

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-00	2000	2	15

STANDARD 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	Hot Shaped Coupling Band	r10/16/90

STANDARD 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 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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD PLANS SUMMARY
*FLASHING WARNING LIGHTS
AT VARIOUS HIGHWAY LOCATIONS*
PROJ. NO. HWY-H-09-00
Scale: None Date: April, 2000
SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN

SURVEY PLOTTED BY

DRAWN BY

TRACED BY

NOTES BOOK

DESIGNED BY

QUANTITIES BY

CHECKED BY

No. 109

DATE

GENERAL NOTES

1. The scope of this project consists of Installation of flashing beacon, signs, pull boxes, drop service poles, breakaway posts and appurtenances.
2. The Contractor is reminded of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Noncompliance with this Subsection may be grounds for rejection of bid.
3. The Contractors attention is directed to the following Sections of the Special Provisions: Subsection 107.13 - Public Convenience and Safety, and Section 645 - Traffic Control.
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 construction is possible. The Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify the State in writing, two (2) weeks prior to starting construction.
7. 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 the various contract items.
8. Contractor shall provide access to and from all existing side streets at all times.
9. All saw cutting work shall be considered incidental to various contract items and will not be paid for separately.
10. Trenches across highway shall be restored & paved over during non-working hours, except where approved by Engineer in writing.
11. Public notice is required for lane closures. Contractor shall submit notice to Engineer for approval of a minimum of six weeks prior to publication in accordance with Subsection 107.13 - Public Convenience and Safety. Pre-approval of the notice, with dates left blank is permissible.
12. The Contractor shall schedule his work around the Ironman Triathlon Race activities. All pavement and shoulder areas shall be restored to smooth riding condition, completely cleaned and pavement striping installed three (3) weeks prior to this event. No construction work shall be permitted three (3) weeks before and one (1) week after the Ironman Triathlon Race.
13. No material and/or equipment shall be stockpiled or stored within highways right-of-way except for locations approved by the Engineer.
14. New pole locations shall be staked by the Contractor and approved by the Engineer prior to excavation. Adjustment of pole locations in the field may be required to clear underground and aerial utility lines.
15. Contractor shall be responsible for coordinating and informing Hawaii Electric Light Co. of light pole location on site prior to installation of their secondary cables.
16. Secondary Aerial Cables to new poles will be furnished and installed by HELCO and paid for under this project by Force Account.
17. Contractor shall procure all permits and pay any necessary fees for the lawful prosecution of the work.
18. Relocation of the existing signs and installation of new signs shall be incidental to various contract items.
19. All Signal Heads shall be LED units.

SIGN NOTES

1. Letter size:
 - a. When letters are all uppercase, use series "E"
 - b. When initial uppercase letter is used in conjunction with lowercase letters, use series "E" (M) for uppercase letter.
2. All signs shall conform to Section 621 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
3. Borders, messages, arrows symbols and shield shall conform to details as shown on the plans and as specified in the MUTCD.
4. Sign messages shall be as indicated on the plan.
5. All panels shall be reflectorized in accordance with Section 7122.20 of the Standard Specifications. Minimum width of panels shall be 2 ft. Abutting edges of panels shall be in one direction abutting edges are used. No horizontal abutting edges shall be allowed and vice versa.
6. Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet vertical by 6 feet or less shall be of one sheet.
7. Backing for all new Regulatory and Warning Signs shall not be spliced.
8. Final locations of all signs shall be approved by the Engineer prior to any installation work.
9. Existing signs that are to be replaced, shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
10. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal of existing signs and/or posts as designated on these plans to be delivered to the Hilo District Baseyard as directed by the Engineer and shall be incidental to the various signing items.
11. Removal of Existing Delineators and Posts shall be considered incidental to the various signing items.
12. Removing and reinstalling existing Street Name Signs on Regulatory and Warning Sign Post shall not be paid for separately but shall be considered incidental to the various signing items.
13. All Existing Destination, Street Name, and Non-Standard Signs, that are to be Removed and New Sign installed at the same location, shall be identical to the existing sign in size and text. The Contractor shall submit Shop Drawings to the Engineer for approval prior to fabricating the sign.
14. All signs shall be installed on 12 gauge square tubing posts, unless otherwise noted.
15. Mount Sign Posts with RM-3 reflector markers as directed in the field by the Engineer.

16. Sign posts shall be painted yellow reflective paint, except where located behind guardrails. Such paint work shall be considered incidental to sign items.
17. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Hilo District Baseyard or as directed by the Engineer at the end of the project.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-09-00	2000	3	15

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
	NOTED BY	
NOTE BOOK	QUANTITIES BY	
	CHECKED BY	
SIGN		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL AND SIGN NOTES

FLASHING WARNING LIGHTS
AT VARIOUS HIGHWAY LOCATIONS
PROJ. NO. HWY-H-09-00

Scale: None Date: April, 2000

SHEET No. 1 OF 1 SHEETS