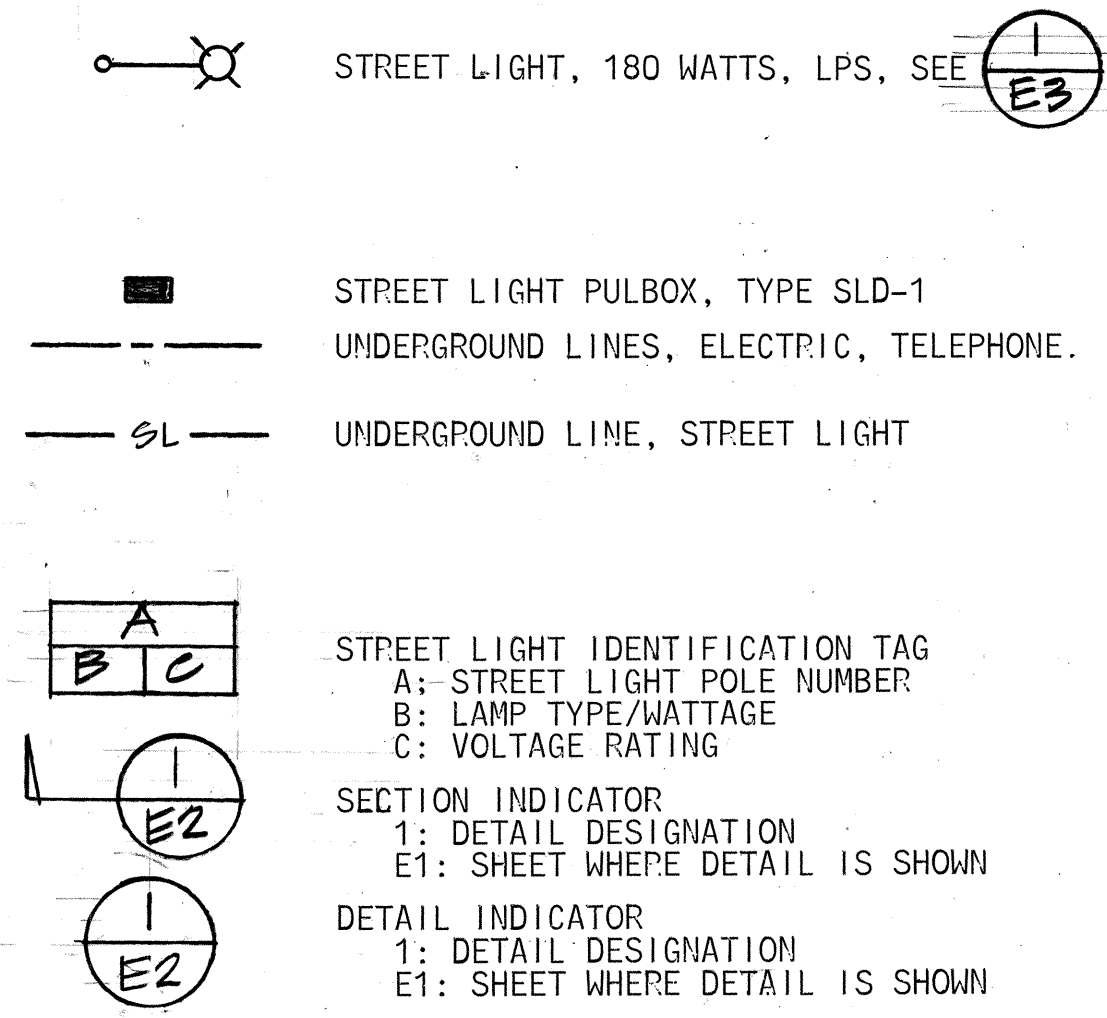
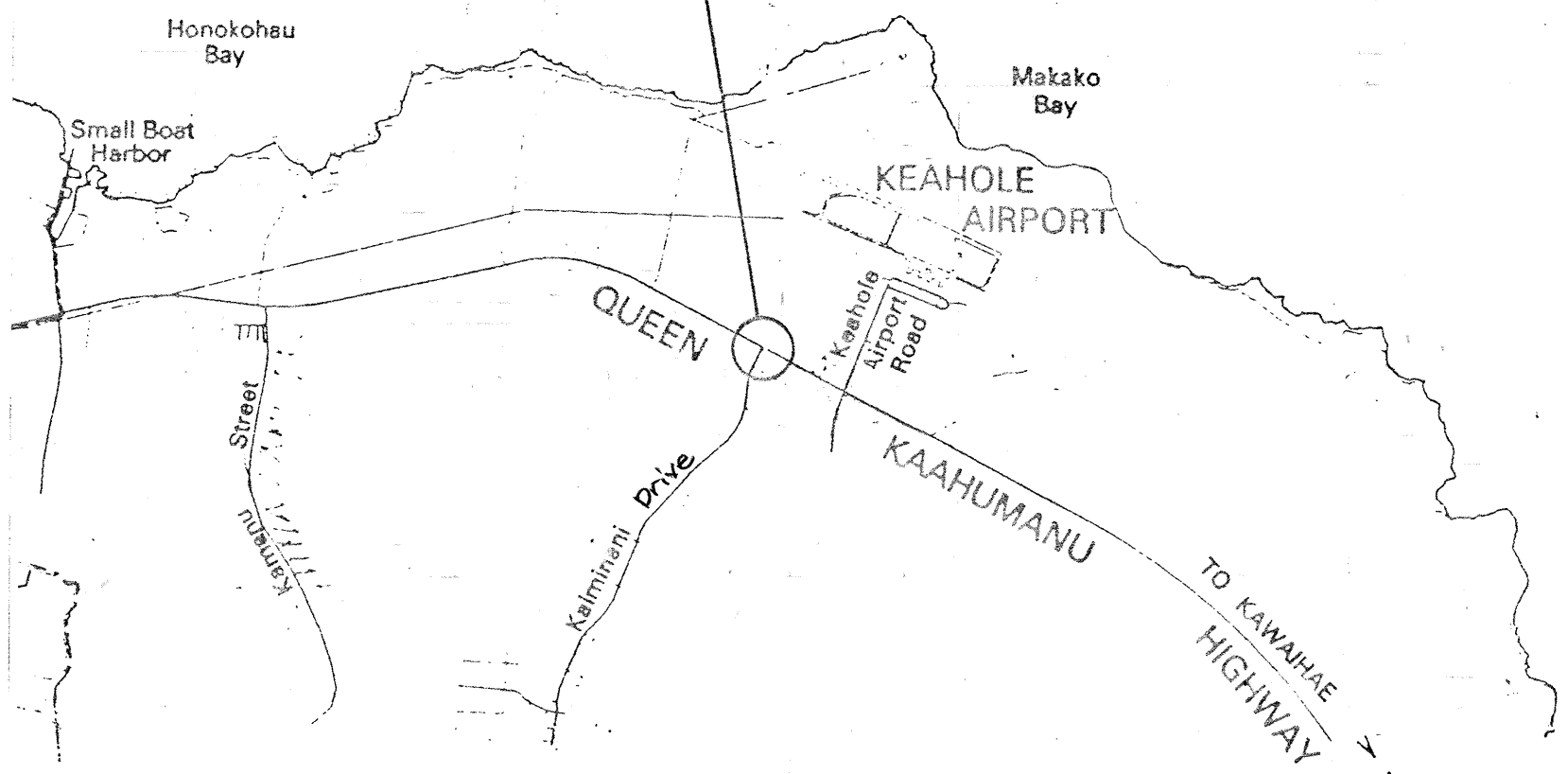


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-1(22)	1998	14	17

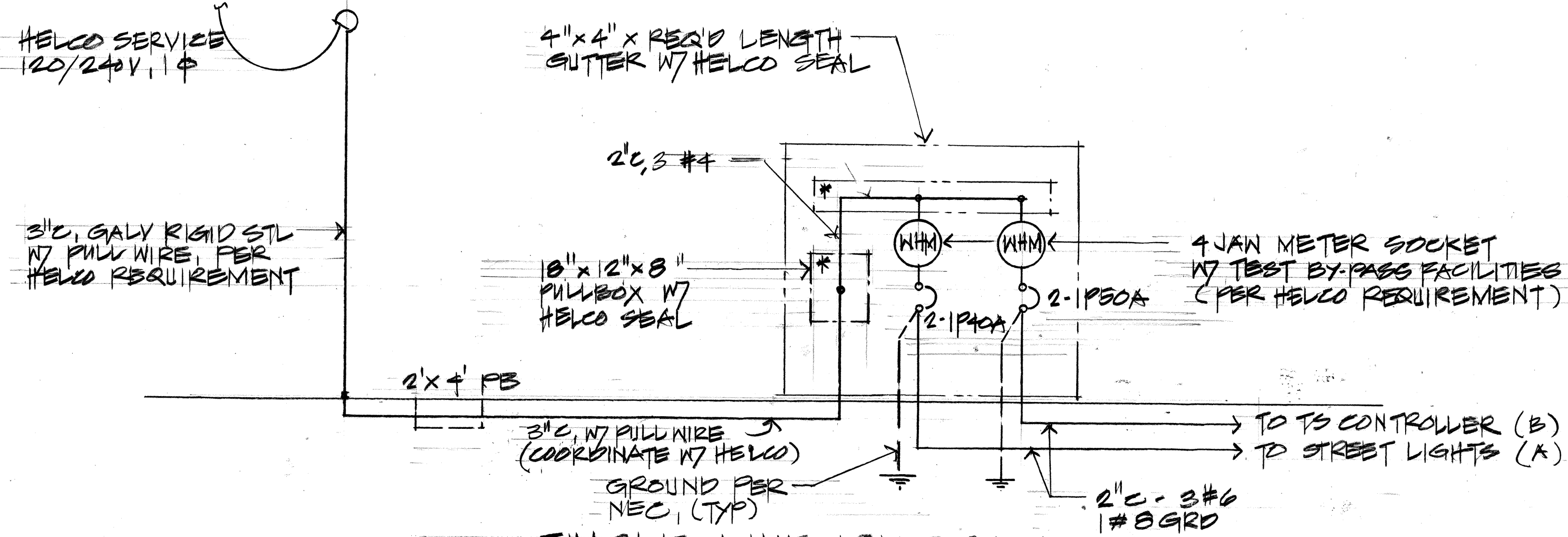
ELECTRICAL SYMBOLS



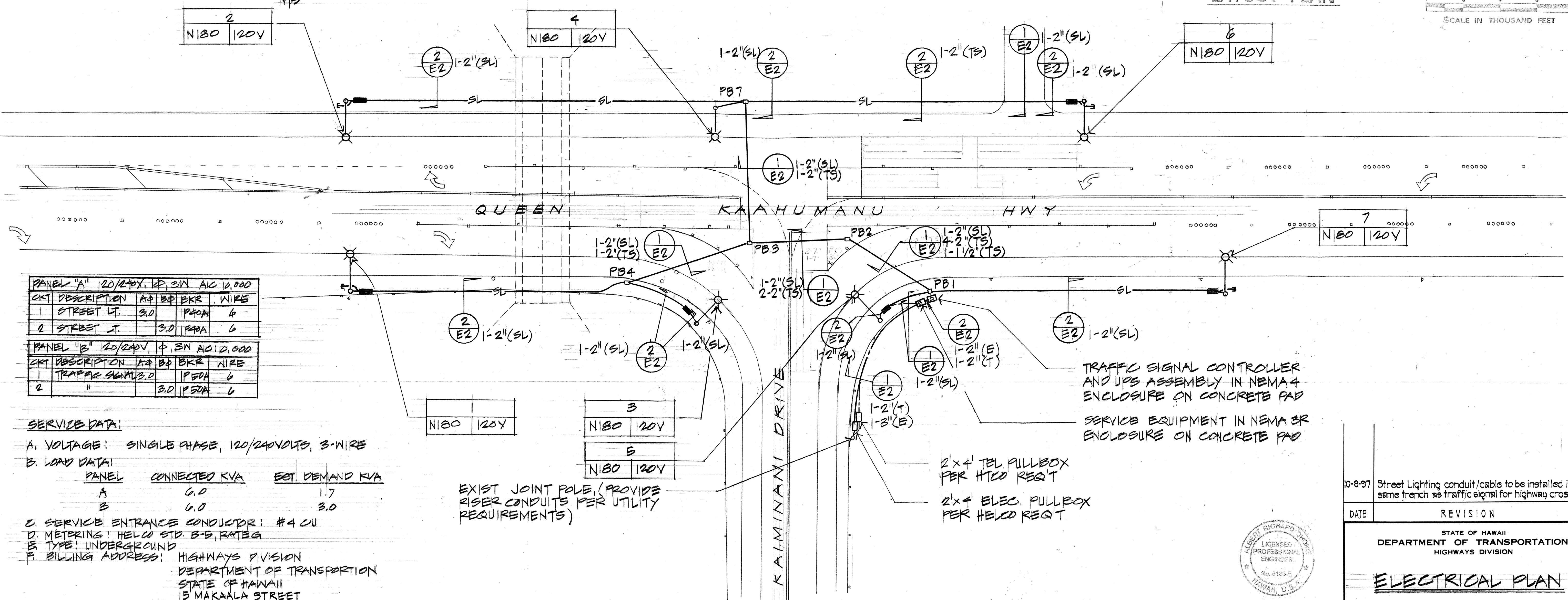
PROJECT LOCATION



LAYOUT PLAN

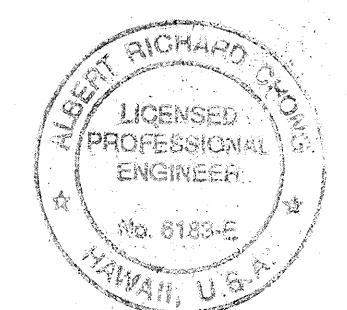


SINGLE LINE DIAGRAM



ELECTRICAL PLAN

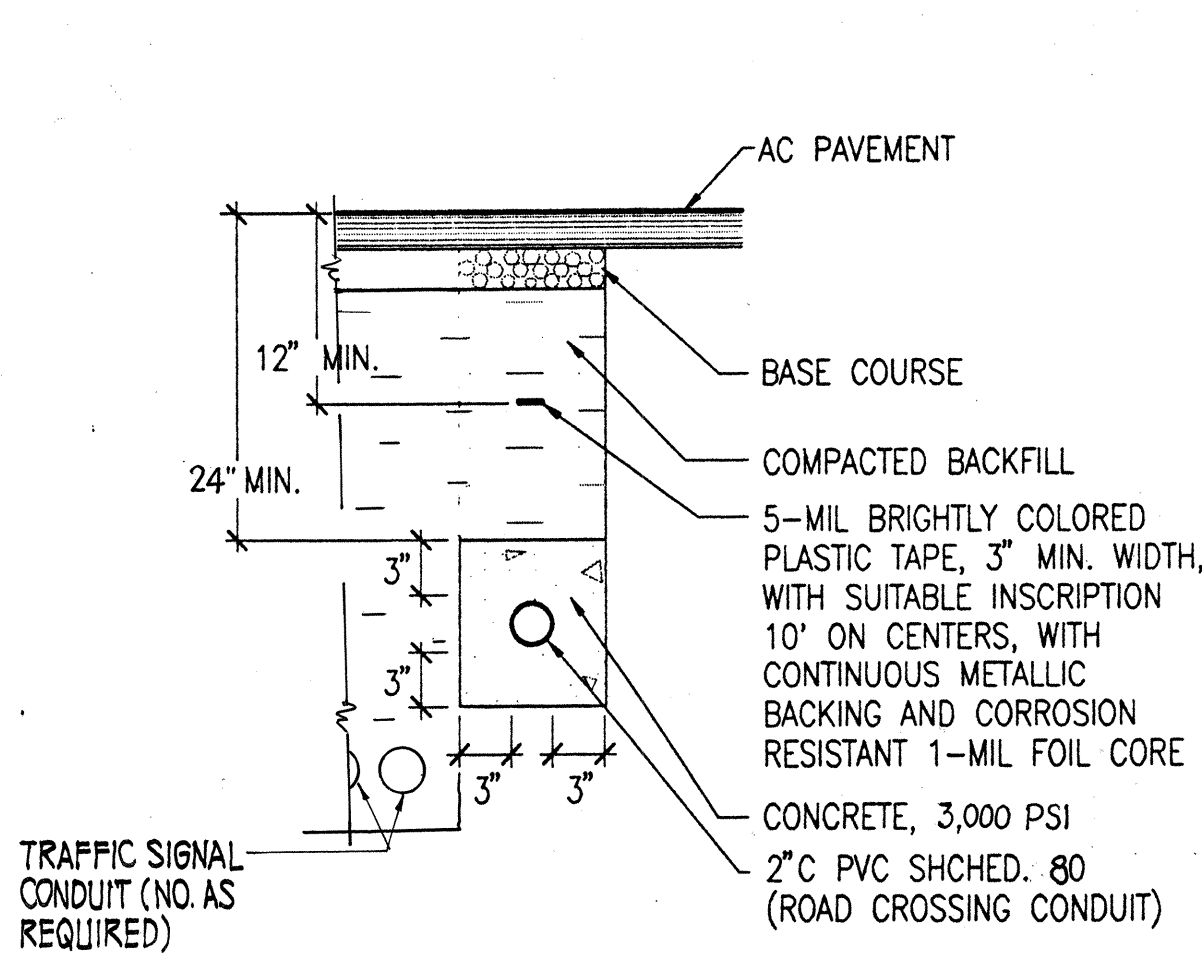
SCALE: 1" = 20'



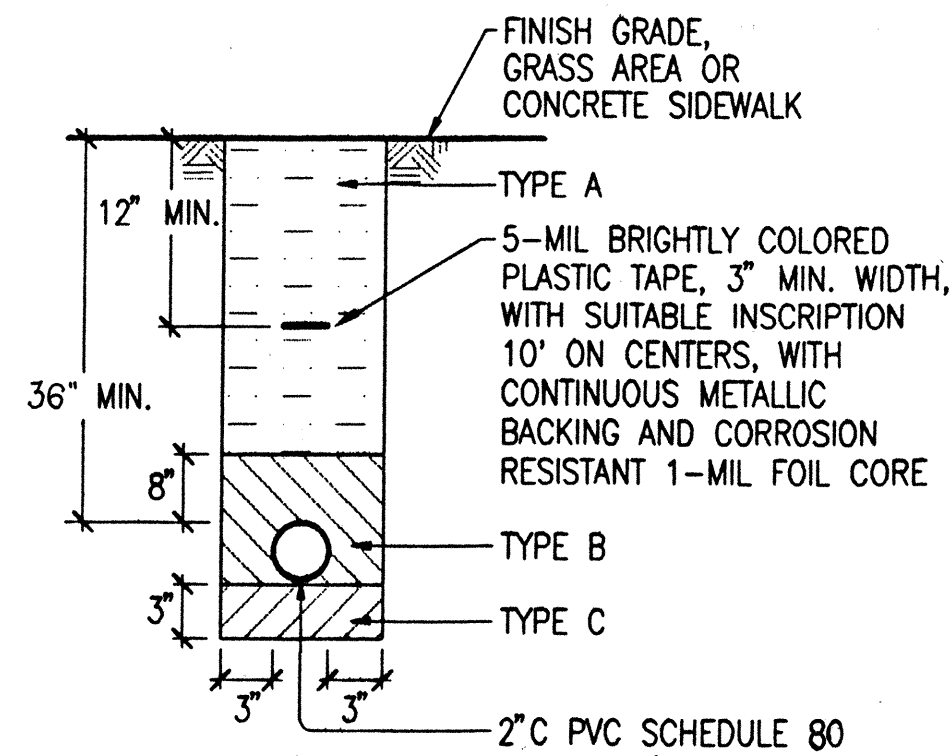
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

10-8-97	Street Lighting conduit/cable to be installed in the same trench as traffic signal for highway crossings.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ELECTRICAL PLAN	
QUEEN KAAHUMANU HIGHWAY TRAFFIC SIGNAL @ KAIMINANI DRIVE FEDERAL AID PROJECT NO. STP-019-1(22)	
SCALE: AS SHOWN DATE: MAY 1997	
SHEET NO. 14 OF 4 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-1(22)	1998	15	17



1 SECTION
E2 N.T.S. CAD : 4029-E3



2 SECTION
E2 N.T.S. CAD : 4029-E3

BACKFILL NOTES:

TYPE "A"

BEACH SAND, EARTH, OR EARTH & GRAVEL. THE MAXIMUM ROCK SIZE SHALL BE 1" AND THE MIXTURE SHALL CONTAIN NO MORE THAN 50% BY VOLUME OF ROCK PARTICLES, 95% COMPACTION.

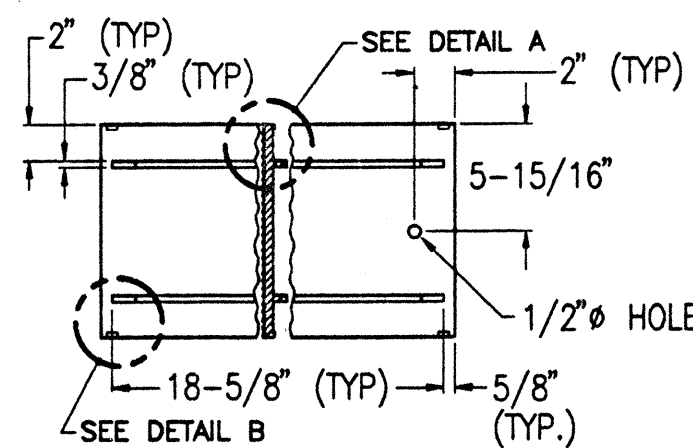
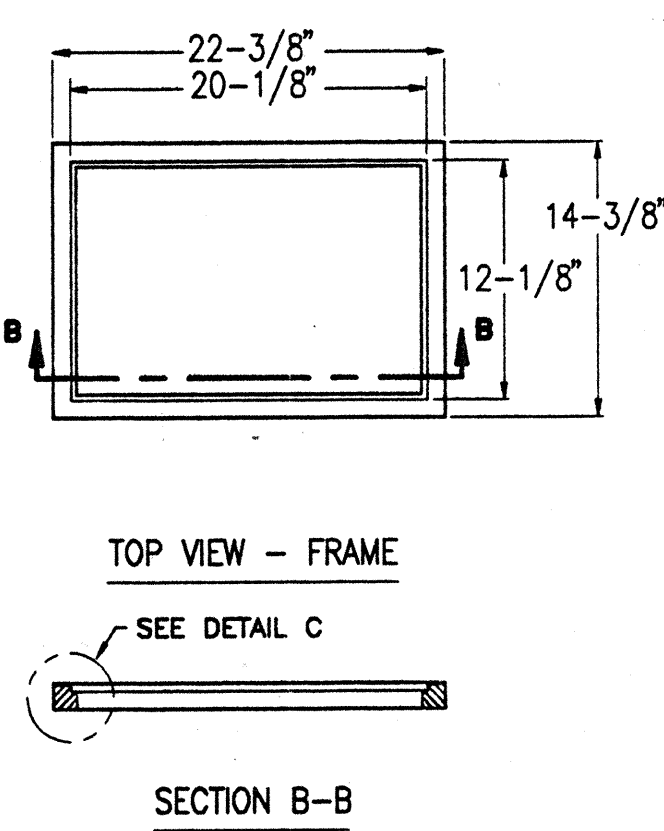
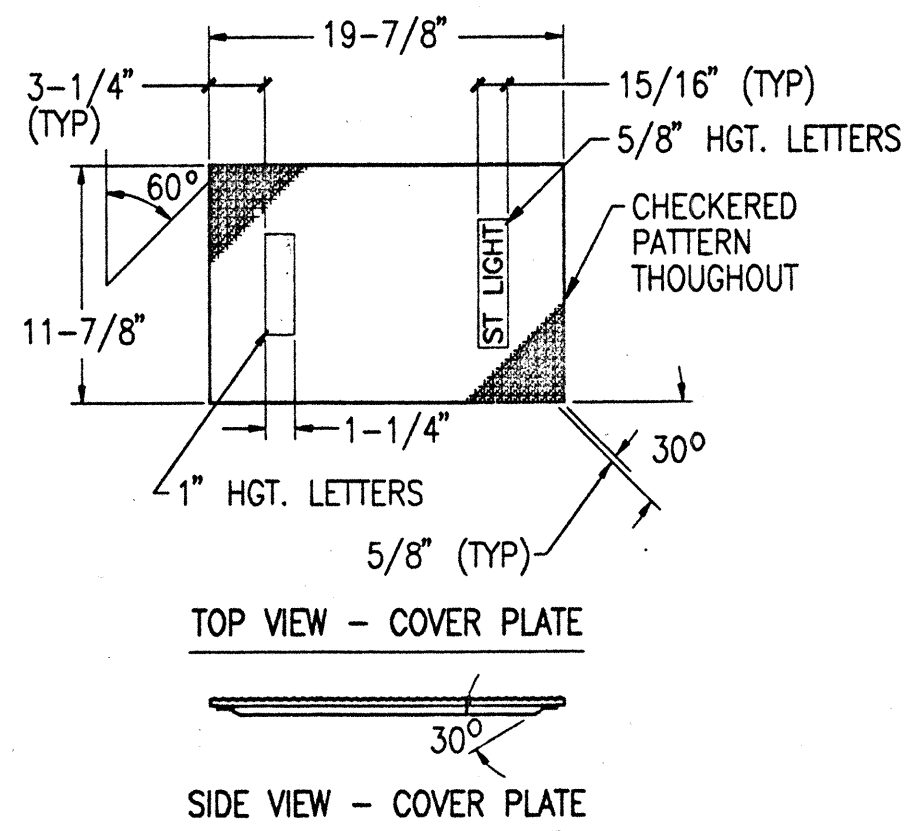
TYPE "B"

BEACH SAND, EARTH, OR EARTH & GRAVEL. IF EARTH AND GRAVEL MIXTURE. MUST PASS A 1/2" MESH SCREEN AND CONTAIN NOT MORE THAN 20% BY VOLUME OF ROCK PARTICLES, 95% COMPACTION.

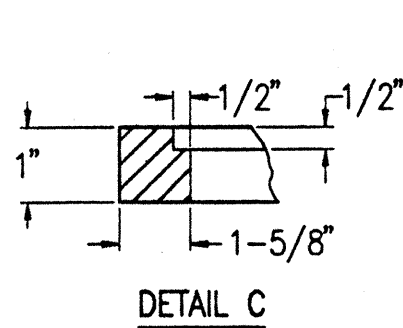
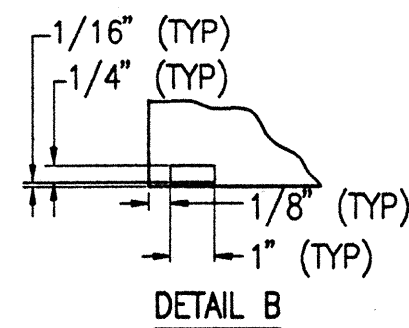
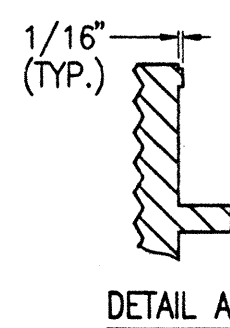
TYPE "C"

IF THE NORMAL MATERIAL IN THE BOTTOM OF THE TRENCH IS NOT TYPE "B", AN ADDITIONAL 3" SHALL BE EXCAVATED AND TYPE "B" BACKFILL SHALL BE PROVIDED

TYPICAL DUCT SECTIONS N.T.S.

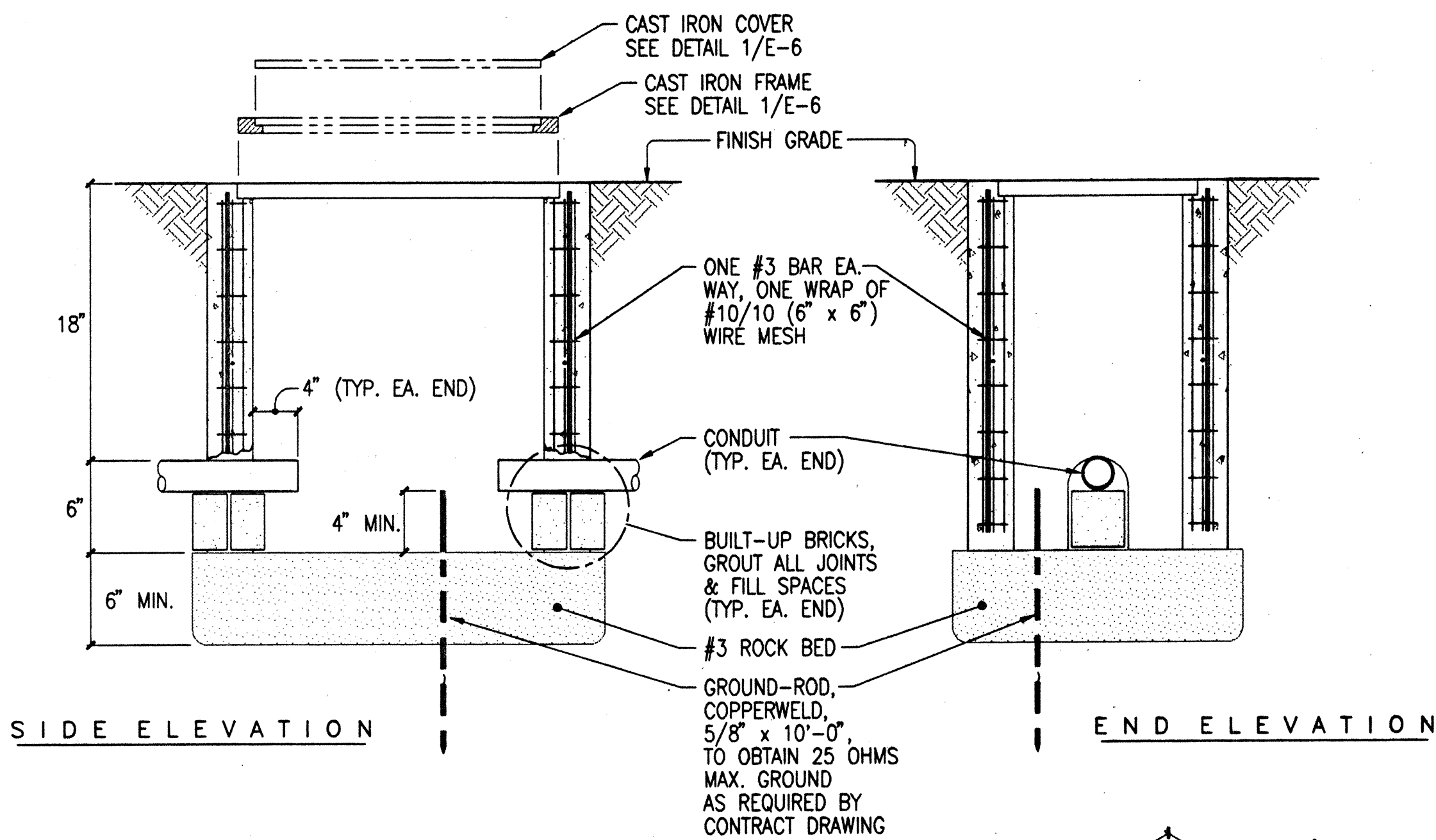


BACK VIEW - COVER PLATE



NOTES

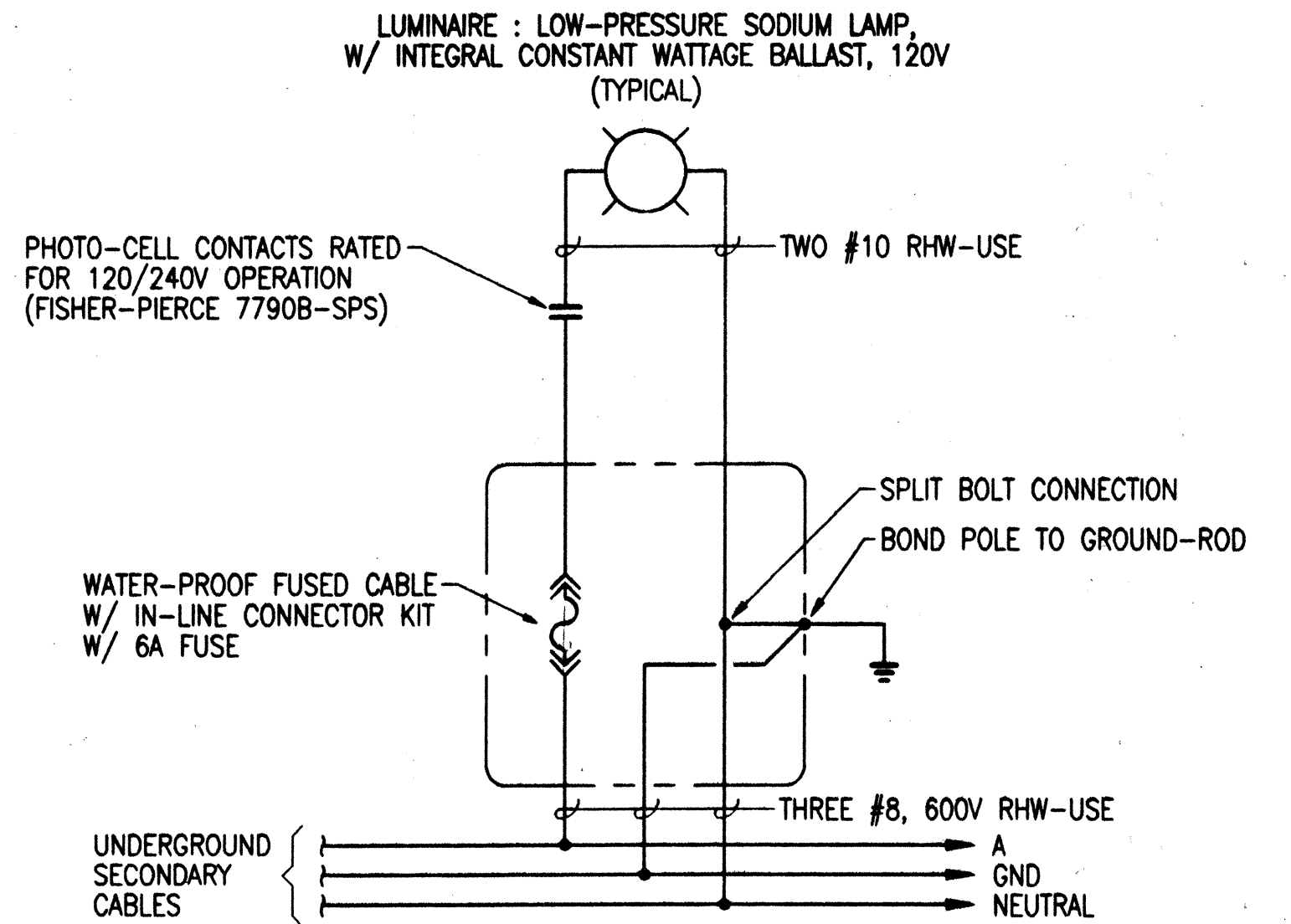
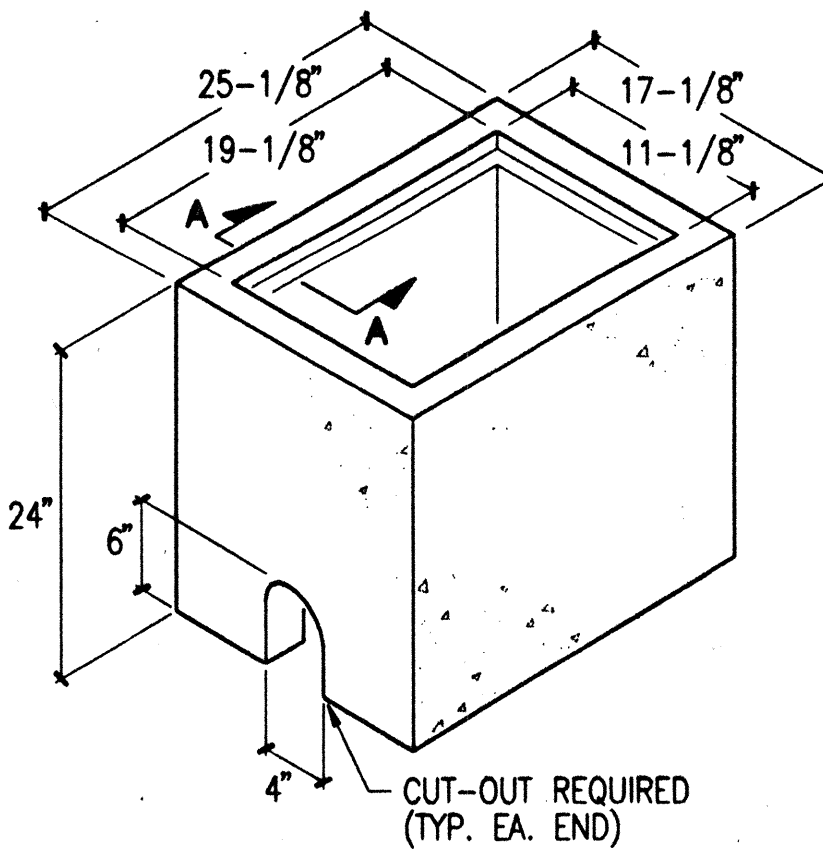
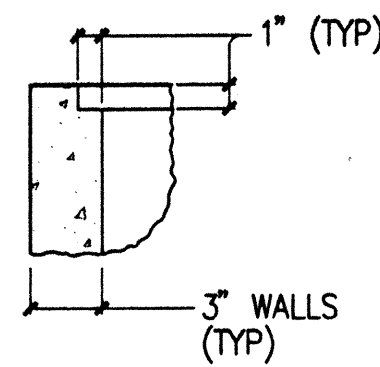
- SIDE OF COVER PLATE ARE SLIGHTLY BEVELED TO FACILITATE INSTALLATION. BEVEL IS INWARD FROM TOP TO BOTTOM.
- TO BE CAST FROM GREY IRON.



NOTE:

SUBMIT SHOP DRAWINGS OF BOX, FRAME & COVER PLATE FOR MATERIALS APPROVAL.

SECTION A-A



5 STREET LIGHT WIRING SCHEMATIC
E2 NOT TO SCALE CAD : 4029-E3

10-8-97 TYPICAL DUCT SECTIONS: Added min. depths; 3000 psi conc. jacket.

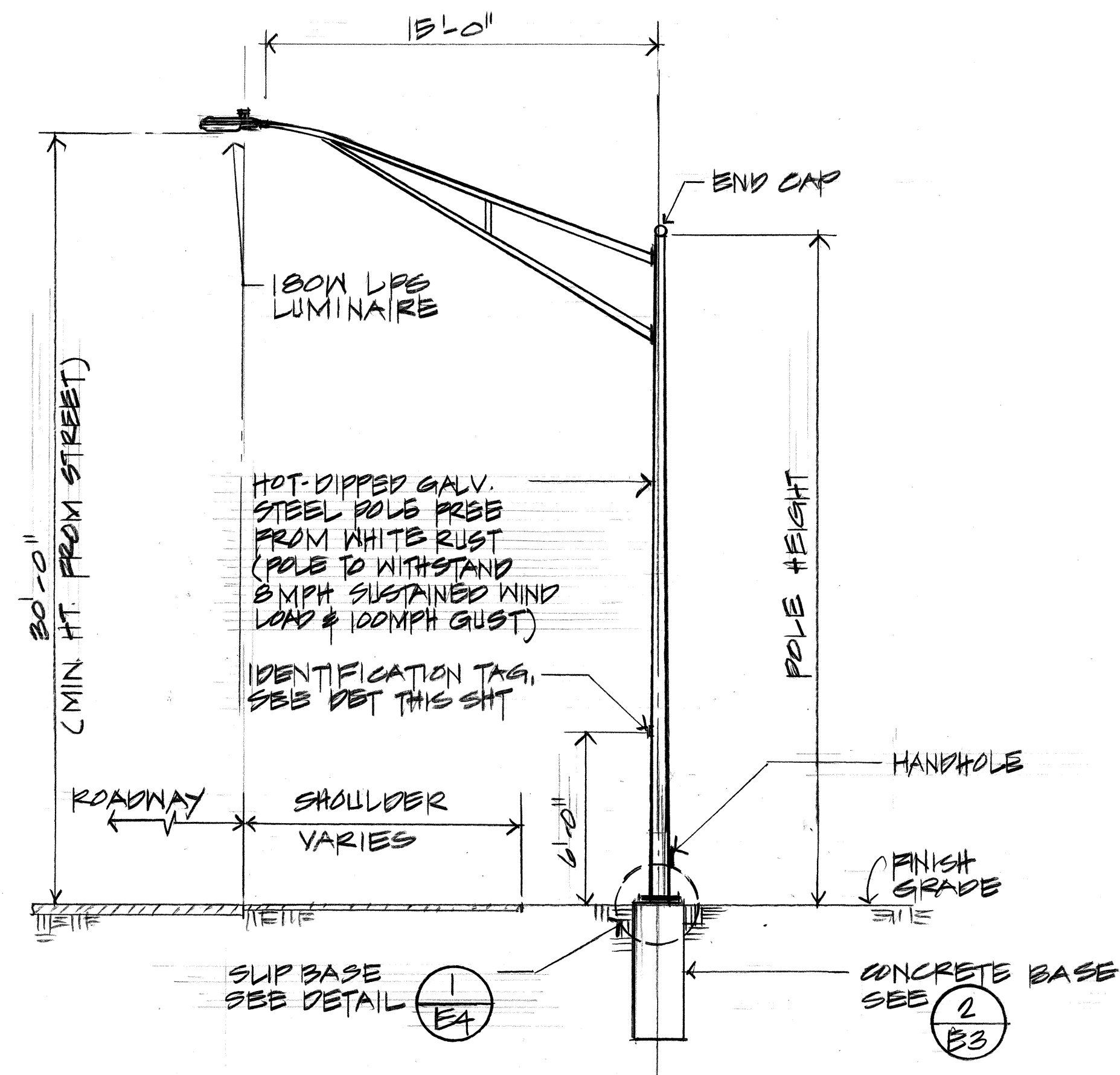
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

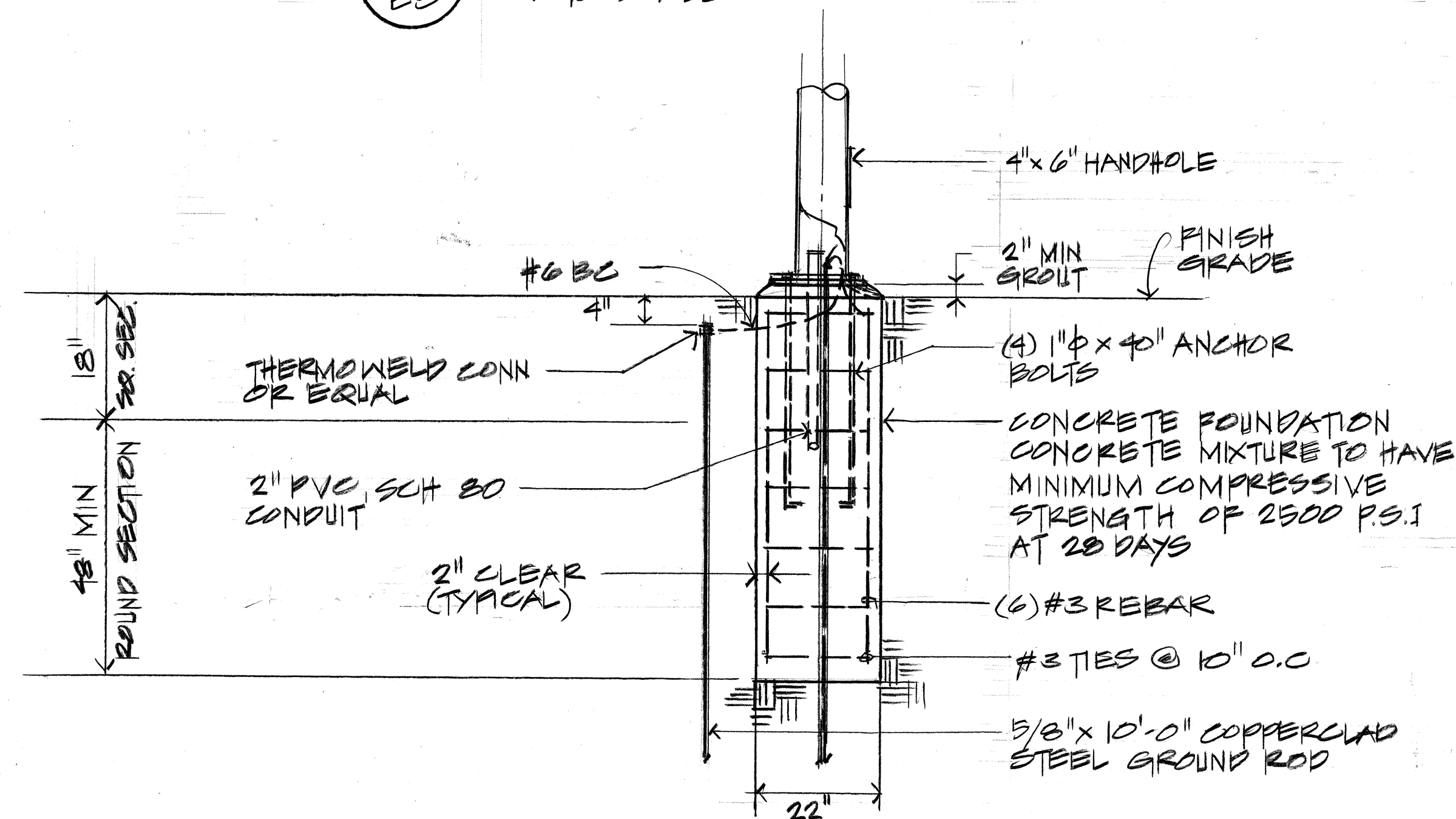
SECTIONS & DETAILS

QUEEN KAAHUMANU HIGHWAY
TRAFFIC SIGNAL @ KAIMINANI DRIVE
FEDERAL AID PROJECT NO STP-019-1(22)
SCALE: AS SHOWN DATE: MAR 1997
SHEET NO. E2 OF 4 SHEETS

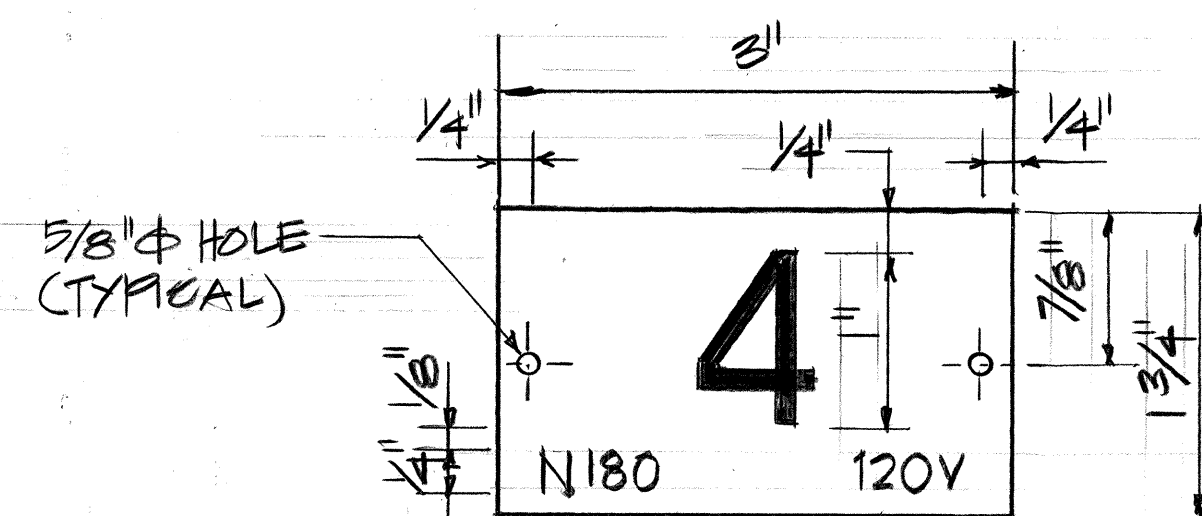
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-1(22)	1998	16	17



1 STREET LIGHT POLE DETAIL
E3 NOT TO SCALE

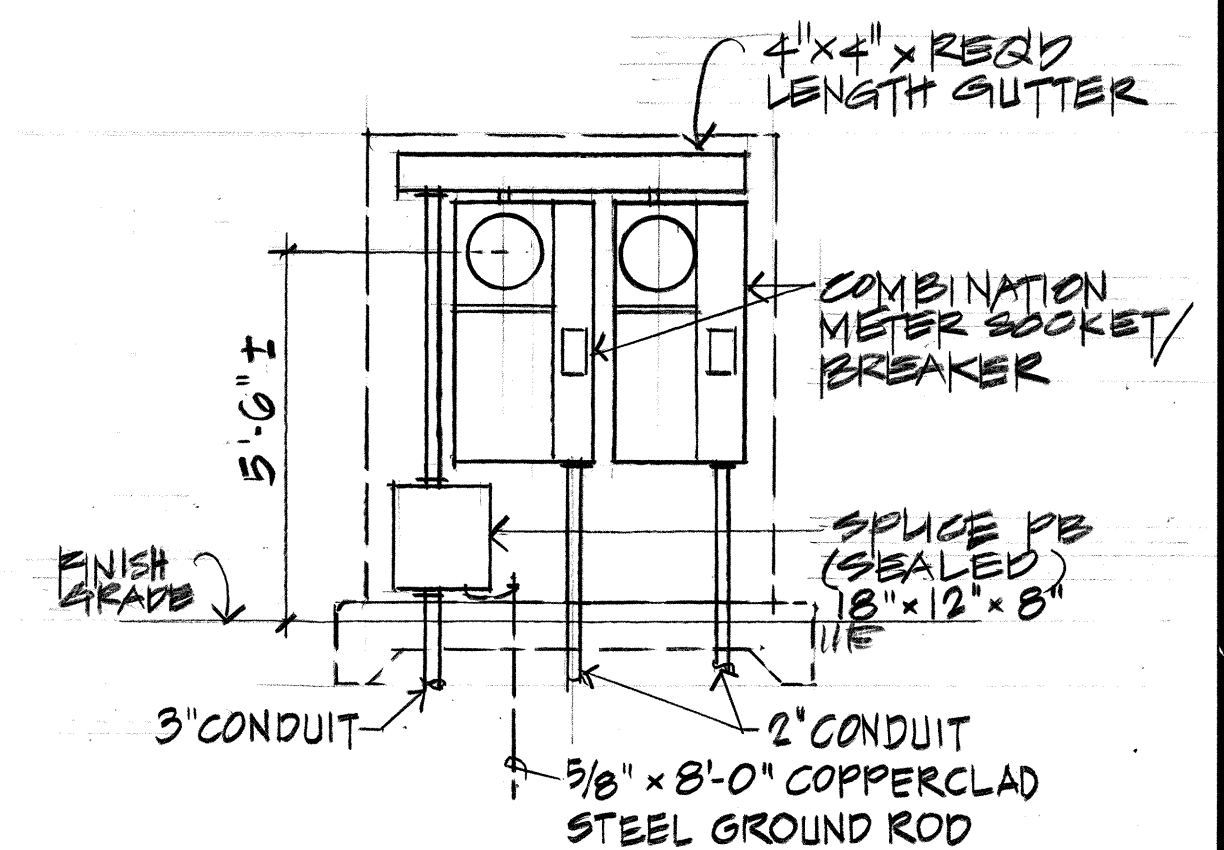


2 CONCRETE BASE DETAIL
E3 NOT TO SCALE

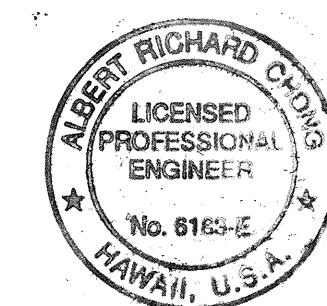


- NOTES:
1. USE 2 PLY PLASTIC - BLACK WHITE
 2. NUMBER SIZE SHALL BE 1" HIGH AND ENGRAVED 1/8" WIDE, WHITE IN COLOR (NUMBER AS REQUIRED).
 3. NOMENCLATURE SHALL BE 1/4" HIGH AND ENGRAVED 1/32" WIDE, WHITE IN COLOR (WATTAGE AND VOLTAGE AS REQUIRED).
 4. ATTACHED TO ALUMINUM POLES WITH #7 ALUM. DRIVE SCREWS.
 5. USE "N" FOR SODIUM LAMPS.

4 POLE IDENTIFICATION TAG DETAIL
E3 NOT TO SCALE



3 SERVICE EQUIPMENT DETAIL
E3



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

10-8-97	Removed: Service Equipment Elevation & Side View Details & Padlock Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
QUEEN KAAHUMANU HIGHWAY TRAFFIC SIGNALS @ KAIMINANI DRIVE FEDERAL AID PROJECT NO. STP-019-1(22)	
SCALE: AS SHOWN	DATE: MAY 1997
SHEET No. 83 OF 4 SHEETS	

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