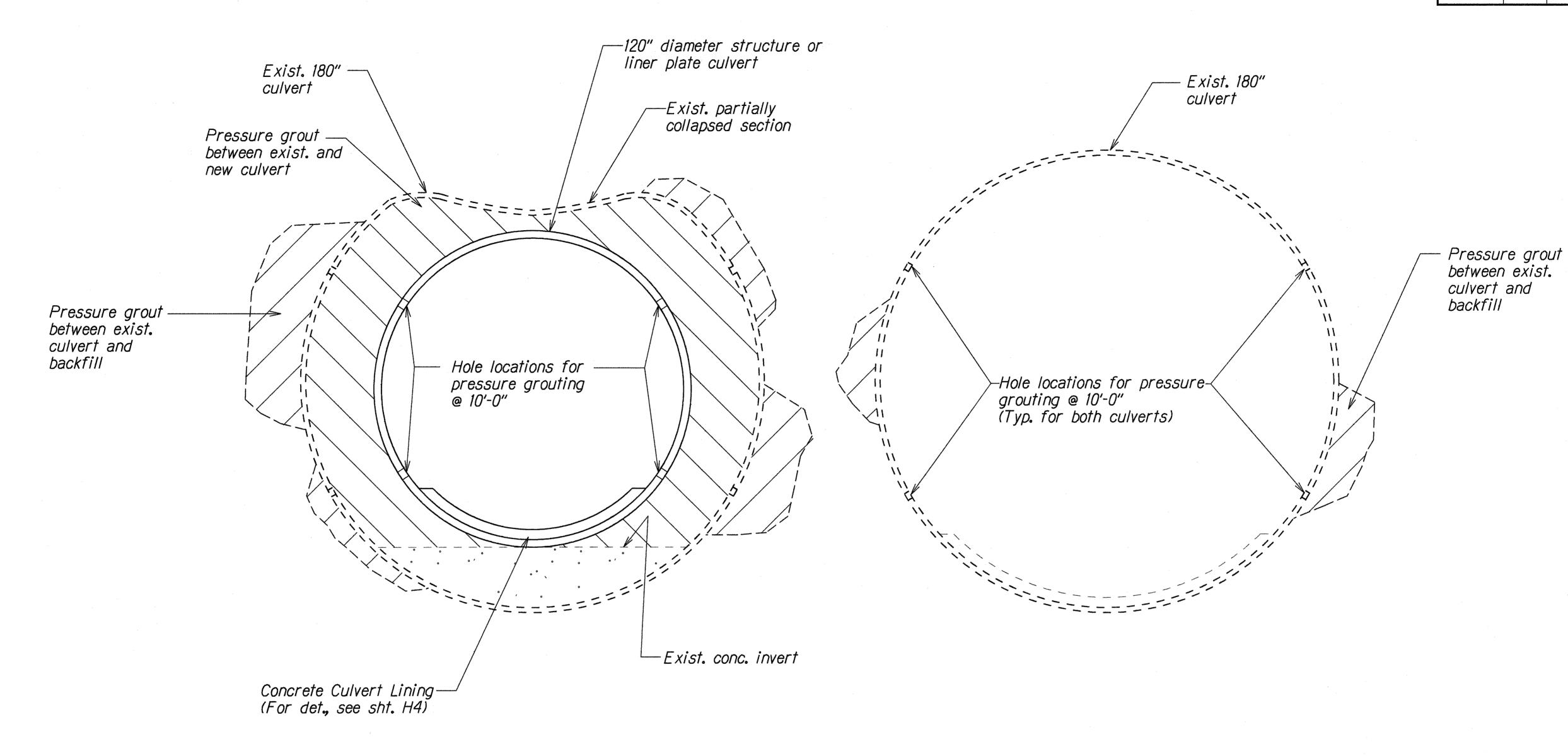
	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	240A-01-00	2001	8	9



TYPICAL CULVERT SECTION LOOKING DOWNSTREAM

Note:

- 1. The Contractor's attention is directed to Subsection 657.03(a)
 Pressure Grout Between Existing Culvert and Backfill and 657.03(b) Pressure
 Grout Between the Existing and New Structure Plate Culvert.
- 2. The Contractor's attention is directed to Subsection 603.03 Construction Requirements.
- 3. The Contractor shall exercise caution when pressure grouting between existing culvert and backfill to prevent further damage to the culvert.

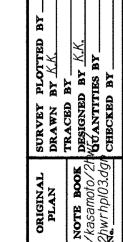
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAIL

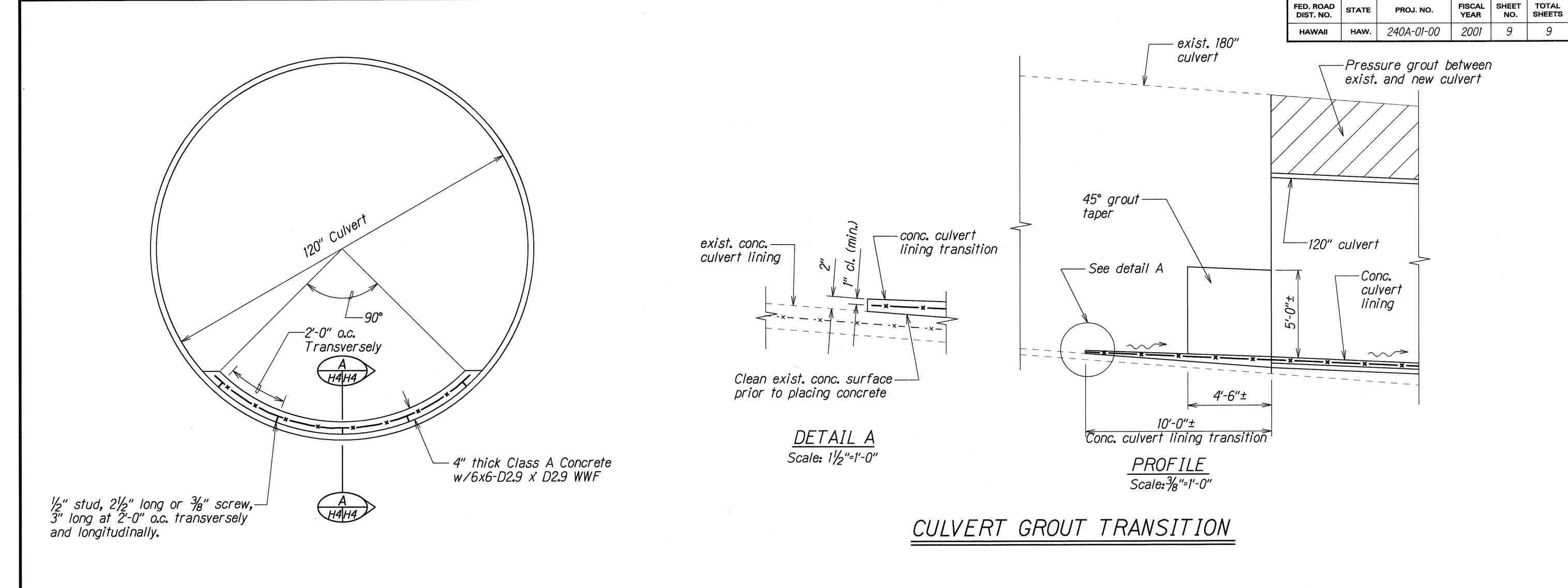
HONOKAA-WAIPIO ROAD DRAINAGE IMPROVEMENTS AT KAPULENA STREAM CULVERT Project No. 240A-01-00

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

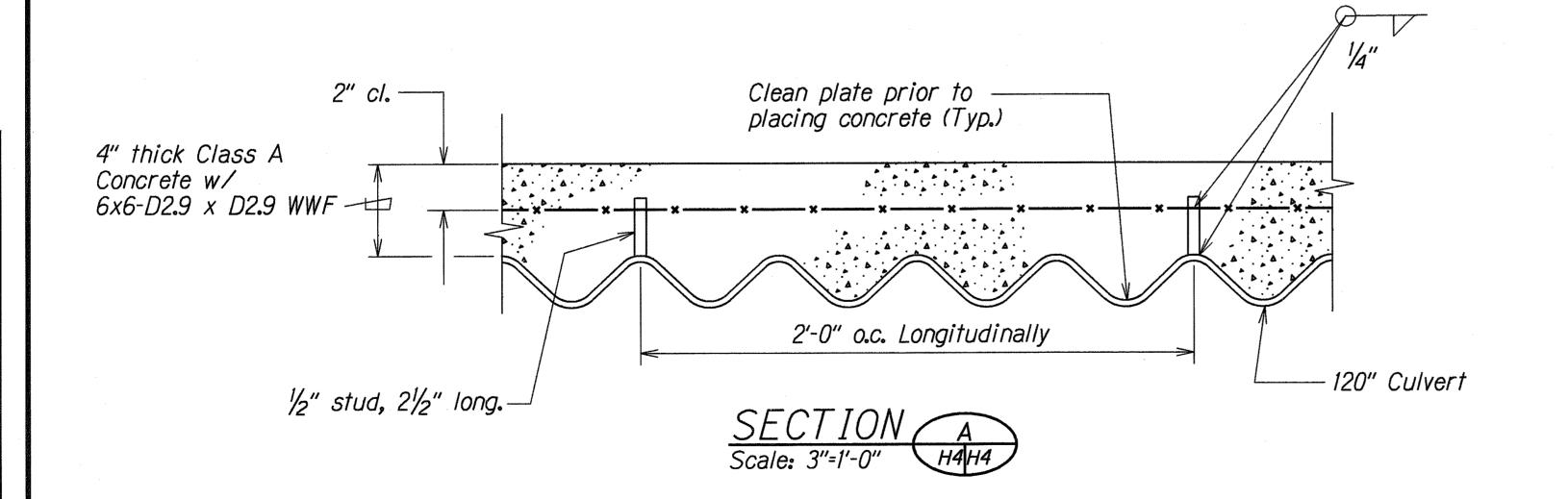
Date: Jan, 2001



SHEET No. H3 OF 4 SHEETS



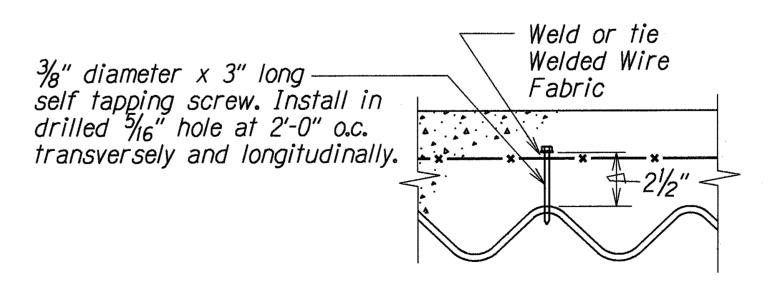
TYPICAL SECTION Scale: 3/4"=1'-0"



CONCRETE CULVERT LINING DETAIL

Notes:

- 1. The welded wire fabric steel reinforcement shall be placed two inches above the crest of corrugations by welding to studs. The studs shall be welded to the structure plate culvert at two feet on center longitudinally and transversely. If lapping of the welded wire fabric is necessary, it shall be lapped a minimum of 6 inches.
- 2. The concrete culvert lining shall be scored $\frac{1}{8}$ " wide, 1" deep laterally 20 feet on-center. If the Contractor options to sawcut, sawcutting shall be done between 4 to 8 hours after concrete has been placed.



ALTERNATE SCREW ATTACHMENT Scale: 3"=1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION DRAINAGE DETAIL HONOKAA-WAIPIO ROAD DRAINAGE IMPROVEMENTS AT KAPULENA STREAM CULVERT Project No. 240A-01-00

Scale: As shown

Date: Jan, 2001 SHEET No. H4 OF 4 SHEETS

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