

STANDARD PLANS SUMMARY

|                        |        |                            |                |              |                 |
|------------------------|--------|----------------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE  | FEDERAL AID<br>PROJECT NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAWAII | STP-019-2(60)              | 2010           | 2            | 36              |

| 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 |
|                      |                                                      |           |
|                      |                                                      |           |

|        |                                                      |           |
|--------|------------------------------------------------------|-----------|
| 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  |
|        |                                                      |           |
|        |                                                      |           |

|        |                                               |           |
|--------|-----------------------------------------------|-----------|
| 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 |
|        |                                               |           |
|        |                                               |           |

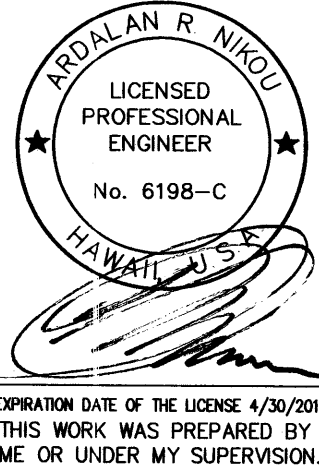
| STANDARD<br>PLAN NO. | TITLE                                                    | DATE      |
|----------------------|----------------------------------------------------------|-----------|
| TE-01                | Miscellaneous Sign Details                               | 07/01/86  |
| TE-02                | 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                                                        | r07/18/94 |
| TE-69                | Wheelchair Ramps                                                        | r07/18/94 |
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|----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 07/18/94 | REVISED TE-68 & TE-69                                                                                                                       |
| 02/15/91 | REVISED H-19                                                                                                                                |
| 10/16/90 | REVISED H-16,H-17, H-22 & H-23                                                                                                              |
| 07/26/90 | REVISED D-02                                                                                                                                |
| 07/16/90 | REVISED B-12,B-13                                                                                                                           |
| 05/09/90 | REVISED TE-30,TE-31 & TE-32                                                                                                                 |
| 11/03/89 | REVISED 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 |
| 09/01/87 | REVISED 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 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.  
(FOR EXAMPLE: D-07 ● )

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**STANDARD PLANS  
SUMMARY**  
HAWAII BELT ROAD DRAINAGE  
IMPROVEMENTS, HAKALAU BRIDGE  
FEDERAL-AID PROJECT NO. STP-019-2(60)  
Scale: As Noted      Date: July 2010  
SHEET No. 1 OF 1 SHEETS