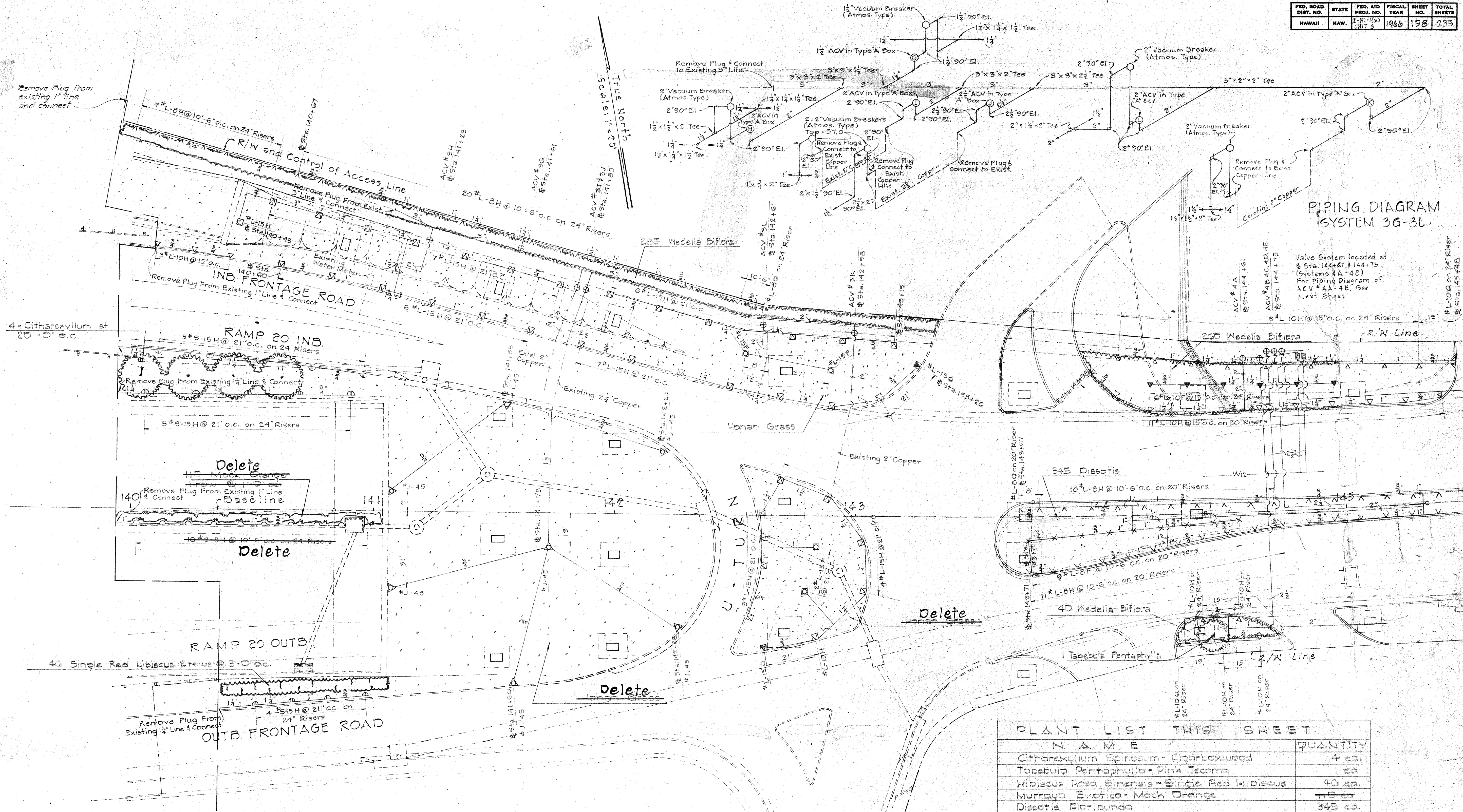


DESIGNED BY
CHECKED BY
DATE
ORIGINAL PLAN
FRAMED BY
NOTED BOOK
NO.

LEGEND											
SYM.	NUMBER	TYPE	PRESSURE	COVERAGE	G.P.M.	RISER	SYM.	NUMBER	TYPE	PRESSURE	COVERAGE
X	L-8F	LAWN-FULL CIRCLE	10	16' DIAMETER	2.0	1" IPS	☐	L-15F	LAWN-FULL CIRCLE	30	30' DIAMETER
V	L-8H	LAWN-HALF CIRCLE	10	8' RADIUS	1.0	1" IPS	☐	L-15H	LAWN-HALF CIRCLE	30	15' RADIUS
∇	L-8Q	LAWN-QUARTER CIRCLE	10	8' RADIUS	0.9	1" IPS	☐	L-15Q	LAWN-QUARTER CIRCLE	30	15' RADIUS
▼	L-10F	LAWN-FULL CIRCLE	20	20' DIAMETER	3.0	1" IPS	☐	L-40F	ROTARY-FULL CIR. ALL BRASS	40	80' DIAMETER
▽	L-10H	LAWN-HALF CIRCLE	20	10' RADIUS	2.5	1" IPS	☐	L-50H	ROTARY-PART CIR. ALL BRASS	50	50' RADIUS
∇	L-10Q	LAWN-QUARTER CIRCLE	20	10' RADIUS	2.0	1" IPS	☐	J-35	ROCKER JET-PART CIRCLE	35	35' RADIUS
O	S-8F	SHRUBBERY-FULL CIRCLE	10	16' DIAMETER	2.0	1" IPS	Δ	J-45	ROCKER JET-PART CIRCLE	40	45' RADIUS
⊙	S-8H	SHRUBBERY-HALF CIRCLE	10	8' RADIUS	1.0	1" IPS	⊙	J-50	ROCKER JET-PART CIRCLE	45	50' RADIUS
⊙	S-8Q	SHRUBBERY-QTR. CIRCLE	10	8' RADIUS	0.9	1" IPS	⊙		CONTROL VALVE W/UNION AND VACUUM BREAKER		
▲	S-10H	SHRUBBERY-HALF CIRCLE	20	10' RADIUS	2.5	1" IPS	⊙		WATER METER		
▲	S-10Q	SHRUBBERY-QTR. CIRCLE	20	10' RADIUS	2.0	1" IPS	⊙		WATER MAIN		
							—		TO STRUCTURE #21 FOR 4 PLANT BOXES (TOTAL 3)		

NOTE: * VACUUM BREAKER IN ACCORDANCE WITH CITY AND COUNTY PLUMBING CODE

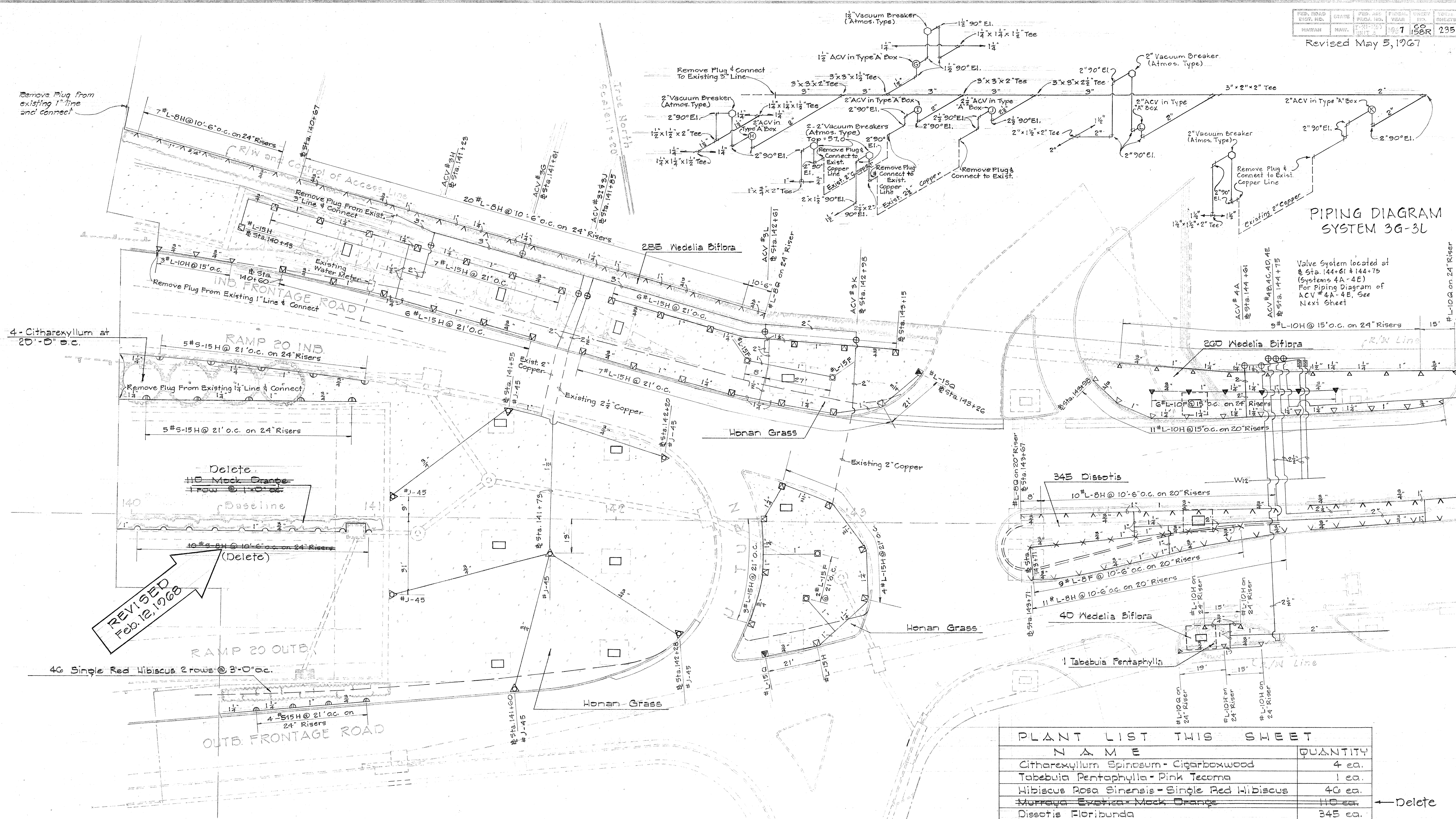


PLANT LIST THIS SHEET	
N A M E	QUANTITY
Citharexylum Spinosum - Cigarboxwood	4 ea.
Tabebuia Pentaphylla - Pink Tecoma	1 ea.
Hibiscus Rosa Sinensis - Single Red Hibiscus	40 ea.
Murraya Exotica - Mock Orange	1 ea.
Dioscorea Biflora	345 ea.
Wedelia Biflora	555 ea.
Eremochloa Ophiuroides - Honan Grass	25,800' ±

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING & SPRINKLER PLAN
@ STA. 139+95 TO 144+50
INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-H-1(6) UNIT 3
SCALE: 1"=20' DATE: AUG. 1966
SHEET No. 1 OF 2 SHEETS

DATE
DESIGNED BY
CHECKED BY
NOTED BY
PLANNED BY
SURVEYED BY
DRAWN BY
ORIGINAL PLAN
NOTE BOOK
QUANTITIES BY
CHECKED BY



PIPING DIAGRAM SYSTEM 3G-3L

Valve System located at Sta. 144+61 & 144+75 (Systems 4A-4E) For Piping Diagram of ACV #4A-4E, See Next Sheet

REVISED Feb. 12, 1968

LEGEND

SYM.	NUMBER	TYPE	PRESSURE	COVERAGE	G.P.M.	RISER	SYM.	NUMBER	TYPE	PRESSURE	COVERAGE	G.P.M.	RISER
X	L-8F	LAWN-FULL CIRCLE	10	16' DIAMETER	2.0	1/2" IPS	☐	L-15F	LAWN-FULL CIRCLE	30	30' DIAMETER	5.0	1/2" IPS
∇	L-8H	LAWN-HALF CIRCLE	10	8' RADIUS	1.0	1/2" IPS	☐	L-15H	LAWN-HALF CIRCLE	30	15' RADIUS	3.0	1/2" IPS
∇	L-8Q	LAWN-QUARTER CIRCLE	10	8' RADIUS	0.9	1/2" IPS	☐	L-15Q	LAWN-QUARTER CIRCLE	30	15' RADIUS	2.5	1/2" IPS
∇	L-10F	LAWN-FULL CIRCLE	20	20' DIAMETER	3.0	1/2" IPS	☐	L-40F	ROTARY-FULL CIR. ALL BRASS	40	80' DIAMETER	4.6	3/4" IPS
∇	L-10H	LAWN-HALF CIRCLE	20	10' RADIUS	2.5	1/2" IPS	☐	L-50H	ROTARY-PART CIR. ALL BRASS	50	50' RADIUS	9.8	1" IPS
∇	L-10Q	LAWN-QUARTER CIRCLE	20	10' RADIUS	2.0	1/2" IPS	☐	J-35	ROCKER JET-PART CIRCLE	35	35' RADIUS	4.0	1/2" IPS
○	S-8F	SHRUBBERY-FULL CIRCLE	10	16' DIAMETER	2.0	1/2" IPS	☐	J-45	ROCKER JET-PART CIRCLE	40	45' RADIUS	6.0	3/4" IPS
○	S-8H	SHRUBBERY-HALF CIRCLE	10	8' RADIUS	1.0	1/2" IPS	☐	J-50	ROCKER JET-PART CIRCLE	45	50' RADIUS	11.0	3/4" IPS
○	S-8Q	SHRUBBERY-QTR. CIRCLE	10	8' RADIUS	0.9	1/2" IPS	☐		CONTROL VALVE W/UNION AND VACUUM BREAKER*				
○	S-10H	SHRUBBERY-HALF CIRCLE	20	10' RADIUS	2.5	1/2" IPS	☐		WATER METER				
○	S-10Q	SHRUBBERY-QTR. CIRCLE	20	10' RADIUS	2.0	1/2" IPS	☐		WATER MAIN				
									TO STRUCTURE #21 FOR 4 PLANT BOXES (TOTAL 3)				

NOTE: * VACUUM BREAKER IN ACCORDANCE WITH CITY AND COUNTY PLUMBING CODE

PLANT LIST THIS SHEET

N A M E	QUANTITY
Citharexylum Spinosum - Cigarboxwood	4 ea.
Tabebuia Pentaphylla - Pink Tecoma	1 ea.
Hibiscus Rosa Sinensis - Single Red Hibiscus	40 ea.
Murraya Exotica - Mock Orange	110 ea. ← Delete
Dissotis Floribunda	345 ea.
Wedelia Biflora	585 ea.
Eremochloa Ophiuroides - Honan Grass	23,807 #

SEE PREVIOUS SHEET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING & SPRINKLER PLAN

Sta. 139+95 TO 144+50

INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-H-1(6) UNIT 3

SCALE: 1"=20' DATE: MAY 1967

SHEET No. 1 OF 2 SHEETS

C O I S R

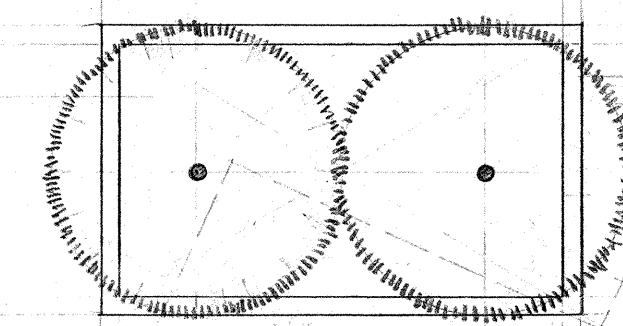
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111-1(6)	1966	159	235

SHOPS

400N

PARKING

Fill each plant box to 4' of top with top soil mixture of 5 parts blacksand, 1 part black magnesium soil, 1/2 part steer manure. Mix into top 12" of soil, 10 lbs. specified fertilizer.



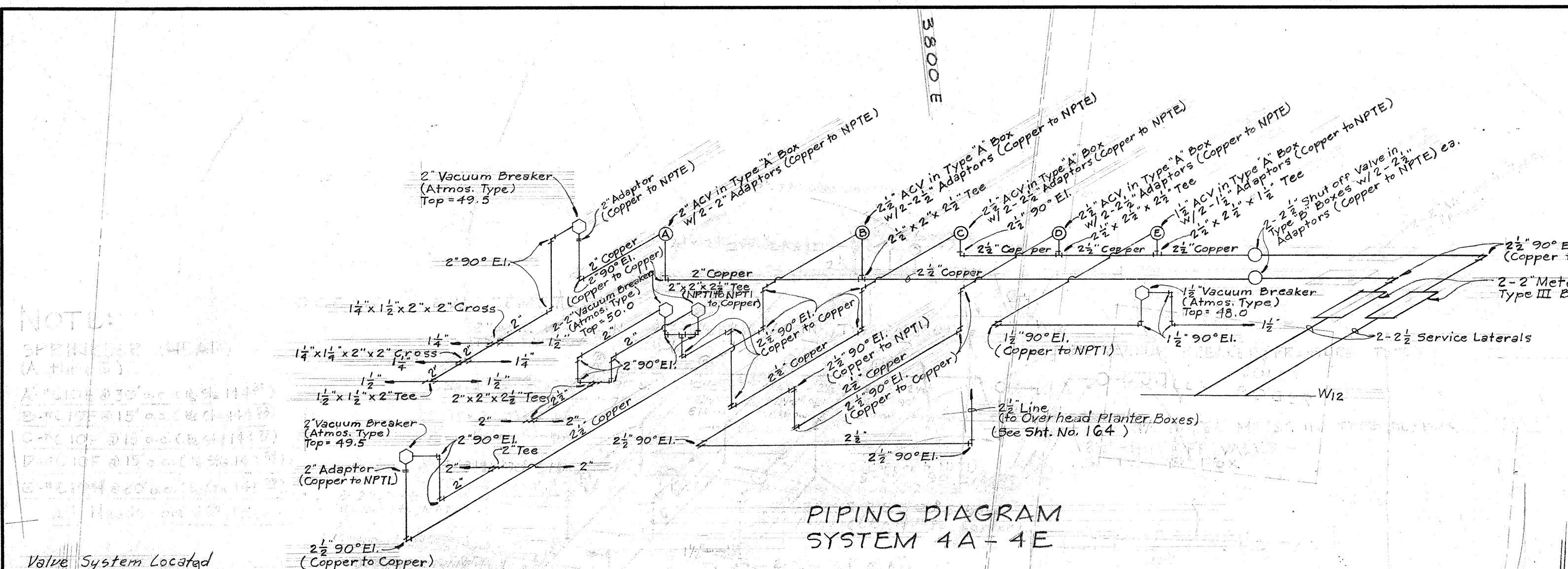
NOTE:
See Structural Plans for plant box detail.

2 Eucalyptus Ficifolia
12'-0" apart

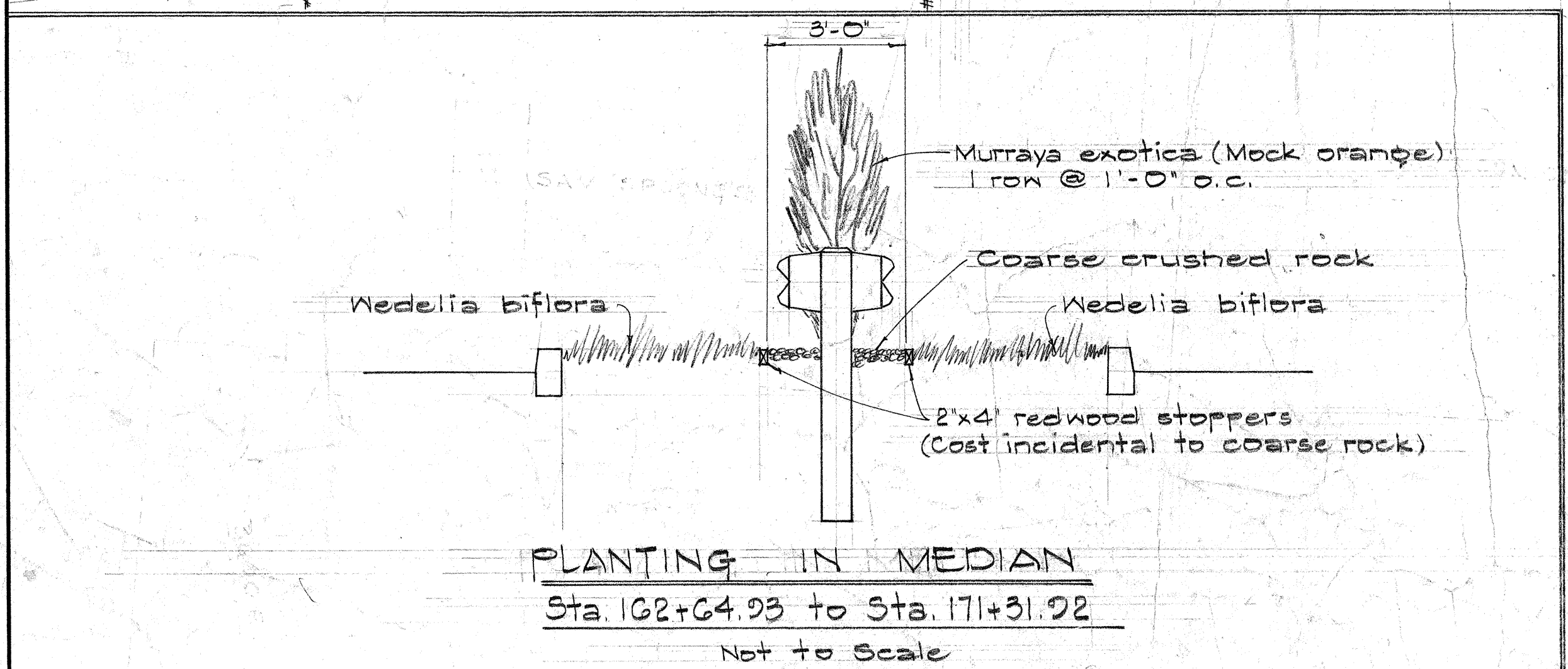
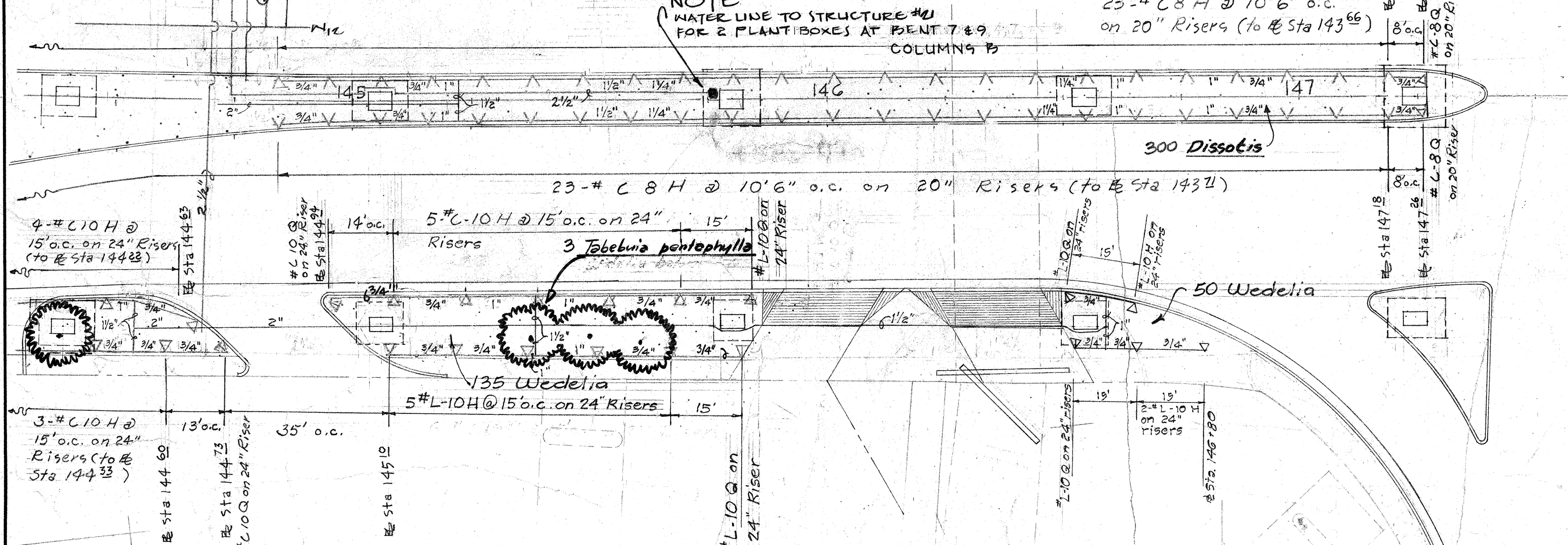
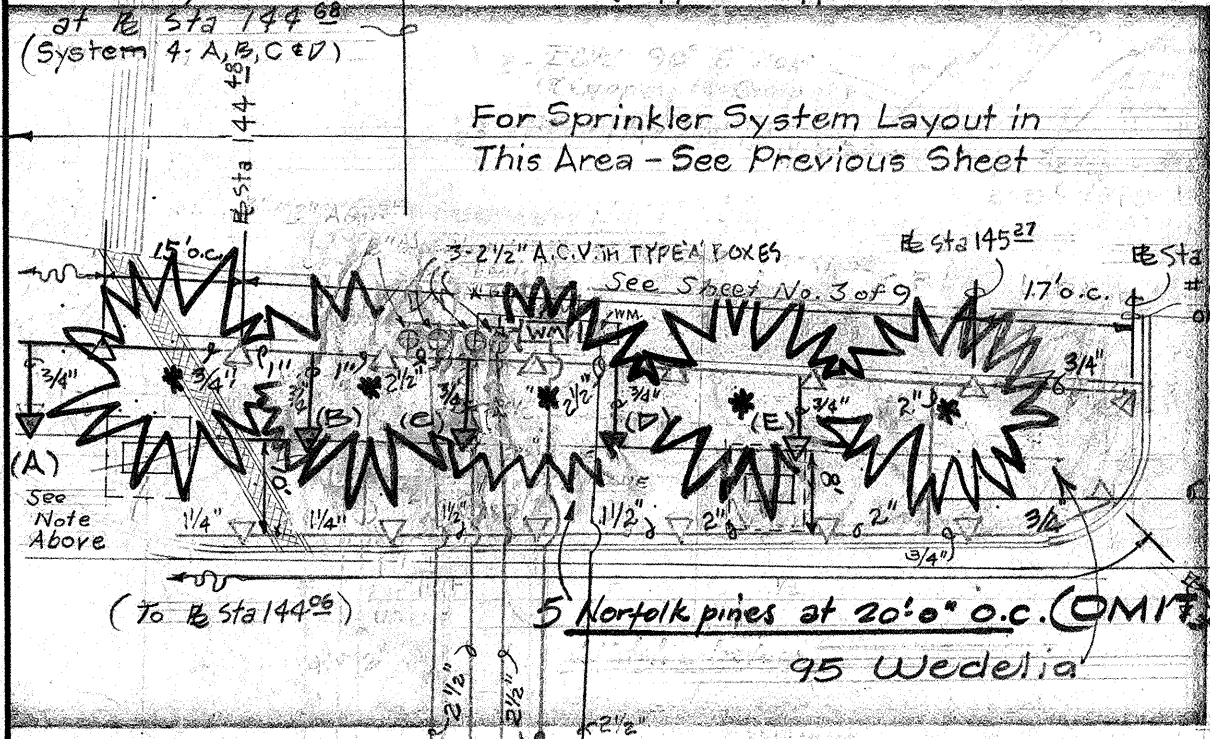
TYPICAL PLANT BOX

ON STRUCTURE 21
(Ten Required)

Total plant box plant requirement:
20 Eucalyptus Ficifolia
250 Wedelia Biflora



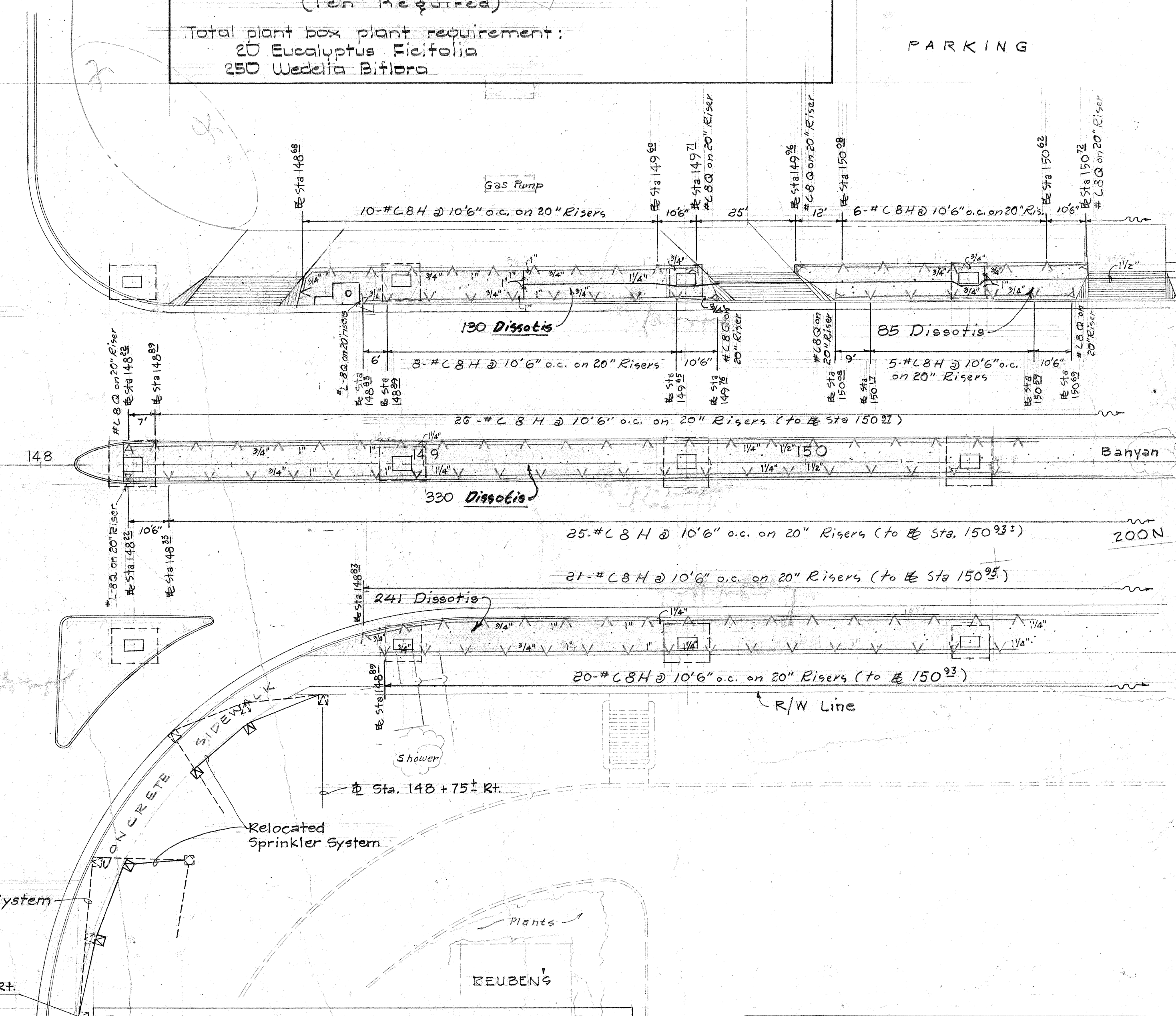
PIPING DIAGRAM SYSTEM 4A-4E



PLANTING IN MEDIAN Sta. 162+03 to Sta. 171+31.22

Not to Scale

HUNAKAI ST. EXTENSION



PLANT LIST THIS SHEET	
N A M E	QUANTITY
Arbutus Arbutus-Norfolk Pine	5 ea. (OMIT)
Tabebuia Pentaphylla-Pink Tecoma	3 ea.
Dieffenbachia	1,030 ea.
Wedelia Biflora	740 ea.
Eucalyptus Ficifolia-Red Flowering Gum	20 ea.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING & SPRINKLER PLAN

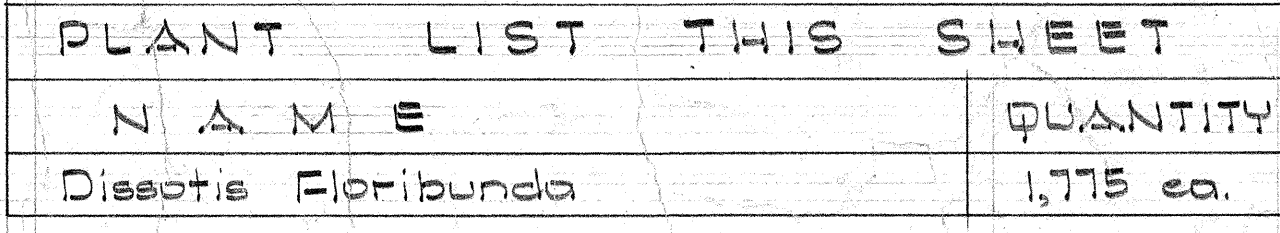
Sta. 144+50 TO 150+50

INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-HI-1(6) UNIT 3

SCALE: 1"=20' DATE: Aug. 1966

SHEET No. 2 OF 9 SHEETS

159



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

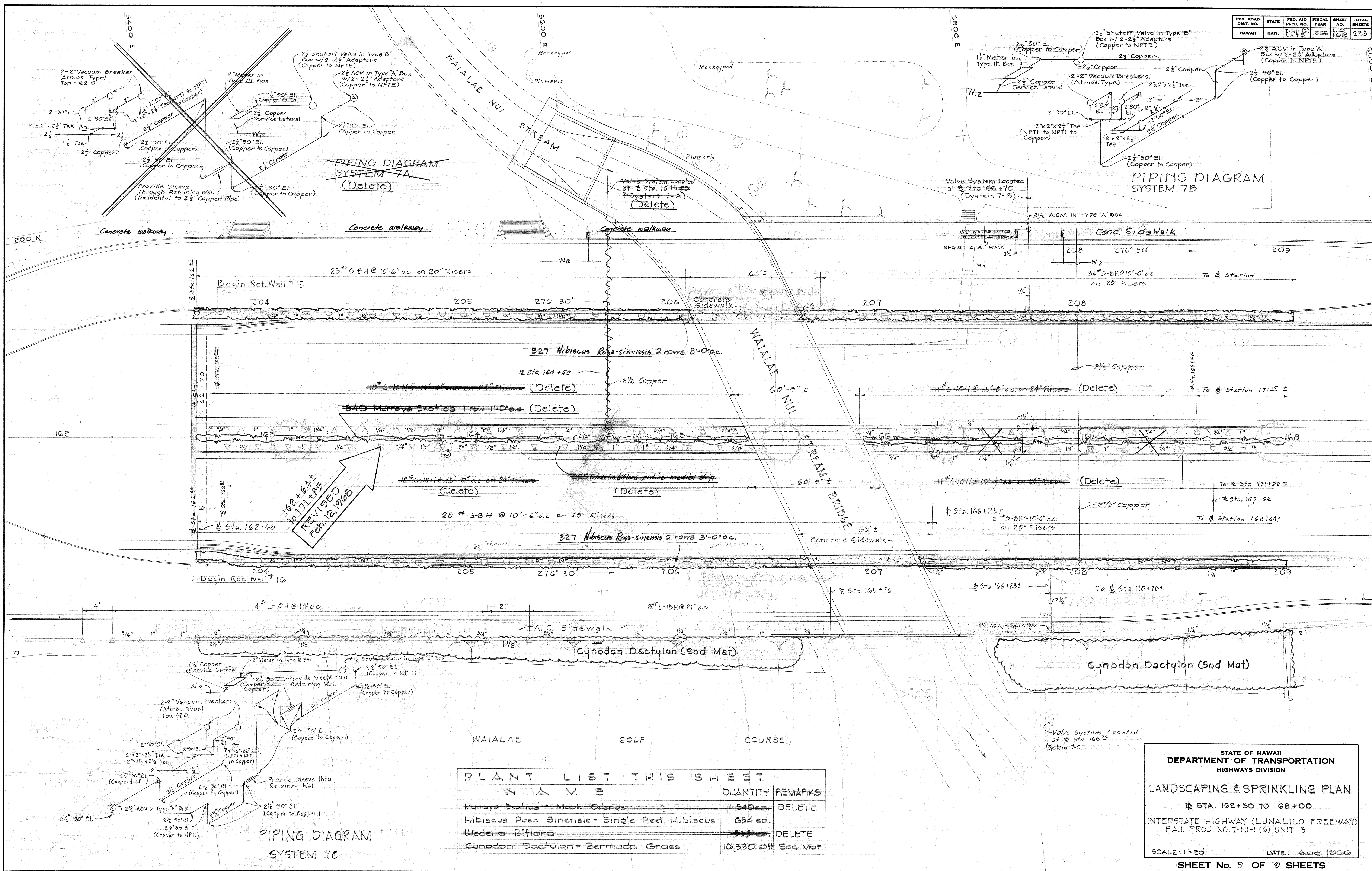
LANDSCAPING & SPRINKLING PLAN

§ STA. 150+50 TO 156+50

INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-H-1 (6) UNIT 3

SCALE: 1"=20' DATE: Aug. 1966

SHEET No. 3 OF 9 SHEETS



Revised May 5, 1967

TOTAL PLANT LIST		
N A M E	QUANTITY	CONDITION
Araucaria Araucana-Norfolk Pine	5 ea.	25 gal. can 10' tall guy (COMIT)
Citharexylum Spinosum-Cigarboxwood	8 ea.	25 gal. can 10' tall
Eucalyptus Fictolia-Red Flowering Gum	20 ea.	25 gal. can 10' tall guy
Tabebuia Pentaphylla-Pink Tecoma	4 ea.	10 gal. can 8' tall guy
Hibiscus Rosa Sinensis-Single Red Hibiscus	880 ea.	1 gal. can 1'-0" tall
Murraya Exotica-Mock Orange	1320 ea.	1 gal. can 1'-0" tall (Delete)
Diosotis Floribunda	3,855 ea.	#4 cans 36" o.c.
Wedelia Biflora	3,855 ea.	#4 cans 36" o.c.
Eremochloa Ophiuroides-Honon Grass	40,835 #	See Std. Specs.
Cynodon Dactylon-Bermuda Grass	39,830 #	Sod Mats

NOTE:
6" Topsoil shall be placed on all sodded areas and median areas planted with Wedelia and Diosotis.

PIPING DIAGRAM
SYSTEM 8A
(Delete)

REVISED
Feb 12, 1968

PLANT LIST THIS SHEET		
N A M E	QUANTITY	REMARKS
Murraya Exotica-Mock Orange	330 ea.	DELETE
Hibiscus Rosa Sinensis-Single Red Hibiscus	180 ea.	
Wedelia Biflora	880 ea.	DELETE
Cynodon Dactylon-Bermuda Grass	22,700 #	Sod Mat

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING & SPRINKLING PLAN
Sta. 168+00 TO 173+00
INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-H-1(6) UNIT 3
SCALE: 1"=20' DATE: May 1967
SHEET No. 6 OF 9 SHEETS

STAR OF THE SEA SCHOOL
(Existing A.C. Paved Parking Area)

TRUE NORTH
SCALE: 1"=20'

PIPING DIAGRAM
SYSTEM 8B

KAPAKAHI STREAM

STRUCTURE #23
KAPAKAHI BRIDGE

WAIALAE GOLF COURSE

200 N

Reinforced Ret. Wall #14
W/42" Ch. Lk. Fence

To Station 162+25± See sht. 7

To Station 167+54± See sht. 7

To Station 167+62± See sht. 7

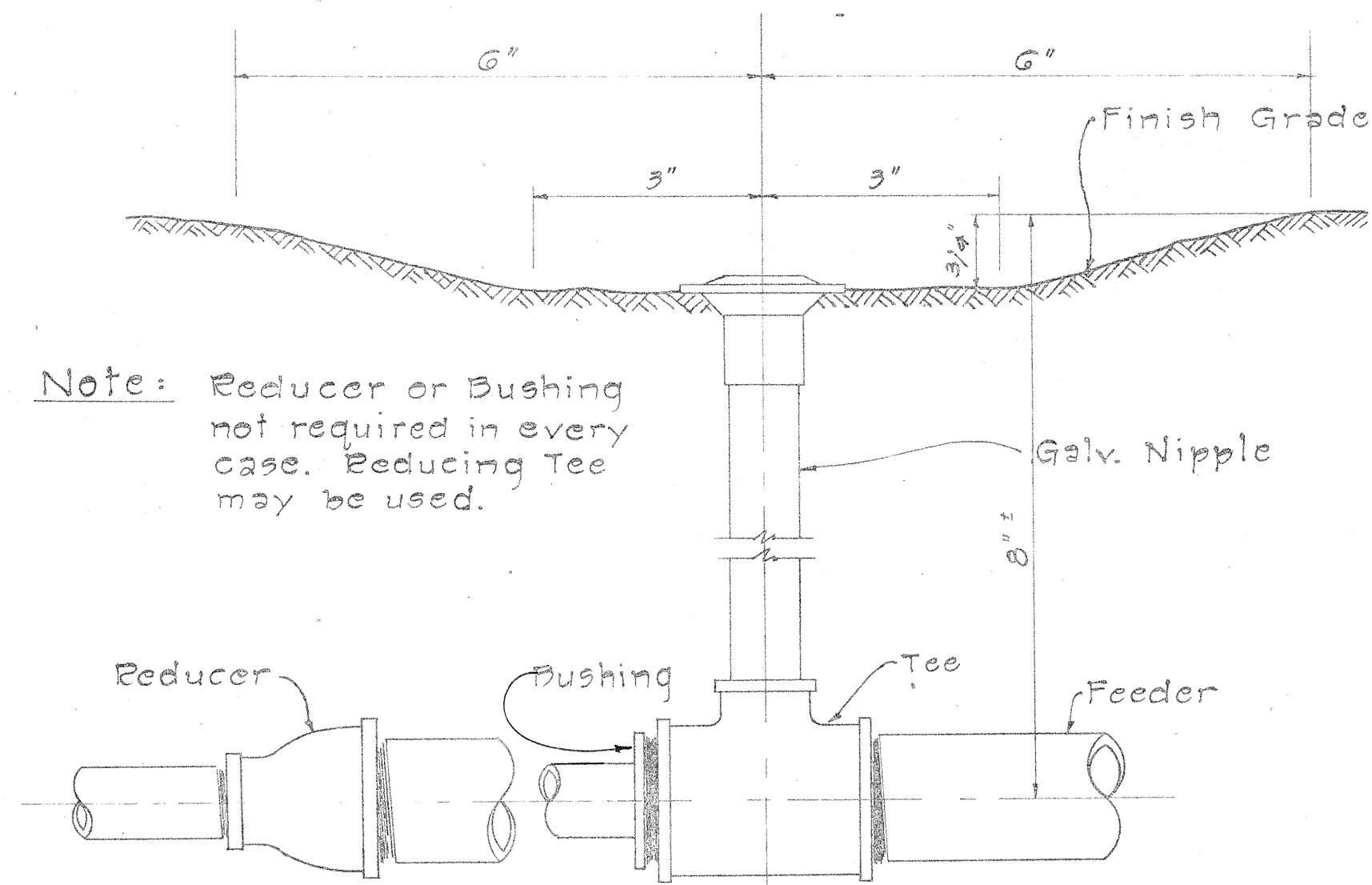
To Station 166+25± See sht. 7

To Sta. 166+88±

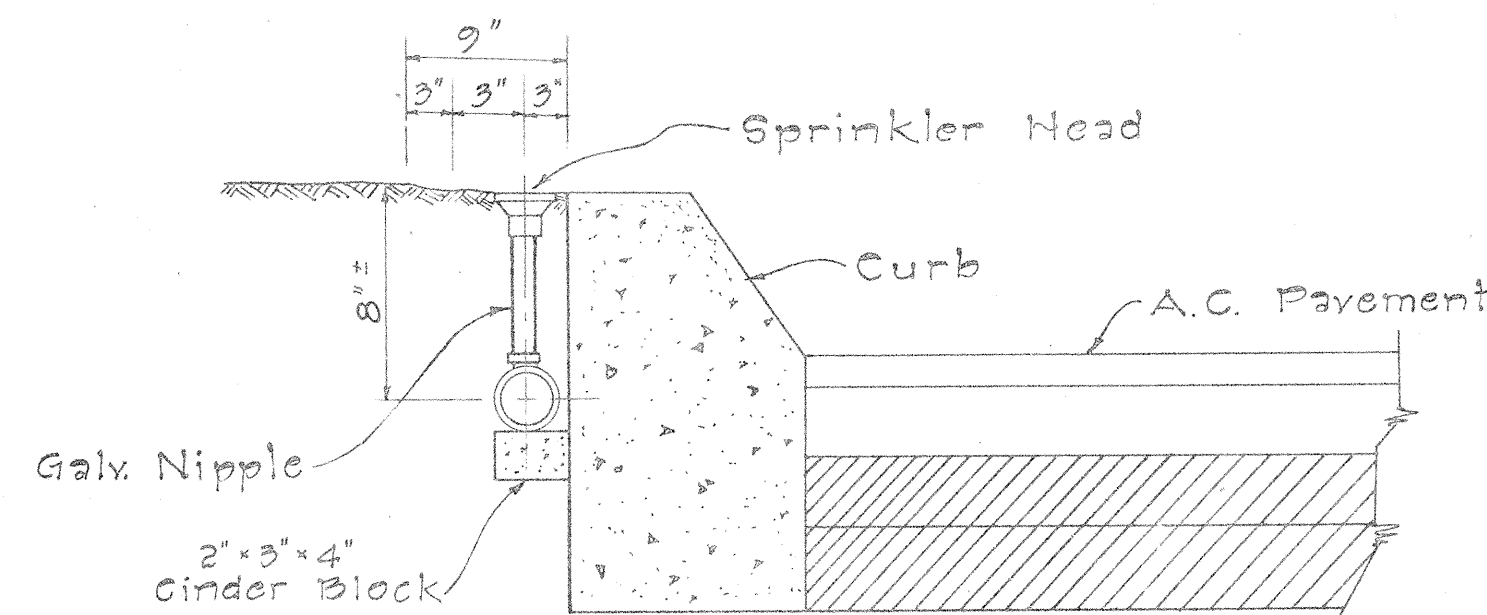
Valve System Located
at Sta. 168+00± Rt.
(System 8B)

Sta. 172+45±
Cut and plug existing 3/4" Sprinkler Line
Existing sprinkler system up to Sta. 172+45 to
be removed. Incidental to sprinkler system.

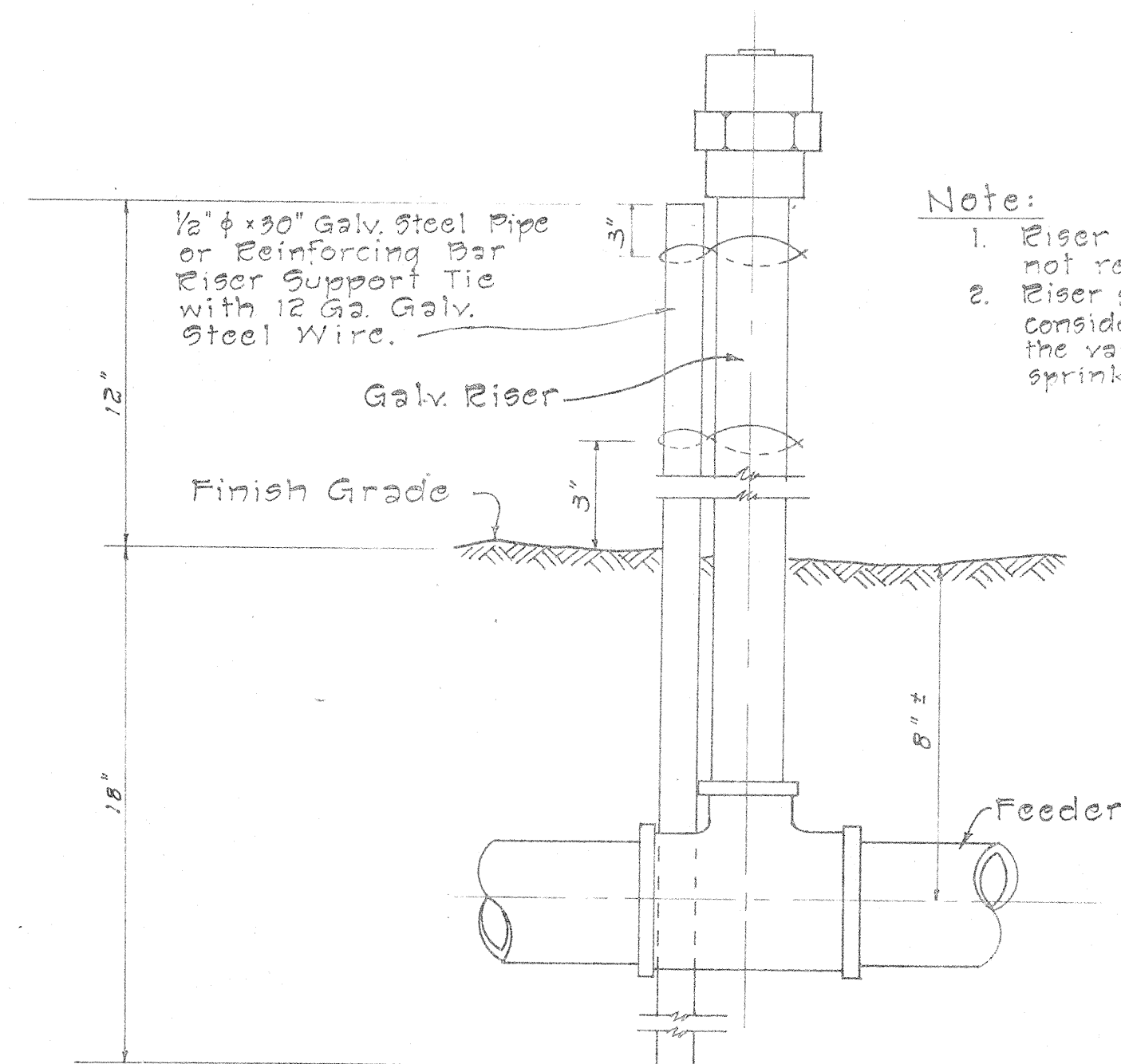
DATE: _____
DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
ORIGINAL PLAN _____
NOTE BOOK _____
No. _____



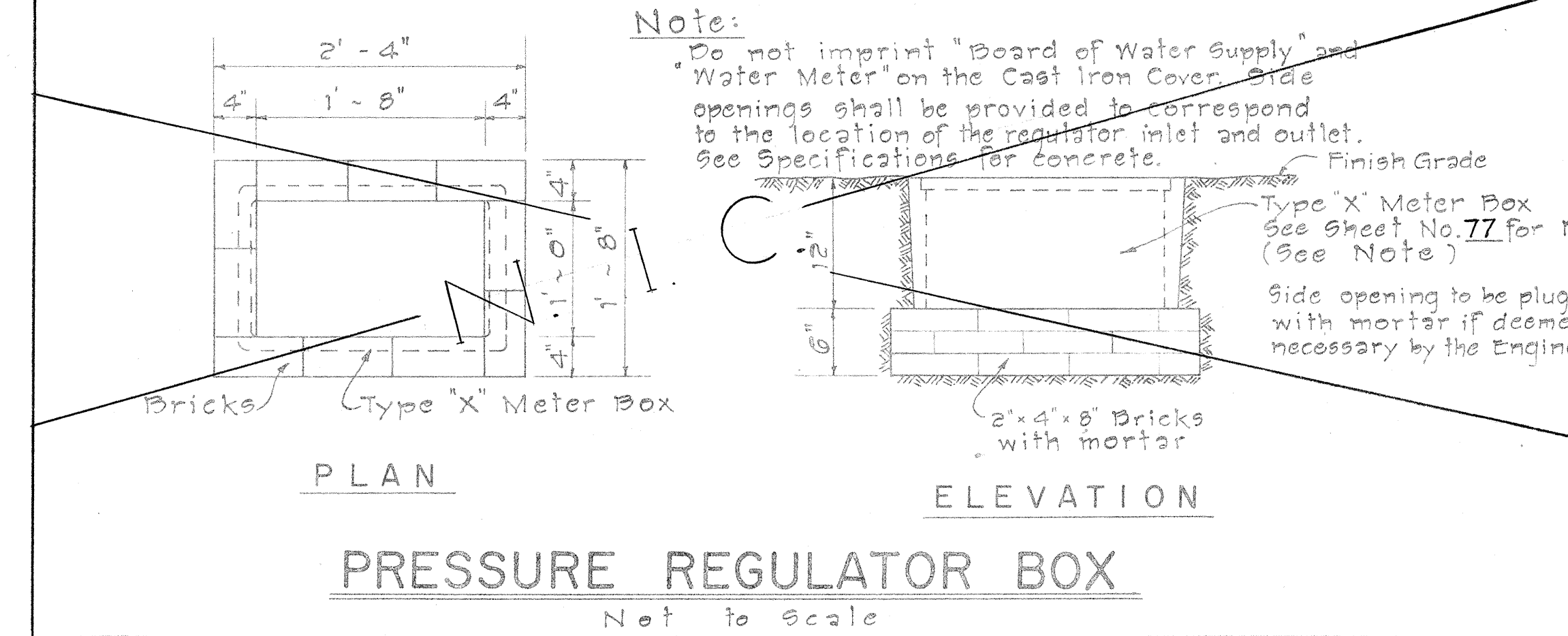
CONNECTION OF SPRINKLER HEAD TO FEEDER
Not to Scale



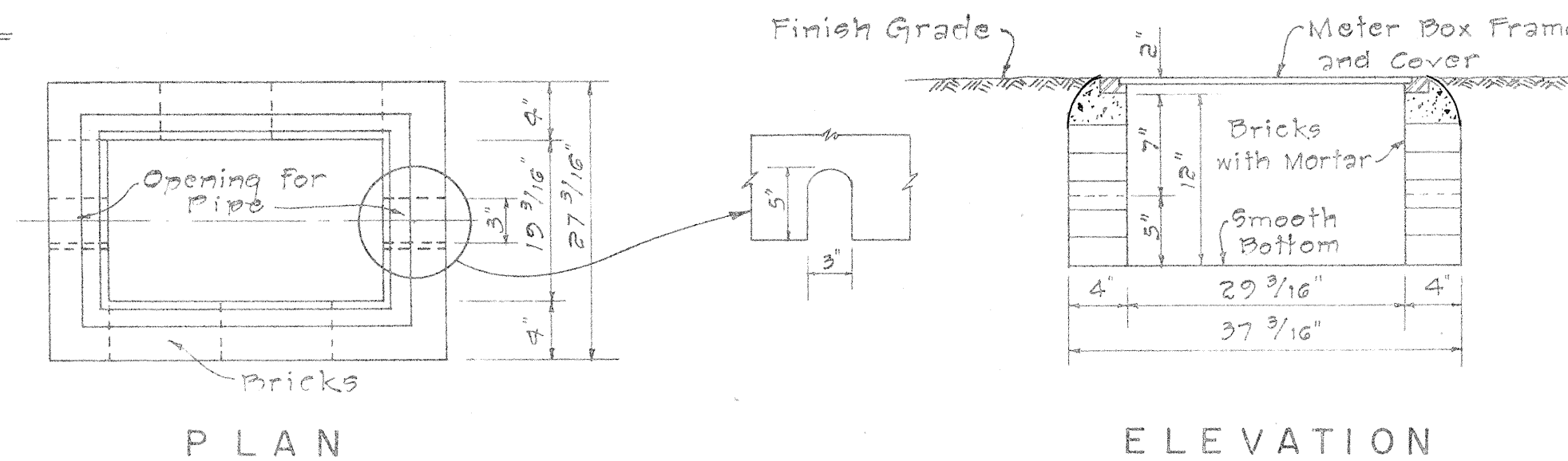
TYPICAL DETAIL OF SPRINKLER HEAD AT CONC. CURB
Not to Scale



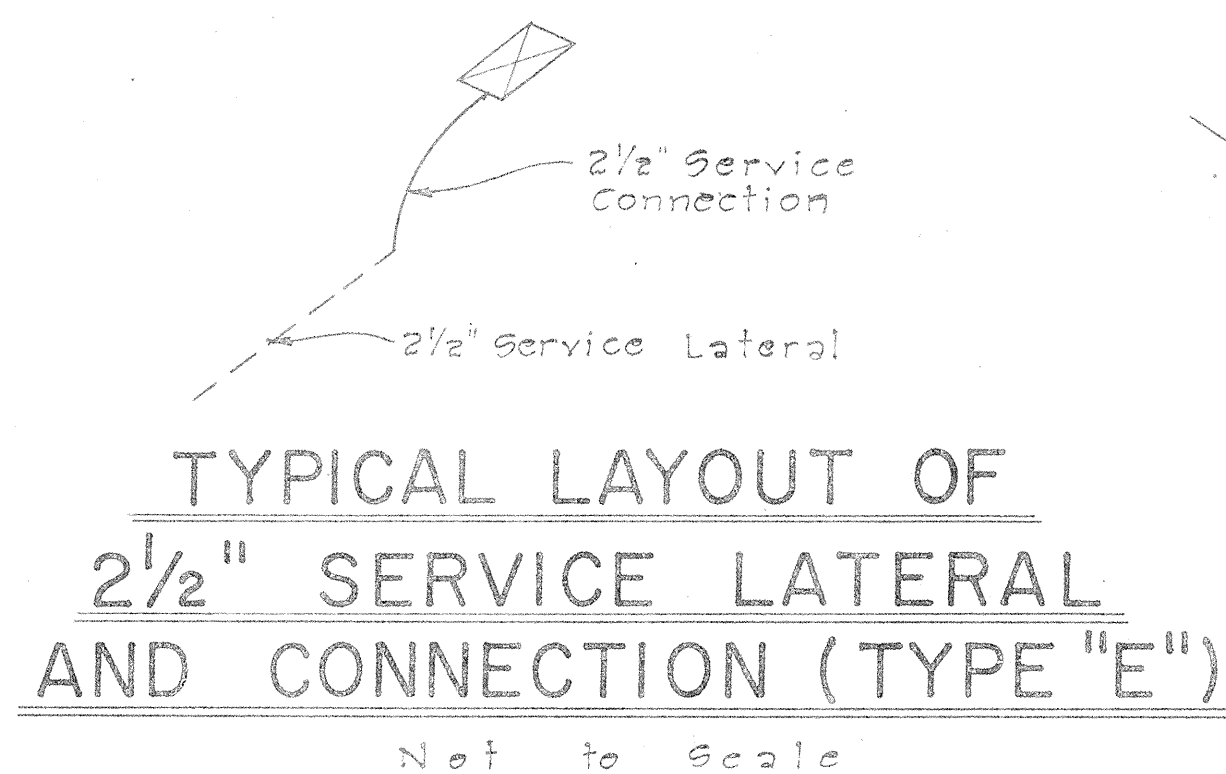
DETAIL OF SPRINKLER HEAD ON RISER
Not to Scale



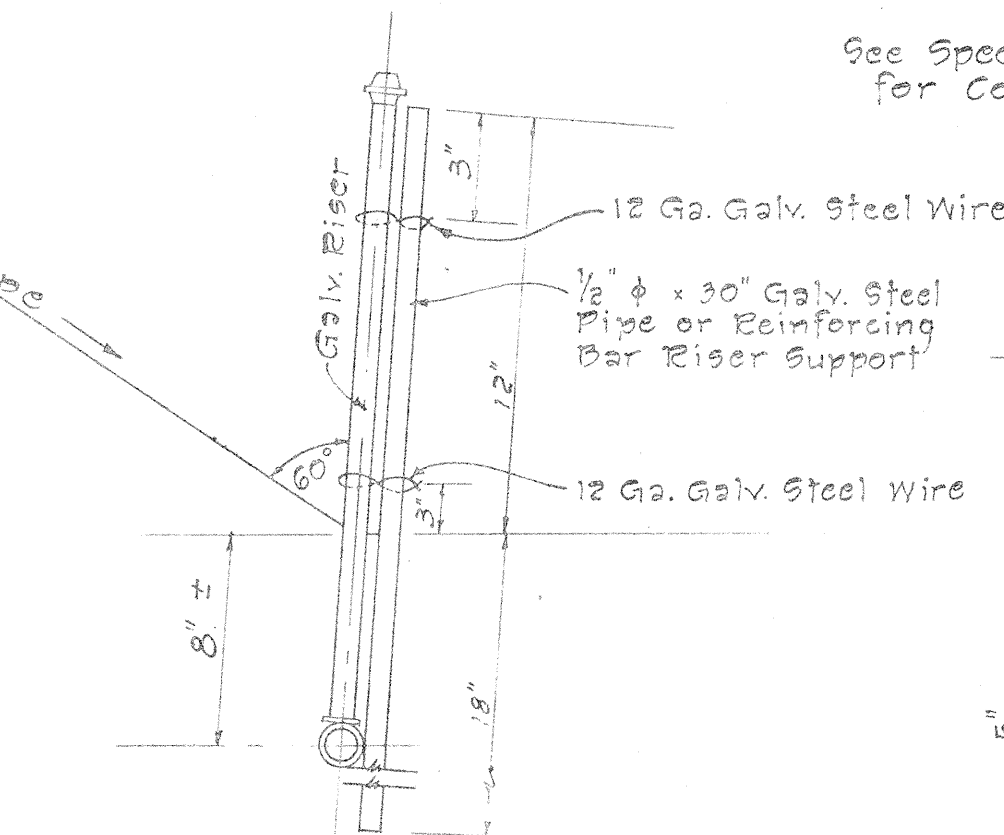
PRESSURE REGULATOR BOX
Not to Scale



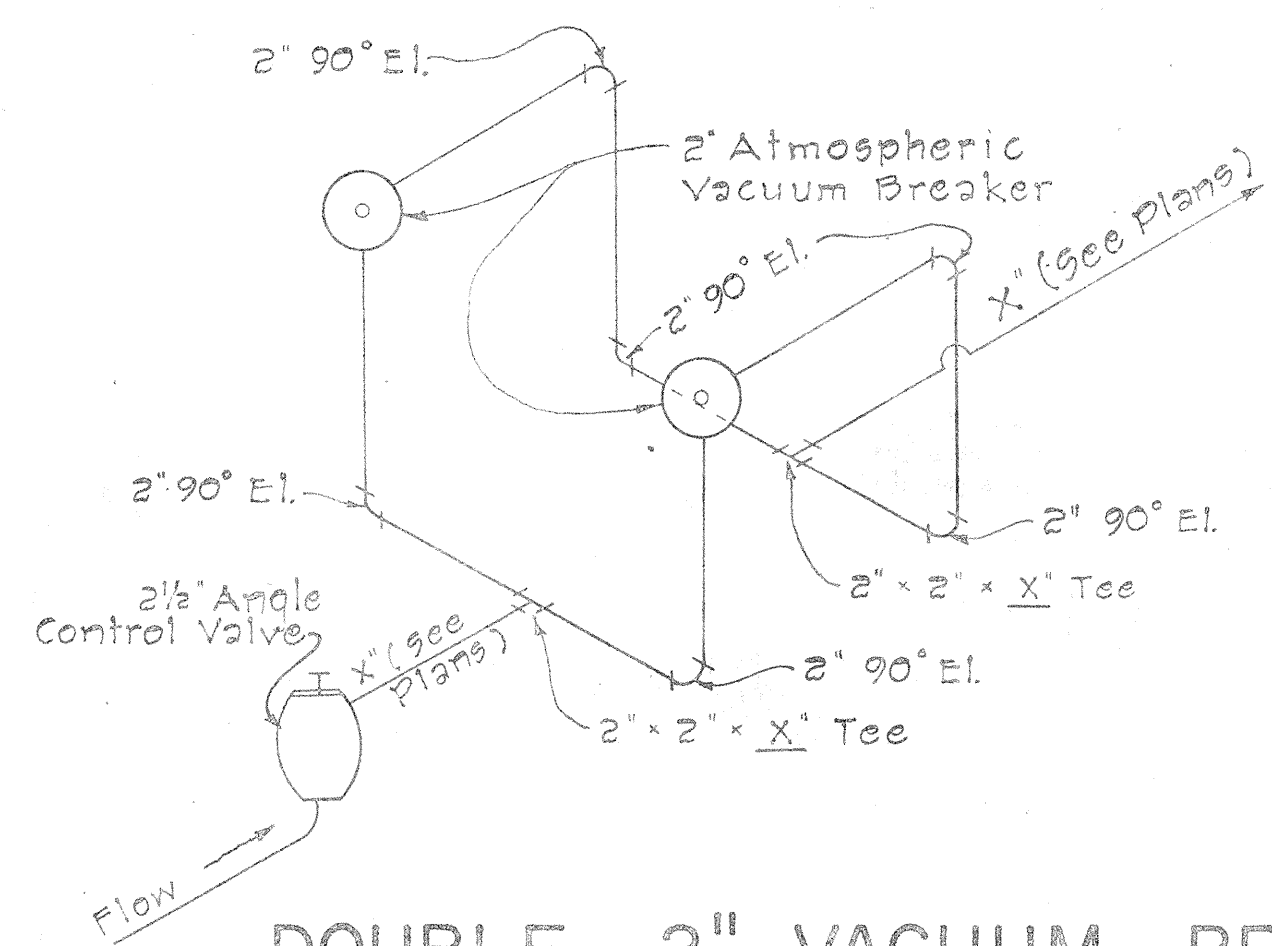
TYPE III METER BOX
Not to Scale



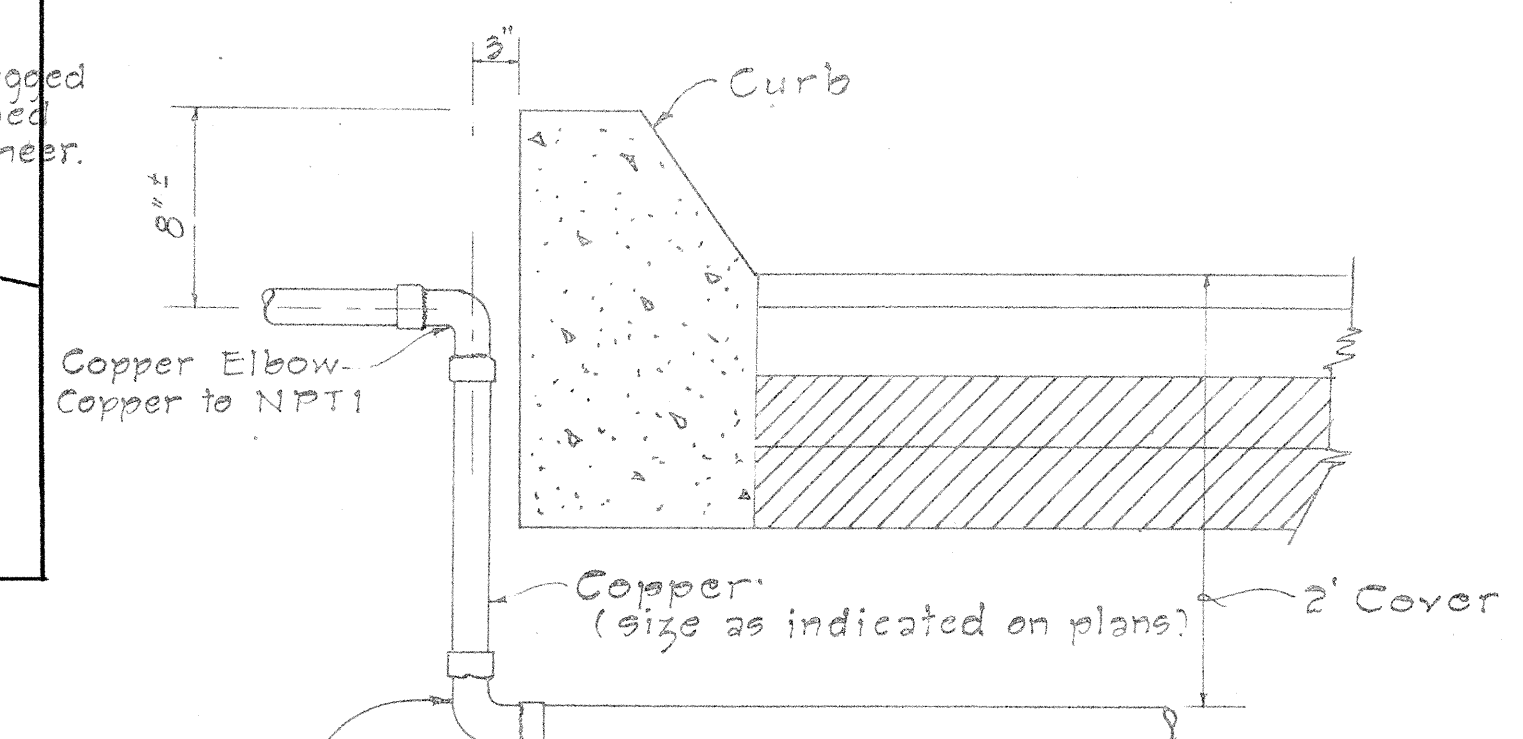
TYPICAL LAYOUT OF 2 1/2\"/>



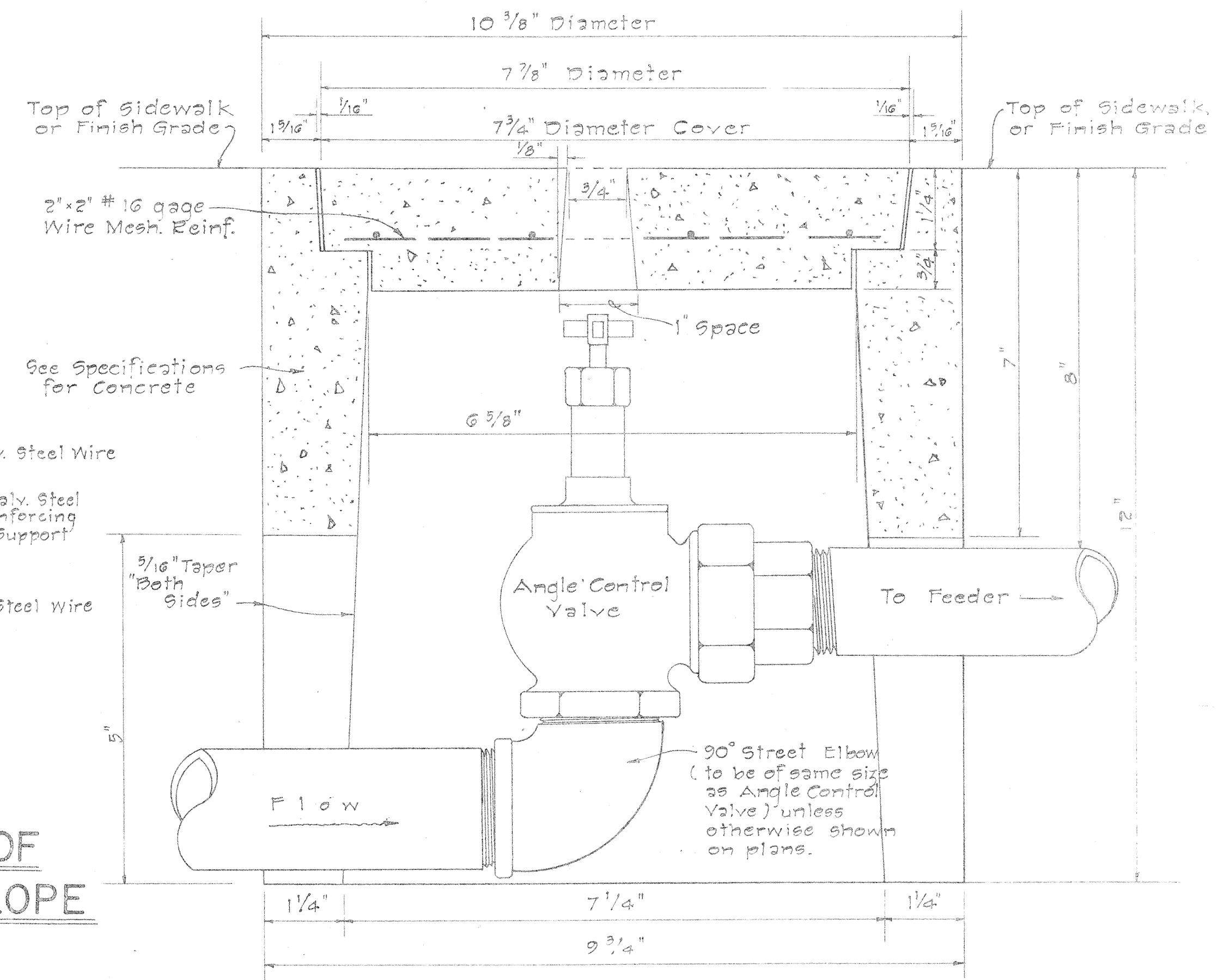
INSTALLATION OF SPRINKLER ON SLOPE
Not to Scale



DOUBLE - 2\"/>



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
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPING & SPRINKLER PLAN
STANDARD SPRINKLER DETAILS
INTERSTATE HIGHWAY (LUNALILO FREEWAY)
F.A.I. PROJ. NO. I-H-1(6) UNIT 3

SCALE AS NOTED DATE: Aug. 1966
SHEET No. 8 OF 7 SHEETS

SUMMARY

9 7 2 8 28 5 11 15

1 G G R

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	