#### 2024 SEH 4 Build







## Stairway Beadboard

- 1. Stairway North Side 1x6 trim at floor, covers bottom of beadboard
- 2. **Stairway hallway Walls** no utility channel, beadboard from ceiling, use 1x6 trim
- 3. Interior walls 2nd Floor wherever there is utility channel, we cut the 8' beadboard down. This is entire Bedroom 2, entire bedroom 1. Hallway at top of stairs - no channel, as the channel is in bedroom 1
- 4. 2nd Floor Bath North Side no channel
- 5. **2nd Floor Bath utility wall side** channel, as there are penetrations and we want to make this easy







Is this outlet required?

Is this outleton north part of hallway at top of stairs required?





### **Build Procedure**

- 1. Mark 7.55" from top ¼" thick for floor or 7.3 from top of subfloor. That is the top reach of the stringer. Mark the 7.3" line on the joist. The way it works the joist ends between last 2 holes
- 2. Note we poke through back wall from utility channel to through-wall so stringer can be flat against wall



- 3. Hang scringer hanger at the 6 mark
  - a. Nail in the 9 holes to the joist (not stringer, this picture is not what happens)
  - b. Insert stringers into these, nail with the 3 + 10 + 3 joist hanger nails (4D, 9 gauge, 1.5")
  - c. At bottom, verify ~2" reach onto deck:



<u>CAD</u>



Run these through wall instead



7.33" + 105.7 + 8 = 121.03. That's actually incorrect - CAD cross section is <u>122.625"</u>



Stringer flat against wall

Wires running through wall instead

Level of Floor joist



## Stair Tolerancing

#### Build order:

- Build small wall 27" long 32" high
  - Ramset sill plate
  - Add blocking for utility channel
  - Add beadboard on the stair side
- Stringer goes on top of beadboard
  - Stringer is exact with beadboard.
- What if landing is narrower?
  - 34" tolerance is addressed with the trim on top of face plate
  - $\circ$   $\qquad$  Riser and stringer are exact on top of the landing
  - Only inaccuracy can be gap between landing face plate and the stem wall
    - This space can be trimmed readily with trim on front face of stem wall?



face plate Above, stringe and the only d plate and front f plugged by 1x6 trim on without cutting a profile on the tr Face Plate Note: what happens if we don't yet install small stem wall? Ok, but ideally do it before, as overlap would be difficult. Possible gap Do we need stem wall? Convenient Trim on front way to make stair edge neat. face of stem wall

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# Stair Landing Build

#### Buid order:

- Cut all materials as in <u>cut list</u>, up to 3 1x4s upon which the stringers will rest.
  - Undersize the landing width by ½" compared to measured value to assure fit (41" ideal, so make it 40.5"
- Screw and nail
- Move in to place, but use a 1x2 trim nailer whose top is 8.5" high from floor so beadboard can be stuck in front of it.
- Use beadboard spacers in front of the 1x2 trim nailer to space the landing the correct distance from the corner walls
- Add the stringers
  - Hang stringers on top
  - Nail into walls
  - Rest stringers on landing





20

#### Stair View From Below and Cut List





If we fix the horizontal distance- if we raise landing to 8" we drop 1.75" less, and 2" in total as we had a ¼" gap. No change in number of steps.

Then the angle of the stairs changes slightly.

Rise is 105.7/14=7.55"

Note that we still need to cut the base by the tread height - 1" - so the first stringer vertical is 7.55"-1" = 6.55".

Think about it. With constant tread length, D remains the same. Overall stair drop lessens meaning slight change in stair angle. Small Delta means there will be a small change in stair angle.

### Stairs for 2x8 Landing



#### Details - Early 2022 Stairs - Moving on from 2x6 to 2x8 Landing



#### **Cutting Stringers**

Ready-to-Finish Pine 1" x 11-1/4" x 48" Long Stair Tread Model Number: 4164735\_pinetread | Menards ® SKU: 4164735



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• Make 'sharkfin' - 7.7" by 10-3%". But - make sure you are going up the right way - it is right and left handed





#### Hanger







# Correct Landing to 48" Long





# Channel Behind Landing

