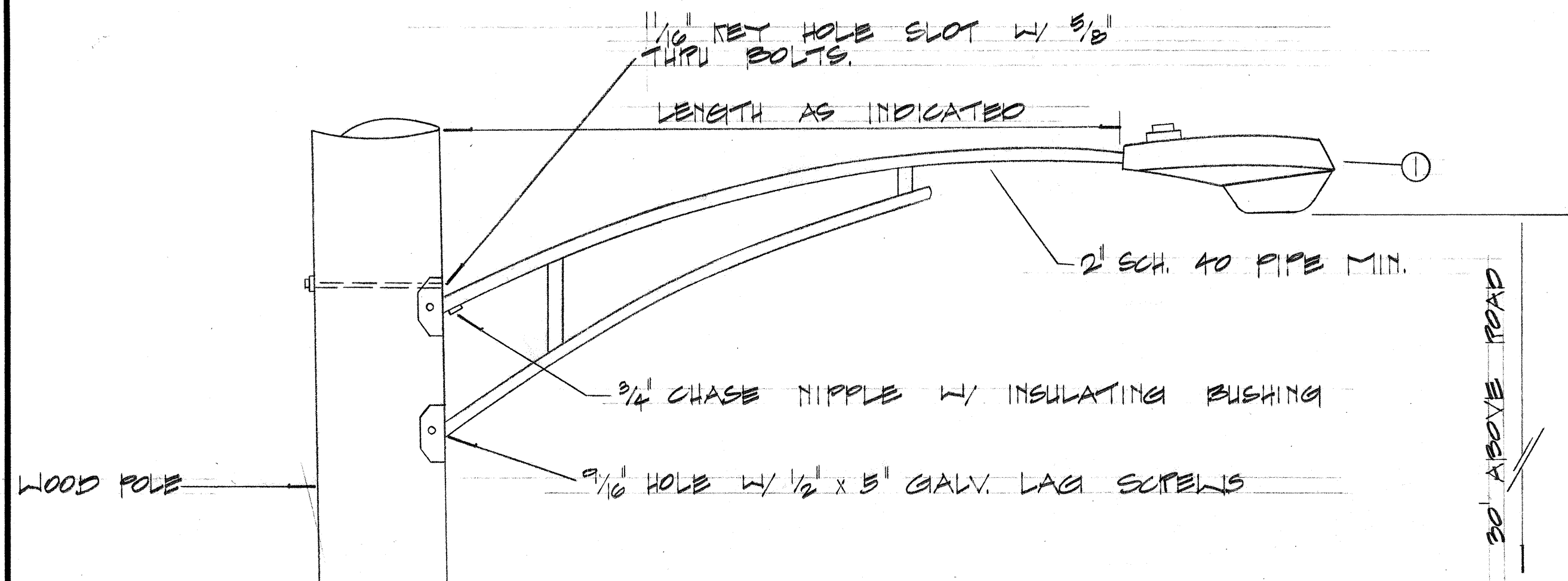


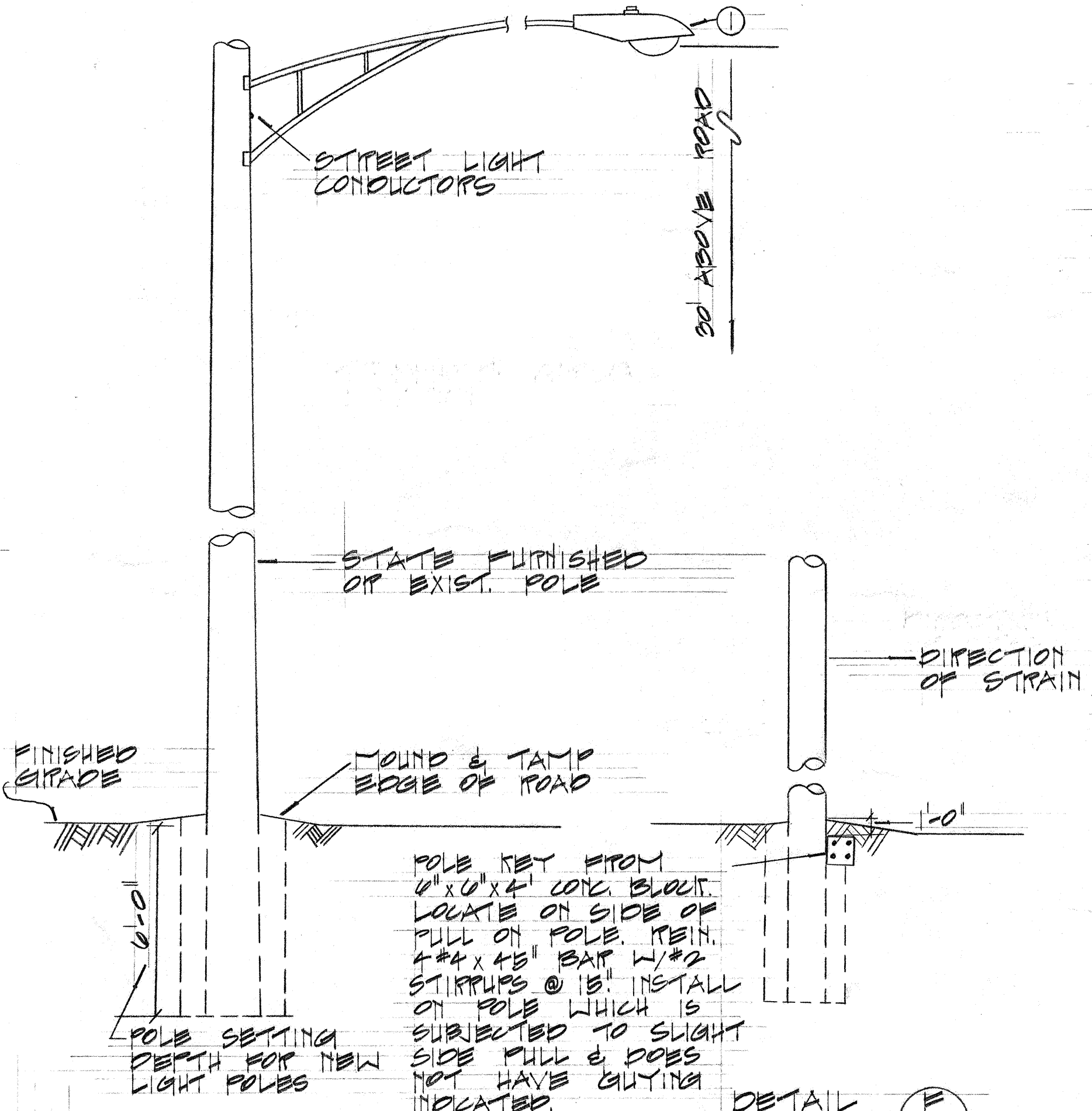
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	90CD-03-73	1973	1	2



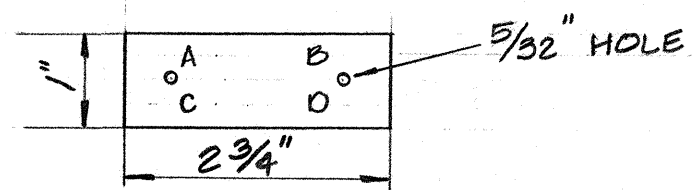
DETAIL A
NTS

- LEGEND**
- EXISTING ELECTRIC POLE
 - NEW MULTIPLE 400 WATT MERCURY VAPOR STREET LIGHT LUMINAIRE, BRACKET MOUNTED ON EXISTING POLE
 - NEW MULTIPLE 400 WATT MERCURY VAPOR STREET LIGHT LUMINAIRE BRACKET MOUNTED ON STATE FURNISHED POLE
 - NEW OVERHEAD SECONDARY
 - NEW GUY & ANCHOR
 - EXISTING NAVT ELECTRICAL DUTLINES
 - EXISTING 12" NAVT SEWER LINE
 - EXISTING SPRINKLER SYSTEM DUTLINES

Scale: 1" = 50'



DETAIL E
NTS



DETAIL F
NTS

- LEGEND:**
- A = CONTRACT NUMBER - 501
 - B = LIGHT NUMBER (SEE PLAN)
 - C = LAMP DATA - H400
 - D = REFRACTOR DATA: TYPE NO. III

- NOTES:**
- TAG - MAKE FROM PLASTIC SHEET (GRAVOPLEX/3PLY) LAMINATED BLACK-WHITE-BLACK.
 - MOUNTING HEIGHT OF TAG - 6'-0" FROM FIN. GRADE.
 - LETTERS - NO. 5 REDUCTION, 1/8", STENCILLED.
 - ATTACH TO WOOD POLE WITH 4D NAILS

DETAIL B
NTS

NOTE:
ALL CHANGES MADE DURING CONSTRUCTION HAVE BEEN NOTED IN RED ON THIS TRACING AND CHECKED BY:

David S. Hishigata
PROJECT ENGINEER
8-12-75
DATE

1-7-74	ADD POLE NUMBERS & DETAIL B
DATE	REVISION

DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII
APPROVED:
Murray Lee
FOR DIR. OF TRANSPORTATION
8/3/73
DATE

ITEM NO.	DESCRIPTION
1	LUMINAIRE, MERCURY 400 WATT TYPE II W/ PHOTO-ELECTRIC CONTROL AND MAST ARM.
2	CONDUIT, 3/4" PVC SCHEDULE 80.
3	IN LINE FUSE HOLDER W/ 10A FUSE.
4	WIRE, NO 10 AWG STRANDED COPPER, TYPE RWL BLACK.
5	WIRE NO 10 AWG STRANDED COPPER, TYPE RWL WHITE.
6	IN LINE UNFUSED, INSULATED SEPARABLE CONNECTOR.
7	WIRE NO 8 AWG 1-STAND ALUMINUM, TYPE RWL.
8	THIMBLE, CLEVIS, ALUMINUM ALLOY W/ ALUMINUM ALLOY EYELET.
9	WIRES 2 NO 6 CROSS-LINKED POLYETHYLENE ALUM. W/ NEUTRAL MESSENGER.
10	PERFORMED GUY GRIP.
11	GUY WIRE, 3/8" EHS, GALV.
12	ANCHOR GUY, HOOK W/ 3/4" DIA. THRU BOLT & 2-1/4" SR WASHER.
13	MESSENGER HANGER, CAST ALUMINUM W/ 3/8" ALUM. ALLOY THRU BOLT & 2-1/4" ALUM. ALLOY SR WASHER.
14	ALUMINUM SHEET WRAP (AROUND MESSENGER).
15	5/8" ALUM. ALLOY THRU BOLT W/ 2-1/2" SR ALUM. ALLOY CURVED WASHER, LENGTH AS REQUIRED.
16	ALUM. ALLOY PERFORMED DEADEND.
17	ANCHOR ROD, 3/8" x 8' GALV.
18	CONCRETE DEADMAN 18" DIA. W/ GALV. SR WASHER.
19	GUY WIRE GUARD, GALV.
20	INSULATOR, PORCELAIN.
21	LAG SCREW

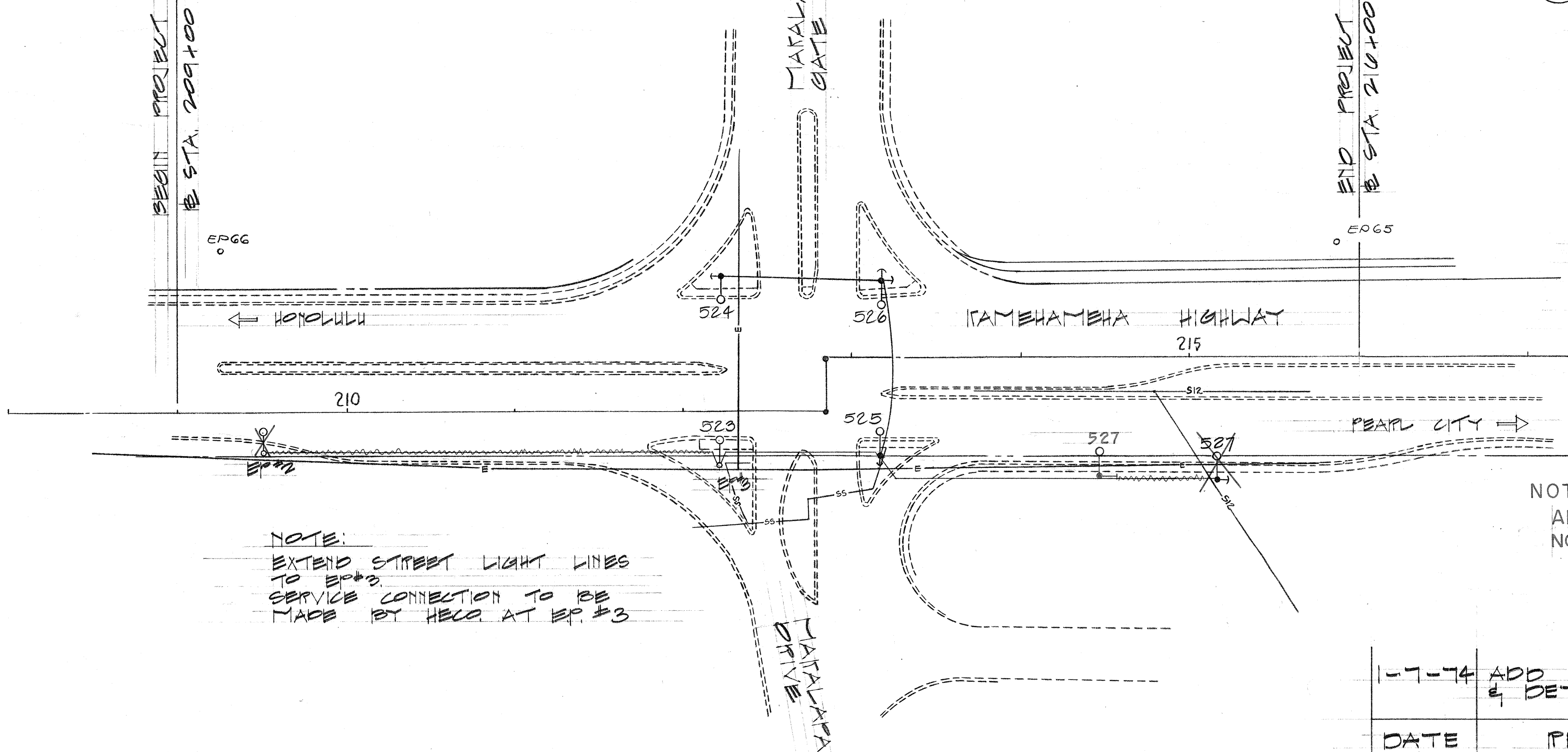
- NOTES:**
- ALL HARDWARE, UNLESS INDICATED AS ALUMINUM OR ALUMINUM ALLOY, SHALL BE HOT DIPPED GALVANIZED STEEL.
 - ALL MAST ARMS SHALL BE 12' IN LENGTH.
 - CONTRACTOR SHALL PICK UP STATE FURNISHED POLES FROM STATE MAINTENANCE YARD UNDER PEARL CITY VIADUCT.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES.

AS-BUILT PLAN

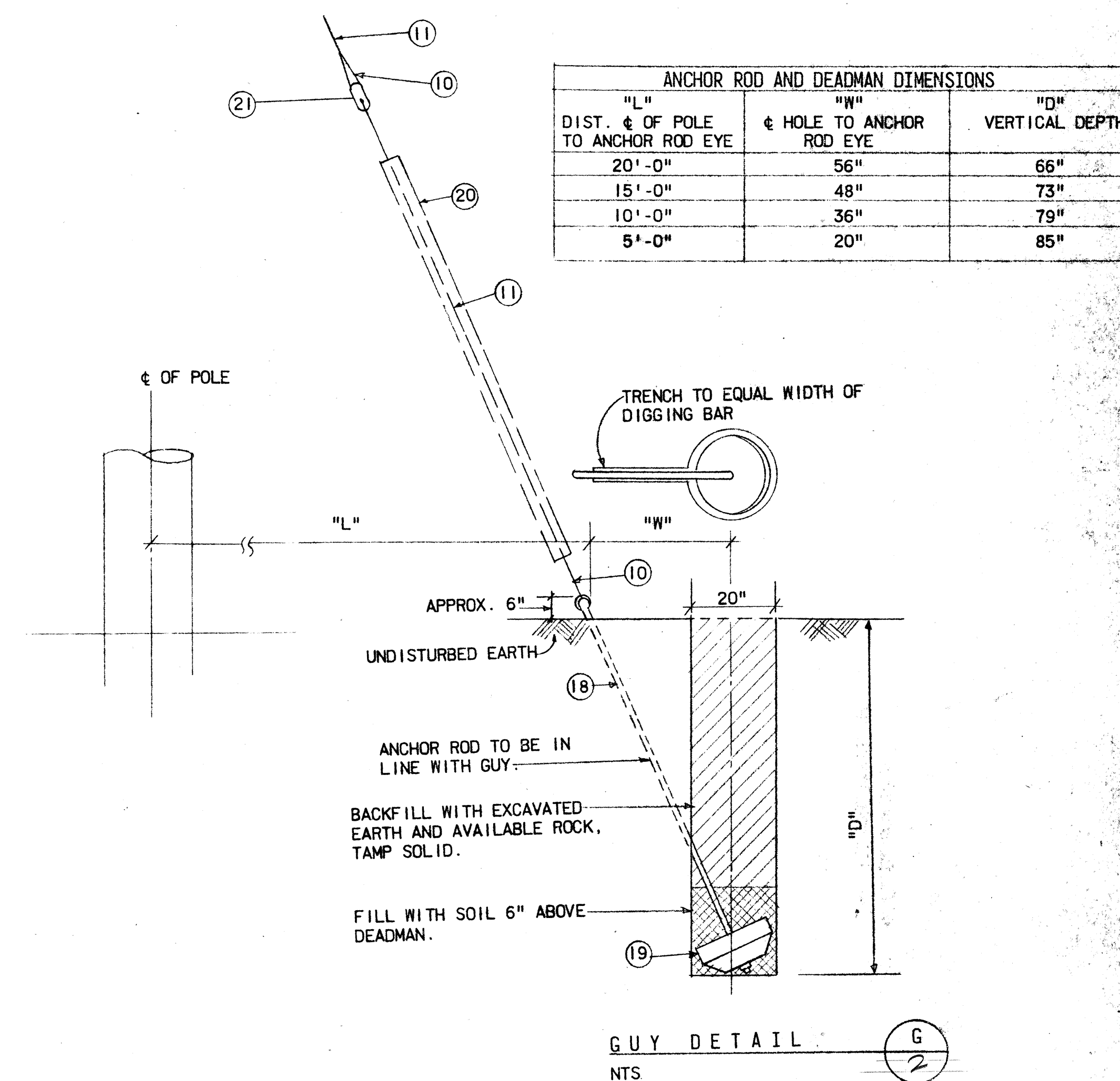
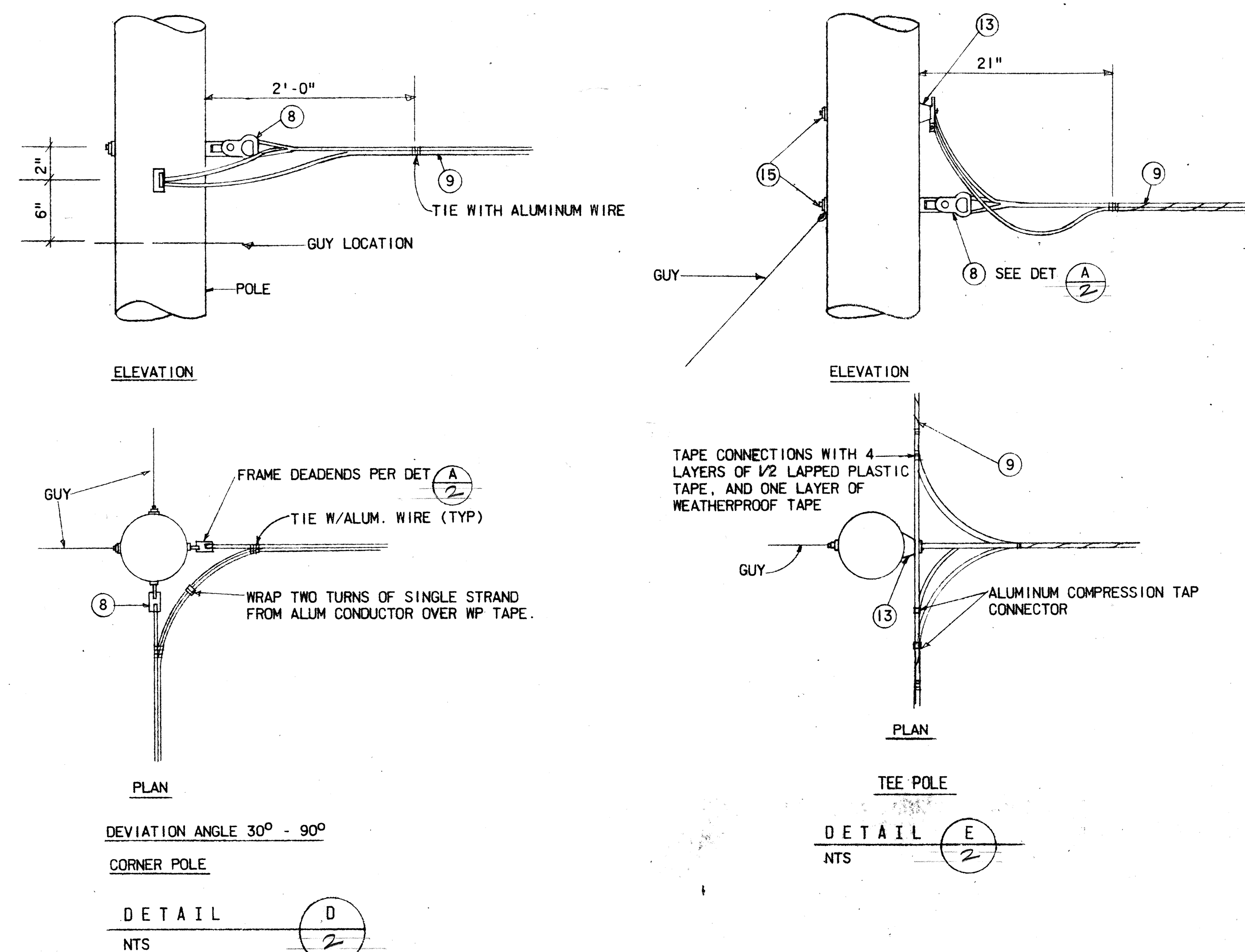
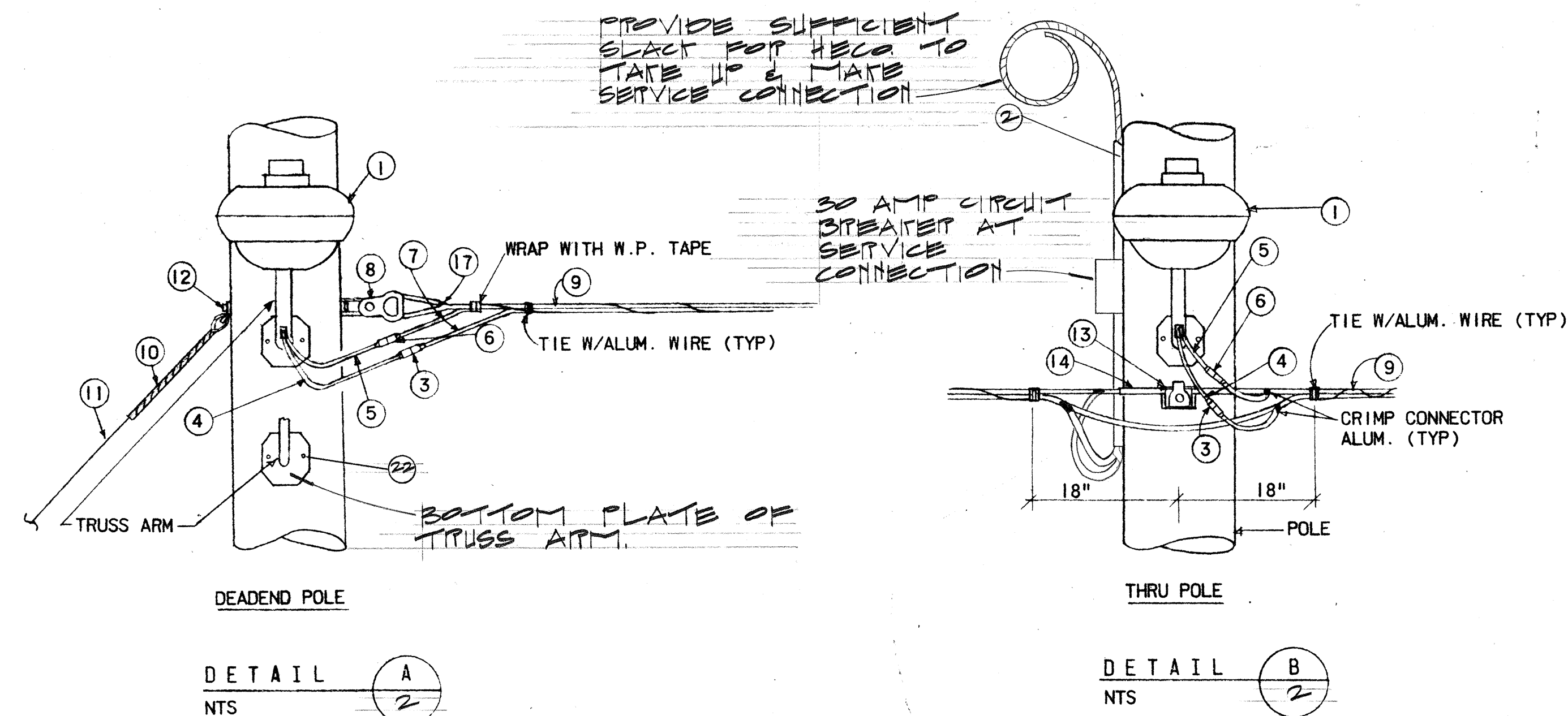
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HAM. HLY. STREET LIGHTS
MAHALAPA GATE
PROJ. NO. 90CD-03-73
SCALE: AS SHOWN
SHEET No. 1 OF 2 SHEETS

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

NOTE:
EXTEND STREET LIGHT LINES TO EP#2
SERVICE CONNECTION TO BE MADE BY HECC AT EP#3



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	90CD-03-73	1973	2	2



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAM. HWY. STREET LIGHTS
MAKALAPA GATE

PROJ. NO. 90CD-03-73

SCALE AS SHOWN

SHEET No. 2 OF 2 SHEETS

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____

ORIGINAL PLAN
NOTE BOOK
NO.