

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	ER-12(2)	2001	4	145

GENERAL NOTES

1. The scope of work for this project includes removing existing asphalt concrete pavement, and existing concrete culvert; constructing bridge, and approach slabs; excavating for a wider and deeper channel; raising existing roadway profile, and installing new guardrails; removing and installing pavement markings; removing traffic signs; and construction and demolition of detour road; and applying BMPs.
2. The contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; Subsection 108.03 - re: Incentive Provision; Subsection 108.08 - Liquidation Damages; and Section 645 - Traffic Control.
3. The Contractor shall survey and stake out the State Highway right-of-way and all improvements associated with the project.
4. The Detour Road shall be open to traffic except at the times specified in Section 104 of the Special Provisions. Failure of the Contractor to open the Detour Road to traffic during the times specified shall result in assessment of liquidated damages specified in Section 108.08 of the Special Provisions.
5. At all times and especially at the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
6. Rainfall runoff shall be able to flow below the highway at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items, and will not be paid for separately.
7. The Contractor is advised that the following DOT, Highways Division construction projects within the project area may be started or in progress while this project is in progress:

- A. Mamalahoa Highway, Keaiwa Stream Bridge Replacement;
- B. Mamaloahoa Highway, Kaalaala Stream Bridge Replacement;
- C. Mamalahoa Highway, Paauau Stream Bridge Replacement and intersection improvements at Kamani Steet.


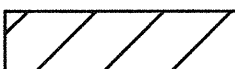
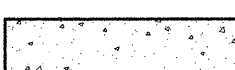

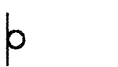

8. The Contractor shall be required to attend weekly meetings with the State and other Contractors to discuss construction coordination issues. All costs associated with the coordination meetings shall be considered incidental to the various contract items, and will not be paid for separately.
9. The Contractor is advised that in addition to other contractors working in the same area, various utility companies or their contractors may be performing work within the project area. The Contractor shall coordinate all work with the utility companies. All costs associated with this coordination shall be considered incidental to the various contract items, and will not be paid for separately.
10. The Contractor at his own expense, shall keep the project area and surrounding area from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.
11. The Contractor Shall be solely responsible for the protection of adjacent properties, utilities, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
12. Removal and disposal of any debris shall be considered incidental to their respective bid items. The Contractor shall clean and remove any accumulation of aggregate along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.
13. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
14. No work or equipment shall be located or take place within 10' of any overhead wires of any HELCO utility pole. No excavation shall take place within 5' of any HELCO utility pole.
15. The Contractor will immediately report to the Engineer and utility companies damage discovered or caused by his work to any utilities.
16. Prior to pavement surfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade. This work shall be considered incidental to the various contract items.

17. All holes, depressions and wheel ruts shall be filled and compacted with asphalt concrete prior to resurfacing. This work shall be considered incidental to various contract items and will not be paid for separately.
18. Smooth riding connections shall be constructed at all limits of surfacing.
19. All saw cutting work shall be considered incidental to the various contract items.
20. Trimming and dressing of shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and cold-planed asphalt concrete therefrom, and if necessary, additional materials from borrow outside the limits of the right of way. This work shall be considered incidental to various contract items.
21. Ash material shall not be used for embankment construction.
22. Earth swales shall be graded to drain. This work shall be considered incidental to the various contract items.
23. After completion of surfacing, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within the surfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
24. The detour road shall be constructed prior to beginning any work on the existing highway or within the existing channel. The detour road shall be removed after traffic is rerouted back to the highway.
25. Blasting will not be allowed on this project.

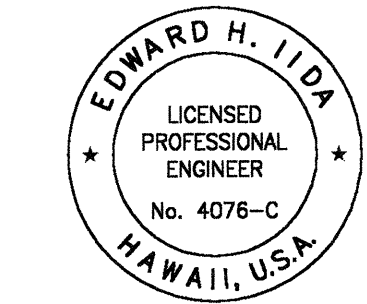
ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE	MP	MILE POST
APPROX.	APPROXIMATE, APPROXIMATELY	MPH	MILES PER HOUR
@	AT	MIN	MINIMUM
B	BEGIN OF	MISC	MISCELLANEOUS
BVC	VERTICAL CURVE	N	NORTH
BC	BOTTOM OF	NTS	NOT TO SCALE
	CURB	NO	NUMBER
		O/S	OFFSET
CL	CENTERLINE	OC	ON CENTER
CONC.	CONCRETE	OD	OUTSIDE DIAMETER
CONN.	CONNECT, CONNECTION	PAV'T	PAVEMENT
CONT.	CONTINUE, CONTINUOUS	PC	POINT OF CURVATURE
		PI	POINT OF INTERSECTION
CP-1	CP-1	PVC	POINT INTERSECTION
CY	CUBIC YARD		VERTICAL CURVE
DET	DETAIL	POC	POINT OF CURVE
DIA, Ø	DIAMETER	PT	POINT OF TANGENT
DWG	DRAWING		RADIUS
DBL	DOUBLE	R	RAISED
EA	EACH	RPM	PAVEMENT MARKERS
E	EAST		REQUIRED
EP	EDGE OF PAVEMENT	REQ'D	REVISION/
ES	EDGE OF SHOULDER	REV	REVISED
ELEV, EL	ELEVATION	RT, R	RIGHT
EMB	EMBANKMENT	ROW	RIGHT OF WAY
EVC	END OF VERTICAL CURVE		SHEET
EXC	EXCAVATE	SHT	SIGNAL
EXIST	EXISTING	SIGMH	MANHOLE
EQ	EQUAL	S	SOUTH, SLOPE, SEWER
EXT	EXTENSION	SF	SQUARE FOOT
FT	FOOT, FEET	SY	SQUARE YARD
HAW	HAWAII	STD	STANDARD
HWY	HIGHWAY	STA	STATION
HORIZ	HORIZONTAL	TYPICAL	TYPICAL
IN	INCH	UP	UTILITY POLE
INV	INVERT	VERT	VERTICAL
LF	LEFT	VC	VERTICAL CURVE
LF	LINEAR FOOT		WITH
MAX	MAXIMUM	W/	
MSL	MEAN SEA LEVEL		

LEGEND

-  New Concrete Approach Slab
-  A.C. Pavement Reconstruction Areas
-  Existing Concrete
-  Existing Traffic Sign
-  New Traffic Sign
-  New Metal Guardrail

07-31-01 1 Revised Note



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

MAMALAHOA HIGHWAY
EMERGENCY REPLACEMENT OF
FORD CROSSING

Federal Aid Project No. ER-12(2)
Scale: As Noted Date: Feb. 2001

SHEET No.AC-3 OF 29 SHEETS

ADD. 4

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____