

GENERAL NOTES

1.

The project includes widening Kuhio Highway between Kuamoo Road and Temporary Kapaa Bypass Road from three lanes to four lanes. The project also includes extending the right turn lane along Kuamoo Road and installing a right turn lane from Kuhio Highway to Kuamoo Road. Associated work includes installing guardrails, sidewalks, curb ramps, pavement markings, signs, culvert extensions, water line relocation, landscaping, and traffic control. The project also includes relocating overhead utility lines along Kuhio Highway from the vicinity of Kuamoo Road to the vicinity of Temporary Kapaa Bypass Road.

2.

The Contractor is reminded of the requirements of Subsection 105.16 (A) - Subcontract Requirements, 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: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - 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, buried railroad tracks, 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.

Existing drainage system will be functional at all times during construction. The Contractor is to furnish material, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.

8.

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.

9.

All slurry and cutting water shall be vacuumed up immediately during saw cutting work. All saw cutting work shall be considered incidental to Roadway Excavation.

10.

Design criteria for extension to existing reinforced concrete box culverts:
- I. Loads:
- A. Superimposed Dead Loads:
1. Highway Area:
- a. Soil:

125 pcf

b. Pavements:

6"t (max) asphalt concrete
- B. Live Loads:
1. Vehicle Loads: AASHTO HL93
- II. Materials:
- A. Poured-in-Place Concrete:
1. Headwall, Misc.:

f'c=3,000 psi
- B. Precast Concrete:
1. Precast Concrete - Box Culvert:

f'c=4,000 psi
- C. Reinforcing Steel:
1. ASTM A615, Grade 60 (Typical)
- III. References:
- A. American Association of State Highway and Transportation Officials (AASHTO) LFRD Bridge Design Specifications, 3rd Edition (2004).
- B. ACI 318.
11. Smooth riding connections shall be constructed at all times on the project, including the beginning and end of the project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer.

12. 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.

13. 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.

14. Removal and disposal of existing curb and gutter, curb, sidewalk and any debris shall be considered incidental to Roadway Excavation and will not be paid for separately. Cold plane material shall be retained as property of the state. Contractor shall deliver these materials to the HDOT Highways baseyard stockpile area. This work shall be considered incidental to the various contract items and will not be paid for separately.

15. Concrete sidewalk shall be reinforced with 6x6 W1.4xW1.4 welded wire fabric. Welded wire fabric shall be supported on concrete blocks.

16. Dressing of sidewalk shall consist of clearing and grubbing, grading, reshaping and compacting with suitable material the area adjacent to the improvement as shown on the plans and/or as directed by the Engineer and shall be considered incidental to sidewalk.

17. Provide smooth transition where new sidewalk construction meets the existing grade or sidewalk.

18. All curb angle points within the curb ramps shall be rounded with R=6".

19. 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 all contract items and will not be paid for separately.

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

21. Removal of existing crosswalk marking shall be incidental to Crosswalk Marking.
- | | |
|----------|---|
| 11/12/19 | △ Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19 | △ Reissuing plan for legibility only. No design changes have been made. |
| DATE | REVISION |
-
- THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION APRIL 30, 2020 LIC. EXP. DATE
- STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NOTES

KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
Scale: Date: July 2019

SHEET No. 11 OF 9 SHEETS
- ADD.4

GENERAL NOTES (Cont.)

22. All curb ramp transitions (walkways, curbs, gutter) shall be considered incidental to Concrete for Sidewalk for Kuhio Highway.
23. The Contractor shall adjust flush to finish grade all manhole, valve, pull box, 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. All construction work shall be done in accordance with the standards and specifications of the HDOT as amended, unless otherwise specified by the contract plans and specifications.
29. 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 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.
30. Tack coat shall be incidental to the various asphalt concrete pavement items.
31. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
32. Contractor shall notify the State construction inspector before commencement of work on any site with trees in close proximity (20'±).
33. Contractor shall comply with conditions as stated in the project NPDES Notice of General Permit Coverage (NGPC), or NPDES Individual Permit.
34. The Contractor must notify the Cadastral Section prior to removal of any State Survey Monument (Brass Disk) so that Cadastral can reference the monument prior to demolition of the existing monument. The Contractor shall bear all costs involved in restoring the State Survey Monuments which are affected by their work.
35. Work may be performed only between the hours of 8:00 p.m. and 4:30 a.m., Monday through Friday, except holidays, unless otherwise permitted by the Engineer. The Contractor is responsible for obtaining Noise Variance Permit from State DOH prior to conducting Night Work operations. Day work will be allowed Monday-Friday, excluding Holidays from 8:30am-3:00pm as long as there are no lane closures. Any deviations from this condition will need the Engineer's approval in writing.
36. All necessary permits including road permit for work within the jurisdiction of the County of Kauai shall be obtained by the Contractor at his own cost.
37. All work of toning, probing, hand digging and all other means of utility verification for the Sandwich Isles Communications (SIC) fiber-optic duct lines shall not be paid for separately, but shall be considered incidental to the various contract items. Contractor shall contact SIC Customer Service Center at 524-8400 or toll free at 1-888-995-7274.
38. All cold planing work shall be followed immediately with paving, temporary striping and re-establishment of the traffic loops before reopening the lanes to traffic. The Contractor may use temporary pole mounted presence detectors to replace any loops taken out of service. The cost for temporary detector shall be considered incidental to pavement work.

LEGEND

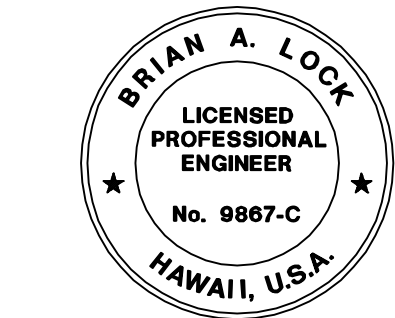
	New Pavement Areas - (See Typical Sections for Pavement Structures)
	New P.C.C.
--- E ---	New Electrical Line
--- e ---	Existing Electrical Line
•JP	Relocated Joint Pole
°jp	Existing Joint Pole
•PP	Relocated Power Pole
°pp	Existing Power Pole
°emh	Existing Electrical Manhole
--- t ---	Existing Telephone Line
°tp	Existing Telephone Pole
°tmh	Existing Telephone Manhole
—— SC ——	New Signal Corps Line
—— sc ——	Existing Signal Corps Line
—— sic ——	Existing Sandwich Isles Communication Line
°sicismh	Existing Sandwich Isles Communication Manhole
□ cpb	Existing Cable TV Pullbox
—— c ——	Existing Cable TV Line
—— w12 ——	Existing 12" Water Line
°wmh	Existing Water Manhole
°av	Existing Water Air Valve
°wv	Existing Water Valve Box
□wm	Existing Water Meter
•fh	Existing Fire Hydrant
— — — — — —	New Guard Rail
— — — — — —	Existing Guard Rail
-----	New Right-of-Way
-----	Existing Right-of-Way
----- S12 -----	New 12" Sewer Line
----- s12 -----	Existing Sewer Line And Size
°smh	Existing Sewer Manhole
--- g6 ---	Existing 6" Gas Line
°gv	Existing Gas Valve Box
°gmh	Existing Gas Manhole
•MON.	New Monument
•mon.	Existing Monument

<u>24" RCP</u>	New 24" RCP Drain Line
---- d24 ----	Existing 24" Drain Line
•SDMH	New Storm Drain Manhole Frame & Cover
°sdmh	Existing Storm Drain Manhole
□GDI	New Grated Drop Inlet
□gdi	Existing Grated Drop Inlet
CB	New Catch Basin
cb	Existing Catch Basin
↳	New Traffic Sign
↳	Existing Traffic Sign
○	New Highway Lighting Standard
○	Existing Highway Lighting Standard
✉	New Traffic Signal Pullbox
✉	Existing Traffic Signal Pullbox
⌂	Existing Traffic Signal Control Box
⊗	Existing Traffic Signal Pole
□□□	New Loop Detector
□□□	Existing Loop Detector
<u>14.50</u> /	New Pavement Grade
<u>14.50±</u> /	Existing Pavement Grade

ABBREVIATIONS

A.C., a.c.	Asphalt Concrete
#	Baseline
E.P.	New Edge Of Pavement
E.S.	New Edge of Shoulder
e.p.	Existing Edge Of Pavement
e.s.	Existing Edge of Shoulder
N.B., n.b.	Northbound
P.C.	Point Of Curvature
P.C.C.	Point Of Compound Curvature
P.C.C.	Portland Cement Concrete
P.I.	Point Of Intersection
P.O.C.	Point on Curvature
P.T.	Point Of Tangency
R	Radius
S.B., s.b.	Southbound
S.E.	Superelevation

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<u>NOTES</u>
<u>KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD Fed. Aid Proj. No. NH-056-1(50)</u>
Scale: Date: July 2019
SHEET No. N2 OF 9 SHEETS

11/12/19	△ Reissuing plan for legibility; revised Note 35
9/20/19	△ Reissuing plan for legibility only. No design changes have been made.
DATE	REVISION

WATER CONSTRUCTION NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O.ADD.6	244

- ORIGINAL
PLAN

SURVEY PLOTTED BY

DATE

NOTE BOOK

DRAWN BY

No.

CHECKED BY

QUANTITIES BY

1. Unless otherwise specified, all materials and construction of water facilities and appurtenances shall be in accordance with the "Water System Standards, 2002" as adopted by the Department of Water, County of Kauai, including all subsequent amendments and additions.

2. All required project submittals (materials, shop drawings, chlorination plan, etc.) shall be approved by the Department Construction Management Division before a pre-construction conference can be scheduled. Once all project submittals have been approved by DOW Construction Engineer, the DOW Construction Engineer will notify the Contractor that a pre-construction conference can be arranged. The Contractor shall arrange a pre-construction conference at least ten (10) calendar days before construction and shall notify the Department of Water at least three (3) working days prior to start of construction.

3. The Contractor shall submit the names and telephone numbers of its authorized job superintendent and at least three (3) additional persons to contact in case of an emergency during non-working hours.

4. The Contractor shall notify the Department of Water at least 24 hours prior to any trenching, pipe laying, backfilling, testing or disinfection activities to ensure that inspection services will be available.

5. All materials (pipe, lubricants, paints, sealants, form oil, concrete admixtures, etc.) in direct contact with the potable water shall have national sanitation foundation (NSF) certifications. The Contractor shall submit these certifications to the Department of Water for review and approval prior to its application.

6. The location of existing water mains and appurtenances shown on the plans are approximate only. The Contractor shall verify the exact locations in the field. Excavation around any existing water main shall be done by hand.

7. The Contractor shall provide unobstructed access to existing hydrants, valves, and water meters at all times.

8. The Contractor shall secure all excavations in accordance with OSHA regulations.

9. There shall be no physical connection between a public or private potable water system and a non-potable water system, sewer, or appurtenance thereto which could permit the passage of any sewage or polluted water into the potable water supply.

10. Trench excavation, backfilling in lifts, and repaving shall conform to the "Hawaii Standard Specifications for Road and Bridge Construction, 2005" as amended.

11. Warning tape shall be in accordance with Division 200, Section 212.08 of the "Water System Standards". The warning tape shall be four mil thick, non-metallic, acid and alkali resistant polyethylene, and 6-inches wide with minimum strength of 1,750 psi lengthwise and 1,500 psi crosswise. Tape color shall be "safety precaution blue" and shall bear a continuous printed inscription "CAUTION WATER LINE BURIED BELOW". Inscription shall be 2-inches high, black text.

12. All hydrants shall receive a minimum SSPC SP3 surface preparation and coated in accordance with Division 200, Section 206.01 of the "Water System Standards".

13. Unless otherwise directed, prior to the connection of any pipelines and/or laterals to the existing main, the pipelines/laterals installed shall be cleaned, pressure tested, chlorinated, flushed, and sampled in accordance with Division 300, Sections 302.27 to 302.29 of the "Water System Standards".
Water samples shall be tested for total coliforms by a laboratory certified by the State of Hawaii to perform coliform analysis. Presence of coliform bacteria is unacceptable.
In addition to the test for coliforms, a separate test for heterotrophic plate count (HPC) shall be conducted. The HPC count shall be less than 300 CFU/mL.
Prior to chlorination, a water chlorination and sanitation contractor with a C-37D license shall submit a chlorination plan with water source, injection points, sampling points, and procedure clearly defined for approval by the DOW.
The tested pipelines and/or laterals must be connected to the existing DOW system within 14 calendar days of pulling the first disinfection sample tested by a certified laboratory. The Department of Water will require the Contractor to redo the cleaning, pressure testing, and/or disinfection of the pipelines and/or laterals at the Contractor's expense if the connection is not completed within these 14 calendar days.

14. Polyurethane foam "pigs" shall be "pushed" through the length of the installed pipeline using pressurized water.

15. All connections shall be scheduled in coordination with the Department of Water.

A. An advance deposit is required for operating valves, flushing lines, and notifying consumers affected by a water shutdown during connections. The Contractor will be charged the actual cost.

B. The Contractor shall place the deposit prior to scheduling the connection date.

C. Shutdown connections shall be scheduled on Tuesdays through Thursdays. No connections shall be scheduled on Mondays, Fridays, weekends, and holidays, or from December 18 - January 8 of each year.

D. All materials shall be on hand and approved by the Engineer prior to scheduling the connection date.

E. Pumps used to de-water the connection area shall be operated in the presence of the engineer prior to scheduling the connection date.

F. All connections shall be performed in the presence of the Engineer.

G. No live taps shall be scheduled from December 24 - December 31 of each year.

16. In order to prevent damage to the polyethylene encasement from excessive handling, the polyethylene encasement shall be installed around the barrel of the ductile iron pipe at its final location along the trenchline. The polyethylene encased pipe shall be lifted using a fabric type sling or a suitably padded cable or chain to prevent damage to the polyethylene.

17. The Contractor shall take all necessary compaction tests while the waterline trench is being backfilled and while the subbase/basecourse is being placed. If the test results indicate that additional compaction is required, the corrective work shall be completed before any additional trench excavation or placing of subbase/basecourse is allowed.
The Contractor shall retain the services of a registered Geotechnical Engineer for quality control. The compaction test results shall be certified by the Geotechnical Engineer and submitted to the Department of Water, State Highways Division (for work done within State R/W), and the Department of Public Works (for work done within County R/W). The Geotechnical Engineer shall certify that the compaction results meet the requirements of the current Standard Specifications for Road and Bridge Construction.

18. The Contractor shall connect all existing consumer piping to the new service laterals. The Department of Water will transfer the existing water meters only.

19. All fittings shall be mechanical joint (MJ) at each end unless otherwise noted. "Megalug" retainer glands shall be used with all mechanical joint fittings and valves used in connecting new water mains to existing water mains unless otherwise noted.

20. All water valves that will be abandoned in place shall be placed in the "closed" position. Remove top section of valve box and concrete settlement slab. Fill remainder of valve box with concrete. Place backfill and repair pavement section to applicable State or County Standards. Backfill to finish grade in road shoulder area.

21. The Contractor shall obtain all applicable Department of Health permits prior to the start of construction. Permits include, but are not limited to, National Pollution Discharge Elimination System (NPDES) permits for storm water, hydrostatic test, dewatering, and for construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre of total land area.
The Contractor shall be responsible for the proper disposal of storm water discharges and effluent associated with construction activities including hydrotesting and disinfection operations, to safeguard public health and safety in accordance with applicable Department of Health requirements. All permits and licenses for storm water and construction water disposal, including all application, charges, fees, and taxes, are the responsibility of the Contractor.

22. The Contractor is responsible for dewatering trench as necessary where groundwater is encountered. All associated costs for dewatering shall be borne by the Contractor.

* For Water Notes Cont., See Sht. N4

THESE PLANS HAVE BEEN PREPARED UTILIZING INFORMATION PROVIDED BY THE PROJECT CONTRACTOR. THE UPDATED CONSTRUCTION INFORMATION DEPICTED HEREIN HAS NOT BEEN VERIFIED FOR ACCURACY AND COMPLETENESS. NO REPRESENTATION IS BEING MADE TO ITS VALIDITY.

APPROVED

Manager and Chief Engineer
Department of Water,
County of Kauai

Date

11/12/19

△ Reissuing plan for legibility only. No design changes have been made.
9/20/19
△ Reissuing plan for legibility only. No design changes have been made.

DATE

REVISION

"AS-BUILT"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
NOTES	
KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD Fed. Aid Proj. No. NH-056-1(50) Scale: Date: July 2019	
SHEET No. N3 OF 9 SHEETS	

C.O.ADD.6

WATER CONSTRUCTION NOTES (CONT.)

23.

The use of known sewer pump trucks is prohibited for DOW projects for any use, including but not limited to dewatering and testing of new facilities.
24.

The Contractor shall verify outside diameter of all existing asbestos- cement (AC) waterlines to be connected. Contractor shall verify use of proper gaskets prior to connection. AC pipe and gasket information shall be submitted to Engineer for approval.
25.

All removal, disposal, and connection work that involves asbestos pipe/material shall be done in the presence of or by a licensed asbestos Contractor. The licensed asbestos Contractor shall submit their plan for all associated removal, disposal, and connection work for the project to DOW for review and approval prior to conducting the work.
26.

All connections to existing AC pipe shall be at the nearest AC pipe joint. AC pipe shall be removed by entire length(s) to facilitate the connection. Cutting of AC pipe is prohibited.
27.

The Contractor shall follow all applicable OSHA, HIOSH, and Federal regulations in handling and disposal of asbestos-cement pipe. Disposal of the pipe shall be at an approved asbestos material disposal site.
28.

All waterworks brass fittings shall be in compliance with the amended Section 1417 of Safe Drinking Water Act (SDWA) which takes effect on January 4, 2014. The amendment includes a change to the definition of "lead-free" by reducing lead content from 8% to a weighted average of not more than 0.25% in the wetted surface material. All waterworks brass fittings installed for potable water service on January 4, 2014 and beyond shall conform to the amended definition of "lead-free".
As indicated in Section 211 of Water System Standards - Brass Products, all brass fittings shall conform to NSF Standard 61 and Section 1417 of the Safe Drinking Water Act (SDWA), in addition, all brass fittings shall conform to NSF Standard 372.
29.

The Contractor shall install water facilities only after reaching final subgrade or higher. The Department of Water will not allow installation of any water facilities until the final subgrade layer at minimum has been achieved.
30.

Prior to installation of new water lines and/or facilities, the Contractor shall have all facilities surveyed and staked out by a licensed Surveyor and the Contractor shall expose, verify, and backfill all existing underground utilities and structures in close proximity to crossings and connections prior to excavation of pipeline trench. The Contractor shall provide the licensed Surveyor cut sheet and the probing information to the DOW Construction Engineer for review and approval before moving forward with installation via the submittal review process.
31.

The Department shall be provided twenty (20) working days for all submittal reviews from the time of submission by the Contractor.
32.

Unless otherwise specified, all ductile iron pipes, valves, and fittings shall be encased in one layer of 8 mil minimum thickness polyethylene material in accordance with ANSI A-21.5 and AWWA C105. The polyethylene encasement film shall be manufactured from virgin polyethylene and shall consist of three layers of co-extruded linear low density polyethylene (LLDPE), fused into a single thickness of not less than 8 mils. The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of an antimicrobial to mitigate microbiologically influenced corrosioin and a volatile corrosion inhibitor to control galvanic corrosion. Polyethylene material shall have permanent markings per AWWA C105.

Copper service laterals shall be encased with polyethylene wrap from the connection to ductile iron pipes to the angle ball valve located in the water meter box.

NOTES FOR CONSTRUCTION
WITHIN COUNTY RIGHT-OF-WAY

1.

All pavement shall be restored to its original condition in accordance with Hawaii Standard Specifications For Road and Bridge Construction (2005), and its amendments with 2" asphalt concrete and 8" base course and the "Standard Details For Public Works Construction, September 1984 and its amendmments of the Department of Public Works, City and County of Honolulu and the Counties of Kaua'i, Maui and Hawai'i."
2.

The contractor shall provide, install, maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of the public traffic. All such protective facilities and precautions to be taken shall conform with rules and regulations governing the use of traffic control devices at work sites on or adjacent to public streets and highways adopted by the highway safety coordinator and US Federal Highway Administration manual on uniform traffic control devices for streets and highways dated 2003 and its amendments.
3.

The contractor shall, whenever necessary, properly sheet and brace all excavations to render it secure and shall remove all such sheeting and bracing before completion of the backfill for water mains. The minimum cover requirements (from top of pipe to finished grade over pipe) is three (3) feet.
4.

A. A permit shall be obtained by the contractor from the Department of Public Works, at the contractor's expense.

B. Driveways shall be kept open unless owners of the abutting lots using these right-of-way are otherwise provided for satisfactorily.

C. All work including repair of damaged pavement and shoulders shall be inspected and approved by the Department of Public Works. All unapproved work shall be considered unacceptable and shall be reworked and corrected as directed by the Department of Public Works, at the contractor's expense.

D. Damaged shoulders shall be restored to a condition equal to or better than existing condition.

E. Work on a public street area may be performed only between the hours of 8:00 a.m. to 3:30 p.m. Monday through Friday, except on holidays recognized by the county of Kauai, unless otherwise permitted by the Department of Public Works, County of Kauai.

F. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be opened to public vehicular and pedestrian traffic.

G. No material and/or equipment shall be stockpiled or otherwise stored within county right-of-way except at locations designated in writing and approved by the county engineer.

H. The contractor shall conduct his operations so as to offer the least possible obstructions and inconvenience to the public and he shall have under construction no greater length or amount of work that he can execute properly with due regard to the rights of the public.

I. All existing drainage flow conditions shall be maintained.
5.

The contractor shall hold a pre-construction meeting with the construction-design section of the Department of Public Works before commencing any work.

33.

All design consultant and construction contractor staffing will be required to utilize the Department of Water's PMWEB platform during construction management of the project.

SANDWICH ISLES COMMUNICATIONS, INC NOTES

1.

The locations of existing utilities are approximate only. The contractor shall exercise caution and shall maintain proper clearances whenever construction crosses or is in close proximity to sandwich isles communications, inc. (SIC) facilities.
2.

Prior to excavating the contractor shall call into Hawaii's one call center and shall comply with Hawaii Revised Statues Chapter 269e. Contact Hawaii one call ay 1-866-423-7287.
3.

If required, adjustment shall be made to new construction to provide required clearances from SIC facilities.
4.

A SIC inspector or designated representative is required to be present during a breakage info or entry into any structre or conduit system that contain SIC facilities. Temporary duct or cable support shall be provided wherever necessary or required by SIC inspector.
5.

The contractor shall notify SIC customer service at least 72 hours prior to excavation, bracing or backfilling, of SIC facilities. Contact SIC customer service at 1-888-995-7274.
6.

When excavation is adjacent to, above or below SIC facilities, the contractor shall:

A. Sheet and/or brace the excavation to provide slides, cave-ins, or settlements to ensure no movement or impact to SIC facilities.

B. Support existing structures and/or facilities with beams, struts, or underpinning while excavating around or beneath them to prevent any movement
- THESE PLANS HAVE BEEN PREPARED UTILIZING INFORMATION PROVIDED BY THE PROJECT CONTRACTOR. THE UPDATED CONSTRUCTION INFORMATION DEPICTED HEREIN HAS NOT BEEN VERIFIED FOR ACCURACY AND COMPLETENESS. NO REPRESENTATION IS BEING MADE TO ITS VALIDITY.
- APPROVED
- County Engineer
County Of Kaua'i
(For Work Within the County Right of Way)
- Date
- Chief, Division of Wastewater Management
(For Work Involving Sewer Lines and Appurtenances)
- Date
- Manager and Chief Engineer
Department of Water,
County of Kauai
- Date
-
- THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

WILSON OKAMOTO CORPORATION LIC. EXP. DATE APRIL 30, 2020
- | | |
|---|-----------------|
| STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION | |
| NOTES | |
| KUHIO HIGHWAY SHORT-TERM
IMPROVEMENTS KUAMOO ROAD
TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50) | |
| Scale: | Date: July 2019 |
| SHEET No. N4 OF 9 SHEETS | |
- "AS-BUILT"
- C.O.ADD.7
- | | | |
|------------------|-------------------|------|
| ORIGINAL
PLAN | SURVEY PLOTTED BY | DATE |
| | DRAWN BY | |
| | TRACED BY | |
| | CHECKED BY | |
| NOTE BOOK | NOTES BY | |
| | QUANTITIES BY | |
| No. | | |

SEWER NOTES

1. In the event that any changes in alignment or grade for the proposed sewer mains and laterals are required due to unforeseen conflicts, the Contractor shall notify the Owner's Representative who in turn will be responsible for the required changes.

2. Minimum slope for all sewer laterals shall be 1.00 percent unless otherwise specified on the plans. As-built drawings showing lateral location, vertically and horizontally shall be provided.

3. The Contractor shall verify the location and invert of all existing utilities whether shown or not shown as required.

4. Pipeline inverts shall be installed at a constant slope and on a straight line connecting the invert elevations at manholes.

5. Crushed rock cradle shall be required for all sewer lines, except in area of unsuitable soils, the Owner's Representative will determine the pipe support required.

6. For the construction and installation of sewer lines, sewer laterals, sewer manholes, and sewer connections, the Contractor shall refer to the County of Kauai's Sewer Design Standards dated June 1973, Standard Details for Public Works Construction dated Sept. 1984 as amended by the Department Public Works , City and County of Honolulu, and the Counties of Kauai, Maui, and Hawaii, and the "Hawaii Standard Specifications for Road and Bridge Construction, 2005" and its amendments.

7. Plastic sewer pipes and fittings shall be PVC (polyvinyl-chloride), extra strength bell and spigot, and conform to ASTM Designation D3034.73 with an SDR of 35.

8. Section 706.09 PVC Pipe for Sewer System of the "2005 Standard Specifications for Road and Bridge Construction" is the specifications for the pipe with modifications as follows:

A. Bedding and the first lift of backfill from the bottom of the pipe to 6 inches above the pipe barrel shall be crushed rock ASTM Gradation No. 67. The minimum thickness of the bedding below the pipe shall be 4 inches. Bedding shall be compacted to a relative compaction of not less than 90 percent.

B. The trench shall be backfilled only to a height of 6 inches above the crown of the pipe. Further backfilling of the trench will only be permitted after the alignment and grade of the pipe has been inspected and passed. The Contractor will provide proper facilities for access and inspection, including clearing the pipe of all dirt, joint compound, and superfluous or foreign material.

C. No base course for roadways shall be placed until sewer line within said roadway has been inspected and passed. The Contractor shall provide proper facilities for access and inspection, including clearing the pipe of all dirt, joint compound, and superfluous or foreign material.

D. Maximum allowable vertical pipe deflection (reduction in vertical inside diameter) shall be 5 percent. Deflection shall be checked by the Contractor in the presence of the Inspector by using an approved Deflectometer, calibrated television, properly sized "Go, No-Go" mandrel or sewer ball. For the purpose of deflection measures, the base inside diameter without deflection are provided as follows:

SIZE	BASE I.D.
6"	5.9125"
8"	7.92"
10"	9.90"
12"	11.78"

E. Locations with excessive deflection shall have the pipe replaced and retested.

F. PVC pipe connection to manholes shall be made with elastomeric water seal stop or seal.

CONSTRUCTION NOTES FOR TRAFFIC CONTROL PLAN

1. The permittee shall make minor adjustments at intersections, driveways, ramps, bridges, etc., to fit field conditions.

2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.

3. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.

4. Regulatory and warnings signs within the construction zone that are in conflict with the Traffic Control Plans shall be removed or covered. All signs shall be restored upon completion of the work.

5. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.

6. When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the Traffic Control Plans.

7. Sign spacing (D), taper lengths (T) and spacing of cones or delineators shall be as shown in Table 1, unless otherwise noted on the Traffic Control Plans.

8. All traffic lanes shall be a minimum of 10 feet wide.

9. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.

10. The backs of all signs used for traffic control shall be promptly removed or covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces), whenever the messages are not applicable or not in use.

11. At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in reverse order of installation.

12. Replace permanent pavement markings and traffic signs upon completion of each phase of work.

13. Police Officer/Flaggers shall be present at all times.

14. Contractor to provide access and/or directional signs to reroute pedestrian traffic.

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15. When required by the County of Kaua'i, and advertisement shall be placed in the newspaper by the Contractor for any lane closure. The advertisement shall be made one (1) week before any lane closure and shall contain the following information:

A) Map of the Traffic Change Limits;

B) Notice of starting and ending dates, times and duration;

C) Map to show Lane Closure;

D) Explanation of the Lane Closure, "NOTICE TO MOTORISTS AND PEDESTRIANS".

16. The Contractor shall be required to have any lane closure announced daily over the radio two (2) days before starting date until the work is completed. Both advertisements in the newspaper and over the radio shall be paid for by the Contractor. The Contractor shall also notify the hospitals, police, fire and ambulatory services of the lane closure.

17. All workers within the County Right of Way who are exposed to either vehicles using the roadway or to construction equipment shall wear high visibility safety apparel that meets the performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" are defined as people on foot whose duties place them with the County R/W, such as but not limited to construction and maintenance forces, equipment operators, survey crew, utility crews, responders to incidents (eg. EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling land closures and installing water service connections (roadway construction).

18. The Contractor shall make every effort to minimize the use and duration of steel plates. All steel plates shall have a non-skid surfacing. The County may require the backfilling and patching fo the trench due to the excessive use of steel plates.

19. The Contractor shall provide an adequate non-slip bridging material, including shoring over trenches in pavement areas. The bridging shall be able to support all types of vehicular and pedestrian traffic.

20. 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.

APPROVED

County Engineer

County Of Kaua'i

(For Work Within the County Right of Way)

Date

Chief, Division of Wastewater Management

(For Work Involving Sewer Lines and Appurtenances)

Date

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature]

WILSON OKAMOTO CORPORATION APRIL 30, 2020 LIC. EXP. DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

NOTES

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD

TO TEMPORARY KAPAA BYPASS ROAD

Fed. Aid Proj. No. NH-056-1(50)

Scale: Date: July 2019

"AS-BUILT"

C.O.ADD.8

CONSTRUCTION NOTES FOR
TRAFFIC CONTROL PLAN (Cont.)

21. Contractors shall provide safe passage to all motorists turning out of entrance to adjacent properties at all times. Further, the Contractor shall provide a flagger/police officer to direct traffic at the intersections.
22. The Contractor shall contact businesses located at adjacent properties at least 10 days prior to the start of construction to inform them of changes in traffic patterns on affected roadways due to the construction.
23. The contractor shall make a flyer showing the changes in traffic patterns and estimated times of use. Sufficient copies of the flyer shall be provided to each business for distribution to its employees and guests.

TABLE 1							
POSTED SPEED LIMIT (MPH)	SIGN SPACING (D) FEET	TAPER LENGTH (T) FEET		LONGITUDINAL BUFFER SPACE (B) FEET	SPACING OF CONES OF DELINEATORS (FEET)		
		*W=12' OR LESS	*W= GREATER THAN 12'		TAPER	TANGENT	WORK AREA
20	250	200	W X 17	35	20	20	10
25	250	200	W X 17	55	25	25	10
30	250	250	W X 20	85	30	30	10
35	250	250	W X 20	120	35	35	10
40	500	350	W X 30	170	40	40	10
45	500	550	W X 45	220	45	45	10
50	1000	600	W X 50	280	50	50	10
55	1000	700	W X 55	335	55	55	10

*W = Width of Lane, Shoulder, or Offset

24. If work occurs in consecutive blocks along the highway, the temporary closures shall be in line with each other instead of staggered to minimize the weaving of traffic.
25. If multiple work areas are implemented along Kuhio Highway, any required temporary lane closures shall be coordinated to ensure that simultaneous detours are not required.

GRADING NOTES

1. All grading work shall conform to Sediment and Erosion Control Ordinance No. 808, County of Kaua'i and State laws.
2. No contractor shall perform any grading operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the costs incurred for any remedial action by the County Engineer shall be payable by the contractor.
3. The contractor, at his own expense, shall keep the project 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 and The Sediment and Erosion Control Ordinance of the County of Kaua'i.
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 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 grading work shall conform to Sediment and Erosion Control Ordinance No. 808, County of Kaua'i and State laws.
7. No contractor shall perform any grading operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the costs incurred for any remedial action by the County Engineer shall be payable by the contractor.
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10. 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.
11. 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. All bare areas shall be covered with an erosion control device/method within 3 days.
12. The county 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 Sediment and Erosion Control Ordinance No. 808 and State Laws.
13. The contractor shall remove all vegetation before placing fills on natural ground surface.
14. Fills shall be compacted to 90 percent (90%) of the maximum density per ASTM D-1557 test.
15. No grading between 7 pm to 7 am on any given day or on Saturdays, Sundays and holidays without prior written permission from the County Engineer and the State Department of Health.
16. The limits of the area to be graded shall be flagged before the commencement of the grading work.

17. All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards contained in Hawai'i Administrative Rules, Chapter 11-55, "Water Pollution Control" and Chapter 11-54, "Water Quality Standards" and if applicable, the NPDES permit for the project.
18. If the grading work involves contaminated soil, then all grading work shall be done in conformance with applicable state and federal requirements.
19. 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 contractor and/or grading permit applicant. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.
20. Fill slope banks shall not exceed 2:1 and cut slope banks shall not exceed 2:1 unless otherwise noted.
21. A separate grading permit may be required for the site receiving the excess wasted excavated material. The disposal sites needs to be identified by the contractor. The disposal sites shall also fulfill the County's Sediment and Erosion Control ordinance No. 808.
22. The Contractor shall notify the Department of Public Works five (5) business days prior to commencing any grading work. When completed and ready for final inspection; notify the Department of Public Works Construction Inspection Section.
23. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The cost incurred for any remedial action by the County Engineer shall be payable by the Contractor.
24. During cleaning operations, the Contractor shall supply a water truck for dust control purposes until vegetation has re-established itself. Excess water, including silt and dirt shall not be allowed to run-off the property.
25. Best Management Practices (BMP's) shall be provided at all times to the maximum extent practicable to prevent damage by sedimentation, erosion or dust to streams, watercourses, natural areas and the property of others.

APPROVED

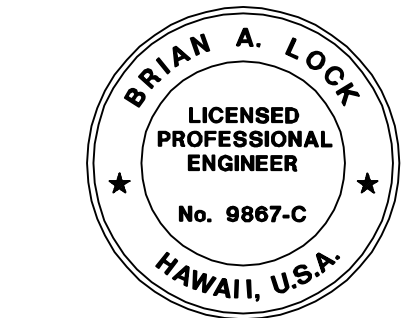
County Engineer
County Of Kaua'i
(For Work Within the County Right of Way)

Date

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11/12/19 ☐ Reissuing plan for legibility only. No design changes have been made.
9/20/19 ☐ Reissuing plan for legibility only. No design changes have been made.

DATE	REVISION
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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION APRIL 30, 2020 LIC. EXP. DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>NOTES</u>	
<u>KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD</u> <u>Fed. Aid Proj. No. NH-056-1(50)</u>	
Scale:	Date: July 2019
SHEET No. <u>N6</u> OF <u>9</u> SHEETS	

ORIGINAL PLAN	No.	DATE	SURVEY PLOTTED BY	DRAWN BY	CHECKED BY	NOTED BY	QUANTITIES BY

CURB RAMP AND SIDEWALK NOTES

- ORIGINAL PLAN

NOTE BOOK

No.

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

DESIGNED BY

CHECKED BY

DATE
1. These typical details are intended as curb ramp guidelines for design and construction.

2. A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.

3. Subject to field conditions, the Engineer shall determine the final location of curb ramps.

4. All pullboxes shall be installed away from the curb ramp and within the sidewalk/unpaved area to the maximum extent feasible.

5. Where necessary, existing pullboxes, handholes, manholes, etc. shall be adjusted to match curb ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items unless indicated otherwise.

6. Transitions from ramps to gutters and roadways shall be flush.

7. Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.

8. The pedestrian push button shall meet operational and reach requirements of Section 308.3.1 of the American with Disabilities Act Accessibility Guidelines (ADAAG):

A. Forward Reach. The maximum height for forward reach shall be 48".

B. Side Reach. The maximum height for side reach shall be 48" and the minimum height shall be 15 inches above the finished ground.

C. Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.

9. The maximum slopes of adjoining gutters or road surface immediately fronting the curb ramp shall not exceed 5% for Type A, B, C, D, E, and Combination ramps.

10. There shall be a 30"x48" level ground surface (2% max. cross slope, both directions) for a forward or side approach, as appropriate, to a pedestrian push button.

11. Construction joints are required to join curb ramps with sidewalks.

12. Unless otherwise noted, new gutters are required as shown.

13. All curb ramps shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric.

14. Surface of sidewalks and curb ramps shall be firm, stable, and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.

15. Bed course material is required for curb ramps, sidewalks, and gutters.

16. All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation. If this cannot be met, a minimum 32-inch clear width is allowed for a distance of 24-inches.

17. Passing spaces along new sidewalks with 5' clear width or less shall be provided at maximum 200' intervals as required by Section 403.5.3 of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). The passing area shall be a minimum 5' wide by 5' long as feasible.

18. If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of-way.

19. Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the requirements of Section 307.2 of the American with Disabilities Act Accessibility Guidelines (ADAAG) and will be subject to Engineer's approval.

20. If a curb ramp is not constructed according to the plans, the Contractor shall reconstruct the curb ramp at no cost to the State. Construction tolerance for Portland Cement Concrete shall be based on 1/4 inch per 10 ft. (0.2%). Remedial measures will not be accepted.
21. Additional information is available from:

A. American with Disabilities Act Accessibility Guidelines (ADAAG), Jan. 1998, The Access Board.

B. Accessible Rights-of-Way: A Design Guide, Nov. 1999, The Access Board.

C. Designing Sidewalks and Trails for Access, Part 1, July 1999, FHWA.

D. Designing Sidewalks and Trails for Access, Part 2, Sept. 2001, FHWA.
22. Pay limits for the various types of curb ramps are as shown on these typical details.
23. For curb ramps at curb returns, install Construction Joints per Standard Detail D-15 (Detail C), full width sidewalk at curb return.
24. When directed by the Engineer, sidewalk transition area shall be extended beyond shown plan limits to match the nearest scoreline.

HISTORICAL PRESERVATION NOTE

1. Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find and the find shall be protected from further damage. The Contractor shall immediately notify the DOT Engineer, the County of Kauai, Planning Department at (808) 241-4050 and the State Historic Preservation Division at (808) 652-1560 and/or (808) 651-1510.

SPECIAL NOTES TO DEVELOPER

- Certification of Completion for these water system facilities will not be issued until:
1. All water improvements are complete and dedicated to the Department of Water.

2. As-built tracings are submitted to the Department of Water.

3. Final cost breakdown for the water improvements are submitted and approved by the Department of Water. The developer shall certify costs.

4. Roadway and pipeline easements are conveyed to the Department of Water, if applicable.

5. Payment of all applicable fees for the development have been received by the Department of Water. These fees include but are not limited to:

a. Facilities Reserve Charge

6. Other required conditions are completed, if applicable.

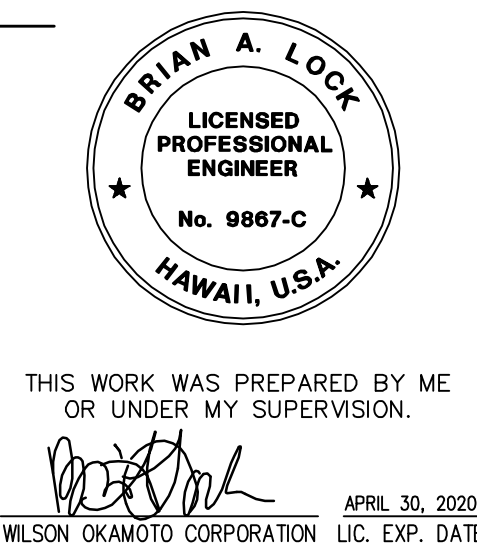
APPROVED

County Engineer
County Of Kaua'i
(For Work Within the County Right of Way)

Date

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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NOTES

KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD
Fed. Aid Proj. No. NH-056-1(50)
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SHEET No. N7 OF 9 SHEETS

"AS-BUILT"

C.O.ADD.10