

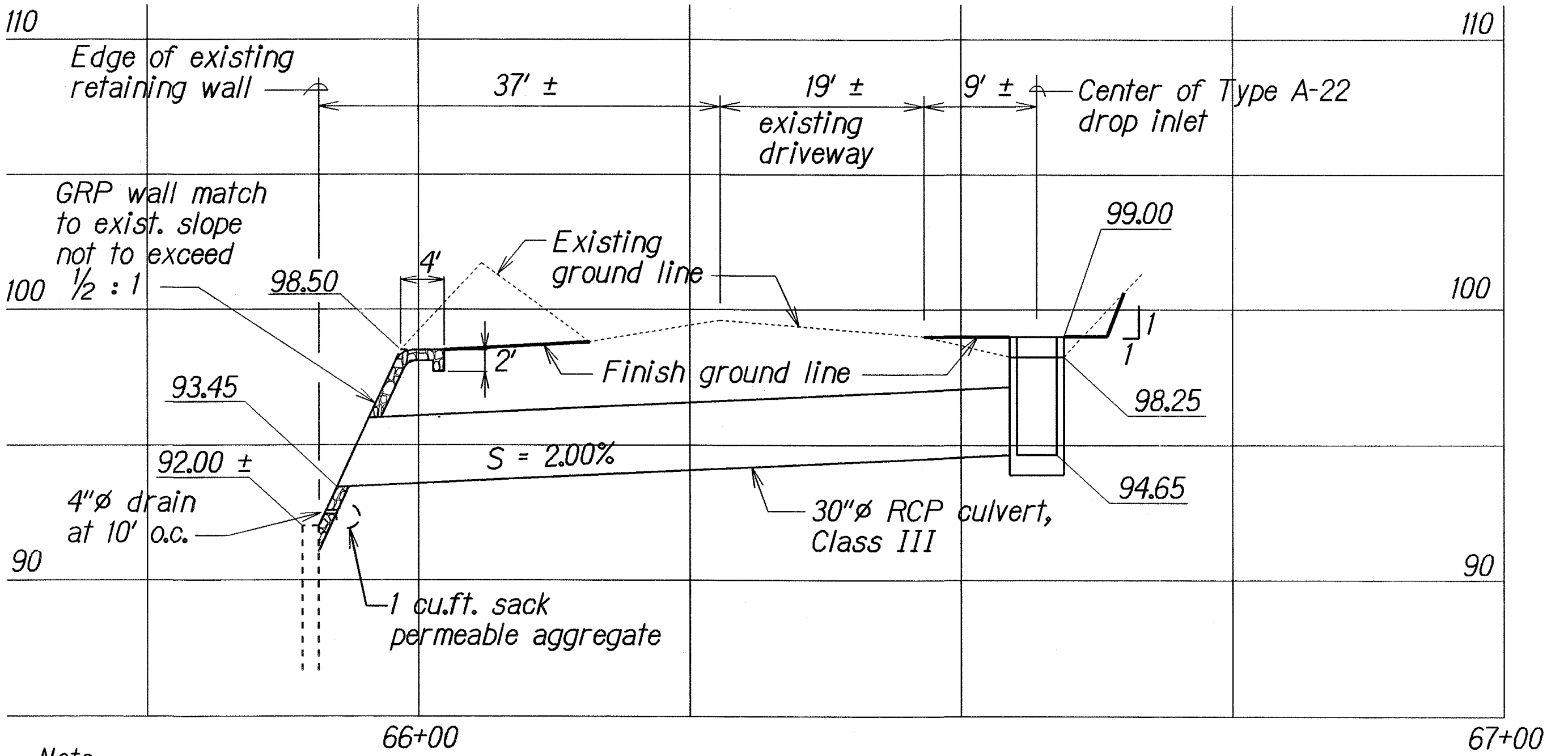
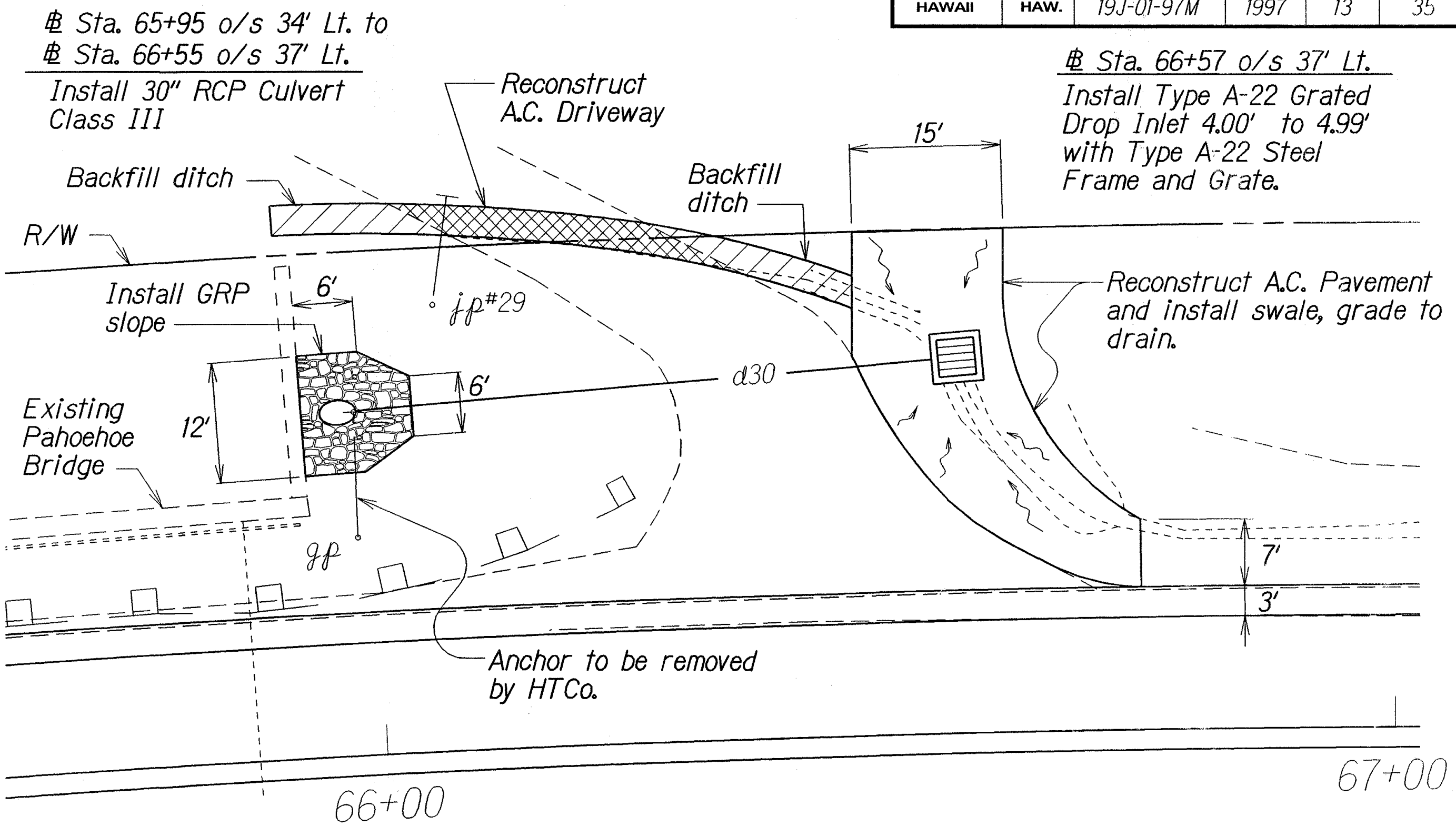
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII | HAW. | 19J-01-97M | 1997 | 13 | 35 |

| ESTIMATED QUANTITIES (Description) | Drainage Facility A | | | | | | Drainage Facility B | | | | | | TOTAL |
|---------------------------------------|---------------------|-------------------|-----------------|-----------------|---------------|------------|---------------------|---------|--------------|-----------------|-----------|----------|---------------------|
| | A.C. Swale | 30" RCP | GRP Wall | A-22 GDI | Recon Dvwy | Fill Ditch | A.C. Swale | 30" RCP | GRP Wall | D-3 CB | 61614 GDI | CRM Wall | |
| Excavation | | 68 | 5 | 6 | | | | 313 | 21 | 8 | 7 | 4 | *432 C.Y. |
| Roadway Excavation | 9 | 8 | | | | | 106 | | 61 | | | | 184 C.Y. |
| Bed Course Material | | 6 | | | | | | 30 | | | | | *36 C.Y. |
| Backfill | 12 | 62 | | | 8 | 11 | 106 | 30 | | | | | *229 C.Y. |
| A.C. Mix No. IV | 5 | 1 | | | 1 | | 58 | | | | | | 65 Tons |
| Glassphalt Conc. Base Course | 13 | 3 | | | 3 | | 150 | | | | | | 169 Tons |
| Type A-22 G.D.I., 4.00' to 4.99' | | | | 1 | | | | | | | | | 1 Each |
| Type A-22 Steel Fr. & Grates | | | | 1 | | | | | | | | | *1 Set |
| Type D-3 C.B., 5.00' to 5.99' | | | | | | | | | | ≠ 0 | | 0 | ≠ Each |
| Type A-9P Steel Fr. & Grates | | | | | | | | | | 1 | | | *1 Set |
| Type 61614 G.D.I., 6.00' to 6.99' | | | | | | | | | | | 1 | | 1 Each |
| Type 61614B Steel Fr. & Grates | | | | | | | | | | | 1 | | *1 Set |
| 30" RCP Culvert, Class III | | 6 63.5 | | | | | 322 112 | | | | | 175.5 | 383 L.F. |
| Cement Rubble Masonry | | | | | | | | | | | | 4 | 4 C.Y. |
| Grouted Rubble Pavement | | | 5 14 | | | | | 126 | 6 | 11 * | | 140 | 66 C.Y. |
| | Sta. 62+23 Lt. | Sta. 74+30 Lt. | Sta. 84+00 Lt. | Sta. 111+50 Lt. | Sta. 4+90 Lt. | | | | | | | | |
| Excavation | 7 | 6 | 7 | 8 | 7 | | | | | | | | *35 C.Y. |
| Type D-3 C.B., 3.00' to 3.99' | | 1 | | | | | | | | | | | 1 Each |
| Type D-3 C.B., 4.00' to 4.99' | 1 | | 1 | | 1 | | | | 1 | | | | 3 Each |
| Type D-3 C.B., 5.00' to 5.99' | | | | 1 | | | | | | | | | 1 Each |
| Type A-9P Steel Fr. & Grates | 1 | 1 | 1 | 1 | 1 | | | | 1 | | | | *5 Set |

* Incidental work as noted in the plans and contract.
No separate payment is provided for such work.

NOTES :

- 4" tile drain weep holes and permeable aggregate sack shall be considered incidental to Item No. 612.0200, Grouted Rubble Paving.
- The Contractor shall follow applicable rules and regulations of the State Department of Health and the County Wastewater Division for notifying customers of temporary disconnection, removing and disposing of existing sewer service lateral, and for installing and testing new sewer service lateral. The Contractor shall submit shop drawings to the Engineer for acceptance prior to beginning such work.
- Backfill material shall be from excess on-site materials excavated from Roadway Excavation, Excavation for Reconstruction of Weakened Pavement Areas, Removal of Bituminous Overlay, 30-inch Reinforced Concrete Pipe, Class III, Grouted Rubble Pavement, Cement Rubble Masonry, Catch Basin, Grated Drop Inlets, and Manholes. Unless otherwise provided for on the plans or in the contract, backfill shall not be paid for separately and shall be considered incidental to respective item of excavated materials. Backfill shall conform with the requirements of Section 203, Excavation and Embankment, and Section 206, Excavation and Backfill for Conduits and Structures, as amended.
- Existing paved areas shall be sawcut prior to excavation to avoid damaging the remaining pavement. The Contractor may request a waiver of the sawcut requirement when cold-planing.
- The Contractor shall stake out locations for all paved swales, drop inlets, outlet structures, culverts, GRP slope protection, and adjusted sewer service lateral for the Engineer's acceptance. Final limits and locations shall be as determined by the Engineer in the field.
- A.C. pavement reconstruction shall be 1½" A.C. Mix No. IV on 4" G.C.B. and shall be paid for under the respective pay items.



Note:
G.R.P. wall thickness = 12 inches, unless otherwise noted.

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-----------------------------------|
| 100-00 | Double line for as-built deletion |
| Roadway | Text for as-built posting |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE FACILITY A
& ESTIMATED QUANTITIES

HAWAII BELT ROAD RESURFACING
PAUKAA TO PĀPĀIKOU
PROJECT NO. 19J-01-97M

Scale: As Shown Date: Jan., 1997

SHEET No. 1 OF 1 SHEETS

"AS-BUILT"