

GENERAL NOTES

1. The scope of work for this project consists of clearing and grubbing, excavation, shotcrete, hydro-mulch seeding, tieback anchors, draped wire mesh, anchored wire mesh, rockfall impact barriers, guardrail, geogrid, geocell, and reconstruction of pavements.
2. The Contractor is reminded of the requirements of Subsection 105.16(A) – Subcontract Requirements, which requires him to perform work 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.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 – Contractor Duty Regarding Public Convenience; Subsection 107.12 – Protection of Persons and Property; and Section 645 – Work Zone Traffic Control
4. 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.
5. 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 tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify all Emergency Services including Police Department, Fire Department, and Ambulatory Services, two (2) weeks prior to construction, informing them of location, scope of work, and dates of lane(s) closure(s) of Hawaii Belt Road.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
8. The Contractor shall obtain a Community Noise permit from the State Department of Health, if requesting to work at night. This shall be considered incidental to various contract items and will not be paid for separately.
9. The Contractor shall indemnify and be solely responsible for the protection of public, adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
10. Existing drainage system shall be functional at all times during construction. The Contractor shall 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.
11. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items and will not be paid for separately.
12. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to various contract items and will not be paid for separately.

13. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to various contract items and will not be paid for separately.
14. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, and any debris shall be considered incidental to their respective bid items.
15. All saw cutting work shall be considered incidental to various contract items and will not be paid for separately.
16. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
17. The top of the Plant Mix Glassphalt Concrete Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten-foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16."
18. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes complying with ADAAG Section 4.3, and side streets and cross streets at all times. This work shall be considered incidental to Traffic Control and will not be paid for separately.
19. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved with at least an inch of Asphalt Concrete Pavement, Mix No. V or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to Traffic Control and will not be paid for separately.
20. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer.
21. The exact locations and limits or areas to be filled with leveling course, reconstructed, and cold planed shall be determined in the field by the Engineer.
22. Rock scaling beneath draped and anchored wire mesh systems shall be considered incidental to the wire mesh system, and will not be paid for separately.
23. Leveling surfaces beneath draped and anchored wire mesh systems, ~~when ordered by the Engineer, shall be paid for under Item No. 208.0100 Leveling Surfaces.~~ shall be considered incidental to the wire mesh system, and shall not be paid for separately.
24. 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 Historic Preservation Division, Hawaii Island Section at (808) 933-7653.
25. To protect the endangered Hawaiian Hoary Bat, woody vegetation taller than 15 feet high shall not be cleared between April 15 and August 15.
26. To protect the endangered Hawaiian Hawk, if brush clearing activities occur between April 1 and August 15, a qualified biologist shall survey the area for nesting hawks prior to commencement of brush or tree clearing. No activities will be permitted within 1,320 feet of an active Hawaiian Hawk nest.

ABBREVIATIONS:

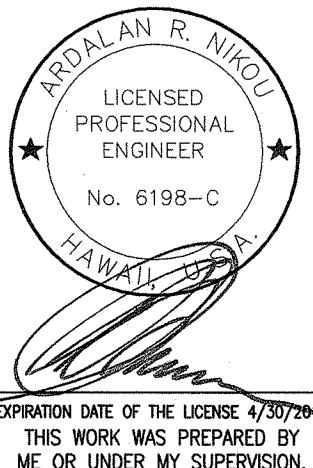
@	At
AC, A.C.	Asphalt Concrete
℄	Baseline
℄	Center line
clr	Clear
Conc.	Concrete
CRM	Concrete Rubble Masonry
cy, CY	Cubic Yard
dia., Ø	Diameter
e.g., eg	Existing Ground
El., Elev.	Elevation
EP, E.P.	Edge of Travel Way
ep	Existing Edge of Travel Way
ES, E.S.	Edge of Shoulder
es	Existing Edge of Shoulder
ft	Feet
Ga.	Gauge
H.D. Galv.	Hot Dip Galvanized
Horiz.	Horizontal
HMA	Hot Mix Asphalt
HWY	Highway
Inv.	Invert
If, LF	Linear Feet
Lat.	Latitude
Log.	Longitude
Lt	Left
min., Min., MIN.	Minimum
M.P.	Match Line
MP	Milepost
N.T.S.	Not to Scale
O/S	Offset
O.C.	On Center
℄	Property Line
PT	Point of Tangency
Pvmnt	Pavement
R	Radius
R/W, r/w	Right-of-way
RCP	Reinforced Concrete Pipe
Rt	Right
s.e.	Superelevation
sf	square feet
Sht	Sheet
Sta.	Station
Std.	Standard
TMK	Tax Map Key
TYP, Typ, typ	Typical
Vert.	Vertical

LEGEND

	Reconstruction Areas
	Draped Wire Mesh
	Anchored Wire Mesh
	Resurfacing Limits
	Anchored Erosion Mat
	Hand-laid Riprap
	Existing Electrical Line
	Existing Joint Pole
	Existing Power Pole
	Existing Telephone Line
	Existing Telephone Pole
	Existing 12" Water Line
	Existing Water Manhole
	Existing Water Air Valve
	Existing Water Valve Box
	Existing Water Meter
	Existing Fire Hydrant
	Existing Sewer Line
	Existing Monument
	Existing 24" Drain Line
	Existing Traffic Sign
	Existing Metal Guardrail
	New Metal Guardrail

27. Trim trees and shrubs within limits of all draped wire mesh and anchored wire mesh systems, and within (6) feet of all rockfall impact barrier systems, in accordance with Section 688 of the Special Provisions.
28. Provide NCHRP 350, TL-3 End Treatment for the leading and trailing ends of all portable concrete barriers, for all sites. This work shall be considered incidental to traffic control.
29. Maintain a 10 foot minimum clearance from all HELCO facilities, either overhead or beneath ground level, at all times. No drilling or excavation allowed within 10 feet of overhead transmission tower facilities.

AECOM



6/30/10	Revised Note 23 and added Notes 27, 28 and 29 per Addendum 2
DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

EMERGENCY EARTHQUAKE ROCKFALL REPAIRS

AT VARIOUS LOCATIONS

F.A. Project No. ER-15(21)

Scale: As Noted Date: December, 2009

SHEET No. 1 OF 1 SHEETS