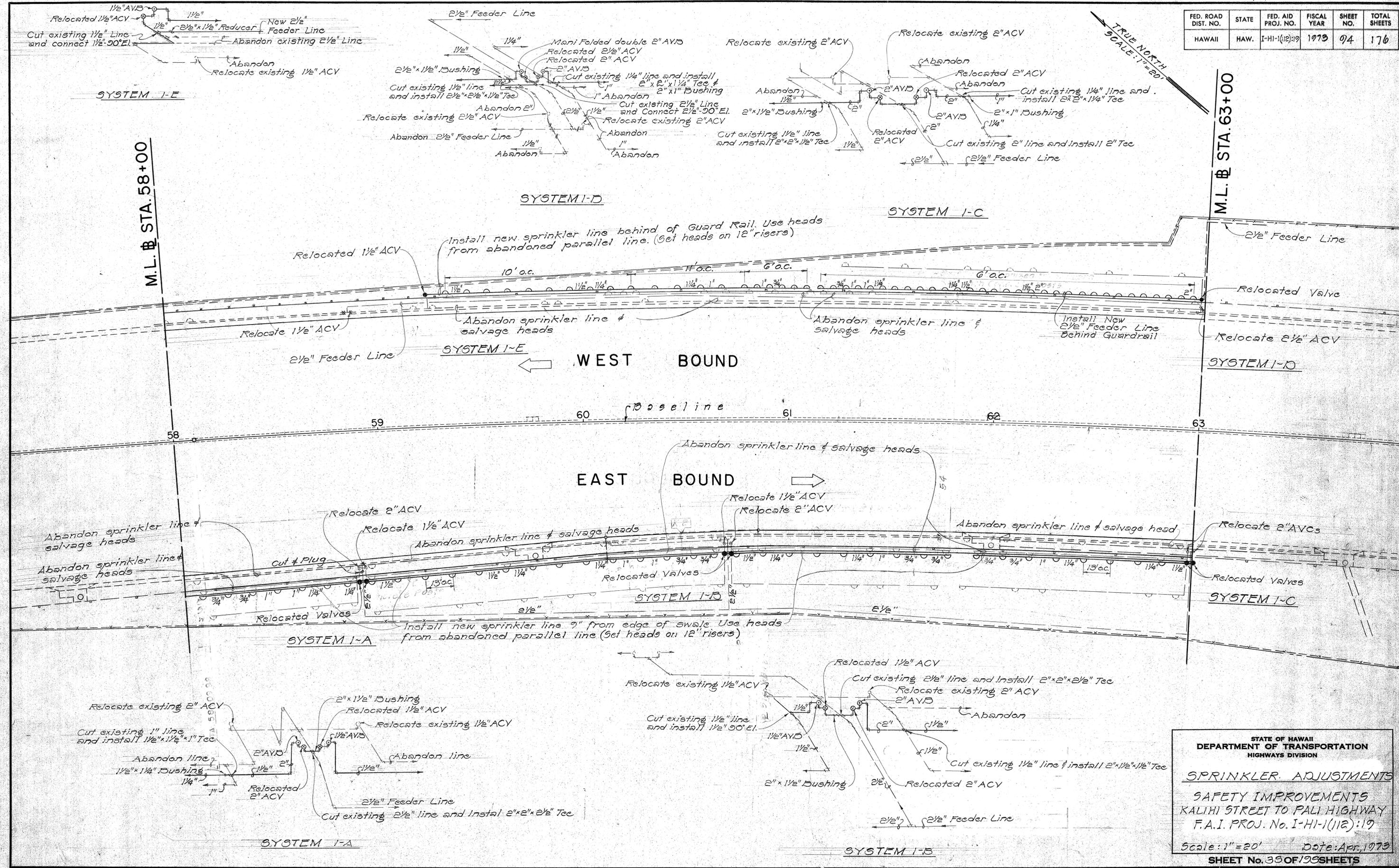


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
	HAWAII	HAW.	I-HI-1(112):19	1973	04	176

TRUE NORTH
SCALE: 1"=20'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS

SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. No. I-HI-1(112):19

Scale: 1"=20' Date: Apr. 1973

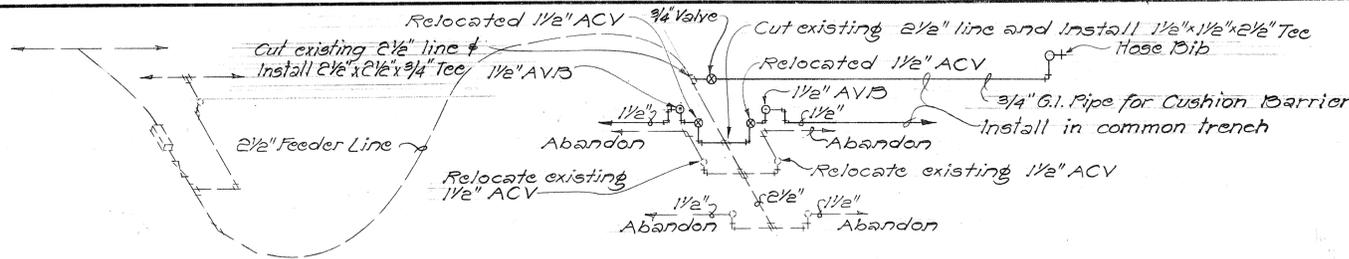
SHEET No. 35 OF 196 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112):19	1973	96	176

TRUE NORTH
Scale: 1"=20'

M.L. STA. 68+00

M.L. STA. 73+75
P.C. STA. 73+89.02



SYSTEM 3-A

R/W Line

NORTH FRONTAGE

RAMP "1"

WEST BOUND

EAST BOUND

SOUTH FRONTAGE

R/W Line

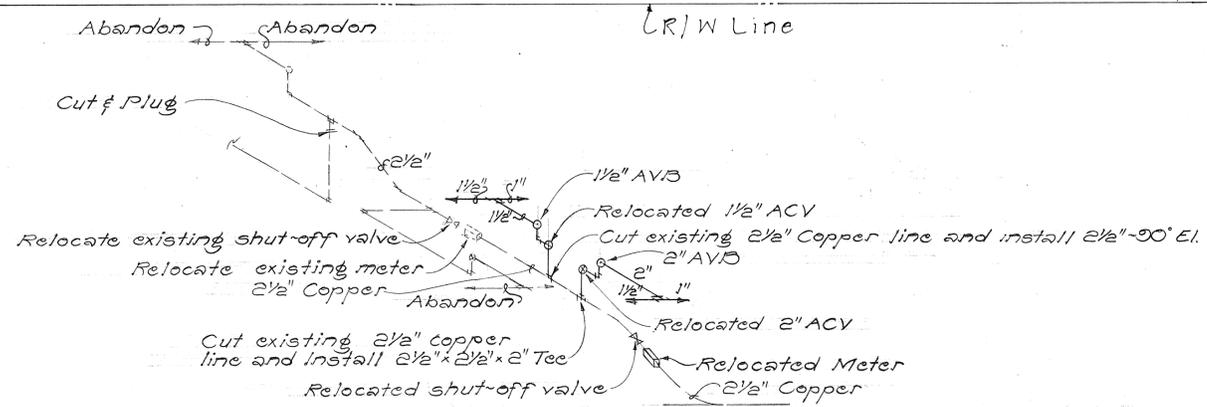
SYSTEM 3-B

RAMP "2"

Baseline
328° 00' 00"

68 69 70 71 72 73 74

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



SYSTEM 3-B

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS

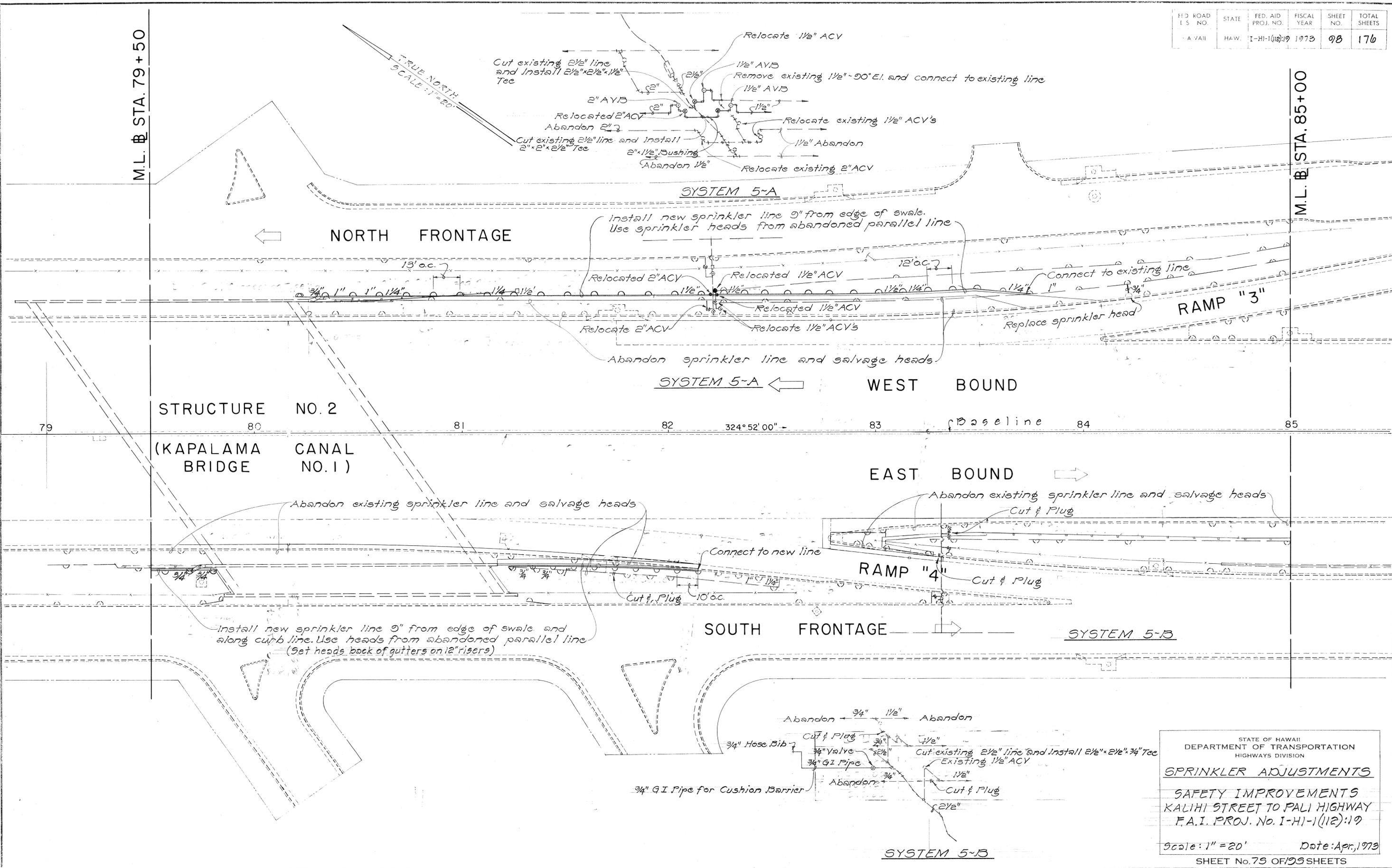
SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. NO. I-HI-1(112):19

Scale: 1"=20' Date: Apr, 1973
SHEET No. 96 OF 95 SHEETS

F.D. ROAD E.S. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
A-7411	HAW.	I-HI-1(12):19	1973	98	176

M.L. # STA. 79+50

M.L. # STA. 85+00



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS

SAFETY IMPROVEMENTS
 KALIHI STREET TO PALI HIGHWAY
 F.A.I. PROJ. No. I-HI-1(12):19

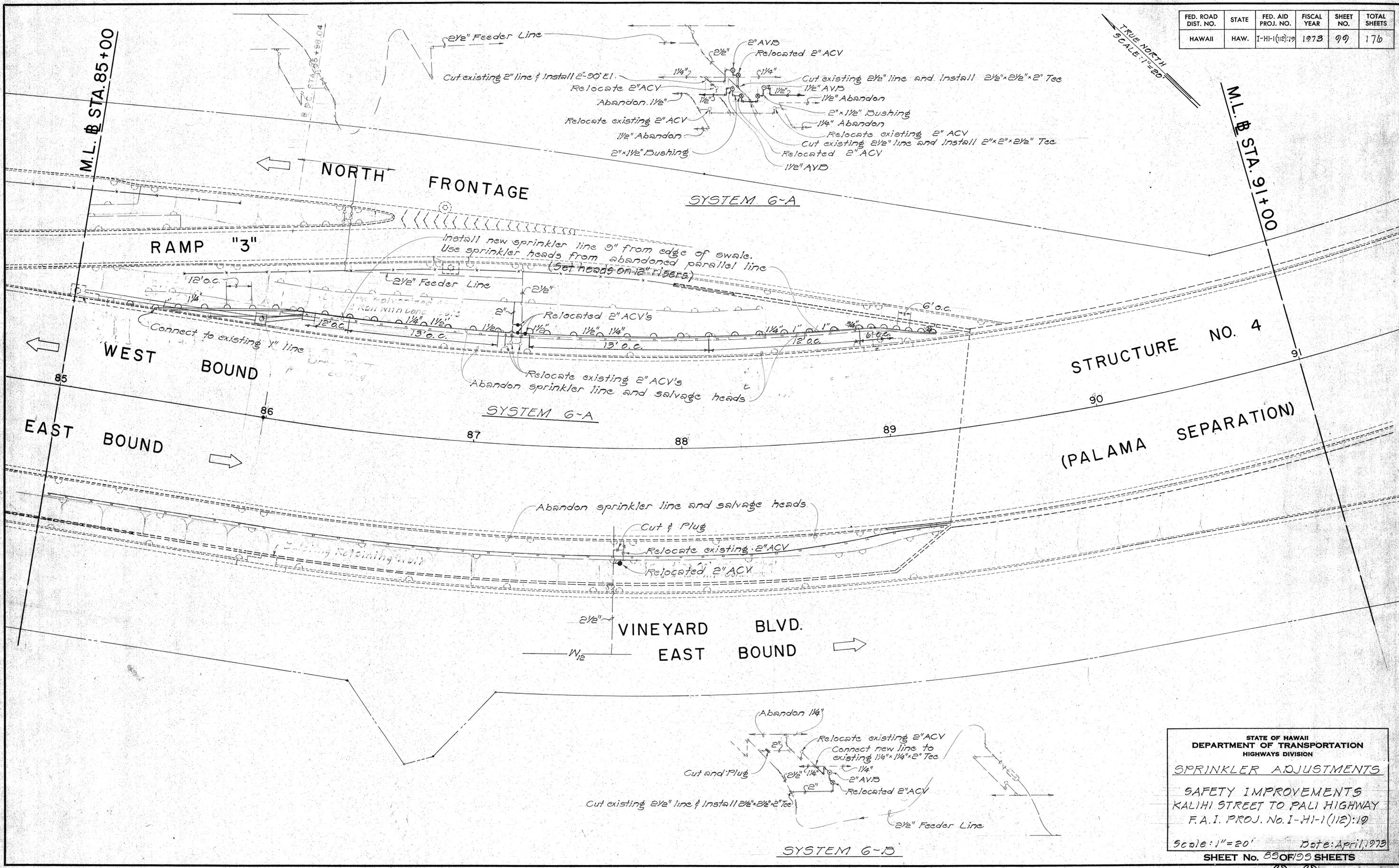
Scale: 1" = 20' Date: Apr., 1973

SHEET No. 73 OF 93 SHEETS

DS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112):19	1973	99	176

TRUE NORTH
SCALE: 1"=20'



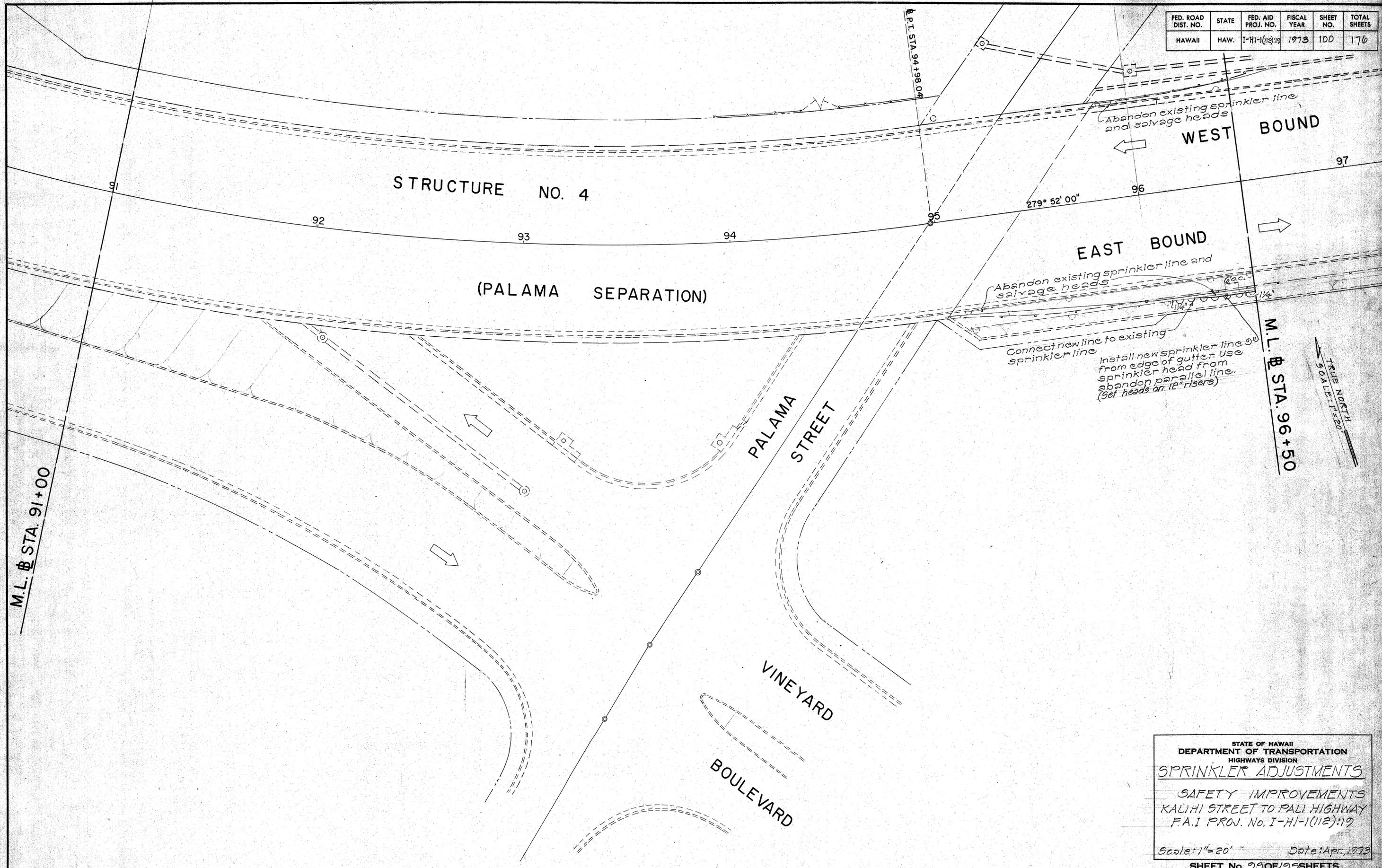
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 CHECKED BY: []
 DATE: []

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS
 SAFETY IMPROVEMENTS
 KALIHI STREET TO PALI HIGHWAY
 F.A.I. PROJ. No. I-HI-1(112):19

Scale: 1"=20' Date: April, 1973
 SHEET No. 89 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112):19	1973	100	176



M.L. STA. 91+00

P.T. STA. 94+98.04

M.L. STA. 96+50

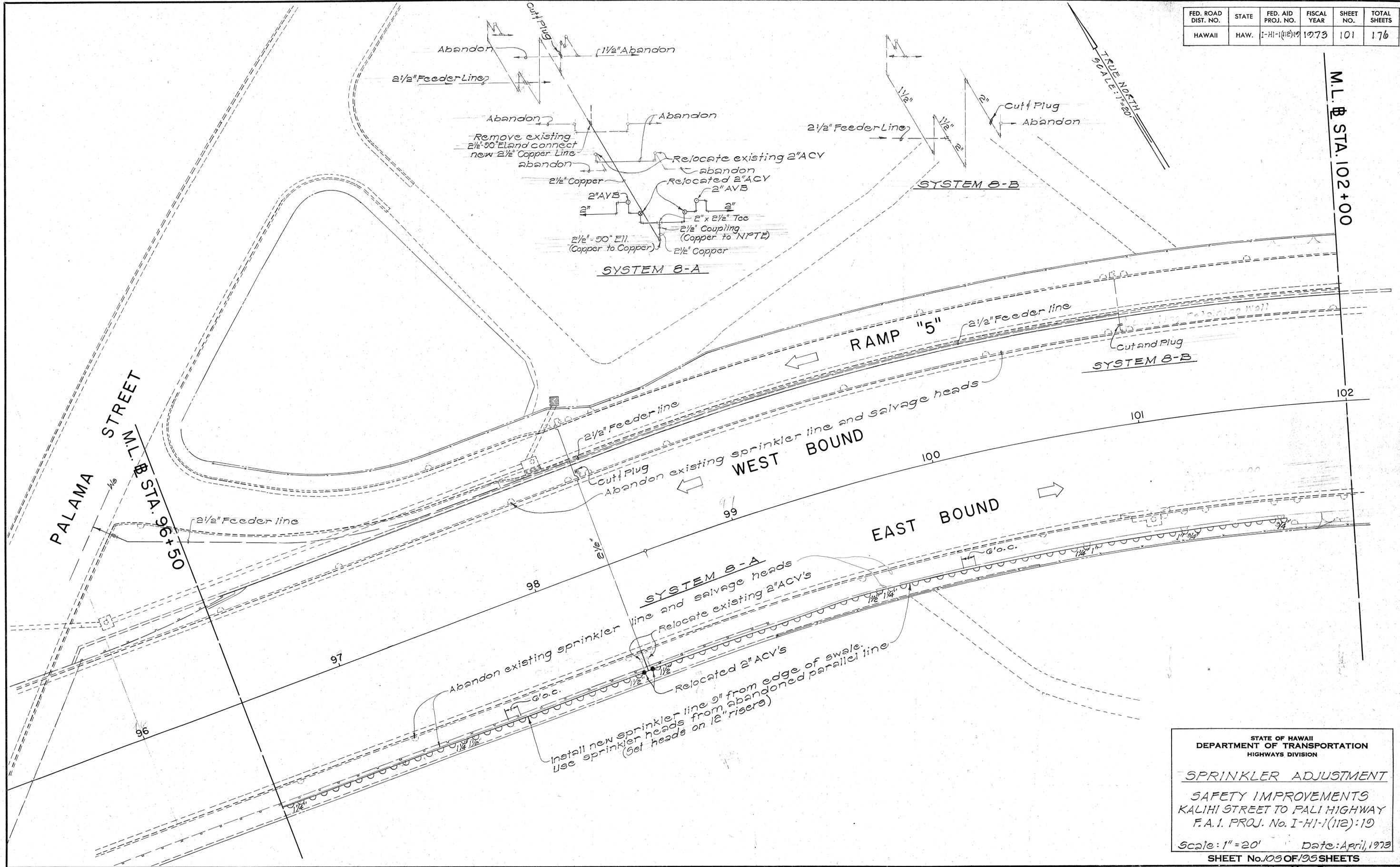
TRUE NORTH
SCALE: 1"=20'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER ADJUSTMENTS
SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. No. I-HI-1(112):19
Scale: 1"=20' Date: Apr. 1973
SHEET No. 09 OF 105 SHEETS

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

REVISED: 10/1/73

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112):10	1973	101	176



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER ADJUSTMENT

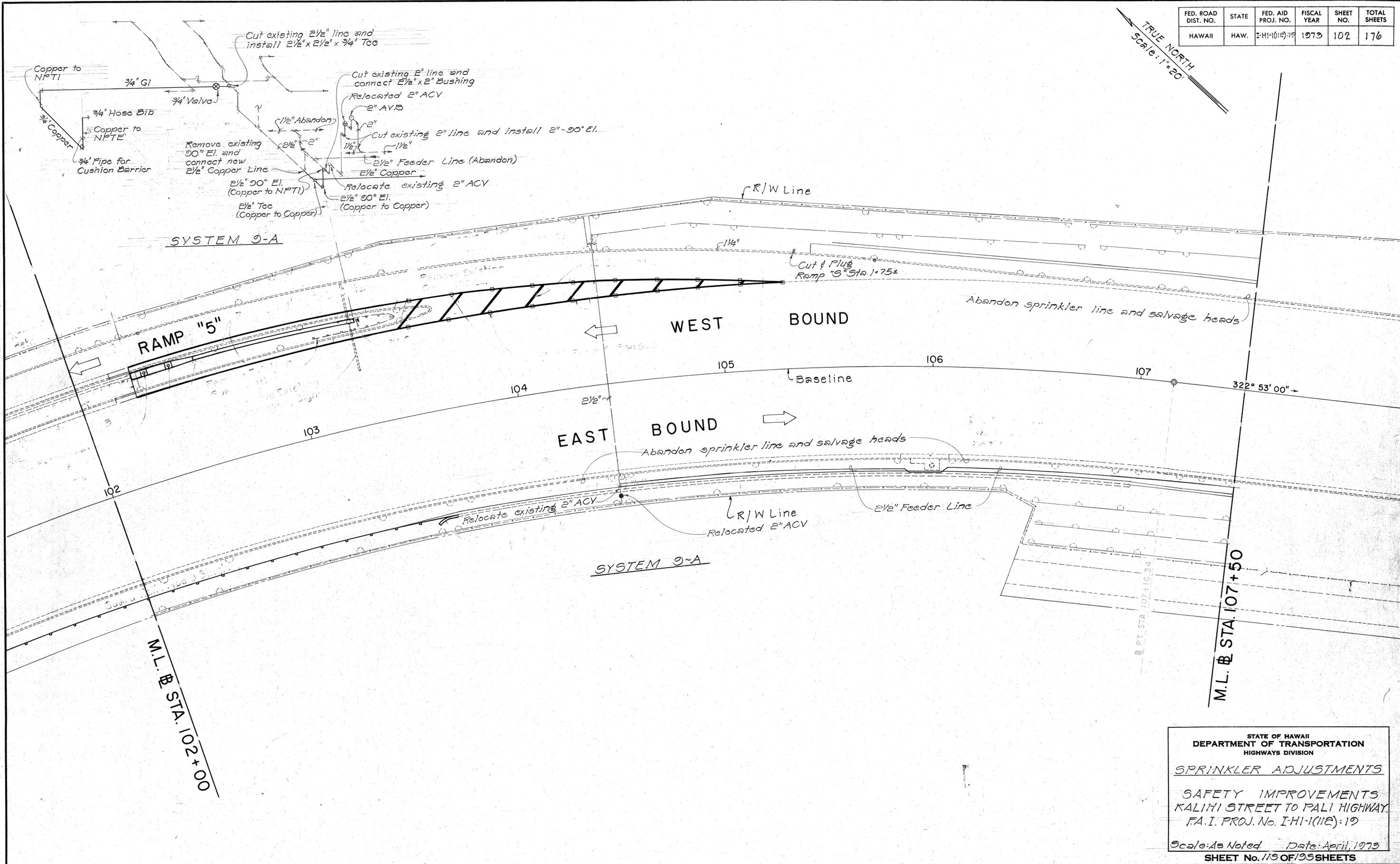
SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. No. I-HI-1(112):10

Scale: 1" = 20' Date: April, 1973

SHEET No. 103 OF 106 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(112)-19	1973	102	176

TRUE NORTH
Scale: 1"=20'



DESIGNED BY	DATE
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

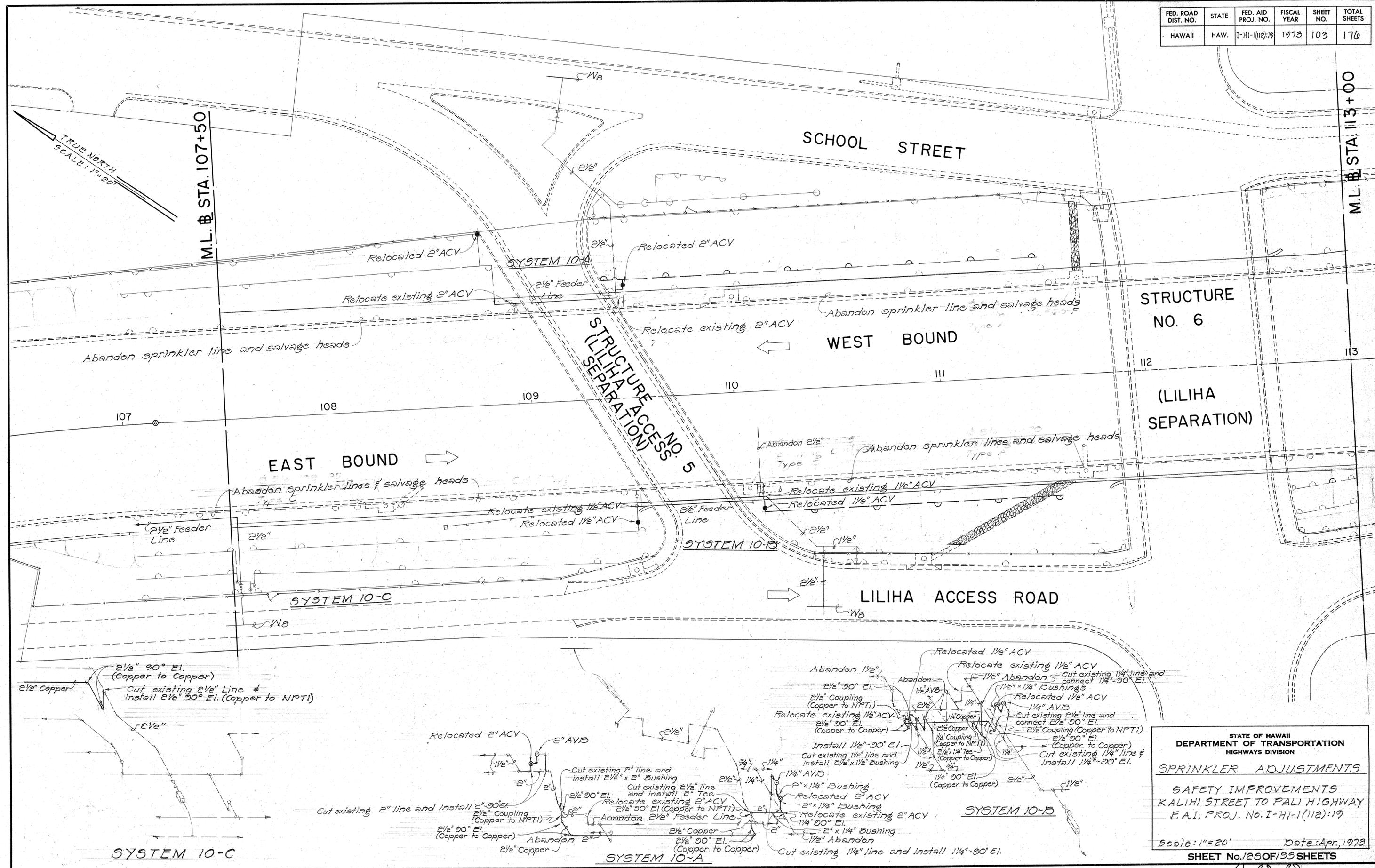
SPRINKLER ADJUSTMENTS

SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. No. I-HI-1(112)-19

Scale: As Noted Date: April, 1973
SHEET No. 102 OF 176 SHEETS

REVISED: 10/1/73

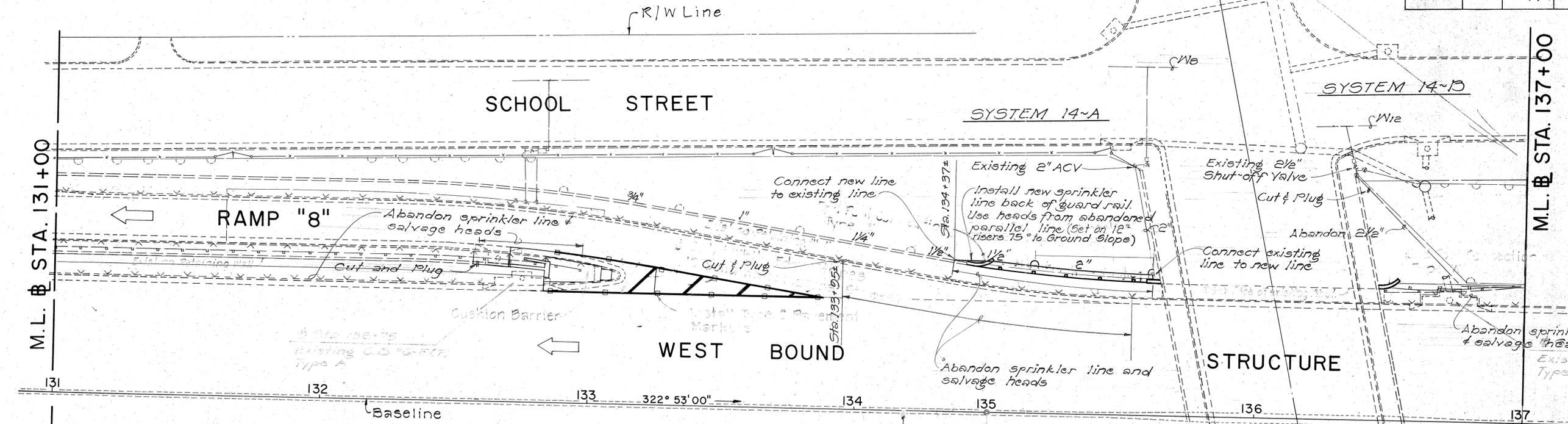
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(112):19	1973	103	176



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SPRINKLER ADJUSTMENTS
 SAFETY IMPROVEMENTS
 KALIHI STREET TO PALI HIGHWAY
 F.A.I. PROJ. No. I-HI-1(112):19
 Scale: 1"=20' Date: Apr., 1973
 SHEET No. 123 OF 195 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(12):19	1973	107	176



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

PIPING DIAGRAM OF WATER SERVICE FOR CUSHION BARRIER AT STA. 133+00 ± LT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS

SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. PROJ. No. I-HI-1(12):19

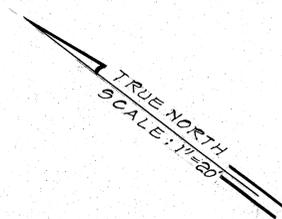
Scale: 1" = 20' Date: Apr. 1973

SHEET No. 107 OF 176 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-71-1(112)19	1973	108	176

M.L. & STA. 137+00

M.L. & STA. 143+00



SCHOOL STREET

WEST BOUND

EAST BOUND

RAMP "D"

137 138 139 322°53'00" 140 141 142 143

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPRINKLER ADJUSTMENTS

SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. Proj. No. I-71-1(112)-19

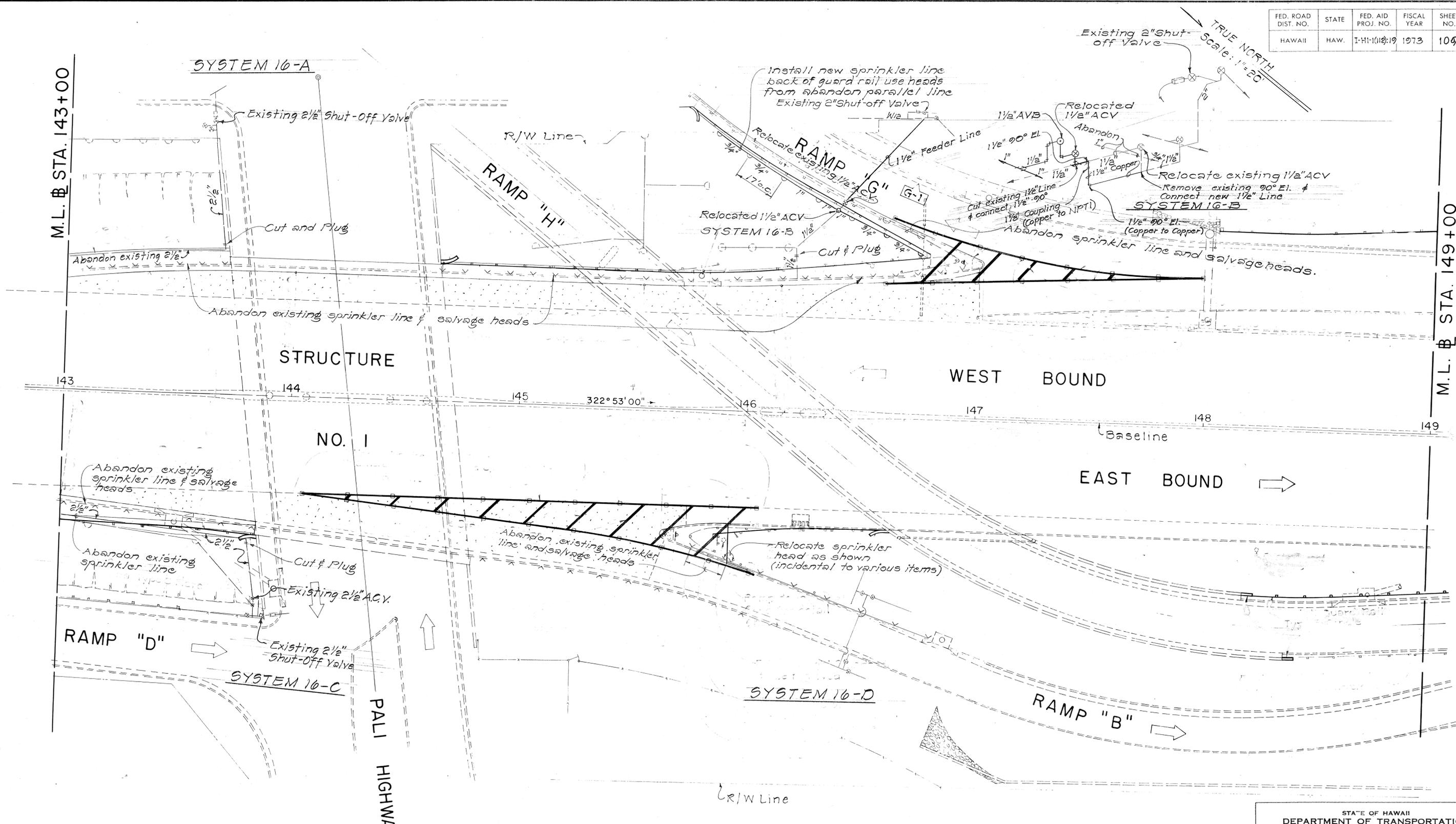
Scale: 1"=20' Date: April, 1973
SHEET No. 108 OF 133 SHEETS

108

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1012-19	1973	109	176

M.L. # STA. 143+00

M.L. # STA. 149+00



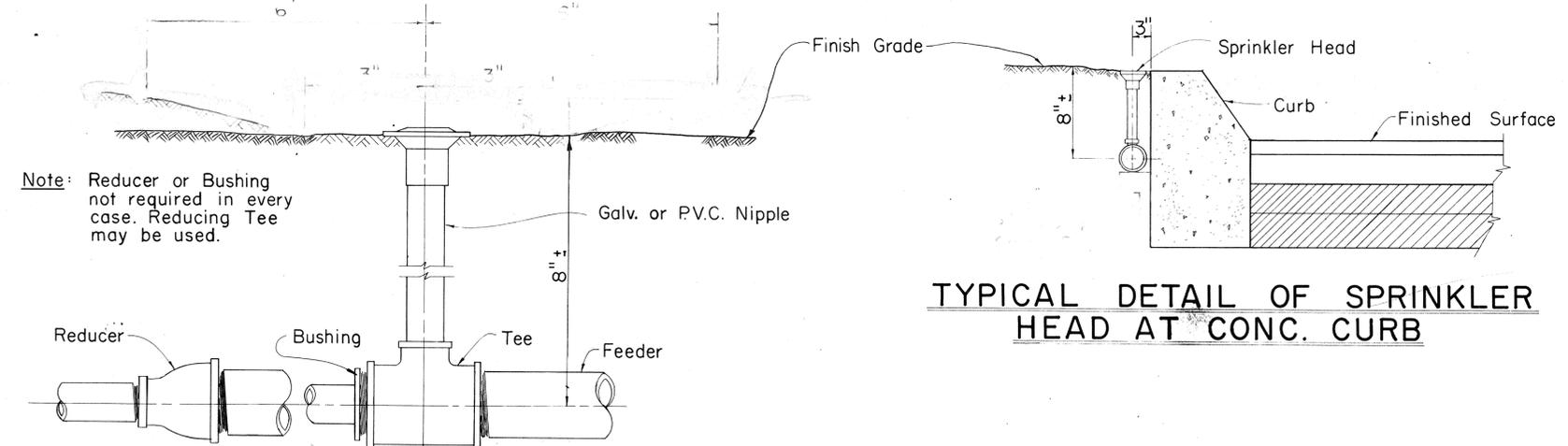
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

CURVE DATA			
	L-2	F-1	G-1
Δ	6° 32' 22"	3° 26' 00"	73° 46' 00"
R	921.75	1,000.00	350.00
T	52.66	29.97	262.63
Lc	105.21	59.92	450.61

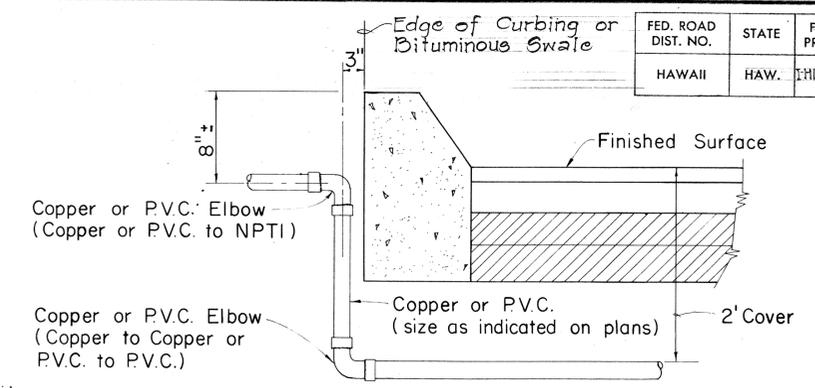
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SPRINKLER ADJUSTMENTS
 SAFETY IMPROVEMENTS
 KALIHI STREET TO PALI HIGHWAY
 F.A.I. PROJ. No. I-HI-1(112)-19

Scale: 1" = 20' Date: Apr, 1973
 SHEET No. 109 OF 135 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI(112):19	1973	110	176

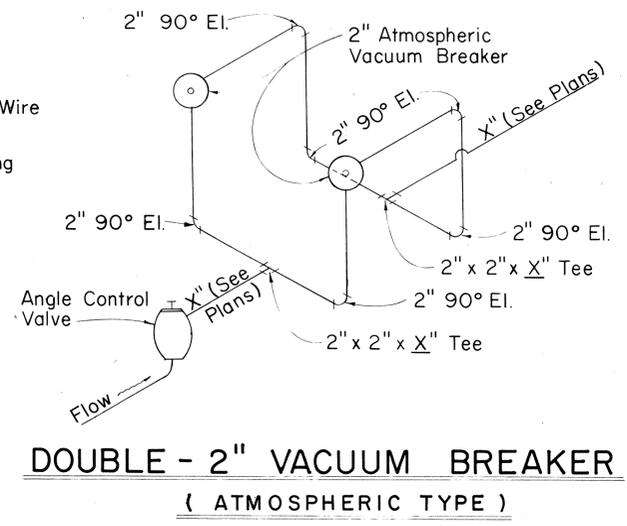
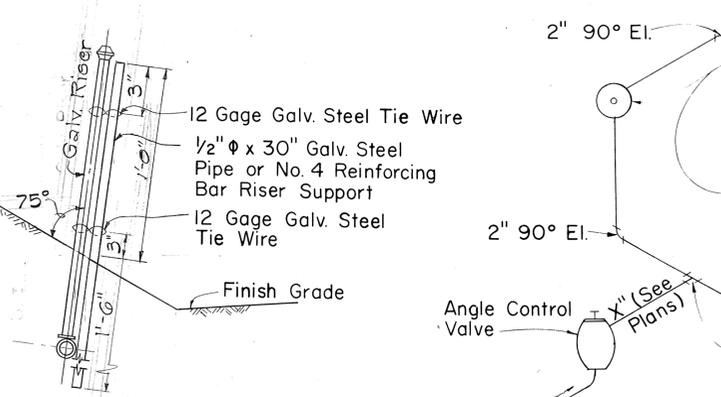


TYPICAL DETAIL OF SPRINKLER HEAD AT CONC. CURB



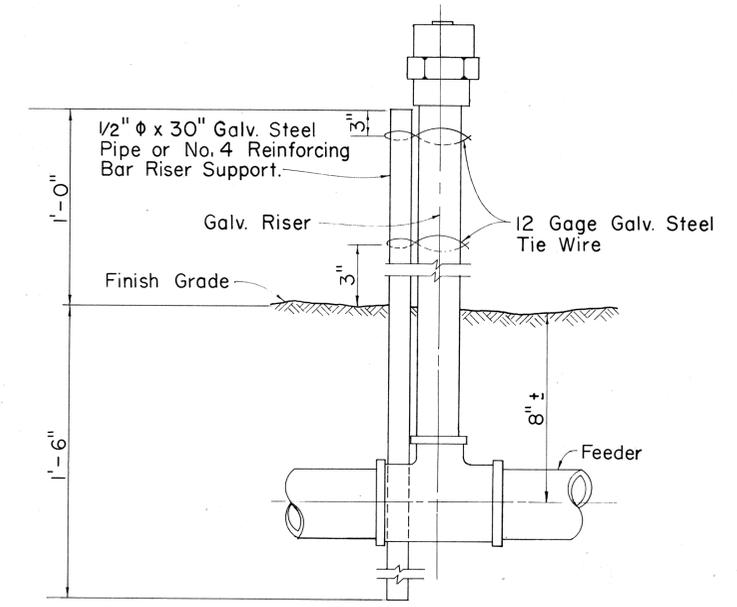
TYPICAL DETAIL OF ROADWAY CROSSING

CONNECTION OF SPRINKLER HEAD TO FEEDER

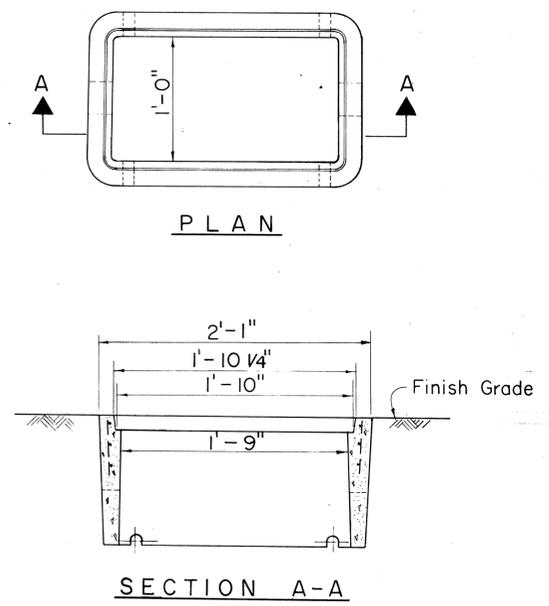


DOUBLE - 2" VACUUM BREAKER (ATMOSPHERIC TYPE)

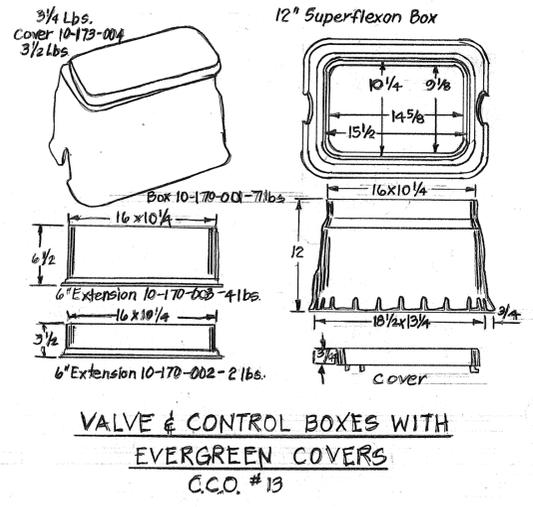
INSTALLATION OF SPRINKLER ON SLOPE



DETAIL OF SPRINKLER HEAD ON RISER



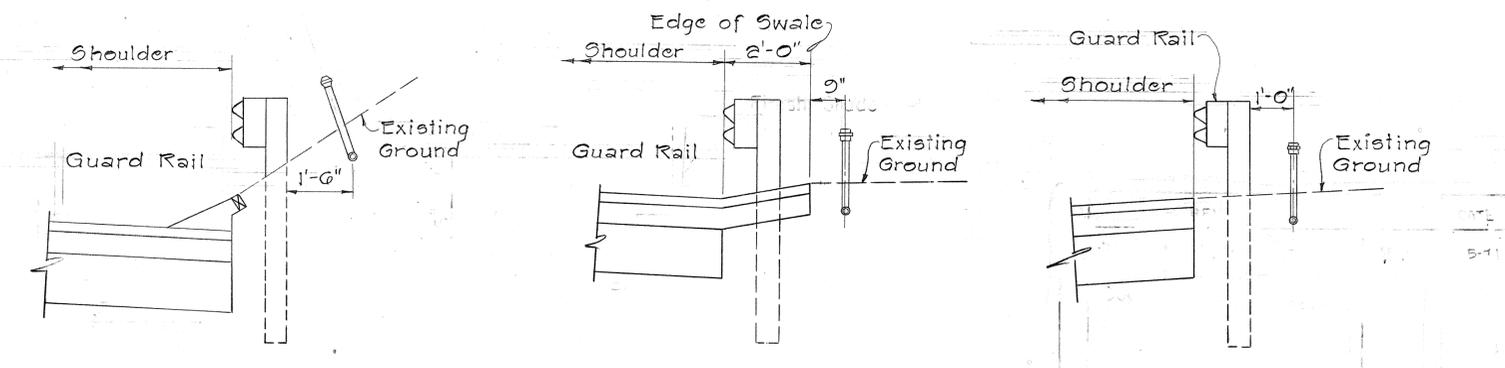
TYPE "A" VALVE BOX



VALVE & CONTROL BOXES WITH EVERGREEN COVERS C.C.O. #13

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. Riser less than 20" will not require support.
4. Riser support will be considered incidental to the various items of the sprinkler system.



TYPICAL LOCATIONS OF SPRINKLER HEADS

DATE	BY
DESIGNED BY	BY
TRACED BY	BY
NOTE BOOK	NO.
CHECKED BY	BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SPRINKLER SYSTEM DETAILS
SAFETY IMPROVEMENTS
KALIHI STREET TO PALI HIGHWAY
F.A.I. Proj. No. IHI-1(112):19
Not to Scale Date: April, 1973
SHEET No. 110 OF 199 SHEETS DH 18