

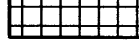

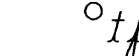
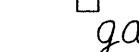



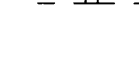
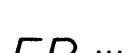






| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 360B-01-12M | 2012 | 3 | 31 |

GENERAL NOTES

1. This project begins at milepost 19.39 on Hana Highway (Route 360) in the vicinity of Waikani Bridge and proceeds easterly to milepost 23.38. The scope of work for this project consists of cold planing, resurfacing existing pavement, installing pavement markings and signing, upgrading guardrail and end terminals, adjusting guardrail post, cleaning existing drainage culverts, constructing grated drop inlet, reconstructing weakened pavement areas and concrete spill, cracks repairs on bridges.
2. The Contractor's attention is directed to Subsection 107.13 - Public Convenience and Safety: Section 645 - Traffic Control and Subsection 104.04 Maintenance of Traffic.
3. 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.
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 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 cold planed shall be determined in the field by the Engineer. Cold planing to be done at side roads and in front of existing asphalt swale shall not be paid for separately but shall be considered incidental to Hot Mix Asphalt (HMA) Pavement, Mix No. IV.
6. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
7. The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Hot Mix Asphalt (HMA) Pavement, Mix No. IV and will not be paid for separately.
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. Prior to cold planing over an existing structure, the Contractor shall determine the actual depth of the existing asphalt concrete pavement. The Contractor shall take several cross section measurements throughout the structure. If the thickness of the existing pavement is less than the proposed resurfacing thickness, the Contractor shall remove the existing pavement to the level of the structure and resurface to the original thickness.
10. In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure, especially the structure deck, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operation shall be repaired by the Contractor at his own expense. Repair work shall be as directed by the Engineer. The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered incidental to Cold Planing.

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. The Contractor shall verify available roadway width to determine the accuracy of the designed "Typical Section". Any discrepancies shall be brought up to the Engineer for direction.
13. Load transfer stations will not be permitted without written approval from the Engineer. Proposal must be submitted at least two (2) weeks prior to commencement of work. Proposal shall include action plan to insure compliance with the requirements of the specifications such as temperature, allowable weight on bridges, material contamination etc.
14. No material or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations designated in writing and approved by the Engineer.
15. After the project is completed, the Contractor shall restore grades and groundcover within the project limits to a condition equal or better than existing condition prior to construction.
16. All excess materials not needed for this project shall become the property of the Contractor. If disposed of, it shall be in accordance with the Environmental Protection Agency's policies and guidelines. This work shall be considered incidental to various contract items and will not be paid for separately.
17. Resetting or adjusting of existing guardrail heights shall include adjustment of terminal sections including foundations etc. to required height.

LEGEND

- | | |
|---|--------------------------------------|
|  | <i>Reconstruction Areas</i> |
|  | <i>Cold Planing Areas</i> |
|  | <i>Resurfacing Limits</i> |
|  | <i>Existing Telephone Pole</i> |
|  | <i>Existing Grated Drop Inlet</i> |
|  | <i>Existing Traffic Sign</i> |
|  | <i>New Traffic Sign</i> |
|  | <i>New Traffic Sign With 2 Posts</i> |
|  | <i>Existing Guardrail</i> |
|  | <i>New Guardrail</i> |
|  | <i>RM-3 (Flexible Post)</i> |
|  | <i>RM-3 (Steel Post)</i> |
|  | <i>RM-4</i> |
|  | <i>RM-5</i> |
|  | <i>Type II Object Marker</i> |

| | | |
|---------------------|-------------------------|-------------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ | DATE <u>01/76</u> |
| NOTE BOOK | DRAWN BY <u>JD</u> | • _____ |
| <u>meljay</u> | TRACED BY _____ | • _____ |
| <u>thammingnath</u> | DESIGNED BY <u>or</u> | • _____ |
| | QUANTITIES BY _____ | • _____ |
| | CHECKED BY _____ | • _____ |

User should copy file to your directory with the 'cp' command

```
$ cp /usr2/hwy/plandir/gennotera.dgn filename.dgn
```

r 3/25/93

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

HANA HIGHWAY RESURFACING
Vicinity of Waikani Bridge to Kapaula Bridge
Project No. 360B-01-12M

Date: December, 2011

SHEET No. 1 OF 1 SHEETS