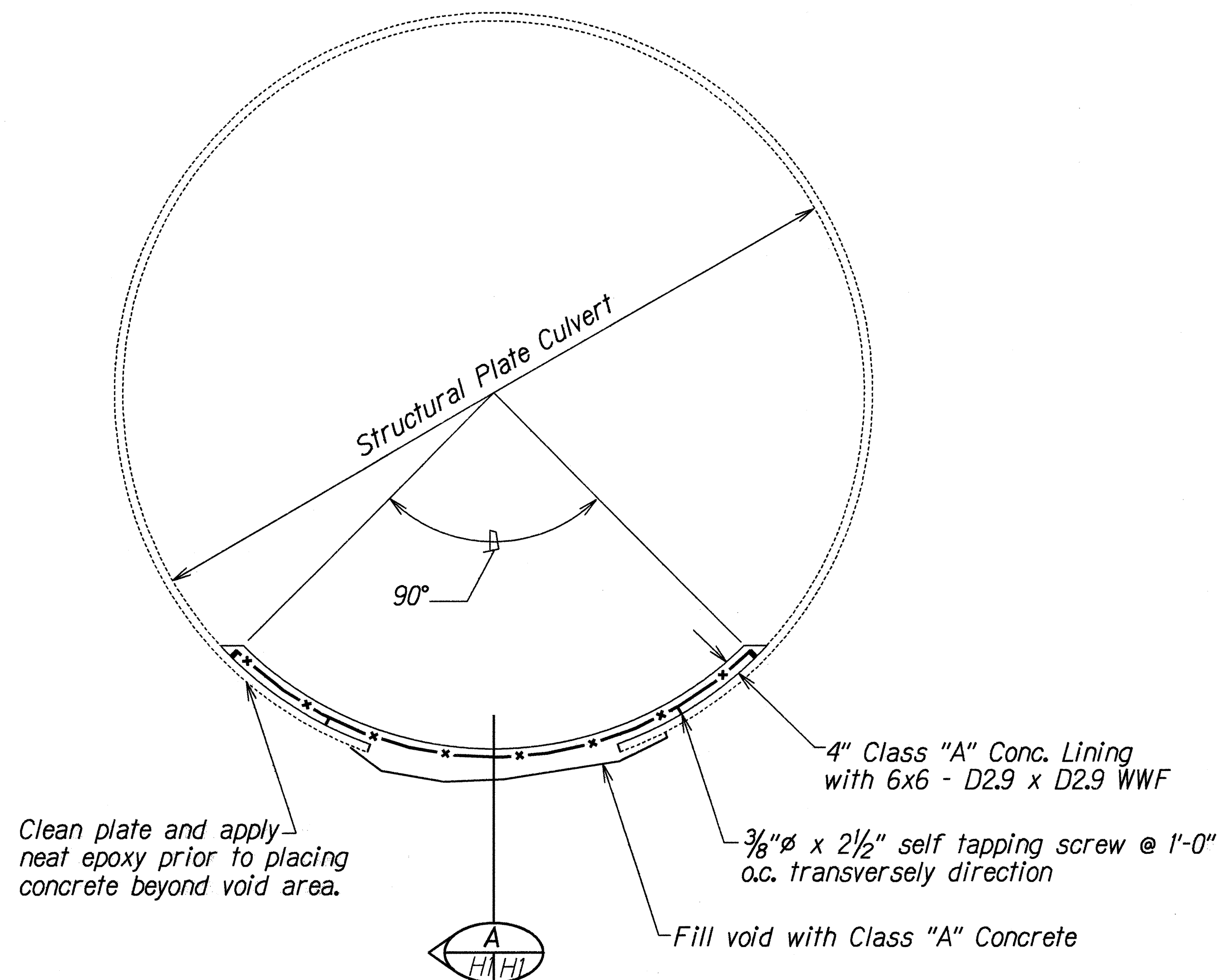
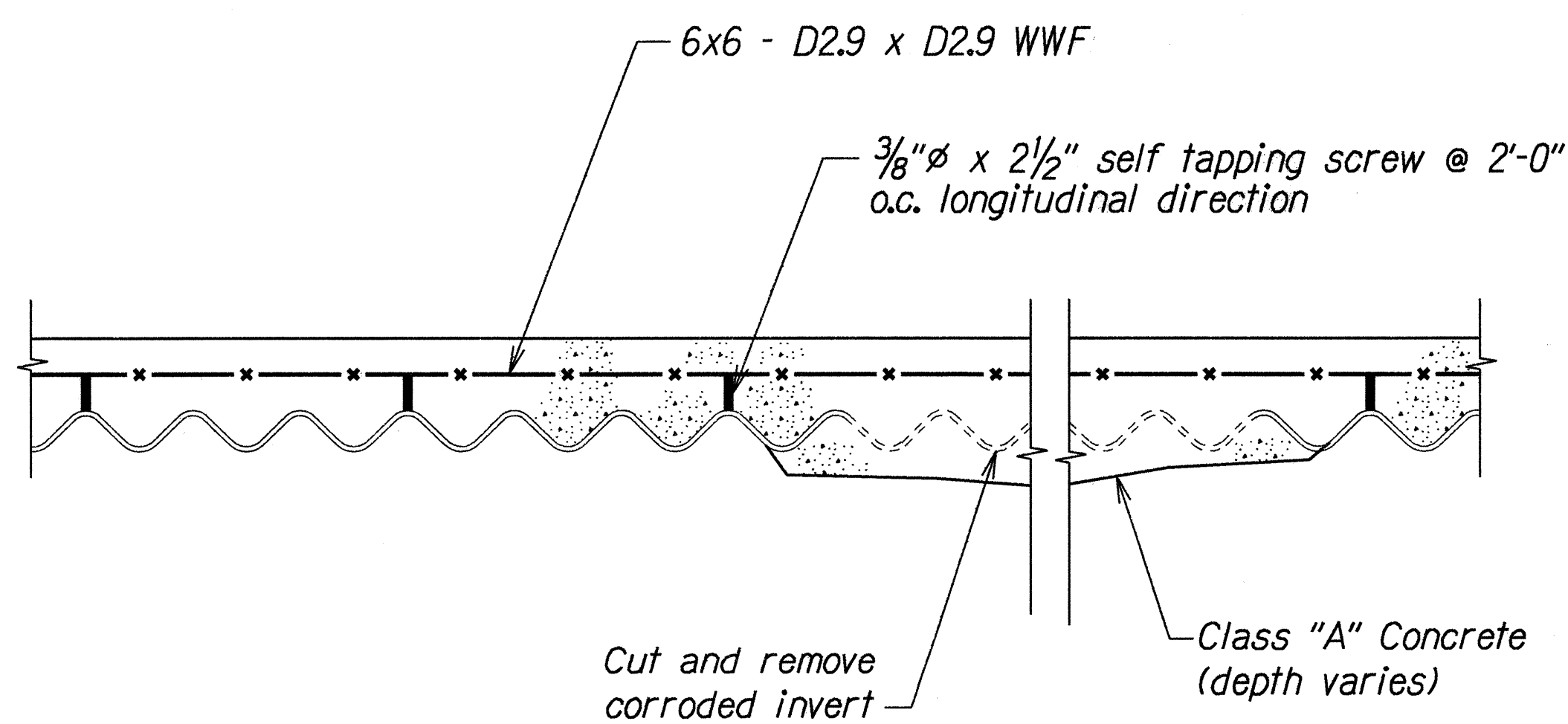


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	340C-01-96M	1996	5	6



SECTION IN VOID AREA

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



SECTION A

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

DETAILS OF CONCRET CULVERT LINING

GENERAL NOTES:

1. The concrete placed in the culvert shall be allowed to cure for a minimum of 48 hours before water is allowed to flow on the invert.
2. The culvert surface to be in contact with the concrete shall be clean and dry to the satisfaction of the engineer. Badly corroded sections shall be cut and removed, provided the structural integrity of the culvert is not compromised. Epoxy shall be neatly applied to the clean metal surface prior to placing concrete.
3. The welded wire fabric steel reinforcement shall be placed two inches above the crest of corrugations by welding to self tapping screws. The screws shall be drilled and tapped to the sectional plate culvert at two feet on centers longitudinally and 1'-0" transversely. If lapping of the welded wire fabric is necessary, it shall be lapped a minimum of six inches.
4. The welded wire fabric, screws and epoxy shall not be paid for separately but shall be considered incidental to concrete.
5. The concrete culvert lining shall be scored 3/4-inch deep laterally along the crest of corrugations, 20 feet on-center.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	Dec. 1995
DESIGNED BY	CHECKED BY	Dec. 1995
APPROVED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

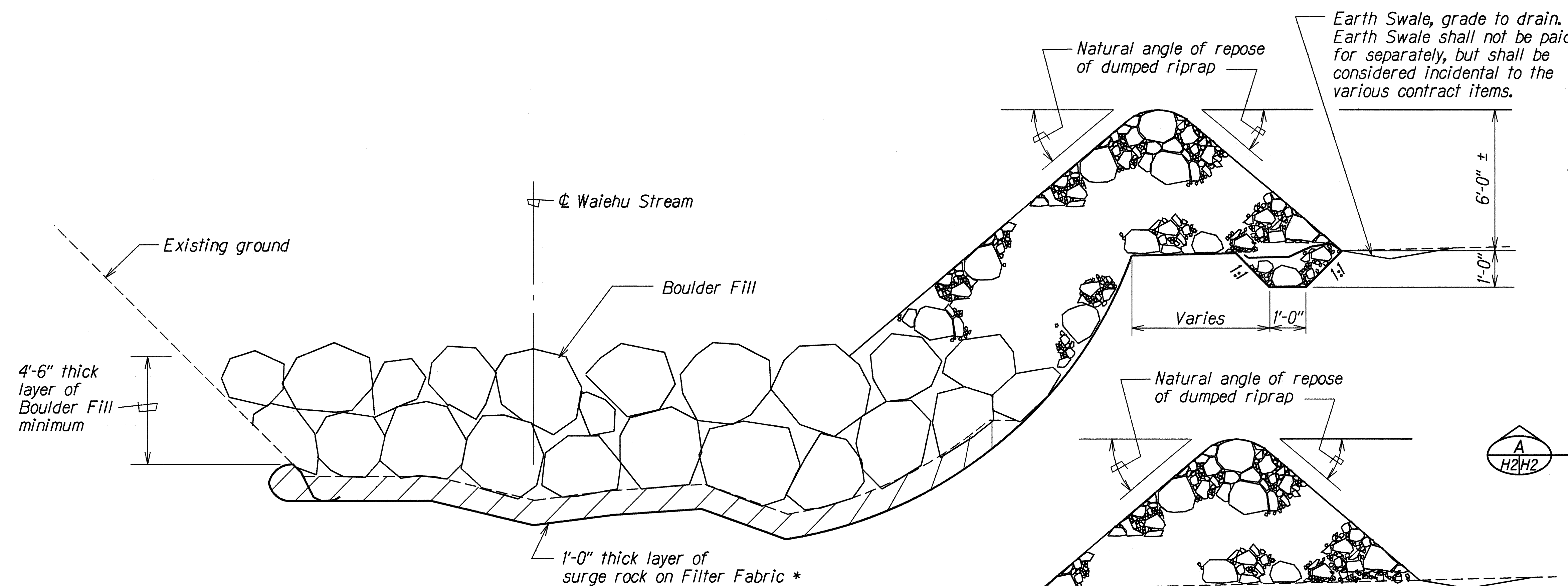
DRAINAGE DETAILS

KAHEKILI HIGHWAY
Waiehu Twin Culvert Repair
Project No. 340C-01-96M

Scale: As Shown Date: Dec, 1995

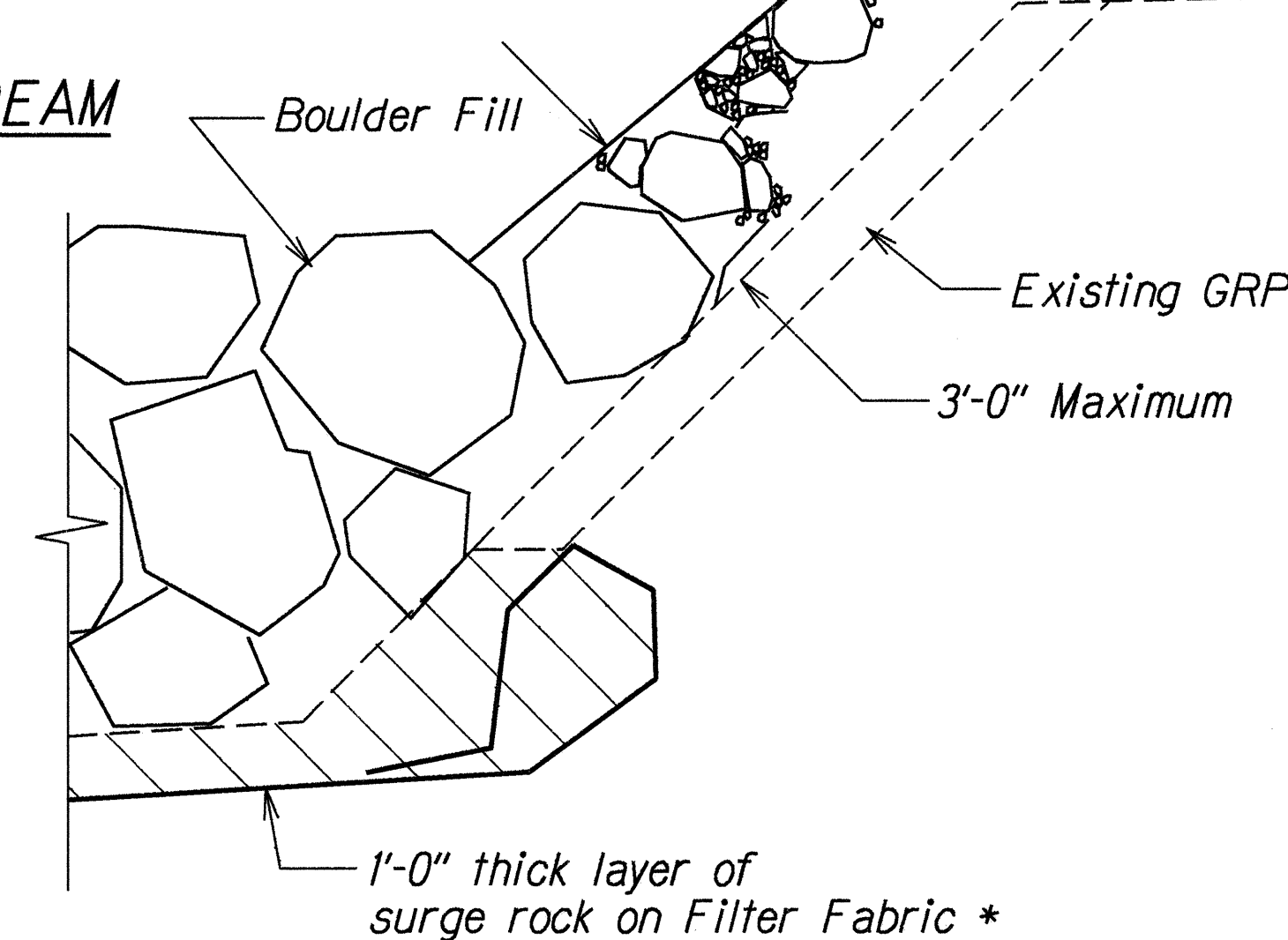
SHEET No. **HI** OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	340C-01-96M	1996	6	6

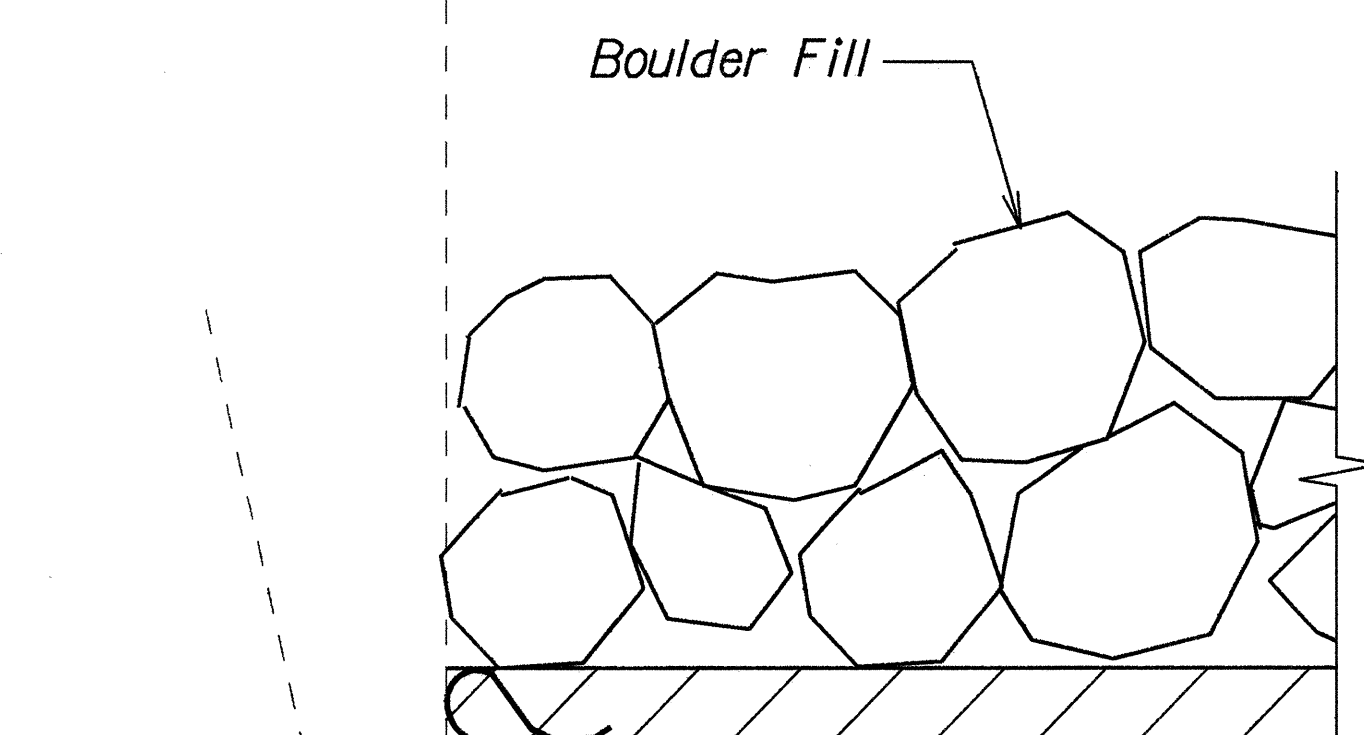


CROSS SECTIONAL VIEW OF WAIEHU STREAM

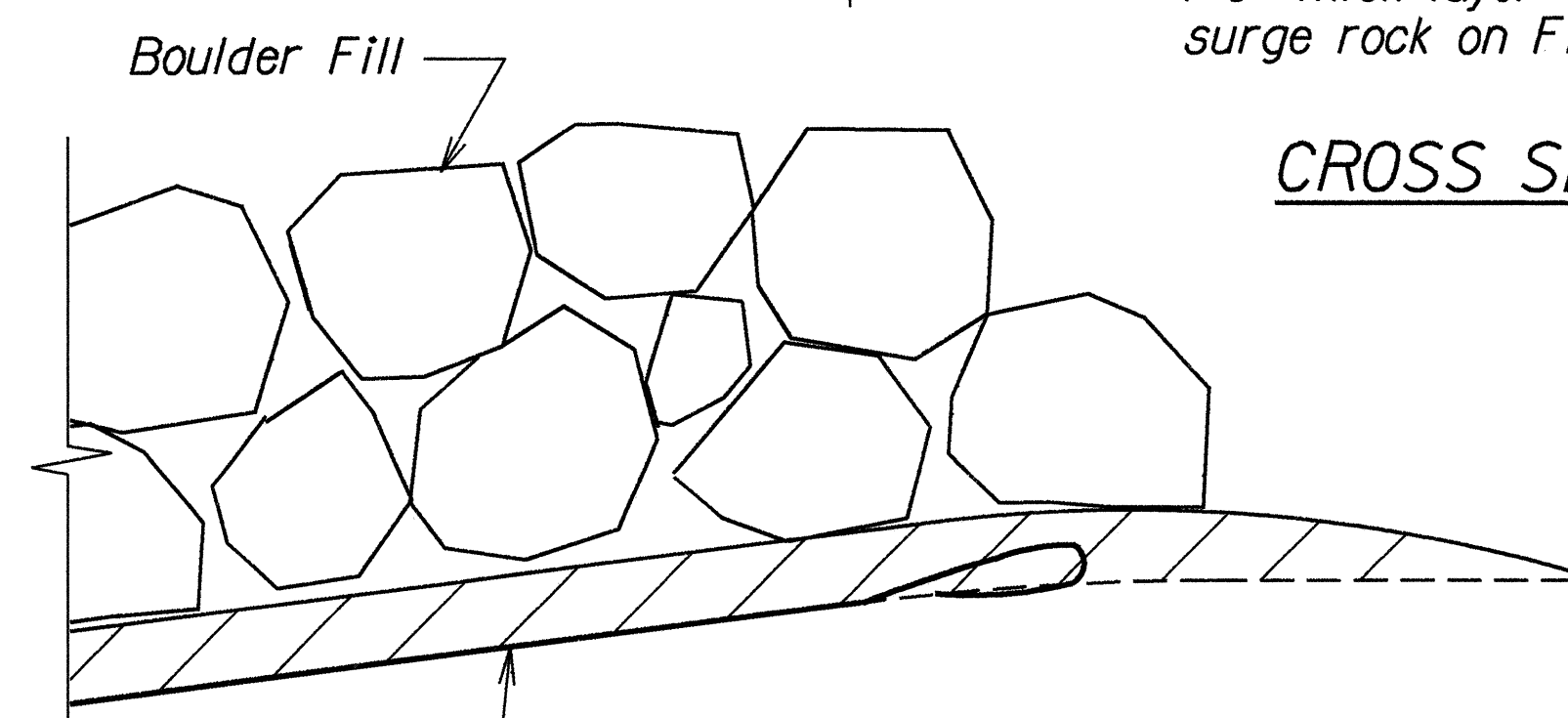
BOULDER FILL DETAILS



Existing Conc. Apron



SECTION AT BEGINNING

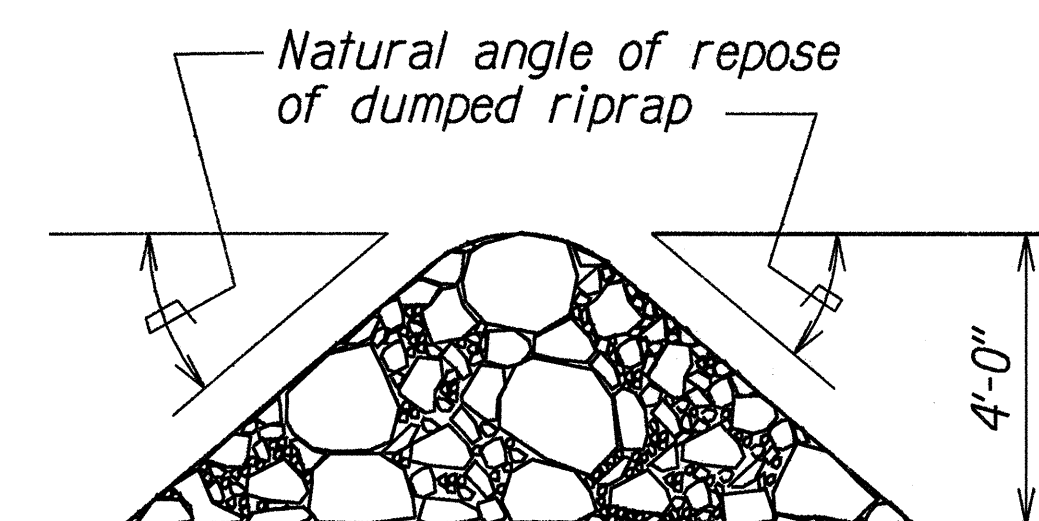


SECTION AT END

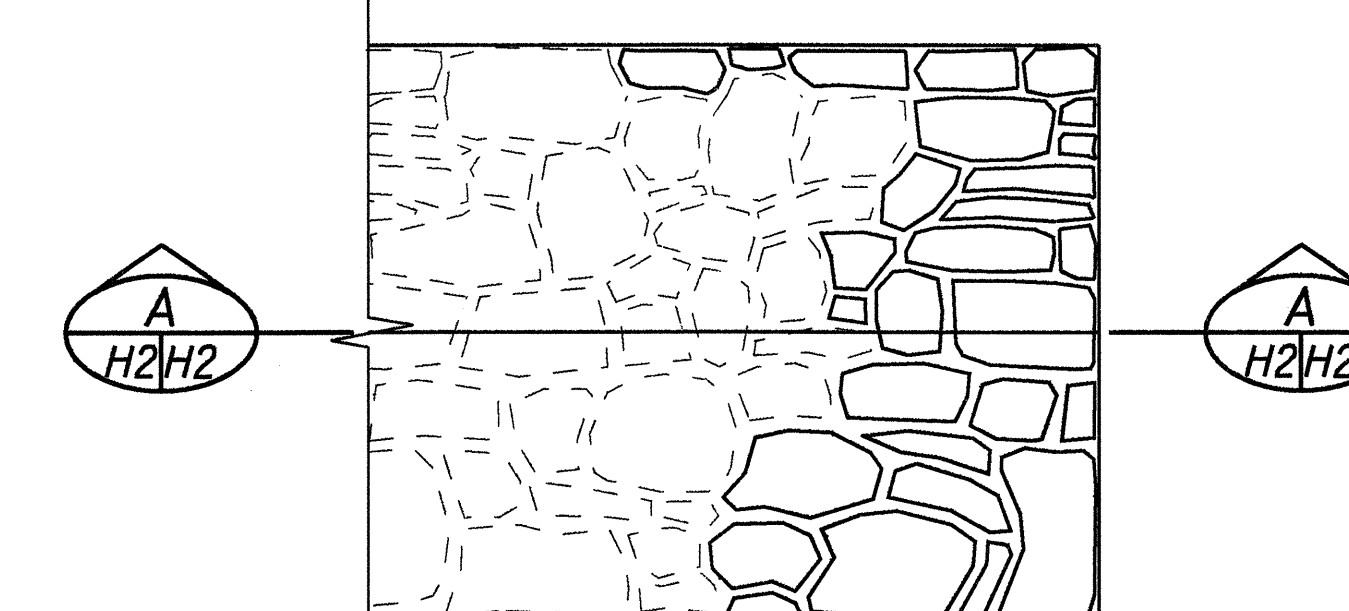
LONGITUDINAL VIEW OF WAIEHU STREAM

CROSS SECTIONAL VIEW OVER EXISTING GRP

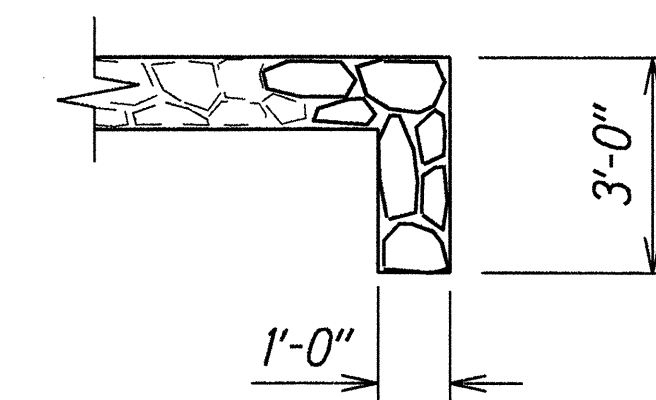
* Note:
Filter Fabric shall not be paid for separately, but shall be considered incidental to surge rock.



CHECK DAM DETAIL



PLAN



SECTION

GRP REPAIR DETAIL

ORIGINAL PLAN	DATE	5/20/96
SURVEY PLOTTED BY		
DRAWN BY	L. Coker	A. Namura
NOTED BY	R. Salgado	
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KAHEKILI HIGHWAY
Waiehu Twin Culvert Repair
Project No. 340C-01-96M

Scale: 3/8"=1'-0" Date: May, 1996

SHEET No. H2 OF 2 SHEETS