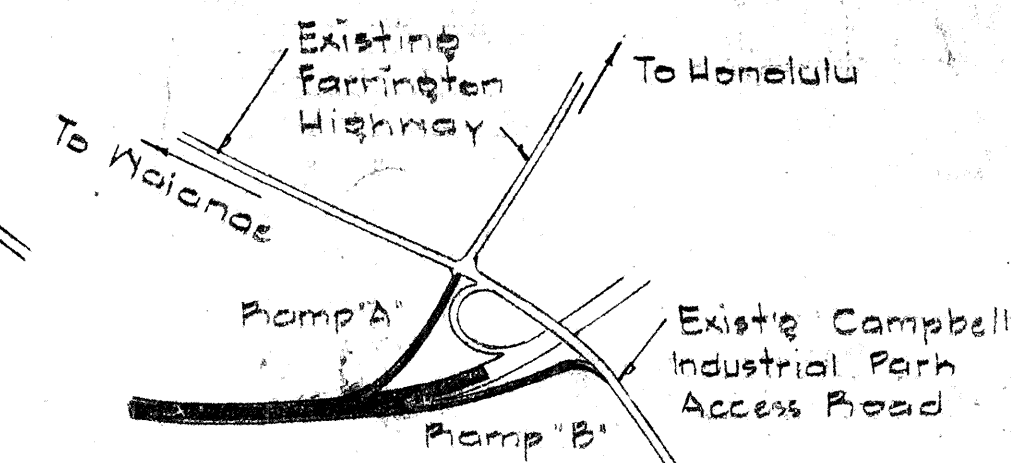


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-10	1974	24	27

NOTES

- Unless indicated otherwise all underground cables shall be Two-#2 AWG.
- Street light cable located 8' from Edge of Roadway Pavement.
- Where slipbase is required for existing Multiple Circuit Pole that is not relocated, the Contractor shall verify existing bolt spacings and all dimensions in the field.

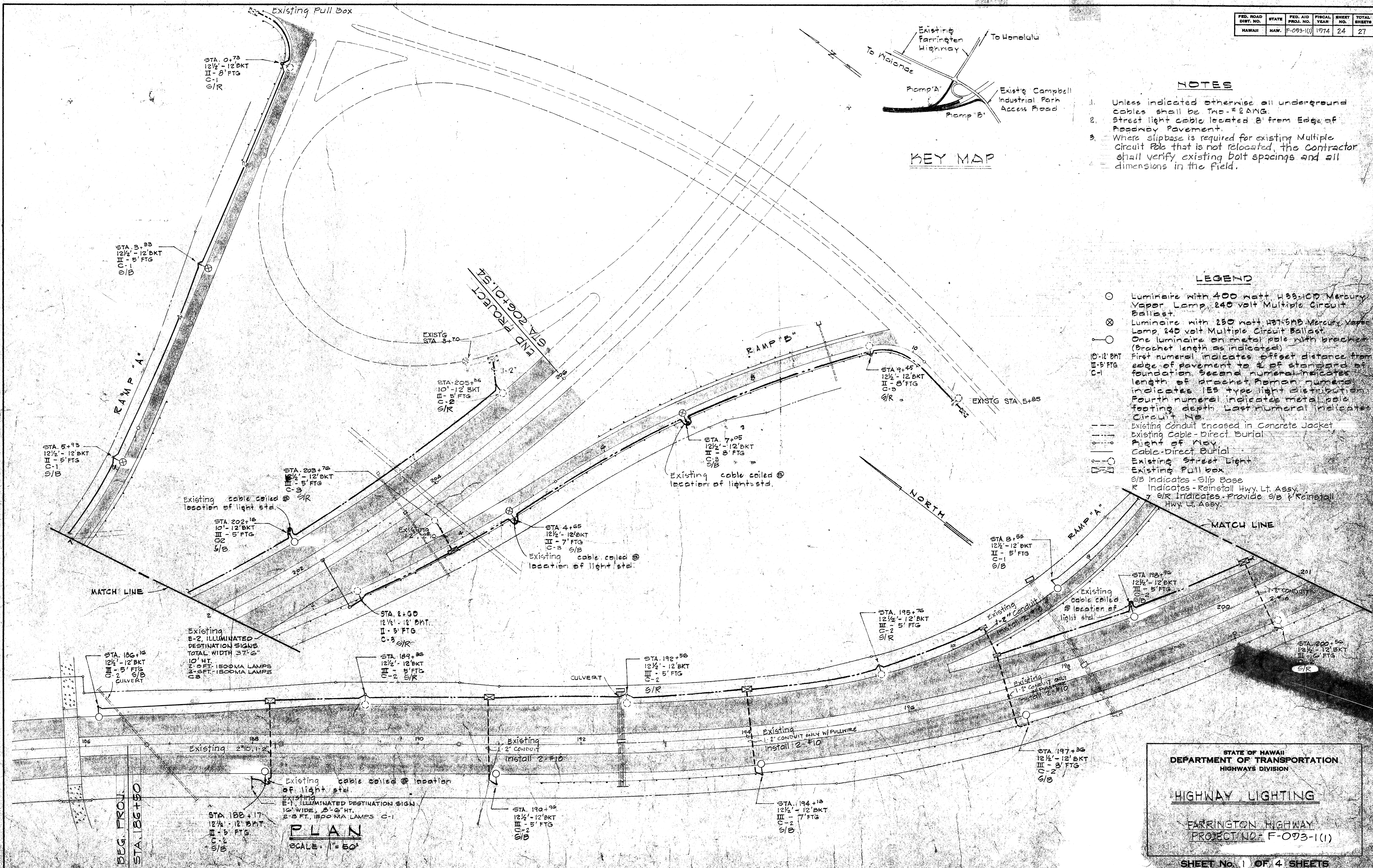
KEY MAP



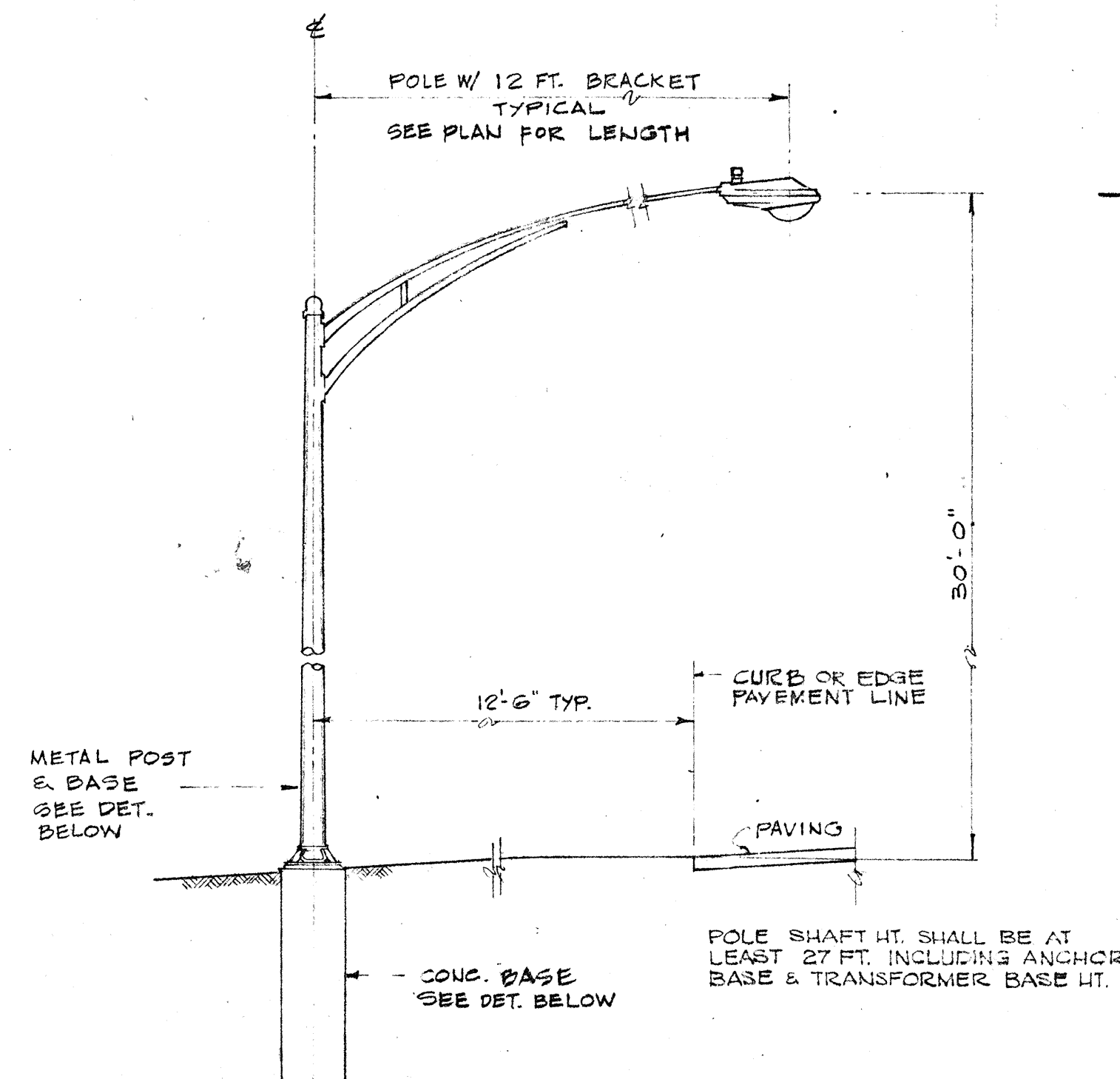
LEGEND

- Luminaire with 400 watt H35-100 Mercury Vapor Lamp, 240 volt Multiple Circuit Ballast.
- ⊗ Luminaire with 250 watt H37-500 Mercury Vapor Lamp, 240 volt Multiple Circuit Ballast.
- One luminaire on metal pole with bracket (Bracket length as indicated)
- 10'-12' BKT First numeral indicates offset distance from edge of pavement to 2' of standard at foundation. Second numeral indicates length of bracket. Roman numeral indicates 155 type light distribution.
- II-5' FTG Fourth numeral indicates metal pole footing depth. Last numeral indicates Circuit No.
- C-1 Existing Conduit Encased in Concrete Jacket
- Existing Cable-Direct Burial
- Plant of Way
- Cable-Direct Burial
- Existing Street Light
- Existing Pull box
- S/B Indicates Slip Base
- R Indicates Reinstall Hwy. Lt. Assy.
- E/R Indicates Provide S/B & Reinstall Hwy. Lt. Assy.

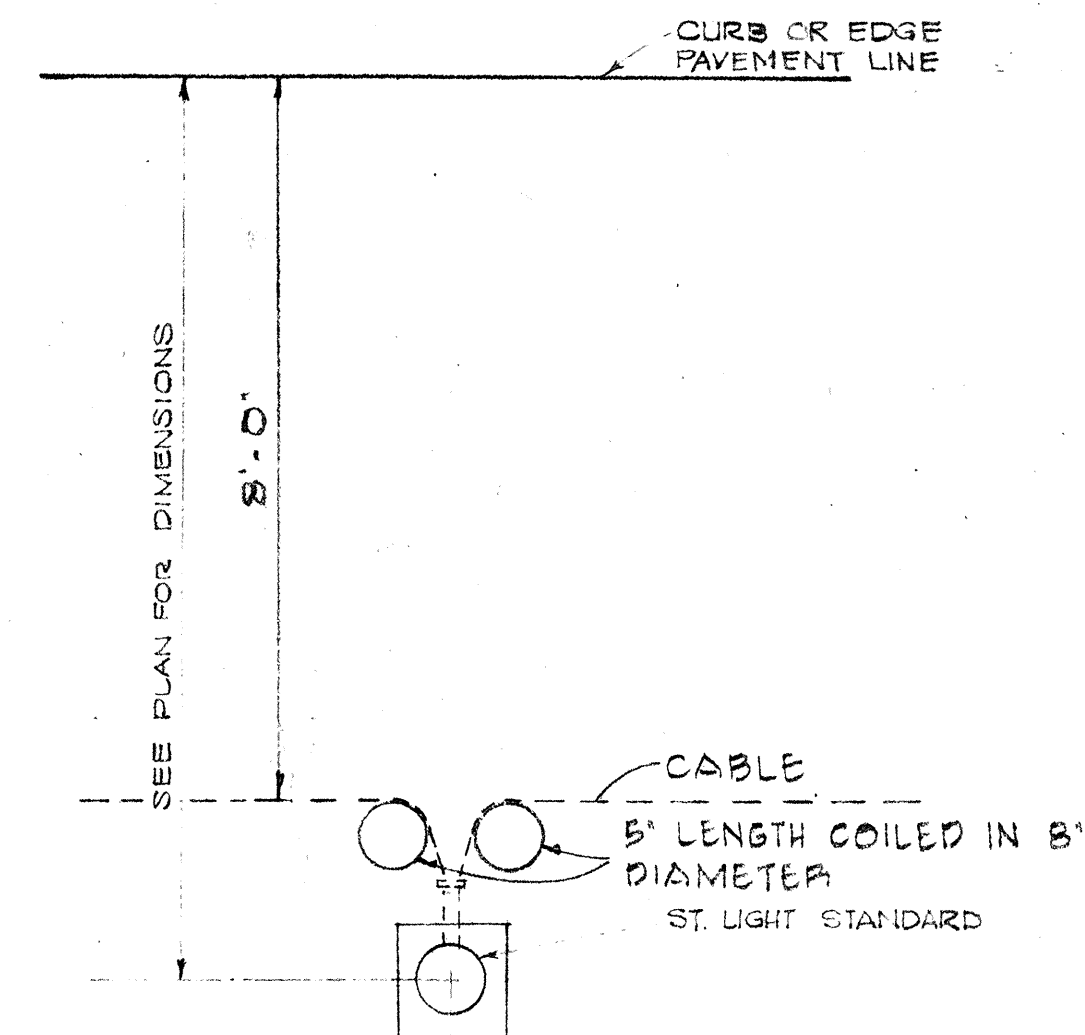
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
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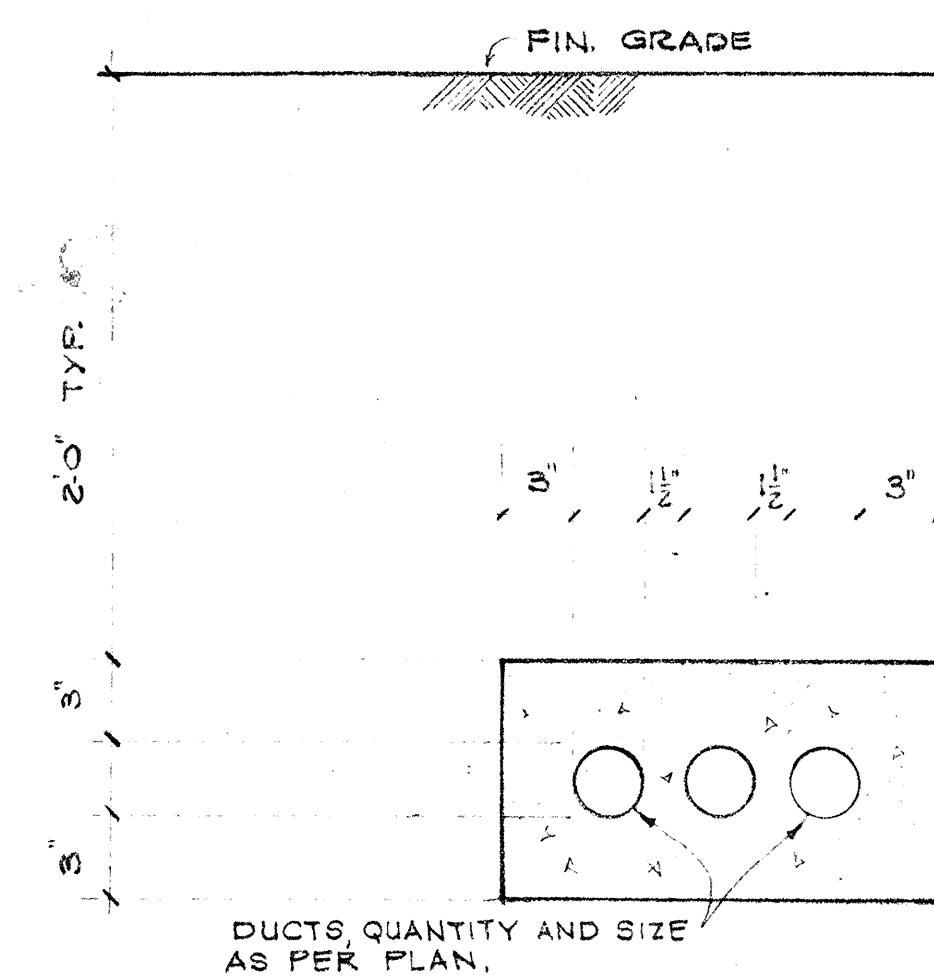
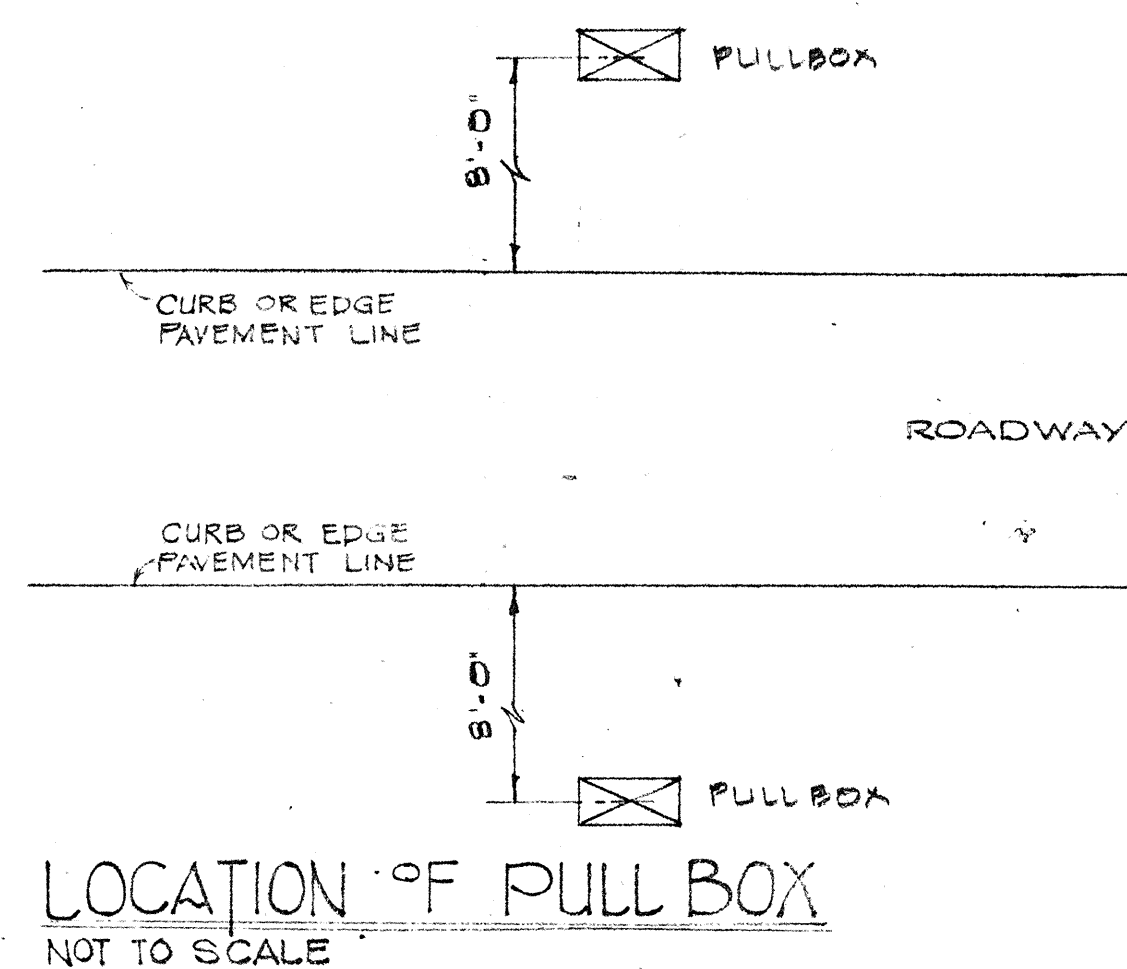
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(1)	1974	25	27



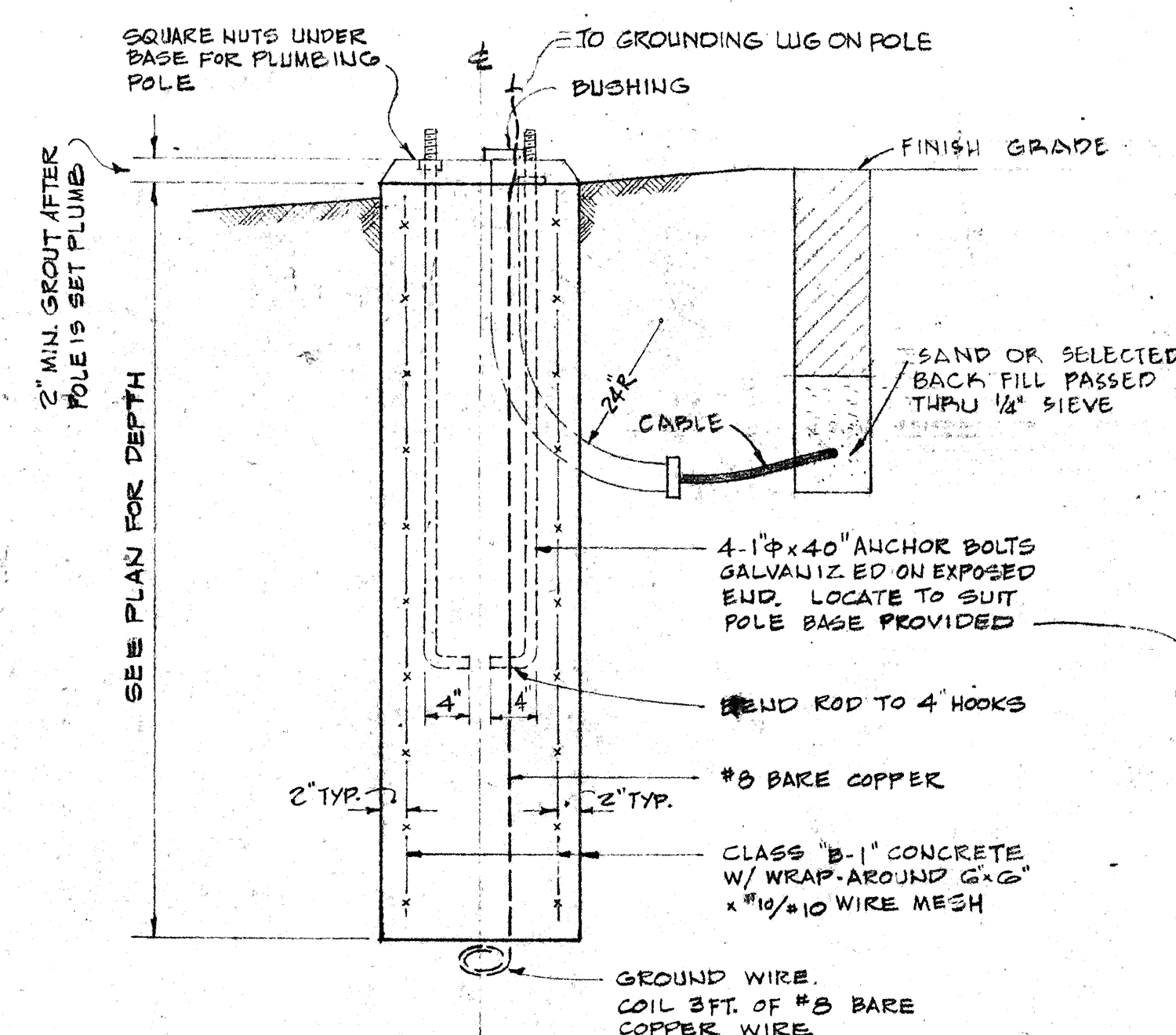
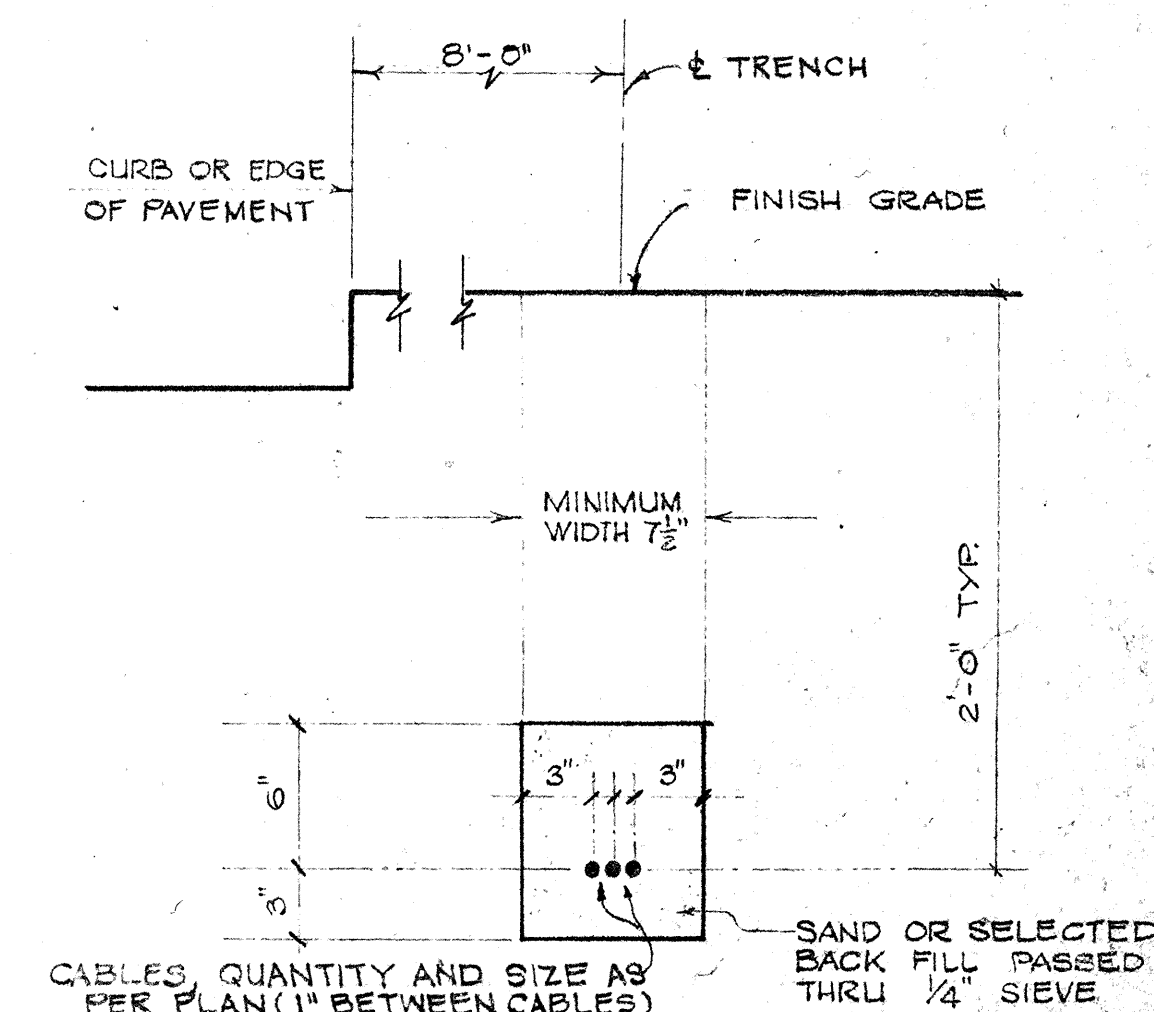
TYP. SINGLE ARM METAL ST. LIGHT POLE
NOT TO SCALE



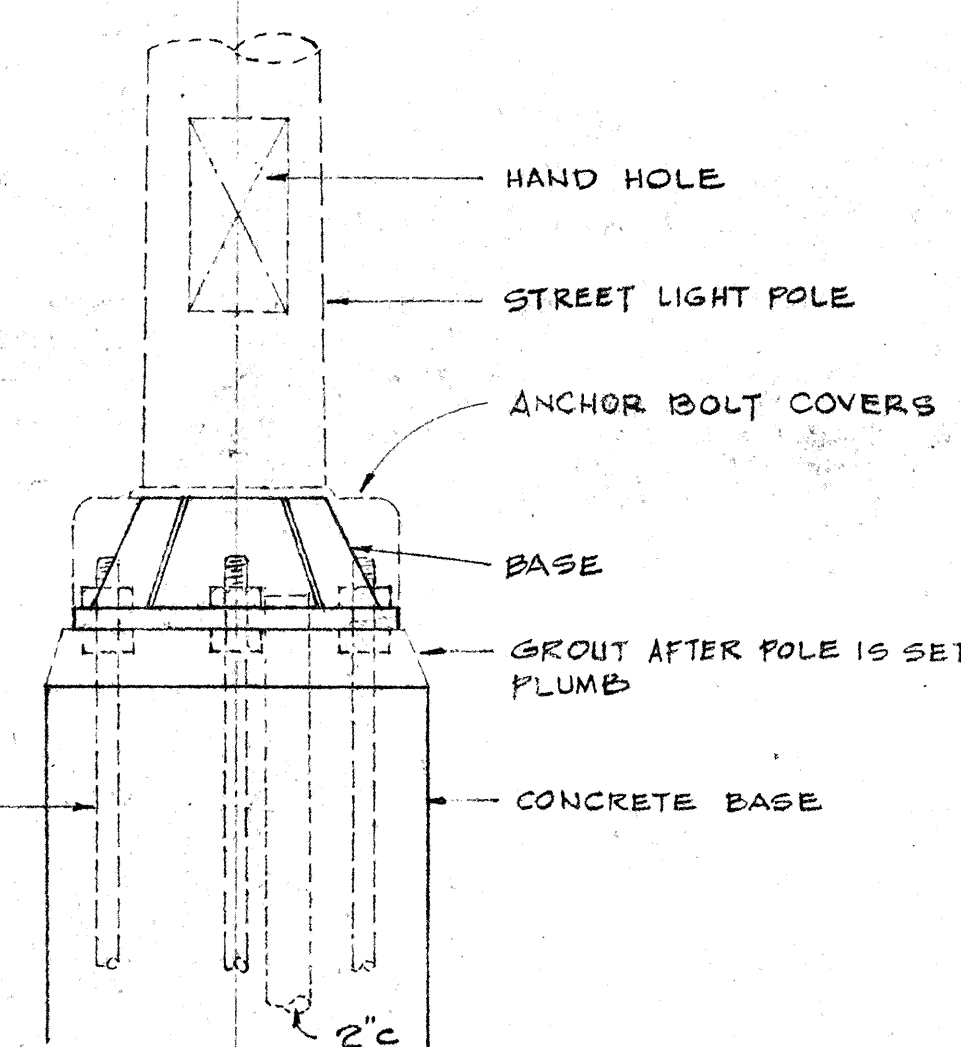
AT ST. LT. STANDARD PLAN OF CABLE INSTALLATION
NOT TO SCALE



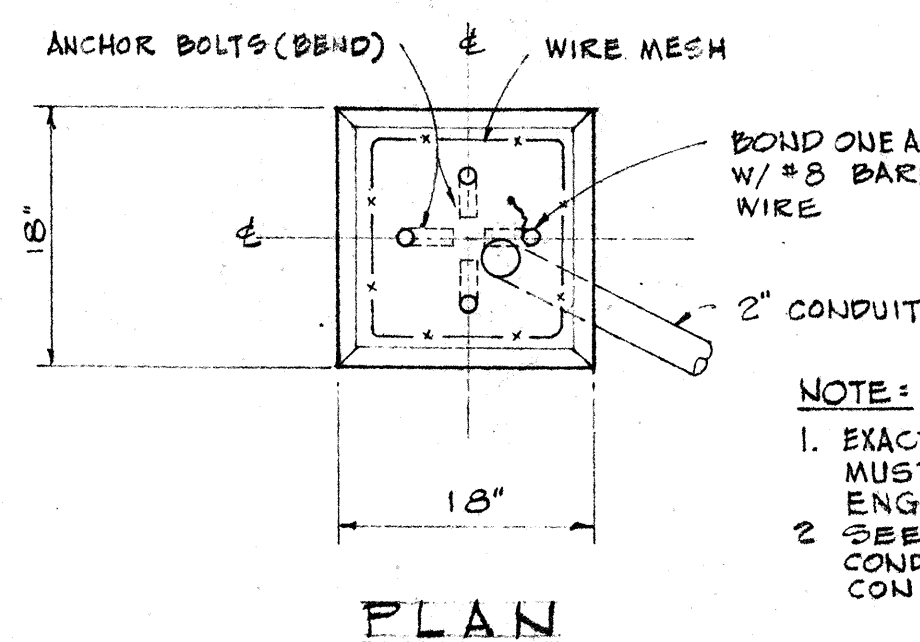
TYPICAL DUCT SECTION
NOT TO SCALE



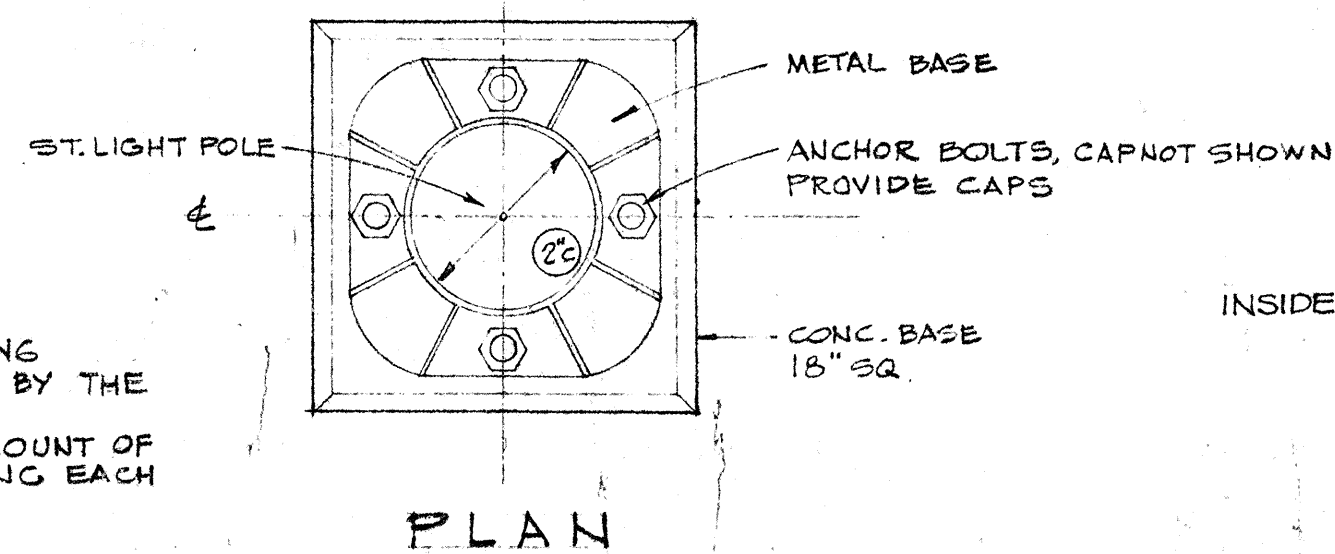
SECTION



SECTION



PLAN

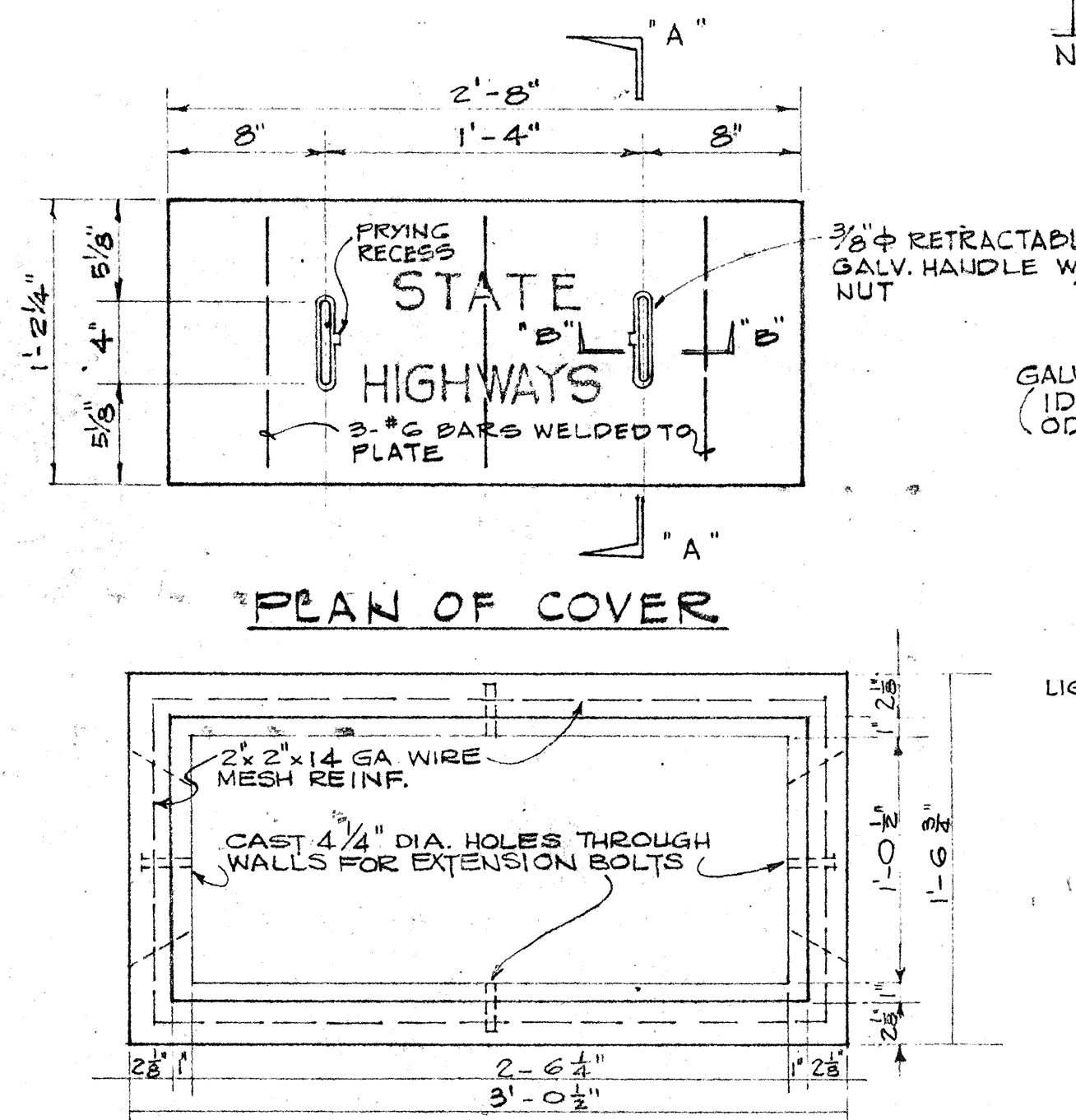


PLAN

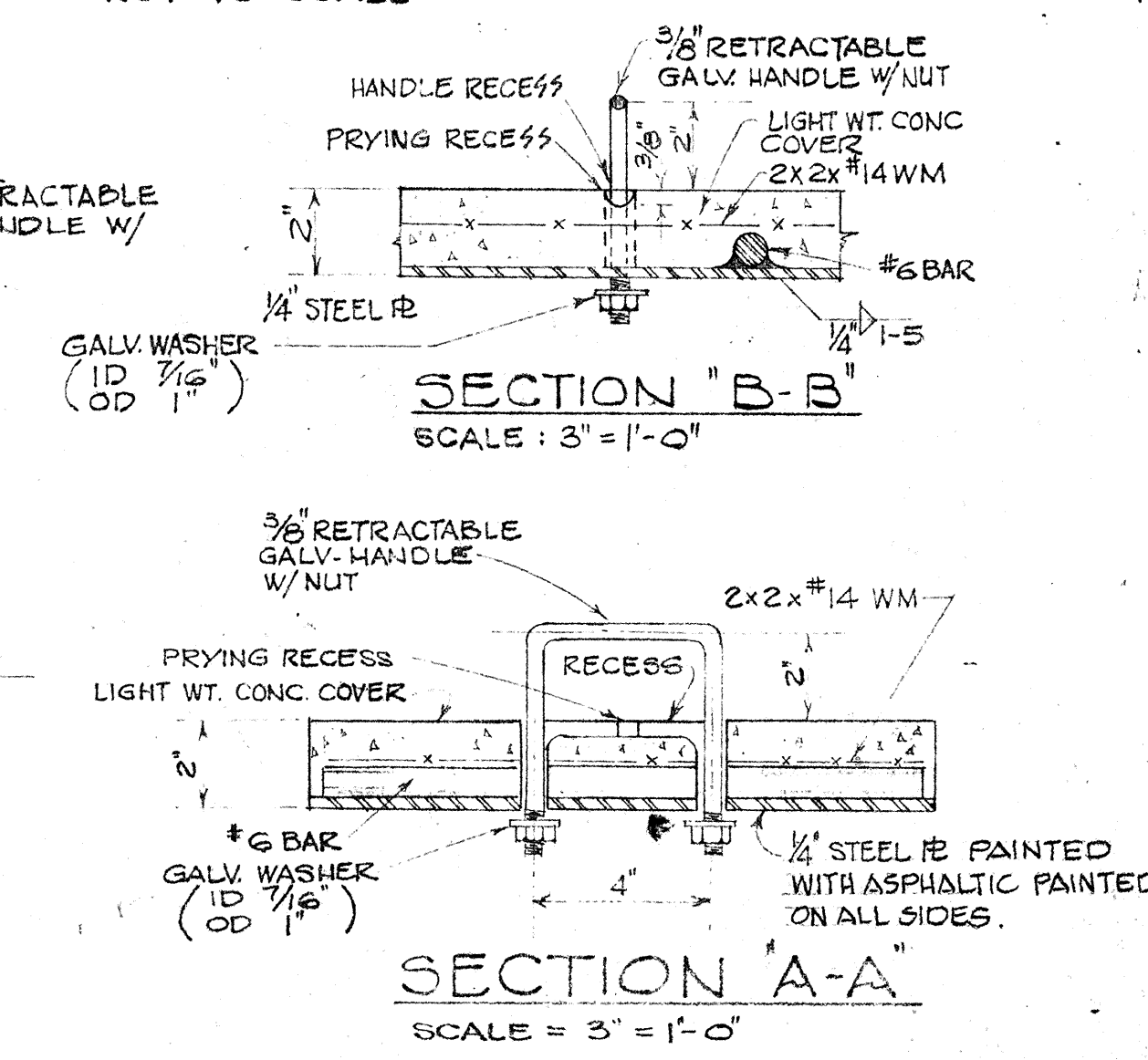
NOTE:
1. EXACT BOLT SPACING MUST BE APPROVED BY THE ENGINEER.
2. SEE PLAN FOR AMOUNT OF CONDUITS ENTERING EACH CONC. BASE

CONCRETE BASE DETAIL
NOT TO SCALE

POLE BASE DETAIL
NOT TO SCALE



PLAN

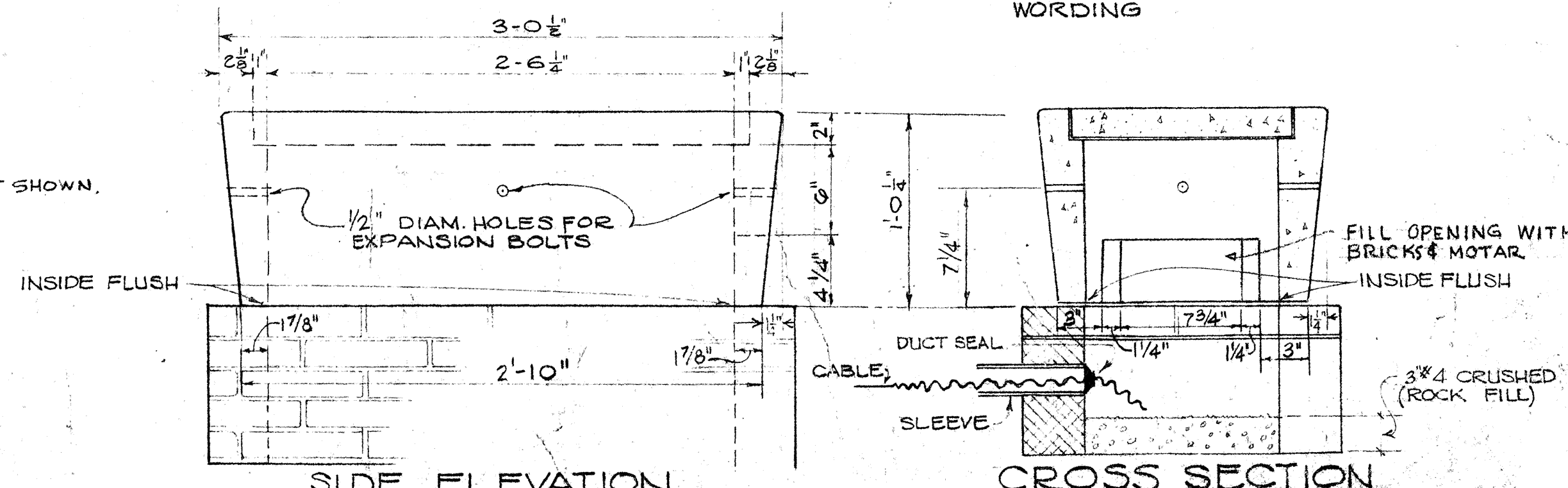


SECTION "B-B"
SCALE: 3" = 1'-0"

SECTION "A-A"
SCALE: 3" = 1'-0"

PULL BOX NOTE

SIMILAR TO H.T.CO. PULL BOX #434T EXCEPT FOR COVER WORDING



SIDE ELEVATION

CROSS SECTION

PULL BOX DETAILS
SCALE: 1 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING

FARRINGTON HIGHWAY
PROJECT NO. F-093-1(1)

SHEET No. 2 OF 4 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(1)	1974	26	27

NOTES:

- ALL STEEL SHAFTS, PL'S, MAST ARMS, BOLTS, SCREWS, NUTS & WASHERS TO BE GALV. AFTER FAB. OR MODIFICATION.
- PL'S TO CONFORM TO ASTM A-36.
- COST OPTION TO CONFORM TO ASTM A-486 CL. 90.
- TORQUE $\frac{7}{8}$ " H.S. SLIP BASE PL BOLTS TO 1000 INCH LBS.
- $\frac{7}{8}$ " H.S. ANCHOR BARS, WRENCH TIGHTEN - TORQUE REQUIREM'T. WAIVED.
- FABRICATORS ELECTING LARGER THAN MIN. ARM DIAMETERS MUST ADJUST DETAILS AS REQ'D TO PERMIT SOLID SEATING OF CAP SCREWS. IN LIEU OF TORQUE REQUIREM'TS FOR H.S. BOLTS, CAP SCREWS SHALL BE TIGHTENED BY THE TURN-OF-NUT METHOD $\frac{1}{8}$ TURN FROM SNUG TIGHT CONDITION. NO WASHER WILL BE REQ'D.
- 4" x 6 1/2" HANDHOLE REINFORCED W/ 3 GA. RING 1 1/2" WIDE WELDED TO OUTSIDE OF POLE COVER OF 10 GA. PL LOCATE 90 DEGREES OF MAST ARM UNLESS SHOWN. OTHERWISE SH. 7L & 9L.
- 20 GA. KEEPER PL, PLACE ON TOP OF MIDDLE FLAT WASHER ASTM A446 GR. "A".
- PLATE WASHER.
- 3-7/8" H.S. BARS, THREAD 6" & GALV. 10", W/ HEX HD NUT, LEVELING NUT & WASHER.
- HEX HD NUT SHOWN OR AS AN ALT. DET. ANCHOR PL'S MAY BE RETAINED W/ 5/16" FILLET WELDS. ALL ROUND OR FORMED HEADS.
- ROUND TAPERED STEEL TUBE W/ MAX. TAPER OF 0.15"/FOOT.
- NO. 11 GAGE SHEET STEEL OF WELDABLE GRADE ACCEPTABLE IF STEEL AFTER FABRICATION HAS A MIN. YIELD STRENGTH OF 40,000 PSI.
- 20 GA. KEEPER PL, PLACE ON TOP OF FLAT WASHER, A.S.T.M. A526, 12S COMMERCIAL.
- SLIP BASE INSERT DET. ON THIS SHEET APPLICABLE FOR POLE STDS. TALLER THAN 34'-0".

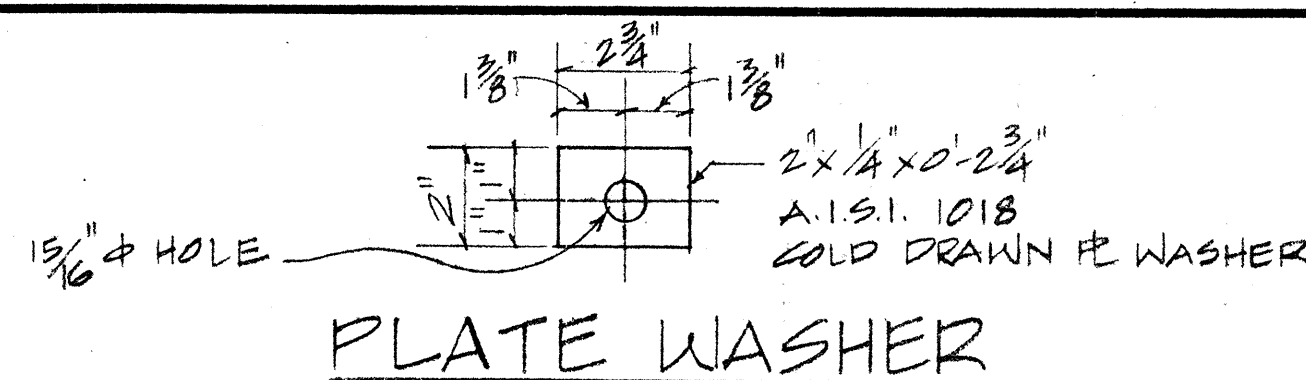
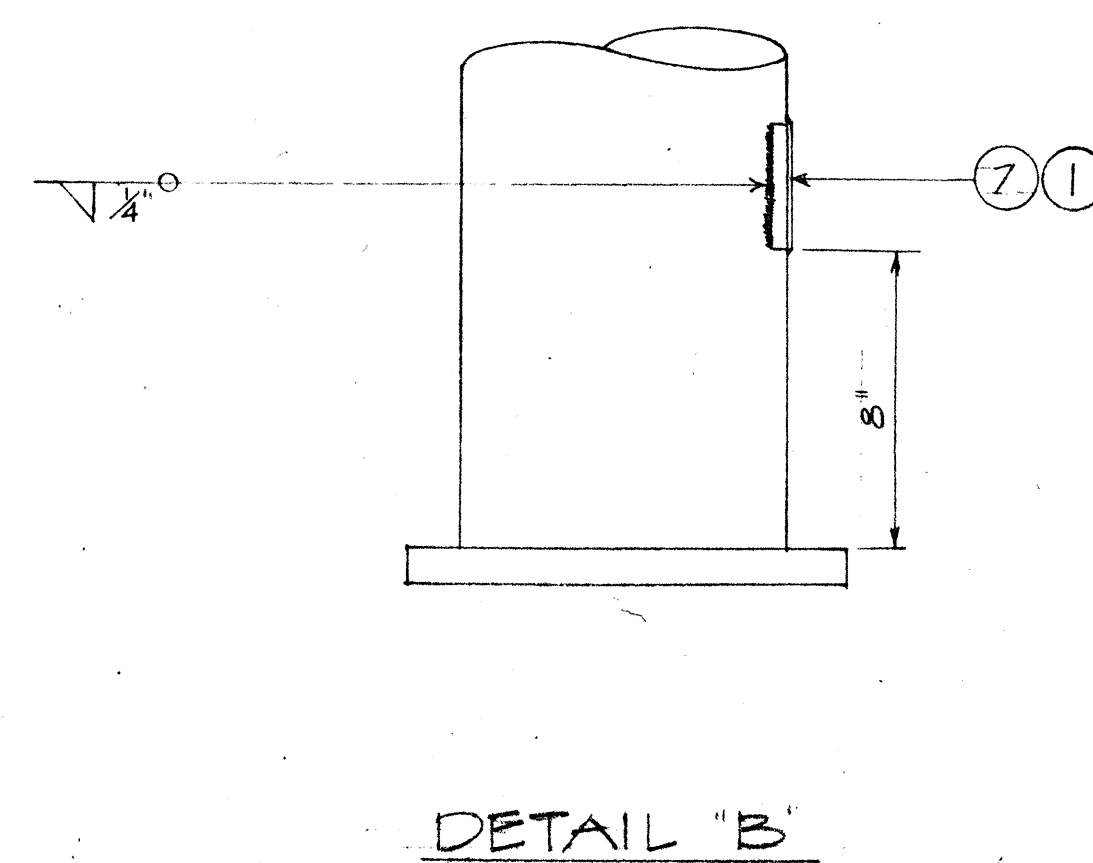
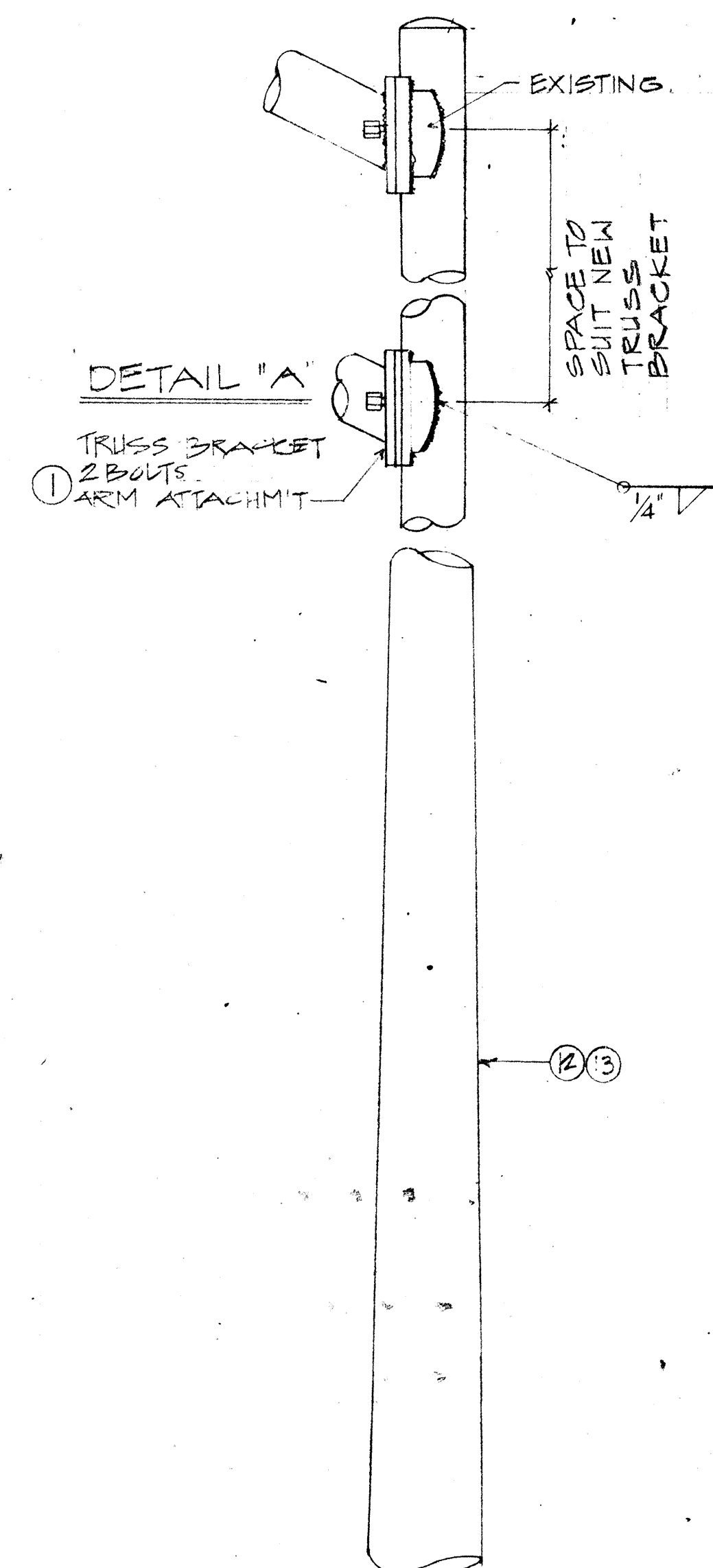
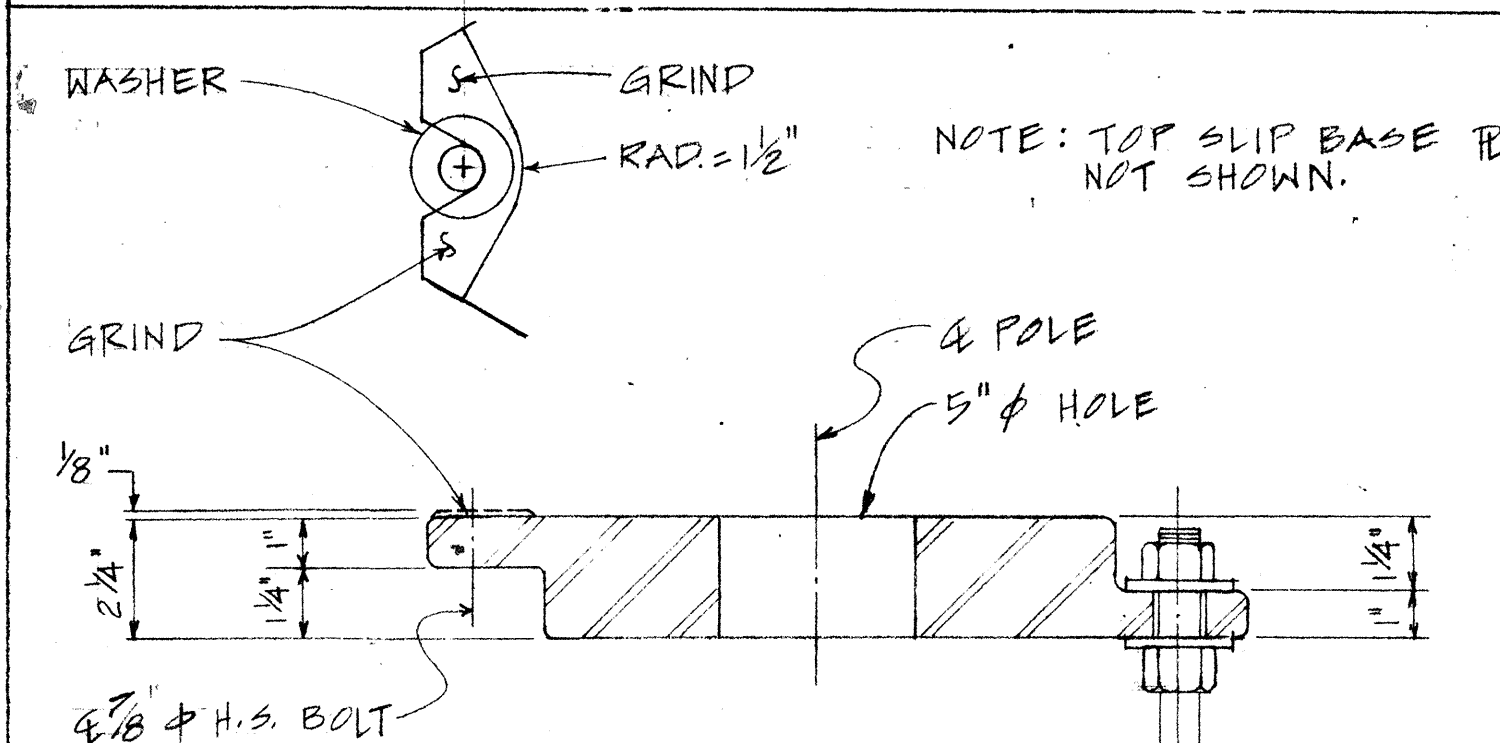
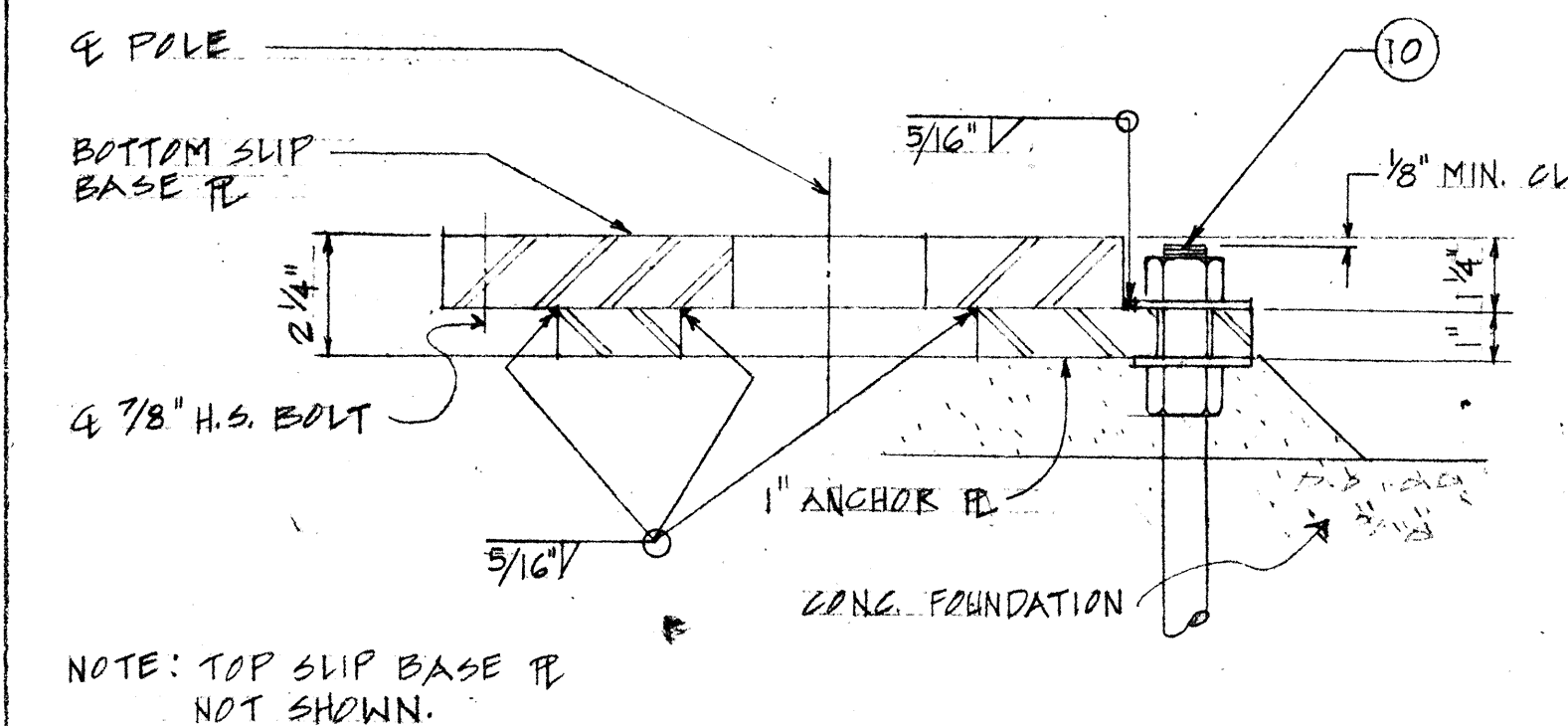


PLATE WASHER



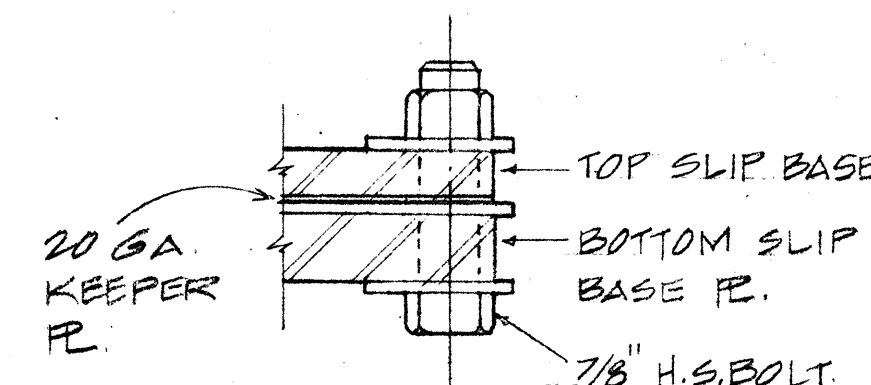
VIEW "E-E" CAST OPTION

SCALE: 3"=1'-0"

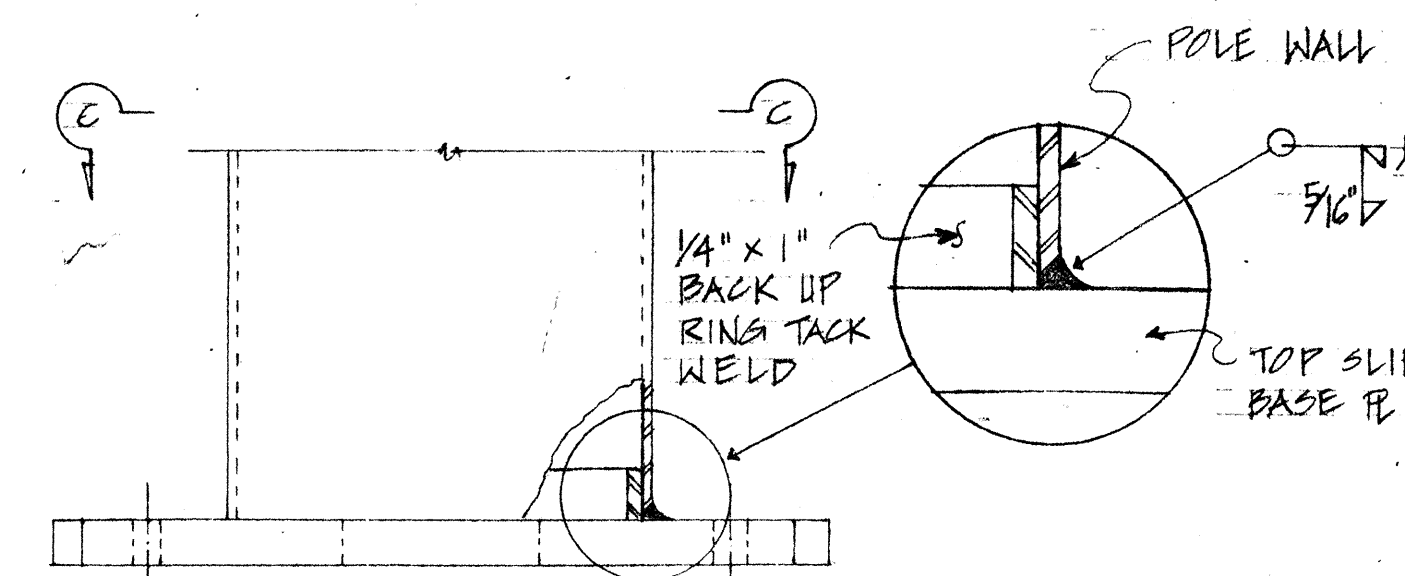
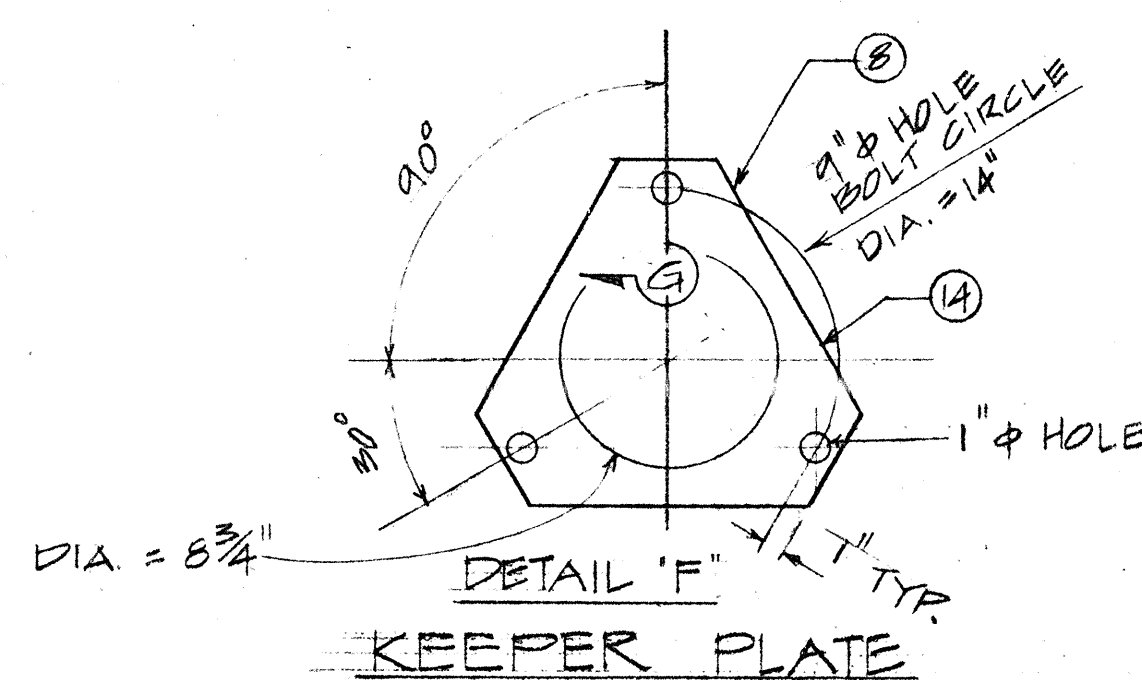


VIEW "E-E" WELDED OPTION

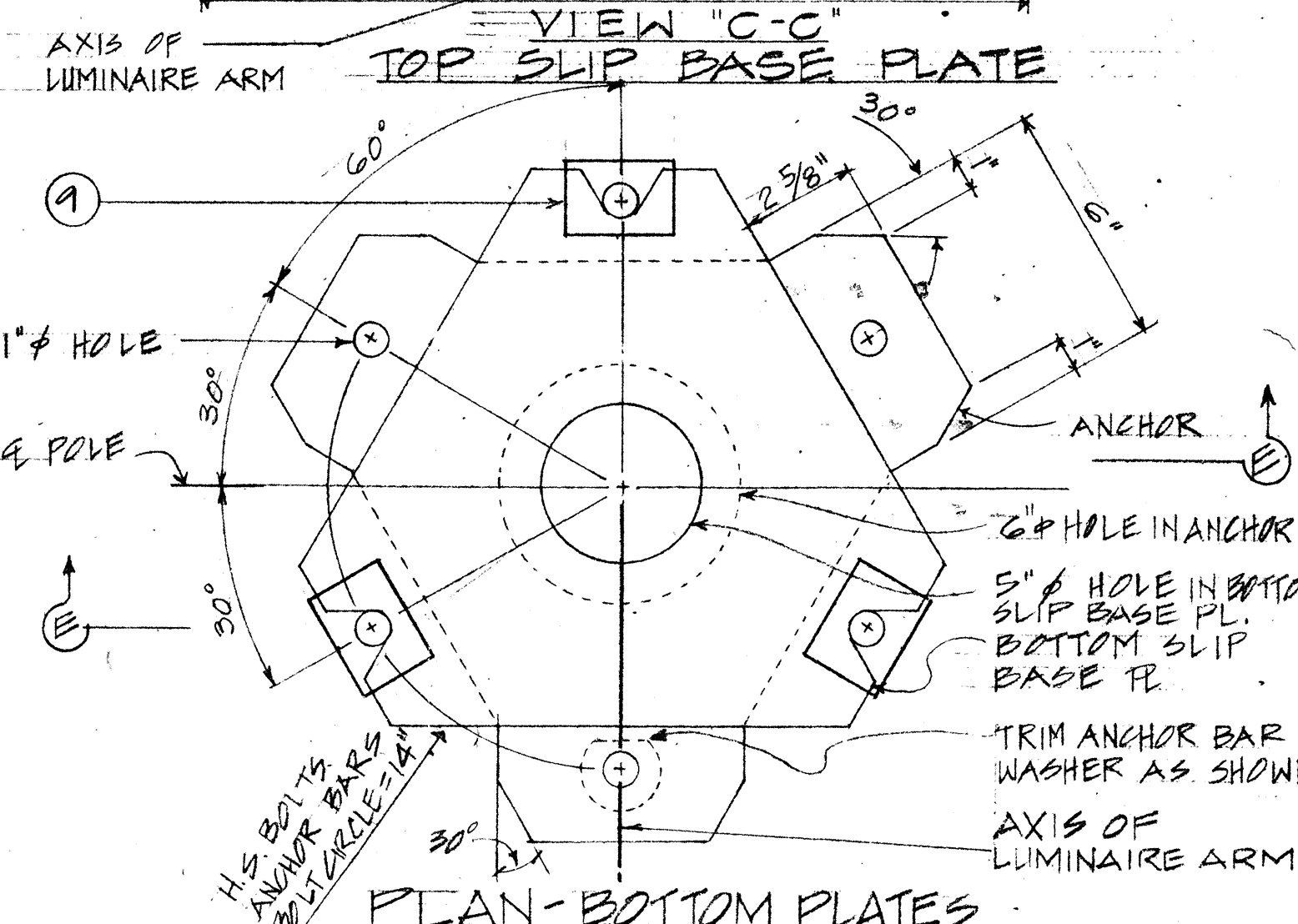
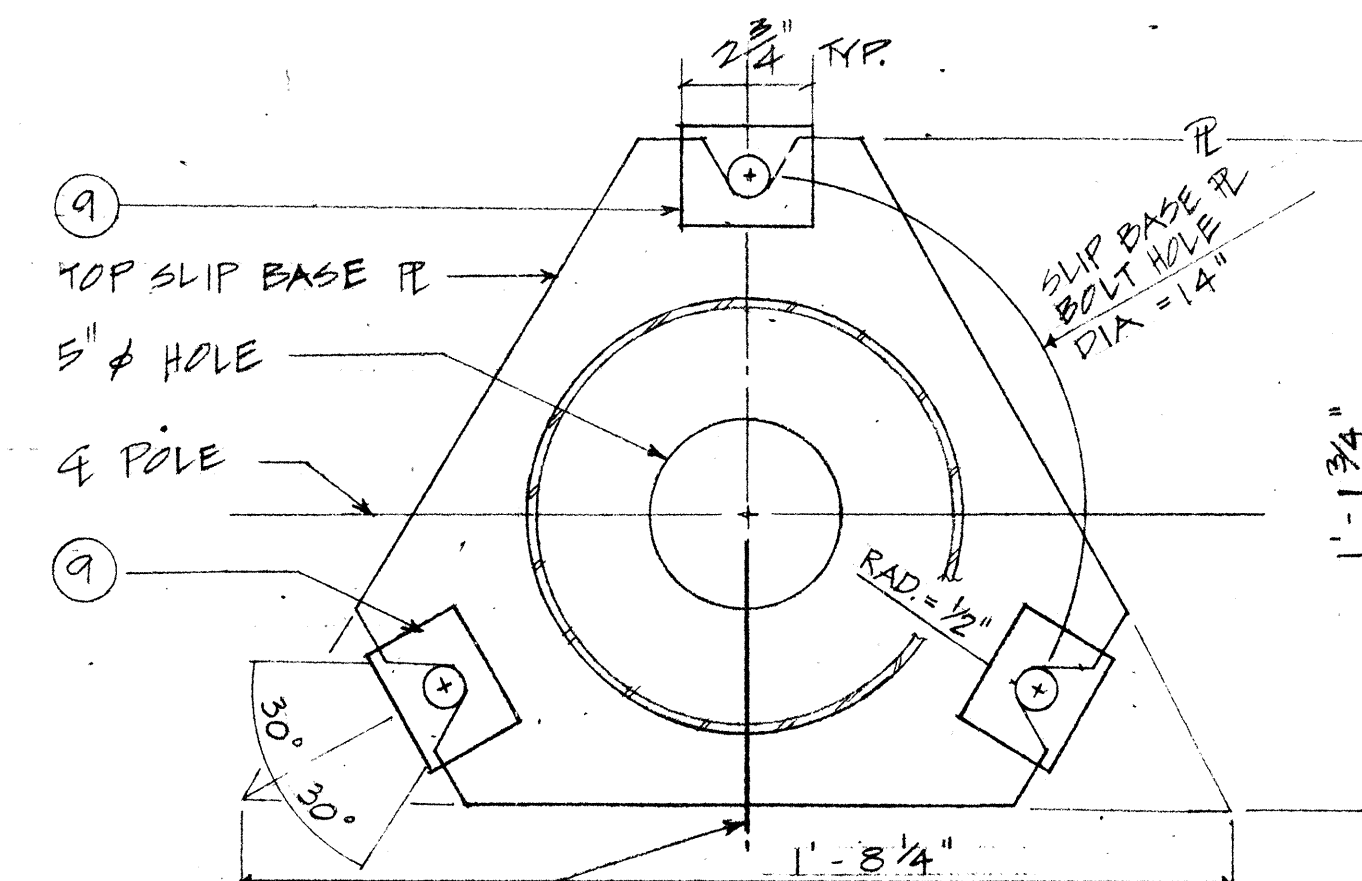
SCALE: 3"=1'-0"



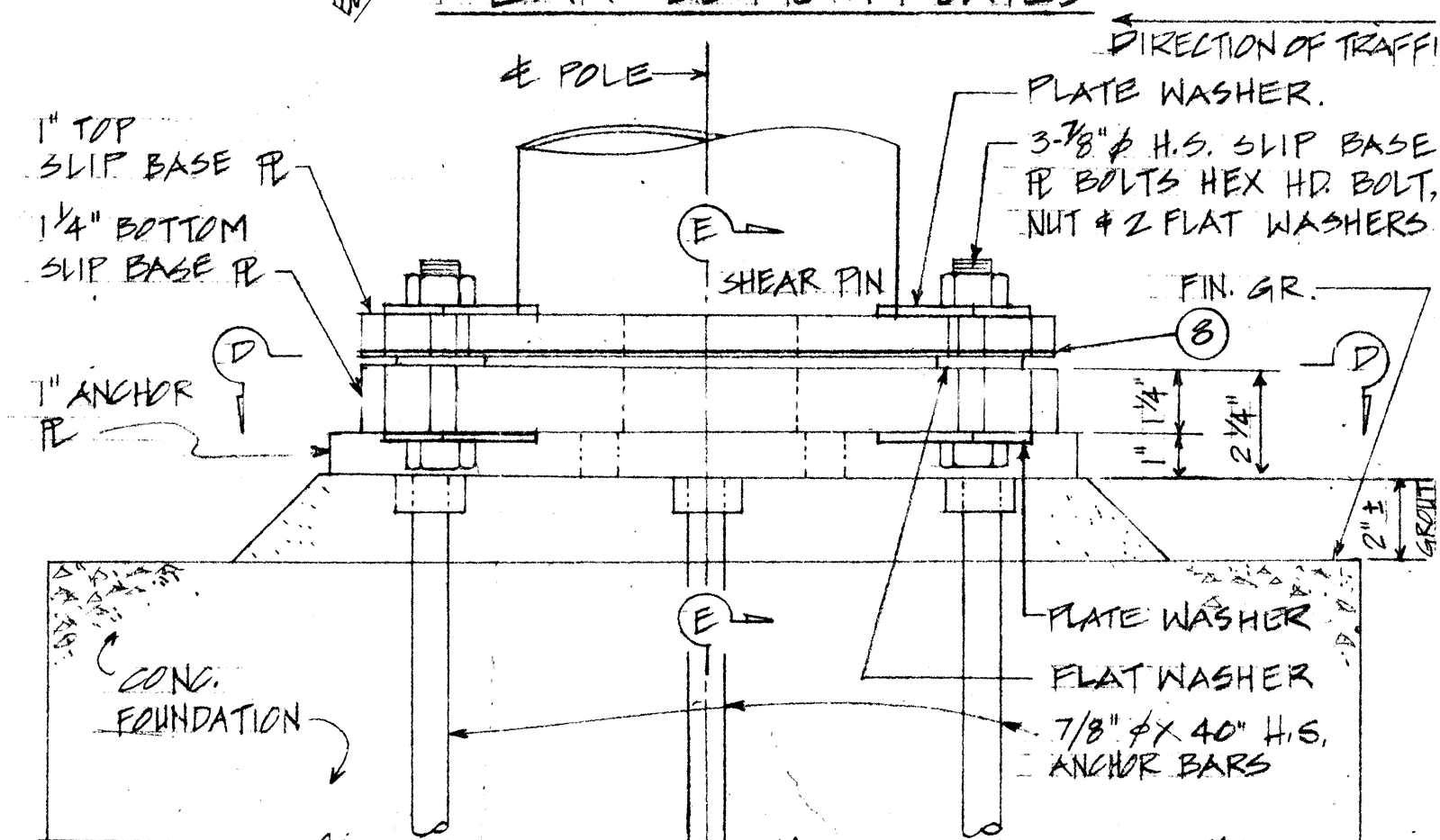
SECTION G-G



TOP SLIP BASE PLATE



PLAN - BOTTOM PLATES



BOTTOM SLIP BASE PLATE

SLIP BASE INSERT DETAIL

SCALE: 3"=1'-0" THIS DETAIL APPLICABLE TO POLES 34 FT. & HIGH REQUIRING SLIP BASE INSERTS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY LIGHTING
SLIP BASE INSERT AND
POLE MODIFICATION
SAFETY IMPROVEMENT

PROJECT NO. F-093-1(1)
SCALE AS NOTED

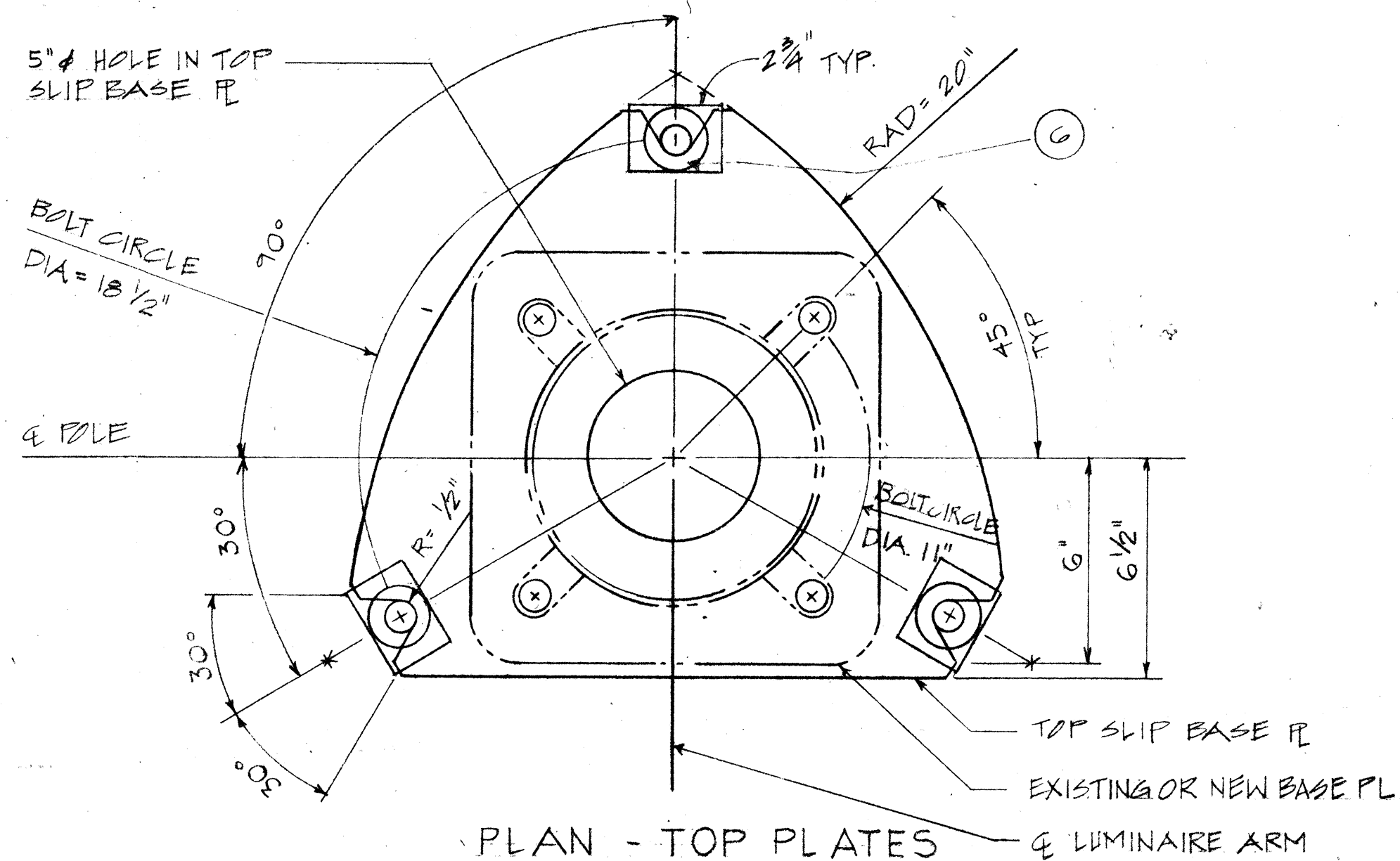
SHEET NO. 3 OF 4 SHEETS

26

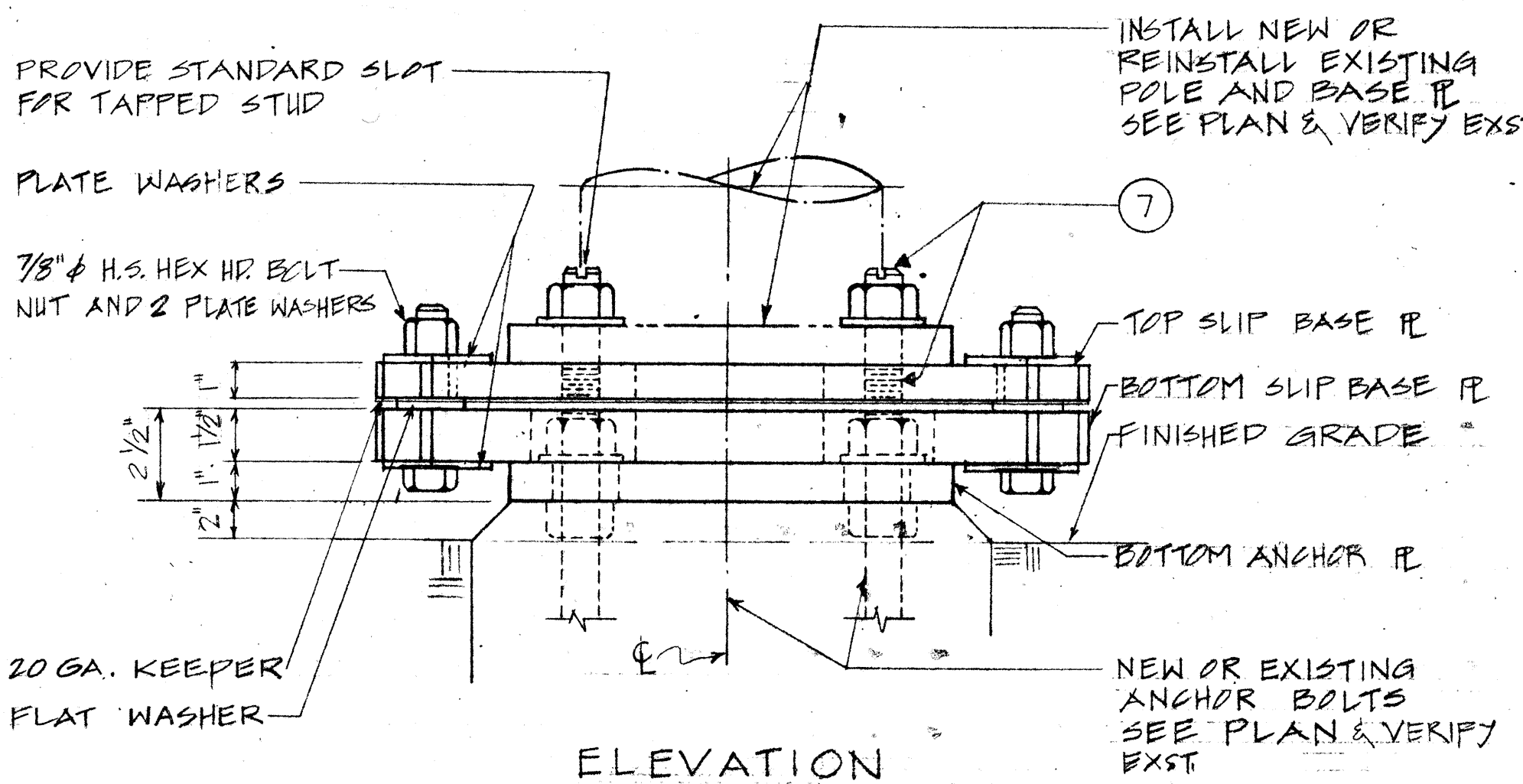
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(1)	1974	27	27

NOTES:

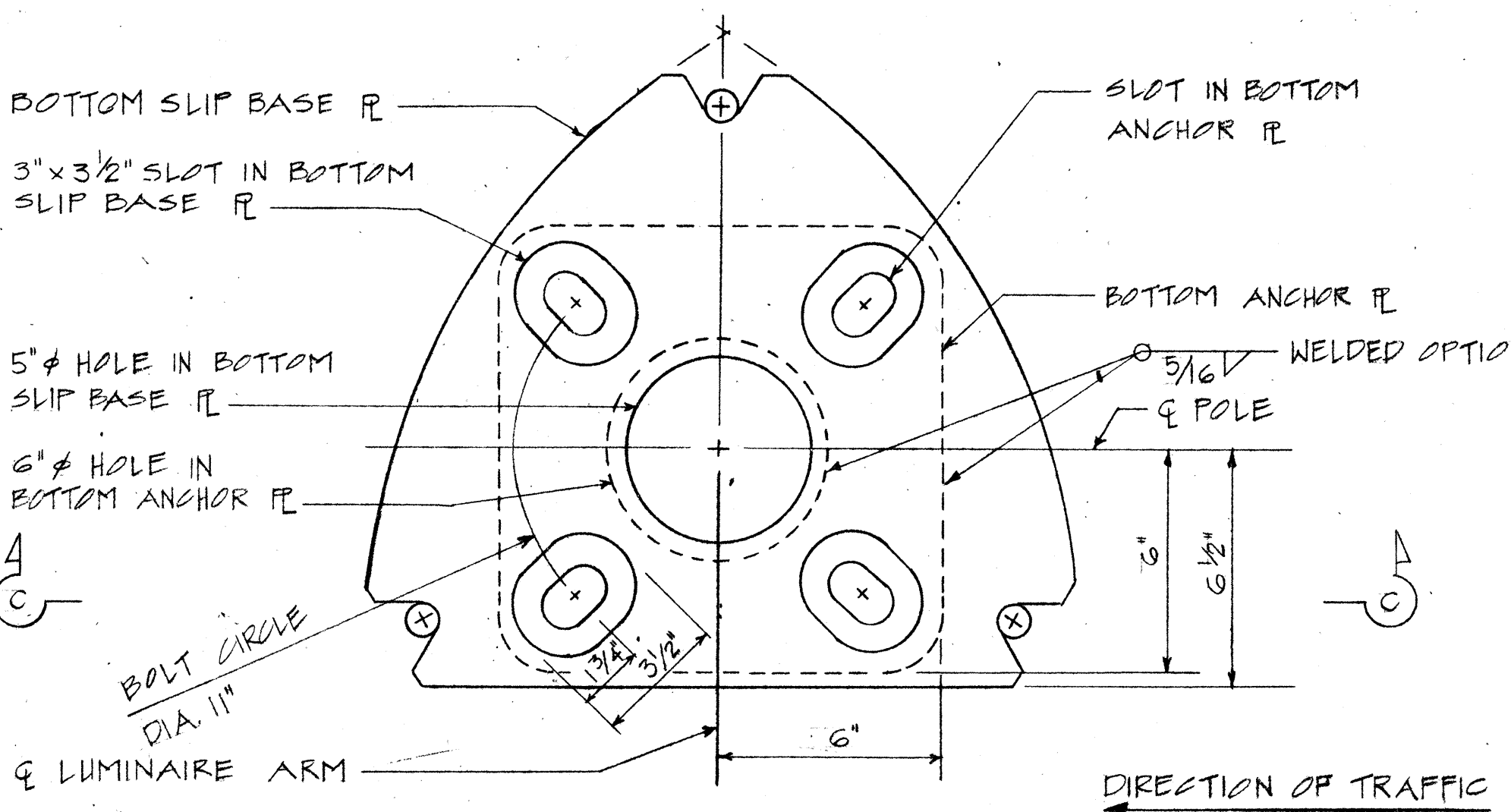
- ALL NEW MATERIAL TO BE GALV. AFTER FABRICATION.
- TORQUE 7/8" H.S. SLIP BASE PL. BOLTS TO 1000 INCH LBS.
- ALL SLOTS TO BE FILLED W/ MASTIC
- PL'S SHALL CONFORM TO A.S.T.M. A-36
- CAST OPTION SHALL CONFORM TO A.S.T.M. A-486 CL. 90.
- FLAT WASHER SHALL CONFORM TO A.S.T.M. A-325.
- 1" DRILLED & TAPPED STUD IN TOP SLIP BASE PL. INSERT STUD & CENTER PUNCH @ BOTTOM PERIPHERY TO LOCK TAPPED BOLT IN PLACE PRIOR TO GALV. OR 1" THREADED STUDS CONN. W/ FULL PENETRATION BUTT WELD.
- 20 GA. KEEPER PL. PLACE ON TOP OF MIDDLE FLAT WASHER A.S.T.M. A325, 199 COMMERCIAL
- FOR MULTIPLE CKT. POLE, USE 1" DIA. BOLT CIRCLE SLIP BASE PL. INSERT DETAILS.
- WHERE SLIP BASE IS REQUIRED FOR EXST. SERIES CKT. POLE THAT IS NOT RELOCATED, USE 15" DIA. BOLT CIRCLE SLIP BASE PL. INSERT, REMOVE TRANSFORMER BASE AND PROVIDE HANDHOLE IN SHAFT PER DETAIL ON SHEET 15L MOUNT POLE DIRECTLY ON SLIP BASE PLATE.



PLAN - TOP PLATES



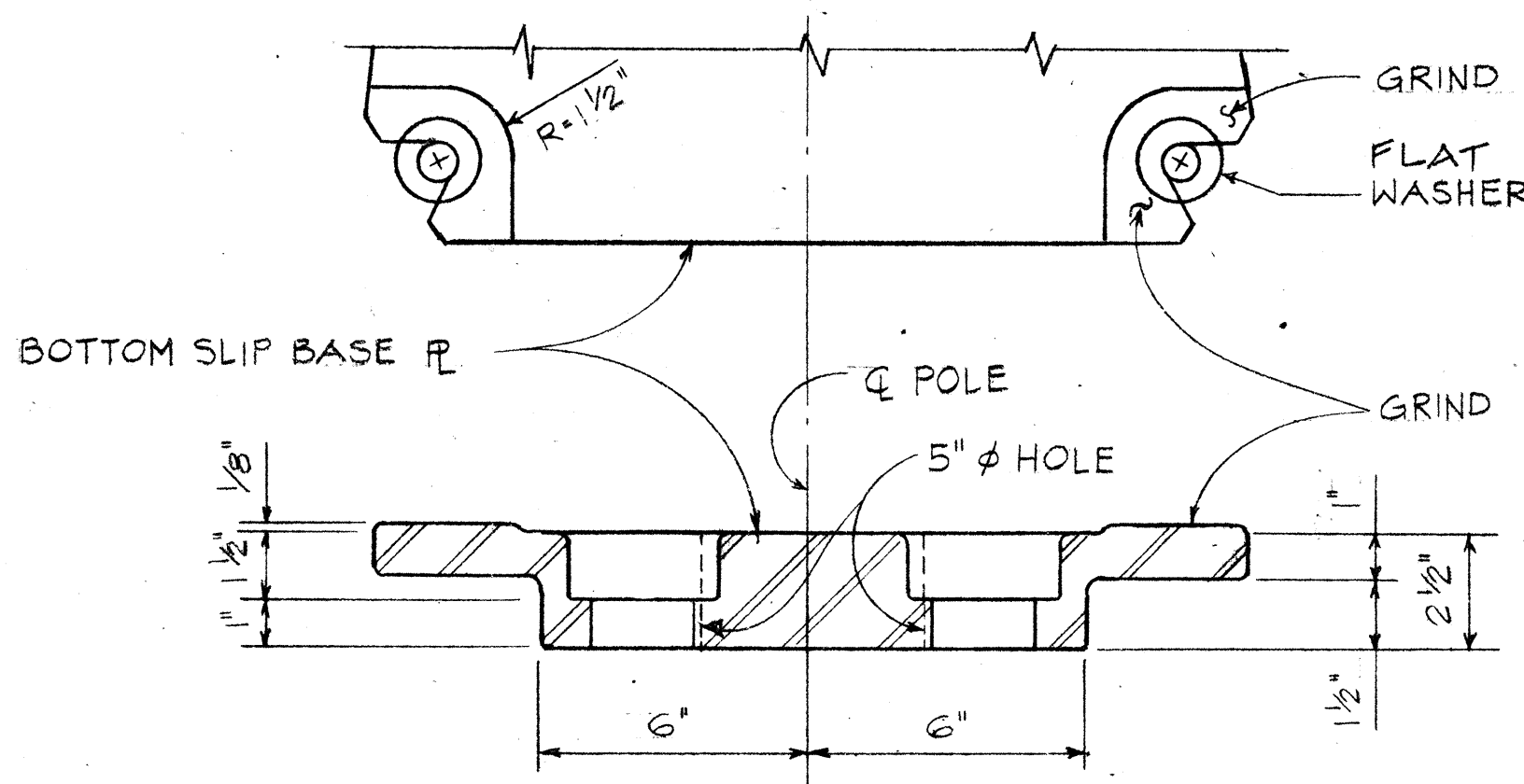
ELEVATION



PLAN - BOTTOM PLATES

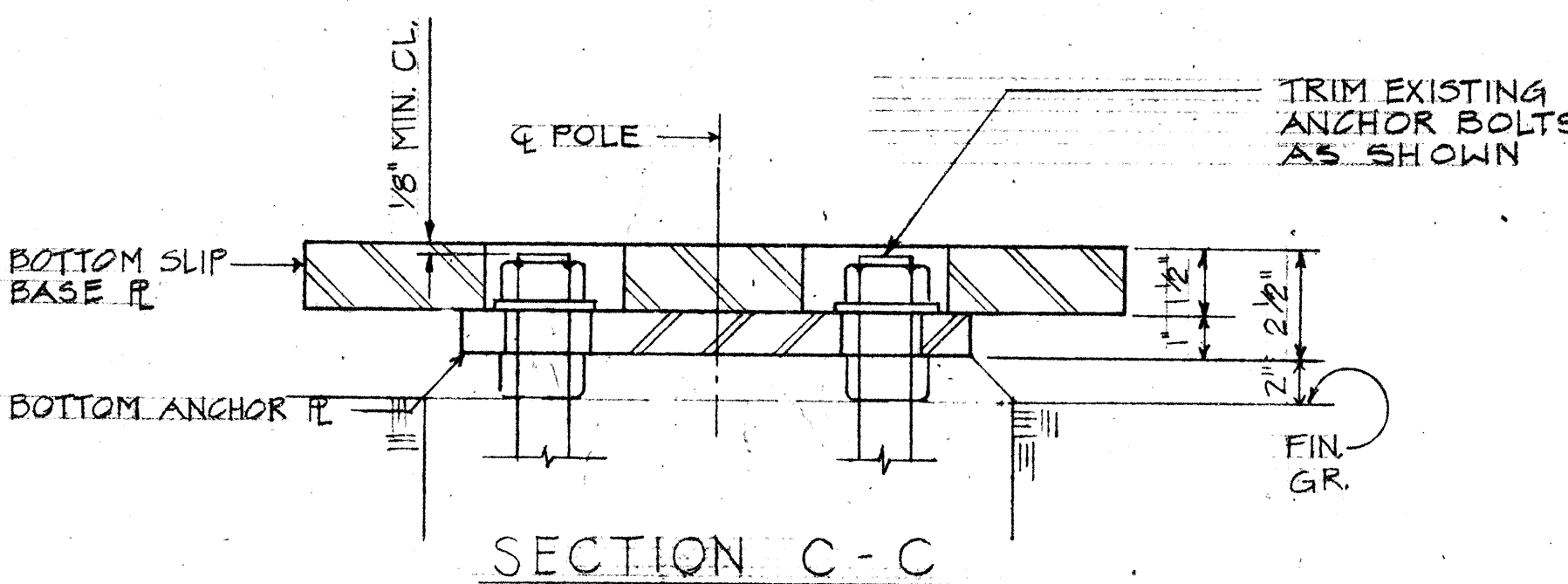
NOTE: THIS DETAIL APPLICABLE TO POLE REQUIRING SLIP BASE INSERT. SEE NOTE #9.

SLIP BASE PL. INSERT DETAILS



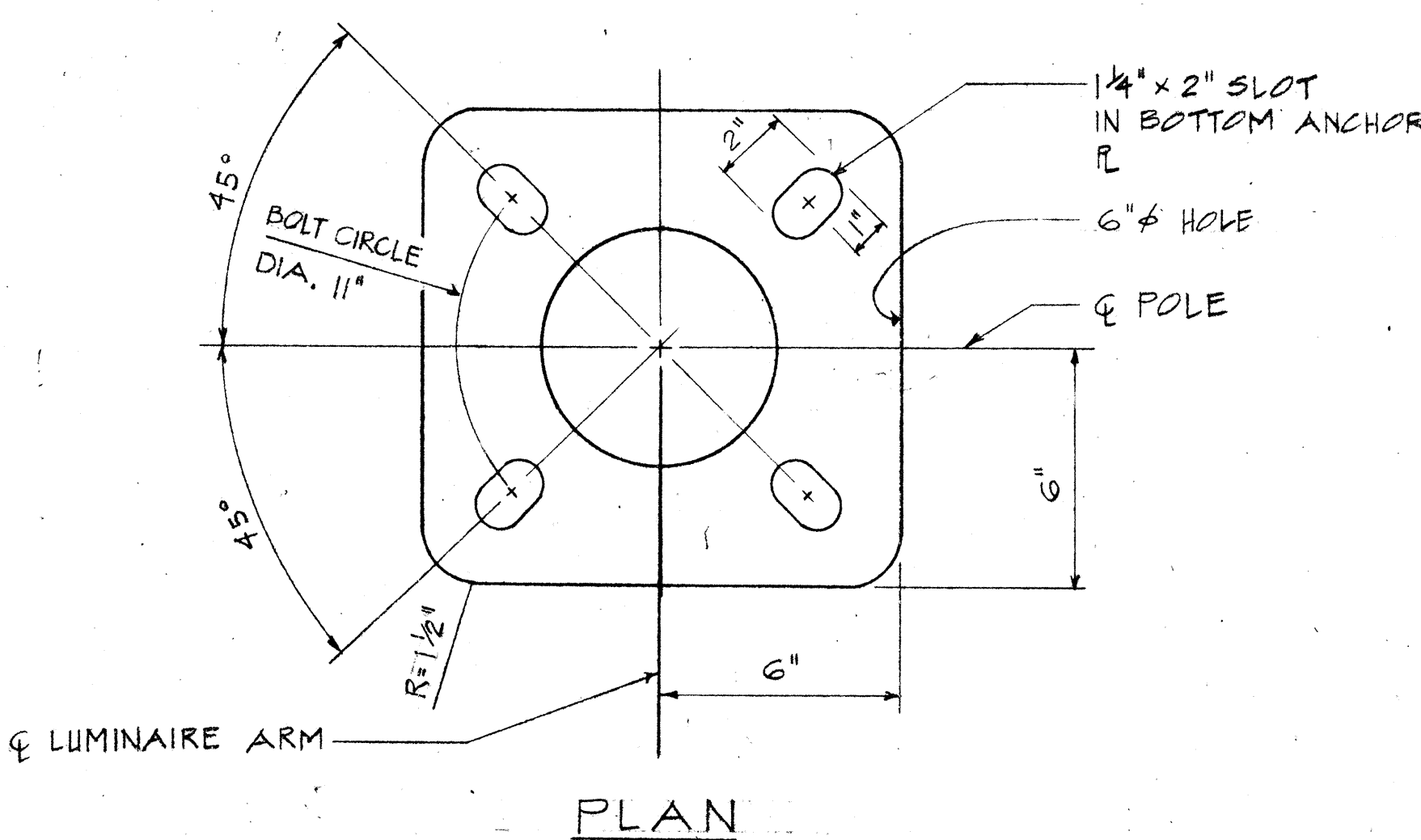
SECTION C-C

CAST OPTION



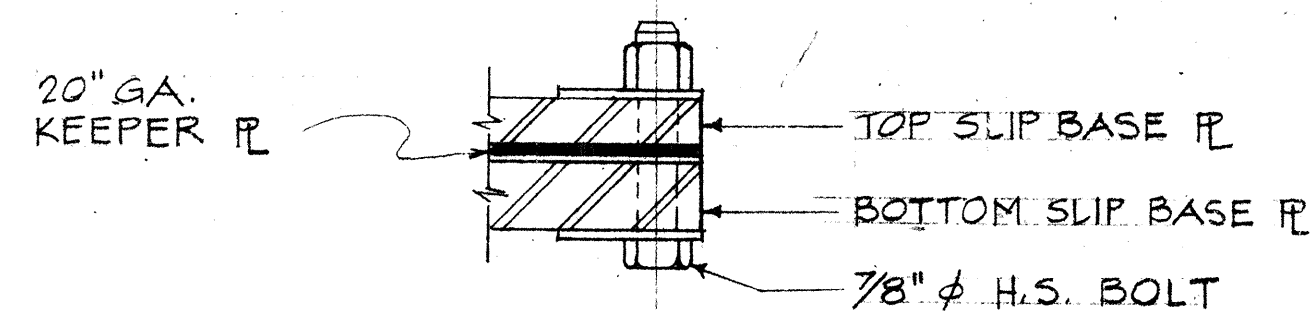
SECTION C-C

WELDED OPTION

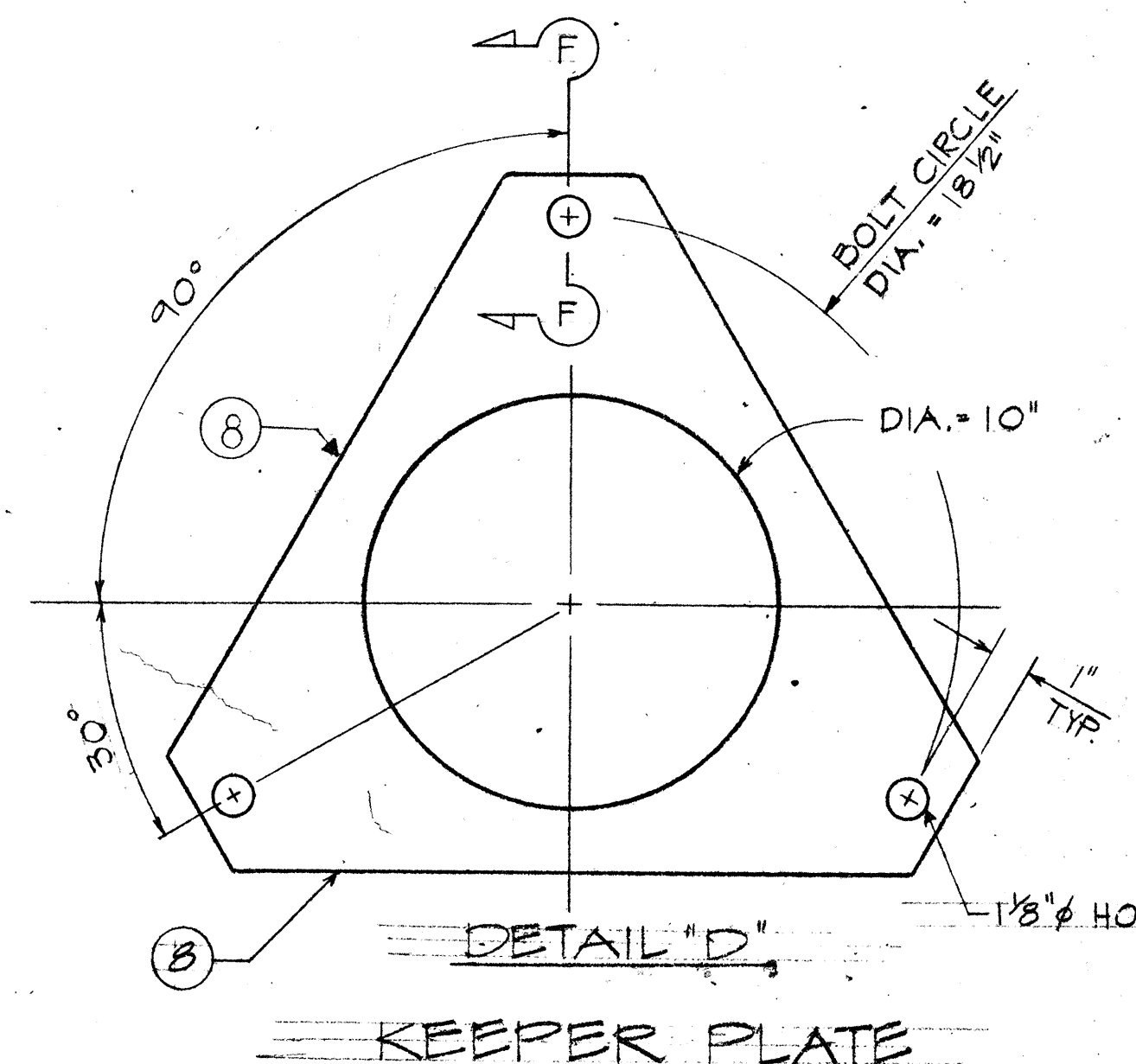


PLAN

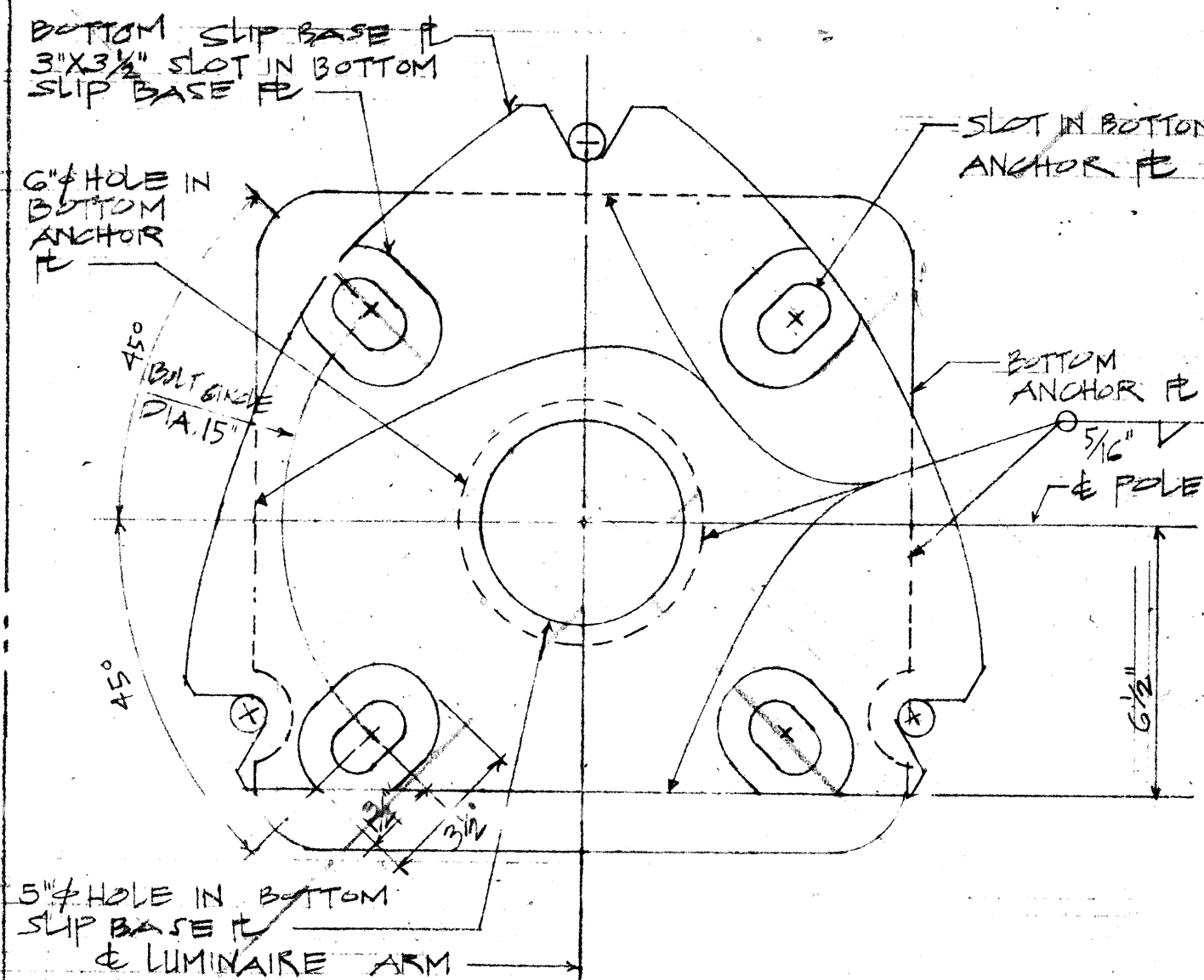
BOTTOM ANCHOR PL. DETAILS



SECTION F-F



KEEPER PLATE



BOTTOM PLATES
15" DIA. BOLT CIRCLE SLIP BASE
PLATE INSERT DETAIL

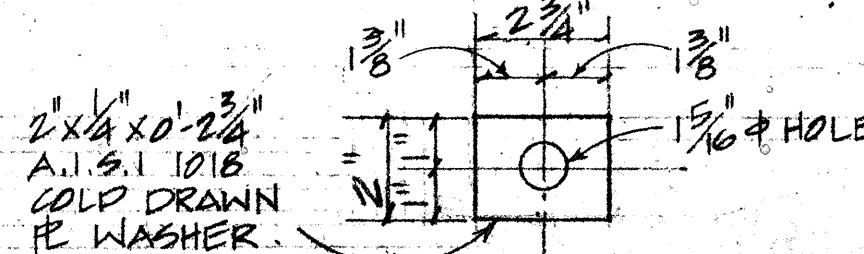


PLATE WASHER

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SLIP BASE INSERT STANDARD
SAFETY IMPROVEMENT

F.A. PROJECT NO. F-093-1(1)

SCALE AS NOTED

DATE Oct, 1973

SHEET NO. 4 OF 4 SHEETS

28

27