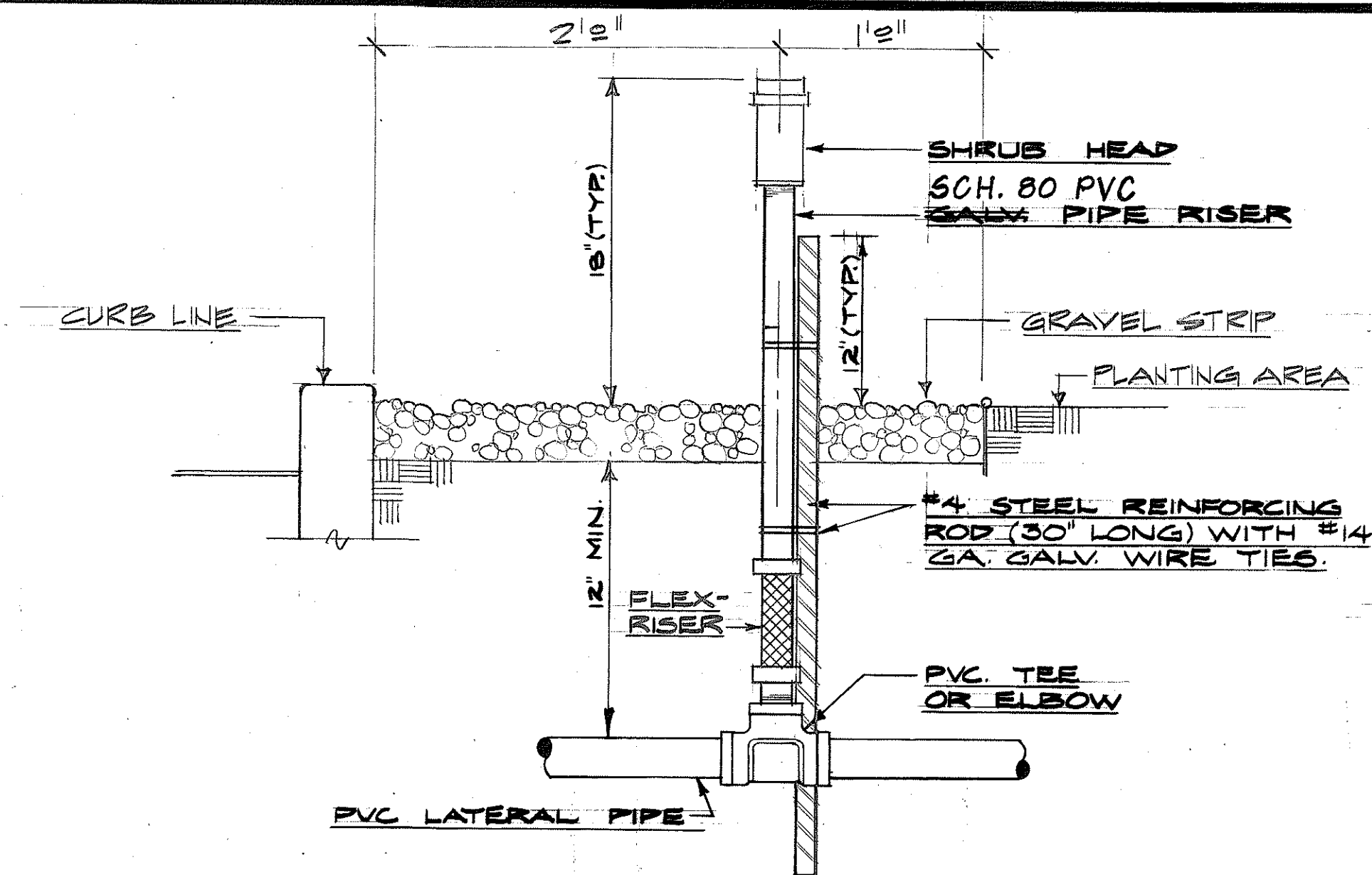




TYPICAL SHRUB HEAD DETAIL
NO SCALE

GENERAL NOTES

1. FINAL LOCATIONS OF VALVES, CONTROLLERS & SUPPLY LINES SHALL BE DETERMINED BY THE ENGINEER.
2. CONCRETE REACTION BLOCKS SHALL BE CLASS "B" CONCRETE.
3. MINIMUM LINE SIZE BETWEEN SPRINKLER HEADS SHALL BE AS SHOWN ON THE PLANS.
4. NO ROCKS OR SHARP OBJECTS ONE INCH OR LARGER SHALL BE USED IN BACKFILL MATERIAL FOR TRENCHES.
5. CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS FOR PROPER COVERAGE. IF ADJUSTMENTS ARE MADE, NOTIFY ENGINEER OF SUCH ACTION.
6. LINE SIZE UP TO & INCLUDING 3" SHALL BE GALVANIZED STEEL, COPPER OR P.V.C. PIPE, EXCEPT THAT PIPE UNDER PAVED AREAS SHALL BE COPPER.

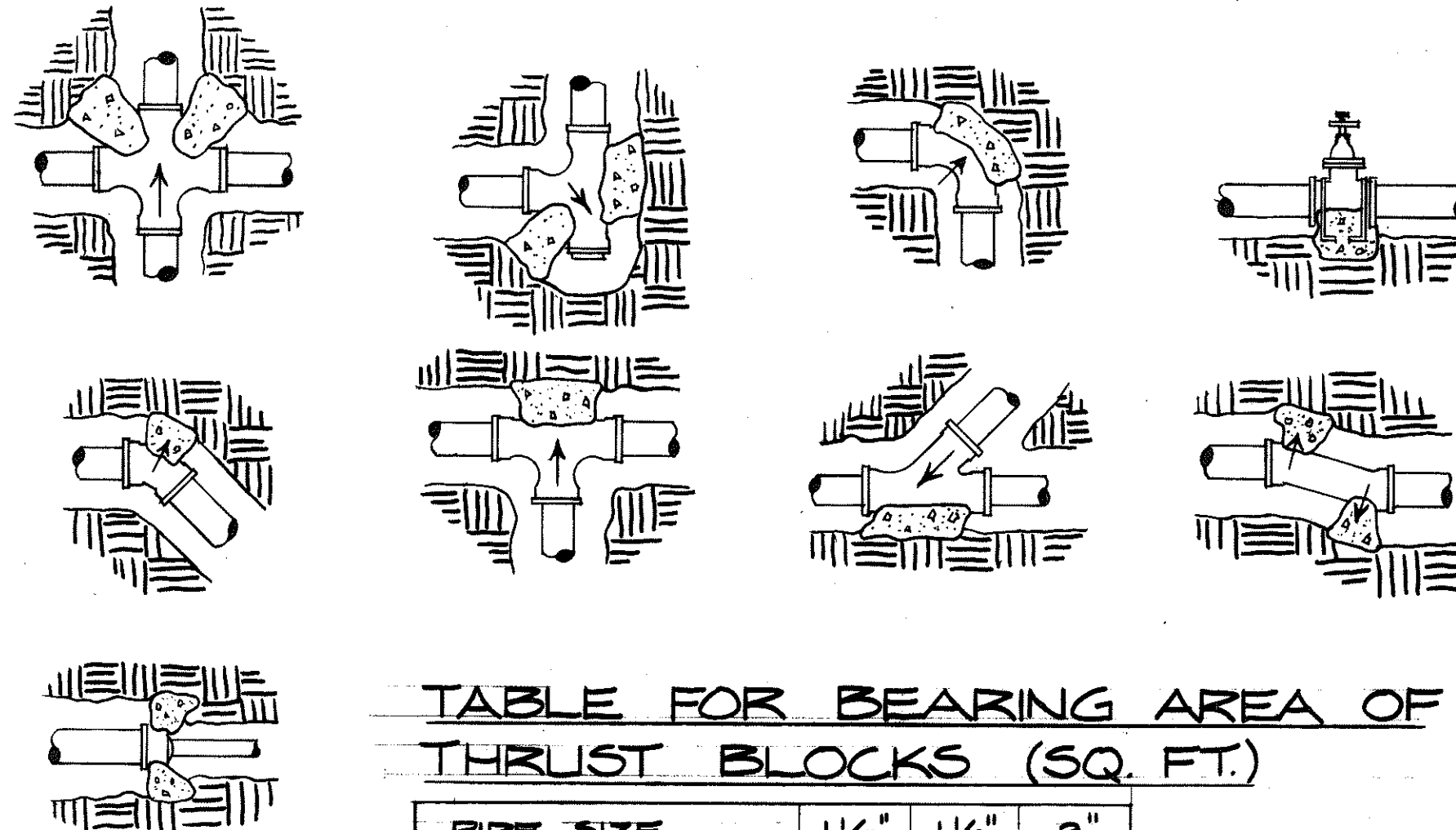
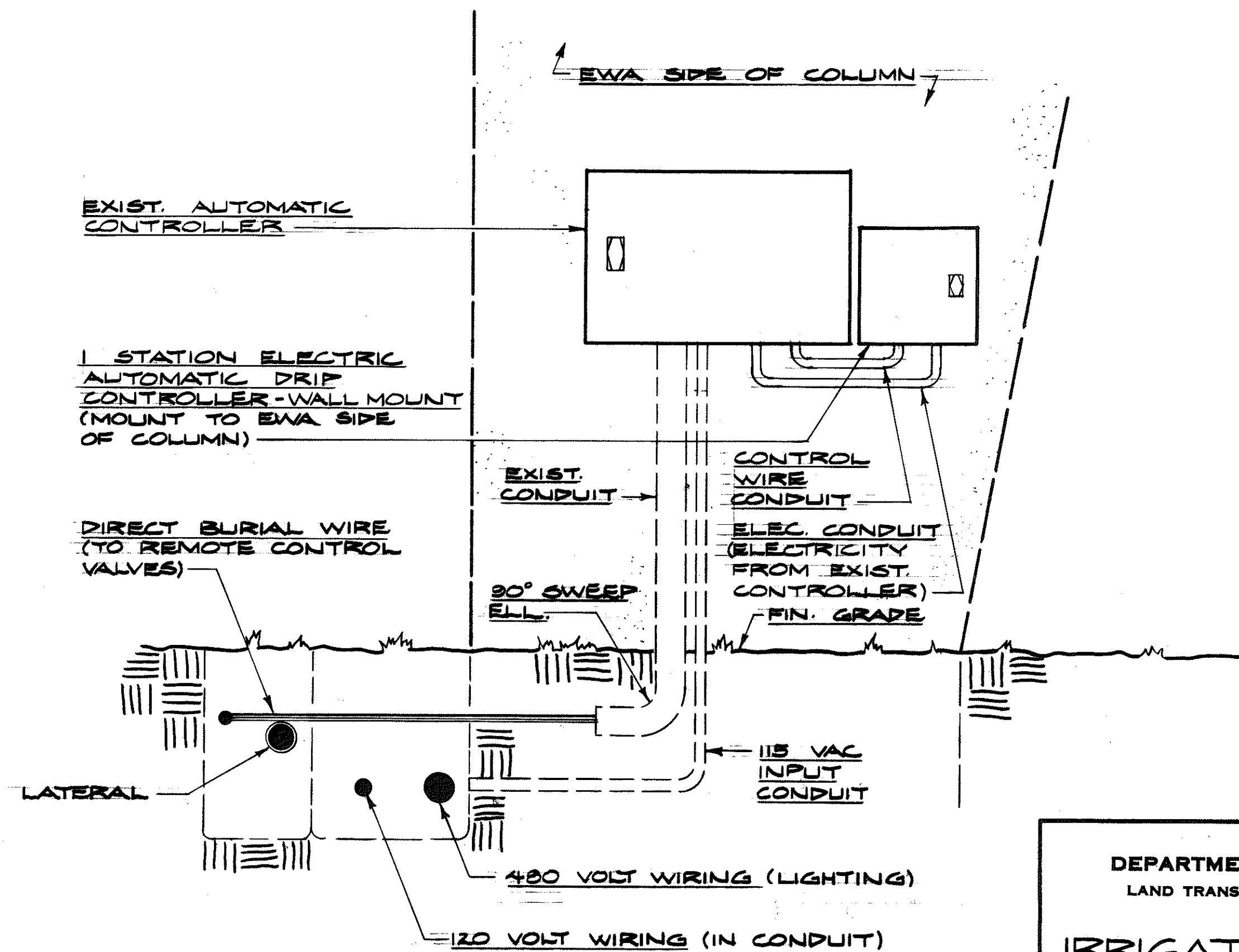


TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

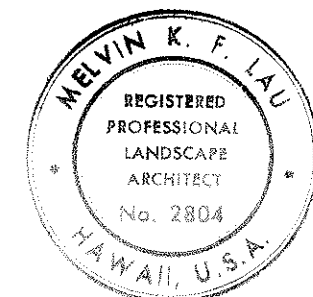
PIPE SIZE	1/4"	1/2"	2"
TEES & CROSSES	0.50	0.50	0.50
90° BEND	0.50	0.50	0.50
45° BEND	0.50	0.50	0.50

TYPICAL THRUST BLOCK DETAILS
NO SCALE

IRRIGATION LEGEND						
SPRINKLER	SYMBOL	DESCRIPTION	PRESSURE P.S.I.	COVERAGE FT.	FLOW GPM	RISER INCHES
S-12	⌒	SHRUB SPRAY - QUARTER	25	12' RAD.	.7	1/2"
S-12	⌒	SHRUB SPRAY - THIRD	25	12' RAD.	.8	1/2"
S-12	⌒	SHRUB SPRAY - HALF	25	12' RAD.	1.0	1/2"
ST-12	▽	STRIP SHRUB SPRAY	25	4' x 24'	1.04	1/2"
S-21	⬤	SHRUB SPRAY - QUARTER	35	21' RAD.	.7	1/2"
S-21	⬤	SHRUB SPRAY - THIRD	35	21' RAD.	1.04	1/2"
S-21	⬤	SHRUB SPRAY - HALF	35	21' RAD.	1.38	1/2"
S-21	⬤	SHRUB SPRAY - FULL	35	21' RAD.	2.88	1/2"
	⬤	12" POP-UP	35	21' RAD.	—	
S-38	⬤	SHRUB SPRAY - QUARTER	35	38' RAD.	1.4	1/2 3/4"
S-38	⬤	SHRUB SPRAY - THIRD	35	38' RAD.	1.8	1/2 3/4"
S-38	⬤	SHRUB SPRAY - HALF	35	38' RAD.	2.8	1/2 3/4"
S-38	⬤	SHRUB SPRAY - FULL	35	38' RAD.	5.6	1/2 3/4"
	⬤	12" POP-UP	35	38' RAD.	—	
	⬤	ELECTRIC REMOTE CONTROL VALVE/V.B. 24V WATERPROOF SOLENOID				
	⬤	TRICKLER VALVE ASSEMBLY UNIT				
	⬤	FLAPPER EMITTER				
	⬤	3/4" BRASS HOSE BIB ON GALV. PIPE RISER				
	⬤	PLASTIC IMPACT (NELSON ® 1372)				
	⬤	ELECTRIC AUTOMATIC DRIP CONTROLLER - 1 STATION WALL MOUNT				
	⬤	EXIST. GATE VALVE				
	⬤	EXIST. AUTOMATIC CONTROLLER				



CONTROLLER & TRENCHING DETAIL
NO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

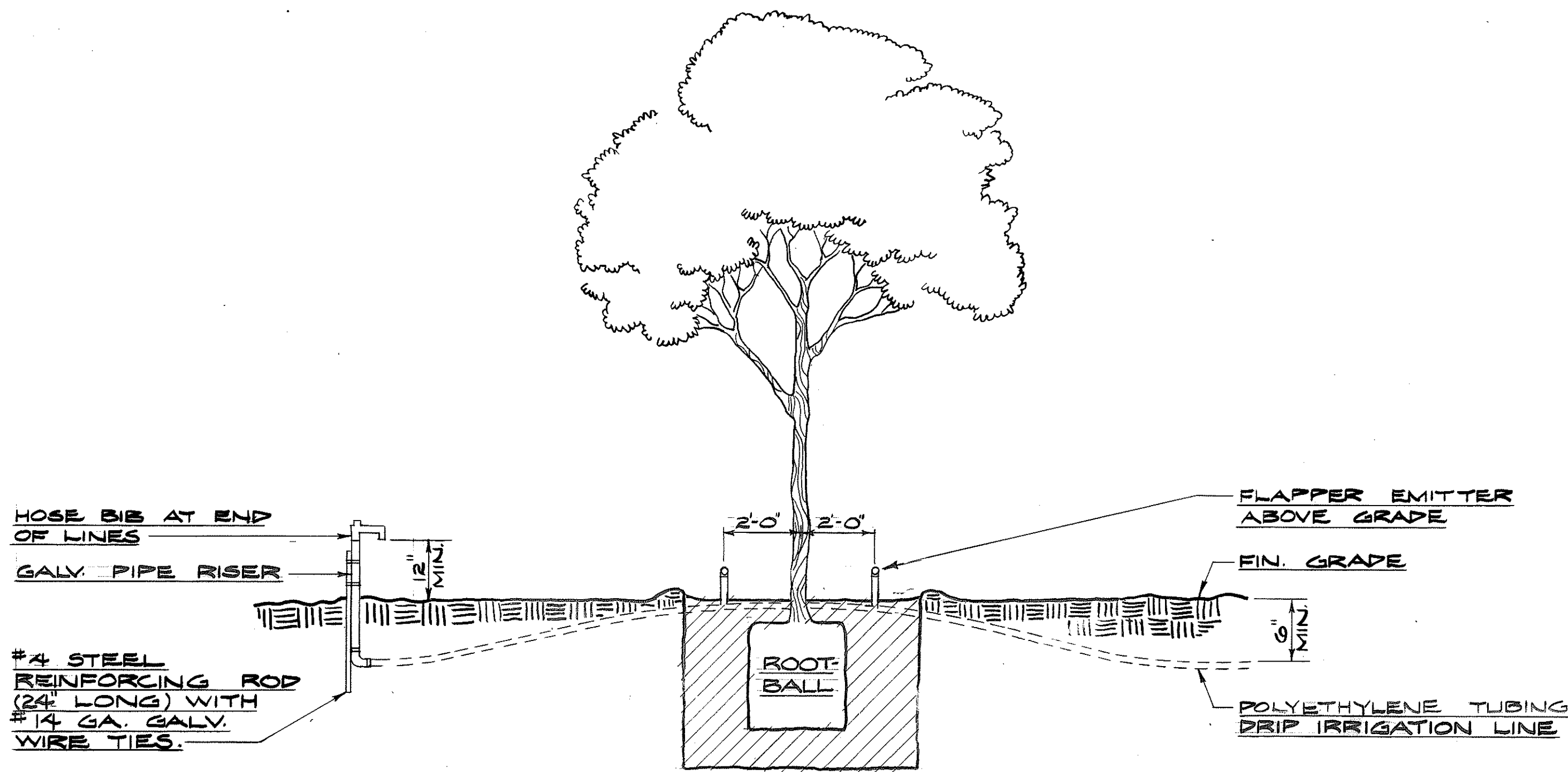
IRRIGATION LEGEND & DETAILS

AIRPORT INTERCHANGE
ROADWAY LANDSCAPING
F.A.I. PROJ. NO. I-HI-1(172)16
SCALE AS SHOWN DATE: 8-31-1981

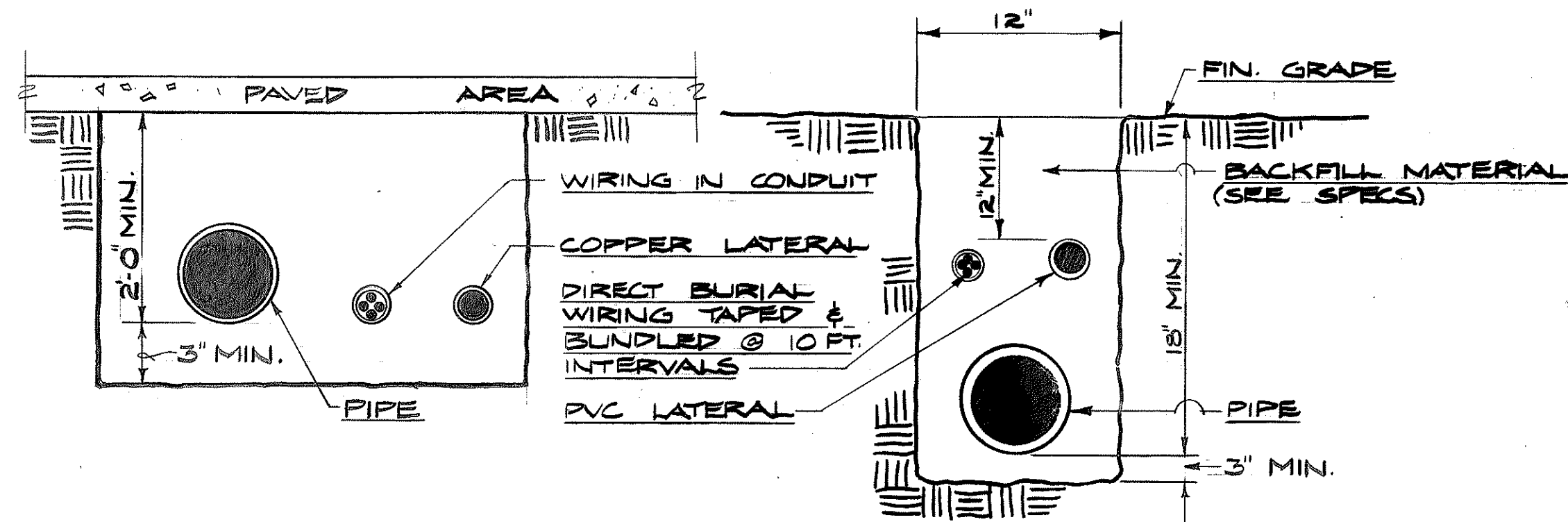
SHEET NO. L-9 OF 24 SHEETS

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

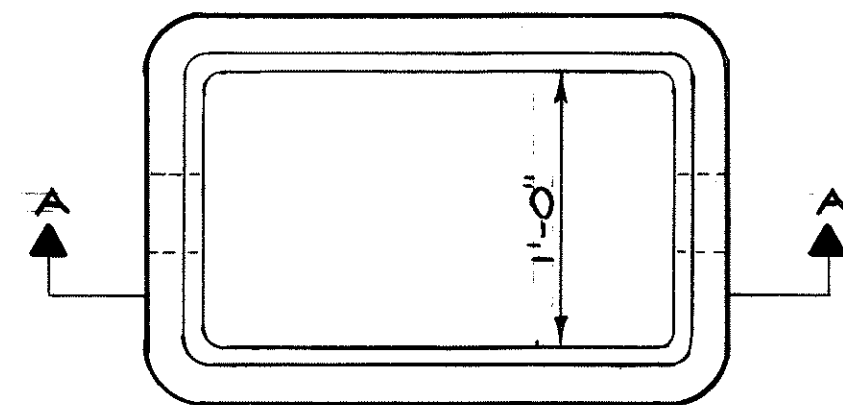
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(172):16	1981	11	24



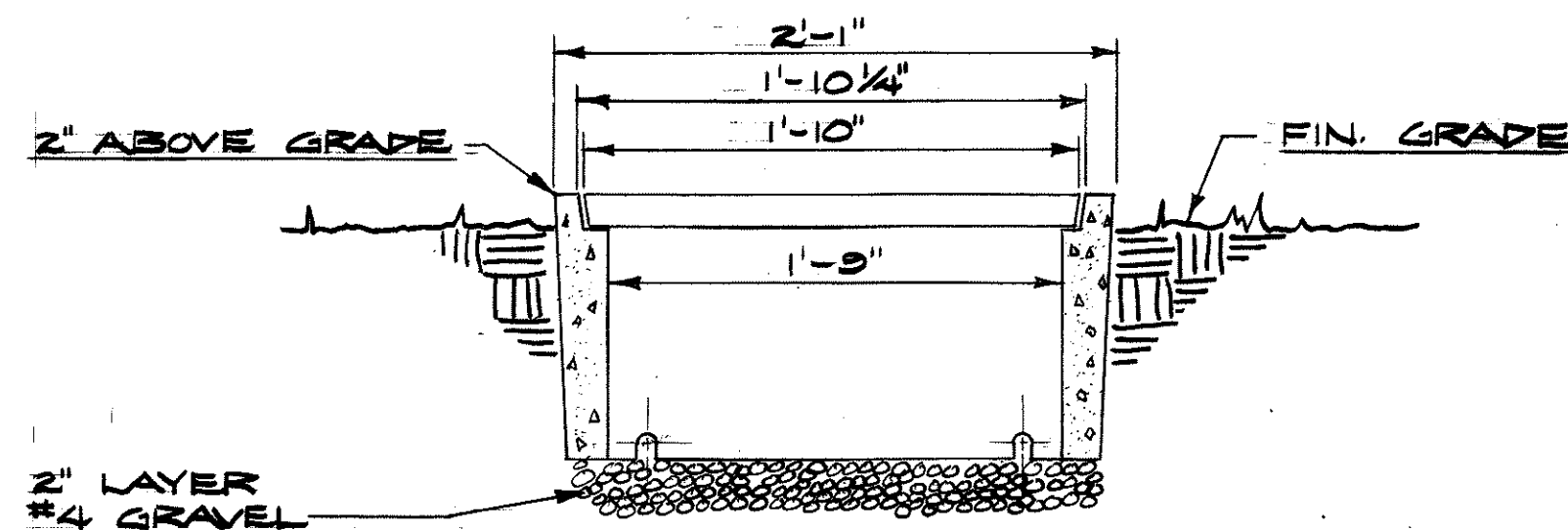
DRIP IRRIGATION SYSTEM DETAIL
NO SCALE



TYPICAL PIPE TRENCH DETAIL
NO SCALE



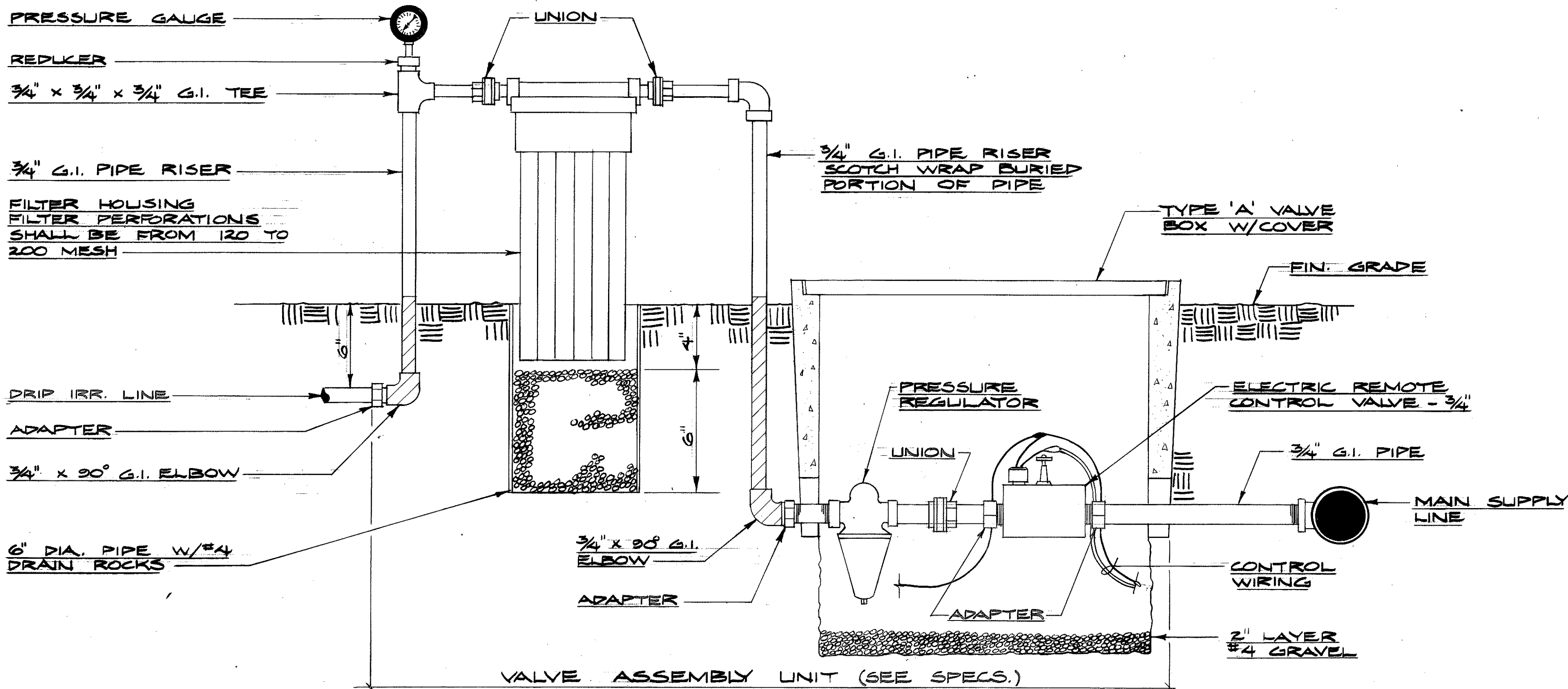
PLAN



SECTION A-A

NOTE:
TYPE 'A' VALVE BOX IS SIMILAR TO A HONOLULU BOARD OF WATER SUPPLY TYPE 'X' METER BOX. INSTEAD OF THE WORDS 'BOARD OF WATER SUPPLY' AND 'WATER METER' ON THE CAST IRON COVER IMPRINT THE WORDS 'SPRINKLER VALVE'.
THIS BOX IS TO BE USED AS AN IRRIGATION ELECTRIC PULL BOX WHERE NEEDED.

TYPE 'A' VALVE BOX
NO SCALE



VALVE ASSEMBLY UNIT & ELECTRIC REMOTE CONTROL VALVE (DRIP IRRIGATION) SYSTEM
NO SCALE



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

IRRIGATION DETAILS

AIRPORT INTERCHANGE
ROADWAY LANDSCAPING
F.A.I. PROJ. NO. I-HI-1(172):16
SCALE AS SHOWN DATE: 8-31-1981