

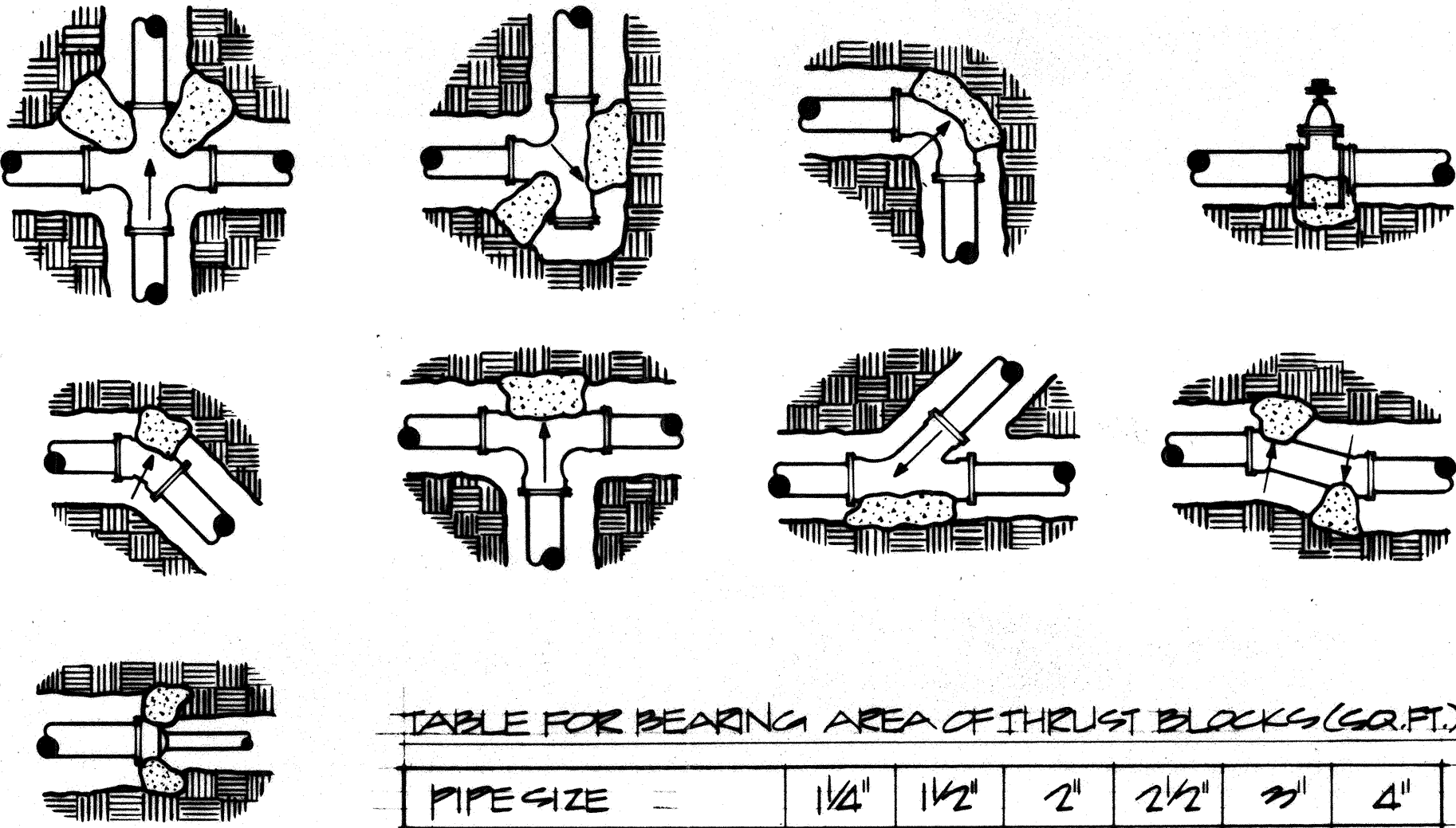
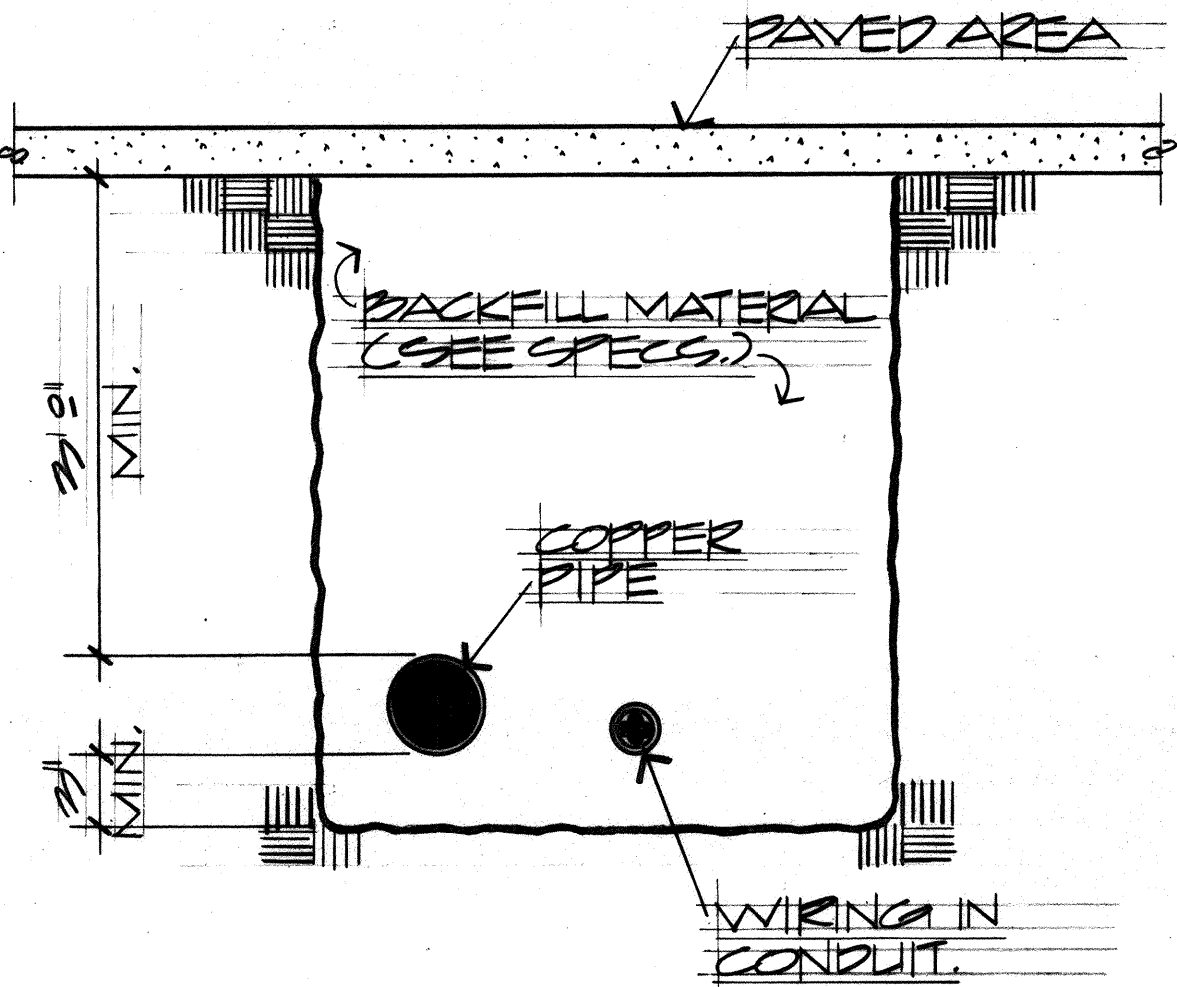


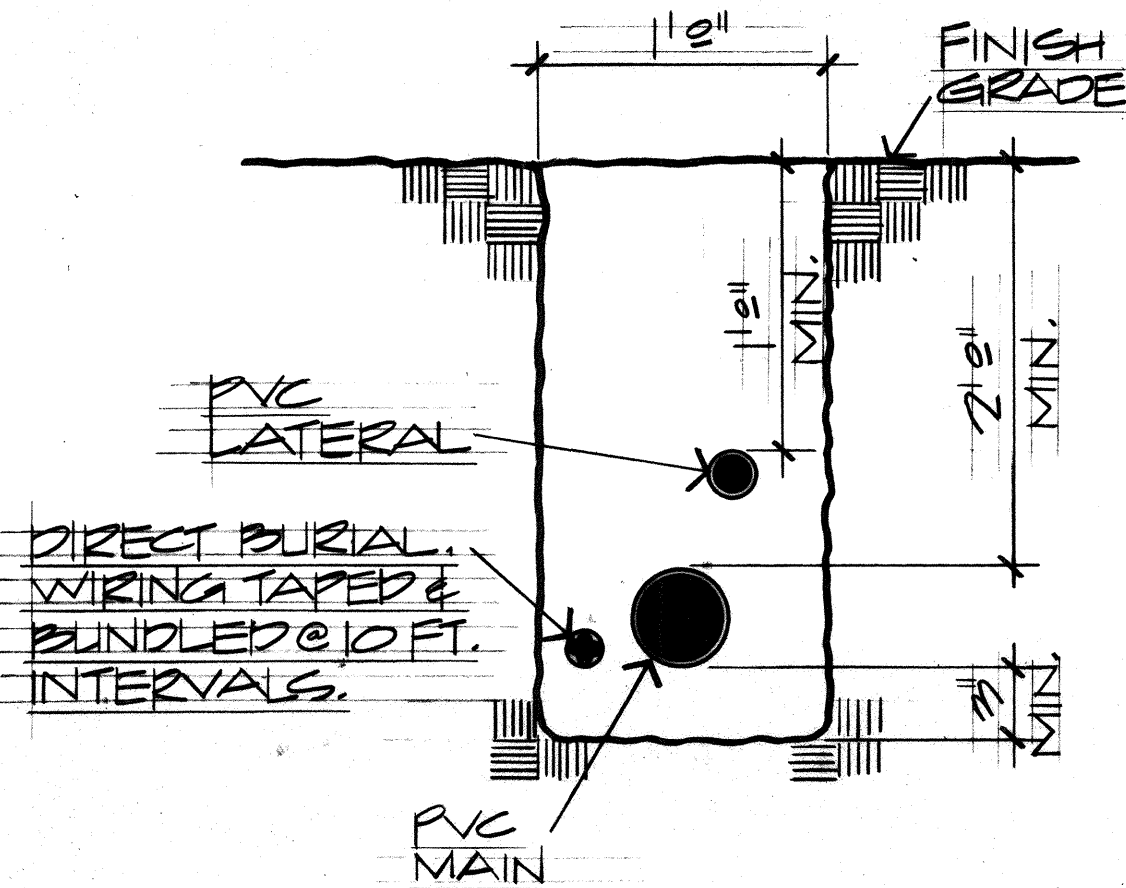
TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

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

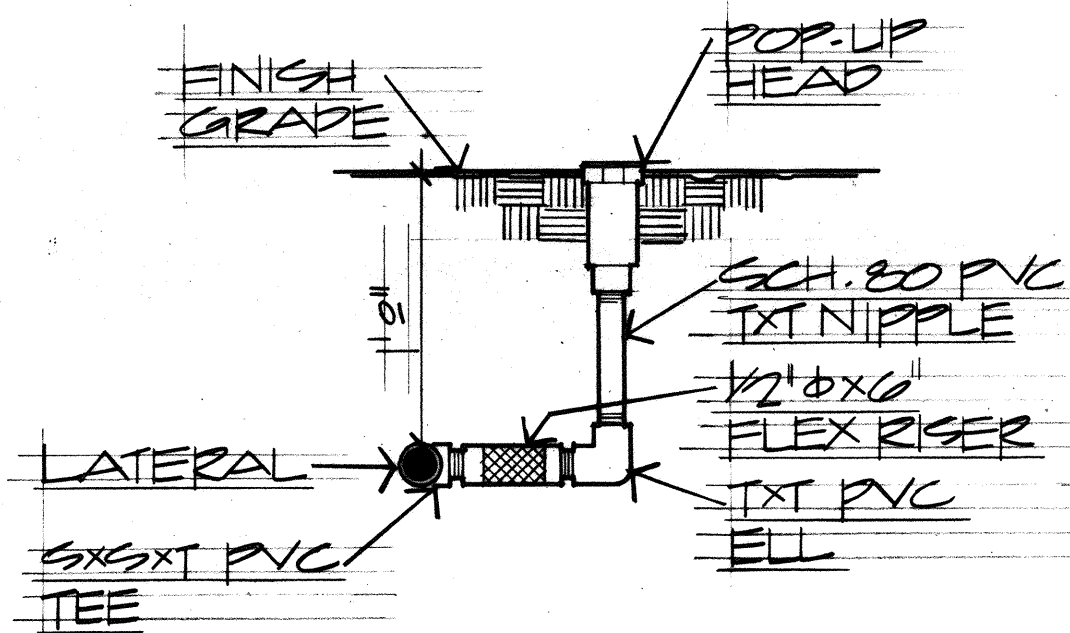
TYP. THRUST BLOCK DET.
NO SCALE



TYP. PIPE TRENCH DET.
NO SCALE

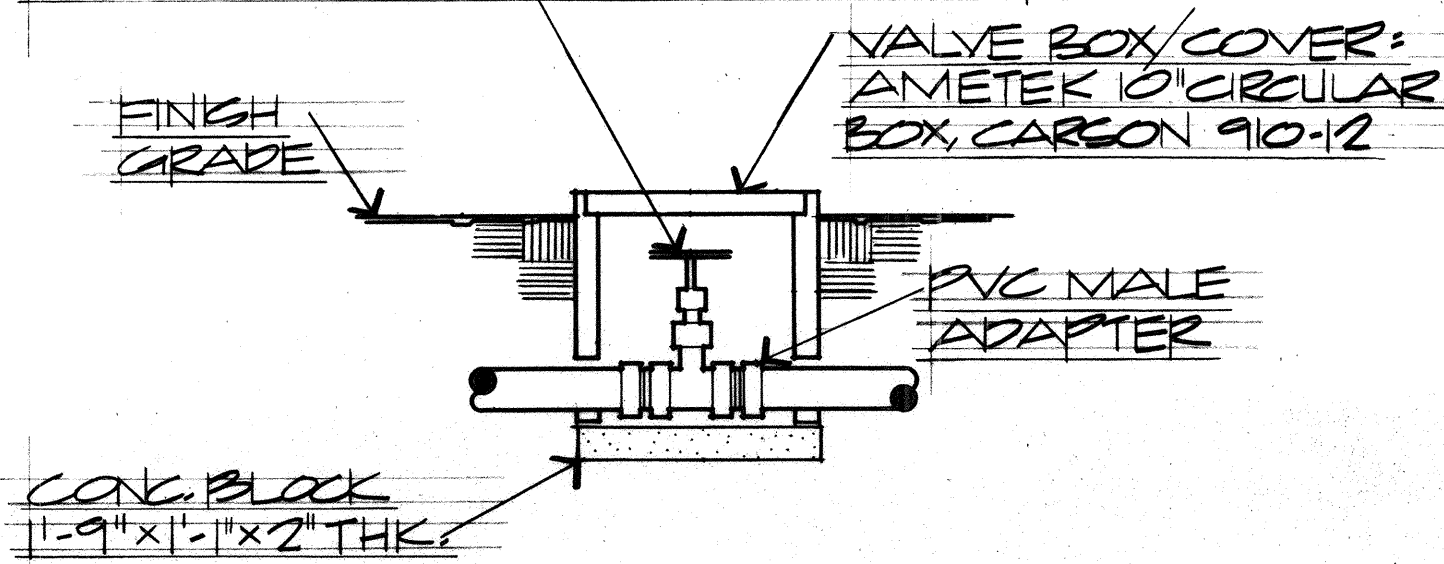


FULL CIRCLE HEADS IN CENTER OF PLANTING STRIP, 12" MAX. FROM EDGE OF PAVEMENT. PART CIRCLE HEADS 12" FROM EDGE OF PLANTING AREA OR RIGHT OF WAY.



POP-UP HEAD DET.
NO SCALE

DO NOT INSTALL VALVES IN DRAINAGE SWALE
BRONZE GATE VALVE
2" SQUARE NUT - 2" VALVE & LARGER
HANDWHEEL - 2 1/2" VALVE & SMALLER

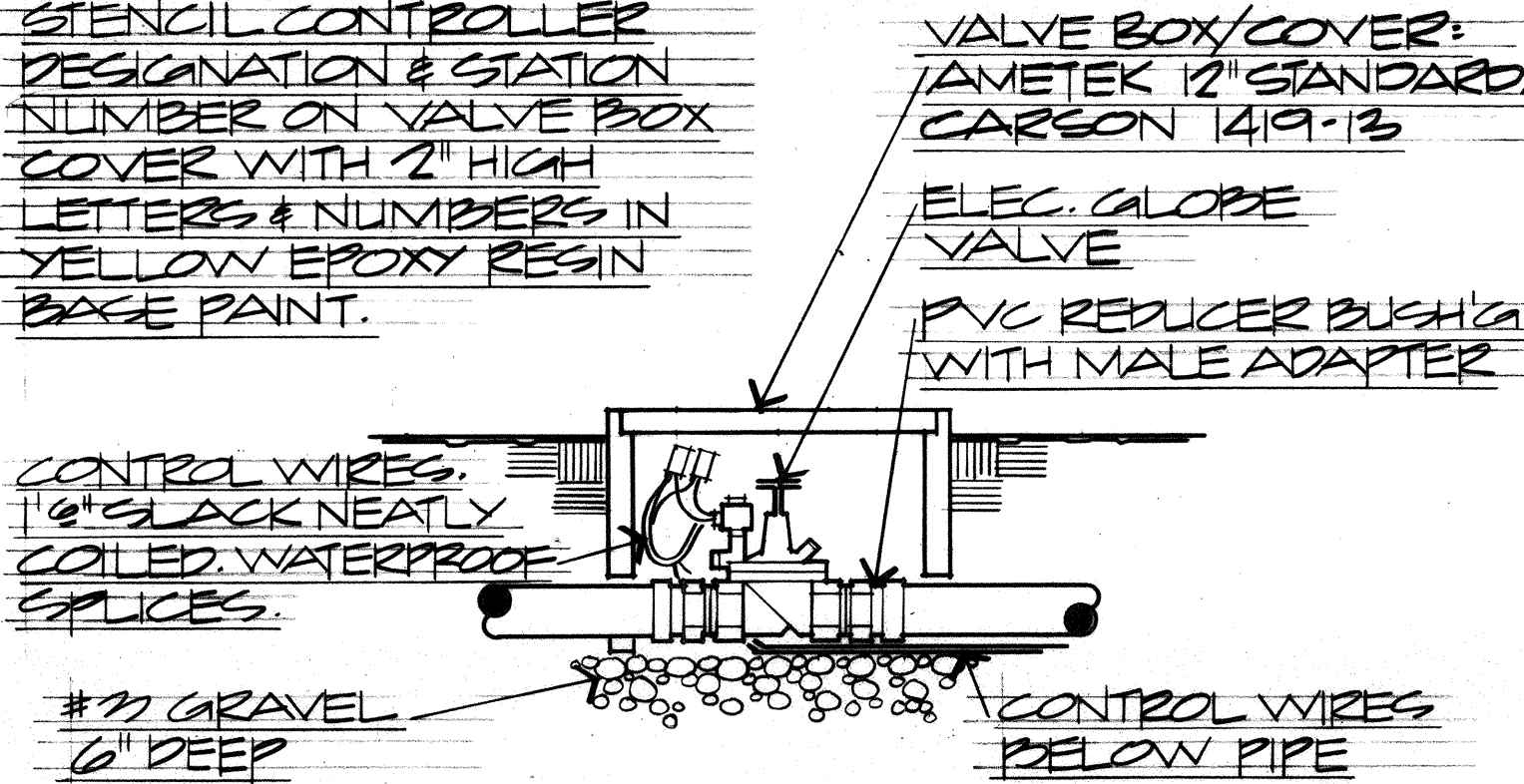


GATE VALVE DET.
NO SCALE

1 VALVE PER VALVE BOX
STENCIL CONTROLLER
DESIGNATION & STATION
NUMBER ON VALVE BOX
COVER WITH 2" HIGH
LETTERS & NUMBERS IN
YELLOW EPOXY RESIN
BASE PAINT.

CONTROL WIRES
1/2" BLACK NEATLY
COILED WATERPROOF
SPICES.

#2 GRAVEL
6" DEEP



ELECTRIC VALVE DET.
NO SCALE

PRESSURE REDUCING
VALVE

FINISH
GRADE

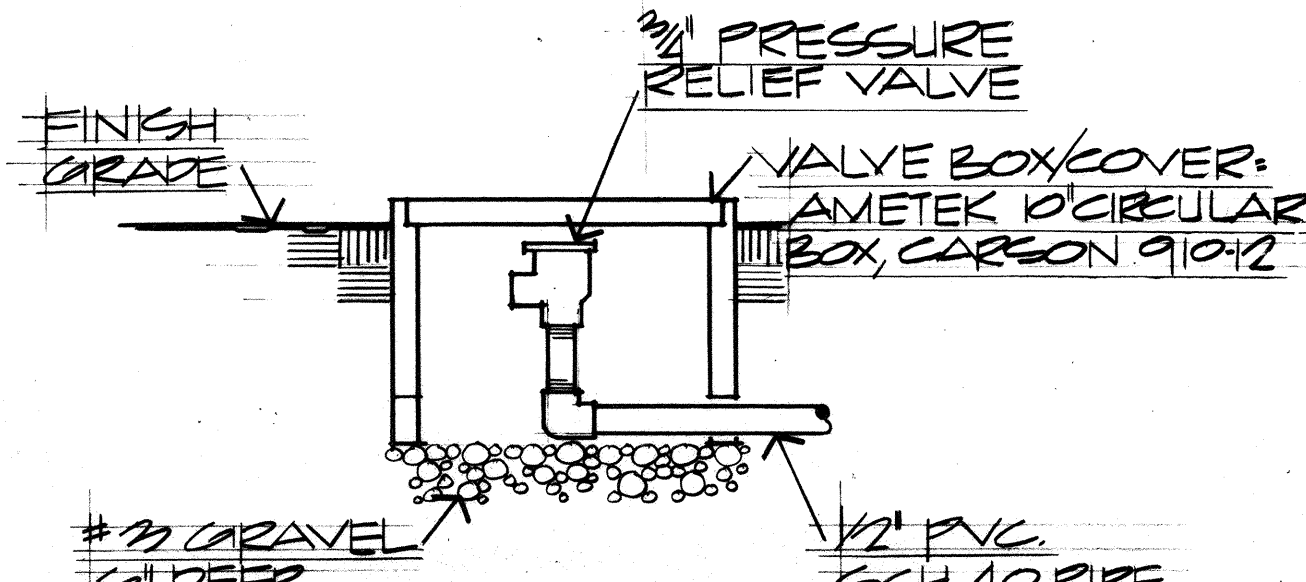
VALVE BOX/COVER:
AMETEK 12" STANDARD
CARSON 1419-13

PVC PIPE WITH
MALE ADAPTER

#2 GRAVEL
6" DEEP

PRESSURE REDUCING VALVE DET.
NO SCALE

CONNECTION OF RELIEF VALVES TO MAIN:
1. INSTALL PRESSURE RELIEF VALVE
AT END OF IRRIGATION MAIN.



RELIEF VALVE DET.
NO SCALE

DOUBLE CHECK
VALVE

COPPER 4"x3"
MALE ADAPTER

4" COPPER ELL

4" TYPE K HARD
COPPER PIPE

FINISH
GRADE

4" PVC PIPE WITH
MALE ADAPTER

COPPER
ELL

1 CUBIC FOOT
CONC. ANCHOR
BLOCK

NOTE:
THERE SHALL BE NO OBSTRUCTION WITHIN A DISTANCE OF
TWO (2) FEET SURROUNDING THE BACKFLOW PREVENTER.

BACKFLOW PREVENTER DET.
NO SCALE

1/2" SCH. 80 TXT
NIPPLE

5/8"x1/2" TEE

1/2" TXT ELL

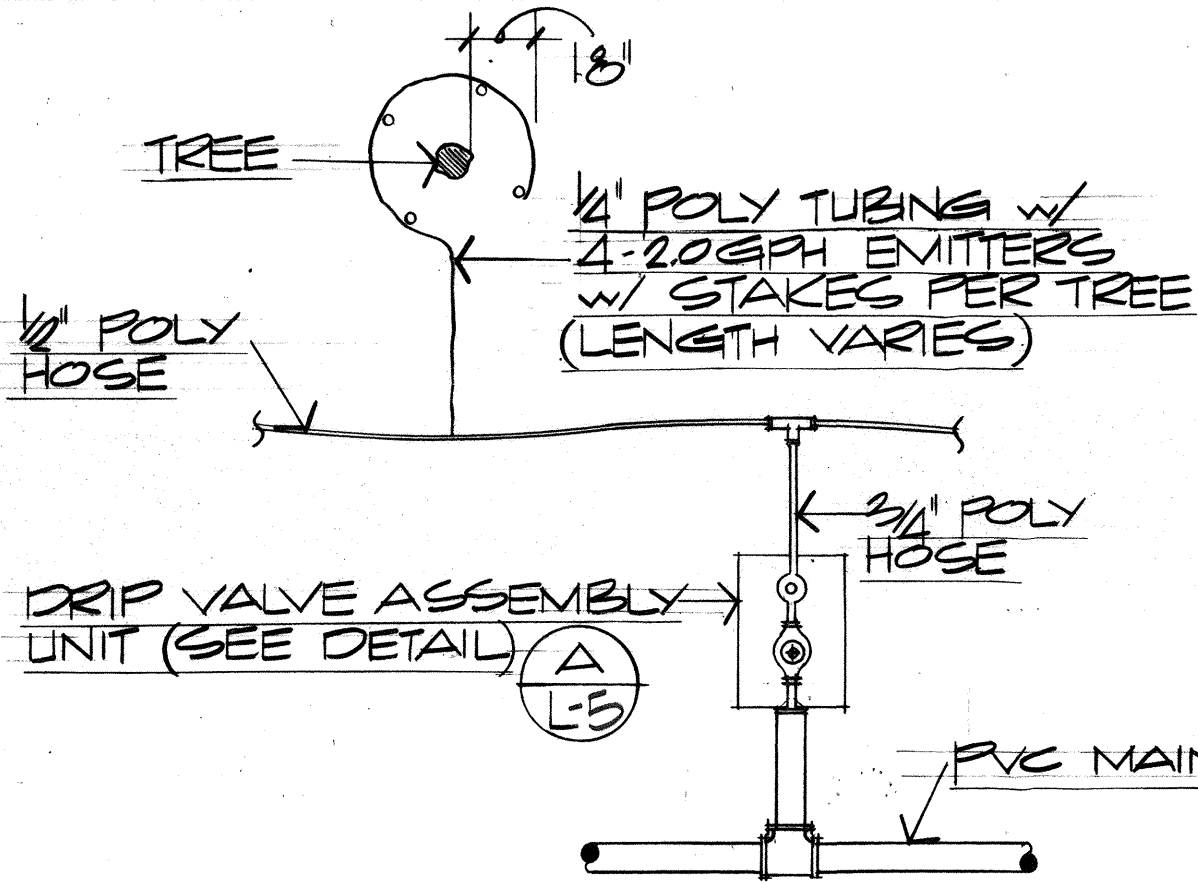
1" FLEXIBLE NIPPLE
FLEX-RISER FR 1990

ROTOR POP-UP
HEAD

FINISH
GRADE

1/2" SCH. 80 TXT
NIPPLE

ROTOR POP-UP HEAD DET.
NO SCALE



TYP. DRIP IRRIGATION SYSTEM DET.
NO SCALE

NOTE:
INSTALL ALL VALVES 1/2" MIN. TO 3/4" MAX.
FROM EDGE OF RIGHT-OF-WAY.



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION DETAILS

LIHUE AIRPORT
GATEWAY BEAUTIFICATION
PROJECT NO. LT-K-05-78 PHASE II-B

SCALE: NO SCALE DATE:

SHEET NO. L-4 OF 8 SHEETS