

C:\M PROJECTS\2015-160,004-HDOT KIPIMANA TRAFFIC SIGNAL\G DWGS\CIVIL\00 CAD DWGS\AS-BUILT DWGS\01 CE DWG\03 GENERAL NOTES.DWG 2/26/2021 11:12 AM KSAW

GENERAL CONSTRUCTION NOTES:

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11N-01-19M	2019	3	26 <del>25</del>

1. The scope of work for this project consists of installation of a temporary traffic signal at the Volcano Road and Kipimana Street intersection including, but not limited to, temporary traffic signal wires and poles, signs, intersection striping, as well as modification of paving limits.
2. All construction work shall be in accordance with the "Standard Plans," dated 2008, "Hawaii Standard Specifications for Road and Bridge Construction," 2005 edition, and the latest specifications for "Installation of Miscellaneous Improvements within State Highways," of the State of Hawaii, Highways Division, Department of Transportation.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107 - Legal Relations and Responsibility to Public; Subsection 104.11 Utilities and Services.
4. The Contractor shall notify the State in writing, two (2) weeks prior to starting construction operations.
5. At the end of each day's work, the Contractor shall maintain at least one paved shoulder free and clear of debris and remove all equipment and other obstructions to permit free and safe passage of pedestrian and bicycle traffic.
6. 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 the 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 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.
7. The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground facilities and shall maintain adequate clearance when operating equipment within or under overhead facilities. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of its operations.
8. When trench excavation is adjacent to or under existing structures or facilities, the Contractor shall be responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins and settlement and for properly supporting existing structures and facilities with beams, struts or under-pinning to fully protect them from damage. This work shall be considered incidental to various contract items.
9. When excavating near utility poles, the Contractor shall protect, support, secure and take all other precautions to prevent damage to or leaning of these poles. The Contractor is responsible for all costs associated to repair and/or straighten pole.
10. Temporary cold mix trench patches will be permitted in any given area for a maximum duration of two weeks, and shall be a minimum of 2 inches thick. All temporary patches shall be placed over properly placed and compacted backfill and base course layers. Contractor shall be responsible for maintaining all temporary patches and to make repairs to unsatisfactory patches within 24 hours.

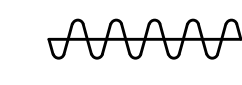
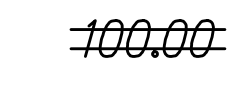

11. All excavation work called for on the plans and not itemized in the proposal and all excavation work not called for but required for the construction of this project shall be considered incidental to the various contract items.
12. The Contractor shall indemnify and be solely responsible for the protection of 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.
13. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items and will not be paid for separately.
14. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items and will not be paid for separately.
15. 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 note be paid for separately.
16. 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.
17. Removal and disposal of existing asphalt concrete pavement, thermoplastic line markings, traffic tapes, pavement markers, epoxy adhesives and any debris shall be considered incidental to their respective bid items.
18. All saw cutting work shall be considered incidental to Item No. 401.0000 - Hot Mix Asphalt Pavement, Mix No. IV, and will not be paid for separately.
19. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
20. The top of the plant mix asphalt concrete base course prior to placement of the new AC 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".
21. Contractor shall provide and maintain access to and from existing side streets and driveways at all times. This work shall be considered incidental to various contract items and will not be paid for separately.
22. No material and or equipments shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the District Engineer.

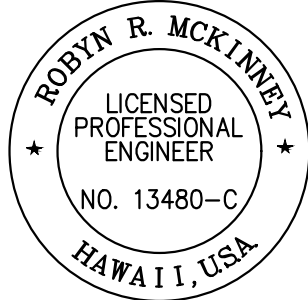
23. The Contractor will be allowed to pave one lane of the roadway on a single day with the adjacent shoulder being paved the next day. The adjacent lane shall be paved no later than the third day.
24. Pavement striping shall be done with alkyd-based thermoplastic.
25. The Term "Engineer for the Utility Companies" shall also mean its delegated Representative and/or the Utilities' Inspectors of record.
26. The Contractor at its 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 and regulations of the State Department of Health.
27. After completion of paving, the Contractor and the Engineer will test for, and determine ponding areas (i.e. low spots within paved area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas.
28. Work may be performed only between the hours of 8:30 a.m. and 3:00 p.m., Monday through Friday, except State holidays, and Department of Transportation furlough days unless when otherwise approved in writing by the Director of the Department of Transportation.

During work hours, only one lane of traffic shall be closed, unless otherwise approved in writing by the District Engineer.

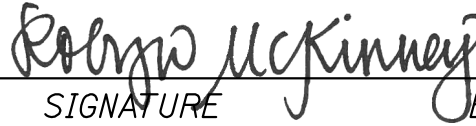
At certain locations, "No Lane Closure" will be allowed during the "Back to School Jam", Thanksgiving weekend, Christmas/New Year period and at other times as directed by Highways Division.
29. Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
30. Lane closures or detours that slow down traffic shall not occur during peak hours (6:30 am to 8:30 am and 3:30 pm to 6:00 pm). Night work may be permitted. If the Contractor elects to perform work at night, a noise variance permit shall be obtained at the Contractor's expense with no additional time.
31. If night work is approved, the Contractor shall stop all work and contact the U.S. Fish and Wildlife Service (1-800-344-9453) if bats or birds are seen flying around the work area at night.

LEGEND FOR AS-BUILT POSTINGS

-  Squiggly line for as-built deletion
-  Double line for as-built deletion
-  Text for as-built posting



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

  
SIGNATURE

APRIL 30, 2020  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES**  
**VOLCANO ROAD TEMPORARY SIGNAL INSTALLATION**  
**At Kipimana Street**  
**Project No. 11N-01-19M**

Scale: N/A  
Date: April, 2019

C:\M PROJECTS\2015\_160.004\_HDOT KIPIMANA TRAFFIC SIGNAL\G DWGS\CIVIL\00 CAD DWGS\AS-BUILT DWGS\01 CE DWG\04 LEGEND AND ABBREVIATIONS.DWG 2/26/2021 11:15 AM KSAW

GENERAL CONSTRUCTION NOTES (CONT'D):

32. The Contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities, and shall take necessary precautions for the protection, convenience, and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Street and Highways", adopted by the Director of Transportation, the current U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Temporary Traffic Control", and AASHTO "Manual for Assessing Safety Hardware", 2016 edition.
33. The Contractor shall be required to provide adequate, safe, non-skid bridging material over any trench, including shoring, when trenching in pavement areas to handle all types of vehicular traffic. The use of steel plates shall not be used in the freeway travelway.
34. Unprotected pavement drop offs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
35. All regulatory, guide and construction signs and barricades shall be high intensity reflective background.
36. All signs, pavement markings, striping, etc. removed or damaged by the Contractor shall be replaced by the Contractor at no additional cost to the State.
37. Verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the Engineer for direction.
38. No Contractor shall perform any construction activity so as to cause falling rock, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural water courses. Should such violations occur, the costs incurred for any remedial action shall be payable by the Contractor.
39. The Contractor shall be responsible for conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health.
40. Prior to the start of construction, the Contractor shall contact the Hawaii One Call Center to have respective utility companies have and mark where their underground facilities are located. The Contractor shall coordinate all work.

41. The Contractor shall restore to their original condition or better, all improvements damaged as a result of the construction, including pavements, embankments, curbs, signs, landscaping, structures, utilities, walls, fences, etc. unless provided for specifically in the proposal. Demolition and restoration of existing items shall be incidental to the various contract items.

LEGEND:

	Existing Right-of-Way
	Existing Joint Pole
	Existing Telephone Pole
	Existing Water Manhole
	Existing Water Valve Box
	New Delineator
	Existing Single Metal Guardrail
	Flow Arrow
	Filter Socks
	Remove Exist. Feature/s
	Demolish Exist. AC Pavement
	Clear and Grub
	New AC Pavement
	Existing Top of Slope
	Existing Toe of Slope

ABBREVIATION LIST:

∅	Phase	oc	On Center
AASHTO	American Association of State Highway and Transportation Officials	O/S	Offset
AC	Asphalt Concrete	Pav't	Pavement
ASTM	American Society for Testing and Materials	PCC	Portland Cement Concrete
Ave	Avenue	Proj	Project
£	Baseline	psi	pounds per square inch
BMP	Best Management Practices	R	Radius
Btm	Bottom	RPM	Raised Pavement Marker
C	Chord Length, Curve	Rt	Right
CCTV	Closed-Circuit Television	RYG	Red Yellow Green
CFR	Code of Federal Regulations	R/W	Right of Way
CWB	Clean Water Branch	SB	South Bound
D	Deflection Angle	SC	Sediment Control
Def	Detail	Sch	Schedule
Dia	Diameter	SDS	Safety Data Sheets
Dir	Director	sf	Square Feet
Dist	District	Sht	Sheet
DOH	Department of Health	SM	Site Management
E	Easting	St	Street
ea	each	Sta	Station
EC	Erosion Control	SWPPP	Storm Water Pollution Prevention Plan
Elev	Elevation	T	External Tangent
EP	Edge of Pavement	Thk	Thick
EPA	Environmental Protection Agency	TMK	Tax Map Key
ES	Edge of Shoulder	Trav	Traverse
Exist	Existing	Typ	Typical
Fed	Federal	UPS	Uninterruptible Power Supply
FHWA	Federal Highway Administration		
Galv	Galvanized		
Gr	Grade		
Haw	Hawaii		
HDOT	Hawaii Department of Transportation		
Hwy	Highway		
km	kilometer		
L	Length, Line		
lbs	pounds		
Lt	Left		
Mag	Magnetic		
Max	Maximum		
Min	Minimum		
MSDS	Material Safety Data Sheets		
MUTCD	Manual on Uniform Traffic Control Devices		
N	Northing		
NB	North Bound		
No	Number		
NPDES	National Pollutant Discharge Elimination System		
NRC	National Response Center		
NS	Non-Stormwater Management Control		
NTS	Not To Scale		
N/A	Not Applicable		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

*Robyn McKinney*  
SIGNATURE

APRIL 30, 2020  
EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11N-01-19M	2019	ADD. 4	26

LEGEND FOR  
AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

6/10/19

Address DOT comments

DATE

REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES, LEGEND  
AND ABBREVIATIONS

VOLCANO ROAD TEMPORARY SIGNAL INSTALLATION

At Kipimana Street

Project No. 11N-01-19M

Scale: N/A

Date: April, 2019

SHEET No. 4 OF 7 SHEETS

ADD. 4