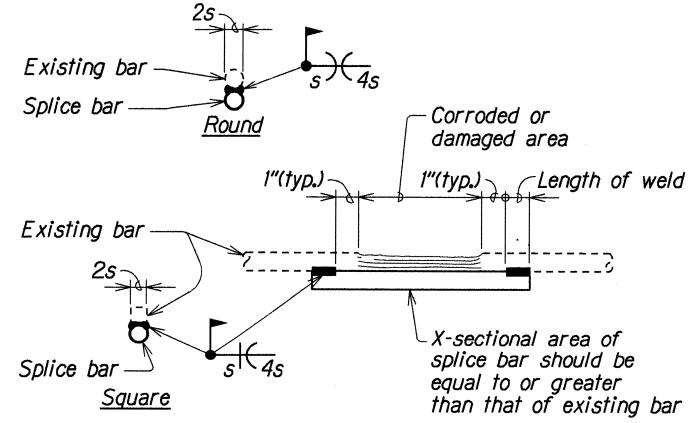


AT SURFACE AT CORNERS TYPICAL SECTIONS TYPICAL CONCRETE REPAIRS

Not to Scale



REINFORCING BAR REPAIR SPLICE DETAIL Not to Scale

FED. ROAD STATE FISCAL SHEET TOTAL YEAR NO. SHEETS PROJ. NO. HAW. 83D-01-97M 1997 HAWAII

GENERAL NOTES

REPAIR NOTES:

- All deteriorated, damaged, cracked, spalled, honeycombed concrete or concrete over rusted reinforcing bars shall be removed as shown and repaired with hand-placed mortar or shotcrete.
- 2. Provide minimum 2" concrete cover over reinforcement or welded wire fabric. See specifications for welded wire fabric requirements.
- 3. Reinforcing bars that have rusted more than 25% of their original cross sectional area shall be cleaned and strengthened as shown on "Reinforcing Bar Repair Splice Detail", this sheet.
- 4. The Engineer shall determine all areas to be repaired and the limits of repair at
- Apply silane waterproofing 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 for repairs and will not be paid for separately:

- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars for repair splice.
- Furnishing and application of silane waterproofing material.

GENERAL:

- All reinforcing steel to be ASTM A 615 Grade 40.
- All welding shall be done in accordance with the current edition of the Reinforcing Steel Welding Code AWS D1.4.
- Maintenance ¢ control of traffic--See Special Provisions sub-section 104.04.

SYMBOLS AND ABBREVIATIONS:

- Spall or unsound surface area.

— Exposed reinf. bars

S.S. - Surface spall (Concrete)

S.C. - Surface crack (Concrete) H.C. - Hairline crack

S.F. or sq. ft. - Square feet

L.F. - Linear feet

| ESTIMATED QUANTITIES | | | |
|----------------------|-------------------------------------|------|----------|
| ITEM NO. | ITEM | UNIT | QUANTITY |
| 676,1000 | Spall Repair - Kaaawa Stream Bridge | S.F. | 1,800 * |
| 677,1000 | Crack Repair - Kaaawa Stream Bridge | L.F. | 250 * |

* Includes estimated overrun.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

KAMEHAMEHA HIGHWAY
Repair Spalls at Soffit, Piles and Pier Caps
on Kaaawa Stream Bridge
Proj. No. 83D-01-97M

Scale: As Noted

Date: Dec, 1996 SHEET No. Q1 OF 2 SHEETS

DEC 1996 DEC 1996

KBY

