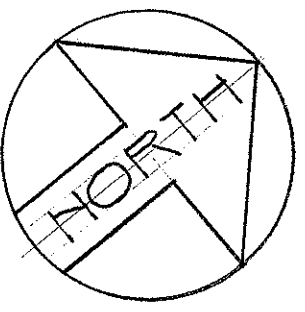


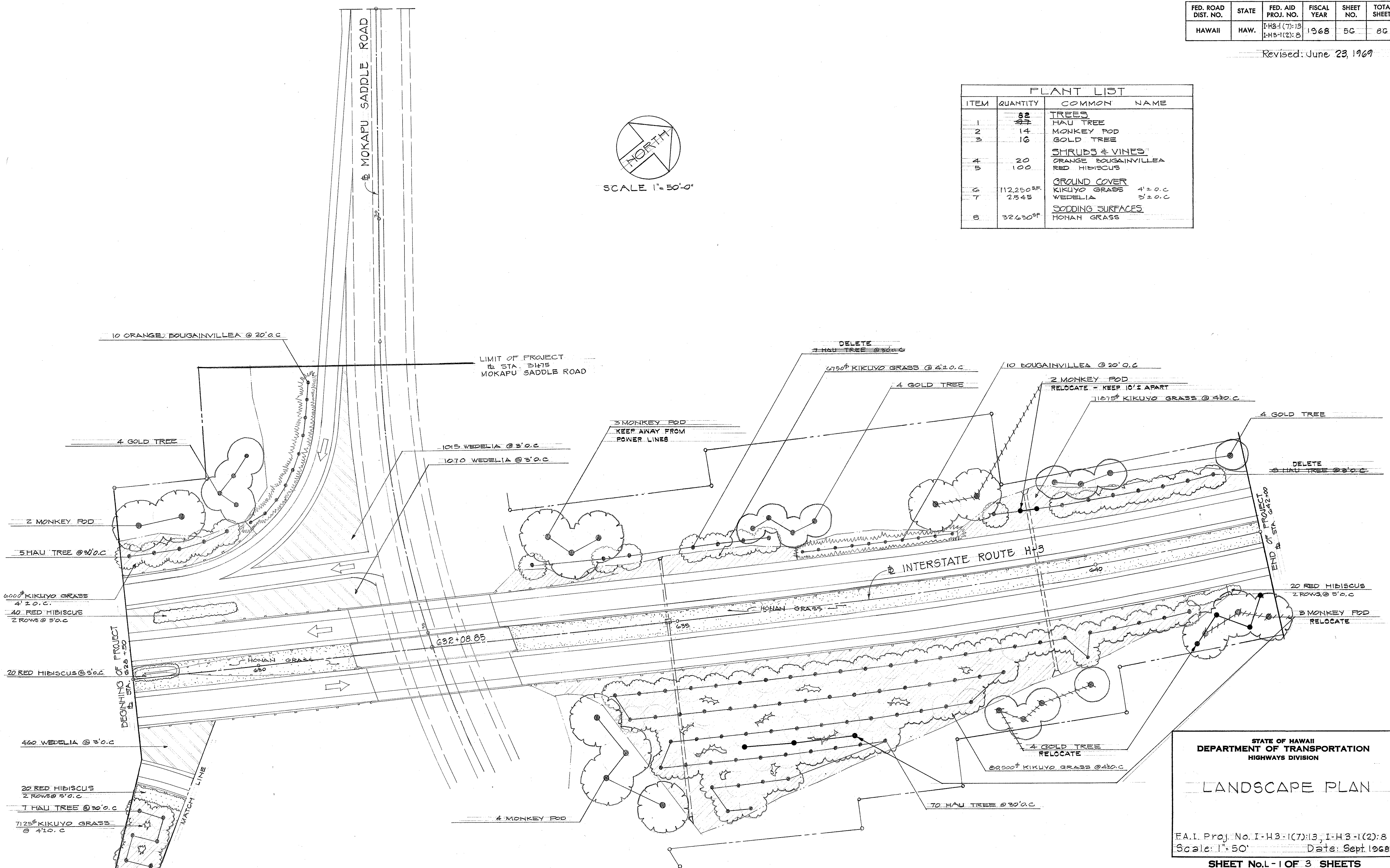
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	56	86

Revised: June 23, 1969

PLANT LIST		
ITEM	QUANTITY	COMMON NAME
TREES		
1	82	HAU TREE
2	14	MONKEY POD
3	16	GOLD TREE
SHRUBS & VINES		
4	20	ORANGE BOUGAINVILLEA
5	100	RED HIBISCUS
GROUND COVER		
6	112,250 SF	KIKUYO GRASS 4' ± O.C.
7	2,545	WEDELIA 2' ± O.C.
SODDING SURFACES		
8	32,630 SF	HONAN GRASS



SCALE 1" = 50'-0"



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

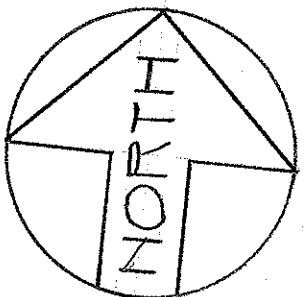
LANDSCAPE PLAN

E.A.I. Proj. No. I-H3-1(7):13, I-H3-1(2):8
Scale: 1" = 50' Date: Sept. 1968

SHEET No. 1 OF 3 SHEETS

56. 139

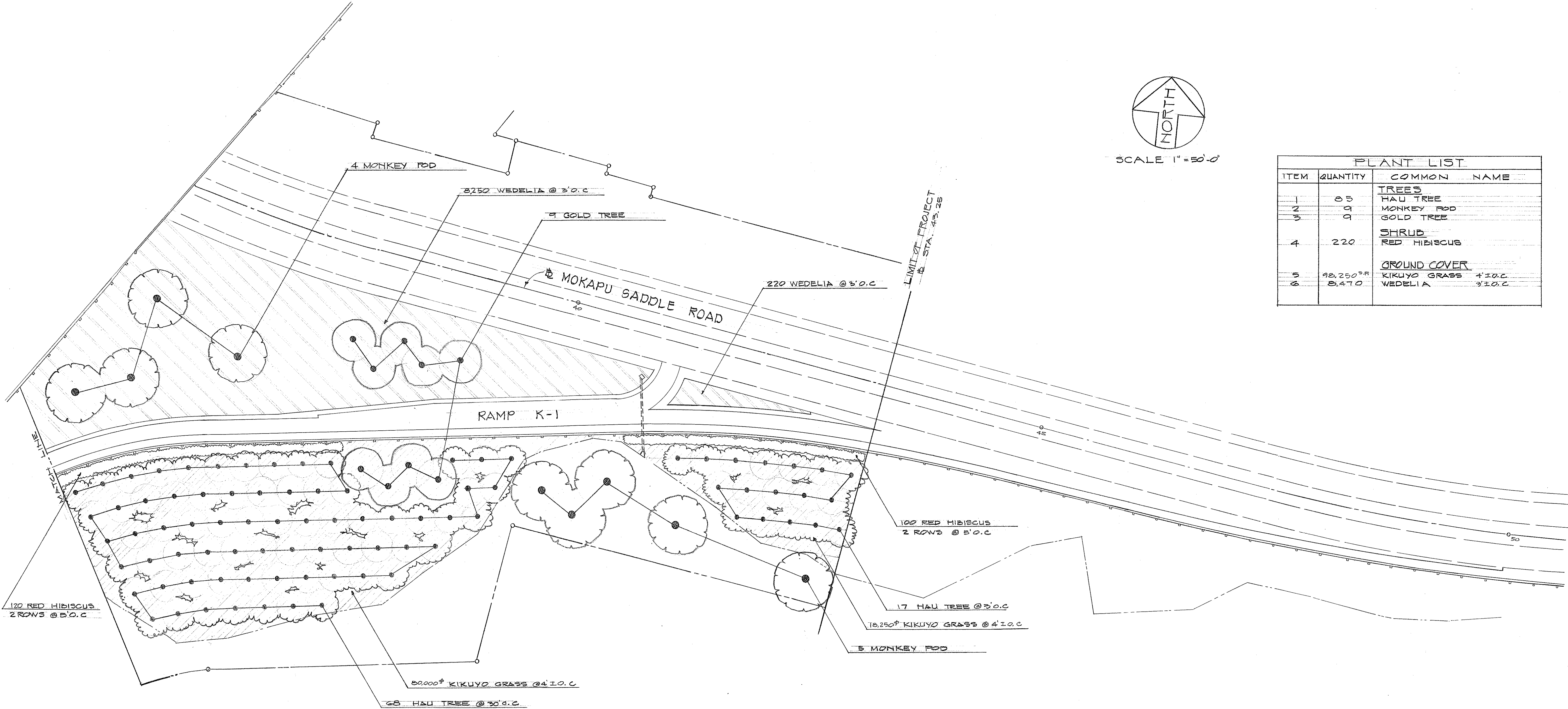
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	57	86



SCALE 1" = 50'-0"

PLANT LIST		
ITEM	QUANTITY	COMMON NAME
TREES		
1	85	HAU TREE
2	9	MONKEY POD
3	9	GOLD TREE
SHRUB		
4	220	RED HIBISCUS
GROUND COVER		
5	98,250 ^{sq ft}	KIKUYO GRASS @ 10' C
6	8,470	WEDELIA @ 3' C

ORIGINAL PLAN	DATE
NOTED BY	DESIGNED BY
CHECKED BY	QUANTITIES BY
	CHECKED BY

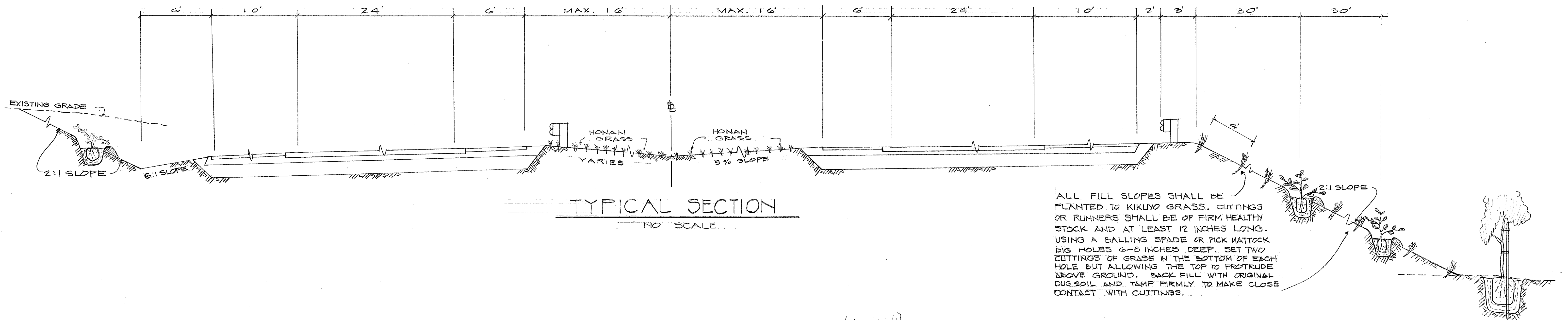


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE PLAN

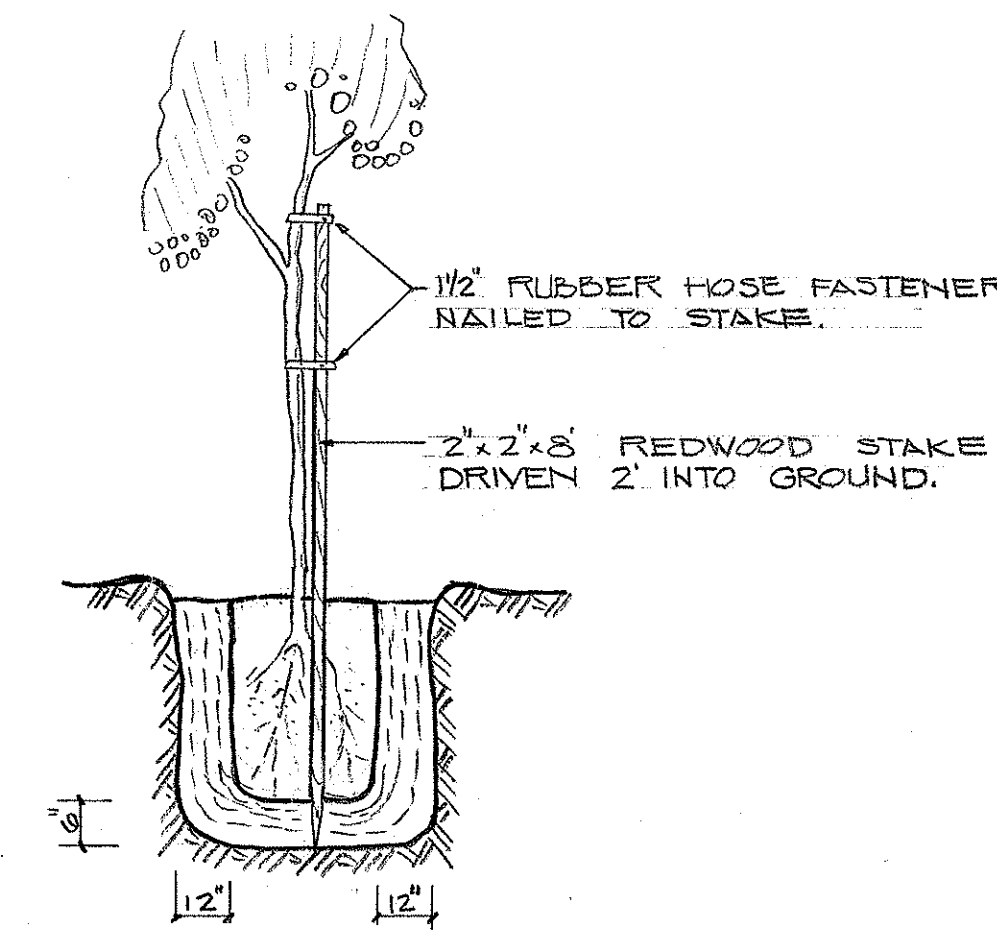
F.A.I. Proj. No. I-H3-1(7):13, I-H3-1(2):8
Scale: 1" = 50' Date: Sept. 1968

SHEET No. 1 - 2 OF 3 SHEETS

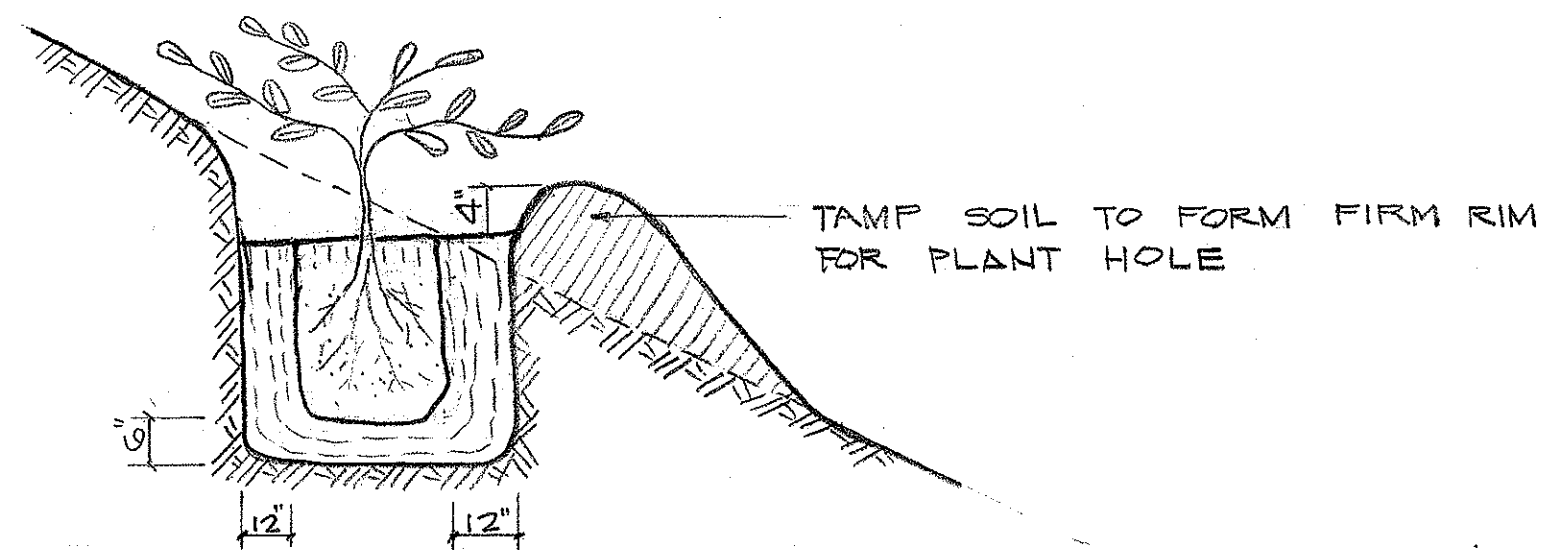


TYPICAL SECTION
NO SCALE

PLANT LIST							
ITEM	QUANTITY			BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	SHEET 1-1	SHEET 1-2	TOTAL				
<u>TREES</u>							
1	97	85	182	HIBISCUS TILIACEUS	HAU TREE	1 GAL 3'-4'	30'0.0
2	14	9	23	SAMANEA SAMAN	MONKEY POD	5GAL 5'-6'	SEE PLAN
3	19	9	28	TABEBUIA DONNELL-SMITHII	GOLD TREE	" 4'-5'	" "
<u>SHRUBS & VINES</u>							
4	20		20	BOUGAINVILLEA SPECTABILIS HYBRID	ORANGE BOUGAINVILLEA	1GAL 2'-3'	20'0.0
5	100	220	320	HIBISCUS ROSA-SINENSIS	RED HIBISCUS	" 2'-3'	5'0.0
<u>GROUND COVER</u>							
6	112,250 ^{SP}	98,250 ^{SP}	210,500 ^{SP}	PENNISETUM CLANDESTINUM	KIKUYO GRASS	CUTTINGS	4'0.0
7	2,545	8,470	11,015	WEDELIA TRILOBATA	WEDELIA	"	3'0.0
<u>SODDING SURFACES</u>							
8	32,630 ^{SP}		32,630 ^{SP}	EREMOCHLOA OPHIUROIDES	HONAN GRASS	SPRIGS	3"x4'0.0



5 GAL TREE



PLANT ON 2:1 SLOPE

PLANTING DETAIL
NO SCALE

NOTE:

- COMMERCIAL FERTILIZER SHALL BE DELIVERED TO THE SITE IN UNOPENED ORIGINAL CONTAINERS BEARING THE MANUFACTURER'S STATEMENT OF ANALYSIS, AND SHALL CONTAIN THE FOLLOWING MINIMUM PERCENTAGE OF PLANT FOOD BY WEIGHT:
(N) NITROGEN 10%, (P₂O₅) PHOSPHATE 10%, (K₂O) POTASH 10%
IT SHALL ALSO CONTAIN 10% ORGANIC MATTER, 3% "ESMINEL" AND 3% IRON SHAVINGS.
- FERTILIZER TO BE THOROUGHLY MIXED WITH SOIL AND SEPARATED FROM ROOT BALL BY A 2 INCH LAYER OF CLEAN SOIL AT BOTTOM OF TREE HOLE.
- EACH TREE, SHRUB AND GROUND COVER PLANT HOLE SHALL CONTAIN THE FOLLOWING QUANTITY:
TREE HOLE 1 POUND FERTILIZER
SHRUB HOLE 1/2 POUND
GROUND COVER HOLE 1/4 POUND
- KIKUYO GRASS SHALL SHOW AT LEAST 90% OF THE CUTTINGS TO BE VIABLE AT THE END OF MAINTENANCE PERIOD.

NOTE:

- BASIN OF SUFFICIENT SIZE TO ALLOW COMPLETE WETTING OF ROOT BALL AND OF STRENGTH TO PREVENT WATER BREAKTHROUGH. HOLES TO RECEIVE PLANTS SHALL BE 12" WIDER AND 6" DEEPER THAN THE ROOT BALL.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LANDSCAPE DETAIL

F.A.I. Proj. No. I-H3-1(7):13, I-H3-1(2):8
Scale: 1"=50' Date: Sept 1968

SHEET No. 1 - 3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	C.058 S-1	86

Revised: Nov. 17, 1971

LEGEND AND SPRINKLER HEAD SPECIFICATIONS							
SYMBOL	NUMBER	TYPE	PRESSURE	RADIUS OF COVERAGE	FLOW	RISE	REMARKS
●	S-10	Shrubbery Sprinkler, Full Circle	20	7.5' Radius	1.9	1/2" I.P.S.	
△	L-10H	Pop-up Lawn Sprinkler, Half Circle	20	10' Radius	1.8	1/2" I.P.S.	2" pop up
○	L-10F	Pop-up Lawn Sprinkler, Full Circle	20	10' Radius	2.0	1/2" I.P.S.	2" pop up
◆	J-20	Jet Sprinkler, Part Circle 1/8" Nozzle	25	20' Radius	2.4	1/2" I.P.S.	
◇	J-30H	Jet Sprinkler, Part Circle 9/64" Nozzle	25	30' Radius	2.6	1/2" I.P.S.	
⊕	J-30F	Jet Sprinkler, Full Circle 5/32" Nozzle	25	30' Radius	3.8	1/2" I.P.S.	
▽	J-50H	Jet Sprinkler, Part Circle 3/16" Nozzle	30	43' Radius	5.5	3/4" I.P.S.	
⊖	J-50F	Jet Sprinkler, Full Circle 7/32" Nozzle	30	46' Radius	6.9	3/4" I.P.S.	
⊗		Remote Control Valve w/ Type A Valve Box					
⊠		Water Meter					
⊡		Valve and Valve Box					
⊙		Atmospheric Vacuum Breaker					
⊞		Backflow Preventer, Reduce Pressure Type					

LEGEND NOTES:

- "PRESSURE" is the minimum pressure, in pounds per square inch, which is available at the base of the last head. The operating pressure of acceptable heads must not exceed this value when operating at the tabulated flow and radius.
- "RADIUS OF COVERAGE" is the minimum radius at the tabulated pressure.
- "FLOW" is the maximum flow, in gallons per minute, which is discharged at the tabulated pressure.

GENERAL NOTES:

- Contractor shall restore landscaping, concrete structures, pavements, and appurtenances affected during construction. Payment for this shall be incidental to various contract items.
- Final location of Meter, Remote Control Valves and Vacuum Breakers shall be determined by the Engineer.
- Unless otherwise called for or directed by the Engineer, the center line of the feeder pipe shall be located 3" from the back of curbs or 4'-0" from the fence line or guard rail post or edge of slope.
- When the consumers water service will be interrupted the Contractor shall notify each consumer and the Board of Water Supply concerning the time and the duration of the shut-down.
- When backfilling the buried cable the backfill shall be free of rocks or any material that may damage the cable.
- For all pipes 3" or larger provide concrete reaction blocks at all bends and tees.
- Direct burial lines shall be laid parallel with sprinkler feeder line in common trench where possible.
- For detail of Type "B" Pullbox see sheet no. 42.
- BWS shall be notified one week prior to commencing work on the main.
- Pipe 4" in diameter and larger shall be cast iron installation and shall be in accordance with the requirements of Section 624, Water System of the Standard Specifications.

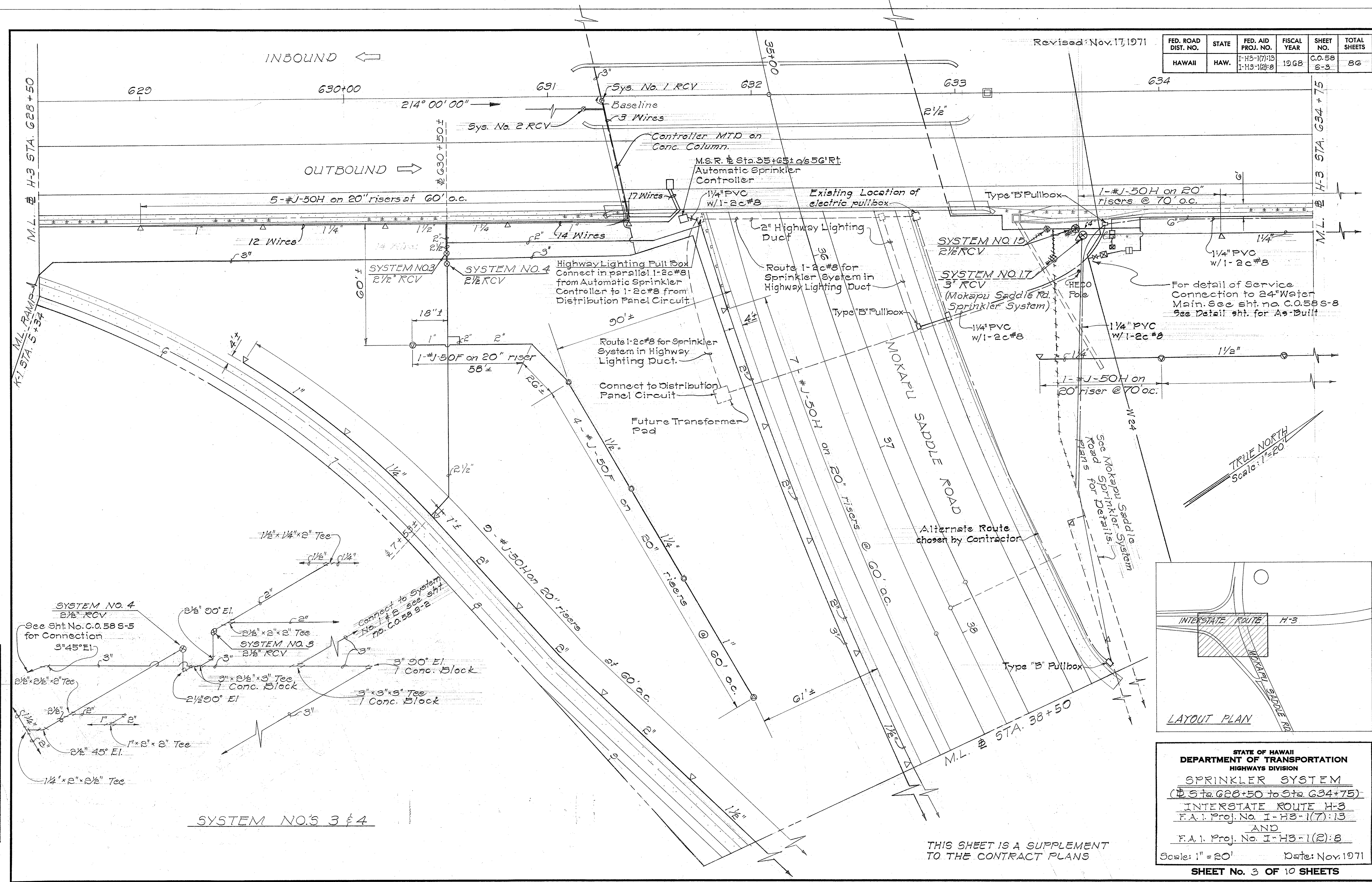
DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER SYSTEM
INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8
Date: Nov. 1971
SHEET No. 1 OF 10 SHEETS

THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLANS

Revised Nov. 17, 1971

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	C.O. 58 S-3	86



DATE	
DESIGNED BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

THIS SHEET IS A SUPPLEMENT TO THE CONTRACT PLANS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
(Sta. 628+50 to Sta. 634+75)
INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8

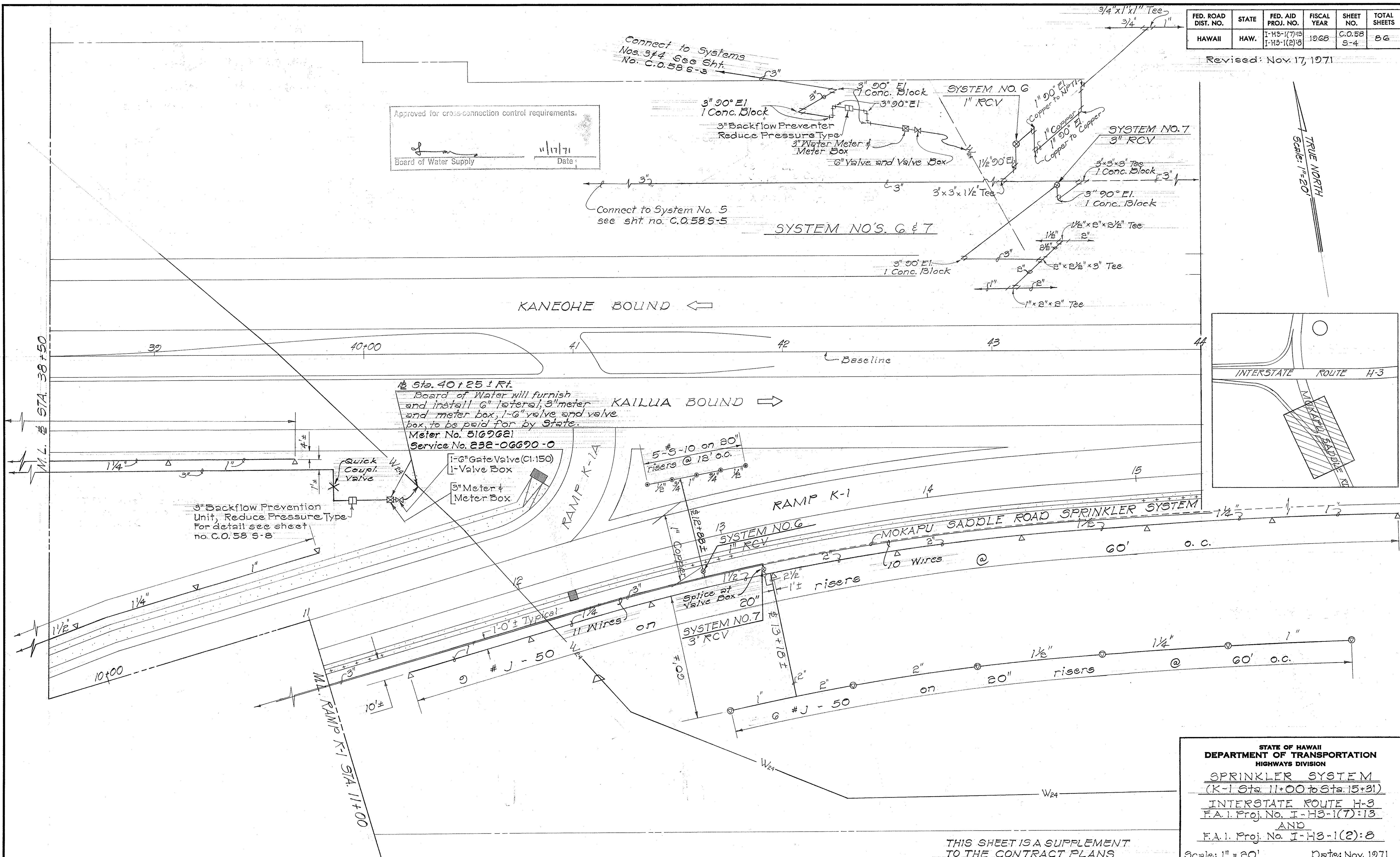
Scale: 1" = 20' Date: Nov. 1971

SHEET No. 3 OF 10 SHEETS

C.O.58 S-3 C.O.141 S-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7)13 I-H3-1(2)8	1968	C.O.58 S-4	86

Revised: Nov. 17, 1971



Approved for cross-connection control requirements.

[Signature] 11/17/71
Board of Water Supply Date

Connect to Systems
Nos. 3 & 4 See Sht.
No. C.O. 586-3

- Connect to System No. 5
see sht. no. C.O. 585-5

SYSTEM NO'S. 6 & 7

KANEOHE BOUND ←

KAILUA BOUND $\Rightarrow$

Board of Water will furnish and install 6" lateral, 3" meter and meter box, 1-6" valve and valve box, to be paid for by State.

✓

3" Backflow Prevention
Unit, Reduce Pressure Type
For detail see sheet
no. C.O. 58 9-8

THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLANS

STATE OF MAHARASHTRA
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
(K-1 Sta 11+00 to Sta. 15+31)

INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8

Scale: 1" = 20' Date: Nov. 1971

SHEET No. 4 OF 10 SHEETS

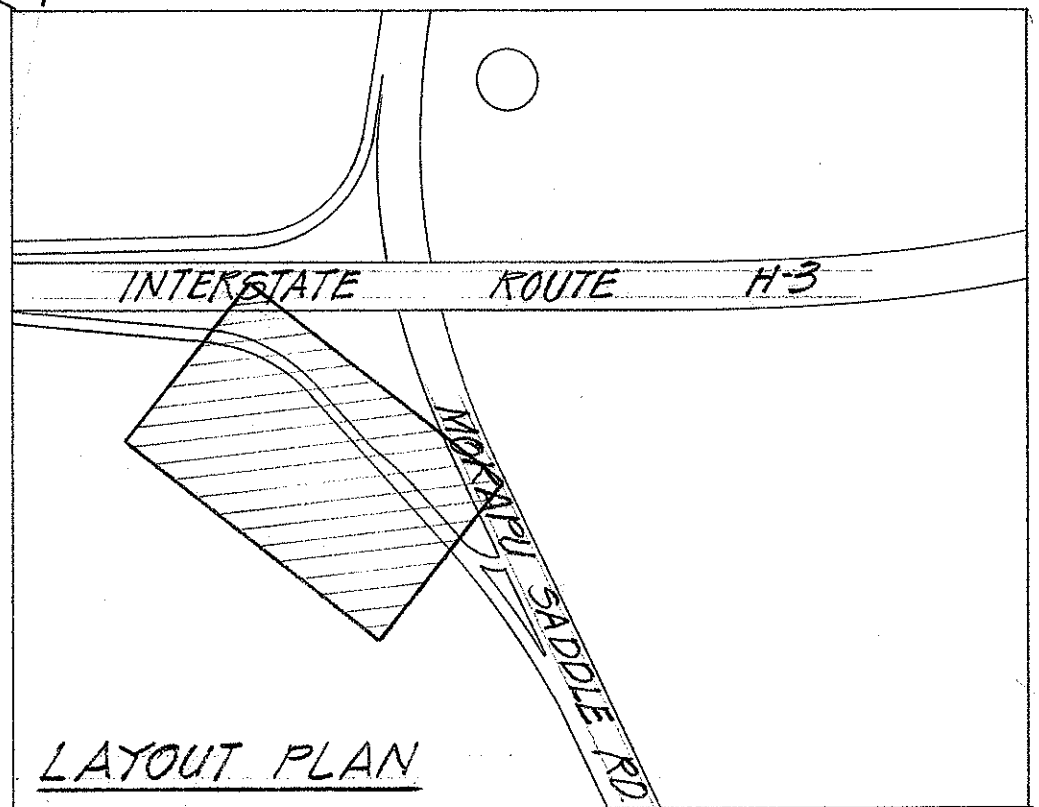
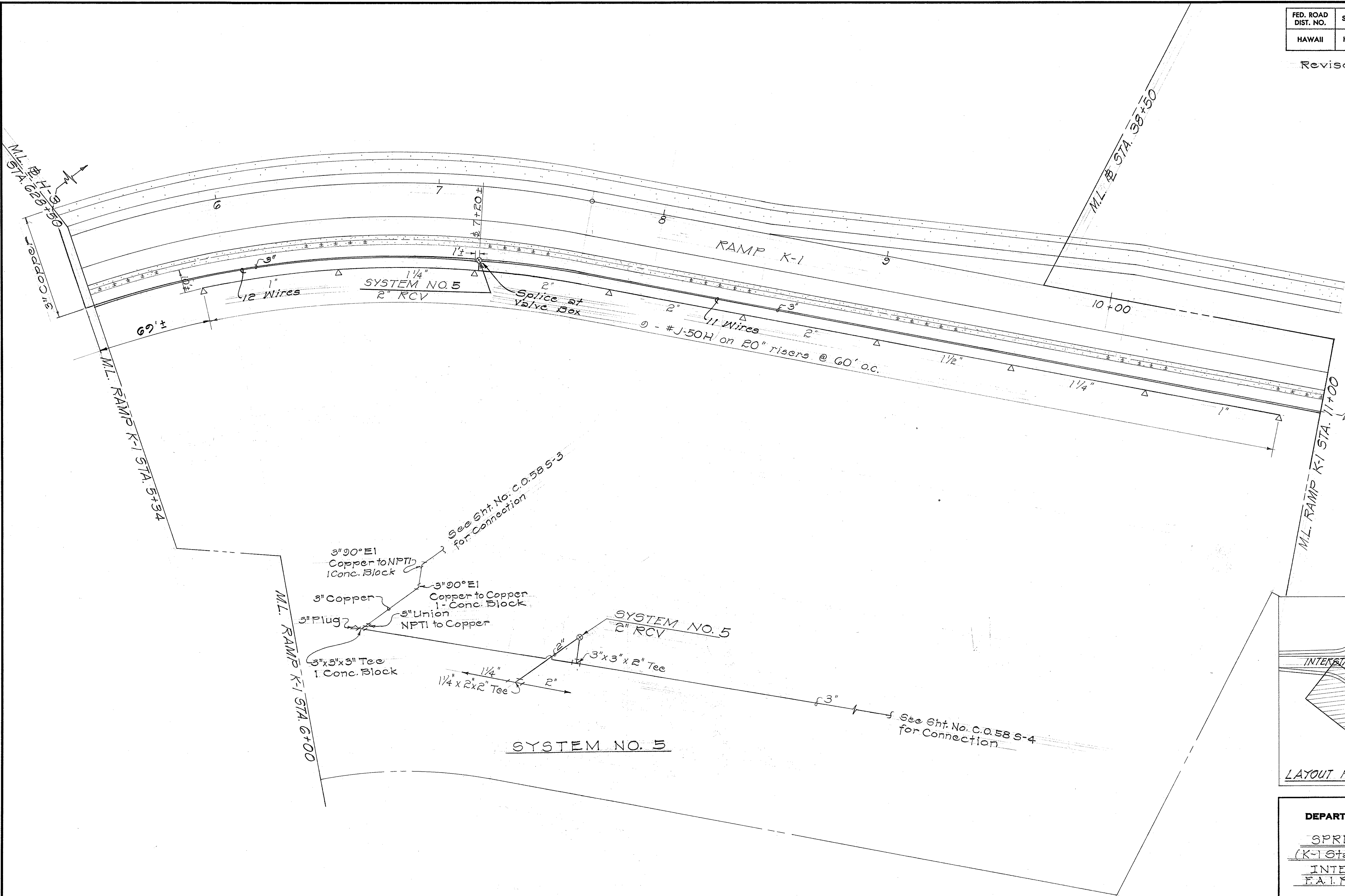
C.0.58 S-4	C.0.141 S-4
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ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	_____
	TRACED BY _____	_____
	DESIGNED BY _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	C.O.58 S-5	86

Revised: Nov. 17, 1971

TRUE NORTH
Scale: 1" = 20'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
(K-1 Sta. 5+34 to Sta. 11+00)
INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8

Scale: 1" = 20' Date: Nov. 1971

SHEET No. 5 OF 10 SHEETS

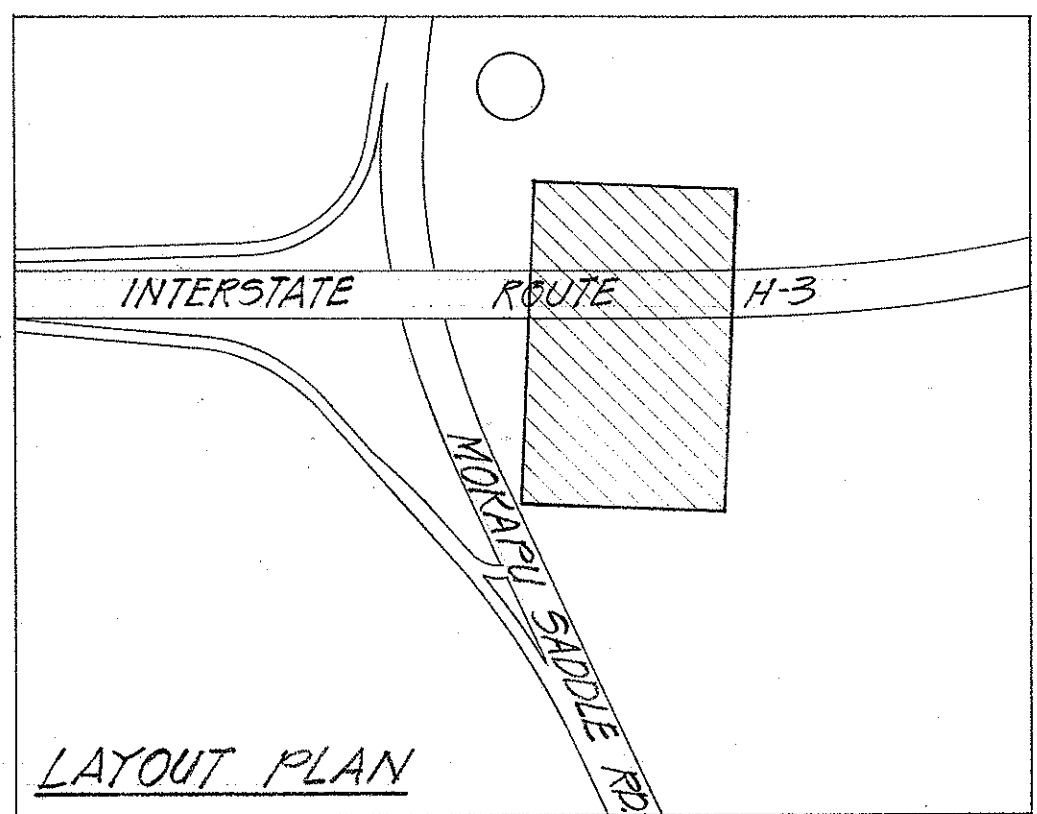
THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLAN

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTE BOOK	_____
CHECKED BY	_____
No.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	C.O.58 S-6	86

Revised: Nov. 17, 1971

SYSTEM NO. 16



LAYOUT PLAN

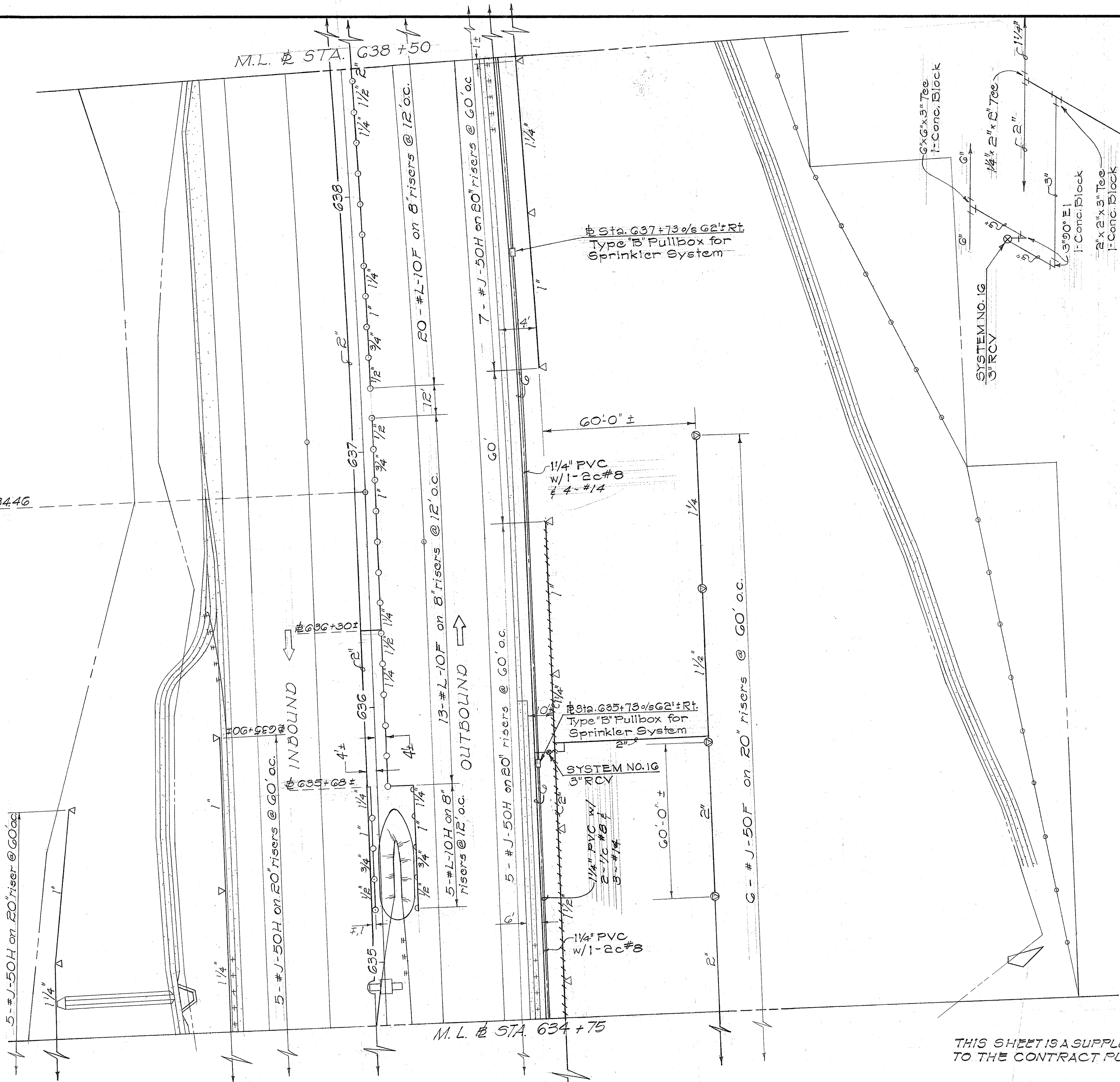
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER SYSTEM
(Sta. 634+75 to Sta. 638+50)
INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8

Scale: 1" = 20' Date: Nov. 1971

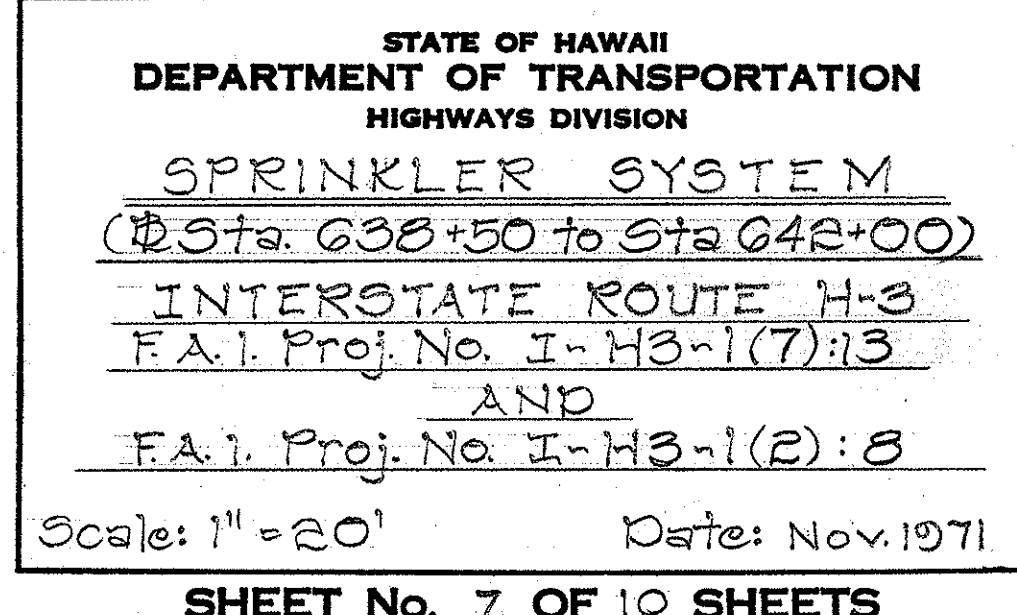
SHEET No. 6 OF 10 SHEETS

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



THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLAN

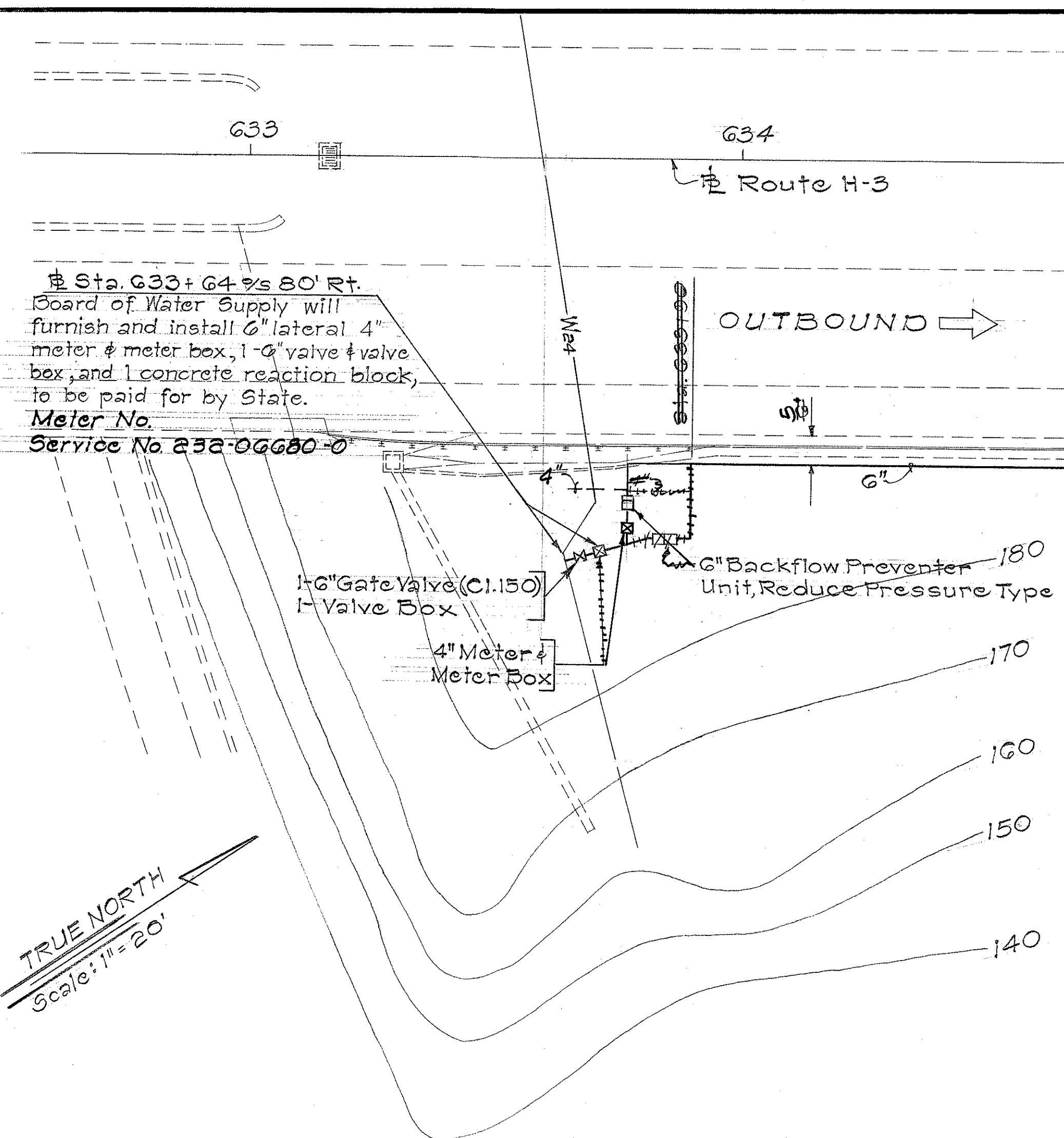
Revised: Nov. 17, 1971



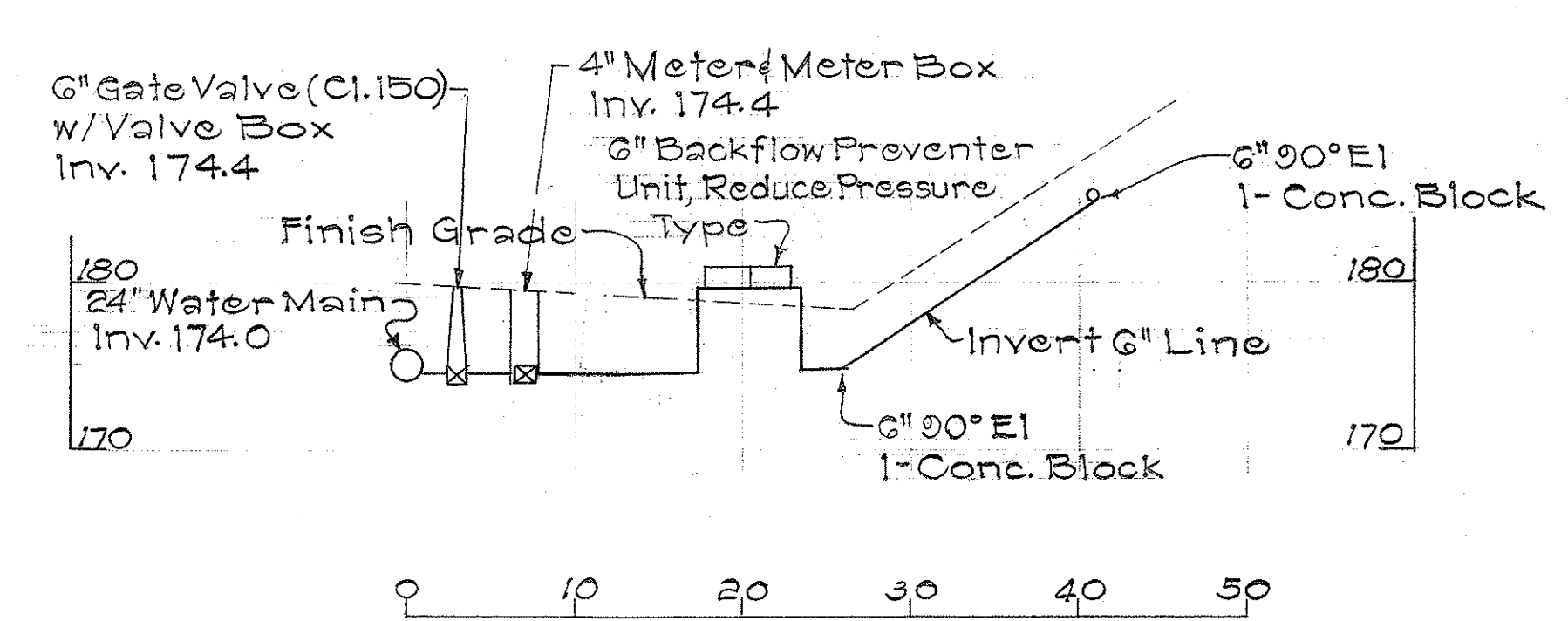
C.0.58 S-7 C.0.141 S-7

Revised: Nov. 17, 1971

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7):13 I-H3-1(2):8	1968	C.O.58 S-8	86



PLAN
Scale: 1" = 20'

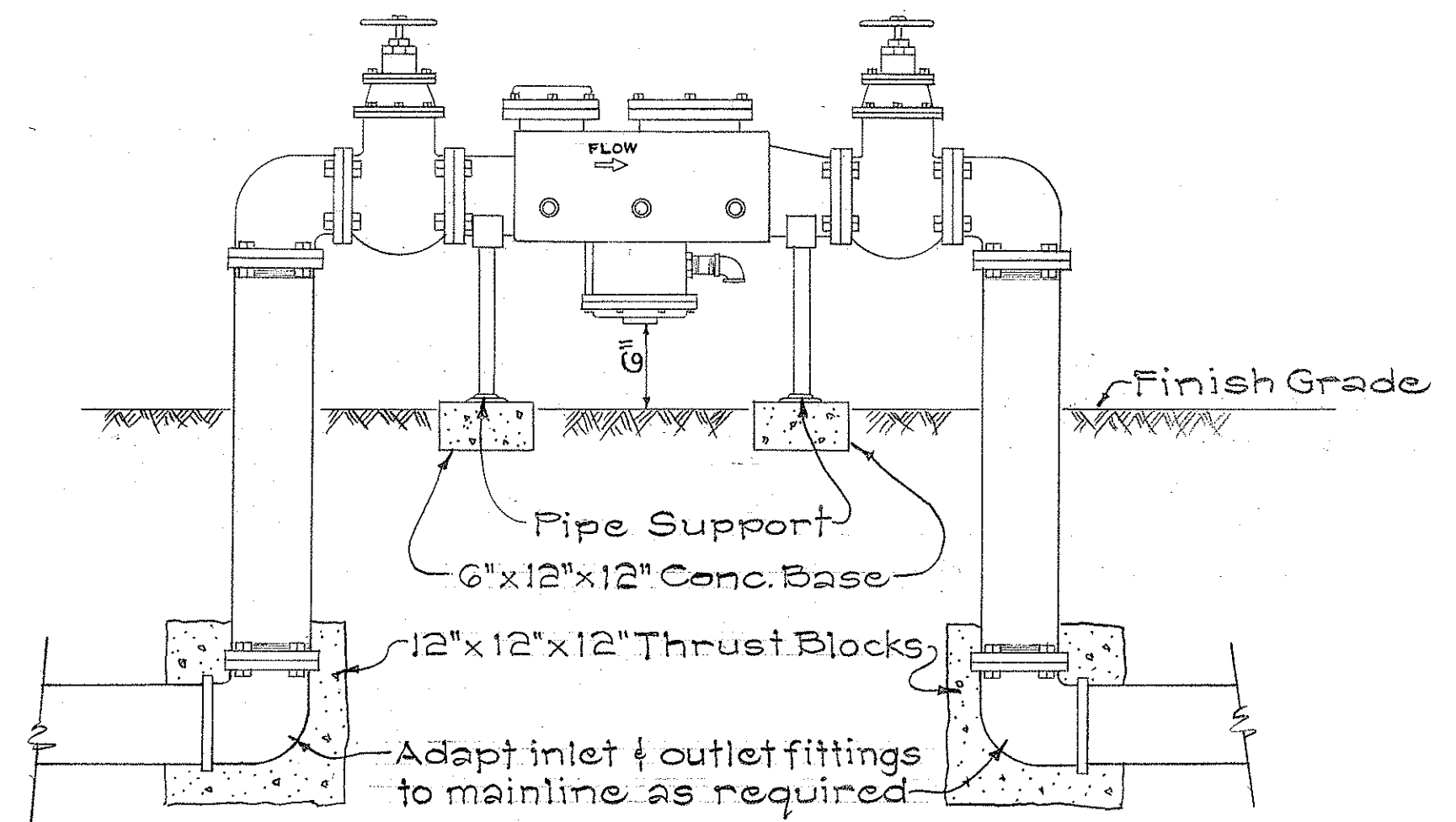


PROFILE
Scale: 1" = 10'

**DETAIL OF 6" SERVICE CONNECTION
AT STA. 633+64 RT.**

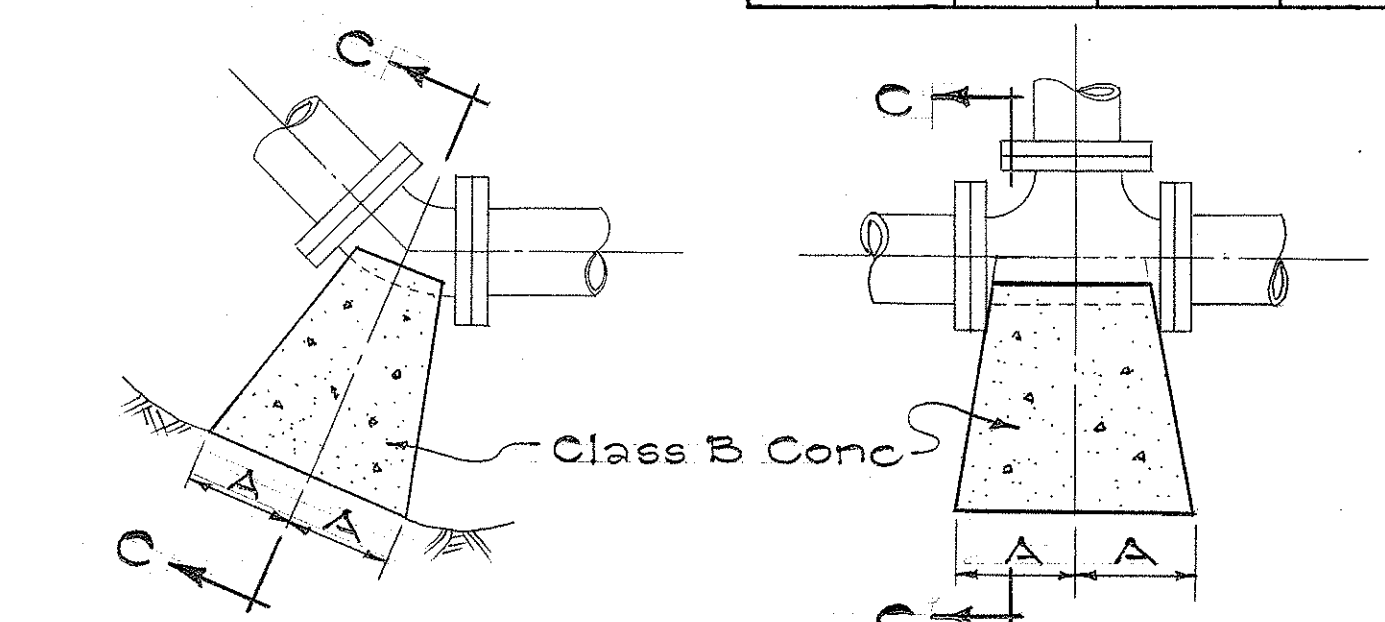
Approved for cross-connection control requirements.

[Signature] 11/17/71
Board of Water Supply Date



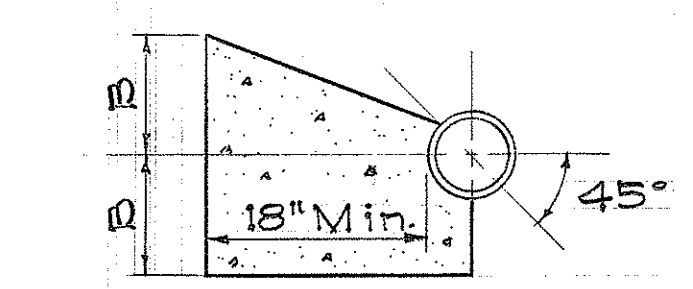
**BACKFLOW PREVENTION UNIT DETAIL
REDUCE PRESSURE TYPE**

Backflow Prevention Unit shown is for the purpose of illustration only. Details of actual unit selected may vary from that shown.



PLAN (BENDS)

PLAN (TEES)



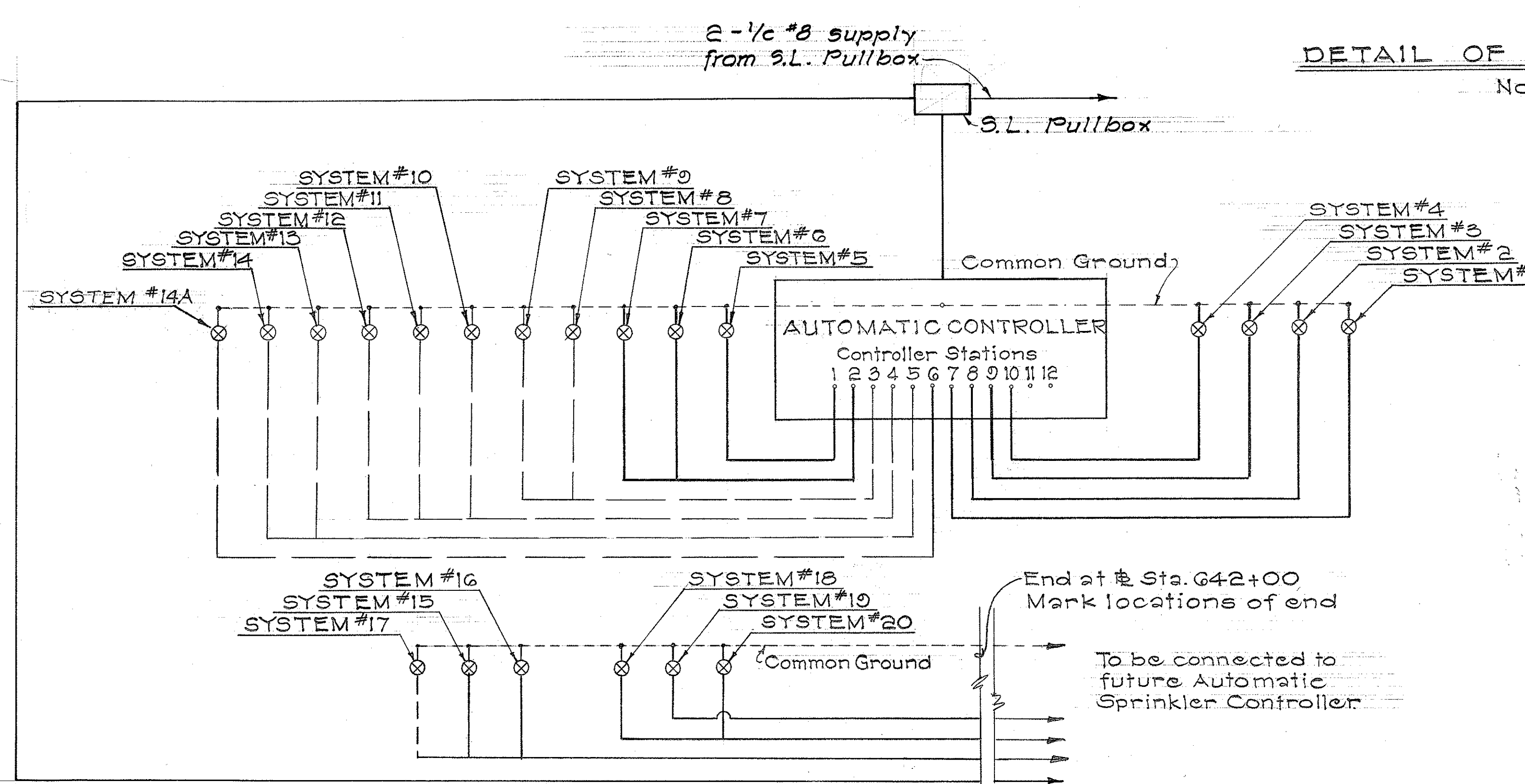
SECTION "C-C"

SIZE	1/4 BEND		1/8 BEND		TEES	
	A	B	A	B	A	B
3"	5"	5"	3.5"	3.5"	4"	4"
4"	6"	6"	5"	5"	6"	6"
6"	16"	10"	9"	10"	10"	12"

NOTE:
1. All bearing surfaces to be carried to undisturbed ground.
2. Concrete Reaction Blocks are recommended sizes. Engineer may change requirements to meet field conditions.

DETAIL OF CONCRETE BLOCKS

Not to Scale



NOTE:
1. All wire are No. 14 Gage Direct Burial Wire
2. System No. 8, 9, 10, 11, 12, 13, 14 and 17 shown in dash line is part of Mokapu Saddle Road Sprinkler System.

SCHEMATIC WIRE DIAGRAM FOR AUTOMATIC SPRINKLING

STA. NO.	TIME
1	10:00 PM 10:30 PM
2	10:30 PM 11:00 PM
3	11:00 PM 11:30 PM
4	11:30 PM 12:00 AM
5	12:00 AM 12:30 AM
6	12:30 AM 1:00 AM
7	1:00 AM 1:30 AM
8	1:30 AM 2:00 AM
9	2:00 AM 2:30 AM

Adjustment to the watering sequence may be made to meet watering requirements.

OPERATING SCHEDULE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER SYSTEM

INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(7):13
AND
F.A.I. Proj. No. I-H3-1(2):8

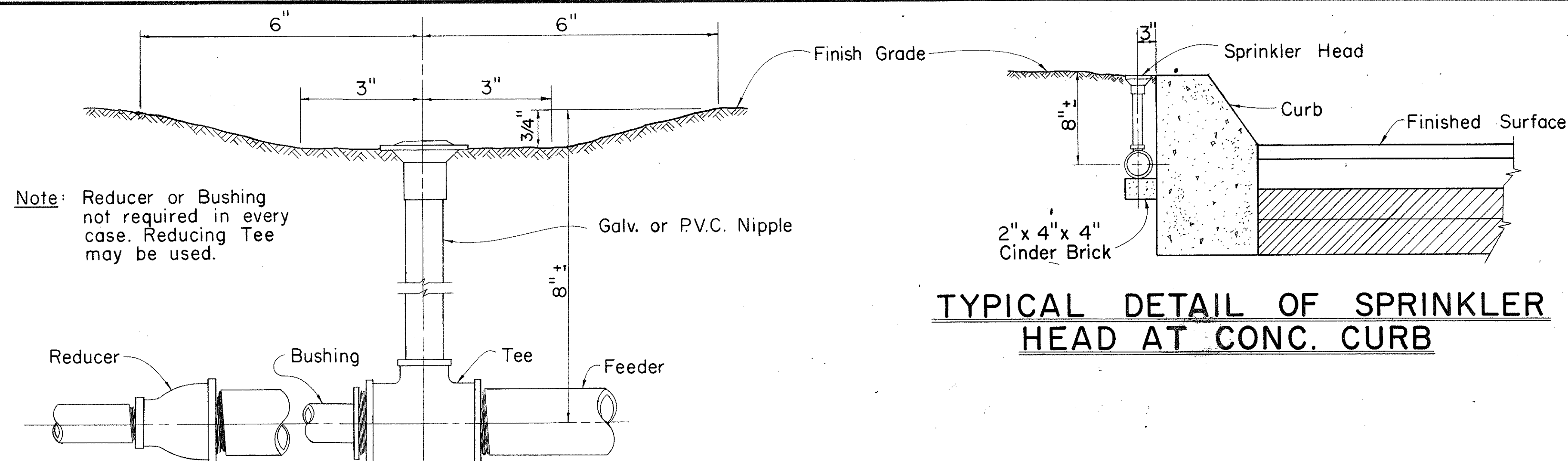
Scale As Shown Date: Nov. 1971
SHEET No. 8 OF 10 SHEETS

THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLANS.

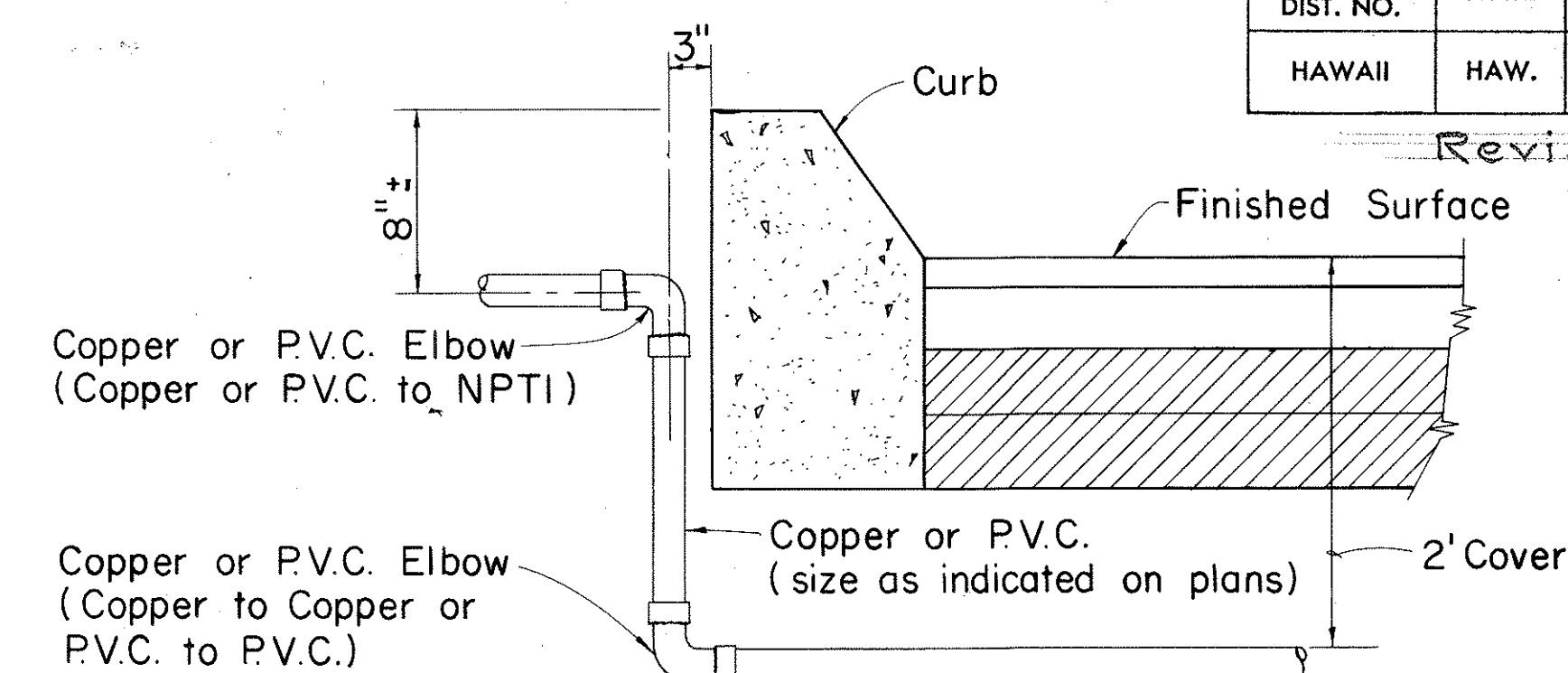
C.O.58 S-8 C.O.141 S-8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(7)13 I-H3-1(2):8	1968	C.O.58 S-9	86

Revised: Nov. 17, 1971

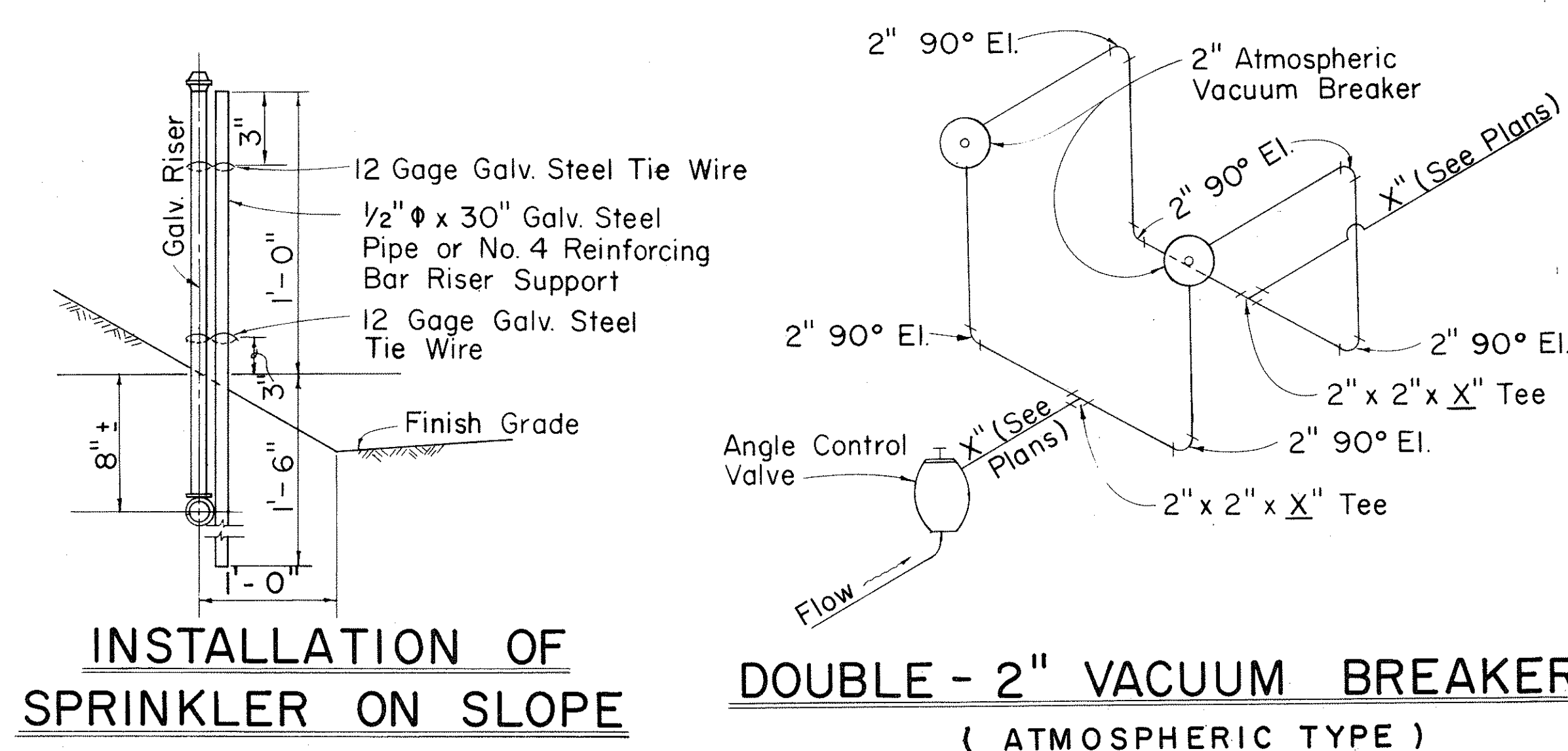


TYPICAL DETAIL OF SPRINKLER HEAD AT CONC. CURB



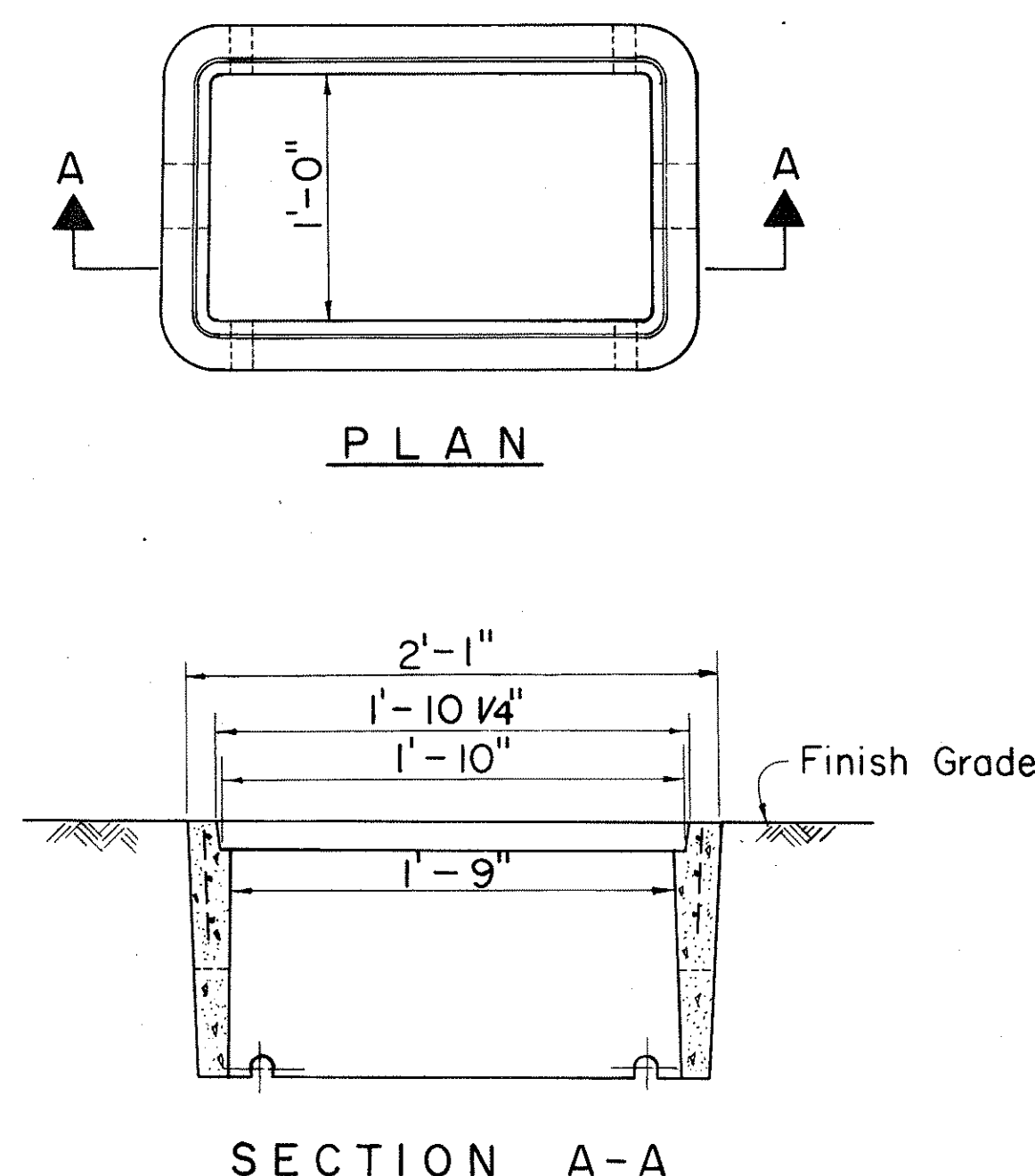
TYPICAL DETAIL OF ROADWAY CROSSING

CONNECTION OF SPRINKLER HEAD TO FEEDER



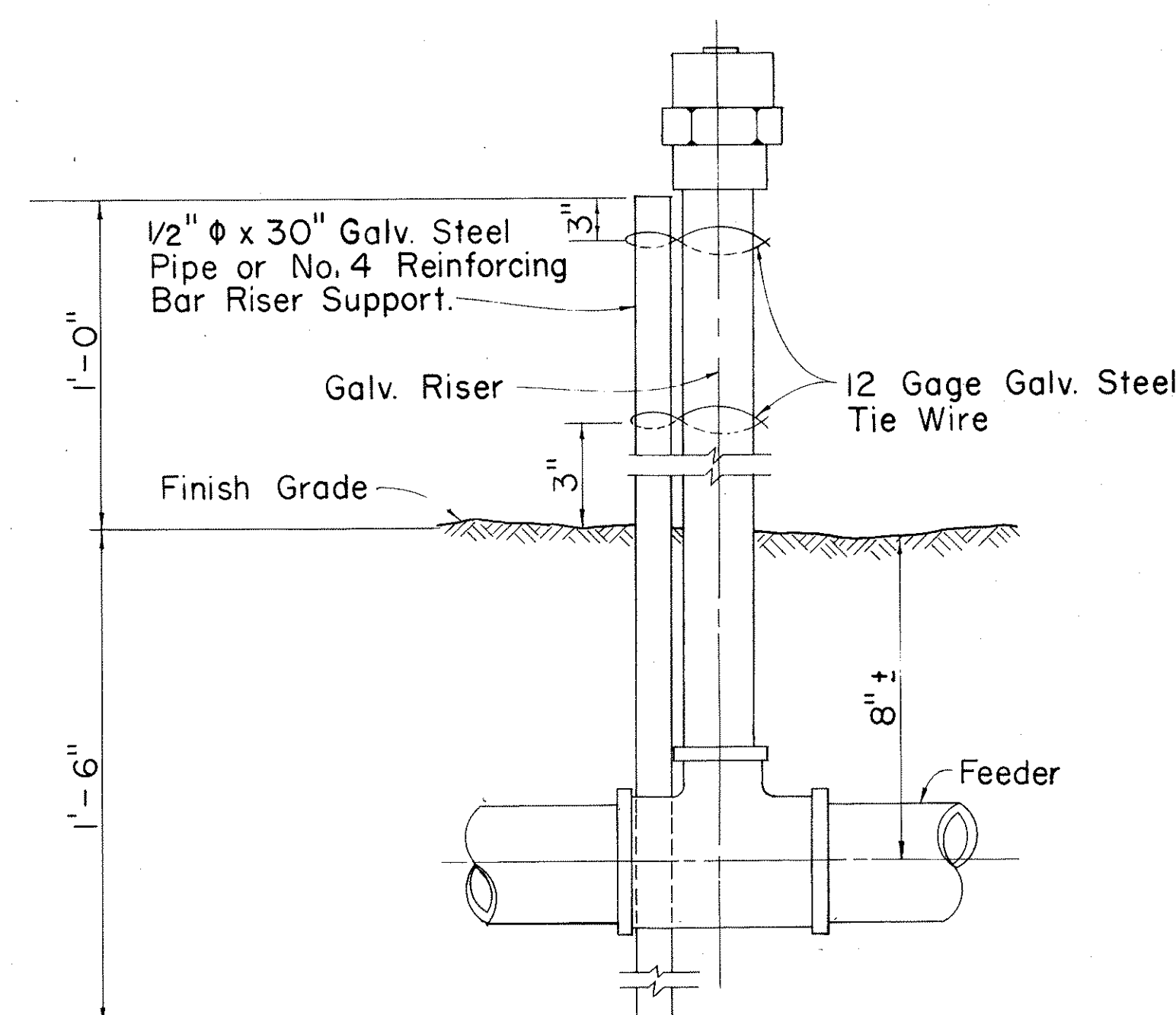
INSTALLATION OF SPRINKLER ON SLOPE

DOUBLE - 2" VACUUM BREAKER (ATMOSPHERIC TYPE)

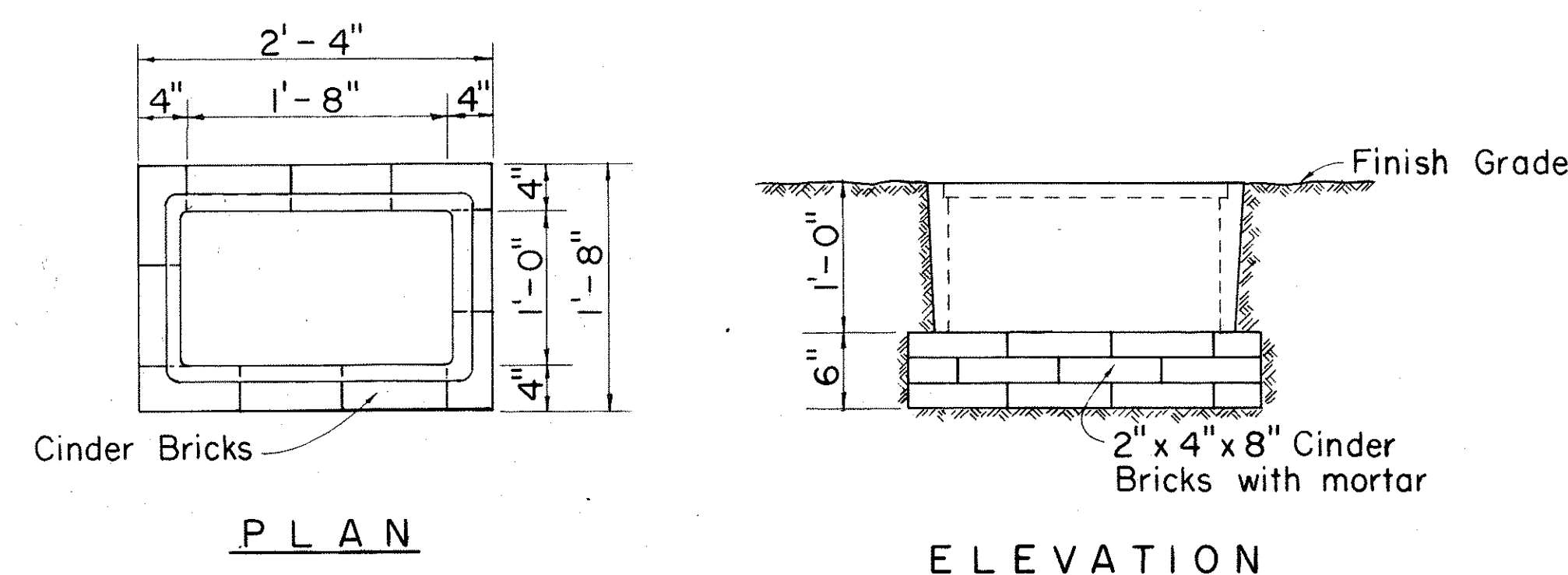


TYPE "A" VALVE BOX

- GENERAL NOTES**
1. Type "A" Valve Box and Pressure Regulator Box is similar to a Honolulu Board of Water Supply Type "X" Meter Box. However, instead of the words "Board of Water Supply" and "Water Meter" on the Cast Iron Covers, imprint the words "Sprinkler Valve" on the Valve Box Cover and "Pressure Regulator" on the Pressure Regulator Box Cover.
 2. Locate the sprinkler valve at a sufficient depth in the Valve Box to make it operable with the cover in place.
 3. Side openings in the Brick wall for the Pressure Regulator Box shall be provided to correspond to the location of the regulator inlet and outlet.
 4. Riser less than 20" will not require support.
 5. Riser support will be considered incidental to the various items of the sprinkler system.



DETAIL OF SPRINKLER HEAD ON RISER



PRESSURE REGULATOR BOX

THIS SHEET IS A SUPPLEMENT TO THE CONTRACT PLANS

APPROVAL RECOMMENDED:
HYDRAULIC DESIGN ENGINEER
6-5-71
DATE

APPROVED:
ASSISTANT CHIEF, ENGINEERING
6-5-71
DATE

NO.	REVISION	APPROVED BY	DATE
1.	This sheet supersedes sheet DH18 dated December 17, 1969.	H.C.	6-5-71

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
SPRINKLER SYSTEM

Not. to Scale

SHEET No. 9 OF 10 SHEETS DH 18

C.O.58 S-9 C.O.141 S-9

DATE	DESIGNED BY	CHECKED BY
PLAN	DESIGNED BY	CHECKED BY
NOTE BOOK	DESIGNED BY	CHECKED BY
No.	DESIGNED BY	CHECKED BY

SPRINKLER SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EH33-1(7)13 I-H3-1(2)8	1968	C.O.58 S-10	86

Revised: Nov. 17, 1971

SYSTEM NO.	ITEM NO.	ESTIMATED QUANTITIES																												REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
NOTE BOOK: _____
QUANTITIES BY: _____

THIS SHEET IS A SUPPLEMENT TO THE CONTRACT PLANS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
SPRINKLER SUMMARY
INTERSTATE ROUTE 4-3
F.A.I. Proj. No. I-H3-1(7)-13
AND
F.A.I. Proj. No. I-H3-1(2)-8
Date: Nov. 1971
SHEET No. 10 OF 10 SHEETS