

GENERAL NOTES

1. The scope of work for this project includes removing existing pavement markings, installing new milled rumble strips, pavement markings and traffic signs, constructing new concrete gutter, cleaning existing culverts, dressing and hydro-mulch seeding.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; 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 be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The allowable lane closure hours shall be as follows:

Maluhia road to Papalina Road,
8:30 PM - 5:30 AM, Sunday night through Friday Morning.

Papalina Road to Eleee Road,
8:30 AM - 3:00 PM, Monday through Friday.

Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic beyond the allowable lane closure hours specified above shall result in assessment of liquidated damages as specified in Section 108.09 of the Special Provisions.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting his operations.
8. The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items and will not be paid for separately.
9. Contractor shall exercise extreme caution to preserve BENCHMARKS (Survey Monuments). Whenever the center of a Survey Monument is less than three (3) feet from the edge of construction, the Contractor shall retain a Licensed Land Surveyor to reference the location of said Survey Monument.

Benchmarks that are disturbed or destroyed shall be restored under a Licensed Land Surveyor's direction. Copies of field notes, descriptions and new values of the new benchmark shall be sent to the Department of Transportation, Highways Division, Cadastral Engineering Section, for review and approval prior to construction.
10. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
11. 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. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. 241-3000.
12. Removal and disposal of milled A.C. pavement and existing pavement markers and striping shall not be paid for separately but shall be included in the bid price for contract Item No. 615.0100 - Milled Rumble Strips - Centerline.

13. Remove and install new pavement markings at centerline of pavement where milled rumble strip occurs (refer to Plan Sheet Nos. 9 thru 32).
14. Existing drainage system will 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.
15. Trimming and dressing of fill areas shall consist of clearing, grubbing, grading, reshaping and compacting the fill areas with suitable materials as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from the roadway excavation, including topsoil and base material therefrom and if necessary, additional materials from borrow outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and roadway excavation shall not be used. This work shall be included in the bid price for contract Item No. 641.0100 - Hydro-Mulch Seeding.
16. Clearing and removal of vegetation and soil build up along paved areas shall be paid on force account basis under pay Item No. 643.0110 - Maintenance of Existing Landscape Areas. Refer to Plan Sht. Nos. 15 thru 32.
17. All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
18. Earth swales shall be graded to drain. Graded swales shall be grassed. This work shall be considered incidental to the various contract items.
19. The driver feedback sign with variable message display (Model - FORTEL Standard VMS or Approved Equal) shall be included in the bid price for contract Item No. 645.0300 - Speed Monitoring Devices. Follow Manufacturer's installation recommendation.)

LEGEND

- — — Rumble Strips
- ⊙_{pp} Existing Power Pole
- ⊙_{emh} Existing Electric Manhole
- ⊙_{EMH} Adjusted Elec. MH Frame/Cover
- ⊞_{epb} Existing Electric Pullbox
- ⊙_{tmh} Existing Telephone Manhole
- ⊙_{TMH} Adjusted Tel. MH Frame/Cover
- ⊞_{tpb} Existing Telephone Pullbox
- w—12— Existing 12" Water Line
- ⊙_{wrmh} Existing Water Manhole
- ⊙_{WMH} Adjusted Water MH Frame/Cover
- ⊙_{av} Existing Water Air Valve
- ⊙_{AV} Adjusted Water Air Valve
- ⊙_{gv} Existing Water Valve Box
- ⊙_{GV} Adjusted Water Valve Box
- ⊞_{wm} Existing Water Meter Box
- ⊞_{WM} Adjusted Water Meter Box
- ⊞_{WM} New Type "X" Water Meter Box
- ⊞ Existing Traffic Sign
- ⊞ New Traffic Sign
- ⊞ Existing Metal Guardrail
- Existing Metal Guardrail
- New Metal Guardrail
- Adjusted and/or Relocated Metal Guardrail
- ⊙_{fh} Existing Fire Hydrant
- s—12— Existing Sewer Line
- S—12— New 12" Sewer Line
- ⊙_{smh} Existing Sewer Manhole
- ⊙_{SMH} Adjusted Sewer Manhole
- ⊙_{SMH} New Sewer Manhole
- ⊙_{mon} Existing Monument
- ⊙_{MON.} Adjusted Monument
- ⊙_{MON.} New Monument
- d--24--- Existing 24" Drain Line
- ⊙_{sdmh} Existing Storm Drain Manhole
- ⊙_{SDMH} Adjusted Storm Drain Manhole
- ⊞_{gdi} Existing Grated Drop Inlet
- ⊞_{GDI} New Grated Drop Inlet
- _{GDI} Adjusted/Reconstructed Drain Inlet or Replaced Steel Grate

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-050-1(35)	2013	3	33

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAUMUALII HIGHWAY SAFETY IMPROVEMENTS

Vicinity of Kahili Mountain Park to Eleee Road

Federal-Aid Project No. HSIP-050-1(35)

Date: July 2012

SHEET No. 1 OF 1 SHEETS