STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-H1-1(225)	2000	2	37

STANDARD PLAN NO.	1	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	r03/06/8
D-02	Chain Link Fence Without Toprail	r07/26/9
D-03	Wire Fence With Metal Posts	07/01/8
D-04 •	Typical Details of Curbs and/or Gutters	07/01/8
D-05 •	Typical Details of Reinforced Concrete Drop Driveway	07/01/8
D-06	Centerline and Reference Survey Monument	07/01/
D-07	Street Survey Monument	07/01/
D-08	Landscaping Shrub and Tree Planting	07/01/
D-09 ·	Field Office	07/01/
D-10	Field Office	07/01/
D-11 ·	Project Site Laboratory	07/01/
D-12	Project Site Laboratory	07/01/
D-13	Field Office & Project Site Laboratory	07/01/8

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 10/16/90 H-17 Inlet Structures 10/16/90 H-18 Flared End Section for Culverts 07/01/86 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 10/16/90 H-23 Hat Shaped Coupling Band 11/16/90	H-01	Type A. B. C and D 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-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" Sl			
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-20 Concrete Spillway Inlet 07/01/86 H-21 18" Slotted C.M.P. Drain 07/01/86 H-22 C.M.P. Coupling D			
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	-	**	
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-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-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-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		Catch Basin and Manhole Casting	
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-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-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-11		
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-12	Type 61616 Grated Drop Inlet	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-13	61214, 61614 & 61616 Steel Frames 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-14 ·	61214B Steel Frame and Grates	07/01/86
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-15 ·	61614B Steel Frame and Grates	07/01/86
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-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-19Outlet Structuresr02/15/91H-20Concrete Spillway Inlet07/01/86H-2118" Slotted C.M.P. Drain07/01/86H-22C.M.P. Coupling Details Standard Jointr10/16/90	H-17	Inlet Structures	r10/16/90
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-18	Flared End Section for Culverts	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-19	Outlet Structures	r02/15/91
H-22 C.M.P. Coupling Details Standard Joint r10/16/90	H-20	Concrete Spillway Inlet	
	H-21	18" Slotted C.M.P. Drain	07/01/86
H-23 Hat Shaped Coupling Band r10/16/90	H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
	H-23	Hat Shaped Coupling Band	r10/16/90

STAND PLAN		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)	r09/01/8
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

NOTE:

STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO. (FOR EXAMPLE: D-O7 ●)

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 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
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

07/18/94 | REVISED TE-68 & TE-69

TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64 REVISION DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STANDARD PLANS SUMMARY

INTERSTATE ROUTE H-1 Seismic Retrofit for Lunalilo-Vineyard Off-Ramp, Makiki Viaduct and Palama Separation Federal Aid Project No. BR-H1-1(225) Date: Aug., 1999

SHEET No. 1 OF SHEETS

