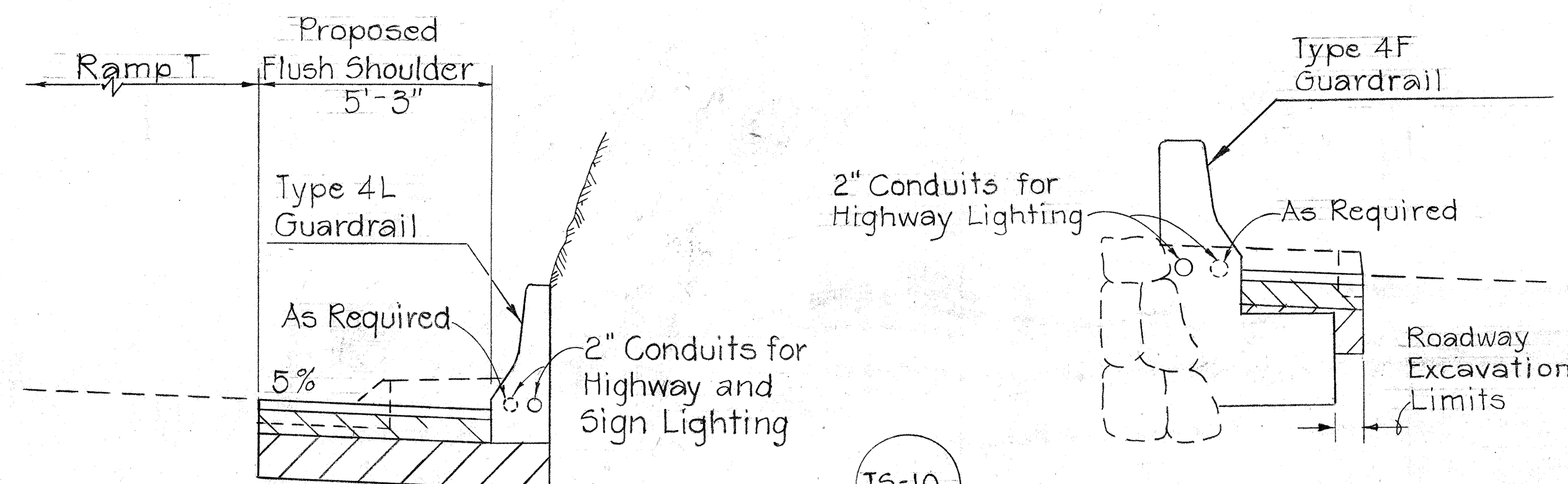
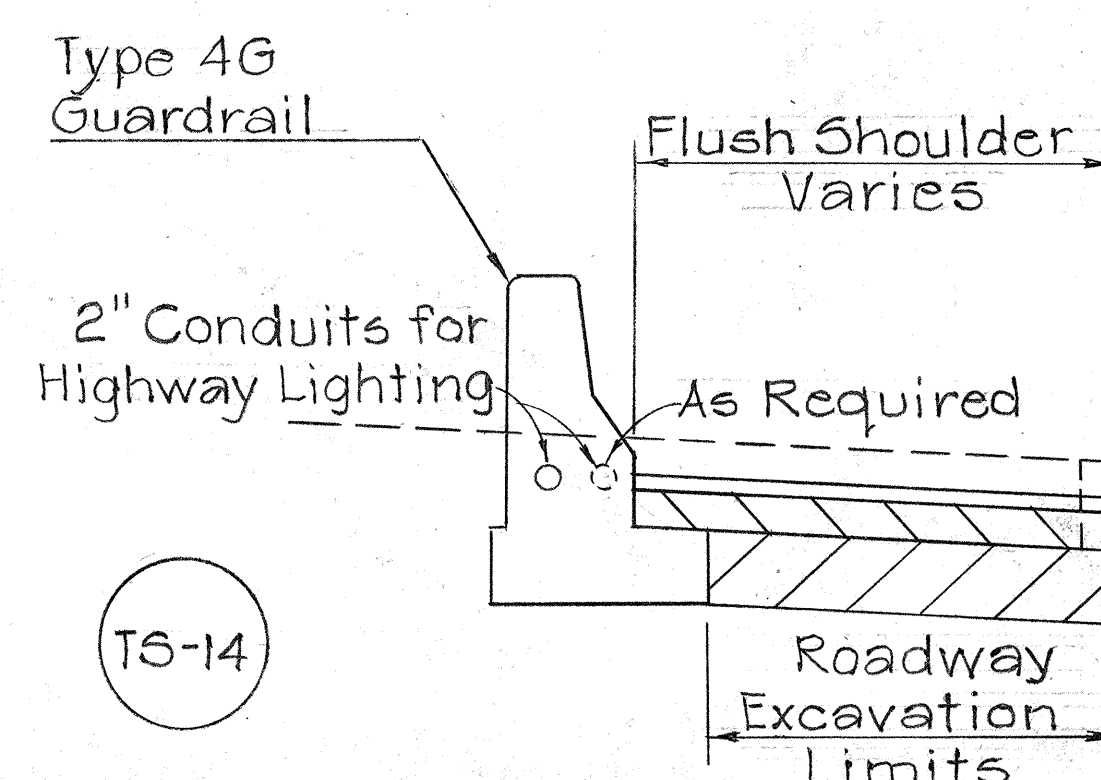


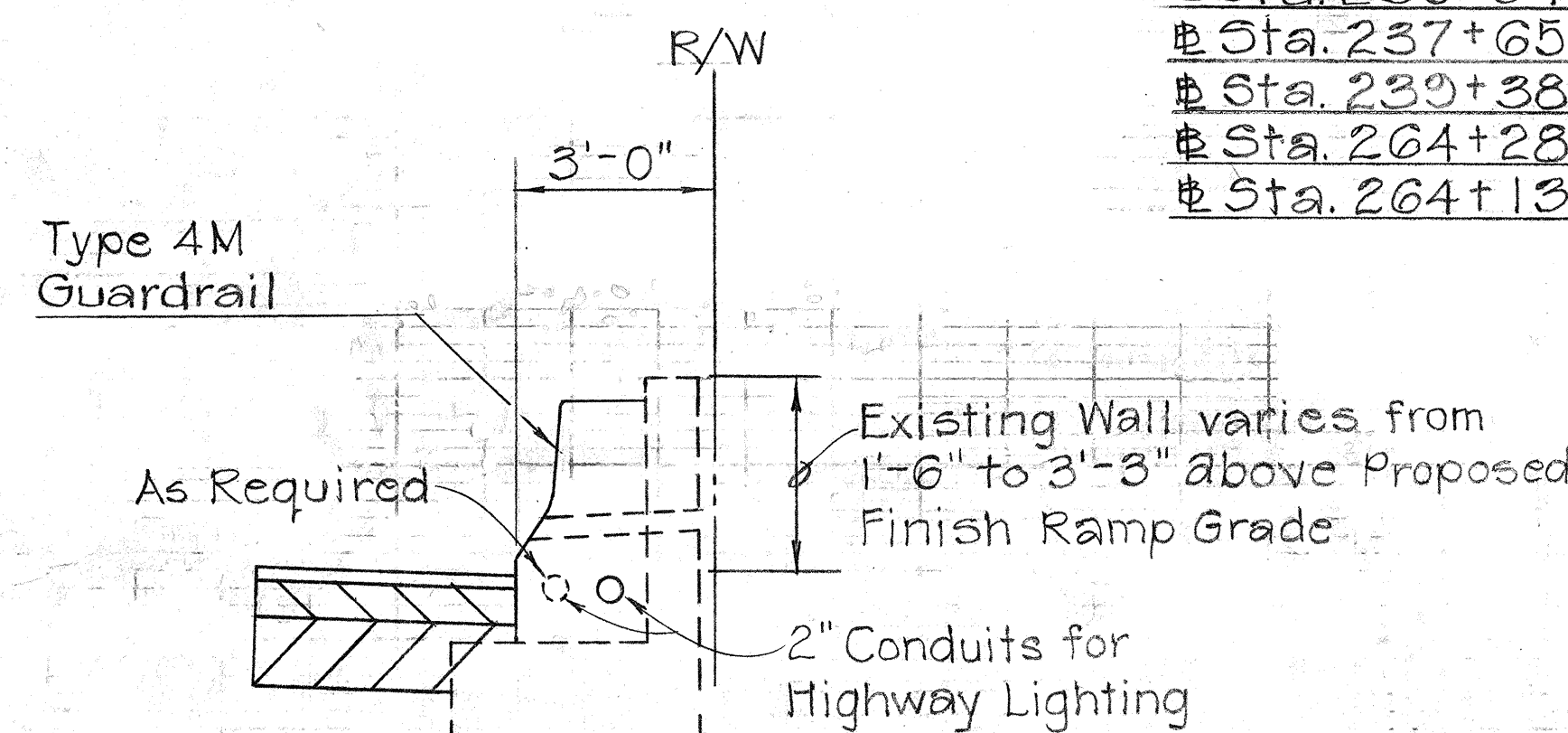
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(60):23	1976	170	181



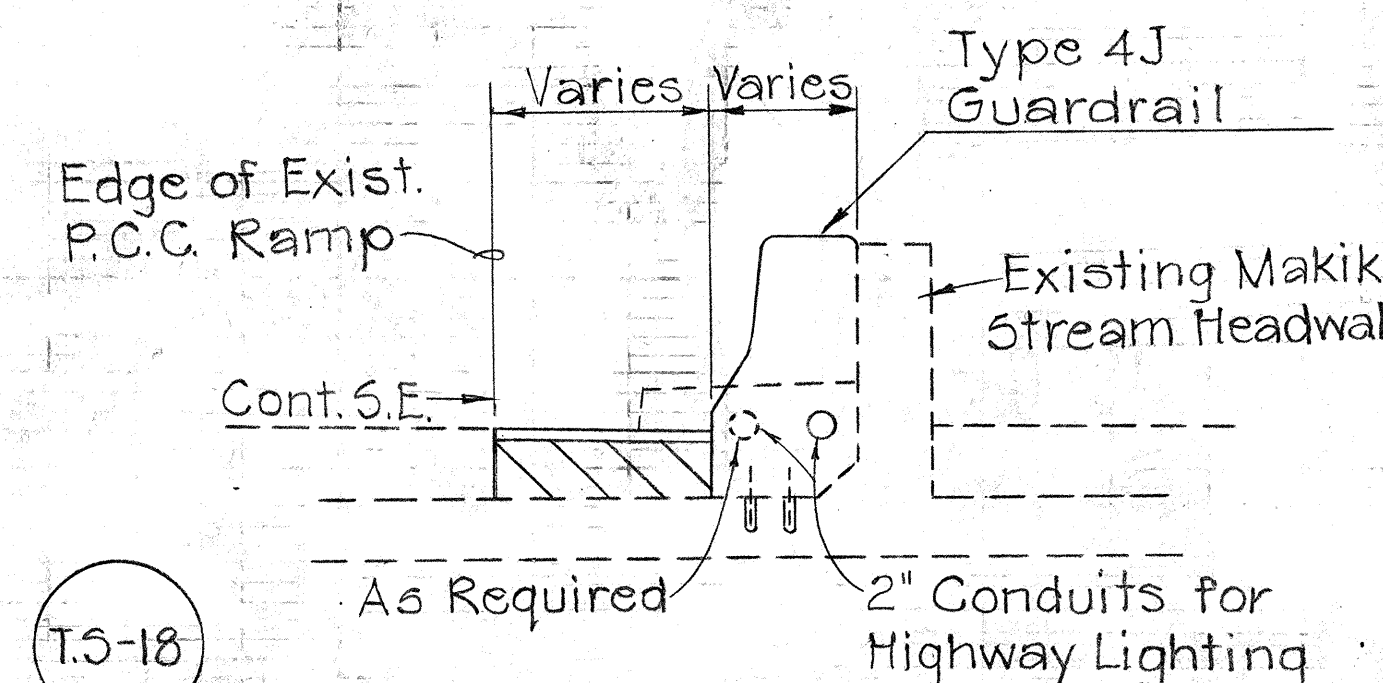
TS-13
RAMP "T-1" Sta. 5+58± to Sta. 9+43± E.B.



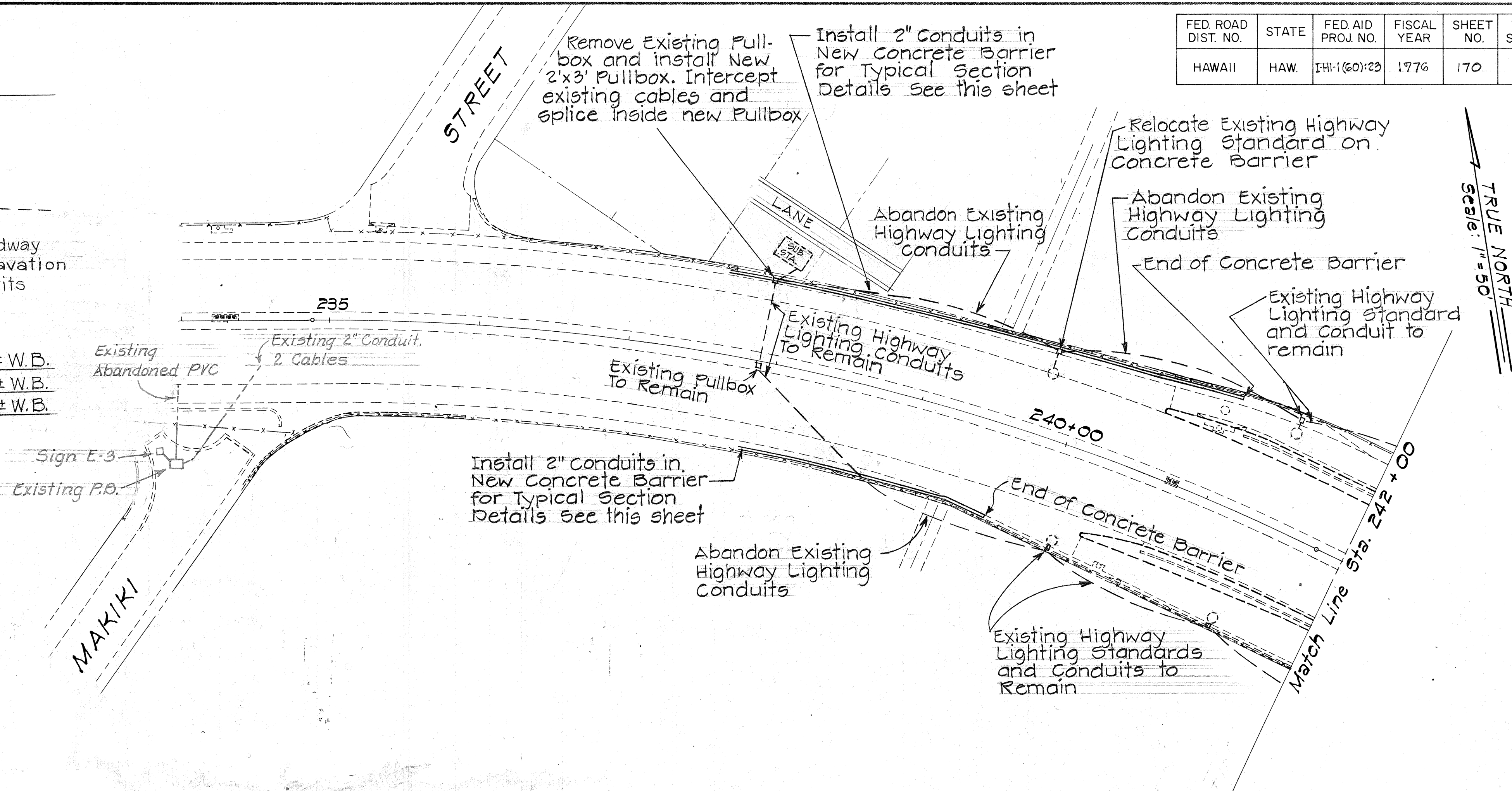
TS-14
Sta. 235+94± to Sta. 238+56± E.B.
Sta. 237+65± to Sta. 239+27± W.B.
Sta. 239+38± to Sta. 239+65± E.B.
Sta. 264+28± to Sta. 274+60± W.B.
Sta. 264+13± to Sta. 265+36± E.B.



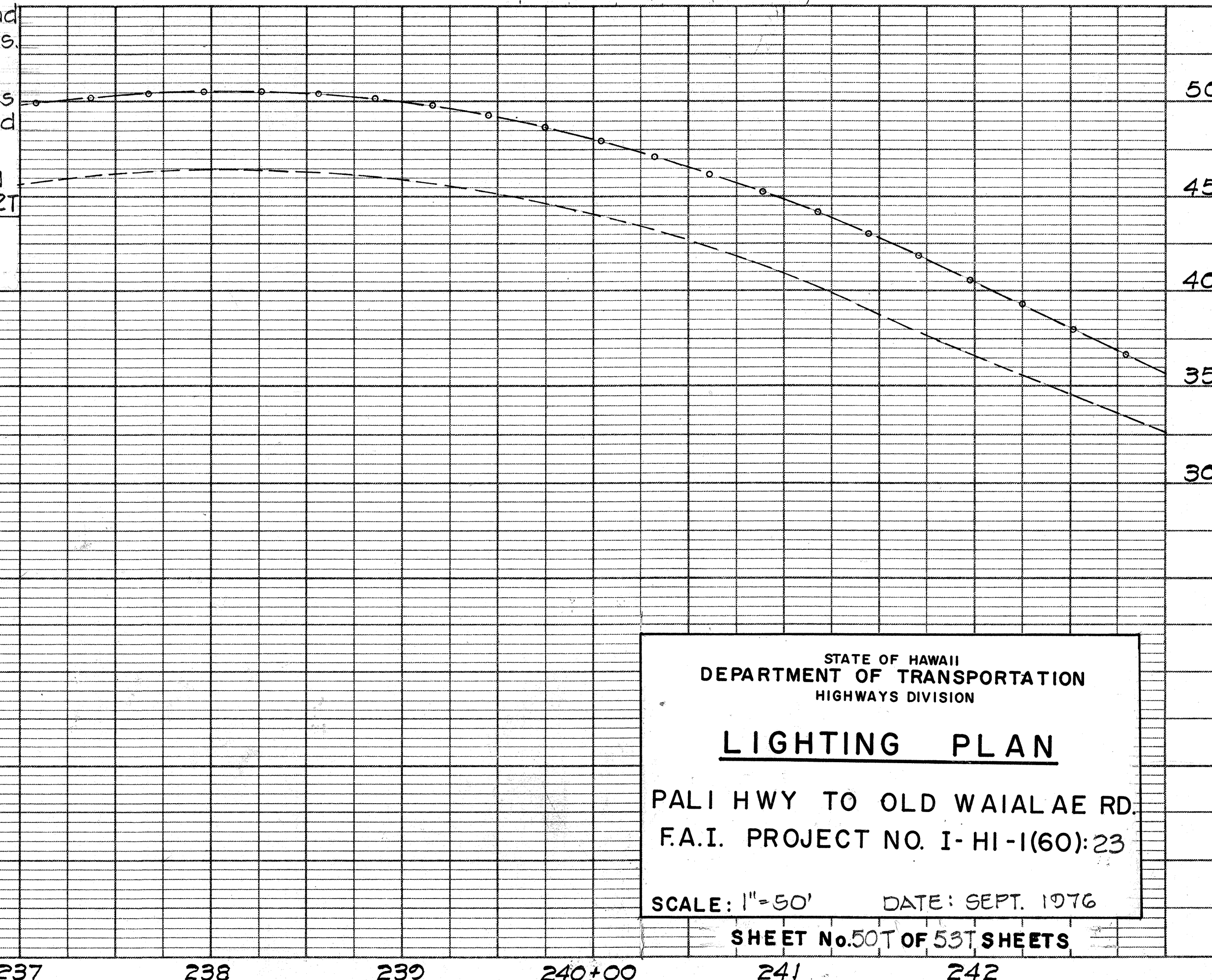
TS-17
Sta. 235+00± to Sta. 235+95± E.B.



TS-18
Sta. 239+11± to Sta. 239+38± E.B.
Sta. 239+27± to Sta. 239+54± W.B.



1. The Contractor shall verify dimension and location of existing equipment and facilities.
2. Conduits shall be galvanized steel or PVC. Plastic conduits except risers into bases and exposed conduits shall be galvanized steel.
3. Expansion fittings shall be installed at all expansion joints. For Detail see Sht. No. 52T

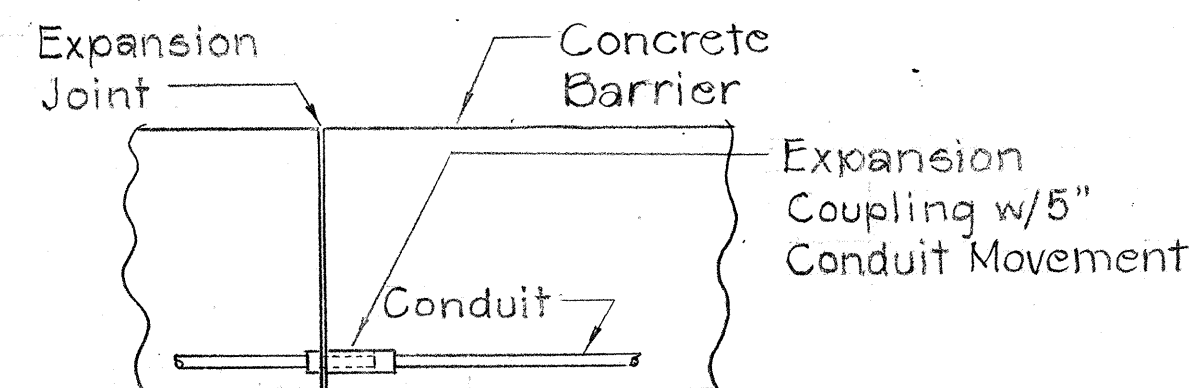
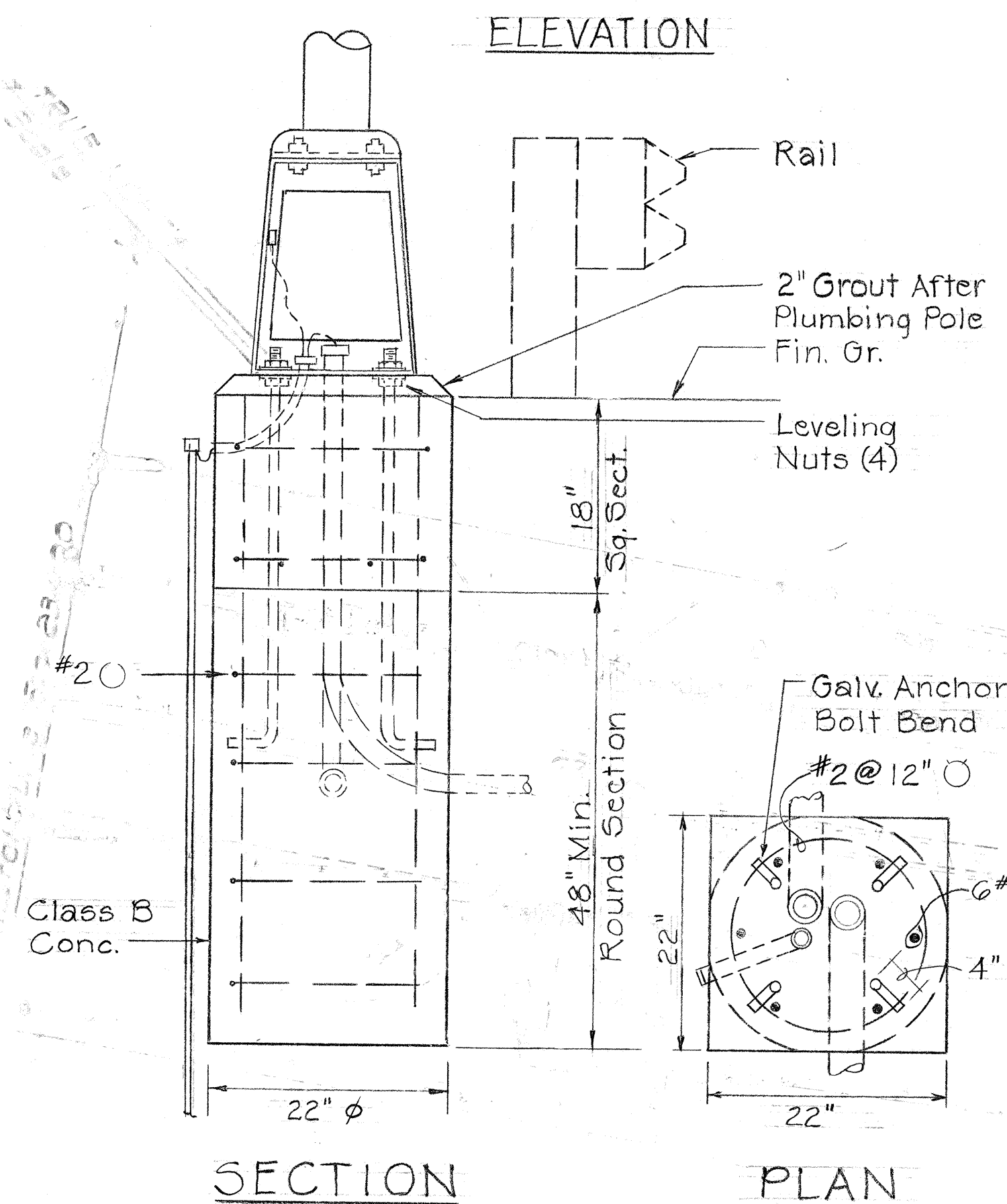


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LIGHTING PLAN
PALI HWY TO OLD WAIALAE RD.
F.A.I. PROJECT NO. I-HI-1(60):23
SCALE: 1"=50' DATE: SEPT. 1976
SHEET No. 50 OF 53 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(60)-23	1976	172	181

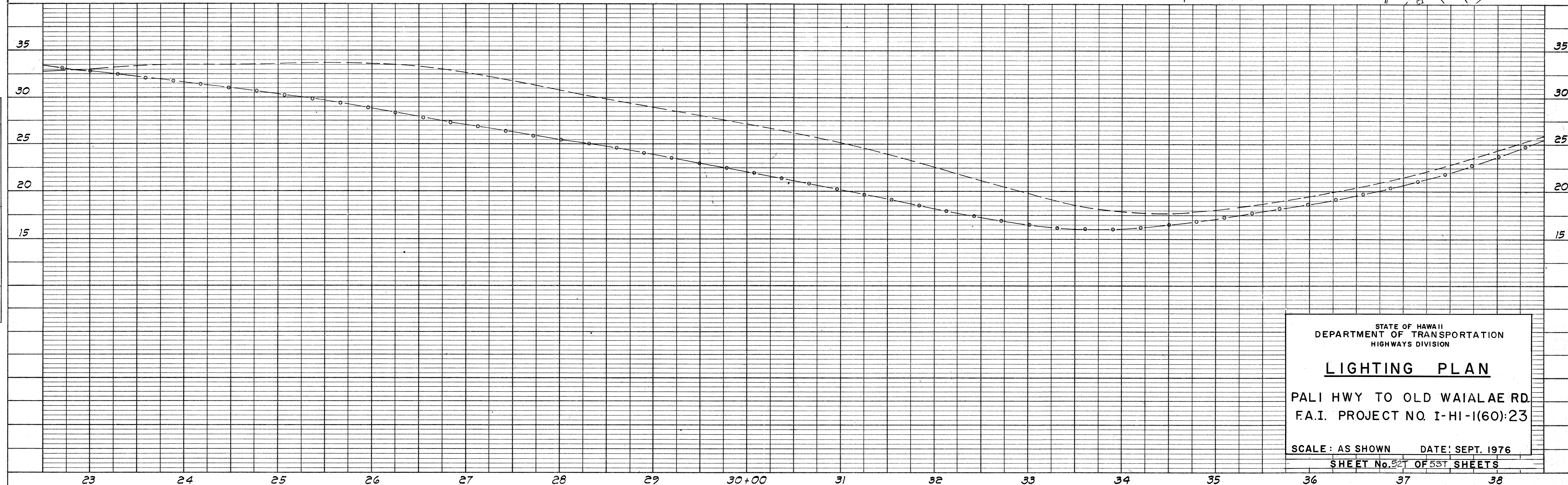
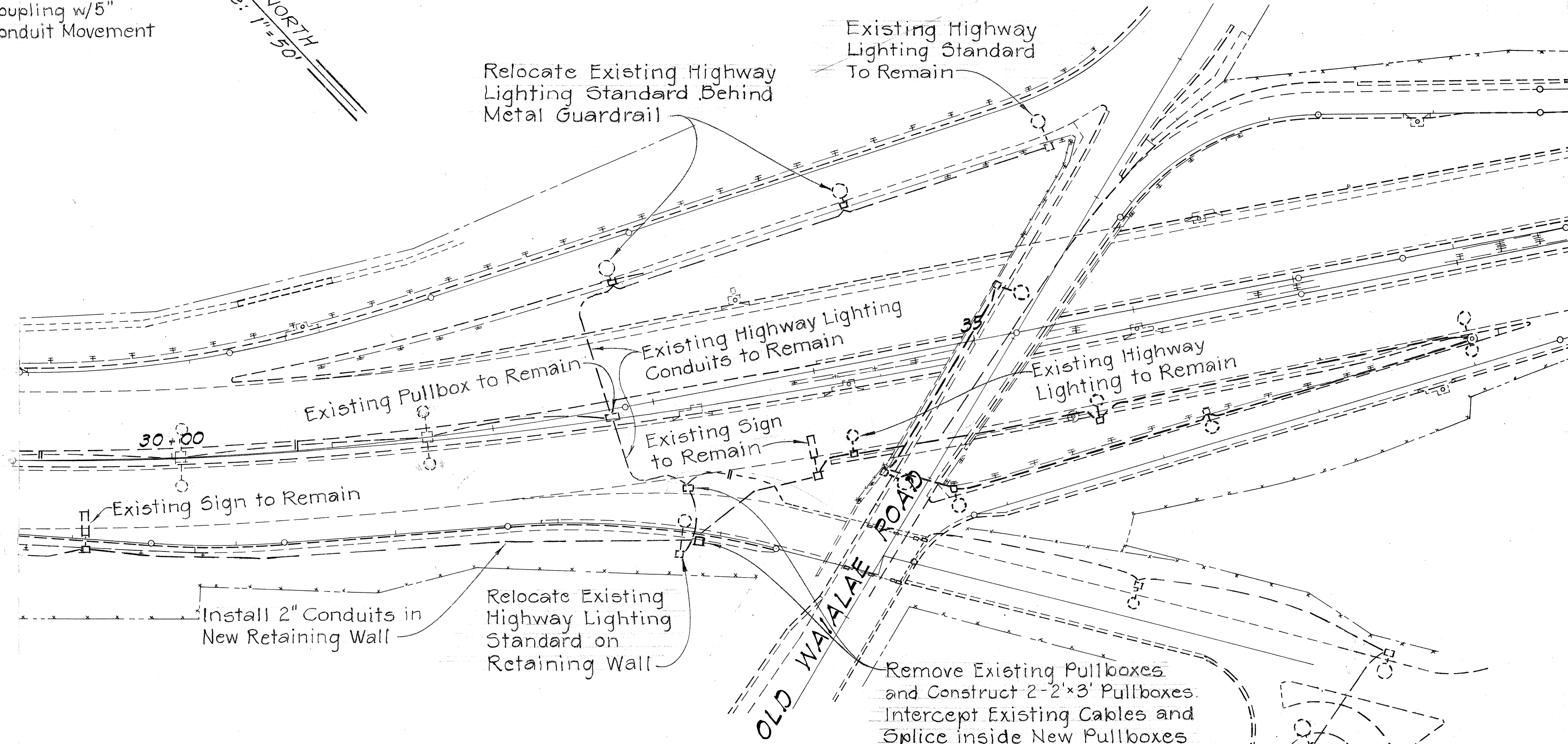
PLAN	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NO.		



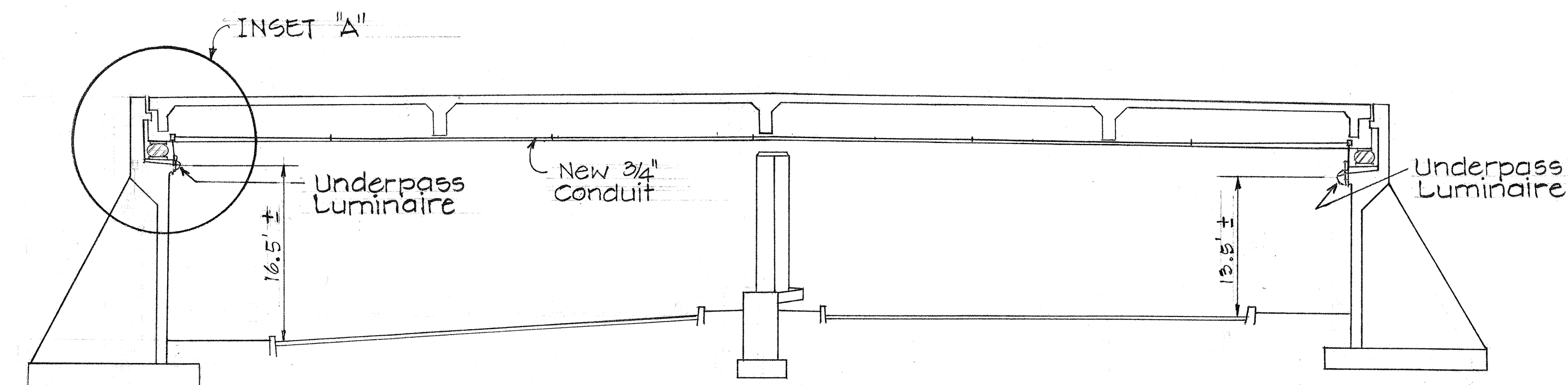
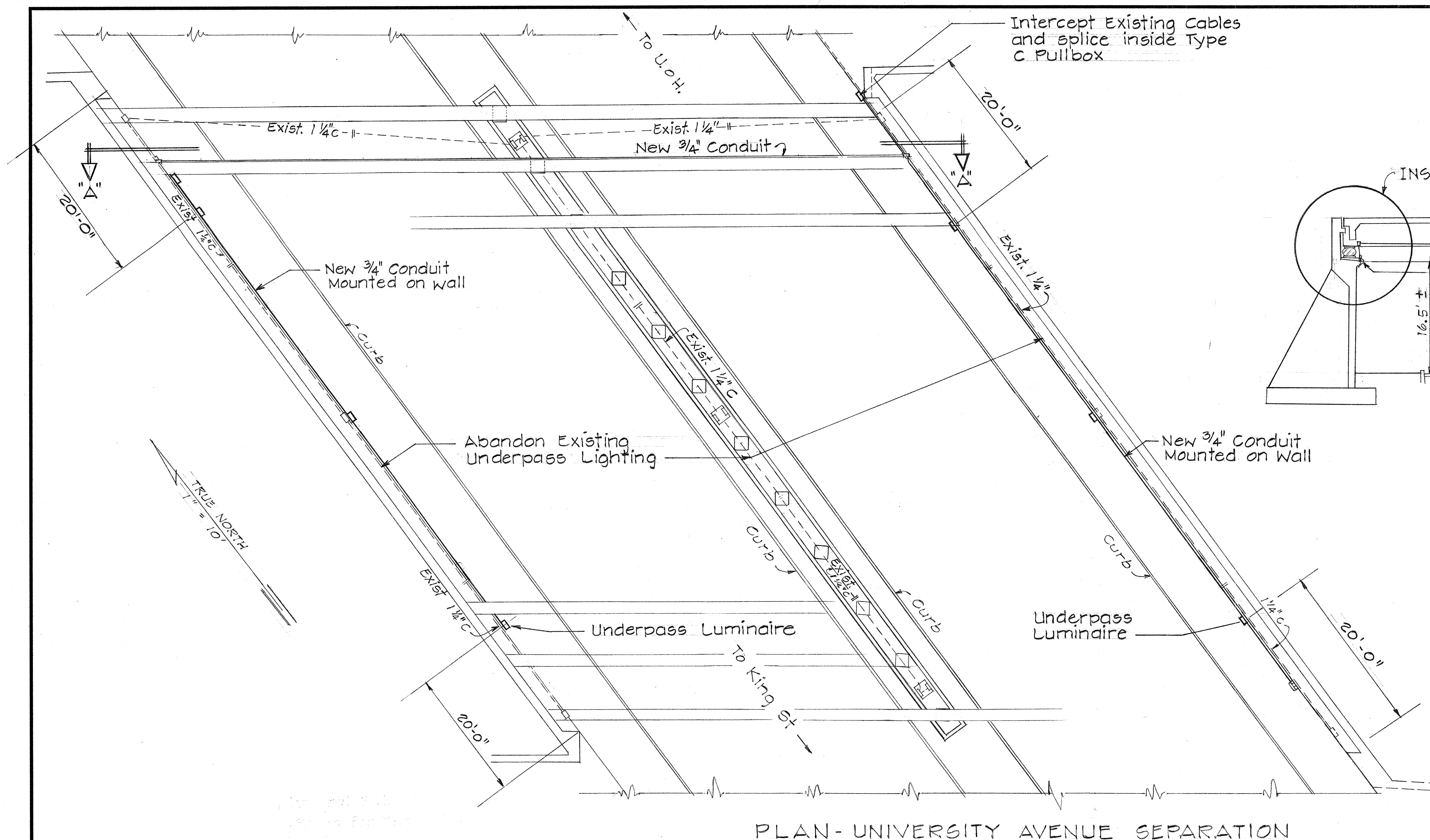
TYPICAL EXPANSION COUPLING DETAIL
N.T.S.
(Shown at Retaining Wall. Similar for Abutments and Bearing Expansion Joint on Suspended Ramp. Provide Expansion Couplings for all Expansion Joints.)

HIGHWAY LIGHTING STANDARD DETAIL
Scale: 1"=1'-0"

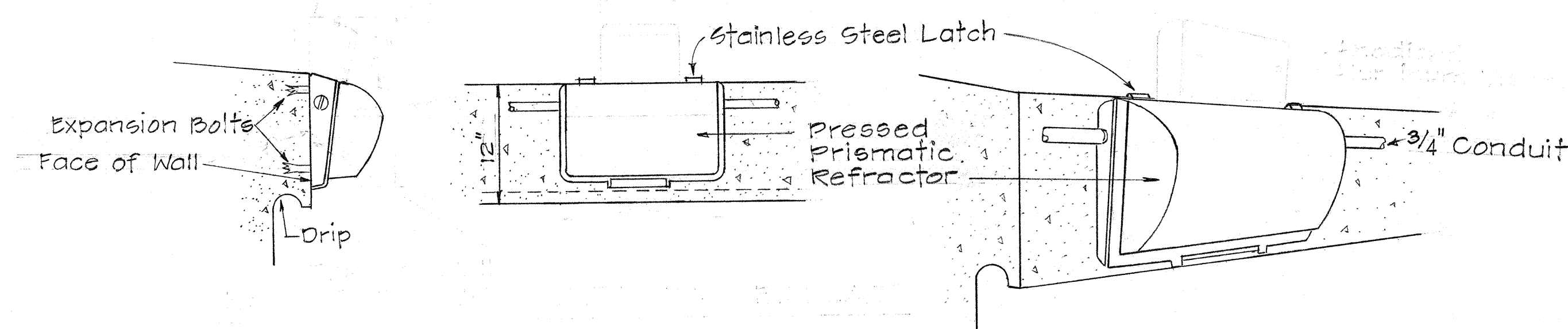
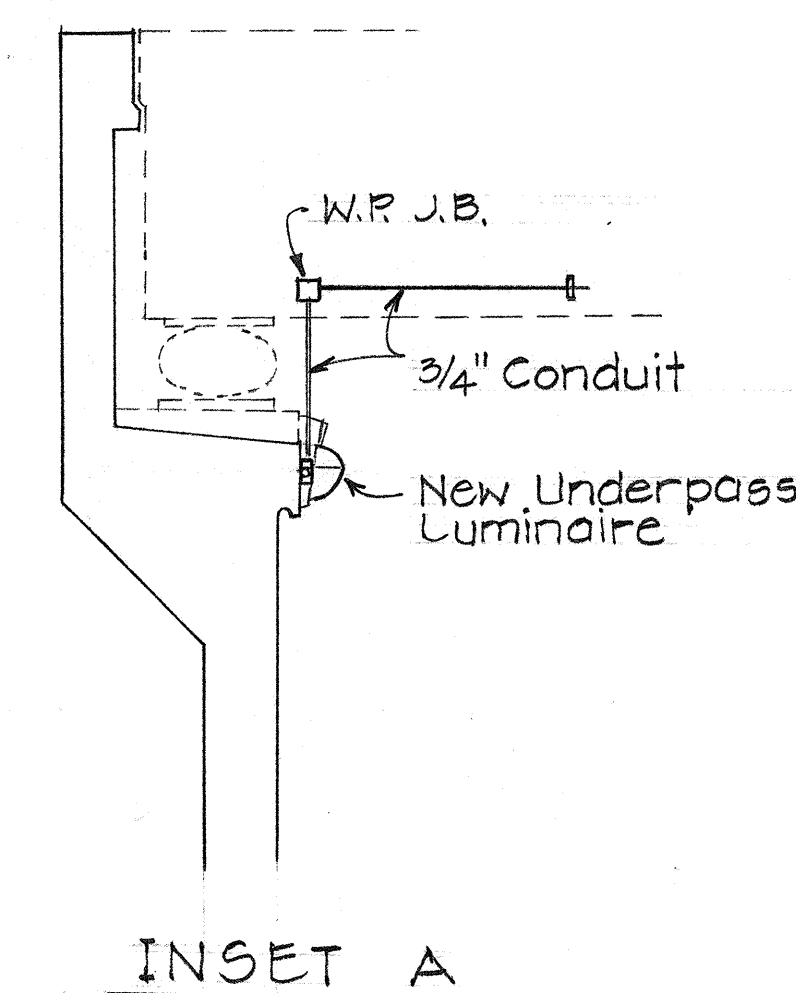


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LIGHTING PLAN
PALI HWY TO OLD WAI'ALAE RD.
F.A.I. PROJECT NO. I-HI-(60)-23
SCALE: AS SHOWN DATE: SEPT. 1976
SHEET No. 172 OF 531 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(60):23	1976	173	181

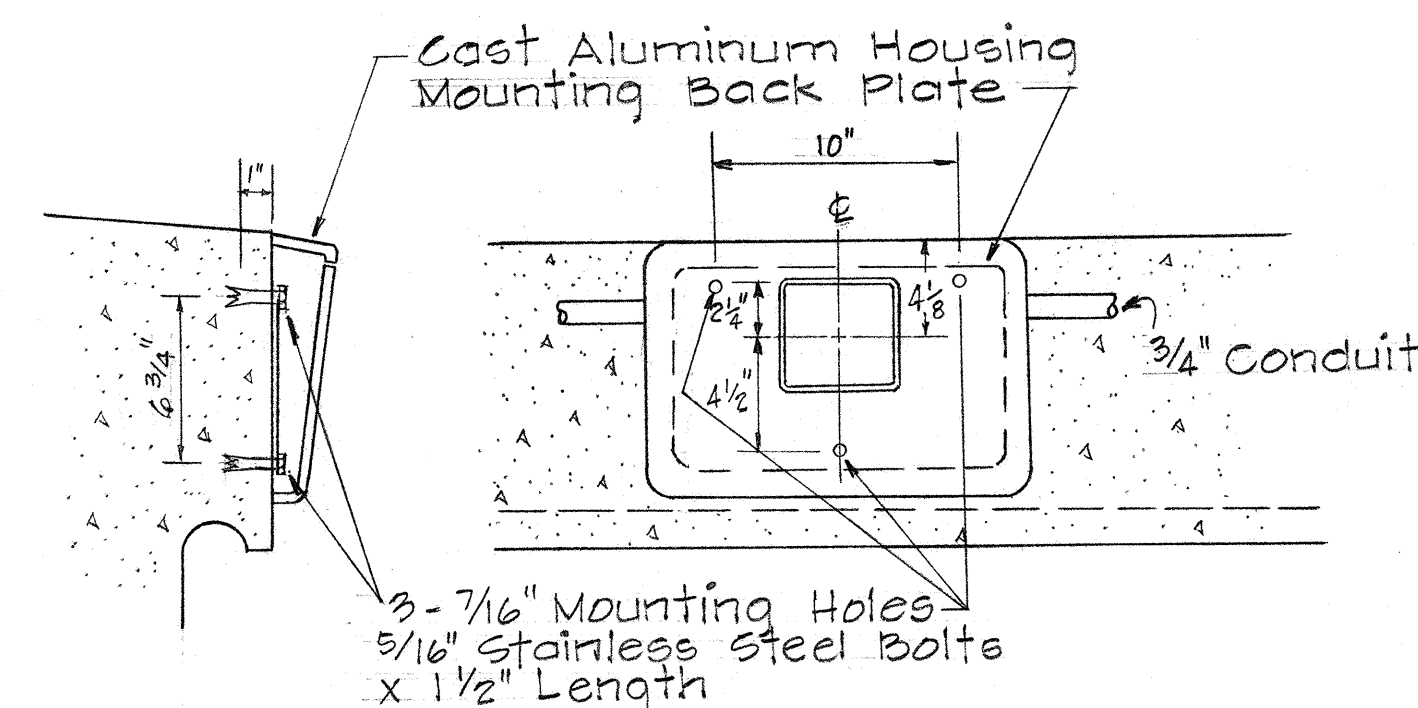


SECTION "A-A"
LUMINAIRE, STEEL GALV. CONDUIT, W.P. J.B.
PANEL BOARD AT UNIVERSITY AVE



NOTE:

Remove Existing 277 Volt Ballasts and Replace w/120 Volt Ballast for Underpass & Expressway Sign, Pg. 171.

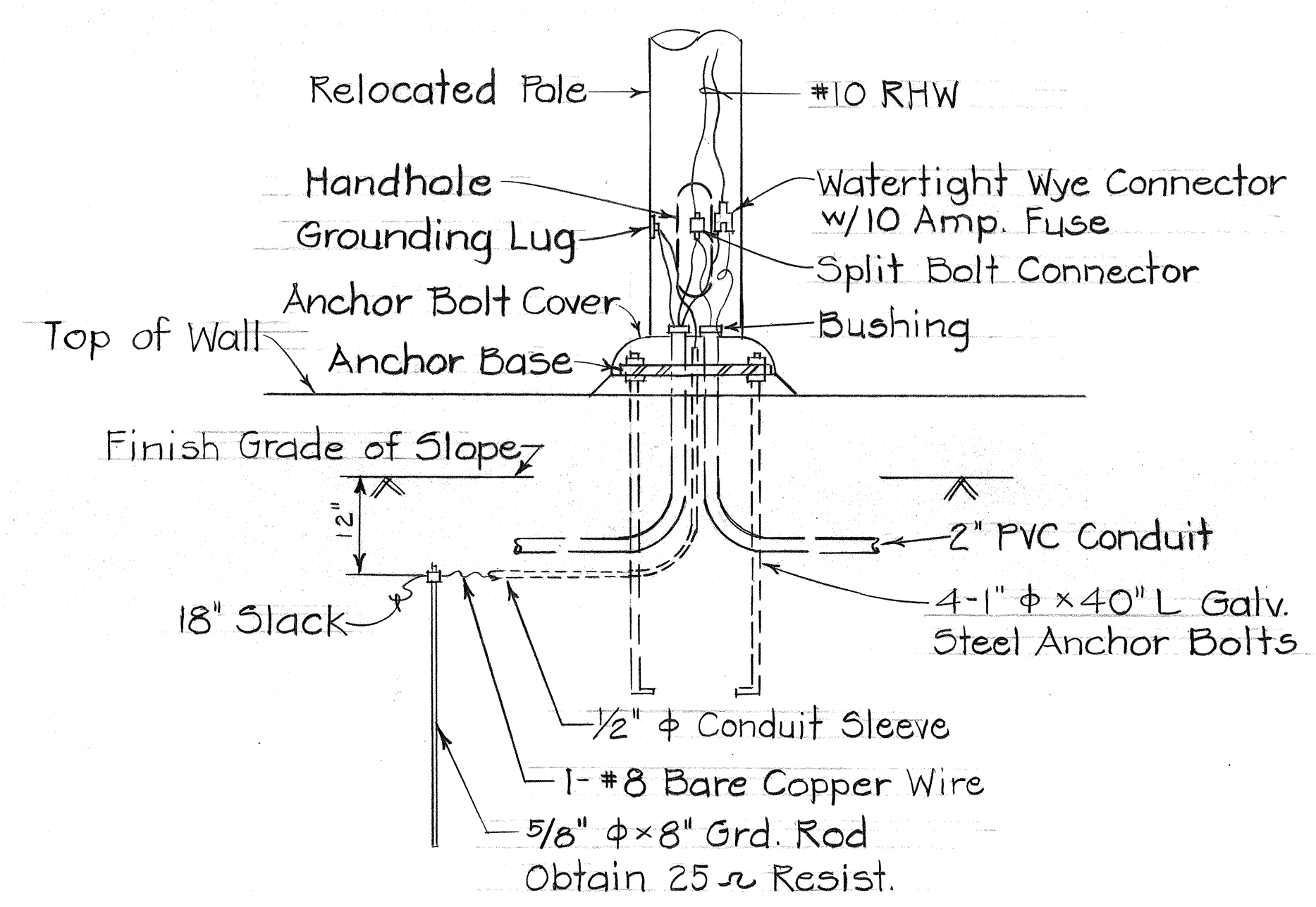


UNDERPASS LUMINAIRE, MERCURY VAPOR
Not to Scale

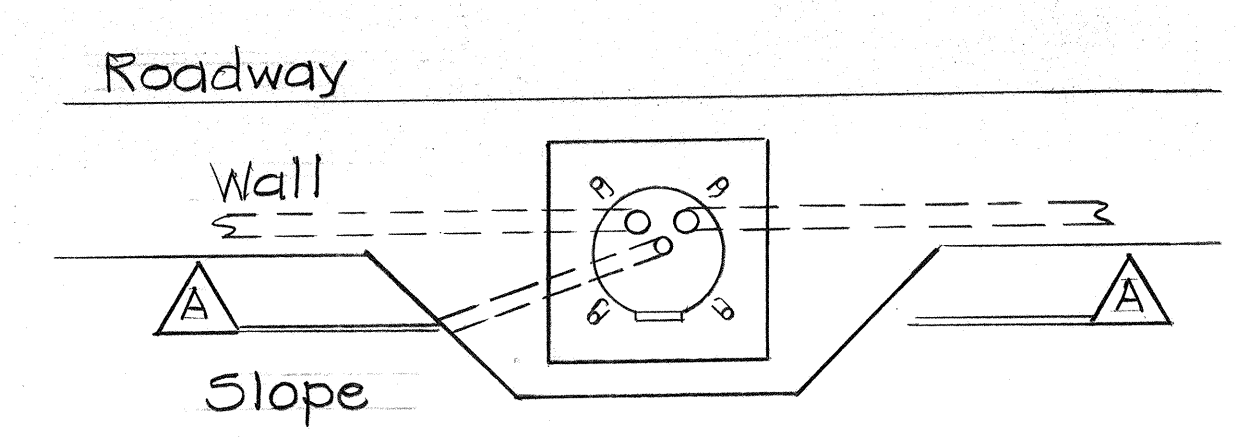
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LIGHTING PLAN	
PALI HWY TO OLD WAIALAE RD	
F.A.I. PROJECT NO. I-HI-1(60):23	
SCALE: As Noted	Date: Sept. 1976
SHEET No. 53 OF 53 SHEETS	

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(60)23	1978	C01352	181

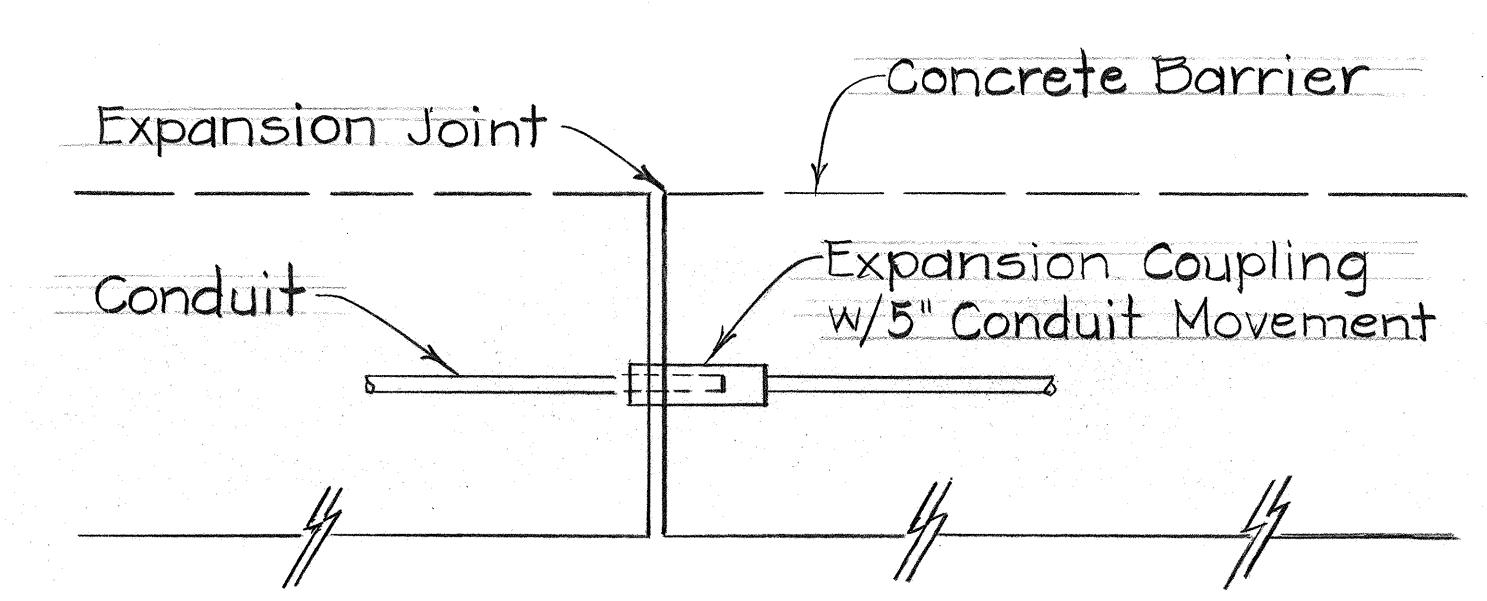


SECTION A-A



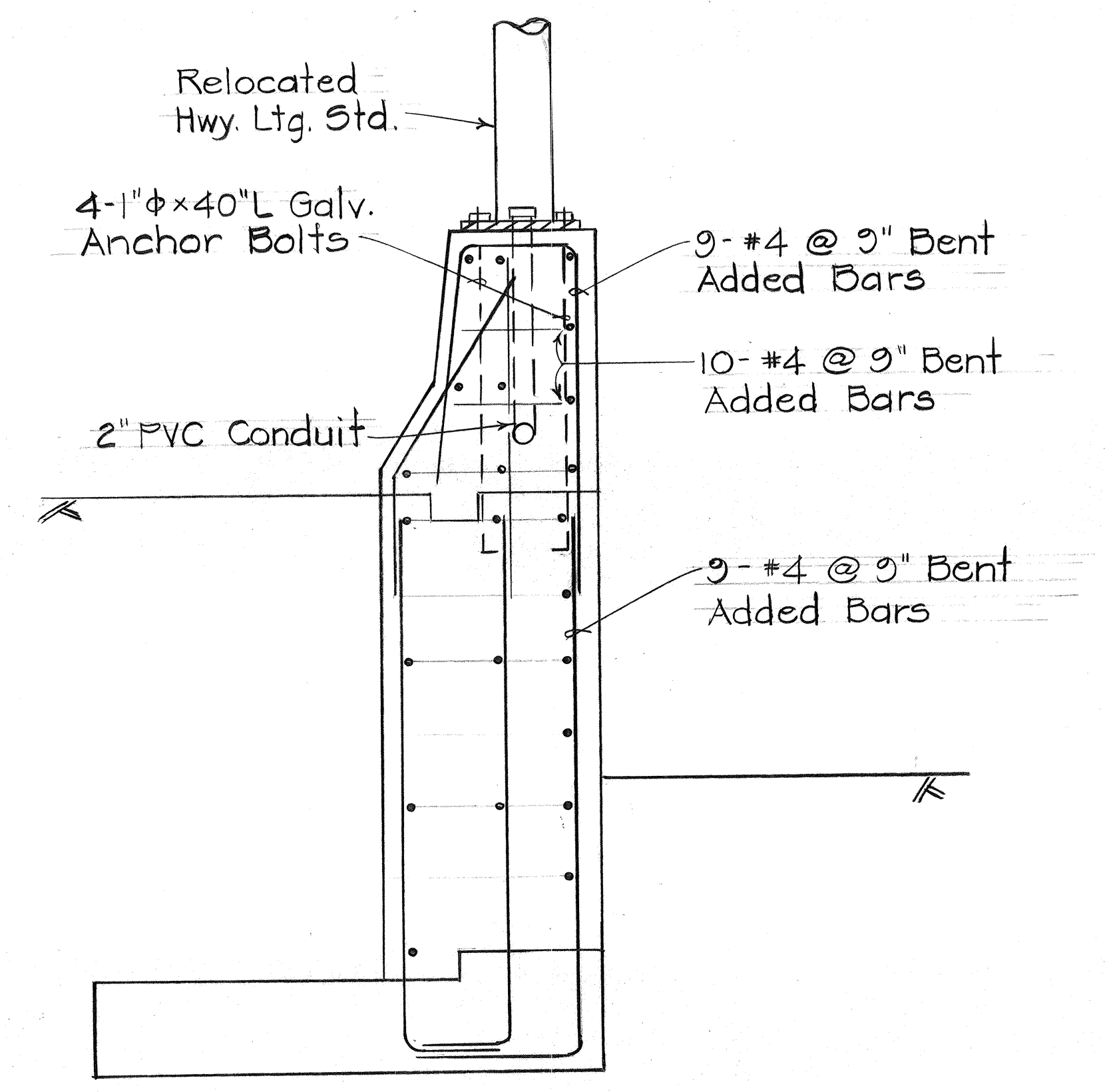
PLAN

TYPICAL HWY. LTG. ANCHOR BASE DETAILS

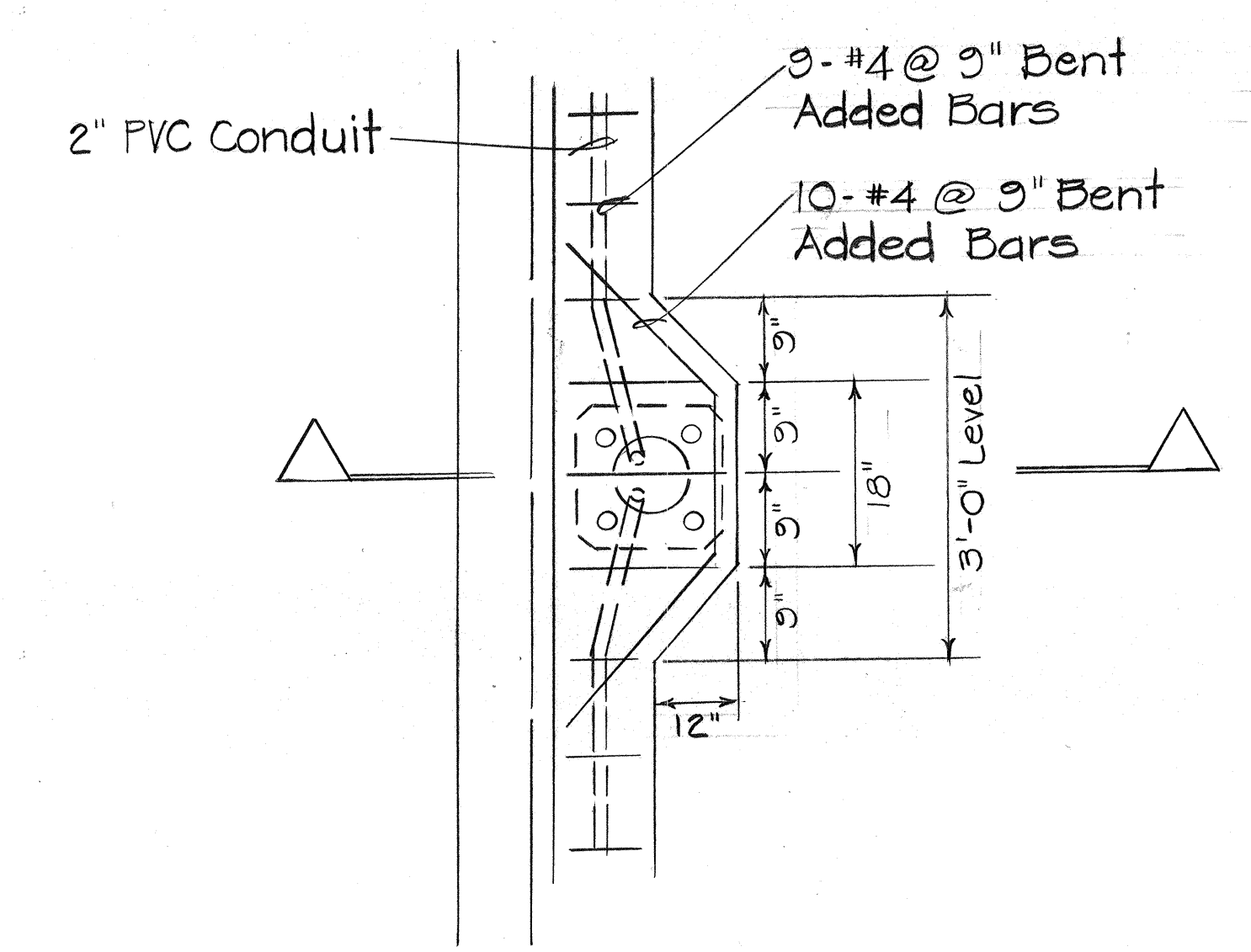


ELEVATION

TYPICAL EXPANSION COUPLING DETAIL



SECTION



PLAN

TYPICAL LIGHT STANDARD ON GUARD RAIL TYPE 4E

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

LIGHTING DETAILS

PAU HIGHWAY TO OLD WAIALAE RD.
F.A.I. PROJ. NO. I-HI-1(60)23

Not to Scale Date: Dec. 1977
SHEET NO. 1A OF 8 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	