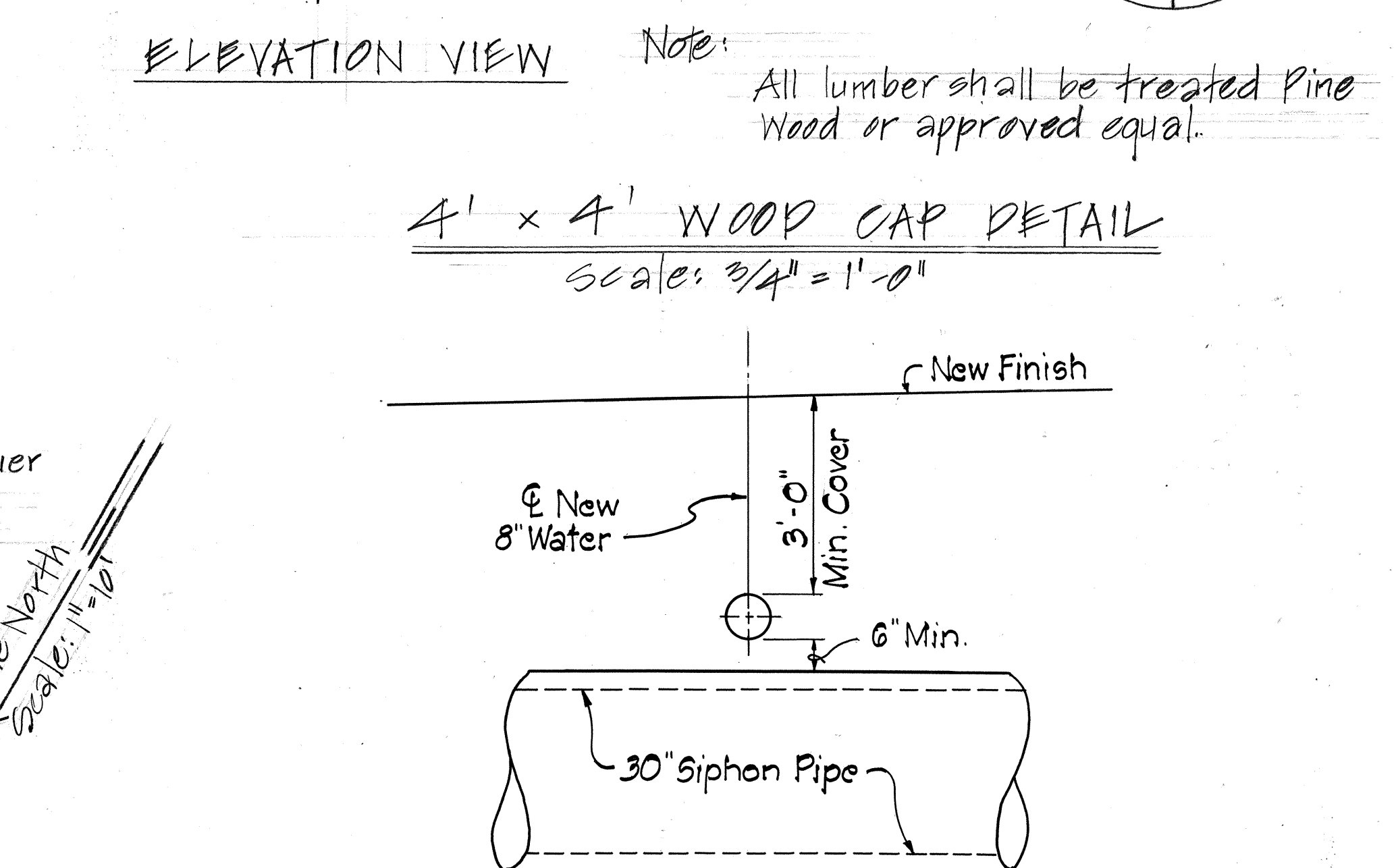
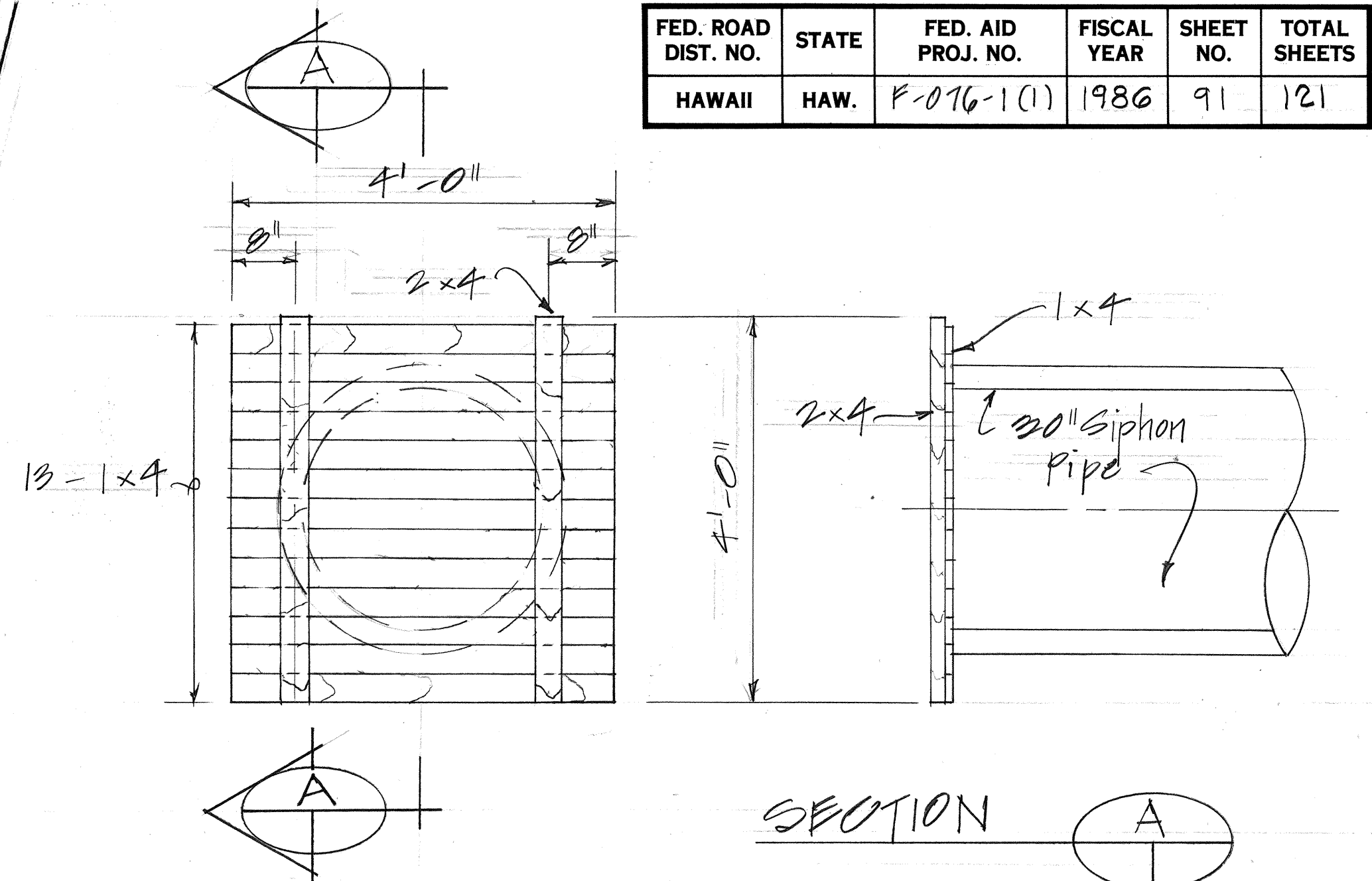
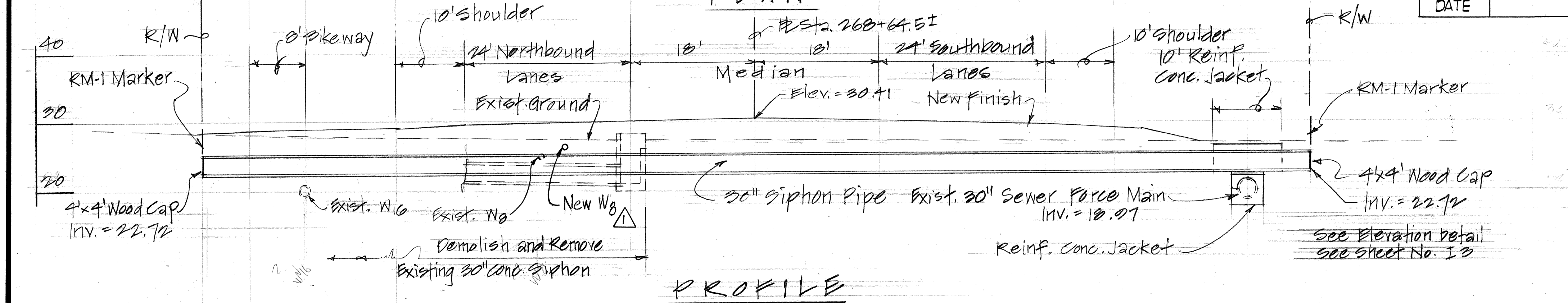
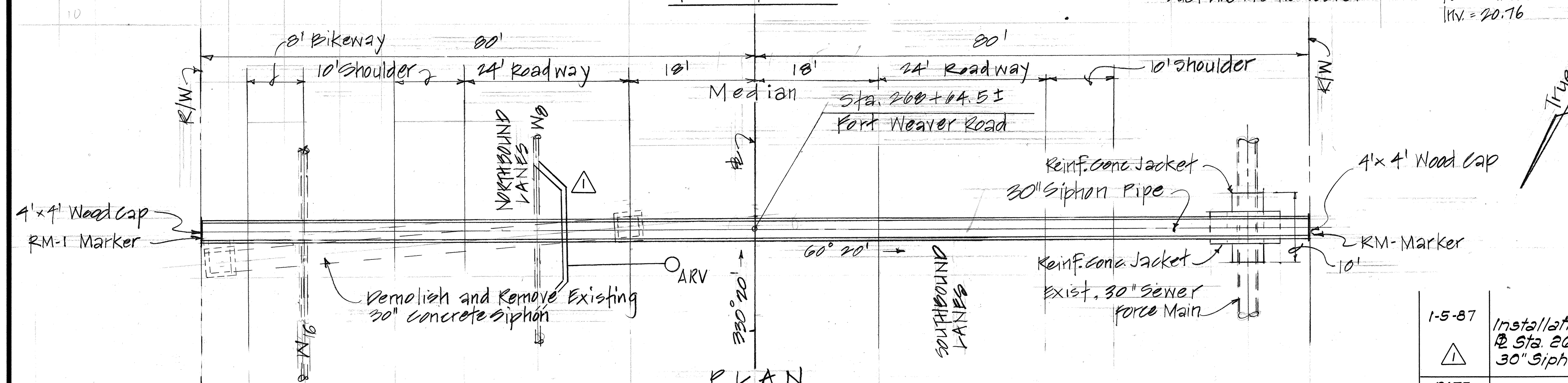
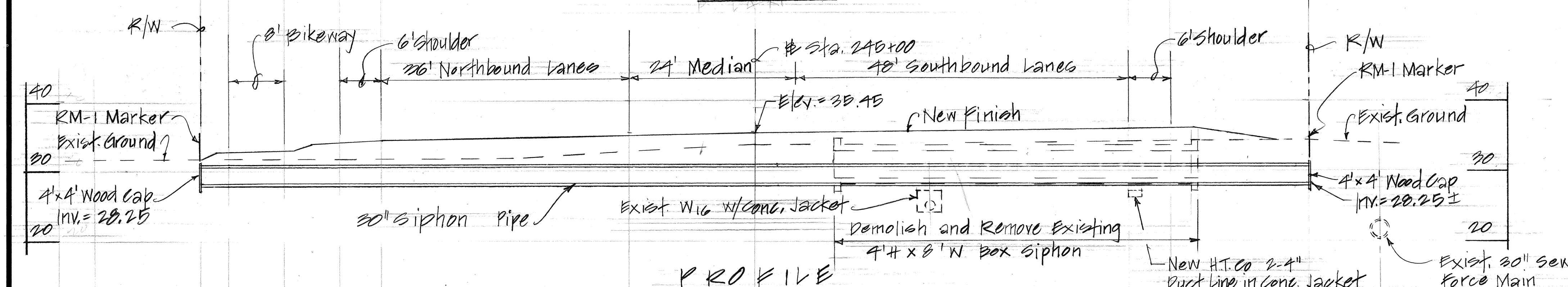
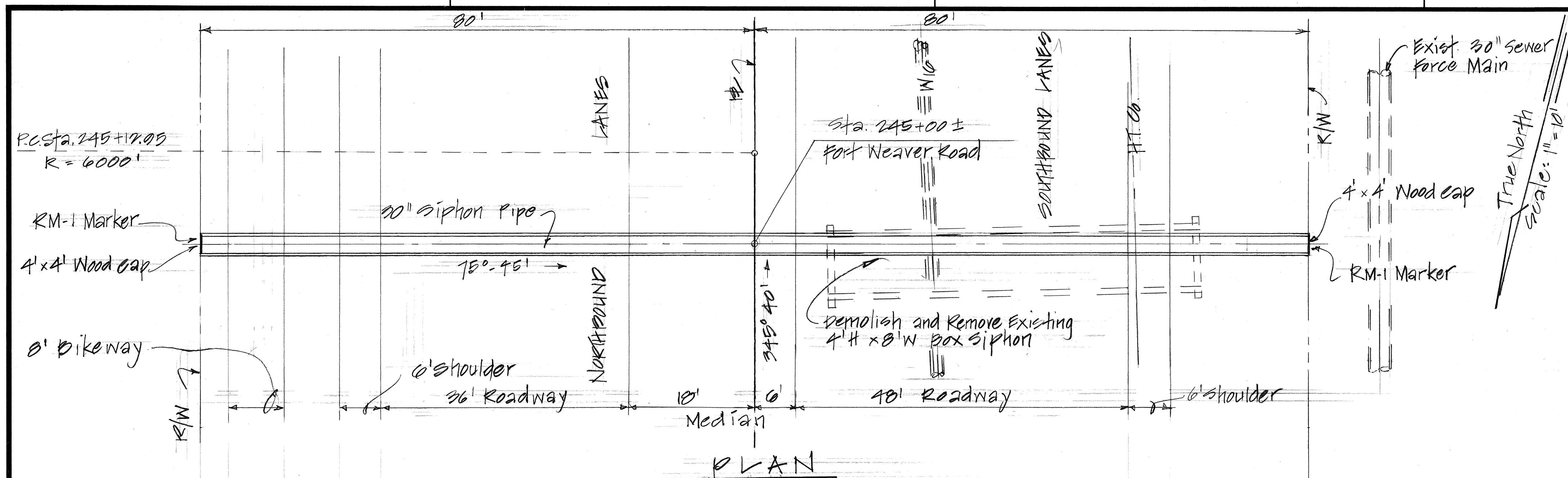


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	P-076-1(1)	1986	91	121



APPROVED:	DATE
<i>W. D. Ballou</i>	9/27/85
OAHU SUGAR COMPANY, LTD.	DATE
<i>R. W. Gato</i>	9-24-85
CHIEF, DIV. OF WASTEWATER MANAGEMENT	DATE
CHIEF, PLANNING & ENGINEERING, B.W.S.	DATE

1-5-87	Installation of New 8" Waterline at Sta. 268+60± shown, to clear 30" Siphon Pipe.	B.W.S.
DATE	REVISION	APPROVAL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION DETAILS
30 inch SIPHON PIPES
FORT WEAVER ROAD
Kenton Road to Hanakahi Street
F.A.P. Project No. P-076-1(1)
Scale: As Shown Date: May 1985

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	P-076-1(1)	1986	ADD 92	121

Estimated Quantities

Sta. 245+00	Struc. Exc.	200	C.Y.
	30" Siphon Pipe	160	L.F.
Sta. 268+64.5	Struc. Exc.	233	C.Y.
	Class A Conc.	7.8	C.Y.
	Reinf. Steel	520	Lbs.
	30" Siphon Pipe	160	L.F.
Sta. 280+42.6	Struc. Exc.	364	C.Y.
	30" Siphon Pipe	138	L.F.

Note:

- The 4x4 Wood Caps and RM-1 Markers shall not be measured. Their cost shall be incidental to the various contract items.
- The 12" irrigation line shall remain active throughout the construction period. Extreme care must be exercised during the installation of the new 30" siphon. Any damages done to the 12" irrigation line due to the Contractor's operations, shall be immediately repaired by the Contractor at his cost.

1/15/86 Change quantities for siphon pipe per ADD. No. 1

DATE REVISION

APPROVED:

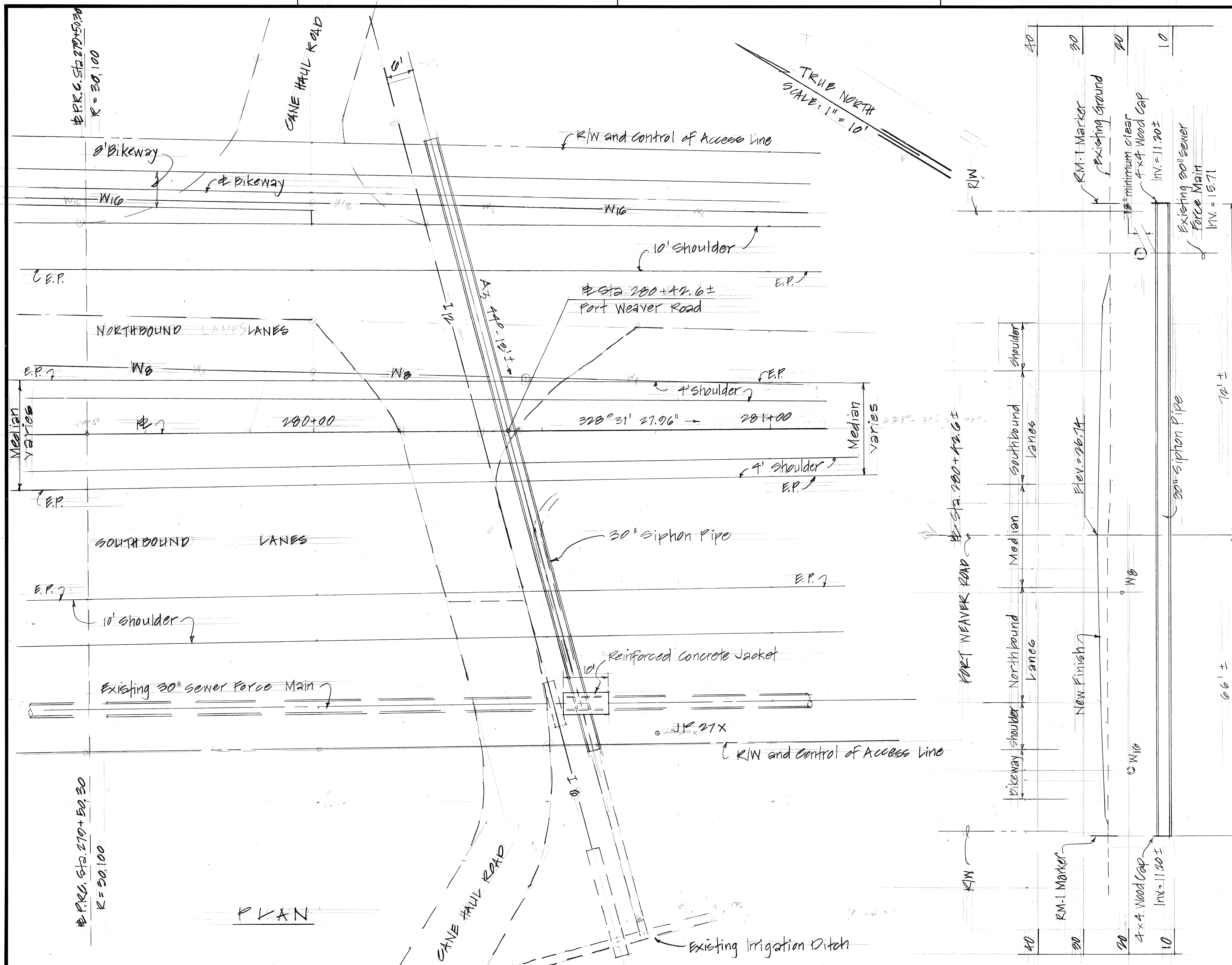
W.D. Baepun 9/25/85
OAHU SUGAR COMPANY, LTD. DATE

J. Aguma 9/27/85
CHIEF, DIV. OF WASTEWATER MANAGEMENT DATE

R. Hagito 9-24-85
CHIEF, PLANNING & ENGINEERING, B.W.S. DATE

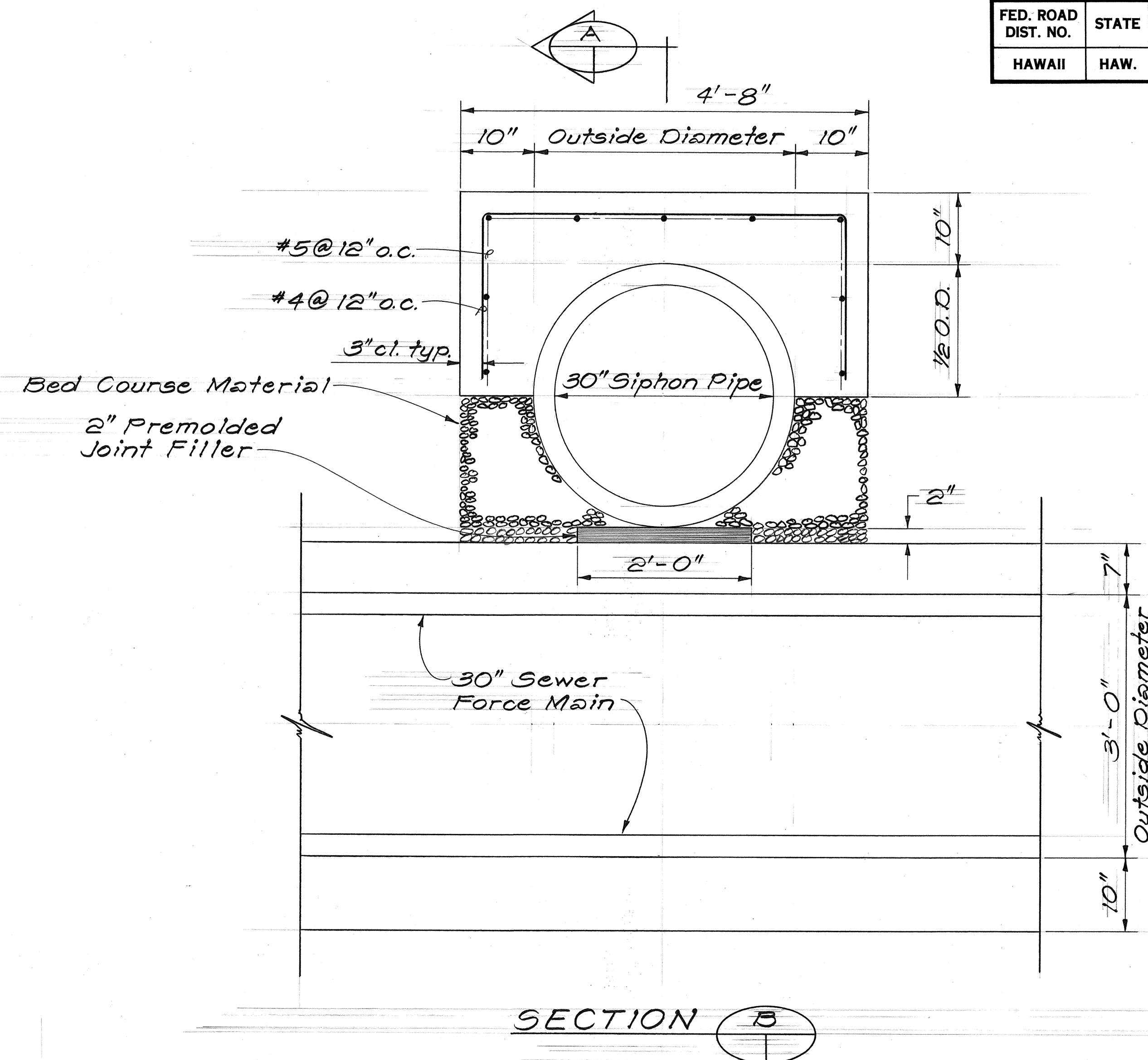
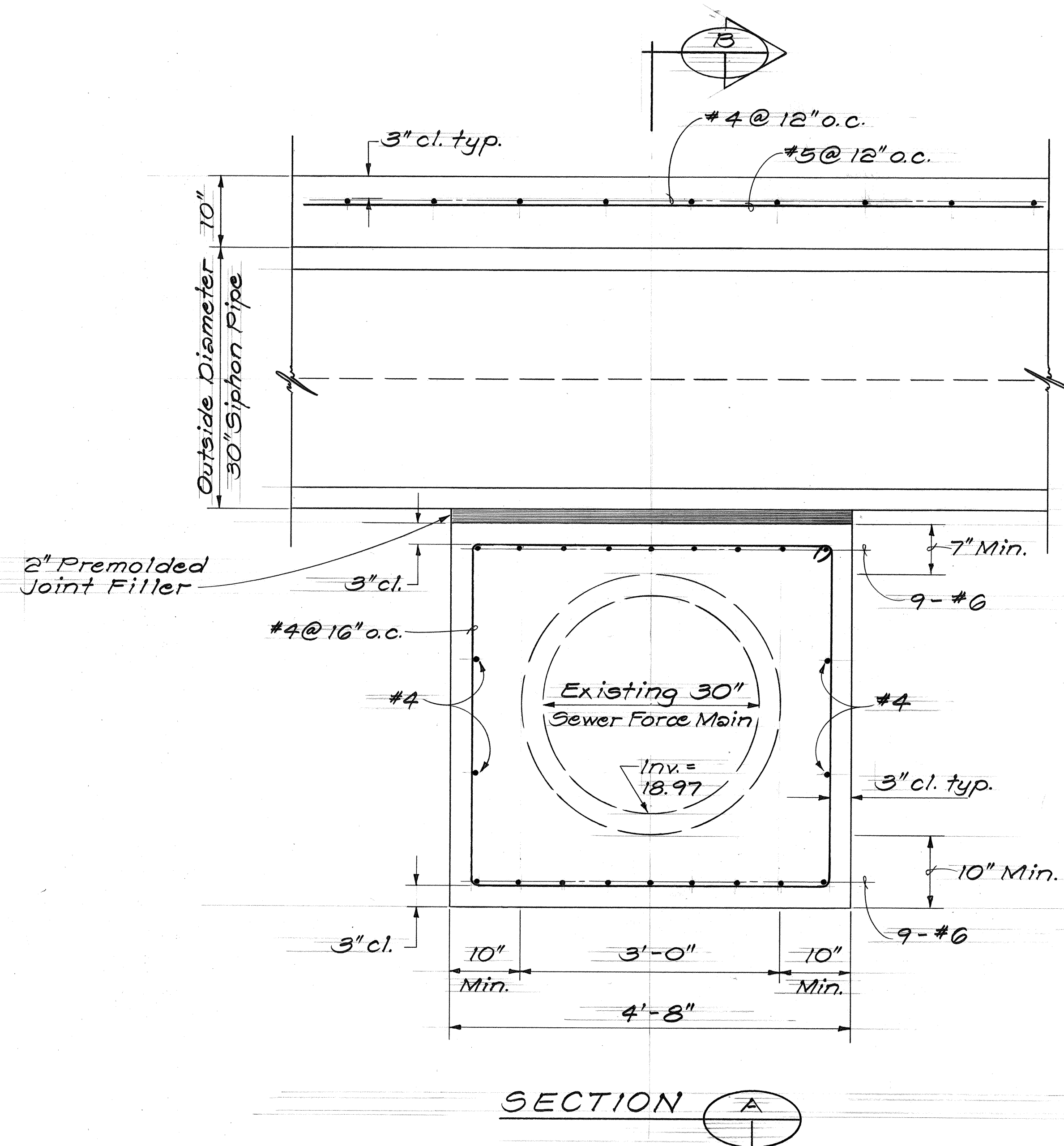
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IRRIGATION DETAILS
30 inch SIPHON PIPE
PORT WEAVER ROAD
Kenton Road to Hanakahi Street
F.A.P. Project No. F-076-1 (1)
Scale: As Shown Date: May 1985
SHEET No. 12 OF 3 SHEETS

ADD. 92R



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-076-1(1)	1986	93	121



ELEVATION DETAILS OF EXISTING 30" FORCE MAIN AND NEW 30" SIPHON AT STA. 268+64.5

Scale: 1" = 1'-0"

NOTE: The cost of the bed course material and premolded joint filler shall be incidental to the various contract items.

APPROVED:

J. L. L... 9/27/85
CHIEF, DIV. OF WASTEWATER MANAGEMENT DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
IRRIGATION DETAILS
30 INCH SIPHON PIPE
FORT WEAVER ROAD RENTON ROAD TO HANAKAHI STREET F.A.R. PROJECT NO. F-076-1(1)
SCALE: AS SHOWN DATE: MAY 1985
SHEET No. 13 OF 3 SHEETS