FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	2	1102

# STANDARD PLANS SUMMARY

STANDARD PLANS 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
		07/00/0
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 • D−05	Typical Details of Curbs and/or Gutters  Typical Details of Reinforced Concrete Drop Driveway	07/01/86 07/01/86
D-05 D-06	Centerline and Reference Survey Monument	07/01/86
D-00 D-07 ●	Street Survey Monument	07/01/86
D-07 • D-08 •	Landscaping Shrubs 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 61614 Grated Drop Inlet	07/01/86
H−13 •	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frames and Grates	07/01/86
H-15	61614B Steel Frames and Grates	07/01/86
H−16 ●	Concrete and Cement Rubble Masonry Structure	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 PLANS 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	r03/06/8
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)	
TE-25 ●	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27 ●		07/01/86
	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28 ●	Guide Signs Luminaire Mountings  Reserved	07/01/86
TE-29		07/01/86
TE-30 ●	Raised Pavement Markers and Striping	r05/09/9
TE−31 •	Miscellaneous Pavement Markings	r05/09/9
TE-32 ●	Miscellaneous Pavement Markings	r05/09/9
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 Signals System, Miscellaneous Details	r11/03/89
TE-39	Traffic Signals 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	TITLE	DATE
PLANS NO.		
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 of Obstruction	r09/01/87
TE-54 ●	Beam Type Guardrail with Rubrail of 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 of Bridge	07/01/86
TE-68 ●	Wheelchair Ramps	r11/03/89
TE-69 ●	Wheelchair Ramps	r11/03/89
	L	

02/15/91 | REVISED STANDARD PLANS H-19 | REVISED STANDARD PLANS H-16,H-17, H-22 & H-23. | REVISED STANDARD PLANS D-02. | REVISED STANDARD PLANS B-12,B-13 | REVISED STANDARD PLANS TE-30,TE-31, & TE-32 | 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 TE-04,TE-06 | TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-61, TE-69. | REVISED STANDARD PLANS TE-04,TE-06 | TE-08, TE-57, TE-59, TE-62, TE-63, TE-65, & TE-69. | REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63, & TE-64. |

NOTE: STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "●" NEXT TO THE STANDARD PLAN NO.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

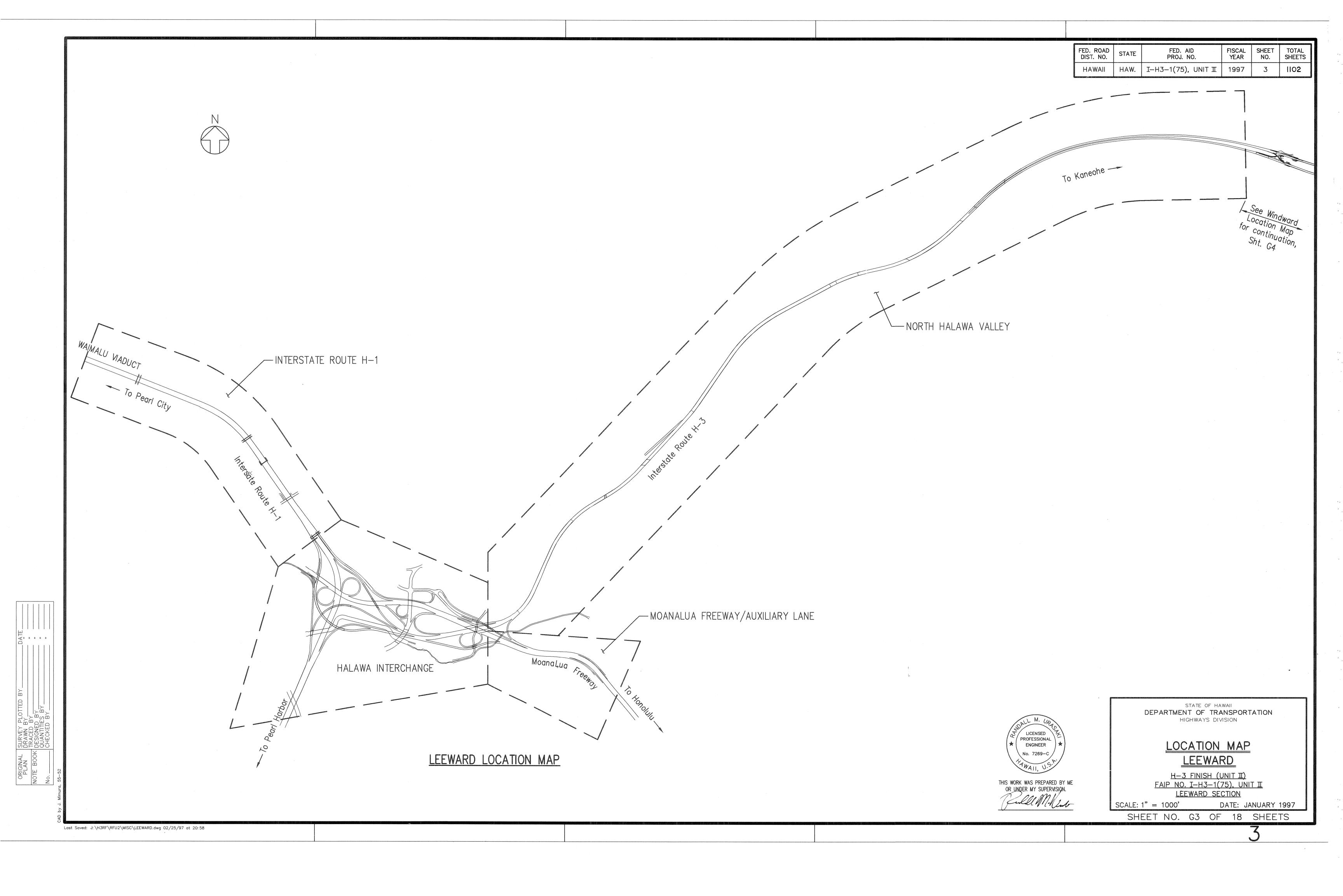
HIGHWAYS DIVISION

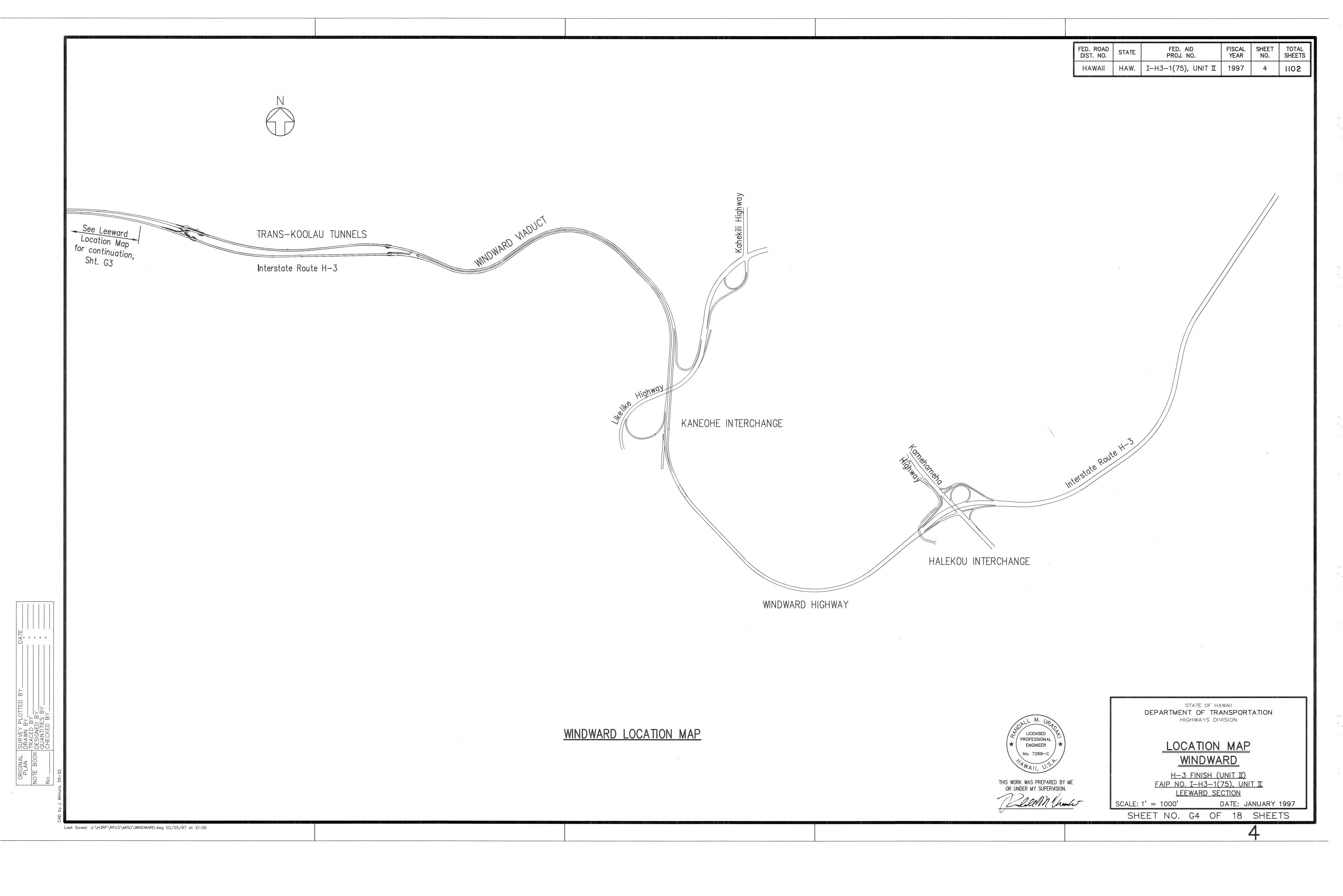
SUMMARY STANDARD PLANS

LI 7 FINICIA (LINIT TO

H-3 FINISH (UNIT II)
FAIP NO. I-H3-1(75), UNIT II
LEEWARD SECTION

SCALE: NONE DATE: JANUARY 1997
SHEET NO. G2 OF 18 SHEETS





				FED. ROAD STATE FED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS
SHEET SHEET NO. TITLE	SHEET SHEET NO	<u>TITLE</u>	SHEET SHEET NO. TITLE	HAWAII HAW. I—H3—1(75), UNIT II 1997 5 1102
VOLUME 1	52 1A 28	Alignment: Ramp F and Ramp M		-1 Sta. 198+00 to 209+00
O OFNEDAL		Alignment: Ramp F	112 1D 10 Drainage & Grading Plan De	
G. GENERAL	ADD 55 1A 30		ADD. 113 1D 11 Drainage & Grading Plan: C ADD. 113S—1 1D 11A Drainage & Grading Plan: C	·
1 G 1 Title Sheet: Volume 1 of 2	ADD. 55 1A 31	Alignment: Olongna Street	ADD. 1133-1 1D 11A Drainage & Grading Plan: C	
2 G 2 Summary Standard Plans		Alignment: Olopana Street Alignment: Olopana Street	C.O. ADD. 114S-1 1D 12A Drainage & Grading Plan: C	
3 G 3 Location Map: Leeward		Alignment: Aiea Heights Drive	115 1D 13 Drainage & Grading Plan: M	
4 G 4 Location Map: Windward	59 1A 35		116 1D 14 Drainage & Grading Plan: M	
ADD. 5 G 5 List of Plans — 1	60 1D 1	Construction Physing: Interstate Pouts H 1	ADD. 116S—1 1D 14A Halawa Heights Stream: Inle	, was the second of the second
ADD. 6 G 6 List of Plans — 2	61 1B 2	Construction Phasing: Interstate Route H—1 Construction Phasing: Aiea Heights—Phase 1	117 1D 15 Drainage & Grading: Draina	
ADD. 7 G 7 List of Plans — 3 ADD. 8 G 8 List of Plans — 4	62 1B 3	Construction Phasing: Aiea Heights—Phase 2	118 1D 16 Drainage & Grading: Draina 119 1D 17 Drainage Profiles: Drainlines	
ADD. 8 G 8 List of Plans — 5	63 1B 4	Construction Phasing: Aiea Heights—Phase 3	120 1D 18 Drainage Profiles: Drainlines	•
ADD. 10 G 10 List of Plans — 6	C.O. 64 1B 5	Construction Phasing: Aiea Heights—Phase 4	ADD. 121 1D 19 Drainage Profiles: Drainlines	
ADD. 11 G 11 List of Plans — 7	65 1B 6	Construction Phasing: Aiea Heights—Phase 5	ADD. 122 1D 20 Drainage Profiles: Drainlines	
ADD. 12 G 12 List of Plans — 8	67 1B 8	Construction Phasing: Aiea Heights—Phase 6	123 1D 21 Drainage Details: Lined Drai	
ADD. 13 G 13 List of Plans — 9	ADD. 68 1B 9	Construction Phasing: Aiea Heights—Phase 7 Construction Phasing: Aiea Heights—Phase 8	124 1D 22 Drainage Details: Drainage I 125 1D 23 Drainage Details: Drainage I	The state of the s
14 General Abbreviations and Legend C.O.15 Grading Notes, Erosion and Sediment Control Measures	ADD. 69 1B 10	Construction Phasing: Alea Heights—Phase 9	126 1D 24 Drainage Details: Drainage I	
C.O.15 Grading Notes, Erosion and Sealment Control Medsures  C.O.16 G 16 Utility Abbreviations, Legend and Notes	70 1B 11	Construction Phasing: Aiea Heights—Phase 10	127 1D 25 Drainage Details: Drainage I	
C.O.ADD, 17 G 17 Utility Notes: Water, <del>Sewer</del> and Gas	71 1B 12	Construction Phasing: Aiea Heights—Phase 11	ADD. 127S—1 1D 25A Drainage Details: Drainage I	Ditch Transitions
ADD. TO GITO Othicly Notes: Cable relevision, Electric and relephone	72 1B 13	Construction Phasing: Aiea Heights—Phase 12	128 1D 26 Drainage Details: Type A Gr	
C.O. 18S-I G I8A General Notes	73 1B 14	Construction Phasing: Aiea Heights—Phase 13	ADD. 128S—1 1D 26A Drainage Details: Type D Gr 129 1D 27 Drainage Details: Type B Gr	
1. INTERSTATE ROUTE H-1	74 1B 15 75 1B 16	Construction Phasing: Aiea Heights—Phase 14 Construction Phasing: Aiea Heights—Phase 15	130, 130, 128 Drainage Details: Type C GI	Ol, Concrete Protection
10 1C 1 Location Man	70 15 10		C.O. 1305-1 130 ID28A 1D 28 Drainage Details: Type C GE Drainage Details: Type A Ou	utlet Structure Drainage Details
19 1G 1 Location Map	76 1C 1	Roadway Construction Notes, Legend and Abbreviations	132 1D 30 Drainage Details: Type B &	
20 1T 1 Typical Section: Interstate Route H—1	77 IC 2	Roadway Construction: H-1 Sta. 124+00 to Sta. 133+00 Roadway Construction: H-1 Sta. 133+00 to Sta. 145+00	133 1D 31 Drainage Details: Type B 0t	utlet Structure
21 1T 2 Typical Section: Interstate Route H—1	ADD. 79 1C 4	Roadway Construction: H-1 Sta. 135+00 to Sta. 145+00  Roadway Construction: H-1 Sta. 145+00 to Sta. 157+00	134 1D 32 Drainage Details 135 1D 33 Drainage Summary	
ADD. 21S—1 1T 2A Typical Section: Interstate Route H—1 22 1T 3 Typical Section: H—1 and Ramp D	ADD. 80 1C 5	Roadway Construction: H-1 Sta. 157+00 to Sta. 166+00	136 1D 34 Drainage Summary	
23 1T 4 Typical Section: Ramp F and Ramp M	ADD. 81 1C 6	Roadway Construction: H-1 Sta. 166+00 to Sta. 177+00	137 1D 35 Drainage Summary	
ADD. 24 1T 5 Typical Section: Olopana Street	82 1C 7	Roadway Construction: H-1 Sta. 177+00 to Sta. 187+00	138 1D 36 Drainage Summary	
	83 10 8	Roadway Construction: H-1 Sta. 187+00 to Sta. 198+00	139 1D 37 Drainage Summary	
25 1A 1 Alignment: H—1 Sta. 121+00 to Sta. 133+00 26 1A 2 Alignment: H—1 Sta. 133+00 to Sta. 145+00	84 1C 9 ADD. 85 1C 10	Roadway Construction: H-1 Sta. 198+00 to Sta. 209+00 Roadway Construction: Olopana Street	140 1D 38 Drainage Summary	
27 1A 3 Alignment: H-1 Sta. 145+00 to Sta. 157+00	ADD. 86 1C 11	Roadway Construction: Olopana Street	ADD. 141 1D 39 Drainage Summary ADD. 142 1D 40 Drainage Summary	
28 1A 4 Alignment: H—1 Sta. 157+00 to Sta. 166+00		Roadway Construction: Olopana Street	ADD. 143 1D 41 Drainage Summary	
29 1A 5 Alignment: H—1 Sta. 166+00 to Sta. 177+00	ADD. 88 1C 13		ADD. 144 1D 42 Drainage Summary	
30 1A 6 Alignment: H-1 Sta. 177+00 to Sta. 187+00	89 1C 14	,	145 1D 43 Underdrain: H—1 Sta. 121+0	
C.O. 31 1A 7 Alignment: H—1 Sta. 187+00 to Sta. 198+00 32 1A 8 Alignment: H—1 Sta. 198+00 to Sta. 209+00	90 10 15	,	146 1D 44 Underdrain: H-1 Sta. 133+	
C. O. 33 1A 9 Alignment: H—1 Sta. 209+00 to Sta. 209+00	91 1C 16 92 1C 17	Profilograph Profilograph	147 1D 45 Underdrain: H—1 Sta. 145+ 148 1D 46 Underdrain: H—1 Sta. 157+	
34 1A 10 Alignment: H-1 Sta. 219+00 to Sta. 230+00	93 1C 18		148 1D 46 Underdrain: H—1 Sta. 157+ 149 1D 47 Underdrain: H—1 Sta. 166+	5
35 1A 11 Profile & Superelevation Diagram	94 1C 19	<i>3</i> 1	150 1D 48 Underdrain: H-1 Sta. 177+	
36 1A 12 Profile & Superelevation Diagram	95 1C 20	,	151 1D 49 Underdrain: H-1 Sta. 187+	8
37 1A 13 Profile & Superelevation Diagram	ADD. 96 1C 21	Roadway Construction Details	152 1D 50 Underdrain: H-1 Sta. 198+	00 to Sta. 209+00
38 1A 14 Profile & Superelevation Diagram 39 1A 15 Profile & Superelevation Diagram	ADD. 97 1C 22 98 1C 23	,	153 1D 51 Underdrain Details	
40 1A 16 Profile & Superelevation Diagram	99 1C 23	,	154 1D 52 Underdrain Details 155 1D 53 Underdrain Details	
41 1A 17 Profile & Superelevation Diagram	100 1C 25	•	156 1D 54 Underdrain Summary	5/2/97 Revised and Added Sheet Numbers
42 1A 18 Profile & Superelevation Diagram	101 1C 26	Roadway Construction Details	in the second se	and Titles 4/21/97 Revised and Added Sheet Numbers
43 1A 19 Spot Elevations & Construction Joints		Roadway Construction Details		and Titles
44 1A 20 Spot Elevations & Construction Joints 45 1A 21 Spot Elevations & Construction Joints	ADD. 102S-1 1C 27/ADD. 102S-2 1C 27/	·		Date Revision
46 1A 22 Spot Elevations & Construction Joints 46 1A 22 Spot Elevations & Construction Joints	ADD. 1025-2 1C 270 ADD. 102S-3 1C 270			STATE OF HAWAII  DEPARTMENT OF TRANSPORTATION
47 1A 23 Spot Elevations & Construction Joints	4.0-		CALL M. UP	HIGHWAYS DIVISION
48 1A 24 Spot Elevations & Construction Joints	103 1D 1	Drainage & Grading Notes	LICENSED PROFESSIONAL	
49 1A 25 Spot Elevations & Construction Joints	104 1D 2 105 1D 3	Drainage & Grading Plan: H-1 Sta. 124+00 to 133+00 Drainage & Grading Plan: H-1 Sta. 133+00 to 145+00	★ ENGINEER No. 7269-C	<u>LIST OF PLANS - 1</u>
50 1A 26 Spot Elevations: Ramp D	105 1D 3	Drainage & Grading Plan: H-1 Sta. 135+00 to 145+00  Drainage & Grading Plan: H-1 Sta. 145+00 to 157+00	NO. 1209-C	
51 1A 27 Spot Elevations: Ramp D	107 1D 5	Drainage & Grading Plan: H-1 Sta. 157+00 to 166+00	WAII, O.	H-3 FINISH (UNIT II)
	108 1D 6	Drainage & Grading Plan: H-1 Sta. 166+00 to 177+00	THIS WORK WAS PREPARED BY ME OR—UNDER MY SUPERVISION.	FAIP NO. I—H3—1(75), UNIT II LEEWARD SECTION
	109 1D 7	Drainage & Grading Plan: H-1 Sta. 177+00 to 187+00	Kulel UM. Mule	SCALE: NONE DATE: JANUARY 1997
ÅQ QV	110 1D 8	Drainage & Grading Plan: H-1 Sta. 187+00 to 198+00		SHEET NO. G5 OF 18 SHEETS

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ADD. 5

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SHEET SHEET NO. TITLE	<u>SHEET</u> <u>S</u>	HEET NO.	<u>TITLE</u>	CHEET	CHEET NA	· TITLE	FED. ROAD STATE FED. AID PROJ. NO.	FISCAL SHEET TOTAL YEAR NO. SHEETS
	C.O. 205S-I	IP IOA	Construction Zone: Interstate Route H-I: Ph.		SHEET NO	<u>).</u> <u>TITLE</u>		
157 1R 1 Erosion Control: H—1 Sta. 121+00 to Sta. 133+00	206	1P 11	Construction Zone: Interstate Route H-1: Ph.				HAWAII HAW. I—H3—1(75), UNIT	II   1997   6   1102
158 1R 2 Erosion Control: H—1 Sta. 133+00 to Sta. 145+00	207	1P 12	Construction Zone: Interstate Route H-1: Ph.	B C.O. 265	1P 70	Signing & Pavement Marking	g: H-1 Sta. 166+00 to Sta. 177+0	0
159 1R 3 Erosion Control: H-1 Sta. 145+00 to Sta. 157+00	208	1P 13	Construction Zone: Interstate Route H-1: Ph.			-	ig: H—1 Sta. 177+00 to Sta. 177+0	
							•	
	209	1P 14	Construction Zone: Interstate Route H—1: Ph.			•	g: H—1 Sta. 187+00 to Sta. 198+0	
161 1R 5 Erosion Control: H—1 Sta. 166+00 to Sta. 177+00	210	1P 15	Construction Zone: Interstate Route H-1: Ph.	B C.O. 268	1P 73	Signing & Pavement Marking	ig: H−1 Sta. 198+00 to Sta. 209+0	00
162 1R 6 Erosion Control: H—1 Sta. 177+00 to Sta. 187+00	211	1P 16	Construction Zone: Interstate Route H-1: Ph.	B C. O. 269	1P 74	Signing & Pavement Marking	ig: H-1 Sta. 209+00 to Sta. 219+0	00
163 1R 7 Erosion Control: H—1 Sta. 187+00 to Sta. 198+00	212	1P 17	Construction Zone: Interstate Route H-1: Ph.		1P 75	Signing & Pavement Marking	g: H-1 Sta. 219+00 to Sta. 230+0	C. O. 269S-I IP 74A
164 1R 8 Erosion Control: H-1 Sta. 198+00 to Sta. 209+00		1P 18				•		orgining on avenient
	213		Construction Zone: Interstate Route H—1: Ph.			A Signing & Pavement Marking		Marking: Ramp D
165 1R 9 Erosion Control: Moanalua Freeway and Ramp M	214	1P 19	Construction Zone: Interstate Route H—1: Ph.			3 Signing & Pavement Markine		
166 1R 10 Erosion Control: Ramp M	215	1P 20	Construction Zone: Interstate Route H-1: Ph.	C1 ADD. 2709	S-3 1P $750$	C Signing & Pavement Marking	gs: Interstate Route H-3	
	216	1P 21	Construction Zone: Interstate Route H-1: Ph.			D Signing & Pavement Markine	<del>-</del>	
C.O.167 1U 1 Utilities: Location Map	217		Construction Zone: Interstate Route H-1: Ph.			E Signing & Pavement Marking	<b>U</b>	
							-	
	218	1P 23	Construction Zone: Interstate Route H—1: Ph.		•		gs: Moanalua Freeway & Ramp M	
C.O. ADD. 169 1U 3 Utilities: Location Map	219	1P 24	Construction Zone: Interstate Route H—1: Ph.	C1 ADD. 2709	S-7 1P 750	G Signing & Pavement Marking	gs: Moanalua Freeway	
C.O.170 1U 4 Utilities: Location Map	220	1P 25	Construction Zone: Interstate Route H—1: Ph.	C1 ADD. 2709	S-8 1P 75H	H Signing & Pavement Marking	g: Aiea Hts. Dr. & Olopana St.	
ADD. 171 1U 5 Utilities: Electric and Telephone	221	1P 26	Construction Zone: Interstate Route H-1: Ph.			Signing & Pavement Marking	·	
ADD. 172 1U 6 Utilities: Electric (Deleted)	222	1P 27	Construction Zone: Interstate Route H-1: Ph.			organing as a deciment marking	go botano	
					4 🗀 4	Transfer A - I I DI NI I	, - d     d	
	223		Construction Zone: Interstate Route H—1: Ph.		1F 1	Traffic Control Plan Notes an	3	
C.O. ADD. 173S—1 1U 7A Utilities: <del>Cable Television Telephone &amp; Cable Television</del>	224	1P 29	Construction Zone: Interstate Route H—1: Ph.		1F 2	Traffic Control Plan: Intersta	te Route H-1: Ph. B1	
COSADD. 173S-2 1U ZB Utilities: Telephone & Cable Television	225	1P 30	Construction Zone: Interstate Route H-1: Ph.	C2 274	1F 3	Traffic Control Plan: Intersta	te Route H-1: Ph. B1	
c.o. G.ADD. 173S-2 10 7B Utilities: Telephone & Cable Television Utlities: Olopana St. C.O. ADD. 174 10 8 Utilities: Waterline 'A'	226	1P 31	Construction Zone: Interstate Route H-1: Ph.		1F 4	Traffic Control Plan: Interstat		
C.O. ADD. 175 1U 9 Utilities: Waterlines 'B', 'C' & 'D' - 1	227		Construction Zone: Interstate Route H—1: Ph.		1F 5	Traffic Control Plan: Interstat		
					15 0		•	
C.O.ADD. 176 1U 10 Utilities: Waterlines 'B', 'C' & 'D' — 2	228	1P 33	Construction Zone: Interstate Route H—1: Ph.		1F 6	Traffic Control Plan: Intersta		
c.o. 177s-ADD. 177 U 11A Utilities: Waterline 'E' Telephone Utilities: Water Laterals 'EA', 'EB', & 'E	FC' 229	1P 34	Construction Zone: Interstate Route H—1: Ph.	C3 278	1F 7	Traffic Control Plan: Intersta	te Route H—1: Ph. B2	
C.O. ADD. 178 10 12 Utilities: Waterline 'F'	230	1P 35	Construction Zone: Interstate Route H-1: Ph.	C3 279	1F 8	Traffic Control Plan: Interstat	te Route H-1: Ph. B2	
C.O. ADD. 179 1U 13 Utilities: Waterline 'G'	231	1P 36	Construction Zone: Interstate Route H-1: Ph.	C4 280	1F 9	Traffic Control Plan: Intersta		
C.O.ADD. 180 1U 14 Utilities: Sewer and Water Plan	232	1P 37	Construction Zone: Interstate Route H—1: Ph.		1F 10		•	
	233		Construction Zone: Interstate Route H—1: Ph.		1F 11	Traffic Control Plan: Interstat		
C.O. ADD. 1815-1 1U 15A Utilities: Sewer and Water Plans C.O. ADD. 182 1U 16 Utilities: Flastric Profiles C.O. ADD. 183 1U 16 Utilities: Flastric Profiles	234	1P 39	Construction Zone: Interstate Route H—1: Ph.	C5 283	1F 12	Traffic Control Plan: Intersta	te Route H-1: Ph. B3	
	/ 37	1P 40	Construction Zone: Interstate Route H-1: Ph.	C5 284	1F 13	Traffic Control Plan: Interstat	te Route H-1: Ph. B3	
C.O. ADD. 182 10 10 Othities: Electric Profiles C.O. 181S-3 IUISC Halawa Valley F	136	1P 41	Construction Zone: Interstate Route H-1: Ph.		1F 14			
O ADD 1970 1 11 17A HUNNING ONLY THE STAND OF	Sewer Plan		Construction Zone: Interstate Route H-1: Ph.			Traine Control Frant. Intersta	ite Noute II I. III. Do	
C.O. 1013 4 1013D Halawa Valley I	toda: riela				. 41 4			
C.O. ADD. 183S-2 1U 17B Utilities: Telephone Profiles Office: Water &			Construction Zone: Interstate Route H—1: Ph.		5 1L 1	Landscape: Planting Plan		
C.O. ADD. 183S-3 1U 17C Utilities: Telephone Profile C.O. 181S-5 1UI5E Aiea Hts. Dr./OI	lapana St.: 239	1P 44	Construction Zone: Interstate Route H-1: Ph.	C5 287	1L 2	Landscape: Planting Plan		
C.O.184 1U 18 Utilities: Sewer Profile \ Utilities: Water	•	1P 45	Construction Zone: Interstate Route H-1: Ph.	C5 C.O. ADD. 288	3 1L 3	Landscape: Planting Plan		
C.O. ADD. 185 1U 19 Utilities: Waterline 'A' Profile	241		Construction Zone: Interstate Route H-1: Ph.			Landscape: Planting Plan		
C.O. ADD. 186 1U 20 Utilities: Waterline 'B' Profile — C.O. 183S-4 IUI7D Utilities: Cable	Television 242							
Describe.	C 2 1 2		Construction Zone: Interstate Route H—1: Ph.			Landscape: Planting Plan		
C.O. ADD. 107 TO ZI Othitles. Waterline C Profile	. 243		Construction Zone: Interstate Route H—1: Ph.			Landscape: Planting Plan		
C.O. ADD. 187S—1 1U 21A Utilities: Waterline 'J' Profile	244	1P 49	Construction Zone: Interstate Route H—1: Ph.	C6 ADD. 292	2 1L 7	Landscape: Planting Plan		
C.O.ADD. 188 1U 22 Utilities: Waterline 'D Profile Telephone C.O.ADD. 189 1U 23 Utilities: Waterline 'E' Profile	245	1P 50	Construction Zone: Interstate Route H-1: Ph.	C6 ADD. 292S	-1 1L 7A	Landscape: Planting Plan		
C.O. ADD. 189 1U 23 Utilities: <del>Waterline</del> 'E' Profile	246	1P 51	Construction Zone: Interstate Route H-1: Ph.			Plant Details, List and Notes		
C.O.ADD. 189S—1 1U 23A Utilities: Water Laterals 'EA' & 'EB' Profile	247	1P 52	Construction Zone: Interstate Route H-1: Ph.		, 120	rant botans, List and motos	•	
CO 1000 0 11107D 1111111 - AAA	Laterals FA' 040				D 40.4			
	I- C Drotilac		Construction Zone: Interstate Route H—1: Ph.			Bridge General Notes		
C. O. ADD. 131 10 23 Othicles. Waterline G Profile	249	1P 54	Construction Zone: Interstate Route H—1: Ph.		5 1S 2	Bridge Quantities & Location	Мар	
C.O.ADD. 192 1U 26 Utilities: Waterline 'H' Profile	250	1P 55	Construction Zone: Interstate Route H-1: Ph.	C7 C.O. 296	1S 3	Aiea Heights Drive: Grade Se	eparation Lengthening: General Plan o	nd Long. Section
ADD. 193 1U 27 Utilities: Waterline Profiles	251	1P 56	Construction Zone: Interstate Route H-1: Ph.		<sup>7</sup> R 1S 4	•	eparation Lengthening: Spot Elevation	•
C.O. ADD. 193S-1 1U 27A Utilities: Water System Details - 1	252	1P 57	Construction Zone: Interstate Route H-1: Ph.			_	eparation Lengthening: Bents #1 and	
C.O. ADD. 193S-2 1U 27B Utilities: Water System Details - 2						•		••
	253	1P 58	Construction Zone: Interstate Route H—1: Ph.		1S 6	_	eparation Lengthening: Bents #1 and	••
C.O.ADD. 193S-3 1U 27C Utilities: Water System Details - 3	ADD. 254	1P 59	Construction Zone: Interstate Route H—1: Ph.		1S 7	•	eparation Lengthening: Bents #1 and	#2 Details — 3
C.O. 193S-4 IU 27D Utilities: Water System Details - 4	ADD. 255	1P 60	Construction Zone: Interstate Route H—1: Ph.	C8 C.O. ADD. 30	1S 8	Aiea Heights Drive: Grade Se	eparation Lengthening: Framing Plan	
C. O. ADD. 193S-5 1U 27E Utilities: Water System Details - 5	ADD. 256	1P 61	Construction Zone: Interstate Route H-1: Ph.	C8		-		
C.O. 193S-6 IU 27F Utilities: Water System Details - 6 C.O. 193S-7 IU 27G Utilities: Water System Details - 6 C.O. 193S-7	257		Construction Zone: Interstate Route H—1: Ph.	•				dded Sheet Numbers
CO ADD 194 111 28 Utilities: Missellaneous Details	ater System 2570 1	1D 60A	Construction Zono: Interstate Deute II 7. DL	1			and Titles	
C.O. ADD. 194 1U 28 Utilities: Miscellaneous Details  C.O. 1935-7 10 276 Utilities, Waterline H'  C.O. ADD. 195 1U 29 Utilities: Electric Manhole and Handhole Envelopes & Detail Reaction Bloom	Details - / ADD 2572	1F 0ZA	Construction Zone, interstate Koute H-3: Ph.	. I			4/21/97 Revised and A	dded Sheet Numbers
C.O. ADD. 195 TO 29 Utilities: Electric Manhole and Handhole Envelopes & Detail Reaction Blo	ock Details ADD, 25/5-2	IP 62B	Construction Zone: Interstate Route $H-3$ : Ph.	. <b>I</b>			and Titles	
C.O.ADD. 195S—1 1U 29A Utilities: Telephone Manhole and Handhole Envelopes	ADD. 257S-3	1P 62C	Construction Zone: Interstate Route H-3: Ph.	. 1			Date	Revision
	ADD. 257S-4	1P 62D	Construction Zone: Interstate Route H-3: Ph.	. 1				
ADD. 196 1P 1 Signing & Striping Notes and Legend	C.O. ADD. 257S-5	1P 62E	Construction Zone: Interstate Route H-3: Ph.	. 1			STATE OF DEPARTMENT OF	
C.O. 197 1P 2 Construction Zone: Interstate Route H-1: Ph. A			Construction Zone: Interstate Route H-3: Ph.			M. Un	HIGHWAYS	
						(A) ALL OF TO		
C.O. 198 1P 3 Construction Zone: Interstate Route H-1: Ph. A			Construction Zone: Moanalua Frwy & Ramp M		uction 7000	Moanalua PROFESSIONAL PROFESSIONAL		
C.O. 199 1P 4 Construction Zone: Interstate Route H—1: Ph. A	C.O. 258	1P 63	Construction Zone: Aiea Heights Drive — Phas		Ramp M: 1	Dh I \ \ \ \ ENGINEER \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LIST OF P	_ANS - 2
C.O. 200 1P 5 Construction Zone: Interstate Route H-1: Ph. A	C.O. 259	1P 64	Construction Zone: Aiea Heights Drive — Phas	se B C.O. 257S-9 IP 62I Constru	ction Zana:	Mognalua No. 7269-C		
C.O. 201 1P 6 Construction Zone: Interstate Route H-1: Ph. A	C.O. 260		· ·	0.0. E010 0 11 OEE 0010114	Ramp M:			
C. O. 202 1P 7 Construction Zone: Interstate Route H-1: Ph. A	C.O. 261		Signing & Pavement Marking: H-1 Sta. 122+0		Manip IVI.		H-3 FINISH	H (UNIT II)
						THIS WORK WAS PREPARED BY ME	FAIP NO. I-H3-	
C.O. ADD. 203 1P 8 Construction Zone: Interstate Route H-1: Ph. A	C.O. 262		Signing & Pavement Marking: H-1 Sta. 133+0			OR UNDER MY SUPERVISION.	LFFWARD	
C.O. 204 1P 9 Construction Zone: Interstate Route H—1: Ph. A	C.O. 263	1P 68	Signing & Pavement Marking: H-1 Sta. 145+0	00 to Sta. 157+00		Wille M. Male	SCALE: NONE	DATE: JANUARY 1997
C. O. 205 1P 10 Construction Zone: Interstate Route H-1: Ph. A	C.O. 264		Signing & Pavement Marking: H-1 Sta. 157+0			Jan	Note that the second se	OF 18 SHEETS
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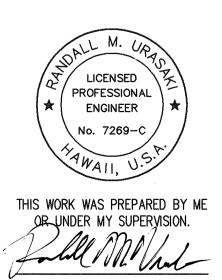
ADD. 6

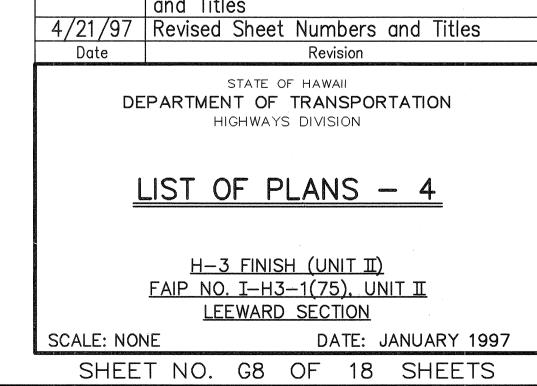
					46.20	い金属は全体に対象に対象性に属する。最高を必要があった。または文教を行った。 おり 後でを当らられる。「集日根で、日本のでは高端を経済で、日本のとの表示して、日本のでは、東京の主導・機能!	·養養學學的數數/導向的自己的以前的發行的影響的自動如。1955更多的「中的原因主義」的。 1955年1966年4月 - 1955年1	
	SHEET S	SHEET NO	<u>TITLE</u>	SHEET S	SHEET NO	TITI C		FED. ROAD STATE FED. AID FISCAL SHEET TOTAL PROJ. NO. PROJ. NO. SHEETS
	<u>JIILLI</u>	JIILLI 110.	<u>                                      </u>	<u> SIILLI</u>	SIILLI IVO	<u>TITLE</u>		
	C.O. 302	1S 9	Aiea Heights Drive: Grade Separation Lengthening: Deck Reinforcing Plan — 1	C O ADD 366	1W 24	Retaining Wall No. 13: Plan & Elevation — 2		HAWAII HAW. I—H3—1(75), UNIT II 1997 7 1102
	303	1S 10	Aiea Heights Drive: Grade Separation Lengthening: Deck Reinforcing Plan — 2			Retaining Wall No. 14: Plan & Elevation — 1		
	C.O. 304	1S 10	Aiea Heights Drive: Grade Separation Lengthening: Deck Reinforcing Plan — 3					
	C.O. ADD. 305		Alea Heights Drive: Grade Separation Lengthening: Typical Sections			Retaining Wall No. 14: Plan & Elevation — 2	SHEET SHEET NO.	<u>TITLE</u>
	306		Aiea Heights Drive: Grade Separation Lengthening: Typical Sections  Aiea Heights Drive: Grade Separation Lengthening: Dapped End Beam Details — 1			Retaining Wall No. 15: Plan & Elevation 369S-I IW 27A Drilled Shaft		
	C.O. ADD. 307	1S 14	Aiea Heights Drive: Grade Separation Lengthening: Dapped End Beam Details — 2			Retaining Wall No. 16: Plan & Elevation — 1 As-Built Elevations	423 1H 18 Boring Logs	S
	C.O. ADD. 307		Air Height Drive Cond. Comment of the Property of the Condition of the Con	/1		Retaining Wall No. 16: Plan & Elevation — 2	424 1H 19 Boring Logs	s
	ADD. 309		Alea Heights Drive: Grade Separation Lengthening: Dapped End Beam Details — 3 ISI4A  Alea Heights Drive: Grade Separation Lengthening: Deck Expansion Joints — 1 Alea Height			Retaining Wall No. 16: Plan & Elevation — 3	425 1H 20 Boring Logs	
	C.O. ADD. 310	1S 17	Aiea Heights Drive: Grade Separation Lengthening: Deck Expansion Joints — 2 Grade Sepa	, ,		Retaining Wall No. 16: Plan & Elevation — 4	426 1Z 1 Existing Co	nditions: Aerial Survey: Interstate Route H—1 — 1
	C.O.ADD. 311		Aiea Heights Drive: Grade Separation Lengthening: Deck Expansion Joints — 3 Lengthening	a: Danad		Retaining Wall No. 16: Plan & Elevation — 5	•	nditions: Aerial Survey: Interstate Route H—1 — 2
	C. O. ADD. 312		Aiea Heights Drive: Grade Separation Lengthening: Deck Expansion Joints — 4 End Beam [	Dotaile 24 ADD. 3/3		Wall Type C1, C2, & C4: Typical Sections	_	nditions: Aerial Survey: Interstate Route H—1 — 3
	ADD. 313		Aiea Heights Drive: Grade Separation Lengthening: Railing & Sidewalk — 1	ADD. 376		Wall Type C2 & C4: Typical Sections	429 1Z 4 Existing Co	nditions: Aerial Survey: Interstate Route H—1 — 4
	ADD. 314		Aiea Heights Drive: Grade Separation Lengthening: Railing & Sidewalk — 2			Wall Type C3 & F3: Typical Sections	430 1Z 5 Existing Co	nditions: Aerial Survey: Interstate Route H—1 — 5
	315		Aiea Heights Drive: Grade Separation Lengthening: Three—Rail Metal Railing — 1			Wall Type C1, C2, C3, C4 & F3: Miscellaneous — 1	431 1Z 6 Existing Co	onditions: Aerial Survey: Interstate Route H—1 — 6
	316		Aiea Heights Drive: Grade Separation Lengthening: Three—Rail Metal Railing — 2			Wall Type C1, C2, C3, C4 & F3: Miscellaneous - 2	432 1Z 7 Existing Co	nditions: Aerial Survey: Interstate Route H—1 — 7
	ADD. 317R		Aiea Heights Drive: Grade Separation Lengthening: Three—Rail Metal Railing — 3			Wall Type C1, C2, C3, C4 & F3: Miscellaneous — 3	433 1Z 8 Existing Co	nditions: Aerial Survey: Interstate Route H—1 — 8
	318		Aiea Heights Drive: Grade Separation Lengthening: Concrete End Post Details			Wall Type C1, C2, C3, C4 & F3: Miscellaneous — 4	<b>-</b>	nditions: Aerial Survey: Interstate Route H—1 — 9
			Aiea Heights Drive: Grade Separation Lengthening: Wingwall Retrofit — 1			Retaining Wall Nos. 4 & 10: Notes & Details	435 1Z 10 Existing Co	nditions: Ground Survey: H—1, Ramp D & Ramp EW — 1
	ADD. 320		Aiea Heights Drive: Grade Separation Lengthening: Wingwall Retrofit — 2			Retaining Wall Nos. 6 & 8: Typical Section & Details	436 1Z 11 Existing Co	nditions: Ground Survey: H—1, Ramp D & Ramp EW — 2
	ADD. 321		Aiea Heights Drive: Grade Separation Lengthening: Wingwall Retrofit — 3			Retaining Wall Nos. 14 & 15: Typical Sections	437 1Z 12 Existing Co	onditions: Ground Survey: H—1, Ramp D & Ramp EW — 3
	ADD. 322		Aiea Heights Drive: Grade Separation Lengthening: Wingwall Retrofit — 4			Retaining Wall Nos. 14 & 15: Miscellaneous — 1	438 1Z 13 Existing Co	nditions: Ground Survey: H—1, Ramp D & Ramp EW — 4
	ADD. 323	1S 30	Aiea Heights Drive: Grade Separation Lengthening: Wingwall Retrofit — 5			Retaining Wall Nos. 14 & 15: Miscellaneous — 2		
	ADD. 324	1S 31	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 1	387		Retaining Wall Nos. 14 & 15: Miscellaneous — 3		
	ADD. 325R	1S 32	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 2	ADD. 388		Retaining Wall Nos. 14 & 15: Miscellaneous — 4		
	ADD. 326	1S 33	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 3	ADD. 389		Retaining Wall Nos. 14 & 15: Miscellaneous — 5		
	ADD. 327	1S 34	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 4			Retaining Wall Nos. 14 & 15: Miscellaneous — 6		
	328	1S 35	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 5			Retaining Wall Nos. 14 & 15: Miscellaneous — 7		
	ADD. 329	1S 36	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 6			Retaining Wall Nos. 14 & 15: Miscellaneous — 8		
		1S 36A	Aiea Heights Drive: Grade Separation Lengthening: Miscellaneous Details — 7			Retaining Wall Nos. 14 & 15: Miscellaneous — 9 C.O. 393S-I IV	W51A Retaining Wall Nos. 14& 15:	Miscellaneous - IO
	ADD. 330		Aiea Heights Drive: Grade Separation Lengthening: Drilled Shaft Details	ADD. 394		Retaining Wall Nos. 14 & 15: Drilled Shaft Details	, , , , , , , , , , , , , , , , , , ,	
	ADD. 331		Aiea Stream Crossing: Plan & Elevation — 1	ADD. 395		Retaining Wall Nos. 14 & 15: Instrumentation Plan — 1		
	ADD. 332		Aiea Stream Crossing: Plan & Elevation — 2	ADD. 396		Retaining Wall Nos. 14 & 15: Instrumentation Plan — 2		
	C.O. 333R		Aiea Stream Crossing: Prestressed Plank Details	ADD. 397		Retaining Wall Nos. 14 & 15: Instrumentation Plan — 3		
. 1	ADD. 334R		Aiea Stream Crossing: Miscellaneous Details	ADD. 398		Retaining Wall Nos. 14 & 15: Instrumentation Details		
	335	15 42	Aiea Stream Crossing: Drilled Shaft Details	399		Retaining Wall No. 16: Transition to End Post		
*	336 337		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights Drive Grade Separation FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights Drive Grade Separation			Random Pattern of Reveal — 1		
	338		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Alea Heights Drive Grade Separation			Random Pattern of Reveal — 2		
	339		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Alea Heights Drive Grade Separation	0,0,7,00,000		Sound Barrier Details — 1		
	340		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Alea Heights Drive Grade Separation			Sound Barrier Details — 2		
	341		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Alea Heights Drive Grade Separation	NDD: 0000 0		Golf Fence Supports — 1 (Deleted)		
	342		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Alea Heights Drive Grade Separation	100, 0000	1W 5/F	Golf Fence Supports — 2 (Deleted)		
				ADD. 0000 7	IW 5/G	Golf Fence Supports - 3 (Deleted)	ning Wall No.16: Light Pole Ped.	. on Soundbarrier.
	343		Retaining Walls Location Map	400 401		FOR REFERENCE UNLT: CONTract FAIP NO. 1-11-1(04):12: Kaononi Stre	et Grade Separation	
	ADD. 344		<b>3</b>	<del>4</del> 01		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights	<del>-</del>	
			Retaining Walls Quantities — 1	402		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights		
	ADD. 346		Retaining Walls Quantities — 2	403 404		FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights FOR REFERENCE ONLY: Contract FAIP NO. I—H1—1(64):12: Aiea Heights	9	
	347		Retaining Wall No. 2: Plan & Elevation	405		FOR REFERENCE ONLY: Contract FAIP NO. 1—H1—1(64):12: Alea Heights FOR REFERENCE ONLY: Contract FAIP NO. 1—H1—1(64):12: Kaamilo Stre	5	
			Retaining Wall No. 3: Plan & Elevation	<del>4</del> 00		TON INLITERINGE ONLT. CONTRACT FAIR NO. 1-11-1(04):12: Kaamilo Stre	er orace separation	
	ADD. 349		Retaining Wall No. 4: Plan & Elevation	406	1H 1	Boring Location Plan		
			Retaining Wall No. 5: Plan & Elevation — 1	407	1H 2	Boring Location Plan		
			Retaining Wall No. 5: Plan & Elevation — 2	408	1H 3	Boring Location Plan		E/0/07   D ·
			Retaining Wall No. 6: Plan & Elevation	409	1H 4	Boring Location Plan		5/2/97   Revised and Added Sheet Numbers
			Retaining Wall No. 7: Plan & Elevation — 1	410	1H 5	Boring Location Plan		4/21/97 Revised and Added Sheet Numbers
			Retaining Wall No. 7: Plan & Elevation — 2	411	1H 6	Boring Location Plan		and Titles
			Retaining Wall No. 7: Plan & Elevation — 3	412	1H 7	Boring Location Plan		Date Revision
			Retaining Wall No. 7: Plan & Elevation — 4	413	1H 8	Boring Location Plan	**	STATE OF HAWAII
			Retaining Wall No. 8: Plan & Elevation — 1	414	1H 9	Boring Log Legend	M	DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
			Retaining Wall No. 8: Plan & Elevation — 2	415		Boring Logs	TOALL WORK	
			Retaining Wall No. 8: Plan & Elevation — 3	416	1H 11	Boring Logs	LICENSED PROFESSIONAL	
			Retaining Wall No. 9: Plan & Elevation	417		Boring Logs	★ ENGINEER ★ No. 7269-C	<u>LIST OF PLANS - 3</u>
			Retaining Wall No. 10: Plan & Elevation	418		Boring Logs	TAM S.F.	
555	ADD. 362	1W 20	Retaining Wall No. 11: Plan & Elevation	419		Boring Logs	MAII, U.	H-3 FINISH (UNIT II)
ani, 5t	C.O. ADD. 363	1W 2T	Retaining Wall No. 12: Plan & Elevation — 1 C.O. 363S-1 IW 2IA Retaining Wall No. 12: Top of Retaining Wall No. 12: Plan & Elevation — 2	of Sound 420		Boring Logs	THIS WORK WAS PREPARED BY N OR UNDER MY SUPERVISION.	FAIP NO. I—H3—1(75), UNIT II
Fujitc	C.O.ADD. 30T	1 44 22	Retaining Wall No. 12. Fidil & Lievation = 2 Barrier Transition	5 <sup>1</sup> Outuants		Boring Logs	Pelle M. Vice	LEEWARD SECTION
by L.	AUU. 363	IVV 23	Retaining Wall No. 13: Plan & Elevation — 1-C.O.ADD.364S-IW22A Retaining Wall No. 12 at 10.5	o Culvert: 422	1H 17	Boring Logs	Jelle III. Vie	
CAD		19. 18. 20. 18. 25. 12. 18. 2. 19. 18.	Plan and Sections C.O. 364S-2 IW 22B Retaining Wall No. 12: Exist.	Pole Guy Anchor Detail	s			SHEET NO. G7 OF 18 SHEETS
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	8	1102

SHEET S	SHEET NO.	<u>.</u>	TITLE		SHEET S	HEET NO.	TITLE	SHEET S	SHEET NO.	D. TITLE	
439	1Z 14	Existing Conditions:	Ground Survey: H-1, Ramp D &	Ramp EW - 5	VOLUME 2	)		543	2F 6	Traffic Control Plans: Ramp N & Ulune Extension	
440		•	Ground Survey: H-1, Ramp D &	•		<b>.</b>		544	2F 7	Traffic Control Plans: Ramp N & Ulune Extension	
441	1Z 16	•	Ground Survey: H-1, Ramp D &	·	495		Title Sheet — Volume 2 of 2	ADD. 545	2F 8	Traffic Control Plans: Ramp N & Ulune Extension	
442	1Z 17	•	Ground Survey: Kaonohi Street				THE SHOOL VOIGHTO E OF E	ADD. 546	2F 9	Traffic Control Plans: Ramp N & Ulune Extension	
443		•	Ground Survey: Kaamilo Street -	<b>– 1</b>		. MOAN	ALUA FREEWAY	547	2F 10	·	
444		<u>-</u>	: Ground Survey: Kaamilo Street -		<u></u>			548	2F 11	Traffic Control Plans: Ramp N & Ulune Extension	
445		_	Ground Survey: Aiea Hts. Dr./Old		496	2G 1	Location Map	ADD. 549	2F 12	•	
446		-	Ground Survey: Aiea Hts. Dr./Old	•	130	201	Location wap	550		Traffic Control Plans: Ramp N & Ulune Extension	
447		_	Ground Survey: Alea Hts. Dr./Old	•	ADD. 497	2T 1	Typical Section: Moanalua Freeway	330	21 10	Truthic Control Fluits. Nump in & Oldine Extension	
448		_	Ground Survey: Alea Hts. Dr./Old	•	498	2T 2	Typical Section: Moanalua Freeway	551	2L 1	Landscape: Planting Plan	
449		•	Ground Survey: Alea Hts. Dr./Old	•	ADD. 499	2T 3	Typical Section: Ulune Extension & Ramp N	552	2L 2	Landscape: Planting Plan	
450		<u> </u>	: Ground Survey: Alea Hts. Dr./Old	·	500	0 4 4	Al'.   C  407+00   C  400+00	553	2L 3	Landscape: Planting Plan	
451			: Ground Survey: Alea Hts. Dr./Old		500	2A 1	Alignment: Sta. 187+00 to Sta. 196+00	400 554	014.4		
452	1Z 27	•	: Miscellaneous Ground Survey: Hel	•	501	2A 2	Alignment: Sta. 196+00 to Sta. 207+00	ADD. 554	2W 1	Retaining Walls General Notes & Quantities	
453	1Z 27 1Z 28	-	: Miscellaneous Ground Survey: And		502	2A 3	Alignment: Sta. 207+00 to Sta. 217+00	C.O. ADD. 555	2W 2	Retaining Wall No. 1: Plan & Elevation — 1	
433	12 20	Existing Conditions.	Miscellaneous Ground Survey. And	Touriou Fi. & Kulling St.	503	2A 4	Alignment: Sta. 217+00 to 228+00		2W 3	Retaining Wall No. 1: Plan & Elevation — 2	
454	1X 1	Cross Sections: Int	cerstate Route H—1		504		Ramp N: Profile & Superelevation Diagram	ADD. 557	2W 4	Retaining Wall Type F2: Typical Section	
455	1X 2	Cross Sections: Int	erstate Route H—1		505		Ramp N: Profile & Superelevation Diagram	ADD. 558		· · · · · · · · · · · · · · · · · · ·	
456	1X 3	Cross Sections: Int	erstate Route H-1		506		Ulune Extension: Profile & Superelevation Diagram	559	2W 6	Retaining Wall No. 1: Miscellaneous — 2	
457	1X 4	Cross Sections: Int	cerstate Route H—1		507	2A 8	Ulune Extension: Profile & Superelevation Diagram	ADD. 560	2W 7	Retaining Wall No. 1: Miscellaneous — 3	
458	1X 5	Cross Sections: Int	cerstate Route H—1		508	2A 9	Spot Elevations: Ramp N & Ulune Ext.	561	2W 8	Retaining Wall No. 1: Transition to End Post	
459	1X 6	Cross Sections: Int	cerstate Route H-1		<b>C.O</b> .509	2A 10	Spot Elevations: Ramp N & Ulune Ext.	562	2H 1	Boring Location Plan	
460	1X 7	Cross Sections: Int	cerstate Route H—1		C.O.510	2A 11	Spot Elevations: Ramp N & Ulune Ext.	563	2H 2	Boring Log Legend	
461	1X 8	Cross Sections: Int	erstate Route H-1		511	2A 12	Spot Elevations: Ramp N & Ulune Ext.	564	2H 3	Boring Logs	
462	1X 9	Cross Sections: Int	erstate Route H-1		510	2C 1	Dondway Construction Notes Lorend & Abbreviations	001	211 0	Borning Logo	
463	1X 10	Cross Sections: Int	erstate Route H-1		512	2C 1	Roadway Construction Notes, Legend & Abbreviations	565	2Z 1	Existing Conditions: Aerial Survey: Moanalua Freeway — 1	
ADD. 464	1X 11	Cross Sections: Int			ADD. 513	2C 2	Roadway Construction: Ramp N & Ulune Ext.	566	2Z 2	Existing Conditions: Aerial Survey: Moanalua Freeway — 2	
ADD. 465	1X 12	Cross Sections: Int				2C 3	Roadway Construction: Ramp N & Ulune Ext.	567	2Z 3	Existing Conditions: Aerial Survey: Moanalua Freeway — 3	
466	1X 13	Cross Sections: Int				2C 4	Roadway Construction: Ramp N & Ulune Ext.	568	2Z 4	Existing Conditions: Ground Survey: Moanalua Freeway — 1	
467	1X 14	Cross Sections: Int					Roadway Construction Details	569	2Z 5	Existing Conditions: Ground Survey: Moanalua Freeway — 2	
468	1X 15	Cross Sections: Int			516	2C 5	Roadway Construction: Ramp M	570	2Z 6	Existing Conditions: Ground Survey: Moanalua Freeway — 3	
469	1X 16	Cross Sections: Int			ADD. 517	2C 6	Roadway Construction Details	571	2Z 7	Existing Conditions: Ground Survey: Moanalua Freeway — 4	
470	1X 17	Cross Sections: Int			= 4.5		Roadway Construction Details	<b>C</b> .O. 572	2Z 8	Existing Conditions: Ground Survey: Moanalua Freeway — 5	
471	1X 18	Cross Sections: Int			518	2C 7	SRT—350: Slotted Rail Terminal	C.O.573	2Z 9	Existing Conditions: Ground Survey: Moanalua Freeway — 6	
472	1X 19	Cross Sections: Int			519	2C 8	Roadway Construction Details		0)/ 4		
ADD. 473	1X 20	Cross Sections: Int			520	2C 9	Roadway Construction Details	574	2X 1	Cross Sections: Moanalua Freeway	
ADD. 474	1X 21	Cross Sections: Int			521	2D 1	Drainage & Grading Notes, Legend and Abbreviations	575	2X 2	Cross Sections: Moanalua Freeway	
ADD. 475	1X 22				522		Drainage & Grading: Sta. 187+00 to Sta. 196+00	576	2X 3	Cross Sections: Moanalua Freeway	
ADD. 476	1X 23				523		Drainage & Grading: Sta. 196+00 to Sta. 207+00	ADD. 577	2X 4	Cross Sections: Moanalua Freeway	,
ADD. 477	1X 24				524	2D 4	Drainage & Grading: Sta. 207+00 to Sta. 217+00	ADD. 578		Cross Sections: Moanalua Freeway	
478	1X 25				525	2D 5	Underdrain: Sta. 187+00 to Sta. 196+00	579	2X 6	Cross Sections: Moanalua Freeway	
479	1X 26				ADD. 526	2D 6	Underdrain: Sta. 196+00 to Sta. 207+00	580	2X 7	Cross Sections: Moanalua Freeway	
480	1X 27	Cross Sections: Int			527	2D 7	Underdrain: Sta. 207+00 to Sta. 217+00	581	2X 8	Cross Sections: Moanalua Freeway	
481	1X 27 1X 28	Cross Sections: Int			528	2D 7	Underdrain Detail	582	2X 9	Cross Sections: Moanalua Freeway	
482	1X 29	Cross Sections: Int			529	2D 0	Underdrain Detail	583	2X 10	<b>J</b>	
483	1X 23	Cross Sections: Int			ADD. 530		Underdrain Summary	584	2X 11	Cross Sections: Moanalua Freeway	
484	1X 30	Cross Sections: Int			ADD. 300	20 10	Onderdrain Sammary	ADD. 585	2X 12		
	1X 31				531	2R 1	Erosion Control: Sta. 187+00 to Sta. 196+00	ADD. 586	2X 13	Cross Sections: Ulune Extension & Ramp N	
485					532	2R 2	Erosion Control: Sta. 196+00 to Sta. 207+00				
486 487	1X 33				533	2R 3	Erosion Control: Sta. 207+00 to Sta. 217+00			5/2/97 Revised and Added Sheet Number	S
487	1X 34	Cross Sections: Int			E 7.4	00.4	C'andiana (b. Danamara I. Maralia, M. J. and			and Titles	
488	1X 35				534	2P 1	Signing & Pavement Marking Notes & Legend			4/21/97 Revised Sheet Numbers and Titles	<u>;</u>
489 490	1X 36 1X 37				535 C O 536	2P 2	Signing & Pavement Marking: Sta. 187+00 to Sta. 196+00			STATE OF HAWAII	
		Cross Sections: Int			C.O. 536	2P 3	Signing & Pavement Marking: Sta. 196+00 to Sta. 207+00			DEPARTMENT OF TRANSPORTATION	
491	1X 38	Cross Sections: Int			C.O. 537	2P 4	Signing & Pavement Marking: Sta. 207+00 to Sta. 217+00		PALL M. UP	HIGHWAYS DIVISION	
492	1X 39	Cross Sections: Int			538	2F 1	Traffic Control Plans Notes & Legend		LICENSED	() ()	
493	1X 40	Cross Sections: Rai	•		539	2F 2	Traffic Control Plans: Ramp N & Ulune Extension	(★	PROFESSIONAL ENGINEER		
ADD. 494	1X 41	Cross Sections: Old	•		540	2F 3	Traffic Control Plans: Ramp N & Ulune Extension		No. 7269-C		
ADD. 494S-1	IX 41A	Cross Sections: Old	opana Street		ADD. 541	2F 4	Traffic Control Plans: Ramp N & Ulune Extension		AWAII, U.S.	5.1	
							Traffic Control Plans: Ramp N & Ulune Extension	THIS WO	RK WAS PREPARE	$\frac{H-3 \text{ FINISH (UNIT II)}}{\text{FAIP NO. I}-H3-1(75), UNIT II}$ $\text{LEEWARD SECTION}$	

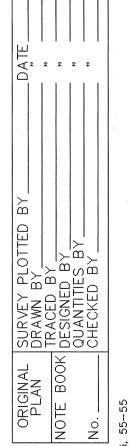




FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	9	1102

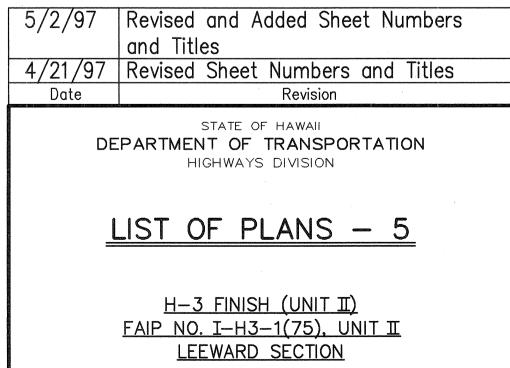
SHEET SI	HEET NO.	<u>TITLE</u>	SHEET S	SHEET NO.	<u>TITLE</u>	SHEET	SHEET NO.		<u>TITLE</u>
			O 1 1 Real less 1			<u> </u>	011221 110.		
<u> </u>	. HALAW	<u>VA_INTERCHANGE</u>	642		Roadway Construction: Ramp SE	700	3F 11		Interstate Route H-1, S#2
507	70 1	losulism Mam	643		Roadway Construction: Ramp WE	701			-1A: Moanalua Freeway, S#2
587	3G 1	Location Map	644		Roadway Construction: Ramp WE & Ramp P	702			-1B: Moanalua Freeway, S#2
588	3T 1	Typical Sections: Interstate Route H-3	D. 644S-1		Roadway Construction Details	703			-1C: Moanalua Freeway, S#2
C.O.589	3T 2	Typical Sections: Ramp ES & Ramp EW	645		SRT—350: Slotted Rail Terminal	704		Traffic Control Plan-	· · · · · · · · · · · · · · · · · · ·
C.O.590	3T 3	Typical Sections: Ramps WE/P and Ramp EW Gore	646 647		Roadway Construction Details	705 706		Traffic Control Plan-	·
591	3T 4	Gore Area Details: Interstate Route H-3	647		Roadway Construction Details	706 707	3F 17	Traffic Control Plan-	·
E00	7 4 4		648 640		Roadway Construction Details	707 708		Traffic Control Plan-	·
592	3A 1	Alignment: Moanalua Freeway	649 650		Roadway Construction Details  Roadway Construction: Underdrain Details	708 709	3F 19 3F 20	Traffic Control Plan- Traffic Control Plan-	·
593	3A 2	Alignment: Mognalus Freeway	000	JC 23	Roddwdy Construction. Onderdiain Details	710		Traffic Control Plan-	· · · · · · · · · · · · · · · · · · ·
594 595	3A 3 3A 4	Alignment: Interestate Pouts H-1	651	3P 1	Signing & Pavement Markings Notes & Legend	710			-2A: Ramp WE, S#12
596	3A 5	Alignment: Interstate Route H—1 Alignment: Interstate Route H—1	652	3P 2	Construction Zone—1A: Interstate Route H—1, NLV	717	3F 23		-2B: Ramp WE, S#12
597	3A 6	Alignment: Interstate Route H—1	653	3P 3	Construction Zone-1B: Interstate Route H-1, NLV	713	3F 24		-2C: Ramp WE, S#12
598	3A 7	Alignment: Interstate Route H—1	654	3P 4	Construction Zone-2A: Interstate Route H-1, NLV	710	01 21	Traffic Control Fran	20. Number we, $\sigma_{\pi}$
599	3A 8	Alignment: Interstate Route H—1	655	3P 5	Construction Zone-2B: Interstate Route H-1, NLV	714	3S 1	Bridge Seismic Retro	ofit Location Plan
600	3A 9	Alignment: Interstate Route H-1	656	3P 6	Construction Zone-2C: Interstate Route H-1, NLV	ADD. 71	5 3S 2	Bridge Seismic Retro	ofit Notes & Estimated Quantities
601		Alignment: Interstate Route H-3	657	3P 7	Construction Zone-2D: Interstate Route H-1, NLV	716	3S 3	Structure No. 1: Pla	ın & Elevation
602		Alignment: Interstate Route H-3	658	3P 8	Construction Zone—1A: Interstate Route H—1, S#8	ADD. 71	7 3S 4	Structure No. 2: Pla	an & Sections
603		Alignment: Ramp ES	659	3P 9	Construction Zone—1B: Interstate Route H—1, S#8	ADD. 71	3S 5	Structure No. 2: We	st Abutment
604		Alignment: Ramp ES	660	3P 10	Construction Zone—1C: Interstate Route H—1, S#8	ADD. 71	3S 6	Structure No. 2: Ea	st Abutment
605		Alignment: Ramp ES	661	3P 11	Construction Zone—1A: Moanalua Freeway, S#2	720	3S 7	Structure No. 3: Pa	rtial Plan & Details
606		Alignment: Ramp EW	662	3P 12	Construction Zone—1B: Moanalua Freeway, S#2	721	3S 8	Structure No. 4: Pla	
C.O. 607			663	3P 13	Construction Zone—1C: Moanalua Freeway, S#2	722	3S 9		an, Elevation & Details
608	3A 17	Alignment: Ramp EW C.O. 607S-I 3Al6A Alignment: Ramp D	664		Construction Zone—1A: Ramp EW	723	3S 10	Structure No. 8: Pla	
609		Alianment: Ramp O	665		Construction Zone—1B: Ramp EW	724	3S 11	Structure No. 10: Pl	
610	3A 19	Alignment: Ramp P	.O. 666	3P 16 3P 17	Construction Zone-1C: Ramp EW C.O. 666S-I Construction Zone: Ramp D	/25	3S 12	Structure No. 11: Pl	
611	3A 20	Alignment: Ramp WE	66 / 668		Construction Zone—1A: Ramp WE, H—3 Construction Zone—1B: Ramp WE, H—3	726	3S 13	Structure No. 12: Pl	
612	3A 21	Alignment: Ramp WE	669	3P 19	Construction Zone—1A: Ramp WE, N=3	727		North Leg Viaduct:	
613	3A 22	Alignment: Ramp WE	670		Construction Zone—1B: Ramp WE, S#12	729		North Leg Viaduct:	
614		Alignment: Ramp WE	671		Construction Zone-2A: Ramp WE, S#12	730		<b>J</b>	Partial Plan — 4 & Sections
615		Alignment: Ramp WE	672		Construction Zone—2B: Ramp WE, S#12	730 731		•	ofit: Restrainer Details —1
616	3A 25	Profile & S.E. Diagram: Interstate Route H-3	673		Signing & Pavement Markings: Interstate Route H—1, NLV	732		•	ofit: Restrainer Details —2
617 618	3A 26	Profile & S.E. Diagram: Interstate Route H-3 C.O. 617S-1 3A26S-1 3A26A Profile	674		Signing & Pavement Markings: Interstate Route H-1, NLV	733	3S 20	Typical Uparade Dete	ails For Shaped Parapet & End Post
618 619		Ramp Terminal Details: Interstate Route H-3  8 S.E. Diagram: Ramp EW	675	3P 25	Signing & Pavement Markings: Interstate Route H-1, NLV	734	3S 21	Typical Upgrade Deta	ails For Shaped Parapet & End Post 733S-1 3S 20A Structure ails For Vertical Parapet & End Post No.8 & North Leg
C.O. 620		Spot Elevations: Ramp ES Spot Elevations: Ramp EW (Deleted).	676	3P 26	Signing & Pavement Markings: Interstate Route H—1, NLV	735	3S 22	Typical Railing Detail	s For Three—Rail Metal Railings — 1 Viaduct End Post
			677		Signing & Pavement Markings: Interstate Route H—1, S#8	736			For Three-Rail Metal Railings - 2 Modifications
C.O. 621 C.O. 62IS-I	3A 30A	Spot Elevations: Ramp EW Spot Elevations: Ramp D	678		Signing & Pavement Markings: Interstate Route H—3	737	3S 24	Typical Railing Joint	Details: Three-Rail Metal Railings - 3
622	3C 1		O. 679		Signing & Pavement Markings: Moanalua Freeway	ADD. 73	3S 25	Creep Block Details	& Locations — 1
623	3C 2	· · · · · · · · · · · · · · · · · · ·	O. 680		Signing & Pavement Markings: Moanalua Freeway	ADD. 73		Creep Block Details	
624	3C 3	Roadway Construction: Interstate Route H-1, NLV	681		Signing & Pavement Markings: Moanalua Freeway, S#2	740	3S 27	Creep Block Details	
625	3C 4	Roadway Construction: Interstate Route H-1, S#8	682		Signing & Pavement Markings: Ramp ES	C.O. 741		Creep Block Details	
ADD. 626	3C 5	<b>,</b>	D. 683		Signing & Pavement Markings: Ramp EW	742	3S 29	Creep Block Details	$\cdot$
627	3C 6	,	D. 684 D. 685		Signing & Pavement Markings: Ramp EW Signing & Pavement Markings: Ramp EW	743	3S 30	Creep Block Details	
628		, , , , , , , , , , , , , , , , , , , ,	686 · · ·		Signing & Pavement Markings: Ramp EW  Signing & Pavement Markings: Ramp M	744	3S 31	Creep Block Details	& Locations — /
629 630	3C 8 3C 9	Roadway Construction: Kaimakani Street, S#1	687		Signing & Pavement Markings: Ramp 0				
631		Roadway Construction: Kaimakani Street, S#1 Roadway Construction: Moanalua Freeway: S#2	688		Signing & Pavement Markings: Ramp WE, S#12				5/2/97 Revised and Added Sheet Numbers
632	3C 11	Roadway Construction: Ramp B	689		Signing & Pavement Markings: Ramp WE, S#12				and Titles
633	3C 12	Roadway Construction: Ramp C							4/21/97 Revised Sheet Numbers and Titles
634	3C 13	Roadway Construction: Ramp ES	690	3F 1	Traffic Control Plan Notes and Legend				Date Revision
C.O. 635	3C 14	Roadway Construction: Ramp EW	691	3F 2	Traffic Control Plan—1A: Interstate Route H—1, NLV				STATE OF HAWAII  DEPARTMENT OF TRANSPORTATION
C.O. 636	3C 15	Roadway Construction: Ramp EW	692 693	3F 3 3F 4	Traffic Control Plan—1B: Interstate Route H—1, NLV Traffic Control Plan—2A: Interstate Route H—1, NLV			CALL M. UR	HIGHWAYS DIVISION
637	3C 16	Roadway Construction: Ramp G C.O. 636S-I 3CI5A Roadway Construction: Ramp D Roadway Construction: Ramp M	694	3F 5	Traffic Control Plan—28: Interstate Route H—1, NLV			LICENSED PROFESSIONAL	
638			695	3F 6	Traffic Control Plan—2C: Interstate Route H—1, NLV			(★ ENGINEER )★)	<u>LIST OF PLANS - 5</u>
639	3C 18	Roadway Construction: Ramp M	696	3F 7	Traffic Control Plan—2D: Interstate Route H—1, NLV			No. 7269-C	
640	3C 19	Roadway Construction: Ramp O	697	3F 8	Traffic Control Plan-1A: Interstate Route H-1, S#8			AWAII, U.S.	H−3 FINISH (UNIT II)
641	3C 20	Roadway Construction: Ramp P	698	3F 9	Traffic Control Plan-1B: Interstate Route H-1, S#8			THIS WORK WAS PREPARED BY	FAIP NO. I—H3—1(75), UNIT II
				0000 A -				OR UNDER MY SUPERVISION.	LEEWARD SECTION

3F 9 Traffic Control Plan-1B: Interstate Route H-1, S#8
3F 10 Traffic Control Plan-1C: Interstate Route H-1, S#8



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SCALE: NONE DATE: JANUARY 1997 SHEET NO. G9 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	10	1102

SHEE	T SHEET NO	<u>TITLE</u>		SHEET	SHEET NO.	<u>TITLE</u>			
74	5	FOR REFERENCE ONLY Contract I	FAIP NO. I—H1—1(77):13: Structure No. 1	700	1C 1	Pandway Canatruation: Cuttor and Cuardrail			
74			FAIP NO. I—H1—1(77): 13: Structure No. 2	799 800	4C 4	Roadway Construction: Gutter and Guardrail	C.O. 799S-1	4C4A Roadwa	y Construction: Connector Road Removal Plan
74			FAIP NO. I—H1—1(88): 13: Structure No. 3	801	4C 5 4C 6	Roadway Construction: Gutter and Guardrail Details Roadway Construction: Gutter and Guardrail Details	C.O. 799S-2	4C4B Roadwa	y Construction: Detail Sheet
74			FAIP NO. I—H1—1(89): 13: Structure No. 4	ADD. 802		Roadway Construction: Gutter and Guardrai Details  Roadway Construction: Emergency Escape Ramp Plan	C.O. 799S-3	4C4C Roadwo	Construction: Earthwork for New Berm
74			FAIP NO. I—H1—1(91):13: Structure No. 6	803		Roddwdy Constituction. Emergency Escape Ramp Flan	C.O. 799S-4		ay Construction: Earthwork for New Berm
75			FAIP NO. I—H1—1(91):13: Structure No. 8	804		Rodaway construction. Emergency Escape Ramp Trome			ay Construction: Earthwork for New Berm
75 75			FAIP NO. I—H1—1(87): 13: Structure No. 10	805					ay Construction: Add'l. Guardrails Plan
75 75			FAIP NO. I—H1—1(90):13: Structure No. 11	ADD. 806		Roadway Construction: Emergency Escape Ramp Details	0.0.7000	TO II TOUGH	ay construction. Add t. Cadrarans Flan
75			FAIP NO. I—H1—1(91):13: Structure No. 12	807		Roadway Construction: Miscellaneous Details			
75			FAIP NO. I—H1—1(104):13: North Leg Viaduct	ADD. 808		Roadway Construction: Miscellaneous Details			
75			FAIP NO. I—H1—1(104):13: North Leg Viaduct	809		North Halawa Valley Highway, Unit II: Rubrail Details			
75			FAIP NO. I-H1-1(104):13: North Leg Viaduct	810		North Halawa Valley Highway, Unit II: Guardrail w/Rubrail Plan —	Part I		
75			FAIP NO. I—H1—1(104):13: North Leg Viaduct	811		North Halawa Valley Highway, Unit II: Guardrail w/Rubrail Plan —			
75			FAIP NO. I-H1-1(104):13: North Leg Viaduct	812		North Halawa Valley Highway, Unit II: Guardrail w/Rubrail Plan —			
•				813		North Halawa Valley Highway, Unit II: Guardrail w/Rubrail Plan —			
75		Existing Conditions: Ground Survey		814		North Halawa Valley Highway, Unit II: Guardrail w/Rubrail Plan —			
76		Existing Conditions: Ground Survey		815					
76		Existing Conditions: Ground Survey		816		Roadway Construction: Emergency Crossover	, are vi		
76		Existing Conditions: Ground Survey		ADD. 817					
76	3 3Z 5	Existing Conditions: Ground Survey	y: Ramp ES						
76	4 3X 1	Halawa Interchange: Cross Section	ns: Interstate Route H—3	818		Signing & Pavement Markings: Makai Quarry Viaduct: BL Sta. 33			
76		Halawa Interchange: Cross Section		819	4P 2	Signing & Pavement Markings: Makai Quarry Viaduct: BL Sta. 34			
76		Halawa Interchange: Cross Section		820	4P 3	Signing & Pavement Markings: Makai Quarry Viaduct: BL Sta. 35	5+00 to Sta. 3	376+00	
76		Halawa Interchange: Cross Section		C.O. 821	4E 1	Highway Lighting: Emergency Escape Ramp	C 0 922C	1 4EQA Domi	lumu. Camatmustianu I liahumu I iahtina Dalaantian Dima
76.		3	ns: Interstate Route H—3 and Ramp O	C. O. 822		Highway Lighting: Lighting Plans	C.O. 822S		way Construction: Highway Lighting Relocation Plans
C.O. 76		Halawa Interchange: Cross Section	<b>'</b>	C. O. 823	4E 3	Highway Lighting: Relocation Details			way Construction: Highway Light Relocation Plan
C. Q. 77		Halawa Interchange: Cross Section	·	C. O. 823S-		Roadway Construction: Emergency Phone Relocation Details			lway Construction: Highway Lighting Relocation Work
C. O. 77		Halawa Interchange: Cross Section	·	824	4S 1	Roadway Construction: Emergency Phone Relocation Details Barrier & Guardrail Modifications: Concrete Barrier No. 1	C.O. 8225	-4 4EZD Roda	way Construction: Highway Light Relocation Plans
C. O. 77		Halawa Interchange: Cross Section	•	825	4S 2	Barrier & Guardrail Modifications: Concrete Barrier No. 1			
C. O. 77		Halawa Interchange: Cross Section	'	826	4S 3	Barrier & Guardrail Modifications: Concrete Barrier No. 2		0.0.07	70   5044 5   0   0   0
C. O. 77		Halawa Interchange: Cross Section	·	827	4S 4	Barrier & Guardrail Connections: Concrete Barrier Nos. 1 & 2			7S-1 5C4A Roadway Construction: Glare Screen
C. O. 77		3	·	828	4S 5	Barrier & Guardrail Modifications: End Post Modification No. 3			7S-2 5C4B Roadway Construction: Glare Screen
C. O. 77	6 3X 13	Halawa Interchange: Cross Section	Ramp FS C.O. 1135-1 3X IZA Halawa Interchange: Cross Section	ns: Ramp D 829	4S 6	Barrier & Guardrail Modifications: End Post Modification No. 4		1	7S-3 5C4C Roadway Construction: Glare Screen
		J	C.O. 775S-2 3X 12B Halawa Interchange: Cross Section	713. I Camp D 000	4S 7	Barrier & Guardrail Modifications: End Post Modification No. 4			7S-4 5C4D Roadway Construction: Glare Screen
	4. NORT	H HALAWA VALLEY		831	4S 8	Location Map: Bridge Name Applications — 1			'S-5 5C4E Roadway Construction: Windward Highway
	***************************************			832	4S 9	Location Map: Bridge Name Applications — 2			'S-6 5C4F Roadway Construction: Windward Highway
77	7 4A 1	Interstate Route $H-3$ : Alignment,	Fencing & Survey Monuments	833	4S 10	Location Map: Bridge Name Applications — 3	<u> </u>		2S-7 5C4G Roadway Construction: Details
77	8 4A 2	Interstate Route H-3: Alignment,	·					1	7S-8 5C4H Roadway Construction: Details
77	9 4A 3	Interstate Route H-3: Alignment,	Fencing & Survey Monuments		5. WINDW	<u>MARU</u>		ı	S-9 5C4I Roadway Construction: Details
78	0 4A 4	Interstate Route H-3: Alignment,	Fencing & Survey Monuments	07.4	50 A			. i	S-10 5C4J Roadway Construction: Details
78	1 4A 5	Interstate Route H-3: Alignment,	Fencing & Survey Monuments	834	5C 1	Roadway Construction: Kaneohe Interchange		C.O. 857	S-11 5C4K Roadway Construction: Details
78.	2 4A 6	Interstate Route H-3: Alignment,	Fencing & Survey Monuments	835	5C 2	Roadway Construction: Concrete Wall Transition Plans and Section		- 1 - *1	
78	3 4A 7	Interstate Route H-3: Alignment,	Fencing & Survey Monuments	836	5C 3	Roadway Construction: Metal Guardrail Connection to Concrete W	all transition De	etali	
78	4 4A 8	Interstate Route H—3: Alignment,		C.O. 837	5C 4	Roadway Construction: VMS @ Kahekili Hwy			
78	5 4A 9	Interstate Route H-3: Alignment,		838	5D 1	Drainage: 54" SRSP Drain at Relocated Likelike Highway			
78		Interstate Route H-3: Alignment,		839	5D 2	Drainage: 54" RCP Drain at Sta. 338+27			
78		Interstate Route H-3: Alignment,							E/0/07 ID • • • • • • • • • • • • • • • • • •
78	8 4A 12	Interstate Route H-3: Alignment,	Fencing & Survey Monuments	ADD. 839S-	·1 5L 1	Landscape: Planting Plan			5/2/97 Revised and Added Sheet Numbers and Titles
78		Interstate Route H-3: Alignment,		ADD. 839S-	·2 5F 1	Windward: Traffic Control Plan: Notes & Legend			4/21/97 Revised and Added Sheet Numbers
79	0 4A 14	Interstate Route H—3: Alignment,	Fencing & Survey Monuments	ADD. 839S-		Windward: Traffic Control Plan — 1: VMS @ Kahekili Highway			and Titles
79		Interstate Route H-3: Alignment,	·	ADD. 839S-		Windward: Traffic Control Plan — 2: VMS @ Kahekili Highway			Date Revision
79.	2 4A 16	Interstate Route H-3: Alignment,		ADD. 839S-		Windward: Traffic Control Plan — 3: VMS @ Kahekili Highway			STATE OF HAWAII
79		Interstate Route H—3: Alignment,		ADD. 839S-		Windward: Traffic Control Plan — 4: VMS @ Kahekili Highway		M. 1/2	DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
79		Interstate Route H-3: Alignment,					TO ALL	ENSED PAC	
79	5 4A 19	Interstate Route H—3: Alignment,	Fencing & Survey Monuments	840	5S 1	Location Map: Bridge Name Applications — 1	/ PROFE	ENSED Z	LICT OF DIANC
79	6 4C 1	Roadway Construction: Barrier &	Guardrail Conn Details	841	5S 2	Location Map: Bridge Name Applications — 2	1 1	GINEER	<u>LIST OF PLANS - 6</u>
79 <sup>.</sup> 79		Roadway Construction: Darrier &		842 C.O. 842S-I	5S 3 <b>5S 3A</b>	Existing Support Structures: Post Modifications  Existing Support Structures: Post Modifications	HAW	11 115.15	
79		Roadway Construction: Drainage S		843		Segmental — Retaining Wall: Handhole Location — Plan	· WA	11, 0.	<u>H-3 FINISH (UNIT II)</u>
, , , , , , , , , , , , , , , , , , , ,	- TO 0	Trodustay Construction. Linepost of		ADD. 844	5W 2	Segmental — Retaining Wall: Handhole Location — Details		F PREPARED BY ME BY SUPERVISION.,	FAIP NO. I—H3—1(75), UNIT II
								M. Mul	LEEWARD SECTION  DATE: JANUARY 1007
				ADD. 844S-	1 5P 1	Signing Plan: Interstate Route H—3: Haiku Approach	( from	· · · · · · · · · · · · · · · ·	SCALE: NONE DATE: JANUARY 1997
									SHEET NO. G10 OF 18 SHEETS

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ADD. 10

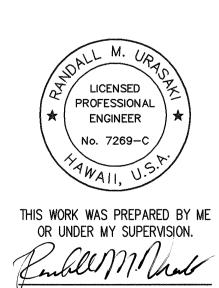
SHEET NO. G10 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	11	1102

SHE	ET SH	HEET NO.	TITLE	SHEET	SHEET NO.	<u>TITLE</u>	SHEET SHEE	T NO.	<u>TTLE</u>
	6	. DESTIN	NATION SIGNS	896	SY 4	Utility Agency, Abbreviations & Notes	ADD. 955 SY	7 63 Systems Plan: VMS 4	0 — Plan
				C.O. ADD. 897	SY 5	Systems Construction Notes		7.64 Systems Plan: VMS 4	·
			Notes & Location Map	898	SY 6	Key Plan - 1	ADD. 957 SY	65 Systems Plan: VMS 4	1
		6G 2	Location Map: H-1 West	ADD. 899	SY 7	Key Plan - 2		' 66 Systems Plan: VMS 4	
C.O. 84			Location Map: Halawa Interchange	ADD. 900	SY 8	Key Plan – 3		67 Systems Plan: VMS 4	
C.O. 84			Location Map: Moanalua Freeway	ADD. 901	SY 9	Key Plan - 4		68 Systems Detail: CMS	
			Location Map: Quarry Viaduct	ADD. 902	SY 10	Traffic Control System: Systems Block Diagram — 1		69 Systems Detail: CMS	
Ŏ:	50	6G 6	Location Map: Halekou Interchange	ADD. 903	SY 11	Traffic Control System: Systems Block Diagram — 2		70 Systems Detail: CMS	
85	51	6P 1	Signs Layouts: H-1 West	ADD. 904	SY 12			_	era Installation and Pole Details — 1
85	52	6P 2	Sign Details: H—1 West	ADD. 905		Traffic Control System: Systems Block Diagram — 4		-	era Installation and Pole Details — 2
85	53	6P 3	Sign Details: H—1 West	C. O. <del>ADD.</del> 906 ADD. 907		Systems: Equipment Summary — 1 Systems: Equipment Summary — 2		•	era Controller Cabinet and Foundation Details
8	54	6P 4	Sign Details: H-1 West	ADD. 907 ADD. 908		Conduit & Cable Schedule — 1		•	le Detection Station Details — 1 le Detection Station Details — 2
	55	6P 5	Signs Layouts: Halawa Interchange	ADD. 909	SY 17	Conduit & Cable Schedule — 2		•	fic Controller Cabinet and Foundation Details
	56	6P 6	Signs Layouts: Halawa Interchange	ADD. 910		Conduit & Cable Schedule — 3		-	ergency Crossover: Special Foundation Details
ADD. 8	356S-1		Roadway Construction: CMS 44	ADD. 911		Conduit & Cable Schedule — 4		-	ed Circuit TV: Special Foundation Details
	57 		Sign Details: Halawa Interchange	912		H-1 Freeway: H-1 BL Sta. 125+00 to 137+00		•	gency Crossover: Halawa Detail — 1
	58		Sign Details: Halawa Interchange	913		H-1 Freeway: H-1 BL Sta. 137+00 to 149+00		•	gency Crossover: Halawa Detail — 1
_			Sign Details: Halawa Interchange	914		H-1 Freeway: H-1 BL Sta. 149+00 to 160+00		<del>-</del>	gency Crossover: Haiku Detail
			Sign Details: Halawa Interchange	915		H-1 Freeway: H-1 BL Sta. 160+00 to 171+00		-	gency Telephone Installation Detail
	61. 60.		Sign Details: Halawa Interchange	916		H-1 Freeway: H-1 BL Sta. 171+00 to 182+00		-	Foller Cabinet Mounting Detail
C.O.86			Signs Layouts: Moanalua Freeway	917	SY 25	H-1 Freeway: H-1 BL Sta. 182+00 to 193+00		-	ellaneous Cabinet & Foundations
			Roadway Construction: Sign Structure E-58L & E-58R	918	SY 26	H-1 Freeway: H-1 BL Sta. 193+00 to Ramp EW Sta. 113+00	ADD. 977 SY	85 System Details: CMS	Miscellaneous Details
0.4			Roadway Construction Details: Sign Structure E-58L & E-58R	919	SY 27	H-1 Freeway: Ramp EW Sta. 113+00 to 123+00	ADD. 977S-1 SY	86 Systems Plan: Syster	n Crossing: Location Map
C.O. 86			Sign Details: Moanalua Freeway Sign Details: Moanalua Freeway	920	SY 28	Halawa Interchange: Ramp EW Sta. 123+00 to 134+00		<u>-</u>	ı Interchange: 'SYS1' & 'SYS5' Plan
			Sign Layouts: Makai Quarry Viaduct	921	SY 29	Halawa Interchange: Ramp EW Sta. 134+00 to 144+00		-	Interchange: 'SYS2A', 'SYS2B', 'SYS2C', 'SYS3'
_			Sign Details: Makai Quarry Viaduct	C. O. 922		Halawa Interchange: H—1 BL Sta. 219+75 to 227+00		<u>-</u>	ı Interchange: 'SYS4A', 'SYS4B', 'SYS4C' Plan
			Sign Details: Makai Quarry Viaduct	ADD. 923		Halawa Interchange: MF BL Sta. 163+00 to 173+00		90 Systems Plan: Halawa	
			Sign Layouts & Details: Quarry Via. & Halekou I/C	924		Halawa Interchange: Ramp EW Sta. 144+00 to MF BL Sta. 252+33.06		91	ı Interchange: 'SYS7' & 'SYS8' Plan
			Sign Details: Miscellaneous	925		Halawa Interchange: Ramp SE sta. 231+00 to 241+00		' 93 Systems Plan: Halawa	
			Sign Details & Sign Layout: Miscellaneous	926	SY 34	<b>,</b>		'94 Systems Plan: Halawa	•
	7.4	· ·		927		Halawa Interchange: H-3 BL Sta. 252+33.06 to 262+00		•	Approach: Weigh—In—Motion Station
8.	/1		Sign Structures General Notes	928		Halawa Interchange: H-3 BL Sta. 262+00 to 336+00		•	Approach: Data Collection Station
			Sign Structures: Cantilever Type	929		$\mathbf{j}$			va Interchange: 'SYS1' & 'SYS2A' Profile
C.O. ADD.		6V 3	Sign Structures: Overhead type	ADD. 930		ğ		-	va Interchange: 'SYS2B', 'SYS2C' & 'SYS3' Profile
C.O. ADD.			Sign Structures: Connection Details — 1	931 932	SY 39 SY 40	Moanalua Freeway: MF BL Sta. 197+00 to 207+00  Moanalua Freeway: MF BL Sta. 207+00 to 214+00		<u> </u>	va Interchange: 'SYS4A', 'SYS4B' & 'SYS5' Profile
			Sign Structures: Connection Details — 2 Sign Structures: Foundation Details	933		H-3 Freeway - Halawa: H3 BL Sta. 344+00 to 374+00			va Interchange: 'SYS4C', 'SYS7' & 'SYS8' Profile
			Sign Structures: VMS 37 Foundation			H-3 Freeway - Halawa: H3 BL Sta. 374+00 to 428+00		<b>,</b>	va Interchange: 'SYS6' & 'SYS9' Profile state Route H—1: Structure—Mounted Pullbox
			Sign Structures: Foundation Details	ADD. 935		Systems Detail: H—3 Freeway — Halawa: Emergency Crossover — 1		•	va Interchange: Structure—Mounted Pullbox
C.O.ADD.			Sign Structures: Sign Mounting Details — 1	ADD. 936		H-3 Freeway - Halawa: H-3 BL Sta. 428+00 to 472+00		976 Systems Detail: Traff	
C.O. 87			Sign Structures: Sign Mounting Details — 2	ADD. 937		H-3 Freeway - Halawa: H-3 BL Sta. 472+00 to 525+45		•	va Interchange: Miscellaneous Details — 1
C.O. 88			Sign Structures: Sign Mounting Details — 3	ADD. 938		H-3 Freeway - Halawa: H-3 BL Sta. 525+45 to 593+50	ADD. 977S-21 SY	' 971 Systems Detail: Halav	va Interchange: Miscellaneous Details — 2
ADD.			Sign Structures: Sign Mounting Details — 4	ADD. 939		System Detail: Loop Detector: H-3 Sta. 525-528			va Approach: Weigh—In—Motion Station
ADD.			Sign Structures: Sign Mounting Details — 5	940		H-3 Freeway - Halawa: H-3 BL Sta. 593+50 to 597+70		<u>-</u>	Approach: Data Collection Station
			Sign Structures: Sign Mounting Details — 6	ADD. 941		H-3 Freeway - Halawa: H-3 BL Sta. 597+70 to 603+00	ADD. 9/7S-24 SY	97L Systems Detail: Duct	Sections
	884	6V 14	Sign Structures: Sign Mounting Details — 7	ADD. 942	SY 50	H-3 Freeway - Halawa: H-3 BL Sta. 602+40 to 606+20		•	5/2/97 Revised and Added Sheet Numbers
C. Q.	. 884S-1	16V 14A	Sign Structures: Sign Mounting Details — 8 Boring Location Plan	943		H-3 Freeway - Haiku: H-3 BL Sta. 324+50 to 407+50			and Titles
25		6H 1 6H 2		ADD. 944		H-3 Freeway - Haiku: H-3 BL Sta. 497+00 to 525+25			4/21/97 Revised and Added Sheet Numbers
AS AS			Boring Location Plan  Boring Location Plan	ADD. 945		H-3 Freeway - Haiku: CMS Installation - 1			and Titles
			Boring Location Plan	ADD. 946		System Details: CMS 29, 30 & 31 Elevations			Date Revision
	89		Boring Location Plan	ADD. 947	CC 16	System Details: CMS 39, 40, 41, 42, 43 & 44 Elevations			STATE OF HAWAII  DEPARTMENT OF TRANSPORTATION
_			Boring Log Legend	C.O. 948 C.O. 949	31 30 CV 57	Systems Plan: VMS 33 Civil Plan		ALL M. Up	HIGHWAYS DIVISION
_	91		Boring Logs	ADD. 950	31 3/ CY 59	Systems Plan: VMS 33 C.O. 948S-I SY56A Systems Plan: VMS 33: Civil Plan Systems Plan: VMS 34 C.O. 949S-I SY57A Systems Plan: VMS 35 C.O. 949S-2 SY57B Systems Details: VMS 33 & 34: Sign Manufaction VMS 35 Plan & Details		LICENSED Y	
89	92		Boring Logs	C.O. ADD. 951	SY 59	UNS 36 & CMS 35 Plan & Details	ruring Details	PROFESSIONAL **  ENGINEER **	LIST OF PLANS - 7
				ADD. 951	SY 60	VMS 36 & CMS 35 Plan & Details Systems Plan: VMS 37  C.O. 95IS-2 SY59R Systems Plan: VMS 36: Sign Manufactors  C.O. 95IS-2 SY59R Systems Plan: VMS 36: Sign Manufactors  C.O. 95IS-2 SY59R Systems Potail: VMS 36: Sign Manufactors		No. 7269-C	
	7	<u>. (or SY</u>	') SYSTEMS	ADD. 952 ADD. 953		Systems Plan: VMS 37  C.O. 95IS-2 SY59B Systems Detail: VMS 36: Sign Manufa	acturing Details	MAII, U.S.P.	
				954		Systems Plan: VMS 39	ты	S WORK WAS PREPARED BY ME	H-3 FINISH (UNIT II)
89	93	SY 1	Systems Legend, Abbreviations & Notes	C.O. 954S-I		Systems Plan: VMS 39: Civil Plan		OR UNDER MY SUPERVISION.	FAIP NO. I—H3—1(75), UNIT II LEEWARD SECTION
	94	SY 2	Systems Legend, Abbreviations & Notes		<del></del> -	·	A.	enble M. Val	SCALE: NONE DATE: JANUARY 1997
89	95	SY 3	Utility Agency, Abbreviations & Notes				$\mathcal{F}$		

Utility Agency, Abbreviations & Notes

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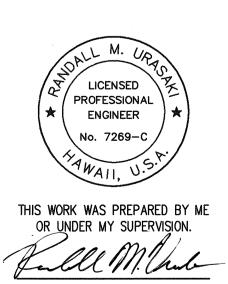
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	12	1102

SHEET SHEET NO.	TITLE	— C.O. 983S-I SY IO3A VMS 33, 34 & 36: Sign Support Structures -	SHEET SH	HEET NO.	<u>TITLE</u>	
079 CV 09 CHC C		C. O. 983S-2 SY IO3B VMS 33,34 & 36: Sign Support Structures -	2	05.40		
• •	Structures Summary & Notes	in in the second of the second	1022	8E 10	Temporary Lighting & Demolition Plan: H—1 Freeway (Part G)	
• •	Structures: CMS 31 & 40 to 42 Details		1023	8E 11	Temporary Lighting & Demolition Plan: H—1 Freeway (Part H)	
• • • • • • • • • • • • • • • • • • • •	Structures: CMS 29 & 30 Details — 1		1024		Temporary Lighting & Demolition Plan: H—1 Freeway (Part I)	
	Structures: CMS 29 & 30 Details — 2		1025		New Lighting Plan: H-1 Freeway (Part A)	
• •	Structures: CMS 29 & 30 Details — 3		1026	8E 14	New Lighting Plan: H-1 Freeway (Part B)	
983 SY 103 VMS Support	Structures Summary & Notes		ADD. 1027		New Lighting Plan: H-1 Freeway (Part C)	
984 FOR REFERENCE	E ONLY: Contract FAIP NO. I—H3—1(65): Genera	Notes 984S-I FOR REFERENCE ONLY: Contract FAIP No. I-H3-I(6	35)·		New Lighting Plan: H-1 Freeway (Part D)	
985 FOR REFEREN	E ONLY: Contract FAIP NO. I—H3—1(65): Details	for CMS 31, 38 to 40  Details for CMS 34 to 37	1029		New Lighting Plan: H-1 Freeway (Part E)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Details				New Lighting Plan: H-1 Freeway (Part F)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Details				New Lighting Plan: H-1 Freeway (Part G)	
	CE ONLY: Contract FAIP NO. I—H3—1(65): Details					
			1032		New Lighting Plan: H—1 Freeway (Part H)	
		for VMS 33 to 37, 39, 40, 43, 44, CMS 29 and CMS 30			New Lighting Plan: H—1 Freeway (Part I)	
	CE ONLY: Contract FAIP NO. I—H3—1(65): Box Tr		1034		Lighting Plan: Ramp EW	
	E ONLY: Contract FAIP NO. I—H3—1(65): Box Tr		1035		Lighting Plan: Moanalua Freeway (Part A)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Box Tr				Lighting Plan: Moanalua Freeway (Part B)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Box Tr		1037		Lighting Plan: Moanalua Freeway (Part C)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Box Tr	···			Lighting Plan: Ramp "WE" (Part A)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Miscella		1039		Lighting Plan: Ramp "WE" (Part B)	
	E ONLY: Contract FAIP NO. I—H3—1(65): Miscella		1040		Lighting Plan: Ramp "WE" (Part C)	
997 FOR REFERENCE	E ONLY: Contract FAIP NO. I—H3—1(65): Miscello	neous Details — 3	1041		Lighting Plan: H-1 Freeway (Part J)	
			1042		Lighting Plan: Moanalua Freeway & Ulune Extension	
•	g Location Plan		1043		Lighting Plan: Interstate Route H-3 (Part A)	
•	g Location Plan				Lighting Plan: Interstate Route H-3 (Part B)	
1000 7H 3 Systems Borin			1045		Lighting Plan: Interstate Route H-3 (Part C)	
1001 7H 4 Systems Borin			1046		Lighting Plan: Interstate Route H—3 (Part D)	
	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori		1047		Lighting Plan: Interstate Route H—3 (Part E)	
	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori		1048		Lighting Plan: Interstate Route H—3 (Part E)  Lighting Demolition Plan: Ramp N & Ulune Extension (Ramp A)	
1004 FOR REFERENCE	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori	ng Location Plan				
1005 FOR REFERENCE	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori	ng Logs	1049		Lighting Demolition Plan: Ramp N & Ulune Extension (Ramp B)	
1006 FOR REFERENCE	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori	ng Logs	1050		New Lighting Plan: Ramp N & Ulune Extension (Ramp A)	
	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori		1051		New Lighting Plan: Ramp N & Ulune Extension (Ramp B)	
	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori		1052		Lighting Plan: Moanalua Freeway (Part D)	
	E ONLY: Contract FAIP NO. I—H3—1(88):13: Bori		1053		Lighting Plan: Moanalua Freeway (Part E)	
	E ONLY: Contract FAIP NO. I—H1—1(7):13: Borin		1054		Lighting Plan: Moanalua Freeway (Part F)	
	E ONLY: Contract FAIP NO. I—H1—1(7):13: Borin		1055		Lighting Plan: Moanalua Freeway (Part G)	
	E ONLY: Contract FAIP NO. I—H1—1(7):13: Borin		1056		Lighting Plan: Moanalua Freeway (Part H)	
	E ONLY: Geometrics Plan: Sta. 333+27.85 to S		1057		Lighting Plan: Halekou Interchange (Part A)	
	CE ONLY: Geometrics Plan: Sta. 343+00 to 355+		1058		Lighting Plan: Halekou Interchange (Part B)	
	E ONLY: Log of Borings		1059		Lighting Plan: Halekou Interchange (Part C)	
	E ONLY: Geometrics Plan: Sta. 374+25 to Sta.	386+00	1060	8E 48	One—Line Diagram (Temporary Work): Kaamilo Substation	
	E ONLY: Log of Borings		1061	8E 49	One—Line Diagram (Demolition Work): Kaamilo Substation	
	E ONLY: Log of Borings		1062	8E 50	One—Line Diagram (New Work): Kaamilo Substation	
	E ONLY: Log of Borings		1063		One—Line Diagram: (Red Hill Substation)	
	E ONLY: Boring Location Plan		1064		One—Line Diagram: Halawa Substation (Part A)	
	E ONLY: Boring Logs		ADD. 1065		One—Line Diagram: Halawa Substation (Part B)	
	E ONLY: Boring Logs		1066		One—Line Diagram (Demolition Work): Halekou Interchange	
·	E ONLY: Boring Logs		1067		One—Line Diagram (New Work): Halekou Interchange	
The second secon			1068		One—Line Diagram: (Traffic Management System) — Part A	
			1069		One-Line Diagram: (Traffic Management System) - Part B	5/2/97 Revised and Added Sheet Numbers
8. ELECTRICAL			ADD. 1069S-1		Traffic Control System: Detailed Electrical Plans	and Titles
					<b>y</b>	4/21/97 Revised and Added Sheet Numbers
ADD. 1013 8E 1 Electrical Sym	ools, Abbreviations & Notes		ADD. 1069S-2		Traffic Control System: Detailed Electrical Plans	and Titles
-	Leeward Section		1070	8E 60	Traffic Control Equipment: Enclosure "A" Detail	Date Revision
1015 8E 3 Location Plan	Windward Section		1071 1072	8E 61 8E 62	Traffic Control Equipment: Enclosure "B" Detail  Kaamilo Substation Details: Electrical Plan	STATE OF HAWAII  DEPARTMENT OF TRANSPORTATION
1016 8E 4 Temporary Lig	nting & Demolition Plan: H—1 Freeway (Part A)					HIGHWAYS DIVISION
1017 8E 5 Temporary Lig	nting & Demolition Plan: H—1 Freeway (Part B)		1073		Lighting Control Center Detail	
, , ,	nting & Demolition Plan: H—1 Freeway (Part C)		ADD. 1074		Duct Section Details	LICT OF DIAME O
	nting & Demolition Plan: H—1 Freeway (Part D)		1075		WISCEITUTEOUS DETUIS	<u>LIST OF PLANS - 8</u>
, , ,	nting & Demolition Plan: H—1 Freeway (Part E)		1076		Miscellaneous Details	
	nting & Demolition Plan: H—1 Freeway (Part F)		1077		Typical Light Standard Details	H-3 FINISH (UNIT II)
ioni on ionipolary Lig	ing a complication right in the tracking (full i)				Typical Light Standard Details  THIS WORK WAS PREPARED BY ME	FAIP NO. I—H3—1(75), UNIT II
					Typical Light Standard Details  OR UNDER MY SUPERVISION.	LEEWARD SECTION
					Filell 11. Vanto	SCALE: NONE DATE: JANUARY 1997
						CHEET NO C10 OF 19 CHEETC
						SHEET NO. G12 OF 18 SHEETS
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	13	1102

	<u>SHEET</u> <u>SH</u> 1080 1081	8E 70 8E 71	TITLE  Typical Light Standard Details @ Concrete Parapet  Temporary Light Standard Detail			ADD. 1085S-2 8E 75B Highway Light Pole - Location Map  ADD. 1085S-3 8E 75C Light Pole Identification Plan - Interstate Route H-I  ADD. 1085S-4 8E 75D Light Pole Identification Plan - Interstate Route H-I  ADD. 1085S-5 8E 75E Light Pole Identification Plan - Halawa Interchange
	ADD. 1081S-1	8E 71A	Typical Light Standard Details @ Sound Barrier Wall			ADD. 1085S-6 8E 75F Light Pole Identification Plan - Halawa Interchange
	1082		Detail Electrical Plan: Parapet Mounted Luminaire			ADD. 1085S-7 8E 75G Light Pole Identification Plan - Halawa Interchange
	ADD. 1083	8E 73	Parapet Mounted Luminaire Detail			ADD. 1085S-8 8E 75H Light Pole Identification Plan - Halawa Interchange
	1084	8E 74	Sign Luminaire Detail			ADD. 1085S-9 8E 75I Light Pole Identification Plan - Interstate Route H-3
	1085	8E 75	Mounting Detail: New Junction Box @ Message Sign Post			ADD. 1085S-108E 75J Light Pole Identification Plan - Interstate Route H-3
	ADD. 1085S-1		Highway Lighting Pole Tag Detail			ADD. 1085S-11 8E 75K Light Pole Identification Plan - Interstate Route H-3
	1086		Detail Electrical Plan: Message Sign FMS E-68L,E-68R and E-74R			ADD. 1085S-128E 75L Light Pole Identification Plan - Interstate Route H-3
	1087					ADD. 1085S-13 8E 75M Light Pole Identification Plan - Interstate Route H-3
		8E 77	Detail Electrical Plan: Message Sign FMS E-64L, E-64R, E-8L, E-8C & E-8R			ADD. 1085S-148E 75N Light Pole Identification Plan - Interstate Route H-3
	1088	8E 78	Detail Electrical Plan: Message Sign FMS E-50L & E-50R			ADD. 1085S-158E 750 Light Pole Identification Plan - Interstate Route H-3
	1089		Detail Electrical Plan: Message Sign FMS E-33L, E-33C & E-33R			ADD. 1085S-168E 75P Light Pole Identification Plan - Interstate Route H-3
	1090		Detail Electrical Plan: Message Sign FMS E-2L, E-2C, E-2R, E-6L, E-6C & E-6R			ADD. 1085S-178E 75Q Light Pole Identification Plan - Kaneohe Interchange
	1091	8E 81	Detail Electrical Plan: Message Sign CMS 44, FMS E-15L, E-15C, & CMS 42			ADD. 1085S-188E 75R Light Pole Identification Plan - Kaneohe Interchange
	1092	8E 82	Detail Electrical Plan: Message Sign FMS E-54L, CMS 39, FMS E-56L & CMS 43			ADD. 1085S-198E 75S Light Pole Identification Plan - Kaneohe Interchange
	1093		Detail Electrical Plan: Message Sign FMS E—17L, E—17C, E—17R and FMS E—58L & E—58R			ADD. 1085S-208E 75T Light Pole Identification Plan — Halekou Interchange
	1094	8E 84	Detail Electrical Plan: Message Sign FMS E-30L & E-30R and CMS 40, FMS E-40C & E-40R			ADD. 1085S-21 8E 75U Highway Lighting Substation Equipment Plans
	ADD. 1095	8E 85	Detail Electrical Plan: Message Sign FMS E-37L, E-37C, E-37R, CMS 41 & FMS E-41R			ADD. 1085S-22 8E 75V Highway Lighting Substation Equipment Plans
	1096	8E 86	Detail Electrical Plan: Message Sign FMS E-39L, E-39R, E-52L & E-52R			ADD. 1085S-23 8E 75W Highway Lighting Substation Equipment Plans
	1097	8E 87	Detail Electrical Plan: Message Sign FMS E-27L, E-27C, E-27R, E-62L & E-62R		,	ADD. 1085S-24 8E 75X Light Pole Tag Schedule
	1098	8E 88	Detail Electrical Plan: Message Sign FMS E-63L, E-63R, E-60L, E-60C, E-60R & E-64			ADD. 10858-25 8E 75Y Light Pole Tag Schedule
	1099	8E 89	Detail Electrical Plan: Message Sign CMS 29 and CMS 30 & FMS E-76R			ADD. 1085S-26 8E 75Z Light Pole Tag Schedule
	1100	8E 90	Detail Electrical Plan: Message Sign CMS 31			ADD. 10000 ZO OL 10Z LIGHT TOIC TAG CONCACTO
	1101	8E 91	Temporary Section @ Exist Bridge Structure for Temporary Highway Lighting along H-1 Freeway			
	1102	8E 92	Panel Schedules			
	ADD. 1102S-1	8H1	Interstate Route H-3: Haiku Approach: Roadway Lighting	<del>-8 11</del>		
	ADD. 1102S-2	8H2	Interstate Route H-3: Haiku Approach: Pole Mounting Details — 1			
		8H3	Interstate Route H-3: Haiku Approach: Pole Mounting Details — 2	9H7	CO. 11025-2	A 8H2A Interstate Route H-3: Pole Mounting Details-I
	ADD. 1102S-4	0110	FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Electrical Legend — 1			
			, , , , , , , , , , , , , , , , , , ,	(E1)		
	ADD. 1102S-5		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Electrical Legend — 2	(E2)		
	ADD. 1102S-6		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): One Line Diagram and Panel Schedule	(EB1)		
	ADD. 1102S-7		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Power & Lighting Wiring - 2	(EB4)		
	ADD. 1102S-8		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Power & Lighting Wiring - 3	(EB5)		
	ADD. 1102S-9		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Viaduct Power & Lighting Wiring -1	(EB7)		
	ADD. 1102S-10		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —2			
				(EB8)		
	ADD. 1102S-11		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —3	(EB9)		
	ADD. 1102S-12		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —4	(EB10)		
•	ADD. 1102S-13		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —5	(EB11)		
	ADD. 1102S-14		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Viaduct Power & Lighting Wiring -6	(EB12)		
	ADD. 1102S-15		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Viaduct Power & Lighting Wiring -7	(EB13)		
	ADD. 1102S-16		FOR REFERENCE ONLY: Contract FAIP No. I-H3-1(66): Viaduct Power & Lighting Wiring -8	(EB14)		
	ADD. 1102S-17		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —9	(EB15)		
	ADD. 1102S-18		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —10	(EB16)		
	ADD. 1102S-19		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —11	(EB17)		
	ADD. 1102S-20		FOR REFERENCE ONLY: Contract FAIP No. I—H3—1(66): Viaduct Power & Lighting Wiring —12	(EB18)		
	C.O. 1102S-21		Interstate Route H-3 Windward Hwy: Electrical Plan	(LD10)		
	C.O. 11025-22		FOR REFERENCE ONLY: Contract FAIP No. I-H3-I(72): Street Light Standard Details	(E2O)		
	C.O. 1102S-23		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72): Street Light Standard from Edge of Should	-	(E20F)	
	C.O.1102S-24		FOR REFERENCE ONLY: Contract FAIP No. I-H3-I(72): Partial Street Light Distribution Oneline Did			
	C.O.1102S-25		FOR REFERENCE ONLY: Contract FAIP No. I-H3-I(72): Partial Street Light Distribution Oneline Dia			
				_	•	
	C.O. 1102S-26		Interstate Route H-3 Windward: Electrical Plan			
	C.O. 1102S-27		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72); Plan Section XIII: Electrical Plan	(EI7)		
	C.O. 1102S-28		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72): Traffic Signal Plan: Likelike & Kahekili Hwy			
	C.O. 1102S-29		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72): Typical Handhole Group Details	(El9)		
	C.O. 1102S-30		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72): Handhole and Manhole Group	(E19B)		
	C.O. 1102S-31		FOR REFERENCE ONLY: Contract FAIP No. 1-H3-I(72): Handhole Groups	(E19K)		
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4/21/97 Revised and Added Sheet Numbers and Titles

Date Revision

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

LIST OF PLANS — 9

H—3 FINISH (UNIT II)
FAIP NO. I—H3—1(75), UNIT II
LEEWARD SECTION

SCALE: NONE DATE: JANUARY 1997
SHEET NO. G13 OF 18 SHEETS

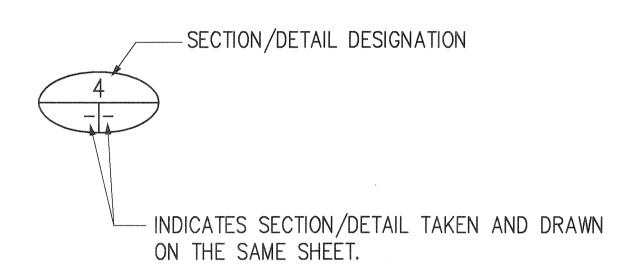
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REVIATIONS
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	14	1102

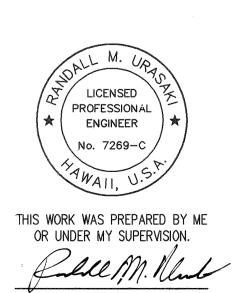
# LEGEND

-SECTION/DETAIL DESIGNATION - SHEET ON WHICH SECTION/DETAIL IS DRAWN - SHEET FROM WHICH SECTION/DETAIL IS TAKEN



NOTE:

THE ABBREVIATIONS AND LEGEND ON THIS PLAN APPLY TO ALL PLANS, UNLESS NOTED OTHERWISE.



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

## GENERAL ABBREVIATIONS AND LEGEND

H-3 FINISH (UNIT II)
FAIP NO. I-H3-1(75), UNIT II
LEEWARD SECTION

SCALE: NONE DATE: JANUARY 1997

SHEET NO. GI4 OF 18 SHEETS

A	AC, A.C.	ASPHALT CONCRETE	INV.	INVERT
A	APPROX.	APPROXIMATE		
-		DA OELINE	LBS.	POUNDS
Ę	<u>3</u>	BASELINE	LT.	LEFT
q	2	CENTERLINE	MAX.	MAXIMUM
C		CUT	MIN.	MINIMUM
C	C.Y.	CUBIC YARD	,	
C	CMP	CORRUGATED METAL PIPE	N	NORTH
C	COMM.	COMMUNICATION	N.I.C., NIC	NOT IN CONTRACT
C	CONC.	CONCRETE	N.T.S., NTS	NOT TO SCALE
C	CONT.	CONTINUOUS	NO., #	NUMBER
C	CRM	CEMENT RUBBLE MASONRY		
٦	ET.	DETAIL	O.B., OB	OUTBOUND
	) A, Ø	DIAMETER	O.C., OC	ON CENTER
L	η <b>Α,</b> Ψ	DIAMETER	0/S	OFFSET
E	· - -	EAST	PVC	POLYVINYL CHLORIDE
F	I.P., EP	EDGE OF PAVEMENT	PVM'T, PAVT.	PAVEMENT
			FVIVI I, FAVI.	I A VLIVILINI
	LEC.	ELECTRICAL	R	RADIUS
	LEV., EL.	ELEVATION	R/W, R.O.W.	RIGHT OF WAY
	MB.	EMBANKMENT	RCP	REINFORCED CONCRETE PIPE
	IXC.	EXCAVATION	REF.	REFERENCE
E	IXIST.	EXISTING	REINF.	REINFORCED, REINFORCING
F	-		RT.	RIGHT
		FILL		
ŀ	FAIP	FEDERAL AID INTERSTATE PROJECT	S.F., SF	SQUARE FEET
F	HWA	FEDERAL HIGHWAY ADMINISTRATION	SDMH	STORM DRAIN MANHOLE
F	T.	FOOT, FEET	SHT.	SHEET
			STA.	STATION
G	<b>SDI</b>	GRATED DROP INLET	STATE, DOT	STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION
G	R.	GRADE	STD.	STANDARD
G	RP	GROUTED RUBBLE PAVING		
			TYP.	TYPICAL
	HECO	HAWAIIAN ELECTRIC COMPANY	VEDT	VEDTICAL
H	IORIZ.	HORIZONTAL	VERT.	VERTICAL
ı	.B., IB	INBOUND	WWF	WELDED WIRE FABRIC
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#### **GRADING NOTES**

- 1. All grading work shall be done in accordance with Chapter 23, Grading, Soil Erosion and Sediment Control of the Revised Ordinances of Honolulu, 1978, as amended (Ordinance Nos. 81—13 and 90—71).
- 2. No Contractor shall perform any grading operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the costs incurred for any remedial action by the Chief Engineer shall be payable by the Contractor.
- 3. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust and other nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health.
- 4. All slopes and exposed areas shall be hydro—mulch seeded as soon as final grades have been established in accordance with the Specification & Grading Plan. 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.
- 5. Fills on slopes steeper than 5:1 shall be benched.
- 6. No grading work shall be done on Saturdays, Sundays and Holidays at any time without prior written notice to the Chief Engineer or District Engineer, State of Hawaii.
- 7. The limits of the area to be graded shall be flagged by the Contractor before the commencement of the grading work.
- 8. The City shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
- 9. 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.
- 10. Temporary Erosion Control Plan and procedures shall be submitted by the Contractor for approval prior to the start of actual grading operations.
- 11. Silt fence shall be installed along the edges of open channels & ditches in order to filter sediment from runoff, before water enters the channel.
- 12. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
- 13. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 14. Adequate provisions shall be made to prevent surface waters from damaging the cut face of an excavation or the sloped surfaces of a fill. Furthermore, adequate provisions shall be made to prevent sediment—laden runoff from leaving the site.
- 15. Where applicable and feasable the measure to control erosion and other pollutants shall be in place before any earth moving phase of the grading is initiated.
- 16. If the grading work involves contaminated soil, then all grading work shall be done in conformance with applicable State and Federal requirements.
- 17. Non-compliance to any of the above requirements shall mean immediate suspension of all work, and remedial work should commence immediately. All costs incurred shall be billed to the permitee. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.
- 18. For Bench Mark, see Sheet 1Z26.

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ORIGINAL SURVEY PLOTTED E
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# NATIONAL POLLUTANT DISCHARCE ELIMINATION SYSTEM (NPDES) GENERAL NOTES

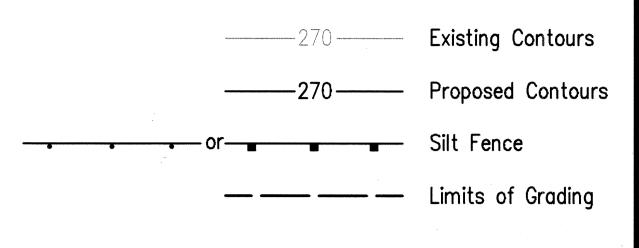
- (A) Erosion and Sediment Control Inspection and Maintenance Practices.
  - (1) The Contractor shall inspect the erosion and sediment control measures at least once a week or after 0.5 inches of rainfall.
  - (2) The Contractor shall maintain the erosion and sediment control measures according to the contract. If a repair is necessary, the Contractor shall initiate the repairs within twenty—four (24) hours after the inspection such as:
    - (a) When sediment build—up reaches one—third (1/3) the height of the silt fence, the Contractor shall remove and dispose of the sediment build—up from the silt fence.
    - (b) When the depth of the sediment basin reaches ten percent (10%) of the design capacity, the Contractor shall remove and dispose of the sediment build—up.
    - (c) When tears are found on the silt fence, the Contractor shall replace the fabric.
    - (d) The Contractor shall check to see if the fabric is securely attached to the fence posts and to see that the fence posts are firmly in the ground.
    - (e) The Contractor shall inspect the diversion dike and repair the breaches.
    - (f) The Contractor shall inspect temporary and permanent seeding and planting for bare spots, washouts, and healthy growth.
  - (3) The Contractor shall have its personnel make a maintenance inspection report promptly after each inspection. The Contractor shall select a minimum of three (3) personnel who will be responsible for inspection, maintenance, repair activities, and filling out the inspection and maintenance report. Personnel selected for the inspection and maintenance responsibilities will receive training from the Contractor. The Contractor shall train these personnel in the inspection and maintenance practices necessary for keeping the erosion and sediment used onsite according to the contract.
- (B) Submittal Requirements:
  - (1) Construction activities of five (5) acres or more.
    - (a) Storm water discharges into State waters due to construction activities of Five (5) acres or more, will require an NPDES permit from the Department of Health (DOH). The Contractor shall submit to the Engineer four (4) sets of Site-Specific Best Management Plans (BMP). The Plans shall be submitted no later than thirty (30) calendar days after the award of Contract.
    - (b) No construction activities will be authorized until the Contractor's Site—Specific BMP has been approved by the Highways Division.
  - (2) Construction activities dewatering and/or hydrotesting water.
    - (a) Discharges into State waters due to dewatering and/or hydrotesting activities will require NPDES Permit(s) from DOH. If the Contractor options to discharge dewatering and/or hydrotesting effluent into State waters, the Contractor shall submit to the Engineer four (4) sets of Site—Specific Dewatering and /or Hydrotesting BMP, and four (4) copies of the Quality of Discharge Test results. The Plans and test results shall be submitted no later than thirty (30) calendar days after the award of Contract.
    - (b) No dewatering and/or hydrotesting activities will be authorized until the receipt of the NPDES Permit(s) from DOH.

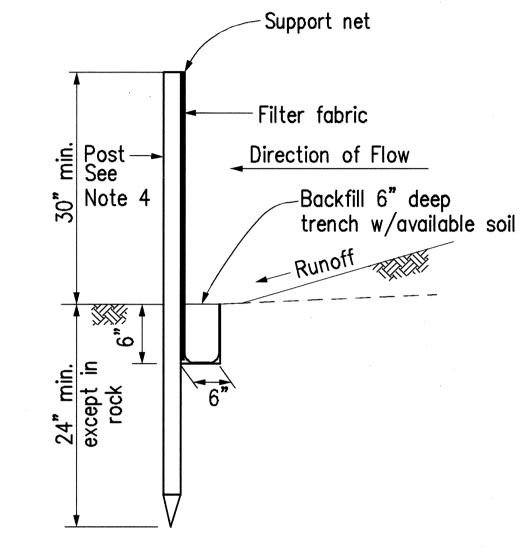
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1999	15	1102

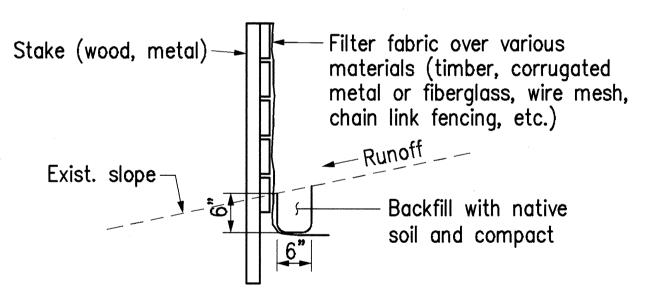
#### SILT FENCE NOTES

- specified and installed in combination with a support net of polyester netting or approved equal. The filter fabric shall be a mininum of 36 inches wide and the support net a minimum of 30 inches.
- 2. If silt fence is obtained from manufacturer as a package (i.e. fabric attached to post) the manufacturers installation instructions shall be adhered to.
- 3. Posts shall be metal where possible, cross section of post will be substantial enough to support a loaded silt fence without bending. Post spacing shall be 4 feet to 8 feet, depending on post size.
- 4. Some manufacturers only supply silt fence with wooden post. During installation, measures should be taken to prevent damage to post.



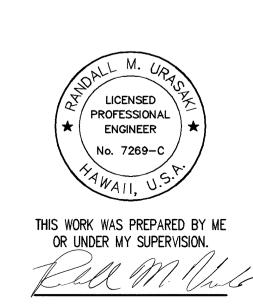


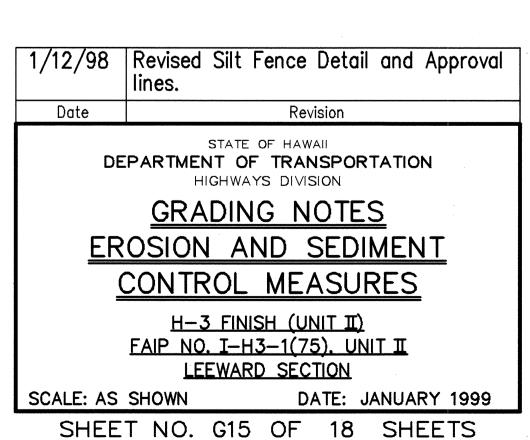




SILT FENCE DETAIL

Not to Scale





#### **ABBREVIATIONS:**

#### LEGEND:

abn,	ABN	Abandoned Baseline	<u>EXISTING</u>	PROPOSED	
B.V.		Bottom vertical			Eggilities to be
BWS	CD	Board of Water Supply	<del></del>		Facilities to be: removed, demolished, abandoned, or
-	CB	Catch basin Communications cable			relocated when new lines are in service
Ç,		Centerline			
cl.		Class	<del>//                               </del>		Facilities abandoned in place
clr.		Clear			Diable Of Way the annual time
CMU		Concrete masonry unit			Right-Of-Way line, property line
conc. CRM		Concrete Cement rubble masonry			Right-Of-Way line, property line
	CT	Cable television			g
-	D	Drainline			Right-Of-Way line, property line
DI		Ductile iron	*		No record of utility line elevation available
DIA.,	φ	Diameter	<b>*</b>		No record of utility line elevation available
<i>e</i> , Ehh	Ł	Electric Electric handhole	0	•	Utility pole, Street Light Pole
Elev.		Elevation	^	^	other polo, othoot Eight 1 olo
EMH		Electric manhole	w12	w12 0	Utility line on Profiles (water)
EP		Electric pole		<b>D.O.</b> 4	
EPB		Electric pullbox	———— D24 ———	——— D24 — <del>—</del>	Drain line (direction of flow)
FA		Fire alarm	W6	W6	Water line (6" dia.)
FH FLR.		Fire hydrant Floor	****	110	water line to did.)
g,	G	Gas	——— S8 ———	S8	Sewer line (8" dia.)
G.L.		Gas line	$\circ$ 4	0.4	
GMH		Gas manhole	—— G4 ———	——— G4 ———	Gas line (4" dia.)
GV		Gate valve	F	F	Electric line
HECO HH		Hawaiian Electric Company Handhole	L	<b>-</b>	
Ht.		Height	—— T ———	T	Telephone line
HTCO		Hawaiian Telephone Company			
MH		Manhole	——————————————————————————————————————	———CT ———	Cable television line
M/N		Water meter number	(ô) [o]		Mambala (badu 0. aayan)
O.C. PB		On center Pullbox			Manhole (body & cover)
PCC		Portland cement concrete	ЕЭ		Pullbox or water meter box
PVI		Point of intersection of vertical curve			
RC		Reinforced concrete		0	Gate valve, Bends
R/W	0	Right-Of-Way	- <b>ó</b> -	1	<b>F.</b>
<i>S</i> , SDMH	5	Sewer Storm drain manhole		<b>-</b>	Fire hydrant
si,	SI	Street lighting			Reinforced concrete jacket
SLP ,	-	Street light pole	ست حت حتا		Nontrologa controloga jacket
SMH		Sewer manhole			Trenchless Sleeve
S/N		Water service number			
Sta.	<b>T</b>	Station			Limits of Grading
<i>I</i> ,	1	Telephone			

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1999	16	1102

#### **GENERAL NOTES:**

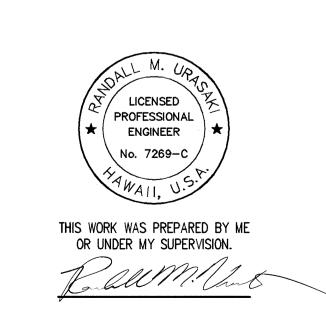
- 1. The Contractor shall verify the presence of existing aerial utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary.
- 2. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating the area.

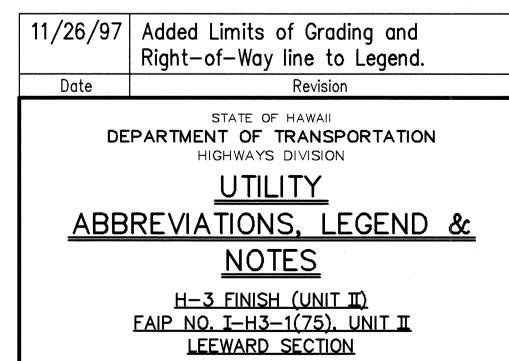
When the existing utility is in conflict with the proposed utility, the Contractor shall notify the Engineer. The Engineer will determine if relocation is necessary.

Whenever connection of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines to verify their locations and depths prior to excavation for the new lines.

All existing utilities whether or not shown on plan, shall be protected at all times during construction unless otherwise noted, and any damage to them shall be repaired and paid for by the Contractor. Personal injury resulting from contact with the existing utilities shall be the Contractor's responsibility.

- 3. When excavating near walls, fences, utility poles, traffic signal poles, and other improvements, the Contractor shall protect, support, secure and take all other precautions to prevent damaging these improvements.
- 4. MATERIALS:
  - A. All reinforcing steel shall be ASTM designation A615 Grade 40, unless noted.
  - B. All concrete shall be Class B, unless otherwise noted.
- 5. Utility structures are referenced by station and offset to the centerline of the structure body, unless otherwise noted on plan.
- 6. Surfaces of existing concrete against which concrete is to be placed shall be thoroughly cleaned of surface laitance and other material foreign to concrete.
- 7. The spacing between ducts of different sizes shall be in accordance with the spacing requirements of the larger duct. For spacing requirements between different utility systems, see "Title—VI Public Utilities Commission, Rules for Construction of Underground Electric and Communication Systems, General Order No. 10".
- 8. Topsoil within work area shall be removed, stockpiled, and reused for restoration of landscaping (payment incidental to various contract items).
- 9. Where utility service connections penetrate existing walls, restore wall to satisfaction of the Engineer. Payment for restoration of wall shall be considered incidental to various contract items.
- 10. Existing pullboxes, handholes, and manholes which are below finish grade shall be covered with steel plates (with skid resistant surface) until the existing facilities are removed or demolished in accordance with Section 202 of the Specifications (Payment for steel-plating shall be considered incidental to various contract items).
- 11. Steel plates for covering trenches shall have skid resistant surface.





DATE: JANUARY 1999

SHEET NO. G16 OF 18 SHEETS

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T & B

**TSP** 

2W x 5H

tbur, TBUR

TS

Top & bottom

Traffic signal

Top vertical

Water line

Water meter

Water manhole

Working pressure

2 wide x 5 high

Water

Vertical curve

Buried telephone cable

Telephone handhole

Telephone manhole

Traffic signal pole

C 0 1

SCALE: NONE

#### WATER NOTES:

- Unless otherwise specified, all material and construction of water system facilities and appurtenances shall be in accordance with the HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION, dated 1994, as amended, of the Hawaii Department of Transportation, Highways Division, the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS" VOLUME 1, DATED 1985, THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION" VOLUME 2, DATED 1985, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS" VOLUME 3, DATED 1991, 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, etc., and drainage and other features of improvements shall not be the responsibility of the Board of Water Supply.
- 3. The Contractor shall notify the BWS Planning and Engineering Division, Construction Section in writing and submit four sets of approved construction plans, 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 damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.
- 5. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees and bends wherever there is a possibility of water line movement due to removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure he deems necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction methods.
- 6. 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.
- 7. Test pressure shall be 150 psi.
- 8. The Contractor shall cut and plug all existing unused laterals at the main whether or not shown on the plans. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the Contractor.
- 9. Relocation of water meters shall be performed under the supervision of BWS personnel.
- 10. All fire hydrants to be removed shall be cleaned and returned to the BWS baseyard as directed by the Engineer.
- 11. 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.
- 12. Re—approval shall be required if this project is not under construction within a period of two years.
- 13. The Contractor shall chlorinate the entire inside surface of each pipe and fitting with disinfection solution of 5 ounces of Sodium Hyperchlorite mixed with 10 gallons of water. (For Connection Only).

- 14. The Contractor shall verify all existing service laterals & locations, whether or not shown on the plans, prior to commencing with any of the work and shall not assume that, where no services are shown none exist.
- 15. At the electrical/signal ductline water crossings, adjust all electrical/signal ductline elevations to maintain 6" vertical clearance from all water lines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to BWS.
- 16. Maintain 3'-0" min. horizontal clear separation between all waterline systems and nearest electrical/signal ductlines paralleling the water system at no cost to BWS.
- 17. Maintain 3'-0" min. horizontal clearance between street light/traffic signal, standards (including any modular units) and the nearest water system. Contractor shall field verify for any conflicts at each street light/traffic standard location. Where conflicts occur, the Contractor shall coordinate with the Project Engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the BWS.
- 18. All waterline construction requiring shutdown connectors shall be scheduled for normal working hours and maximum downtime shall be six (6) hours.
- 19. Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances.
- 20. The Contractor/Developer shall obtain a NPDES permit prior to chlorination and/or dewatering. A copy of the permit shall be submitted to the Board of Water Supply, Planning and Engineering Division, Construction Section.
- 21. Pipe cushion shall be of high resistivity material. The Contractor shall submit a soil certification that high resistant cushion material has a resistivity greater than 5,000 OHM—CM. Remainder of the backfill material shall be as specified in Volume 1 of the Water System Standards. Pipe cushion and backfill material shall contain no hazardous substances above regulatory action levels including but not limited to lead, asbestos, mercury, chromium, cadmium, zinc, strontium, and polychlorinated biphenyls (PCB).
- 22. Cleaning shall be by the use of "pigs" introduced into the pipeline and run completely through all installed pipelines and all branch lines for fire hydrants. "Pigging" of service laterals is not required. Bare foam "pigs" shall be used to swab piping clean as each length of the pipeline is installed. Each "pig" shall consist of a cylindrical piece of polyurethane foam with a density of 3-7 pounds per cubic foot and a vinyl-coated nose. Outside diameter of the "pig" shall be equal to 1-1/4 to 1-1/2 times the inside diameter of the pipe being installed. The length of the "pig" shall be 1-1/2 to 2 times its diameter. Prior to use, the "pig" shall be submerged in a chlorine solution of 1 oz. of 5% chlorine bleach in 5 gallons of water. "Pigging" of the pipeline shall be considered incidental to the installation of the new pipeline.
- 23. All ductline iron pipe, fittings, and valves shall be wrapped with two layers of 8 mil. polyethylene wrap, except when encased by concrete jacket.
- 24. Two—way blue reflective hydrant markers Type DB shall be installed at all new fire hydrant installations. Contractor shall verify the exact locations of hydrant markers with the nearest Honolulu Fire Department Battalion Chief.
- 25. 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.

- 26. All valves to be abandoned shall be removed, cleaned and returned to BWS. Demolish all valve boxes to be abandoned. Salvage, clean and return to BWS all abandoned manhole Cast Iron Frames and Covers.
- 27. For GRP Seal Details, see Sht. No. 1U27A.
- 28. For Trenchless Sleeve Details, see Sht. No. 1U27C.
- 29. For Retaining Wall Details, see Structural Shts.
- 30. The Contractor shall have existing water mains toned before construction of work in vincinity of water mains, call the investigation section at 527−5296 for toning services. Guardrail post locations are to be kept to a minimum clear distance of 18 inches to any 2−½ inch water lines and meter boxes. No post driving will be allowed when post is to be installed closer than 3 feet from water main. Excavated areas shall be restored to their original conditions.
- 31. The Contractor shall follow the following new chlorination and water sampling procedures:
  - A. The following chlorination and water sample collection procedure shall apply to all water pipeline projects:
    - Step 1: Chlorinate main per Water System Standards. Leave chlorinated water in main overnight. Chlorine concentration shall be a minimum of 50 parts per million (ppm).
    - Step 2: Test chlorinated water left in main for chlorine content. If chlorine content is less that 25 ppm, repeat Step 1. If chlorine content is greater than 25 ppm, go to Step 3.
    - Step 3: Flush main of all chlorine. Take bacteriological sample. Stop flushing and hold water in main for three (3) hours. After three (3) hours, take bacteriological sample of water being held. Indicate on the sample bottle label the amount of chlorine residual detected at the time of sampling as follows:
    - ++ high residual CL2 (greater than 0.1 ppm)
    - + trace residual CL2 (0.05 to 0.1 ppm)
    - no residual CL2 (less than 0.05 ppm)

Leave water in main overnight.

Step 4: Take bacteriological sample of water left overnight. Flush main to have a minimum of one change over. Stop flushing and hold water in main for three (3) hours. After three (3) hours, take bacteriological sample of water being held. Indicate on the sample bottle label the amount of chlorine residual detected at the time of sampling. Leave water in main overnight.

Step 5: Repeat Step 4.

- B. Three (3) consecutive water pipeline bacteriological samples collected 24 hours apart must be within the following guidelines: contain zero total and fecal coliform, and less than 200 colony forming units (CFU) of total bacteria when there is no residual chlorine.
- C. Chlorination, flushing, sampling and testing will be extended should unsatisfactory results be encountered. Any sample that shows positive coliform presence or total bacteria greater than 200 CFU is unsatisfactory.
- D. Water samples that show the presence of atypical colonies, debris or results inconsistent with existing water are subject to reconfirmation. BWS reserves the right to request and test additional water samples in the interest of safeguarding public health and safety.
- 32. For Connection Schedule, see Sht. No. 1U27E.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT II	1997	17	1102

#### GAS NOTES:

1. Prior written clearance must be obtained from GASCO, Inc., at least seven (7) calendar days before starting excavation near gas lines.

Since gas line locations on plans are approximate, the Contractor after obtaining a written clearance, shall call GASCO, Inc., a minimum of 48 hours before starting excavation. To arrange for field location of existing gas lines, call 547—3575 during business hours, or 526—0066 after hours.

- 2. For relocation of any gas pipeline, the Contractor shall notify GASCO, Inc., five (5) working days before starting work. The Contractor shall provide the necessary excavation and backfill, arrange for traffic permits, and restore pavement, sidewalks, or other facilities. Any relocation of gas facilities shall be done by GASCO, Inc.
- 3. The Contractor shall notify GASCO, Inc. immediately after any damage has been caused to existing gas pipelines, coatings or cathodic protection devices. Repair work on such damage shall be done by GASCO, Inc. and paid for by the Contractor.
- 4. Minimum vertical or horizontal clearance between gas pipelines and other pipelines, conduits, or ductlines shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the Contractor and approved by GASCO, Inc.
- 5. The GASCO, Inc. gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
- 6. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipelines exposed for as short a period of time as possible.

Chief, Planning & Engineering, BWS y Date

1/12/98 Revised Water Note 3.
Added Water Note 32.

9/19/97 Deleted sewer notes. Revised sheet title, Water Notes 3 & 22; added Water Notes 30 & 31.

5/2/97 Revised Sheet

Date Revision

LICENSED
PROFESSIONAL
ENGINEER
No. 7269-C

THIS WORK WAS PREPARED BY ME

OR UNDER MY SUPERVISION.

Jallan Oblo

WATER & GAS

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

H-3 FINISH (UNIT II)
FAIP NO. I-H3-1(75), UNIT II
LEEWARD SECTION

SHEET NO. G17 OF 18 SHEETS

DATE: JANUARY 1997

C.O. ADD. 17

SCALE: NONE

#### **SEWER NOTES:**

- 1. All sewer construction shall be performed in accordance with the City's Standard Specifications, Sept. 1986, the Department of Public Works Standard Details, Sept. 1984, current city practices and Revised Ordinances of Honolulu, 1990 as amended, and the Design Standards of the Department of Wastewater Management Vol. 1, July 1993.
- 2. In the event that any change in alignment or grade for the proposed sewers are required due to unforeseen conflict with other utilities, the engineer in charge or the maker of the plans shall be responsible for the required changes which are to be presented to the Department of Wastewater Management for approval.
- 3. The Contractor shall notify the Construction Section, Department of Wastewater Management at 527-5820 or 523-4345 to arrange for inspection services and submit four sets of approved construction plans seven days prior to commencement of sewer work. The Contractor shall pay for all inspection costs.
- 4. Crushed rock cradle is permitted where soil is stable. In areas of unstable soil, the maker of the plans and the construction engineer will determine the pipe support required.
- 5. The underground pipes, cables or ductlines known to exist by the Engineer from his research of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating the area. The Contractor shall be responsible and shall pay for all damaged utilities.
- 6. The Contractor shall be responsible for maintaining continuous sewer service to all affected areas during construction.
- 7. The Consulting Engineer shall submit to the Department of Wastewater Management mylar "as-built" tracings of the construction plans as actually constructed, showing all changes from the original plans.
- 8. The Contractor shall be responsible for any sewage spills caused during construction. The Contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedures. The Contractor shall be reponsible for all public notification and press releases.
- 9. The Contractor shall install "Rainstopper" manhole inserts in all sewer manholes with Type "SA" frame and cover.
- 10. S4C pipe cradle seals shall be installed 10 feet from all sewer manholes to prevent soil migration. See Detail on Sht. 1U18.
- 11. Confined Space

For entry by city personnel, including inspectors, into a permit required confined space as defined in 29 CFR Part 1910.146(b), the Contractor shall be responsible for providing:

- 1. All safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not limited to, the following:
- a. Full body harnesses for up to two personnel.
- b. Lifeline and associated clips.
- c. Ingress/egress and fall protection equipment.
- d. Two-way radios (walkie-talkies) if out of line-of-sight.
- e. Emergency (escape) respirator (10 minute duration).
- Cellular telephone to call for emergency assistance.
- g. Continuous gas detector (calibrated) to measure oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance at least 20-feet away).
- h. Personal multi-gas detector to be carried by inspector.
- 2. Continuous forced air ventilation adequate to provide safe entry conditions.
- 3. One attendant/rescue personnel topside (two, if conditions warrant it).

12. When connecting to a live sewer line, the Contractor shall notify the Department of Health, Clean Water Branch in writing of the impending connection to a live sewer line. The Contractor shall abide by all conditions that the Department of Health sets forth to mitigate any wastewater spill that may occur. Copies of all correspondences with the Department of Health shall be submitted to the Department of Wastewater Management prior to the actual connection.

> LICENSED PROFESSIONAL **ENGINEER** THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Dell Millet

FED. ROAD DIST. NO.

FED. AID PROJ. NO.

HAWAII | HAW. | I-H3-1(75), UNIT II | 1997

SHEET NO.

SHEETS

C.0. 17S-1 1102

9/19/97 | Added Sheet & Revised Sewer Notes.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

UTILITY NOTES <u>SEWER</u>

H-3 FINISH (UNIT II) FAIP NO. I-H3-1(75), UNIT II LEEWARD SECTION

DATE: JANUARY 1997 SCALE: AS SHOWN

SHEET NO. G17A OF 18 SHEETS

Chief, Div. of Planning & Service Control, WWM Date (For Sewer Work within Public R/W only)

AND DESCRIPTION OF THE PERSON	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	I-H3-1(75), UNIT II	1997	18	1102

#### HECO NOTES:

- 1. The Contractor shall give HECO, in writing, at least 40 calendar days advance notice of intent to commence work on the electrical system.
- 2. Existing electrical facilities shown on these plans are approximate only. The Contractor shall verify their actual locations and shall make adjustments to the proposed facility as directed by the Engineer.
- 3. For verifying the location of underground ductlines and for assistance in providing proper support and protection of underground ductlines, the Contractor shall contact the HECO Underground Superintendent at 543—7345, a minimum of 72 hours in advance.
- 4. HECO will coordinate its work with the Contractor in such a manner as to expedite construction.
- 5. The Contractor shall be liable for any damages to HECO's facilities. The Contractor shall report any HECO facility damage to the HECO Trouble Dispatcher at 543—7874.
- 6. Location and depth of all handholes and manholes shall be verified and approved in the field by HECO prior to excavation, construction, or installation.
- 7. Should it become necessary, as determined by the Engineer, relocation of HECO (overhead) facilities shall be done by HECO. The Contractor shall be responsible for all coordination.
- 8. The Contractor shall exercise extreme caution when the excavation and construction crosses or is in close proximity to underground electrical facilities and shall maintain minimum 13'-0" clearance for his equipment while working close to and/or under overhead facilities.
- 9. When trench excavation is adjacent to or under existing structures or facilities, the Contractor shall be responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave—ins and settlement, and for properly supporting existing structures and facilities with beams, struts or underpinning to fully protect it from damage.
- 10. The Contractor shall furnish and install all materials to complete construction of the underground ductline system, including riser conduits. All electrical ducts shall be encased in concrete jacket unless otherwise specified. All ducts and conduits shall be inspected and approved by HECO prior to placing concrete. The Contractor shall notify HECO's Inspection Division (phone 543—5668) at least 24 hours prior to placing concrete.
- 11. The Contractor is to mandrel test all ductlines in the presence of HECO's inspector prior to acceptance.
- 12. HECO to receive 75 working days notice for any relocation work.
- 13. The Contractor is to stake out all temporary and permanent pole locations so as not to conflict with any existing or proposed utility. The Contractor shall be responsible for cost incurred by conflicting utilities.

- 14. Barricading of HECO facilities, if required, shall be done by the Contractor. Breaking into existing HECO facilities shall be done by HECO.
- 15. All completed ductlines shall be mandrel tested by the Contractor in the presence of the utility company's Inspector using the utility company's standard practice.
- 16. The Contractor shall install a £" polyolefin pull line in all completed HECO ductlines after mandrel testing is complete.
- 17. The Contractor shall furnish its construction schedule 45 working days prior to starting any HECO work.
- 18. The Contractor shall install schedule 40 PVC conduit for all HECO ductline. No split ducts will be allowed.

  No notching of HECO boxes will be allowed.

#### HECO STANDARD DRAWING LIST:

Underground Standards

The following HECO Standard Drawings are applicable to this plan set:

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DRAWING TITLE	HECO STANDARD DRAWING N
Handhole Type 611(6'-0"x11'-0") Underground Standards	18844
Miscellaneous details Handholes & Manholes Underground Standards	16688
Typical duct construction Installation details Underground details	30-1030
Plastic Ducts Installation details Underground Structures	30-1035
Handhole Type 35V	18841

### HTCO NOTES:

- 1. The Contractor shall give HTCO, in writing, at least 30 calendar days advance notice of intent to commence work on the telephone system.
- 2. Existing telephone facilities shown on these plans are approximate only. The Contractor shall verity their actual locations and shall make adjustments to the proposed facility as directed by the Engineer.
- 3. For field location of HTCO facilities, contact HTCO's outside plant engineering section, a minimum of 72 hours in advance prior to start of excavation.
- 4. HTCO will coordinate its work with the Contractor in such a manner as to expedite construction.
- 5. Stake—out of new ducts shall be done by the Contractor, and verified by HTCO.
- 6. The Contractor shall exercise extreme caution when the excavation and construction crosses or is in close proximity to underground telephone and signal cable facilities and maintain adequate clearance for his equipment while working close to and/or under the overhead facilities. Any damage to the existing underground facilities shall be paid for by the Contractor.
- 7. The Contractor shall provide supports for cables where required and take any precaution necessary to prevent damage to existing cables. Any work involving existing cables or ducts shall be done in the presence of the HTCO inspector or his representative. Payment shall be considered incidental to various contract items.
- 8. All telephone ducts shall be encased in concrete jacket unless otherwise specified. All ducts shall be inspected and approved by HTCO before concrete placement. Advance notice of at least 24 hours shall be given before placing concrete.

#### HTCO STANDARD DRAWING LIST:

The following HTCO Standard Drawings are applicable to this plan set:

#### DRAWING TITLE

HTCO STANDARD DRAWING NO.

Standard duct formations Manhole details 34028

### CABLE TELEVISION NOTES:

- 1. Use standard electrical duct spacing for cable television ducts entering or exiting handholes and manholes. See HECO Standard Drawing Number 30—1030.
- 2. All cable television pullbox covers to be imprinted with "CATV" in lieu of "HT" specified in HTCO Standard Drawing Number 34056.

# ELECTRICAL AND MAINTENANCE SERVICES DIVISION NOTES:

The Contractor shall notify the joint pole committee two (2) weeks in advance of any relocation of utility pole that may be necessary.

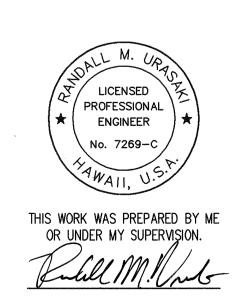
DRAWING REVIEW

Reviewed for HECO's Facilities Only

Date 1/13/43 By 1/16 16 55

Engineering Department
Hawaiian Electric Company, Inc.

HECO's review of these drawings shall in no way relieve the Customer, its Consultant, its Contractor or anyone acting on the Customer's behalf from the responsibility for engineering, design, materials and any other liability associated with this project.



5/2/97 Revised HECO Notes 1, 3, 5 & 10.
Added HECO Notes 12—18. Added
HECO signature block.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

Date

HIGHWAYS DIVISION

UTILITY NOTES

CABLE TELEVISION, ELECTRIC & TELEPHONE

<u>H-3 FINISH (UNIT II)</u> FAIP NO. I-H3-1(75), UNIT I

FAIP NO. I—H3—1(75), UNIT II

LEEWARD SECTION

SCALE: NONE DATE: JANUARY 1997

SHEET NO. G18 OF 18 SHEETS

# FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL SHEET NO. SHEETS HAWAII HAW. I-H3-1(75), UNIT II 1997 C.O. 18S-1 1102

#### **CONSTRUCTION NOTES:**

- 1. All construction work shall be done in accordance with the STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, Sept. 1986, and STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, Sept. 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
- 2. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 3. No Contractor shall perform any trenching operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the costs incurred for any remedial action by the Chief Engineer shall be payable by the Contractor.
- 4. The Contractor shall be responsible for 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.
- 5. The Contractor shall notify the Construction Section, Division of Engineering, Department of Public Works at 523—4883 to arrange for inspectional services and submit three (3) sets of approved construction plans seven (7) days prior to commencement of construction work.
- 6. The Contractor shall notify the private property owners and their lessees prior to removal of their landscaping and shall dispose landscaping unless otherwise requested to be salvaged. Payment for such work shall be considered incidental to various contract items.

## H.P.T.A. NOTE

Last Saved: J:\H3RF\RFU2\CO\CO-NOTE1.dwg 01/13/98 at 16:18

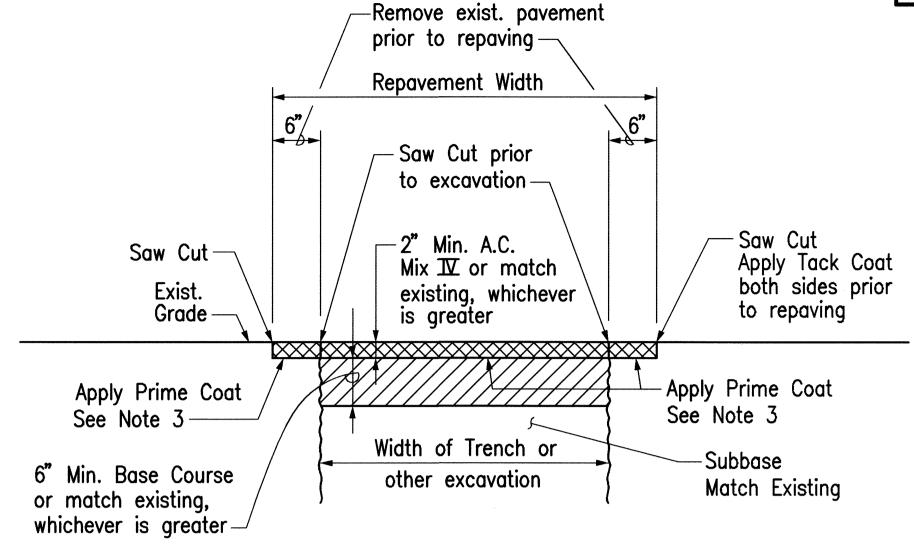
The Contractor shall notify Oahu Transit Services, Inc. (OTS), Ed Sniffen (848-4571) or Lowell Tom (848-4578), two weeks prior to construction, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.

#### PUBLIC HEALTH, SAFETY, AND CONVENIENCE

- 1. The Contractor shall observe and comply with all federal, state and local laws required for the protection of public health and safety and environmental quality.
- 2. The Contractor at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the Air Pollution Standards and Regulations of the State Department of Health. The city shall require supplementary measures as necessary.
- 3. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience, and safety of the public.

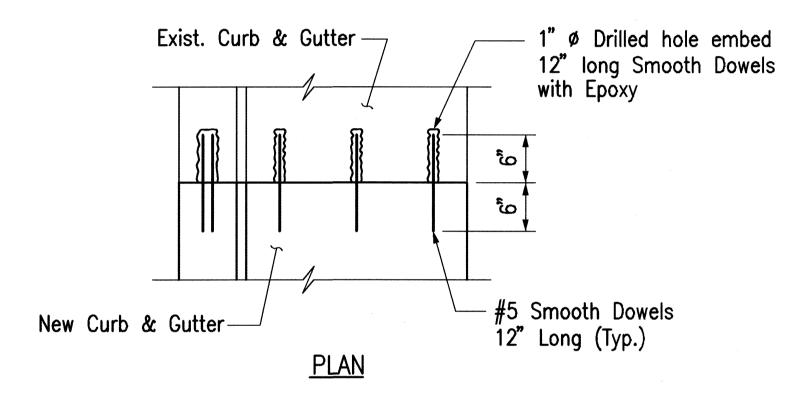
#### TRAFFIC NOTES:

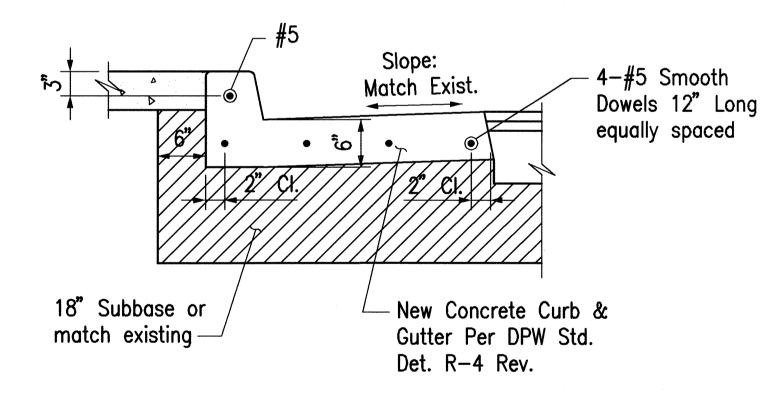
- 1. A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction traffic control plans approved by the DTS must be provided when applying for the permit.
- 2. The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with HAWAII ADMINISTRATION RULES GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS adopted by the Director of Transportation, and the current U.S. Federal Highways Administration's "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".
- 3. Work on any city street area may be performed only between the hours of 8:30 a.m. to 3:30 p.m., Monday through Friday; unless otherwise permitted by the Department of Transportation Services.
- 4. During working hours, the Contractor shall provide two lanes for through traffic. On streets too narrow to make this practicable, the Contractor may work in one half the roadway, keeping the other half open to traffic and alternating the flow of traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
- 5. As required by the Department of Transportation Service, the Contractor shall provide off—duty police officers to control the flow of traffic.
- 6. Driveways shall be kept open unless the owners of the property using these rights—of—way are otherwise provided for satisfactorily.
- 7. Where pedestrian walkways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
- 8. The Contractor shall reference, to the approval of the Department of Transportation Service, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts, and pavement markings disturbed by his activities. The Contractor shall notify the Department of Transportation Services at 523-4029 one (1) week prior to any any work to be done on signs, posts and pavement markings.
- 9. BWS shall ensure that the Contractor installs the construction traffic control devices in accordance with the MUTCD and HAWAII ADMINISTRATION RULES as specified in Traffic Note 2.
- 10. No material and/or equipment shall be stockpiled or otherwise stored within street rights—of—way except at locations designated in writing and approved by Department of Transportation Services.
- 11. Existing street lighting, and traffic signal facilities shall be maintained in operating condition throughout the construction project. Any relocation required shall be approved by the Electrical and Maintenance Division, Department of Transportation Services and paid for by the Contractor.
- 12. The Contractor shall notify the Department of Transportation Services, Traffic Signal Section, at 523-4961 one week prior to any excavation for street lighting or traffic signal facilities.
- 13. The Contractor shall notify OTS, Ed Sniffen or Trask Huddy at 848—4571, two weeks prior to construction, informing them of the location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.



#### TRENCH RESTORATION DETAIL

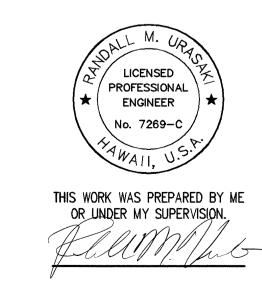
(For Construction within City Right-of-Way) Scale: 1'' = 1'-0''





# **CURB & GUTTER RESTORATION DETAIL**

(For Construction within City Right-of-Way) Scale: 1'' = 1'-0''



#### NOTES:

- 1. Detail not applicable where pavement will be reconstructed. Contractor shall restore pavement, as necessary, for maintenance of traffic, pedestrians, etc.
- 2. Payment for restoration of existing pavement will be considered incidental to various contract items.
- 3. For road grades 0% to 7.99% and prime coat is not available, none required. If prime coat is available, use prime coat.

1/12/98 Revised Trench Restoration Detail and added Note 3.

12/23/97 Added Trench Restoration Detail and Curb & Gutter Restoration Detail.

11/26/97 Added Sheet.

Date Revision

# GENERAL NOTES

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

H-3 FINISH (UNIT II)
FAIP NO. I-H3-1(75). UNIT II
LEEWARD SECTION

SCALE: AS SHOWN

SHEET NO. G18A OF 18 SHEETS

DATE: NOVEMBER 1997