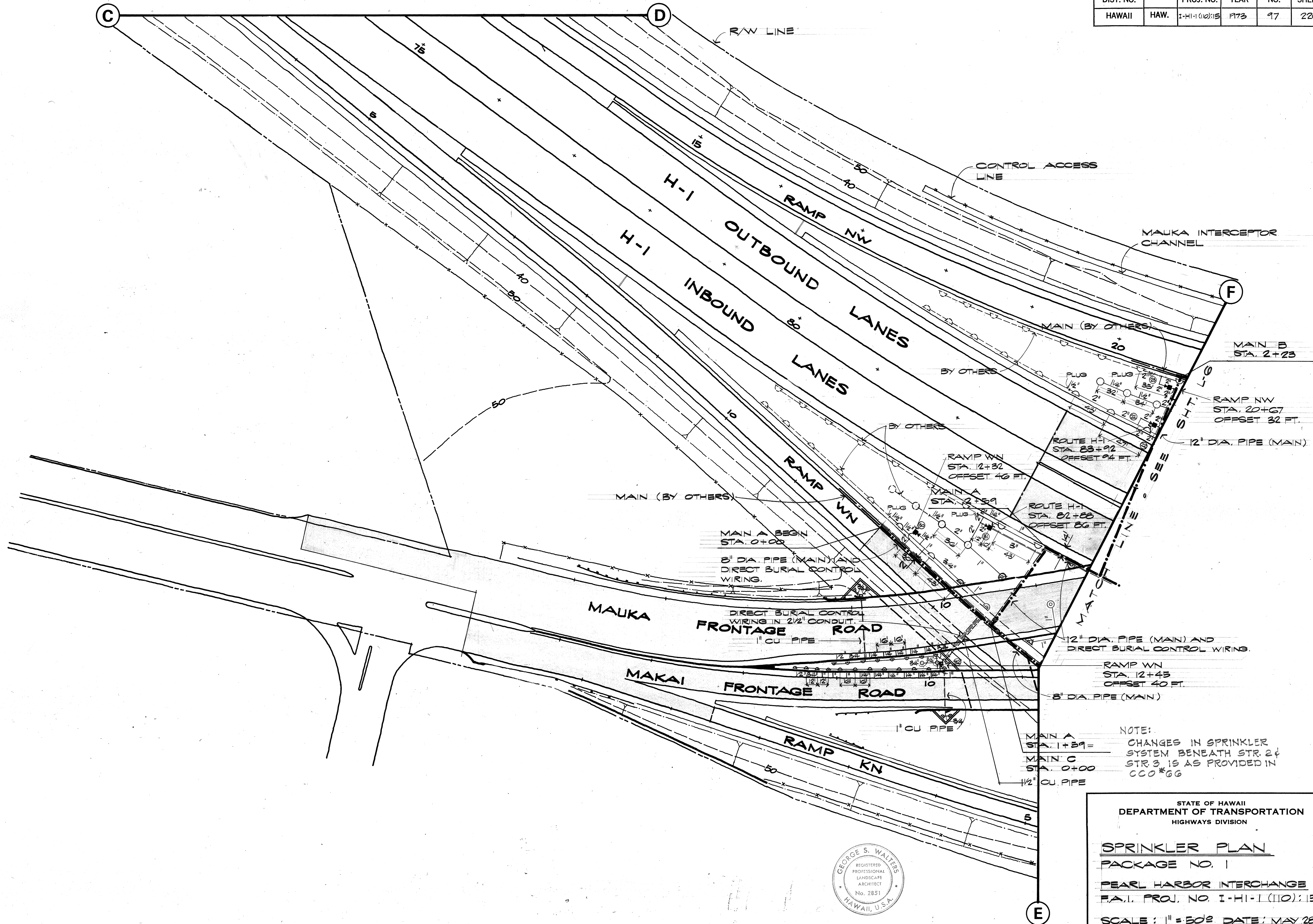


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H-1(110)15	1973	97	220



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER PLAN
PACKAGE NO. 1

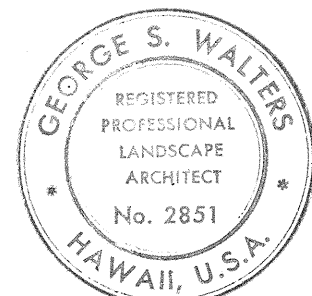
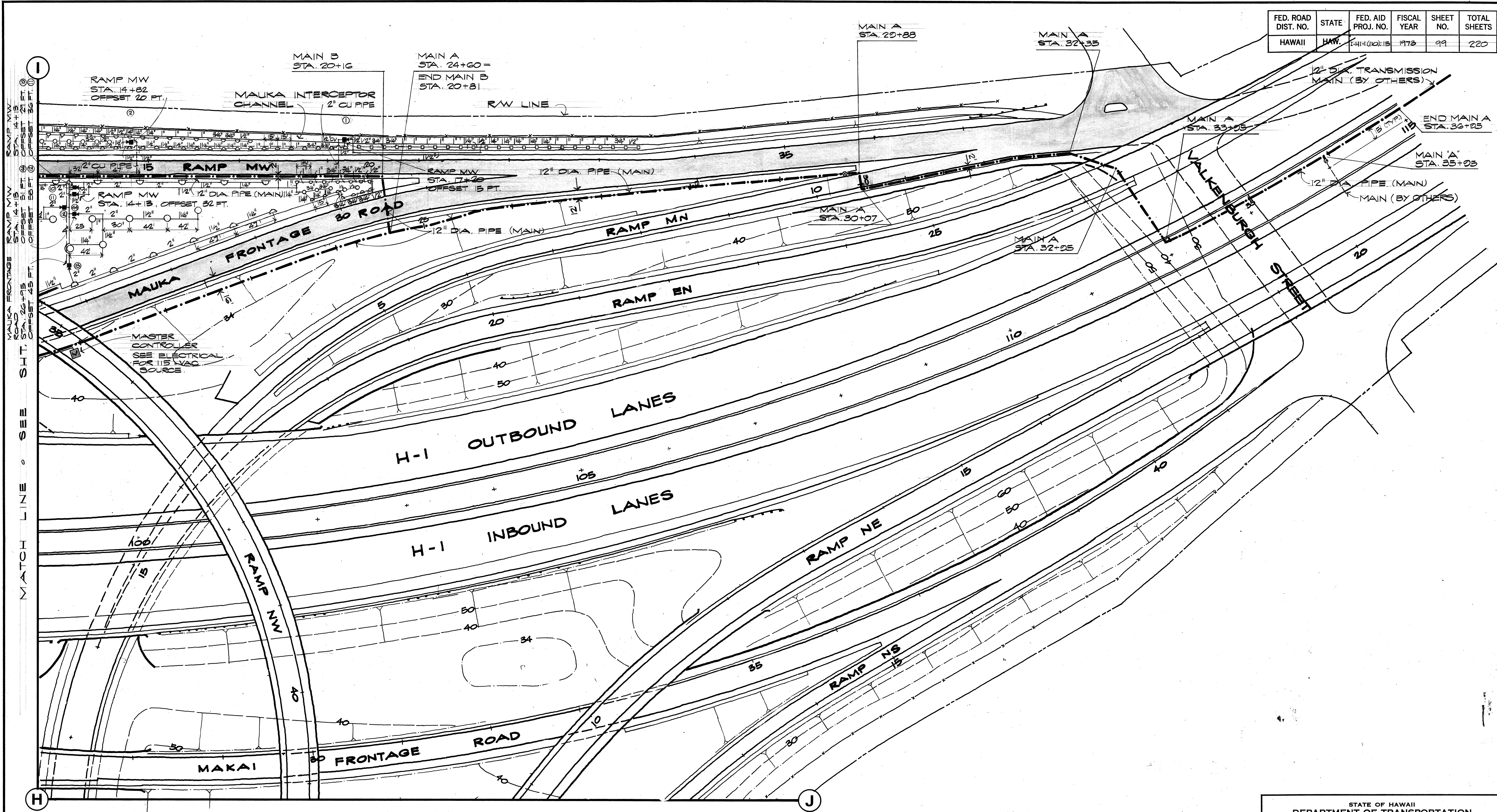
PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. 1-H-1(110)15

SCALE: 1" = 50' DATE: MAY 28, 73

SHEET NO. 1-5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-41-1(10)15	1973	99	220

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

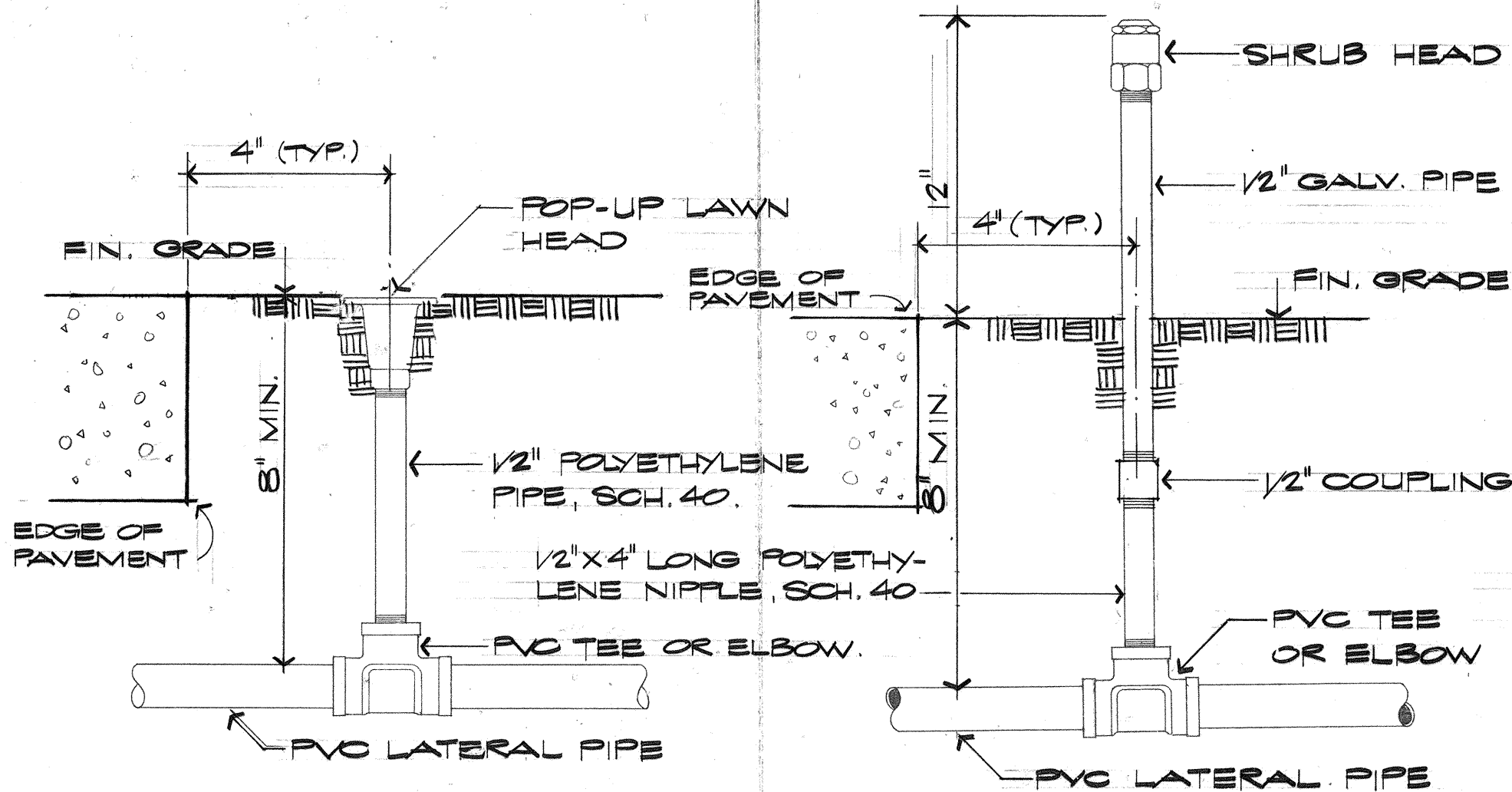
SPRINKLER PLAN
PACKAGE NO. 1

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-H-1(10)15

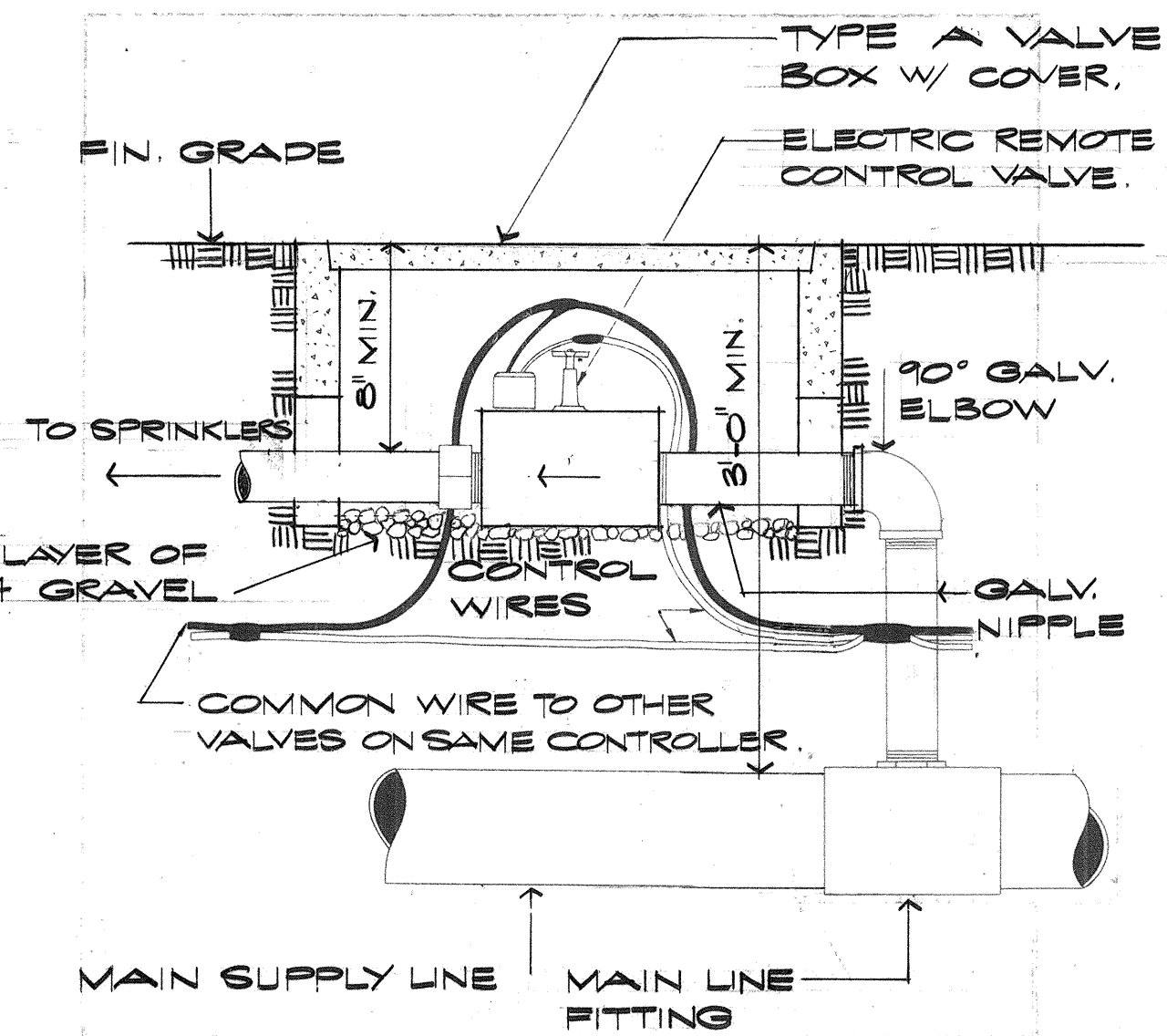
SCALE: 1"=50' DATE: MAY 28, 73

SHEET NO. 7 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(110)	1973	100	220



NOTE:
USE 1/2" POLYETHYLENE PIPE ON ALL POP-UP LAWN AND SHRUB HEADS DIRECTLY ADJACENT TO ROADWAY SHOULDERS. USE 1/2" GALV. STEEL PIPE RISER FOR REMAINING TYPES OF HEADS MENTIONED ABOVE.

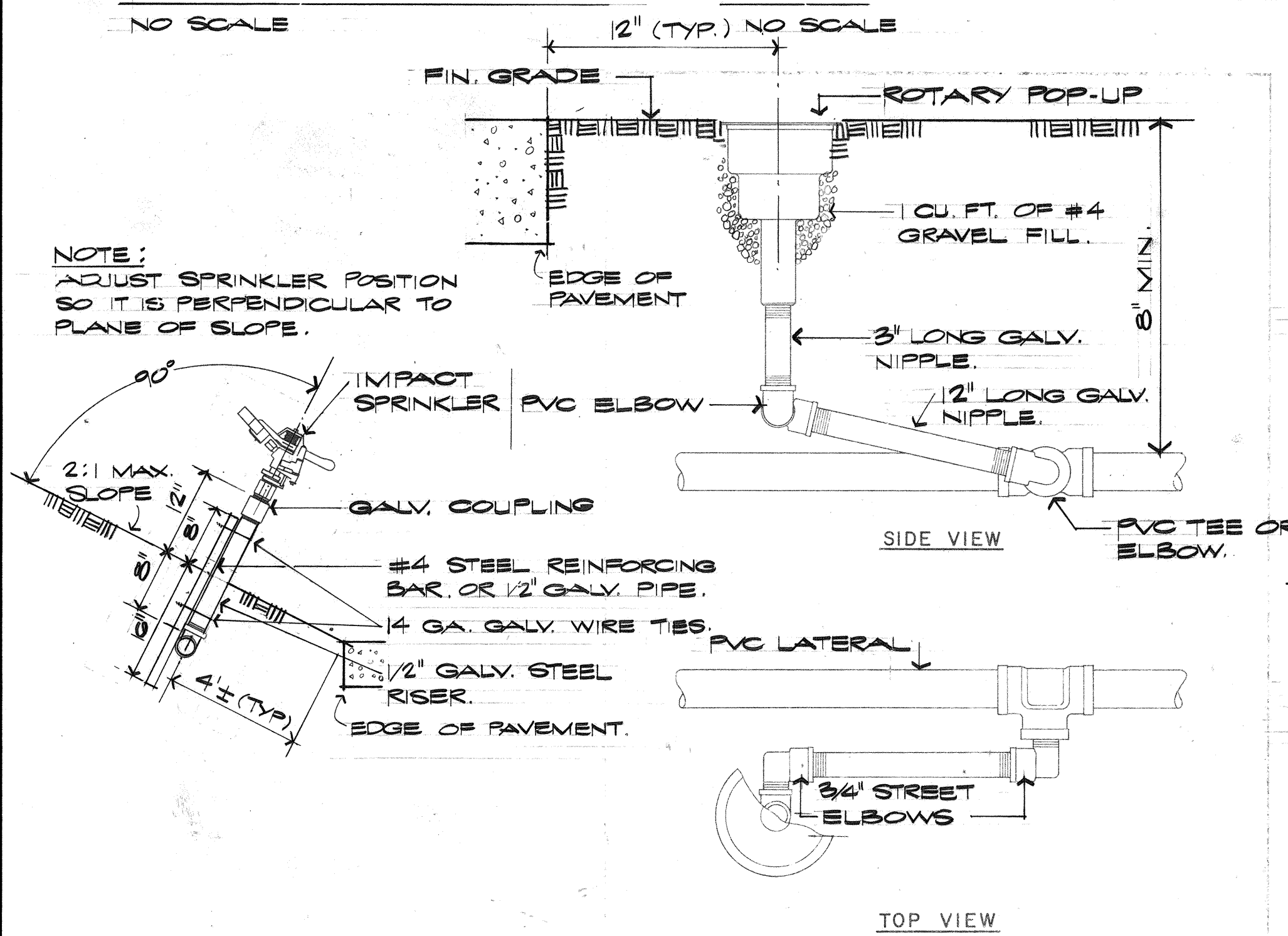


TYPICAL POP-UP HEAD AND STRIP SPRAY DETAIL
NO SCALE

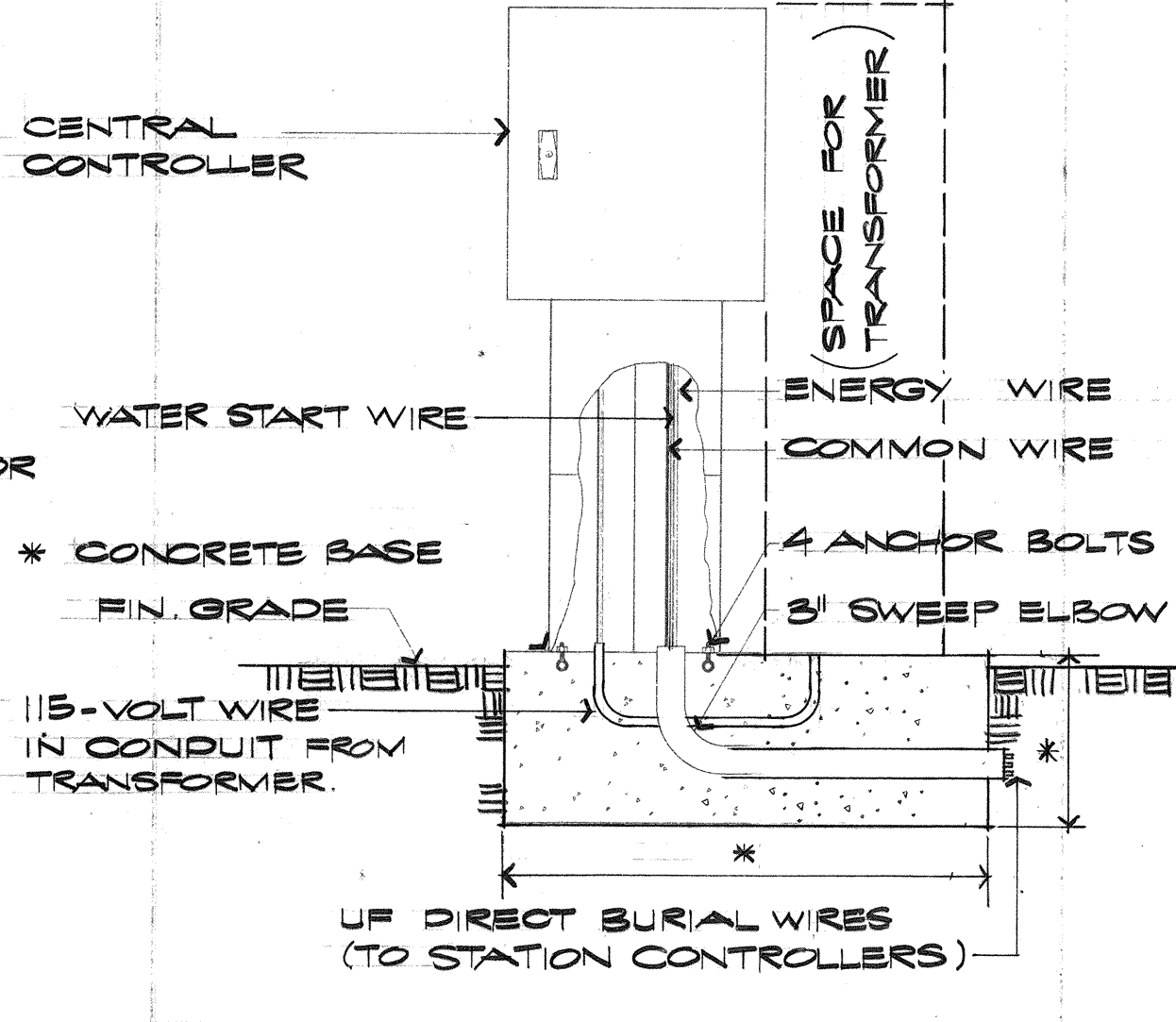
TYPICAL SHRUB HEAD DETAIL
NO SCALE

SOLENOID VALVE DETAIL
NO SCALE

NOTE:
SEE ELECTRICAL PLANS FOR ELECTRICAL TRANSFORMER DETAILS.
ADDITIONAL CONCRETE BASE REQUIRED FOR ELECTRICAL TRANSFORMER ON CENTRAL CONTROLLER ONLY.



NOTE:
ADJUST SPRINKLER POSITION SO IT IS PERPENDICULAR TO PLANE OF SLOPE.

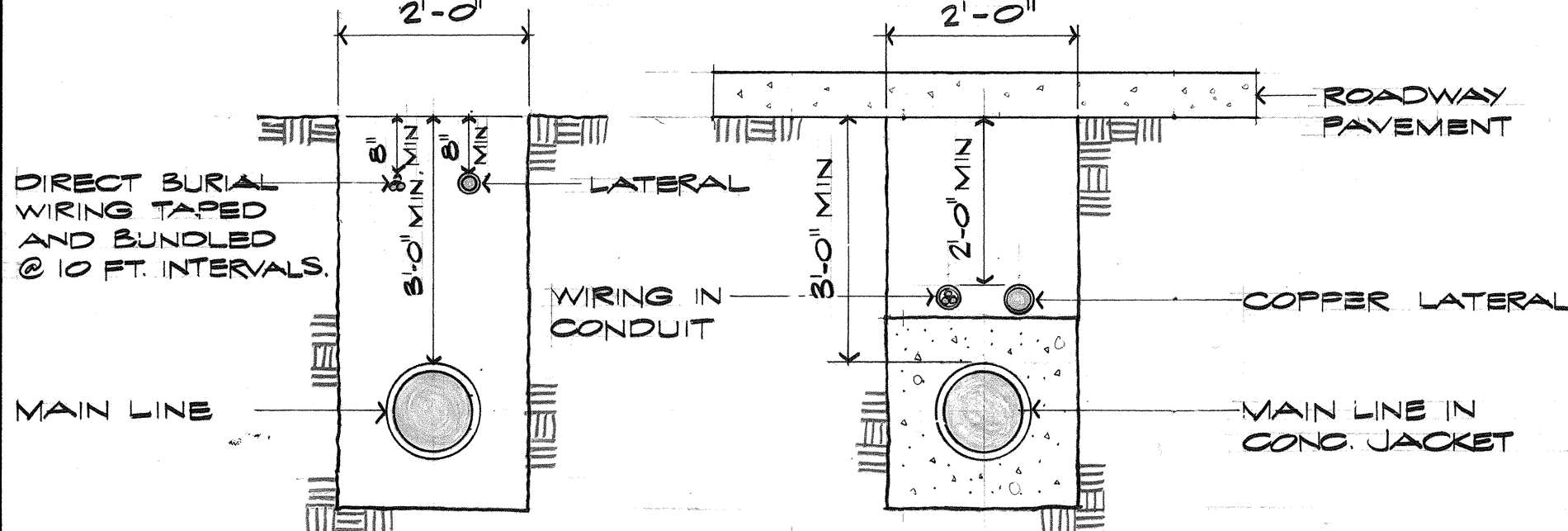


IMPACT HEAD DETAIL
NO SCALE

ROTARY POP-UP DETAIL
NO SCALE

CONTROLLER DETAIL
NO SCALE

NOTE:
CONCRETE BASE TO BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

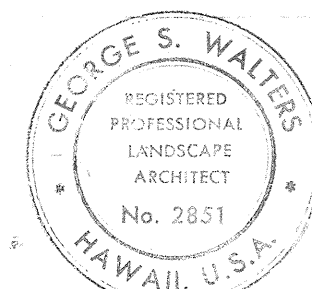


TYPICAL PIPE TRENCHING DETAIL
NO SCALE

SPRINKLER LEGEND									
SPRINKLER	SYMBOL	DESCRIPTION	PRESSURE PSI.	COVERAGE FT.	FLOW GPM	NOZZLE INCHES	RISER INCHES	SPECIAL FEATURES	
P-12	○	POP-UP LAWN - FULL	20	12 RAD.	3.2		1/2	2" POP-UP	
P-12	△	POP-UP LAWN - HALF	20	12 RAD.	2.5		1/2		
P-12	△	POP-UP LAWN - QUARTER	20	12 RAD.	1.2		1/2		
S-12	○	SHRUB SPRAY - FULL	20	10 RAD.	3.0		1/2		
S-12	△	SHRUB SPRAY - HALF	20	10 RAD.	2.5		1/2		
S-12	△	SHRUB SPRAY - QUARTER	20	10 RAD.	1.2		1/2		
ST-3	□	STRIP SPRAY	15	3'x12'	1.5		1/2		
I-35F	⊙	IMPACT - FULL	30	39 RAD.	5.5	3/16	3/4	BRASS/BRONZE CONSTRUCTION W/ BRASS NOZZLE W/ BREAK-UP PIN.	
I-35P	⊙	IMPACT - PART	30	36 RAD.	3.1	9/64	1/2		
R-40F	⊙	ROTARY POP-UP - FULL	45	46 RAD.	9.3	7/32	1	BRASS/BRONZE CONSTRUCTION, W/ BRASS NOZZLE, BRASS HOUSING.	
R-40P	⊙	ROTARY POP-UP - PART	40	40 RAD.	4.6	5/32	3/4		
	Ⓜ	CENTRAL (MASTER) AUTOMATIC CONTROLLER - 6 STATION (MIN)						PEDESTAL MOUNTED	
	Ⓢ	STATION (SATELLITE) AUTOMATIC CONTROLLER - 10 STATION (MIN)						PEDESTAL MOUNTED	
	Ⓜ	ELECTRIC REMOTE CONTROL VALVE						24V WATERPROOF SOLENOID, INSTALL IN VALVE BOX W/ COVER	

NOTES TO CONTRACTOR:

1. ALL WIRING UNDER ROADWAY TO BE INSTALLED IN CONDUITS.
2. PVC PIPE AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. NO ROCKS OR SHARP OBJECTS ONE INCH OR LARGER SHALL BE USED IN THE BACKFILLING OF TRENCHES. CCO#12 1ST SUPPLEMENT
4. FINAL LOCATIONS OF CONTROL VALVES SHALL BE DETERMINED BY THE ENGINEER.
5. CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS FOR PROPER COVERAGE.
6. CONCRETE REACTION BLOCK SHALL BE CLASS B.
7. PROVIDE TWO 30"± LONG HEAVY PLATED IRON KEY FOR CONTROL VALVE (INCIDENTAL TO VALVE COST).



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11/8/73	ADDED STRIP SPRAY TO LEGEND AND DETAIL.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER DETAILS
PACKAGE NO. 1

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-H-1(110):15

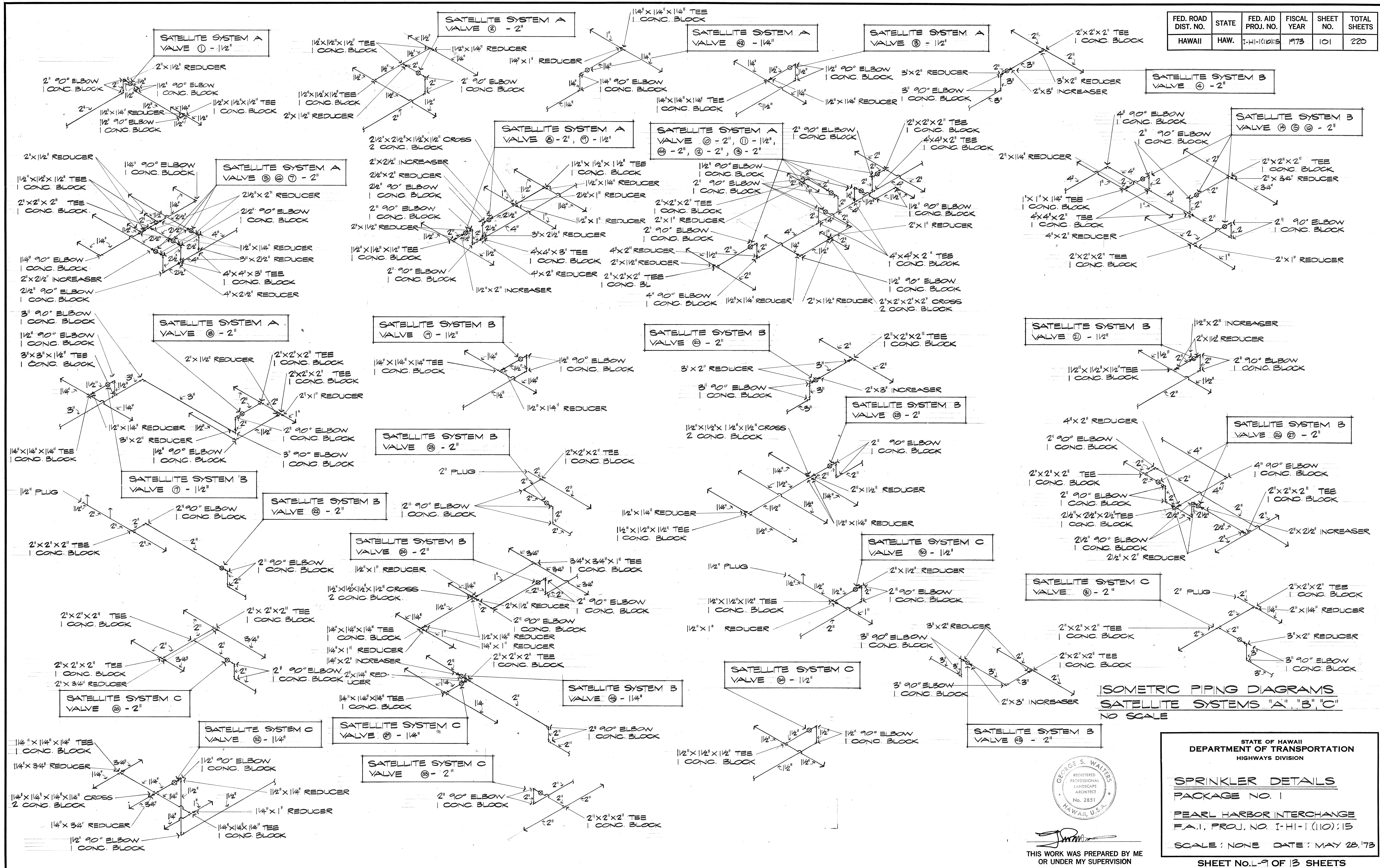
SCALE: NONE DATE: MAY 28, '73

SHEET NO. 18 OF 13 SHEETS

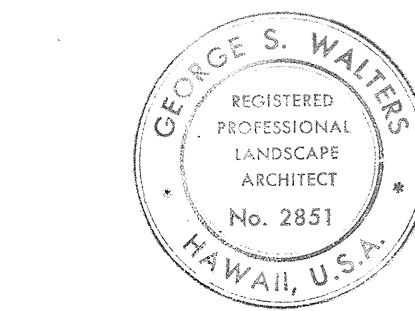
C.O. 100

DATE	11/8/73
SURVEY PLOTTED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
ORIGINAL PLAN	DATE
NOTE BOOK	DATE
NO.	DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(110)15	1973	101	220



DATE	
SURVEY PLOTTED BY	
PLAN	
DESIGNED BY	
NOTE BOOK	
CHECKED BY	
NO.	



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

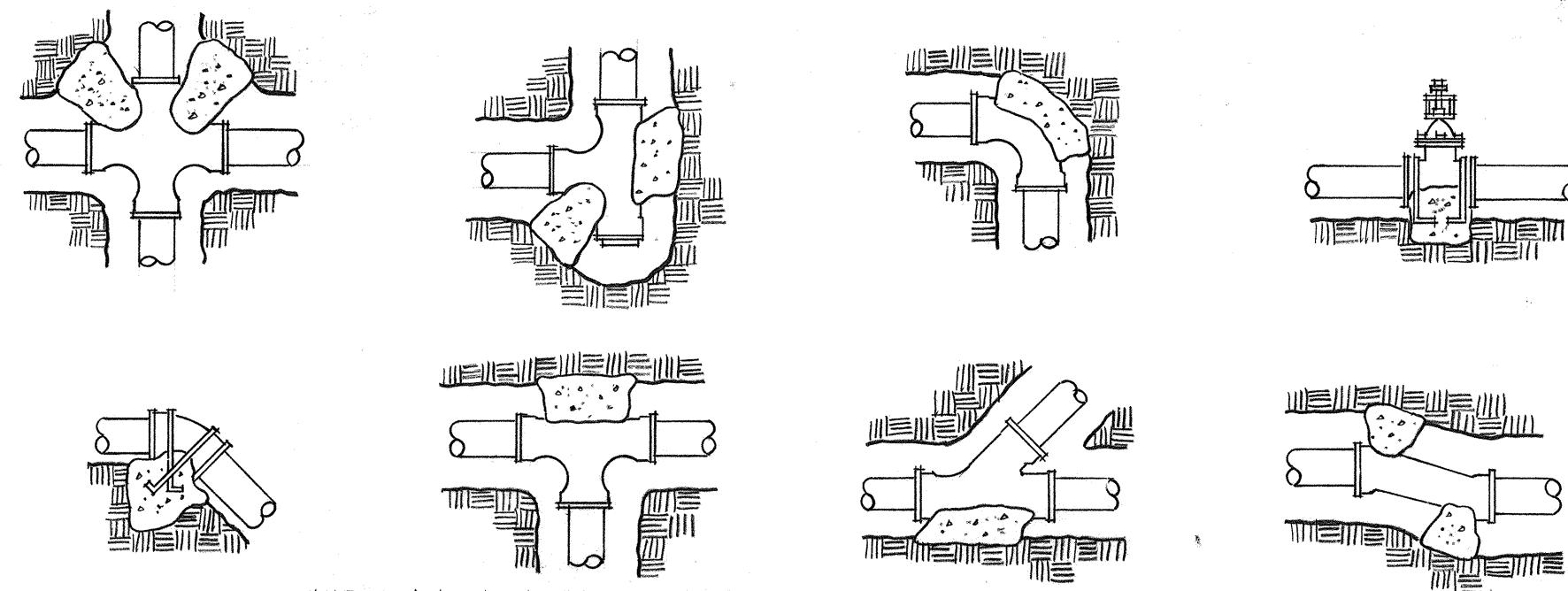
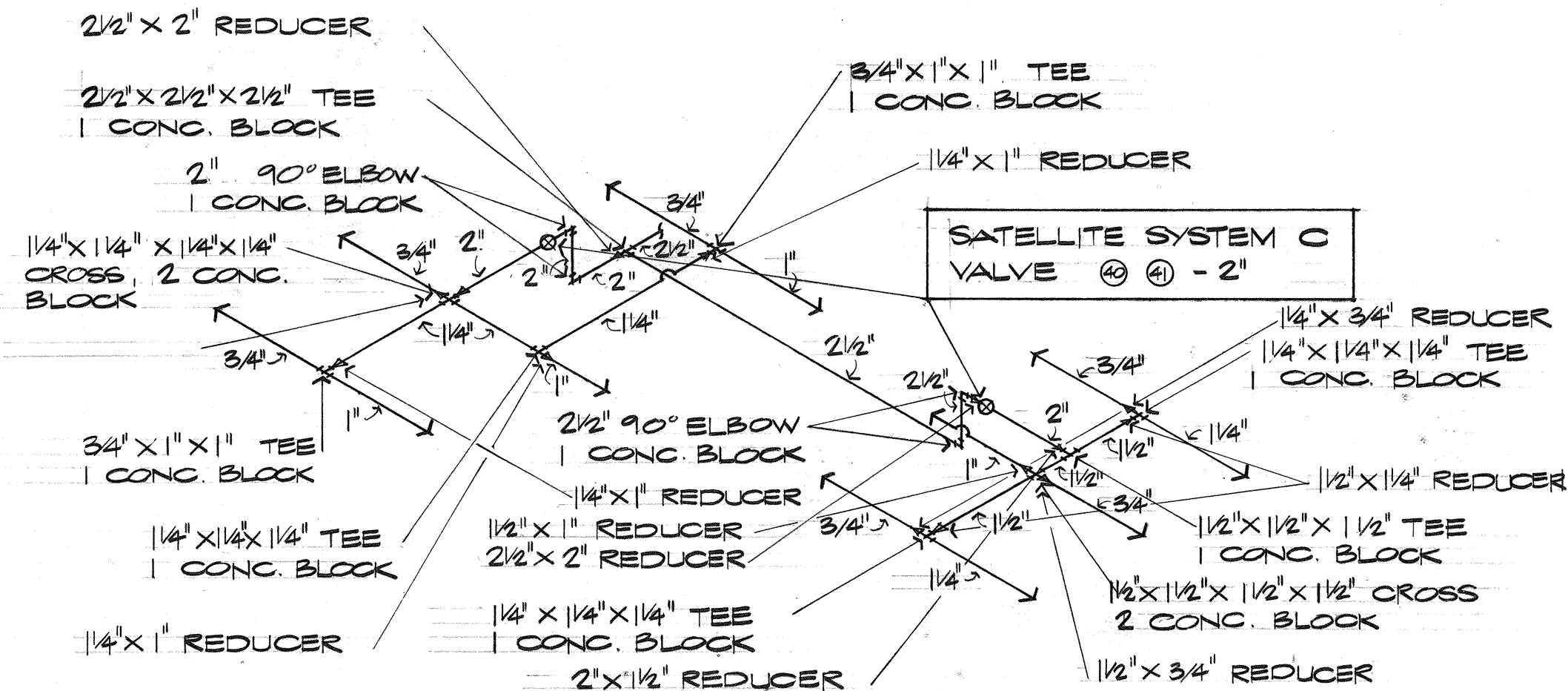
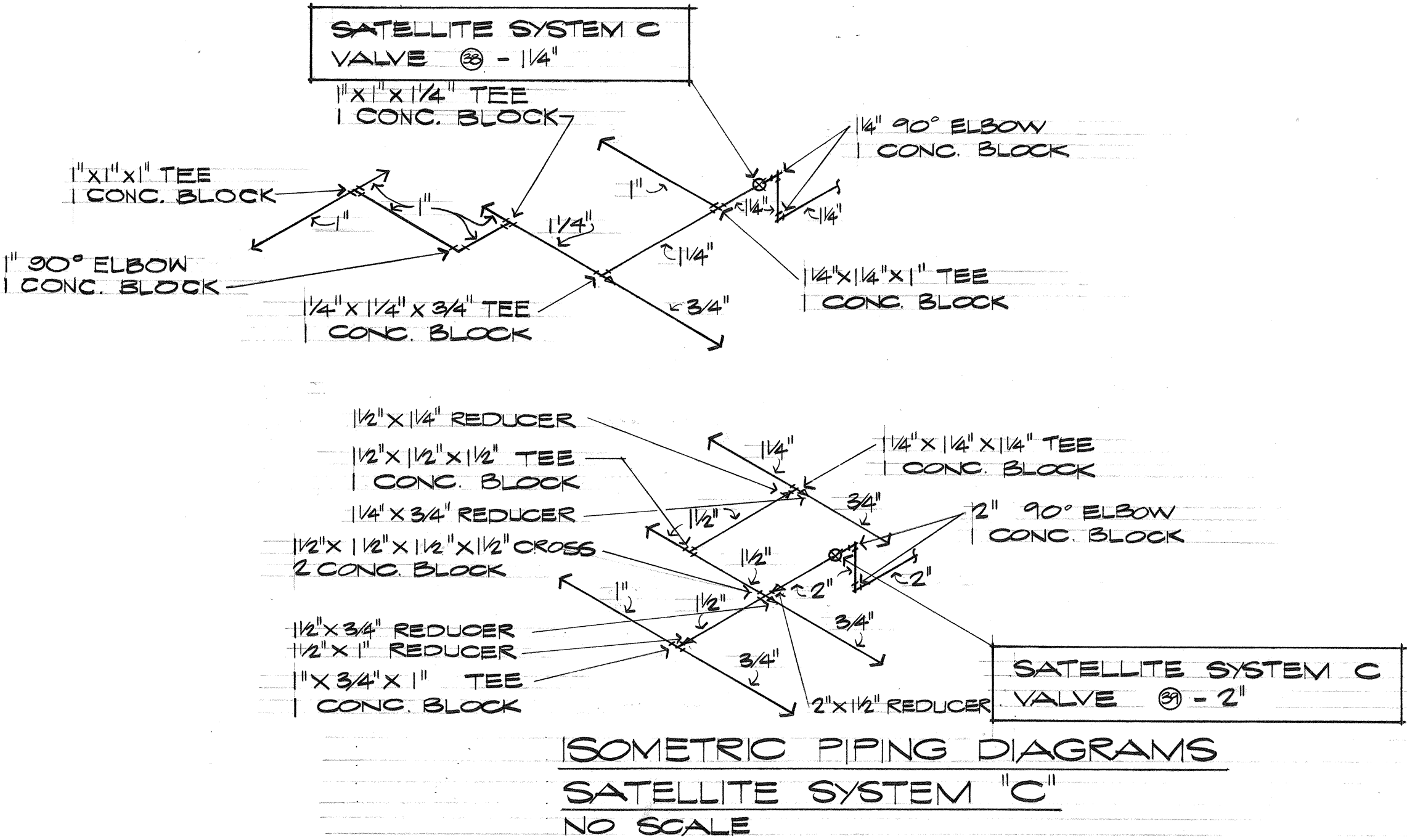
SPRINKLER DETAILS
PACKAGE NO. 1

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(110)15

SCALE: NONE DATE: MAY 28, 1973

SHEET NO. 9 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(110):15	1973	102	220

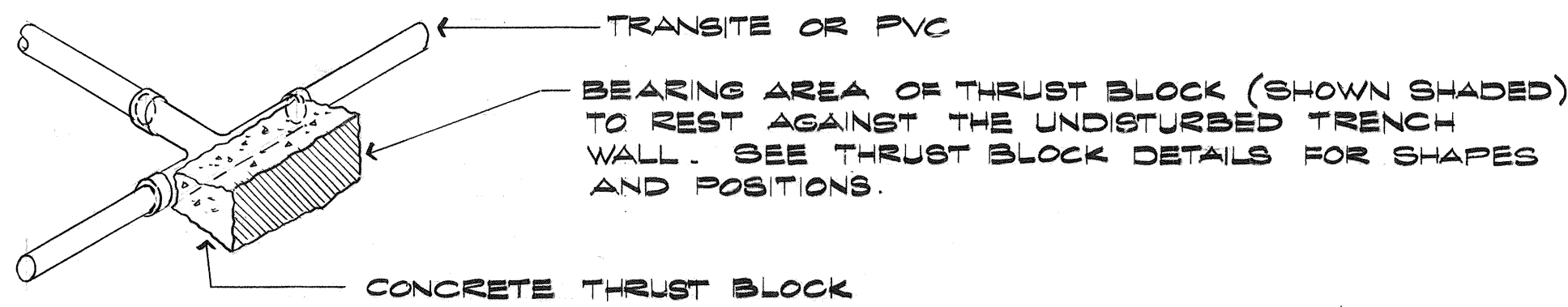


INSTALLATION NOTES

1. ALL MAIN LINE TO BE INSTALLED & TESTED ACCORDING TO MANUFACTURER'S INSTALLATION GUIDE. EACH SHALL BE A PART OF THE INSTALLATION SPECIFICATIONS.
2. ALL TRENCH DEPTH AND WIDTH SHALL BE AS SHOWN ON THE IRRIGATION PLANS.
3. THE CONTRACTOR SHALL ARRANGE FOR THE SERVICE OF THE MANUFACTURER'S QUALIFIED INSTRUCTOR

TYPICAL THRUST BLOCK DETAILS FOR TRANSITE OR PVC PIPE
NO SCALE

BEARING AREA REQUIRED FOR THRUST BLOCKS (SQ. FT.)					
PIPE SIZE	3"	2 1/2"	2"	1 1/2"	1 1/4"
TEES & CROSSES	1.00	0.50	0.50	0.50	0.50
90° BEND	1.25	0.75	0.50	0.50	0.50
45° BEND	0.75	0.50	0.50	0.50	0.50



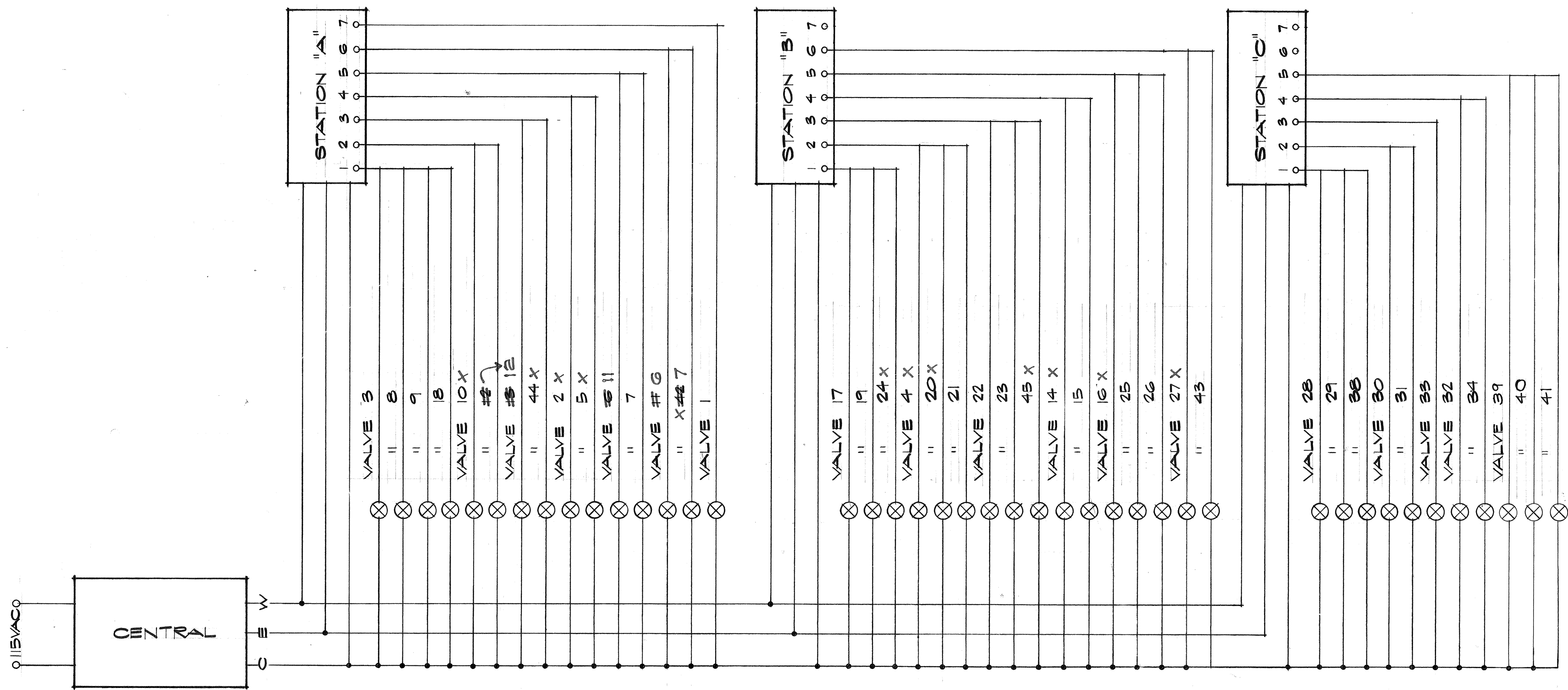
CCO#12 1ST SUPPLEMENT



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11/8/73	DELETED SYSTEMS 35, 36, AND 37. REVISED SYSTEM 38.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPRINKLER DETAILS PACKAGE NO. 1	
PEARL HARBOR INTERCHANGE F.A.I. PROJ. NO. I-H-1(110):15	
SCALE: NONE DATE: MAY 28, '73	
SHEET NO. 102 OF 13 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(110):15	1973	103	220



NOTE:
 1-ALL WIRES ARE #14 WIRE
 2-CONTRACTOR HAS THE OPTION OF SUBSTITUTING EQUAL ALTERNATE CONTROL SYSTEM W/ SHOP DRAWINGS, SPECS, AND DESCRIPTIVE LITERATURE FOR REVIEW AND APPROVAL BY THE ENGINEER.

SCHMATIC WIRE DIAGRAM

OPERATING SCHEDULE				
STATION NUMBER	CONTROLLER NO.	A	B	C
	DAY OF OPERATION	MTWThFS	MTWThFS	MTWThFS
	STARTING TIME	6:00 PM	6:00 PM	6:00 PM
1		42 MIN.	42 MIN.	42 MIN.
2		32	32	32
3		32	32	32
4		7	7	7
5		7	7	7
6		7	7	
7		4		
8				
9				
10				

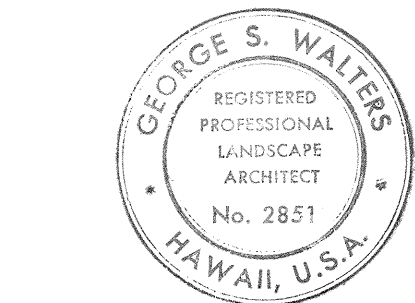
CCO#12 1ST SUPPLEMENT

11/8/73	DELETED SYSTEMS 35, 36, AND 37. REVISED SYSTEMS 39, 40, AND 41. DELETED SCHEDULE FOR STATION 6, CONTROLLER "C".
---------	---

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WIRING DIAGRAMS
PACKAGE NO. 1
PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-41-1 (110):15
SCALE: NONE DATE: MAY 28, 73



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ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	RECHECKED BY	
	QUANTITIES BY	
	CHECKED BY	

SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(10)15	1973	104	220

QUANTITIES

SYSTEM NO.	ITEM NO.	503	503		6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6		6/6	6/6	6/6	6/6	6/6	6/6	6/6		6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6		6/6		REMARKS				
	VALVE LOCATION	CONCRETE FOR SPRINKLER SYSTEM	CONCRETE OTHER THAN IN BRIDGES (CLASS B)		2 1/2-INCH RIGID STEEL PIPE, ACP OR PVC PIPE CONDUIT	1/2-INCH GALVANIZED STEEL PIPE OR POLYETHYLENE PIPE	1/2-INCH GALVANIZED STEEL PIPE OR #4 REINFORCING STEEL	1/2-INCH GALVANIZED STEEL PIPE	3/4-INCH GALVANIZED STEEL PIPE	1-INCH GALVANIZED STEEL PIPE	1-INCH COPPER PIPE	1 1/4-INCH COPPER PIPE	1 1/2-INCH COPPER PIPE	2-INCH COPPER PIPE	2 1/2-INCH COPPER PIPE	3-INCH COPPER PIPE	1/2-INCH GALVANIZED STEEL PIPE COPPER PIPE OR PVC PIPE	3/4-INCH GALVANIZED STEEL PIPE COPPER PIPE OR PVC PIPE	1-INCH GALVANIZED STEEL PIPE COPPER PIPE OR PVC PIPE	1 1/4-INCH GALVANIZED STEEL PIPE COPPER PIPE OR PVC PIPE	1 1/2-INCH GALVANIZED STEEL PIPE COPPER PIPE OR PVC PIPE		P-9 SPRINKLER HEAD	P-12 SPRINKLER HEAD	S-12 SPRINKLER HEAD	R(40) SPRINKLER HEAD	I(35) SPRINKLER HEAD	3-INCH SPRINKLER HEAD	ST-5 SPRINKLER HEAD		STATION AUTOMATIC CONTROLLER	1 1/2-INCH STATION MINIMUM CENTRAL AUTOMATIC CONTROLLER	1/4-INCH ELECTRIC CONTROL VALVE WITH TYPE A VALVE BOX	1/2-INCH ELECTRIC CONTROL VALVE WITH TYPE A VALVE BOX	3-INCH ELECTRIC CONTROL VALVE WITH TYPE A VALVE BOX	2 1/2-INCH ELECTRIC CONTROL VALVE WITH TYPE A VALVE BOX	3-INCH ELECTRIC CONTROL VALVE WITH TYPE A VALVE BOX	DIRECT BURIAL CABLES		FURNISHING AND INSTALLING 12-INCH CIP SLEEVE (CLASS 250)						
		UNIT USED	CUYD.	CUYD.		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.		EACH	EACH	EACH	EACH	EACH	EACH	EACH		EACH	EACH	EACH	EACH	EACH	LIN. FT.		LIN. FT.							
1	RAMP MW STA. 17+20		.11			13									24	42	140	91	186	40								23																		
2	RAMP MW STA. 14+82		.09			27							29			60	120	240	232	125	23				53																					
3	RAMP MW STA. 10+54		.06					17									126	42	252	32							11																			
4	RAMP MW STA. 8+20		.06						18						29			88	88	88	220			32																						
5	RAMP MW STA. 9+60		.04			26											108	75	30		17	123		19				17																		
6	RAMP MW STA. 9+60		.13			29											60	75	87	65	10	15		7																						
7	RAMP MW STA. 9+60		.04			26											67	75	67		18	222					17																			
8	RAMP MW STA. 11+70		.09					12	8								160	160	48	97			8						13																	
9	RAMP MW STA. 11+70		.06					12									40	88	108	80	7							8																		
10	RAMP MW STA. 14+13		.06						12									47	94	47	163							8																		
11	RAMP MW STA. 14+13		.07			29										51	94	37	56	231					7																					
12	RAMP MW STA. 14+13		.11								9							12	84	71	73				7																					
13	MAUKA FR. RD. STA. 26+95		.06						12										94	99	164						8																			
14	MAUKA FR. RD. STA. 20+20		.07			11											60	30			20					86				7														40		
15	MAUKA FR. RD. STA. 20+37		.06			23											66	15	45	45	74					17				15																
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17	MAUKA FR. RD. STA. 23+22		.06					18								59		80		360	24			10																						
18	MAUKA FR. RD. STA. 24+30		.11					17	8								26	155	120	144	165						16																			
19	RAMP MW STA. 5+94		.06					17							29			126	42	252	32							11																		
20	RAMP MW STA. 3+00		.06						18																																					
21	RAMP MW STA. 1+82		.06						12					55																																
22	ROUTE H-1 STA. 83+92		.07						12																																					

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	"
	TRACED BY	"
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY	"
No.	CHECKED BY	"

11/8/73

DATE _____

REVISION



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SPRINKLER SUMMARY

PACKAGE NO. 1

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-HI-1 (110):15

SCALE: NONE DATE: MAY 28, '73

SHEET No. L-2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-I-1(110)15	1973	105	220

[illegible]

ORIGINAL	SURVEY PLOTTED BY _____	DATE _____
PLAN	DRAWN BY _____	" _____
	TRACED BY _____	" _____
NOTE BOOK	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____

REVISION



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SUMMARY
PACKAGE NO. 1

PEARL HARBOR INTERCHANGE
F.A.I. PROJ. NO. I-HI-1 (110): 15

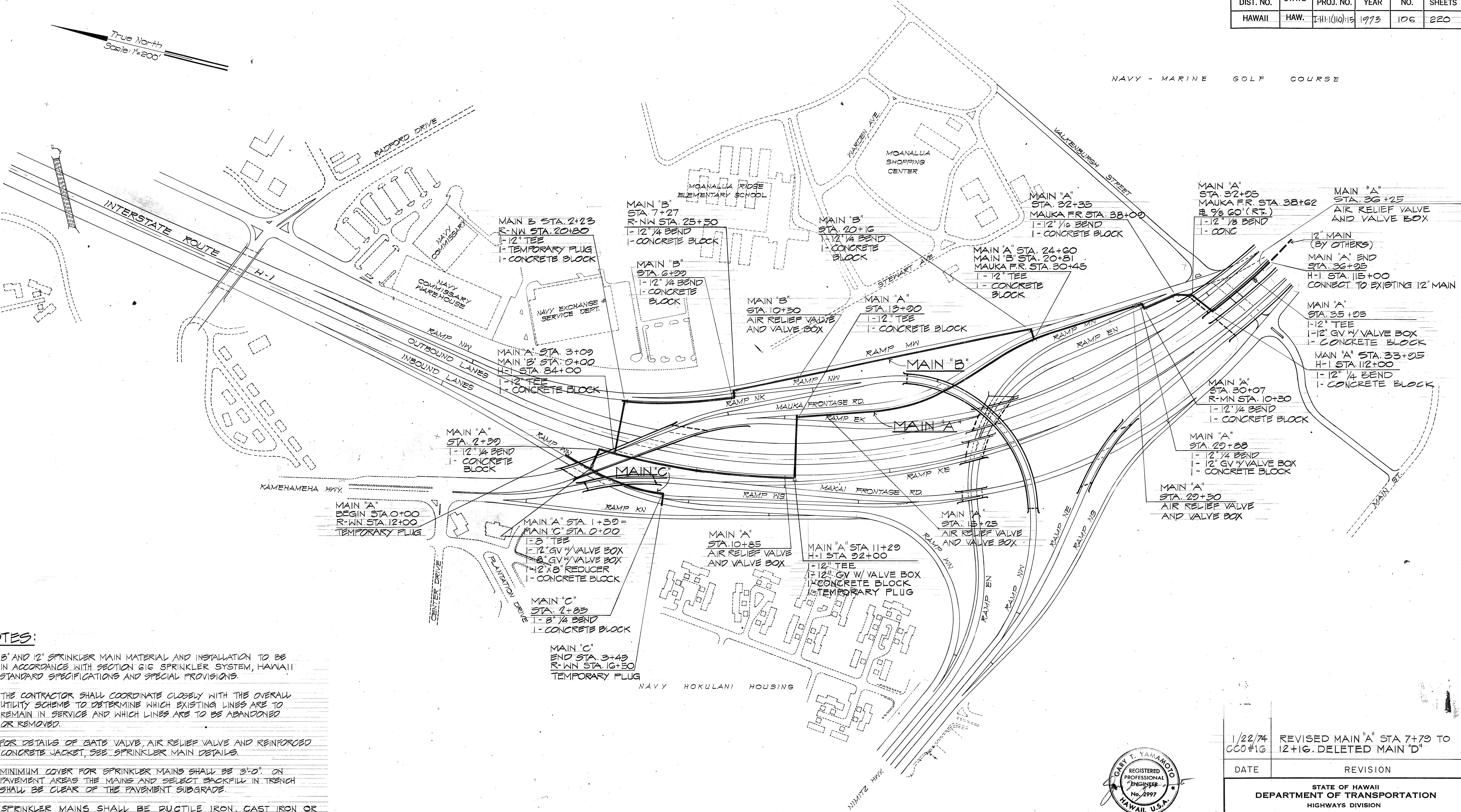
SCALE: NONE DATE: MAY 28, '73

SHEET No. L-3 OF 3 SHEETS

C.O. 105

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-H-1(110)-15	1973	106	220

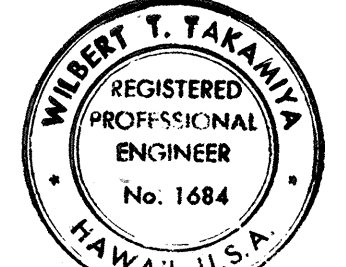
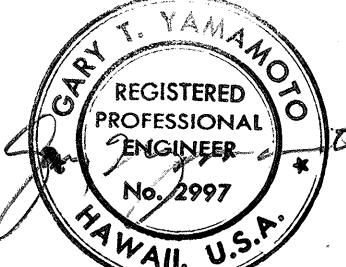
NAVY - MARINE GOLF COURSE



NOTES:

- 8" AND 12" SPRINKLER MAIN MATERIAL AND INSTALLATION TO BE IN ACCORDANCE WITH SECTION 616 SPRINKLER SYSTEM, HAWAII STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE OVERALL UTILITY SCHEME TO DETERMINE WHICH EXISTING LINES ARE TO REMAIN IN SERVICE AND WHICH LINES ARE TO BE ABANDONED OR REMOVED.
- FOR DETAILS OF GATE VALVE, AIR RELIEF VALVE AND REINFORCED CONCRETE JACKET, SEE SPRINKLER MAIN DETAILS.
- MINIMUM COVER FOR SPRINKLER MAINS SHALL BE 3'-0" ON PAVEMENT AREAS THE MAINS AND SELECT BACKFILL IN TRENCH SHALL BE CLEAR OF THE PAVEMENT SUBGRADE.
- SPRINKLER MAINS SHALL BE DUCTILE IRON, CAST IRON OR ASBESTOS CEMENT, CLASS 150, UNLESS OTHERWISE NOTED.
- SPRINKLER LATERALS SHALL BE CONNECTED TO WATER MAINS IN THE FOLLOWING MANNER:
 - FOR LATERAL SIZES LESS THAN 4" CONNECT WITH DOUBLE HUB FITTINGS WITH BOSS TAPPED FOR AN APPROPRIATE CORPORATION STOP. CORPORATION STOP MAYBE SCREWED INTO THREADS TAPPED, DIRECTLY INTO THE MAIN ON APPROVAL FROM THE ENGINEER.
 - CONNECTIONS FOR LATERAL SIZE 4" AND LARGER SHALL BE TEE CONNECTIONS WITH REDUCERS.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



Wilbert T. Takamika
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1/22/74 REVISED MAIN "A" STA 7+79 TO
000#16 12+16. DELETED MAIN "D"

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

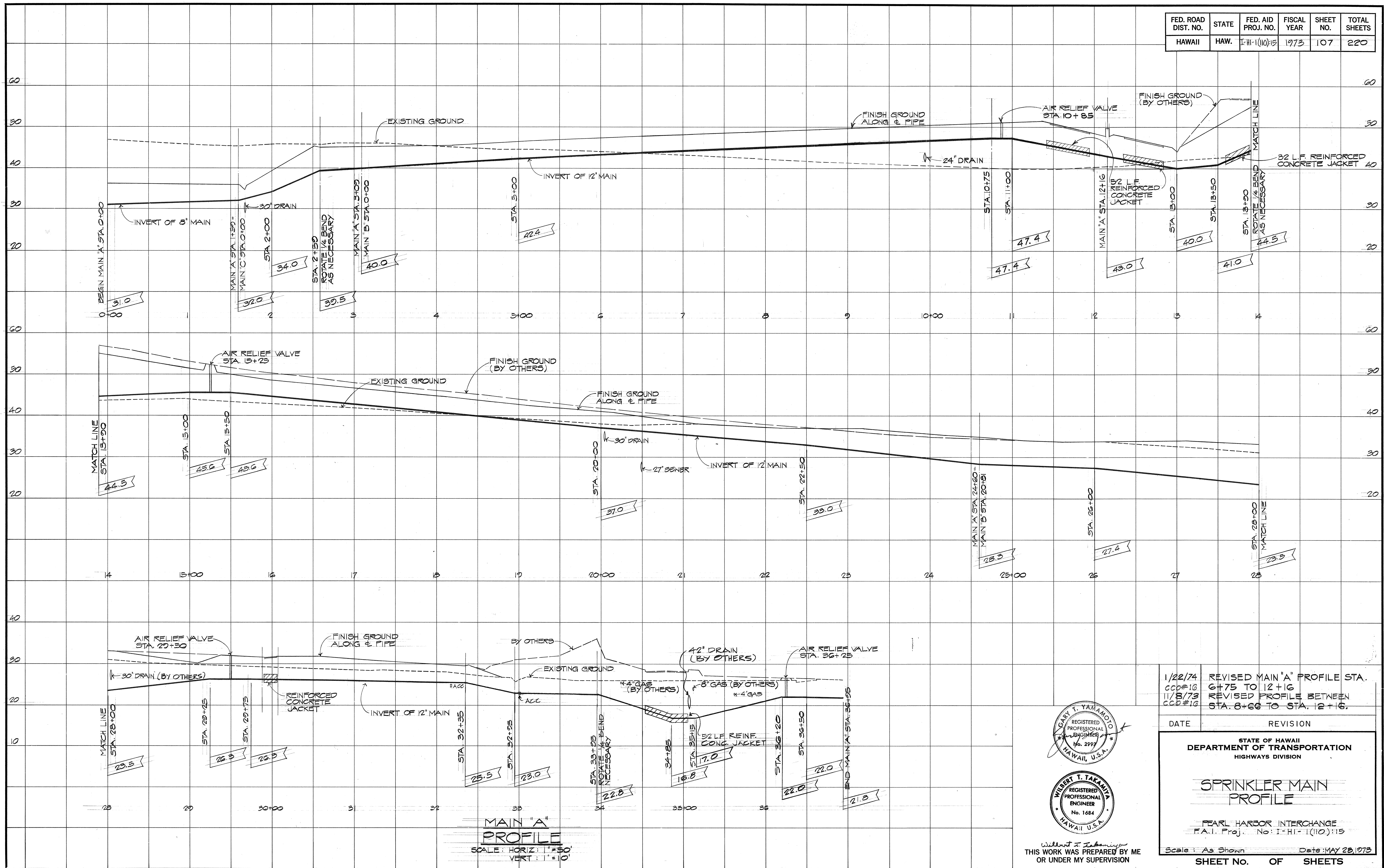
SPRINKLER MAIN
GENERAL PLAN

PEARL HARBOR INTERCHANGE
F.A.I. Proj. No. 1-H-1(110)-15

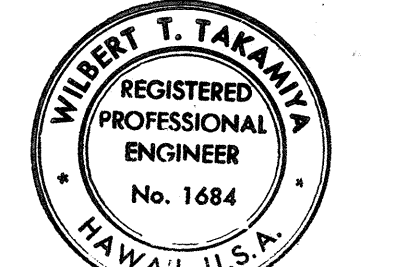
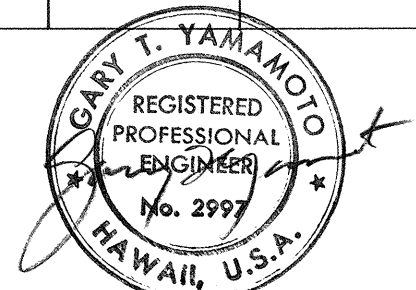
Scale: As Shown Date: MAY 28, 1973

SHEET No. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(110)15	1973	107	220



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

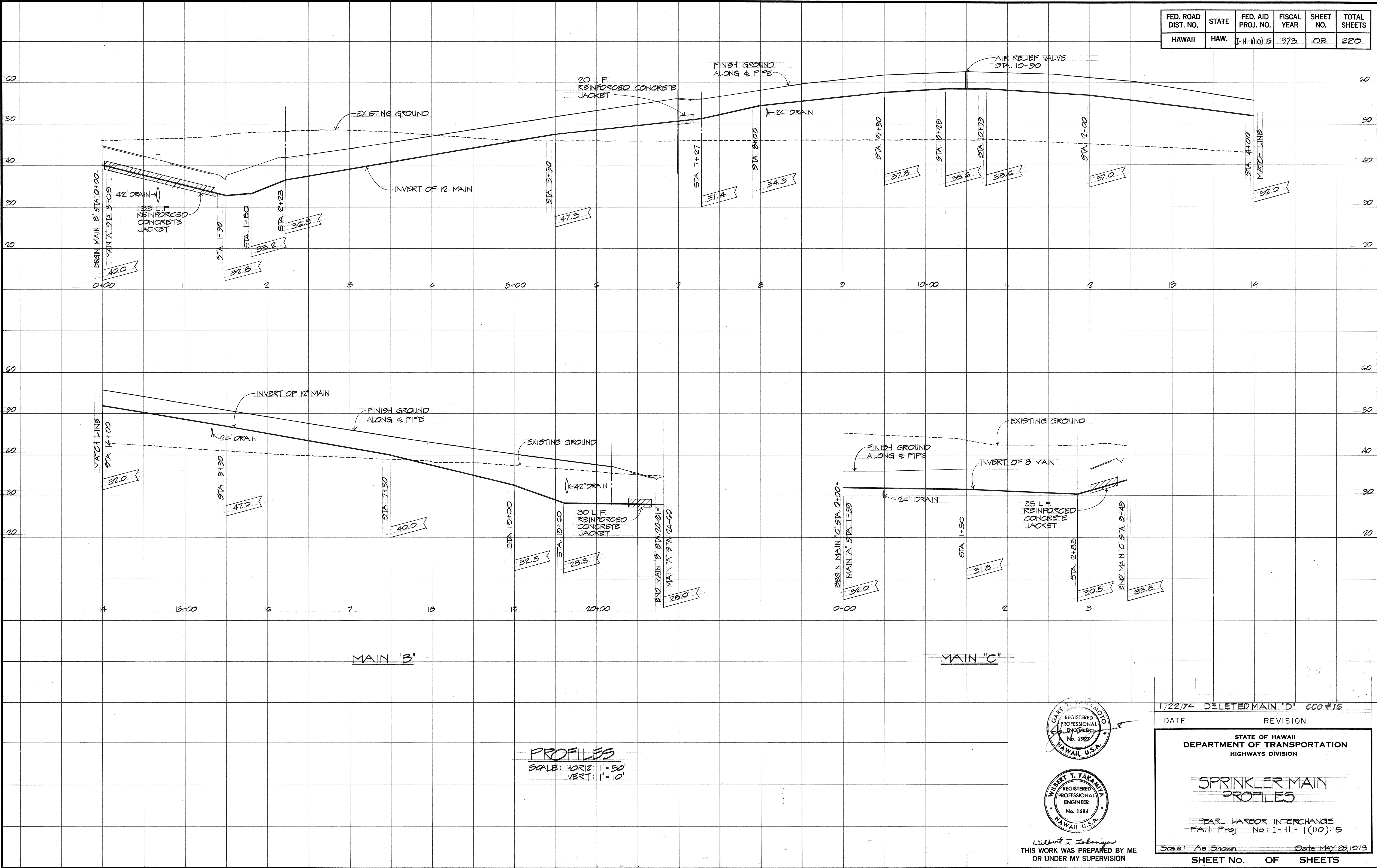


Wilbert T. Takamiya
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 OR UNDER MY SUPERVISION

1/22/74	REVISED MAIN "A" PROFILE STA. 6+75 TO 12+16
11/8/73	REVISED PROFILE BETWEEN STA. 8+66 TO STA. 12+16.
CCO#16	
CCO#19	

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPRINKLER MAIN PROFILE	
PEARL HARBOR INTERCHANGE F.A.I. Proj. No. I-H-1(110)15	
Scale: As Shown	Date: MAY 28, 1973
SHEET NO.	OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-110-15	1973	108	220

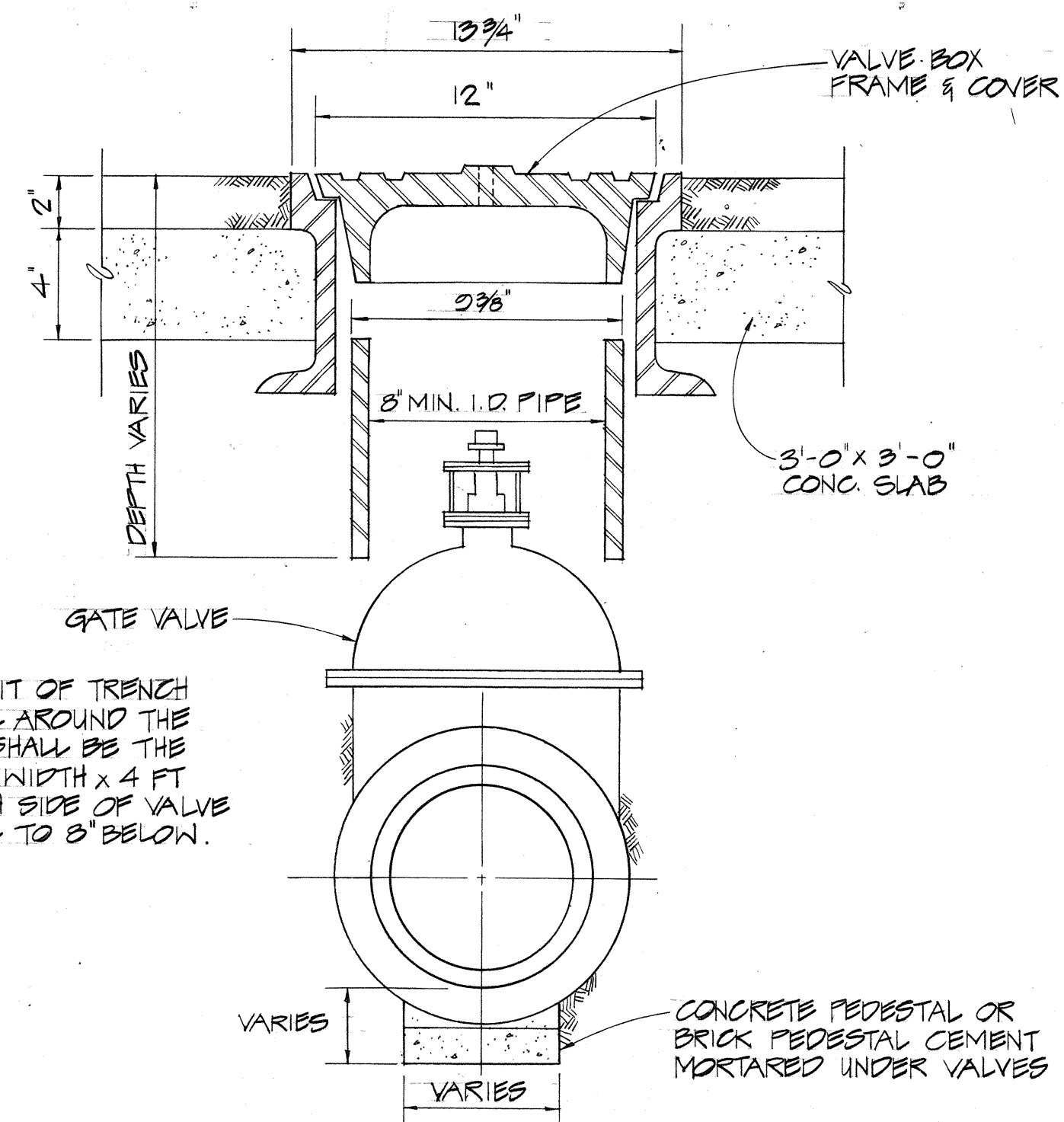


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

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1/22/74	DELETED MAIN "D" CCO #16
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SPRINKLER MAIN PROFILES PEARL HARBOR INTERCHANGE F.A.I. Proj. No: I-HI-110-15	
Scale: As Shown	Date: MAY 28, 1973
SHEET NO.	OF SHEETS

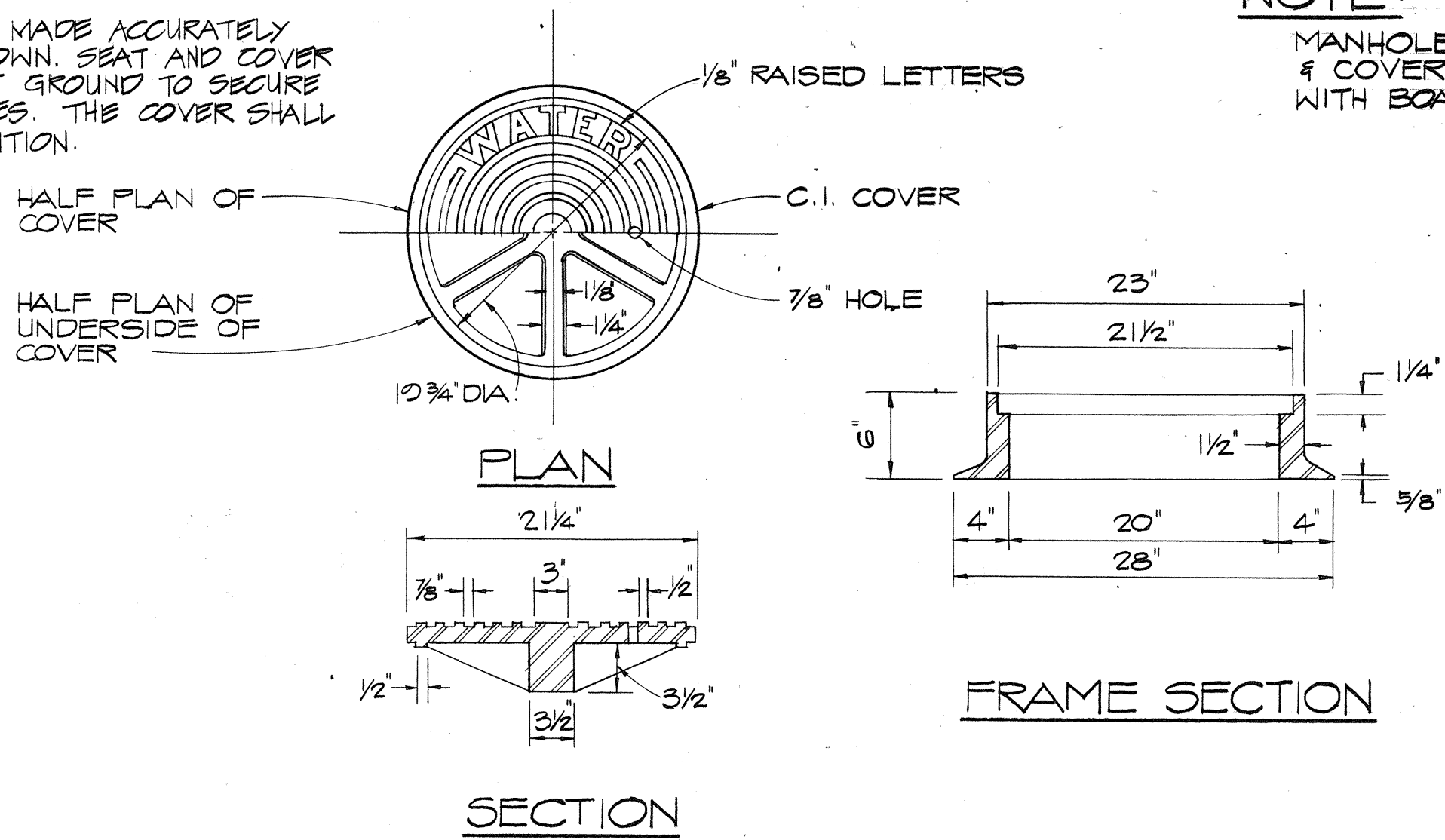
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(110)15	1973	109	220



THE LIMIT OF TRENCH BACKFILL AROUND THE VALVE SHALL BE THE TRENCH WIDTH x 4 FT ON EACH SIDE OF VALVE AND FILL TO 8" BELOW.

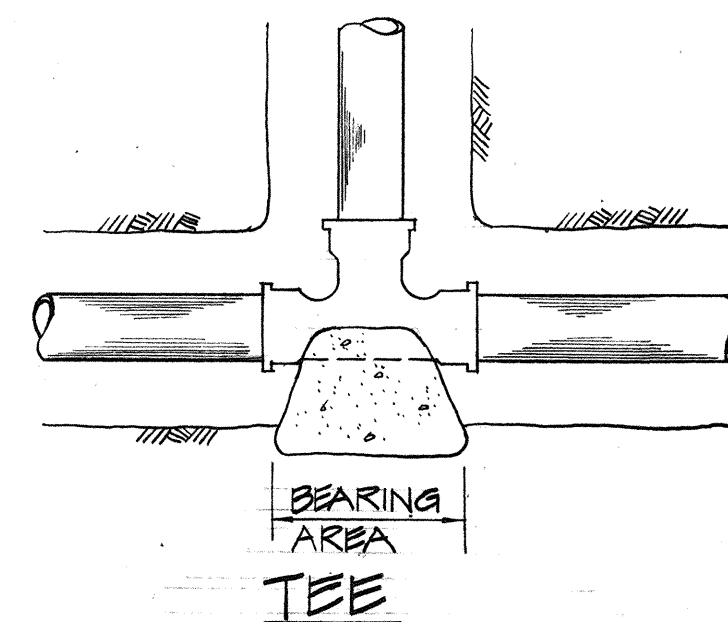
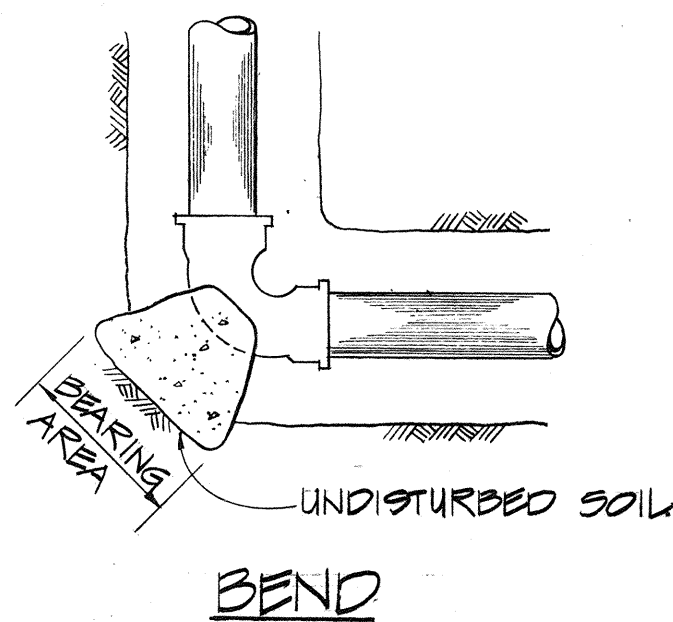
GATE VALVE AND VALVE BOX
NOT TO SCALE

NOTE:
ALL CASTINGS SHALL BE MADE ACCURATELY TO THE DIMENSIONS SHOWN. SEAT AND COVER SHALL BE MACHINED, NOT GROUND TO SECURE FLAT AND TRUE SURFACES. THE COVER SHALL NOT RATTLE IN ANY POSITION.

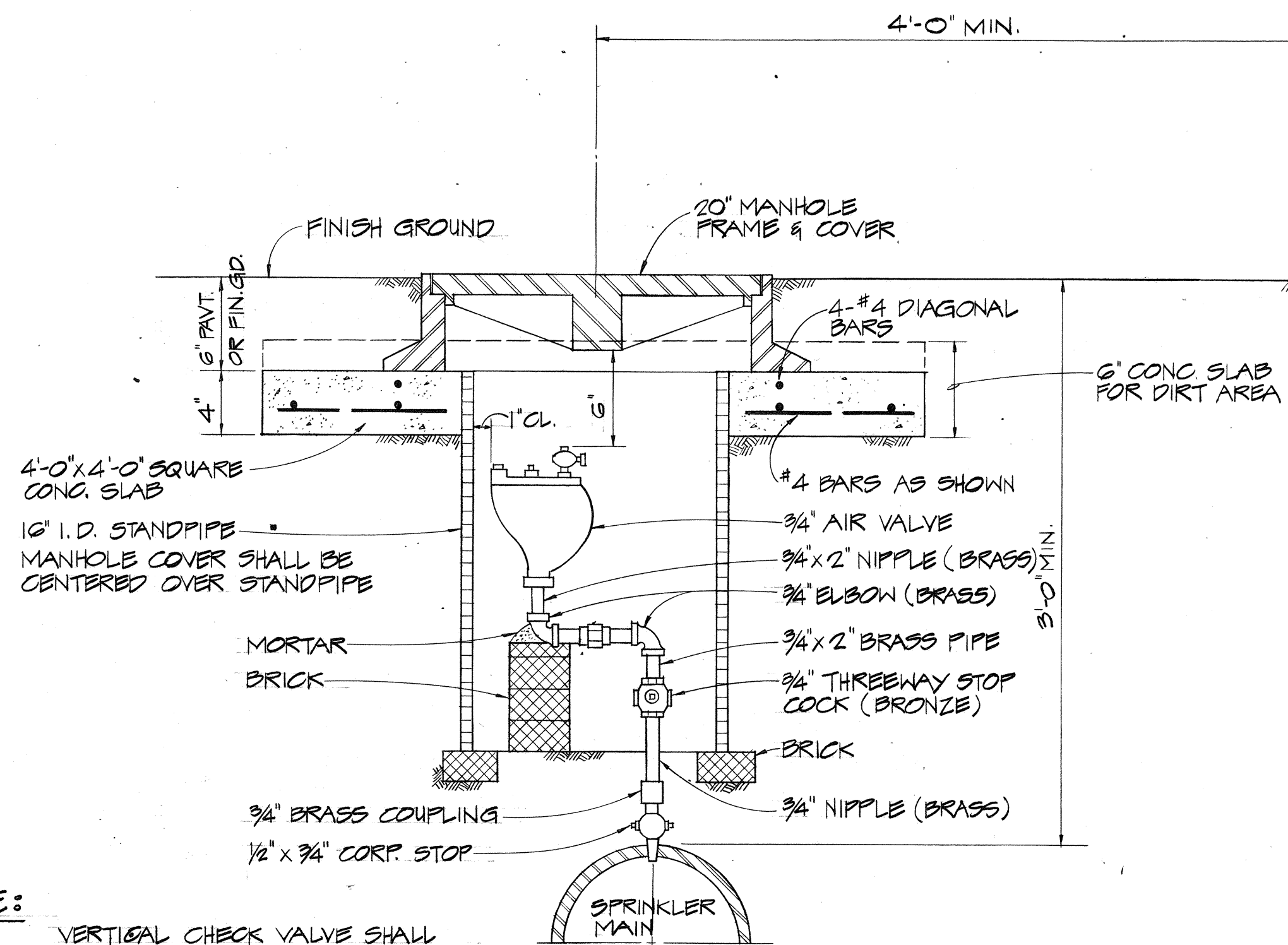


TYPICAL MANHOLE FRAME & COVER
NOT TO SCALE

NOTE:
BEARING AREA
4 SQ. FT. MINIMUM

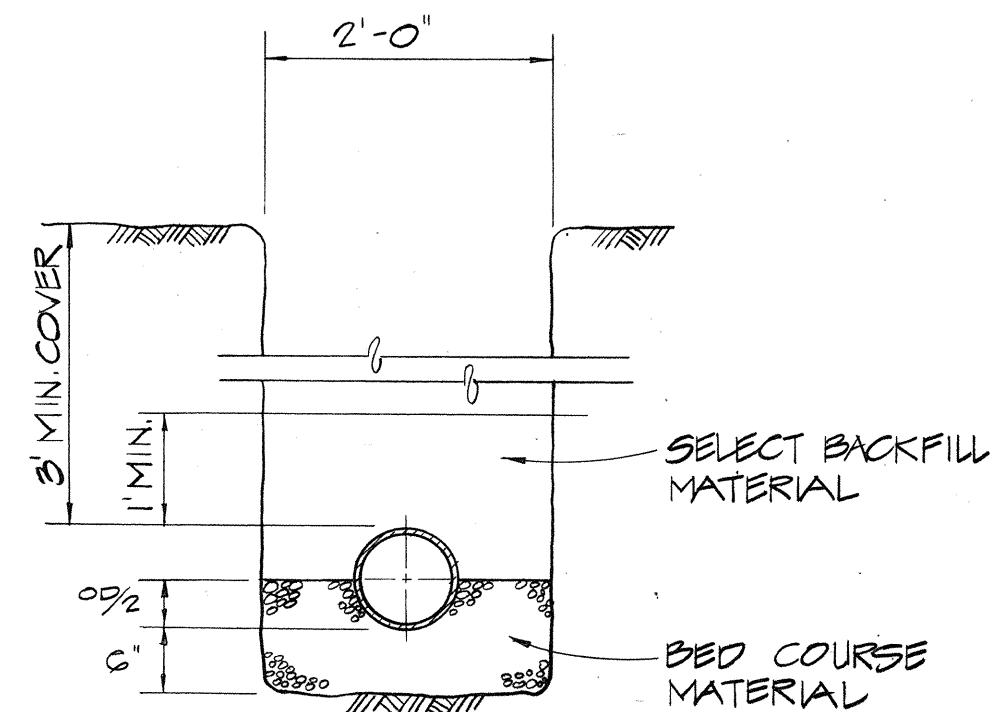


CONCRETE BLOCK DETAILS
(FOR HORIZONTAL BENDS)
NOT TO SCALE

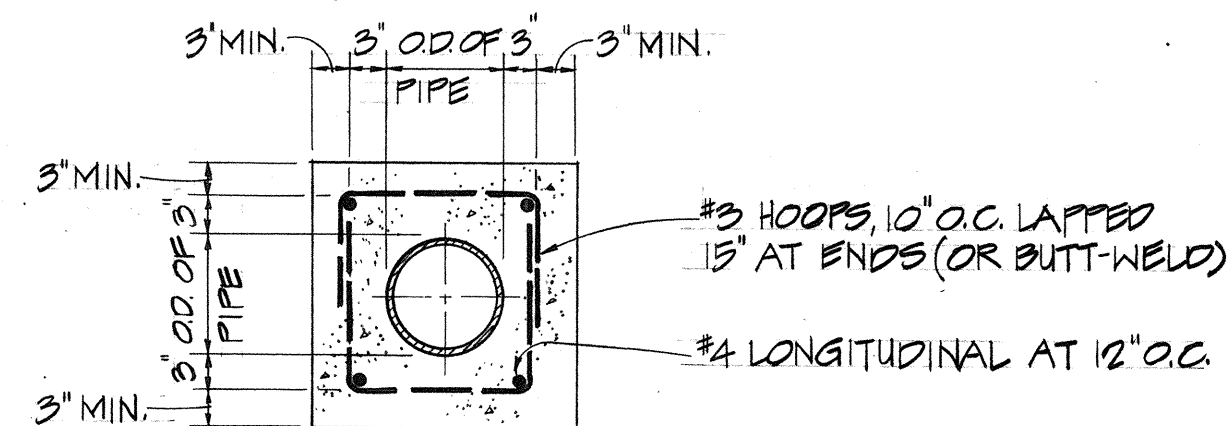


NOTE:
VERTICAL CHECK VALVE SHALL BE USED IN LIEU OF COUPLING WHEN THREEWAY STOP COCK IS IMMERSED IN WATER.

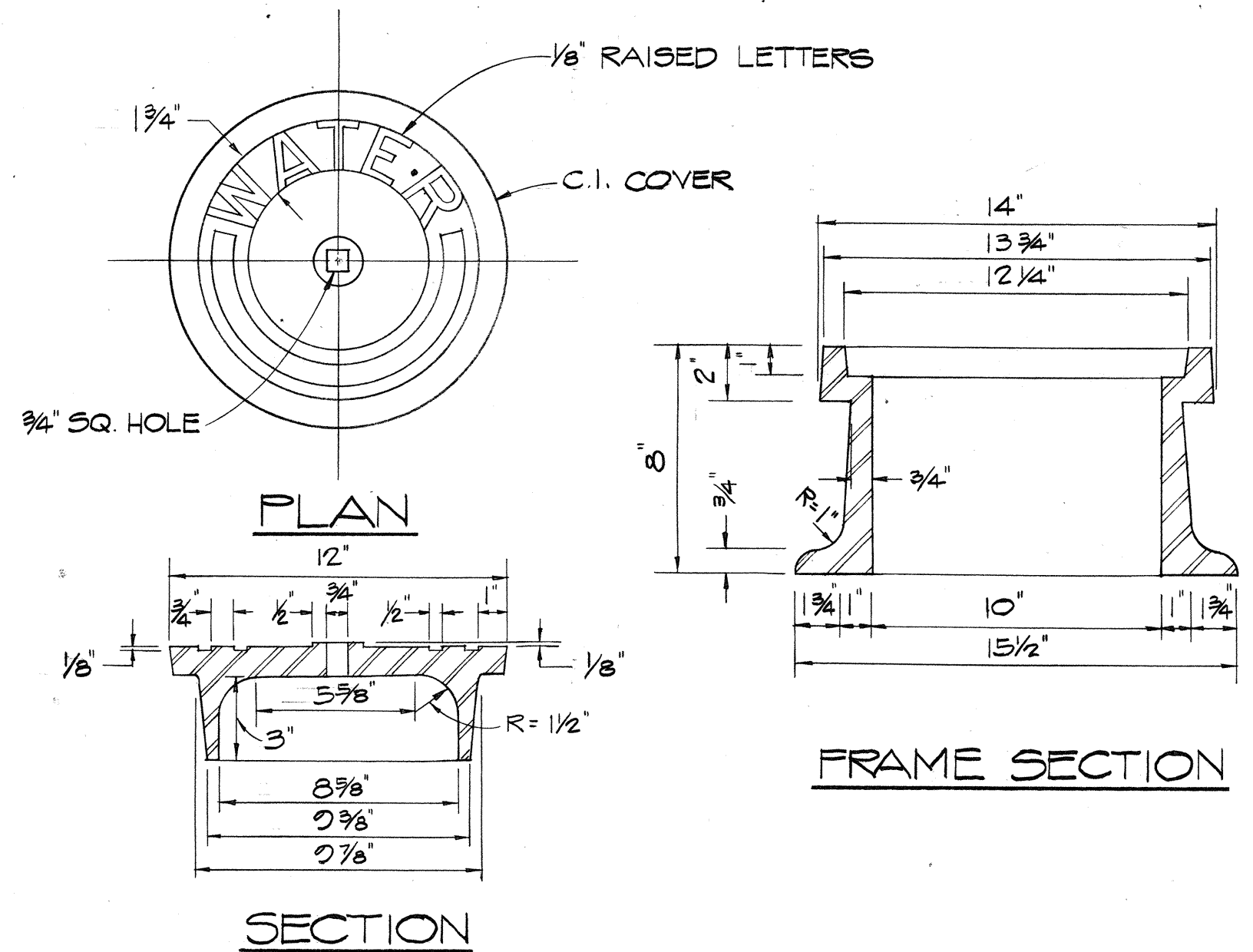
AIR RELIEF VALVE AND VALVE BOX
NOT TO SCALE



TRENCH DETAIL
NOT TO SCALE

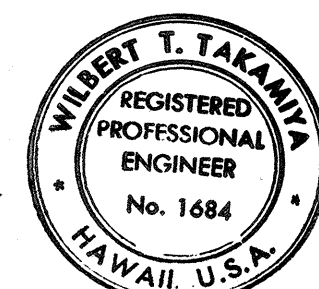
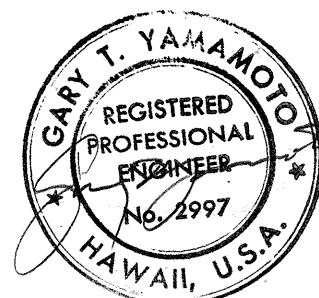


REINFORCED CONCRETE JACKET
NOT TO SCALE



TYPICAL VALVE BOX FRAME & COVER
NOT TO SCALE

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER MAIN DETAILS
PEARL HARBOR INTERCHANGE
P.A.I. Proj. No. I-HI-1(110)15

Scale: As Shown
SHEET No. 109 OF 220 SHEETS

Date: MAY 28, 1973