

GENERAL NOTES:

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-13	2017	3	21

1. The scope of work for this project consists of installing storm drain pipe and structure, reconstructing pavement structures, installing pavement marking and striping, replacing existing damaged concrete drain pipes, importing soil, and relocating existing utility lines.

2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts, which requires him to perform work amounting 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 Standard Specifications and Special Provisions: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 107.11 - Safety: Accident Prevention; 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 be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. The Contractor will immediately report to the Engineer and utility companies damage discovered or caused by his work to any utilities. All damaged portions shall be replaced or repaired in accordance with the standards and specifications of the affected utility company at the Contractor's expense.

6. The 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 the various contract items.

7. All saw cutting work shall be considered incidental to the various contract items.

8. The Contractor shall provide for free and safe access to and from all existing side streets at all times.

9. The Contractor shall provide for access to and from all existing driveways at all times. The Contractor shall coordinate with the owner if driveway closure is required.

10. Where pedestrian walkways exist, they shall be maintained in a safe and passable condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided at all times.

11. This project will affect bus operations, bus routes, bus stops, and para-transit operations. At least two (2) weeks prior to construction, the Contractor shall provide notification of the scope of work, location, detour, proposed closure of any street, traffic lane, sidewalk, or bus stop and duration of project to:

DTS-PTD: 768-8396 and TheBusStop@honolulu.gov
Oahu Transit Services:
Bus Operations: 848-4571 and 848-4565 and Field_Operation_Mgr@thebus.org
Para-transit Operations: 454-5006 and 454-5083

12. The Contractor shall follow the requirements of various permits and Best Management Practices (BMP) during the construction.
13. No work or equipment shall be located or take place within 10 feet of any overhead wires or any HECO utility pole. Should work be required within 10 feet of any overhead wires or any HECO utility pole, refer to HECO Notes 5 and 6.

14. The Contractor is advised that in addition to other Contractors working in the same areas, various utility companies (or their contractors) including Hawaiian Electric Company, Hawaiian Telcom, Oceanic Time Warner Cable, Hawaii Gas, and the Board of Water Supply may be performing work within the project area.

15. The Contractor shall coordinate all work with other Contractors in the areas. In case of unresolved conflict among contractors regarding access or work sites, the Engineer will make the final determination of priorities.

16. Smooth riding connections shall be constructed at all limits of the project, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.

17. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 15 feet of the edge of pavement. This work shall be considered incidental to the various contract items.

18. Demolishing, removing and disposing of existing drainage conduits shall be considered incidental to the various contract items.

19. All necessary permits shall be obtained by the Contractor at his own cost.

20. The Contractor shall comply with the directives of the State of Hawaii Occupational Safety and Health (HIOSH) Law. Any citation (fine) received by the State for noncompliance by the Contractor shall be deducted from the progress payment.

21. All lanes shall be opened to traffic during the morning peak hours from 6:30 a.m. to 8:30 a.m., during the afternoon peak hours from 3:00 p.m. to 6:00 p.m. and off work hours or as directed by the Engineer. Only one lane of highway shall be closed during work hours.

22. The Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at the end of each work day.

23. 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 Right-of-Way Branch at telephone no. 692-7332.

24. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities, curbs, sidewalks, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.

25. All temporary traffic control (TTC) elements, including but not limited to, pedestrian and worker safety, and flagger control, shall conform to the latest adopted version of the Manual on Uniform Traffic Control Devices (MUTCD).

26. The Contractor shall immediately repair any damage to the existing sensor loops and new sensor loops.

27. The Contractor shall make immediate adjustments to any disrupted timing cycles relating to the sensor loops, detectors, or signal pullboxes.

28. All new and existing sign posts within the project limits shall be painted with yellow traffic paint. This work shall be considered incidental to various pavement marking items.

29. The Contractor is reminded to call the Hawaii One Call Center at (866) 423-7287 prior to starting any excavation work.

30. All work specified in the Contract but not listed separately in the proposal schedule shall be considered incidental to the various contract items and shall not be paid for separately.

31. The Contractor shall obtain a Street Usage Permit from the City and County of Honolulu, Department of Transportation Services prior to commencing operations.

32. Archaeological monitoring is required for the work within the 10-foot parcel, where damaged pipe will be replaced as shown on Sheet No. 12. Archaeological monitoring is not required for the work on Kalaniana'ole Highway/West Hind Drive intersection.

LEGEND

- New Pavement/Reconstruction
- D

New Drain Line
- G

New Gas Line
- eh

Existing Electrical Line
- °pp

Existing Power Pole
- °emh

Existing Electric Manhole
- g

Existing Gas Line
- 4

Existing Sewer Line
- t

Existing Telephone/Comm. Line
- d

Existing Drain Line
- ts

Existing Traffic Signal Conduit
- *****

Existing Chain Link Fence
- °tp

Existing Telephone Pole
- °tmh

Existing Telephone Manhole
- w

Existing Water Line
- °wmh

Existing Water Manhole
- °wv

Existing Water Valve Box
- °av

Existing Water Air Valve
- wm

Existing Water Meter
- fh

Existing Fire Hydrant
- °mon

Existing Monument
- p

Existing Traffic Sign
- q

Existing Highway Lighting Standard
- tspb

Existing Traffic Signal Pull Box
- slpb

Existing Street Light Pull Box
- cpb

Existing Comm. Pull Box
- °tsp

Existing Traffic Signal Pole
- °slp

Existing Street Light Pole
- °cmh

Existing Comm. Manhole
- °dmh

Existing Drain Manhole
- °cbmh

Existing Catch Basin Manhole



LICENSE EXPIRES 4/30/18
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, LEGEND & ABBREVIATIONS

KALANIANA'OLE HIGHWAY
DRAINAGE IMPROVEMENTS
Vicinity of Wailupe Place
Project No. 72C-01-13

Date: November 2016

SHEET No. 1 OF 2 SHEETS

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

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 and 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 control standards and regulations of the State Department of Health. The City may require supplementary measures as necessary.
3. No Contractor shall perform any trenching operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural water-courses. Should such violations occur, the cost incurred for any remedial action by the Director, HDOT shall be payable by the Contractor.
4. 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. The Contractor shall apply for a construction permit with a noise pollution control plan if work should extend beyond permitted working hours.

ARCHAEOLOGICAL NOTES:

1. In the event that an archaeological or historic structure within the work area is inadvertently damaged during construction, cease work in the vicinity of the site and notify the Engineer and the State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources of the damage. SHPD will determine the appropriate mitigation measures.
2. In the event that a previously unknown archaeological feature is exposed by construction, cease work in the vicinity of the new feature and notify the Engineer and SHPD of the new discovery.
3. In the event that previously unknown human remains are exposed by construction, cease all work in the area of the remains, and protect the area with an appropriate material. Notify the Engineer and SHPD at 692-8015.
4. If any lava tube is uncovered during earthwork operations, the Contractor shall cease all ground work in the area and immediately notify the Archaeological Monitor and the Engineer. With or without the help of the Archaeological Monitor, the Engineer will assess the situation. If the Engineer has any doubts as to the extent and/or significance of the discovery, the Engineer will contact the appropriate regulatory agency (e.g., State Historic Preservation Division).

PAVING AROUND MANHOLES:

1. The Contractor shall first lower manholes more than 3" prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under various contract items pertaining to manhole adjustments.
2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole which is not rolled by the steel roller.
4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot the area if the fog is too heavy.

IRRIGATION SYSTEM NOTES:

1. The existing irrigation system shown on the plans are from the latest available data, but the accuracy of the information is not guaranteed.
2. The Contractor shall preserve and protect all existing irrigation meters, backflow preventers and mains. The Contractor shall be held liable for any damages incurred to the existing irrigation system as a result of his operations. All damaged portions shall be replaced or repaired in accordance with HDOT standard specifications, at no cost to the State.

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ABBREVIATIONS

AC	Asphaltic Concrete	Lt	Left
bfp	Backflow Preventer	LF	Linear Feet
BL	Baseline	Max	Maximum
BB	Bottom of Bank	Min	Minimum
BMP	Best Management Practices	Mauka	Mountainside
CB	Catch Basin	NTS	Not to Scale
CL	Centerline	No.	Number
cmh	Communications Manhole	Makai	Oceanside
Conc	Concrete	O/S	Offset
CY	Cubic Yard	O.D.	Outside Diameter
DOT	Department of Transportation	pp	Power Pole
Det	Detail	Pvmt	Pavement
DL	Drainline	RCP	Reinforced Concrete Pipe
DMH	Drain Manhole	RPM	Reflective Pavement Marker
Ea	Each	Rt	Right
Esmt	Easement	R/W	Right-of-Way
EP	Edge of Pavement	Sht	Sheet
ES	Edge of Shoulder	S=	Slope
EL	Elevation	SF	Square Feet
Exist	Existing	Std	Standard
GL	Gas Line	Sta	Station
gmh	Gas Manhole	SDMH	Storm Drain Manhole
HDOT	Hawaii Department of Transportation	slp	Street Light Pole
Hwy	Highway	slpb	Street Light Pull Box
HMA	Hot Mix Asphalt	Struct	Structural
Inv	Invert	TB	Top of Bank
		Typ	Typical
		WL	Waterline

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

MINGXUN DING

LICENSED PROFESSIONAL ENGINEER

NO. 9248-C

HAWAII, U.S.A.

LICENSE EXPIRES 4/30/18

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

CD-18

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, LEGEND & ABBREVIATIONS

KALANIANA'OLE HIGHWAY
DRAINAGE IMPROVEMENTS
Vicinity of Wailupe Place
Project No. 72C-01-13

Date: November 2016

SHEET No. 2 OF 2 SHEETS