

GENERAL NOTES

1. The project includes constructing new shoulders, removing and disposing of existing guardrails, installing new guardrails, extending drainage culverts, reconstructing curb ramps, installing pavement markings and reflector markers constructing drain inlets, gutters, and headwalls, and strengthening eroded pavement sections.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 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 Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -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.
6. The exact locations and limits of shoulder areas to be filled and/or paved shall be determined in the field by the Engineer. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting shoulder improvement operations.
8. Daytime work shall be performed between the hours of 8:30 AM and 3:30 PM, Monday through Friday, except holidays, unless otherwise noted on the plans, or permitted by the Engineer. Nighttime work shall be performed during the times specified in Section 104.04(B) of the Special Provisions. All work, except pavement marking & striping, from Sta. 158+80 to Sta. 163+80 shall be performed during nighttime working hours. All lanes shall be open to traffic during the morning peak hours from 6:30 AM to 8:30 AM, during afternoon peak hours from 3:30 PM to 6:30 PM, and during off work hours. Failure of the Contractor to open all lanes of traffic during the morning and afternoon peak hours and off work hours, and to open one lane of traffic during daytime and nighttime working hours, shall result in assessment of liquidated damages as specified in Section 108.08 of the Special Provisions.
9. Smooth riding connections shall be constructed at all limits of paved and unpaved shoulder as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.
10. Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, backfilling, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom, and if necessary, additional materials from borrow or as specified by the Engineer at no cost to the State.

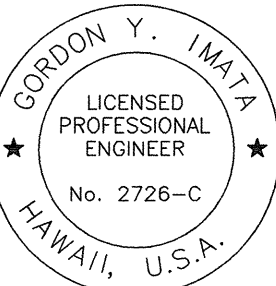
11. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
12. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
13. The contractor shall provide for access to and from all existing side streets and driveways at all times.
14. All saw cutting work shall be considered incidental to Contract Item No. 401.0500 - A.C. Pavement, Mix No. V
15. Public notice is required for lane closures. The Contractor shall submit notice to the Engineer for approval a minimum of six weeks prior to publications in accordance with Subsection 107.13 - Public Convenience and Safety. Pre-approval of the notice, with dates left blank is permissible.
16. No material and/or equipment shall be stockpiled or stored within highways right-of-way except for locations approved by the Engineer.
17. No section of incomplete guardrail, footings and/or excavation shall be left unshielded at the end of each work day.
18. All new guardrail shall be Strong Post w/ W-Beam unless noted otherwise.
19. Connection to existing guardrail shall be considered incidental to contract Item No. 606.3110 - STRONG POST W-BEAM GUARDRAIL
20. Removal and disposal of existing guardrails, including rub rails, terminal sections and terminal ends, concrete foundations, anchor blocks, grouted rubble paving, earth mounds, cables and other hardware; and backfilling holes shall be considered incidental to the various contract items.
21. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be sheilded by portable physical barriers. Furnishing, placing and maintaining physical barriers shall be considered incidental to other contract items.
22. POSTED WEIGHT LIMITS ON EXISTING BRIDGES are as follows
- | | | |
|----------------------|---|---------|
| Hanalei Bridge | = | 15 Tons |
| Waioli Bridge | = | 8 Tons |
| Waipia Bridge | = | 8 Tons |
| Wikoko Brdge | = | 8 Tons |
| Wainiha Bridge No. 1 | = | 8 Tons |
| Wainiha Bridge No. 2 | = | 8 Tons |
| Wainiha Bridge No. 3 | = | 6 Tons |

23. N.I.C. denotes "Not In Contract".

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII | HAW. | 560A-03-99 | 2002 | 3 | 86 |

LEGEND

| | | | |
|---|-------------------------------|---|-------------------------------------|
|  | Reconstruction Areas |  | Existing Sewer Line |
|  | Shoulder Construction Areas |  | New 12" Sewer Line |
|  | Cold Planing Areas |  | Existing Sewer Manhole |
|  | Resurfacing Limits |  | Adjusted Sewer MH Frame/Cover |
|  | Existing Electrical Line |  | New Sewer Manhole |
|  | New Electrical Line |  | Existing 6" Gas Line |
|  | Existing Joint Pole |  | New 6" Gas Line |
|  | Existing Power Pole |  | Existing Gas Valve Box |
|  | Existing Electric Manhole |  | Adjusted Gas Valve Box |
|  | Adjusted Elec. MH Frame/Cover |  | New Gas Valve Box |
|  | New Electric Manhole |  | Existing Gas Manhole |
|  | Existing Telephone Line |  | Adjusted Gas MH Frame/Cover |
|  | New Telephone Line |  | New Gas Manhole |
|  | Existing Telephone Pole |  | Existing Monument |
|  | Existing Telephone Manhole |  | Adjusted Monument |
|  | Adjusted Tele. MH Frame/Cover |  | New Monument |
|  | New Telephone Manhole |  | Existing 24" Drain Line |
|  | Existing Signal Corps Line |  | New 24 " RCP Drain Line |
|  | New Signal Corps Line |  | Existing Storm Drain Manhole |
|  | Existing TV Cable |  | Adjusted Storm Drain MH Frame/Cover |
|  | New TV Cable |  | New Storm Drain Manhole |
|  | Existing 12" Water Line |  | Existing Grated Drop Inlet |
|  | New 12" Water Line |  | New Grated Drop Inlet |
|  | Existing Water Manhole |  | Existing Catch Basin |
|  | Adjusted Water MH Frame/Cover |  | Existing Traffic Sign |
|  | New Water Manhole |  | Existing Highway Lighting Standard |
|  | Existing Water Air Valve |  | Existing Guardrail |
|  | Adjusted Water Air Valve |  | New Guardrail |
|  | New Water Air Valve |  | Adjust Guardrail |
|  | Existing Water Valve Box |  | Boring Location |
|  | Adjusted Water Valve Box | | |
|  | New Water Valve Box | | |
|  | Existing Water Meter | | |
|  | Adjusted Water Meter | | |
|  | New Water Meter | | |
|  | Existing Fire Hydrant | | |
|  | New Fire Hydrant | | |



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Gordon Y. Imata

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| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION | |
| <u>GENERAL NOTES AND LEGEND</u> | |
| <u>KUHIO HIGHWAY</u> | |
| <u>SHOULDER IMPROVEMENTS</u> | |
| <u>Haena to Princeville</u> | |
| <u>Project No. 560A-03-99</u> | |
| Scale: No Scale | Date: February, 2002 |
| SHEET No. 1 OF 1 SHEETS | |