

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-92M	1992	2	32

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

02/15/91	REVISED STANDARD PLANS 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  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

ALA MOANA BOULEVARD  
RESURFACING  
Keawe Street to Kalakaua Avenue  
Project No. 92AB-01-92M  
Date: Feb. 1992

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

QUANTITIES BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

ORIGINAL PLAN \_\_\_\_\_

NOTE BOOK \_\_\_\_\_

IN \_\_\_\_\_



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HAWAII	HAW.	92AB-01-92M	1992	3	32

GENERAL NOTES

1. The project is on Ala Moana Boulevard from Keawe Street to Kalakaua Avenue. The scope of work for this project consists of reconstructing weakened pavement areas, asphalt concrete and portland cement concrete; adjusting manhole/valve frames and covers; adjusting centerline and reference survey monuments; cold planing; resurfacing; and installing loop detectors, signs and pavement markings.
2. The Contractor shall keep all traffic lanes open to public traffic during the peak hours. The peak hours are from 5:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 7:00 p.m.
3. The existence and location of underground utilities, manholes, valves, monuments and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or completeness. The Contractor shall be responsible for and pay for all damages to existing utilities resulting from his operations.
4. The Contractor shall remove and dispose of all existing traffic detectors and magnetic loop detectors. This work shall be considered incidental to excavation for reconstruction of weakened pavement areas and will not be paid separately.
5. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
6. Prior to cold planing over an existing structure, the Contractor shall determine the actual depth of the existing asphalt concrete pavement. The Contractor shall take several cross section measurements throughout the structure. If the thickness of the existing pavement is less than the proposed resurfacing thickness, the Contractor shall remove the existing pavement to the level of the structure and resurface to the original thickness.
7. In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure especially the slab, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operations shall be repaired by the Contractor at his own expense. Repair work shall be as directed by the Engineer. The Contractor shall verify the existing pavement thickness by hand digging at various locations. This work shall be considered to be incidental to cold planing.
8. The exact number and location of manholes, handholes, water valve boxes, etc. which will be adjusted, flush to the new roadway elevation, shall be determined in the field by the Engineer.
9. The exact limits and locations of curb and/or gutter which will be reconstructed shall be determined in the field by the Engineer.
10. The Contractor's attention is directed to Subsection 103.03 - Award of Contract and Subsection 107.13 - Public Convenience and Safety of these Specification and Special Provision.

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the Standard Specifications For Road And Bridge Construction, dated 1985, as amended, of the Hawaii Highways Division, Department of Transportation, and the City and County of Honolulu Board of Water Supply's "Water System Standards" Volume 1, Dated 1985, and The "Approved Material List and Standard Details For Water System Construction", Volume 2, Dated 1985, and all subsequent amendments and additions.
2. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings, drainage, etc., and other features of improvements shall not be the responsibility of the Board of Water Supply.
3. The Contractor shall notify BWS Planning and Engineering Division, Construction Section one week prior to commencing work on the water system.
4. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all the damages to existing utilities.

Prior to installation, the Contractor shall submit for approval by Board of Water Supply, the manufacturer's certification that all cast iron (gray or ductile) fittings for the project conform in all respects to the Water Systems Standards, Dated 1985.

Polygon shape for mechanical joint glands as described in AWWA Standard C111 shall be "straight-sided" or an approved equal on a job to job basis.
5. Re-approval shall be required if this project is not under construction within a period of two years.
6. Any adjustments to the existing water system required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

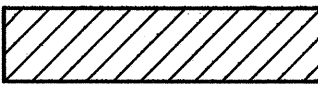


DRAINAGE NOTES:

1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. The cost for this work shall be incidental to the various Contract Items.
2. Concrete shall be Class A unless otherwise noted.
3. Chamfer all exposed concrete edges 1".
4. Demolishing, removing and disposing a portion of the existing drainage structures shall not be paid for separately, but shall be considered incidental to the various contract items.

P.C.C. PAVEMENT RECONSTRUCTION NOTES

1. All areas to be removed shall be saw cut at the joints whenever possible.
2. The transverse construction joint detail on the plans shall be used to tie the repaired areas to the existing slabs, except that the bars are to be epoxyed into holes drilled in the existing slabs.
3. The transverse weakened plane joint detail on the plans shall be used to saw cut the new slabs.
4. The joints in the new slabs shall be located a minimum of 10' and a maximum of 15' from the nearest joint.
5. All new slabs that have a manhole shall be reinforced. (Please see sheet no. 32 for details).
6. All cracks 1/8" or greater in slabs that are not to be removed shall be cleaned and sealed with an A.C. crack sealer.
7. The Contractor is directed to Sub-Section 411.03(S), pertaining to when pavement is allowed to be opened to traffic.

LEGEND

- w—8"— Existing Water Line  
—g—2"— Existing Gas Line  
—t— Existing Telephone Line  
—e— Existing Electric Line  
—s—24"— Existing Sewer Line  
○ smh Existing Sewer Manhole  
○ sdmh Existing Storm Drain Manhole  
○ emh/hemh Existing Electric Manhole/  
Hawaiian Electric Manhole  
○ gmh Existing Gas Manhole  
○ tmh/htmh Existing Telephone Manhole/  
Hawaiian Telephone Manhole  
○ wmh Existing Water Manhole  
○ wv Existing Water Valve  
⊙ Existing City & County Monument  
||||| d1 Existing Drain Inlet  
 9" Reconstruction Area  
 Reconstruction P.C.C. Area  
 Limits of Project

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**GENERAL, WATER, DRAINAGE &  
P.C.C. PAV'T. NOTES & LEGEND**  
**ALA MOANA BLVD RESURFACING**  
**Keawe Street to Kalakaua Avenue**  
**Project No. 92AB-01-92M**  
Scale: As Shown Date: April, 1992  
SHEET No. 1 OF 1 SHEETS