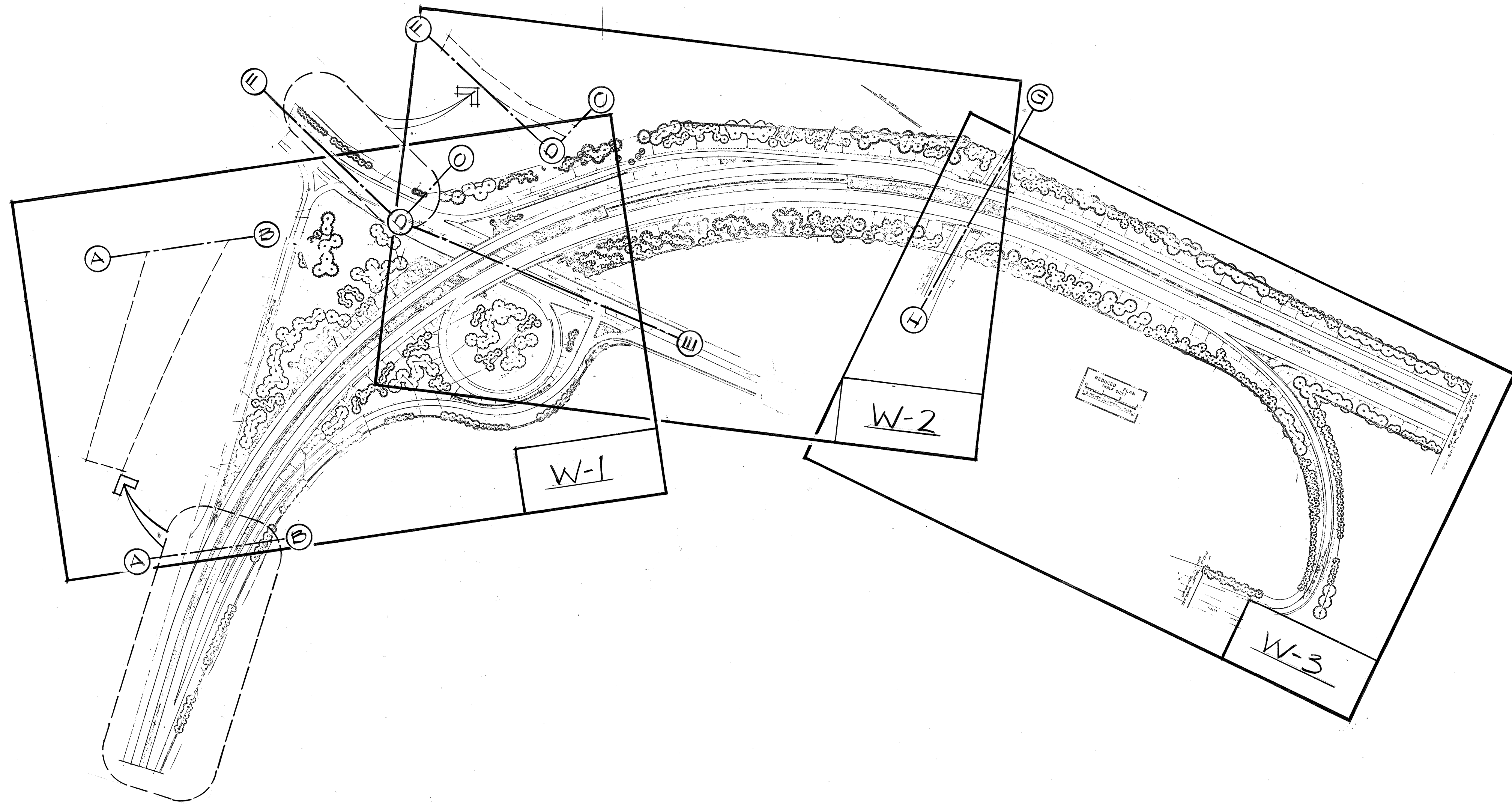
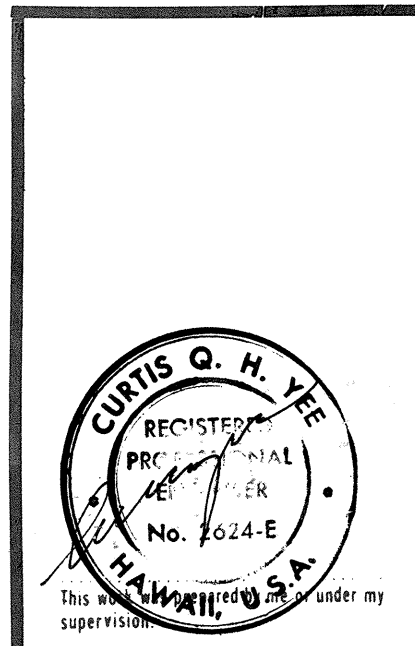


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	10	31



ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

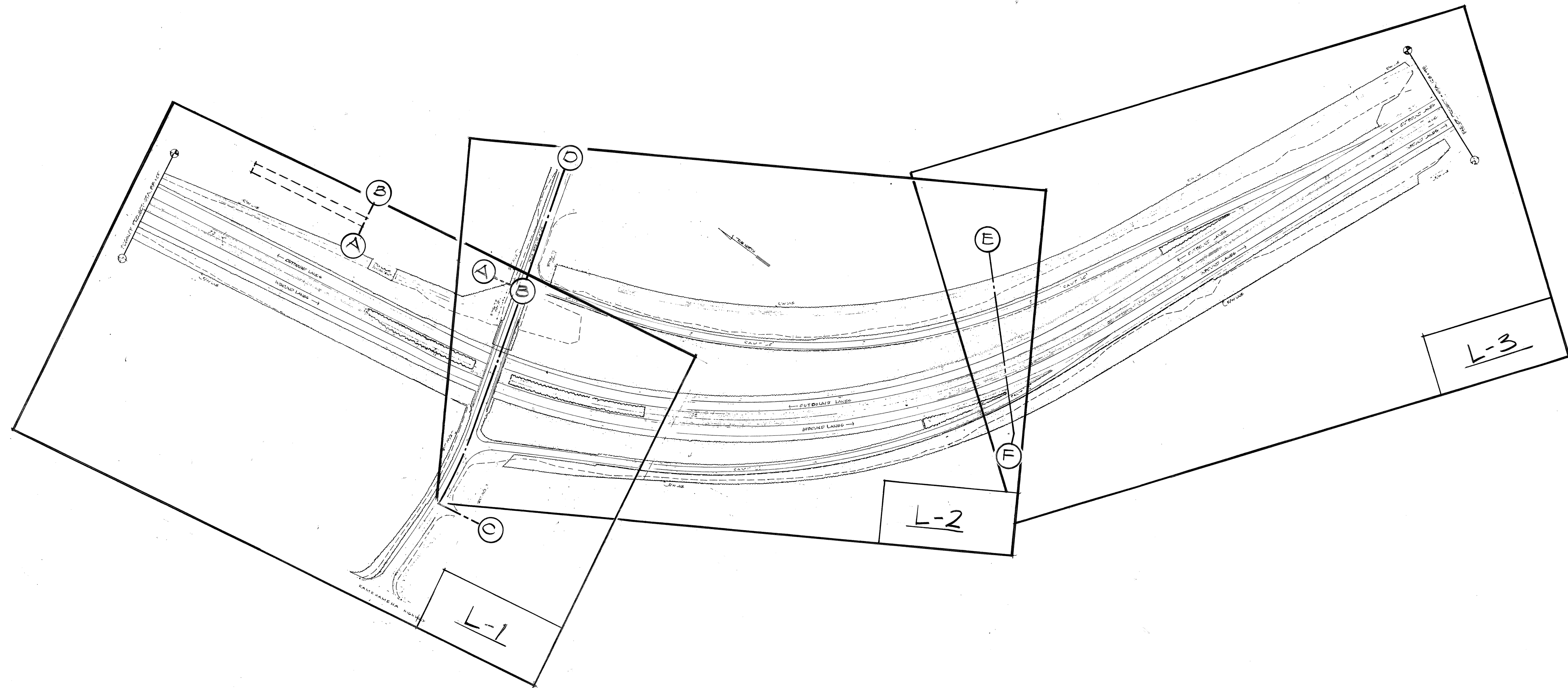
PROJECT NO. I-H2-1(17):6

WAIHAWA INTERCHANGE

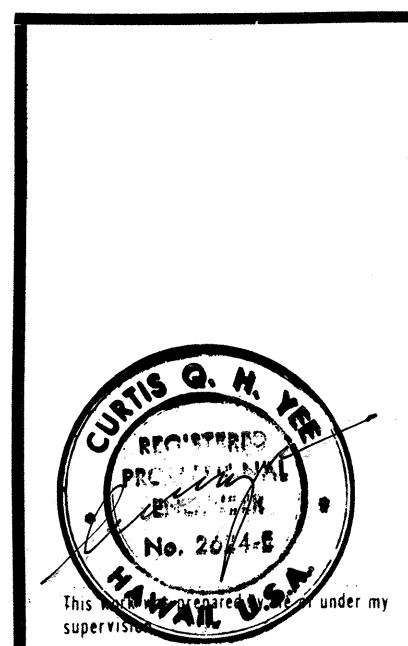
KEY SHEET

SHEET No. 10 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)-6	1976	11	31



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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROJECT NO. I-H2-1(17)-6
LEILEHUA INTERCHANGE
KEY SHEET
SHEET No. 2 OF 22 SHEETS

DATE	REVISION
11/18/76	Revised General Note No. 21 and Sprinkler Designation and Performance Table, per Addendum No. 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	13	31

GENERAL NOTES

- EARTH SLOPES AND OTHER AREAS EXPOSED BY GRADING SHALL BE PLANTED WITH GRASS OR SUITABLE GROUND COVER AS SOON AS PRACTICAL FOLLOWING COMPLETION OF GRADING OPERATIONS IN ACCORDANCE WITH LAND-SCAPING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMATION TO CHAPTER 37 & 37A OF THE PUBLIC HEALTH REGULATIONS, DEPARTMENT OF HEALTH, STATE OF HAWAII.
- ALL EXCAVATION IN AREAS PREVIOUSLY PLANTED WITH VEGETATION SHALL BE RETURNED TO ITS ORIGINAL STATE BY THE CONTRACTOR, EITHER BY REPLANTING OR SODDING. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE RESTORATION AND ANY ASSOCIATED DAMAGE, UNTIL SUCH TIME THAT THE PLANTING HAS RETURNED TO ITS ORIGINAL STATE, AS DETERMINED BY THE STATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES, INJURIES, DEATHS, ETC., RESULTING FROM ACCIDENTS TO PROPERTY, PERSONNEL, EXISTING UTILITIES, FACILITIES, AND APPURTENANCES. HE SHALL HOLD HARMLESS THE STATE OF HAWAII, THE UNITED STATES GOVERNMENT, THE ENGINEER, AND ALL THEIR EMPLOYEES FROM SUITS, DAMAGES RESULTING THEREFROM.
- UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY, AND NO GUARANTEES ARE MADE AS TO THE ACCURACY OF THEIR LOCATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE COMPANIES OR AGENCIES OF THE GOVERNMENT TO VERIFY THE LOCATIONS OF THE UTILITIES IN THE FIELD. THE CONTRACTOR SHALL MAINTAIN COORDINATION WITH THE UTILITY COMPANIES AND/OR AGENCIES THROUGHOUT THE DURATION OF THE PROJECT TO SEE THAT NONE OF THE UTILITIES PASSING THROUGH OR ADJACENT TO THE PROJECT SITE ARE INTERFERED WITH OR DAMAGED IN ANY WAY.
- THE CONTRACTOR SHALL VERIFY ALL LINES, GRADES, AND DIMENSIONS ON THE JOB AND TO COORDINATE ALL WORK WITH TRADES AND UTILITIES.
- THE CONTRACTOR SHALL SECURE PERMISSION AND CLEARANCES FROM ALL GOVERNMENTAL AND/OR PRIVATE AGENCIES OR COMPANIES CONCERNED WITH THE WORK. HE SHALL SECURE AND PAY FOR ALL FEES AND PERMITS REQUIRED FOR THE CONSTRUCTION ON THIS PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AFFORD COMPLETE AND ADEQUATE PROTECTION AND SAFETY FOR HIS WORKING PERSONNEL AND THE PUBLIC AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL DEWATER ALL TRENCHES AS REQUIRED FOR INSTALLATION AND TESTING OF PIPELINES AND FACILITIES.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.
- IN THE DIRECTION OF FLOW ALONG ANY LINE, DIAMETRIC PIPE SIZE SHALL REMAIN THE SAME OR SHALL DECREASE, AS SHOWN ON THE PLANS. UNLESS SPECIFICALLY CALLED FOR, IN NO CASE SHALL A PIPE OF ONE DIAMETER PRECEDE A PIPE OF A LARGER DIAMETER.
- PRESSURE REDUCING VALVES SHALL BE SET AT PRESSURES INDICATED ON THE PLANS. ADJUSTMENTS TO THE INDICATED PRESSURES SHALL BE DONE UNDER DYNAMIC CONDITIONS, AS SHALL THE SETTING OF THE INDICATED PRESSURE BE DONE.
- SCHEDULE 40 PVC PIPE WITH SOLVENT WELD CONNECTIONS SHALL BE USED UNLESS OTHERWISE CALLED FOR. SCHEDULE 40 PVC PIPE SHALL NOT BE THREADED. WHERE THREADED CONNECTIONS ARE REQUIRED, SCHEDULE 80 PIPE OR A THREADED ADAPTER SHALL BE USED, AT THE CONTRACTOR'S OPTION. SOLVENT WELD CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- ALL SPRINKLER HEADS SHALL BE INSTALLED TRUE AND PLUMB, AND SHALL NOT BE INSTALLED PERPENDICULAR TO THE FINISHED GRADE EXCEPT IN THE CASE WHERE THE GRADE IS DEAD LEVEL OR UNLESS OTHERWISE CALLED FOR IN THE PLANS.
- ANY SPRINKLER HEAD SELECTED BY THE CONTRACTOR HAVING A VARIABLE FLOW ADJUSTMENT FEATURE SHALL BE ADJUSTED UNDER DYNAMIC CONDITIONS.
- FOR PIPELINES CROSSING EXISTING PAVED ROADWAYS, WORK SHALL BE PERFORMED AS FOLLOWS:
A. A.C. PAVEMENT SHALL BE NEATLY CUT.
B. TRENCH BACKFILL MATERIAL AND A.C. PAVEMENT SHALL MATCH THE EXISTING PAVEMENT STRUCTURE.
- ALL PIPING DESIGNS ARE BASED ON THE HAZEN-WILLIAMS FORMULA:
$$v = 1.318cr^{0.63} s^{0.54} \text{ AND } h_f = 1(0.00515Q/D^{2.63C})^{1.852}$$

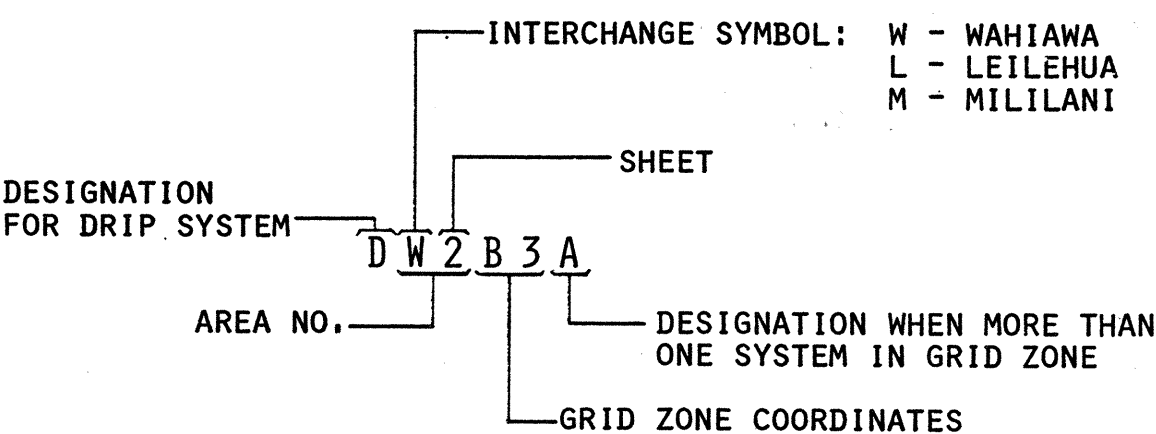
HAZEN-WILLIAMS COEFFICIENT USED: FOR PVC PIPE, C = 130
- CONTROL VALVES, GATE VALVES, VALVE ASSEMBLY UNITS, AIR RELIEF VALVES AND REMOTE CONTROL VALVES SHOWN ADJACENT TO CURBS, SHOULDERS AND PAVED AREAS SHALL BE INSTALLED 4 FEET FROM THE ABOVE MENTIONED.
- UNLESS OTHERWISE NOTED, SPRINKLERS SHALL BE INSTALLED 5 FEET FROM CURBS, SHOULDERS, STRUCTURES, DITCHES, SLOPE PAVING AND GUARD RAILS; AND A MAXIMUM OF 5 FEET FROM FENCES. SPRINKLERS SHOWN ADJACENT TO SIDEWALKS SHALL BE INSTALLED A MAXIMUM OF 12 INCHES FROM THE SIDEWALK. SPRINKLERS SHOWN ADJACENT TO CURBS IN GORE AREAS AND IN THE MEDIAN SHALL BE INSTALLED A MAXIMUM OF 12 INCHES FROM THE CURB UNLESS OTHERWISE NOTED.
- ALL POP-UP SPRINKLER HEADS SHALL BE INSTALLED ON FLEX SWING JOINTS. SWING JOINTS WILL BE THE SAME SIZE AS THE RISER CONNECTION.
- USE OF WATER STREAM BREAK-UP DEVICES WILL BE PERMITTED TO ADJUST COVERAGE RADII OF SPRINKLER HEADS.
- 'CENTRAL PROGRAMMER' AND 'MASTER CONTROLLER' ARE THE SAME, AND THE TERMS USED INTERCHANGEABLY. 'FIELD CONTROLLER' AND 'SATELLITE CONTROLLER' ARE THE SAME, AND THE TERMS USED INTERCHANGEABLY. 'AUTOMATIC CONTROL VALVE' AND 'REMOTE CONTROL VALVE' ARE THE SAME, AND THE TERMS USED INTERCHANGEABLY.

IRRIGATION LEGEND

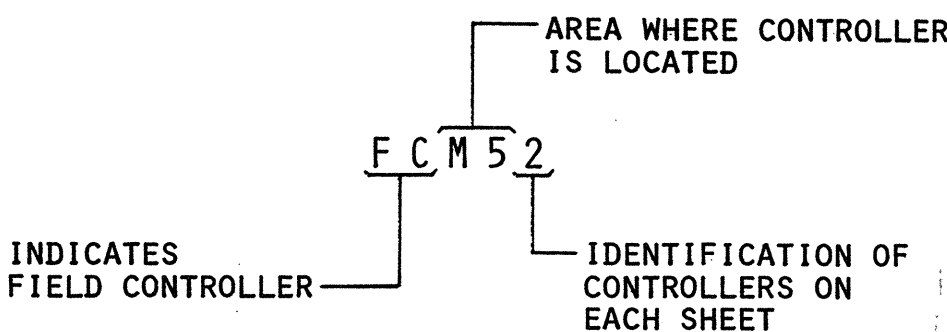
- FULL CIRCLE POP-UP SPRINKLER HEAD
- HALF CIRCLE POP-UP SPRINKLER HEAD
- FULL CIRCLE FIXED SPRINKLER HEAD
- HALF CIRCLE FIXED SPRINKLER HEAD
- FIELD CONTROLLER
- DRIP IRRIGATION VALVE ASSEMBLY UNIT
- GATE VALVE
- ELECTRIC REMOTE CONTROL VALVE
- HOSE BIBB
- PLASTIC PIPE SUPPLY LINE
- DRIP IRRIGATION LINE - PLASTIC
- AIR RELIEF AND VACUUM RELIEF VALVE
- PRESSURE RELIEF VALVE
- BACKFLOW PREVENTER

SPRINKLER DESIGNATION	SPRINKLER TYPE	DISCHARGE	OPERATING PRESSURE	RADIUS
S12	IMPACT, FULL CIRCLE	6.3 GPM	40 PSI	40 FT.
S13	IMPACT, FULL CIRCLE	3.8	30	30
*S14	IMPACT, FULL CIRCLE	2.4	35	20
S15	SPRAY, FULL CIRCLE	4.8	30	15
S16	SPRAY, FULL CIRCLE	1.5	15	10
S22	IMPACT, PART CIRCLE	6.3	40	40
S23	IMPACT, PART CIRCLE	3.8	30	30
*S24	IMPACT, PART CIRCLE	1.3	35	20
S25	SPRAY, PART CIRCLE	3.6	30	15
S26	SPRAY, PART CIRCLE	1.2	15	10
P12	ROTOR POP-UP, FULL CIRCLE	6.4	40	40
P13	ROTOR POP-UP, FULL CIRCLE	3.9	30	30
*P14	ROTOR POP-UP, FULL CIRCLE	2.4	35	20
P15	SPRAY POP-UP, FULL CIRCLE	4.8	30	15
P16	SPRAY POP-UP, FULL CIRCLE	1.5	15	10
P22	ROTOR POP-UP, PART CIRCLE	6.4	40	40
P23	ROTOR POP-UP, PART CIRCLE	3.9	30	30
*P24	ROTOR POP-UP, PART CIRCLE	1.3	35	20
P25	SPRAY POP-UP, PART CIRCLE	3.6	30	15
P26	SPRAY POP-UP, PART CIRCLE	1.2	15	10

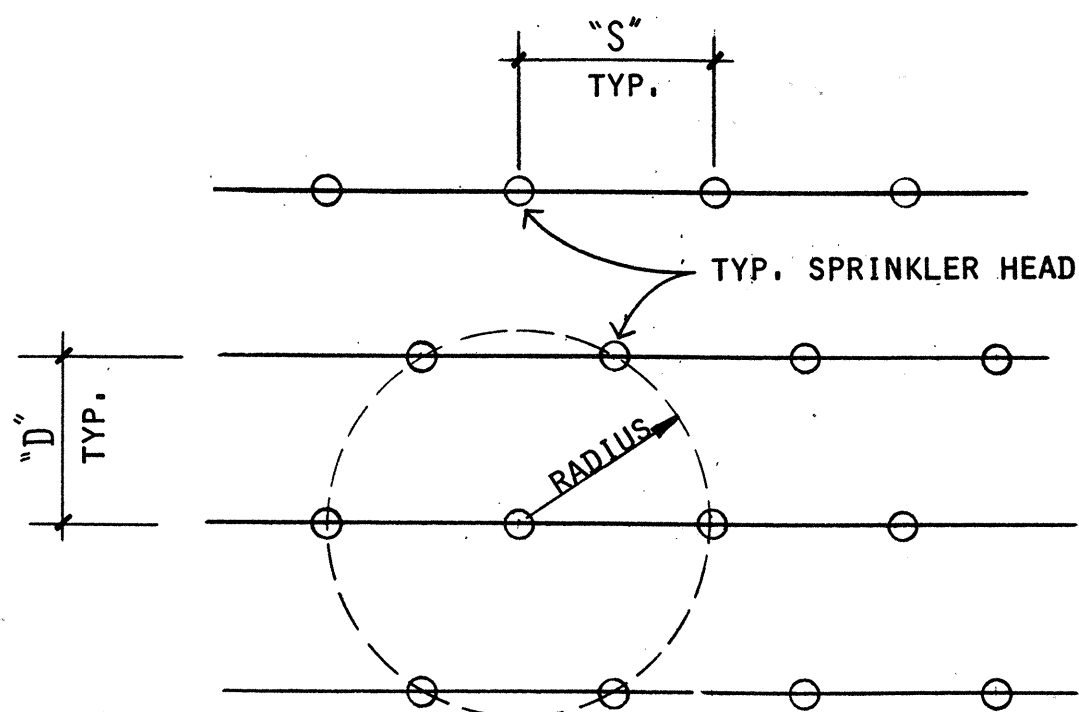
*HEADS MAY BE OF IMPACT OR SPRAY TYPES, SUBJECT TO APPROVAL.



EXPLANATION OF IRRIGATION SYSTEM DESIGNATIONS



EXPLANATION OF FIELD CONTROLLER DESIGNATIONS



SPRINKLER RADIUS	"S"	"D"
10 FT.	10'-0"	8'-8"
15	15'-0"	13'-0"
20	20'-0"	17'-4"
30	30'-0"	26'-0"
40	40'-0"	35'-8"

TYPICAL SPRINKLER SPACING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17):6

WAHIAWA INTERCHANGE
LEILEHUA INTERCHANGE

GENERAL NOTES

SHEET No. 4 OF 22 SHEETS

CURTIS Q. M. YEE
REGISTERED PROFESSIONAL ENGINEER
No. 2024-E



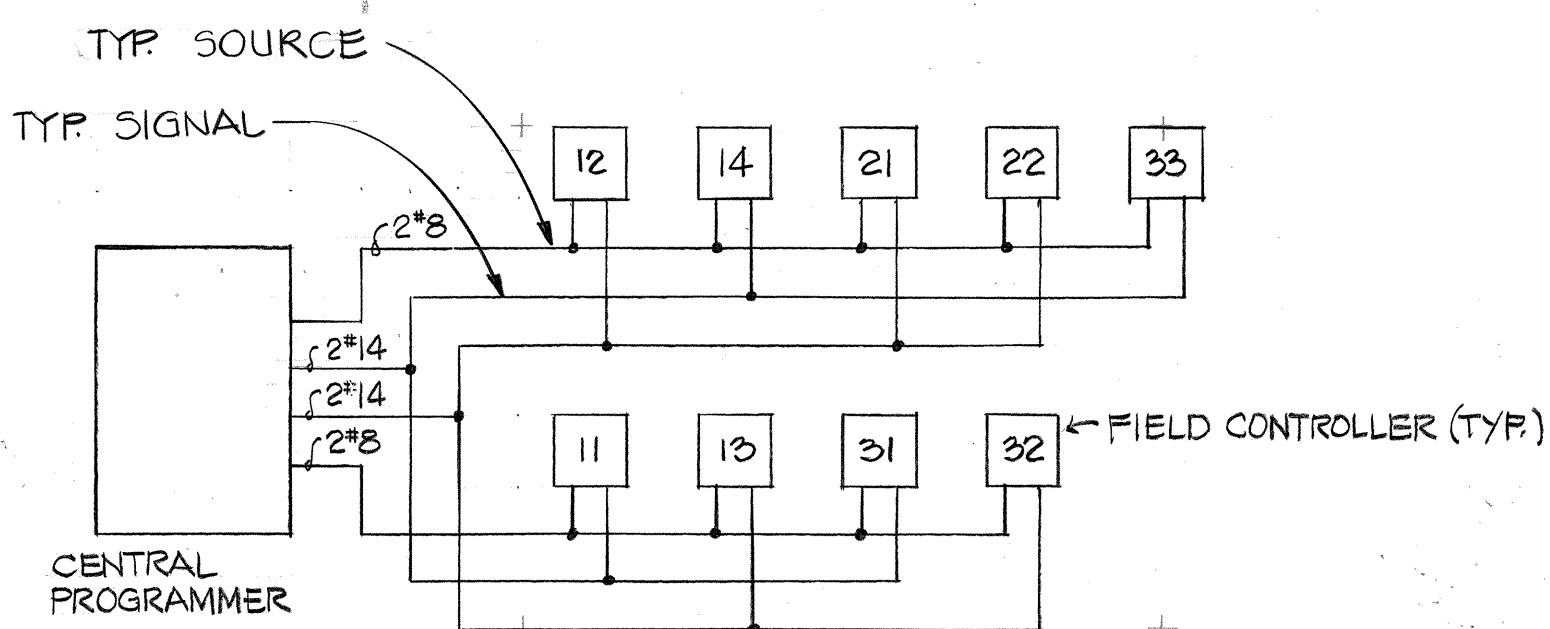
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	15	31

DATE	REVISION
11/18/76	Revised table for sprinkler system; revised water meter connection; revised backflow preventer; delete planting Lippia - per addendum No. 1.

TRUE NORTH
SCALE = 1" = 50'

BANK NO.	LOCATION	HEAD (NO-TYPE)	CONTROL VALV SIZE PRESS
W2B6	26' O/S STA. 9+97, RAMP "C"	13-S23	1 1/2" 43 PSI
W2B7	56' O/S STA. 60+58, BASELINE	8-S23	1" 34 PSI
W2C6A	0' O/S STA. 61+42, BASELINE	8-S15, 1-S25	1" 33 PSI
W2C6B	56' O/S STA. 62+14, BASELINE	9-S23	1" 35 PSI
W2D6	18' O/S STA. 63+50, BASELINE	8-P23	1 1/2" 34 PSI
W2D7A	65' O/S STA. 62+03, BASELINE	8-S23	1 1/2" 34 PSI
W2D7B	190' O/S STA. 62+25, BASELINE	8-S25	1" 34 PSI
W2E4	26' O/S STA. 6+44, RAMP "C"	20-S23	1 1/2" 35 PSI
W2E5A	60' O/S STA. 64+75, BASELINE	8-S23	1" 34 PSI
W2E5B	18' O/S STA. 66+45, BASELINE	24-P23	1 1/2" 34 PSI
W2E6	65' O/S STA. 63+69, BASELINE	15-S23	1 1/2" 34 PSI

ONE LINE DIAGRAM



ELECTRICAL CONNECTION DIAGRAM

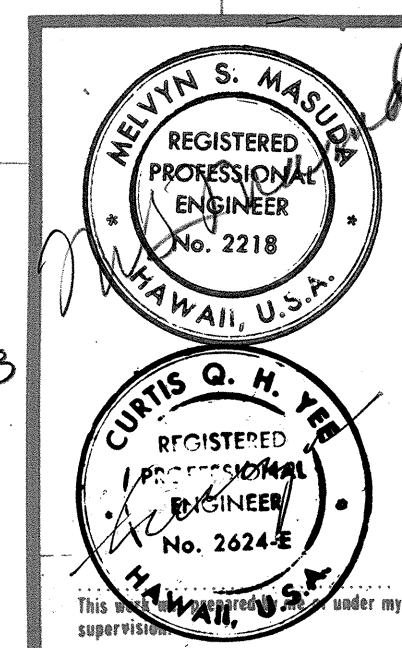
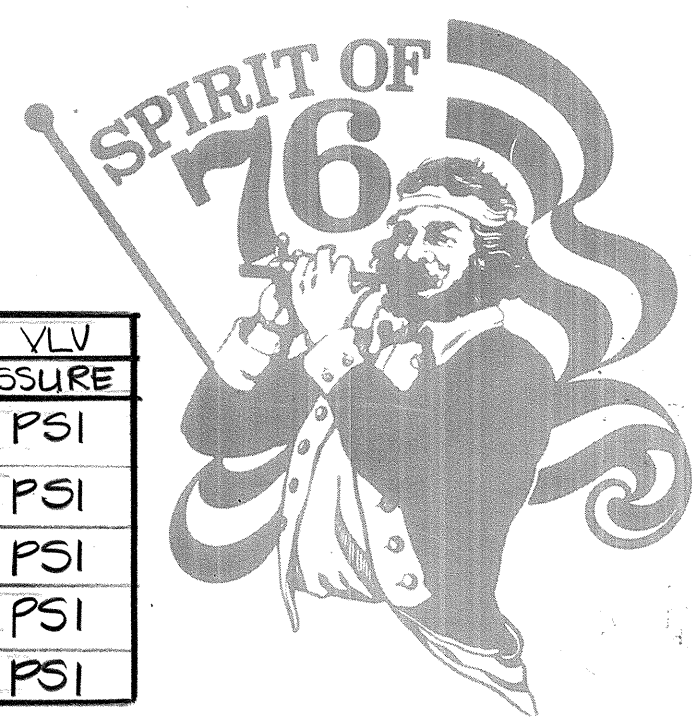
BANK NO.	LOCATION	HEAD (NO-TYPE)	CONTROL VALV SIZE PRESSURE
W2F3	26' O/S STA. 4+04, RAMP "C"	21-S23	1 1/2" 34 PSI
W2F4A	58' O/S STA. 66+31, BASELINE	5-S24	1" 39 PSI
W2F4B	58' O/S STA. 67+30, BASELINE	7-S26	1" 19 PSI
W2F5	65' O/S STA. 65+80, BASELINE	21-S23	1 1/2" 34 PSI
W2G3	26' O/S STA. 2+00, RAMP "C"	23-S23	1 1/2" 34 PSI
W2G5	65' O/S STA. 62+64, BASELINE	18-S23	1 1/2" 34 PSI
W2H3	81' O/S STA. 70+84, BASELINE	14-S22	2" 45 PSI

BANK NO.	LOCATION	HEAD (NO-TYPE)	CONTROL VALV SIZE PRESSURE
W2H4	20' O/S STA. 69+92, BASELINE	23-P23	1 1/2" 34 PSI
W2H5	72' O/S STA. 69+32, BASELINE	10-S22	1 1/2" 45 PSI
W2I4A	0' O/S STA. 71+94, BASELINE	13-S15, 1-S25	1 1/2" 32 PSI
W2I4B	71' O/S STA. 71+84, BASELINE	12-S22	2" 45 PSI
W2J3	64' O/S STA. 72+92, BASELINE	17-S23	1 1/2" 34 PSI

ELECTRICAL NOTES:

- ELECTRICAL RACEWAYS SHALL BE DIRECT-BURIED PVC SCHED. 40 OR 80 AS NOTED IN THE SPECS.
- PROVIDE #12 AWG GROUNDING CONDUCTOR TO EACH FIELD CONTROLLER.
- JUNCTION BOXES SHALL BE PRECAST CONCRETE TYPE "A" VALVE BOXES w/CONCRETE COVER. A 2" HIGH LETTER "E" SHALL BE STENCILLED & PAINT ON EACH COVER FOR IDENTIFICATION.
- ALL SPLICES SHALL BE WATERPROOF.

Approved for cross-connection control requirements.
Board of Water Supply
Date 10-8-76



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

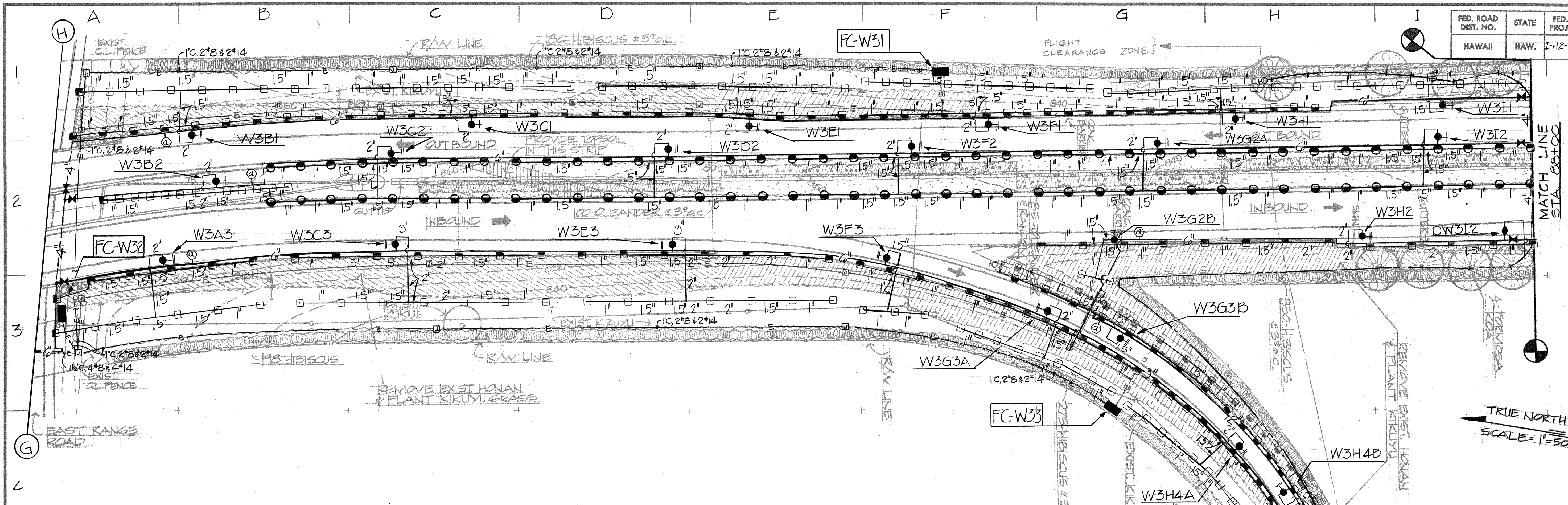
PROJECT NO. I-H2-1(17):6

WAIHAWA INTERCHANGE
SPRINKLER PLAN
AREA "W-2"

SHEET No. 6 OF 22 SHEETS

ADD. 15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)G	1976	16	31



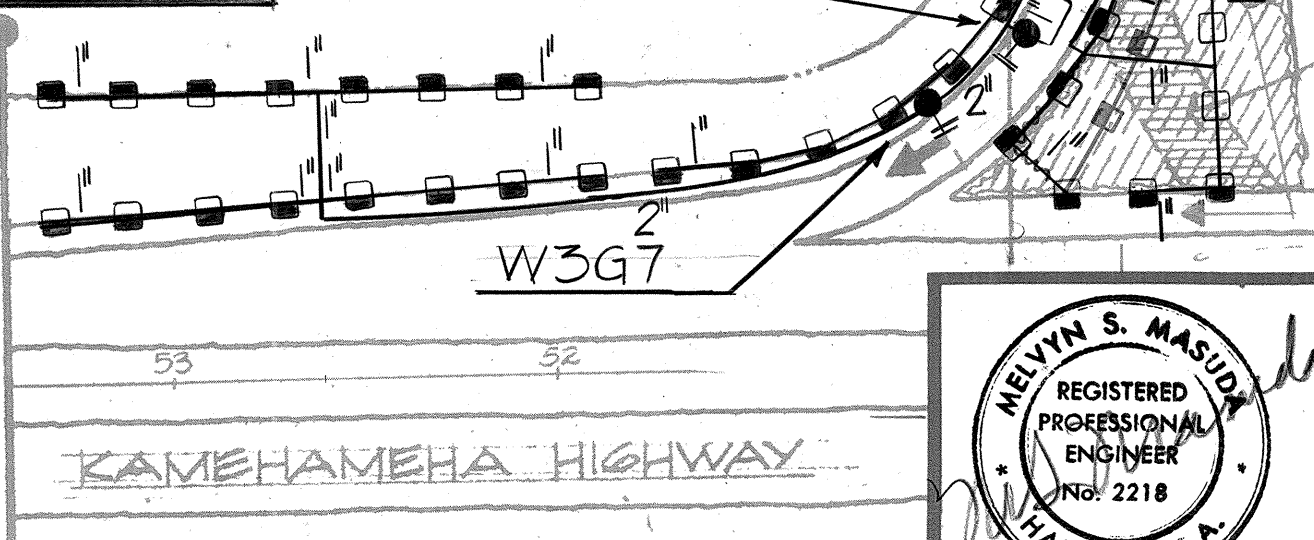
"CONTINUED FROM SHEET NO. 14"

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE PRESSURE
W3A3	74' 0/5 STA. 74+50, BASELINE	5-S12, 7-S22	2" 45 PSI
W3B1	68' 0/5 STA. 74+23, BASELINE	8-S13, 10-S23	1 1/2" 34 PSI
W3B2	0' 0/5 STA. 75+07, BASELINE	12-S15, 1-S25	1 1/2" 34 PSI
W3C1	68' 0/5 STA. 77+57, BASELINE	8-S13, 8-S23	1 1/2" 34 PSI
W3C2	15' 0/5 STA. 76+79, BASELINE	16-P23	1 1/2" 34 PSI
W3C3	74' 0/5 STA. 77+07, BASELINE	7-S12, 7-S22	2" 45 PSI
W3D2	15' 0/5 STA. 79+47, BASELINE	18-P23	1 1/2" 34 PSI
W3E1	68' 0/5 STA. 80+27, BASELINE	9-S13, 9-S23	1 1/2" 34 PSI
W3E3	74' 0/5 STA. 79+23, BASELINE	7-S12, 7-S22	2" 45 PSI
W3F1	68' 0/5 STA. 82+60, BASELINE	12-S14, 12-S24	1 1/2" 40 PSI
W3F2	15' 0/5 STA. 81+66, BASELINE	16-P23	1 1/2" 34 PSI
W3F3	27' 0/5 STA. 2+30, RAMP "D"	3-S13, 4-S23	1" 34 PSI
W3G2A	15' 0/5 STA. 84+20, BASELINE	18-P23	1 1/2" 34 PSI
W3G2B	74' 0/5 STA. 83+85, BASELINE	2-S12, 4-S22	1 1/2" 45 PSI
W3G3A	27' 0/5 STA. 4+08, RAMP "D"	9-S14, 10-S24	1" 39 PSI
W3G3B	15' 0/5 STA. 4+70, RAMP "D"	9-S23	1" 35 PSI
W3G7	48' 0/5 STA. 52+60, KAM HWY	16-S24	1" 43 PSI
W3H1	68' 0/5 STA. 84+97, BASELINE	11-S14, 11-S24	1 1/2" 40 PSI
W3H2	74' 0/5 STA. 86+21, BASELINE	9-S22	1 1/2" 45 PSI
W3H4A	27' 0/5 STA. 6+17, RAMP "D"	10-S14, 10-S24	1 1/2" 39 PSI
W3H4B	15' 0/5 STA. 7+04, RAMP "D"	10-S24	1" 40 PSI
W3H5A	27' 0/5 STA. 8+07, RAMP "D"	8-S14, 9-S24	1" 40 PSI
W3H5B	15' 0/5 STA. 9+04, RAMP "D"	11-S24	1" 40 PSI
W3H6	27' 0/5 STA. 10+48, RAMP "D"	12-S24	1" 40 PSI
W3I1	88' 0/5 STA. 87+09, BASELINE	10-S14	1" 40 PSI
W3I2	15' 0/5 STA. 86+25, BASELINE	16-P23	1 1/2" 34 PSI
W3I6	15' 0/5 STA. 10+57, RAMP "D"	3-S14, 67-S24	1" 43 PSI

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE PRESSURE
WIF5B	5' 0/5 STA. 13+48, RAMP "E"	7-P12, 3-P22	1 1/2" 45 PSI
WIF6	22' 0/5 STA. 13+00, RAMP "E"	10-P23	1" 35 PSI
WIG3	23' 0/5 STA. 57+67, BASELINE	56-S1288-S22	2" 45 PSI
WIG4	0' 0/5 STA. 57+80, BASELINE	6-S14	1" 40 PSI
WIG5	5' 0/5 STA. 7+28, LOOP I	10-S22	2" 46 PSI
WIG6	5' 0/5 STA. 5+15, LOOP I	6-S25	1" 32 PSI
WIH4	164' 0/5 STA. 58+88, BASELINE	9-P12, 8-P22	2 1/2" 45 PSI
WIH5	183' 0/5 STA. 58+80, BASELINE	12-P12, 4-P22	2" 45 PSI
WIH6A	5' 0/5 STA. 3+99, LOOP I	16-P26	1" 16 PSI
WIH6B	22' 0/5 STA. 2+54, LOOP I	11-S25	1" 33 PSI
WIH6C	100' 0/5 STA. 2+23, LOOP I	8-P12, 7-P22	2" 46 PSI
WIH7	32' 0/5 STA. 16+10, RAMP "E"	10-P23	1" 35 PSI
WII5	42' 0/5 STA. 1+55, LOOP I	68-S23 3-P23	1" 35 PSI
WII6A	33' 0/5 STA. 17+90, RAMP "E"	78-P25	1" 32 PSI
WII6B	55' 0/5 STA. 18+85, RAMP "E"	8-P25	1" 32 PSI
WII6C	5' 0/5 STA. 17+85, RAMP "E"	3-P24	1" 39 PSI

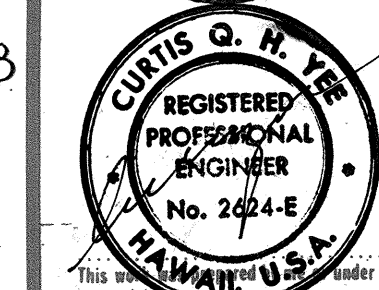
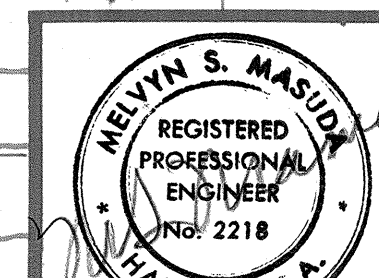


PROJECT LIMIT
STA. 53+44.65



1/2" PLASTIC PIPE (TYP.)
INSTALL EMITTER AT
EACH TREE LOCATION.

DATE	REVISION
11/18/76	Revised table for sprinkler system; delete planting Lippia - per addendum No. 1.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17)G
WAHIAWA INTERCHANGE
SPRINKLER PLAN
AREA "W-3"

SHEET No. 7 OF 22 SHEETS

ADD. 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)-6	1976	17	31

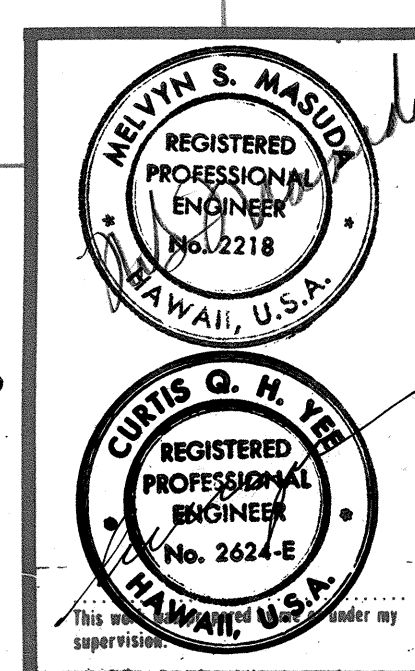
TRUE NORTH
SCALE = 1"=50'

- ELECTRICAL NOTES:**
1. ELECTRICAL RACEWAYS SHALL BE DIRECT-BURIED PVC SCHED. 40 OR 80 AS NOTED IN THE SPECS.
 2. JUNCTION BOXES SHALL BE PRECAST CONCRETE TYPE "A" VALVE BOXES w/ CONCRETE COVER. A 2" HIGH LETTER "E" SHALL BE STENCILLED w/ PAINT ON EACH COVER FOR IDENTIFICATION.
 3. PROVIDE A #12 AWG GROUNDING CONDUCTOR TO EACH FIELD CONTROLLER.

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRSSURE
LIB2	96' O/S. STA. 89+41, BASELINE	9-S22	1 1/2"	44 PSI
LIB3	15' O/S. STA. 89+76, BASELINE	25-P23	2"	32 PSI
LIB4	98' O/S. STA. 89+83, BASELINE	10-S22	1 1/2"	44 PSI
LIC1	27' O/S. STA. 2+42, GOLF CRS RD	12-S24	1"	40 PSI
LID2	93' O/S. STA. 93+01, BASELINE	21-S13, 1-S23	1 1/2"	32 PSI
LID3	15' O/S. STA. 94+00, BASELINE	24-P23	1 1/2"	32 PSI
LID4	100' O/S. STA. 93+45, BASELINE	9-S22	1 1/2"	44 PSI
LIF2	98' O/S. STA. 96+00, BASELINE	15-S13, 1-S23	1 1/2"	33 PSI
LIF3	15' O/S. STA. 96+85, BASELINE	2-S26, 23-P23	1 1/2"	32 PSI
LIF4	99' O/S. STA. 97+04, BASELINE	9-S22	1 1/2"	44 PSI
LIG1	40' O/S. STA. 4+88, GOLF CRS RD	5-S14, 7-S24	1"	38 PSI
LIG2	110' O/S. STA. 97+96, BASELINE	7-S12, 1-S22	1 1/2"	44 PSI
LIG5	39' O/S. STA. 9+77, GOLF CRS RD	12-P24	1"	40 PSI
LIG6	39' O/S. STA. 12+04, GOLF CRS RD	11-P24	1"	40 PSI
LIG8	50' O/S. STA. 13+79, GOLF CRS RD	5-P23	1"	37 PSI
LIH6	57' O/S. STA. 12+09, GOLF CRS RD	5-P14, 7-P24	1"	40 PSI
LIH8	44' O/S. STA. 13+43, GOLF CRS RD	6-P23	1"	38 PSI

11/18/76 Revised table for sprinkler system; delete planting Lippia per addendum No. 1.

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17)-6

**LEILEHUA INTERCHANGE
SPRINKLER PLAN
AREA "L-1"**

SHEET No. 8 OF 22 SHEETS

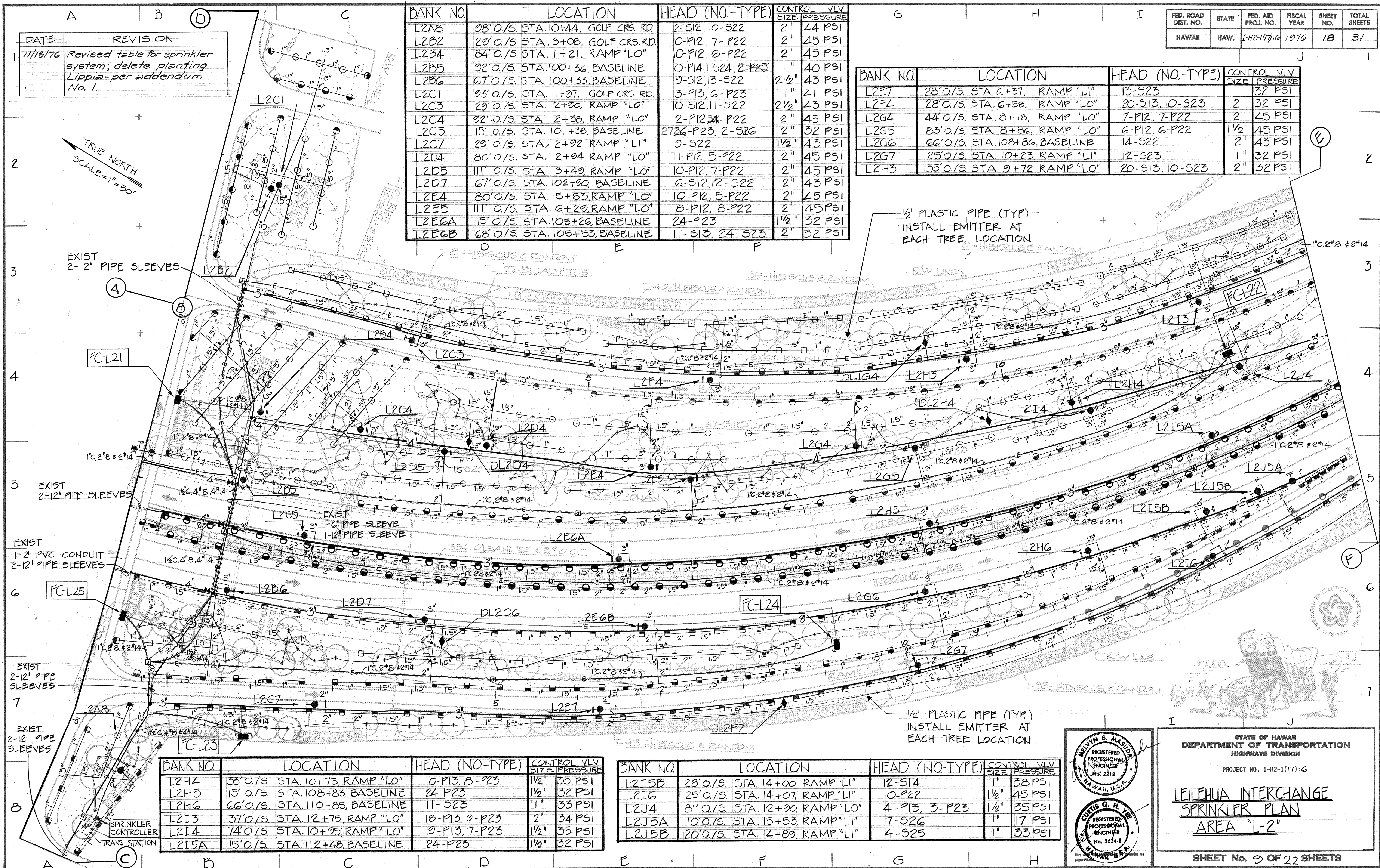
ADD. 17

DATE	REVISION
11/18/76	Revised table for sprinkler system; delete planting Lippia - per addendum No. 1.

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRESSURE
L2A8	98' O/S. STA. 10+44, GOLF CRS. RD.	2-S12, 10-S22	2"	44 PSI
L2B2	29' O/S. STA. 3+08, GOLF CRS. RD.	10-P12, 7-P22	2"	45 PSI
L2B4	84' O/S. STA. 1+21, RAMP "LO"	10-P12, 6-P22	2"	45 PSI
L2B5	92' O/S. STA. 100+36, BASELINE	10-P14, 1-S24, 2-P25	1"	40 PSI
L2B6	67' O/S. STA. 100+33, BASELINE	9-S12, 13-S22	2 1/2"	43 PSI
L2C1	93' O/S. STA. 1+97, GOLF CRS. RD.	3-P13, 6-P23	1"	41 PSI
L2C3	29' O/S. STA. 2+90, RAMP "LO"	10-S12, 11-S22	2 1/2"	43 PSI
L2C4	92' O/S. STA. 2+38, RAMP "LO"	12-P12, 34-P22	2"	45 PSI
L2C5	15' O/S. STA. 101+38, BASELINE	2726-P23, 2-S26	2"	32 PSI
L2C7	29' O/S. STA. 2+92, RAMP "LI"	9-S22	1 1/2"	43 PSI
L2D4	80' O/S. STA. 2+94, RAMP "LO"	11-P12, 5-P22	2"	45 PSI
L2D5	111' O/S. STA. 3+49, RAMP "LO"	10-P12, 7-P22	2"	45 PSI
L2D7	67' O/S. STA. 102+90, BASELINE	6-S12, 12-S22	2"	43 PSI
L2E4	80' O/S. STA. 5+83, RAMP "LO"	10-P12, 5-P22	2"	45 PSI
L2E5	111' O/S. STA. 6+29, RAMP "LO"	8-P12, 8-P22	2"	45 PSI
L2EGA	15' O/S. STA. 105+26, BASELINE	24-P23	1 1/2"	32 PSI
L2EGB	68' O/S. STA. 105+53, BASELINE	11-S13, 24-S23	2"	32 PSI

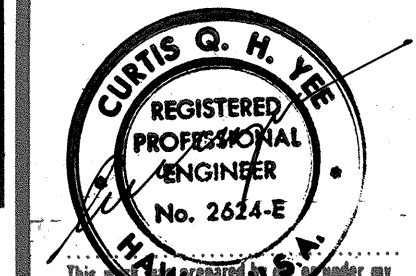
BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRESSURE
L2E7	28' O/S. STA. 6+37, RAMP "LI"	13-S23	1"	32 PSI
L2F4	28' O/S. STA. 6+58, RAMP "LO"	20-S13, 10-S23	2"	32 PSI
L2G4	44' O/S. STA. 8+18, RAMP "LO"	7-P12, 7-P22	2"	45 PSI
L2G5	83' O/S. STA. 8+86, RAMP "LO"	6-P12, 6-P22	1 1/2"	45 PSI
L2G6	66' O/S. STA. 108+86, BASELINE	14-S22	2"	43 PSI
L2G7	25' O/S. STA. 10+23, RAMP "LI"	12-S23	1"	32 PSI
L2H3	35' O/S. STA. 9+72, RAMP "LO"	20-S13, 10-S23	2"	32 PSI

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)-G	1976	18	31



BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRESSURE
L2H4	33' O/S. STA. 10+75, RAMP "LO"	10-P13, 8-P23	1 1/2"	35 PSI
L2H5	15' O/S. STA. 108+83, BASELINE	24-P23	1 1/2"	32 PSI
L2H6	66' O/S. STA. 110+85, BASELINE	11-S23	1"	33 PSI
L2I3	37' O/S. STA. 12+75, RAMP "LO"	18-P13, 9-P23	2"	34 PSI
L2I4	74' O/S. STA. 10+95, RAMP "LO"	9-P13, 7-P23	1 1/2"	35 PSI
L2I5A	15' O/S. STA. 112+48, BASELINE	24-P23	1 1/2"	32 PSI

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRESSURE
L2I5B	28' O/S. STA. 14+00, RAMP "LI"	12-S14	1"	38 PSI
L2I6	25' O/S. STA. 14+07, RAMP "LI"	10-P22	1 1/2"	45 PSI
L2J4	81' O/S. STA. 12+90, RAMP "LO"	4-P13, 13-P23	1 1/2"	35 PSI
L2J5A	10' O/S. STA. 15+53, RAMP "LI"	7-S26	1"	17 PSI
L2J5B	20' O/S. STA. 14+89, RAMP "LI"	4-S25	1"	33 PSI



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17)-G

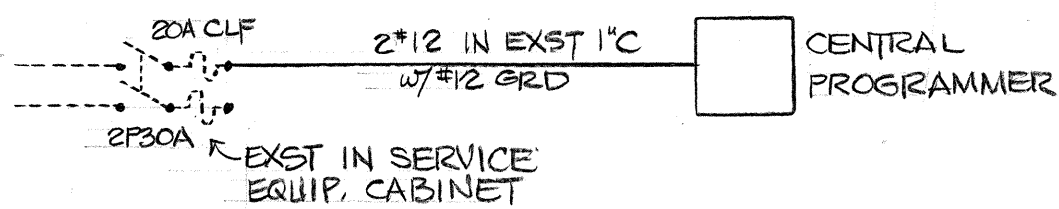
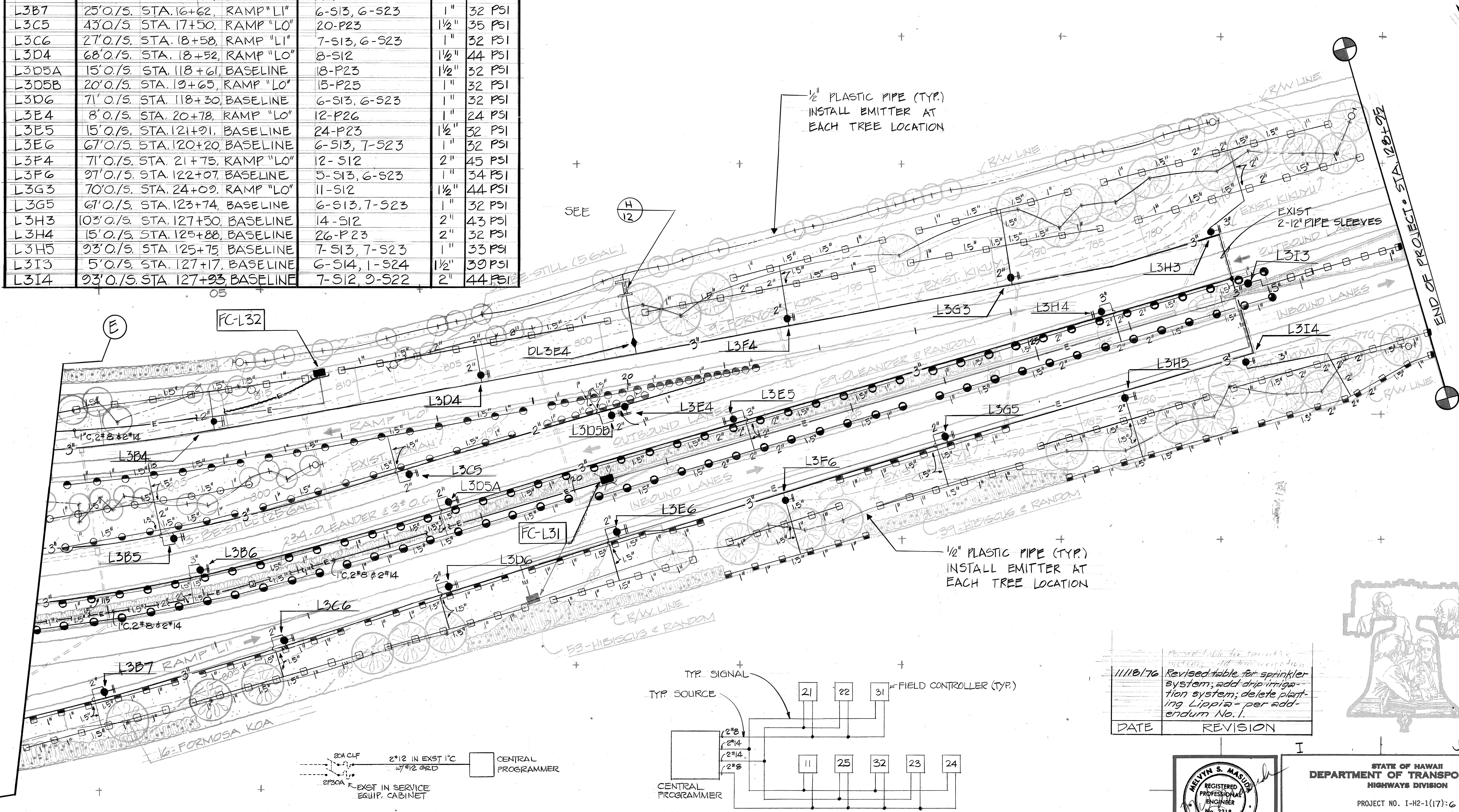
**LEILEHUA INTERCHANGE
SPRINKLER PLAN
AREA "L-2"**

SHEET No. 9 OF 22 SHEETS

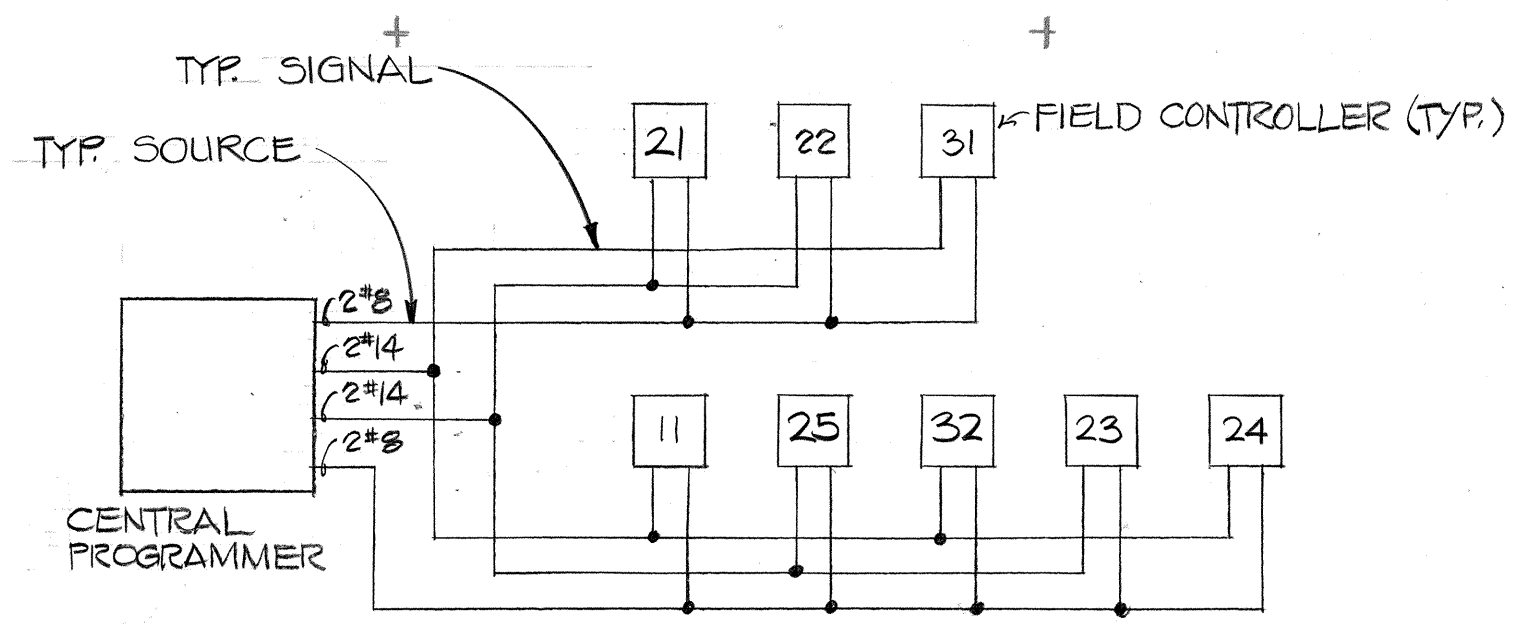
ADD. 18

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	10	31

BANK NO.	LOCATION	HEAD (NO.-TYPE)	CONTROL VLV SIZE	PRESSURE
L3B4	72' O/S. STA. 15+74, RAMP "LO"	7-S22 12	1 1/2"	43 PSI
L3B5	74' O/S. STA. 115+68, BASELINE	8-P13, 14-P23	1 1/2"	34 PSI
L3B6	15' O/S. STA. 115+92, BASELINE	21-P23	1 1/2"	32 PSI
L3B7	25' O/S. STA. 16+62, RAMP "LI"	6-S13, 6-S23	1"	32 PSI
L3C5	43' O/S. STA. 17+50, RAMP "LO"	20-P23	1 1/2"	35 PSI
L3C6	27' O/S. STA. 18+58, RAMP "LI"	7-S13, 6-S23	1"	32 PSI
L3D4	68' O/S. STA. 18+52, RAMP "LO"	8-S12	1 1/2"	44 PSI
L3D5A	15' O/S. STA. 118+61, BASELINE	18-P23	1 1/2"	32 PSI
L3D5B	20' O/S. STA. 19+65, RAMP "LO"	15-P23	1"	32 PSI
L3D6	71' O/S. STA. 118+30, BASELINE	6-S13, 6-S23	1"	32 PSI
L3E4	8' O/S. STA. 20+78, RAMP "LO"	12-P26	1"	24 PSI
L3E5	15' O/S. STA. 121+91, BASELINE	24-P23	1 1/2"	32 PSI
L3E6	67' O/S. STA. 120+20, BASELINE	6-S13, 7-S23	1"	32 PSI
L3F4	71' O/S. STA. 21+75, RAMP "LO"	12-S12	2"	45 PSI
L3F6	97' O/S. STA. 122+07, BASELINE	5-S13, 6-S23	1"	34 PSI
L3G3	70' O/S. STA. 24+09, RAMP "LO"	11-S12	1 1/2"	44 PSI
L3G5	67' O/S. STA. 123+74, BASELINE	6-S13, 7-S23	1"	32 PSI
L3H3	103' O/S. STA. 127+50, BASELINE	14-S12	2"	43 PSI
L3H4	15' O/S. STA. 125+88, BASELINE	26-P23	2"	32 PSI
L3H5	93' O/S. STA. 125+75, BASELINE	7-S13, 7-S23	1"	33 PSI
L3I3	5' O/S. STA. 127+17, BASELINE	6-S14, 1-S24	1 1/2"	30 PSI
L3I4	93' O/S. STA. 127+93, BASELINE	7-S12, 9-S22	2"	44 PSI

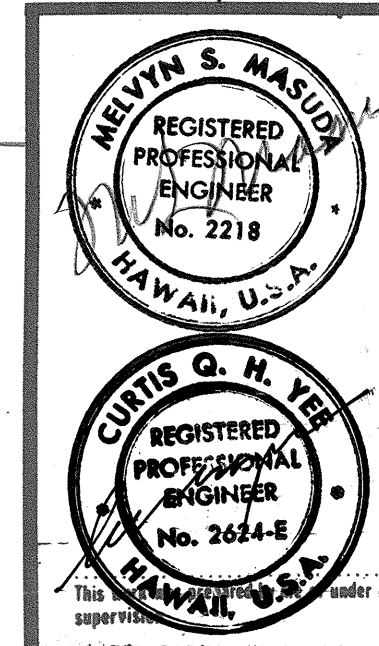


ONE LINE DIAGRAM



ELECTRICAL CONNECTION DIAGRAM

DATE	REVISION
11/18/76	Revised table for sprinkler system; add drip irrigation system; delete planting Lippia - per addendum No. 1.



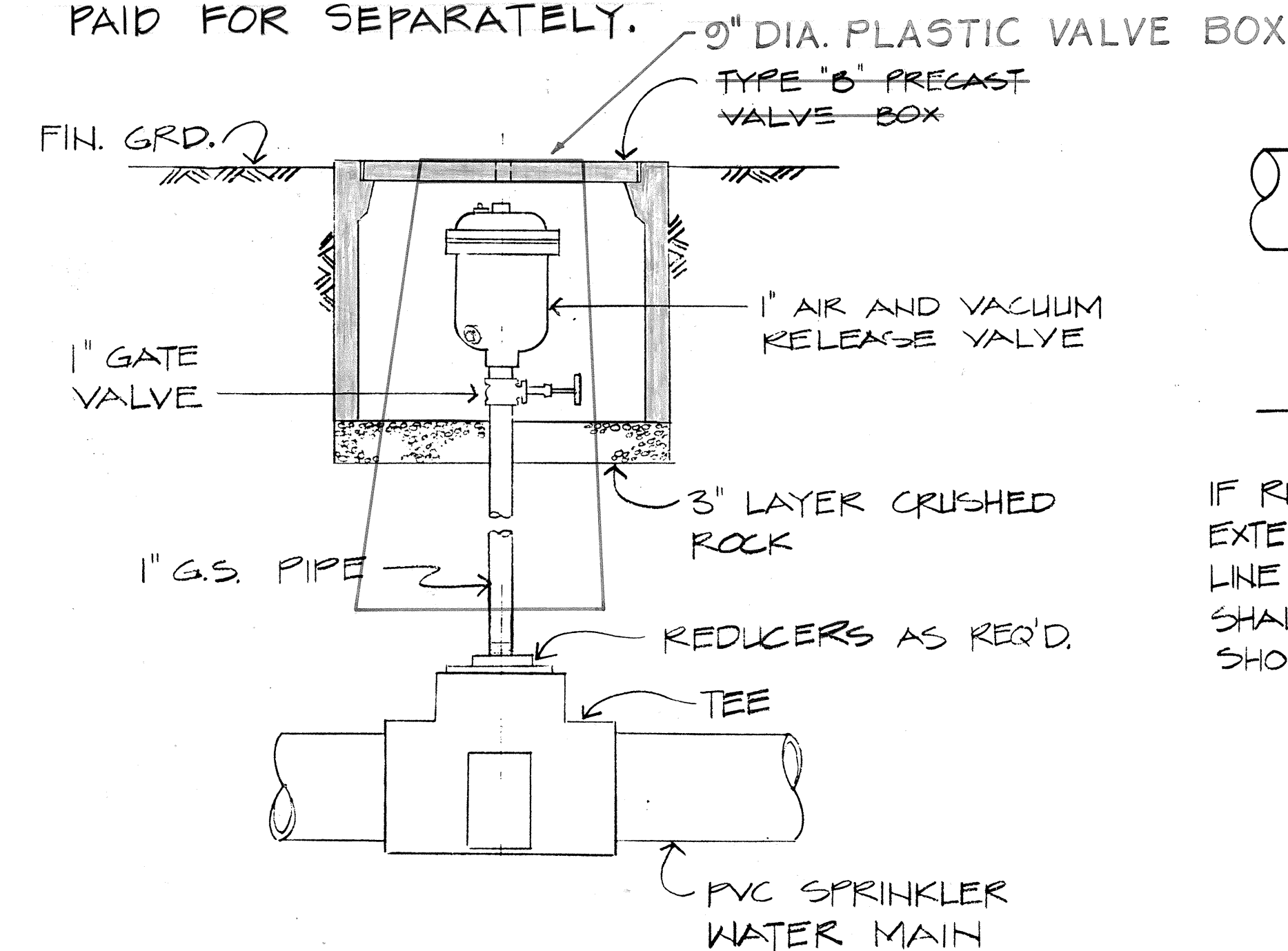
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17):6

**LEILEHUA INTERCHANGE
SPRINKLER PLAN
AREA "L-3"**

SHEET No. 10 OF 22 SHEETS

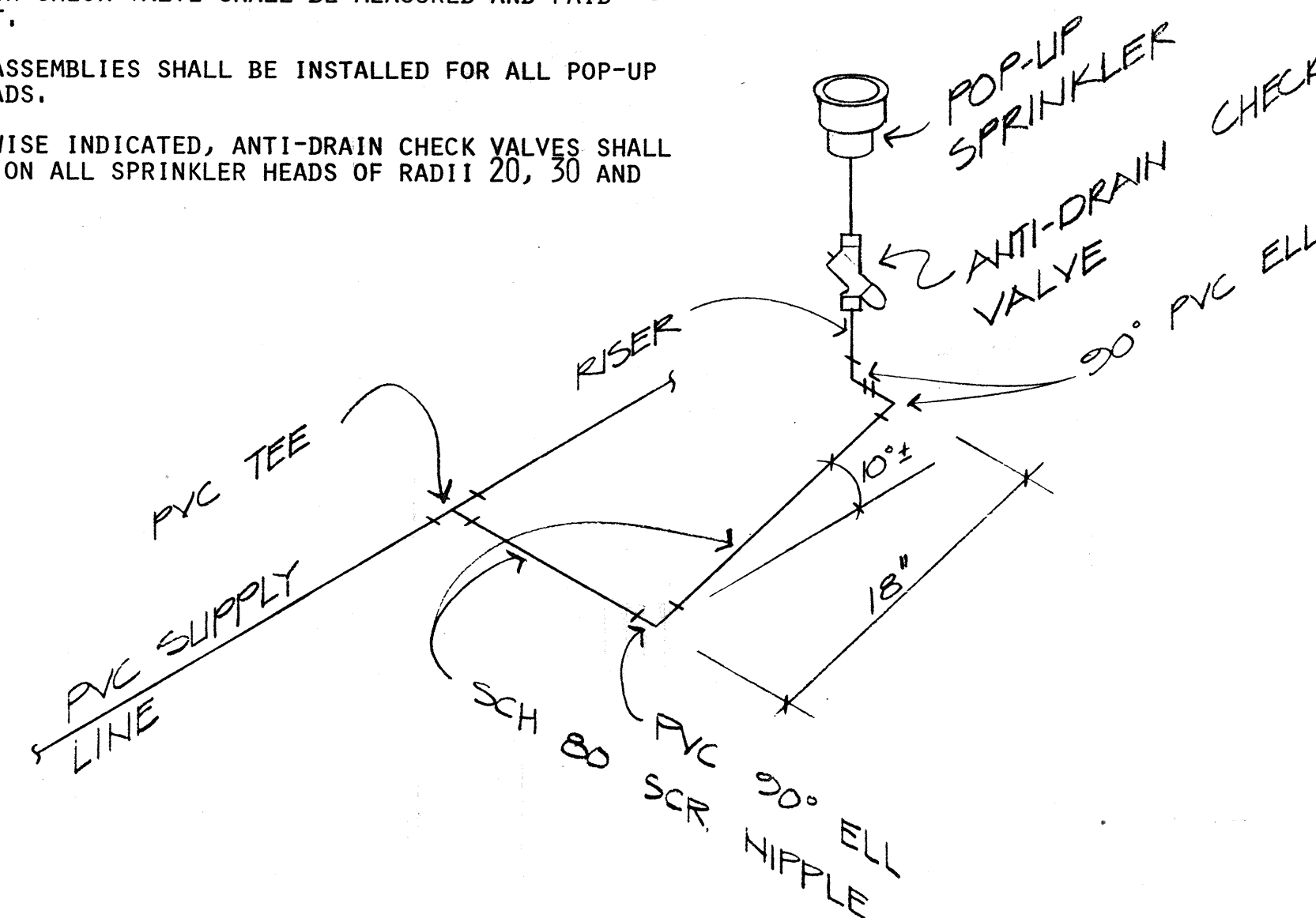
NOTE: TEES, GATE VALVE, BOX, COVER, UNIONS, NIPPLES, ADAPTERS, CRUSHED ROCK, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE VALVE INSTALLATION AND SHALL NOT BE MEASURED OR PAID FOR SEPARATELY.



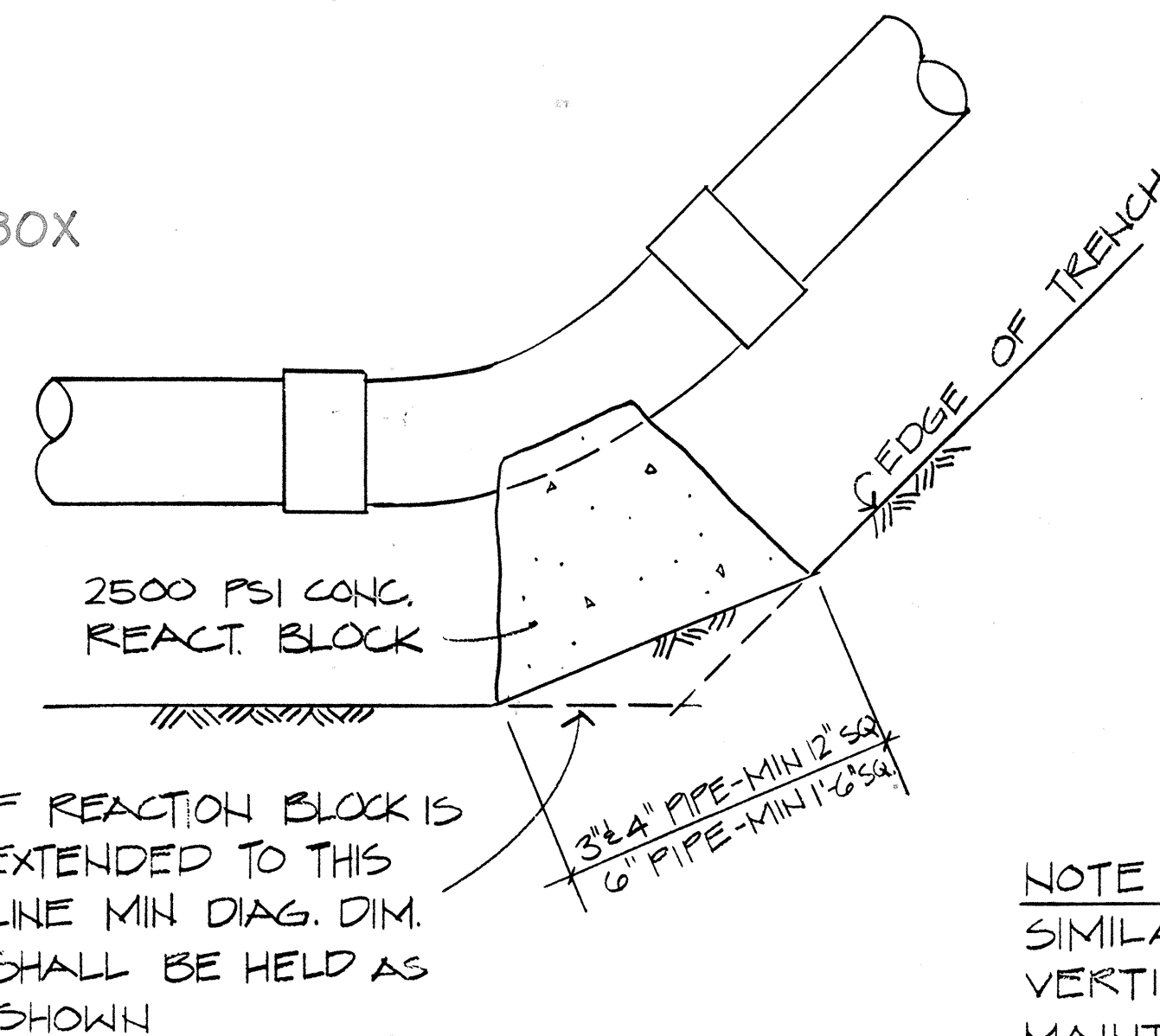
A TYP. AIR & VACUUM RELEASE VALVE
N.T.S.

NOTE:

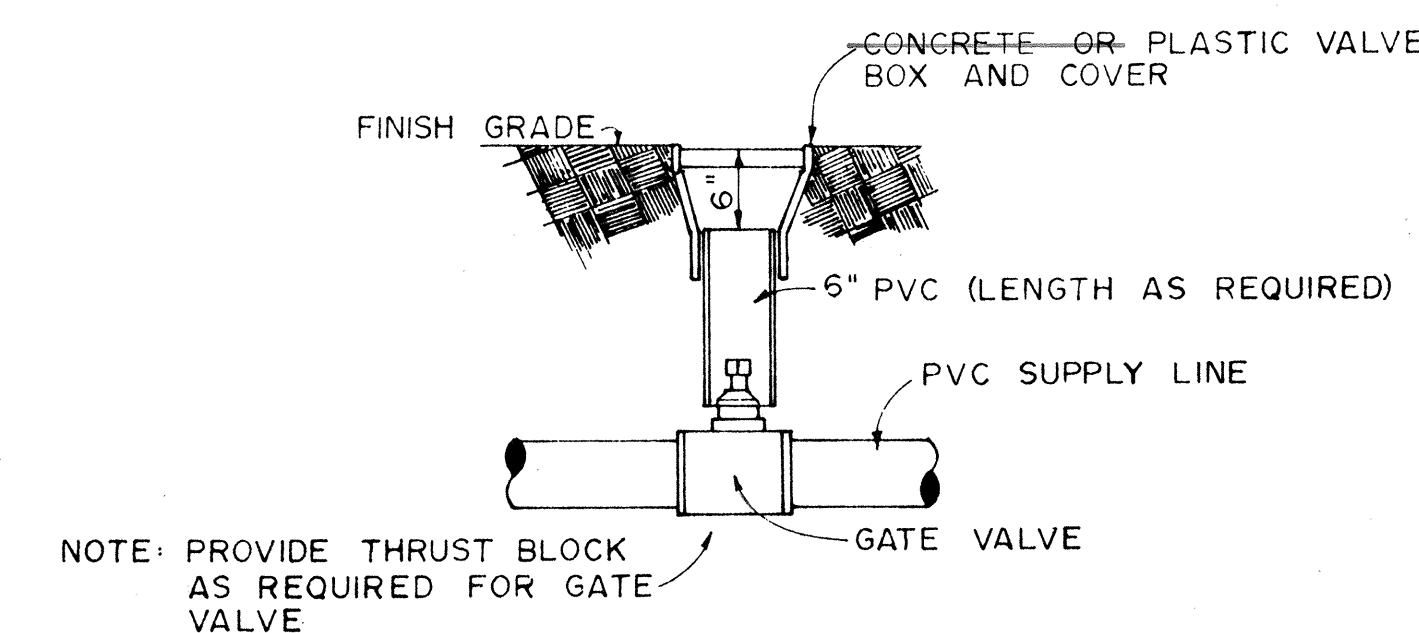
1. THE SPRINKLER HEAD WITH THE REQUIRED RISER, SWING JOINT AND ANTI-DRAIN CHECK VALVE SHALL BE MEASURED AND PAID FOR AS A UNIT.
2. SWING JOINT ASSEMBLIES SHALL BE INSTALLED FOR ALL POP-UP SPRINKLER HEADS.
3. UNLESS OTHERWISE INDICATED, ANTI-DRAIN CHECK VALVES SHALL BE INSTALLED ON ALL SPRINKLER HEADS OF RADI 20, 30 AND 40 FEET.



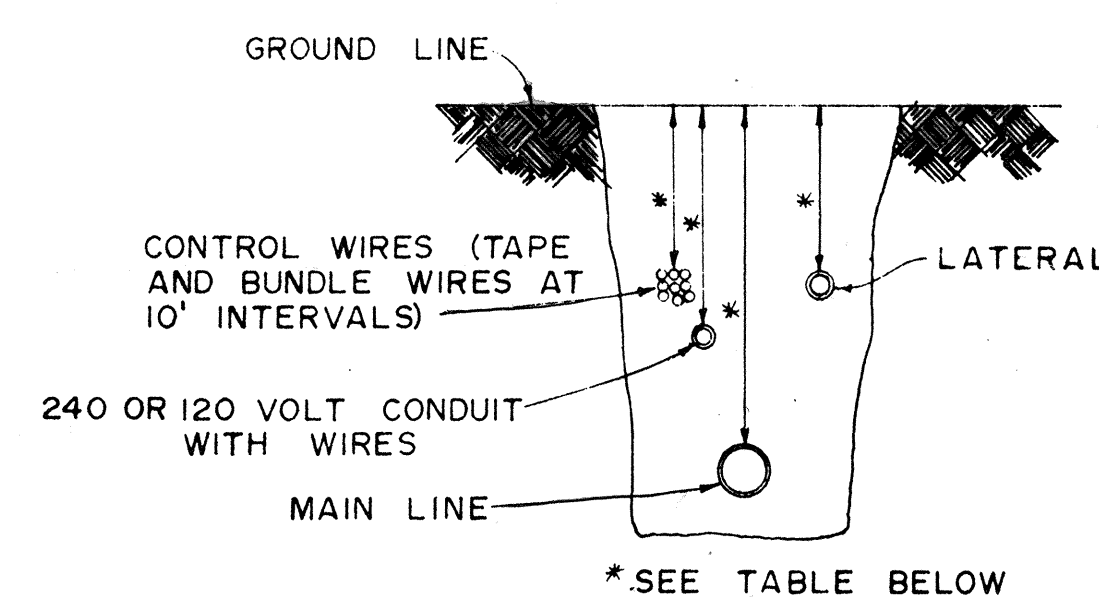
G ISOMETRIC - SWING JOINT ASSEMBLY
N.T.S.



B TYP. REACTION BLOCK @ 45° BEND
N.T.S.

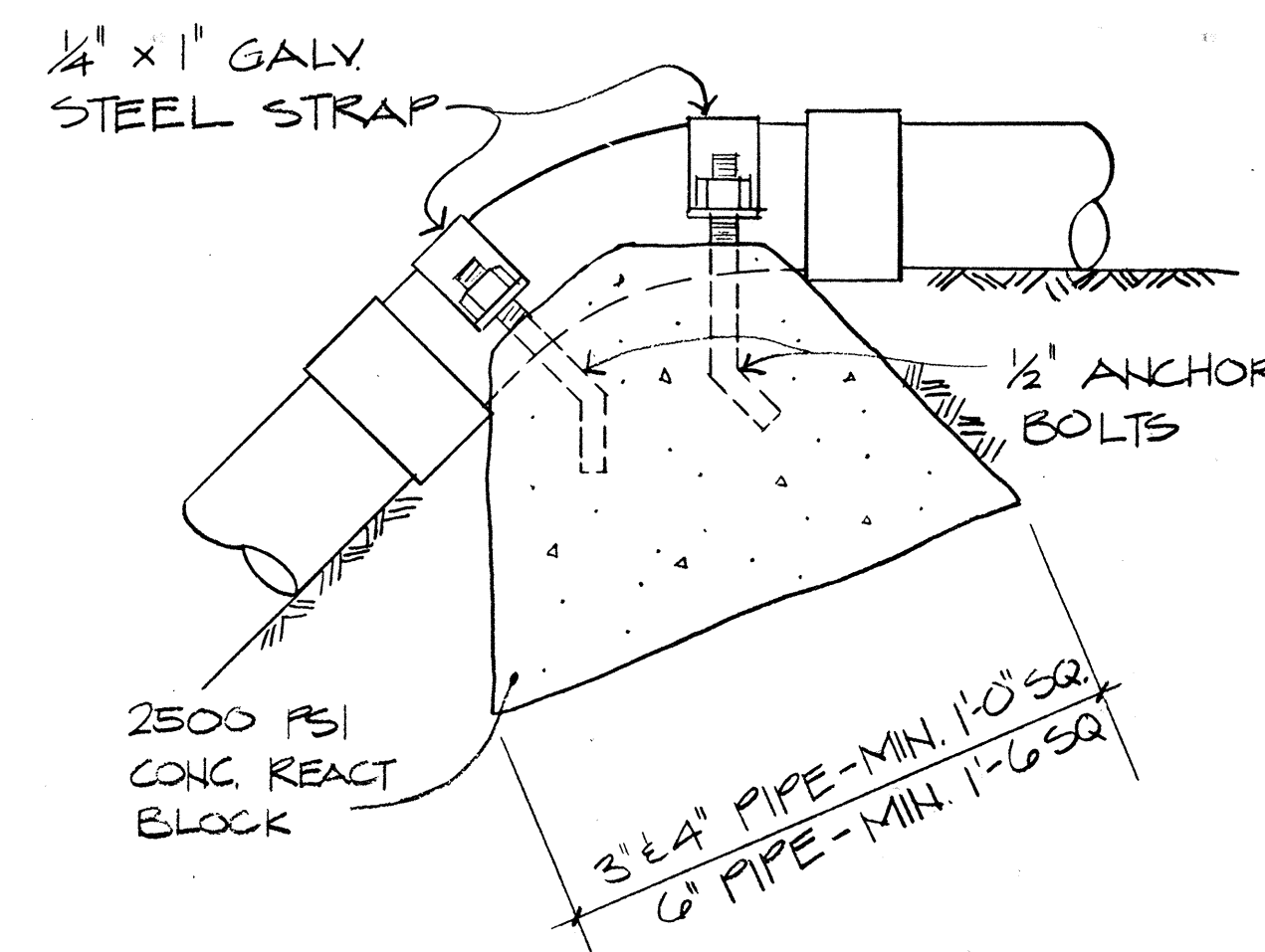


E GATE VALVE INSTALLATION
N.T.S.

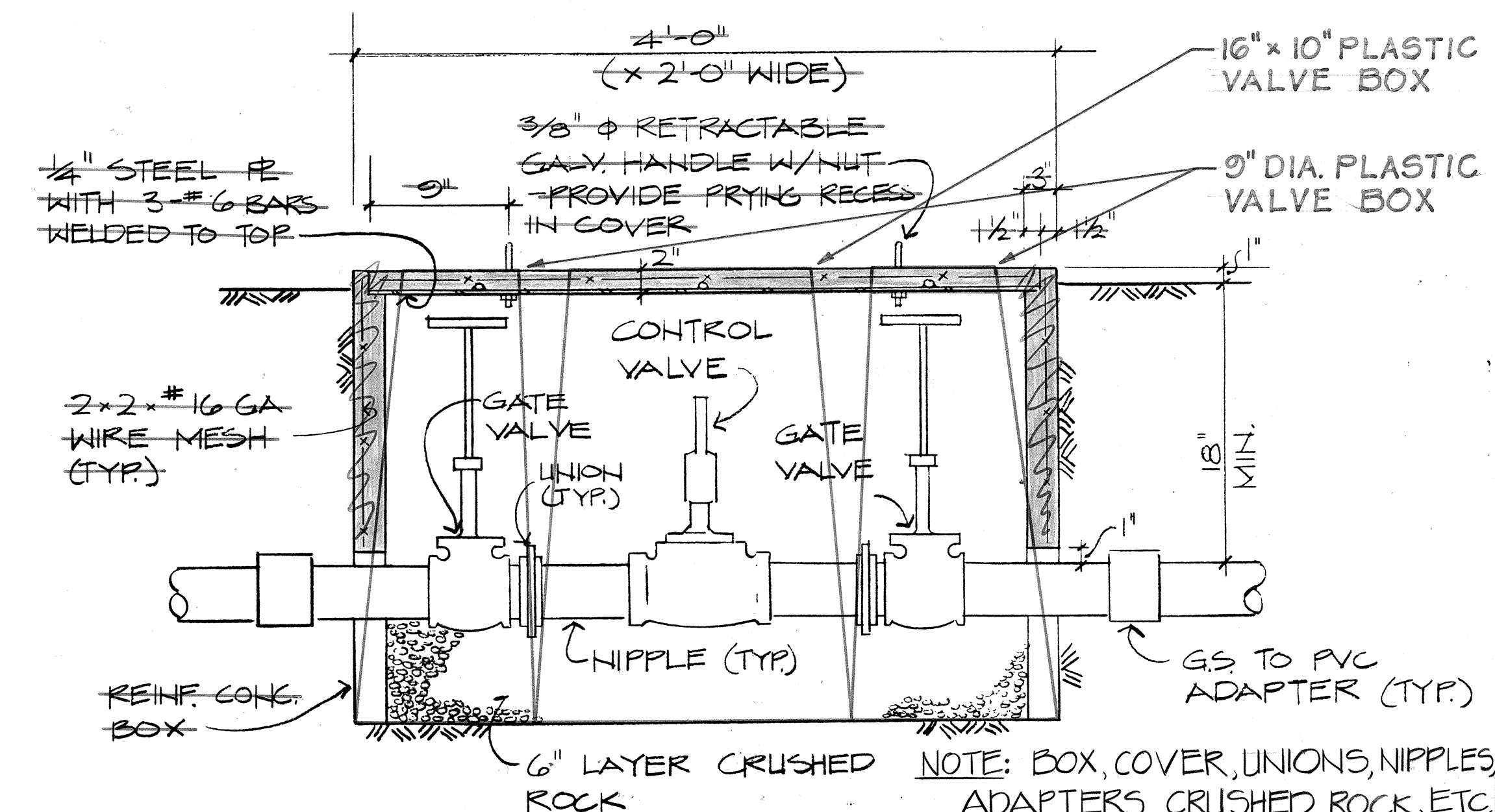


	*MINIMUM COVER
SPRINKLER LATERALS	18"
SPRINKLER MAINS	
4" AND SMALLER	24"
6"	30"
ELECTRICAL CONDUITS	24"
CONTROL WIRES	24"

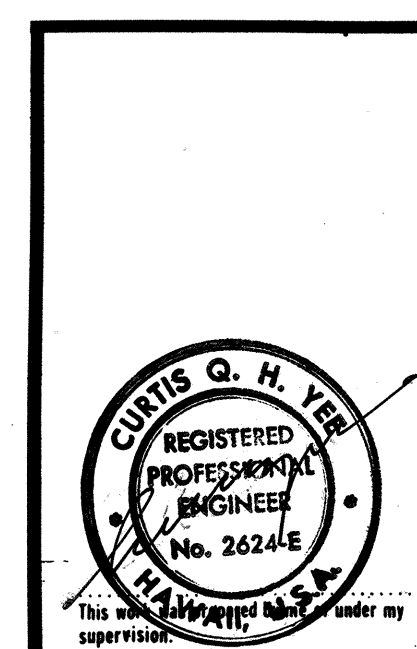
F TRENCH DETAIL
N.T.S.



C TYP. REACTION BLOCK @ ELL
N.T.S.

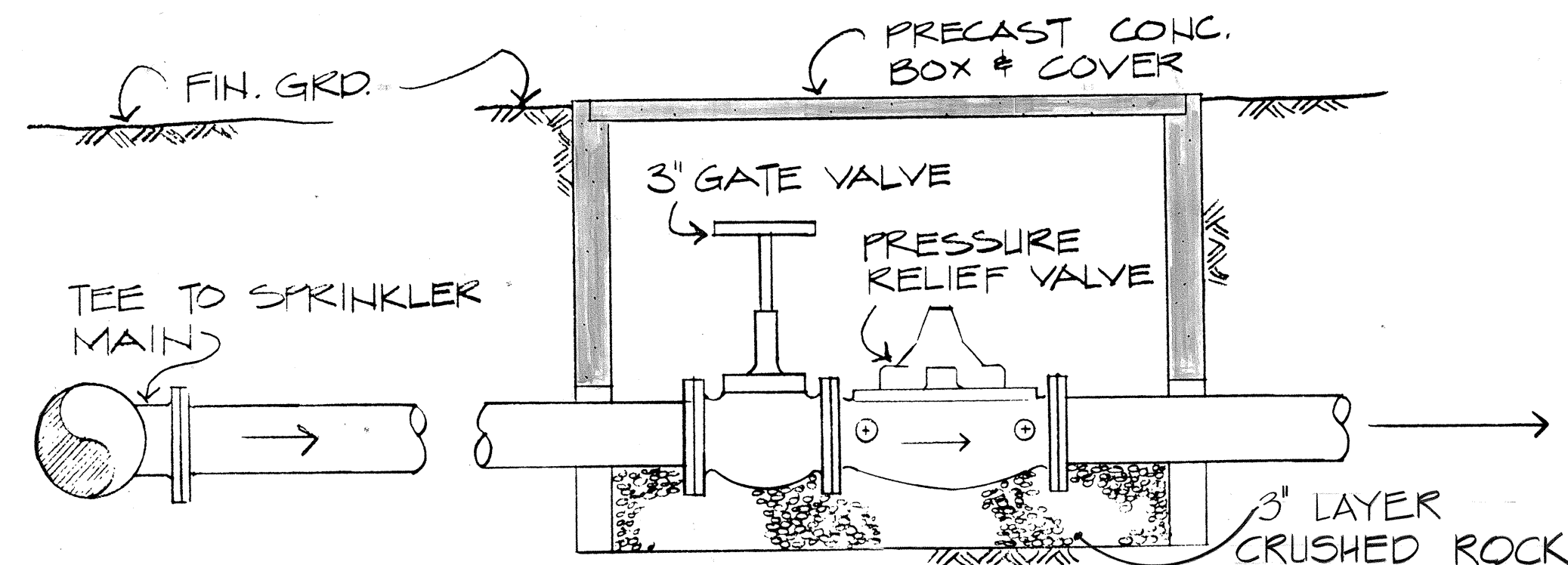


D AUTO. SPRINKLER CONTROL VALVE
N.T.S.

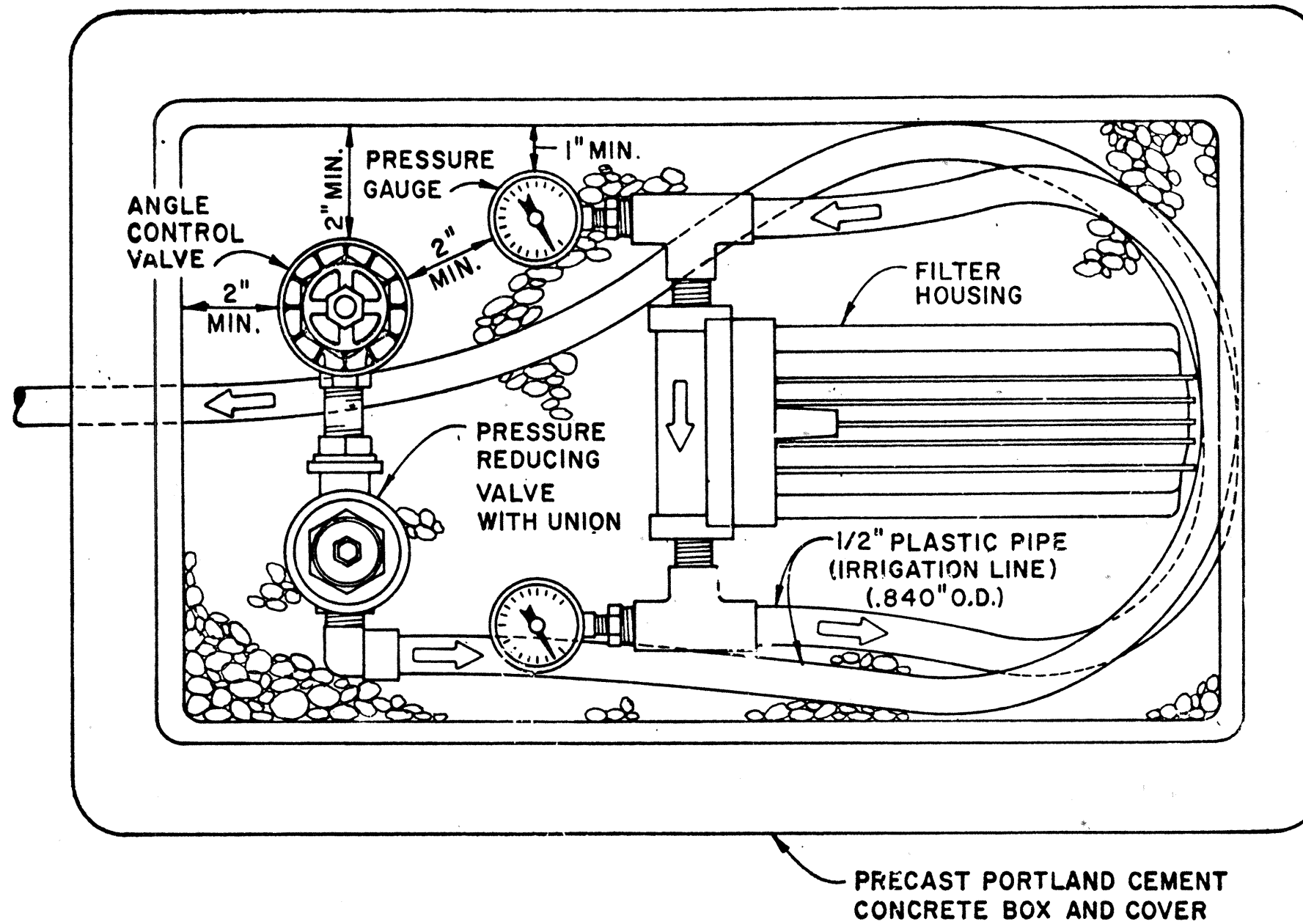


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROJECT NO. I-H2-1(17):6
WAIHAWA INTERCHANGE
LEILEHUA INTERCHANGE
PIPING DETAILS
SHEET No. 11 OF 22 SHEETS

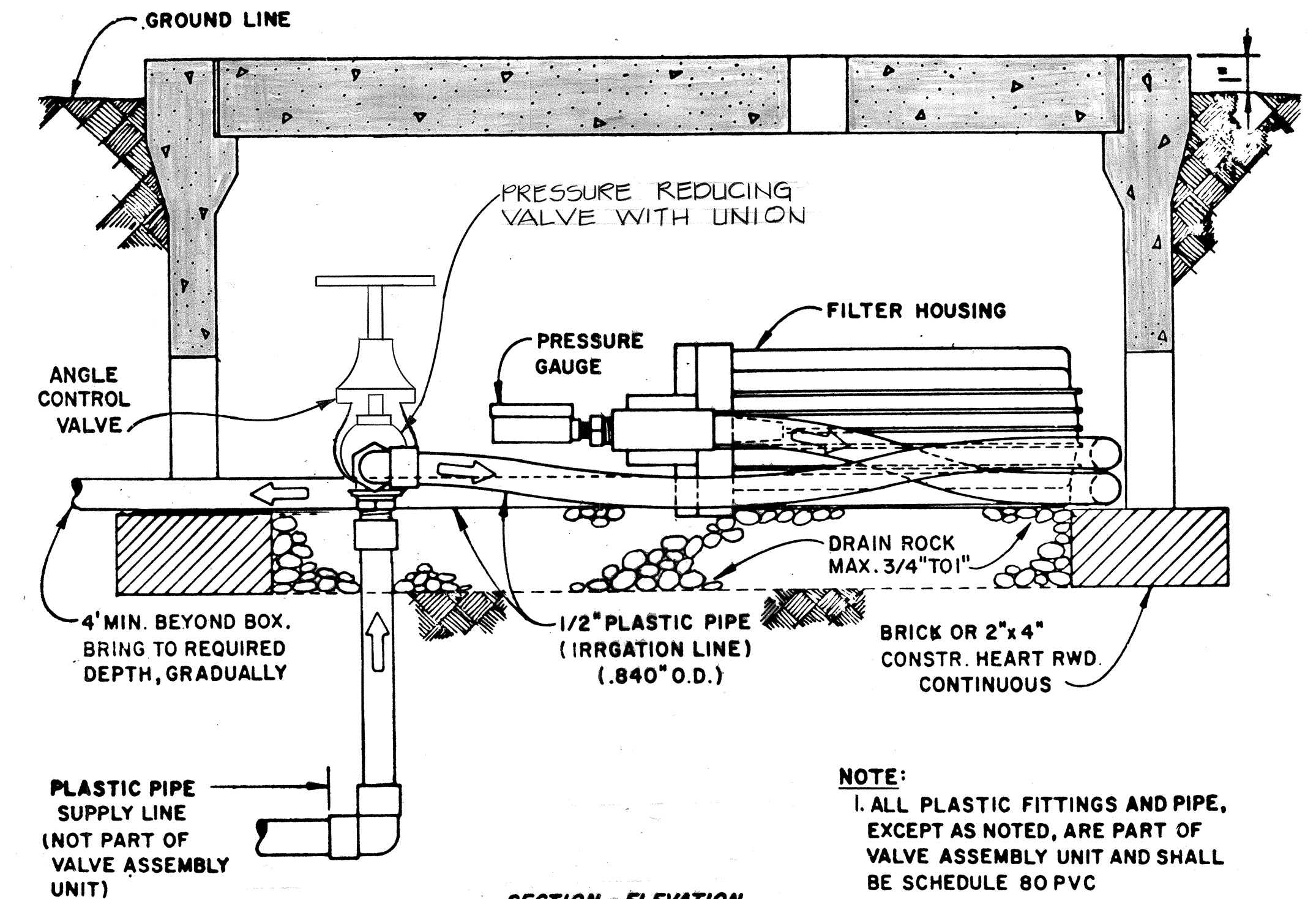
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-42-1(17):6	1976	21	31



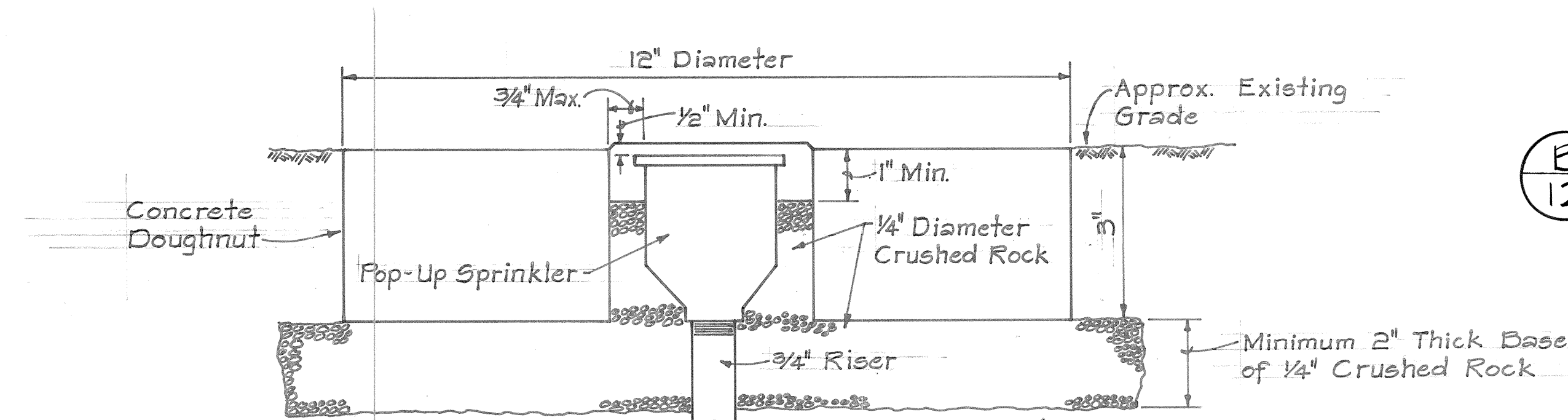
A
12
PRESSURE RELIEF VALVE ASSEMBLY
N.T.S.



B
12
VALVE ASSEMBLY UNIT
N.T.S.

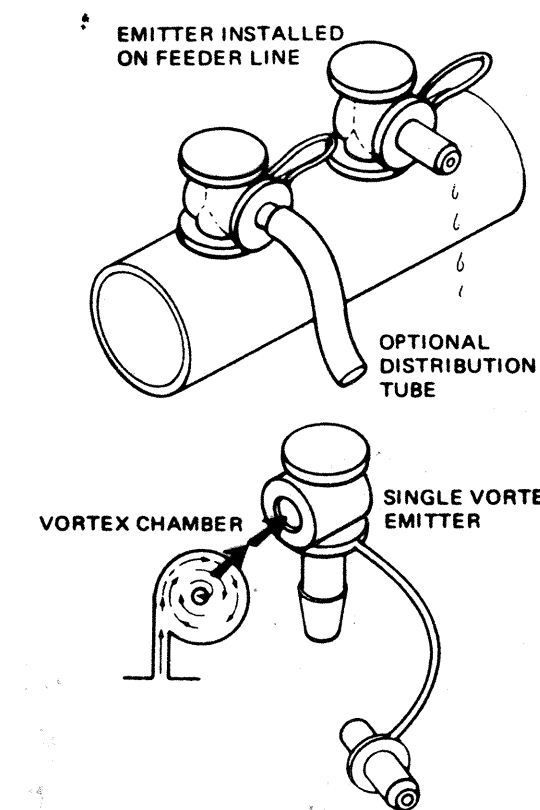


C
12
VALVE ASSEMBLY UNIT
N.T.S.

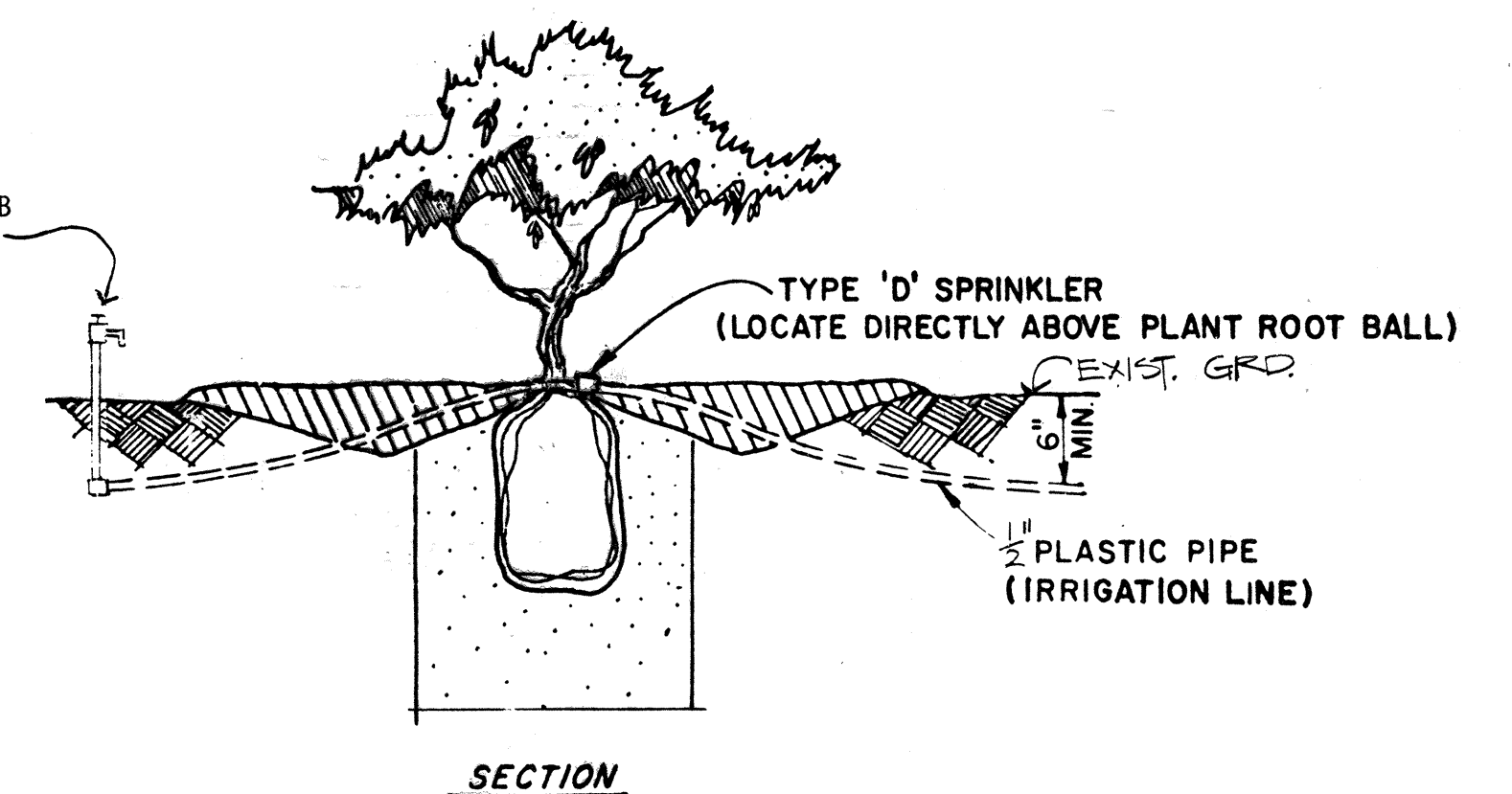


D
12
TYPICAL CONCRETE DOUGHNUT DETAILS
ROADWAY MEDIAN @ STA. 62+00± TO STA. 127+50±

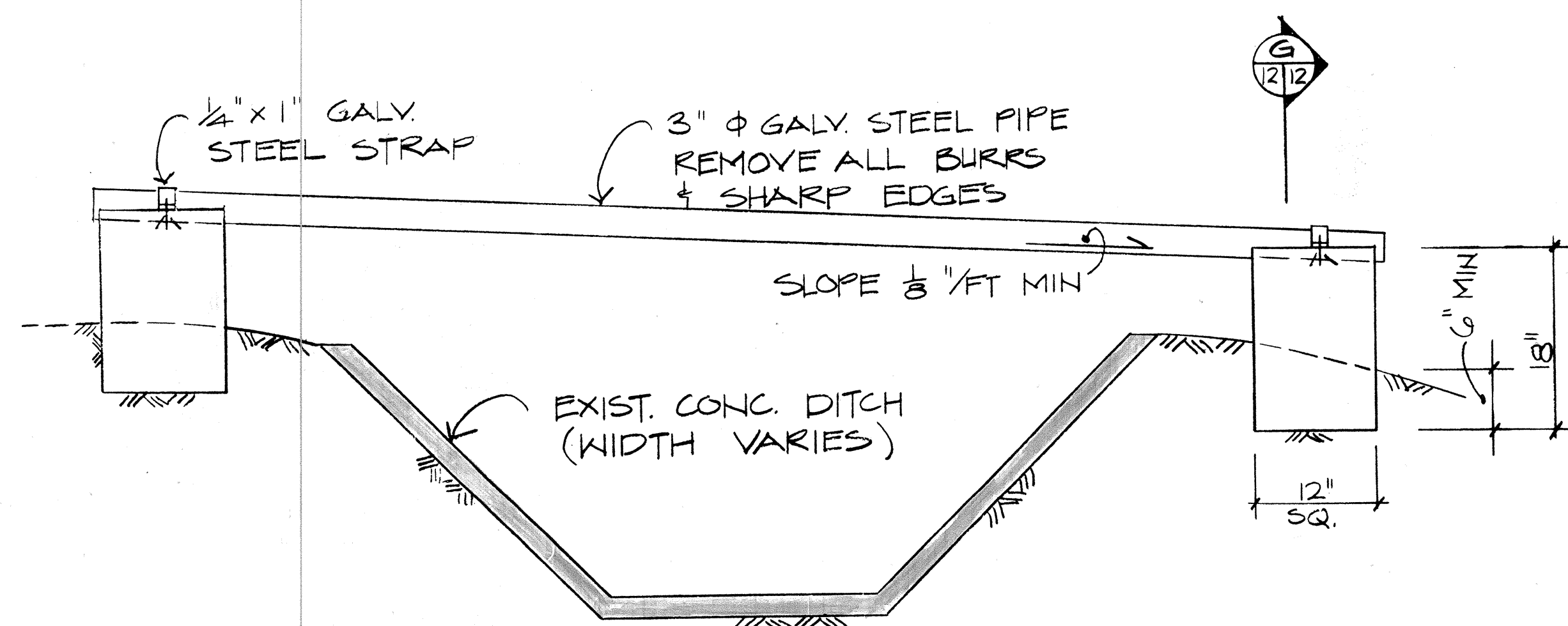
C.C.O. NO. 8
N.T.S.



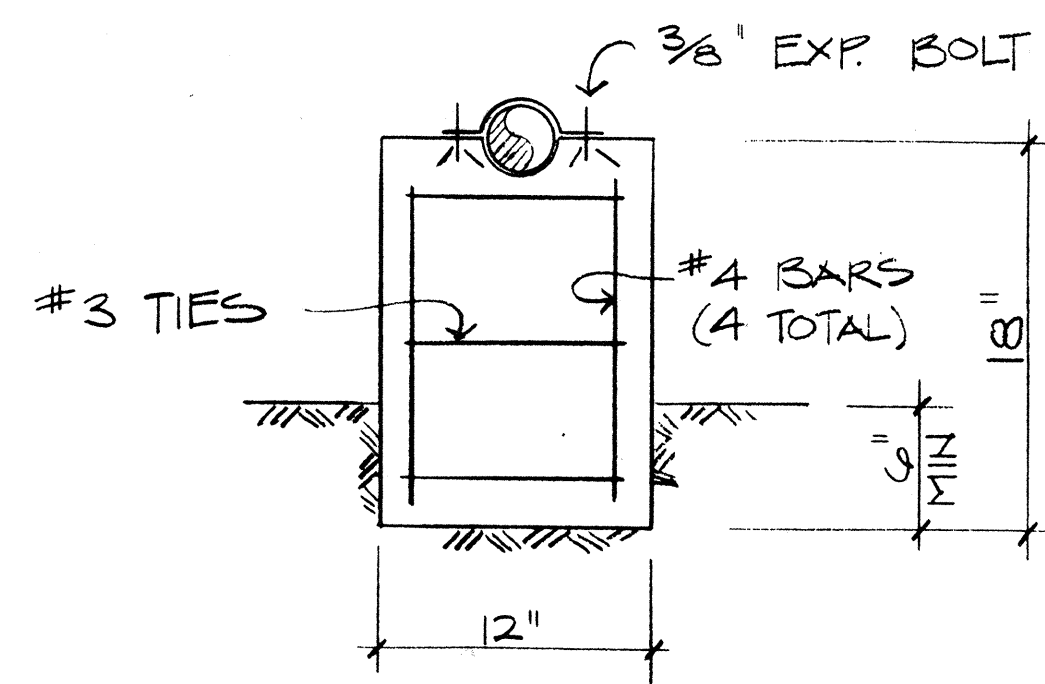
E
12
TYP. VORTEX EMITTER
N.T.S.



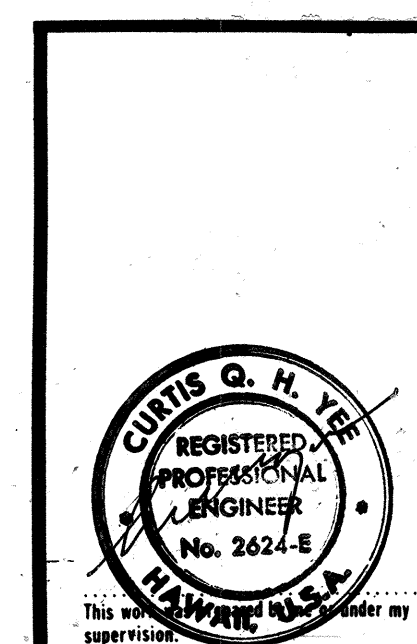
F
12
PLASTIC PIPE (IRRIGATION LINE)
N.T.S.



G
12
DRAINAGE DITCH CROSSING DTL. (TYP.)
N.T.S.



H
12
SECTION
N.T.S.

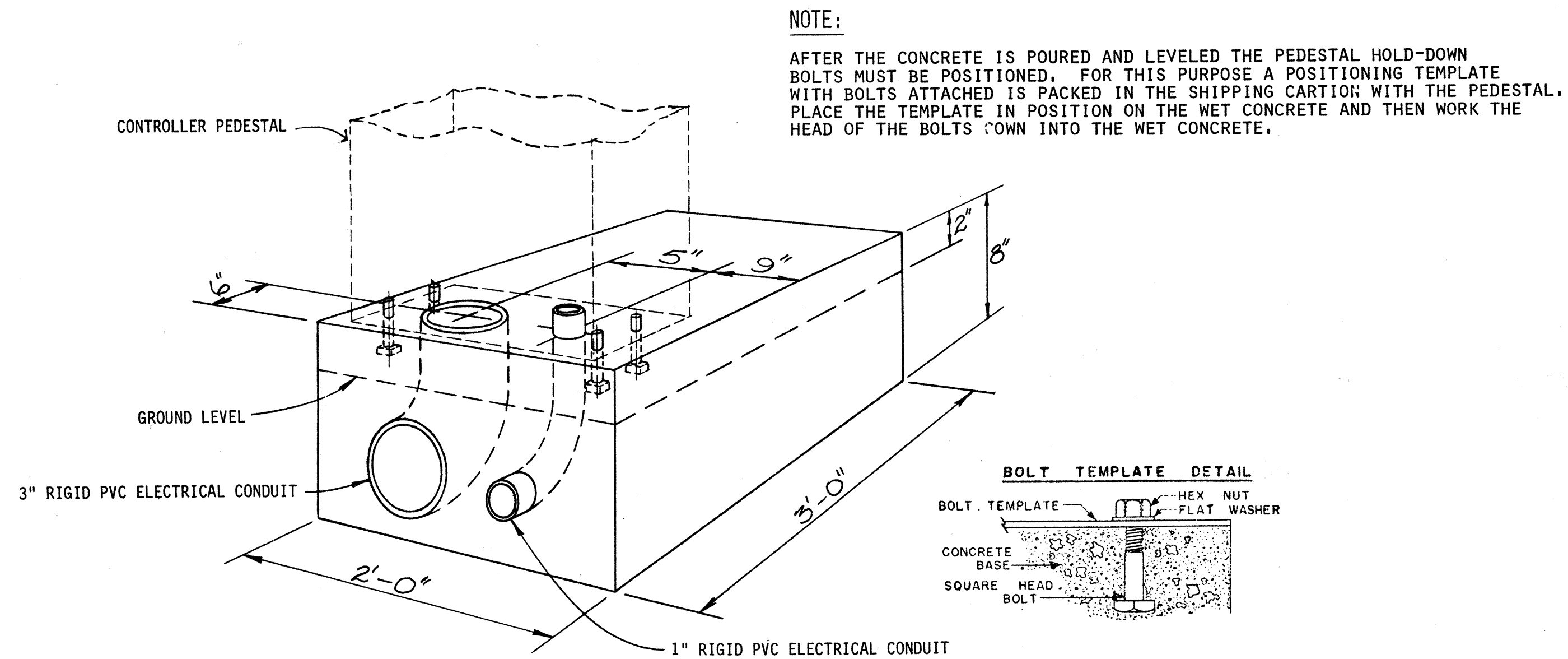


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROJECT NO. I-42-1(17):6
WAHIAWA INTERCHANGE
LEILEHUA INTERCHANGE
DETAILS

SHEET No. 12 OF 22 SHEETS

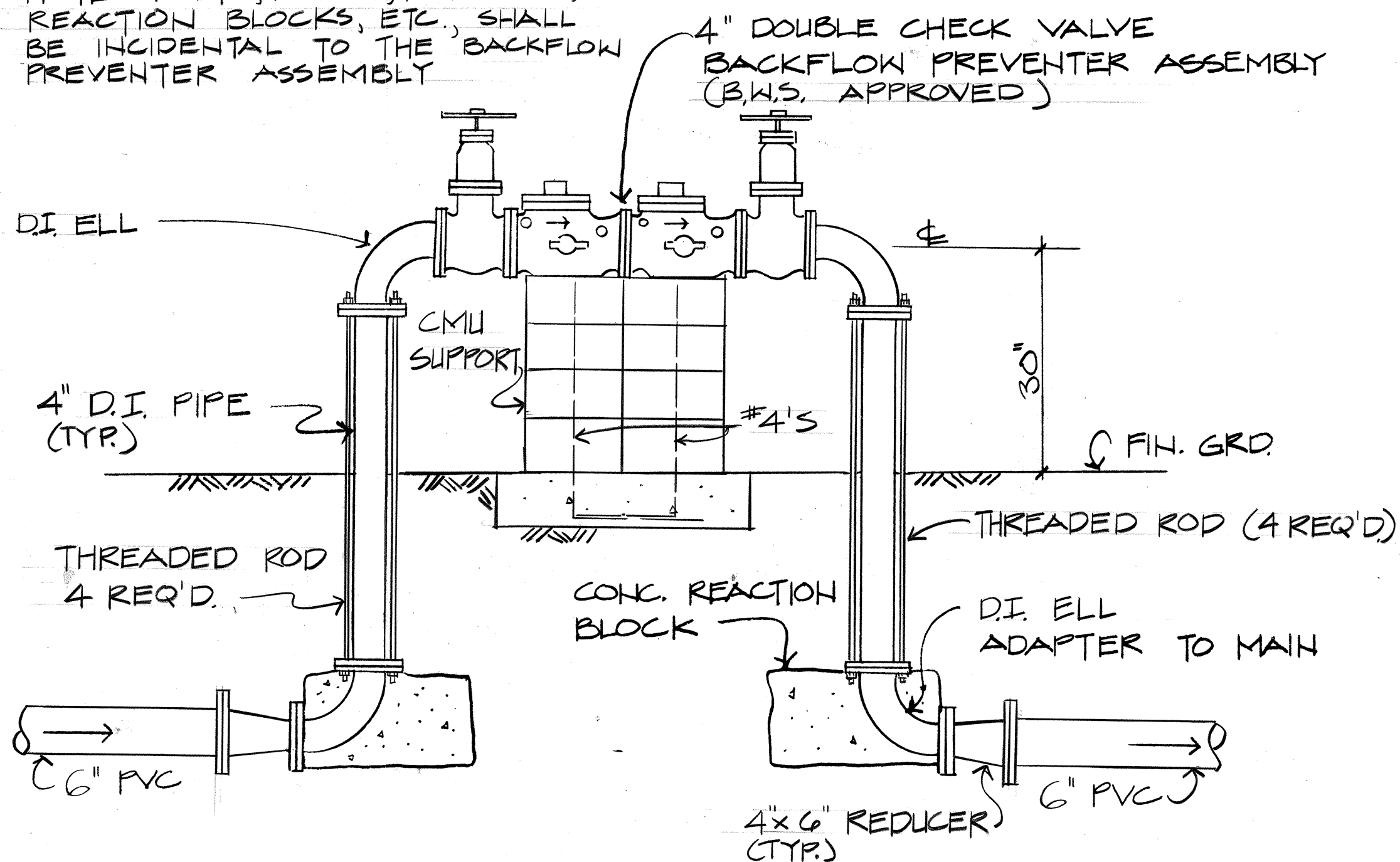
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	22	31

DATE	REVISION
1/11/87	Revised Backflow Preventer Assembly detail - per addendum No. 1.

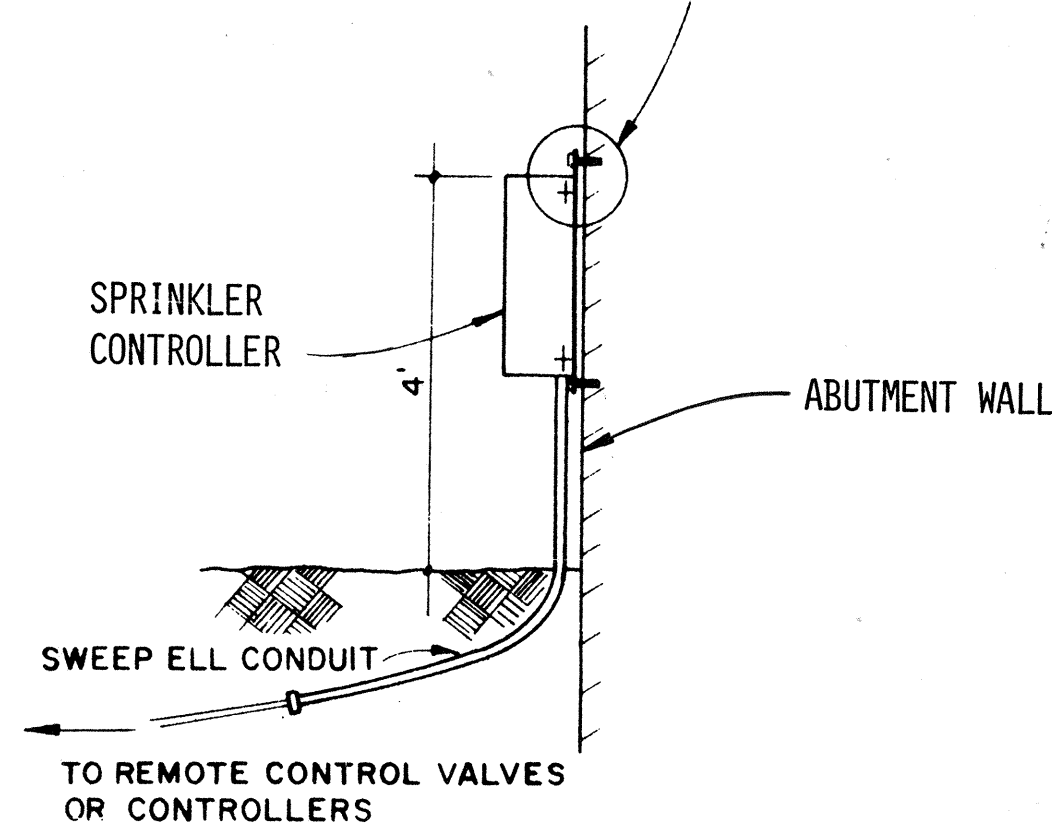
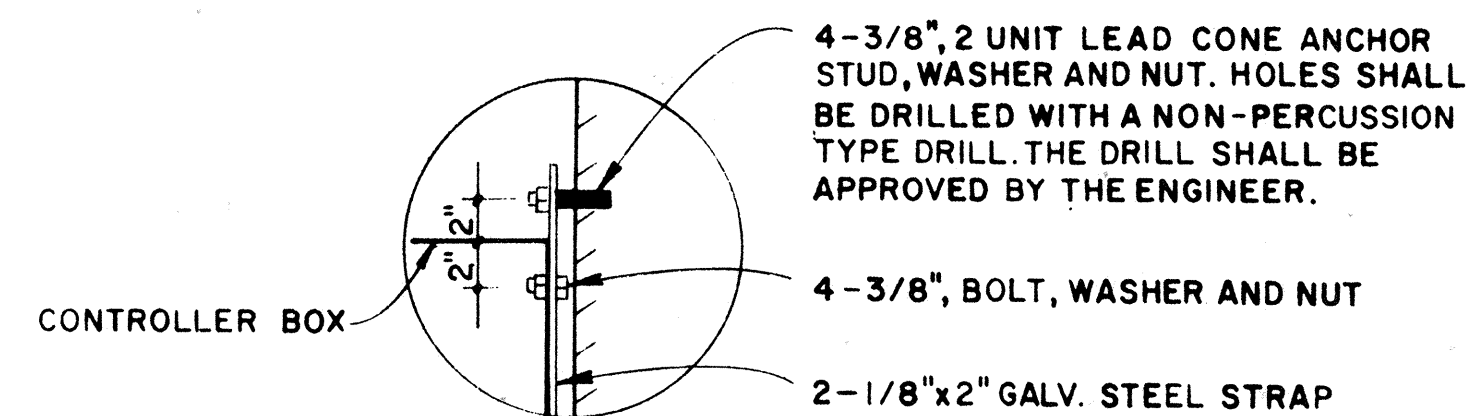


A
13
DETAIL
N.T.S.

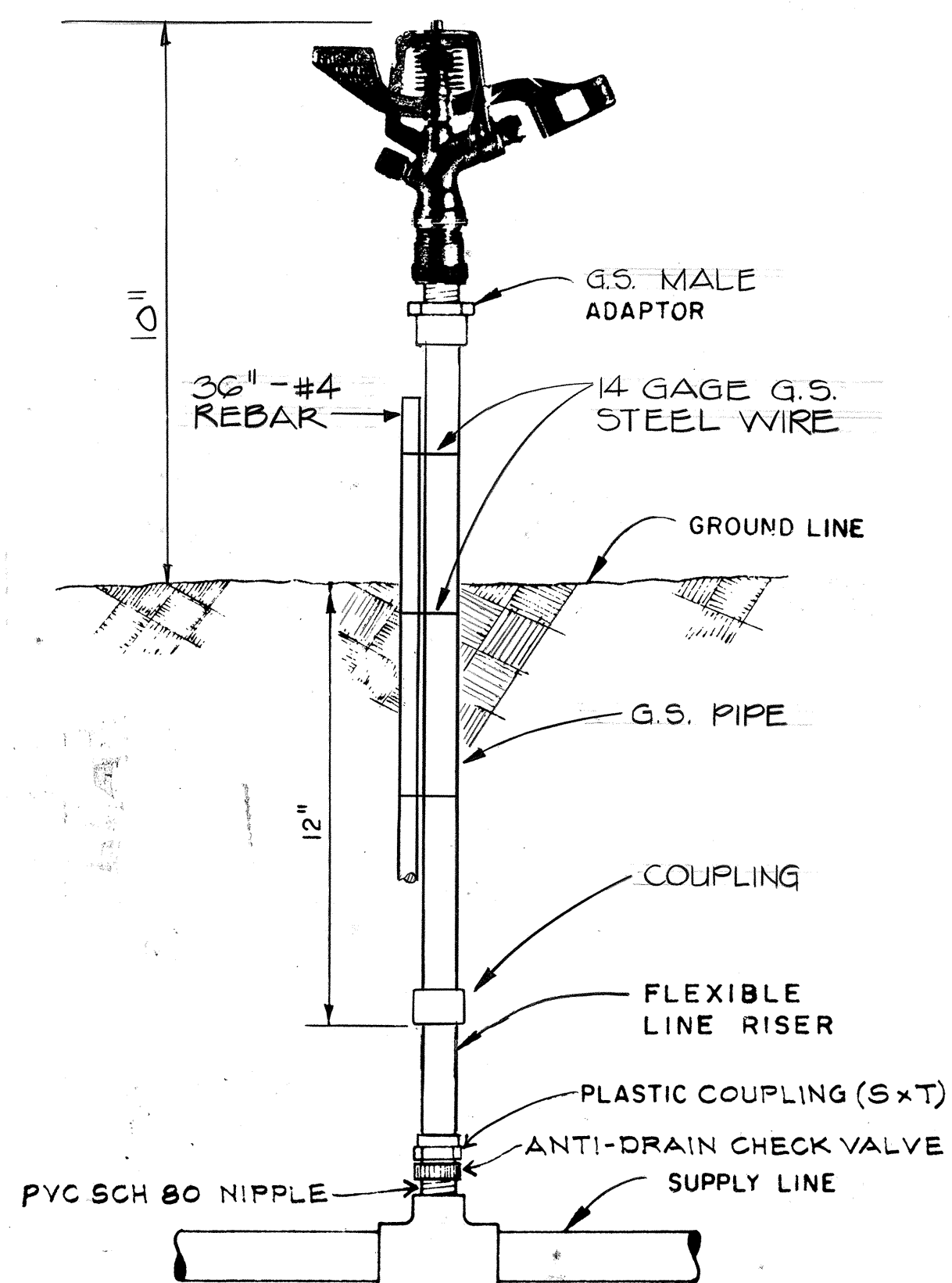
NOTE: BOLTS, BENDS, REDUCERS, REACTION BLOCKS, ETC., SHALL BE INCIDENTAL TO THE BACKFLOW PREVENTER ASSEMBLY



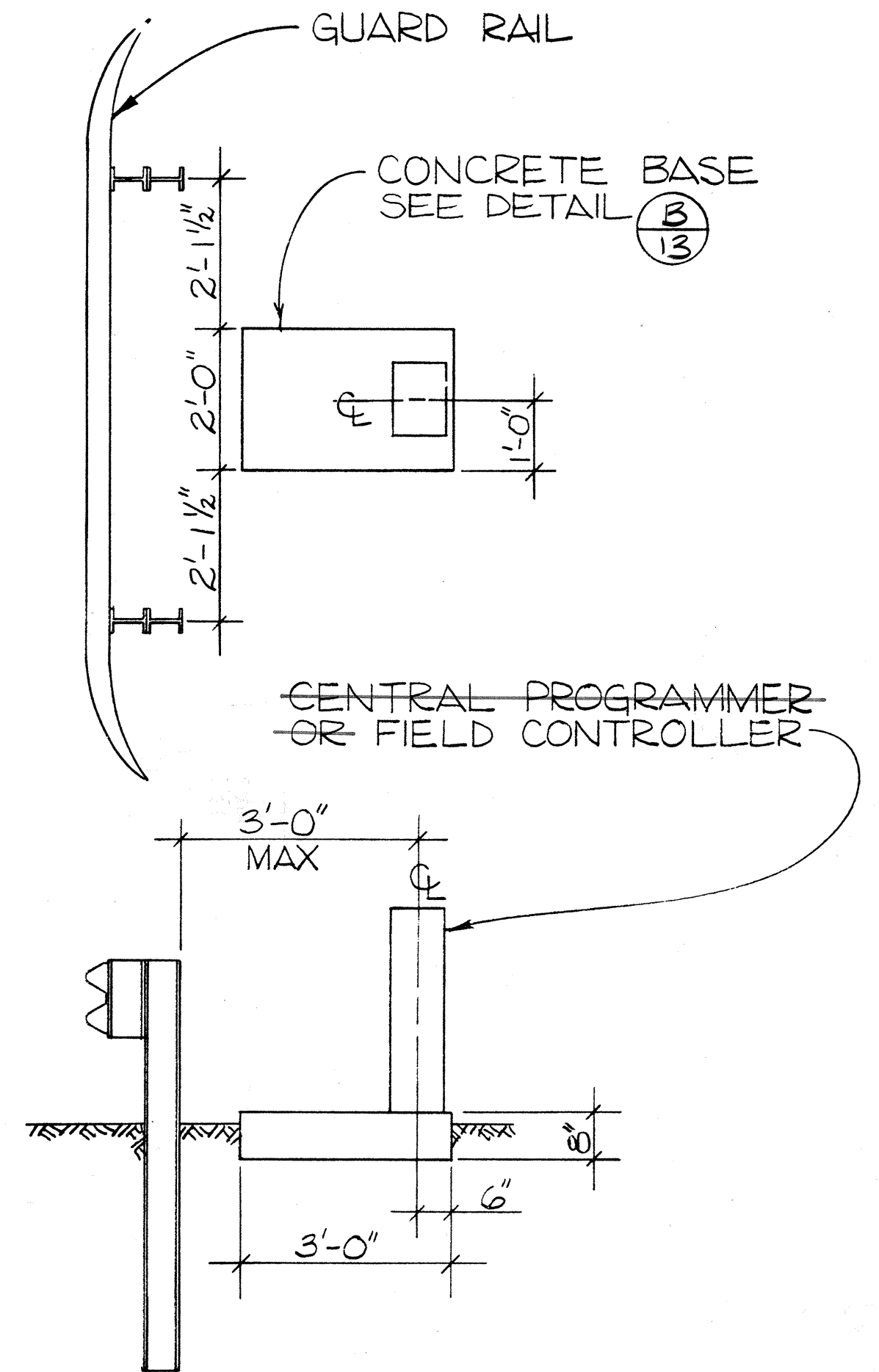
E
13
BACKFLOW PREVENTER ASSEMBLY
N.T.S.



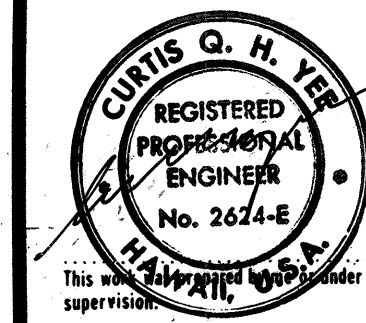
D
13
FIELD CONTROLLERS ANCHORED TO WALL
N.T.S.



C
13
DETAIL-RISER
N.T.S.



B
13
DETAIL - TYP.
SCALE: 1/2" = 1'-0"

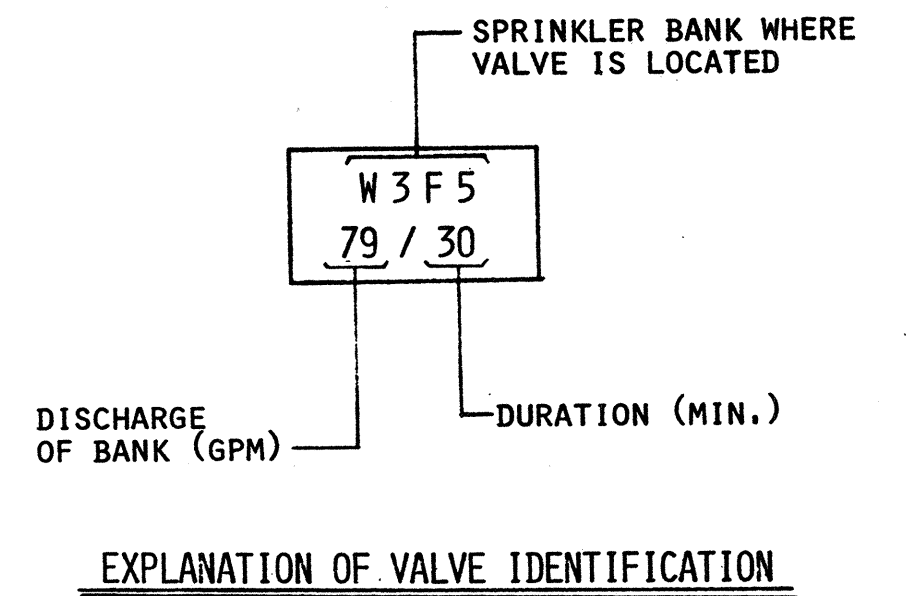
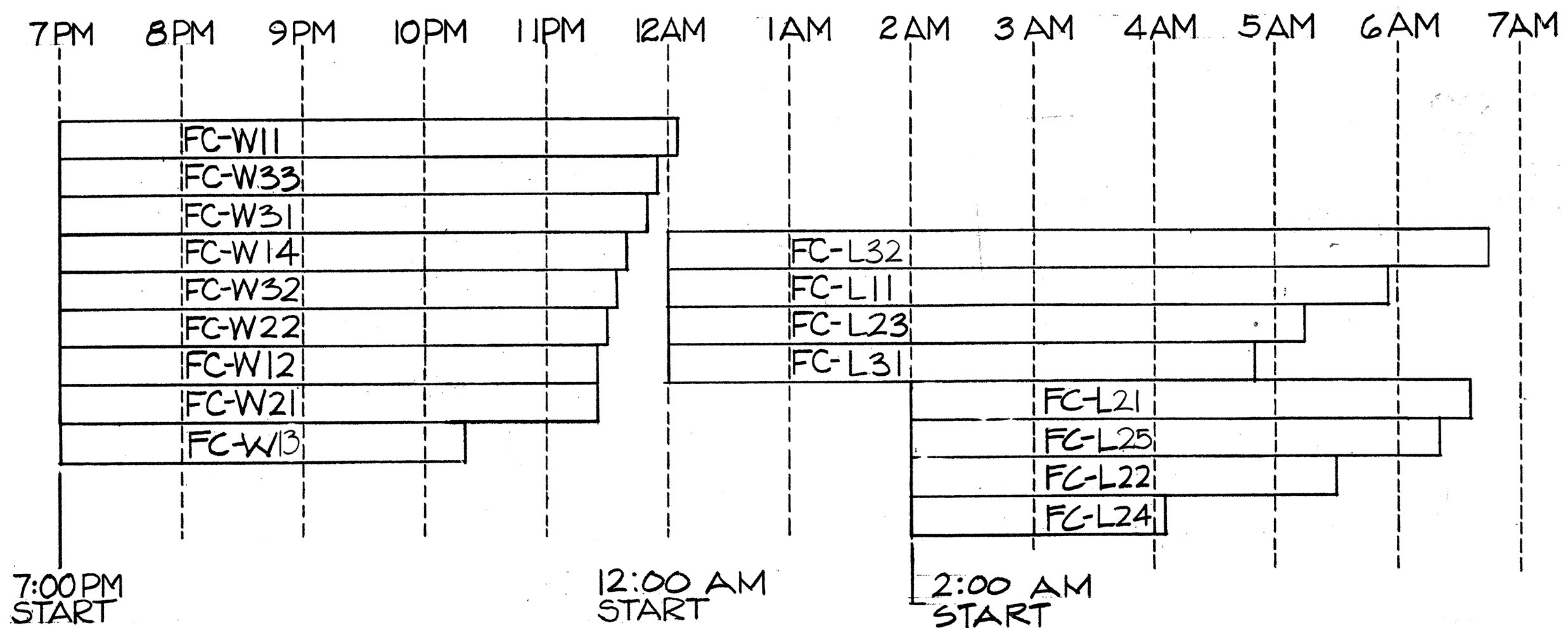
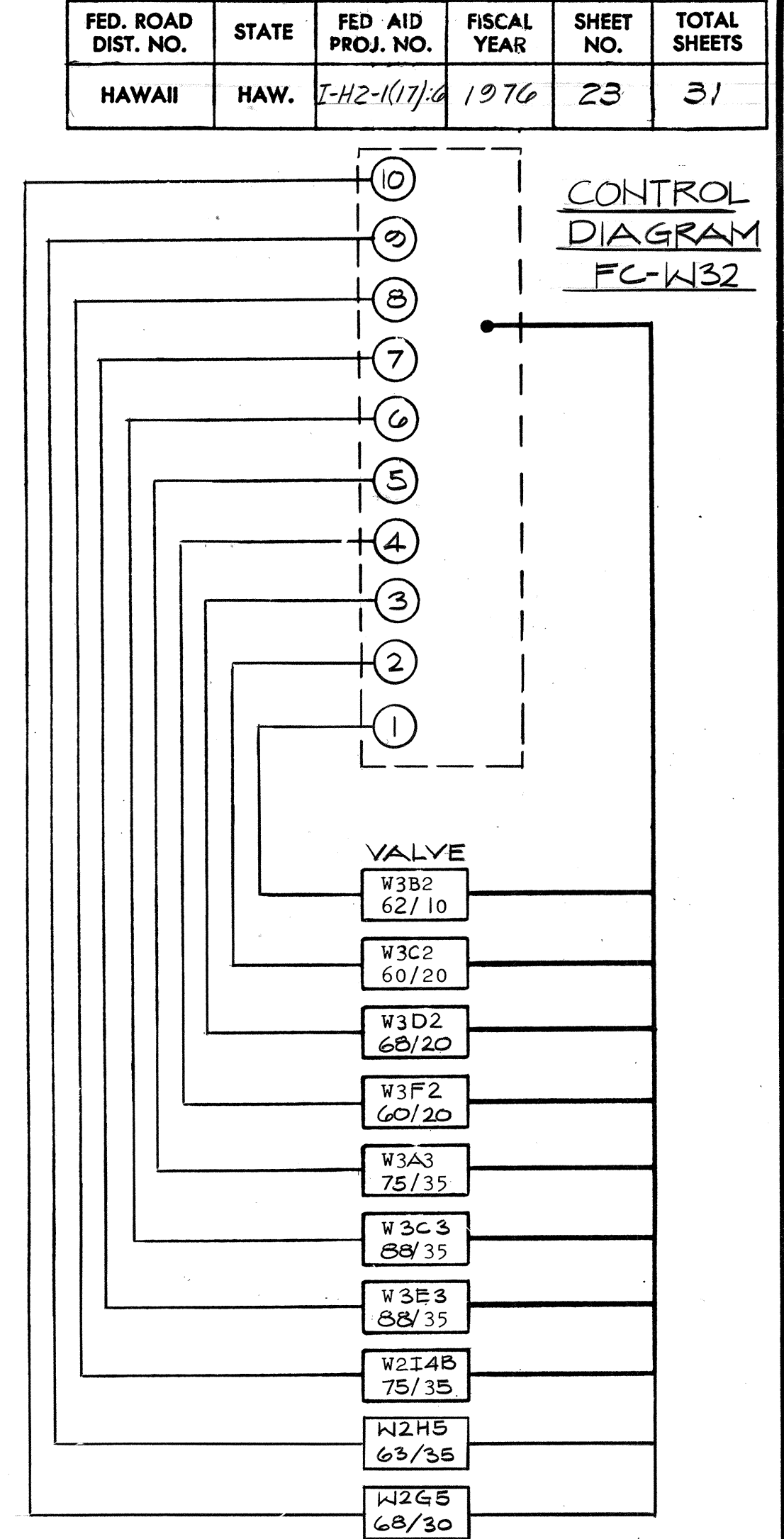
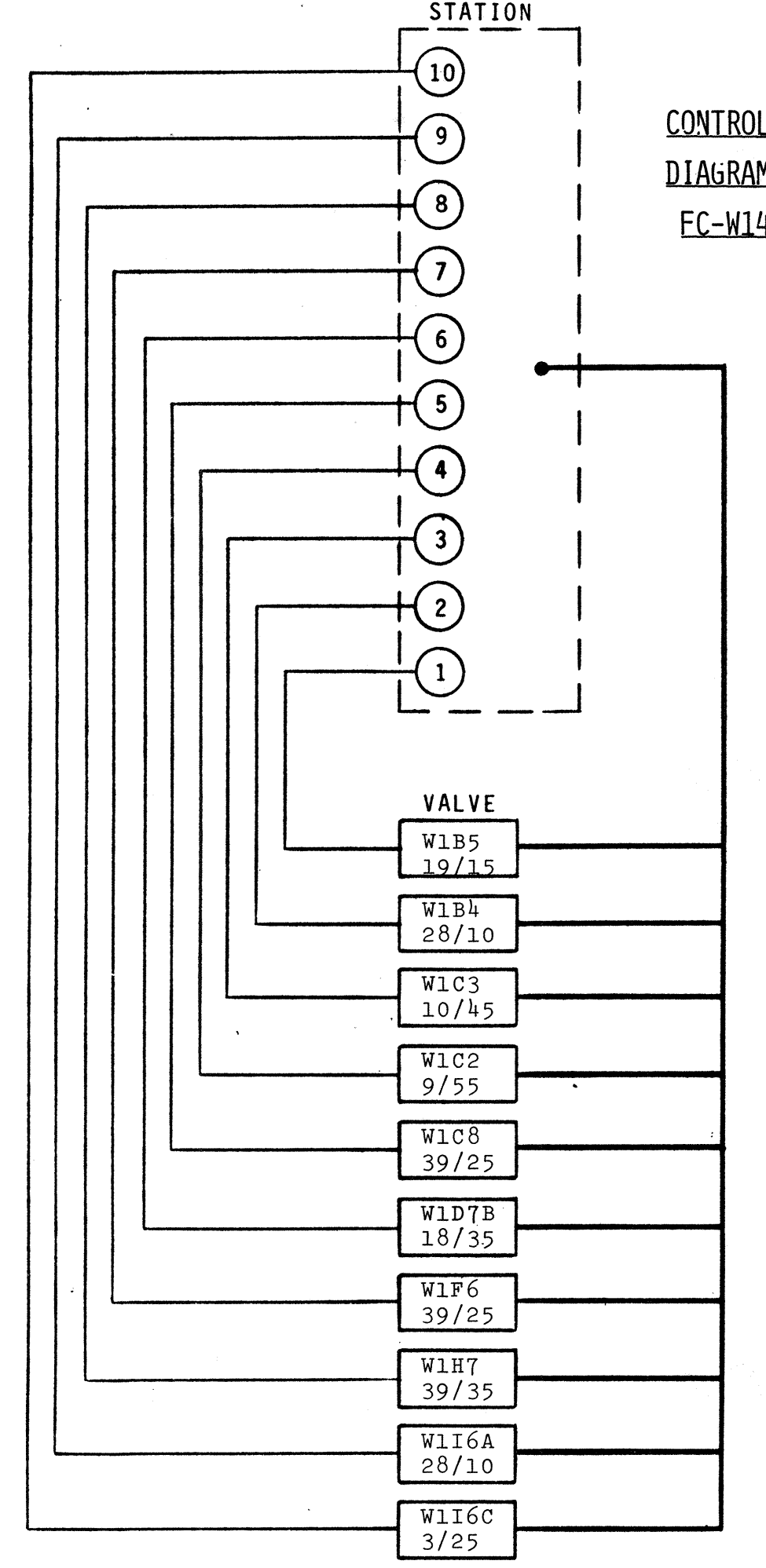
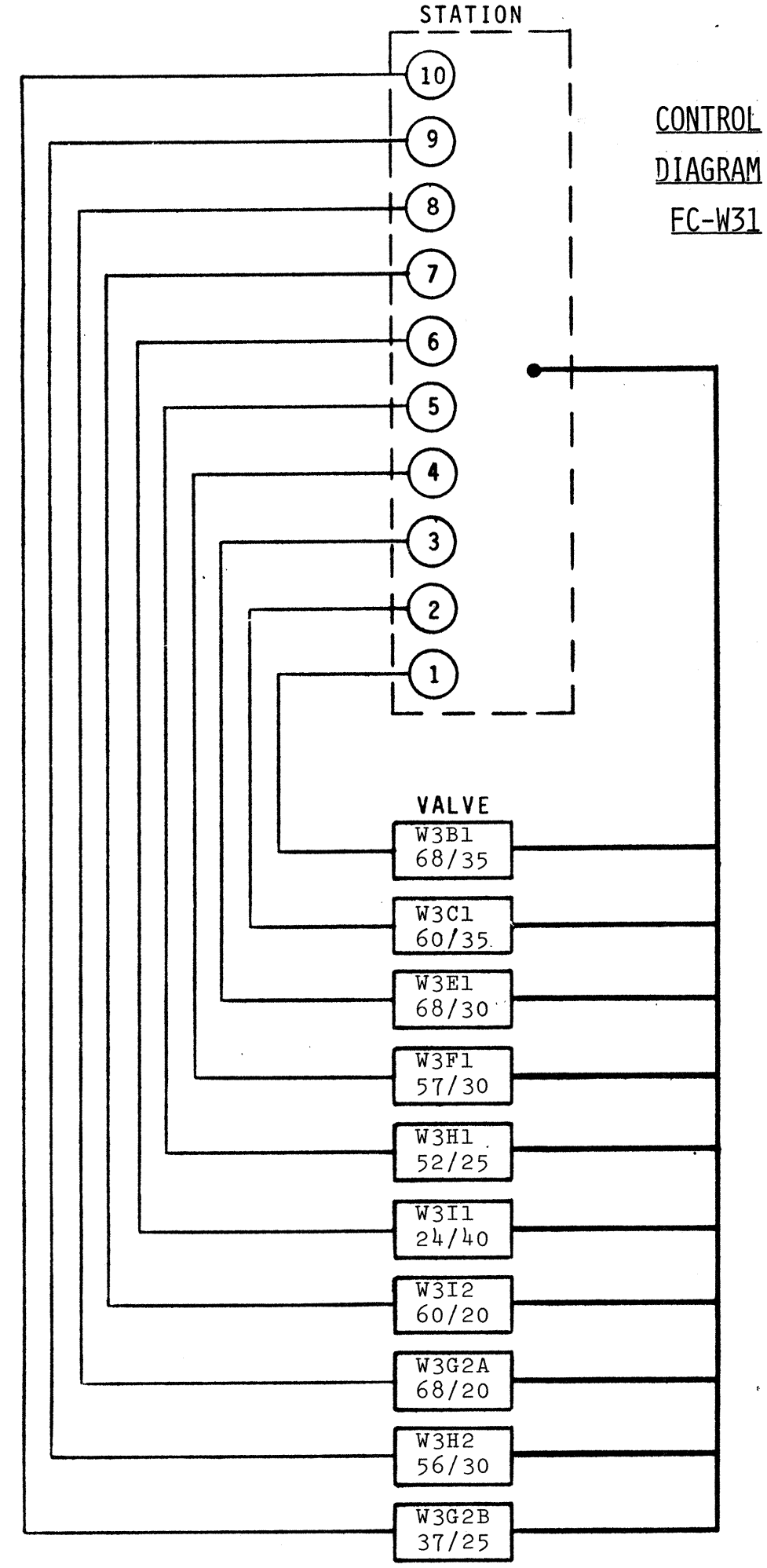
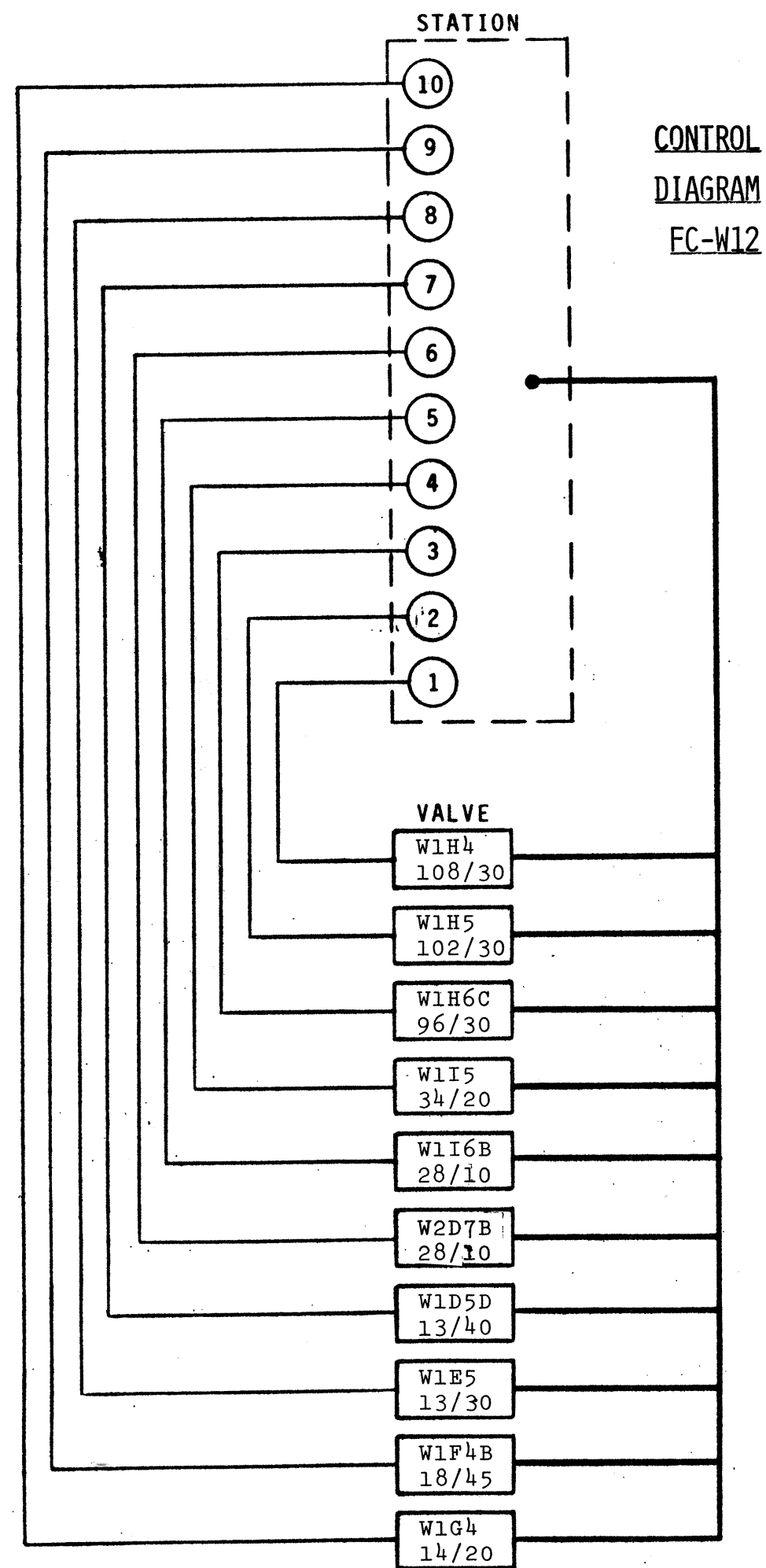
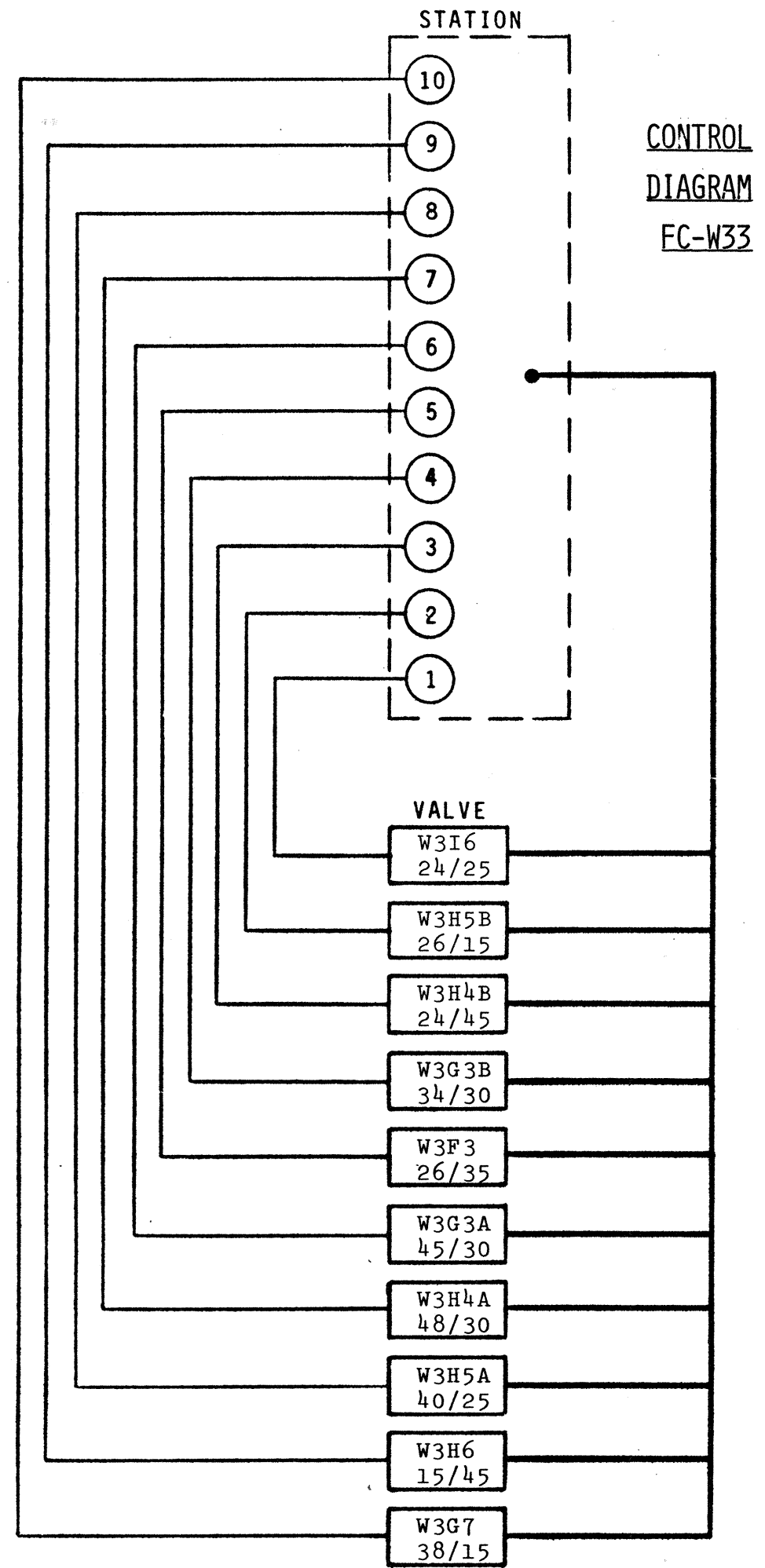
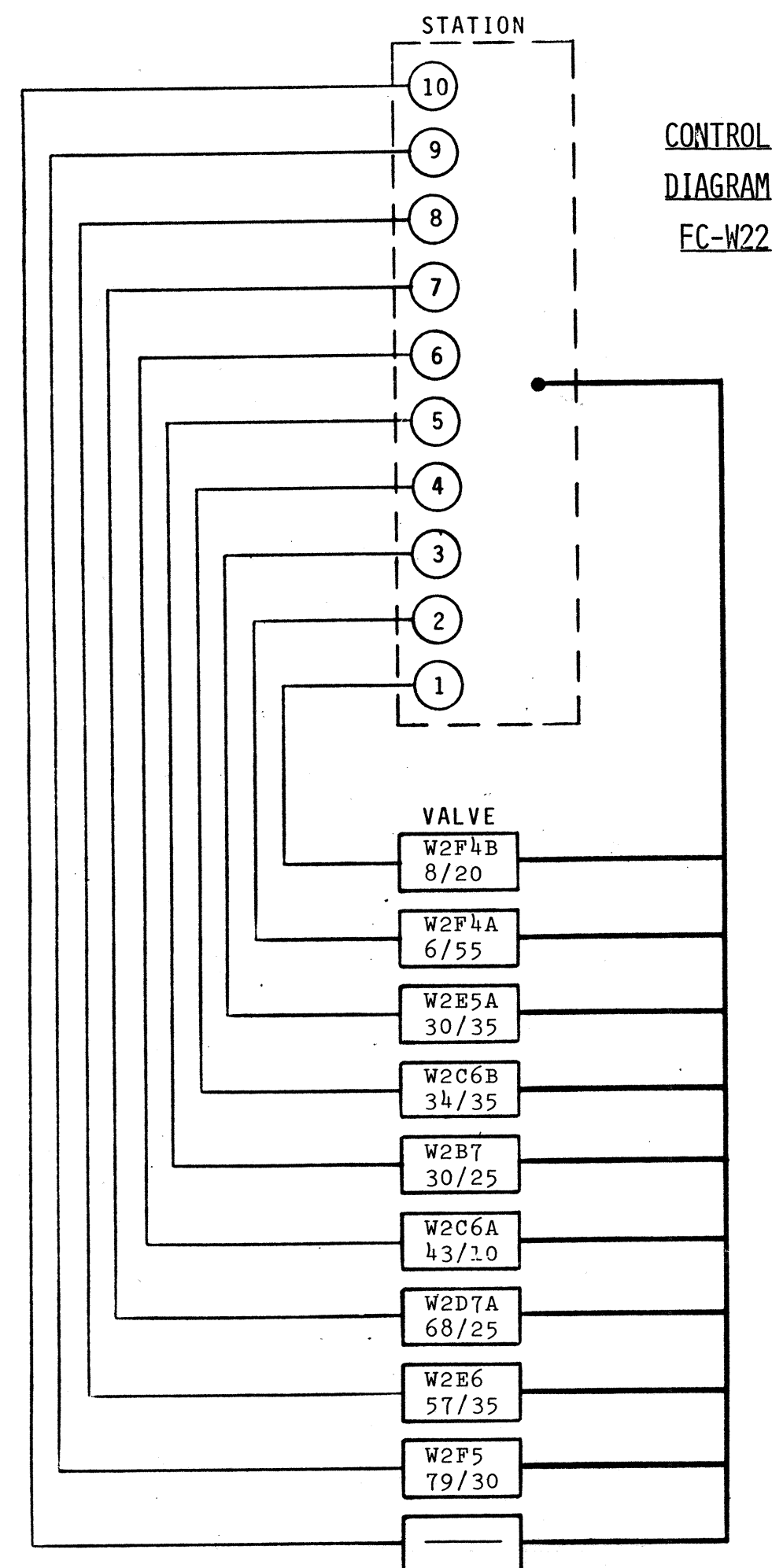
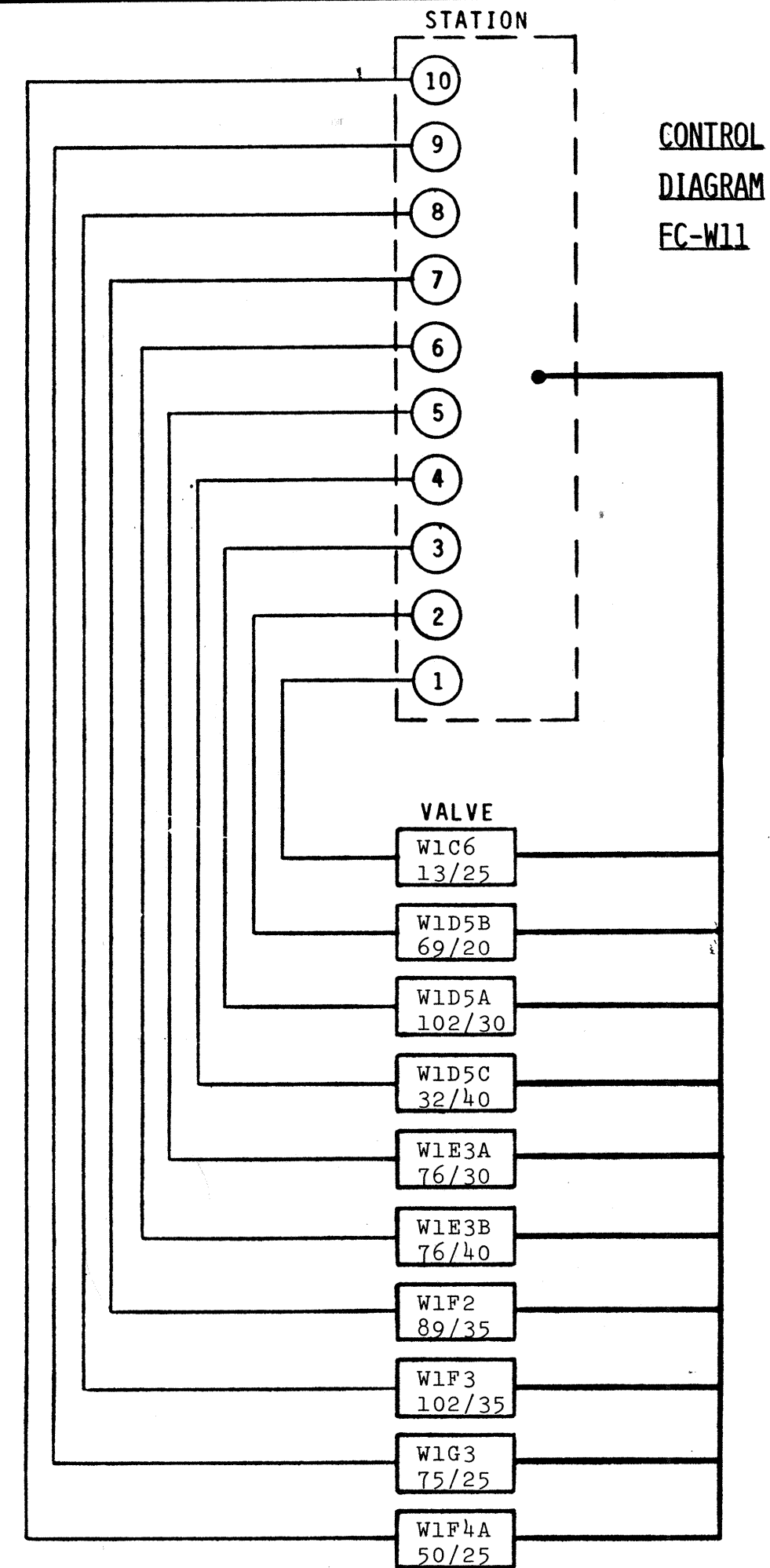


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROJECT NO. I-H2-1(17):6
WAHIAWA INTERCHANGE
LEILEHUA INTERCHANGE
DETAILS

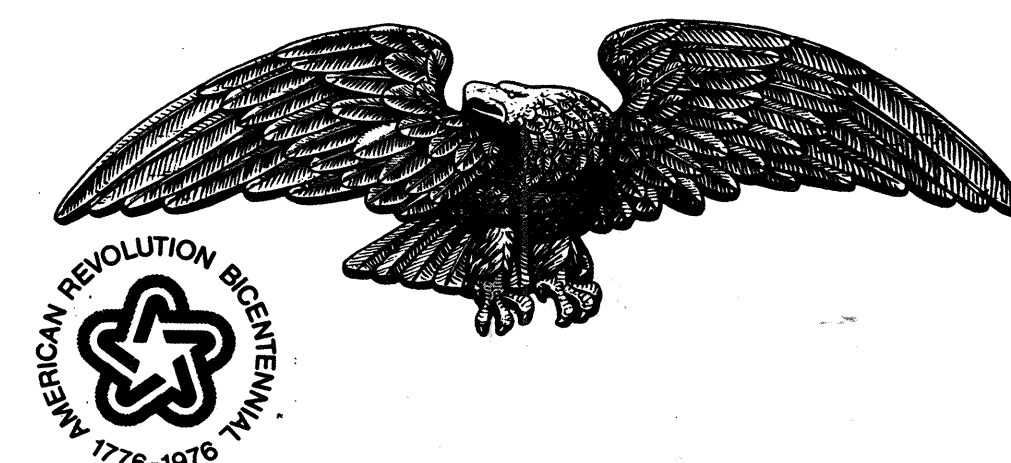
SHEET No. 13 OF 25 SHEETS

ADD. 22

DATE	11/10/76
DESIGNED BY	FC-W11
TRACED BY	FC-W11
QUANTITIES BY	FC-W11
CHECKED BY	FC-W11
ORIGINAL PLAN	FC-W11
NOTE BOOK	FC-W11
No.	FC-W11



DATE	11/10/76
REVISION	Revised irrigation schedule for FC-L32-per addendum No. 1



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

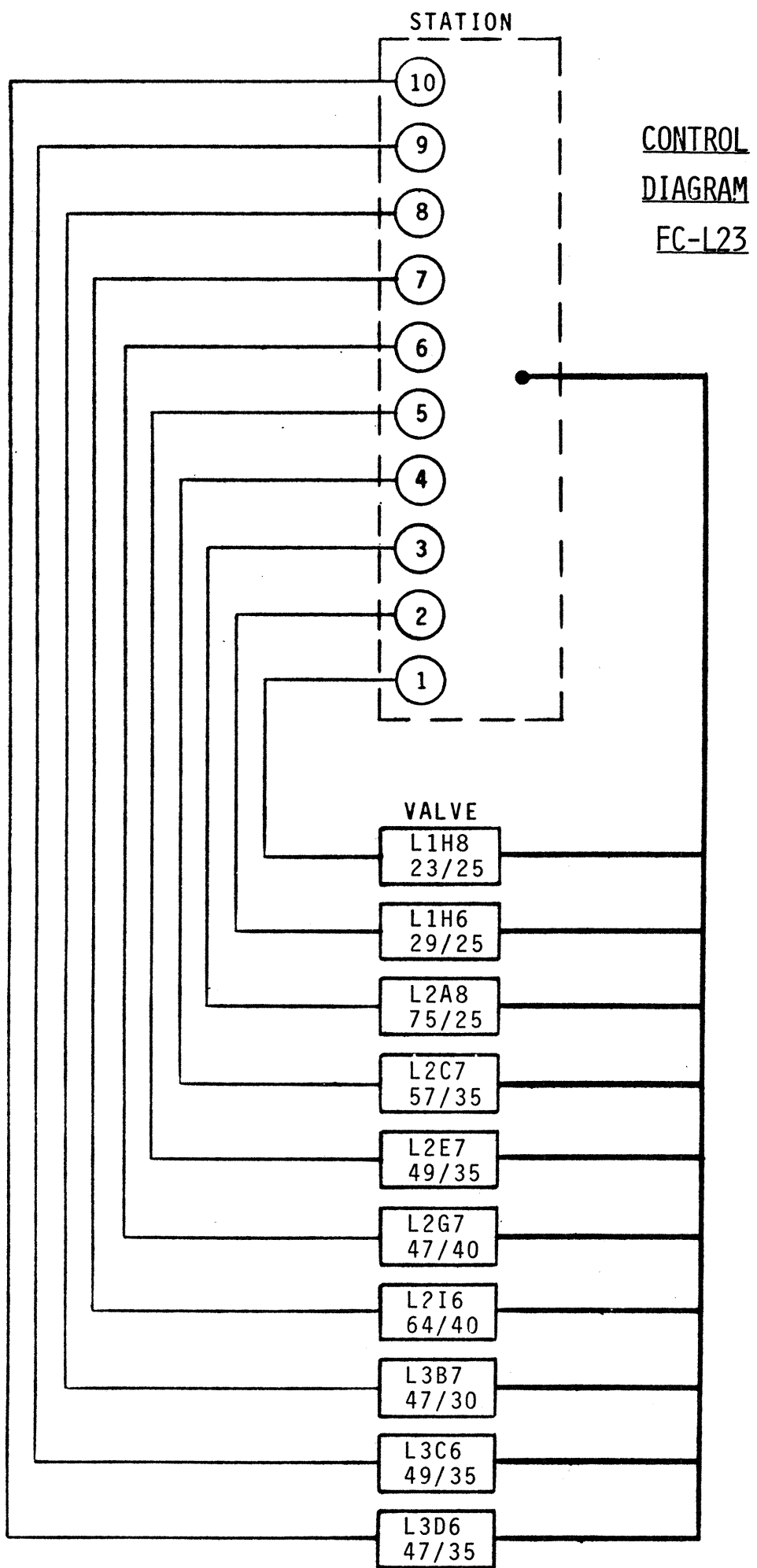
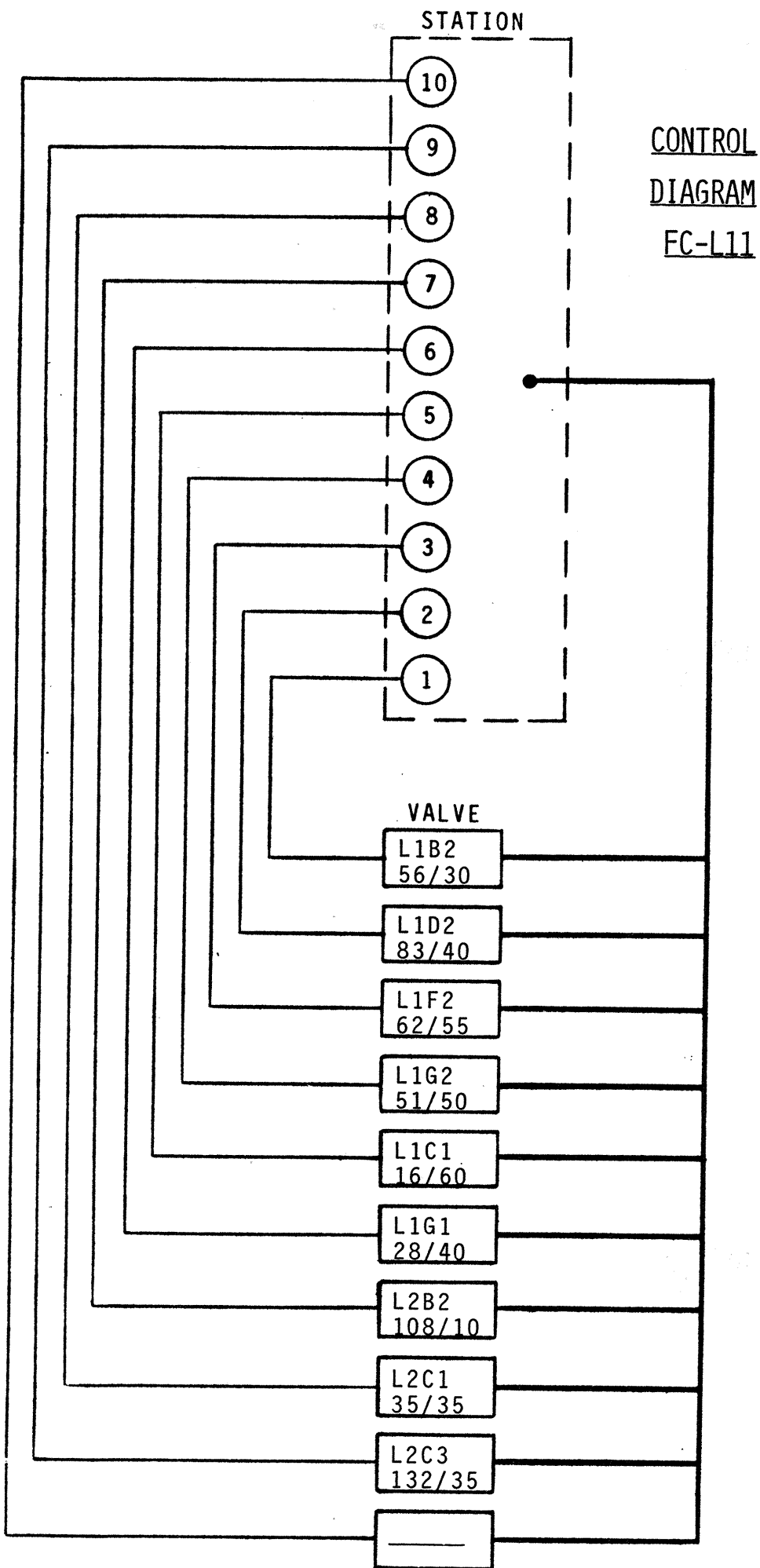
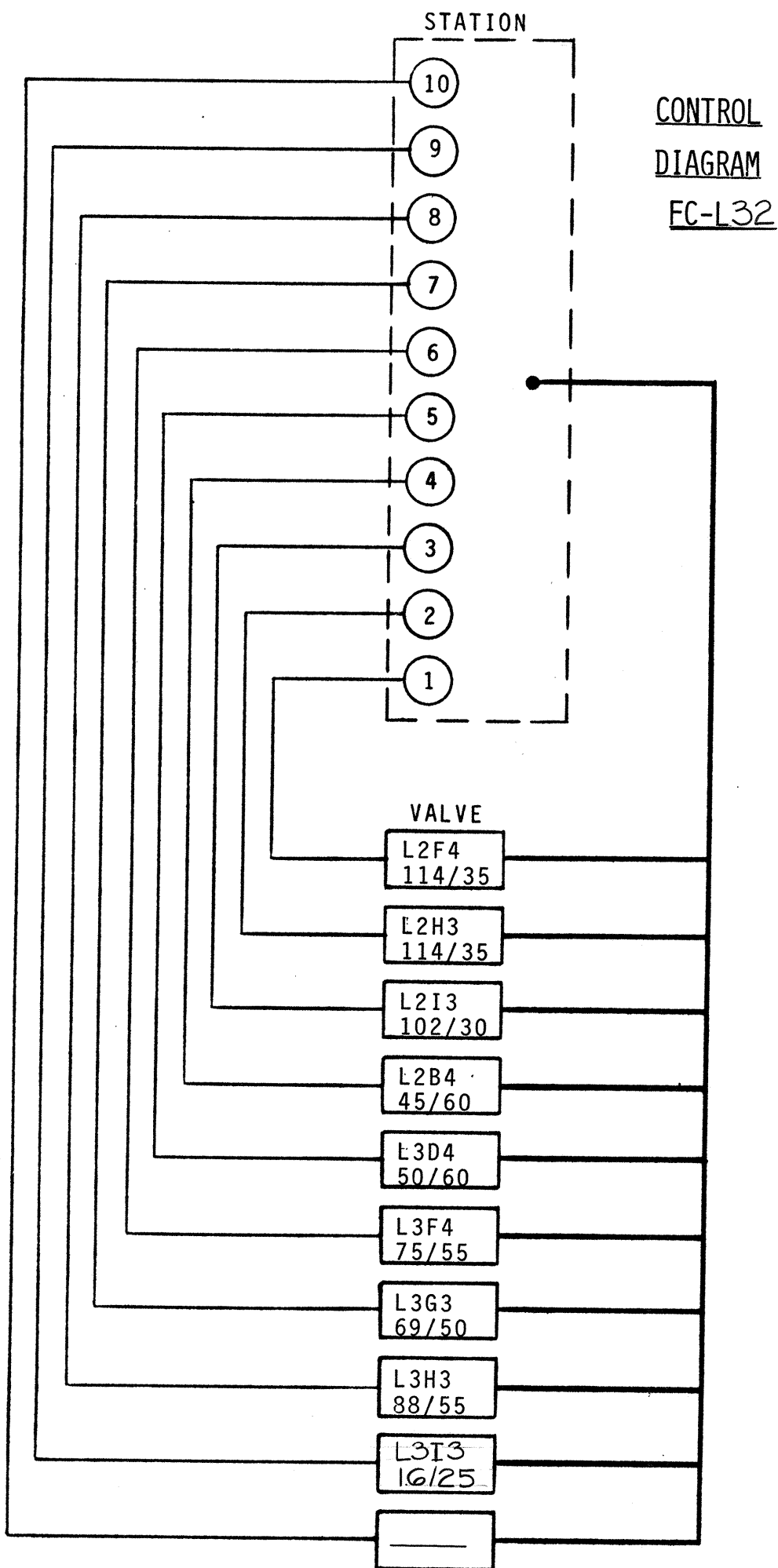
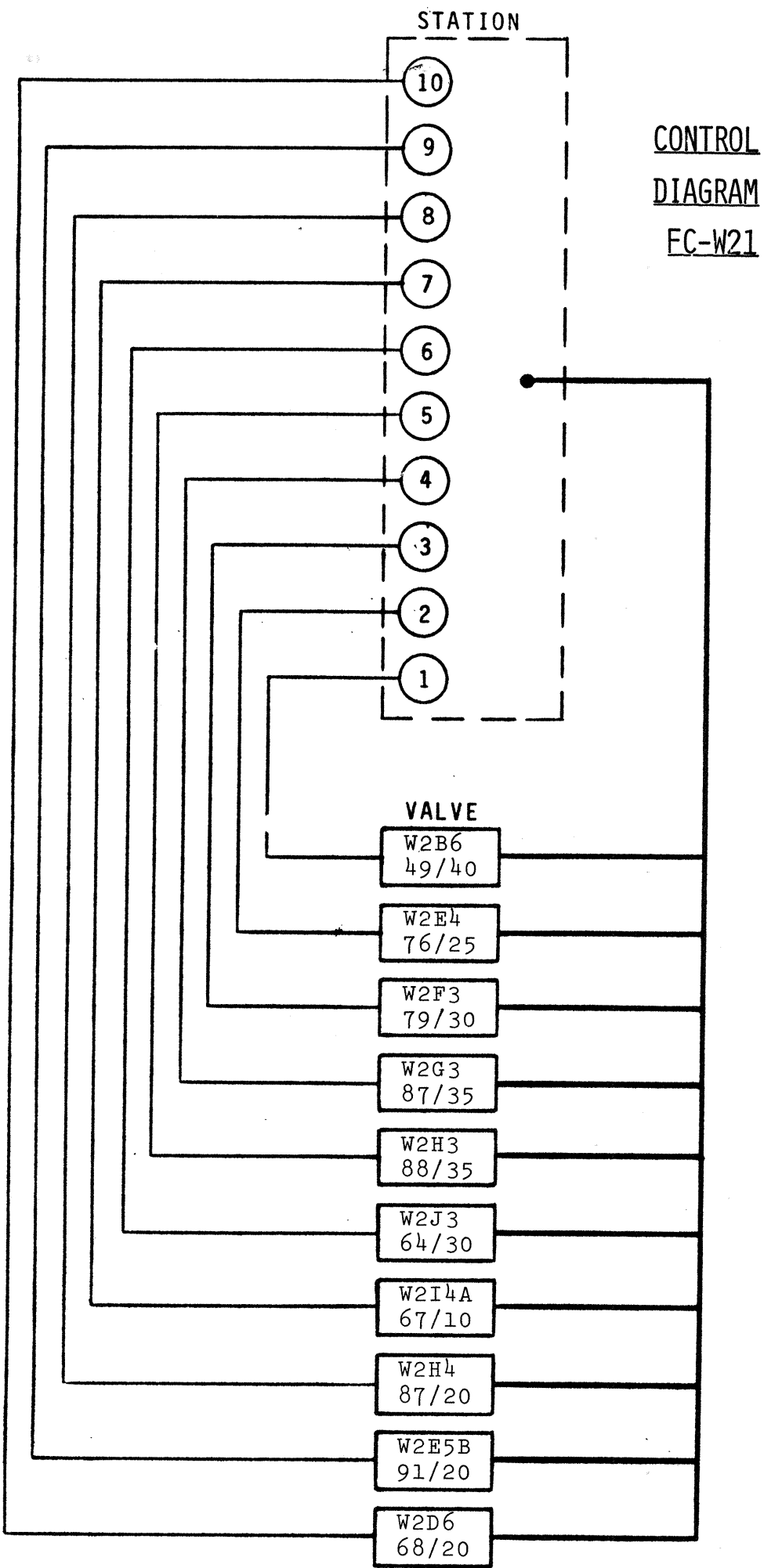
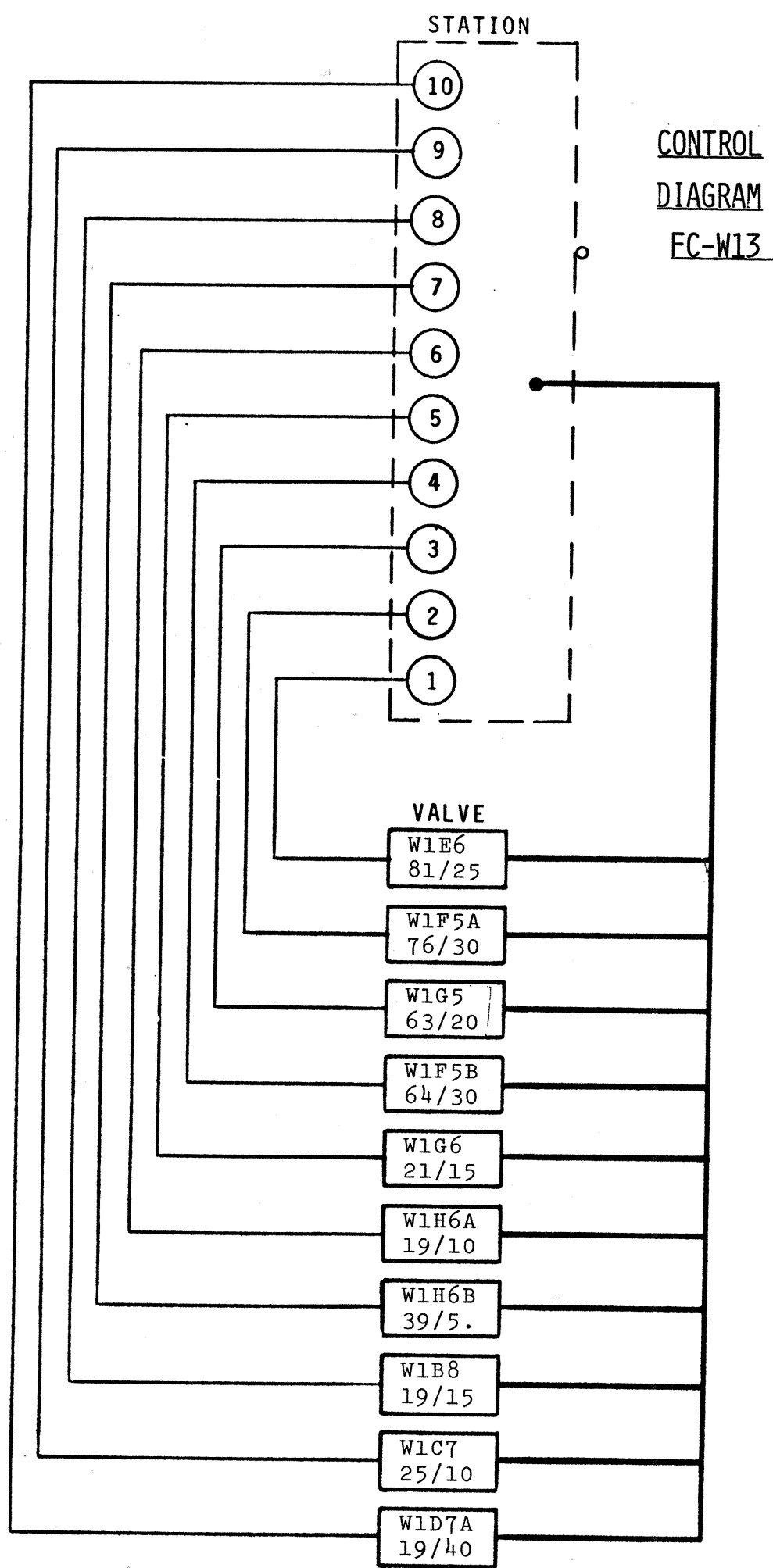
PROJECT NO. I-H2-1(17):G

WAHIAWA INTERCHANGE & LEILEHUA INTERCHANGE
CONTROL DIAGRAMS

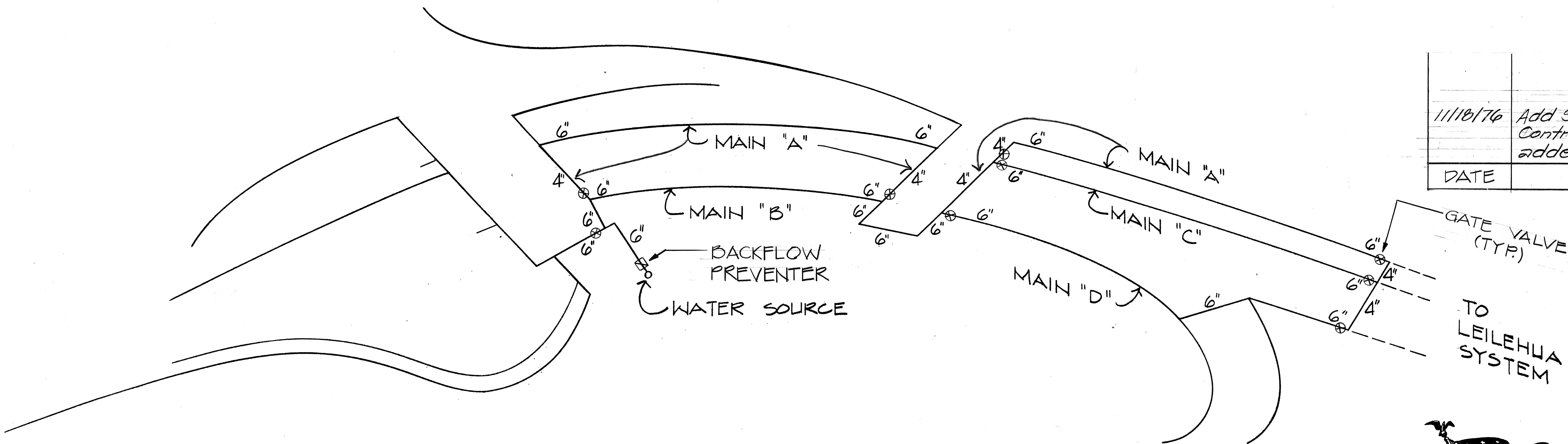
SHEET No. 14 OF 22 SHEETS

ADD. 23

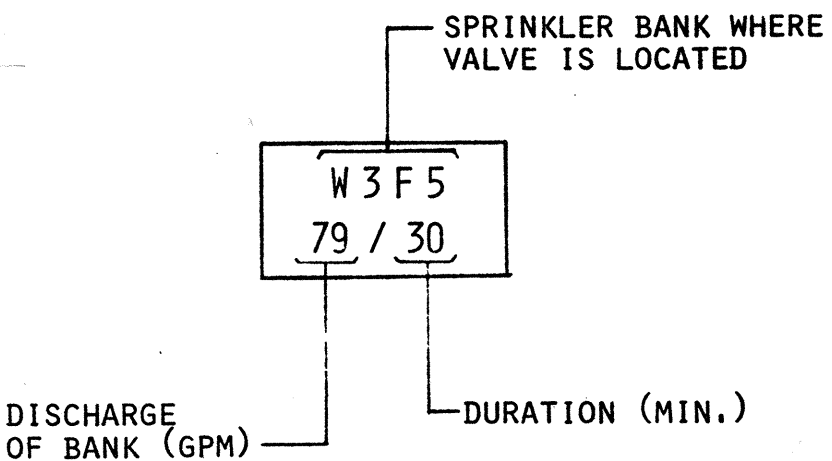
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)-6	1976	24	31



DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
NO.	_____



11/18/76	Add Sprinkler Bank L313 to Control Diagram EC-L32 per addendum No. 1
DATE	REVISION



EXPLANATION OF VALVE IDENTIFICATION

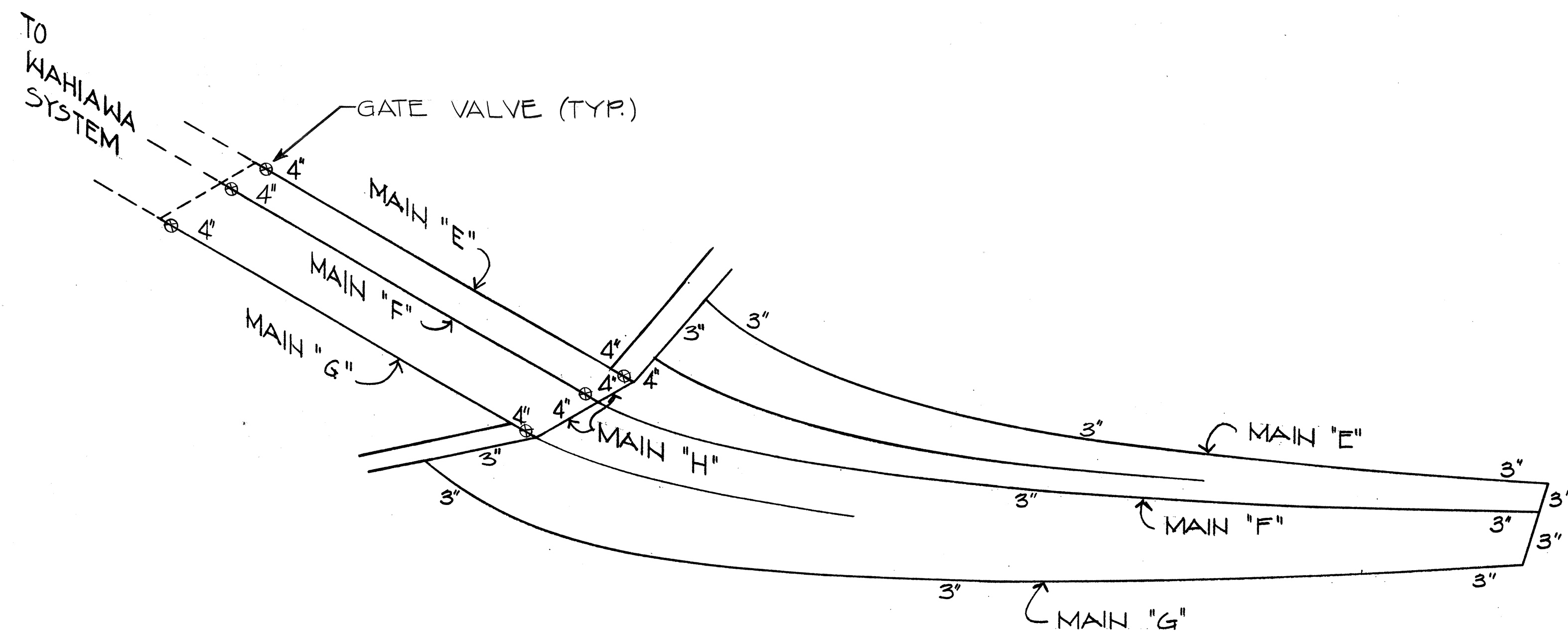
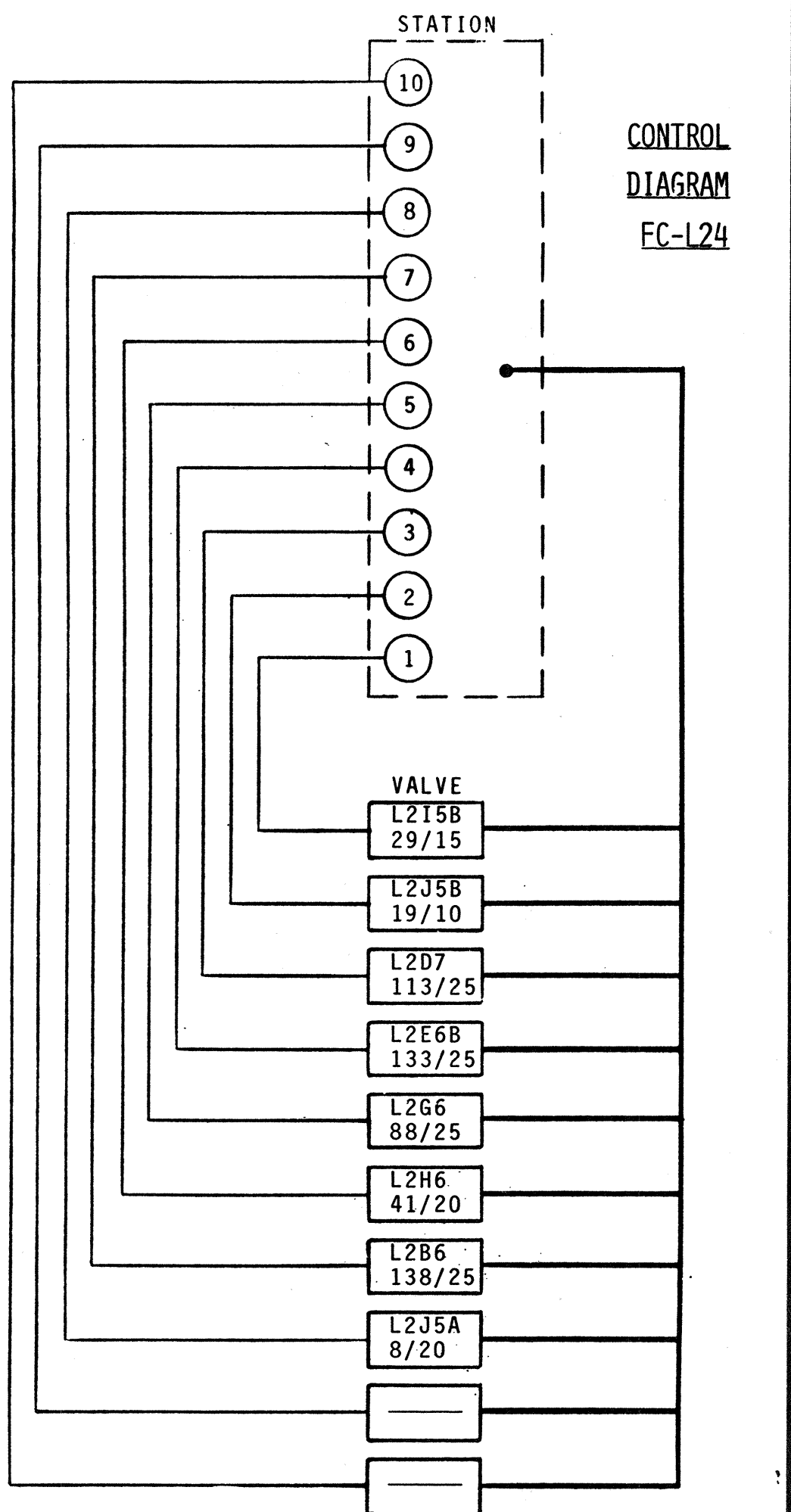
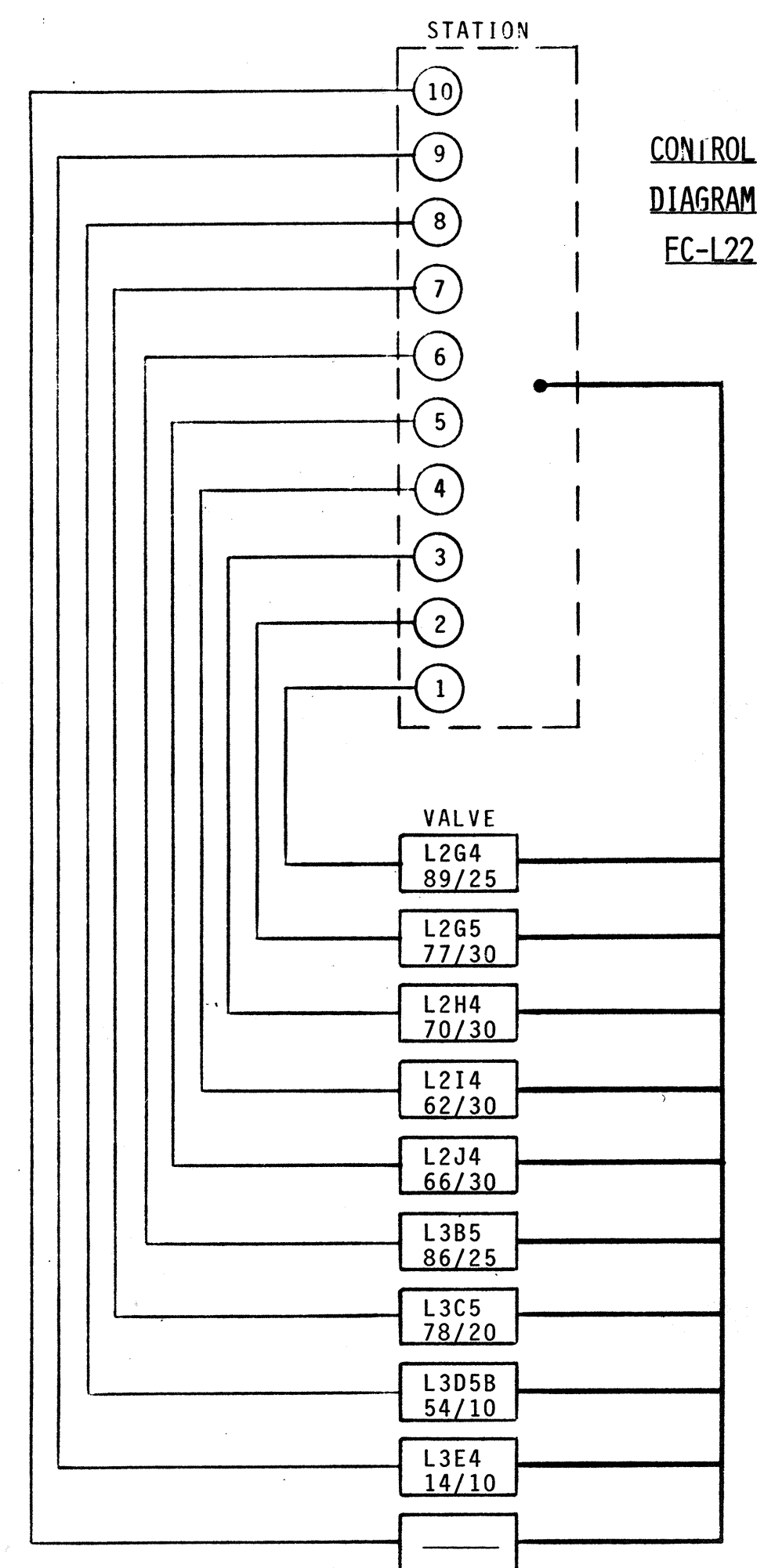
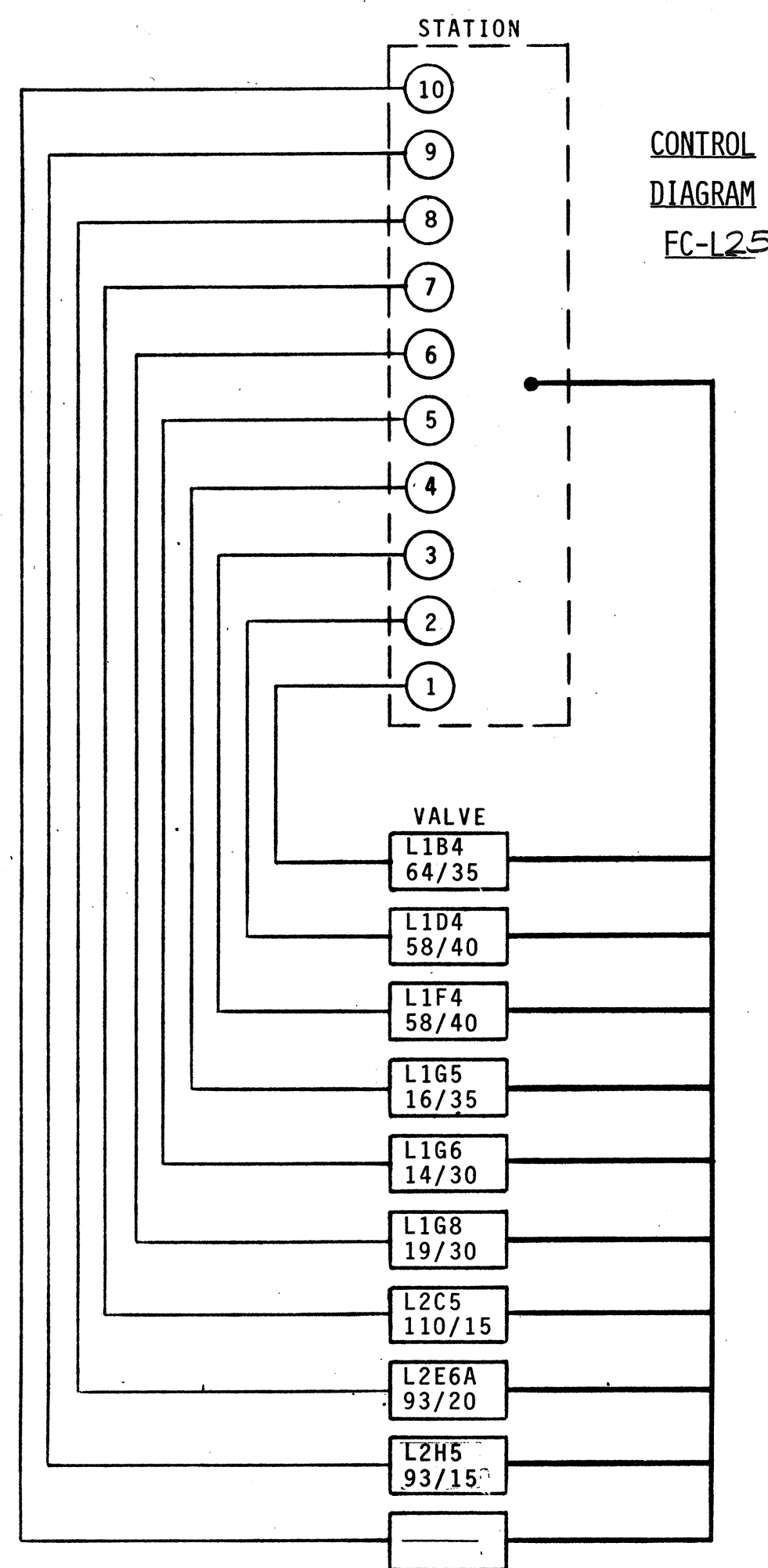
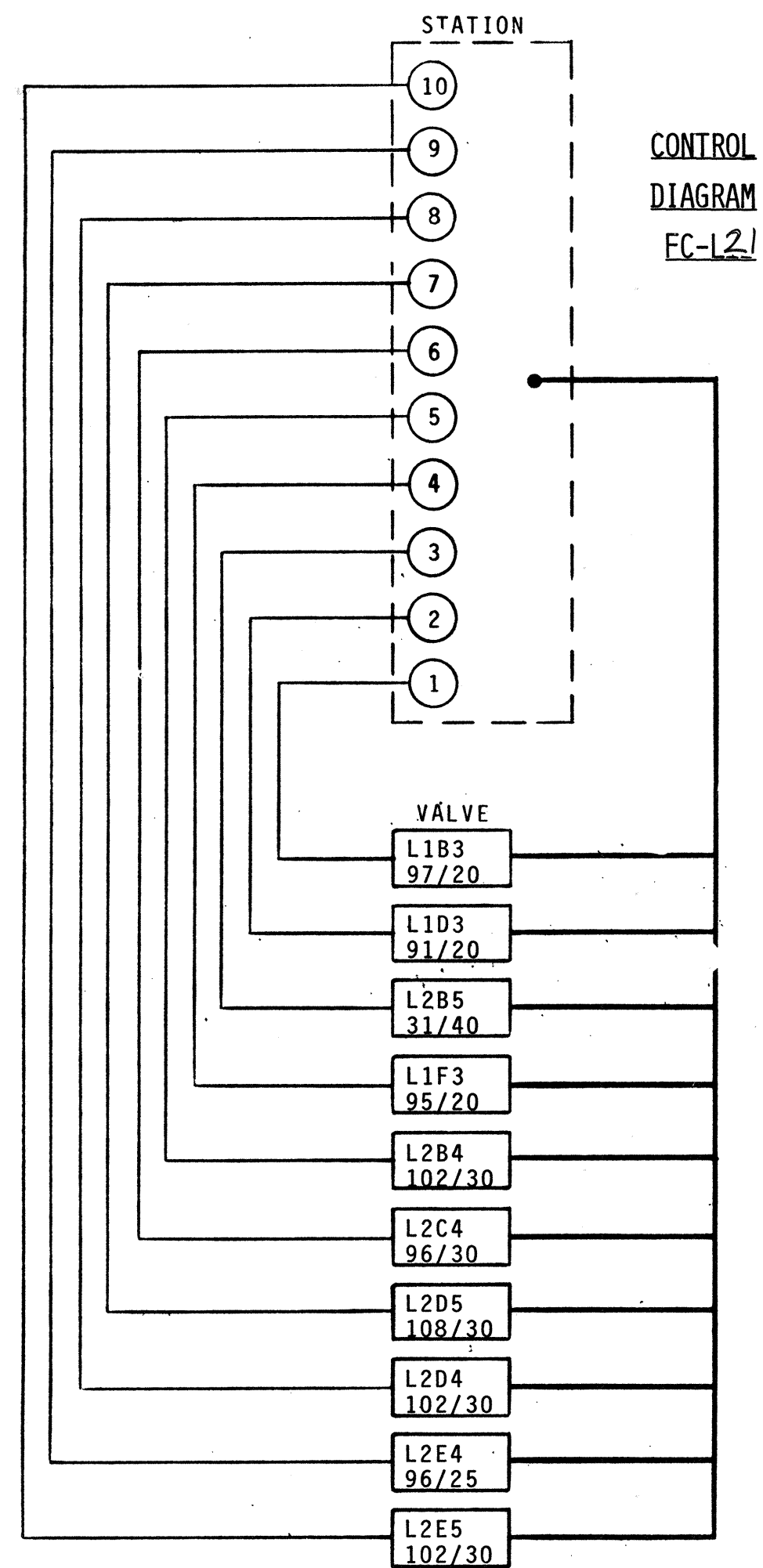
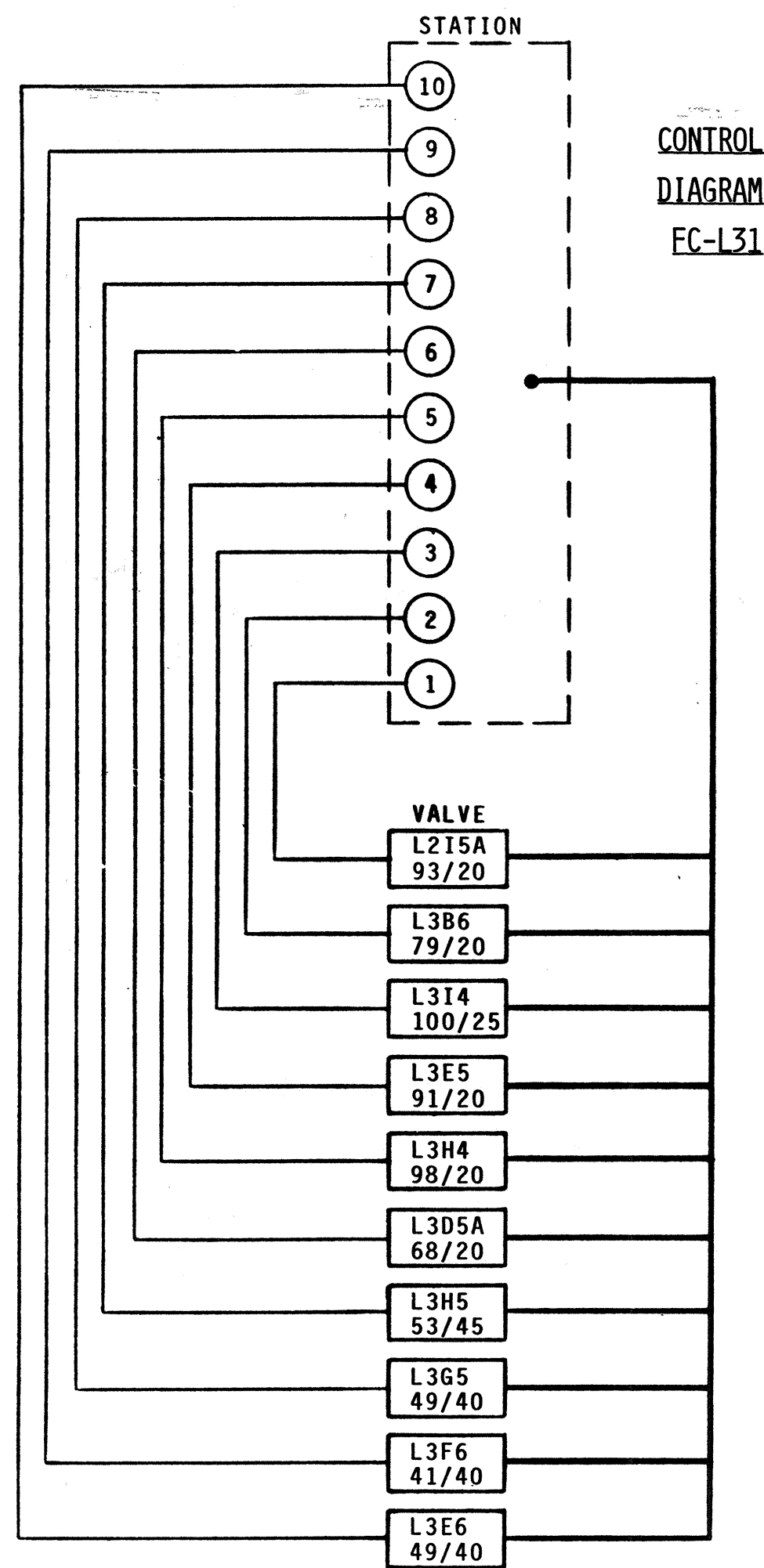
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17)-6

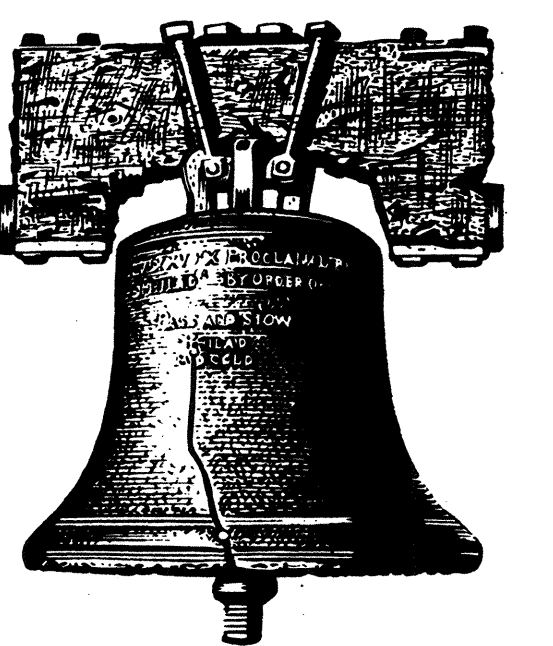
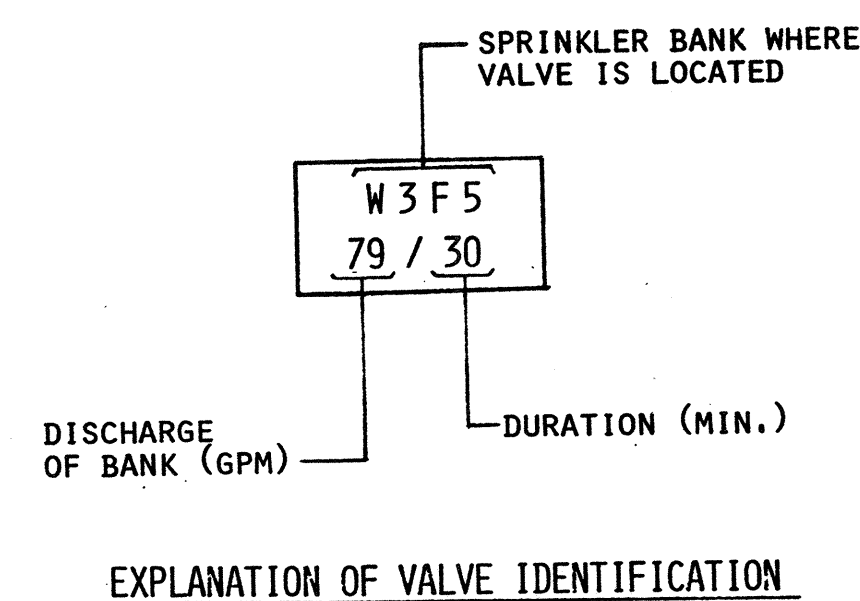
WAHIAWA INTERCHANGE &
LEILEHUA INTERCHANGE
CONTROL DIAGRAMS

SHEET No. 15 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	25	31



ISOMETRIC — DISTRIBUTION SYSTEM
LEILEHUA INTERCHANGE N.T.S.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17):6

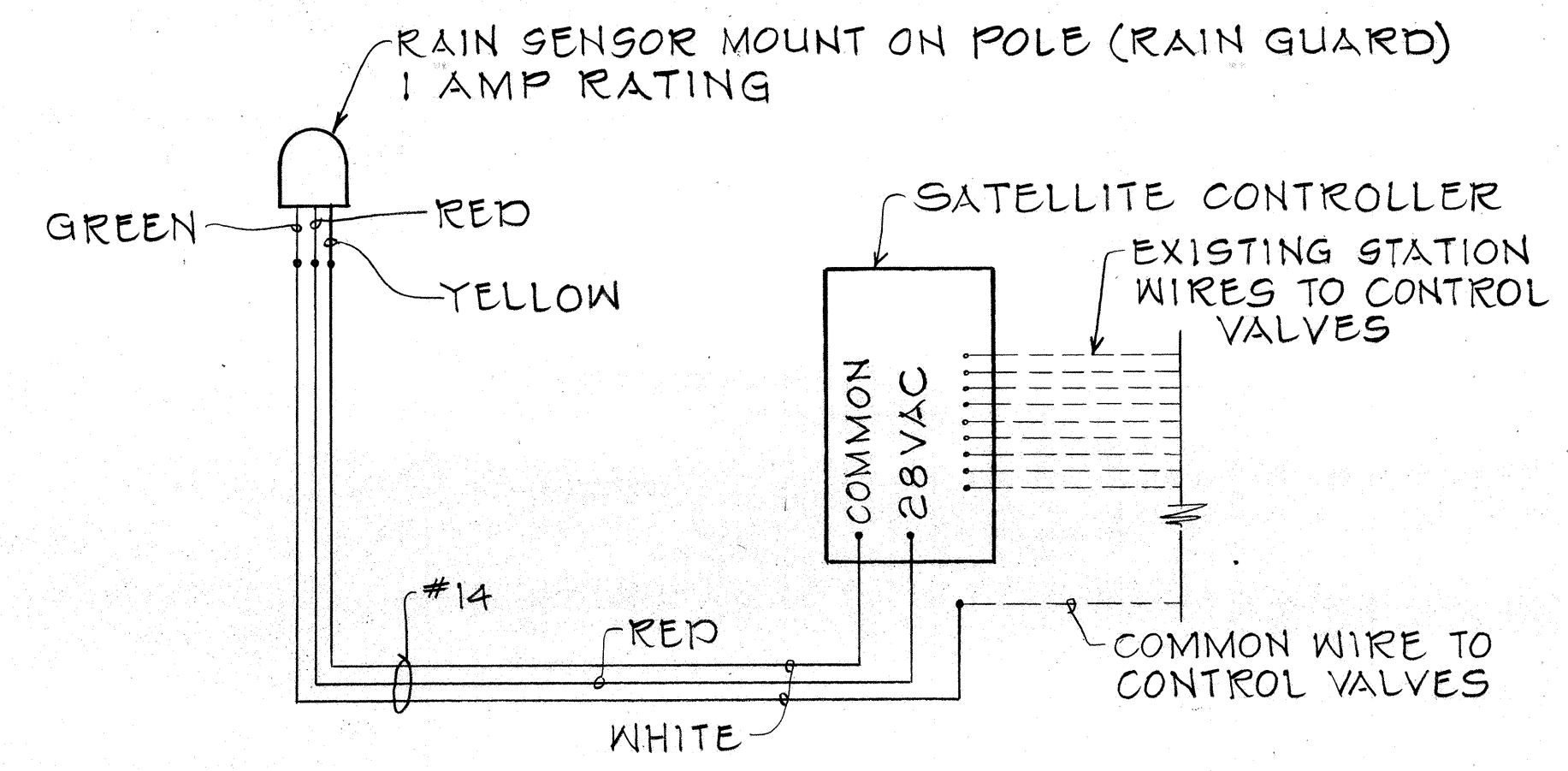
WAHIAWA INTERCHANGE &
LEILEHUA INTERCHANGE
CONTROL DIAGRAMS

SHEET No. 25 OF 22 SHEETS

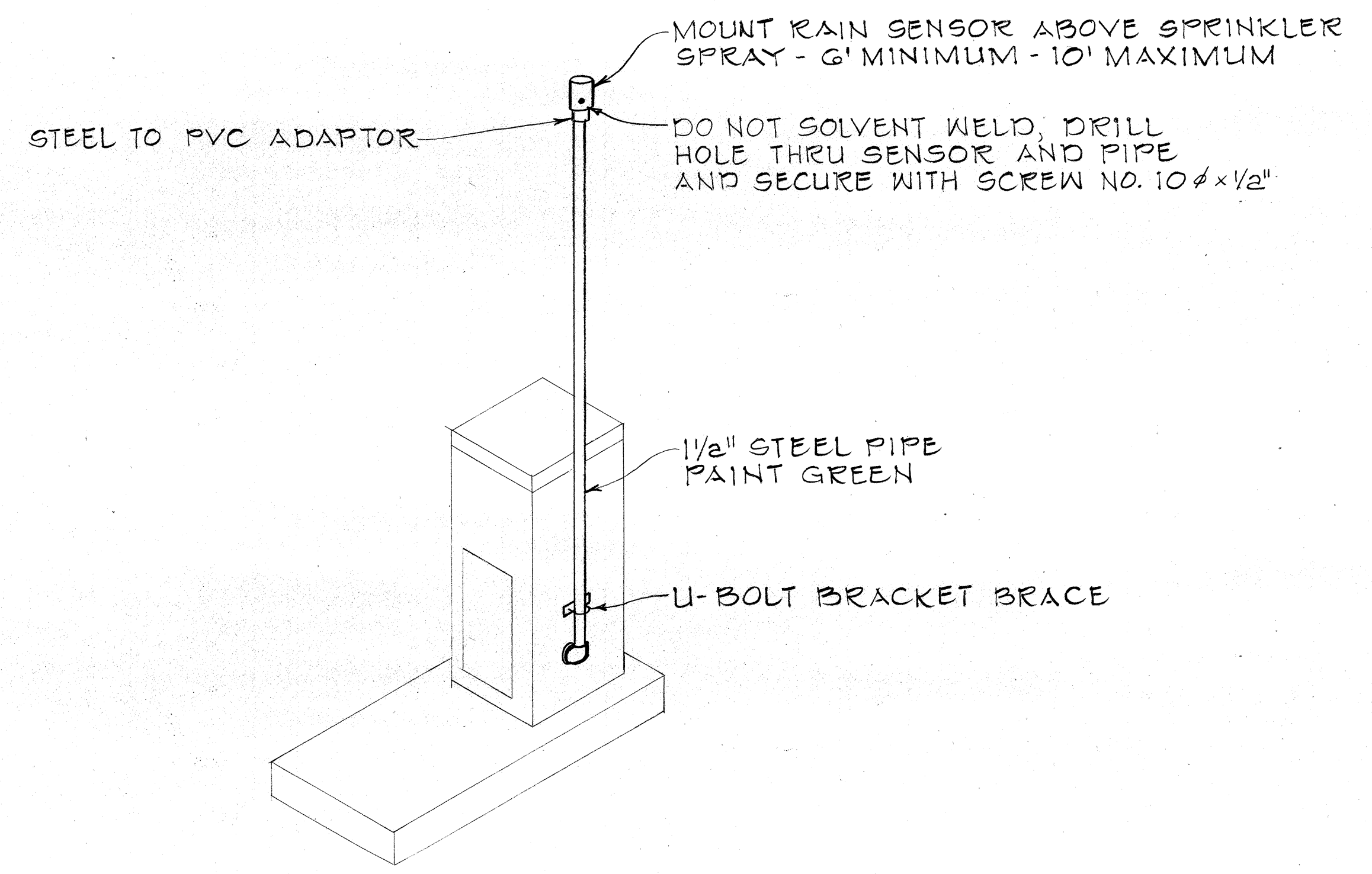
CURTIS G. H. YEE
REGISTERED PROFESSIONAL ENGINEER
No. 2634-E
HAWAII

DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
NO.	

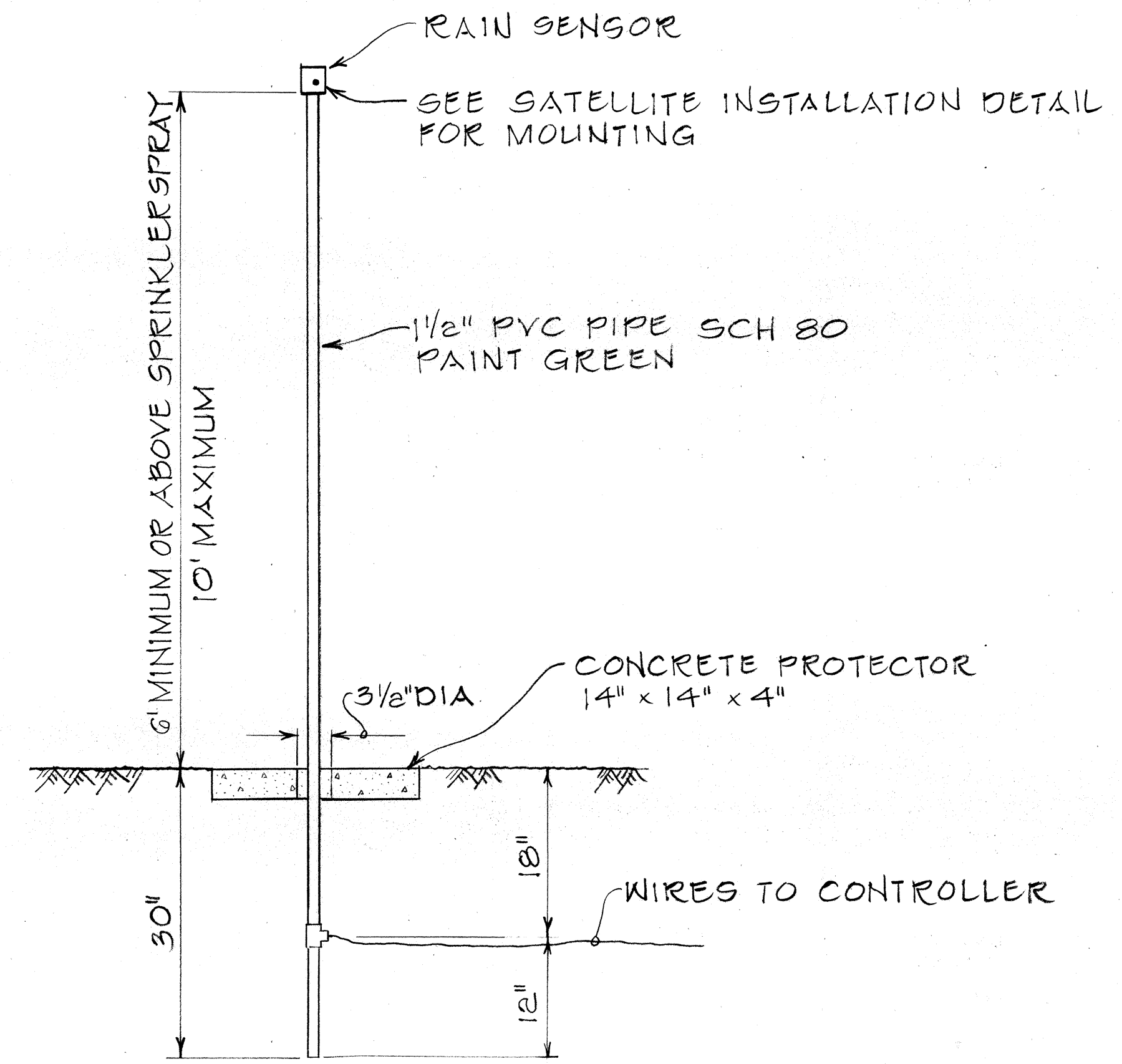
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1979	002551	31



RAIN SENSOR WIRE DIAGRAM AT SATELLITE CONTROLLER



TYPICAL RAIN SENSOR INSTALLATION AT SATELLITE CONTROLLER



TYPICAL DETAIL RAIN SENSOR ON POLE

ORIGINAL PLAN	DATE
DRAWN BY	DESIGNED BY
NOTE BOOK	QUANTITIES BY
NO.	CHECKED BY

31 Jan 79	Sheet added to Contract Plan to show additional details.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION IRRIGATION SYSTEM DETAILS INTERSTATE ROUTE H-2 PROJ NO. I-H2-1(17):6 Not to Scale Date: Jan 1979 SHEET NO. 16 OF 22 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	26	31

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

EXPLANATION OF SYSTEM NO. DESIGNATIONS

INTERCHANGE SYMBOL: W - WAHIAWA
SHEET L - LEILEHUA
M - MILILANI

W2B3A DESIGNATION USED WHEN MORE THAN
ONE SYSTEM IN GRID ZONE.

AREA NO. GRID ZONE COORDINATES

DATE	REVISION
------	----------

PROJECT NO. I-H2-1(17): 6

SHEET No. 17 OF 22 SHEETS

ADD. 26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	27	31

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

EXPLANATION OF SYSTEM NO. DESIGNATIONS

INTERCHANGE SYMBOL: W - WAHIAWA
SHEET L - LEILEHUA
M - MILILANI

T 2 B 3 A DESIGNATION USED WHEN MORE THAN
ONE SYSTEM IN GRID ZONE.

AREA NO. GRID ZONE COORDINATES

.....
This work was prepared by me or under my
supervision

SHEET No. 18 OF 22 SHEETS

ADD. 27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HZ-1(17):6	1976	28	31

EXPLANATION OF SYSTEM NO. DESIGNATIONS

DESIGNATES INTERCHANGE SYMBOL: W - WAHIAMA
 DRIP SYSTEM SHEET L - LEILEHUA
 D 72 B 3 A M - MILITANI
 AREA NO. DESIGNATION USED WHEN MORE THAN
 ONE SYSTEM IN GRID ZONE.
 GRID ZONE COORDINATES

11/18/70	Revised sprinkler quantities - per addendum No. 1.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17): 6

WAIHAWA INTERCHANGE

SPRINKLER SUMMARY

SHEET No. 19 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17)	1976	29	31

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

EXPLANATION OF SYSTEM NO. DESIGNATIONS

INTERCHANGE SYMBOL: W - WAHIAWA
SHEET L - LEILEHUA
M - MILILANI

W 2 B 3 A

DESIGNATION USED WHEN MORE THAN
ONE SYSTEM IN GRID ZONE.

AREA NO. GRID ZONE COORDINATES

11/18/76	Revised sprinkler quantities per addendum No.1
DATE	REVISION

.....
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(17):6	1976	30	31

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

EXPLANATION OF SYSTEM NO. DESIGNATIONS

INTERCHANGE SYMBOL: W - WAHIAWA
SHEET L - LEILEHUA
M - MILILANI

W 2 B 3 A DESIGNATION USED WHEN MORE THAN
ONE SYSTEM IN GRID ZONE,
AREA NO. GRID ZONE COORDINATES

K-E CRYSTALEND
TRACERS FOR

DATE	REVISION
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.....
This work was prepared by me or under my supervision

ADD. 30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	E-HZ-1(17):6	1976	31	31

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

EXPLANATION OF SYSTEM NO. DESIGNATIONS

DESIGNATES INTERCHANGE SYMBOL: W - WAHIAWA
PRIP SYS. SHEET L - LEILEHUA
M - MILITANI

W 2 B 3 A DESIGNATION USED WHEN MORE THAN
ONE SYSTEM IN GRID ZONE.

AREA NO. GRID ZONE COORDINATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. I-H2-1(17): 6

LEILEHUA INTERCHANGE

SPRINKLER SUMMARY

K-E CRYSTALINE®
TRADING PAPER

ADD. 31