
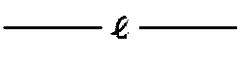
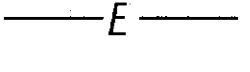
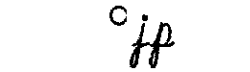
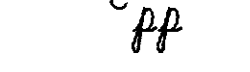
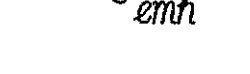
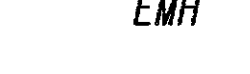
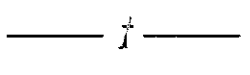
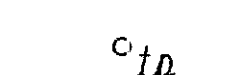
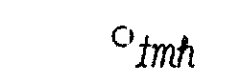
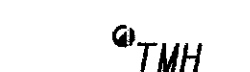
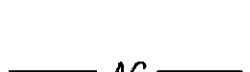

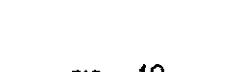
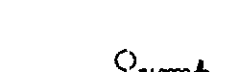


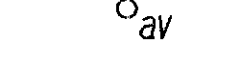
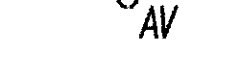





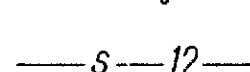
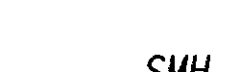
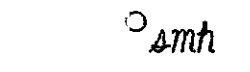


GENERAL NOTES

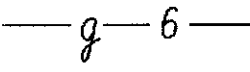
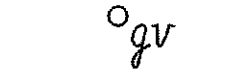
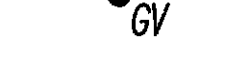
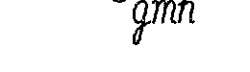
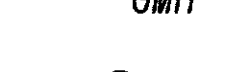

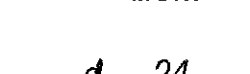
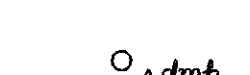



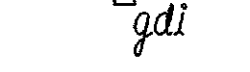
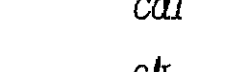
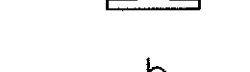




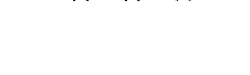


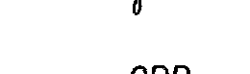





1. The project includes reconstructing and resurfacing the roadway; flattening shoulder slopes; adjusting utility manholes and valve boxes; reconstructing centerline survey monuments; resetting guardrails and replacing guardrail end terminals; replacing and installing signs; and replacing pavement striping and markers.
2. The Contractor's attention is directed to the following Sections of the Standard Specifications 2005 and Special Provisions: Subsection 104.11 - Utilities and Services, Section 107 - Legal Relations and Responsibility to Public, and Section 645 - Work Zone Traffic Control.
3. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
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 the 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 or areas to be reconstructed and cold planed shall be determined in the field by the Engineer.
7. Prefomed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. Payment shall be incidental to Item No. 401.0100 - HMA Pavement, Mix No. IV.
8. The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Item No. 401.0100 - HMA Pavement, Mix No. IV.
9. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, side streets and driveways as shown on the plans and/or as directed by the Engineer.
10. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
11. Contractor shall provide for access to and from existing side streets and driveways at all times.
12. All saw cutting work shall be considered incidental to Item No. 401.0100 - HMA Pavement, Mix No. IV and will not be paid for separately.
13. Initial preparation of shoulder areas shall be done by the Contractor. Shoulder preparation shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material from roadway reconstruction and cold planing, as shown on the plans and/or as directed by the Engineer. Contractor shall also be responsible for finish rolling and maintaining the shoulders until project completion. This work shall be considered incidental to Item No. 401.0200 - HMA Pavement, Mix No. V.

14. Unprotected pavement dropoffs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
15. Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with dates left blank, is permissible.
16. Cold-planing of 50-ft. transitions at project limits shall be considered incidental to Item No. 415.0100 - Cold Planing.
17. Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at the end of each work day.
18. The Contractor's attention is called to Section 407 - Tack Coat of the Special Provisions.
19. Temporary striping on cold planed surfaces shall be with paint (tape will not be allowed). Temporary striping on final overlay shall be with temporary tape.
20. Pavement striping shall be done with alkyd-based thermoplastic.
21. The Contractor shall replace all signs, posts and anchors within the project limits.
22. Cold planing of adjacent travel ways shall be completed on the same day. Temporary pavement markings shall be installed prior to the end of each work day.
23. Material from cold planing operations shall remain the property of the State and all excess shall be delivered to the North Kona Baseyard near Milepost 35 and the vicinity of Milepost 26.5.

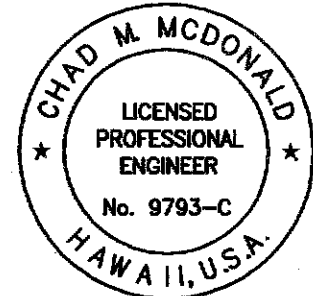
LEGEND

-  Reconstructed Pavement
-  Existing Electrical Line
-  New Electrical Line
-  Existing Joint Pole
-  Existing Pwer Pole
-  Existing Electric Manhole
-  Replaced Elec. MH Frame/Cover
-  Existing Telephone Line
-  Existing Telephone Pole
-  Existing Telephone Manhole
-  Replaced Telephone MH Frame/Cover
-  Existing Signal Corps Line
-  Existing TV Cable
-  Existing 12" Water Line
-  Existing Water Manhole
-  Adjusted Water MH Frame/Cover
-  Existing Water Air Valve
-  Adjusted Water Air Valve
-  Existing Water Valve Box
-  Adjusted Water Valve Box
-  Existing Water Meter
-  Adjusted Water Meter
-  New Water Meter
-  New Fire Hydrant
-  New 12" Sewer Line
-  Adjusted Sewer MH Frame/Cover
-  Existing Sewer Manhole

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	190B-01-09M	2010	3	54

-  Existing 6" Gas Line
-  Existing Gas Valve Box
-  Adjusted Gas Valve Box
-  Existing Gas Manhole
-  Adjusted Gas MH Frame/Cover
-  Existing Monument
-  Adjusted Monument
-  Existing 24" Drain Line
-  Existing Storm Drain Manhole
-  Adjusted Storm Drain MH Frame/Cover
-  New Storm Drain Manhole
-  Existing Grated Drop Inlet
-  Existing Drop Inlet
-  Existing Catch Basin
-  Existing Traffic Sign
-  Existing Highway Lighting Standard
-  Edge of Pavement
-  Edge of Shoulder
-  Existing Chain Link Fence
-  Existing Traffic Signal Pullbox
-  Replaced Traffic Signal Pullbox
-  Existing Force Main
-  Grouted Riprap
-  Underdrain Cleanout
-  Underdrain Outlet
-  Existing Traffic Signal Pole
-  Replaced Traffic Signal Pole

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
NOTED BY	DATE
QUANTITIES BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
NOTED BY	DATE
QUANTITIES BY	DATE



This work was prepared by me or under my supervision

4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M

Scale: As Noted Date: May 2010

SHEET No. C-1 OF 54 SHEETS