

GENERAL NOTES

1. The scope of work for this project includes slope surface preparation; clearing of vegetation; recontouring by grading and shaving existing slopes; installation of erosion control matting; planting; hydromulching; installation of concrete fabric lining system; lining of culverts; installation of grouted rubble rip rap; installation of manufactured BMPs; installation and maintenance of temporary erosion control BMPs; and providing traffic control.
2. The Contractor's attention is directed to the following Specification Sections of the Standard Specifications: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.
3. The Contractor shall notify the Hawaii One Call Center (811 or 866-423-7287) no less than five (5) working days prior to excavation, on each or all locations, for locating underground facilities pursuant to HRS Section 269E-4.
4. Pursuant to Chapter 6E, HRS, in the event any historic resources, including cultural deposits or human skeletal remains, are uncovered during construction operations, the Contractor shall suspend work in the immediate vicinity of the find, protect the find from additional disturbance, and notify the Honolulu Police Department and the State Department of Land and Natural Resources - Historic Preservation Division (692-8015).
5. 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. The existence and location of underground utilities, manholes, monuments, guardrail 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.
7. All dimensions and details shown on the drawings shall be checked and verified prior to the start of construction, and any discrepancies shall be immediately brought to the attention of the Engineer for clarification.
8. All existing utilities to remain in use, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. Any damages to existing utilities shall be repaired and paid for by the Contractor.
9. Unless relocation is called for on the plans, existing utilities shall remain in service and in place. If relocation of existing utilities is required for the Contractor's convenience, interruption of service shall be kept to a minimum and shall be done at the Contractor's expense and only with the approval of the Engineer.
10. The Contractor shall provide for vehicle and pedestrian access to and from all existing public streets and driveways at all times.
11. 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 any culvert work or the various contract items and will not be paid for separately.

12. Existing facilities, guardrail, landscaping and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.
13. All regraded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specification Section 619 - Planting. Contractor shall restore to its original condition at no cost to the State.
14. When excavating in close proximity to walls, fences, and other improvements, the Contractor shall protect, support, secure, and take all precautions to prevent damaging these facilities and improvements.
15. No material or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations designated in writing and approved by the Engineer.
16. Contractor shall dispose of any removed material at an approved DOH waste management facility, as stated in the Contractor's BMP plan, at no extra cost to the State.
17. After the project is completed, the Contractor shall restore grades and groundcover within the project limits to a condition equal to or better than existing condition prior to construction.
18. All 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.
19. The Contractor shall provide a safety plan for working on slopes or heights greater than six (6) feet that requires a harness, and in accordance with 29 CPR Part 1926, prior to start of work on the slope.
20. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.

LEGEND

- Property Line
- Limits of Work
- Centerline
- Existing Guardrail
- Erosion Control Mat
- Landscape Planting
- Fiber Roll
- Runoff Direction
- Access Permitted
- No Vehicular Access Permitted
- No Access Permitted
- Limited Access as Noted on Plans
- Top of Slope

ABBREVIATIONS

- AC, ac Asphalt Concrete
- BL Baseline
- BMP Best Management Practices
- Bott. Bottom
- CL Centerline
- CL Chain Link
- Clr. Clearance
- Conc. Concrete
- CRM Concrete Rubble Masonry
- Det. Detail
- Dia. Diameter
- EA Each
- EB Eastbound
- EC Erosion Control
- ECM Erosion Control Mat
- Elev Elevation
- EQ Equal
- ep Edge of Pavement
- es Existing Edge of Shoulder
- etw Existing Edge of Travel Way
- exist. Existing
- ftg. Footing
- gdi Grated Drain Inlet
- GRP Grouted Rubble Paving
- G.W. Guy Wire
- I.D. Inside Diameter
- I.E./inv. Invert Elevation
- L Length
- Lt. Left
- Max. Maximum
- M.L. Matchline
- Min. Minimum
- NTS Not to Scale
- o.c. On Center
- O/H Overhead
- o/s Offset
- PC Point of Curvature
- PERM. Permanent
- PI Point on Intersection
- PID Project Identification Number
- POC Point on Curvature
- PT Point of Tangency
- R Radius
- Rt. Right
- r/w Right-of-Way
- S Slope
- SFM Sewer Force Main
- sl Street Light
- SLB Street Light Box
- Sta. Station
- Std. Standard
- ST. MON. Street Monument
- sym. Symbol
- t Telephone
- T/thk Thick
- TC Traffic Control
- TCP Traffic Control Plan
- Typ. Typical
- UG Underground
- U.P. Utility Pole
- w Water
- W Width

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	5	71

DATE	DATE	DATE	DATE	DATE	DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
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JASON H. IAO

LICENSED PROFESSIONAL ENGINEER

NO. 9360-C

HAWAII USA

4/30/16

EXP. DATE

[Signature]

This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GENERAL NOTES, LEGEND

AND ABBREVIATIONS

CENTRAL OAHU BEST MANAGEMENT PRACTICES

ERODED SLOPE REPAIRS, PHASE 2

Project No. HWY-O-06-15M

Scale: None

Date: May 2015