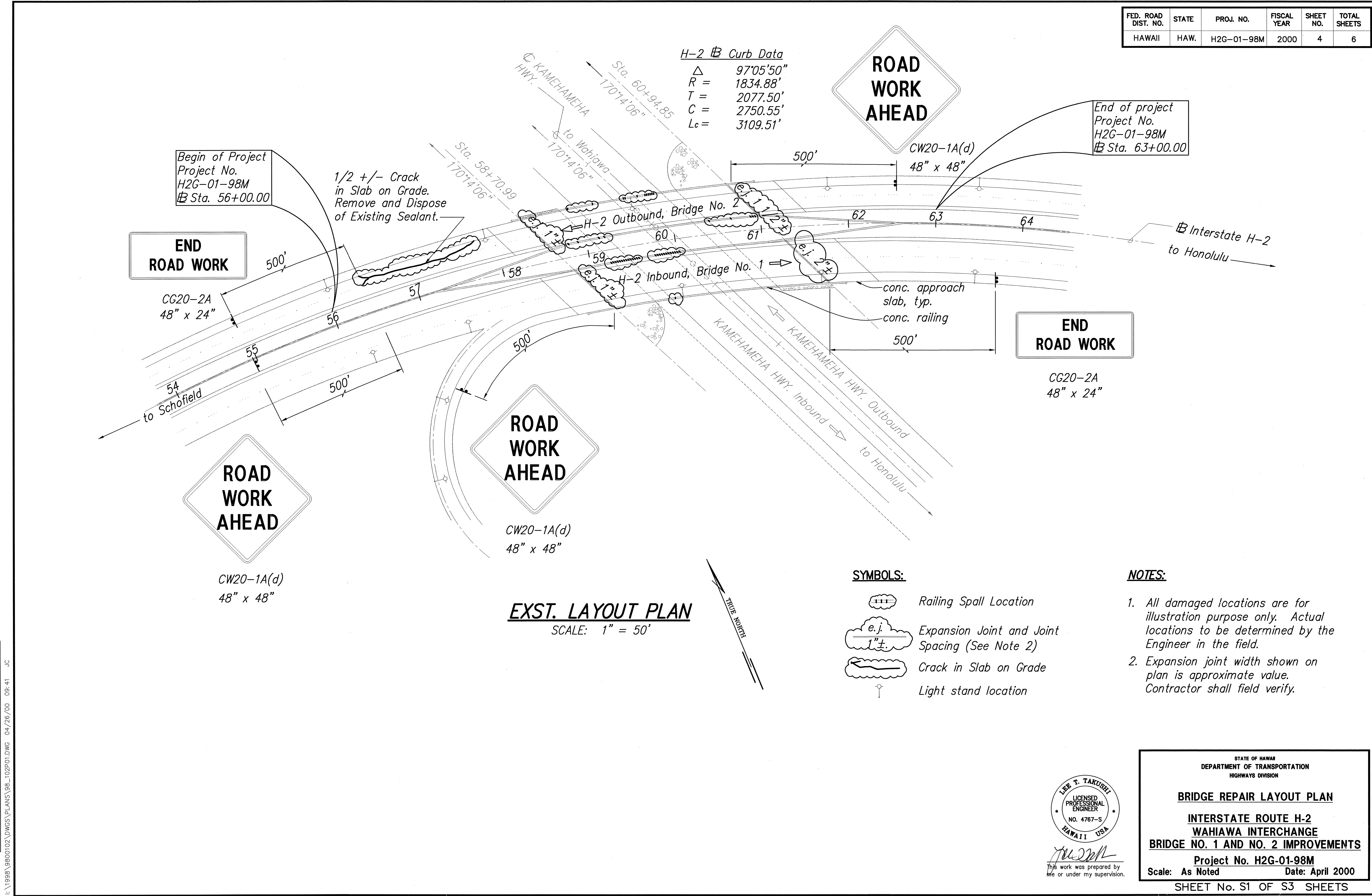


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2G-01-98M	2000	4	6



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
	CHECKED BY	

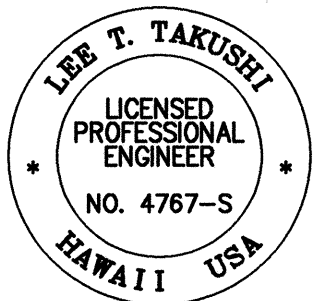
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SYMBOLS:

- Railing Spall Location
- Expansion Joint and Joint Spacing (See Note 2)
- Crack in Slab on Grade
- Light stand location

NOTES:

- All damaged locations are for illustration purpose only. Actual locations to be determined by the Engineer in the field.
- Expansion joint width shown on plan is approximate value. Contractor shall field verify.



This work was prepared by me or under my supervision.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE REPAIR LAYOUT PLAN

INTERSTATE ROUTE H-2
WAHIAWA INTERCHANGE
BRIDGE NO. 1 AND NO. 2 IMPROVEMENTS

Project No. H2G-01-98M

Scale: As Noted Date: April 2000

SHEET No. S1 OF S3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2G-01-98M	2000	5	6

REPAIR NOTES:

- All deteriorated, damaged, cracked, spalled, honeycombed concrete (asphalt, Portland cement, magnesium phosphate and/or polyurethane) or concrete over corroded reinforcing bars shall be removed as shown and repaired with repair concrete.

face of exist. concrete

Hatched Area Denotes Approx. Damaged Area From Which Loose or Unsound Concrete has been Partially Removed.

Limits of Conc. Removal or Conc. Patch (see Detail this Sheet)

- Provide minimum 1 1/2" concrete cover over reinforcement.
- Reinforcing bars that have corroded more than 25% of their original cross sectional area shall be strengthened as shown on "Reinforcing Bar Repair Splice Detail", this sheet.
- The Engineer shall determine all areas to be repaired and the limits of repair at each area.
- Apply silane waterproofing to patch area and adjacent 6" of exist. surfaces as approved by the Engineer. Application shall be according to the manufacturer's recommendations.

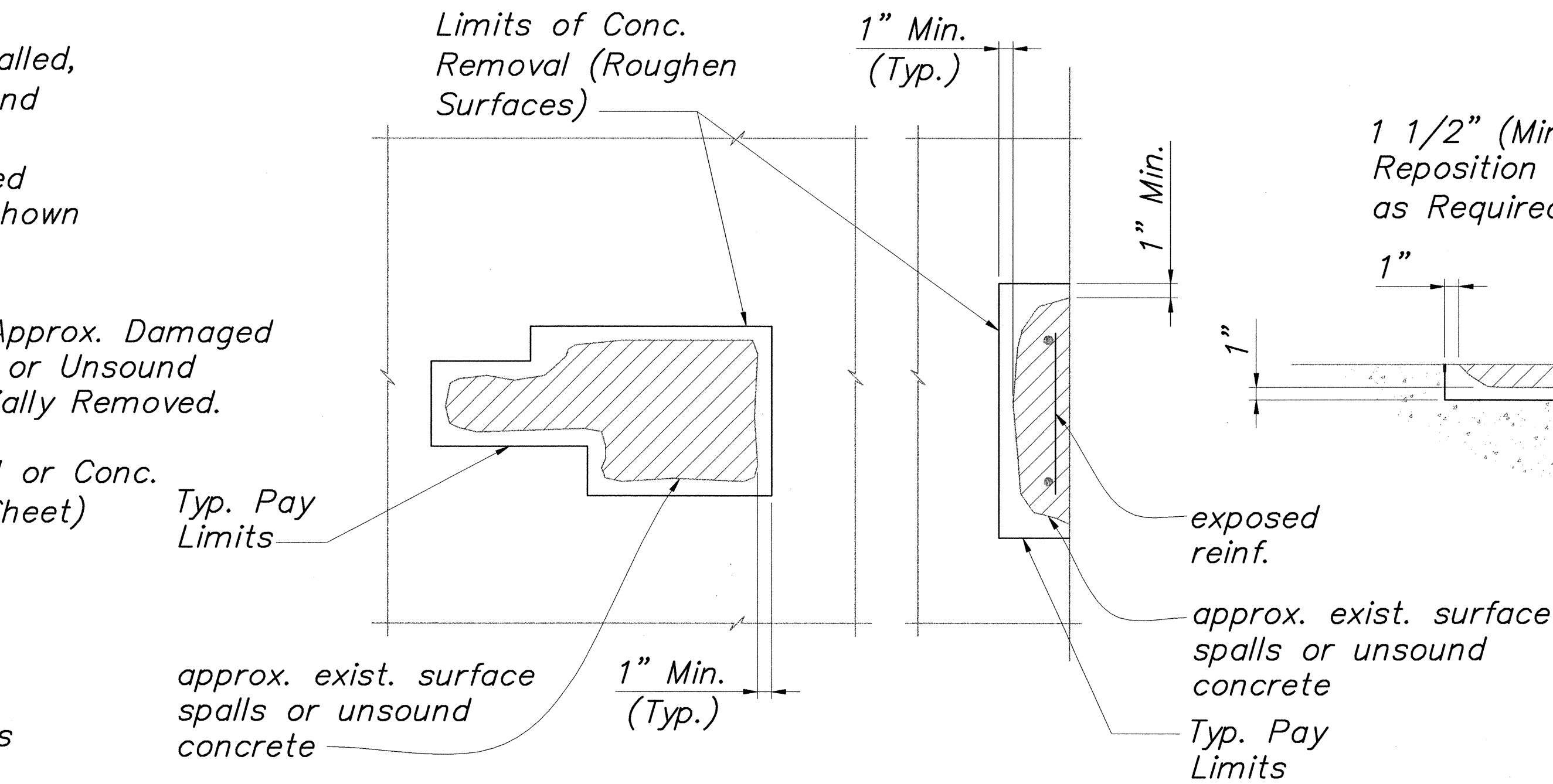
INCIDENTAL ITEMS:

The following items shall be considered incidental to the various pay items or repairs and will not be paid for separately:

- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars of repair splice for strengthening corroded bars.
- Cutting, and/or repositioning existing reinforcing bars or doweling reinforcing bars into the existing concrete deck.
- Replacing all pavement markers and striping damaged during the construction of this project.
- Furnishing and applying of silane waterproofing material.

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	QUANTITY	UNIT
675.0100	Railing Spall Repair	50*	S.F.

* Indicates estimated overrun



PLAN OR ELEVATION

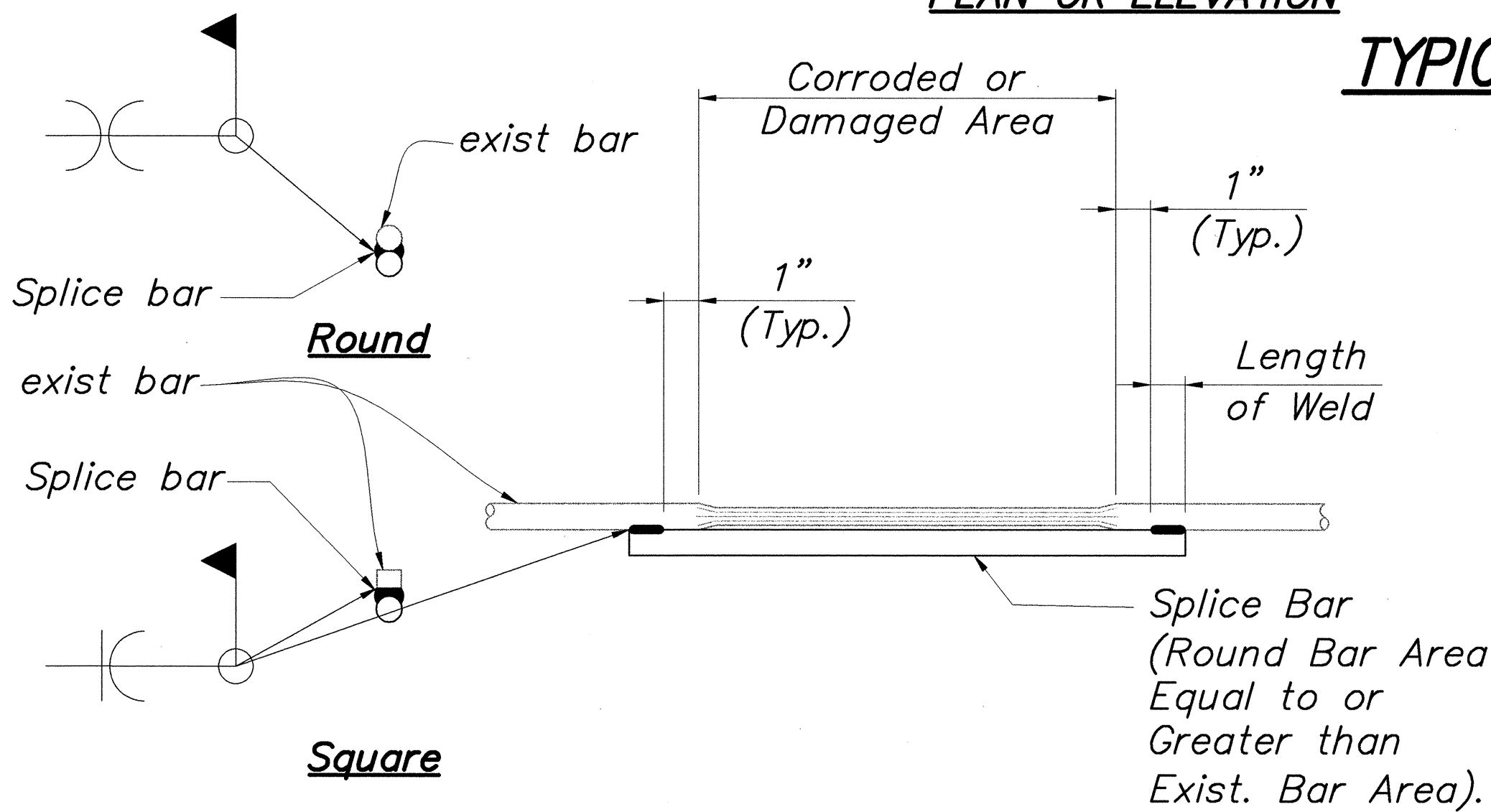
AT SURFACE

TYPICAL SECTIONS

AT CORNERS

TYPICAL CONCRETE REPAIRS

NOT TO SCALE



WELD SCHEDULE FOR REINF. SPLICE

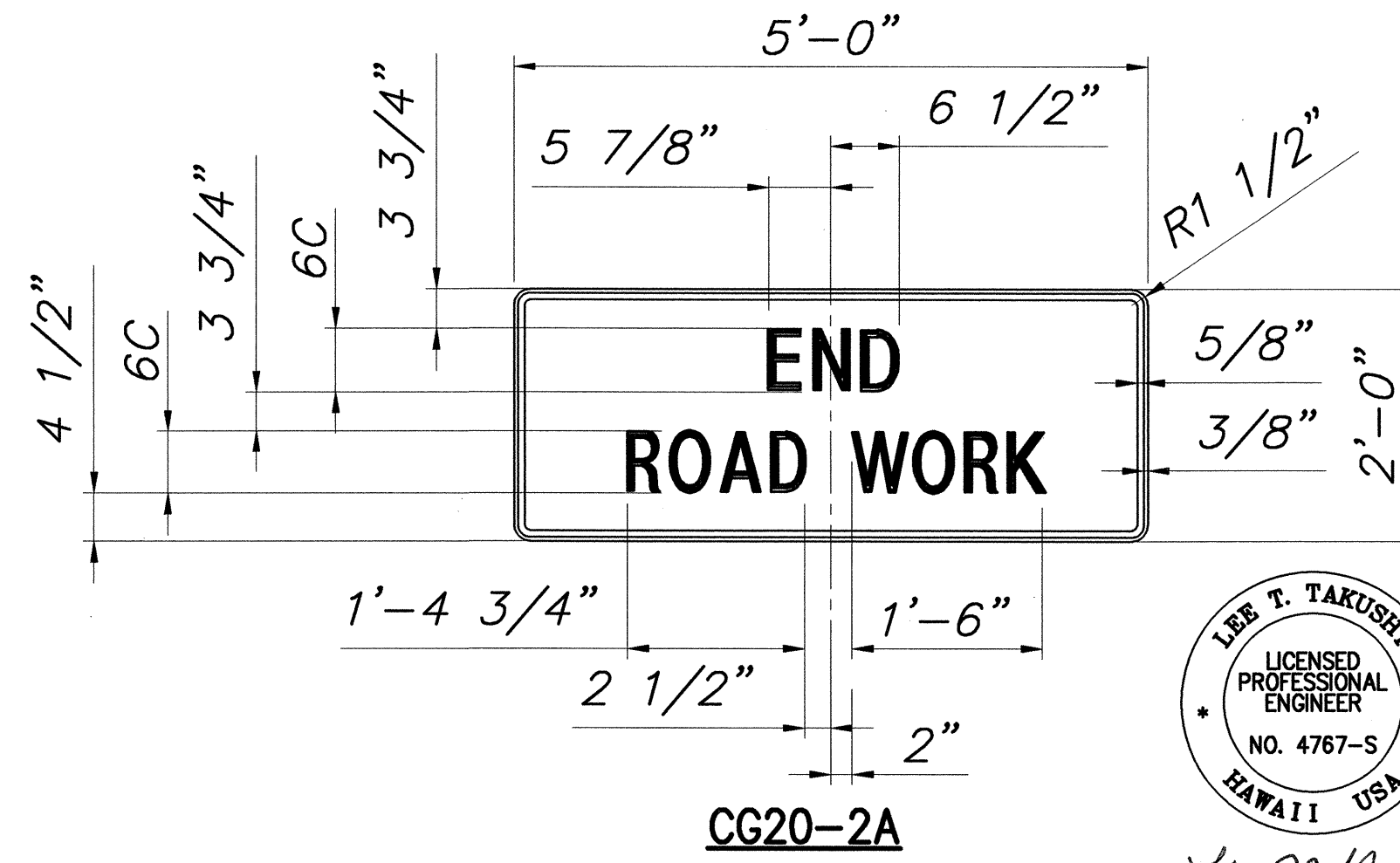
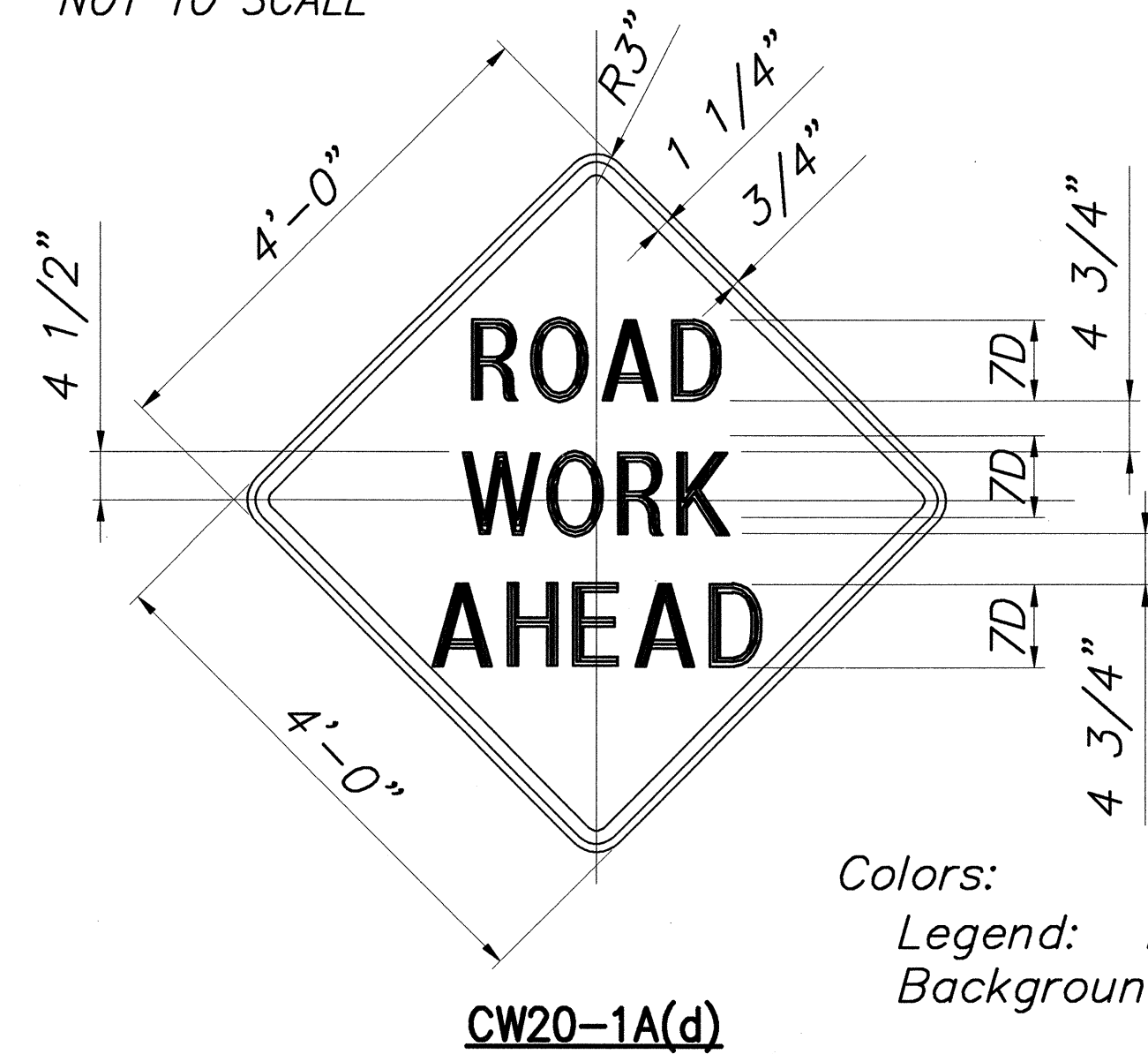
REINF. SIZE	WELD SIZE	WELD LENGTH
#4	1/4"	1"
#5	5/16"	1 1/4"
#6	3/8"	1 1/2"
#7	7/16"	1 3/4"
#8	1/2"	2"

REINFORCING BAR REPAIR SPLICE DETAIL

NOT TO SCALE

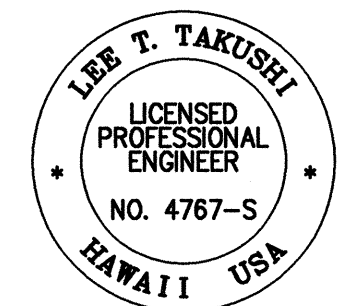
REPAIR NOTES:

- Apply epoxy seal to spall repairs and adjacent 3" of existing surfaces. Application shall be according to the manufacturer's recommendations.



SIGN DETAILS

NOT TO SCALE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

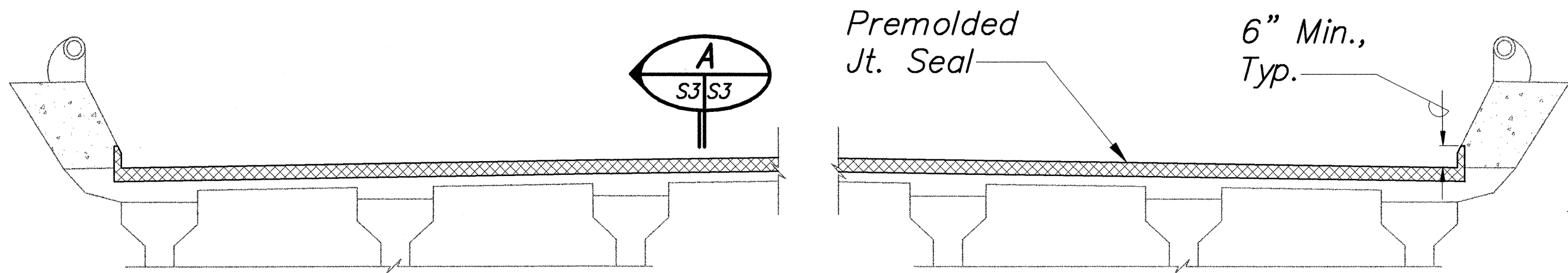
SPALL REPAIR DETAILS

INTERSTATE ROUTE H-2
WAHIAWA INTERCHANGE
BRIDGE NO. 1 AND NO. 2 IMPROVEMENTS
Project No. H2G-01-98M
Scale: As Noted Date: April 2000

SHEET No. S2 OF S3 SHEETS

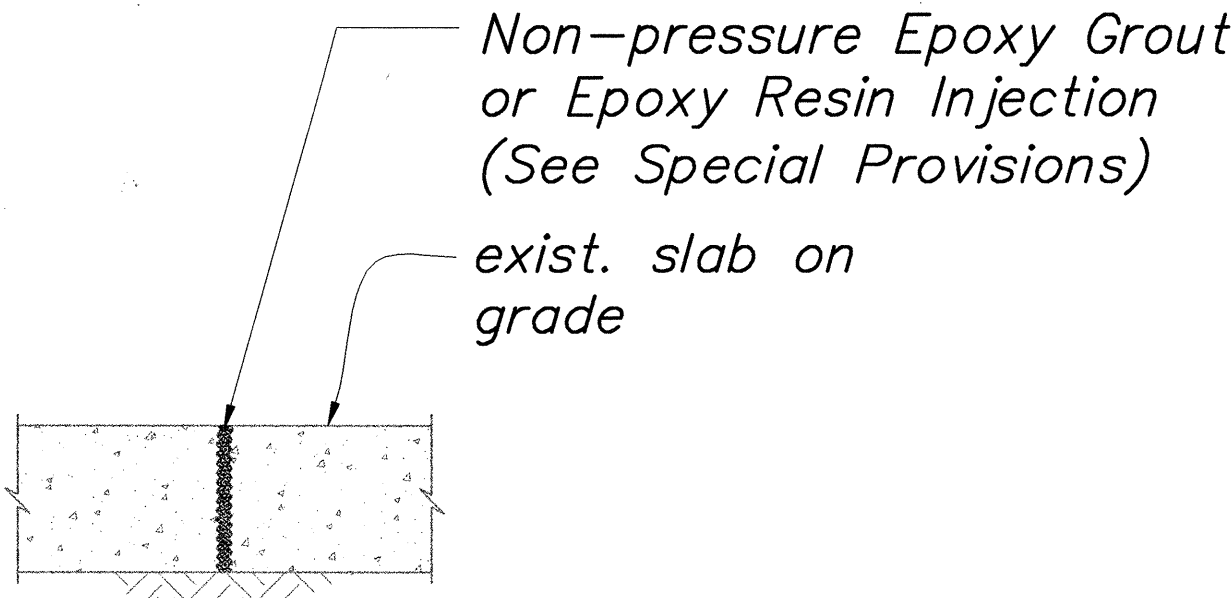
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2G-01-98M	2000	6	6



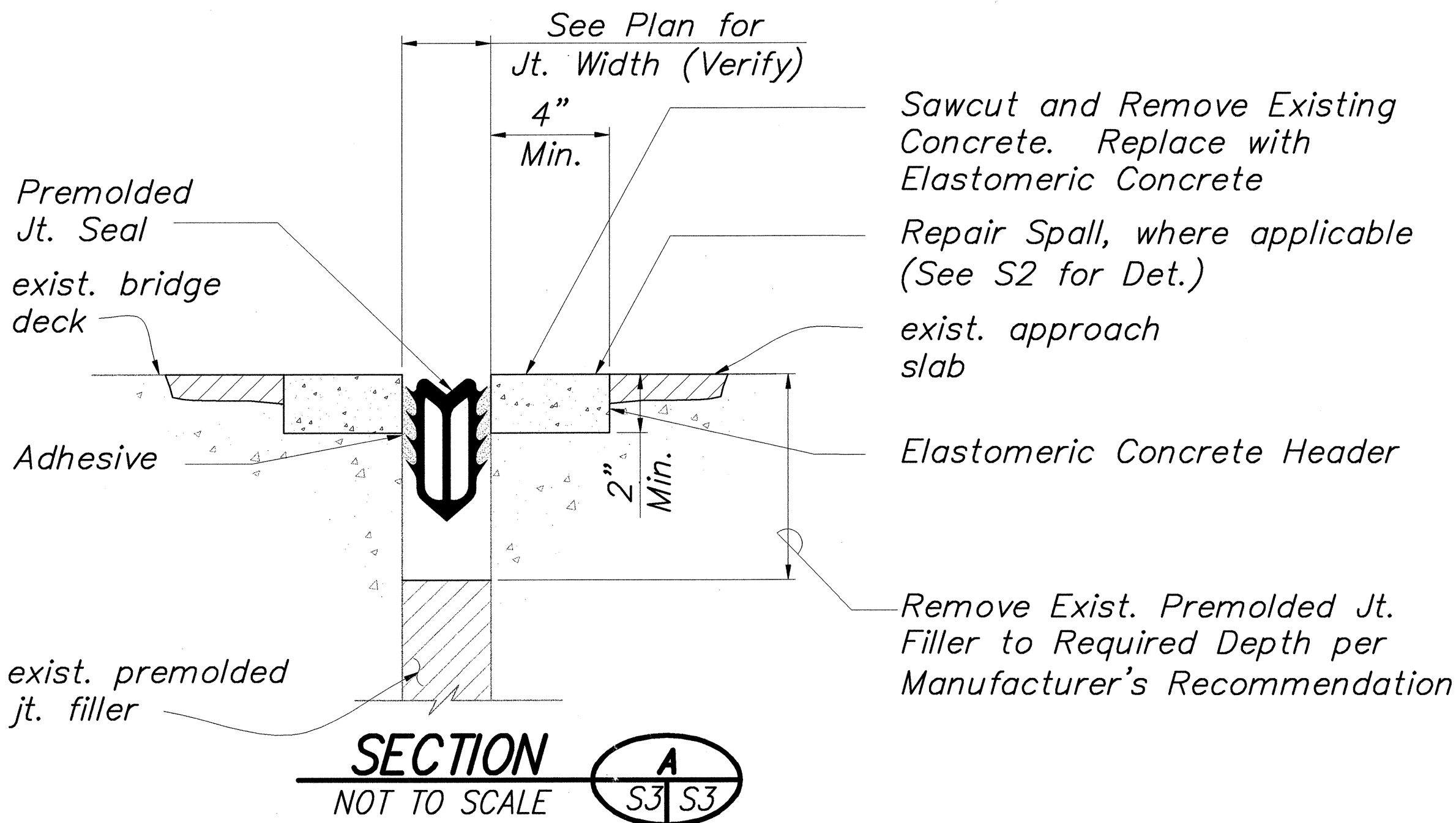
TYPICAL SECTION AT DECK EXPANSION JOINT DETAIL

NOT TO SCALE



CRACK REPAIR DETAIL FOR GRADE SLAB

NOT TO SCALE

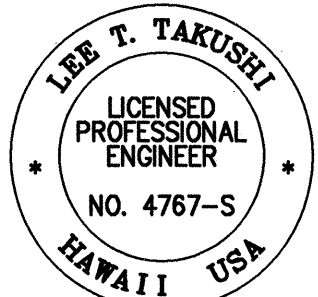


ESTIMATED QUANTITIES			
ITEM NO.	ITEM	QUANTITY	UNIT
674.0100	Grade Slab Crack Repair	200*	L.F.
676.0100	Joint Edge Spall Repair	260*	S.F.
677.0100	Preformed Joint Seals (253 L.F.)	L.S.	L.S.

* Includes Estimated Overrun

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" "
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPANSION JOINT REPLACEMENT
AND GRADE SLAB CRACK REPAIR DETAILS

INTERSTATE ROUTE H-2
WAHIAWA INTERCHANGE
BRIDGE NO. 1 AND NO. 2 IMPROVEMENTS
Project No. H2G-01-98M
Scale: As Noted Date: April 2000

SHEET No. S3 OF S3 SHEETS