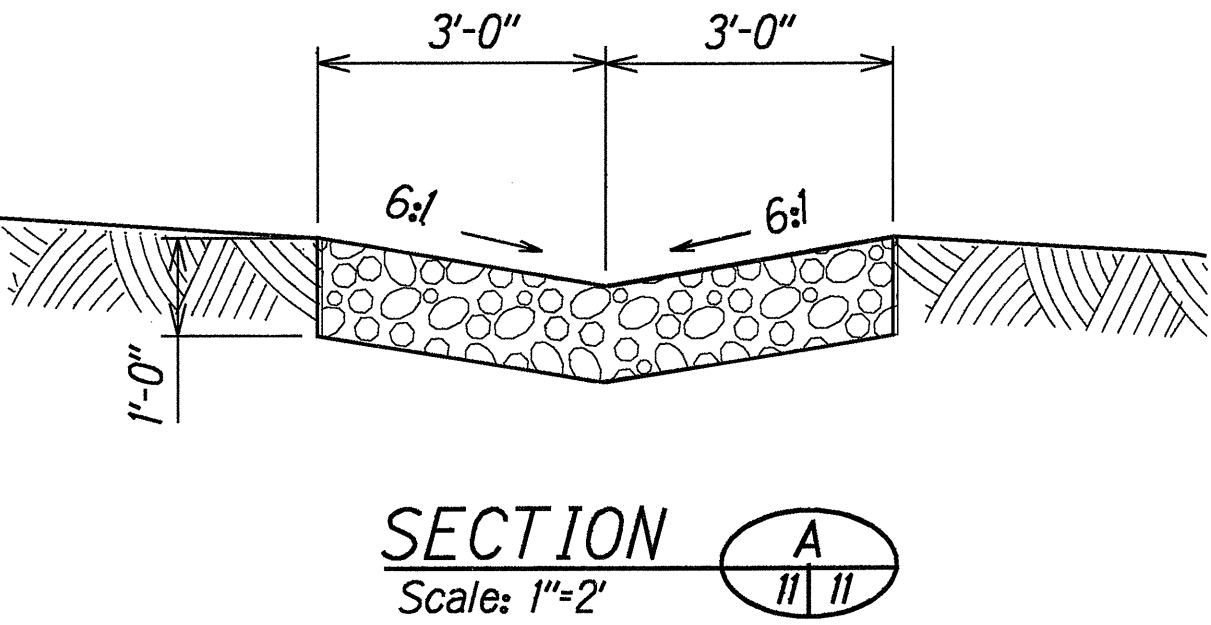
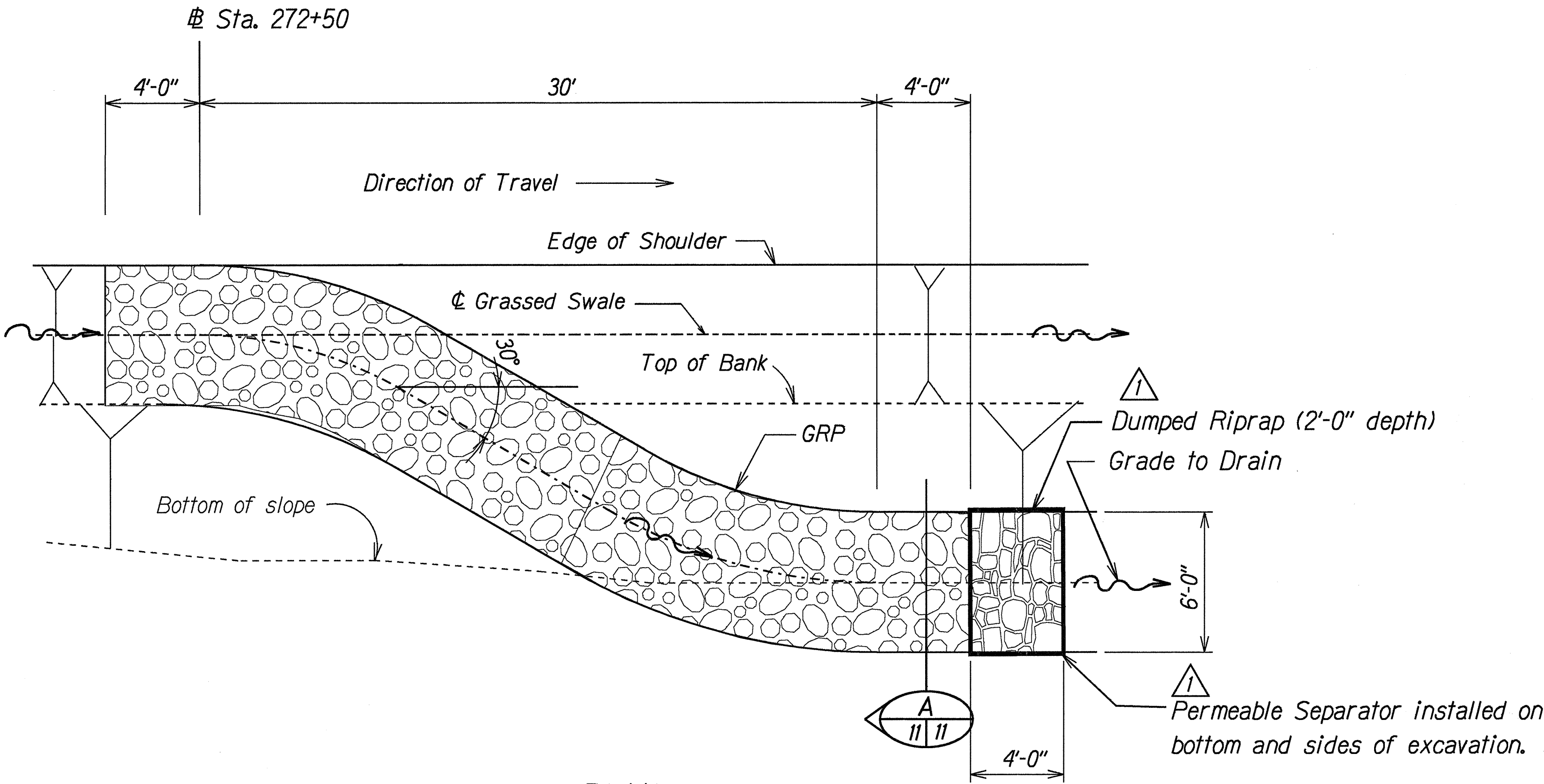


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-98	1999	ADD.11	21



PLAN
Scale: 1"=4'
DETAILS OF GRP SWALE AT STA. 272+50 (o/s Rt.)

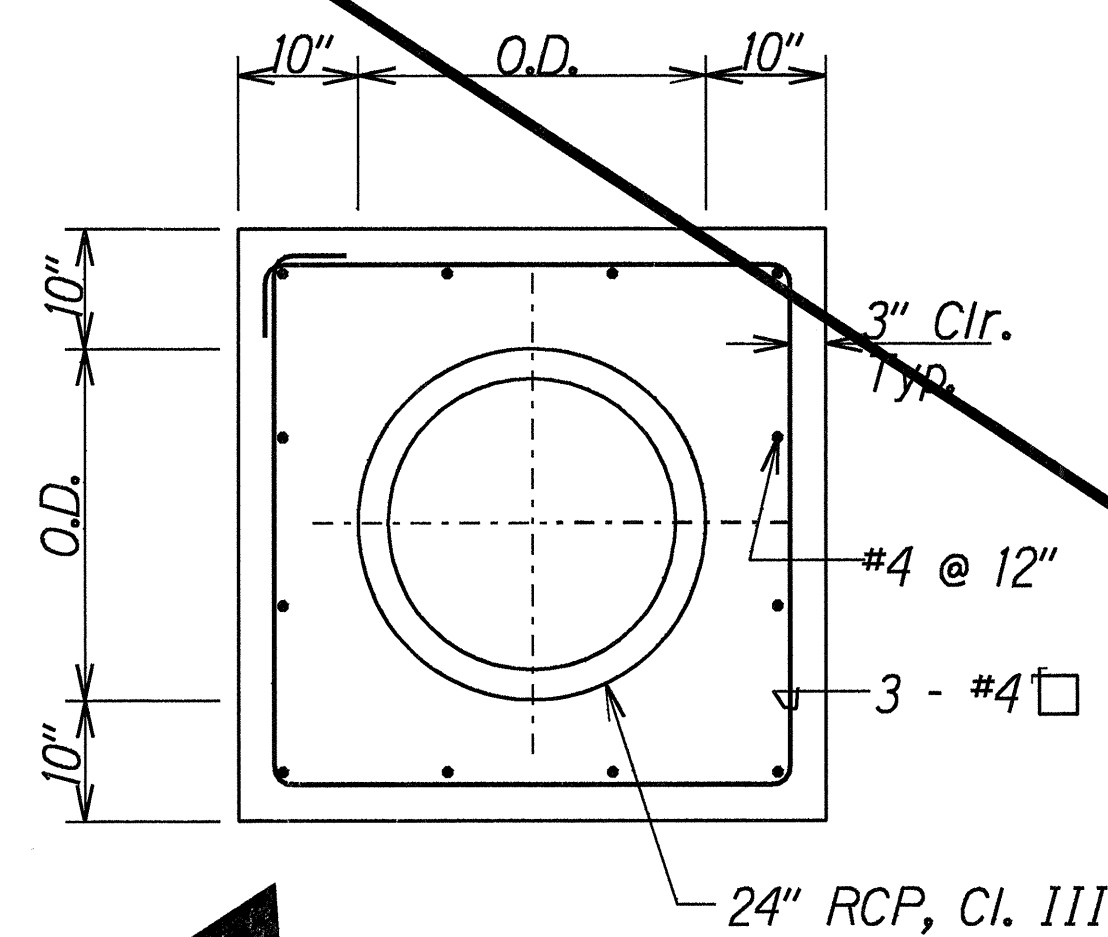
NOTES

1. Excavation for Dumped Riprap and installation of permeable separator shall not be paid for separately, but shall be considered incidental to Item No. 656.0100, Dumped Riprap.

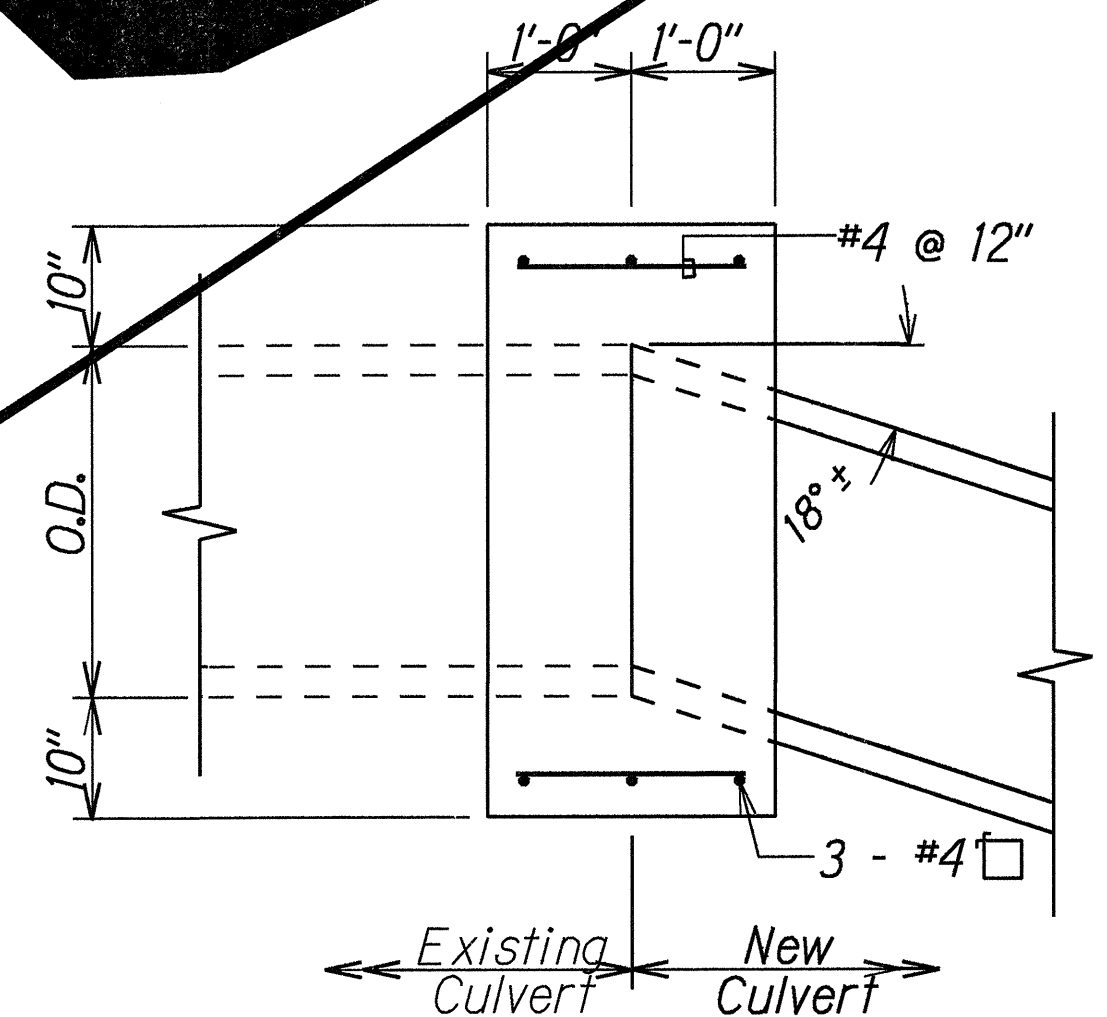
SURVEY PLOTTED BY	DATE
DRAWN BY	4-99
CHECKED BY	
DESIGNED BY	F. Reyes
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
DATE	4/99
BY	N. S. S. S. S. S.

1	5-25-99	Added Riprap Detail. Deleted Profile, 24" Culvert Extension. Deleted Trench Detail for 24" RCP. Revised Notes.
2		
DATE		REVISION
<div>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</div> <div><u>DRAINAGE DETAILS</u></div> <div>KAUMUALII HIGHWAY</div> <div><u>ACCELERATION LANE AT MALUHIA ROAD</u></div> <div><u>Project No. 50D-01-98</u></div> <div>Scale: Varies</div> <div>Date: April 1 1999</div> <div>SHEET No. 1 OF 2 SHEETS</div>		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50D-01-98	1999	ADD.12	21



ELEVATION



SECTION

CAST-IN-PLACE REINFORCED CONCRETE COLLAR

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

NOTES:

1. All Reinforcing Steel to be used in the work shall not be paid for separately, but shall be considered incidental to Item No. 503.0100, Concrete for Drainage Structures. Reinforcing Steel shall conform to requirements of ASTM 615- Grade 60.
2. All Concrete used in the work shall be Class A. Angle Cuts for 24" RCP at joints shall be made in the field upon determination of pipe slope and upon approval from the Engineer.
3. All exposed edges of Drainage Structures shall be chamfered one inch.
4. See Plan Sheet No. 11 for additional Concrete Collar details.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4-1-99
6/24/02	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

5-25-99	This Sheet is Omitted from the Original Contract Plans.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRAINAGE DETAILS KAUMUALII HIGHWAY ACCELERATION LANE AT MALUHIA ROAD Project No. 50D-01-98 Scale: As Shown Date: April 1, 1999 SHEET No. 2 OF 2 SHEETS	