









SEE Engineering

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PLANS * CONSTRUCTION * SPECIAL PROJECTS * SHORING * TEMPORARY SYSTEMS

Stanley Bicock, P.E. C41457

Client: Alipoints Signs, Owner

Project: Sign Repair

Location:

Highway 101 Between Eureka and Arcata Eureka, CA.

CALCULATIONS

Framing

References

2016 California Building Code

Western Woods Use Book

BULL BOARD PERME 12-3-19 du lal A 25 PS 29X12X40 = 12000#754 25 PSEX 12 X7 = 2100#/POST 32000 F-15/POST 07M 7=2100# 2100x/6=18/8,+ FOR 2x6: 1244/8.25= 15/ pai (12/1,52) = 15/ Lmx FOR 2X8: 1244/10.88 = 1/4 PSC 14 V2 = Z1 USE EXEP.T. DF No.) BRUE W/2-2x6 C W/2-505 X31/21 Flat ZX

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Reconstruction Plan

Construction and reconstruction of billboards is performed by a 3-5 man crew and is expected to take 2-4 days. No construction equipment is needed. We use shovels and post hole diggers for the post, battery powered hand tools, ladders, and clamps, bolts and screws. No temporary structures or materials are required to reconstruct, IE we do not need to build scaffolding or set temporary brace post of any kind.

Below is a general workflow for how this location will be repaired.

- 1. Crews will began demoing all non reusable elements of the structure. This consist of using sawzalls to cut wood into sizes we are able to carry. Once small enough to carry all non-usable elements are stacked in a pile on the shoulder of the highway behind the guardrail.
- 2. Once all non-usable parts are removed we will began repairing the structure. This billboard actually broke about 8' up the post so in this case it looks like 6-9 of the vertical uprights will be able to be reused. For the remaining 3-6 uprights we will remove old post & concrete and dig new holes in their location. If old post cannot be removed we will dig a new hole next to old post.
- 3. Once all post holes are dug we set new upright in holes and hand mix bags of concrete into the hole one bag at a time.
- 4. Once all post are set you connect main post to back brace post.
- 5. Run new horizontal stringers connecting all main post.
- 6. Mount front and rear catwalks.
- 7. Sheet face with plywood
- 8. Install new billboard wrap.

Best Management Plan

As already outlined above, the repair and maintenance of a billboard structure has a very minimal impact as it is just a few people working with hand tools.

Since no construction equipment is used we do not have any provisions for spills as there is nothing to spill.

All new materials are stacked on the shoulder of the highway behind the guardrail until they are needed.

Construction debris only consist of empty bags of concrete and off cuts of wood, once created all bags are put into a trash bag and all off cuts are stacked on the shoulder of the highway until they are loaded up.

Soil from post holes are minimal and left on site.