

GENERAL NOTES

1. The scope of work for this project includes clearing of vegetation; tree protection, recontouring by grading; planting; installation of permanent BMPs; retrofit of existing drainage structures; installation of drain lines, manholes, and a grated drop inlet; installation of a drainage diversion box, installation and maintenance of temporary erosion control and sediment 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. The Contractor's attention is directed to Section 212 of the Special Provisions for work related to archaeological monitoring.
5. Pursuant to Chapter 6E, HRS, in the event any artifacts of human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Honolulu Police Department and the State Department of Land and Natural Resources - Historic Preservation Division (692-8015).
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. The Contractor shall provide for vehicle and pedestrian access to and from all existing public streets and driveways at all times.
12. 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.
13. 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.

14. 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.
15. 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.
16. The Contractor shall verify the locations and elevations of all existing utility lines and notify respective owners before commencing any excavation work.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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 CFR Part 1926, prior to start of work on the slopes.
22. 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.
23. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
24. The Contractor shall comply with Section 212 - Archaeological Monitoring of the Special Provisions prior to commencement of construction activities at the project site.

LEGEND

- Property Line
- Limit of Work/Disturbed Area/Grading
- Centerline
- Compost Filter Sock
- Staging Area Limit
- ~~~~~ Runoff Direction
- Access Permitted
- No Vehicular Access Permitted
- No Access Permitted
- Limited Access as Noted on Plan

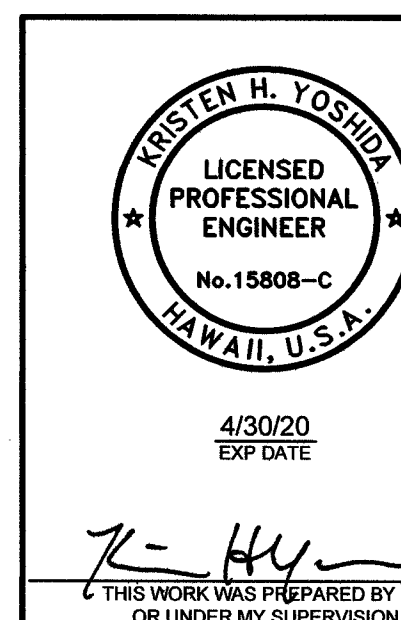
- Top of Slope
- Existing Guardrail
- Existing Underground Electrical
- Existing Communication Line
- Existing Drain Line with Nominal Diameter in Inches
- Existing Water Line with Nominal Diameter in Inches
- Existing Sewer Line with Nominal Diameter in Inches
- Existing Underground Utility
- Existing Telephone Line
- Existing Contour

ABBREVIATIONS

A.C.	Asphalt Concrete	Galv.	Galvanized	PT	Point of
B	Baseline	gdi	Grated Drain		Tangency
BMP	Best Management Practices		Inlet	PVC	Polyvinyl Chloride
BVC	Begin Vertical Curve	GRP	Grouted Rubble Paving	Q25	25-Year Flow Radius
PBMP	Permanent Best Management Practices	GP	Guard Post	REF	Reflector
		G.W.	Guy Wire	Rt.	Right
Btm/Bott.	Bottom	H	Height	r/w	Right-of-Way
CB	Catch Basin	HAW	Hawaii	S	Slope/Spread
C	Centerline	HB	Hose Bibb	SDMH	Storm Drain
CLF	Chain-Link Fence	HECO	Hawaiian Electric Company	SFM	Sewer Force Main
Clr.	Clearance	HWY	Highway		
CLSM	Controlled Low-Strength Material	I.D.	Inside Diameter	sl	Street Light
CO	Cleanout	Inv.	Invert Elevation	SLB	Street Light Box
COL	Column	JTS	Joint Trunking System	Sta.	Station
Conc.	Concrete		Length	Std.	Standard
Cont	Continued	L	Left	STP	Stand Pipe
C. SLAB	Concrete Slab Detail	Lt.	Light Pole	St. MON.	Street Monument
Det.		LP	Maximum	sym.	Symbol
D/Dia.	Diameter	Max.	Marine Corps Base Hawaii	T	Telephone
DI	Drain Inlet	MCBH	Matchline	T/thk	Thick
EB	East Bound/Electric Box	M.L.	Minimum	TCP	Traffic Control Plan
EC	Erosion Control	Min.	Manhole	TEL	Telephone
Elev	Elevation	MH	Miles Per Hour	TMK	Tax Map Key
EP	Electric Pole	MPH	Number	TSB	Traffic Signal Box
EQ	Equal	No.	Not to Scale	TSP	Traffic Signal Pole
EXP	Exposed	NTS	On Center		
es	Existing Edge of Shoulder	O.C.	Outside Diameter	Typ.	Typical
etw	Existing Edge of Travel Way	O.D.	Overhead	UD	Under Drain
EVC	End Vertical Curve	O/H	Offset	UG	Underground
exist.	Existing	o/s	Pavement	UB	Utility Box
FT	Feet	Pav't	Point of Curvature	U.P.	Utility Pole
ftg.	Footing	PC	Point of Vertical Curve	VC	Vertical Curve
		PCC	Point of Compound Curve	w	Width
		P.D.C.	Portland Cement Concrete	W	With
		PI	Point of Intersection	w/	Water Meter
		PID	Point Identification	WM	Water Surface
		PIVC	Point of Vertical Curve	WSE	Elevation
		POC	Point on Curvature	WQFR	Water Quality
				WV	Flow Rate
				W.W.F	Water Valve
				#	Welded Wire Fabric
					Number, Pound

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

HA-007 Highway 201704000 Gen. Miscellaneous BMPs (4 Graphics) (200 Sheets) Set Package 2(N-01 Gen-Notes - Legend-Abbreviations)



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES, LEGEND AND ABBREVIATIONS**

MISCELLANEOUS PERMANENT  
BEST MANAGEMENT PRACTICES, PHASE 2B

Project No. HWY-0-05-18

Scale: None Date: April 2018

SHEET No. N-01 OF 11 SHEETS



GRADING NOTES

1. All grading work shall be done in accordance with Chapter 14, Articles 13, 14, 15 and 16, as related to grading, soil erosion and sediment control, of the Revised Ordinances of Honolulu, 1990, Rules of the State Department of Health and soils reports by Geolabs, Inc. dated August 5, 2015.
2. No Contractor shall perform any grading operation as to cause falling rocks, soil or debris in any from to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
3. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards contained in the Hawaii Administrative Rules, Title 11, Chapter 60.1, "Air Pollution Control".
4. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
5. Adequate provisions shall be made to prevent surface waters from damaging the cut face of an excavation or the sloped surfaces of a fill. Furthermore, adequate provisions shall be made to prevent sediment-laden runoff from leaving the site.
6. All slopes and exposed areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted.
7. Fills on slopes steeper than 5:1 shall be continuously keyed and benched as the fill is brought up in lifts.
8. The City shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
9. No grading work shall be done on Saturdays, Sundays and holidays at any time without prior notice and approval from the Engineer, provided such grading work is also in conformance with the community noise control standards contained in the Hawaii Administrative Rules, Title 11, Chapter 46, "Community Noise Control".
10. The limits of the area to be graded shall be flagged before the commencement of the grading work.
11. All grading operations shall be performed in conformance with the applicable provisions of the water quality and water pollution control standards contained in Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards", and Title 11, Chapter 55, "Water Pollution Control", and if applicable, the NPDES permit for the project.
12. Where applicable and feasible, the measures to control erosion and other pollutants shall be in place before any earth moving phase of the grading is initiated.

13. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
14. Temporary erosion control procedures shall be submitted for approval prior to application for grading permit.
15. If the grading work involves contaminated soil, then all grading work shall be done in conformance with applicable state and federal requirements.
16. Building permit for retaining walls shall be obtained prior to commencement of grading work on site.
17. For non-City projects, the Contractor shall notify the Civil Engineering Branch, D.P.P. at 768-8084 to arrange for inspectional services and submit two (2) sets of approved construction plans seven (7) days prior to commencement of construction work. For City projects, the Contractor shall coordinate inspectional services with the responsible City agency.
18. Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Honolulu Police Department, the State Department of Land and Natural Resources-Historic Preservation Division (692-8015). In addition, for non-City projects, the Contractor shall inform the Civil Engineering Branch, D.P.P. (768-8084); and for City projects, notify the responsible City agency.
19. For all projects, which will disturb one (1) acre or more of land, the Contractor shall not start construction until a Notice of General Permit Coverage (NGPC) is received from the Department of Health, State of Hawaii, and has satisfied any other applicable requirements of the NPDES permit program. Also, for non-City and other non-governmental agency projects, the Contractor shall provide a written copy of the NGPC to the permitting and inspection section, Civil Engineering Branch, D.P.P., at least seven (7) calendar days before the start of the construction. for City or other governmental projects, the Contractor should provide a written copy of the NGPC to the appropriate City department or governmental agency per their requirements.
20. All grading and construction work shall implement measures to ensure that the discharge of pollutants from the construction site will be reduced to the maximum extent practicable and will not cause or contribute to an exceedance of water quality standards.
21. Non-compliance to any of the above requirements shall mean immediate suspension of all work, and remedial work shall commence immediately. All costs incurred shall be billed to the violator. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.
22. For Bench Marks, see Sheets C-03.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-18	2018	4	25

PUBLIC HEALTH, SAFETY, AND CONVENIENCE NOTES

1. The Contractor shall observe and comply with all federal, state, and local laws required for the protection of public health, safety and environmental quality.
2. The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the Air Pollution Standards and Regulations of the State Department of Health. The State shall require supplementary measures if required.
3. The Contractor shall be responsible for the cleaning and removal of all silt and debris generated by his work and deposited and accumulated within downstream waterways, ditches and drain pipes and public and private roadways. The Contractor agrees to reimburse the State for all costs expended in performance of above work if required for public health and safety or made necessary by non-performance by the Contractor.
4. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing city drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
5. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience and safety of the public.
6. The Contractor's attention is directed to Chapter 46, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control," in which maximum permissible noise levels have been set. If the construction work requires a permit from the Director of Health, the Contractor shall obtain a copy of Chapter 46 and become familiar with the noise level restrictions and the procedures for obtaining a permit for the construction activities. Applications and information on permits and variances are available from the Indoor and Radiological Health Branch, Noise Section, 591 Ala Moana Boulevard, Honolulu, HI 96813 or by telephone (586-4700).

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

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4/30/20  
EXP DATE

*K-H*

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONSTRUCTION NOTES**

MISCELLANEOUS PERMANENT  
BEST MANAGEMENT PRACTICES, PHASE 2B

Project No. HWY-O-05-18

Scale: None Date: April 2018

SHEET No. N-02 OF 11 SHEETS