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NOTES:

- Weld detail per AWS D1.4/D1.4M:2011, Fig. 3.2(A).
- 2. Remove portion of reinforcing steel by saw cutting as necessary to provide 1" clear to precast and 1" clear to lower containment wall. (See Detail on this sheet).
- 3. Butt weld rebar segment. Butt weld shall be V-Groove. Joints shall not be offset at weld by more than $\frac{1}{8}$ inch. Trim back or shape ends of rebars to be butt welded with a V-Groove by carbon arc, oxyacetylene cutting or sawing. (See Details on sheet 2 of 2).
- 4. Electrodes for manual shielded metal arc welding of ASTM A706 rebars shall conform to ASW 5.5 for E8016G3 or E8018 C3 electrodes.
- 5. Butt weld the new rebar to the exposed existing rebar with a single pass/layer.
- 6. Proceed to the next bar welding a single pass while letting the first welded bars cool off.
- When finished welding the first pass on all new bars, make sure that the first welded bars are cool then proceed with 2nd pass on each bar. Continue this process until weld is complete per structural repair detail. Immediately after completing welding, cover each side of welded joint with insulated wrapping to control rate of cooling. Keep insulated wrapping in place until rebar has cooled to below 200 degrees F or to the touch.
- 8. Electrodes to be furnished in hermethically sealed containers or dry for two hours at 450 degrees F to 500 degrees F before use. Immediately after removal from hermethically sealed containers or drying ovens, store electrodes in ovens held at temperatures of at least 250 degrees F. Redry electrodes not in use within 4 hours after removal from hermethically sealed containers or from drying ovens.
- 9. Do not weld in inclement or wet weather unless protection accepted by the engineer is provided.
- 10. Preheating or post heating of ASTM A706 rebars in weld area is not required.
- 11. Tack welding for alignment purposes will be allowed when tack weld will be consumed by subsequent weld.
- 12. All butt welds will be special inspected. Completed welds shall be nondestructive tested per section 602 of the specification in note 17. Welds shall show no sign of cracks, lack of fission, under cutting, excessive piping, porosity or inadequate size.
- 13. All butt welds shall be made by certified welders qualified for butt welding #4 and #5 rebars.
- 14. Completed butt weld joints shall develop not less than the specified tensile strength of the rebar.

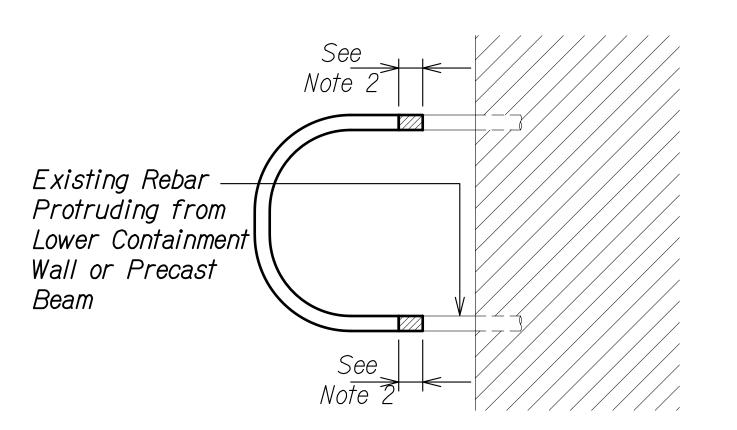
15. Qualify butt welded rebar joint splice with job control tests on sample joint splice per section 602 of the specification in note 17. Welded butt joint in reinforcing steel shall be complete joint penetration butt welds conforming to requirements of AWS D1.4 Figure 3.2(A) Single V-Groove weld.

Job control tests: Sample joint splice shall consist of splice made at the job site to connect two 30 inch long minimum length bars, using same rebar size, material, splice material, position, location and equipment and following same procedures as are being used to make joint splices in the work. Make and test sample joint splice in the presence of the special inspector and perform nondestructive test on completed weld.

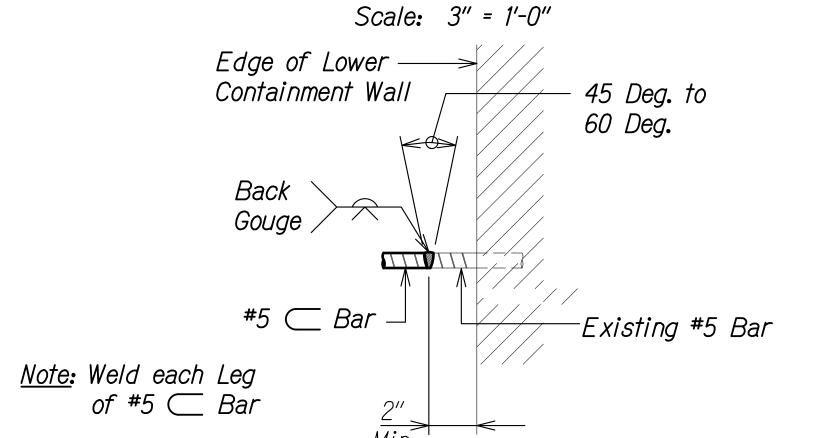
Perform nondestructive test on joint splices by radiographic examination of completed joint penetration butt welded joints. Welds found to be defective shall be repaired in accordance with requirements of AWS D1.4.

16. Maximum stringer bead width shall be 2.5 times electrode diameter. Perform slagging between each weld pass. Weld reinforcement shall not exceed 1/8 inch in convexity.

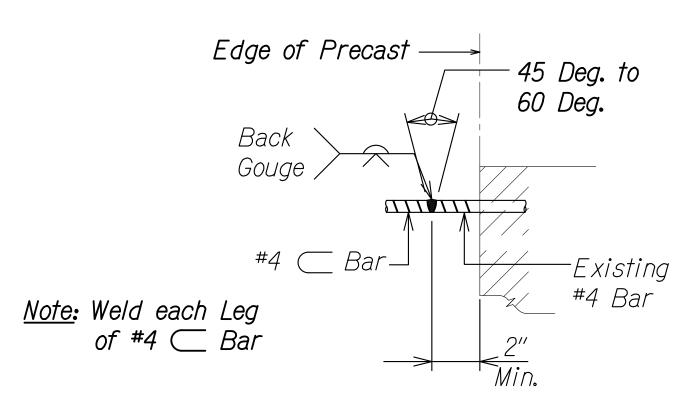
FED. ROAD DIST. NO. FEDERAL AID PROJ. NO. FISCAL SHEET TOTAL HAWAII HAW. ER-22(002) 2019 71 S-1 94



REBAR ALTERATION DETAIL



SIDE VIEW OF LOWER CONTAINMENT WALL



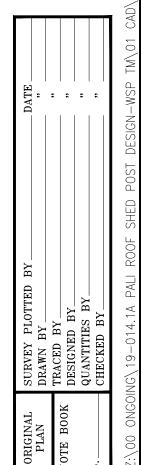
SIDE VIEW OF PRECAST Scale: 3" = 1'-0"

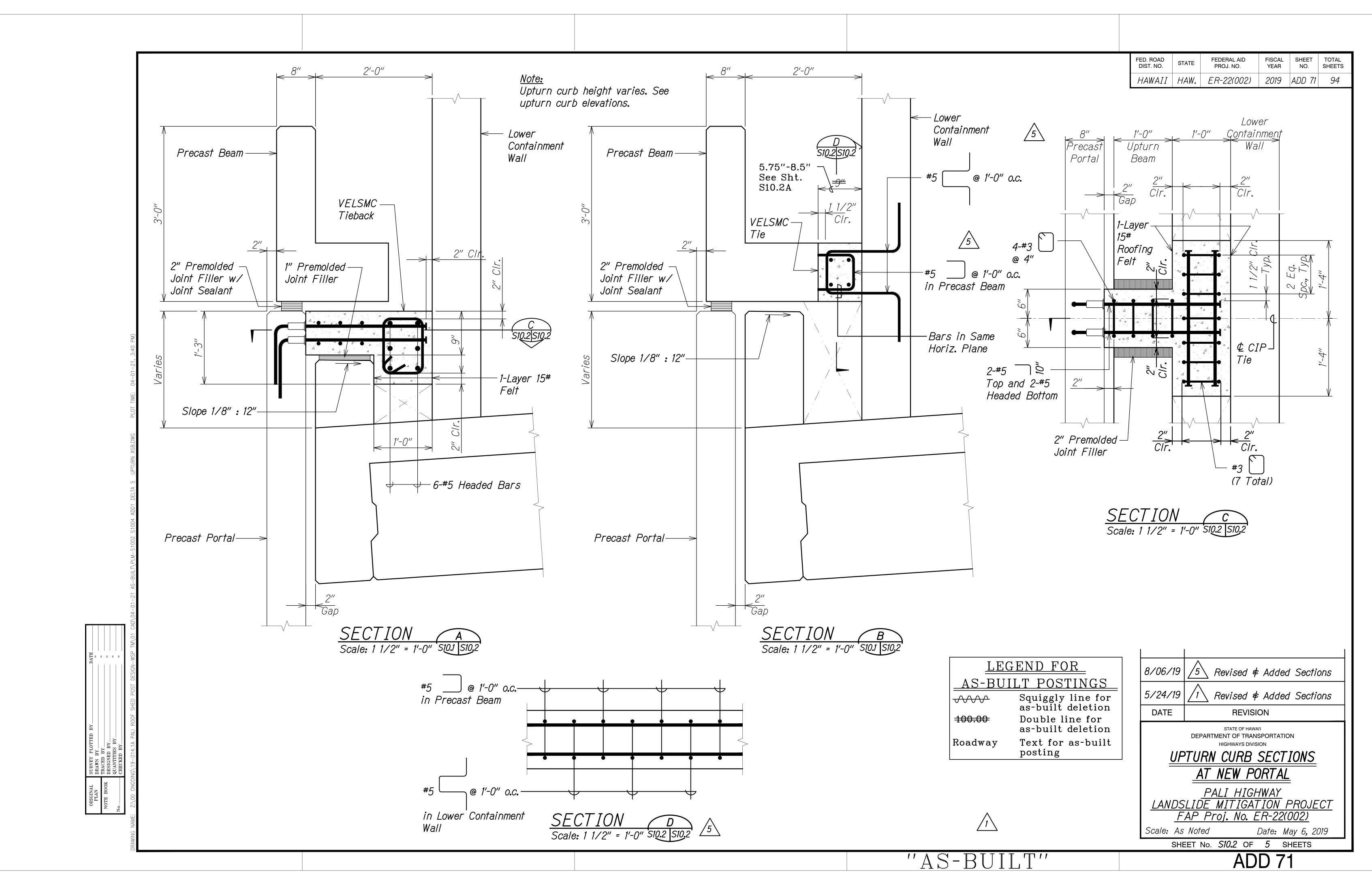
PRECAST PORTAL AND LOWER

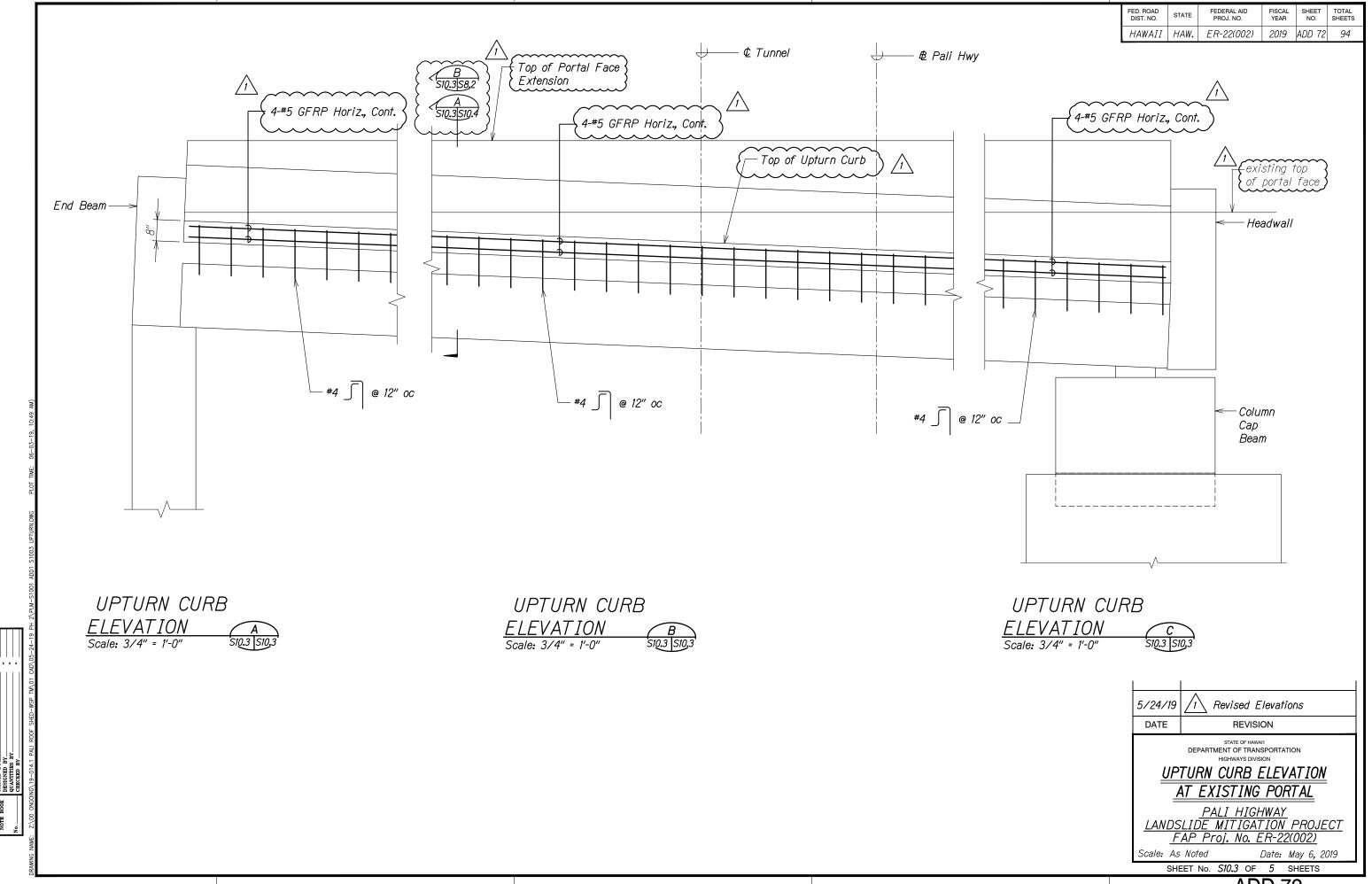
CONTAINMENT WALL REBAR ALTERATION PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002)

Scale: As Noted Date: May 6, 2019 SHEET No. S10.2A OF 5 SHEETS

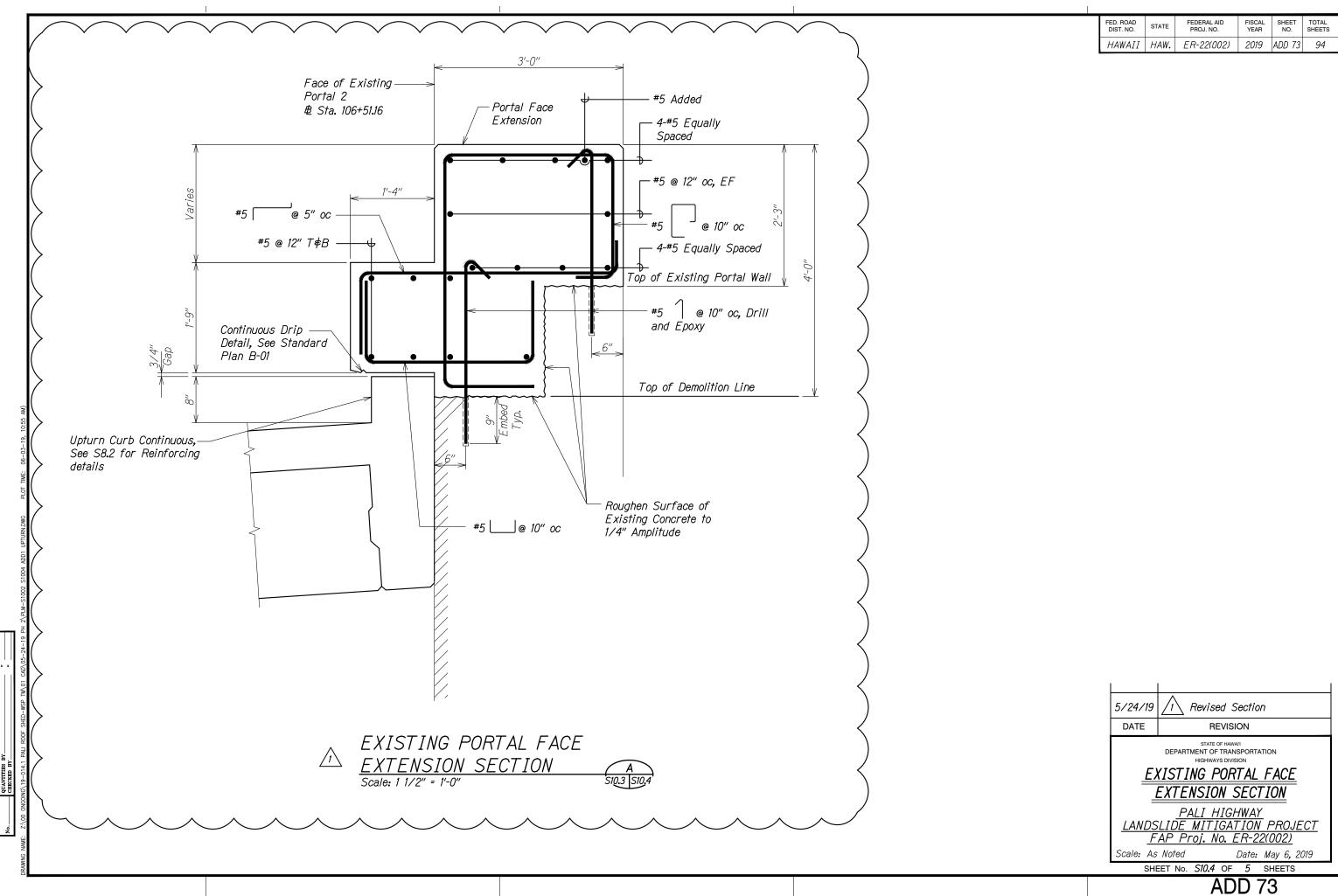
3/26/21 As Built - New Sheet **REVISION** DATE

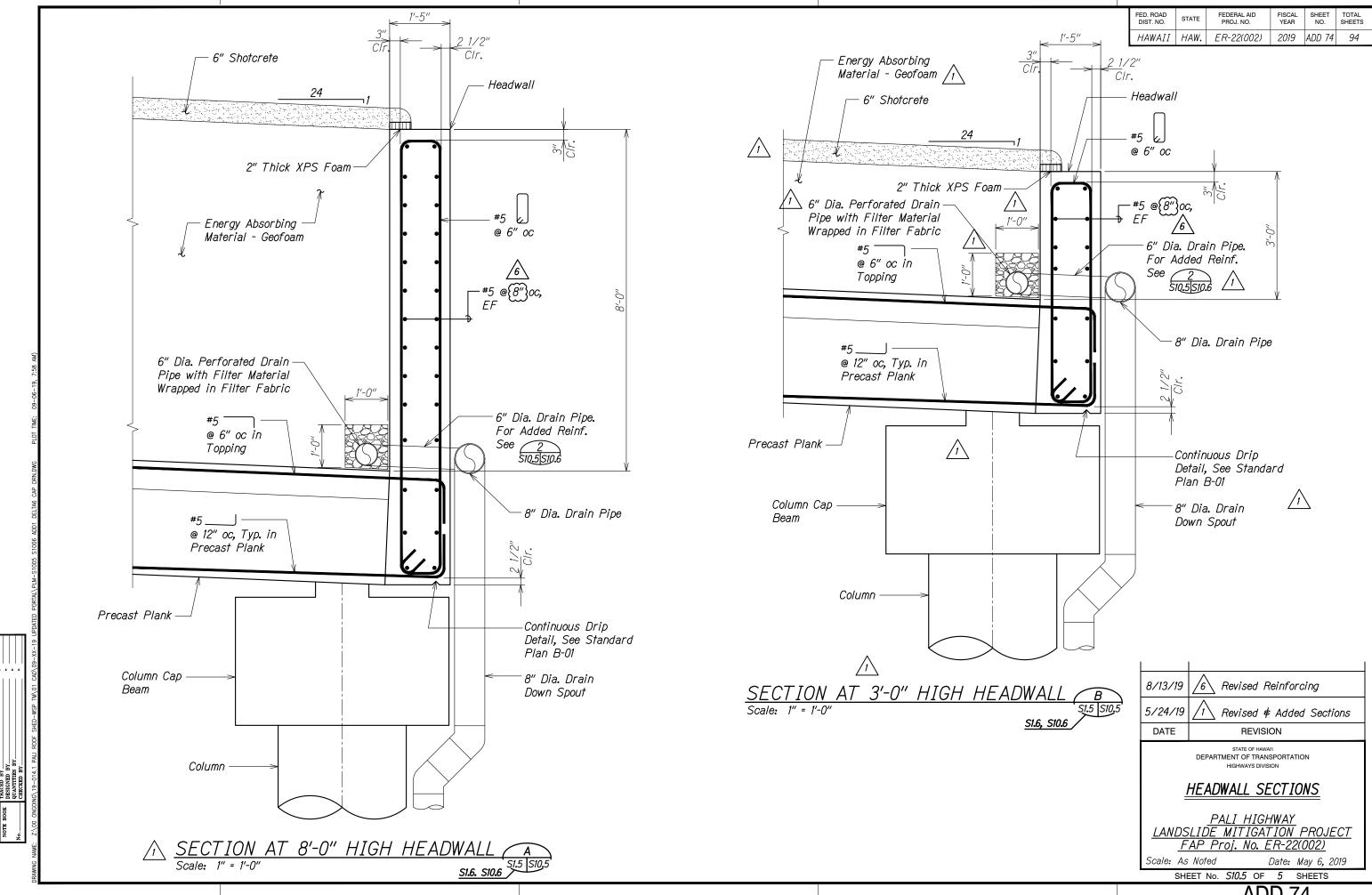




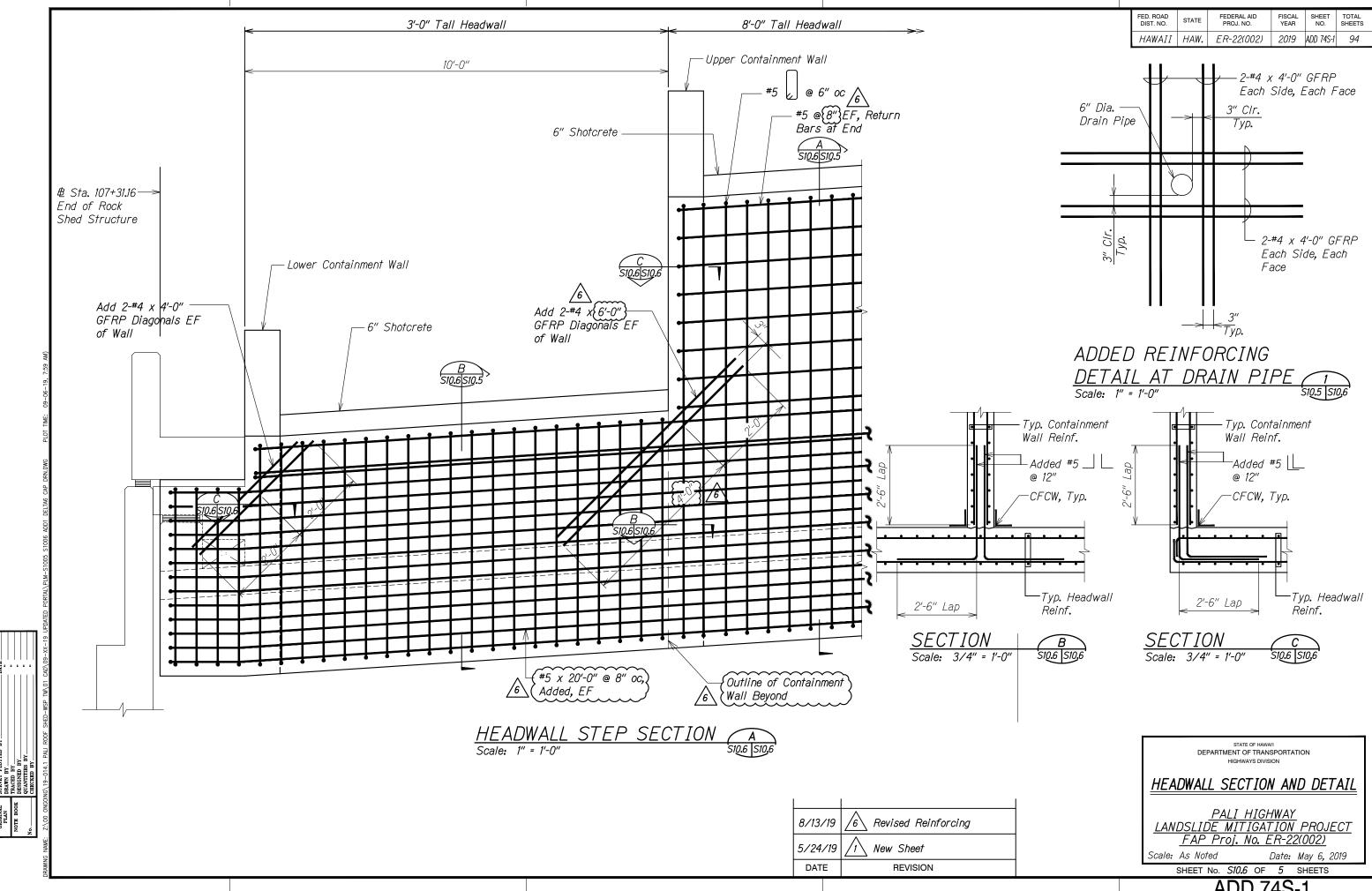


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