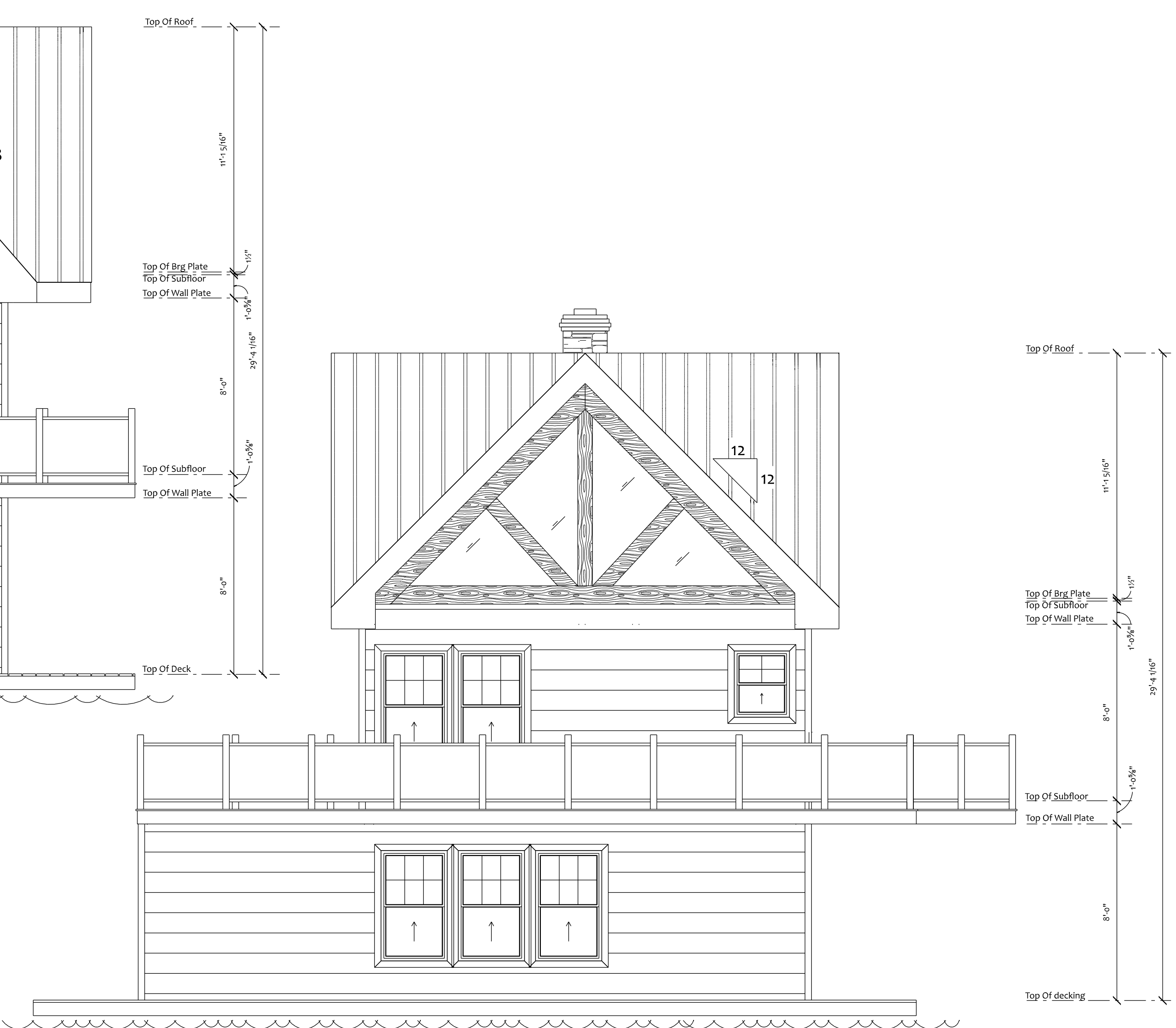
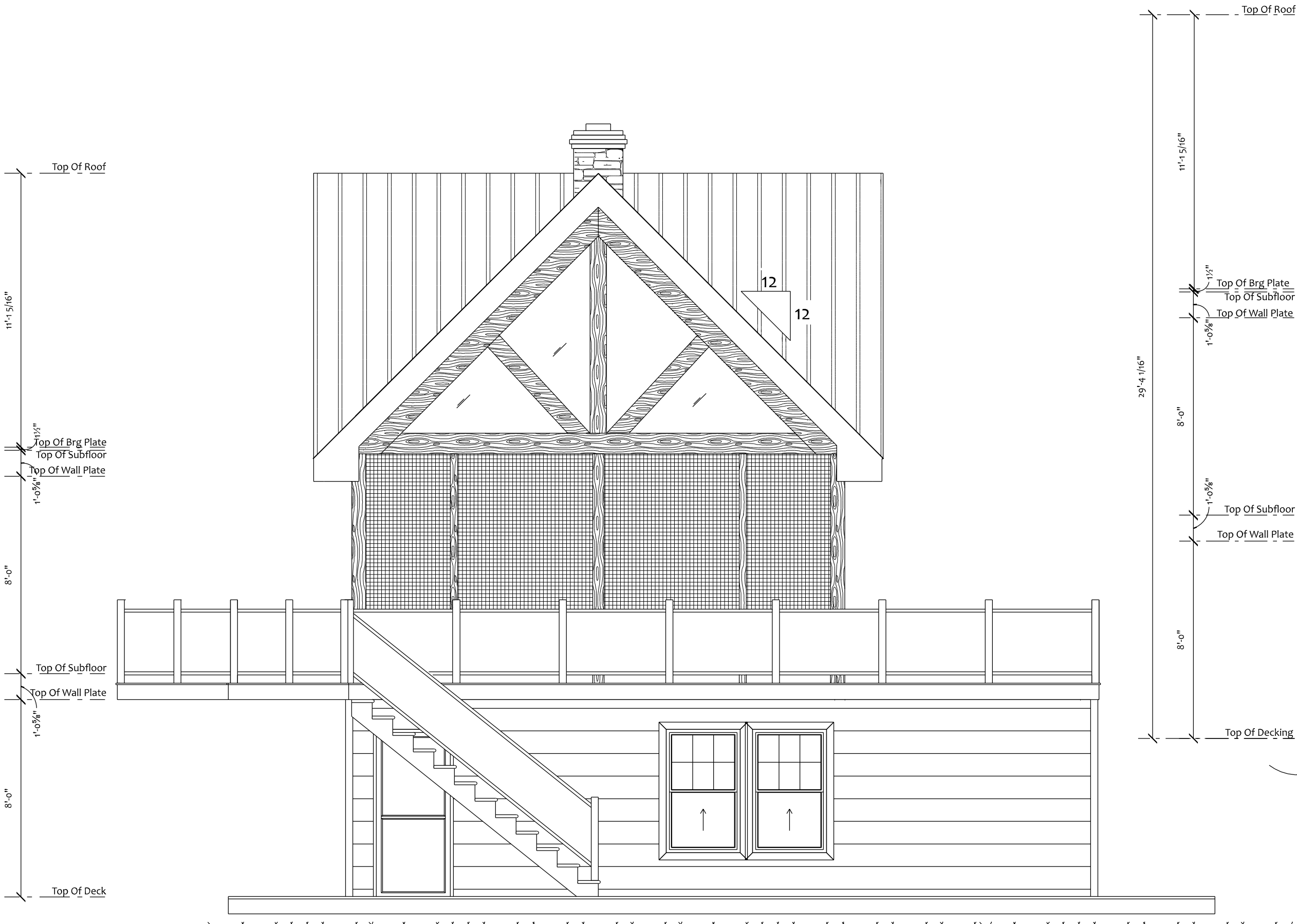




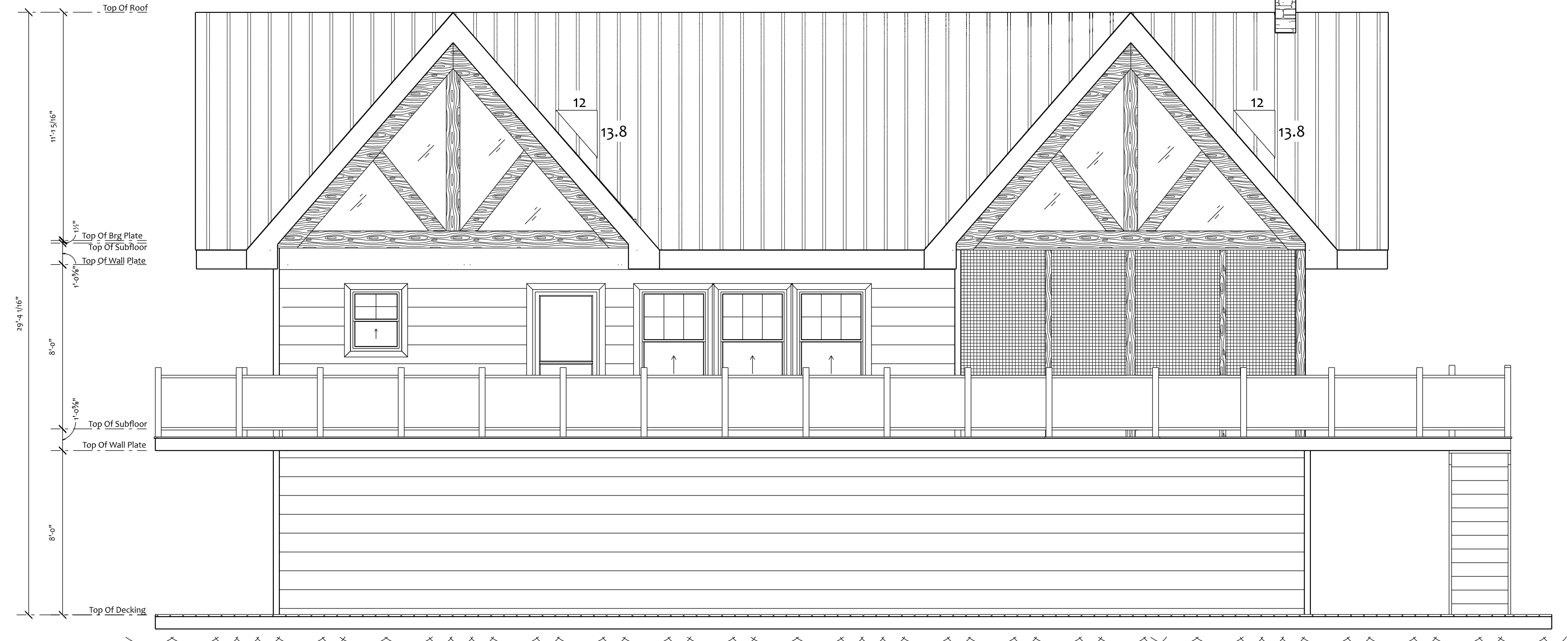
**Front Elevation**



**Right Elevation**



**Left Elevation**



**Rear Elevation**

**ELEVATION DRAWINGS**

elevation dwgs. are conceptual only.  
 grade may vary due to site conditions.  
 floor elevations may change due to final site conditions.  
 deck and railing conditions may change due to grade conditions on site.

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REV.	DESCRIPTION	DATE

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 Individual - 25464  
 Signature

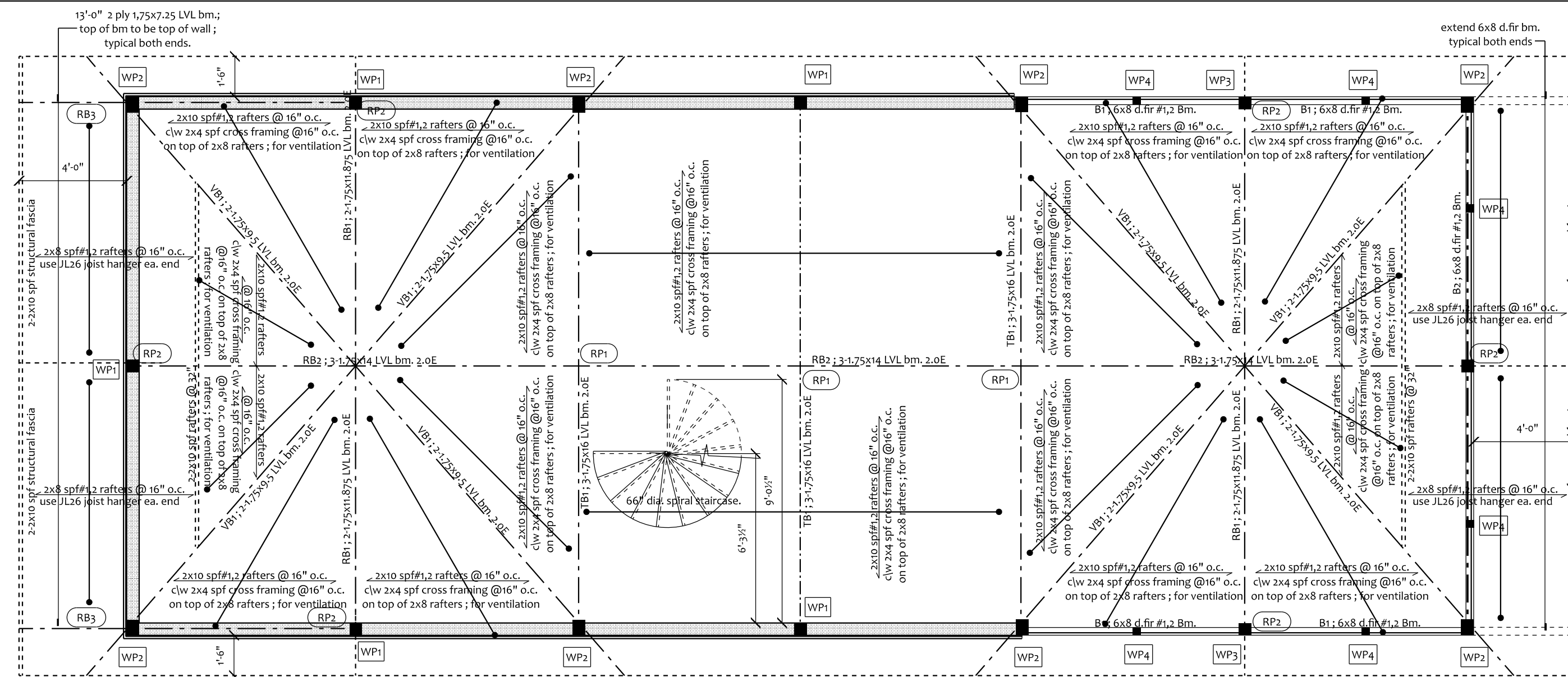
**CHD**  
 Computer Aided Design  
 P.O. Box 138, 219 Victoria St.  
 Magnetawan, Ont.  
 P0A 1P0  
 Cell(705)499-7896  
 den\_chd@customhomedesigns.ca

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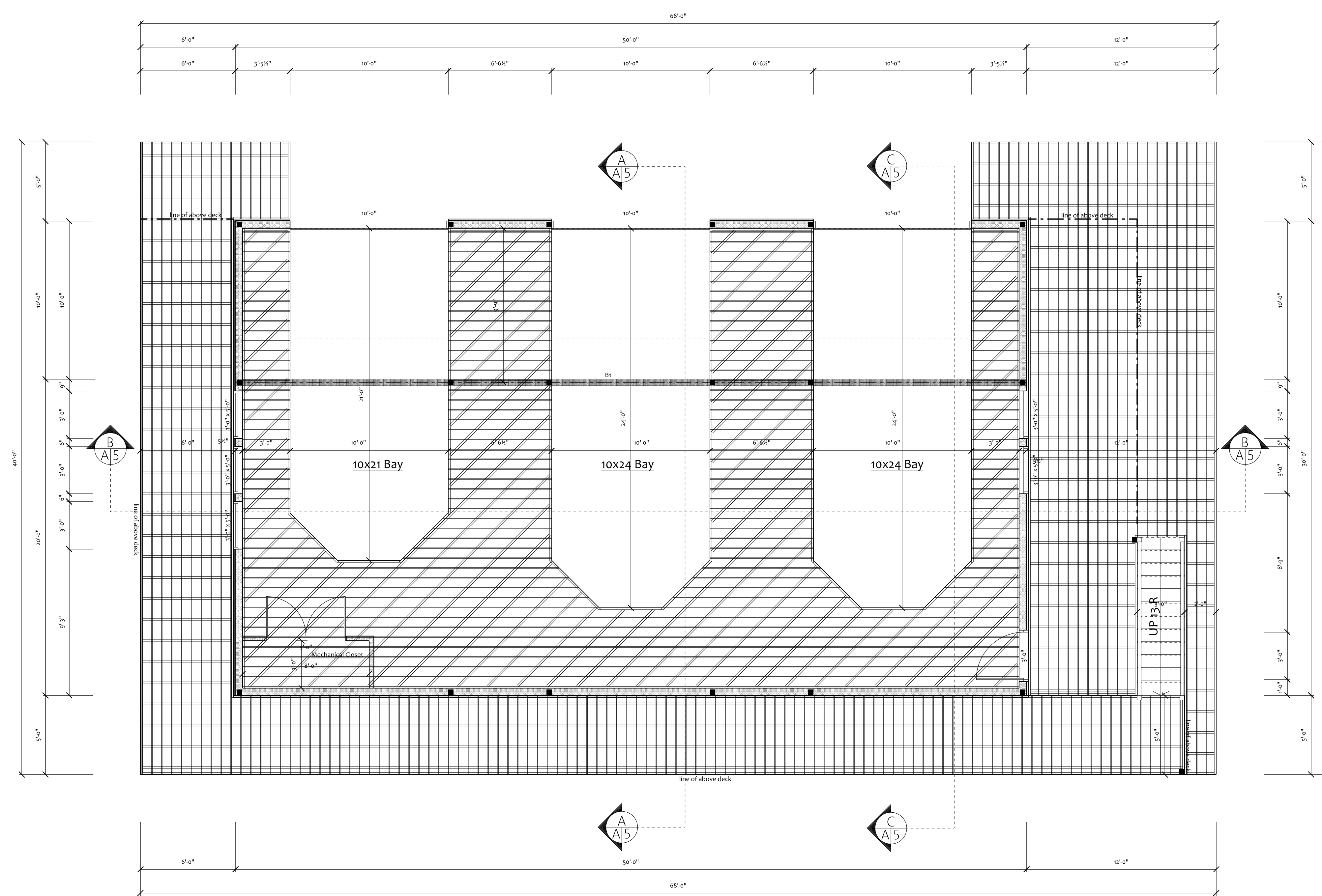
**PROJECT**  
 Herrnstein  
 Ahmic Boathouse

**TITLE**  
 Building Elevations

CHECKED BY	DAL	DATE	Mar. 2024
DRAWN BY	DAL	SCALE	1/4" = 1'0"
PROJECT	Herrnstein - 2024	PAGE No.	A-1



Roof Plan



Main Floor Plan

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Magnetawan, Ont.  
POA 1P0  
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den\_chd@customhomedesigns.ca

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PROJECT  
Herrnstein  
Ahmic Boathouse

TITLE  
Main Floor Plan

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DRAWN BY	DAL	SCALE	1/4" = 1'0"
PROJECT	Herrnstein - 2024	PAGE No.	A-2



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1	for permit issuance	09/27/21

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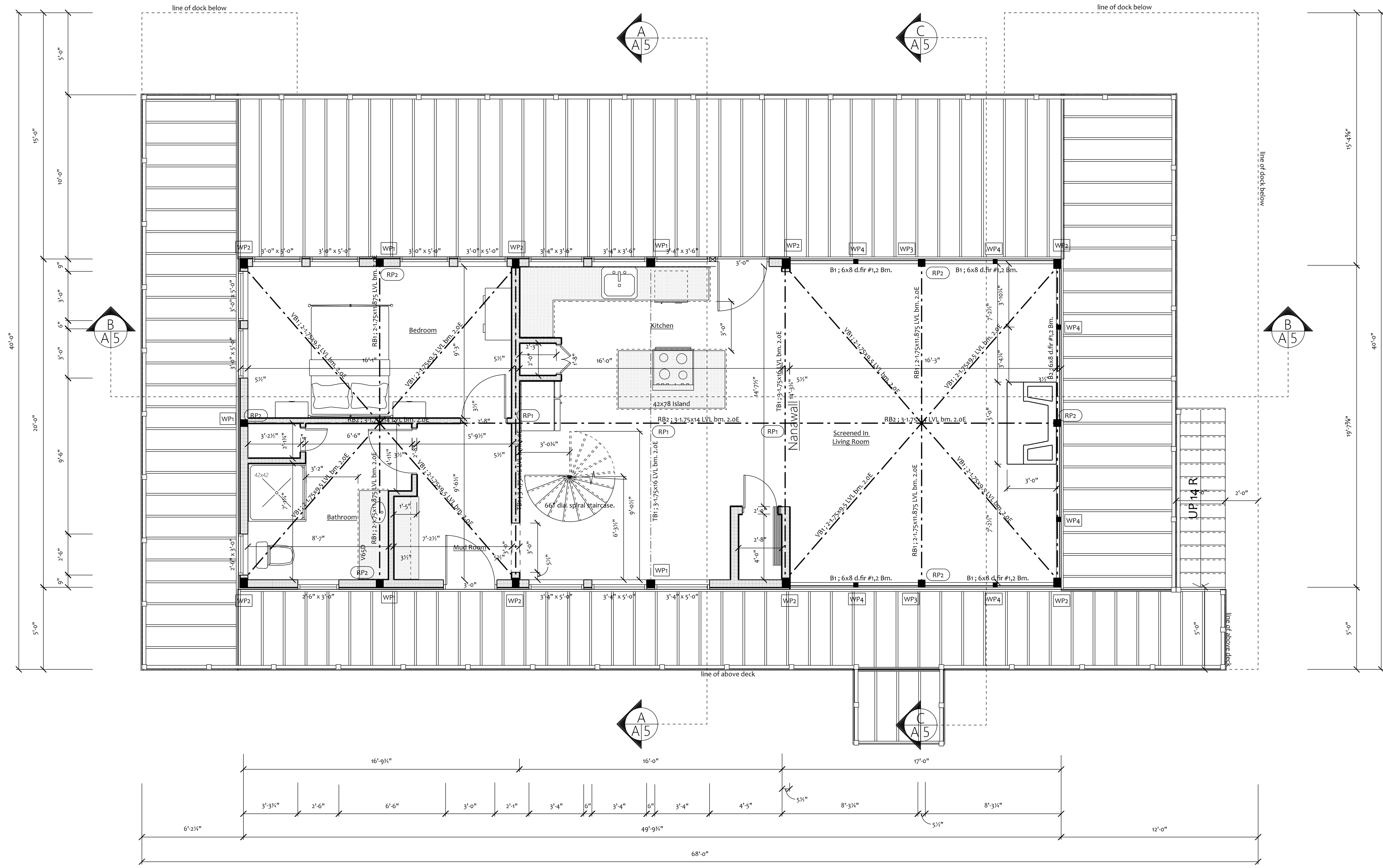
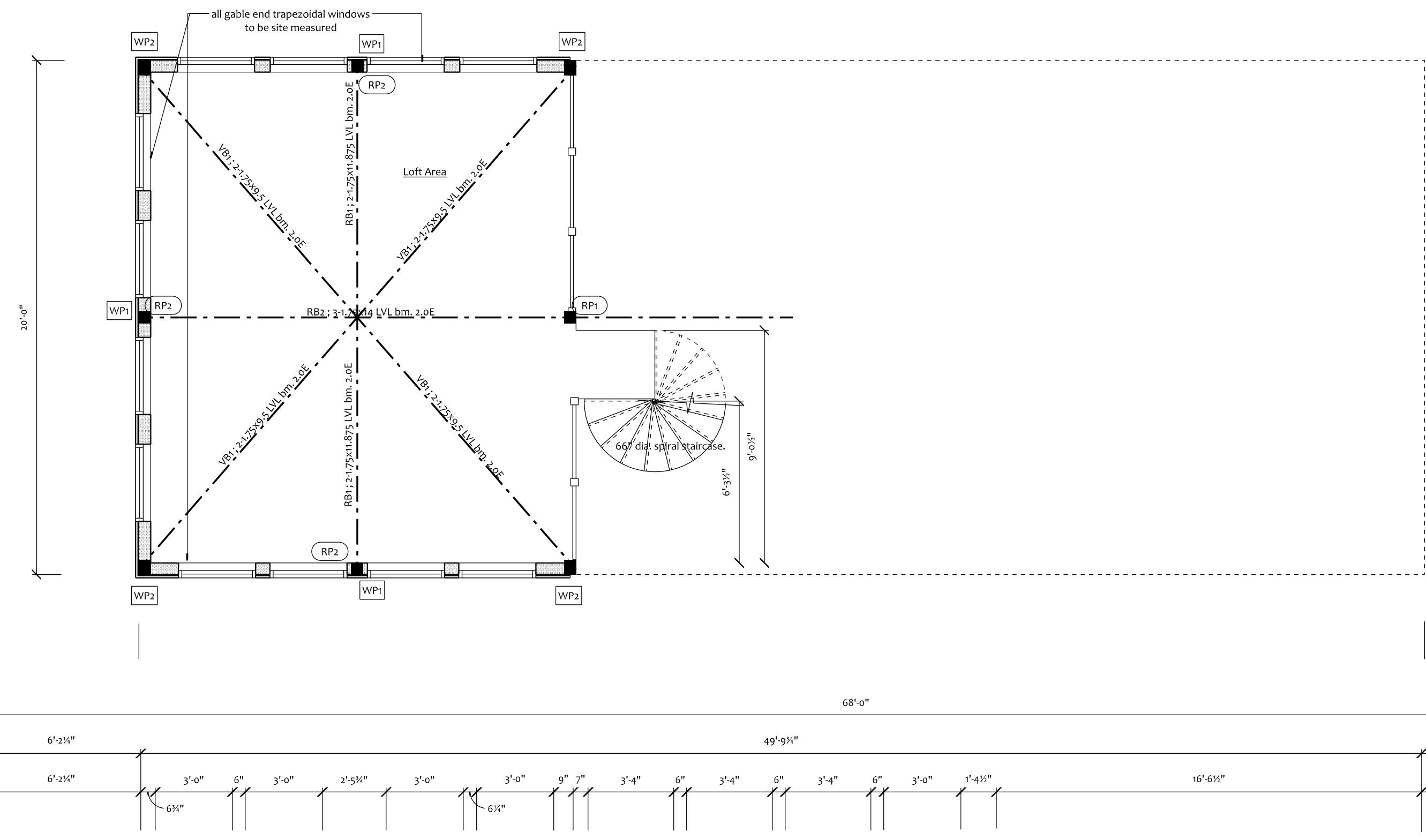
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**PROJECT**  
 Herrnstein  
 Ahmic Boathouse

**TITLE**  
 Upper Floor Plan  
 &  
 Loft Floor Plan

<b>CHECKED BY</b>	DAL	<b>DATE</b>	Mar. 2024
<b>DRAWN BY</b>	DAL	<b>SCALE</b>	1/4" = 1'0"
<b>PROJECT</b>	Herrnstein - 2024	<b>PAGE No.</b>	A-4

**Loft Floor Plan**



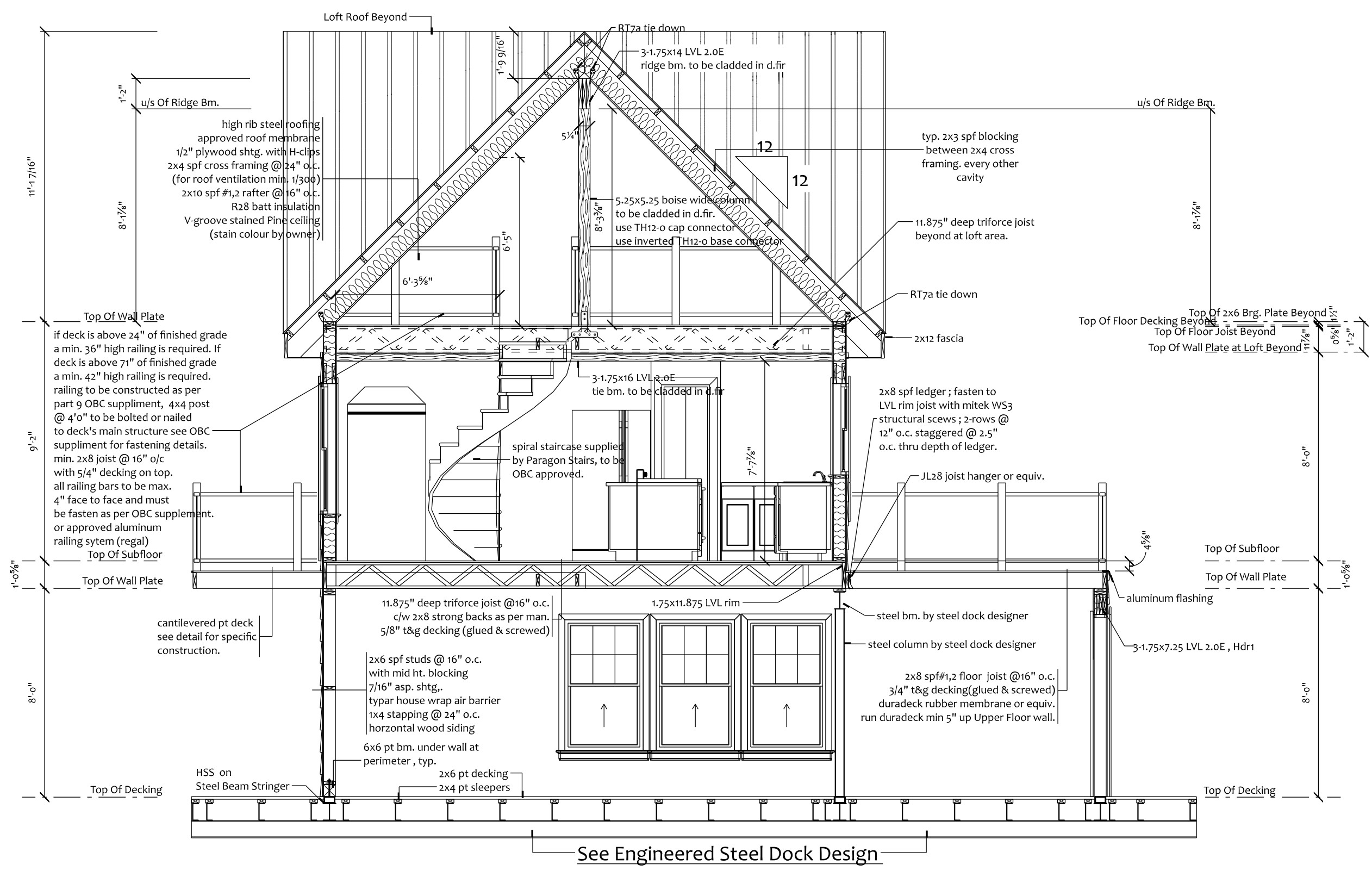
**Upper Floor Plan**

**BEAM / POST SCHEDULE**

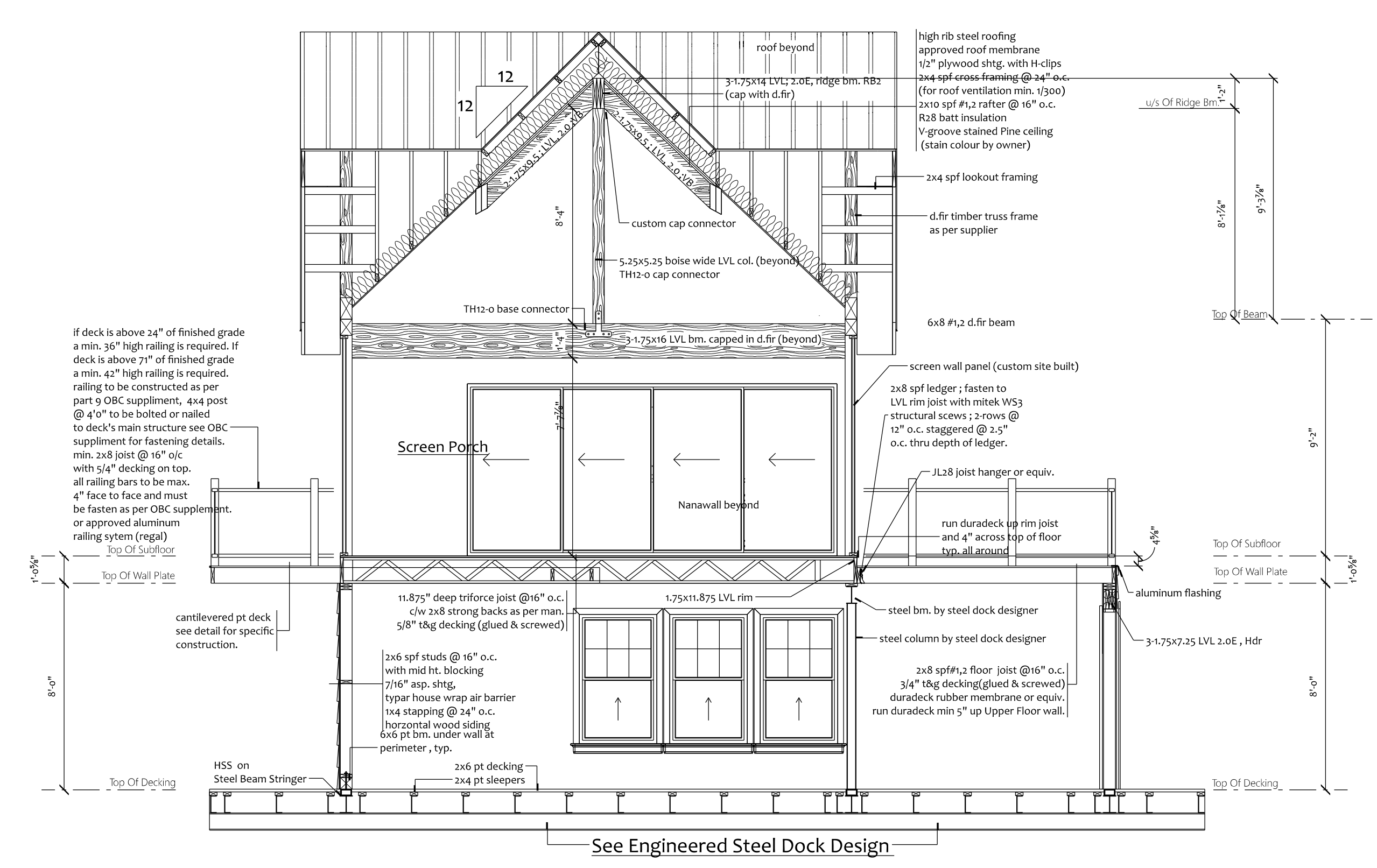
ID	DEFINITION	WIDTH	DEPTH	LENGTH	COUNT
RB2	3-1.75x14 LVL; 2.0E	5 1/4"	14"	18'-0"	3
RB1	2-1.75x11.875 LVL; 2.0E	3 3/4"	11 3/4"	10'-0"	4
RB3	2-1.75x7.25 LVL; 2.0E	3 3/4"	7 1/4"	13'-0"	2
VBI	2-1.75x9.5 LVL; 2.0E	3 3/4"	9 1/2"	16'-0"	8
B1	6x8 d.fir #1,2	5.5"	7.5"	18'-0"	2
B2	6x8 d.fir #1,2	5.5"	7.5"	20'-0"	1
WP1	boise wide LVL Post	5.25"	5.25"	10'-0"	5
WP2	boise wide LVL Post	5.25"	7"	10'-0"	8
WP3	6x8 d.fir #1,2	5.5"	5.5"	10'-0"	2
WP4	4x4 d.fir #1,2	3.5"	3.5"	10'-0"	6
RP1	boise wide LVL Post	5.25"	5.25"	10'-0"	3
RP2	6x6 d.fir #1,2	5.5"	5.5"	8'-0"	6

NOTE: all LVL products to be wrapped in d.fir material to match d.fir post & beams

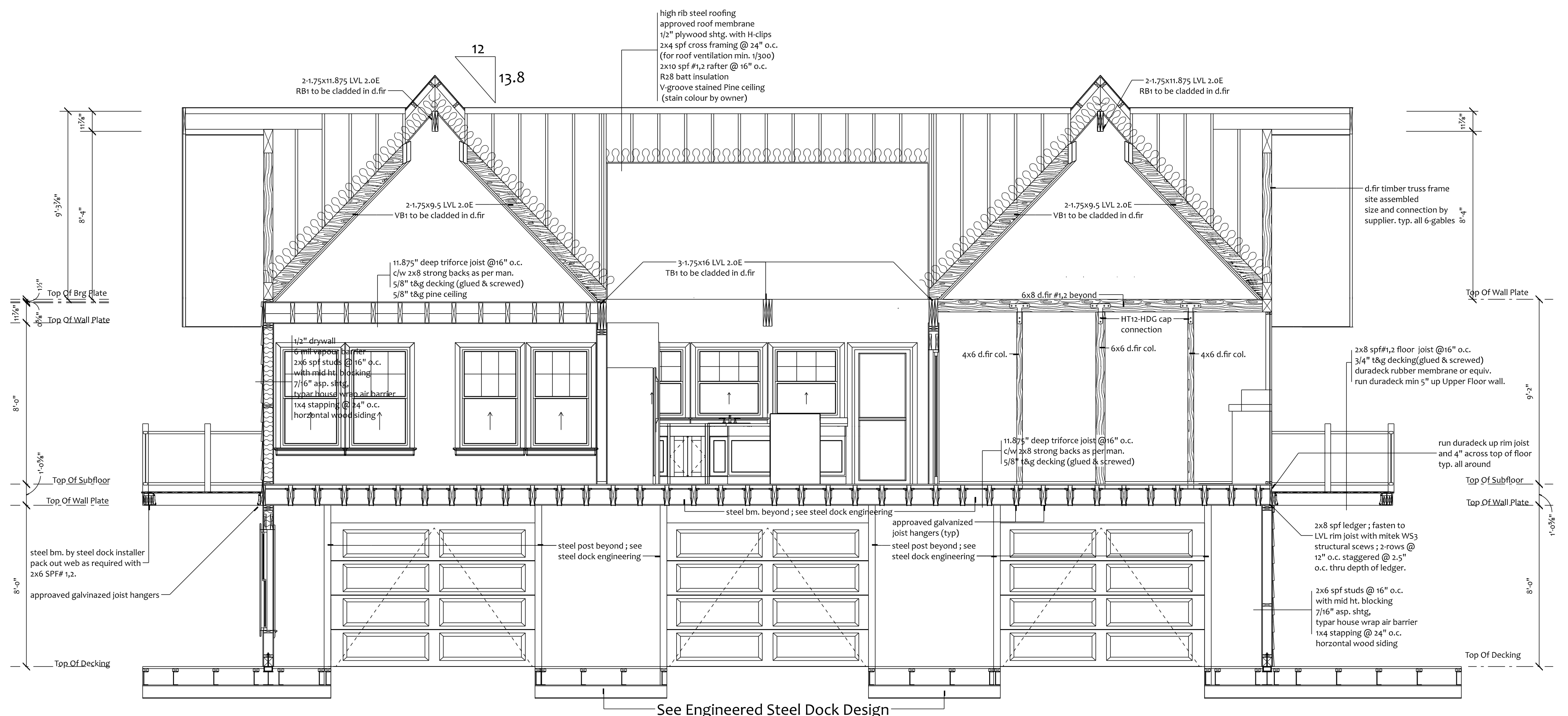
**9.5.2.3. Stud Wall Reinforcement**  
 (1) If wood wall studs or sheet steel wall studs enclose the main bathroom in a dwelling unit, reinforcement shall be installed to permit the future installation of the following:  
 (a) for a water closet, a grab bar described in Clauses 3.8.3.8.(3)(a) and a grab bar described in Clause 3.8.3.8.(3)(c).  
 (b) for a shower, a grab bar described in Clause 3.8.3.13.(2)(V), and  
 (c) for a bathtub, a grab bar described in Clause 3.8.3.13.(4)(c).  
**3.8.3.8. Water Closet Stalls**  
 (2) A water closet described in Clause (1)(c) shall be,  
 (i) located so that  
 (i) the centre line of the water closet is not less than 460 mm and not more than 480 mm from one side wall, and  
 (3) Where a water closet is located in accordance with Clause (2)(a),  
 (a) a grab bar conforming to Sentences (5) and (7) shall be provided on the side wall referred to in Subclause (2)(a)(i).  
 (c) a grab bar conforming to Sentences (6) and (7) shall be provided on the wall behind the water closet.  
 (5) A grab bar described in Clause (3)(a) shall,  
 (a) be continuous L-shaped with 750 mm long horizontal and vertical components, and  
 (b) be wall mounted with the horizontal component 750 mm above the finished floor and the vertical component 150 mm in front of the water closet.  
 (6) A grab bar described in Clause (3)(c) or (4)(b) shall,  
 (a) be at least 600 mm in length, and  
 (b) be wall mounted horizontally from 840 mm to 920 mm above the finished floor and, where the water closet has a water tank, be wall mounted 150 mm above the tank.  
 (7) A grab bar described in Clause (3)(a) or (c) or (4)(b) shall,  
 (a) be installed to resist a load of at least 1.3 kN applied vertically or horizontally,  
 (b) be not less than 35 mm and not more than 40 mm in diameter,  
 (c) have a clearance of not less than 38 mm and not more than 50 mm from the wall to the inside surface of the grab bar, and  
 (d) have a slip-resistant surface.  
**3.8.3.13. Showers and Bathtubs**  
 (2) (f) have a wall mounted continuous L-shaped grab bar conforming to Sentence 3.8.3.8.(7) located on the same wall as the controls, with the horizontal component of the grab bar  
 (4) (c) unless the bathtub is free-standing, a continuous L-shaped grab bar conforming to Sentence 3.8.3.8.(7) with 900 mm long horizontal and vertical components mounted with,  
 (i) the horizontal component located not less than 150 mm and not more than 200 mm above and parallel to the rim of the bathtub, and  
 (ii) the vertical component located not less than 300 mm and not more than 450 mm from the control end of the bathtub.  
 bar,  
 (i) mounted not more than 850 mm above the finished floor, and  
 (ii) located so that the end of the horizontal component is within 100 mm from the edge of the shower seat,



Cross Section A-A



Cross Section C-C



Cross Section B-B

**STRUCTURAL NOTES & SPECIFICATIONS**

**GENERAL NOTES**

- The Contractor shall as part of his work check and verify all dimensions and report any discrepancies to the Building Designer before proceeding with construction.
- The work shall be in accordance with the Ontario Building Code Act, 2012 and all subsequent regulations made under the Act.
- The contractor shall as part of his work check, verify, locate, provide and reinforce as necessary all openings for mechanical and electrical requirements. Where shown on drawings, these openings are indicated only approximately as to size and location.
- Safeguard all existing structures affected by this Contract.
- Unless specifically noted otherwise on the drawings, no provision has been made in the design for conditions occurring during construction. The Contractor is to provide all necessary bracings and shorings required for stresses and instability occurring from any cause during construction. The contractor shall accept full responsibility for all such measures. It shall also be the responsibility of the Contractor to provide all necessary bracings, shorings, sheet piling or other temporary supports to safe-guard all existing or adjacent structures affected by this work.
- Any works designed by others or works done that may affect the structural integrity of any elements or assembly, that fall under the responsibility of the specific manufacturer will be submitted to the specific manufacturer for review and comment.
- Do Not Scale Drawings.
- Plumbing specification as follows: The minimum size sanitary drain required is 4" to the lot line or septic system with a slope of 1% to 2%. Public drain connection at the lot line determined by municipality. Minimum size main stack shall be 3" with 4" cleanout at its base. All houses must be provided with laundry facilities or a space for laundry facilities. In addition, where a piped water supply is available, all houses must be provided with the following: a kitchen sink, a lavatory, a water closet, a bathtub or shower stall, and a floor drain. Vent pipes through the roof must be at least 3" in diameter and must extend at least 6" above the highest point of roof. Cleanouts must be the same sizes as the piping they serve, and be accessible for service. Where sumps are required to deal with water from foundation drains or weeping tiles, they must discharge to a public storm sewer, a drainage ditch or a dry well. Sumps should have a cover to prevent air movement.
- Structural Concerns: structural members must be designed to support the loads from heavy plumbing fixtures such as hot tubs, etc.. The builder must ensure structural members are not weakened by the installation of pipes and fixtures.
- Ventilation shall conform to Part 9 section 9.32 of the Ontario Building Code.
- Fire Protection - a smoke/carbon-monoxide alarm must be provided on each floor level and electrically wired together (see part 9 sect. 9.10 OBC for more info)
- Foundation- drainage - use drain clad against wall 6" stone (5/8" min.) and min. 4" under conc. floor.
- Design based on an unheated structure.
- Roof truss & pre-eng. beam drawings & shop drawings to be on site during construction of framing, drawings to be stamped by a Professional Engineer.
- Concrete to conform to O.B.C. 9.3.1.6. Compressive Strength
  - Except as provided elsewhere in this Part, the compressive strength of unreinforced concrete after 28 days shall not be less than,
    - 32 MPa for garage floors, carport floors and all exterior flatwork,
    - 20 MPa for interior floors other than those for garages and carports, and
    - 15 MPa for all other applications.
  - Concrete used for garage and carport floors and exterior steps shall have air entrainment of 5 to 8%.
- Attached Garage to conform to 9.10.13.15. of O.B.C.
- Doors Between Garages and Dwelling Units
  - A door between an attached or built-in garage and a dwelling unit shall be tight-fitting and weatherstripped to provide an effective barrier against the passage of gases and exhaust fumes and shall be fitted with a self-closing device.
  - A doorway between an attached or built-in garage and a dwelling unit shall not be located in a room intended for sleeping.
- Attic access to conform to 9.19.2.1. of O.B.C.
  - Every attic or roof space shall be provided with an access hatch where the attic or roof space,
    - measures not less than,
      - 10 m<sup>2</sup> in area,
      - 1 000 mm in length or width, and
      - 600 mm in height over at least the area described in Subclauses (i) and (ii), or
    - contains a fuel-fired appliance.
  - Except where an attic or roof space contains a fuel-fired appliance, the hatch required in Sentence (i) shall be not less than 550 mm by 900 mm except that, where the hatch serves a single dwelling unit, the hatch may be reduced to,
    - 0.32 m<sup>2</sup> in area with no dimension less than 545 mm, or
    - 500 mm by 700 mm.
  - Hatchways to attic or roof spaces shall be fitted with doors or covers.

Floor Live Load = 40 PSF      Floor Dead Load = 15 PSF  
 Ground Rain Load = 8.4 PSF      Roof Live Load = 41 PSF  
 Ground Snow Load = 58.5 PSF      Roof Dead Load = 13.3 PSF

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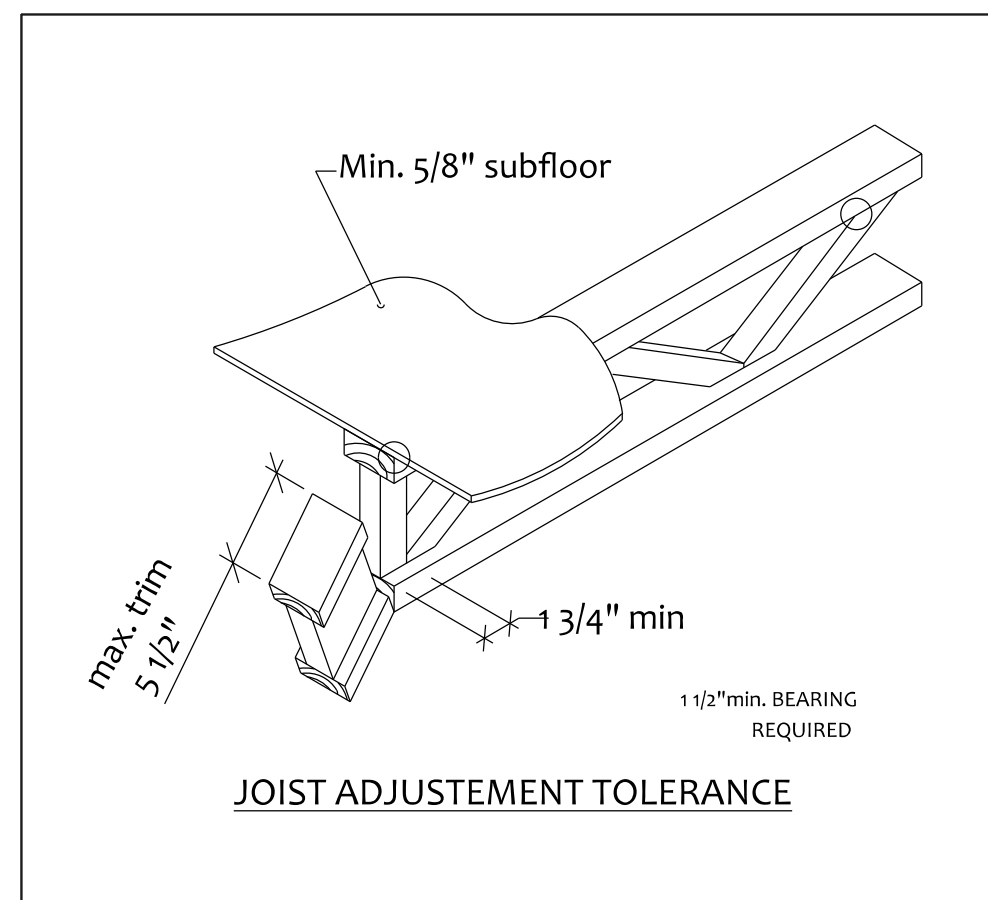
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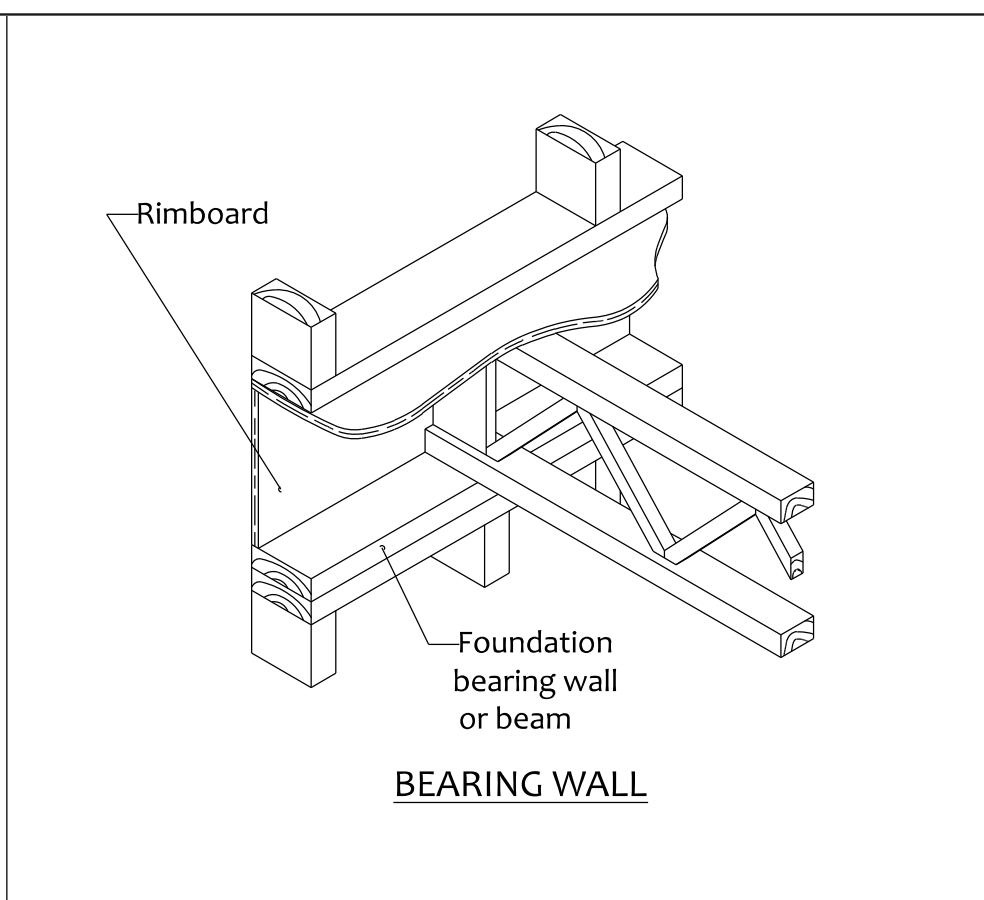
PROJECT  
**Herrnstein Ahmic Boathouse**

TITLE  
**Building Sections**

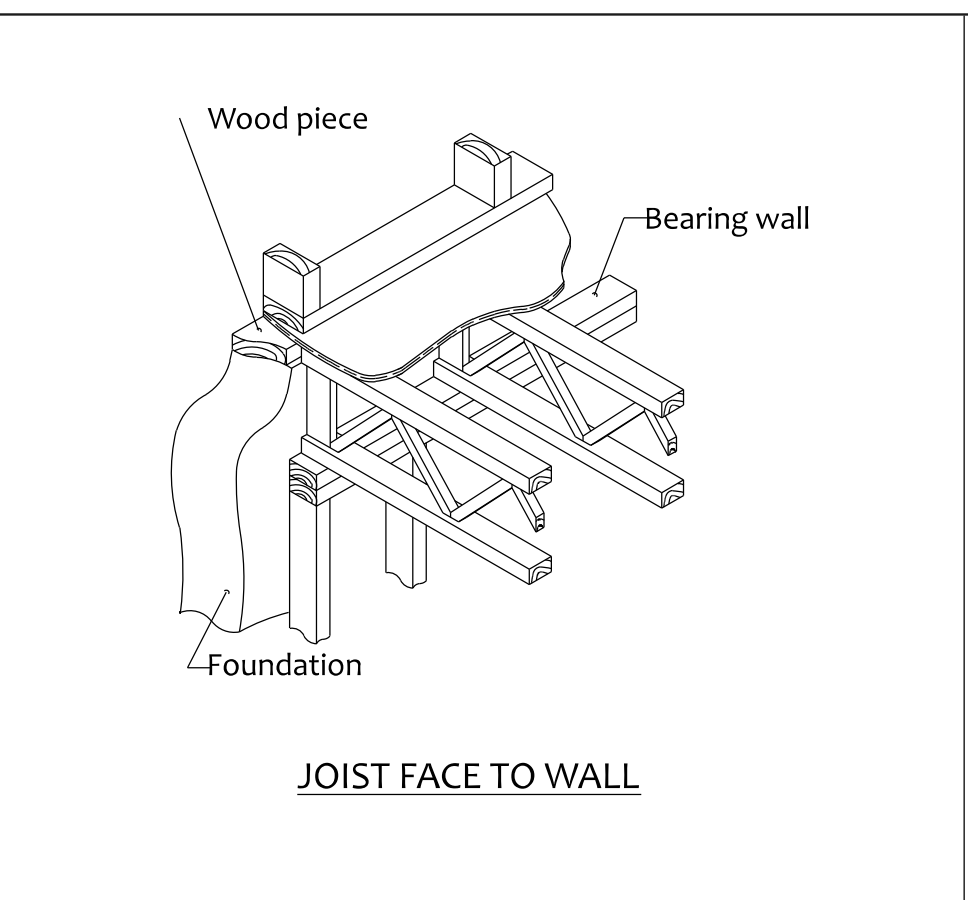
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DRAWN BY	DAL	SCALE	1/4" = 1'0"
PROJECT	Herrnstein - 2024	PAGE NO.	A-5



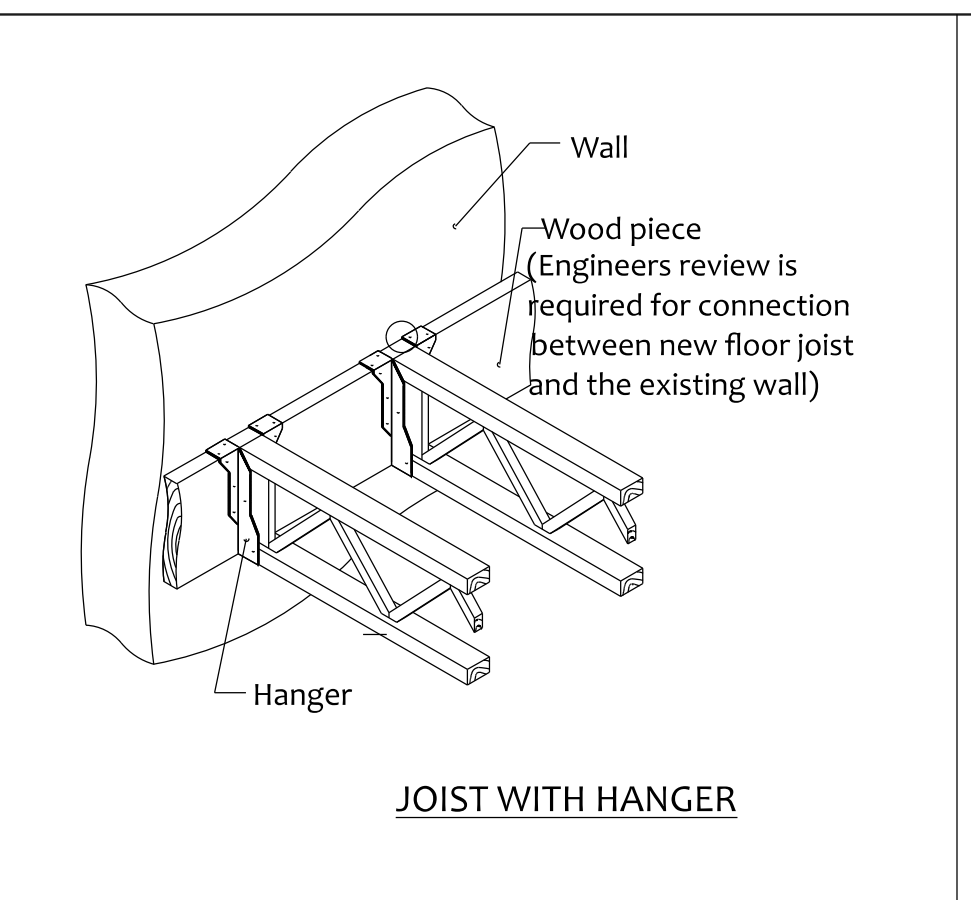
**JOIST ADJUSTMENT TOLERANCE**



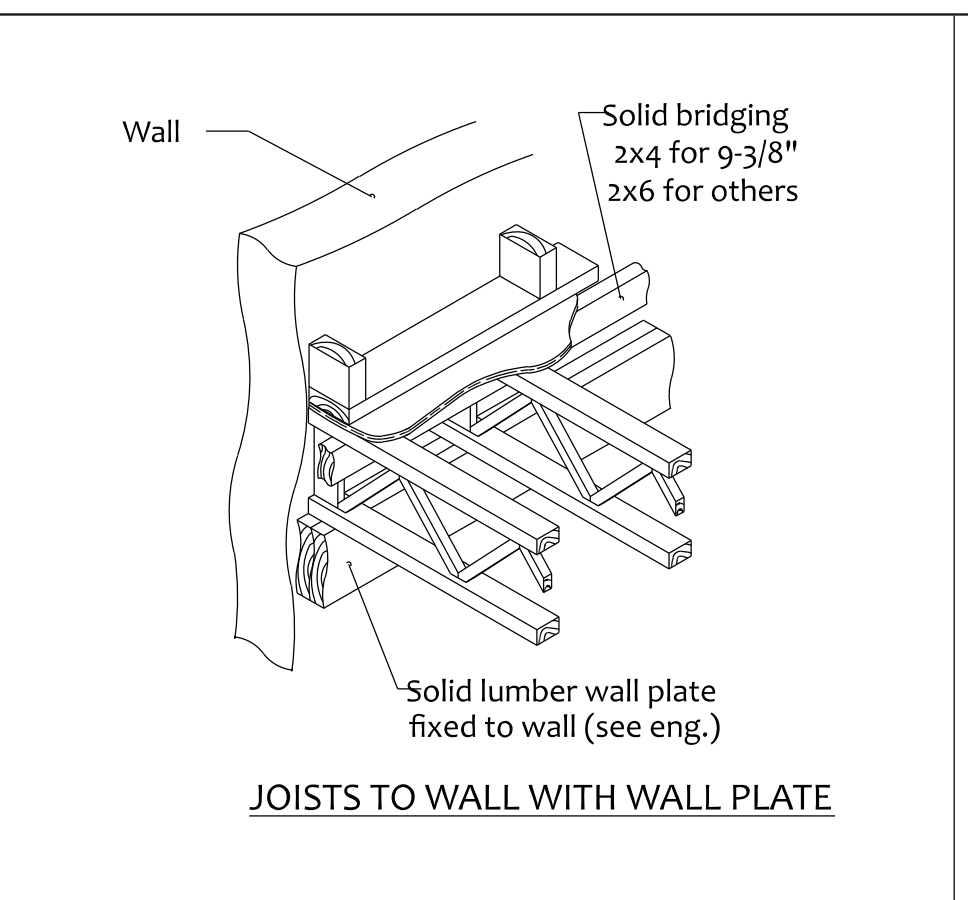
**BEARING WALL**



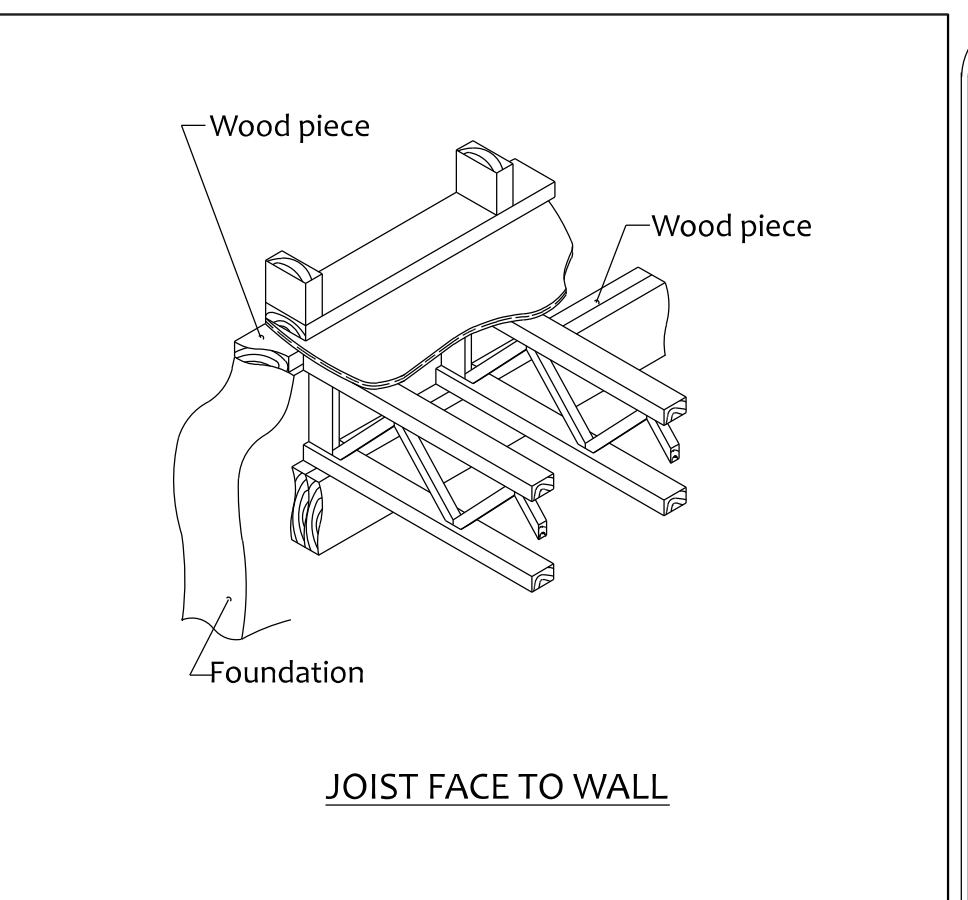
**JOIST FACE TO WALL**



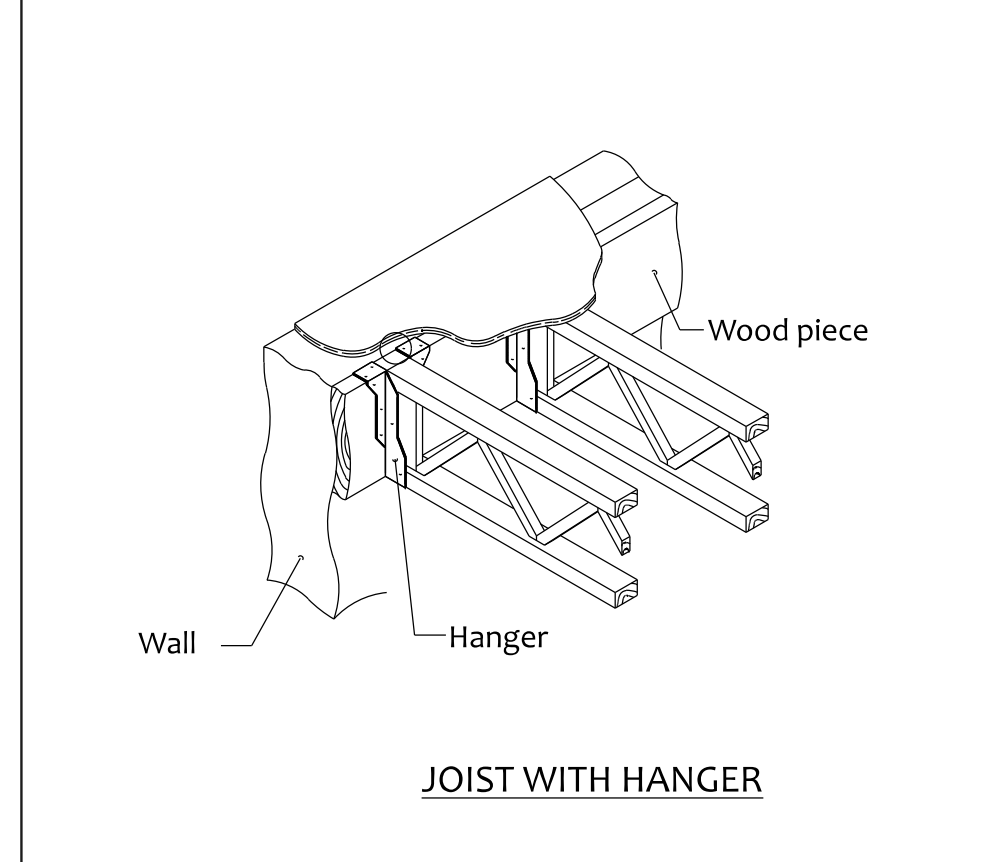
**JOIST WITH HANGER**



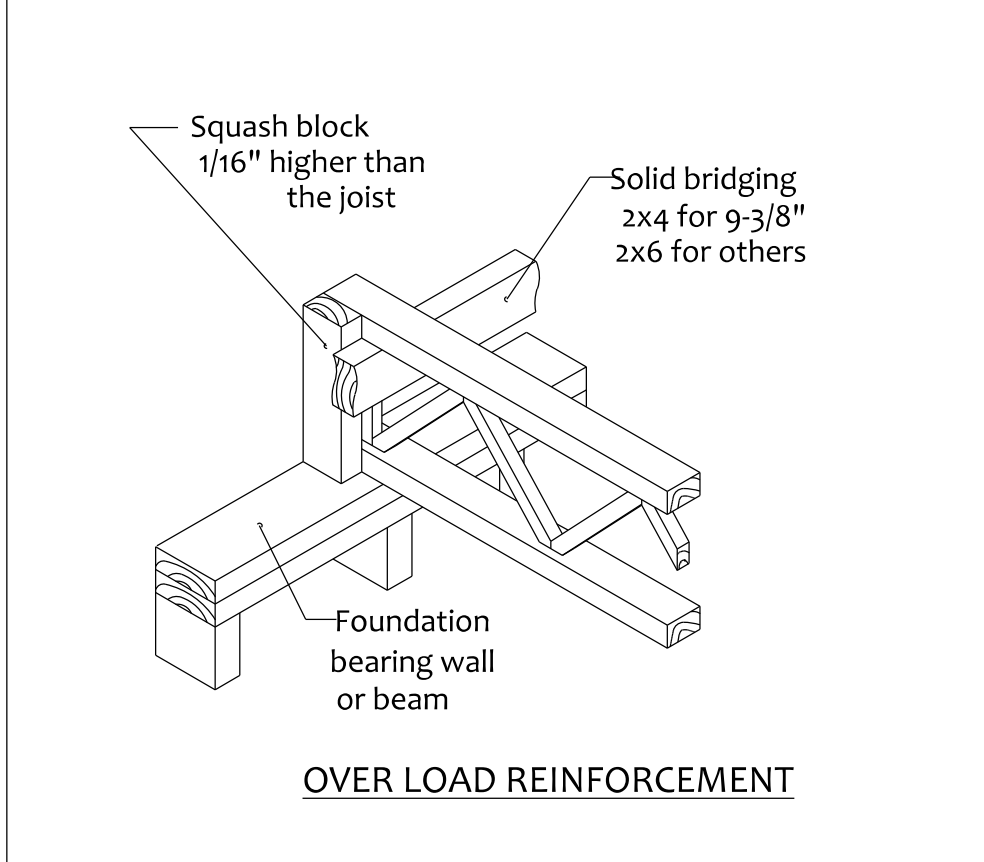
**JOISTS TO WALL WITH WALL PLATE**



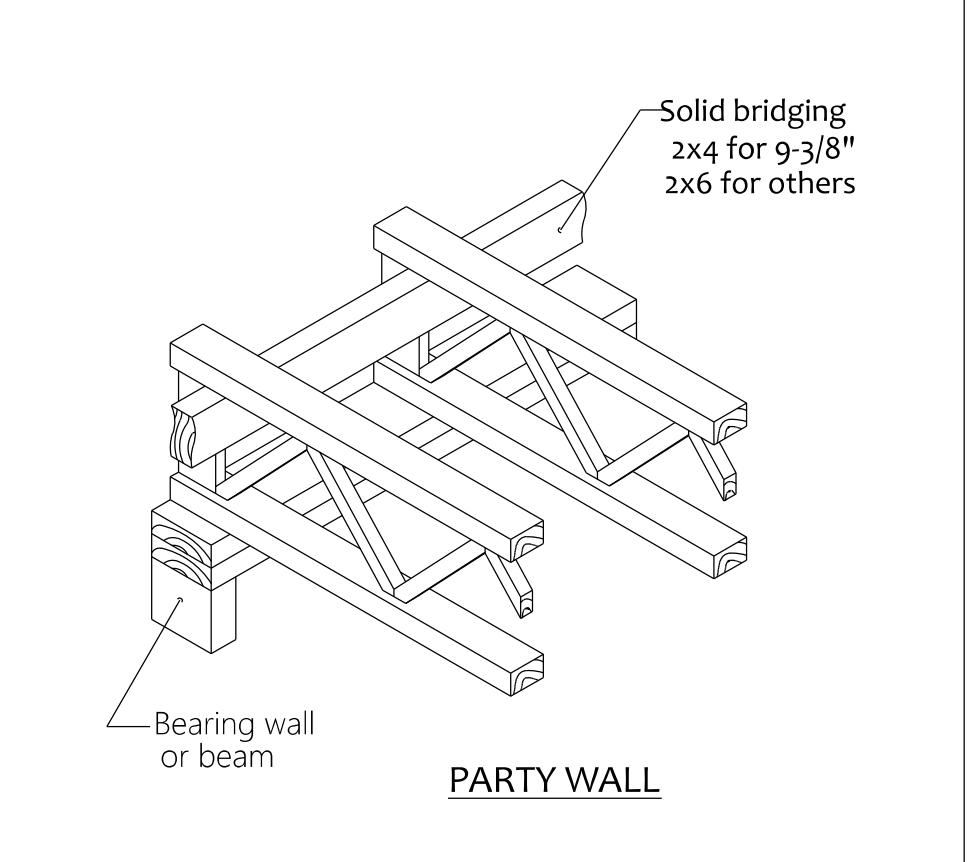
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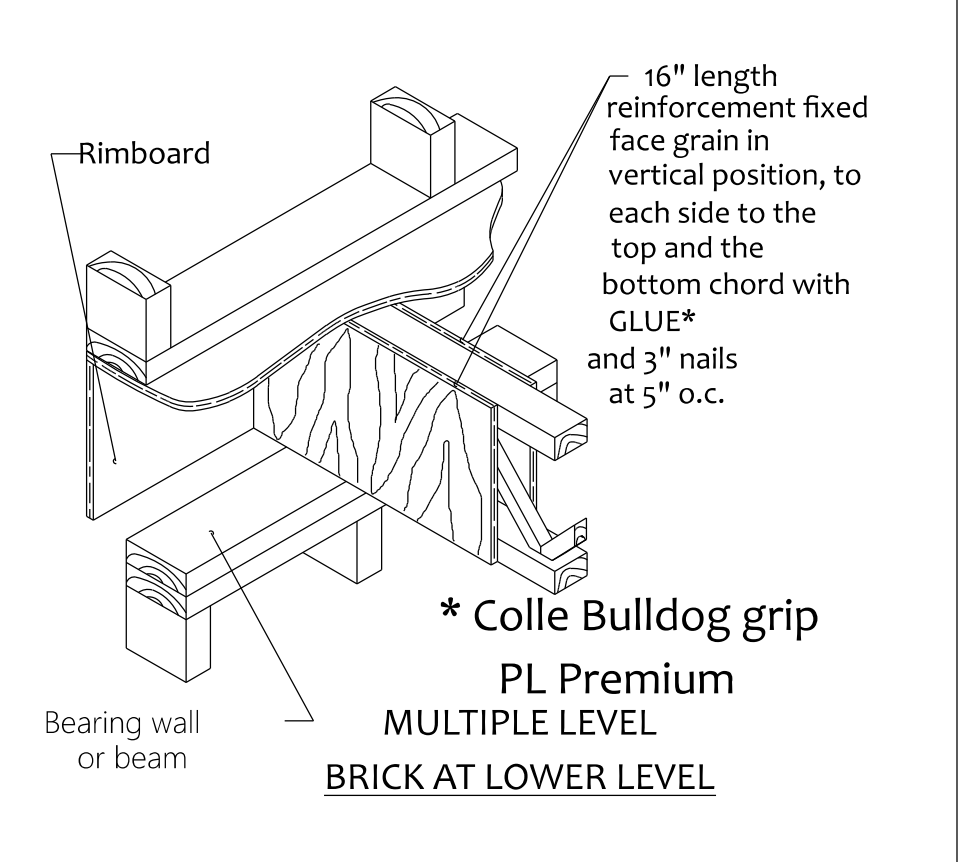
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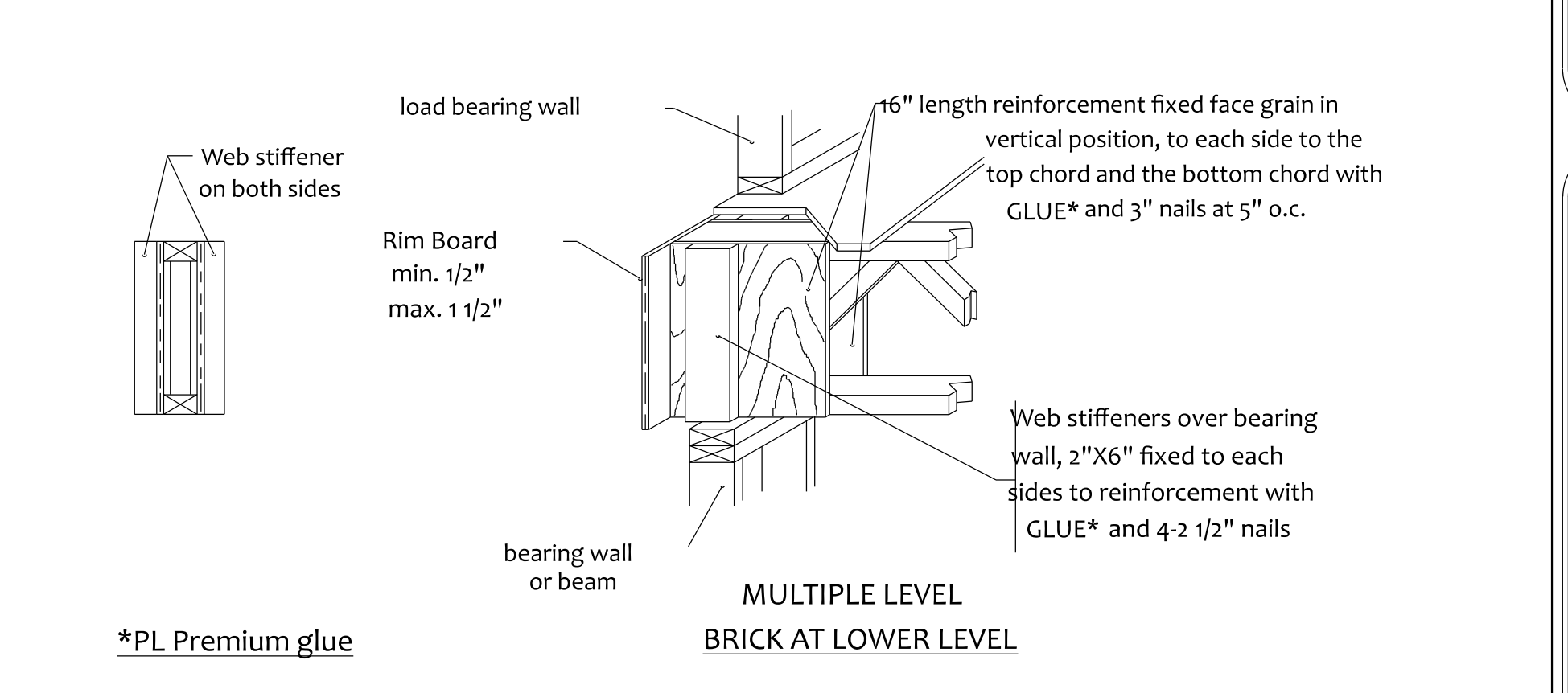
**OVER LOAD REINFORCEMENT**



**PARTY WALL**

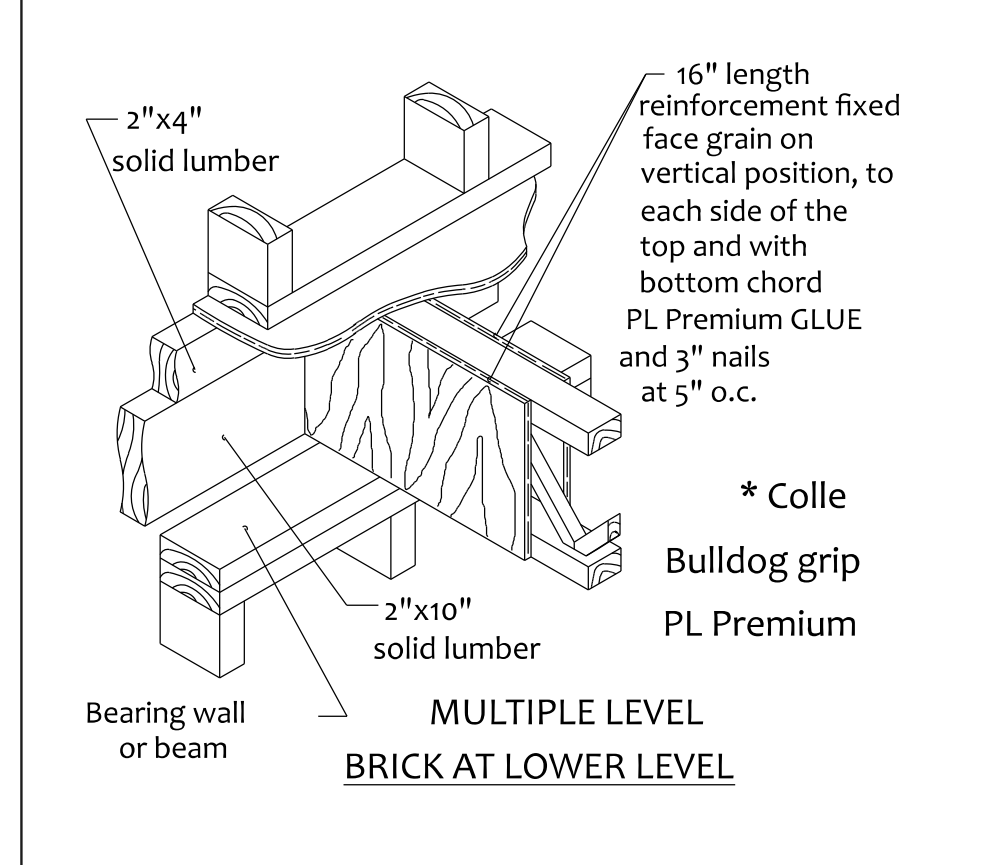


**\* Colle Bulldog grip PL Premium MULTIPLE LEVEL BRICK AT LOWER LEVEL**

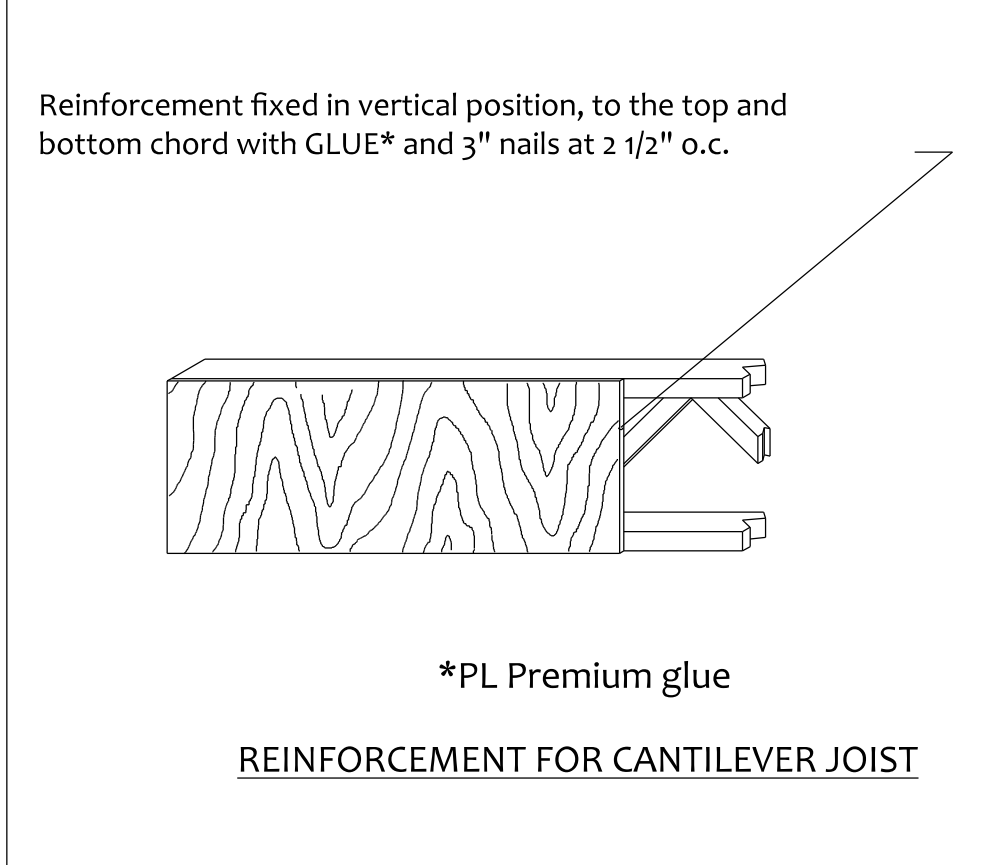


**\*PL Premium glue**

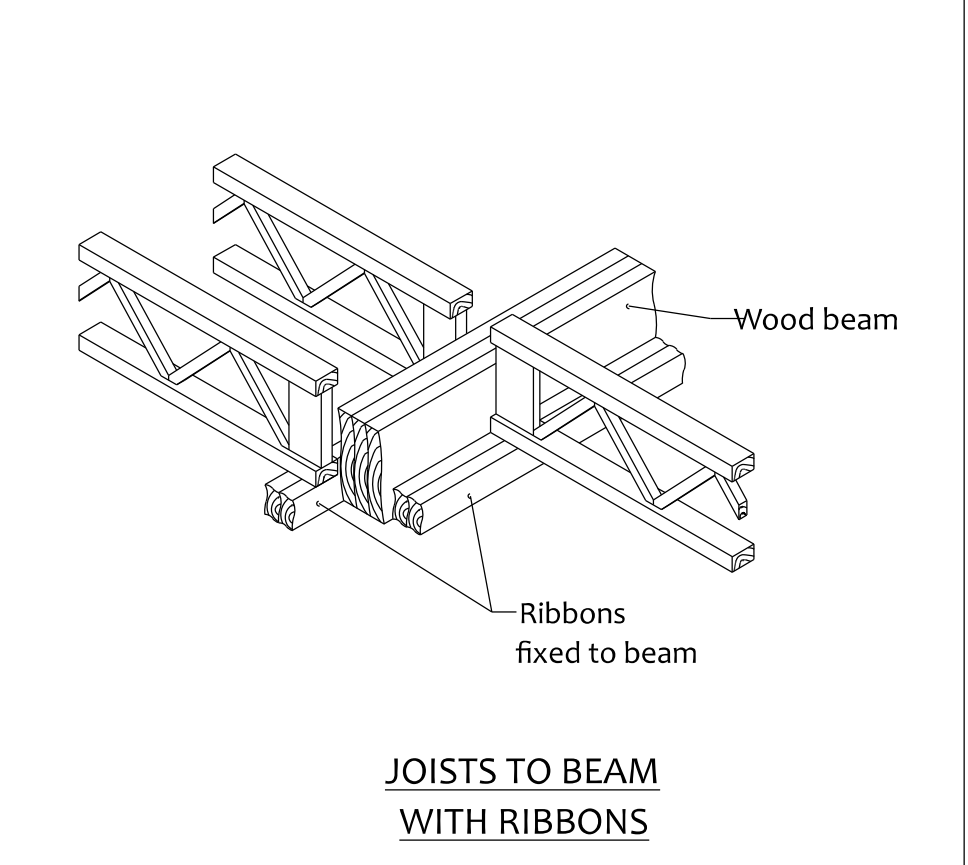
**MULTIPLE LEVEL BRICK AT LOWER LEVEL**



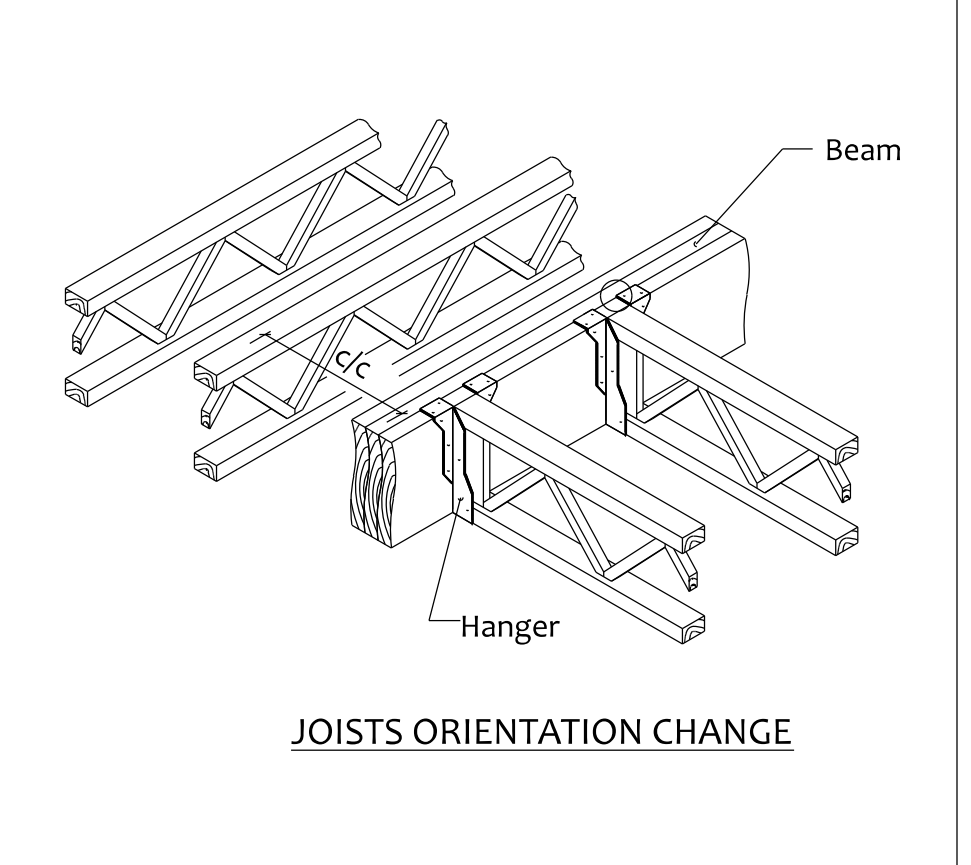
**MULTIPLE LEVEL BRICK AT LOWER LEVEL**



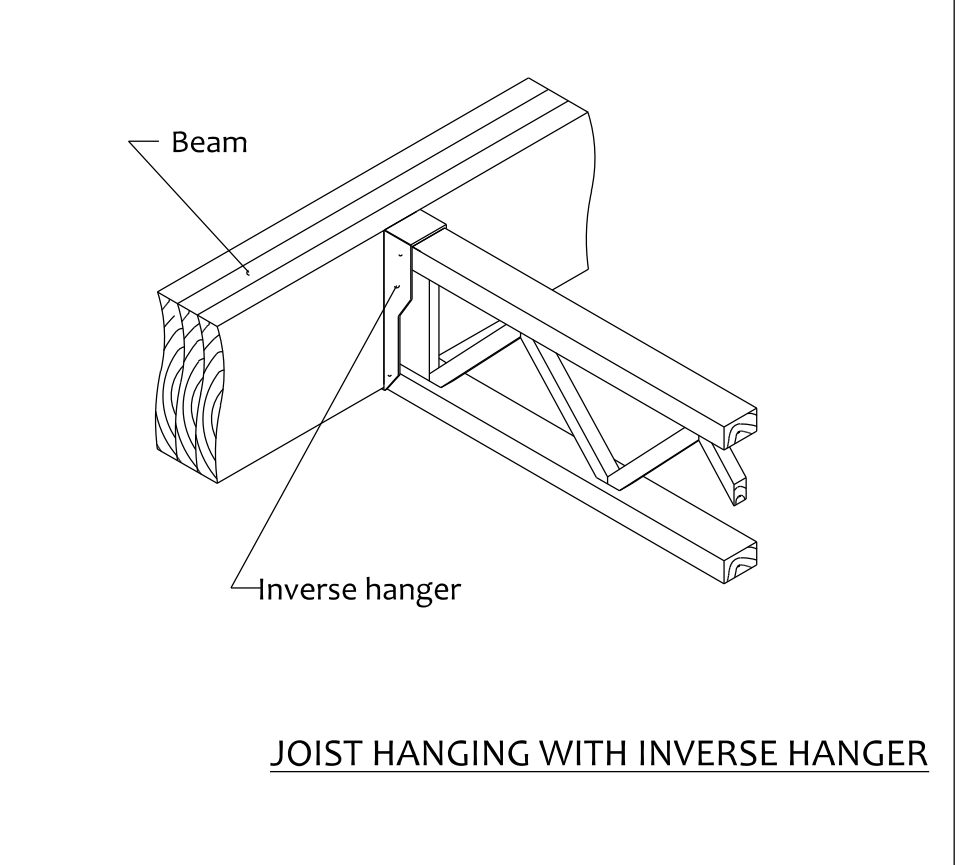
**\*PL Premium glue REINFORCEMENT FOR CANTILEVER JOIST**



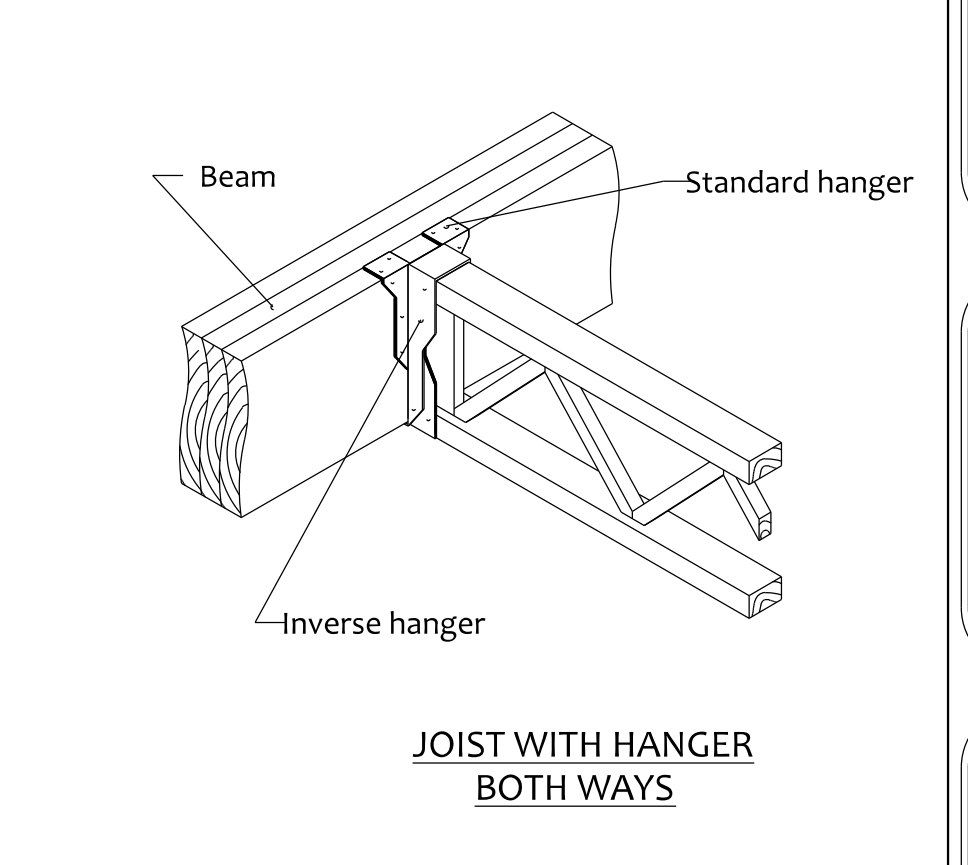
**JOISTS TO BEAM WITH RIBBONS**



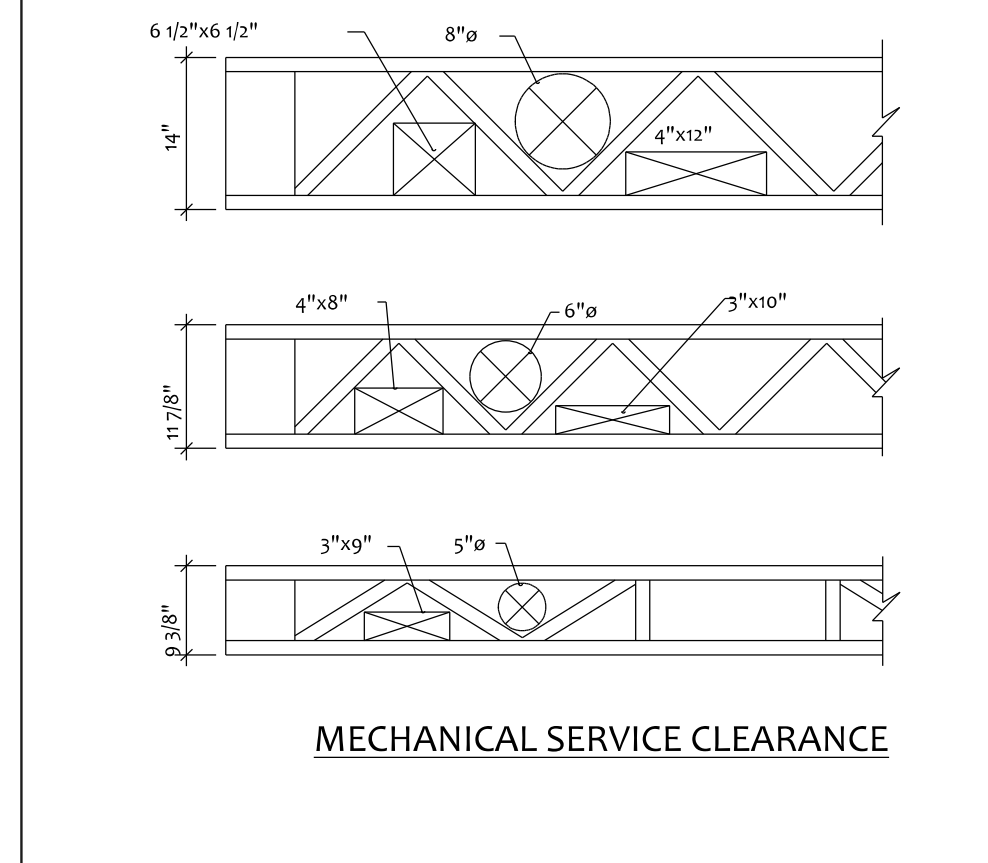
**JOISTS ORIENTATION CHANGE**



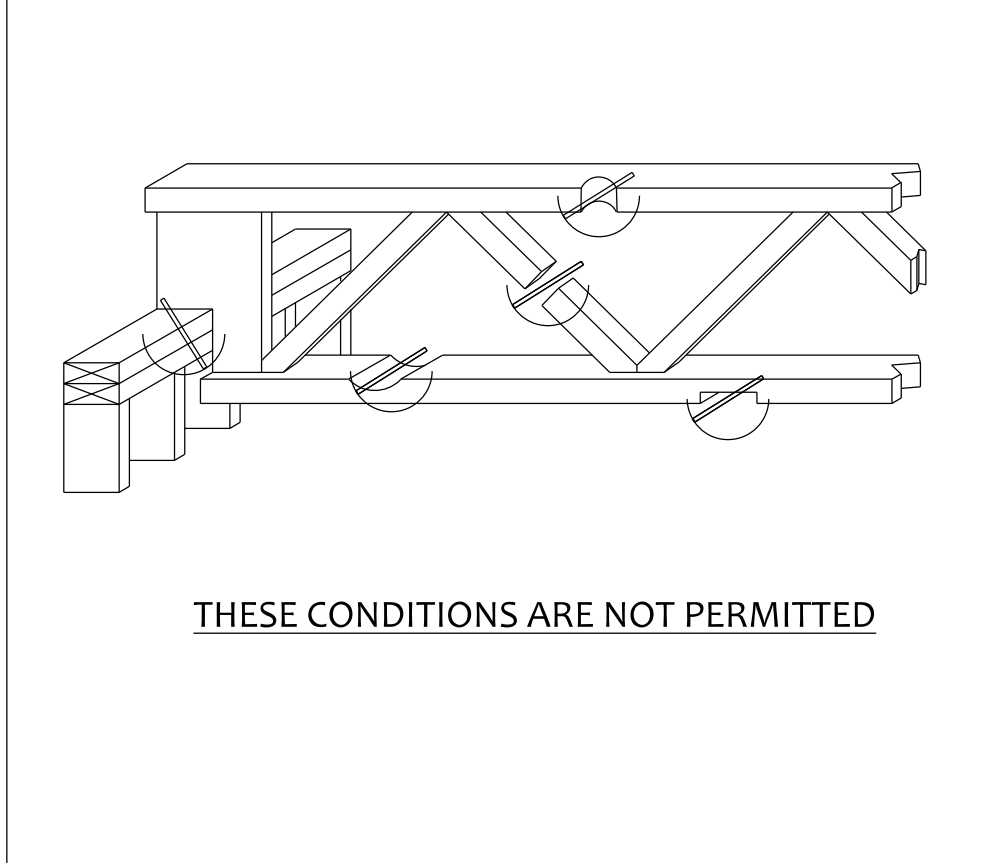
**JOIST HANGING WITH INVERSE HANGER**



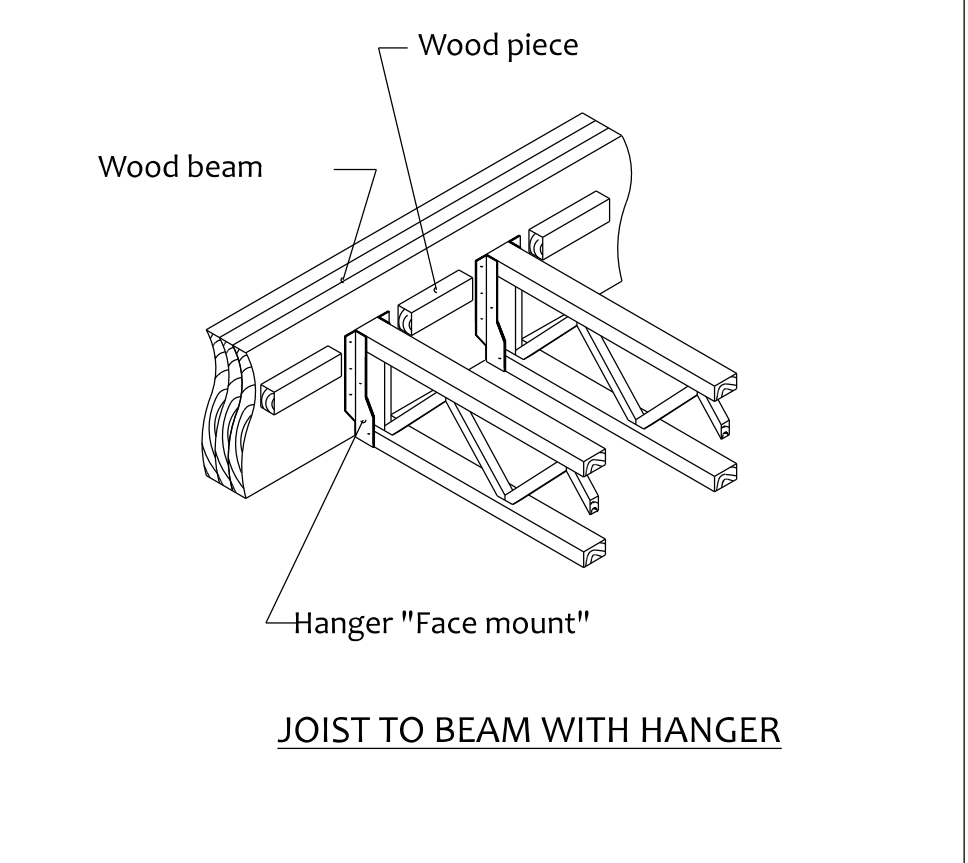
**JOIST WITH HANGER BOTH WAYS**



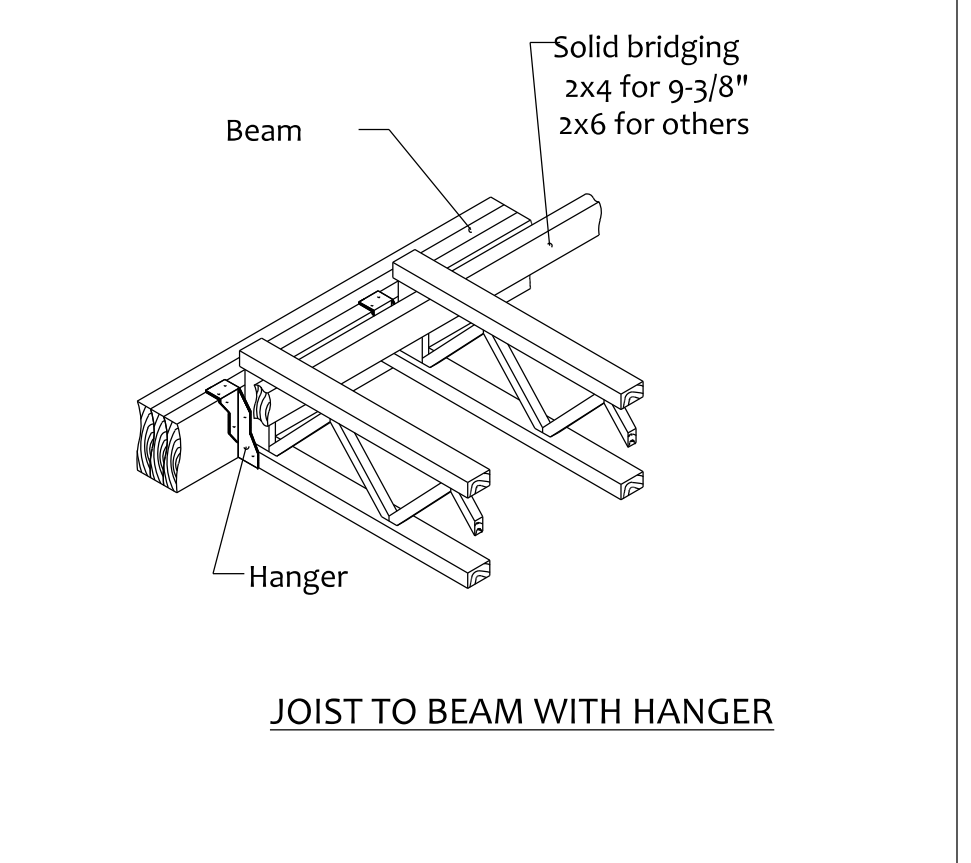
**MECHANICAL SERVICE CLEARANCE**



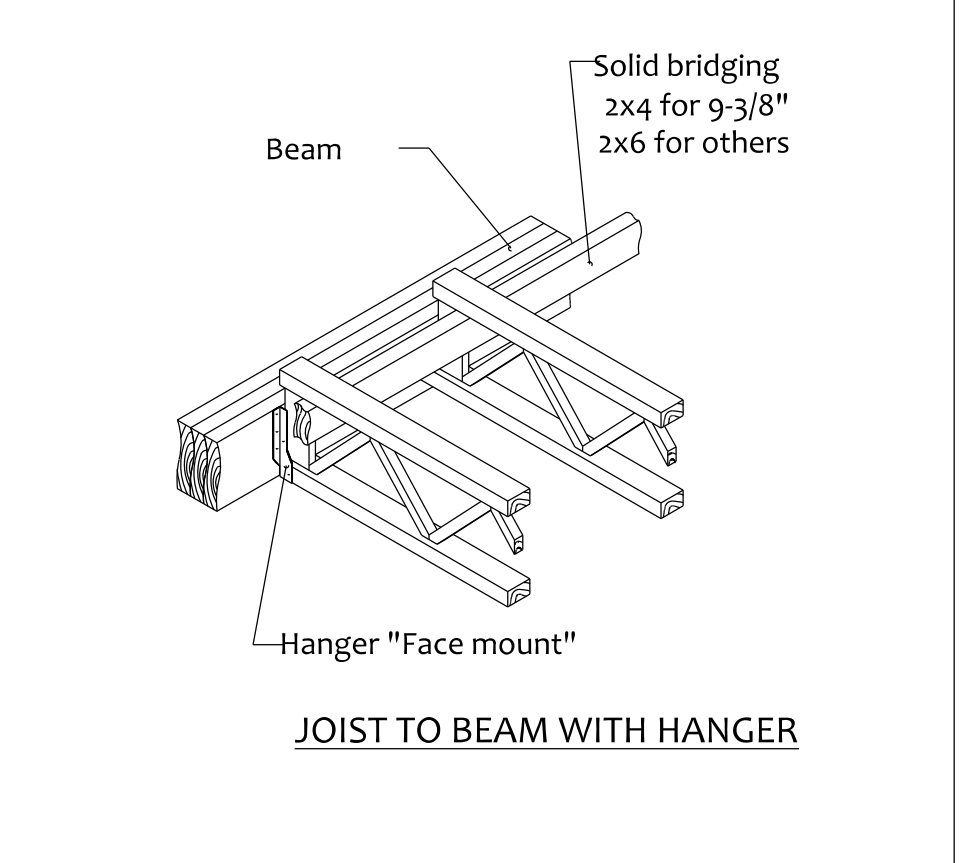
**THESE CONDITIONS ARE NOT PERMITTED**



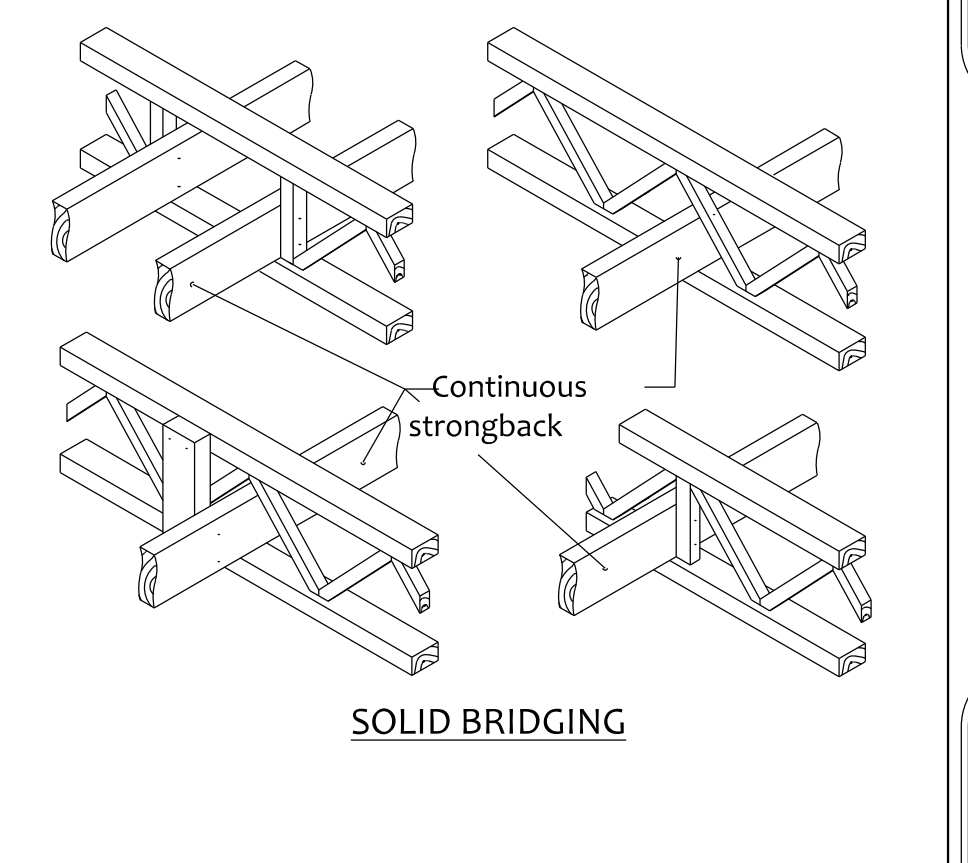
**JOIST TO BEAM WITH HANGER**



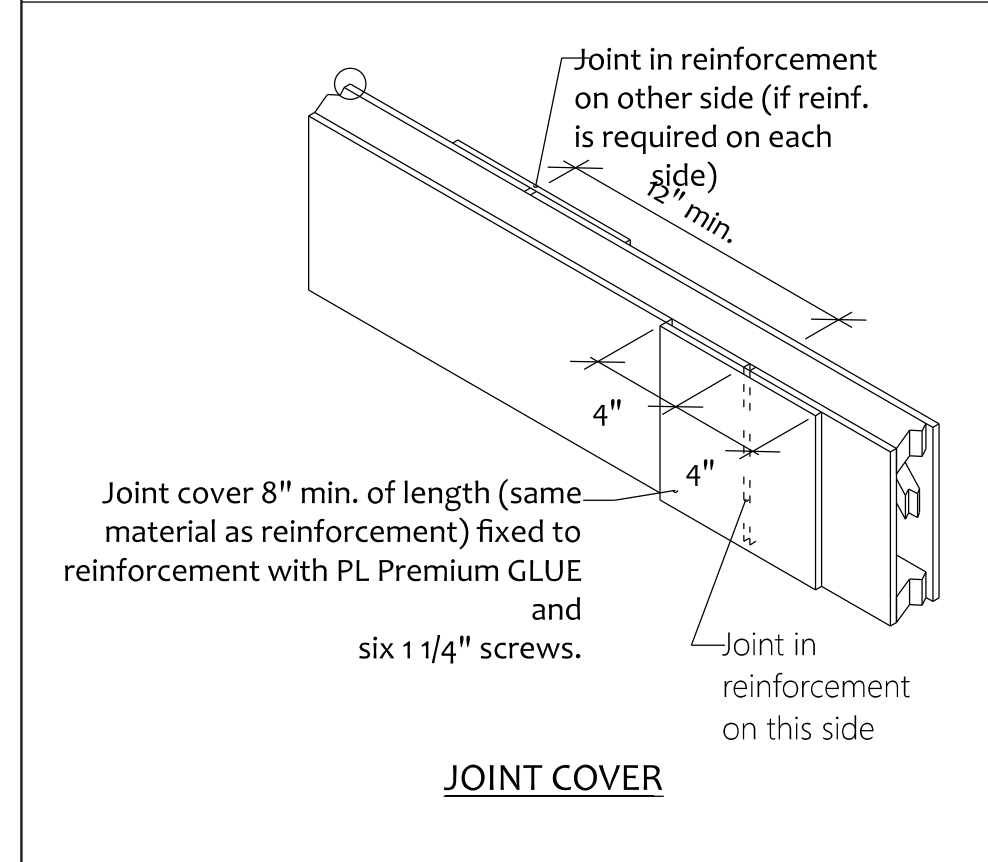
**JOIST TO BEAM WITH HANGER**



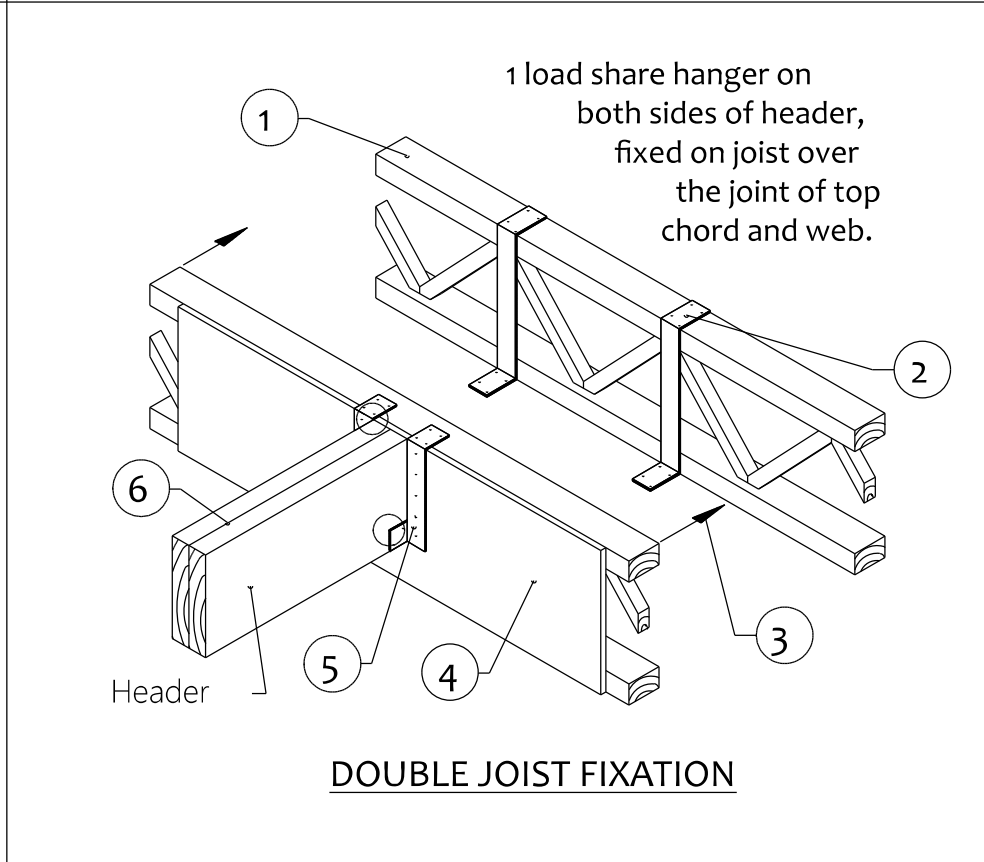
**JOIST TO BEAM WITH HANGER**



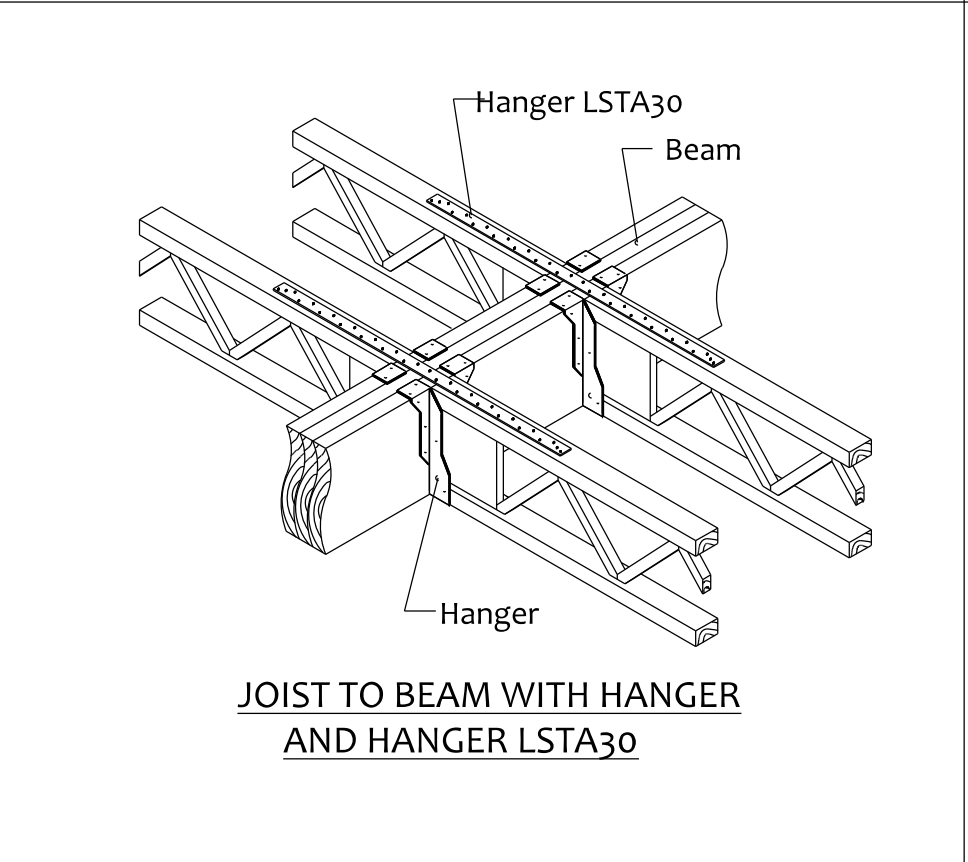
**SOLID BRIDGING**



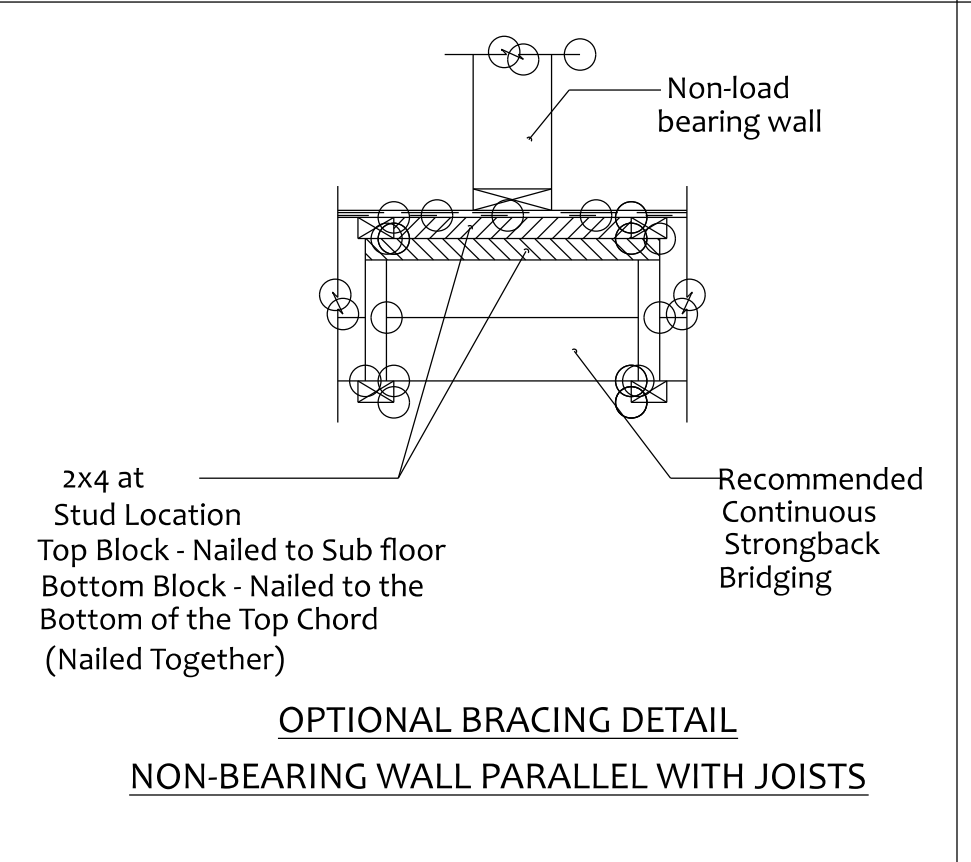
**JOINT COVER**



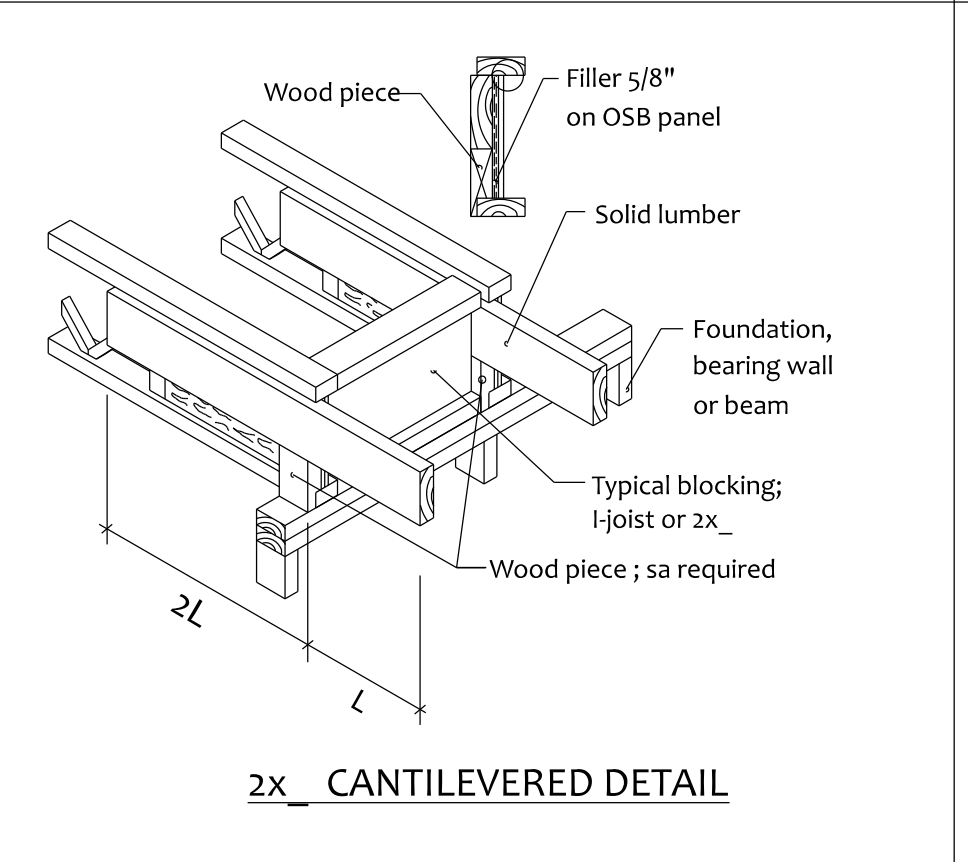
**DOUBLE JOIST FIXATION**



**JOIST TO BEAM WITH HANGER AND HANGER LSTA30**



**OPTIONAL BRACING DETAIL NON-BEARING WALL PARALLEL WITH JOISTS**



**2x\_CANTILEVERED DETAIL**

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1	for permit issuance	09/27/21
REV.	DESCRIPTION	DATE

**GENERAL NOTES**

\*\*ALL DIMENSIONS ARE TO OUTSIDE STUD WALL

\*\*ALL LINTELS TO BE 3-2X8 SPF.#1 OR #2 FOR MAX. OPENINGS OF 6'-11"; & 3-2X10 SPF.#1 OR #2 FOR MAX. OPENINGS OF 7'-5" UNLESS OTHERWISE NOTED.

\*\*ALL PRE-ENG. BEAMS & COLUMNS SIZES TO BE CONFIRMED BY SUPPLIER. DISCREPANCIES TO BE REPORTED AND REVIEWED BY CUSTOM HOME DESIGNS.

\*\*ENGINEER APPROVED DRAWINGS OF FLOOR BEAMS, FLOOR JOISTS, LINTELS AND TRUSSES TO BE ON SITE.

\*\*ALL EXTERIOR WINDOW OPENINGS ARE R.S.O. UNLESS STATED OTHERWISE.

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**BCIN:**

Firm - 30841  
Individual - 25464

Signature

**CHD** Computer Aided Design  
P.O. Box 138, 219 Victoria St.  
Magnetawan, Ont.  
POA 1P0  
Cell (705) 499-7896  
den\_chd@customhomedesigns.ca

**Custom Home Designs**  
Est. 1993  
www.customhomedesigns.ca

**PROJECT**

Herrnstein  
Ahmic Boathouse

**TITLE**

Triforce Joist Details

CHECKED BY	DAL	DATE	Mar. 2024
DRAWN BY	DAL	SCALE	NTS
PROJECT	Herrnstein - 2024	PAGE No.	A-6

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1	for permit issuance	09/27/21

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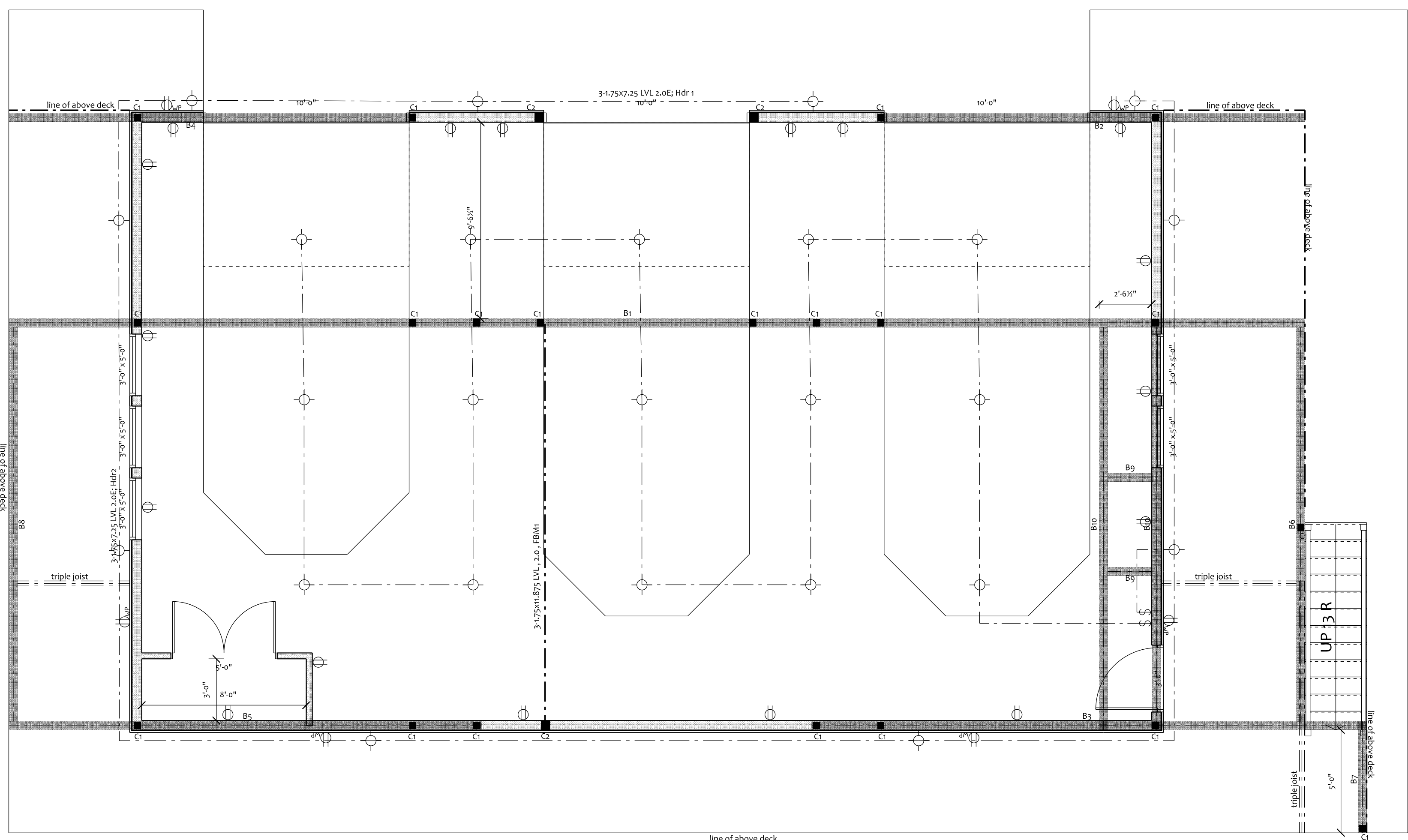


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**PROJECT**  
 Herrnstein  
 Ahmic Boathouse

**TITLE**  
 Electrical Layouts

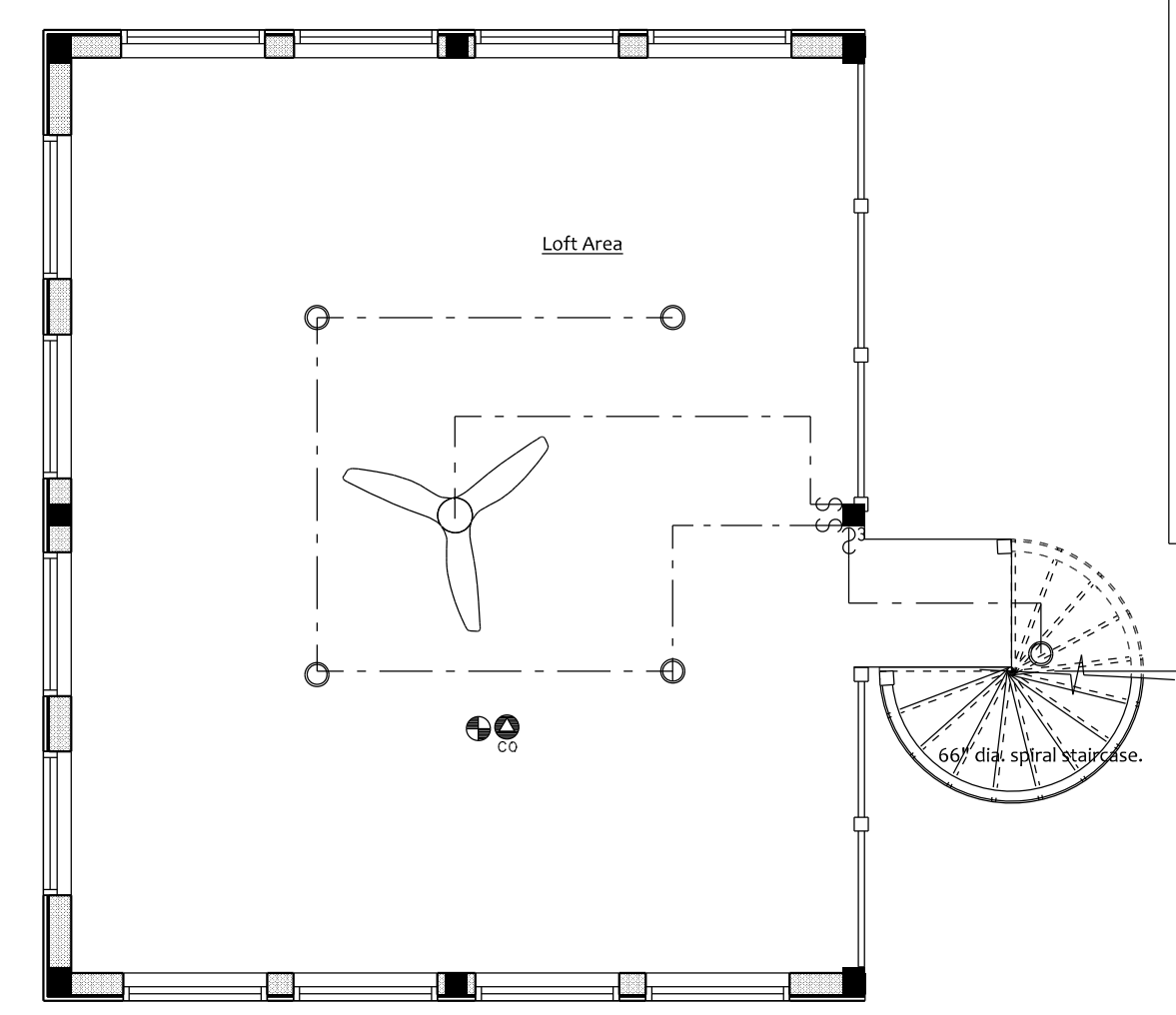
CHECKED BY	DAL	DATE	Mar. 2024
DRAWN BY	DAL	SCALE	NTS
PROJECT	Herrnstein - 2024	PAGE No.	A-7



**Main Floor Plan Electrical**

**ELECTRICAL LEGEND**

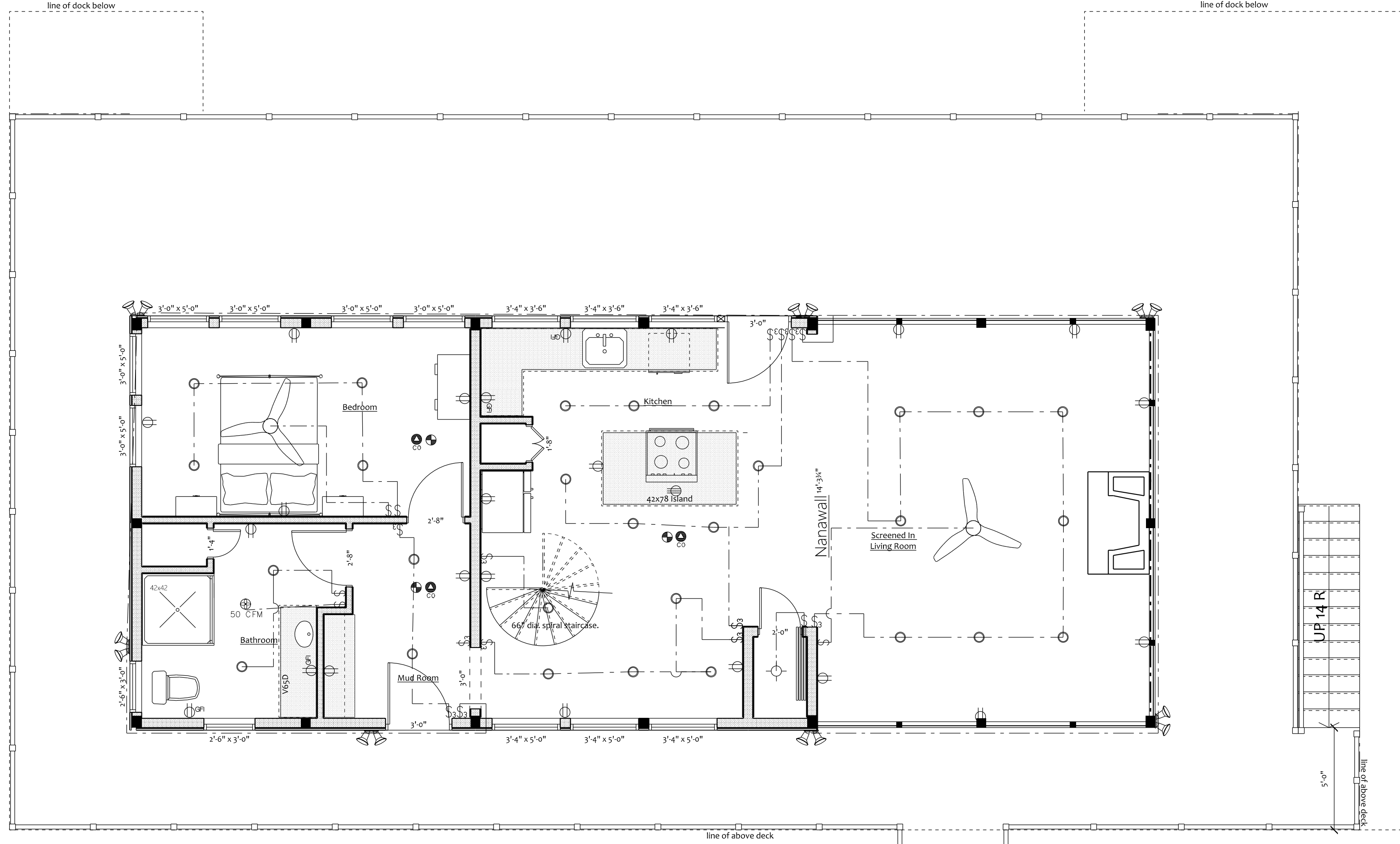
ELECTRICAL	COUNT	SYMBOL
light	25	○
outlet	17	○
outlet wp	6	○
switch	2	Ⓢ



**Loft Floor Plan Electrical**

**ELECTRICAL LEGEND**

ELECTRICAL	COUNT	SYMBOL
ceiling fan - halou	1	⊗
pot light	5	○
co detector	1	⊙
smoke detector / hardwired with strobe	1	⊙
switch	2	Ⓢ
switch 3 way	1	Ⓢ



**Upper Floor Plan Electrical**

**ELECTRICAL LEGEND**

ELECTRICAL	COUNT	SYMBOL
ceiling fan - halou	2	⊗
pot light	28	○
spotlight double with motion detector	7	⊙
co detector	3	⊙
fan 50 CFM	1	⊙
light	1	○
outlet	19	○
outlet 220v	1	○
outlet gfi	4	○
smoke detector / hardwired with strobe	3	⊙
switch	6	Ⓢ
switch 3 way	12	Ⓢ