

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83B-02-77M	1977	2	3

Exposed reinf. bars in spalls

SYMBOLS & ABBREVIATIONS

- Surface spalls and honeycomb
- S.C. = Surface crack.
- s.f. = Square feet.
- M.P. = Mile Post
- l.f. = Linear feet.

General Notes

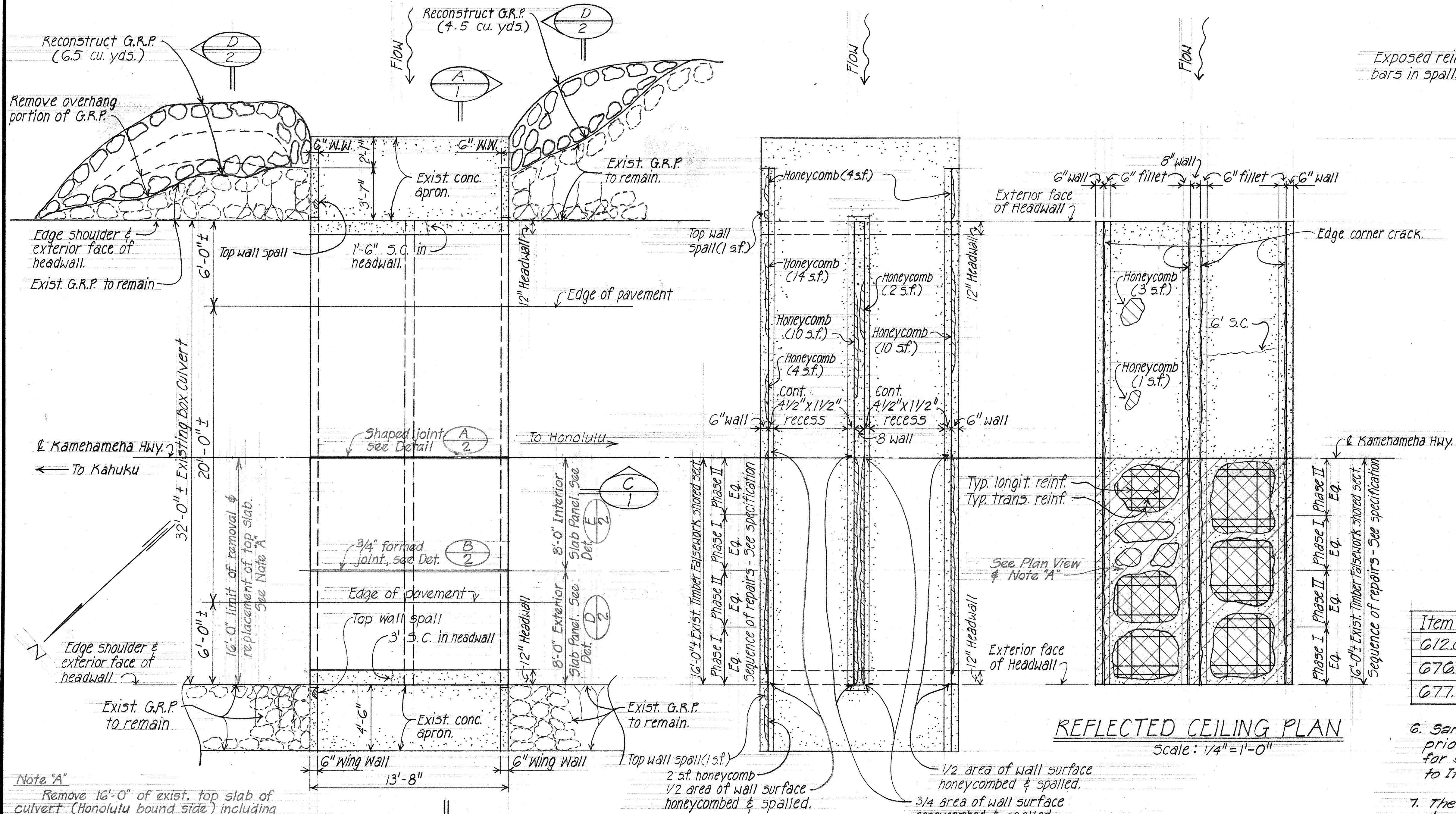
1. Removal of all temporary timber shorings and bracings in the existing culvert shall be in accordance with the sequence of repairs in the Specifications. This item shall be incidental, and will not be paid for separately.
2. In general, refer to special provisions for method of repairs.
3. Remove sections of spalled, deteriorated unsound areas to sound concrete. Exact locations and limits of concrete repair to be determined in the field by the Engineer.
4. In lieu of lap splicing, welded splices may be permitted with the written approval of the Engineer.
5. Reinforcing bars, wire mesh, and hooked expansion bolts will not be paid for separately and shall be incidental to Item No. 676.06.

(Notes continued below)

Item No.	Description	Est. Quantities
612.05	Grouted rubble paving	11 cu. yds.
676.06	Repairs of Spalls & Honeycomb Conc.	422 sq. ft.
677.05	Sealing Cracks in Concrete	140 Linear Feet

6. Sand and debris shall be removed from the box culvert prior to commencing repairs. This work will not be paid for separately but shall be considered to be incidental to Item No. 676.06.

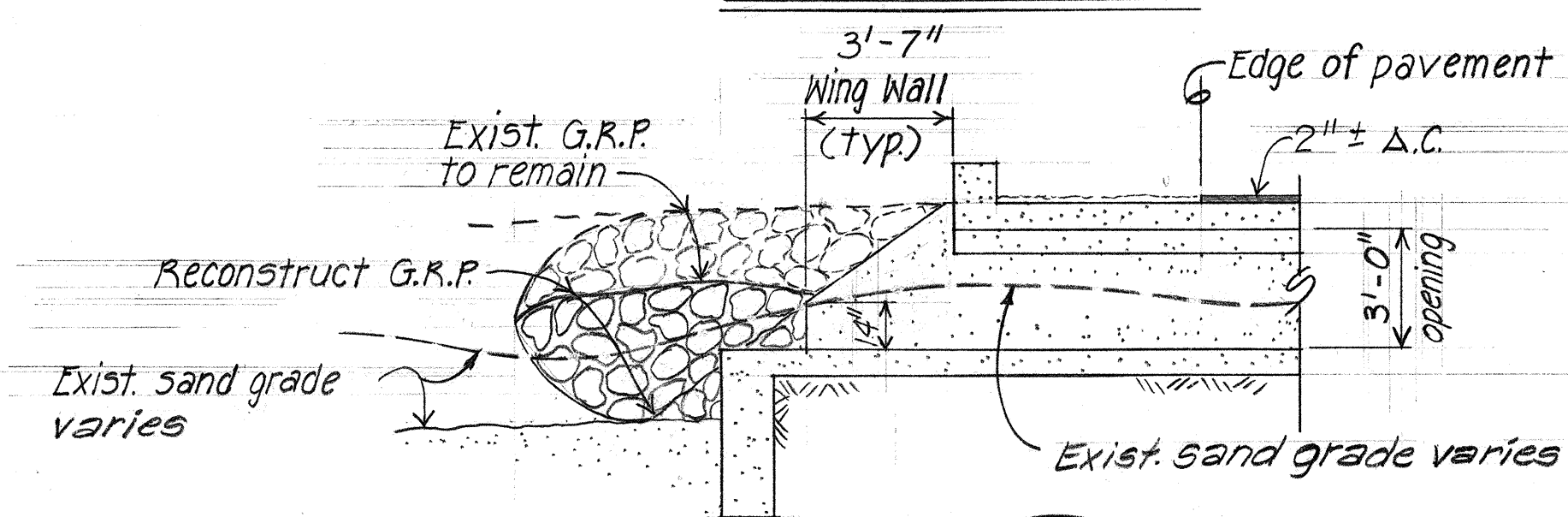
7. The Contractor shall only excavate and remove sand as deemed necessary to perform GRP work. The Engineer may restrict the Contractor's operations to prevent excessive excavation and sand removal.



Note "A"
Remove 16'-0" of exist. top slab of culvert (Honolulu bound side) including 6" fillets & replace with 8"x8'-0"x13'-8" precast concrete panels.

PACIFIC OCEAN

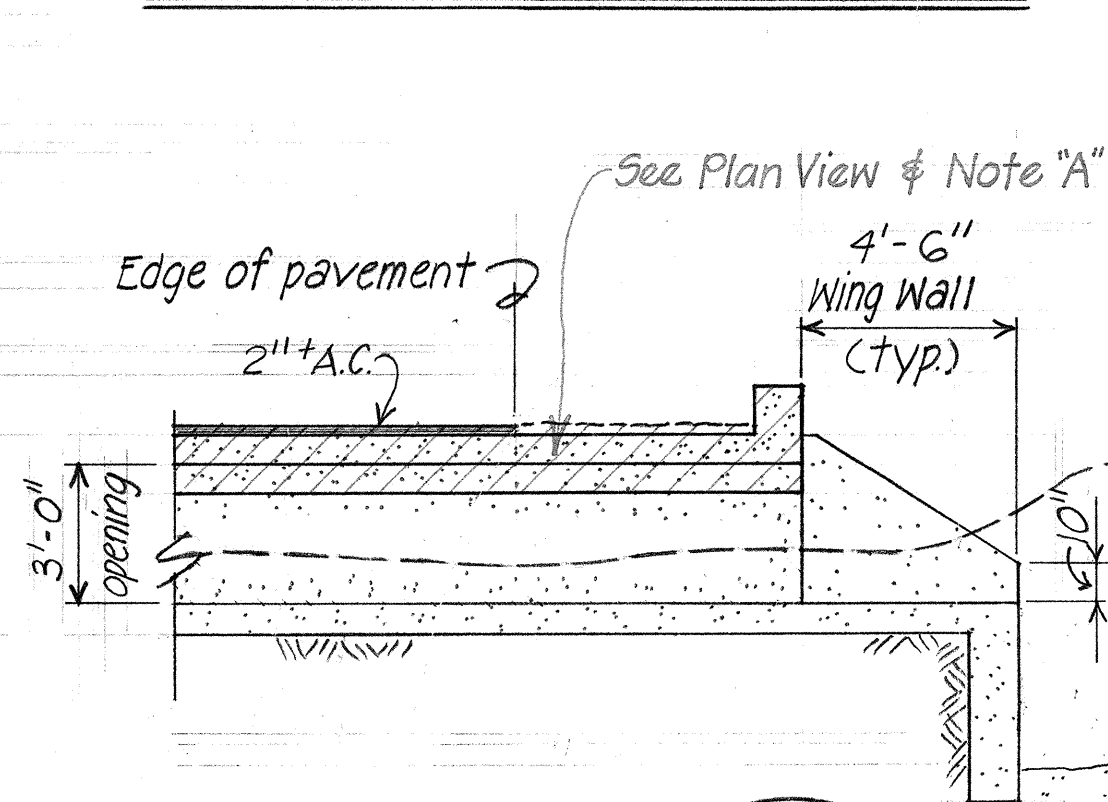
PLAN VIEW Scale: 1/4" = 1'-0"



SECTION A-A

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

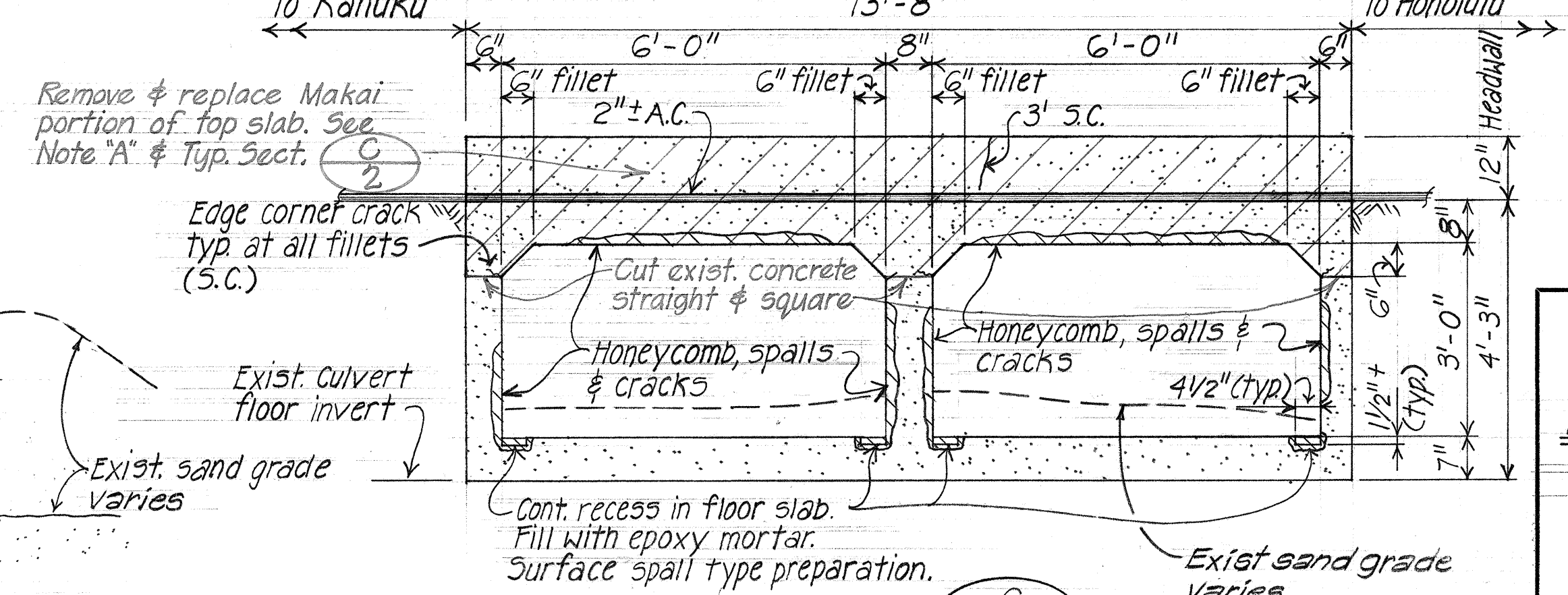
CULVERT FLOOR PLAN Scale: 1/4" = 1'-0"



SECTION B-B

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

TYPICAL SECTION Scale: 1/2" = 1'-0"



TYPICAL SECTION

Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REPAIR TWIN 6'x3' BOX CULVERT
PLANS, SECTIONS & DETAILS

Proj. No. 83B-02-77M
Scale: As noted Date: May 1976

SHEET NO. 1 OF 2 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
NO.	