STANDARD PLANS SUMMARY

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	F - 064 - 1(2)	1987	2	151

Standard Plan No.	Title		Date
B-01 •	Notes and Miscellaneous Details		07/01/8
B-02			
B-03	Typical Structure Excavation and Backfill Pay Limits		07/01/
B-04		ı	
B-05			
B-06	Concrete Box Girder		07/01/
B-07	Concrete Box Girder		07/01/
B-08	Concrete Box Girder	,	07/01/
B-09			-
B-10			
B-11			-
B-12	Prestressed Concrete Piles		07/01/
B-13	Prestressed Concrete Piles		07/01/

'		
D-01	Chain Link Fence With Toprail	r 03/06/87
D-02	Chain Link Fence Without Toprail	07/01/86
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	07/01/86
H-17	Inlet Structures	07/01/86
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	07/01/86
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C. M. P. Drain	07/01/86
. Н-22	C. M. P. Coupling Details Standard Joint	07/01/86
H-23	Hat Shaped Coupling Band	07/01/86

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	07/01/86
TE-05	Warning Signs	07/01/86
TE-06	Miscellaneous Signs	07/01/86
TE-07	Reserved	07/01/86
TE-08	Construction Signs	07/01/86
TE-09	Miscellaneous Intersection Signs	r 03/06/87
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	Destination & Ground Mounted Expressway Signs	07/01/86
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	07/01/86
TE-31	Miscellaneous Pavement Markings	07/01/86
TE-32	Miscellaneous Pavement Markings	07/01/86
TE-33	Miscellaneous Pavement Markings	07/01/86
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	07/01/86
TE-39	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r 03/06/87
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	r 03/06/87
TE-51	Metal Guardrail	r 03/06/87
TE-52	Metal Guardrail with Rubrail	07/01/86
TE-53	Metal Guardrail with Rubrail at Obstruction	07/01/86
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	07/01/86
TE-55	Metal Guardrail Connection to Concrete Barrier	07/01/86
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r 03/06/87
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r 03/06/87
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r 03/06/87
TE-62	Breakaway Cable Terminal (BCT)	07/01/86
TE-63	Guardrail Type 4 (Rigid Barrier)	r 03/06/8
TE-64 ●	Portable Concrete Guardrail	r 03/06/8
TE-65	Reserved	07/01/86
TE-66 ●	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	07/01/86
TE-69	Wheelchair Ramps	07/01/86
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NOTES:

I. STATE STANDARD DETAILS REFERRED TO IN THESE PLANS SHALL REFER TO THE APPROPRIATE STANDARD PLANS.

2. 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

SAND ISLAND ROAD WIDENING 2ND BRIDGE AND APPROACHES FEDERAL AID PROJECT NO. F-064-I(2)

SCALE: AS NOTED DATE: JUN, 1986

SHEET No. T-2 OF 2 SHEETS

03/06/87 REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 AND TE-64.

REVISION DATE

CONSTRUCTION NOTES

- 1. Azimuths and Coordinates are referred to North Base coordinate system.
- 2. Elevations are referred to Mean Sea Level datum.
- 3. The Contractor shall obtain and pay for the grading permit from the City and County of Honolulu Division, of Engineering, prior to commencement of grading work.
- 4. All grading work shall conform to Chapter 23, Revised Ordinances of Honolulu 1978, as amended by Ordinance No. 3968, 4294, & 4538 and soils reports by F.G.E., Ltd. dated June 3, 1982 "Substructure Investigation Reports - Proposed Sand Island Road Improvements and Second Bascule Bridge, Honolulu, Oahu, Hawaii", and dated February 14, 1984 "Subsurface Investigation Report, Proposed Fixed - Span Bridge, Sand Island Access Road Improvements, Honolulu, Oahu, Hawaii", and any subsequent revisions.
- 5. The Contractor shall at his expense remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Engineer shall be payable by the Contractor.
- 6. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards and regulations of the State Department of Health.
- 7. All grading operations shall be performed in conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health.
- 8. Fills on slopes steeper than 5:1 shall be keyed.
- 9. The City and County of Honolulu shall be informed of the location of the borrow and/or disposal site for the material for the project when the application for a grading permit is made. The borrow and/or disposal site must also fulfill the requirements of the Grading Ordinance.
- 10. All slopes and exposed areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area, within which work has been interrupted or delayed, shall be planted.
- 11. Temporary Erosion Control Procedures shall be submitted for approval prior to application for a grading permit.
- 12. No grading work shall be done on Saturdays, Sundays, and holidays at any time without prior approval of the Chief Engineer, Division of Engineering, Department of Public Works, City & County of Honolulu.
- 13. 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 damages to existing utilities. Wherever connections of new utilities to existing utilities are shown on the plans, Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 14. Temporary erosion controls shall not be removed before permanent erosion control measures are in-place and established.
- 15. The limits of the area to be graded shall be flagged before the commencement of the grading work.

HAWAIIAN INDEPENDENT REFINERY INCORPORATED (HIRI) OIL LINE NOTES

- 1. An excavation permit is required for all construction or installations within 10' of the HIRI pipelines. The permit form is available at the office of the Superintendent of Maintenance and Construction, HIRI Refinery at Campbell Industrial Park. Telephone: 682-4505. A complete set of final construction drawings covering the installation or construction must be presented when requesting the permit form. These drawings shall be retained until such time that the project "as built" drawings are made available.
- 2. The Superintendent of Maintenance and Construction, HIRI, shall be notified at least 48 hours prior to excavation in order that a HIRI representative can locate the HIRI pipelines.
- 3. The Contractor shall excavate and backfill only in the presence of a HIRI representative. Backfill cushion shall be inorganic sand consisting of at least a 6" depth entirely around the pipeline.
- 4. The Contractor shall submit to the Superintendent of Maintenance and Construction, HIRI, proposed procedures, description of materials and equipment to be used, and sequence of work. The Contractor shall be responsible to, and bear all costs to restore any portions of HIRI pipelines damaged during construction. No repair work shall be started prior to obtaining approval from HIRI.

HONOLULU FUELING FACILITIES CORPORATION (HFFC) OIL LINE NOTES

- The Superintendent of Operations (836-1381) LOCKHEED AIR TER-MINAL INC. (LAT) shall be notified at least 48 hours prior to excavation.
- 2. The Contractor shall excavate and backfill only in the presence of a LAT representative. Backfill cushion shall be inorganic sand consisting of at least a 6" depth entirely around the pipeline.
- 3. The Contractor shall submit to the Superintendent of Operations (836-1381) LAT, proposed procedures, description of materials and equipment to be used, and sequence of work. The Contractor shall be responsible to, and bear all costs to restore any portions of LAT pipelines damaged during construction. No repair work shall be started prior to obtaining approval from LAT.
- When constructing new wall at the corner of Road No. I and Sand Island Access Road, the Contractor shall maintain the integrity of the containment system at all times. Maintenance of the containment system shall be incidental to the various contract items. All aboveground & underground electrical & water lines should be relocated before constructing the new wall.

FED. ROAD STATE FED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR DIST. NO. NO. SHEETS HAWAII HAW. F-064-1(2) 1987 3 151

TEMPORARY EROSION CONTROL PROCEDURE

- 1. Clear and grub project site. (Jan. 6 Feb. 28, 1987).
- 2. Install temporary filter berm around existing drain inlets. See Detail Sheet D-25. (Jan. 13-31, 1987).
- 3. Grade and Construct Road Embankment. Install permanent drainage system, utilities, and road bed, including base course. (Jan. 20, 1987 - May 31, 1988).
- 4. Complete grassing for areas not to receive pavement or structures (March 3, 1987 - May 31, 1988).
- 5. Remove temporary erosion control measures, grade all disturbed areas to final contours, and grass exposed areas as final contours are established. (March 1 - May 31, 1988).
- 6. Contractor shall submit a revised temporary control procedure for approval to the Division of Engineering should dates appearing in the procedure change.

ADDENDUM NOTE:

I. All references to Bike Lane shall be ammended to read Bike Route.

Honolulu Fueling Facilities Corp.

3-17-87

Approved for Grading Only:

Director & Chief Engineer, DPW

Chief, Division of Engineering, DPW ww

6/27/86 Date

6/26/86

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

REGISTERED

PROFESSIONAL

No. 2447-C

ENGINEER

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

Addendum No. I

NOTES

SAND ISLAND ROAD WIDENING 2ND BRIDGE AND APPROACHES FEDERAL AID PROJECT NO. F-064-I(2)

5/15/87 Added Note regarding Bike Route per

STATE OF HAWAII

REVISION

SCALE: AS NOTED

DATE

DATE: JUN, 1986

SHEET No. 1 OF 2 SHEETS

		Existing (Con't	
	LEGEND	WMH	Water Manhole
		WM	Water Meter
Existing		WV	Water Valve
AC	Asphalt Concrete	WVB	Water Valve Box
c/o	Clean Out		Waterline
CRM	Concrete Rubble Masonry		
D _{16"}	Drainline	New	
E	Electrical Line	 СВ	Catch Basin
EMH	Electrical Manhole	Cu.	Copper
FH	Fire Hydrant	$R-2$ or \bigcirc $B-6$	Boring Location
FM _{24"}	Force Main	□ DI	Drain Inlet
———F0——	Fuel Oil Line	D _{24"}	Drainline
G	Gas Line	NPP	New Power Pole
—H.I.R.I. _{12"}	Hawaiian Independent Refinery, Inc. Line	PCC	Portland Cement Concrete
H.E.Co.	Hawaiian Electric Company	4 4 4 4	Drainage Pattern
H.T.Co.	Hawaiian Telephone Company		
HW	Headwall		
——Н.F.F.С.	Honolulu Fuel Facilities Corp. Line		
LP	Light Pole		
MH	Manho le		
PP	Power Pole		
R/W	Right-of-Way		
SFM ₂₄ "	Sewer Force Main		
SMH	Sewer Manhole		
S _{8"}	Sewerline		
SHOC _{O''}	Shell Oil Company Line		
SHOC MH	Shell Oil Company Manhole		
scc-	Signal Corps Cable		
SCMH	Signal Corps Manhole		
Sig. Lt. or Sg. Lt.	Signal Light		
Spr. Box	Sprinkler Box		
SDMH	Storm Drain Manhole		
——ЕСР ——	Submarine Cable		
Tr. Sig. Lt.	Traffic Signal Light		•
Ut. Box	Utility Box		
Ut. Pole	Utility Pole		

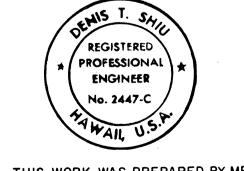
FISCAL SHEET TOTAL YEAR NO. SHEETS FED, AID PROJ. NO. FED. ROAD DIST. NO. STATE

DATE STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

FEDERAL AID PROJECT NO. F-064-I(2)

<u>LEGEND</u>

SAND ISLAND ROAD WIDENING 2ND BRIDGE AND APPROACHES

SCALE: AS NOTED

DATE: JUN, 1986

SHEET No. 2 OF 2 SHEETS