

GENERAL NOTES:

1. The Scope of Work for this project includes construction of grated drop inlets, drywells, gutters, curbs and drainline; asphalt paving; installation of pavement markings, signing and striping; installation, maintenance and removal of temporary BMPs; Underground Injection testing; and traffic control.

2. The Contractor is reminded of the requirements of Subsection 105.16 (A) - Subcontract Requirements, which requires the Contractor 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: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 1043.11 - 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 concrete pavements, and other structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The Contractor shall make an independent check on the ground by probing and/or with the various utility companies and governmental agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating in the area. Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connection to verify their location and depth prior to excavating for the new lines. 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 Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.

7. The Contractor shall provide and maintain 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.

8. All saw cutting work shall be considered incidental to the various contract items and will not be paid for separately.

9. Smooth riding connections shall be constructed at all times on the 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.

10. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing structures from the damages due to construction. Repairing of any damage shall be at the Contractor's own expense, to the satisfaction of the owner.

11. The Contractor shall clean and remove all accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.
12. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, and any debris shall be considered incidental to the various contract items and will not be paid for separately.

13. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be stable, firm and slip-resistant and shall be Americans With Disabilities Act compliant (This only applies if existing surface is non-ADA compliant). This work shall be incidental to the various contract items and will not be paid for separately.

14. The Contractor shall remove and dispose of all existing raised pavement markers, thermo line marking, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately. These work items shall be considered incidental to the various contract items and will not be paid for separately.

15. The Contractor shall adjust flush to finish grade all manhole, valve, pullbox, and handhole frames and covers, including those not shown on the plans, if there is a change in grade due to construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract items.

16. The Contractor will be allowed to contraflow traffic. Lane closures or detours that slow down traffic shall not occur during peak hours (6:00 a.m. to 8:30 a.m. and 3:30 p.m. to 6:00 p.m.)

17. Unprotected dropoffs greater than 2 inches shall not be allowed during non-working hours, except where approved by the Engineer in writing.

18. 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.

19. After the project is completed, the Contractor shall restore grades and ground cover disturbed as a result of the project to a condition equal or better than existing before such damage or injury was done.

20. Existing utilities shall remain in service and in place at all times. If relocation of the existing utilities is required by the Contract Documents or for the Contractor's convenience, interruption of service shall be kept to a minimum and shall be done at the Contractor's expense with the approval of the affected utility company.

21. The Contractor shall verify 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.

22. All construction work is to be constructed in accordance with the publications "Hawaii Standard Specifications for Road, Bridge and Public Works Constructionon 2005" and its amendments.

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11B-01-20	2022	3	34

RANDALL M. UHASEKI

LICENSED PROFESSIONAL ENGINEER

No. 7289-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature

04/30/22

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GENERAL NOTES

KUAKINI HIGHWAY DRAINAGE IMPROVEMENTS

Vicinity of Mile Post 114

Project No. 11B-01-20

Scale: None

Date: Mar. 2021

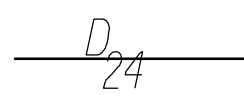
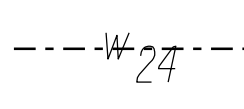
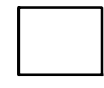
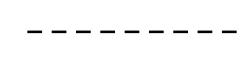
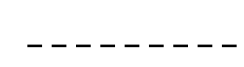
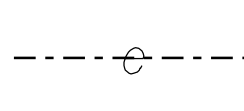

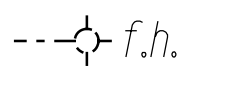
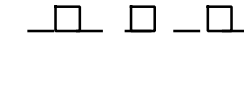






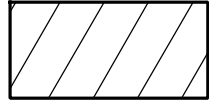
SHEET No. G-2 OF 11 SHEETS

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GENERAL NOTES (Cont.):

23. Contractor shall not perform any construction operation that causes falling rocks, soil or debris in any form to fall, slide or flow into existing County 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.
24. Tack coat shall be incidental to the various asphalt concrete pavement items.
25. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
26. Contractor shall notify the State Construction Inspector before commencement of work on any site with trees in close proximity (20'±).
27. All existing monuments, right-of-way, centerline, construction, and NGS marks (horizontal and vertical in the NGS database) located within the State of Hawaii right-of-way, must be preserved and displayed on the plans. All monuments shall be preserved during all design and construction phases. If monuments are disturbed or destroyed, the Cadastral Engineering Section (HWY-DC) shall be notified prior to groundbreaking. Reconciliation to the Right-of-Way Baseline and/or a boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. HWY-DC shall be contacted for guidelines and procedures. As to construction, a State of Hawaii Licensed Surveyor shall perform the location of the replaced monument. The DOT Standard Plans & Specifications shall be referenced for the monument type and materials. Any NGS vertical marks that are deemed necessary for relocation due to construction shall follow the NGS benchmark reset procedures written by Curtis Smith dated September 2010 or newer. All work must be done by an electronic digital level that is acceptable by NGS for second-order class one or higher work. The Surveyor must use two one-piece invar barcode rods with current certifications with struts with 15 lbs tuning plate or turtles; and/or turning pin with driving cap and temperature readings. Contact NGS prior to any work to ensure equipment meets reset specifications. A State of Hawaii Licensed Surveyor shall perform the relocation. All work must be submitted both in electronic and hard copy formats to NGS and HWY-DC. Payment for all monument work shall be considered incidental to the various contract items.
28. Work may be performed only between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday, except holidays, unless otherwise permitted by the Engineer.
29. All necessary permits for work within the jurisdiction of the County of Hawaii shall be obtained by the Contractor at his own cost.
30. Shoring and placement of metal plates with non-skid surface shall be designed by a Professional Engineer licensed in the State of Hawaii.
31. The Contractor shall obtain a Community Noise Permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, Hawaii, ph # 586-4700. This shall be considered incidental to the various contract items and will not be paid for separately. <https://health.hawaii.gov/irhb/noiseforms/>
32. 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 the various contract items and will not be paid for separately.

LEGEND:


-  New Drain Line
-  Existing Water Line
-  New Drain Inlet
-  Existing Edge of Shoulder (es)
-  Existing Edge of Pavement (ep)
-  Existing Electrical Line
-  Existing Electric Manhole
-  Existing Fire Hydrant
-  Existing Guardrail (gr)
-  Existing Highway Lighting Standard/Utility Pole
-  Existing Monument
-  Existing Storm Drain Manhole
-  Existing Telephone Line
-  Existing Telephone Manhole
-  Existing Utility Pole
-  Pavement Reconstruction

ABBREVIATIONS:

- A.C./AC Asphalt Concrete
- APPROX. Approximate
- # Baseline
- BC Bottom Curb
- Beg Beginning
- BW Bottom Wall
- CL Centerline
- C Chord
- CONC. Concrete
- CMP Corrugated Metal Pipe
- D Diameter or Drain
- D.I. Drain Inlet
- DIA. Diameter
- E/ELEC. Electric
- ELEV. Elevation
- EP Edge of Pavement
- F.H. Fire Hydrant
- FT Foot/Feet
- GDI Grated Drain Inlet
- GND. Ground
- GR Guardrail
- HGL Hydraulic Grade Line
- HMA Hot Mix Asphalt
- HORIZ. Horizontal
- HWY. Highway
- INV. Invert
- L Length
- LF Linear Foot
- LT. Left
- Max. Maximum
- MH Manhole
- Min. Minimum
- O.C. On Center
- O/H Overhead
- O/S Offset
- PAV'T. Pavement
- PC/POC Point of Curvature
- PCC Portland Cement Concrete
- PT/POT Point of Tangency
- R Radius
- RCP Reinforced Concrete Pipe
- R/W Right of Way
- RT. Right
- REF. Reflector
- SHT. Sheet
- S.L. Street Light
- STA. Station
- TC Top Curb
- T/TEL. Telephone/Tangent
- TP Top Pipe
- TW Top Wall
- U.P. Utility Pole
- U.P./S.L. Utility Pole w/ Street Light
- VERT. Vertical
- W Water
- WL Water Line

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11B-01-20	2022	4	34

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
Nº	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

R. Urasaki 04/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES
LEGEND AND ABBREVIATIONS

KUAKINI HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of Mile Post 114
Project No. 11B-01-20

Scale: None Date: Mar. 2021

NOTES FOR WORK WITHIN COUNTY RIGHT-OF-WAY:

1. All work shall be done in accordance with the County of Hawaii, Department of Public Works (DPW), "Standard Specifications for Public Works Construction," dated September 1986, as amended, and "Standard Details for Public Works Construction," dated September 1984, as amended.

2. The Contractor shall verify the location of all existing utilities, whether shown on the plan or not, and shall be responsible for the repair or replacement of same in the event of damages due to his construction practices. The Contractor shall coordinate his work with the respective utility companies.

3. The Contractor shall provide and install all traffic control devices in conformance with the current edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," and as directed by the Department of Public Works.

4. The Contractor shall notify the Department of Public Works 48 hours before the commencement of any utility line work to schedule a field review and secure approval of the proposed utility line location within the County Right-of-Way.

5. The proposed utility line location shall be laid out in the field prior to the conducting of the field review by the Department of Public Works.

6. Field adjustments shall be made as directed by the Department of Public Works prior to the commencement of any utility line work.

7. The required permit, under Chapter 22, Article 4, Division 1 of the Hawaii County Code, shall be obtained from the Department of Public Works by the Contractor for work within the County Right-of-Way.

8. The Contractor shall provide at least one (1) lane for traffic movement at all times.

9. The existing pavement shall be saw-cut before commencement of trenching work.

10. Any pavement outside the contract zone limits damaged as a result of construction operations shall be restored to its original condition, or better, as directed by the DPW.

11. A temporary cold mix patch shall be applied immediately upon completion of the backfilling operation and shall be maintained by the Contractor until a permanent patch is authorized by the Department of Public Works.

12. No material, except the trench excavated material, shall be stockpiled closer than six (6) feet from the existing edge of pavement.

13. No construction equipment shall be parked within the road Right-of-Way in such a manner that the equipment will obstruct the normal movement and sight distance of the driving motorist, except during actual working hours.

14. Except during actual working hours, all signs that do not pertain to the construction activity, such as "Men Working" and "Flagman Ahead" shall be covered or laid down. however, all signs necessary for the safety of the public shall be maintained.

15. Any pavement markings, structures, and appurtenances (within or outside of the contract zone limits) damaged and/or worn away under the permit shall be repainted or reconstructed as directed by the Department of Public Works.
16. No trenching shall be left open for more than five (5) working days.

17. Should trenching occur through an existing sidewalk, or should damages occur to the sidewalk as a result of any construction work, the following procedure shall be utilized to repair the sidewalk.

A. All Portland cement concrete to be removed shall first be cut with a concrete saw that has a diamond carborundum abrasive wheel. Those cuts shall be made to a depth equal to at least one-fourth of the depth of the slab, or enough as is deemed necessary by the Department of Public Works, to permit breaking out the balance of the concrete without spalling off the exposed edges of the slab left in place.

B. If any concrete block is touched, the whole block shall be removed and later replaced, unless a minor variation is authorized by the DPW or its Representative.

C. Any damages to adjacent areas due to settlement or to any other effects whatsoever caused by the construction work shall be properly repaired and corrected.

D. All other incidental work shall be satisfactorily performed to effect the proper restoration of the sidewalk area.

E. Should damage to a sidewalk, curb and/or gutter occur at a location where a curb ramp should exist, or to a driveway that does not meet with the requirements of the Americans with Disabilities Act (ADA), repair work shall include the construction of a curb ramp, or reconstruction to the driveway such that the repair work complies with the ADA and meets with the approval of the DPW.

18. When work interferes with a sidewalk, the applicant shall provide for the safe passage of pedestrians including the disabled around or through the work area.

19. No work within the County Right-of-Way shall be done on Saturdays, Sundays and Holidays anytime without prior approval from the Department of Public Works. Right-of-Way work on normal days shall be limited between the hours of 7:00 a.m. to 3:30 p.m.

20. The Permittee shall maintain, to the satisfaction of the Department of Public Works, the area worked within the Government Right-of-Way including any repairs to pavement and shoulder damaged as a result of the installation work, for a period of one (1) year from the date of final inspection. The Permittee shall undertake repairs expeditiously, whenever directed by the Department of Public Works during the maintenance period.

ORIGINAL PLAN

SURVEY PLOTTED BY

DATE

NOTED BY

DESIGNED BY

QUANTITIES BY

CHECKED BY

No.

RANDALL M. UHASEKI

LICENSED PROFESSIONAL ENGINEER

No. 7289-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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Vicinity of Mile Post 114

Project No. 11B-01-20

Scale: None

Date: Mar. 2021

SHEET No. G-4 OF 11 SHEETS

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