

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T-2001(18)	1972	19	44

LEGEND AND SPRINKLER HEAD SPECIFICATIONS						
NUMBER	SYMBOL	TYPE	PRESSURE	COVERAGE	FLOW	RISER
P-12H		Lawn Pop-Up Sprinkler - Half Circle	20	12' Radius	2.5	1/2" I.P.S.
		Water Meter and Meter Box				
S.V.		Shut-Off Valve and Valve Box				
AVB		Atmospheric Vacuum Breaker				
ACV		Angle Control Valve				

GENERAL NOTES FOR SPRINKLER SYSTEM

- See General Water Notes on Sht. 5
- The sprinkler system shown on the plan is diagrammatic only.
- Final location of new meters, valves and vacuum breakers shall be determined by the Engineer.
- Atmospheric vacuum breakers shall be installed a minimum of 6" above the highest sprinkler head, and on the discharge side of the valve, for the battery of sprinklers served. (See detail on sheet 20)
- Sprinkler lines shall be routed around or kept clear of existing utilities.
- Sprinkler lines installed above ground shall be galvanized pipe.
- For PVC pipe use class 160, Sch 40 or Sch 80 pipe. Minimum cover shall be 8 inches for solvent weld joints and 18 inches for push up type joints.

LEGEND AND SPRINKLER HEAD SPECIFICATION NOTES:

- "PRESSURE" is the operating pressure in pounds per square inch. This value must not be exceeded when operating at the tabulated flow and radius.
- "COVERAGE" of a sprinkler head refers to the minimum radius of coverage required at the tabulated pressure.
- "FLOW" is the maximum flow, in gallons per minute, which is discharged at the tabulated pressure.

ESTIMATED QUANTITIES:

Structural Excavation	28	C.Y.
1/2" Polyethylene Pipe	24	L.F.
3/4" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	16	L.F.
1" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	16	L.F.
1 1/4" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	60	L.F.
1 1/2" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	16	L.F.
2" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	136	L.F.
2 1/2" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	120	L.F.
3" Galv. Steel Pipe, Copper Pipe, or PVC Pipe	346	L.F.
P-12H Sprinkler Head	35	EA.
2" Angle Control Valve w/ Type A Valve Box	1	EA.
2" Shut-Off Valve w/ Type A Valve Box	1	EA.
2" Atmospheric Vacuum Breaker	2	EA.

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

Approved for cross-connection control requirements.

Talasila Iyengar
Board of Water Supply

3/5/73
Date

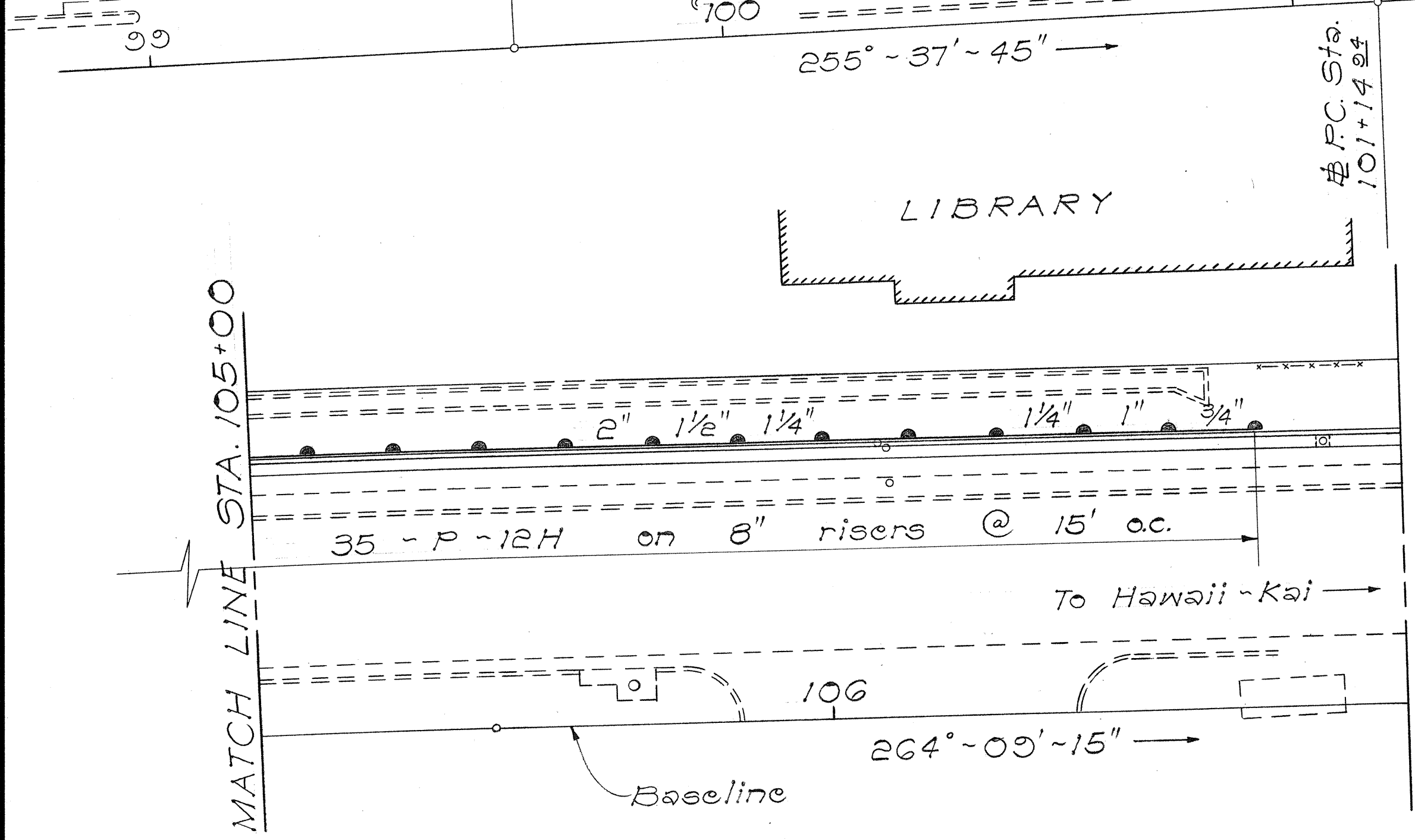
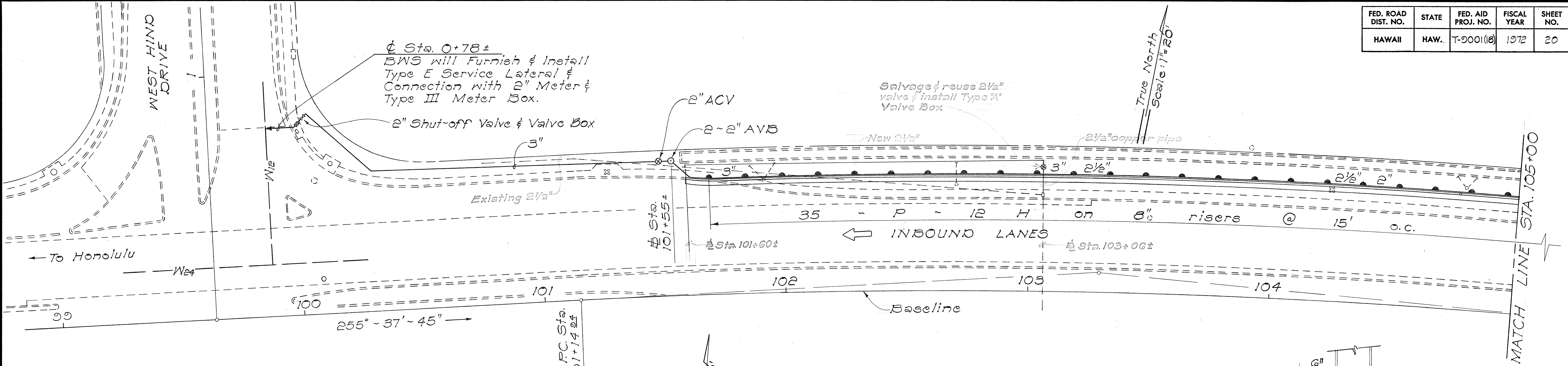
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
KALANIANA'OLE HIGHWAY
WIDENING
WEST HIND DRIVE TO KIRKWOOD ST
F.A.T. Proj. No. T-2001(18)

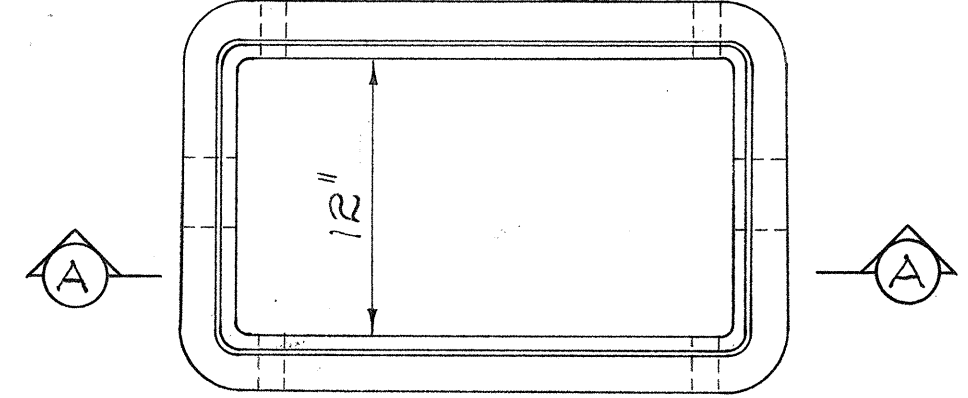
Date: Feb. 1973

SHEET No. 1 OF 2 SHEETS

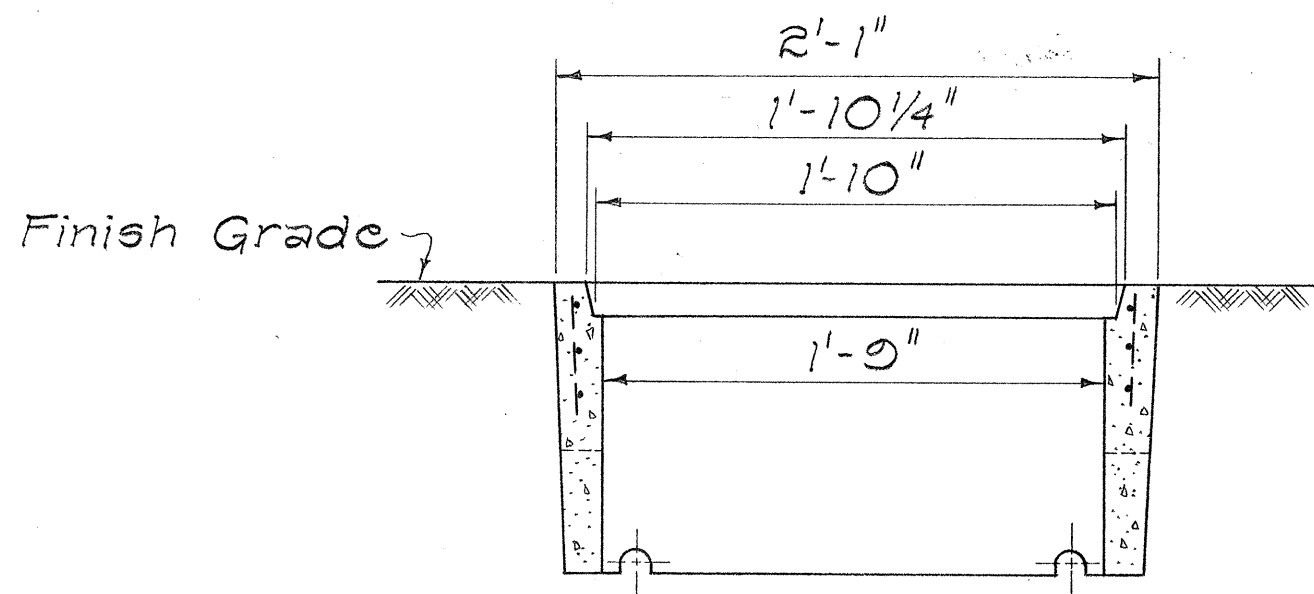
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T-9001(18)	1972	20	44



True North
Scale: 1"=20'



PLAN

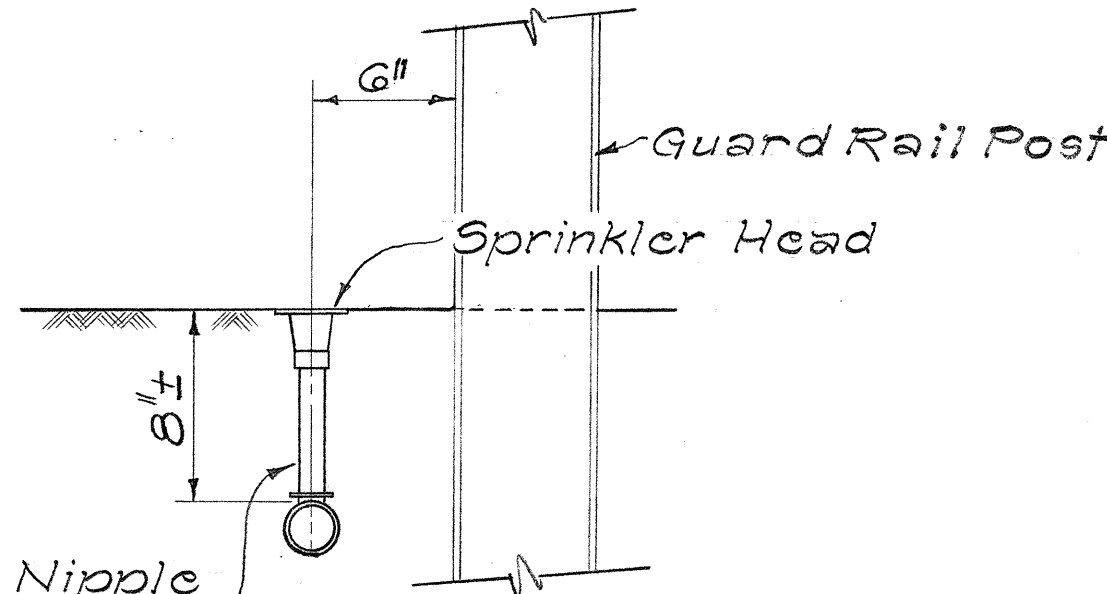


SECTION "A-A"

- NOTE:**
1. The Type "A" Valve Box is similar to a Honolulu Board of Water Supply Type "X" Meter Box. Use the same type of Cast Iron Cover as the Type "X" Meter Box, however, instead of the words "Board of Water Supply" and "Water Meter", imprint the words "Sprinkler Valve" on the cover.
 2. Locate the sprinkler valve at a sufficient depth in the Valve Box to make it operable with the cover in place.

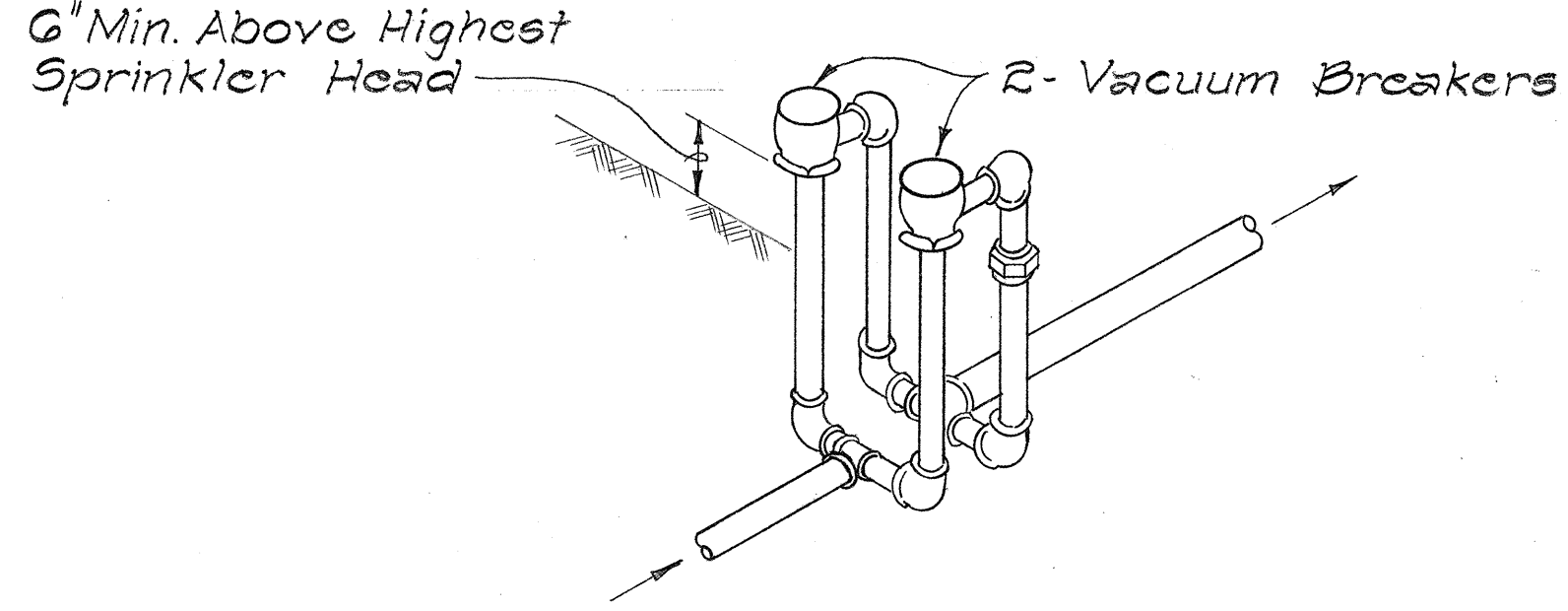
TYPE "A" VALVE BOX

Not to Scale



TYPICAL DETAIL OF SPRINKLER HEAD AT CONCRETE CURB

Not to Scale



VACUUM BREAKER DETAIL

Not to Scale

DATE	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
IN	_____

PIPING SCHEMATIC DIAGRAM

Approved for cross-connection control requirements.
Tahuli Inyang
Board of Water Supply
3/8/73
Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
KALANIANA'OLE HIGHWAY
WIDENING
WEST HIND DRIVE TO KIRKWOOD ST
F.A.T. Proj. No. T-9001(18)
As Shown Date: Feb. 1973