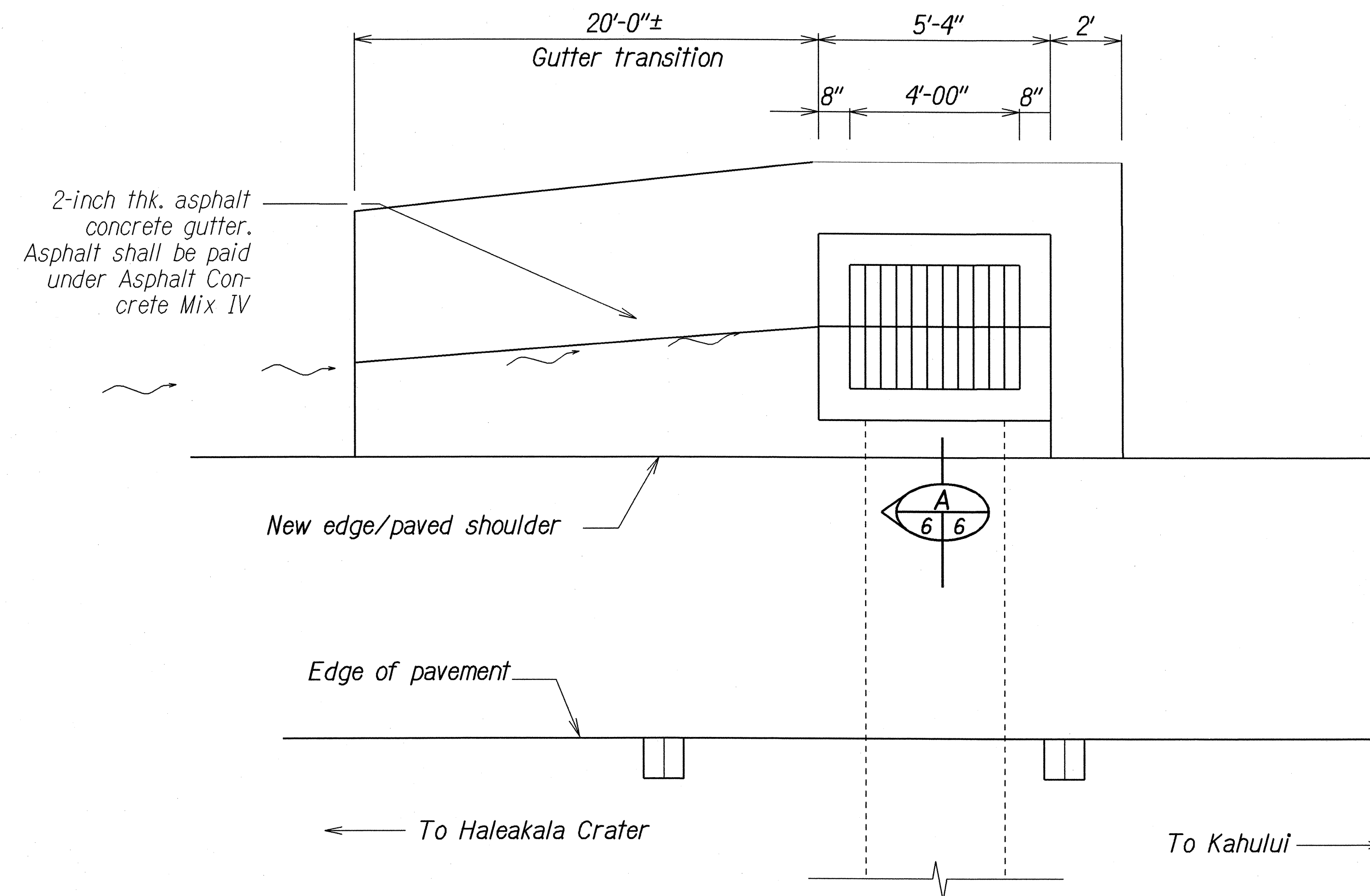
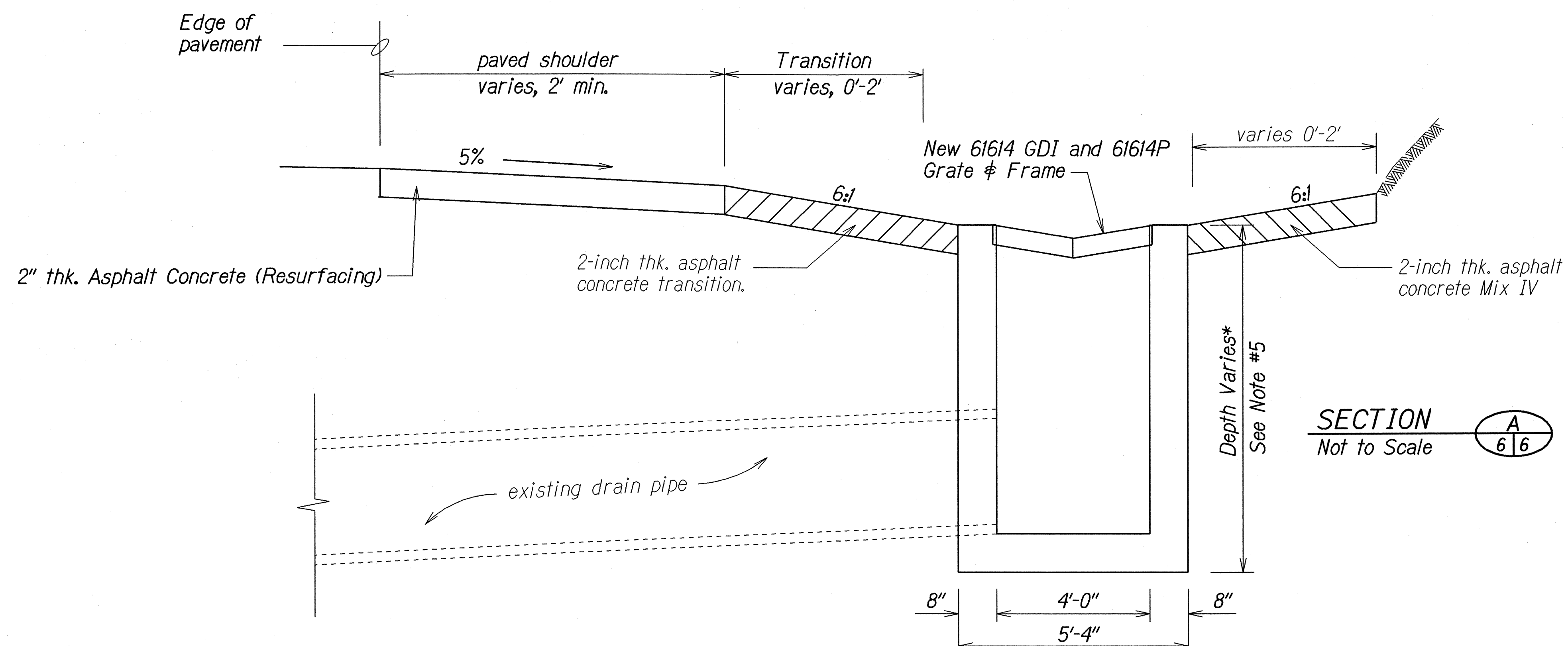


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-04M	2004	29	88



DETAIL OF INLET STRUCTURE
Not To Scale



GENERAL DRAINAGE NOTES:

1. Contractor shall verify inverts of existing inlet structures.
2. Drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to various contract items.
3. The Contractor shall clean existing culverts after installing the Grated Drop Inlet. This item shall not be paid for separately but shall be considered incidental to various contract items.
4. Asphalt concrete gutter shall not be paid for separately but shall be considered incidental to Asphalt Concrete Mix IV.
5. Depth of New GDI shown are approximate. The Contractor shall verify field conditions prior to fabrication of GDI.
6. Demolition and removal of existing drainage structure shall not be paid for separately but shall be considered incidental to structure excavation for drainage system.

DRAINAGE SUMMARY			
Item No.		206.2020	604.2330
Unit Used		Cu. Yd.	Each
Structure	Baseline Station	Structure Excavation for Drainage System	61614P Grated Drop Inlet, 2.00 Ft. to 2.99 Ft.
61614P GDI	572+76 Rt.	5	1
61614P GDI	763+00 Rt.	5	1
61614P GDI	798+50 Rt.	5	1
61614P GDI	841+50 Rt.	5	1
61614P GDI	856+00 Rt.	5	1
TOTAL		25	5

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <i>lm</i>	<i>10/03</i>
<i>may</i>	TRACED BY _____	•
<i>ghaimidigan</i>	DESIGNED BY <i>lm</i>	•
<i>N</i>	QUANTITIES BY _____	•
	CHECKED BY _____	•

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

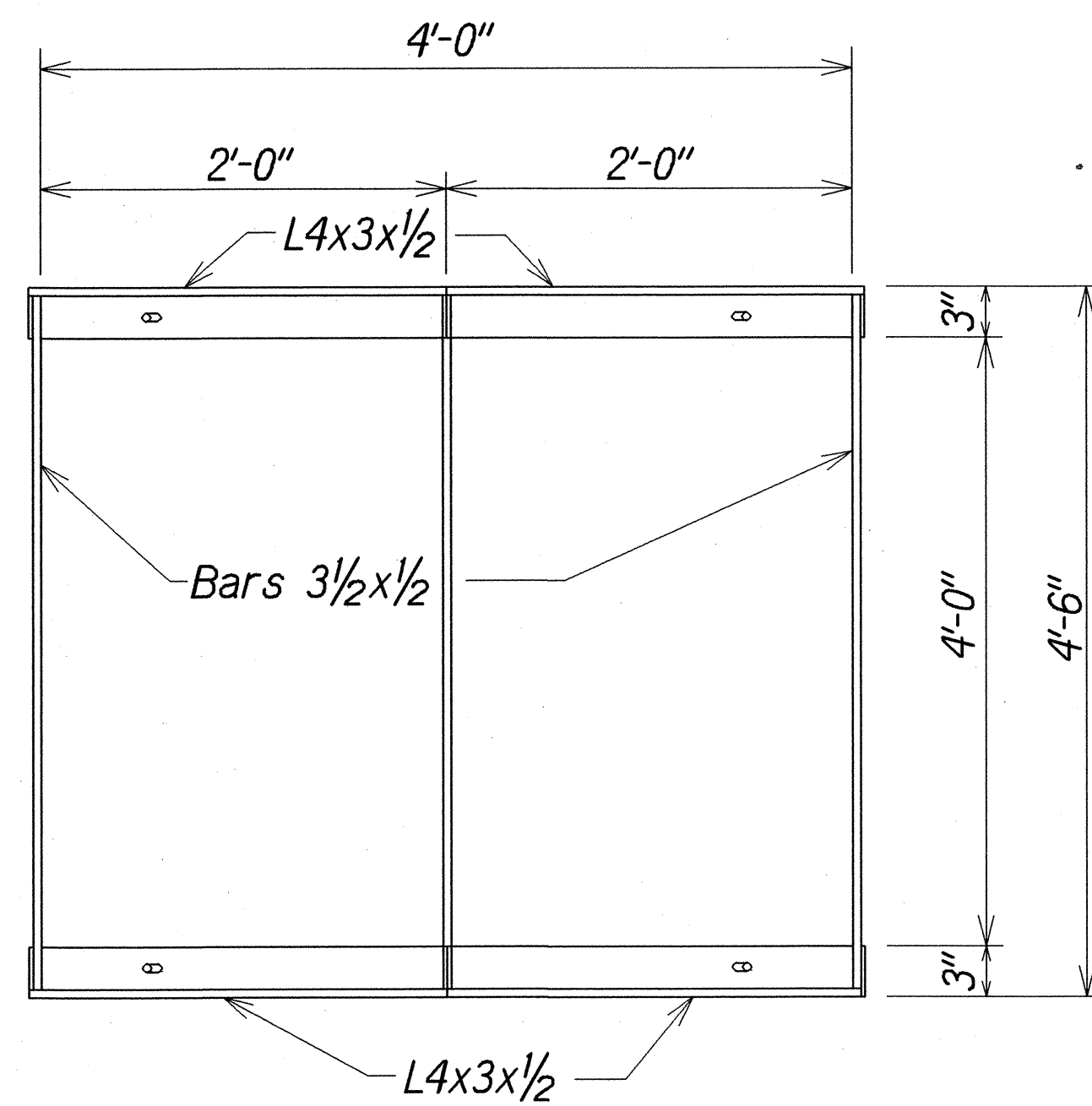
DRAINAGE DETAILS

HALEAKALA CRATER ROAD RESURFACING
Kekaulike Avenue To Haleakala National Park
Project No. 378A-01-04M

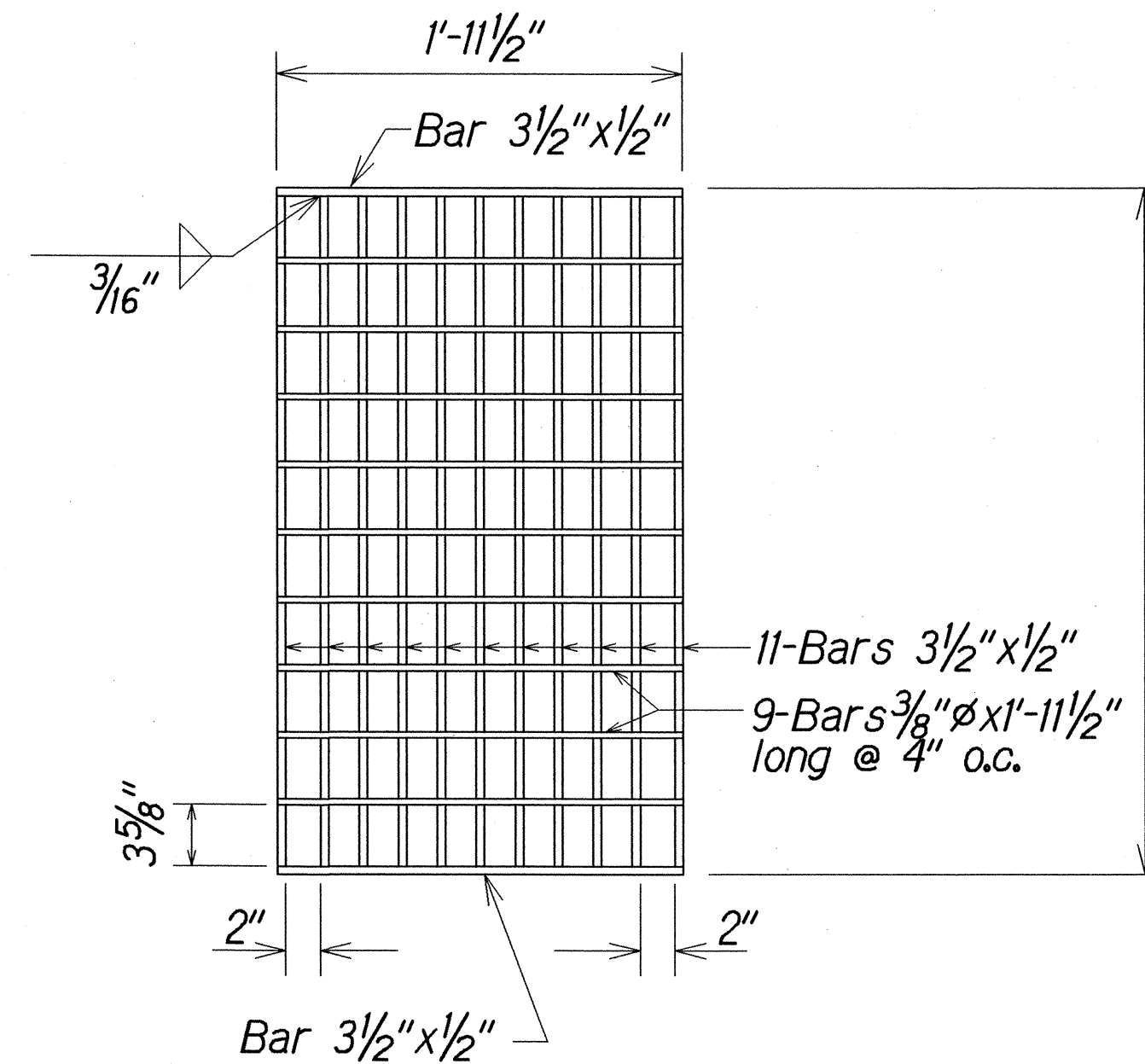
Scale: As Shown Date: October, 2003

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-04M	2004	30	88

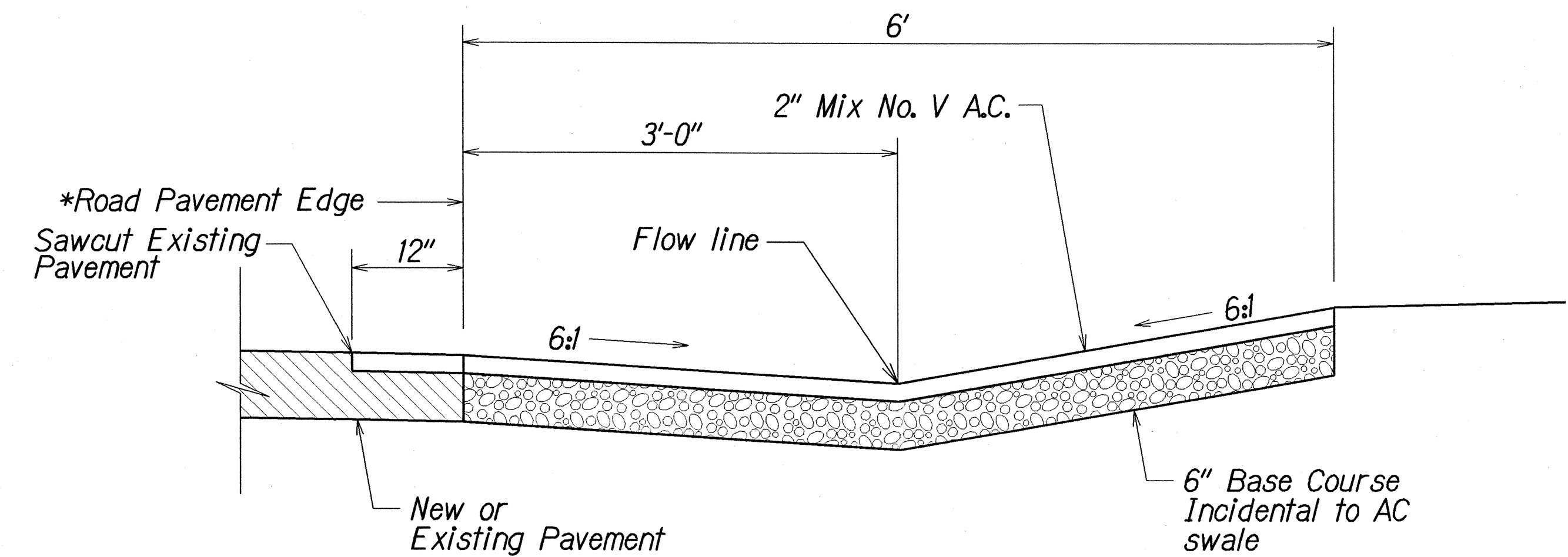


PLAN



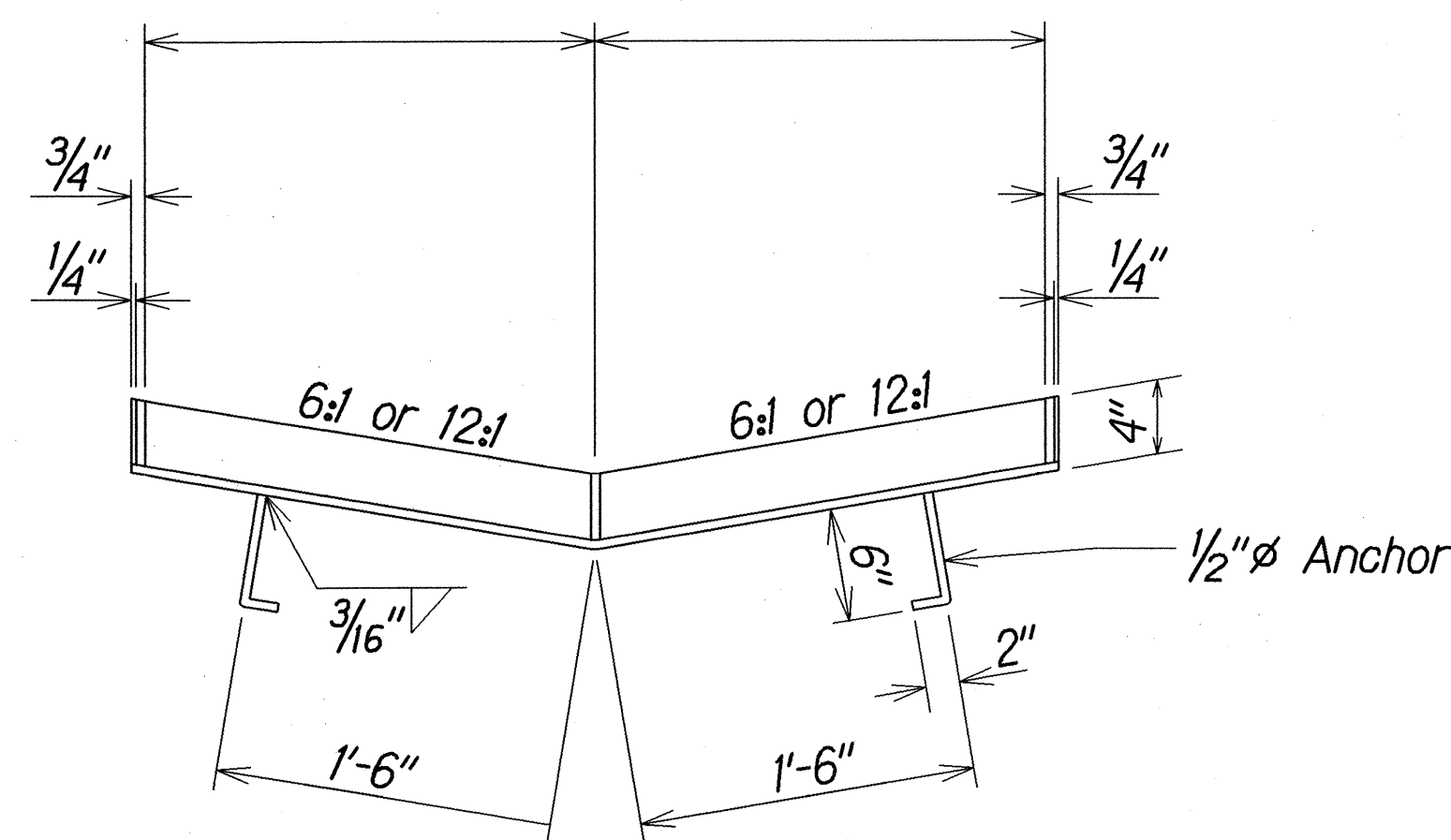
PLAN

NOTE:
Where existing road pavement edge is more than 3' from flow line, pave shoulder between swale and edge of roadway. Payment shall be made under AC Mix IV.



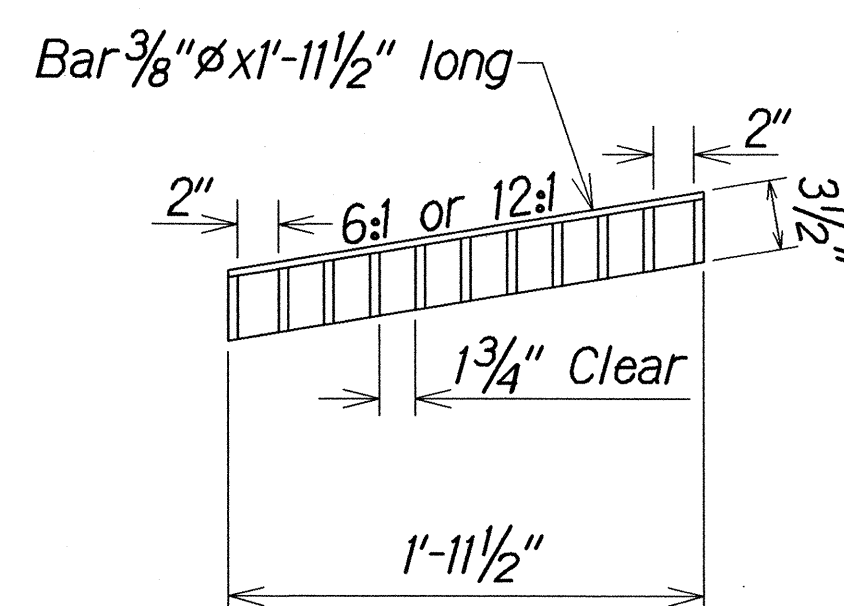
DETAIL 61616 AC SWALE

Not To Scale



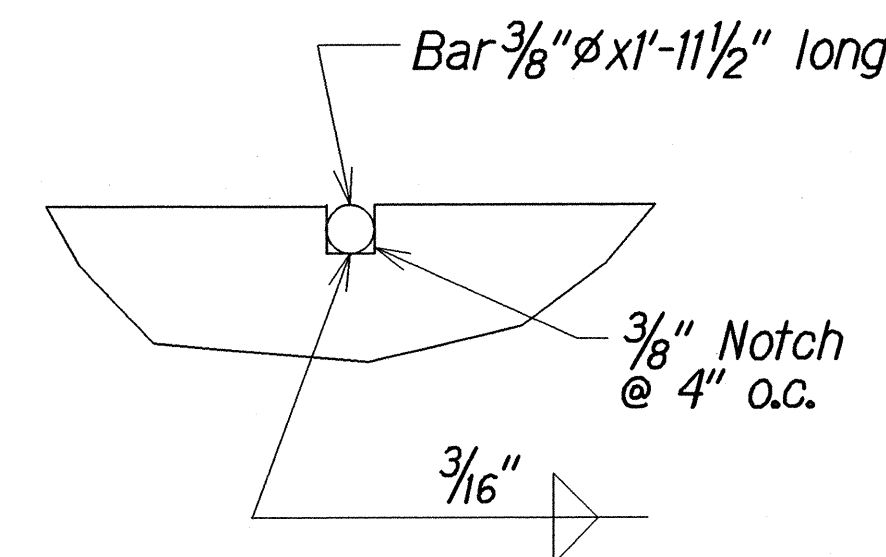
SECTION

FRAME



SECTION

GRATE



NOTCH DETAIL

NOTE:
All welds 3/8" unless otherwise noted.

TYPICAL DETAILS OF TYPE 61614P OR 1211214P STEEL FRAME AND GRATES

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

HALEAKALA CRATER ROAD RESURFACING
Kekaulike Avenue To Haleakala National Park
Project No. 378A-01-04M

Scale: As Shown Date: October, 2003

SHEET No. 2 OF 2 SHEETS