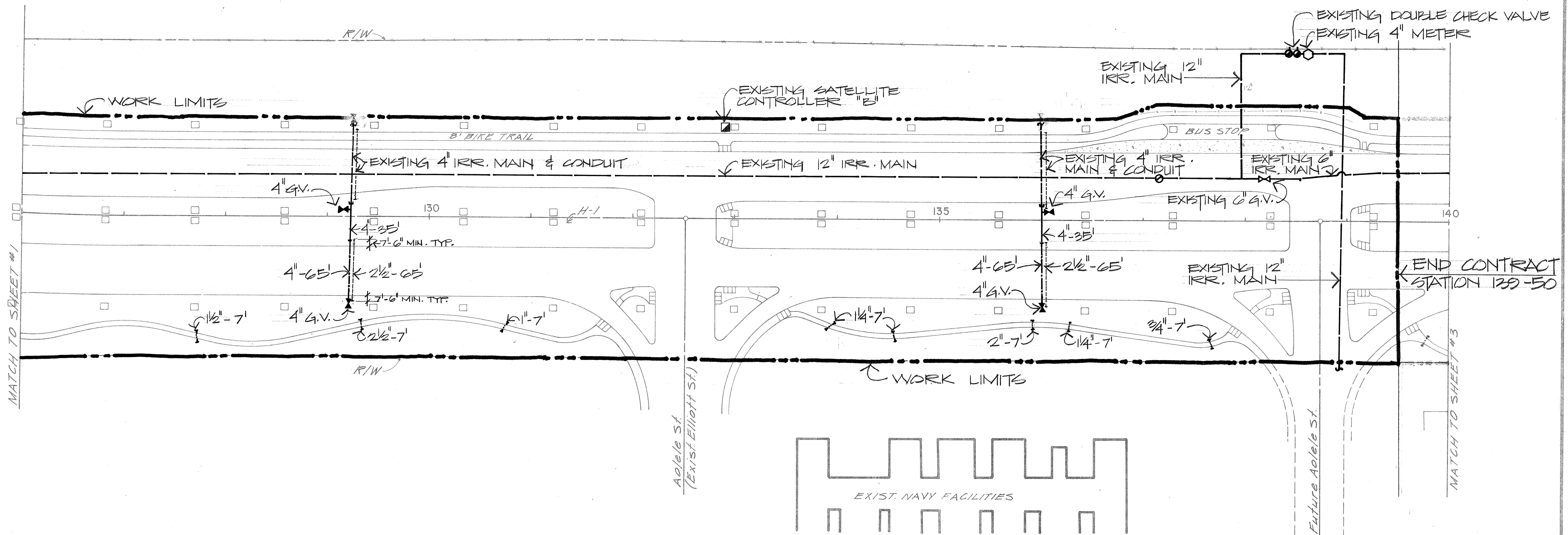
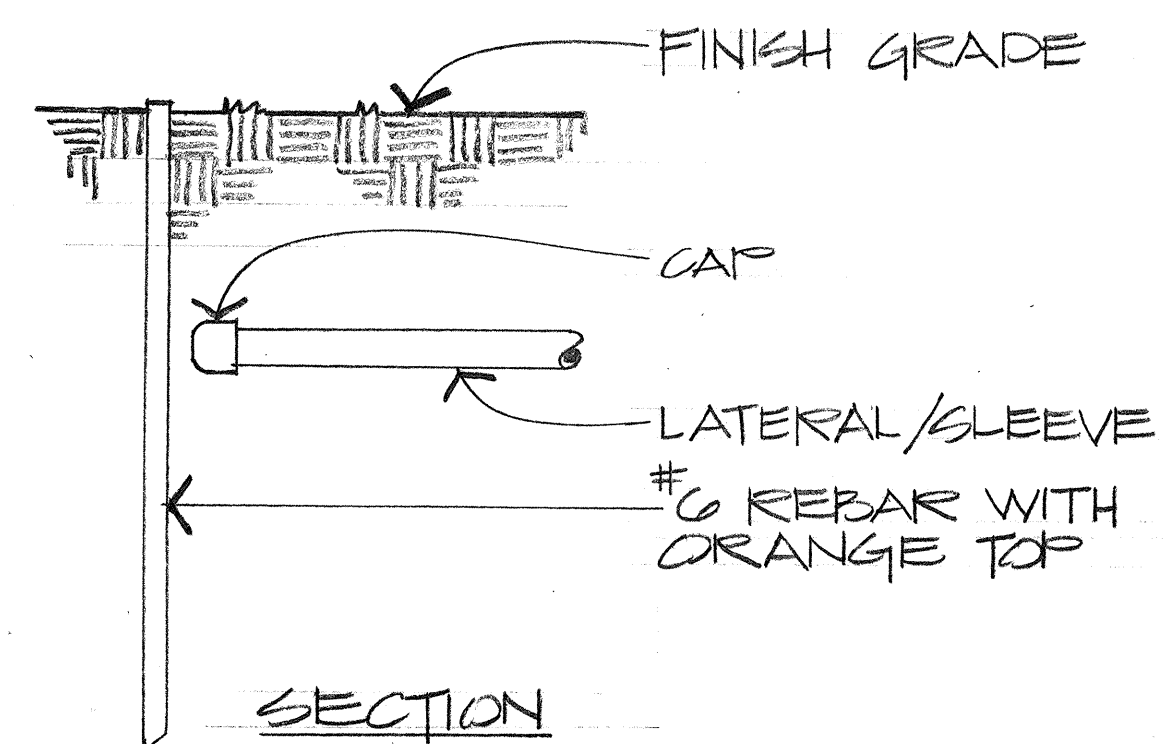
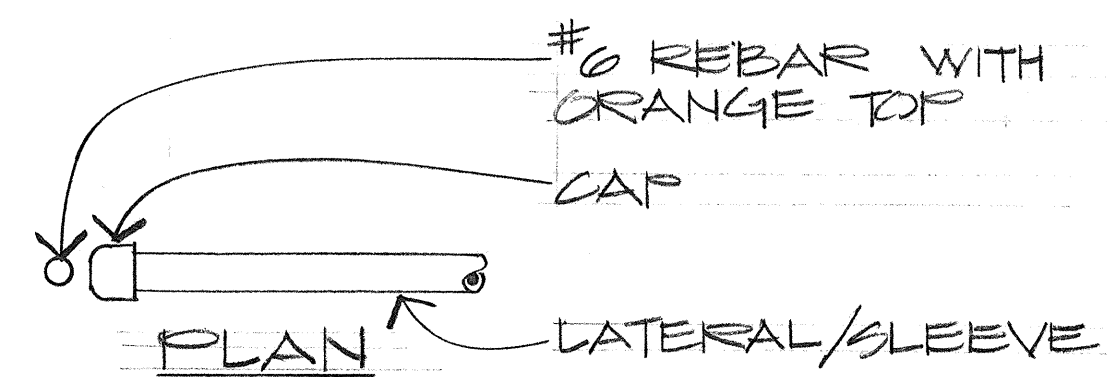


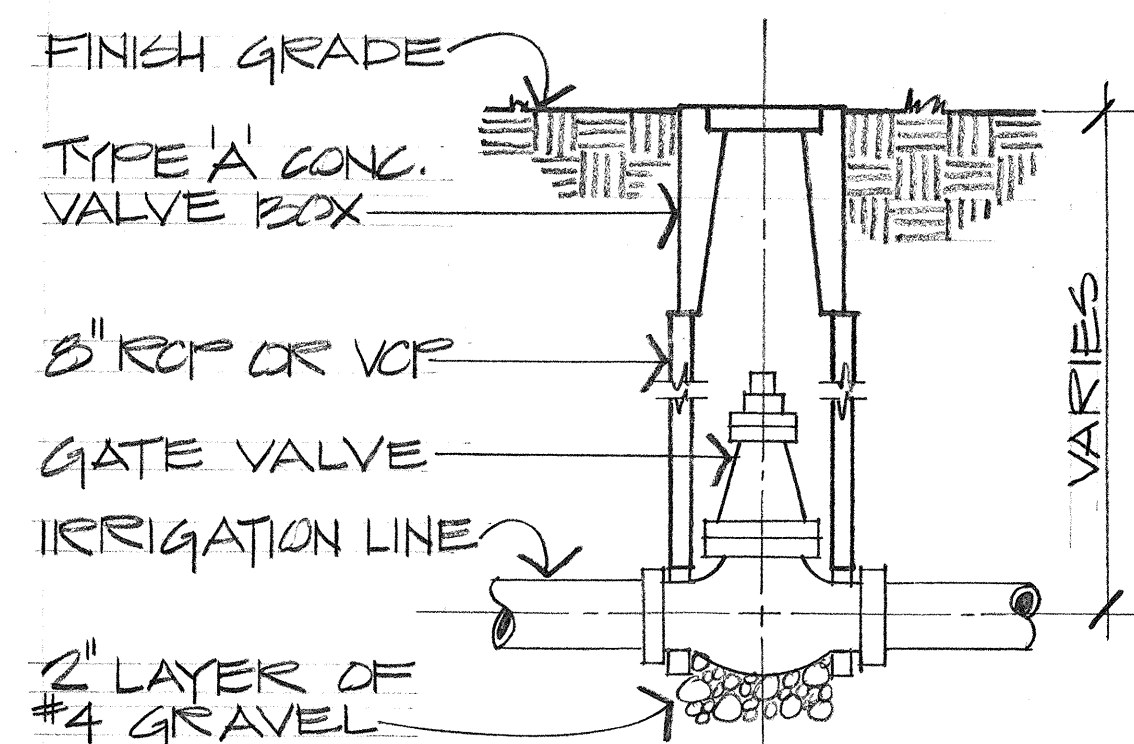
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H1-1(156)16	1979	93	236



PARTIAL IRRIGATION PLAN



CAPPED LATERAL & SLEEVE LOCATION DET.
NO SCALE



GATE VALVE DETAIL
NO SCALE

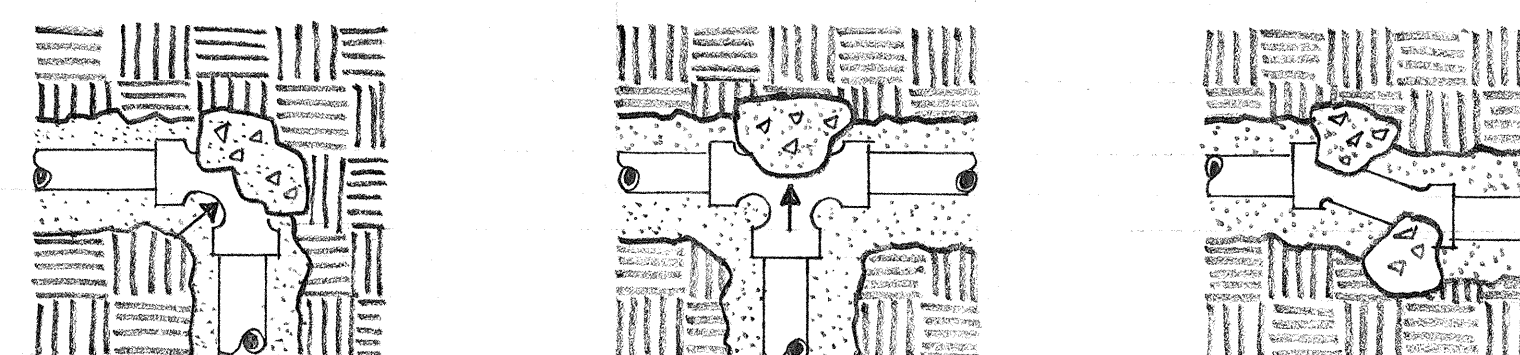
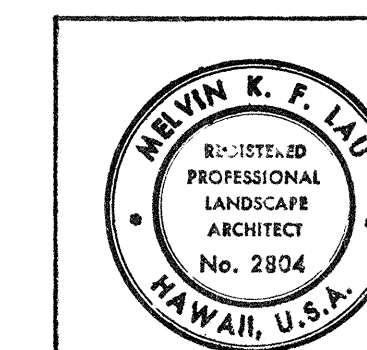
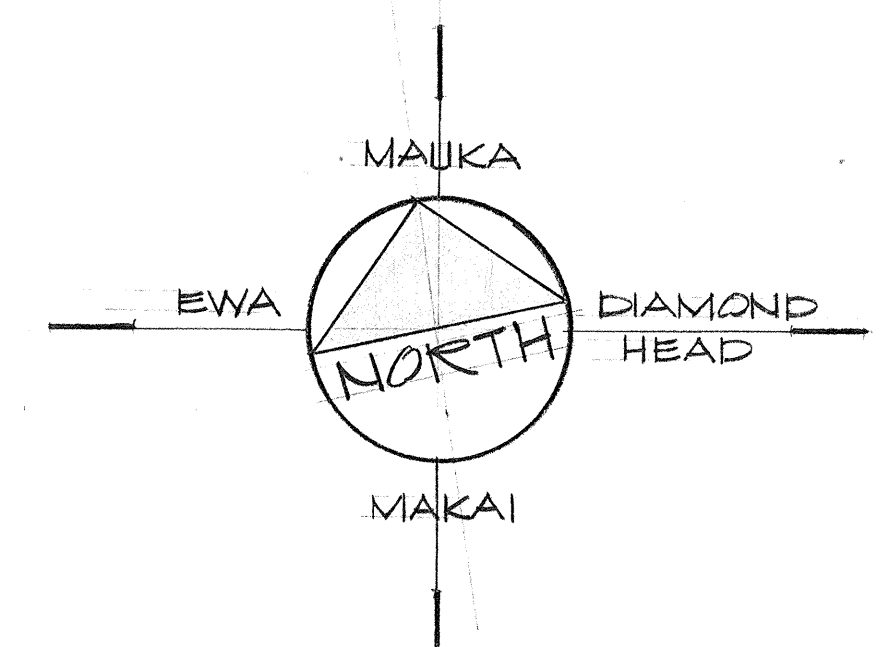


TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

PIPE SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
TEES & CROSSES	0.50	0.50	0.50	0.50	1.00	1.25	3.00
90° BEND	0.50	0.50	0.50	0.75	1.25	2.00	4.00
45° BEND	0.50	0.50	0.50	0.50	0.75	1.00	2.25

TYPICAL THRUST BLOCK DETAILS
NO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Melvin K. F. Liu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

IRRIGATION PLAN
PIPE SUB-OUTS & SLEEVES

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. 1-H1-1(156):16
SCALE: AS SHOWN DATE: 11-2-78
SHEET NO. L-2 OF 3 SHEETS

SPRINKLER SUMMARY
ESTIMATED QUANTITIES

ITEM NO.			ITEM	UNIT	ROADWAY CROSSING STATION 113 + 00	SIDEWALK CROSSING STATION 113 + 70	SIDEWALK CROSSING STATION 114 + 50	SIDEWALK CROSSING STATION 114 + 90	SIDEWALK CROSSING STATION 115 + 30	ROADWAY CROSSING STATION 115 + 75	SIDEWALK CROSSING STATION 117 + 10	ROADWAY CROSSING STATION 118 + 10	SIDEWALK CROSSING STATION 118 + 20	SIDEWALK CROSSING STATION 119 + 00	SIDEWALK CROSSING STATION 119 + 25	SIDEWALK CROSSING STATION 120 + 90	SIDEWALK CROSSING STATION 121 + 90	ROADWAY CROSSING STATION 122 + 10	SIDEWALK CROSSING STATION 122 + 25	SIDEWALK CROSSING STATION 123 + 70	SIDEWALK CROSSING STATION 125 + 70	SIDEWALK CROSSING STATION 127 + 70	ROADWAY CROSSING STATION 129 + 25	SIDEWALK CROSSING STATION 129 + 85	SIDEWALK CROSSING STATION 130 + 80	SIDEWALK CROSSING STATION 133 + 95	SIDEWALK CROSSING STATION 134 + 60	SIDEWALK CROSSING STATION 135 + 90	ROADWAY CROSSING STATION 136 + 00	SIDEWALK CROSSING STATION 136 + 40	SIDEWALK CROSSING STATION 136 + 65	TOTAL
616	0650		2 1/2 INCH RIGID STEEL PIPE SLEEVE	LN. FT.					58									60					65						65			254
616	1110		3/4 INCH COPPER PIPE	LN. FT.		10		8						7	16					18										7		66
616	1120		1 INCH COPPER PIPE	LN. FT.	65						7										7				7							86
616	1130		1/4 INCH COPPER PIPE	LN. FT.					125			22	8			7										7	7			7		186
616	1140		1/2 INCH COPPER PIPE	LN. FT.			7														7											14
616	1150		2 INCH COPPER PIPE	LN. FT.													7		7										7			21
616	1160		2 1/2 INCH COPPER PIPE	LN. FT.																				7								7
616	1380		4 INCH GALVANIZED STEEL, COPPER, OR PVC PIPE	LN. FT.						108								30						35						35		208
616	1910		4 INCH CAST IRON PIPE (CLASS 150)	LN. FT.						58								66						65						65		254
616	2890		4 INCH GATE VALVE W/VALVE BOX	EACH						2								2						2						2		8

SPRINKLER LEGEND

SYMBOL	DESCRIPTION
■	EXISTING CONTROLLER
----	EXISTING IRRIGATION MAIN
----	EXISTING GALVANIZED IRON PIPE SLEEVE
----	NEW IRRIGATION MAIN - CAST IRON
----	NEW IRRIGATION MAIN - PVC
----	NEW IRRIGATION LATERAL - COPPER
----	NEW GALVANIZED IRON PIPE SLEEVE
✕	NEW GATE VALVE

IRRIGATION NOTES

1. FINAL LOCATIONS OF GATE VALVES, SUPPLY LINES & G.I. PIPE SLEEVES SHALL BE DETERMINED BY THE ENGINEER.
2. CONCRETE REACTION BLOCKS SHALL BE CLASS "B" CONCRETE.
3. ALL IRRIGATION PIPE UNDER PAVED AREAS SHALL BE COPPER.
4. NO ROCKS OR SHARP OBJECTS ONE INCH OR LARGER SHALL BE USED IN BACKFILL MATERIAL FOR TRENCHES.
5. CAP & MARK LOCATIONS OF ALL PIPE STUB-OUTS & SLEEVES.

ORIGINAL SURVEY PLOTTED BY
DATE
DRAWN BY
DESIGNED BY
CHECKED BY
No.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Mark L. J. Fan

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

MRVIN K. F. LIU
REGISTERED
PROFESSIONAL
LANDSCAPE
ARCHITECT
No. 2804
HAWAII, U.S.A.

SPRINKLER SUMMARY
LEGEND AND NOTES

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NONE DATE: 11-3-78
SHEET NO. 13 OF 3 SHEETS

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