

STANDARD PLANS SUMMARY

|                        |       |           |                |              |                 |
|------------------------|-------|-----------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | 31B-01-94 | 1994           | 2            | 9               |

| STANDARD<br>PLAN NO. | TITLE                                                | DATE      |
|----------------------|------------------------------------------------------|-----------|
| B-01                 | Notes and Miscellaneous Details                      | 07/01/86  |
| B-02                 |                                                      |           |
| B-03                 | Typical Structure Excavation and Backfill Pay Limits | 07/01/86  |
| B-04                 |                                                      |           |
| B-05                 |                                                      |           |
| B-06                 | Concrete Box Girder                                  | 07/01/86  |
| B-07                 | Concrete Box Girder                                  | 07/01/86  |
| B-08                 | Concrete Box Girder                                  | 07/01/86  |
| B-09                 |                                                      |           |
| B-10                 |                                                      |           |
| B-11                 |                                                      |           |
| B-12                 | Prestressed Concrete Piles                           | r07/16/90 |
| B-13                 | Prestressed Concrete Piles                           | r07/16/90 |
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|        |                                                      |           |
|--------|------------------------------------------------------|-----------|
| D-01   | Chain Link Fence With Toprail                        | r03/06/87 |
| D-02   | Chain Link Fence Without Toprail                     | r07/26/90 |
| D-03   | Wire Fence With Metal Posts                          | 07/01/86  |
| D-04 ● | Typical Details of Curbs and/or Gutters              | 07/01/86  |
| D-05   | Typical Details of Reinforced Concrete Drop Driveway | 07/01/86  |
| D-06   | Centerline and Reference Survey Monument             | 07/01/86  |
| D-07   | Street Survey Monument                               | 07/01/86  |
| D-08   | Landscaping Shrub and Tree Planting                  | 07/01/86  |
| D-09   | Field Office                                         | 07/01/86  |
| D-10   | Field Office                                         | 07/01/86  |
| D-11   | Project Site Laboratory                              | 07/01/86  |
| D-12   | Project Site Laboratory                              | 07/01/86  |
| D-13   | Field Office & Project Site Laboratory               | 07/01/86  |
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|------|-----------------------------------------------|-----------|
| H-01 | Type A, B, C and D Catch Basin                | 07/01/86  |
| H-02 | Type A1, B1, C1 and D1 Catch Basin            | 07/01/86  |
| H-03 | Type A2, B2, C2 and D2 Catch Basin            | 07/01/86  |
| H-04 | Typical Reinforcing Details for Catch Basins  | 07/01/86  |
| H-05 | Type A, B and C Storm Drain Manhole           | 07/01/86  |
| H-06 | Type D and E Storm Drain Manhole              | 07/01/86  |
| H-07 | Type F Storm Drain Manhole                    | 07/01/86  |
| H-08 | Catch Basin and Manhole Casting               | 07/01/86  |
| H-09 | Type A-9 and A-9P Frames and Grates           | 07/01/86  |
| H-10 | Type A-9B Frames and Grates                   | 07/01/86  |
| H-11 | Type 61614 and 61214 Grated Drop Inlet        | 07/01/86  |
| H-12 | Type 61616 Grated Drop Inlet                  | 07/01/86  |
| H-13 | 61214, 61614 & 61616 Steel Frames and Grates  | 07/01/86  |
| H-14 | 61214B Steel Frame and Grates                 | 07/01/86  |
| H-15 | 61614B Steel Frame and Grates                 | 07/01/86  |
| H-16 | Concrete and Cement Rubble Masonry Structures | r10/16/90 |
| H-17 | Inlet Structures                              | r10/16/90 |
| H-18 | Flared End Section for Culverts               | 07/01/86  |
| H-19 | Outlet Structures                             | r02/15/91 |
| H-20 | Concrete Spillway Inlet                       | 07/01/86  |
| H-21 | 18" Slotted C.M.P. Drain                      | 07/01/86  |
| H-22 | C.M.P. Coupling Details Standard Joint        | r10/16/90 |
| H-23 | Hat Shaped Coupling Band                      | r10/16/90 |
|      |                                               |           |
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| STANDARD<br>PLAN NO. | TITLE                                                    | DATE      |
|----------------------|----------------------------------------------------------|-----------|
| TE-01 ●              | Miscellaneous Sign Details                               | 07/01/86  |
| TE-02 ●              | Galvanized Flanged Channel Sign Post Mounting            | 07/01/86  |
| TE-03 ●              | Galvanized Square Tube Sign Post Mounting                | 07/01/86  |
| TE-04 ●              | Regulatory Signs                                         | r09/01/87 |
| TE-05                | Warning Signs                                            | 07/01/86  |
| TE-06                | Miscellaneous Signs                                      | r11/03/89 |
| TE-07                | Reserved                                                 | 07/01/86  |
| TE-08 ●              | Construction Signs                                       | r09/01/87 |
| TE-09                | Miscellaneous Intersection Signs                         | r03/06/87 |
| TE-10                | Reserved                                                 | 07/01/86  |
| TE-11                | Bike Route Sign and Supplementary Plates                 | 07/01/86  |
| TE-12                | State Route Marker and Auxiliary Markers                 | 07/01/86  |
| TE-13                | Interstate Route Marker                                  | 07/01/86  |
| TE-14                | State Route Marker and Border Detail for Guide Signs     | 07/01/86  |
| TE-15                | Route Marker Assemblies                                  | 07/01/86  |
| TE-16                | Miscellaneous Reflector Markers                          | 07/01/86  |
| TE-17                | Type II Object Markers                                   | 07/01/86  |
| TE-18                | Mileposts                                                | 07/01/86  |
| TE-19                | Reserved                                                 | 07/01/86  |
| TE-20                | Overhead Sign Supports                                   | 07/01/86  |
| TE-21                | Overhead Sign Support, Box Truss Type, Aluminum          | 07/01/86  |
| TE-22                | Foundation Details and Schedules                         | 07/01/86  |
| TE-23                | Supports for Ground Mounted Guide Sign                   | r11/03/89 |
| TE-24                | Breakaway Sign Supports for Ground Mounted Guide Signs   | 07/01/86  |
| TE-25                | Laminated Aluminum Sign Panels (Overhead)                | 07/01/86  |
| TE-26                | Laminated Aluminum Sign Panels (Ground Mounted)          | 07/01/86  |
| TE-27                | Solid Aluminum Extruded Sign Panel and Accessory Details | 07/01/86  |
| TE-28                | Guide Signs Luminaire Mountings                          | 07/01/86  |
| TE-29                | Reserved                                                 | 07/01/86  |
| TE-30 ●              | Raised Pavement Markers and Striping                     | r05/09/90 |
| TE-31 ●              | Miscellaneous Pavement Markings                          | r05/09/90 |
| TE-32 ●              | Miscellaneous Pavement Markings                          | r05/09/90 |
| TE-33 ●              | Miscellaneous Pavement Markings                          | r11/03/89 |
| TE-34                | Reserved                                                 | 07/01/86  |
| TE-35                | Pavement Alphabets, Numbers & Symbols                    | 07/01/86  |
| TE-36                | Pavement Alphabets, Numbers & Symbols                    | 07/01/86  |
| TE-37                | Reserved                                                 | 07/01/86  |
| TE-38 ●              | Traffic Signal System, Miscellaneous Details             | r11/03/89 |
| TE-39 ●              | Traffic Signal System, Miscellaneous Details             | 07/01/86  |
| TE-40 ●              | Loop Detectors                                           | r11/03/89 |
| TE-41 ●              | Pullboxes                                                | 07/01/86  |
| TE-42 ●              | Type III Traffic Signal Standard                         | 07/01/86  |
| TE-43                | Concrete Pullbox (2' x 3')                               | 07/01/86  |
| TE-44                | Reserved                                                 | 07/01/86  |

| STANDARD<br>PLAN NO. | TITLE                                                                   | DATE      |
|----------------------|-------------------------------------------------------------------------|-----------|
| TE-45                | Reserved                                                                | 07/01/86  |
| TE-46                | Reserved                                                                | 07/01/86  |
| TE-47                | Reserved                                                                | 07/01/86  |
| TE-48                | Reserved                                                                | 07/01/86  |
| TE-49                | Reserved                                                                | 07/01/86  |
| TE-50                | Metal Guardrail                                                         | r03/06/87 |
| TE-51                | Metal Guardrail                                                         | r09/01/87 |
| TE-52                | Metal Guardrail with Rubrail                                            | r11/03/89 |
| TE-53                | Metal Guardrail with Rubrail at Obstruction                             | r09/01/87 |
| TE-54                | Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation) | r11/03/89 |
| TE-55                | Metal Guardrail Connection to Concrete Barrier                          | r11/03/89 |
| TE-56                | Concrete Barrier Transition                                             | 07/01/86  |
| TE-57                | Guardrail Type 3, Thrie Beam                                            | r11/03/89 |
| TE-57A               | Guardrail Type 3, Modified Thrie Beam                                   | 11/03/89  |
| TE-58                | Approach End Flare, One & Two Way Roadway                               | 07/01/86  |
| TE-59                | Trailing End Flare, One & Two Way Roadway                               | r11/03/89 |
| TE-60                | Anchor Block Details                                                    | 07/01/86  |
| TE-61                | Breakaway Cable Terminal (BCT)                                          | r11/03/89 |
| TE-62                | Breakaway Cable Terminal (BCT)                                          | r09/01/87 |
| TE-63                | Guardrail Type 4 (Rigid Barrier)                                        | r09/01/87 |
| TE-64                | Portable Concrete Barrier                                               | r11/03/89 |
| TE-65                | Guardrail Type 4, Miscellaneous                                         | r09/01/87 |
| TE-66                | Barricades                                                              | 07/01/86  |
| TE-67                | Delineation & Pavement Markings at Bridges                              | 07/01/86  |
| TE-68                | Wheelchair Ramps                                                        | r11/03/89 |
| TE-69                | Wheelchair Ramps                                                        | r11/03/89 |
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|                  |                   |       |
|------------------|-------------------|-------|
| ORIGINAL<br>PLAN | SURVEY PLOTTED BY | DATE  |
| NOTED BY         | DRAWN BY          | 12/93 |
| DESIGNED BY      | CHECKED BY        |       |
| FOR REVIEW       |                   |       |
| APPROVED BY      |                   |       |

|          |                                                                                                                                                |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 02/15/91 | REVISED STANDARD PLAN H-19                                                                                                                     |
| 10/16/90 | REVISED STANDARD PLANS H-16, H-17, H-22 & H-23.                                                                                                |
| 07/26/90 | REVISED STANDARD PLANS D-02.                                                                                                                   |
| 07/16/90 | REVISED STANDARD PLANS B-12, B-13.                                                                                                             |
| 05/09/90 | REVISED STANDARD PLANS TE-30, TE-31, & TE-32.                                                                                                  |
| 11/03/89 | REVISED STANDARD PLANS TE-06, TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69. |
|          | ADDED TE-57A TO STANDARD PLANS                                                                                                                 |
| 09/01/87 | REVISED STANDARD PLANS TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69.                      |
| 03/06/87 | REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64.                                                   |
| DATE     | REVISION                                                                                                                                       |

NOTE:  
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO.  
(D-07 ● )

|                                                                      |
|----------------------------------------------------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |
| STANDARD PLANS SUMMARY                                               |
| PIILANI HIGHWAY                                                      |
| Intersection Improvements at Lipoa Street                            |
| PROJECT NO. 31B-01-94                                                |
| Date: Jan., 1994                                                     |
| SHEET No. 1 OF 1 SHEETS                                              |