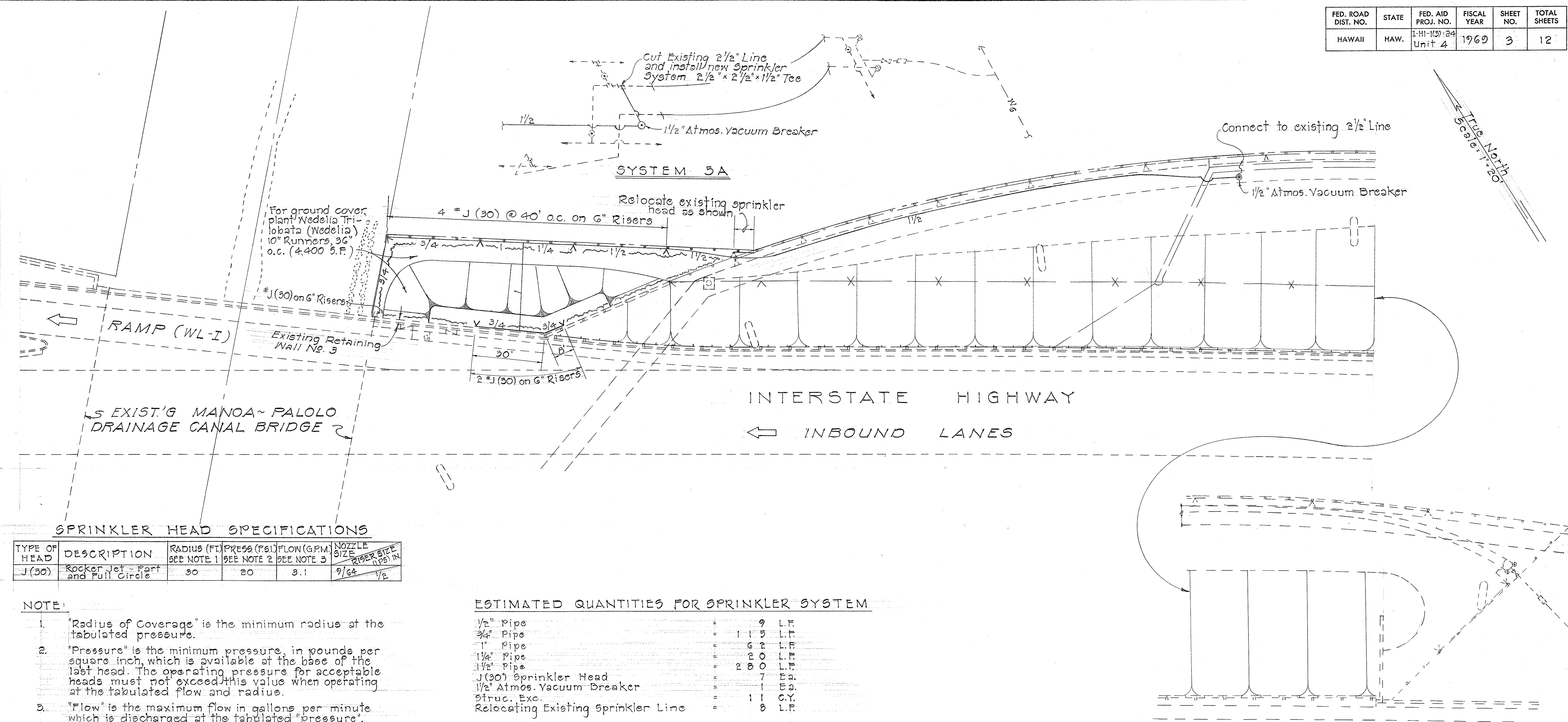


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|---------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | I-HI-1(5)-24 Unit 4 | 1969        | 3         | 12           |



SPRINKLER HEAD SPECIFICATIONS

| TYPE OF HEAD | DESCRIPTION                       | RADIUS (FT.)<br>SEE NOTE 1 | PRESS (PSI)<br>SEE NOTE 2 | FLOW (GPM)<br>SEE NOTE 3 | NOZZLE SIZE<br>RISER SIZE<br>(IPS) IN. |
|--------------|-----------------------------------|----------------------------|---------------------------|--------------------------|----------------------------------------|
| J (30)       | Rocker Jet - Part and Full Circle | 30                         | 20                        | 3.1                      | 7/64<br>1/2                            |

- NOTE:
- "Radius of Coverage" is the minimum radius at the tabulated pressure.
  - "Pressure" is the minimum pressure, in pounds per square inch, which is available at the base of the last head. The operating pressure for acceptable heads must not exceed this value when operating at the tabulated flow and radius.
  - "Flow" is the maximum flow in gallons per minute which is discharged at the tabulated "pressure".

ESTIMATED QUANTITIES FOR SPRINKLER SYSTEM

|                                    |   |    |      |
|------------------------------------|---|----|------|
| 1/2" Pipe                          | = | 9  | L.F. |
| 3/4" Pipe                          | = | 11 | L.F. |
| 1" Pipe                            | = | 6  | L.F. |
| 1 1/4" Pipe                        | = | 20 | L.F. |
| 1 1/2" Pipe                        | = | 28 | L.F. |
| J (30) Sprinkler Head              | = | 7  | EA.  |
| 1 1/2" Atmos. Vacuum Breaker       | = | 1  | EA.  |
| Struc. Exc.                        | = | 1  | C.Y. |
| Relocating Existing Sprinkler Line | = | 8  | L.F. |

GENERAL NOTES

- All pipes are to be galvanized iron screw pipes, and all fittings are to be galvanized malleable iron fittings.
- All backflow preventers (atmospheric vacuum breakers) shall be installed in accordance with the Plumbing Code of the City and County of Honolulu.
- After complete installation of the sprinkler system, each sprinkler head shall be adjusted to the satisfaction of the Engineer.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SPRINKLER SYSTEM AND  
LANDSCAPING**

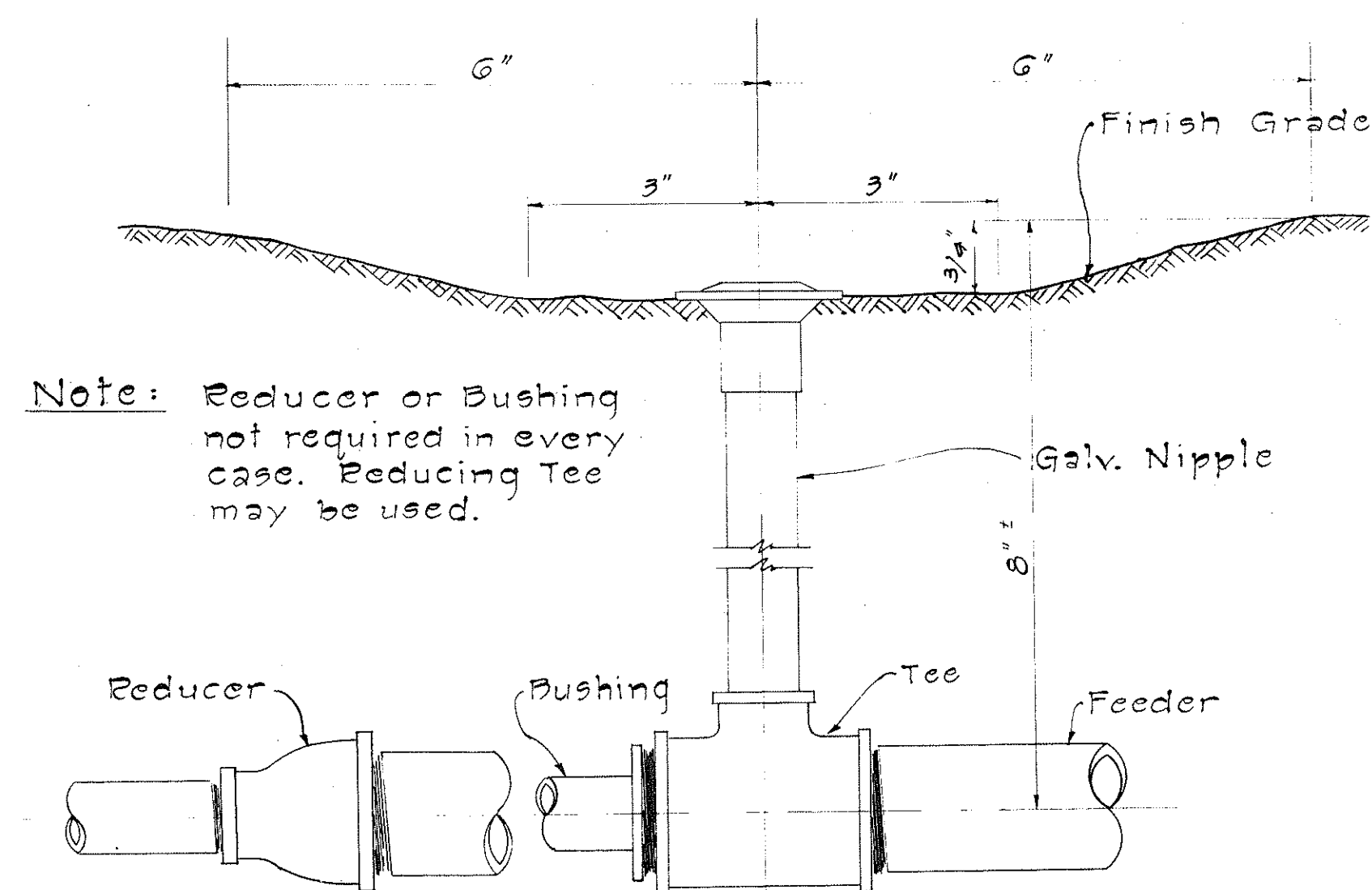
F.A.I. Proj. No. I-HI-1(5)-24 Unit 4

Scale: As Noted Date: Dec. 16, 1968

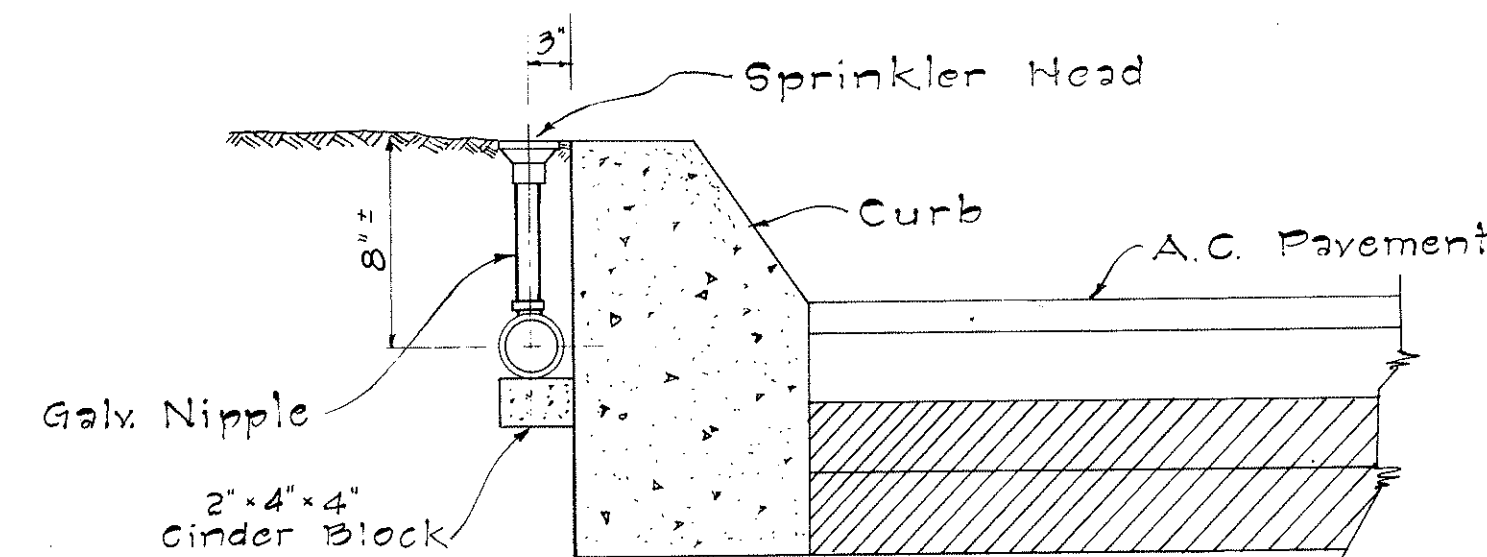
SHEET No. OF SHEETS

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

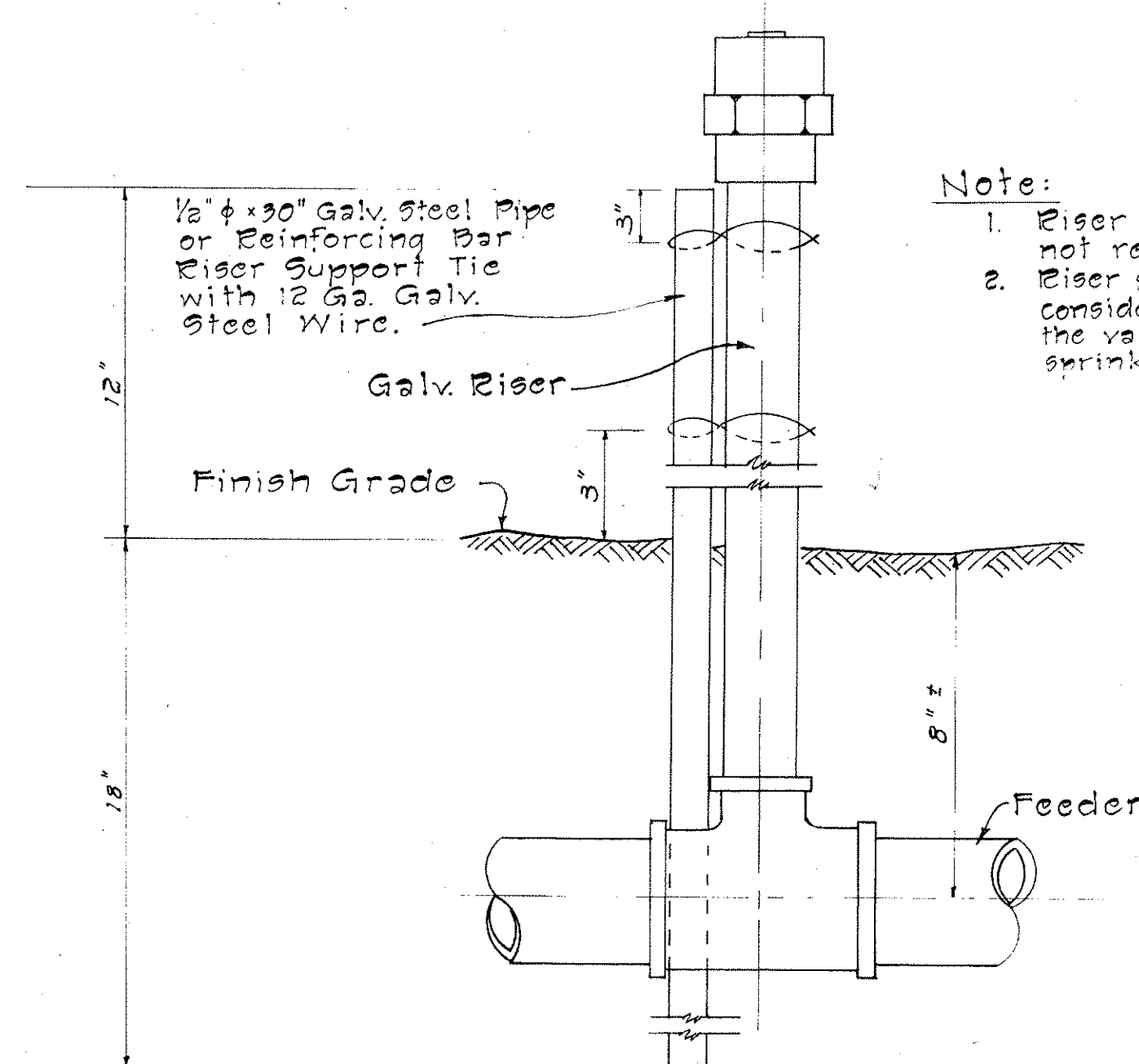




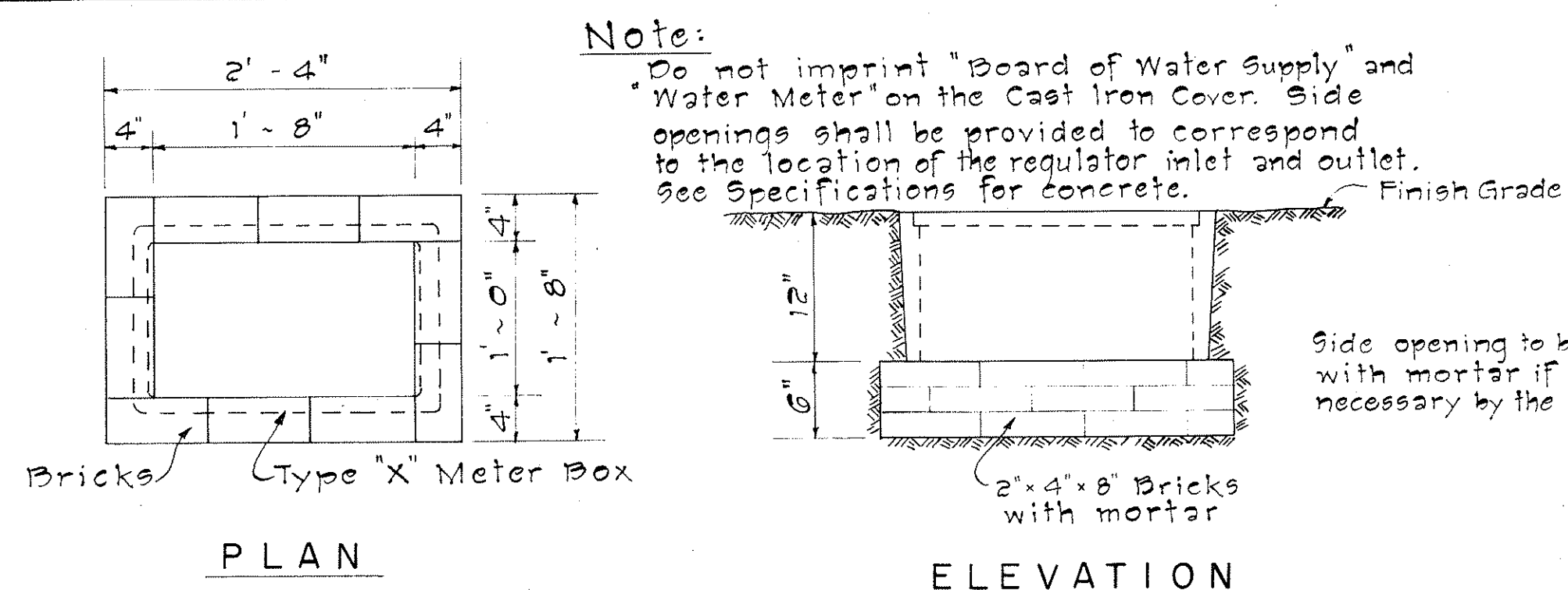
**CONNECTION OF SPRINKLER HEAD TO FEEDER**  
Not to Scale



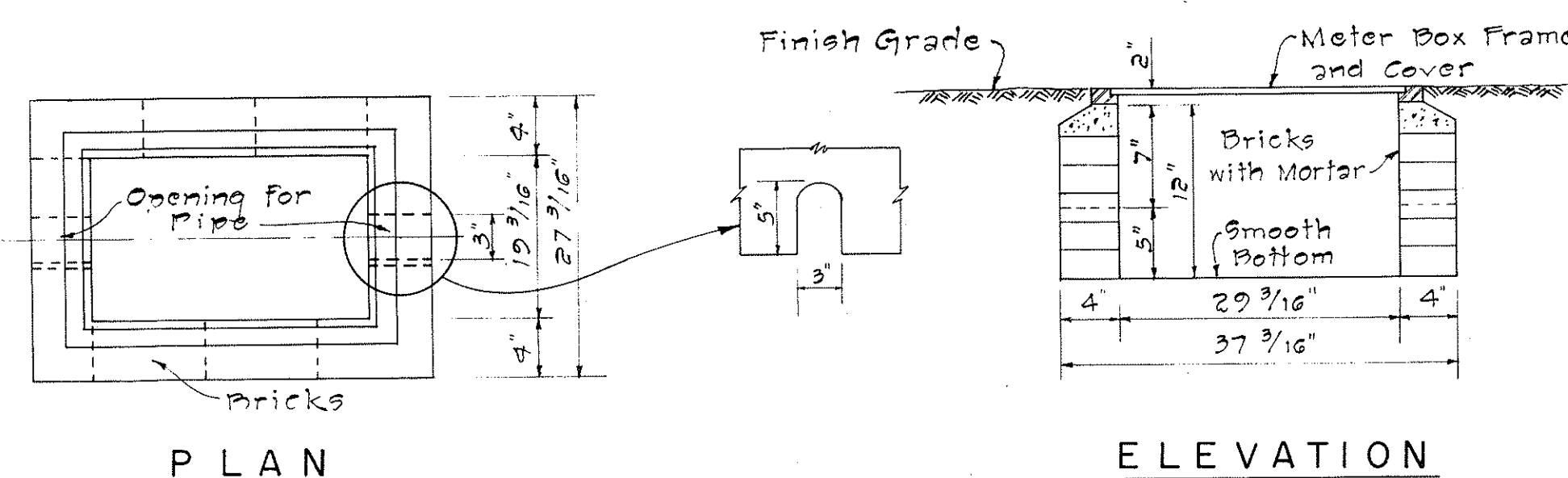
**TYPICAL DETAIL OF SPRINKLER HEAD AT CONC. CURB**  
Not to Scale



**DETAIL OF SPRINKLER HEAD ON RISER**  
Not to Scale

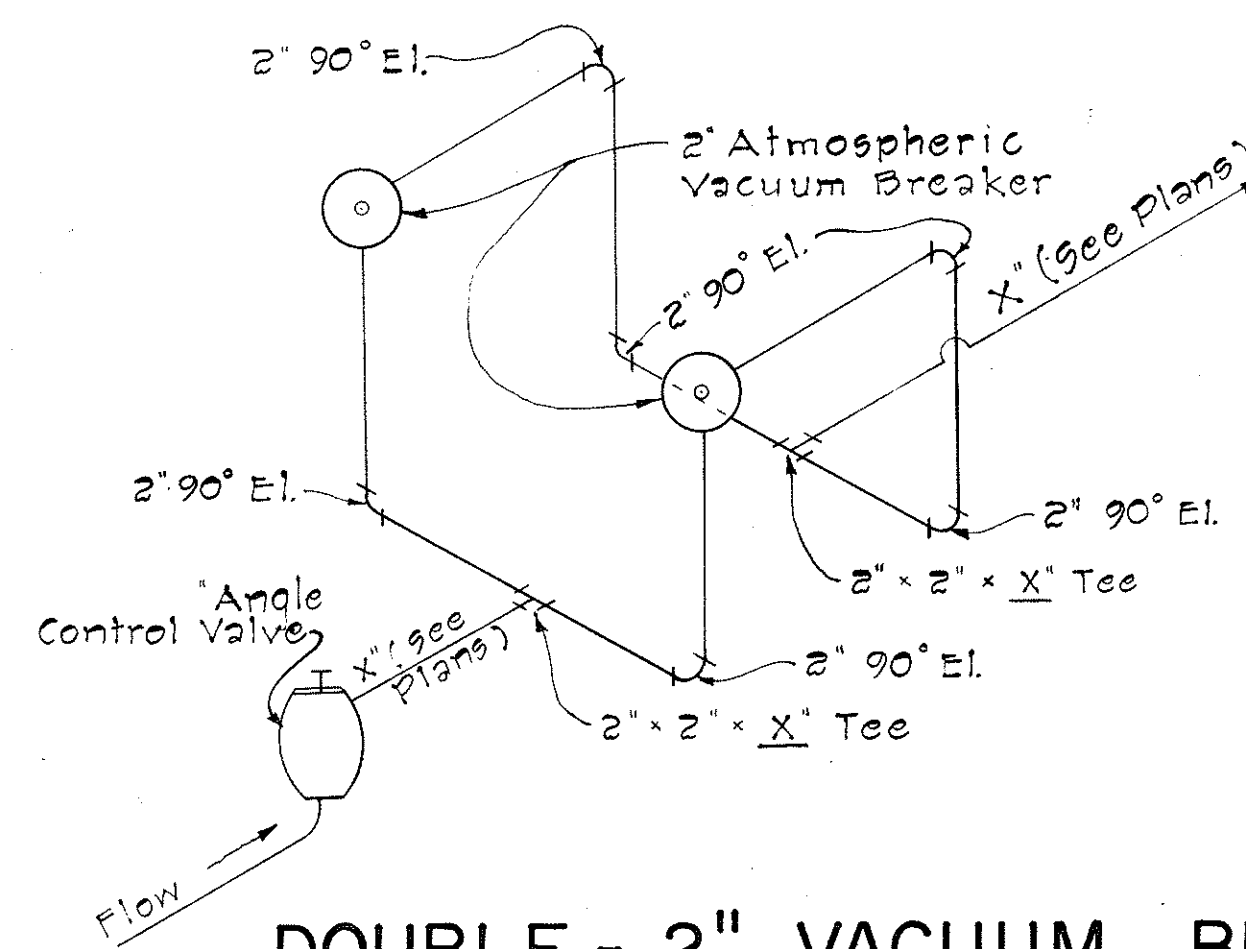


**PRESSURE REGULATOR BOX**  
Not to Scale

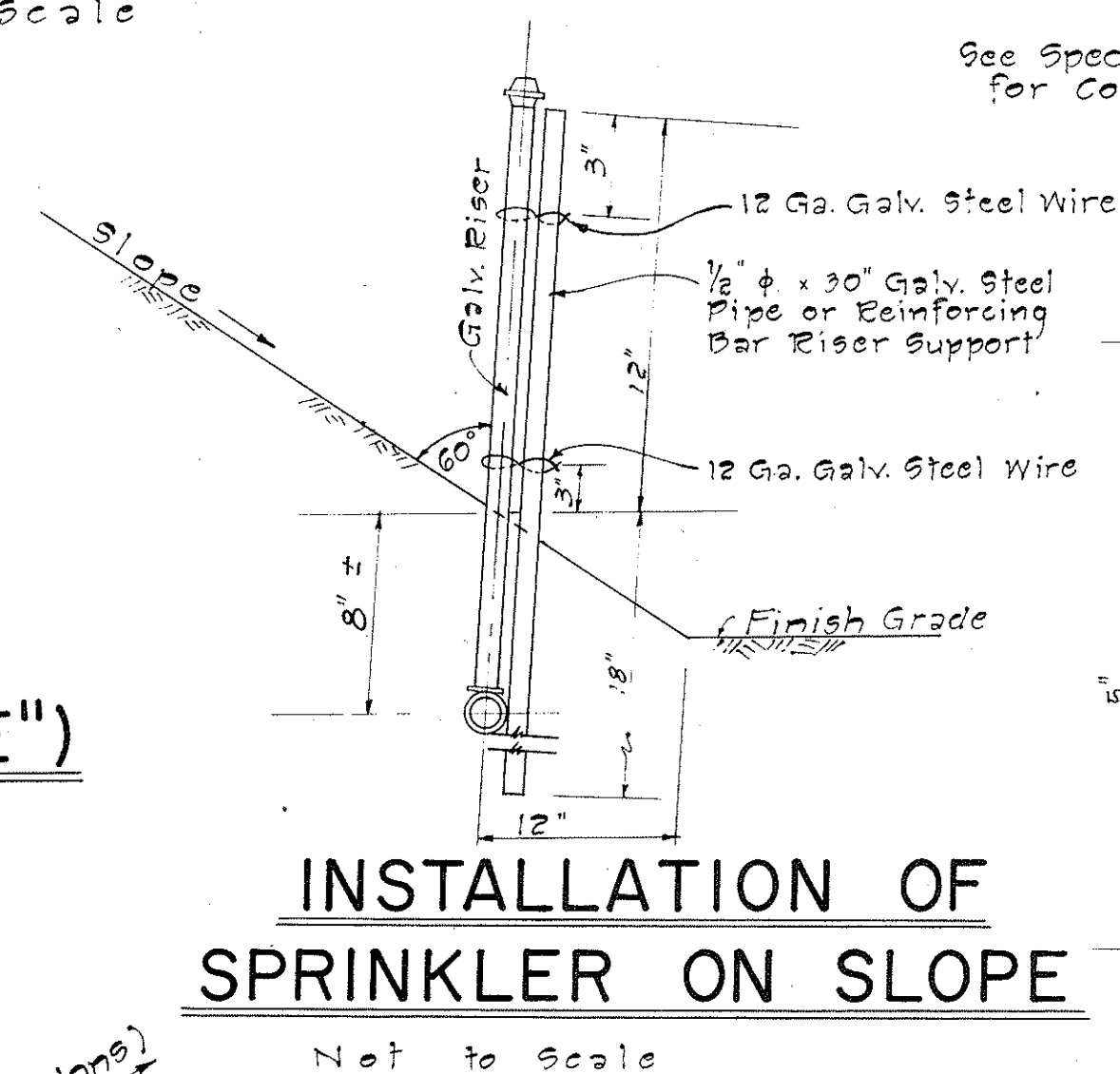


**TYPE III METER BOX**  
Not to Scale

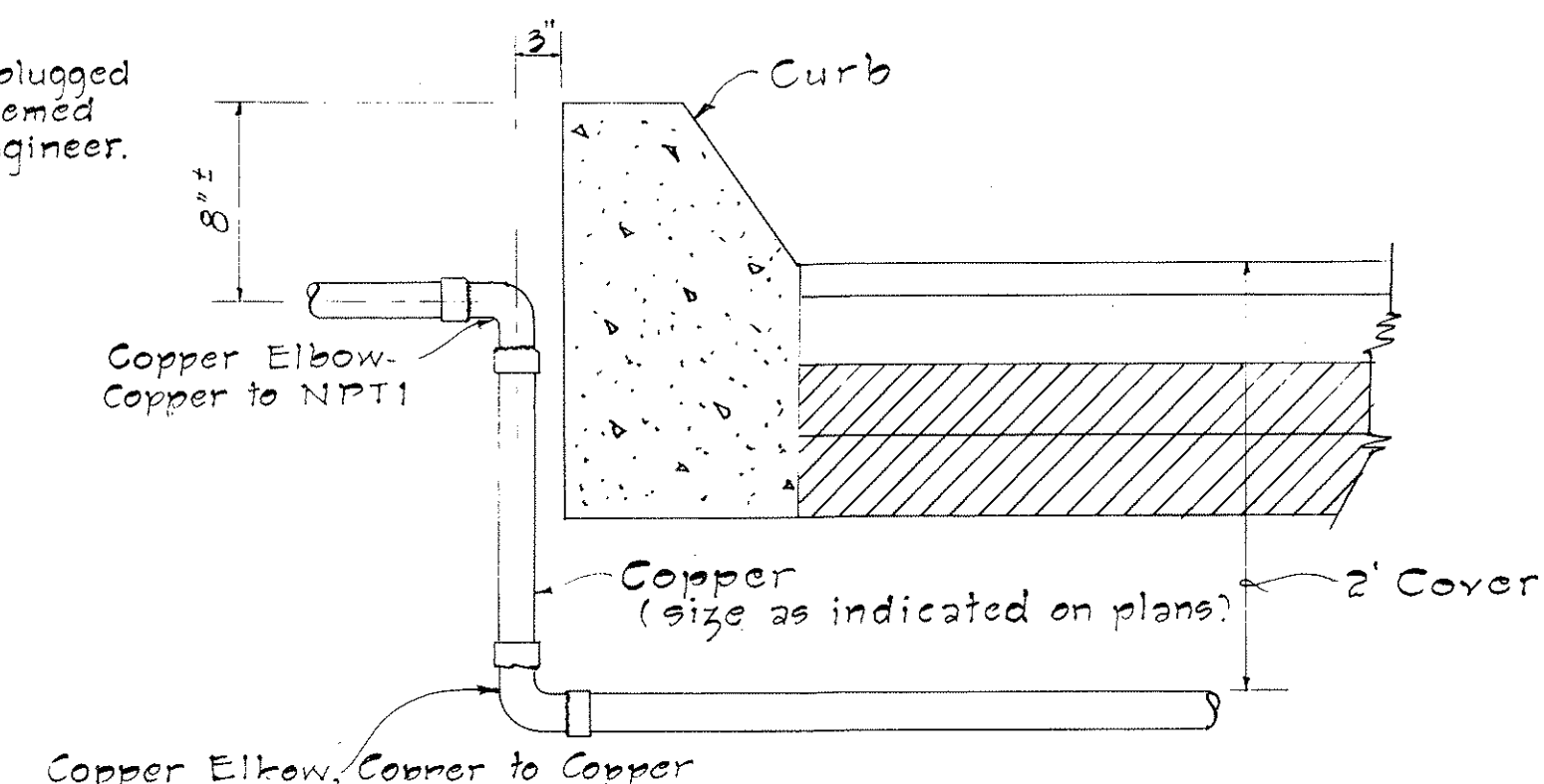
**TYPICAL LAYOUT OF 2 1/2" SERVICE LATERAL AND CONNECTION (TYPE "E")**  
Not to Scale



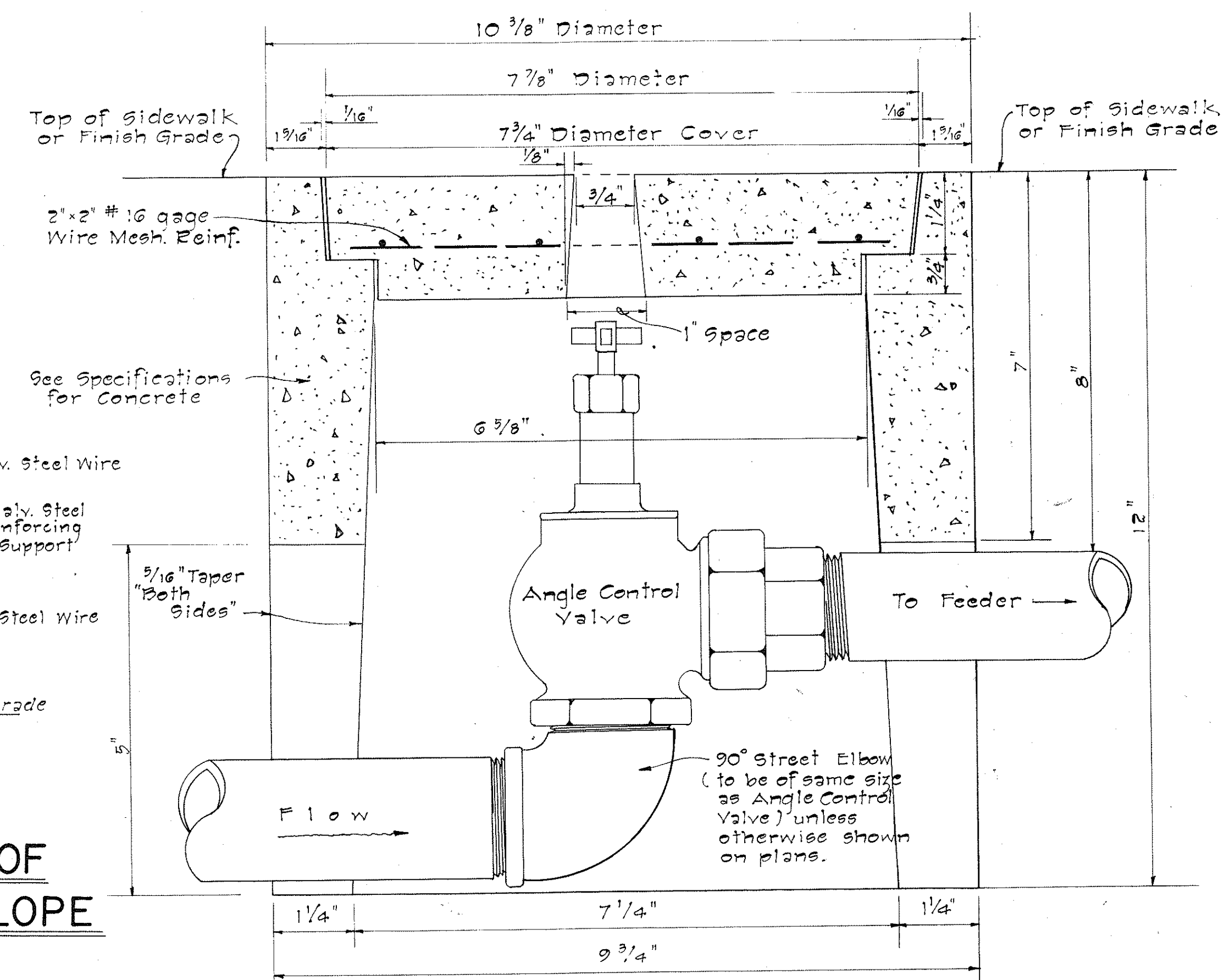
**DOUBLE - 2" VACUUM BREAKER (ATMOSPHERIC TYPE)**  
Not to Scale



**INSTALLATION OF SPRINKLER ON SLOPE**  
Not to Scale



**TYPICAL DETAIL OF ROADWAY CROSSING**  
Not to Scale



**TYPE "A" VALVE BOX**  
Not to Scale

**Notes:**

1. Location of side openings shall correspond to the location of the valve inlet and valve outlet.
2. When the angle control valve is located in the sidewalk area, the valve shall be located at a sufficient depth so as to allow the cover to be replaced with the valve wide open.

STATE OF HAWAII  
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**SPRINKLER DETAILS**

INTERSTATE HIGHWAY (LUNALILO FREEWAY)  
F.A.I. Proj. No. I-HI-1(5)24, Unit 4

Scale: As Shown Date: Dec. 16, 1968

SHEET No. OF SHEETS