

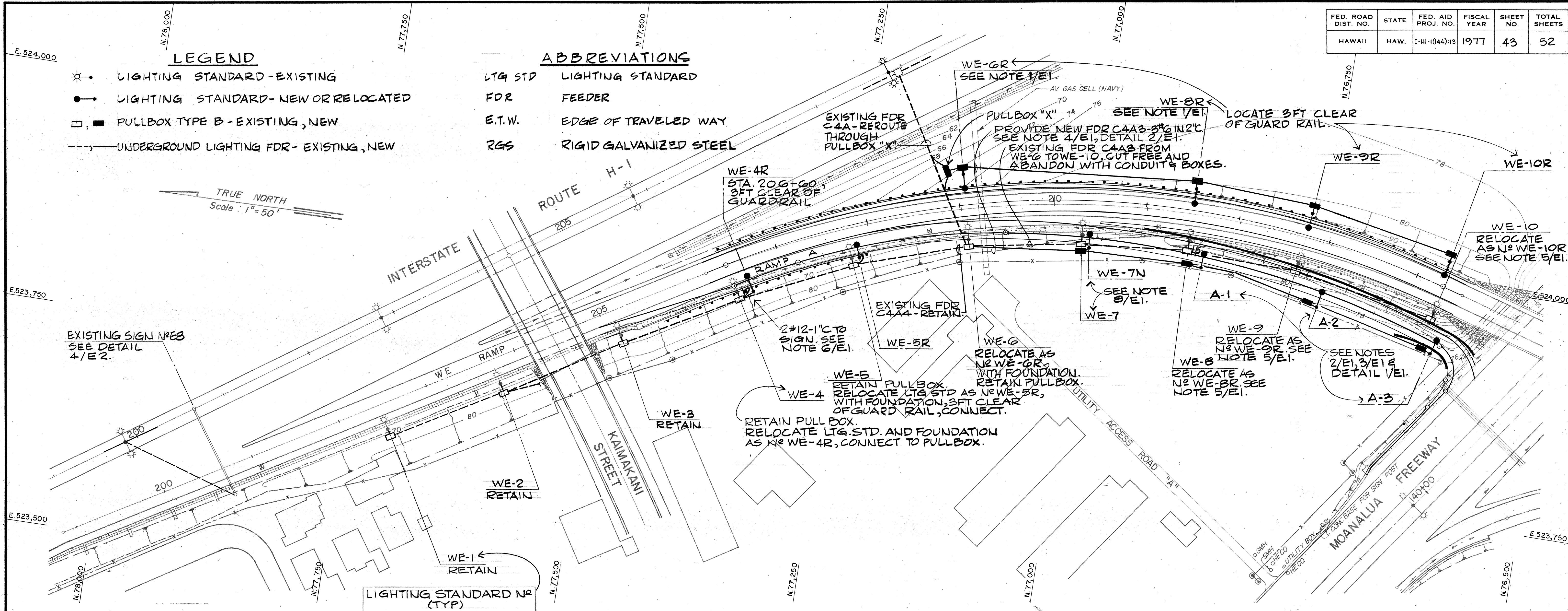
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(14):13	1977	43	52

LEGEND

-  LIGHTING STANDARD-EXISTING
 LIGHTING STANDARD-NEW OR RELOCATED
 PULLBOX TYPE B-EXISTING, NEW
 UNDERGROUND LIGHTING FDR- EXISTING, NEW

ABBREVIATIONS

- | | |
|---------|------------------------|
| LTA STD | LIGHTING STANDARD |
| FDR | FEEDER |
| E.T.W. | EDGE OF TRAVELED WAY |
| RGS | RIGID GALVANIZED STEEL |



DETAILS AND NOTES ARE NUMBERED AS FOLLOWS:

DETAIL OR NOTE NUMBER

1/E1 ← ELECTRICAL SHEET ON WHICH DETAIL OR NOTE IS SHOWN

G/EI. PROVIDE RGS RACEWAY.

7/EI. BEFORE WORKING ON EXISTING
CIRCUITS, INFORM THE
STATE ELECTRICAL SHOP,
PHONE 548-4077.

8/EI. REMOVE LTG STD WE-7 AND STOCKPILE AT STATE YARD. PROVIDE LTG STD WE-7N PER NOTE 2/EI, LUMINAIRE PER NOTE 1/EI, FOUNDATION PER DETAILS 1/EI, 1/E3, 2/E3.

9/EI. STAGE WORK SO THAT ALL
EXISTING LIGHTING IS
OPERATIVE DURING NIG
HOURS.

NOTES

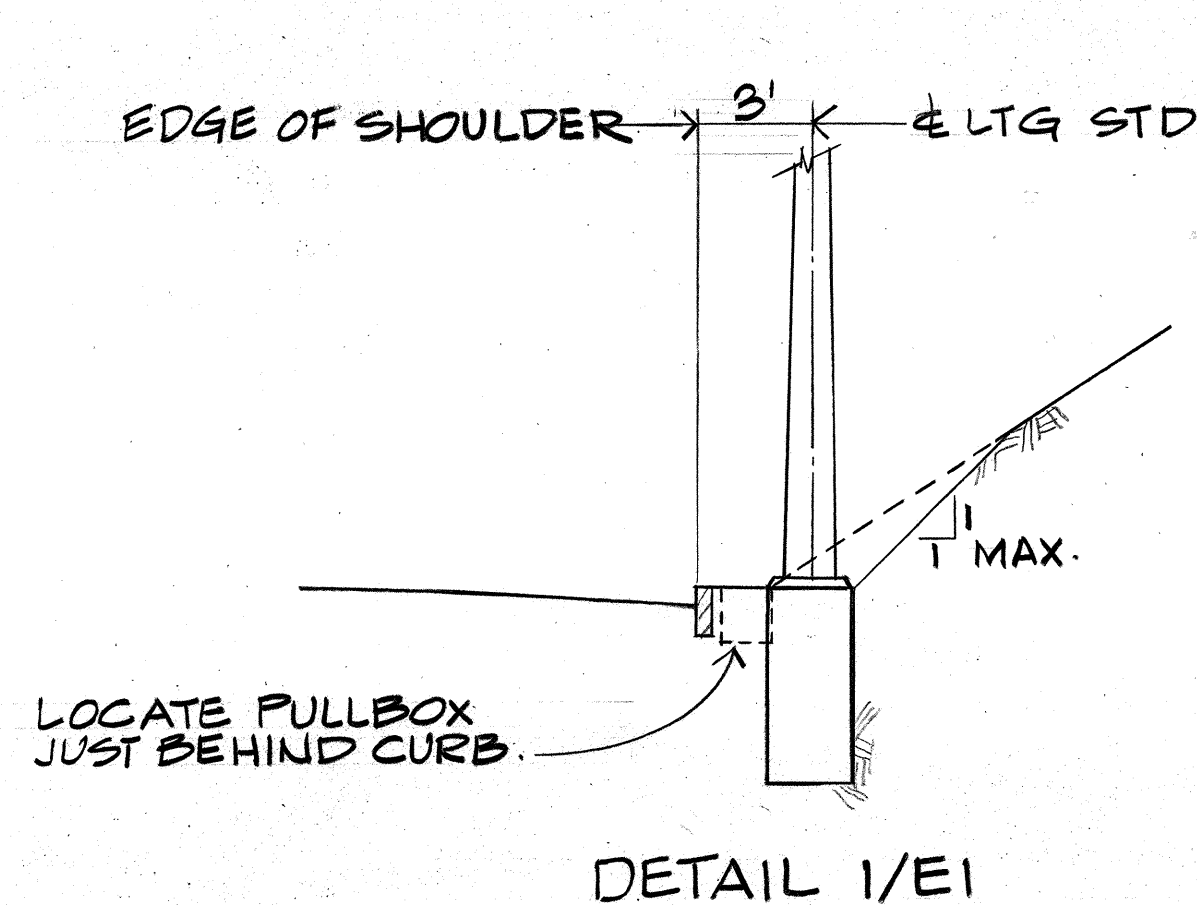
1/E1. REMOVE AND STOCKPILE EXISTING LUMINAIRE. PROVIDE NEW 400 WATT LUMINAIRE AND LAMP. SEE

2/E1. PROVIDE NEW LTG. STD. WITH 15-FT
BRACKET ARM HAVING MOUNT-
ING HEIGHT OF 30 FT. SEE
DETAILS 1/E3. 2/E3.

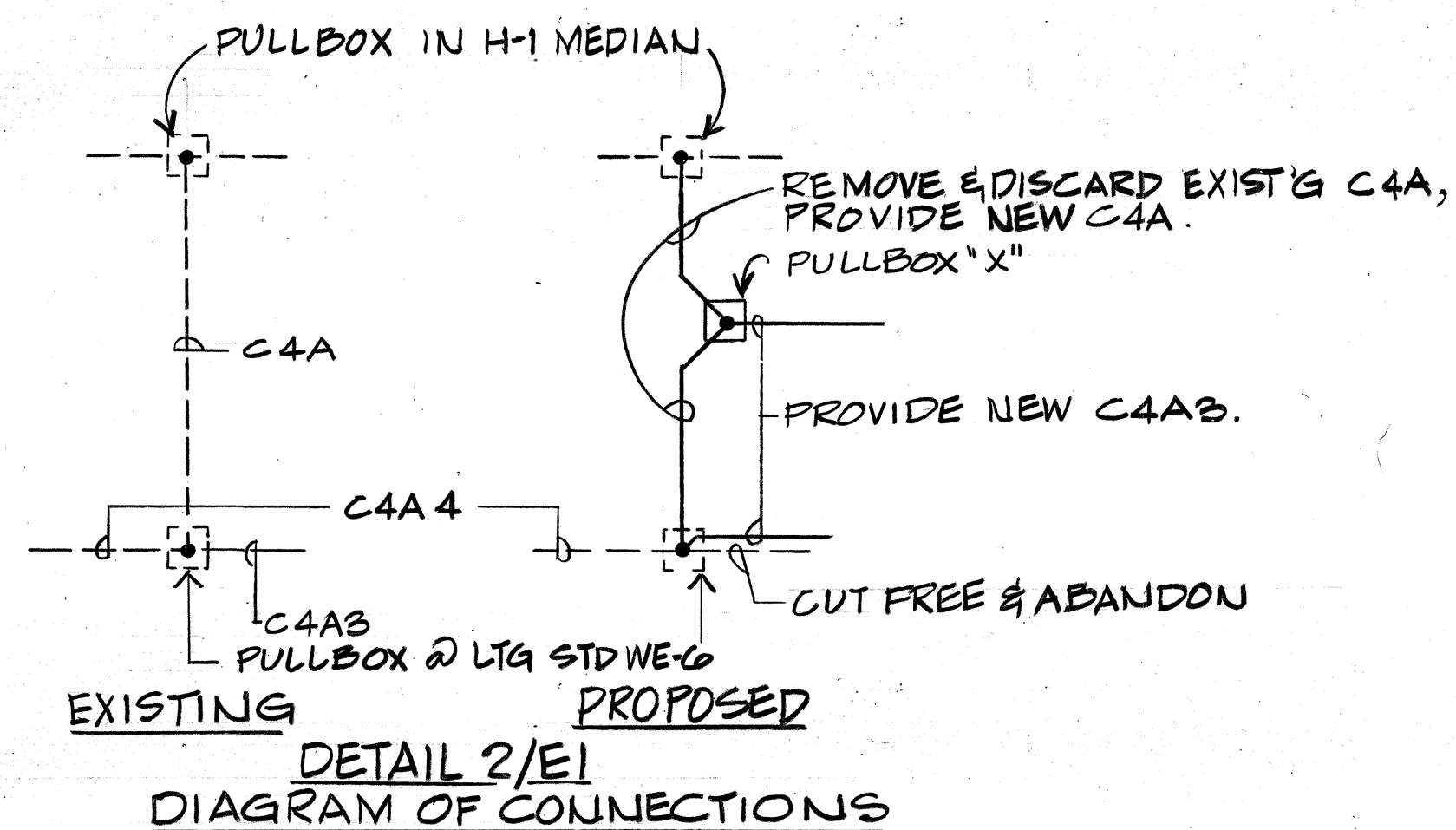
3/E1. INSTALL LUMINAIRE STOCK-PILED PER NOTE 1/E1, WITH NEW 250 WATT LAMP.

3. 4/E1. DISTRIBUTE LOAD AMONG THE THREE PHASES. USE #12 WIRE FOR TAP FROM FEEDER TO LUMINAIRE.

5/E1 WITH LIGHTING STANDARD, RELOCATE FOUNDATION. PROVIDE NEW PULLBOX.



DETAIL 1/E1



DETAIL 2/E1
DIAGRAM OF CONNECTIONS



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ME OR UNDER MY SUPERVISION

m.a. marzalone

11/30/78	DELETE SIGN E-7
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

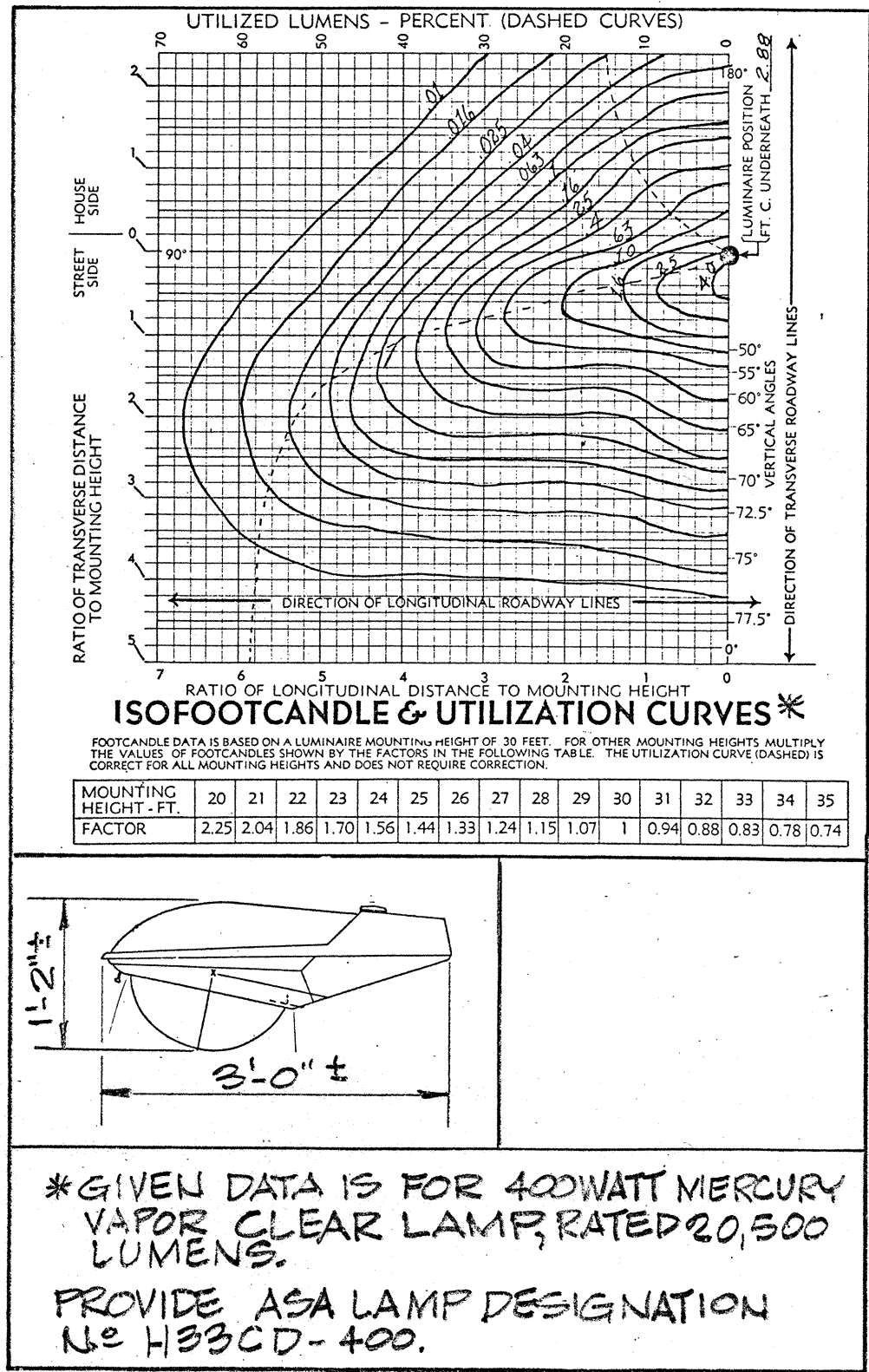
ELECTRICAL PLAN

HALAWA INTERCHANGE
PROJECT NO I-HI-1(144):13
SCALE: AS SHOWN DATE: JULY, 1977

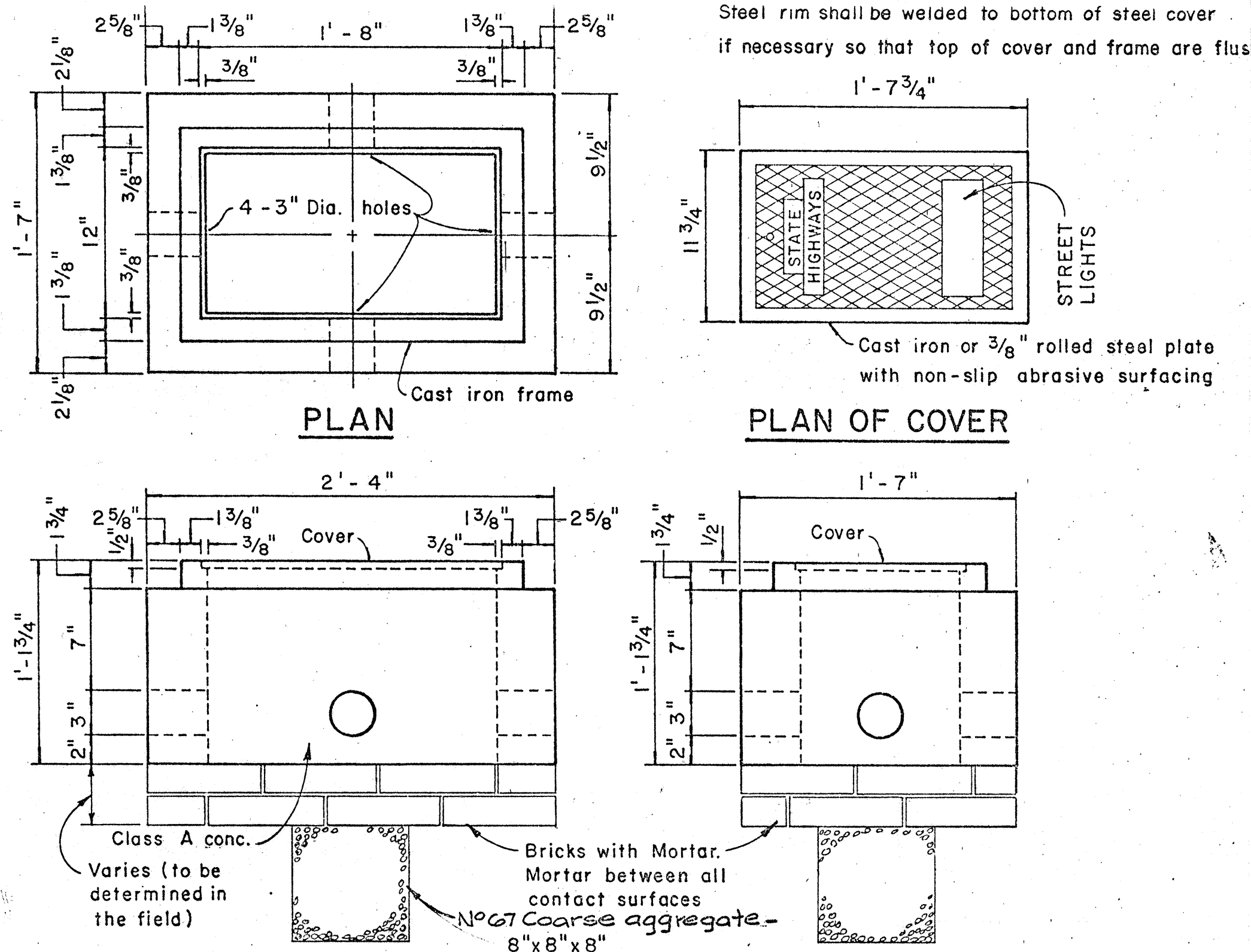
SHEET No. E1 OF 3 SHEETS

C.O. 43

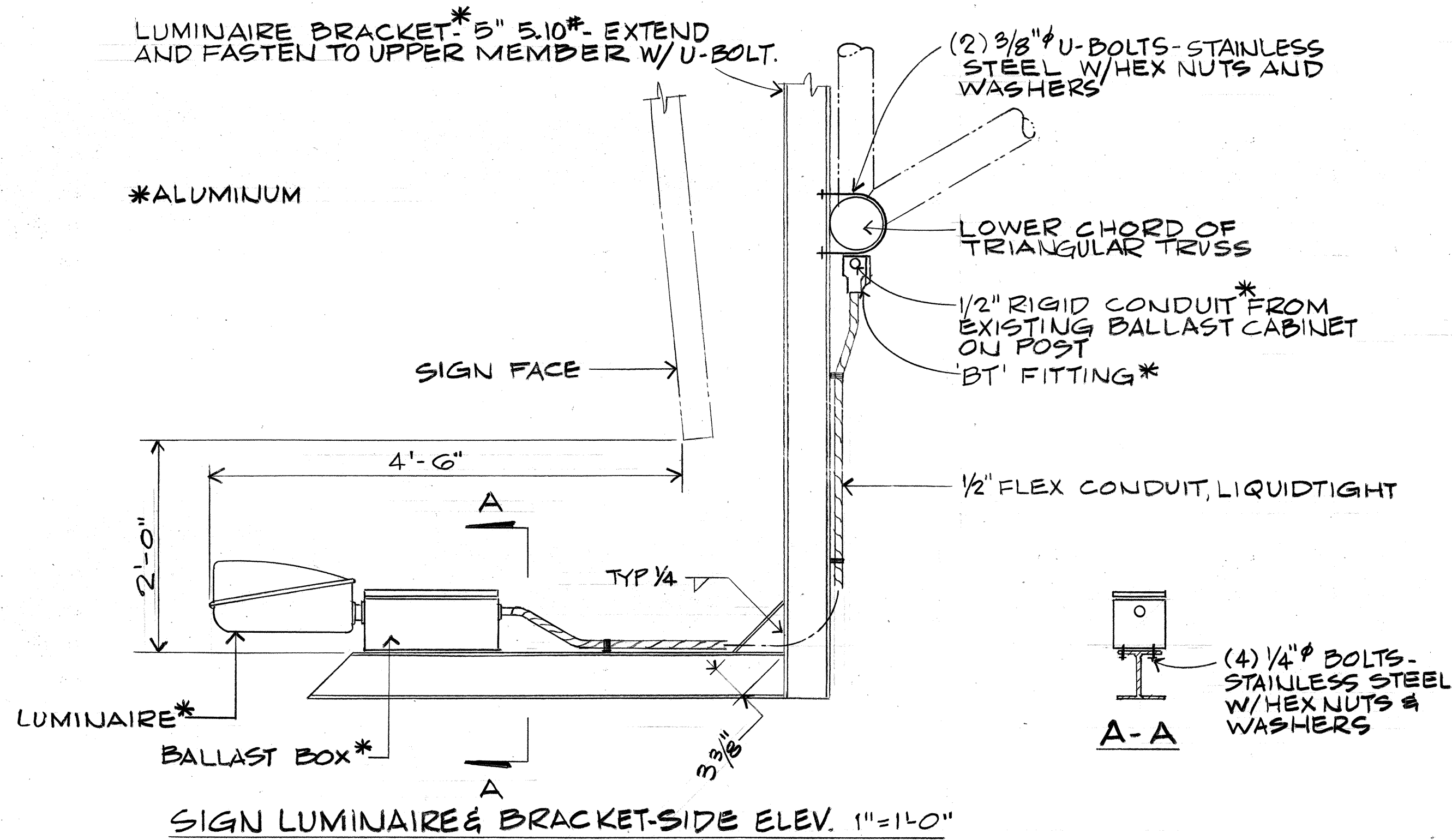
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(144):13	1977	44	52



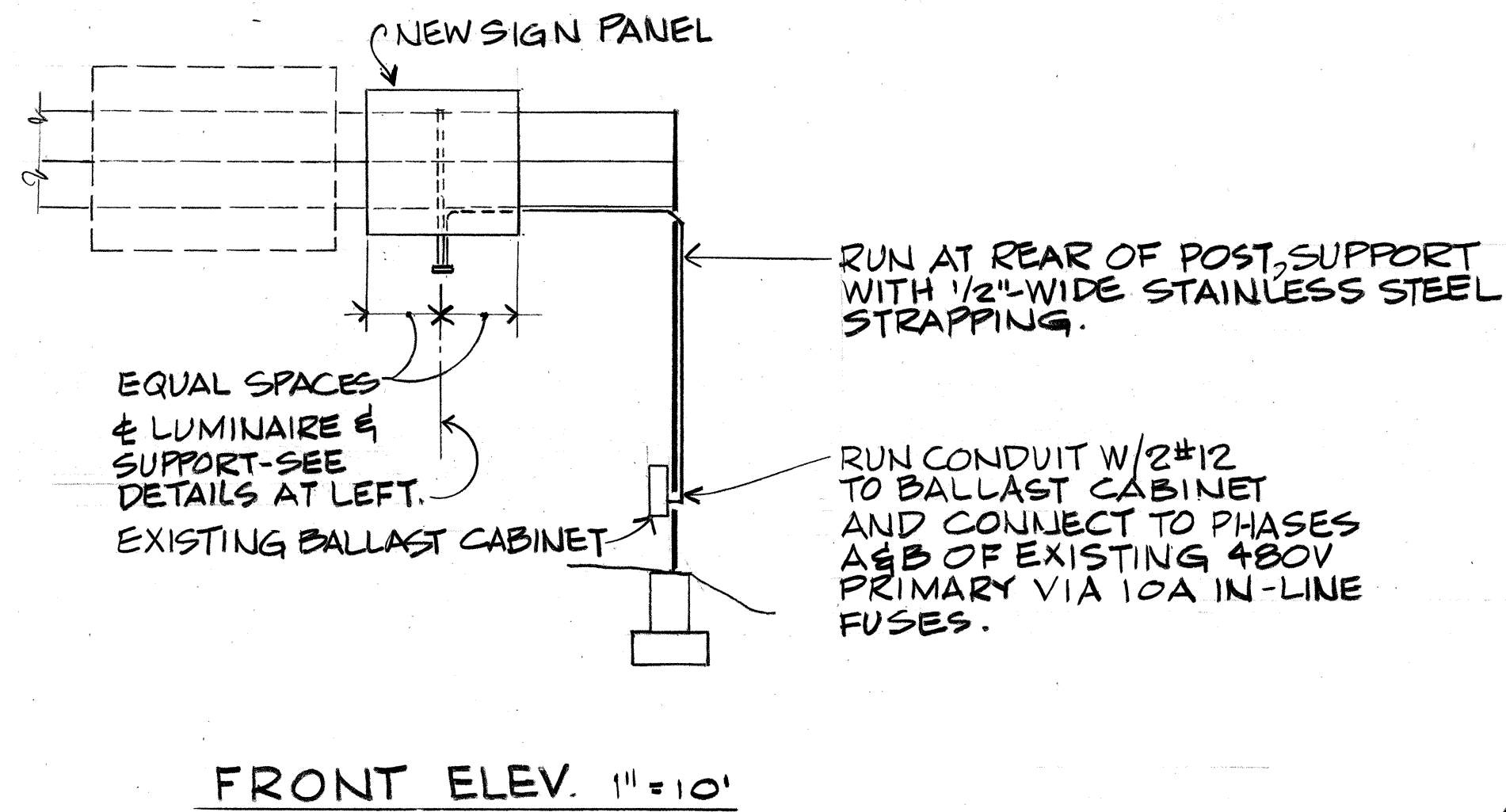
DETAIL 1/E2
400WATT RDWY LUMINAIRE



DETAIL 2/E2
PULLBOX TYPE B



DETAIL 4/E2
MODIFICATIONS TO SIGN No EB



DATE	SURVEY PLATTED BY
DATE	DRAWN BY
DATE	DESIGNED BY
DATE	NOTED BY
DATE	CHECKED BY



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M. A. Marszalowicz

11/30/78	DELETE SIGN E-9
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

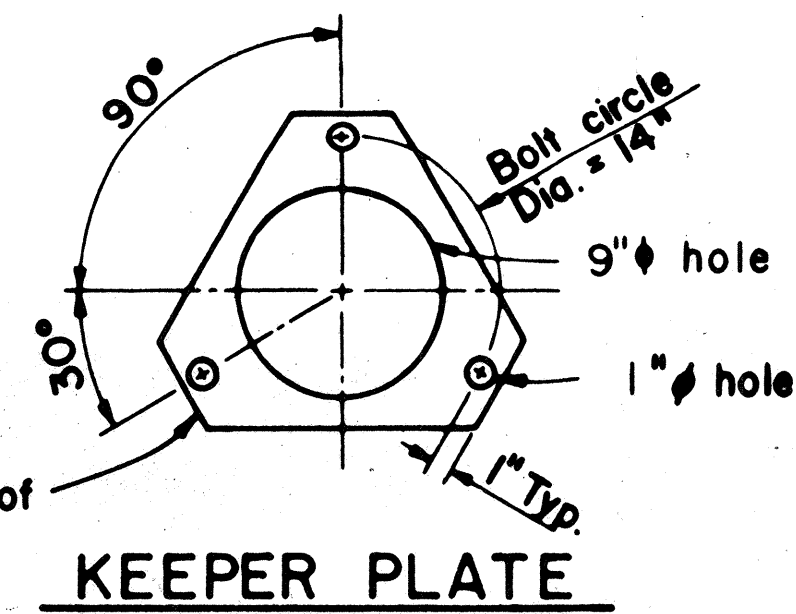
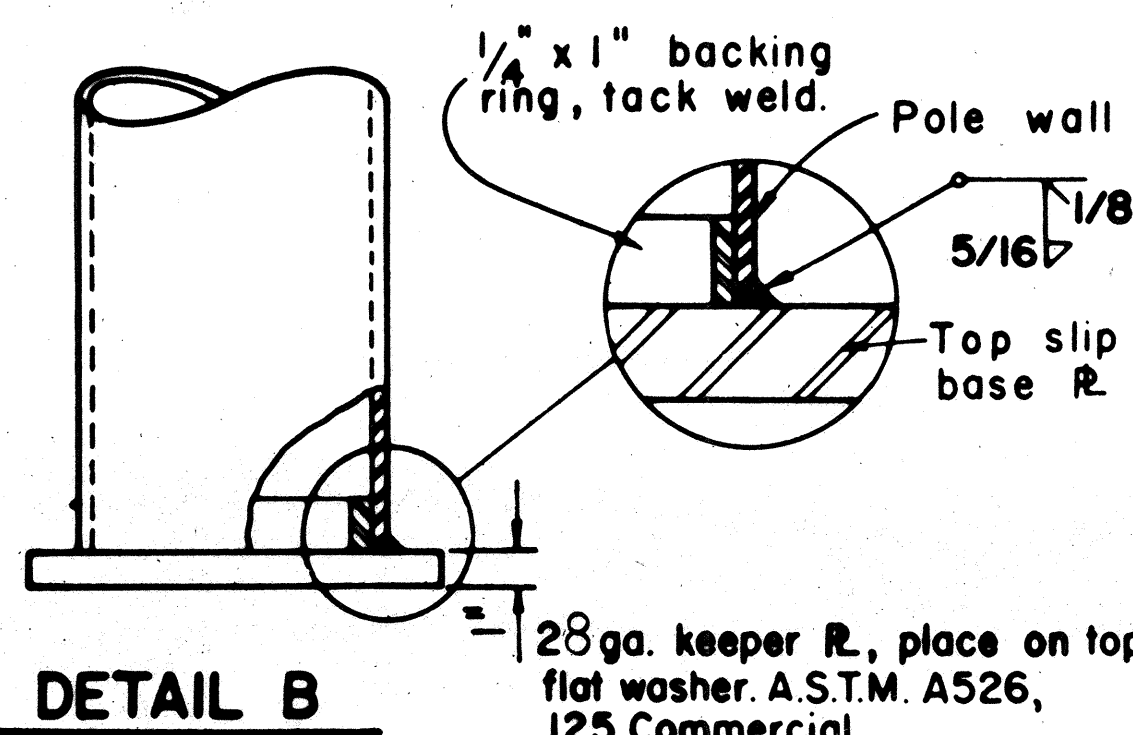
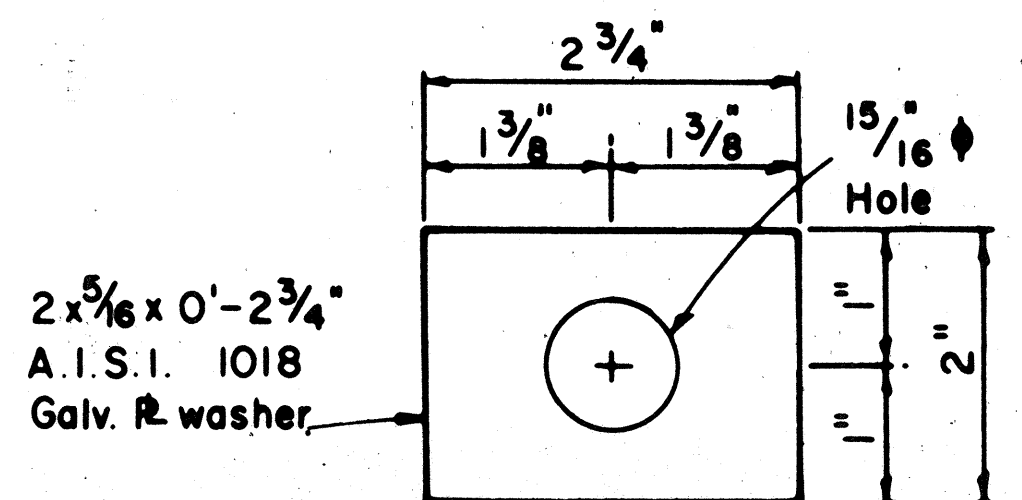
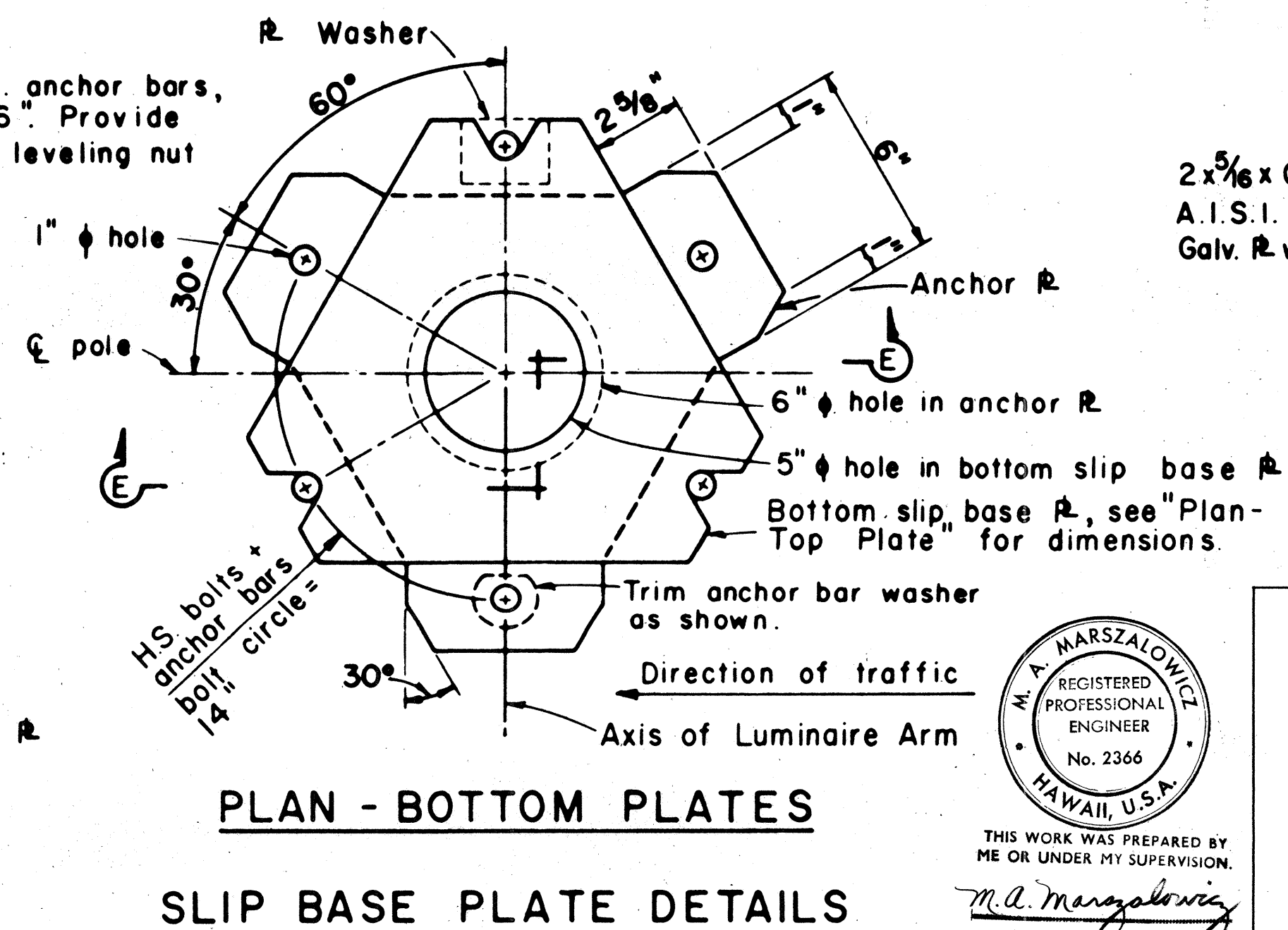
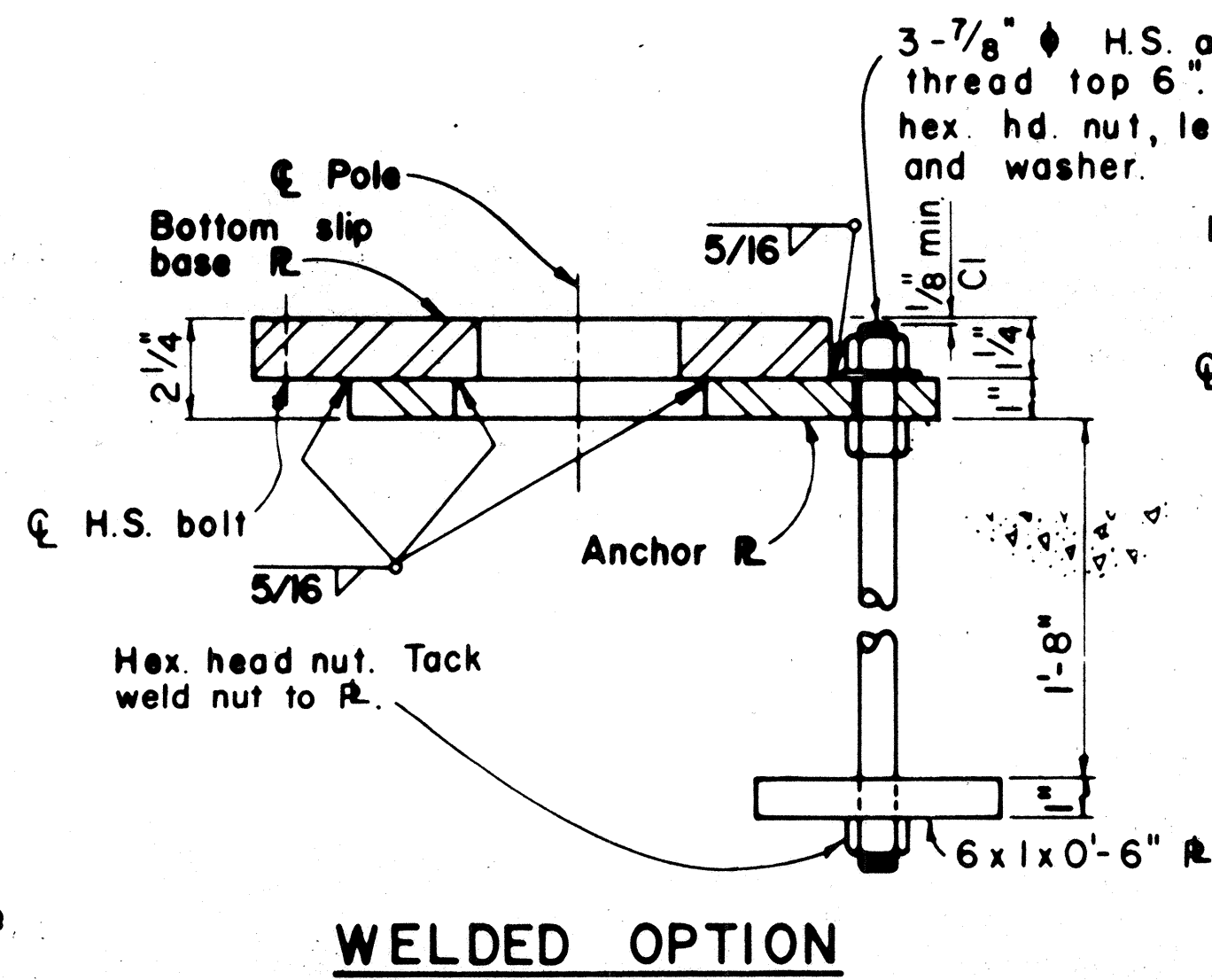
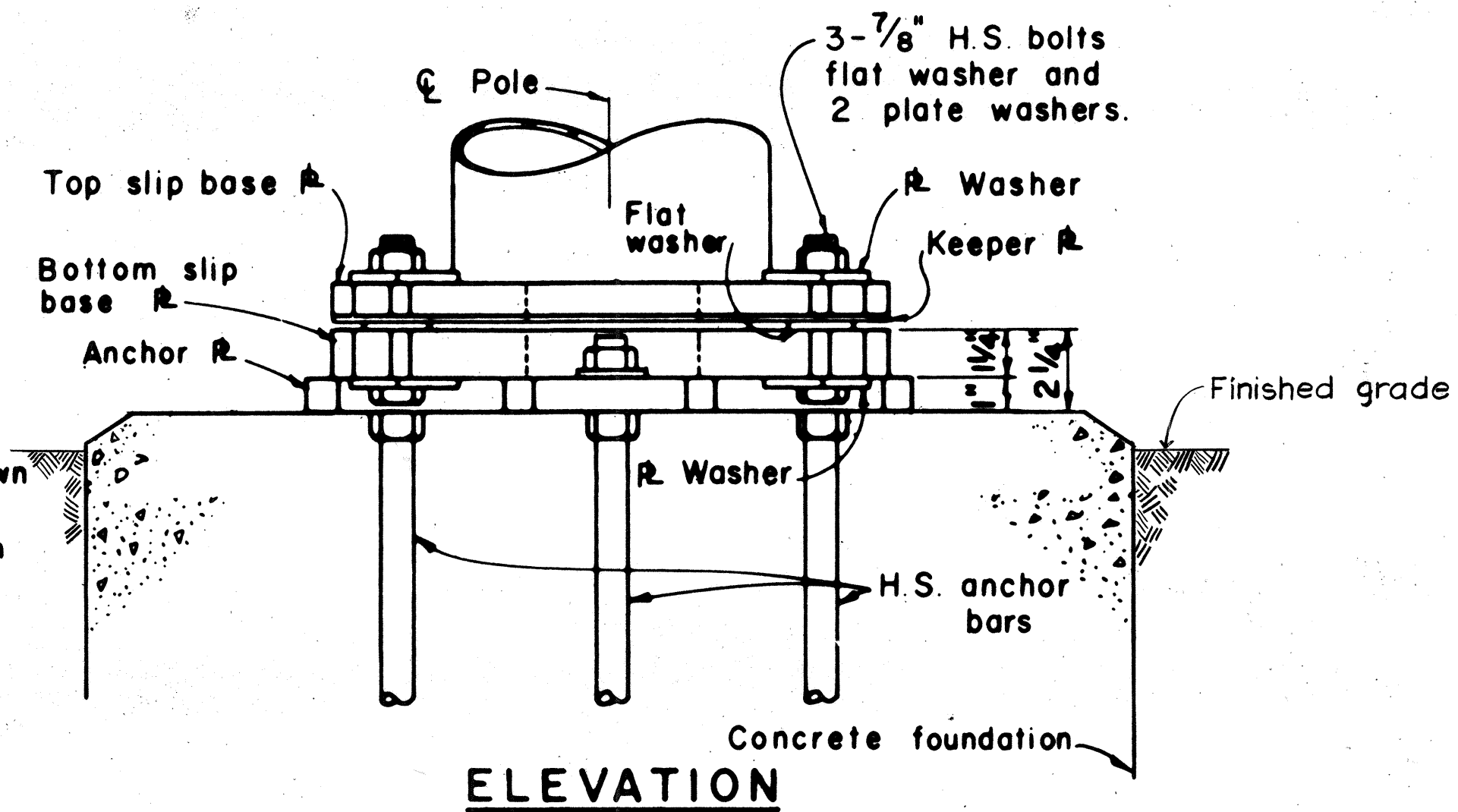
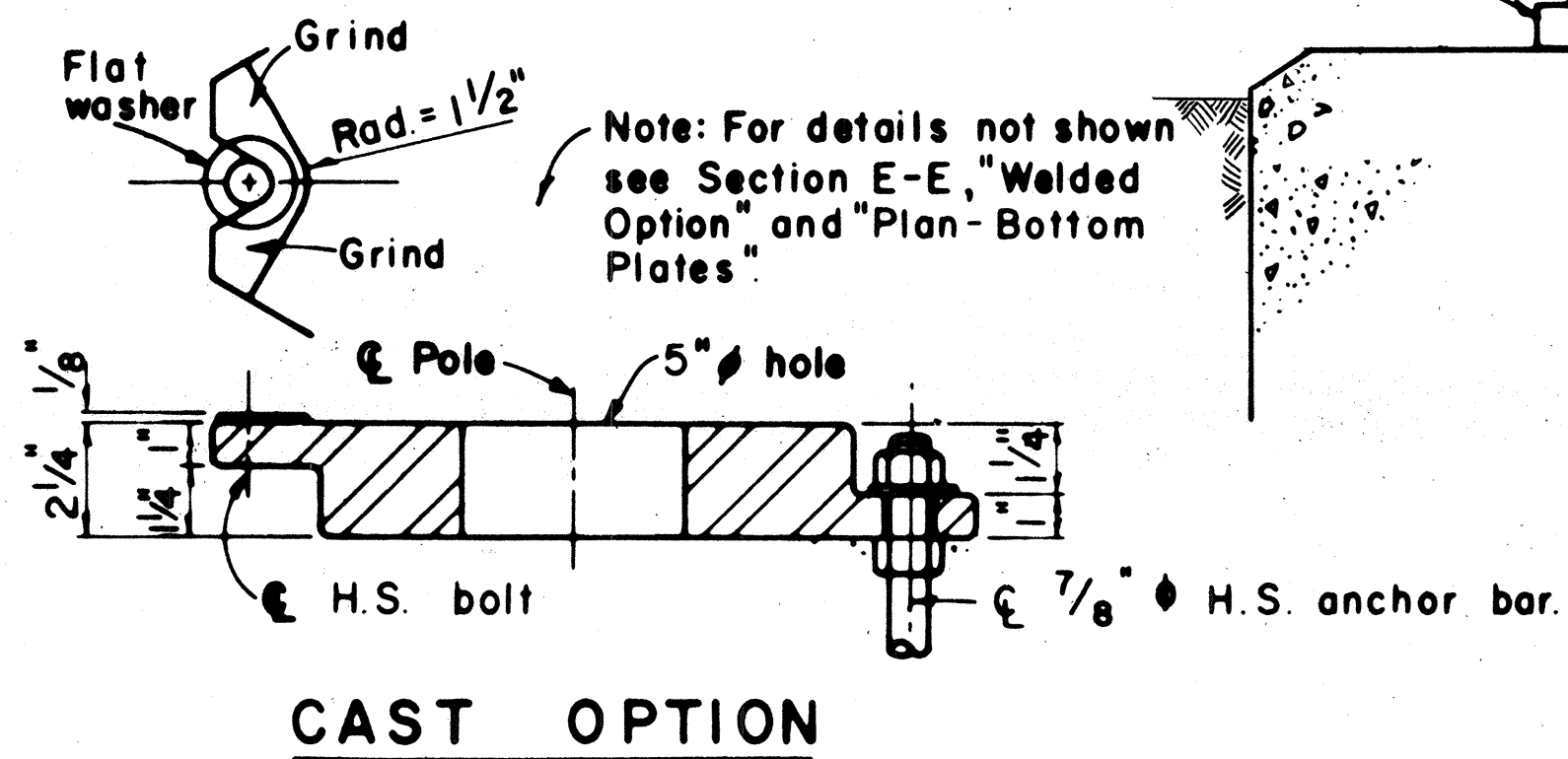
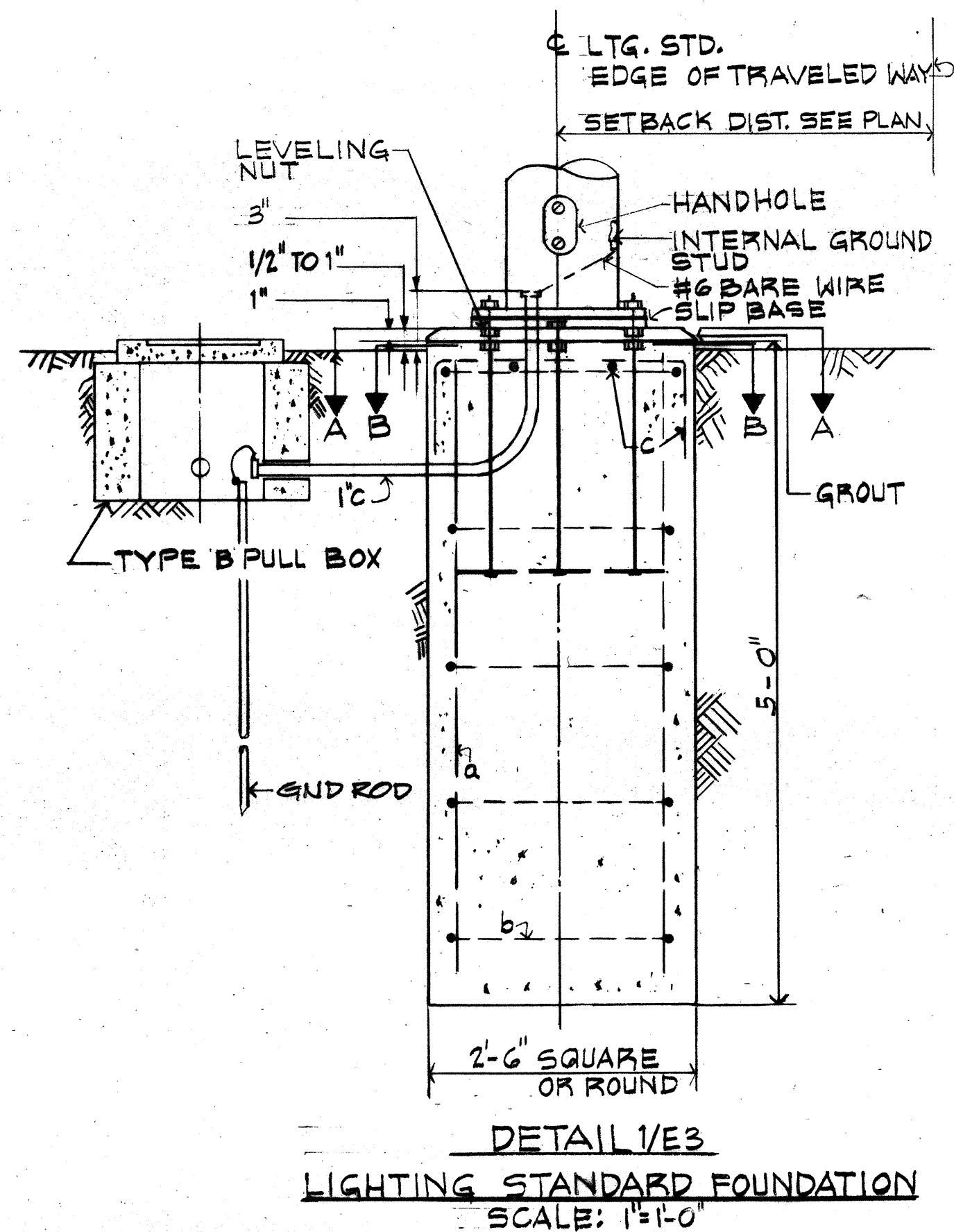
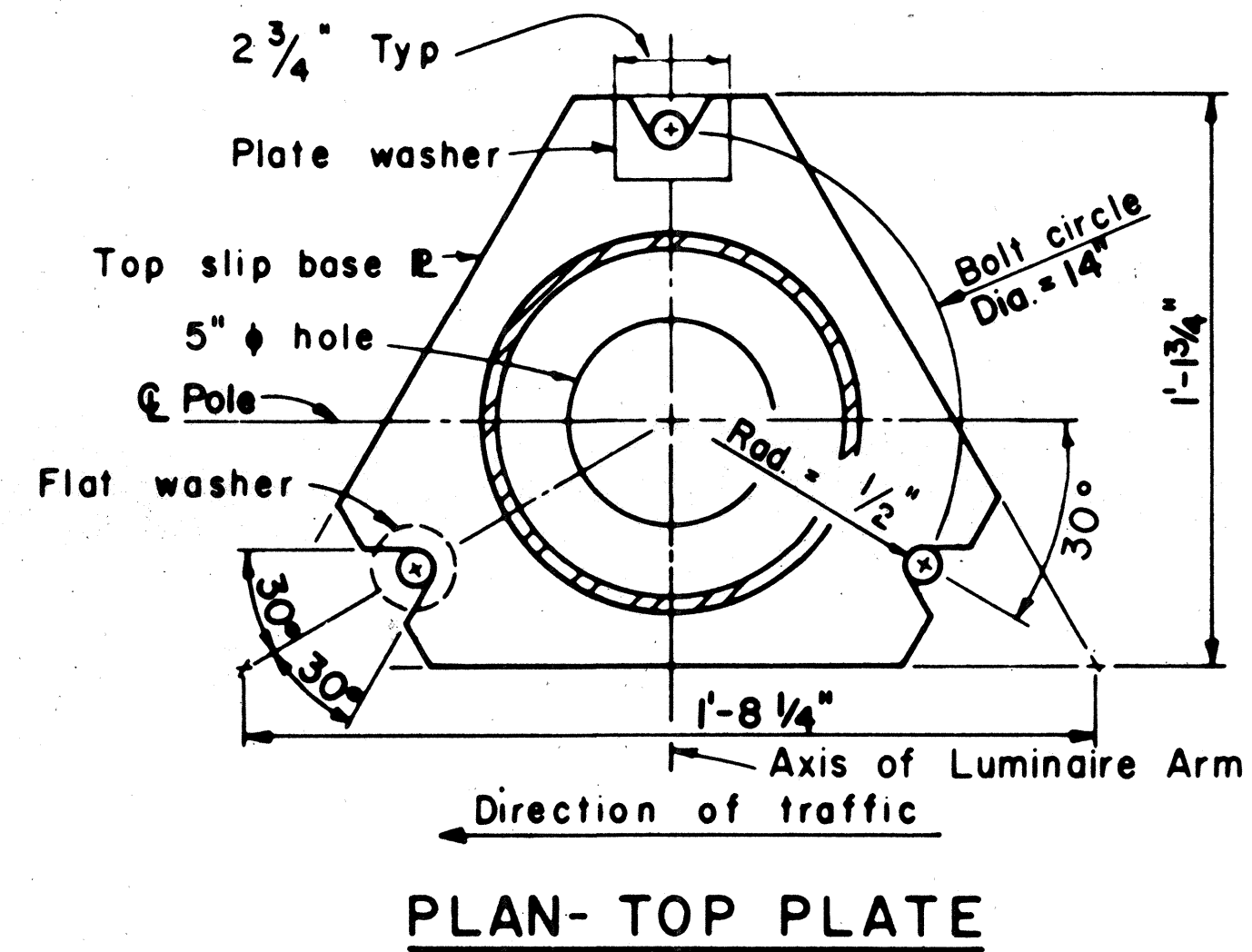
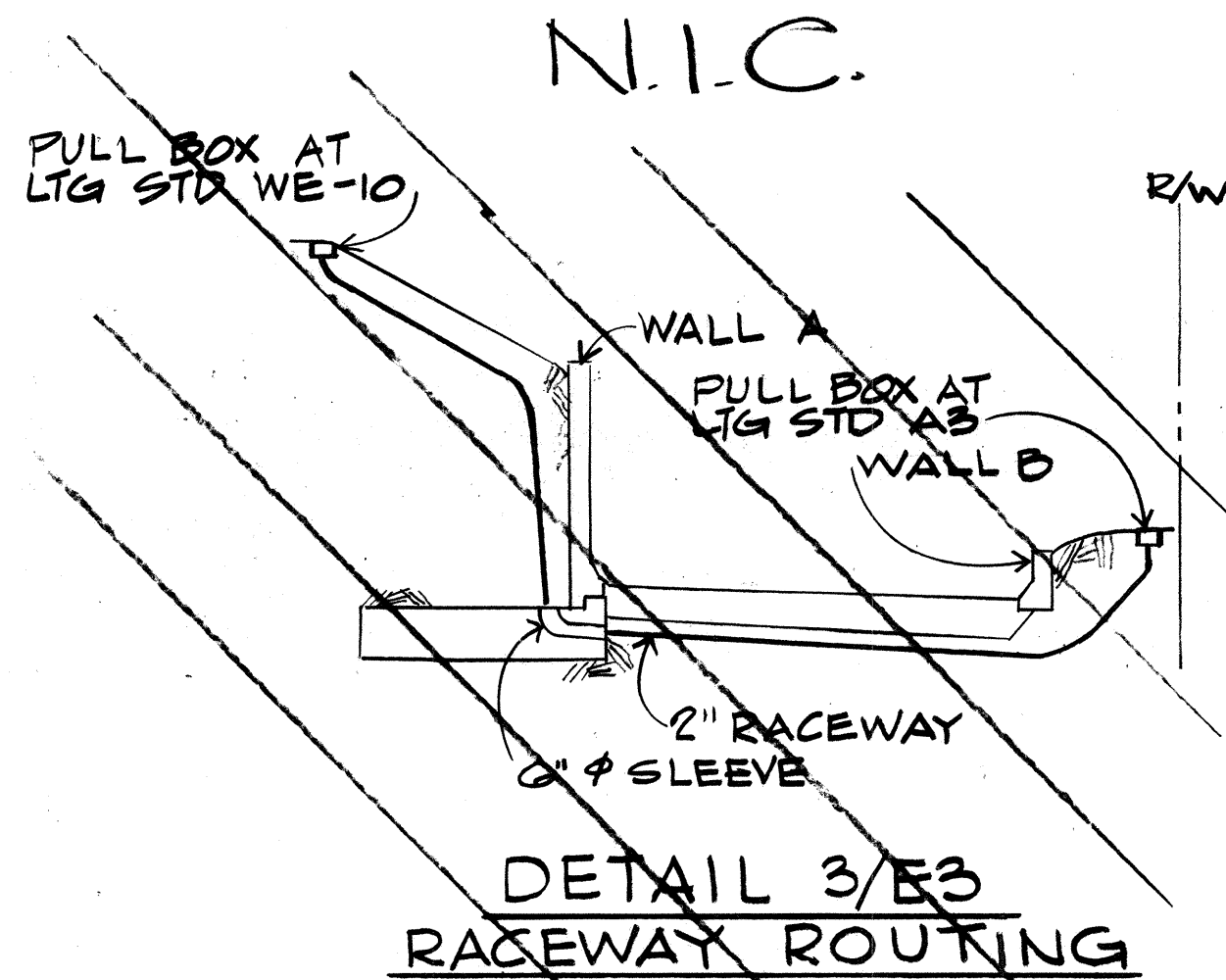
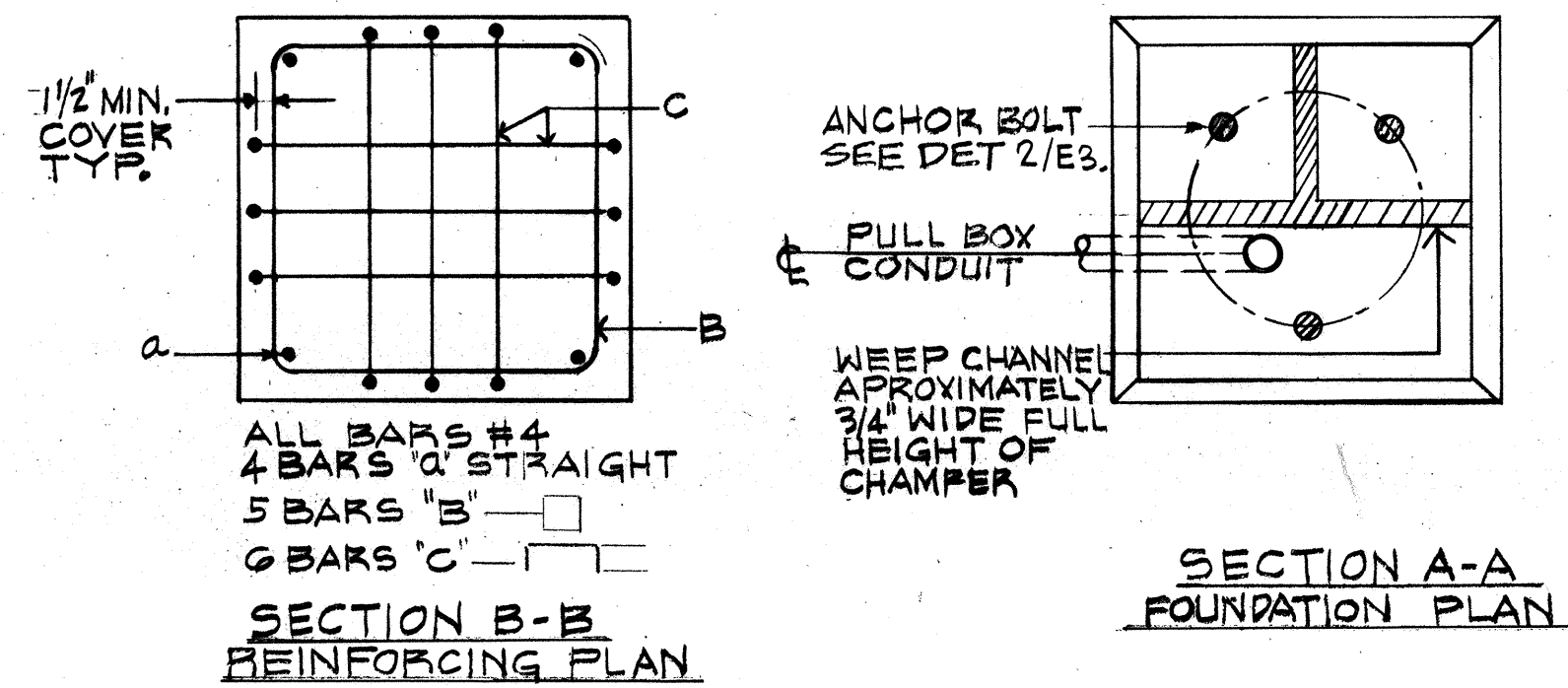
ELECTRICAL DETAILS
PART I

HALAWA INTERCHANGE
PROJECT No I-HI-1(144):13
SCALE: AS SHOWN DATE: JULY, 1977
SHEET No. E2 OF 3 SHEETS

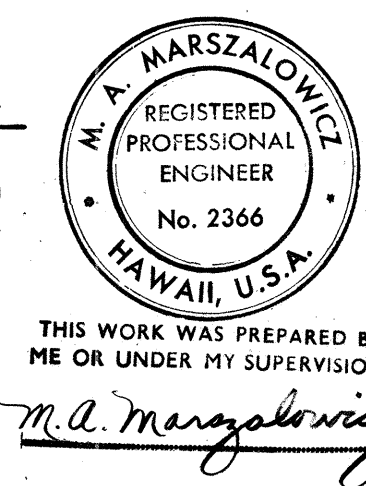
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(144):13	1977	45	52

NOTES:

1. PLATES SHALL CONFORM TO A.S.T.M. A-36, EXCEPT AS NOTED.
2. CAST OPTION SHALL CONFORM TO A.S.T.M. A-27 GRADE 70-40. ALTERNATIVE DETAILS APPROVED BY THE ENGINEER MAY BE SUBSTITUTED FOR THE ARM CONNECTIONS SHOWN.
3. TORQUE 7/8" H.S. BOLTS TO 84 FOOT-POUNDS.
4. 7/8" HIGH STRENGTH ANCHOR BARS, WRENCH TIGHTEN, TORQUE REQUIREMENT WAIVED. FABRICATORS ELECTING TO USE LARGER MINIMUM ARM DIAMETERS MUST ADJUST THE DETAILS AS REQUIRED TO PERMIT SOLID SEATING OF CAP SCREWS. IN LIEU OF THE TORQUE REQUIREMENTS FOR H.S. BOLTS, CAP SCREWS SHALL BE TIGHTENED BY THE TURN-OF-NUT METHOD 1/6 TURN FROM SNUG TIGHT CONDITION. NO WASHER WILL BE REQUIRED.
5. H.S. BOLTS, FLAT WASHERS AND NUTS AND WASHERS FOR H.S. ANCHOR BARS SHALL CONFORM TO A.S.T.M. A-325.



DETAIL 2/E3 LIGHTING STANDARD SLIP BASE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL DETAILS
PART II

HALAWA INTERCHANGE
PROJECT NO I-HI-1(144):13

SCALE: AS SHOWN DATE: JULY, 1977
SHEET NO. E3 OF 3 SHEETS