



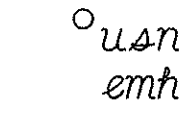
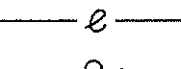
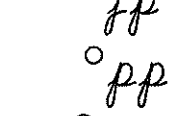
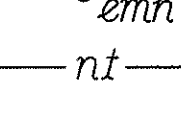
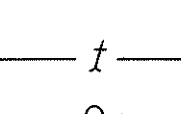
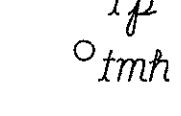
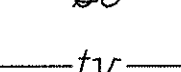
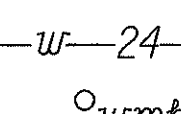
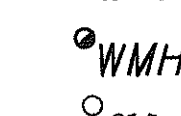
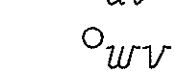
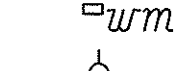


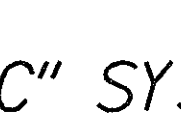
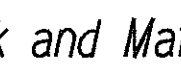
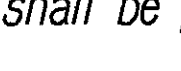


GENERAL NOTES

1. The scope of work for this project consists of removing and replacing a portion of the Halawa Stream Bridge (Inbound); constructing a detour road and temporary bridge; relocating utilities; and installing new guardrails, traffic signals, traffic signs and pavement markings.
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. 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 tone for all utility lines before starting any work. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
5. The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer.
6. The Contractor shall notify in writing the Fire and Police Department, Ambulance and Oahu Transit Services, seven (7) days prior to any paving operations.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
8. Smooth riding connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
9. Existing drainage system shall 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.
10. The Contractor shall provide for access to and from all existing side streets and adjacent properties at all times.
11. All saw cutting work shall be considered incidental to Roadway Excavation. The Contractor shall clean up any cuttings and shall not wash down material into the storm drain or sewer systems.
12. All construction signs shall be left in place until all construction items have been completed unless otherwise directed by the Engineer. The Contractor shall obtain prior approval from the Engineer to remove construction signs.
13. All work to remove temporary facilities by the Contractor shall be considered incidental to the various contract items in the proposal.
14. Following completion of the bridge and prior to removing appurtenances for the detour road, all pavement markings shall be installed as shown on the pavement marking plans and directed by the Engineer.

15. Upon completion of the bridge, installation of guardrails and end treatment, and after traffic is transferred to the finished permanent roadway, the detour road including all its appurtenances shall be removed.
16. The Contractor shall have existing utility lines toned prior to any excavation and installation of guardrails. If the proposed guardrail posts are within 3 feet of the utility lines, the Contractor shall excavate and expose the utility line to determine alignment and depth. The Contractor shall install guardrails in these areas by acceptable methods other than driving, such as hand digging to prevent damage to the existing lines.
17. After major excavations and installations of abutments, channels and embankments, the areas of exposed ground shall be immediately hydromulched to prevent erosion.
18. The utility relocations are scheduled to be started and completed within the first 4 months of the contract time period. The Contractor shall coordinate the work of the utility companies so as not to interfere within the State's Contractor's work for the remainder of the contract.
19. The Contractor shall identify ownership and content of the 4-inch utility line under the bridge. The Contractor shall notify the Engineer of their findings and coordinate relocation with the owner. If the utility line is empty, the Contractor shall cut and plug the line. This work shall be considered incidental to the various contract items. See Plan Sheet Nos. 21 & 44 for pipe location
20. The Contractor shall install ground anchorage steel pins for Portable Concrete Guardrail as directed by the Engineer. Ground anchorage steel pins shall be considered incidental to Item No. 606.9000, State Furnished Portable Concrete Guardrail.

GENERAL DETOUR NOTES

1. Detour traffic lanes shall be 15-feet wide with 2-foot wide shoulders or as indicated on the plans. Detour bridge lanes shall be 12-feet wide with 3'-3" shoulders.
2. Portable Concrete guardrail shall be offset a minimum of 2-feet from the edge of the traffic lanes.
3. Any request for changes to the detour plans shall be made in writing for the Engineer's approval and will not be implemented until approval is obtained.
4. Detour pavement structure shall be paid for under the respective items listed in proposal schedule.

-  Cold Planing Areas
-  Resurfacing Limits
-  Existing U.S. Navy Electric Manhole
-  Existing Electrical Line
-  Existing Joint Pole
-  Existing Power Pole
-  Existing Electric Manhole
-  Existing U.S. Navy Telephone Line
-  Existing Telephone Line
-  Existing Telephone Pole
-  Existing Telephone Manhole
-  Existing Signal Corps Line
-  Existing TV Cable
-  Existing 24" Water Line
-  Existing Water Manhole
-  Adjusted Water MH Frame/Cover
-  Existing Water Air Valve
-  Existing Water Valve Box
-  Existing Water Meter
-  Existing Fire Hydrant

"TRACC" SYSTEM NOTE

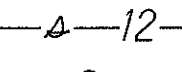






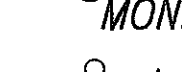

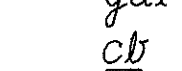
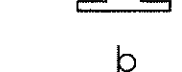
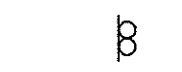



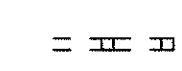

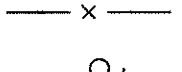
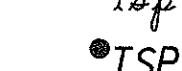
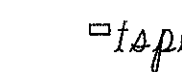

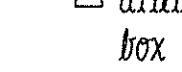





1. All work and Materials Associated with the "TRACC" System shall be per the Manufacturer's Requirements.
2. The Concrete Pad Required for the "TRACC" System shall be Considered Incidental to the "TRACC" System.
3. The Contractor's Attention is Directed to Section 694 - Trinity Attenuating Crash Cushion of the Special Provisions.

"QUADGUARD" SYSTEM NOTE

1. All work and Materials Associated with the "QUADGUARD" System shall be per the Manufacturer's Requirements.
2. The Transition and Extension Panels, Concrete Pad and Tension Strut Backup Assembly Required for the "QUADGUARD" System shall be Considered Incidental to the "QUADGUARD" System.
3. The Contractor's Attention is Directed to Section 693 - Quadguard System Terminal Attenuator of the Special Provisions.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-099-1(19)	2001	3	105

LEGEND

-  Existing Sewer Line
-  Existing Sewer Manhole
-  Existing 4" Gas Line
-  New 4" Gas Line
-  Existing Gas Valve Box
-  Existing Gas Manhole
-  Existing Monument
-  Adjusted Monument
-  New Monument
-  Existing Storm Drain Manhole
-  Existing Grated Drop Inlet
-  Existing Catch Basin
-  Existing Traffic Sign With 1 Post
-  Existing Traffic Sign With 2 Posts
-  Existing Traffic Sign With 3 Posts
-  Existing Highway Lighting Standard
-  Existing Single Metal Guardrail
-  New Single Metal Guardrail
-  Existing Double Metal Guardrail
-  New Double Metal Guardrail
-  Existing Fence
-  Existing Traffic Signal Pole
-  Existing Traffic Signal Pole
-  Existing Traffic Signal Pullbox
-  Adjusted Traffic Signal Pullbox
-  Existing Utility Pullbox
-  New Utility Pullbox

ORIGINAL PLAN	DATE
NOTED BY	12/20/01
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>GENERAL NOTES AND LEGEND</b>	
KAMEHAMEHA HIGHWAY	
Halawa Stream Bridge (Inbound) Replacement	
Federal Aid Project No. BR-099-1(19)	
Scale: None	Date: Jan., 2001
SHEET No. 1 OF 1 SHEETS	