GENERAL NOTES:

- 1. The Scope of Work for this project consists of improvements to the Intersection of Route 11 and Kulani Road. Improvements consist of roadway widening to provide a traffic signal with left turn pockets; concrete channels and box culverts; guardrails; waterline relocation; and replacing driveway culverts. Improvements to Kulani Road consist of roadway widening to provide left turn pockets; concrete box culvert; and obtaining a 10-foot wide property acquisition on South Kulani Road.
- The Contractor is reminded of the requirements of Subsection 105.16 - Subletting of Contract, which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- The Contractor's attention is directed to the following Sections of the Standard Specifications and Special Provisions: Subsection 104.11 -Utilities and Services; Section 107 - Legal Relations and Responsibility to Public; and Section 645 — Work Zone Traffic Control.
- 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.
- 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.
- The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting any paving operations.
- Dressing of shoulders 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. This work shall be considered incidental to the various contract
- Existing drainage system will be functional 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.
- Earth swales shall be graded to drain. This work shall be considered incidental to the various contract items.
- 10. All saw cutting work shall be considered incidental to contract items.
- 11. The Contractor shall provide for access to and from all existing driveways at all times. The Contractor shall coordinate with Homeowner if driveway closure is required.
- 12. The Contractor shall remove and dispose of all existing raised pavement markers and preformed pavement marking tape prior to the overlaying of Asphalt Concrete pavement. The work shall be incidental to Asphalt Concrete Pavement.

- 13. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V prior to resurfacing. This work shall be incidental to Asphalt Concrete Pavement.
- 14. Smooth riding connections shall be constructed at all limits of the project, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
- 15. All guardrail spacer blocks shall be recycled plastic blockouts or polyethylene offset blocks approved by DOT.
- 16. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 15 feet of the edge of pavement. This work shall be considered incidental to the various contract items.
- 17. Demolishing, removing and disposing of existing drainage structures shall be considered incidental to the various contract items.
- 18. All necessary permits shall be obtained by the Contractor at his own
- 19. The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
- 20. All lanes shall be opened to traffic during the morning peak hours from 6:30 a.m. to 8:30 a.m., during the afternoon peak hours from 3:30 p.m. to 6:00 p.m. and off work hours or as directed by the Engineer. Only one lane of highway shall be closed during work
- 21. Unprotected pavement dropoffs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in
- 22. Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at the end of each work
- 23. Material from cold planing operations shall remain the property of the State and all excess shall be stock piled within 2 miles of the project limits as directed by the Engineer.
- 24. To minimize potential impacts to the Hawaiian Hoary Bats, woody vegetation taller than 15 feet high shall not be cleared between May 15 and August 15.
- 25. If brush clearing activities occur between April 1 and August 15 (peak Hawaiian Hawk breeding season), area shall be surveyed by a qualified biologist for nesting hawks, prior to commencement of brush or tree clearing. No activity will be permitted within 1,320 feet of an active Hawaiian Hawk nest. Cost for Biologist shall be incidental to various contract items.
- 26. In the event that historical resources, including human skeletal remains, cultural materials, lava tubes, and lava blisters/bubbles are discovered during construction activities, the contractor shall cease work in the immediate vicinity of the find, protect it from additional disturbances, and call the State Historical Preservation Division, Hawaii Island Section at (808) 933-7653.

ED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	HS-STP-011-2(38)	2010	3	141

	<u>ABBREVIATION.</u>
--	----------------------

LEGEND

		HOUNTENHING	7110.
	Reconstruction Areas	Aband.	Abandoned
	Transitional Cold Diamina Anoma	ac	Asphalt Concrete
(XXX)	₹ Transitional Cold Planing Areas	B	Base Line
	Resurfacing Limits	bb	Bottom of Bank
		Conc.	Concrete
	Backfill Areas	COTG	Cleanout to Grade
0	Evicting Power Polo	CRM	Concrete Rubble Masonry
°pp	Existing Power Pole	d/w	Drive Way
°tp	Existing Telephone Pole	Ďl	Drain Inlet
	- Existing 12" Water Line	DL	Drainline
	- Existing 3" Water Line, Abandoned	Emb.	Embankment
d24	Existing 24" Drain Line	ep	Existing Edge of Pavement
owmh	Existing Water Manhole	Ер	Edge of Pavement
Ø WMH	Adjusted Water Manhole	es	Existing Edge of Shoulder
<i>□ wm</i>	Existing Water Meter	ES	Edge of Shoulder
		et	Existing Edge of Travel Way
[™] WM	Adjusted Water Meter	ET .	Edge of Travel Way
WB		Exist.	Existing
[∞] W	Adjusted Water Valve Box	Exc.	Excavation
°jp	Existing Joint Pole	F.A.P.	Federal Aid Project
oh	- Existing Electrical Overhead Line	FHWA CPD	Federal Highway Administration
-∳ _{FH}	Adjusted Fire Hydrant	GRP LF	Grouted Rubble Paving Linear Feet
$-\phi_{fh}$	Existing Fire Hydrant	Lt.	Linear Feet Left
o'rm	Existing Reflector Marker	Mon.	Monument
o dso	Existing Down Spout Outlet	No.	Number
	Existing Light Pole	0.C.	On Center
[©] /p		0/5	Offset
° cotg	Existing Clean Out To Grade	oh	Overhead
sw/	3	PC	Point of Curvature
pIn	– Passing Lane	PP	Power Pole
—— tb —	– Top of Bank	PT	Point of Tangency
——bb —	– Bottom of Bank	Æ	Property Line
syl	- Single Yellow Line	rm	Reflector Marker
==dy/==	= Double Yellow Line	RPM	Raised Pavement Marker
d/w	Existing Drive Way	R/W, r/w	Right-of-way
s/bar		Rt.	Right
byl	Existing Broken Yellow Line	Shts.	Sheets
,	Existing Edge of Pavement	SOH	State of Hawaii
ер		Sta.	Station Tanget Bands
● mon.	Existing Monument	tb Thk.	Top of Bank Thick
þ	Existing Traffic Sign	TMK	Tax Map Key
r/w	Existing Right-of-Way Line	Тур.	Typical
'/ " -×××-	- Existing Fence	bldg w	Building Water
\wedge	Headwall	W	WU(G)
0	Reflector Maker	<u> </u>	
			OTATE OF HANALAH



LICENSE EXPIRES 4/30/12 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

& C. you

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

Volcano Road Intersection and <u>Drainage Improvements</u> Federal-Aid Project No. HS-STP-011-2(38)

Scale: None

Date: November 2010

SHEET No.

OF **1**