

GENERAL NOTES

1. The scope of work for this project includes removing existing guardrail and end treatments, installing new metal guardrails and end treatments.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
4. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
5. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting operations.
6. All lanes shall be open to traffic during morning peak hours from 6:30 A.M. to 8:30 A.M., during afternoon peak hours 3:30 PM to 6:30 P.M., and during off work hours. Only one lane of highway shall be closed at any other time. Failure of the Contractor to open all lanes of traffic during the times specified above shall result in assessment of rental feess as specified in Section 108.09 - Rental Fees for Unauthorized Lane Closure or Occupancy.

Lane shifting is allowed during guardrail work to allow traffic in both directions. The Contractor is allowed to close auxiliary and sheltered lanes if necessary. A traffic control plan shall be approved by the Engineer before shifting and/or closure of auxiliary and sheltered lanes.

Work shall be performed at night between 8:30 P.M. and 5:00 A.M. of the following day, Sunday through Thursday, excluding holidays. Work outside off these hours are permissible when approved by the Engineer in writing.

The allowable lane closure hours during night work shall be as follows:

Sunday thru Thursday, 8:30 P.M. to 12:00 midnight
Monday thru Friday, 12:00 midnight to 5:00 A.M.

7. All workers within the State 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 requirements of ANSI/ISEA 107-2004, Performance Class 2 or 3. "Workers" is defined as people on foot whose duties place them within the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g., EMT and firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
8. 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 Highways Division at telephone no. 241-3000.
9. 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.
10. Prior to construction, the contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans, Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph: 1-866-423-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: 245-5411 and the Wastewater Division, Ph: 241-6642 for toning waterlines and sewerlines respectively.

11. All works of toning, probing, hand digging and all other means of utility verifications shall not be paid for separately, but shall be considered incidental to the various contract items.
12. The Contractor shall provide 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.
13. 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.
14. Contractor shall excercise extreme caution to preserve all existing right-of-way centerline, as-built, construction, and NGS (horizontal and vertical in the NGS database) monuments located within the State of Hawaii right -of-way, If monuments are disturbed or destroyed, the Engineer shall be notified. Reconciliation to the Right-of-Way Baseline and/or boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. The Engineer shall be contacted for guidelines and procedures prior to construction.

A State of Hwaii Licensed Surveyor shall perform the location and staking of the reset monument. The DOT Standard Plans and Specifications, with the exception of NGS monuments which shall have a NGS approved "brass disk" marker, shall be referenced for the monument type and materials.

Any NGS vertical monuments 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 turning plate or turtles; and/or turning pin with driving cap and temperature readings. Contact NGS prior to any work to ensure all equipments 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 the Engineer.

All monument work shall be considered incidental to this project, unless noted otherwise.

15. No sections where guardrail has been removedshall be left unattended at the end of each work day. Open sections shall be shielded by Portable Concrete Barrier or as directed by the Engineer. For Portable Concrete Barrier details, refer to Standard Plans TE52 and TE-43. Furnishing, installing, and maintenaning of these devices shall be considered incidental to the various contract items and will not be aid separately.
16. All saw cutting work shall be considered incidental to various contract items and will not be paid separately.
17. The Contractor, at his own expense shall hydro-mulch and maintain per Section 641 - Hydro-Mulch Seeding of the HDOT Standard Specification all areas disturbed by his operations.
18. Trimming and dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, 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 outside the limits of the right of way. Asphalt concrete removed from cold planing, reconstruction and roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.
19. All new guardrail shall be Manual for Assessing Safety Hardware (MASH) compliant unless noted otherwise.

20. Removal and disposal of existing steel and/or wood posts, rail elements, and end treatments including concrete foundations, and backfilling of resulting holes shall be considered incidental to the various contract items and will not be paid separately.
21. The pay limit for MSKT-SP-MGS (TL-3), SoftstopTermial (TL-3), and Max Tension (TL-3) is 50 L.F. in length, which shall be measured from Post 1 of the end terminal. Should the manufactured end terminal be less than 50 L.F. in length, the remaining length shall be considered incidental to the end terminal. All end terminal hardware extending beyond Post 1, such as hardware connecting to Post 0, shall also be incidental to the end terminal.

LEGEND

Existing Power Pole	Existing Metal Guardrail
Existing Electric Manhole	New Metal Guardrail
Adjusted Elec. MH Frame/Cover	Adjusted and/or Relocated Metal Guardrail
Existing Electric Pullbox	Existing Fire Hydrant
Existing Telephone Manhole	Existing Sewer Line
Adjusted Tel. MH Frame/Cover	New 12" Sewer Line
Existing Telephone Pullbox	Existing Sewer Manhole
Existing 12" Water Line	Adjusted Sewer Manhole
Existing Water Manhole	New Sewer Manhole
Adjusted Water MH Frame/Cover	Existing Monument
Existing Water Air Valve	Adjusted Monument
Adjusted Water Air Valve	New Monument
Existing Water Valve Box	Existing 24" Drain Line
Adjusted Water Valve Box	Existing Storm Drain Manhole
Existing Water Meter Box	Adjusted Storm Drain Manhole
Adjusted Water Meter Box	Existing Grated Drop Inlet
New Type "X" Water Meter Box	
Existing Traffic Sign	
New Traffic Sign	
New Grated Drop Inlet	
Adjusted/Reconstructed Drain Inlet or Replaced Steel Gate	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KUHIO HIGHWAY GUARDRAIL AND SHOULDER
IMPROVEMENTS AT VARIOUS LOCATIONS, PART 7

Federal-Aid Project No. STP-0700(090)

Date: July 2023

SHEET No. 1 OF 1 SHEETS