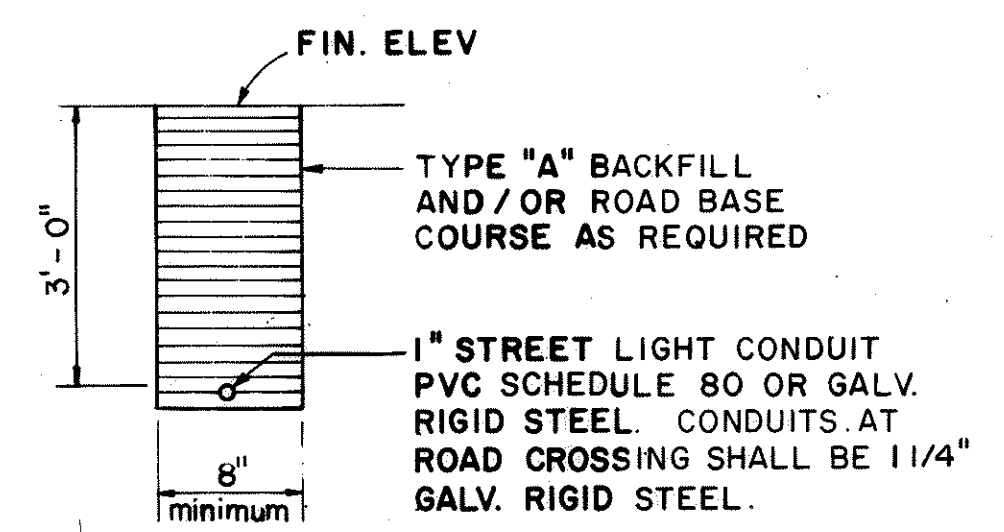
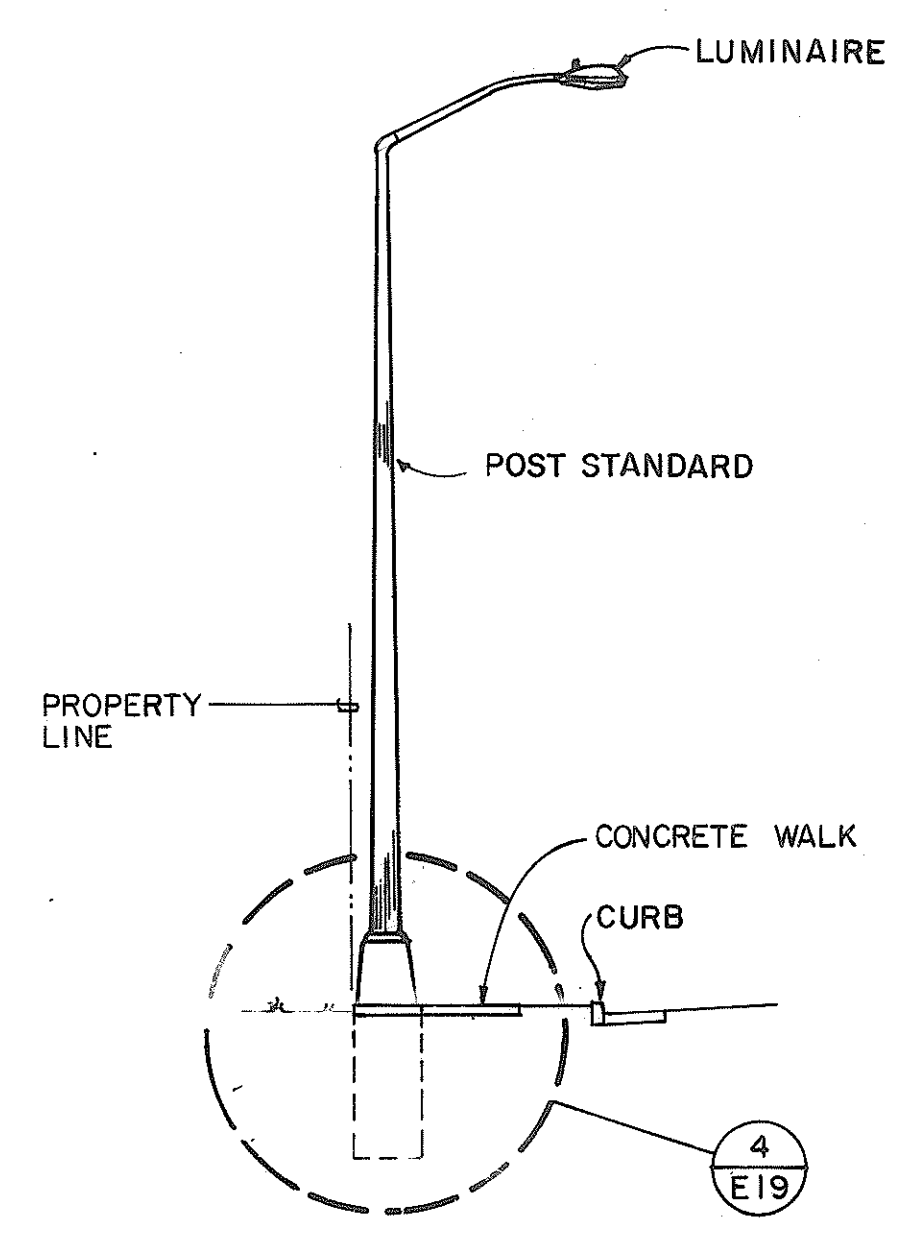


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92A-03-86	1988	20	23



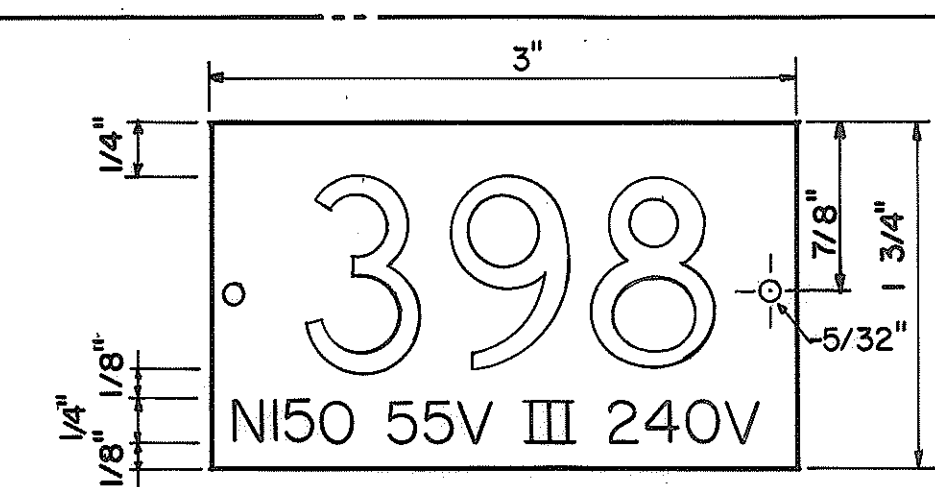
NOTE:
MAINTAIN 1'-0" SEPARATION BETWEEN STREET LIGHTING AND ELECTRIC OR COMMUNICATIONS.

5 TYP. STREET LIGHTING RACEWAY SECTION NOT TO SCALE



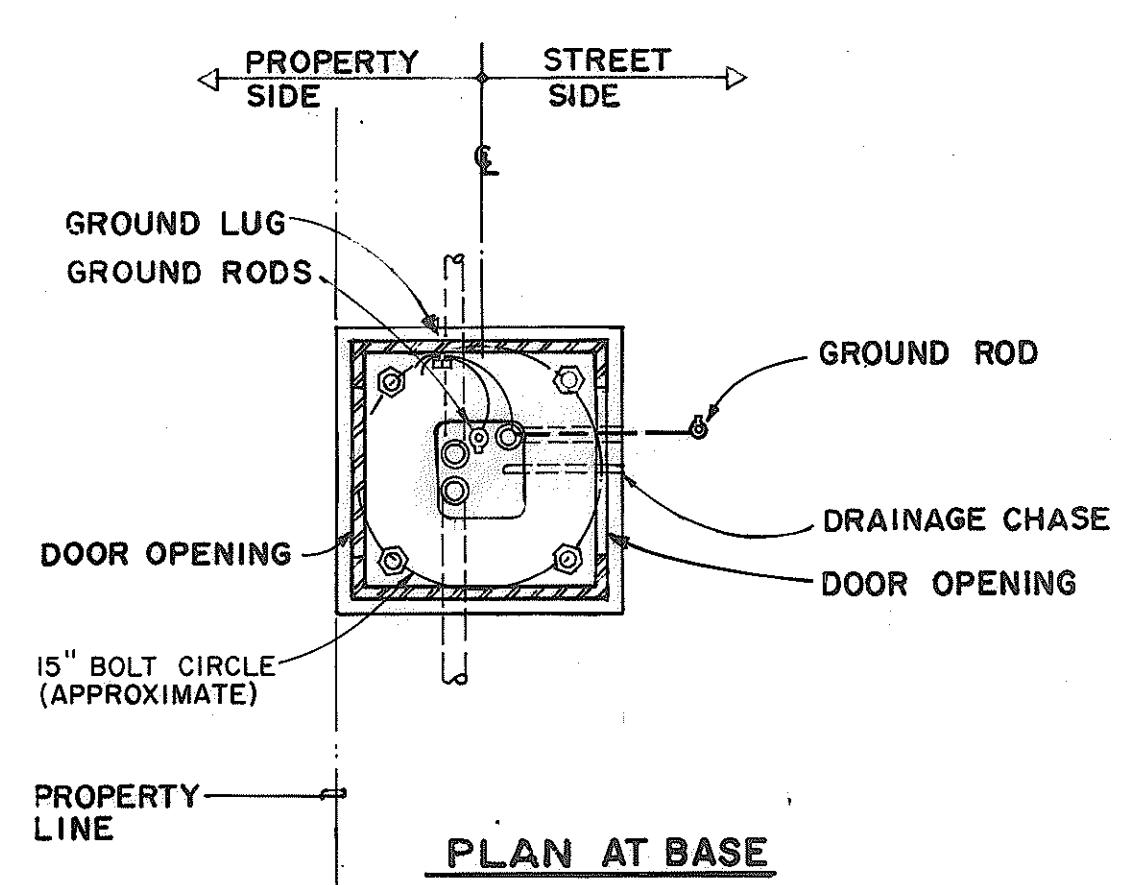
ELEVATION

1 LUMINAIRE POST STANDARD NOT TO SCALE

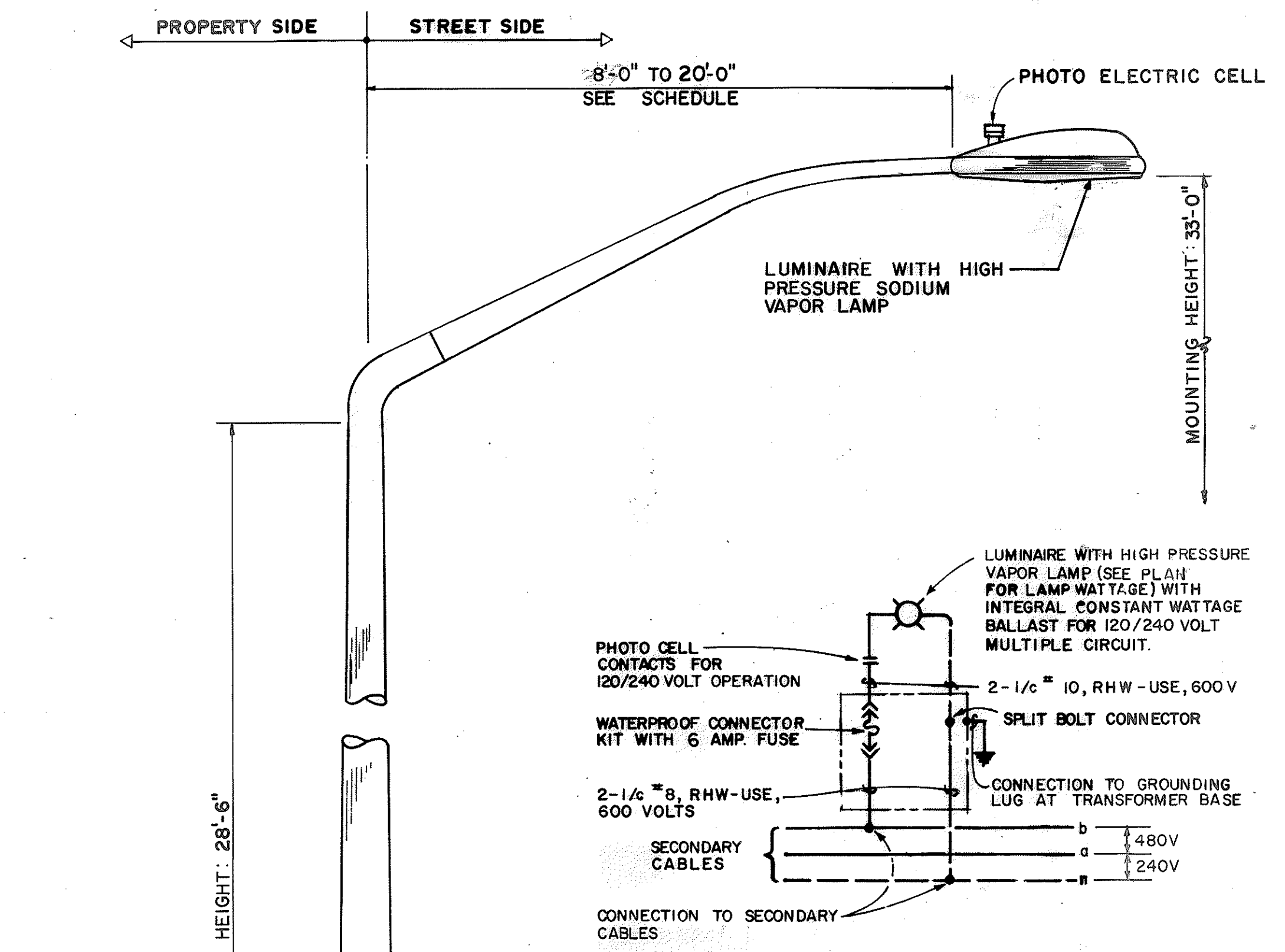


- NOTES:**
- USE 3 PLY PLASTIC - BLACK, WHITE, BLACK.
 - NUMBER SIZE SHALL BE 1" HIGH ENGRAVED 1/8" WIDE, WHITE IN COLOR (NUMBER AS REQUIRED)
 - NOMENCLATURE SIZE SHALL BE 1/4" HIGH AND ENGRAVED 1/32" WIDE - WHITE IN COLOR (WATTAGE, IES DISTRIBUTION, AND VOLTAGE AS REQUIRED)
 - ATTACH TO POLES WITH NO. 7 CADMIUM PLATED DRIVE SCREWS.
 - USED "H" FOR MERCURY VAPOR AND "N" FOR SODIUM LAMPS.

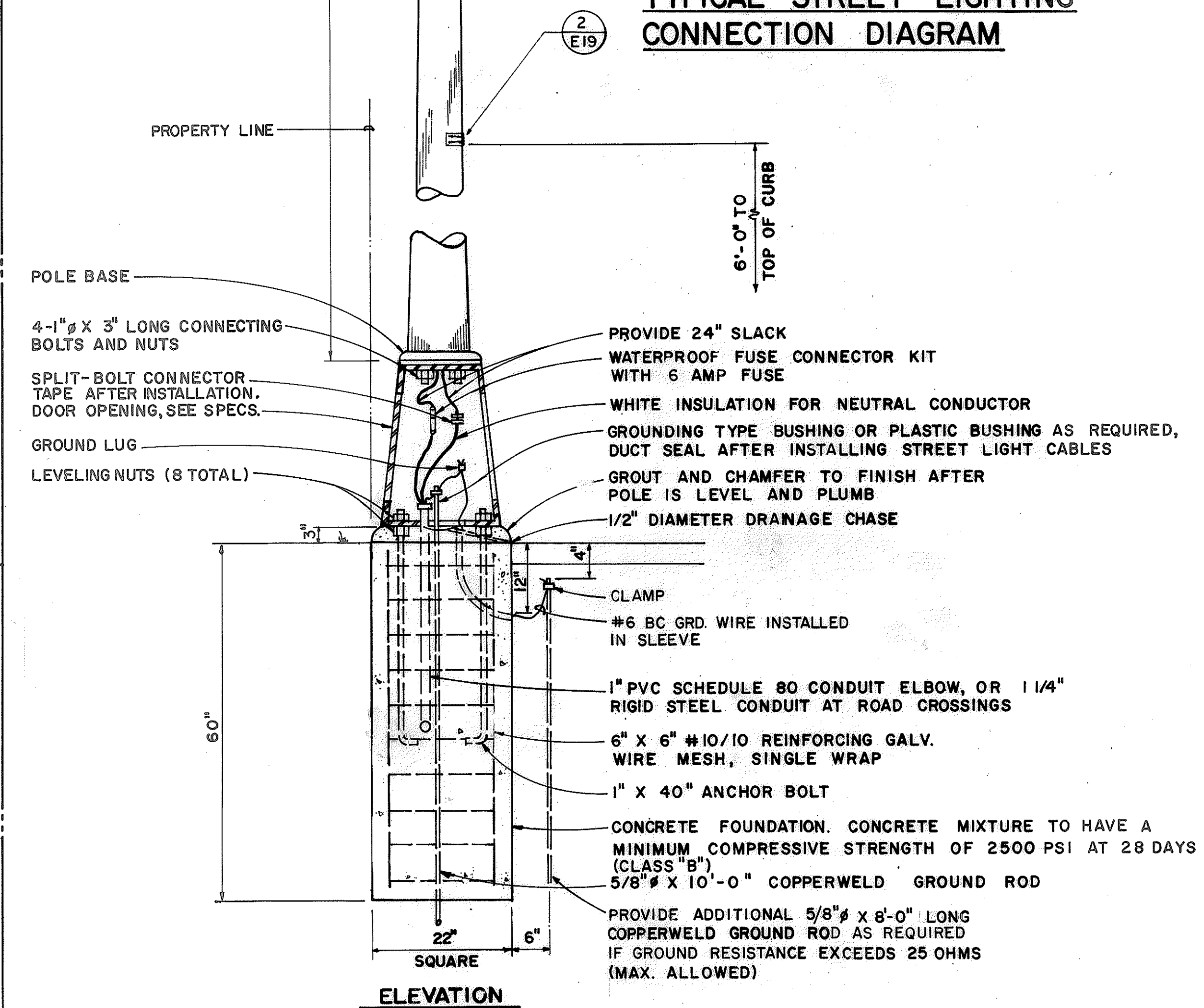
2 IDENTIFICATION TAG FOR MULTIPLE STREET LIGHTING NOT TO SCALE



3 PLAN SECTION OF POST STANDARD NOT TO SCALE



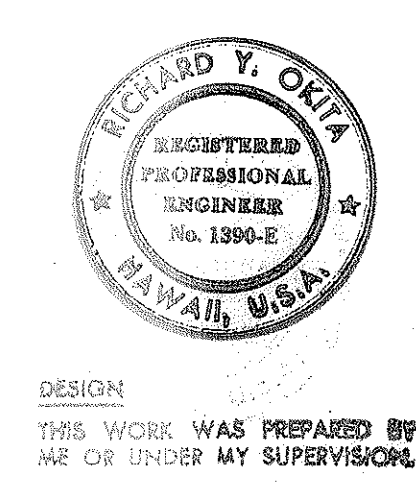
TYPICAL STREET LIGHTING CONNECTION DIAGRAM



4 LUMINAIRE POST STANDARD DETAIL NOT TO SCALE

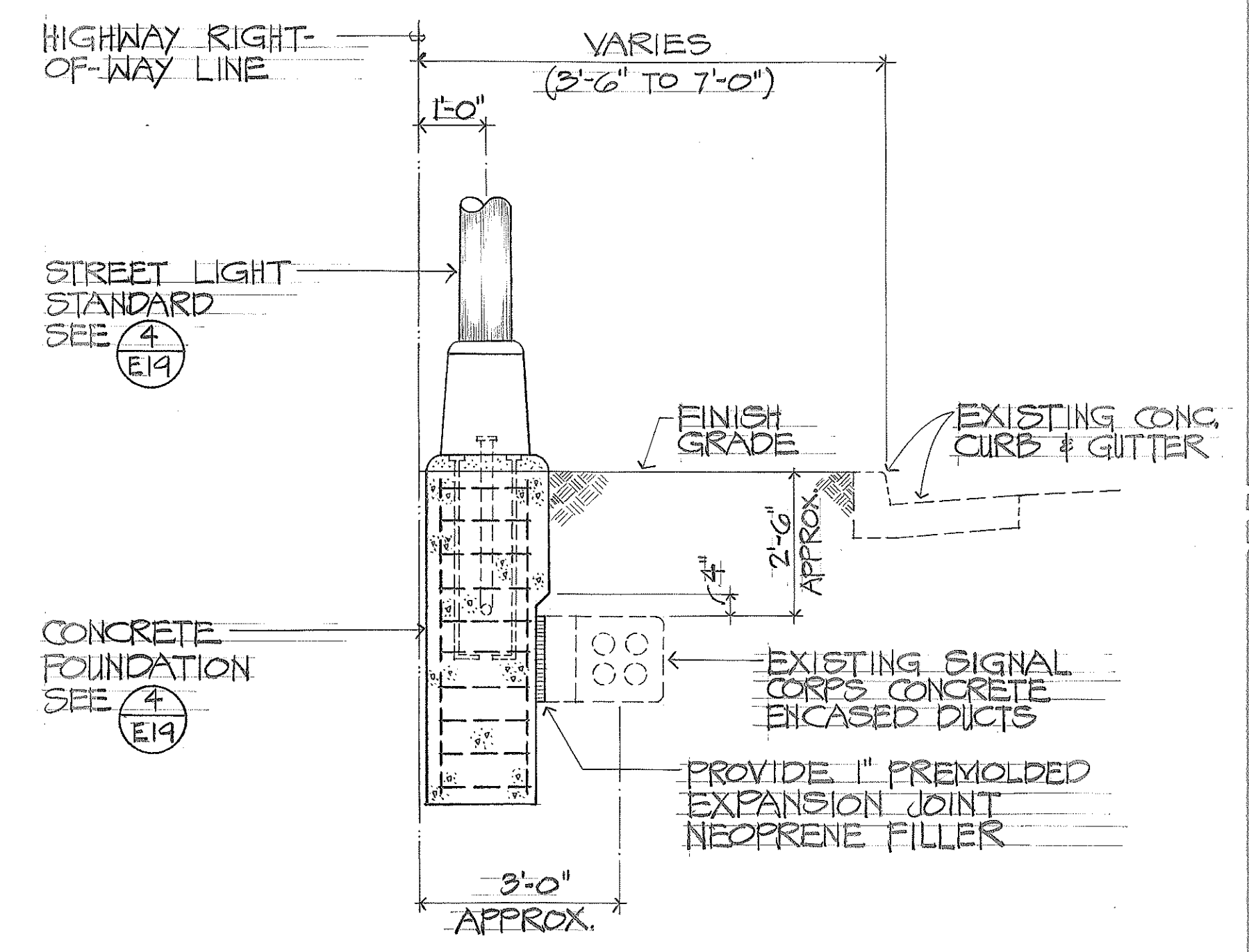
STREET LIGHTING NOTES:

- STREET LIGHT SYSTEM FOR THIS PROJECT SHALL BE UNDER HAWAIIAN ELECTRIC COMPANY INC. CONTRACT NO. _____
- STREET LIGHT NUMBERS FOR THIS PROJECT SHALL BE _____ TO 207, INCLUSIVE.
- ALL SECONDARY CIRCUIT EXTENSIONS TO H.E.CO. SECONDARY CABLES SHALL BE PROVIDED BY CONTRACTOR. CONNECTIONS SHALL BE BY H.E.CO. AND PAID FOR BY CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND INFORMING H.E.CO. OF STREET LIGHT LOCATIONS ON PROJECT SITE PRIOR TO INSTALLATION OF H.E.CO. SECONDARY CABLES.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WORK WITH CONST. & MAINT. SVCS., DEPT. OF TRANSPORTATION, STATE OF HAWAII 72 HOURS IN ADVANCE OF COMMENCING INSTALLATION OF STREET LIGHT SYSTEM. (PHONE NO. 548-7587)
- ALL LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR TYPE WATTAGE AND IES TYPE LIGHT DISTRIBUTION AS SHOWN ON PLAN.
- FOR TYPICAL CONSTRUCTION DETAILS SEE THIS SHEET. ALSO REFER TO APPLICABLE STANDARD DETAILS OF CONSTRUCTION & MAINTENANCE SERVICES, DEPARTMENT OF TRANSPORTATION, STATE OF HAWAII.
- CONTRACTOR SHALL STENCIL DATE OF INSTALLATION ON BOTTOM OF PHOTO-CELL.
- LUMINAIRE AND POLE COUNT. POLES: LUMINAIRES:
- CONTRACTOR SHALL MAINTAIN ONE SET OF APPROVED PLANS AT PROJECT SITE AT ALL TIMES DURING CONSTRUCTION WORK.
- CONTRACTOR SHALL ARRANGE WITH H.E.CO. TO ENERGIZE STREET LIGHTS A MINIMUM OF 6 HOURS FOR FINAL INSPECTION AND ACCEPTANCE. CONTRACTOR SHALL PAY FOR ALL COSTS OF TESTING.
- FINAL ACCEPTANCE INSPECTION WILL BE UNDERTAKEN ONLY AFTER ALL WORK HAS BEEN COMPLETED AND THE "AS-BUILT" TRACINGS HAVE BEEN SUBMITTED TO THE CONST. & MAINT. SVCS., DEPT. OF TRANSPORTATION, STATE OF HAWAII.
- AFTER COMPLETION OF FINAL INSPECTION WITH ENGINEER AND STATE OF HAWAII, CONTRACTOR SHALL OBTAIN WRITTEN ACCEPTANCE OF STREET LIGHT SYSTEM FROM CONSTRUCTION & MAINTENANCE SERVICES, DEPARTMENT OF TRANSPORTATION, STATE OF HAWAII.
- CONTRACTOR TO MEASURE GROUND RESISTANCE AT EACH STANDARD. RECORD SAME AND SUBMIT TO CONSTRUCTION AND MAINTENANCE SERVICES, DEPARTMENT OF TRANSPORTATION, STATE OF HAWAII.

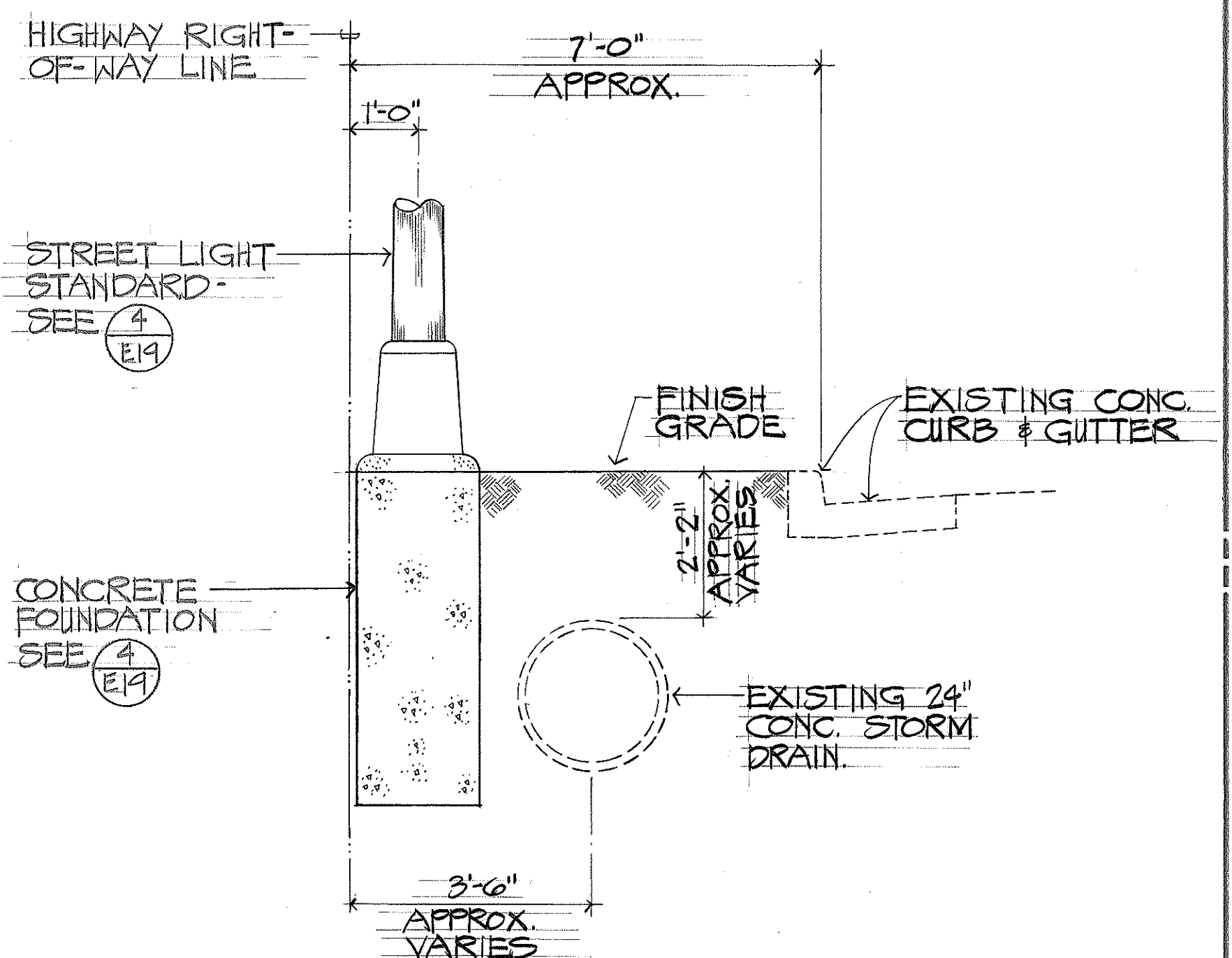


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY LIGHTING IMPROVEMENT
OF
NIMITZ HIGHWAY
SAND ISLAND ACCESS RD TO BISHOP ST
PROJECT NO. 92A-03-86
STREET LIGHT STANDARD DETAILS
SHEET No. E20 OF 23 SHEETS

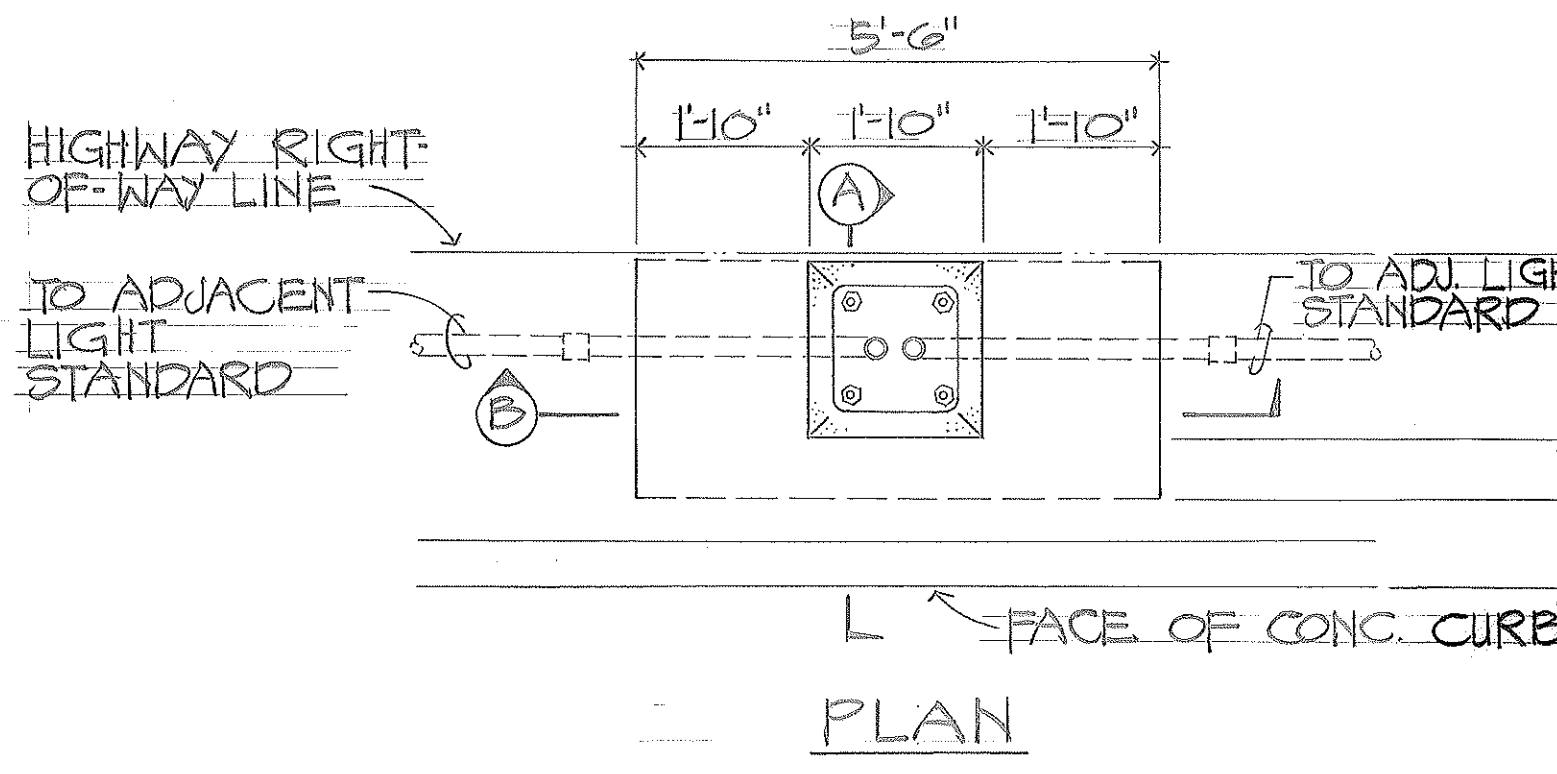
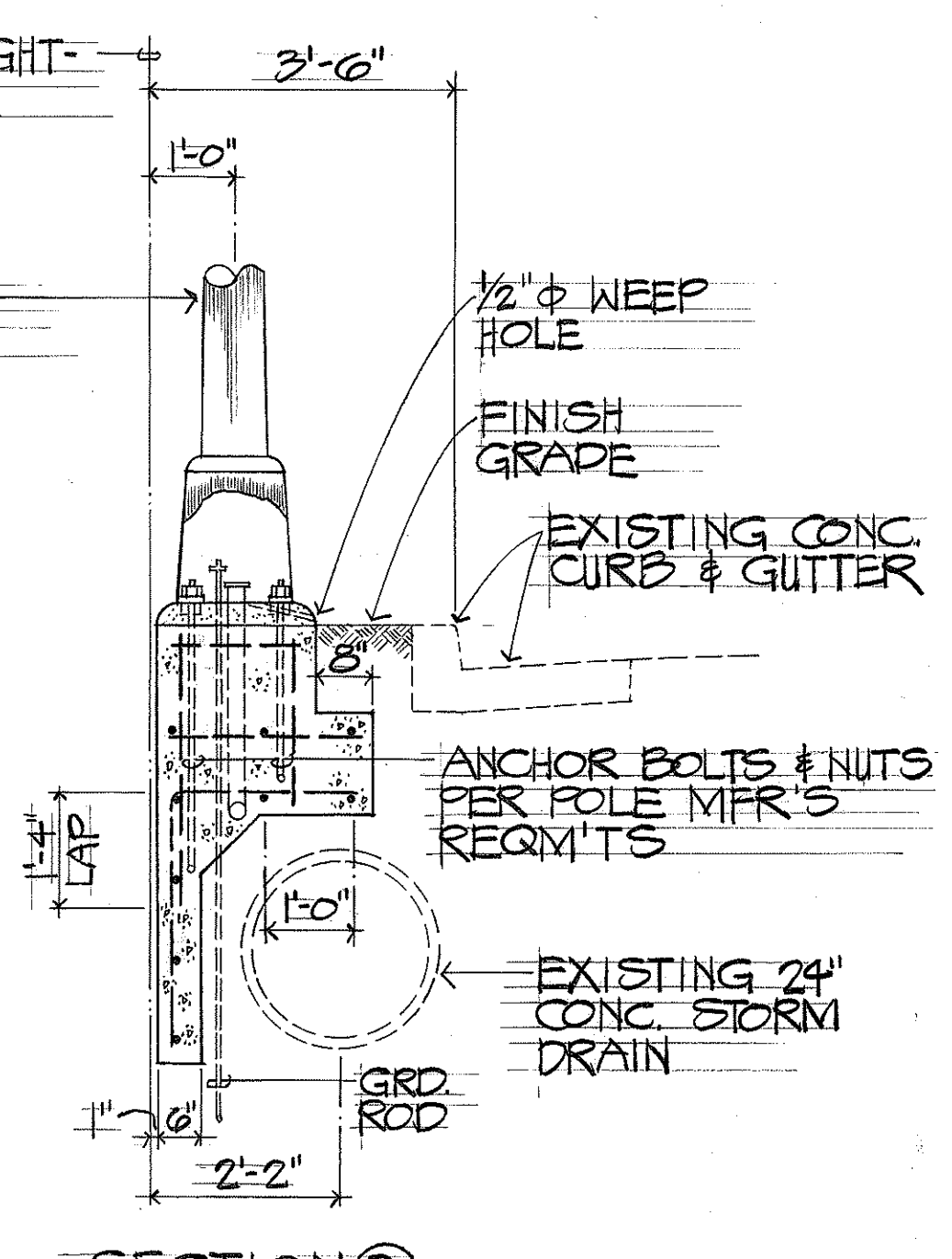
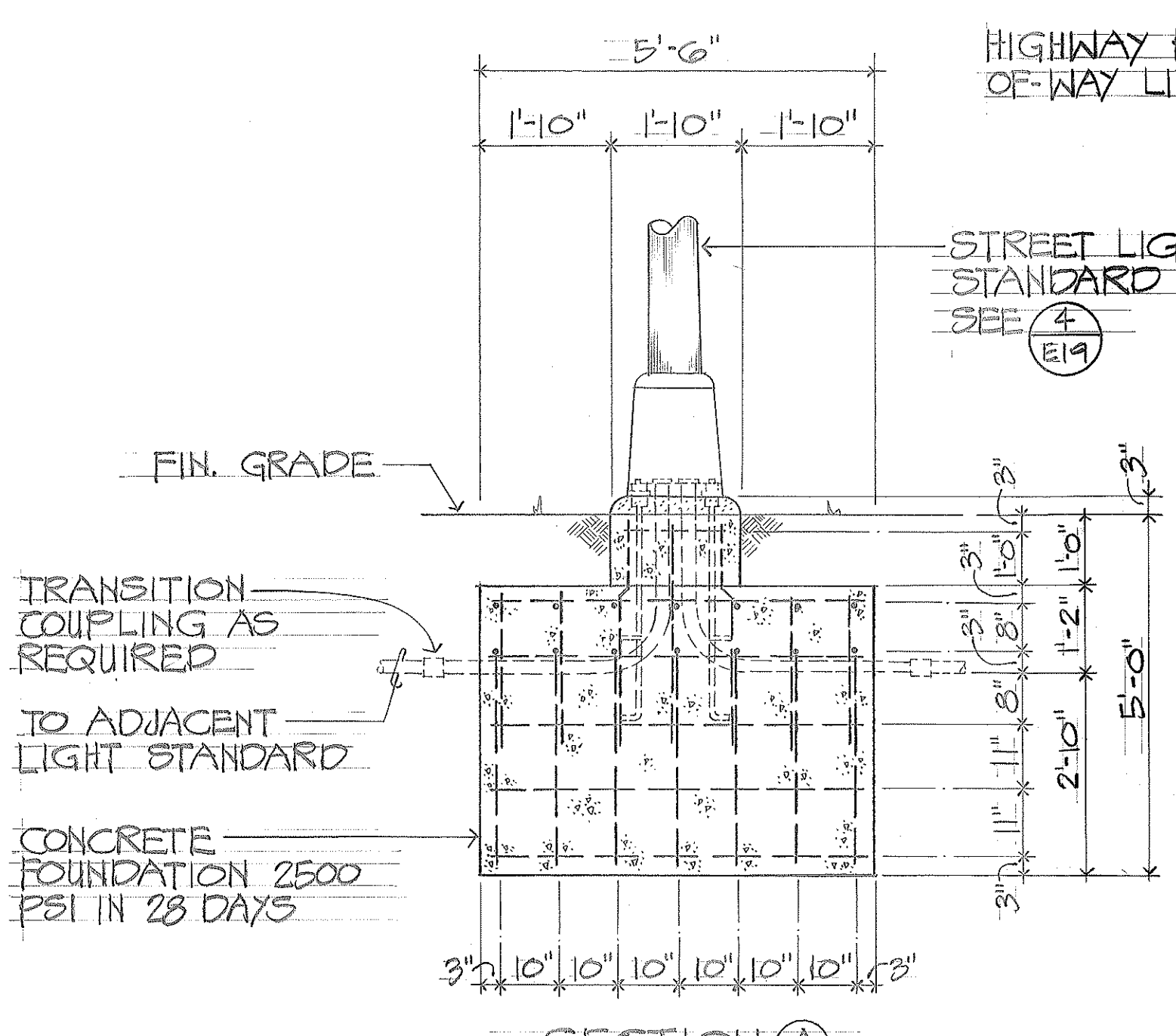
FED. ROAD DIST. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92A-03-86	1986	21	23



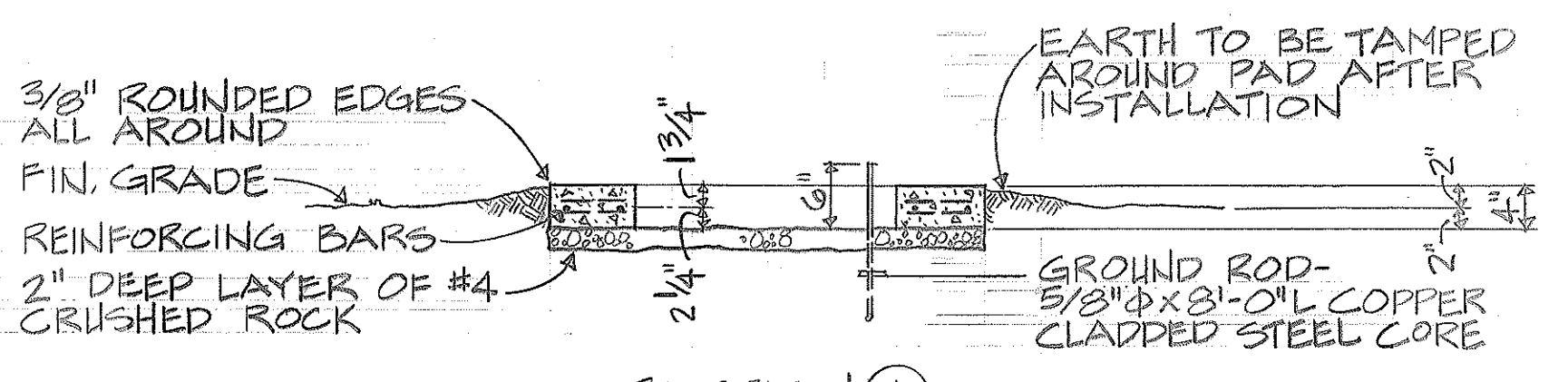
1 STREET LIGHT STANDARD BASE
E.20 DETAIL AT EXISTING SIGNAL CORPS
DUCTLINE
NOT TO SCALE



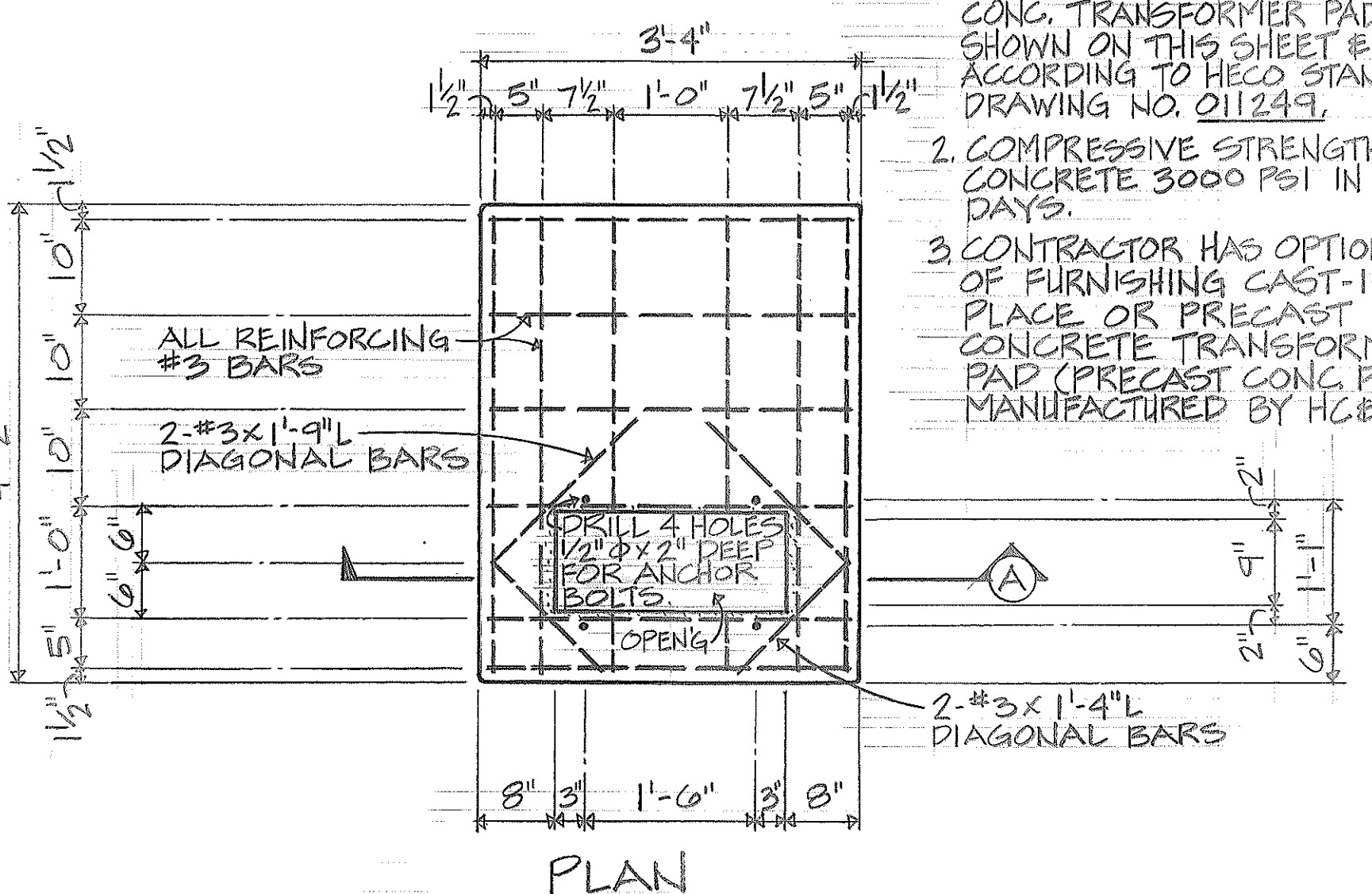
2 STREET LIGHT STANDARD BASE
E.20 DETAIL AT EXISTING STORM DRAIN
NOT TO SCALE



3 STREET LIGHT STANDARD BASE DETAIL
E.20 AT STA: 35+03 AND 39+53
NOT TO SCALE



- NOTES:
1. CONSTRUCT REINFORCED CONG. TRANSFORMER PAD AS SHOWN ON THIS SHEET & ACCORDING TO HECO STANDARD DRAWING NO. 011249.
 2. COMPRESSIVE STRENGTH OF CONCRETE 3000 PSI IN 28 DAYS.
 3. CONTRACTOR HAS OPTION OF FURNISHING CAST-IN-PLACE OR PRECAST CONCRETE TRANSFORMER PAD (PRECAST CONG PAD MANUFACTURED BY H&D).



4 CONCRETE TRANSFORMER PAD DETAIL
E.20 NOT TO SCALE

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY LIGHTING IMPROVEMENT
OF
NIMITZ HIGHWAY
SAND ISLAND ACCESS RD TO BISHOP ST
PROJECT NO. 92A-03-86

MISCELLANEOUS DETAILS
SHEET No. E21 OF 23 SHEETS

