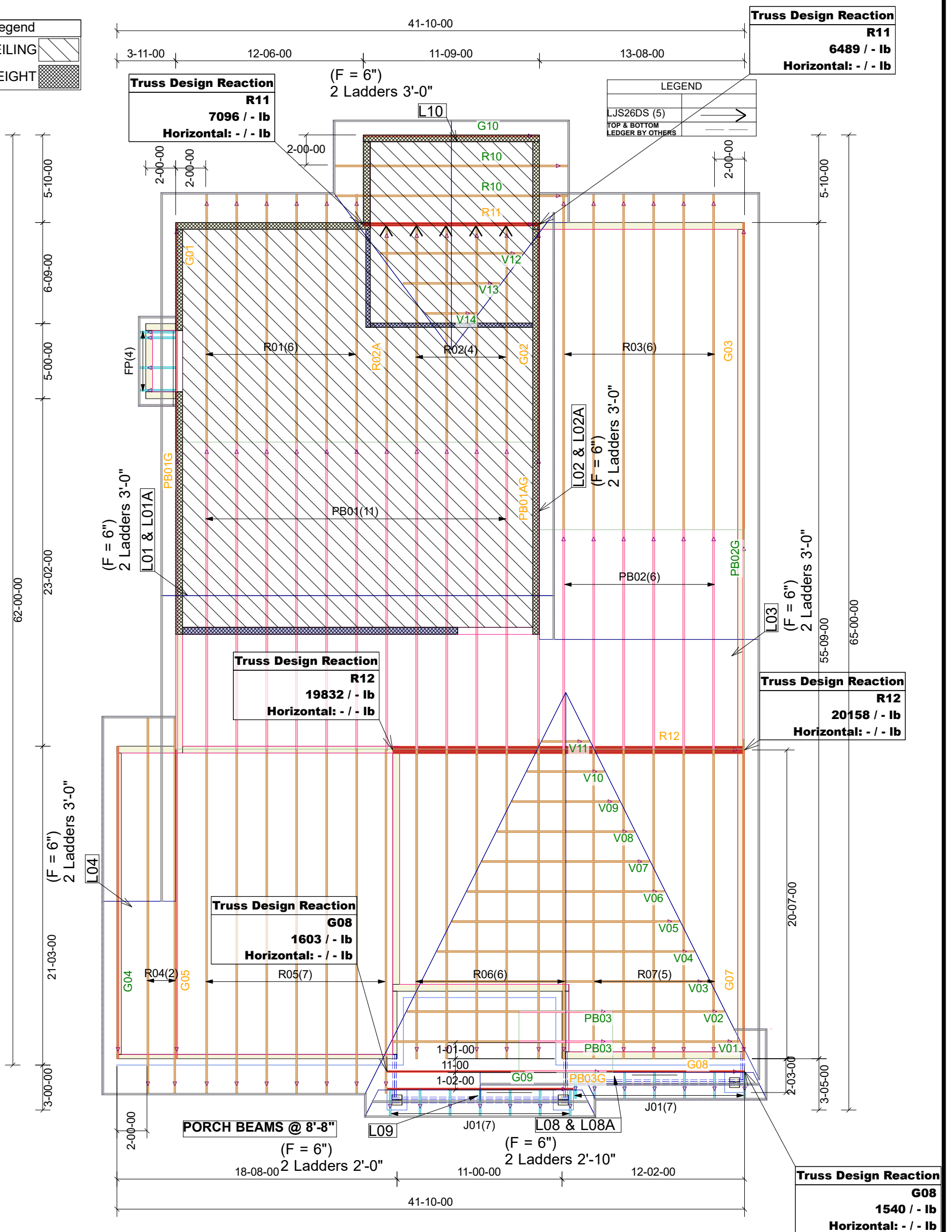
FLOOR NOTES:

- FLOOR JOIST SYSTEMS ABOVE THE GARAGE HAS BEEN DESIGNED WITHOUT A DIRECTLY APPLIED CEILING. USE APPLICABLE BLOCKING OR STRAPPING WHERE REQUIRED AS INDICATED ON THE FRAMING PLAN.
- BLOCKING MATERIAL WILL BE SUPPLIED AND INDICATED AS "BLOCKING". NO LONGER ONLY 12' LENGTHS.



GRANDOR LUMBER INC.
ALPA LUMBER GROUP

JOB:
PHOENIX HOMES
SPRINGFIELD C
W/ SUNROOM
1ST FLOOR 1 OF 1



DATE: 8/2/2022

Furn GMEC960603BNA

x5' 10"x23 1/4" CAE & 63" Plenum

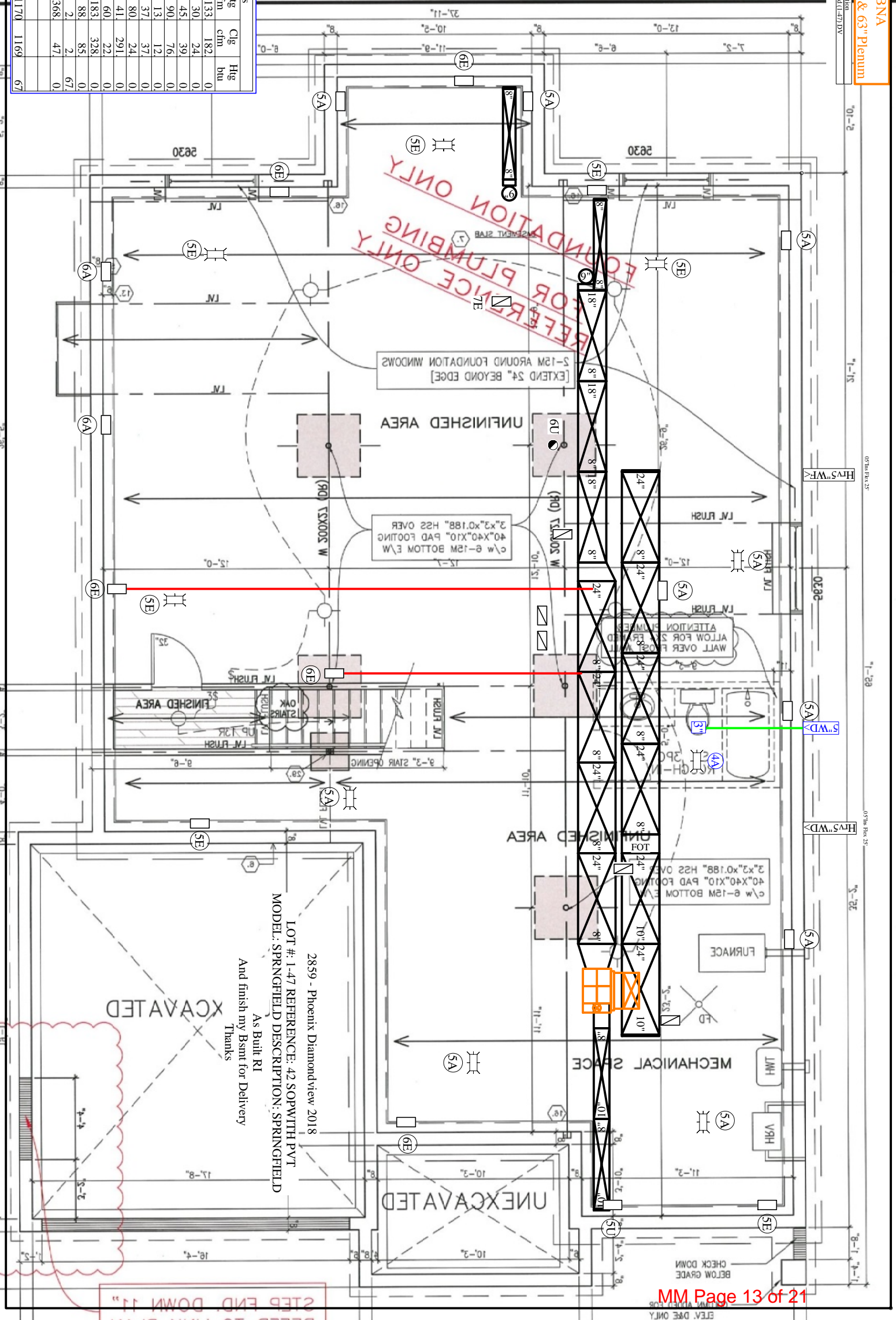
Date: 190311.4A Springfield SunRoom Std (1-47) DV

Description:

Certified Permit Document

A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26

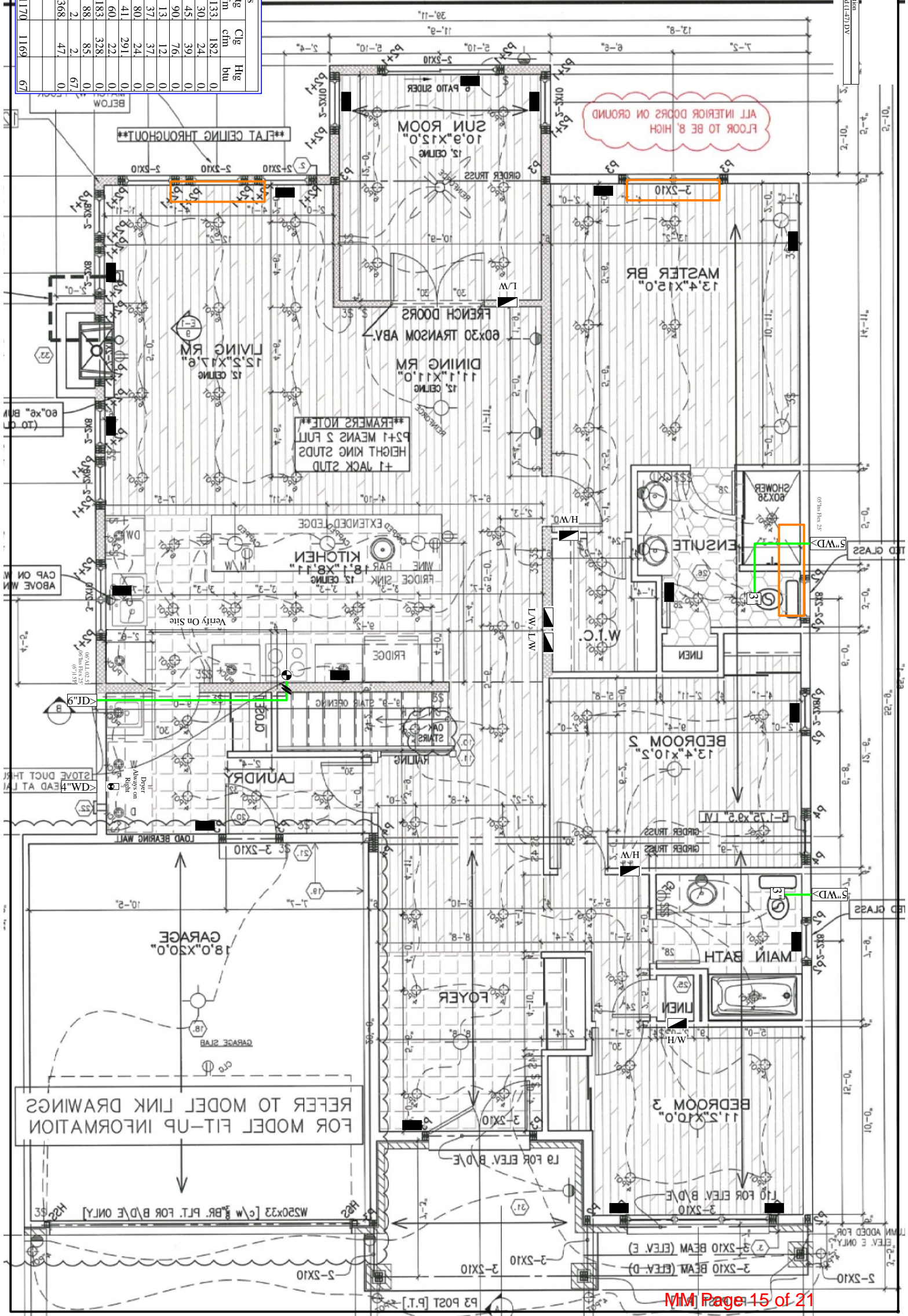
Heat Loss				
Room Name	Htg cfm	Ctg cfm	Htg btu	
1-SUNROOM	133	182	0	
1-BATH	30	24	0	
1-BEDROOM 2	45	39	0	
1-BEDROOM 3	90	76	0	
1-DININGROOM	13	12	0	
1-ENSUITE	37	37	0	
1-FOYER	80	24	0	
1-KITCHEN	41	291	0	
1-LAUNDRY	60	22	0	
1-LIVINGROOM	183	328	0	
1-MASTERBEDROOM	88	85	0	
1-W.C.	2	2	67	
BASEMENT	368	47	0	
	1170	1169	67	



Heat Loss				
Room Name	Htg cfm	Ctg cfm	Htg btu	
1-SUNROOM	133	182	0	
1-BATH	30	24	0	
1-BEDROOM 2	45	39	0	
1-BEDROOM 3	90	76	0	
1-DININGROOM	13	12	0	
1-ENSUITE	37	37	0	
1-FOYER	80	24	0	
1-KITCHEN	41	291	0	
1-LAUNDRY	60	22	0	
1-LIVINGROOM	183	328	0	
1-MASTERBEDROOM	88	85	0	
1-W.I.C.	2	2	67	
BASEMENT	368	47	0	
	1170	1169	67	

Certified Permit Document

A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26



Energy Efficiency Design Summary: Prescriptive Method

(Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/skylights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

For use by Principal Authority	
Application No:	Model/Certification Number

A. Project Information

Building number, street name 131 Frank Fisher Crescent		Unit number	Lot/Con 142
Municipality Mississippi Mills	Postal code	Reg. Plan number / other description 27M-47	

B. Prescriptive Compliance [indicate the building code compliance package being employed in this house design]

SB-12 Prescriptive (input design package):	Package: <u>A1</u>	Table: <u>3.1.1.2.A(IP)</u>
--	--------------------	-----------------------------

C. Project Design Conditions


Climatic Zone (SB-1):	Heating Equipment Efficiency	Space Heating Fuel Source
<input checked="" type="checkbox"/> Zone 1 (< 5000 degree days)	<input checked="" type="checkbox"/> ≥ 92% AFUE	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Propane <input type="checkbox"/> Solid Fuel
<input type="checkbox"/> Zone 2 (≥ 5000 degree days)	<input type="checkbox"/> ≥ 84% < 92% AFUE	<input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Earth Energy
Ratio of Windows, Skylights & Glass (W, S & G) to Wall Area		Other Building Characteristics
Area of walls = _____ m ² or <u>3200</u> ft ²	W, S & G % = <u>12.6</u>	<input type="checkbox"/> Log/Post&Beam <input type="checkbox"/> ICF Above Grade <input type="checkbox"/> ICF Basement
Area of W, S & G = _____ m ² or <u>402</u> ft ²	Utilize window averaging: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Slab-on-ground <input type="checkbox"/> Walkout Basement
		<input type="checkbox"/> Air Conditioning <input type="checkbox"/> Combo Unit
		<input type="checkbox"/> Air Sourced Heat Pump (ASHP)
		<input type="checkbox"/> Ground Sourced Heat Pump (GSHP)

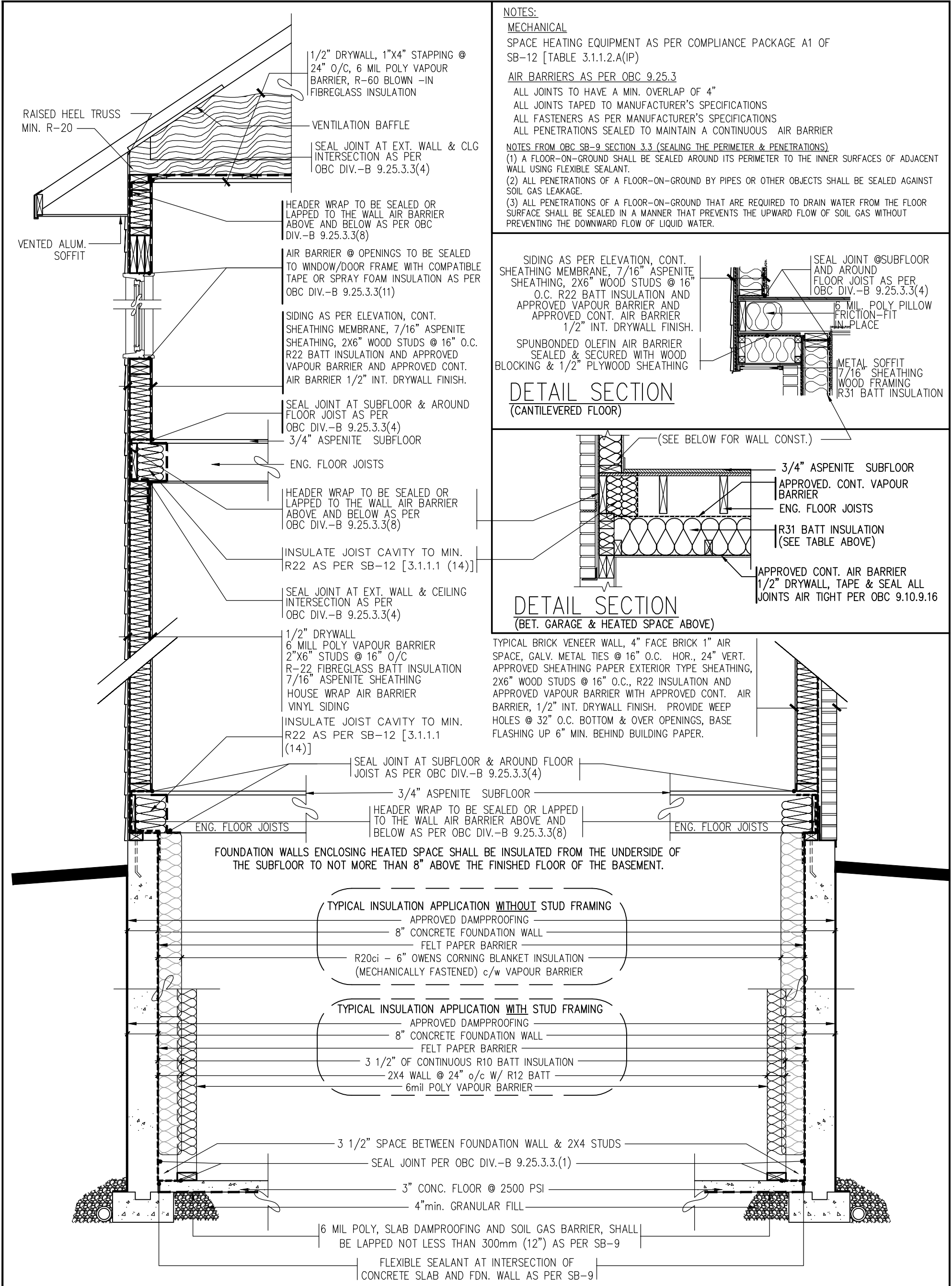
D. Building Specifications [provide values and ratings of the energy efficiency components proposed]

Energy Efficiency Substitutions				
<input type="checkbox"/> ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6))				
<input type="checkbox"/> Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7))				
<input type="checkbox"/> Airtightness substitution(s)				
Airtightness test required (Refer to Design Guide Attached)		Table 3.1.1.4.B Required: _____ Permitted Substitution: _____		
		Table 3.1.1.4.C Required: _____ Permitted Substitution: _____		
		Required: _____ Permitted Substitution: _____		
Building Component	Minimum RSI / R values or Maximum U-Value ⁽¹⁾		Building Component	Efficiency Ratings
Thermal Insulation	Nominal	Effective	Windows & Doors Provide U-Value ⁽¹⁾ or ER rating	
Ceiling with Attic Space	R60		Windows/Sliding Glass Doors	25
Ceiling without Attic Space	R31		Skylights/Glazed Roofs	0.49
Exposed Floor	R31		Mechanicals	
Walls Above Grade	R22		Heating Equip.(AFUE)	96%
Basement Walls		R21.12	HRV Efficiency (SRE% at 0° C)	75%
Slab (all >600mm below grade)	---		DHW Heater (EF)	0.8
Slab (edge only ≤600mm below grade)	R10		DWHR (CSA B55.1 (min. 42% efficiency))	# Showers <u>1</u>
Slab (all ≤600mm below grade, or heated)	R10		Combined Heating System	NO

(1) U value to be provided in either W/(m²•K) or Btu/(h•ft²•F) but not both.

E. Designer(s) [name(s) & BCIN(s), if applicable, of person(s) providing information herein to substantiate that design meets the building code]

Qualified Designer Declaration of designer to have reviewed and take responsibility for the design work.		
Name Catherine Buck	BCIN 46674	Signature 



NOTES:

MECHANICAL

SPACE HEATING EQUIPMENT AS PER COMPLIANCE PACKAGE A1 OF SB-12 [TABLE 3.1.1.2.A(IP)]

AIR BARRIERS AS PER OBC 9.25.3

ALL JOINTS TO HAVE A MIN. OVERLAP OF 4"

ALL JOINTS TAPED TO MANUFACTURER'S SPECIFICATIONS

ALL FASTENERS AS PER MANUFACTURER'S SPECIFICATIONS

ALL PENETRATIONS SEALED TO MAINTAIN A CONTINUOUS AIR BARRIER

NOTES FROM OBC SB-9 SECTION 3.3 (SEALING THE PERIMETER & PENETRATIONS)

(1) A FLOOR-ON-GROUND SHALL BE SEALED AROUND ITS PERIMETER TO THE INNER SURFACES OF ADJACENT WALL USING FLEXIBLE SEALANT.

(2) ALL PENETRATIONS OF A FLOOR-ON-GROUND BY PIPES OR OTHER OBJECTS SHALL BE SEALED AGAINST SOIL GAS LEAKAGE.

(3) ALL PENETRATIONS OF A FLOOR-ON-GROUND THAT ARE REQUIRED TO DRAIN WATER FROM THE FLOOR SURFACE SHALL BE SEALED IN A MANNER THAT PREVENTS THE UPWARD FLOW OF SOIL GAS WITHOUT PREVENTING THE DOWNWARD FLOW OF LIQUID WATER.

SIDING AS PER ELEVATION, CONT.
SHEATHING MEMBRANE, 7/16" ASPENITE
SHEATHING, 2X6" WOOD STUDS @ 16"
O.C. R22 BATT INSULATION AND
APPROVED VAPOUR BARRIER AND
APPROVED CONT. AIR BARRIER
1/2" INT. DRYWALL FINISH.

SPUNBONDED OLEFIN AIR BARRIER
SEALED & SECURED WITH WOOD
BLOCKING & 1/2" PLYWOOD SHEATHING

DETAIL SECTION
(CANTILEVERED FLOOR)

SEAL JOINT @SUBFLOOR
AND AROUND
FLOOR JOIST AS PER
OBC DIV.-B 9.25.3.3(4)
6 MIL. POLY PILLLOW
FRICTION-FIT
IN PLACE
METAL SOFFIT
7/16" SHEATHING
WOOD FRAMING
R31 BATT INSULATION

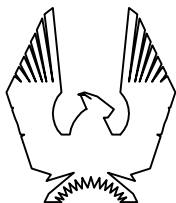
(SEE BELOW FOR WALL CONST.)
3/4" ASPENITE SUBFLOOR
APPROVED. CONT. VAPOUR
BARRIER
ENG. FLOOR JOISTS
R31 BATT INSULATION
(SEE TABLE ABOVE)

DETAIL SECTION
(BET. GARAGE & HEATED SPACE ABOVE)

TYPICAL BRICK VENEER WALL, 4" FACE BRICK 1" AIR
SPACE, GALV. METAL TIES @ 16" O.C. HOR., 24" VERT.
APPROVED SHEATHING PAPER EXTERIOR TYPE SHEATHING,
2X6" WOOD STUDS @ 16" O.C., R22 INSULATION AND
APPROVED VAPOUR BARRIER WITH APPROVED CONT. AIR
BARRIER, 1/2" INT. DRYWALL FINISH. PROVIDE WEEP
HOLES @ 32" O.C. BOTTOM & OVER OPENINGS, BASE
FLASHING UP 6" MIN. BEHIND BUILDING PAPER.

TYP. DETAIL SECTION (PARTIAL)
FOR SIDING APPLICATION

TYP. DETAIL SECTION (PARTIAL)
FOR BRICK VENEER APPLICATION



PHOENIX HOMES

SB-12 COMPLIANCE PACKAGE
DETAILS (ALL MODELS)

Certified Permit Document

A copy of the permit documents shall
be kept and maintained on site and
made available to an inspector upon
request 2024-03-26



No.	Description	Date	By
4	SB-12 - 2022 UPDATE	JAN - 2022	SP
3	SB-12 - 2017 UPDATE	JAN - 2017	SP
2	ADDED CANTILEVERED FLOOR DETAIL	MAR28-12	TL
1	OBC SB-9 & SB-12 COMPLIANCE PACKAGE	JAN22-12	TL
REVISIONS			

footprint:

drawn by: SP

date:

scale: N/A

sheet no:

SB-12
DETAILS



January 29, 2024

Kollaard File # 240020 – LOT142

Phoenix Homes
18A Bentley Avenue
Ottawa, Ontario
K2E 6T8

Attn: Catherine Buck
Tel: 613-723-9227 x 191
Email: CBuck@phoenixhomes.ca



Re: Proposed Single Family Dwelling, 131 Frank Fisher Crescent, Lot # 142 White Tail Ridge, Arnprior, Kollaard Associates File # 240020

With regard to structural issues only, Kollaard Associates has reviewed the following drawings:

- Phoenix Homes, Lot # 142 White Tail Ridge, Pages # 1 to 9, Dated 26/01/2024
- Grandor Lumber Inc., Roof Truss Layout, Springfield 'C', Dated 08/02/2022
- Grandor Lumber Inc., 1st Floor Joist Layout, Springfield C w/ Sunroom, Dated 2024/01/25

Kollaard Associates offers the following comments:

Ground Floor Plan – Pages # 3:

1. It is the opinion of Kollaard Associates that the proposed beams, lintels and supporting posts shown on Phoenix Homes Pages # 3 are adequate.
2. The proposed tall wall construction (including posts supporting lintels within the tall wall) noted on Phoenix Homes Pages # 1 is adequate.
3. Posts supporting girders may consist of built up 2x6 posts as indicated on Phoenix Homes Pages # 3 and are laterally supported by plywood or OSB sheathing (i.e. posts form part of sheathed exterior walls unless noted).
4. Truss design is by others.

Basement Plan – Pages # 2:

5. It is the opinion of Kollaard Associates that the proposed steel beams, steel posts and built-up wood posts shown on Phoenix Homes Pages # 2 are adequate.

6. The front porch slab reinforcement described on Phoenix Homes Pages # 1 is adequate.
7. The proposed 7'-10" high foundation walls conform to 2012 OBC Table 9.15.4.2.A. ensuring the grade difference between the basement slab and the exterior finished grade (including the garage slab) does not exceed 7'-6½".
8. The reduction in foundation wall thickness for the installation of the masonry veneer is to be as per 2012 OBC 9.15.4.7.(2).
9. The proposed stepped down foundation walls with framed knee walls above conform to 2012 OBC Table 9.15.4.2.A. ensuring the grade difference between the basement slab and the exterior finished grade does not exceed 3'-11".
10. Where the grade difference between the basement slab and the exterior finished grade exceeds 3'-11" along the right side, the proposed foundation reinforcement noted on Phoenix Homes Pages # 6 and 7 are adequate to withstand the lateral earth pressures.
11. The strip footings and proposed interior pad footings shown on Phoenix Homes Page # 2 and noted on Phoenix Homes Page # 1 are adequate.
12. Floor joist design, flush LVL beams/lintels within the floor structure and LVL lintels are by the manufacturer. The posts supporting the flush LVL beams/lintels shown on Phoenix Homes Pages # 2 are adequate.

General Notes:

13. All gravity loads to be carried to foundation through solid blocking.
14. Truss design is by others.
15. Floor joist design, flush LVL beams within the floor structure and LVL lintels are by the manufacturer.
16. The self supporting stairs are to be designed by the stair manufacturer.
17. All dimension lumber, except non-load bearing 8 ft 2x6 studs to be No.2 grade SPF or better.
18. Non-load bearing 8 ft 2x6 studs to be No.3 or Stud grade SPF or better.
19. All guards to be as per OBC SB-7, unless otherwise mentioned and designed by others.
20. All brick lintels to be as per OBC Table 9.20.5.2.B.
21. Unless otherwise noted, LVL to be 1.8E 3000Fb LVL (Canadian Limit States bending strength of at least 39.5 MPa) with 1¾" nominal width or better.
22. Pemco Steel adjustable posts are designed and approved by the manufacturer. The adjustable steel posts are designed for a maximum allowable load of 106.8 kN at a max. height of 9'-3".
23. All 3" x 3" x 3/16" HSS posts c/w 6" x 6" x 3/8" top and bottom bearing plates.
24. The assumed allowable soil bearing resistance of 100 kPa is to be verified prior to construction.

25. Note that the truss manufacturer/floor joist supplier has sized the flush LVL beams and girder trusses shown on the building drawings. The comments provided by Kollaard Associates in this report are based in part on the design indicated in the truss and floor layouts. If a different truss and/or floor layout is used in construction, comments made in this report may no longer be valid. Provide Kollaard Associates with the full truss package prior to construction.
26. Comments provided in this report are made in consideration of Part 9 and Part 4 (where applicable) of the 2012 OBC as amended.
27. This report constitutes a review of the structural information indicated on the building plans cited in this report for the client indicated above.

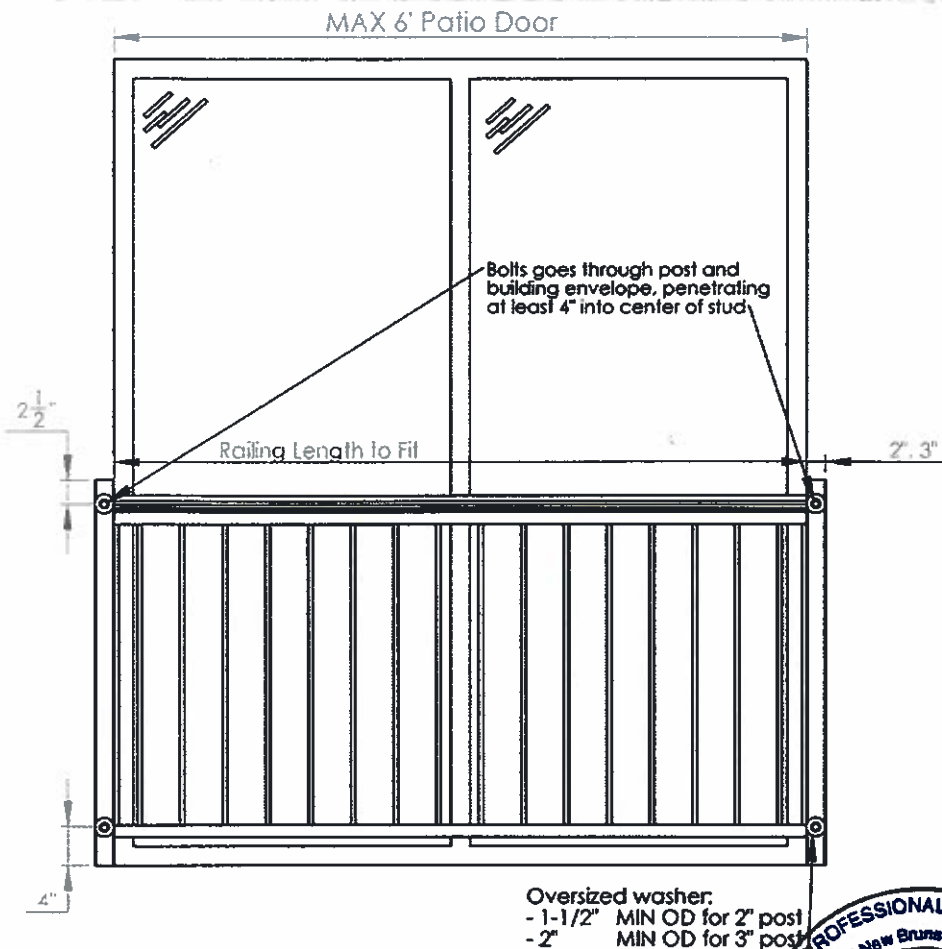
We trust this letter provides sufficient information for your present purposes. If you have any questions concerning this letter please do not hesitate to contact our office.

Sincerely,
Kollaard Associates Inc.



Christopher Cogliati, P.Eng.





Oversized washer:
 - 1-1/2" MIN OD for 2" post
 - 2" MIN OD for 3" post

- Drilled holes into 2" post must be no larger than 9/16" ϕ
- Drilled holes into 3" post must be no larger than 9/16" ϕ

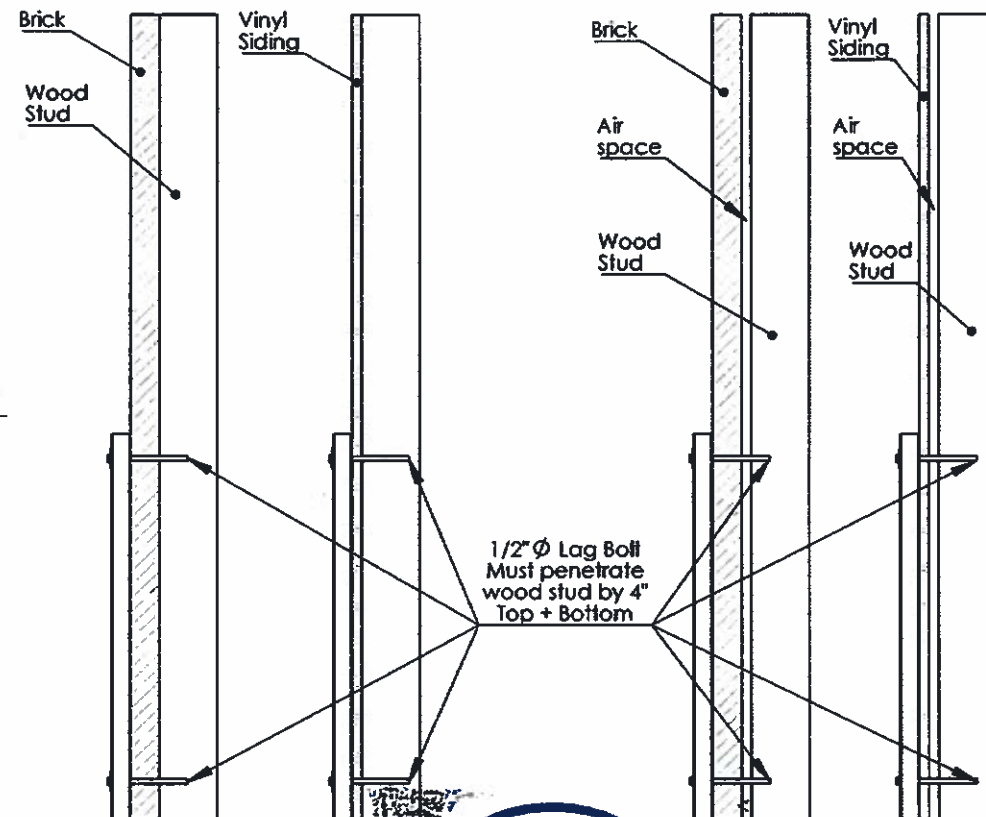
Meets the following building codes:

- NBCC 2010 (section 4.1.5.14* - Loads on Guards, section 9.8.8 - Guards)
- Ontario 2012 (section 4.1.5.14* - Loads on Guards, section 9.8.8 - Guards)
- * excludes clause 1(a)

Certified Permit Document
 A copy of the permit documents shall be kept and maintained on site and made available to an inspector upon request 2024-03-26

Notes:

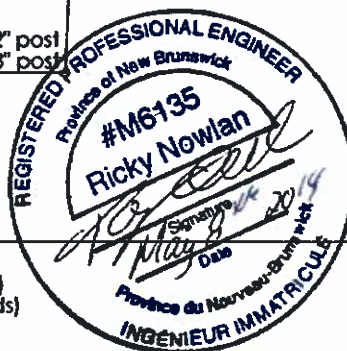
- Install anchors as per bolt manufacturer specifications
- Main structure load capacity responsibility of others



Without
Air space

With
Air space

1/2" ϕ Lag Bolt
 Must penetrate
 wood stud by 4"
 Top + Bottom



Imperial Manufacturing Group

40 Industrial Park St
 Richibucto, NB
 E4W 4A4
 Tel: 506-523-9117 Fax: 506-523-9024

PROPRIETARY AND CONFIDENTIAL
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TITLE:

Construction Drawing
 Kool Ray Pre-Assembled
 Juliette Railing for 6'(MAX) Patio Doors

SIZE **A** DWG. NO. **Z-KRES-004** REV

SCALE: NTS **Mar 14** SHEET 1 OF 1

MM Page 21 of 21