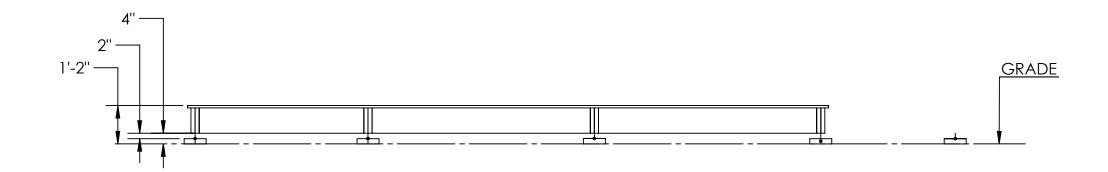


Design load: 40psf live, 10psf dead.

- 1. All framing to be 2x10 PT SYP #2 or better, with two-ply built-up beams. Beam nailing schedule on beam build-up detail page.
- 2. Beams to be secured directly to elevated post bases (Simpson Strong-Tie EPB44PHDG) epoxied in piers; beams sitting 2" from pier. 1/2" marine plywood shim to fill post footprint.
- 3. All hardware and fasteners to be hot-dipped galvanized or stainless steel. All cut ends to be treated with copper-based ground-contact suitable wood preservative.
- 4. All joists and beams to be covered on top with Vycor Deck Protector joist tape or similar.

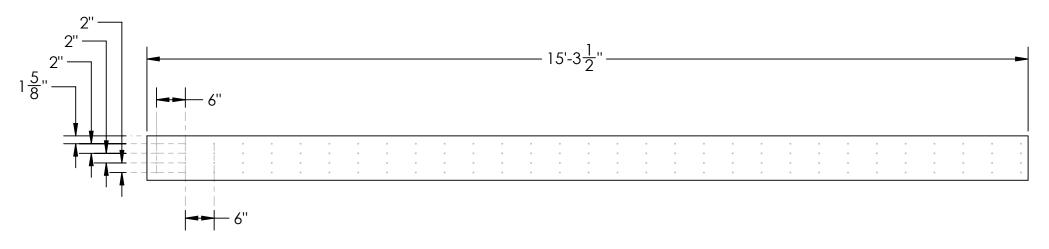
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# Side Projection



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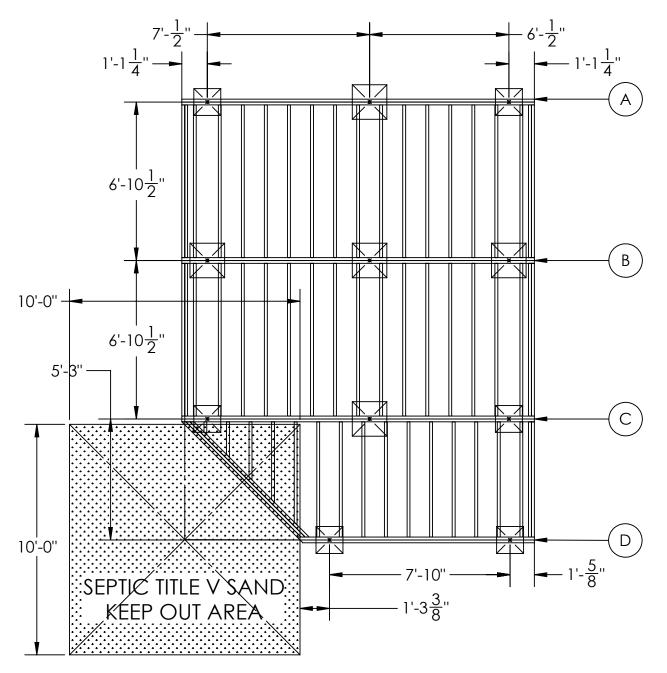
### Beam Nailing Schedule/Build Up



- Four 10d common nails per row, across the width. Within row, nails spaced 2" from each other.
- Within row, nails spaced 1 5/8" from edge of member. First and last vertical row within 2" of end of beam.
- Each row spaced 12" O.C. per side. Nailed from both sides with 6" offset.

- Effective spacing of 6" O.C. down length of beam. Bead of premium outdoor constructive adhesive applied in zig-zag pattern between both plys. (Loctite PL400 Subfloor/Deck Adhesive or similar.)

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## Pier/Footing Schedule

All piers 10" diameter, extending 2" from grade.

All footings 16" square, 6" thick, buried 12" deep on top of undisturbed soil with a minimum of 2" compacted gravel base.

Bearing capacity for various footing sizes on *General Calculations* page.

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#### General Calculations

#### Concrete Piers (assumes 1500psf soil)

16" square footing w/ 10" circular pier

- 1.78 sq. ft. bearing area
  - -~162lbs dead load at 14" height (6" thick footing, pier 8" high)
  - bearing capacity of ~2500lbs after concrete dead load

Tributary Areas and Loads (based on design load)
Calculated dead load(deck only): ~7psf
Footing capacity safety margin: 10%

B1: 20 sq. ft., 1000lbs load B2: 29 sq. ft., 1450lbs load B3: 18 sq. ft., 900lbs load C1: 39 sq. ft., 1950lbs load C2: 45 sq. ft., 2250lbs load C3: 36 sq. ft., 1800lbs load D1: 26 sq. ft., 1300lbs load D2: 40 sq. ft., 2000lbs load D3: 32 sq. ft., 1600lbs load E1: 15 sq. ft., 750lbs load E2: 13 sq. ft., 650lbs load

B1	B2	В3
C1	<u></u>	
C1	C2	C3
5.1	<b>D</b> .0	
D1	D2	D3
	E1	E2
	$\overline{}$	$\overline{}$

(Drawing/placements not to scale)

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