

1. Sawcut perimeter to a depth of 1/2" or to top of transverse reinforcing (if concrete cover is less than 1/2").

2. Use chipping hammers less than 15 lb. to remove concrete within 3 horizontal inches of the repair perimeter, and

3. Hydro demolition or chipping tools no heavier than 60 lb

4. Existing concrete and reinforcing to remain undamaged.

Construction equipment causing

vibrations are not permitted on precast girder spans undergoing deck repair.

Equipment shall not be located on precast girder spans undergoing deck repair unless approved by the Engineer.

Submit location and duration of equipment, including vehicles axial load and spacing used during the repair work on the deck for review and approval.

Apply Bonding Agent Where Required

on Vertical and Horizontal Surfaces, See Specifications

BR-H1-1 (263) 2012 Affected area ACI Required lap ACI Required lap loss of section

STATE

FED. AID PROJ. NO.

FED. ROAD DIST. NO.

1. If rebar has lost more than 25% of its cross section, consult the Engineer.

2. If repairs are required to reinforcing steel use one of following repair methods:

🔊 New lap

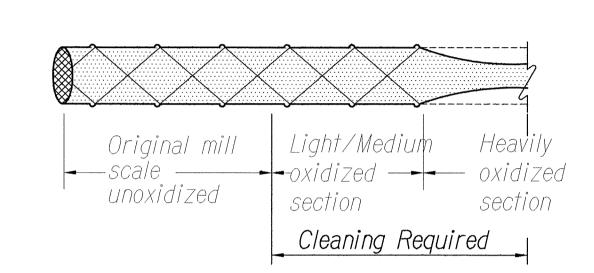
FISCAL YEAR

TOTAL SHEETS

Recommended Clearance

A. Complete bar replacement, or

- B. Addition of supplemental bar over affected section, new bar shall be welded to old bar or placed parallel to and approximately 3/4" from existing bar, see S-4 for welding details.
- 3. Lap length shall be determined in accordance with ACI 318, also refer to CRSI manual.



Cleaning underside of bar

Path of abrasives

1. Remove heavy oxides and scale from bar to promote maximum bond of replacement material. oil free abrasive blast is preferred method. A tightly bonded light oxide built-up on surface may result from highpressure water blasting, with or without abrasive. this is usually not detrimental to bond, unless a protective coating is being applied to bar surface, in which case follow coating manufacturer's recommendations for surface preparation.





THIS WORK WAS PREPARED BY

SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAI'I **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

TYPICAL DETAILS

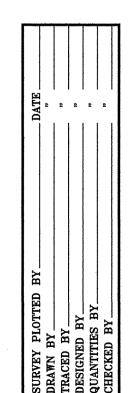
S-3 S-3

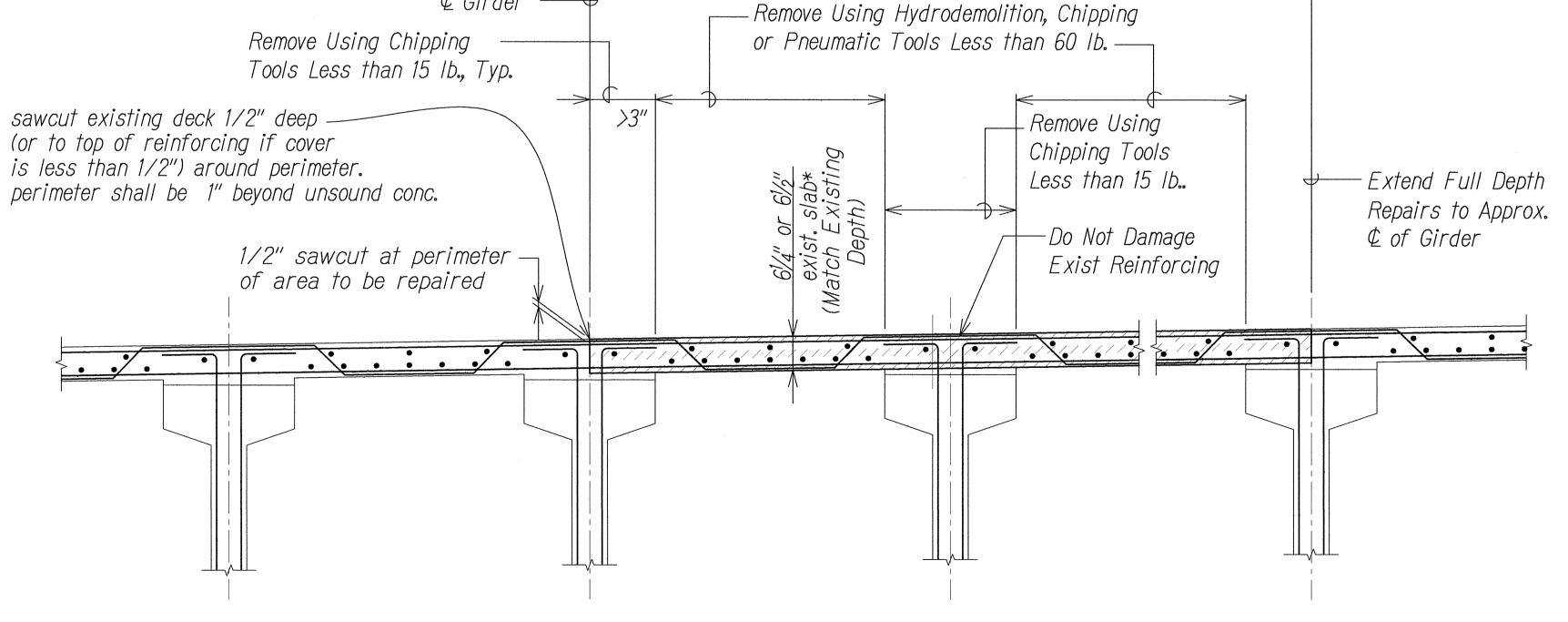
INTERSTATE ROUTE H-1 FEDERAL AID PROJECT NO. BR-H1-1 (263)

Scale: As Noted

Date: July 2012

SHEET No. S-3 OF 18 SHEETS





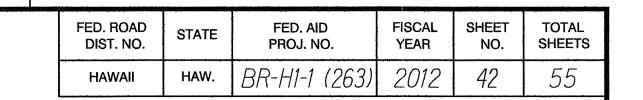
FULL DEPTH SLAB REPAIR SECTION

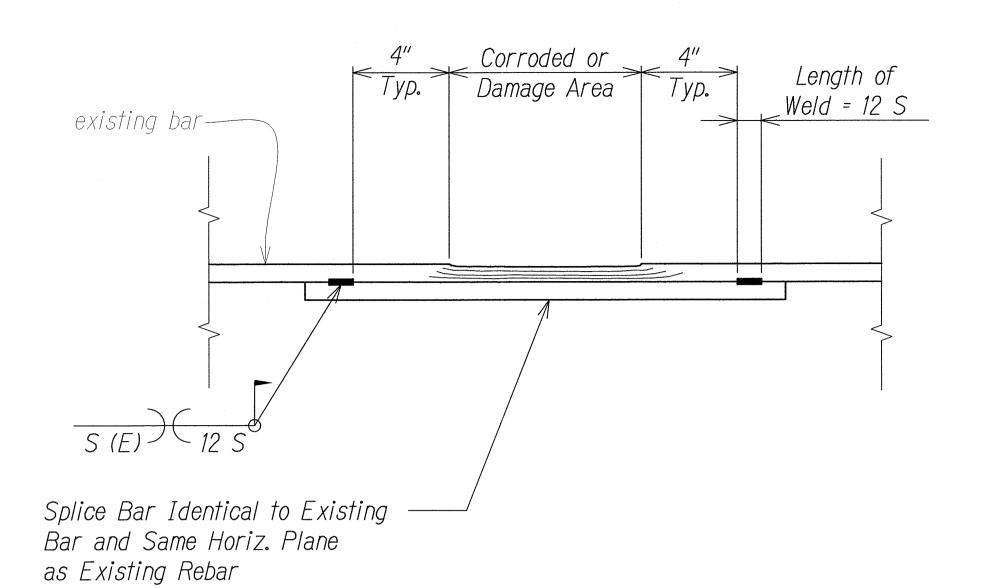
PERPENDICULAR TO TRAFFIC LANES

Scale: 3/4" = 1'-0"

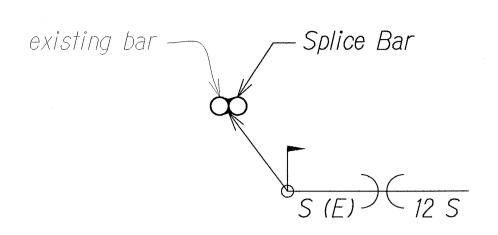
Full Depth Slab Deck Repair

* As shown in original contract construction drawings, See Structural Note 1.c. on sheet No. S-0.





PLAN VIEW REINFORCING BAR LAP WELDS SPLICE DETAIL APPLIES TO FULL AND PARTIAL DEPTH REPAIR S-4 S-4

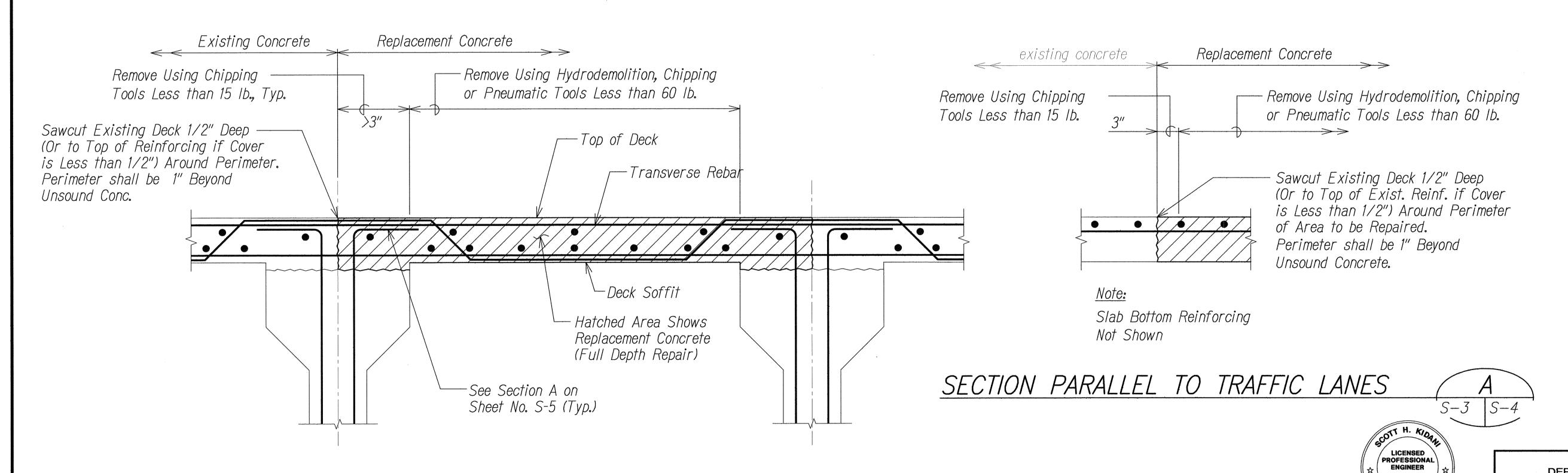


SPLICE BAR

Notes:

- 1. Splice bars shall be direct lap joint bars in contact with double-flare-V-groove welds.

 Where S = radius of reinforcing bar and E = Effective weld size = 0.65S.
- 2. New reinforcing steel shall be ASTM A 706. All welded reinforcing steel shall be ASTM A 706 where welded connections are required.
- 3. All welding shall be done in accordance with the reinf. Steel Welding Code AWS D1.4 and Specification Section 602.
- 4. Repair material and procedures shall be accepted by the Engineer before use.



SECTION PERPENDICULAR TO TRAFFIC LANES

FULL DEPTH REPAIR DETAILS

Scale: Not to Scale

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE EXPIRATION DATE OF THE LICENSE

<u>INTERSTATE ROUTE H-1</u> FEDERAL AID PROJECT NO. BR-H1-1 (263)

Scale: As Noted

Date: July 2012

SHEET No. S-4 OF 18 SHEETS

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