

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-91M	1991	4	4

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.

Face of existing concrete

Hatched area denotes approximate damaged area from which loose or unsound concrete has been partially removed.

Limits of concrete removal or concrete patch (see detail this sheet). Apply bonding agent immediately before placing mortar or concrete.
- Provide min. 2" conc. cover over reinforcement or welded wire fabric. See specifications for welded wire fabric requirements.
- Reinforcing bars that have rusted more than 25% of their original cross sectional area shall be strengthened as shown on Repair Splice Detail, this sheet.
- Efflorescence shall be inspected and repaired as directed by the Engineer.
- All cracks shall be repaired by applying epoxy under pressure. See Specifications.
- The Engineer shall determine all areas to be repaired and the limits of repair at each area.
- Apply Hydrozo Clear 16 Waterproofing or equivalent 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 of repairs & will not be paid for separately.

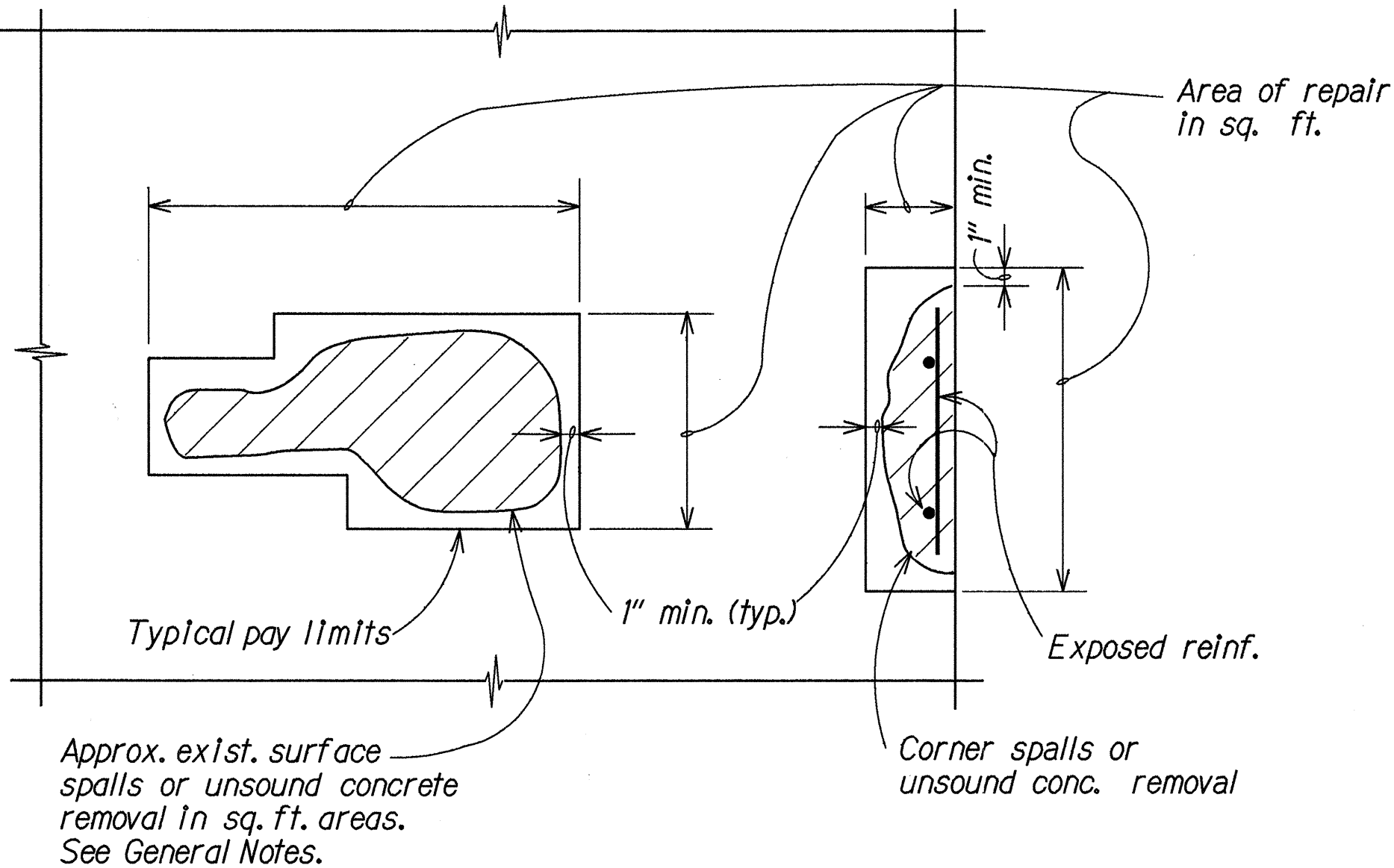
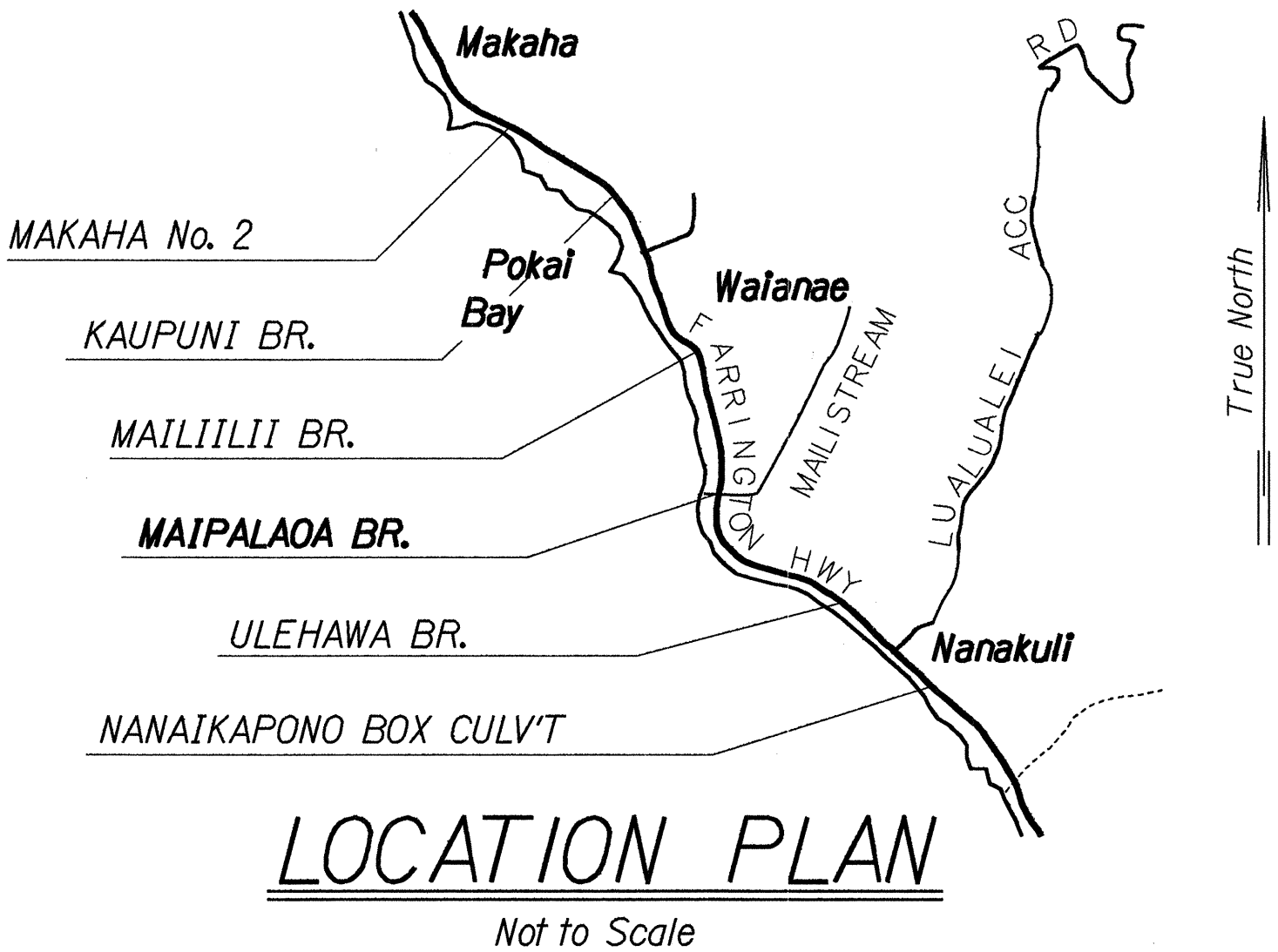
- Bolts & other miscellaneous hardware including hot-dipped galvanized and welded wire fabric.
- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars of repair splice for strengthening corroded bars.
- Furnishing and application of Hydrozo Clear 16 Waterproofing Material.

GENERAL:

- All reinforcing steel to be ASTM A615 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 & sub-section 676.03(A).
- Repairs to the underside of slab shall be made in sections & sequences as indicated in note at left.

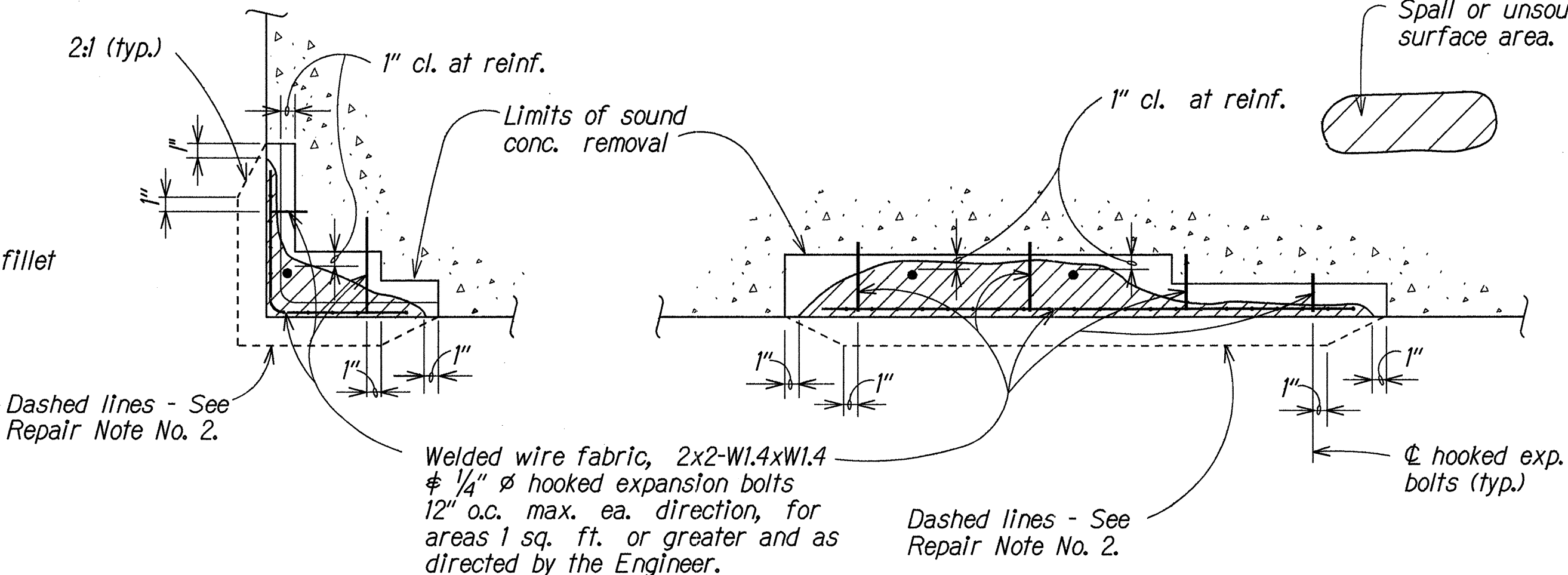
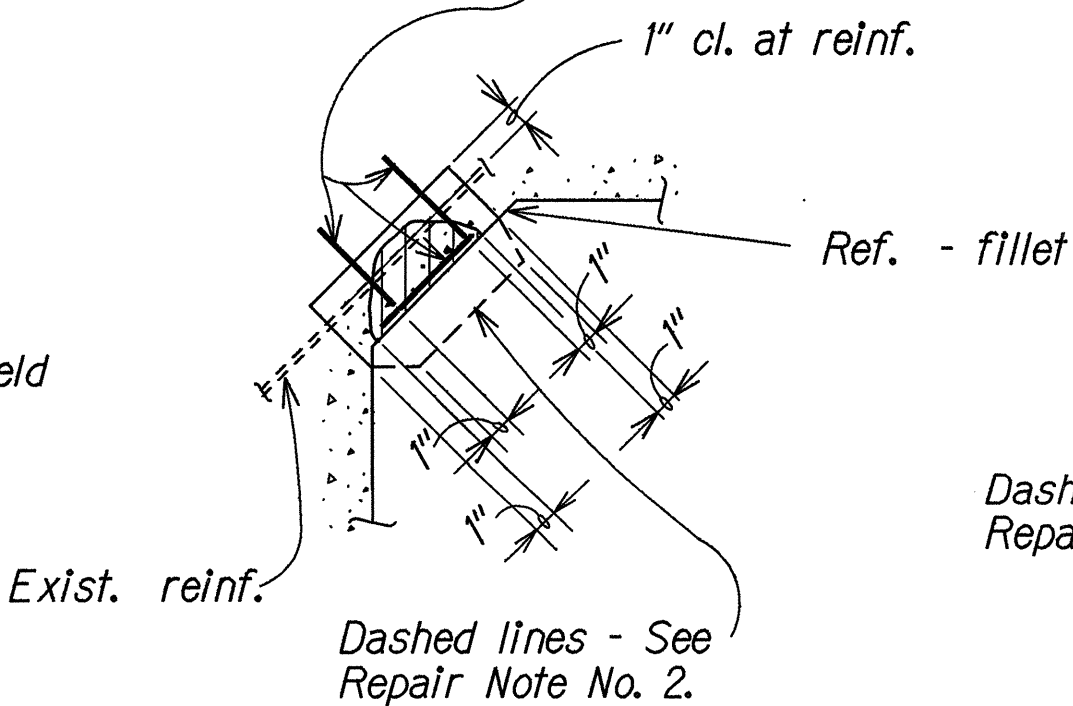
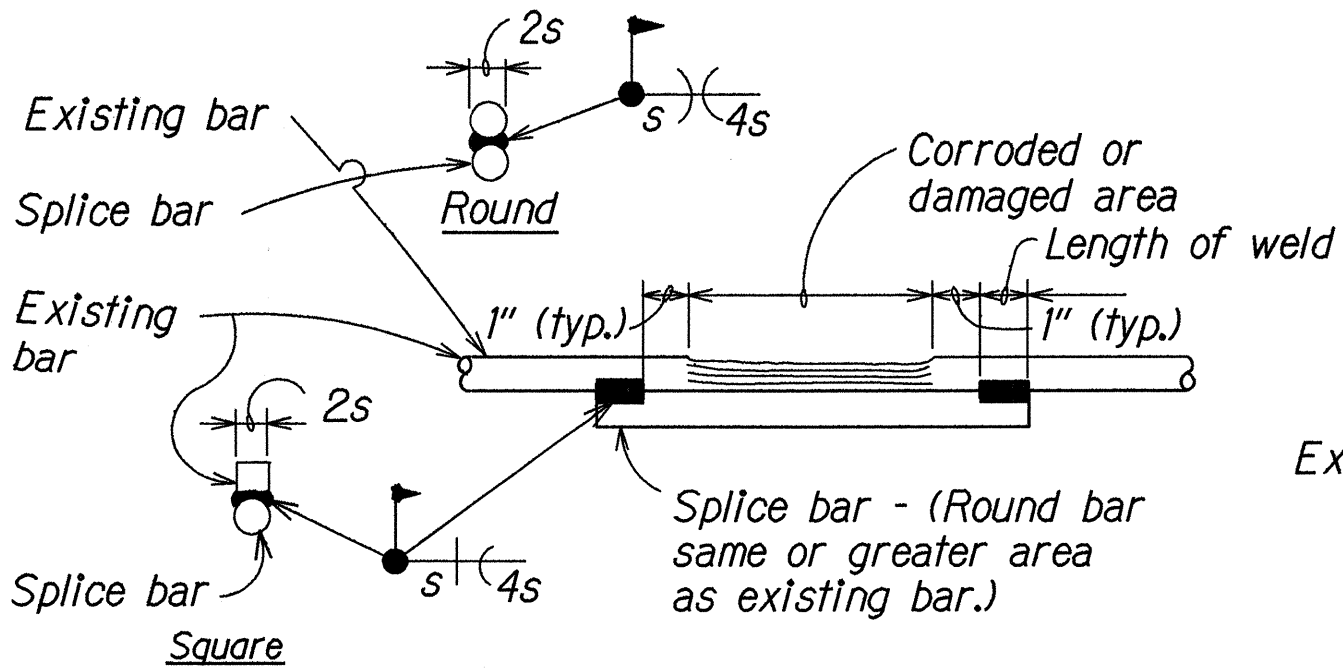
SYMBOLS & ABBREVIATIONS:

- Spall or unsound surface area.
- Exposed reinf. bars where occurs.
- S.S. - Surface spall (Concrete)
- S.C. - Surface crack (Concrete)
- H.C. - Hairline crack
- S.F. - Square feet
- L.F. - Linear feet



PLAN OR ELEVATION

Welded wire fabric, 2x2-W1.4xW1.4 # 1/4" ϕ hooked expansion bolts 12" o.c. max. ea. direction, for areas 1 sq. ft. or greater and as directed by the Engineer.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MAIPALAOA BRIDGE REPAIR
TYPICAL BRIDGE REPAIR DETAILS
FARRINGTON HIGHWAY
Proj. No. 93A-01-91M

Scale: As Shown Date: July 1990

SHEET No. P2 OF 2 SHEETS