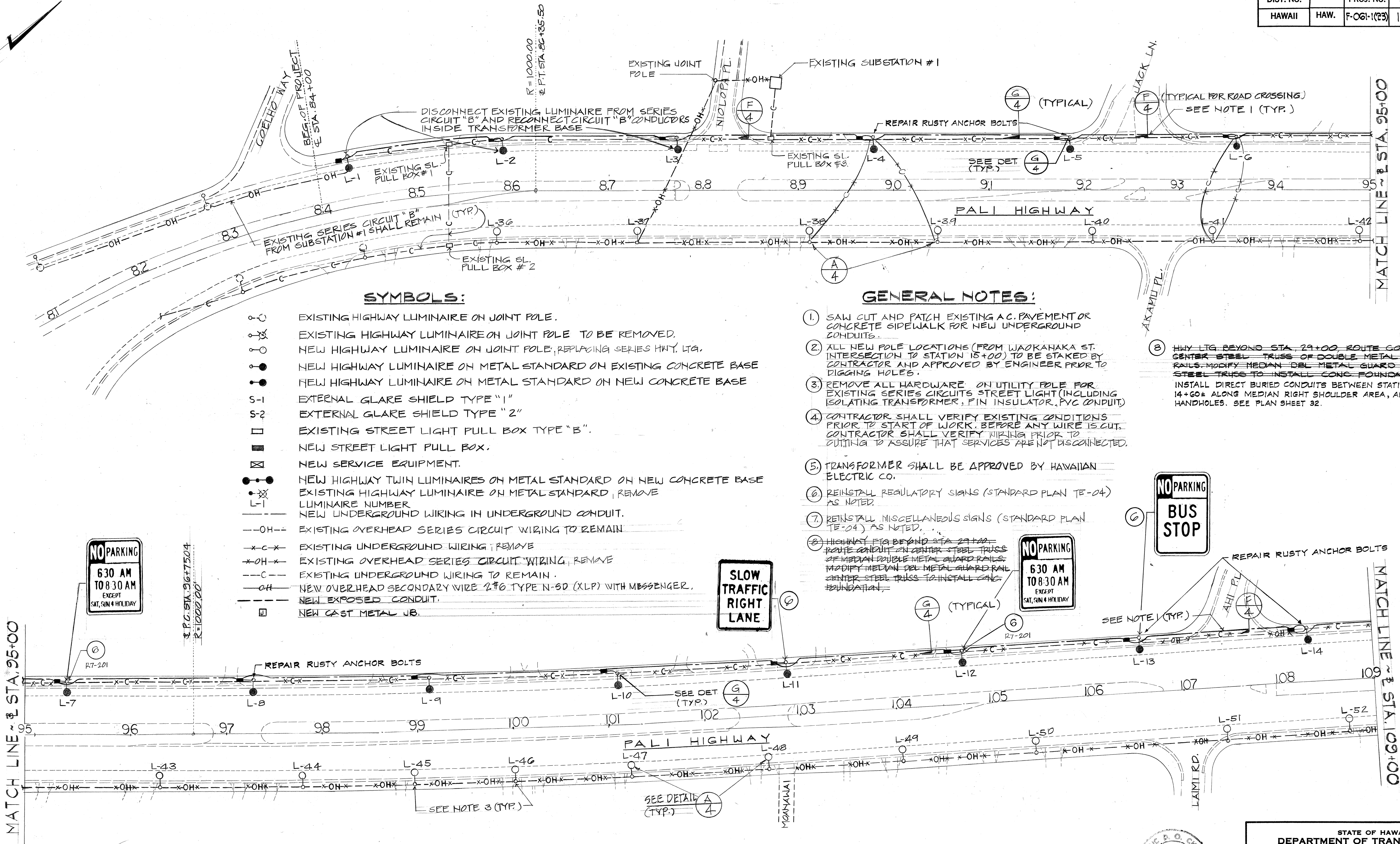


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(23)	1988	30	49



MATCH LINE ~ STA. 95+00

MATCH LINE ~ STA. 109+00

STREET LIGHTING PLAN
SCALE 1"=50'-0"

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

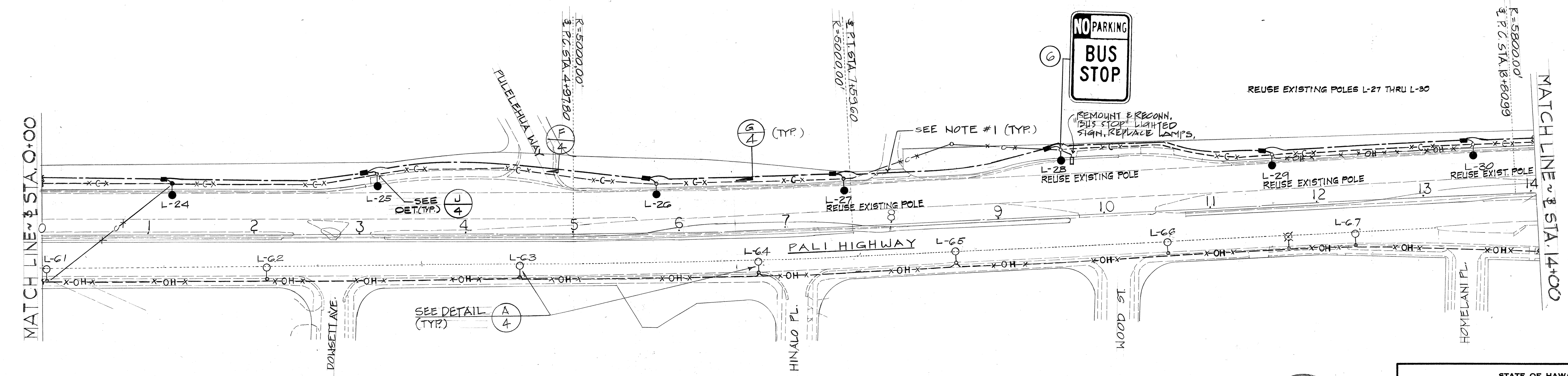
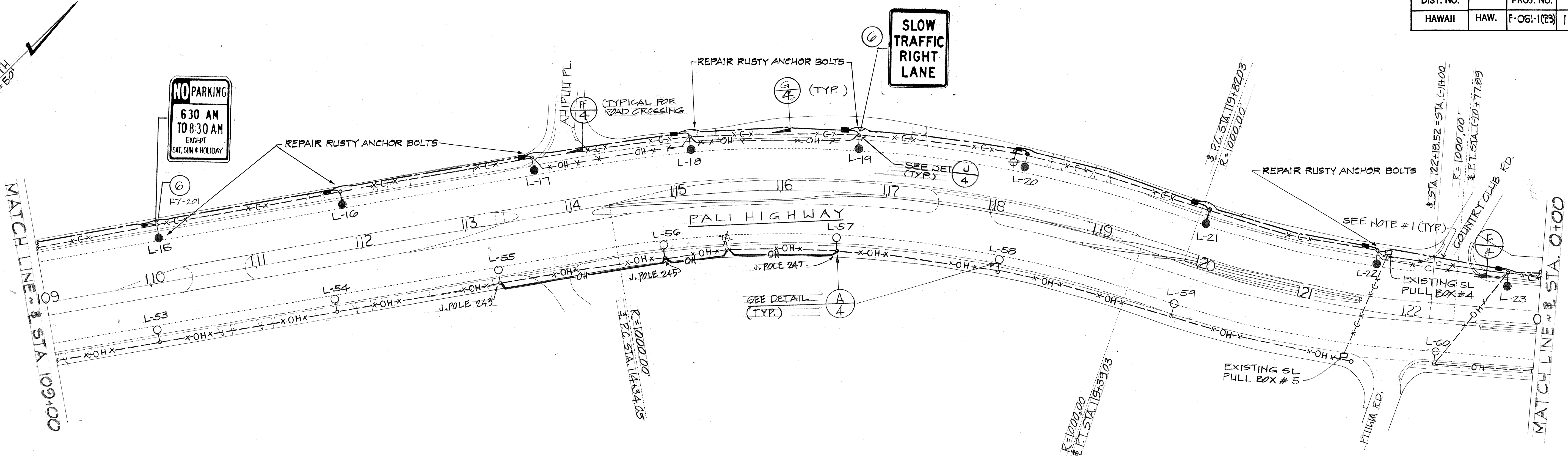
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
[Signature]
9/19/88

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET LIGHTING PLAN

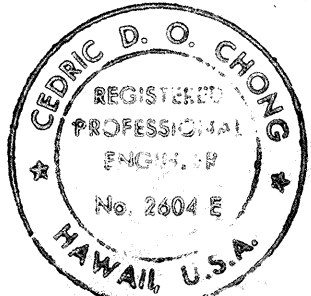
IMPROVEMENTS ALONG PALI HIGHWAY
BETWEEN NIOLOPA PL & WAAKANAKA ST.
PROJECT NO F-061-1(23)
SHEET NO. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(23)	1988	31	49



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STREET LIGHTING PLAN
SCALE 1"=50'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
lm
9/19/85

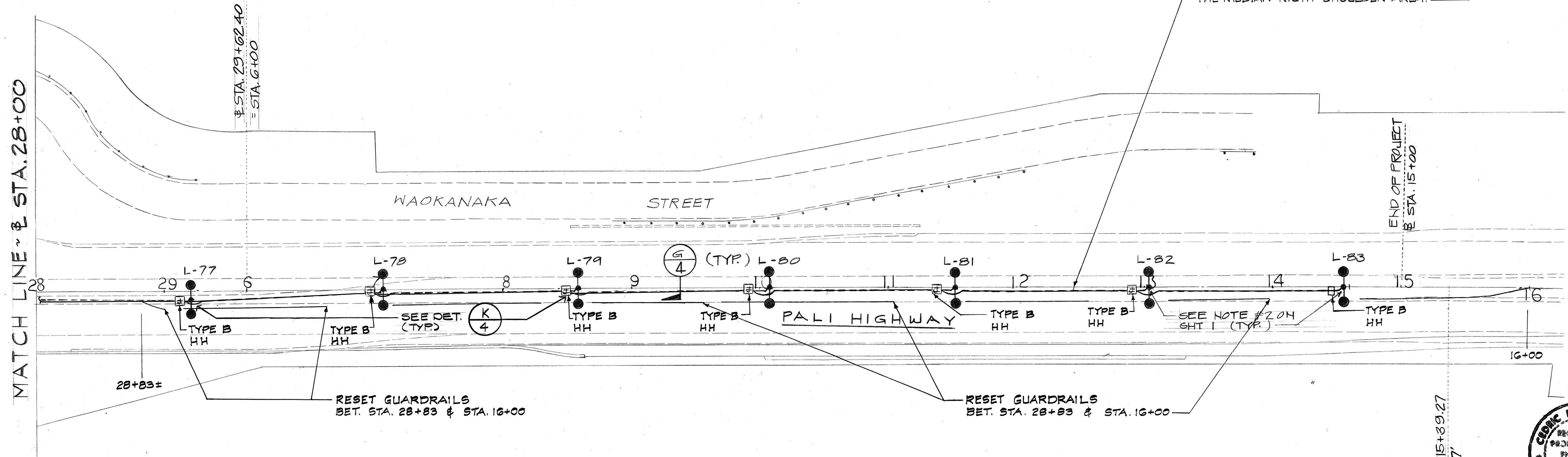
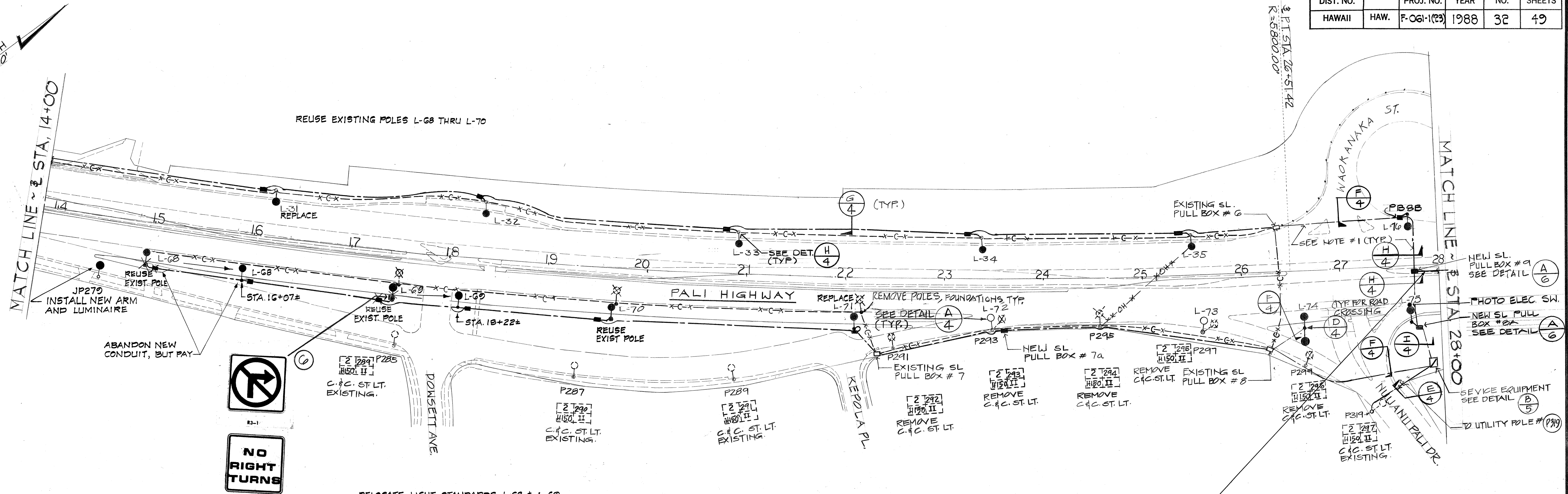
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STREET LIGHTING PLAN

IMPROVEMENTS ALONG PALI HIGHWAY
BETWEEN NIOLOPA PL & WAKANAKA ST.
PROJECT NO F-061-1(23)

SHEET NO. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(23)	1988	32	49



STREET LIGHTING PLAN
SCALE 1"=50'-0"

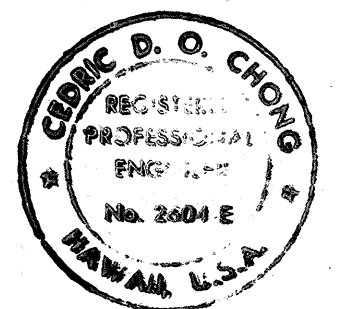
APPROVED (FOR REMOVAL OF C.&C. FACILITIES).
DATE
DIRECTOR, DEPT. OF TRANSPORTATION SERVICES.

CITY & COUNTY OF HONOLULU
DEPARTMENT OF TRANSPORTATION SERVICES
ELECTRICAL & MAINTENANCE SERVICES DIVISION NOTES:

THE CONTRACTOR SHALL NOTIFY THE ELECTRICAL AND MAINTENANCE SERVICES DIVISION, DEPARTMENT OF TRANSPORTATION SERVICES, THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE STREET LIGHTING SYSTEM (PHONE: 523-4405).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING STREET LIGHTING FACILITIES AND DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO COST.

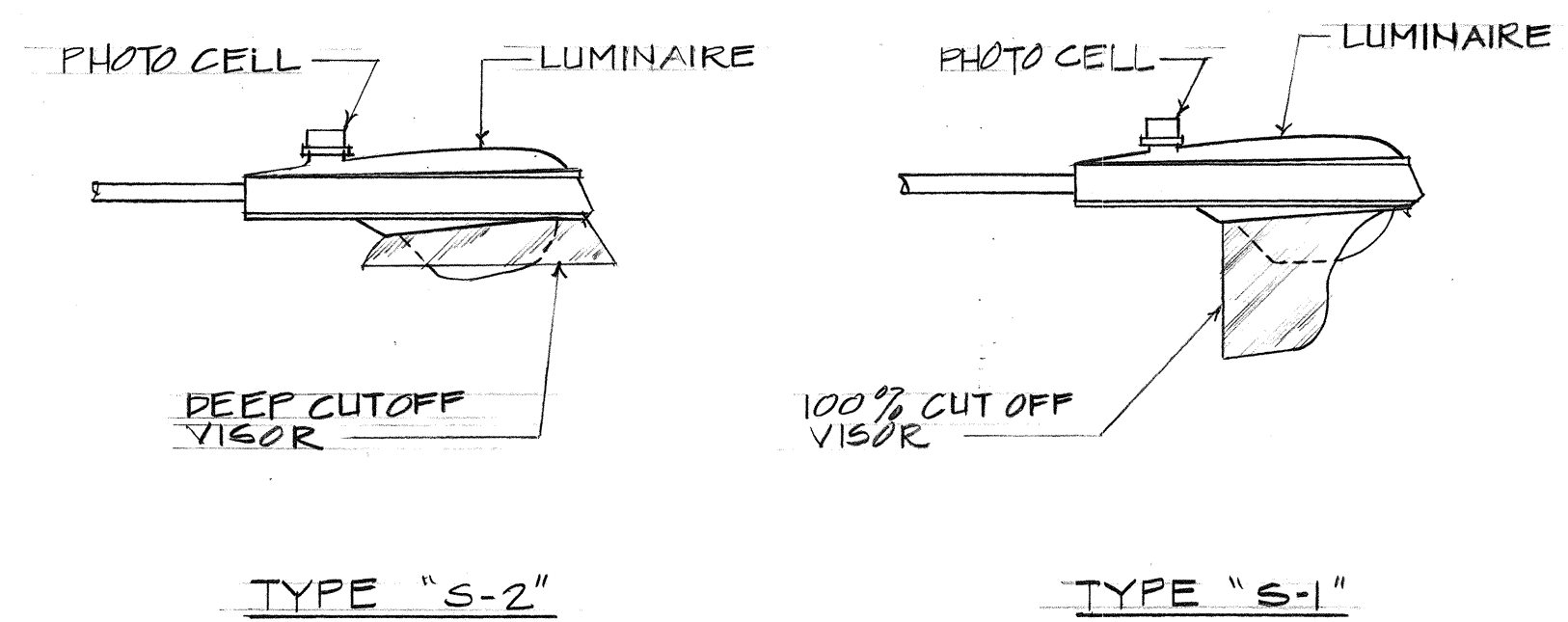
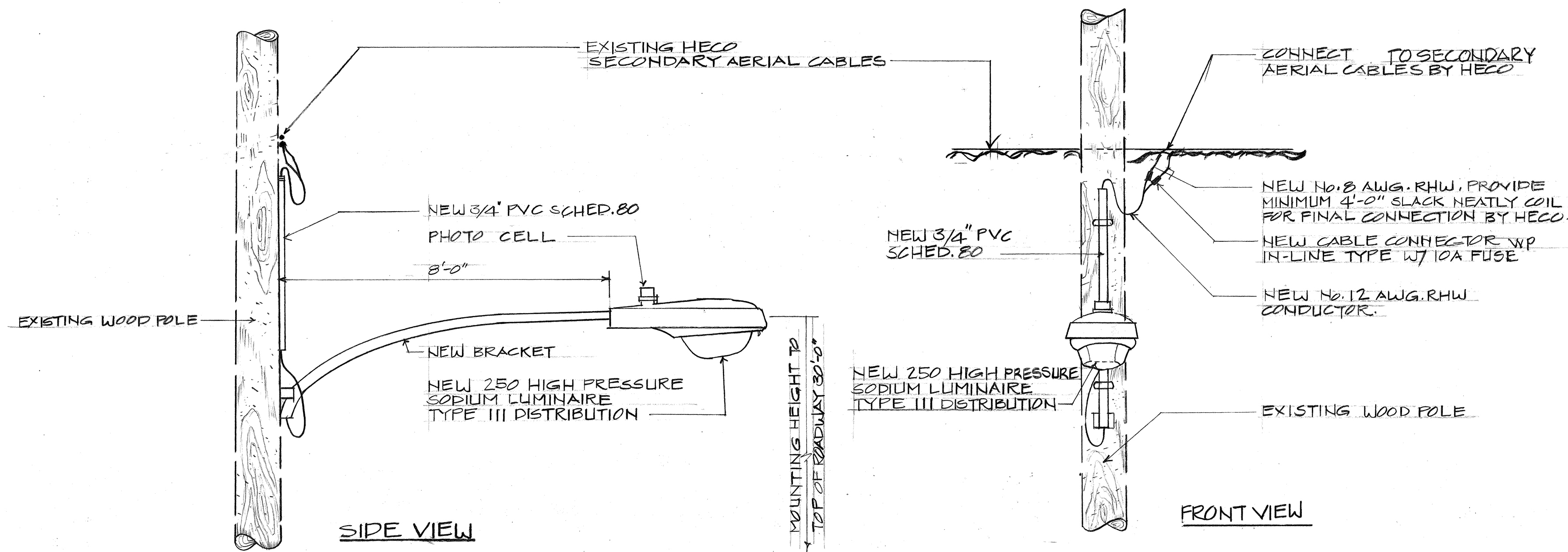
CITY & COUNTY STREET LIGHTING LUMINAIRES & BRACKET ARMS REMOVED SHALL BE DELIVERED TO THE CITY AND COUNTY BASED YARD AT 160 KOOLA ST.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STREET LIGHTING PLAN
IMPROVEMENTS ALONG PALI HIGHWAY
BETWEEN NIOLOPA PL. & WAIKANAKA ST
PROJECT NO. F-061-1(23)
SHEET NO. 3 OF 5 SHEETS

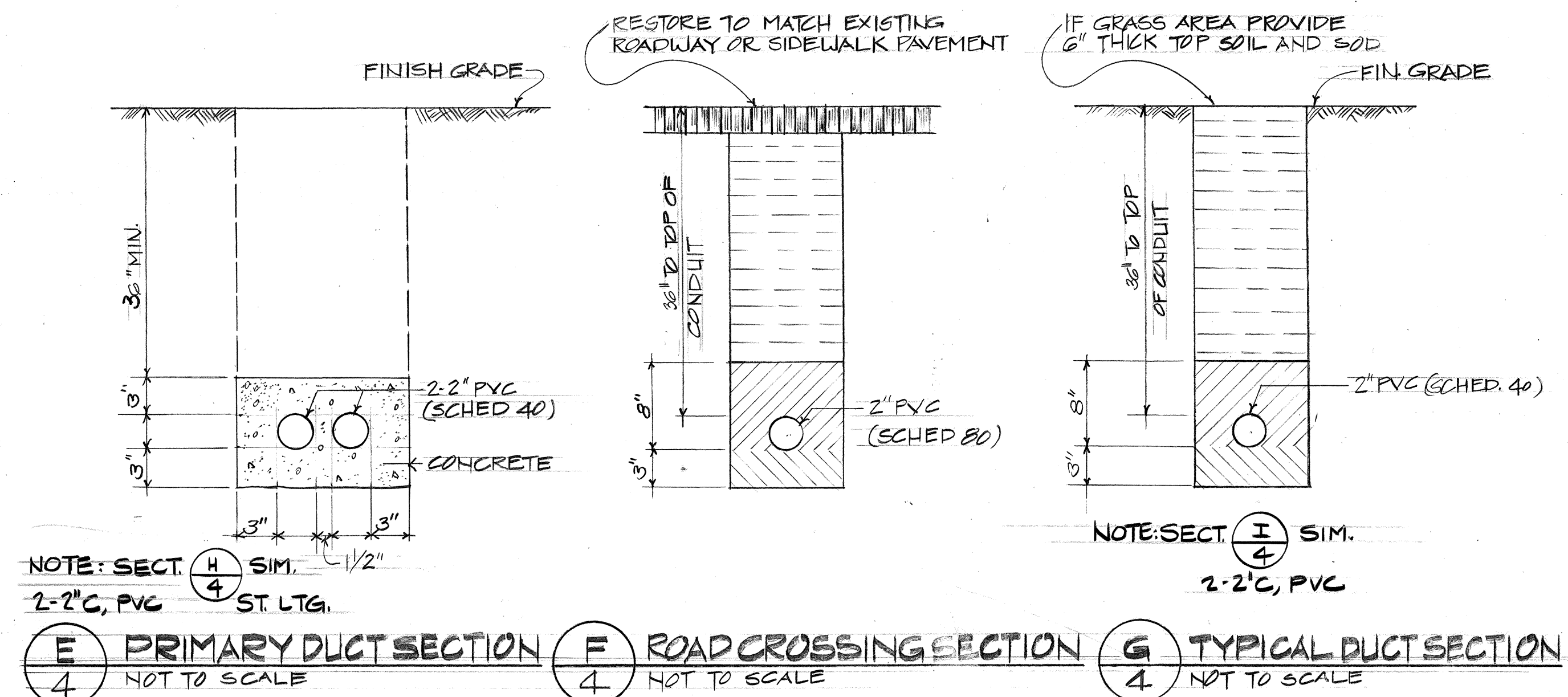
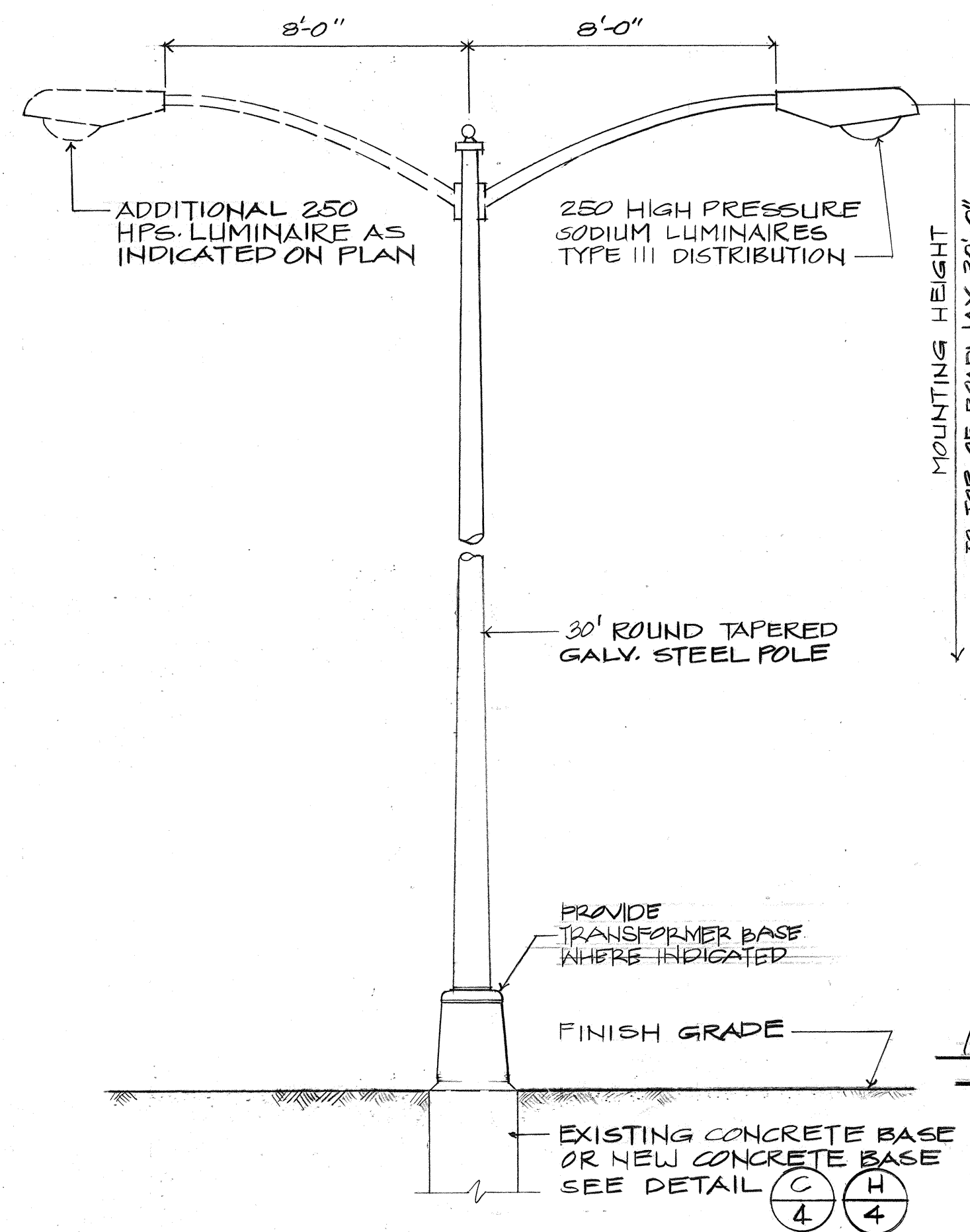
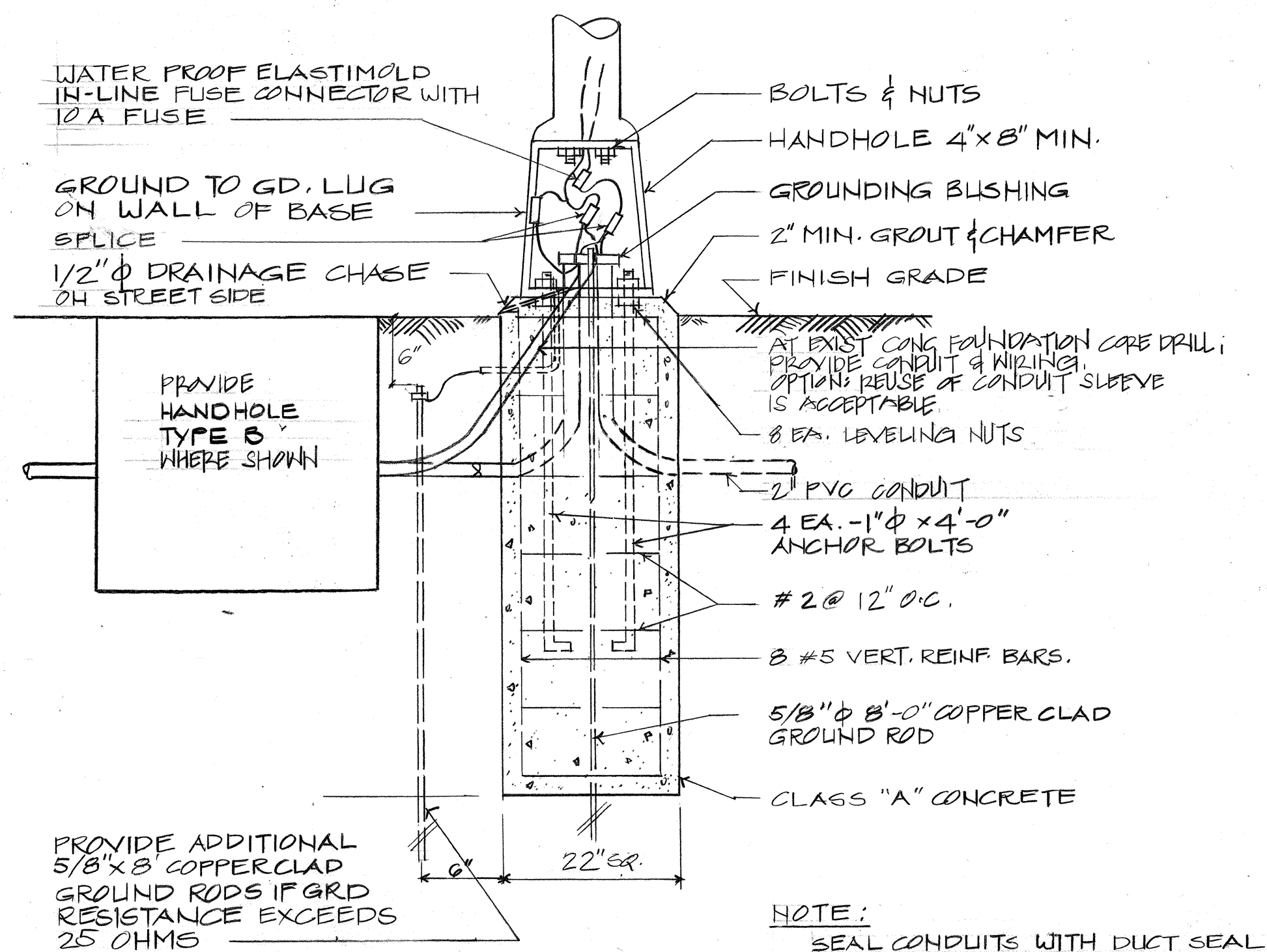
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(23)	1988	33	49



A
4 STREET LIGHT ON WOOD POLE DETAIL (LUMINAIRES #36 THRU 67, 72 AND 73 ONLY)
NOT TO SCALE

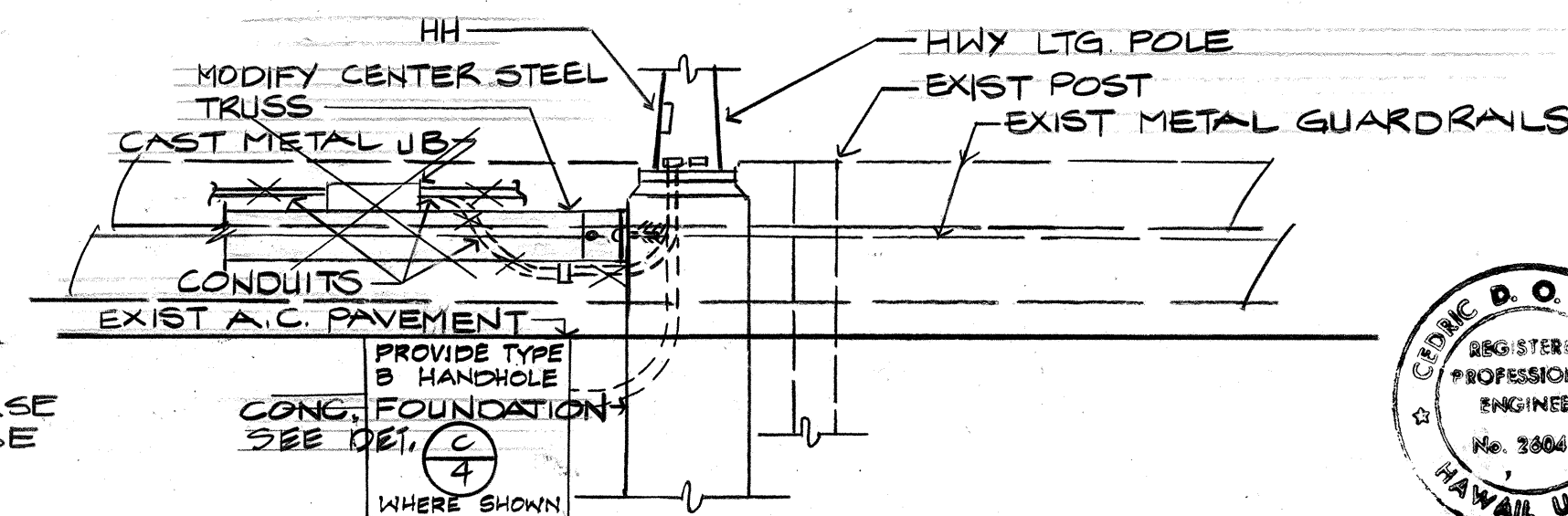
B
4 NO GLARE SHIELD REQ'D. - MEMO DATE 9-8-88
EXTERNAL GLARE SHIELD DETAIL
NOT TO SCALE



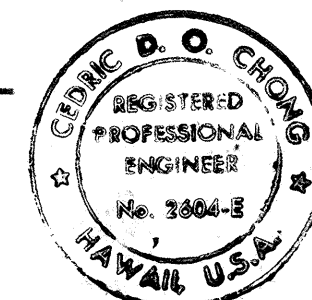
C
4 POLE BASE DETAIL
NOT TO SCALE

D
4 STREET LIGHT STANDARD
NOT TO SCALE

J
4 STREET LIGHT STANDARD
AT MEDIAN



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

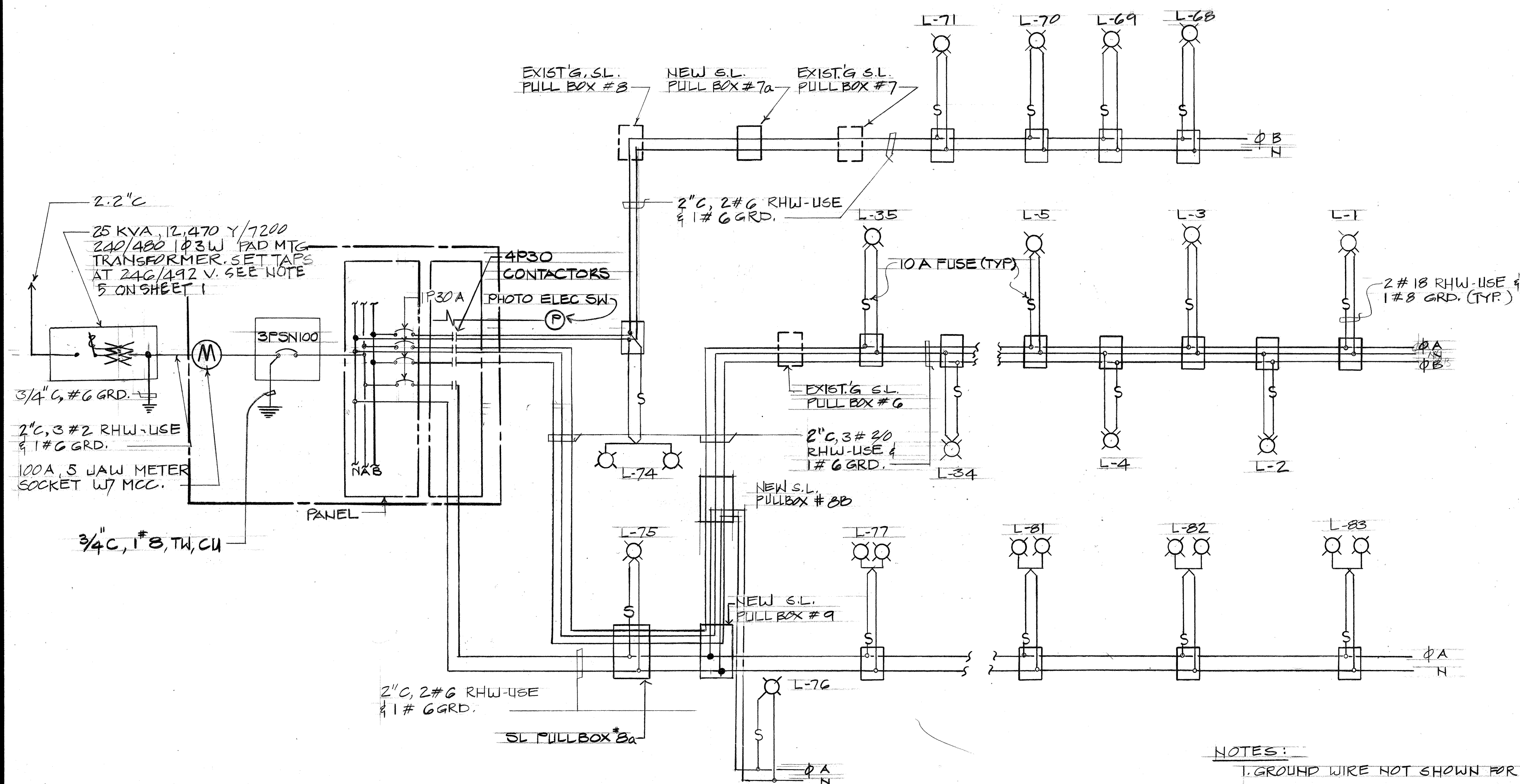
STREET LIGHT DETAILS

IMPROVEMENTS ALONG PALI HIGHWAY
BETWEEN NIOLOPA PL. & WAKAHAKA ST.
PROJECT NO. F-061-1(23)

SHEET NO. 4 OF 5 SHEETS

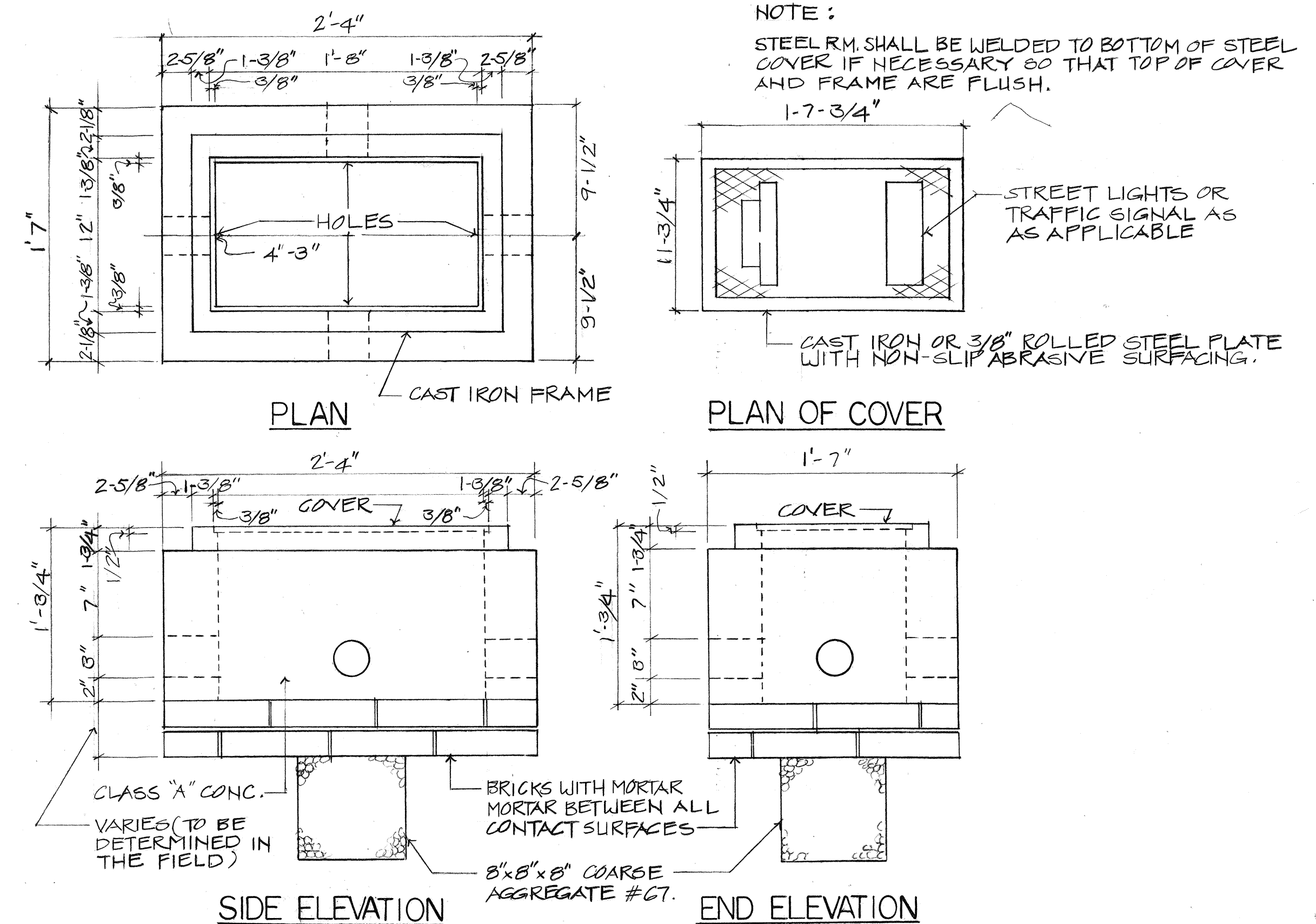
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-061-1(23)	1988	34	49



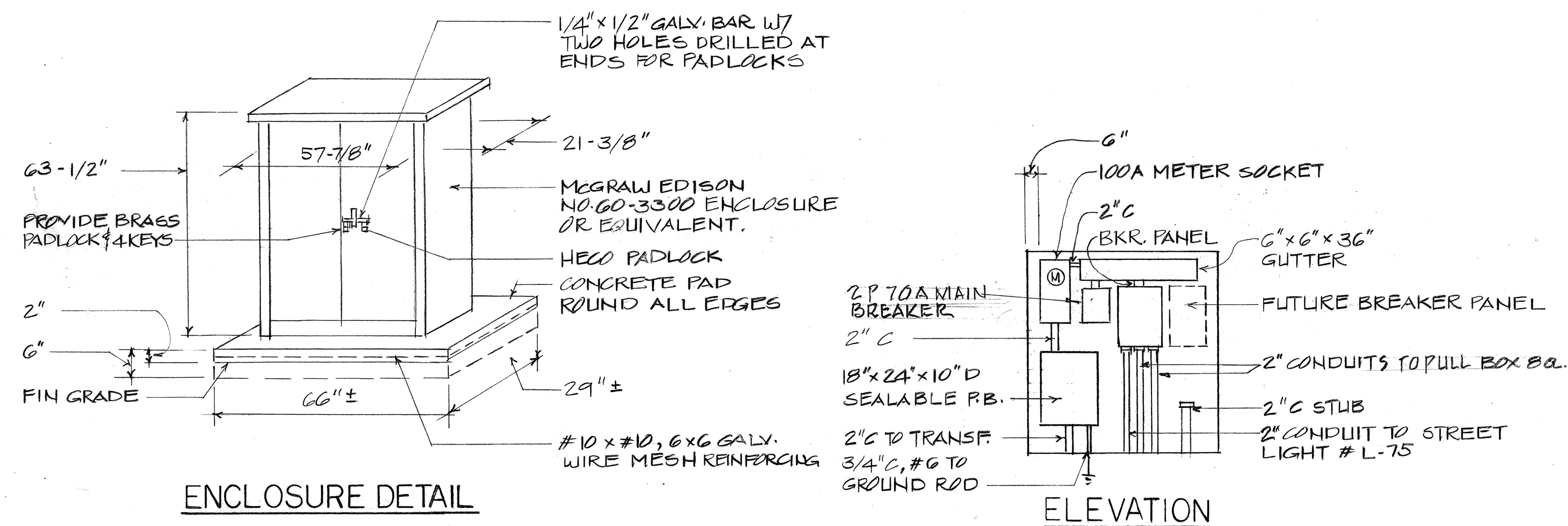
NOTES:

1. GROUND WIRE NOT SHOWN FOR CLARITY.
2. LUMINAIRES #36 TO #67, #72 AND #73 NOT SHOWN. (LUMINAIRE CONNECTED DIRECTLY TO HECO'S SECONDARY AERIAL CABLES ON JOINT POLES.)



STREET LIGHT SYSTEM ONE LINE DIAGRAM

NOT TO SCALE

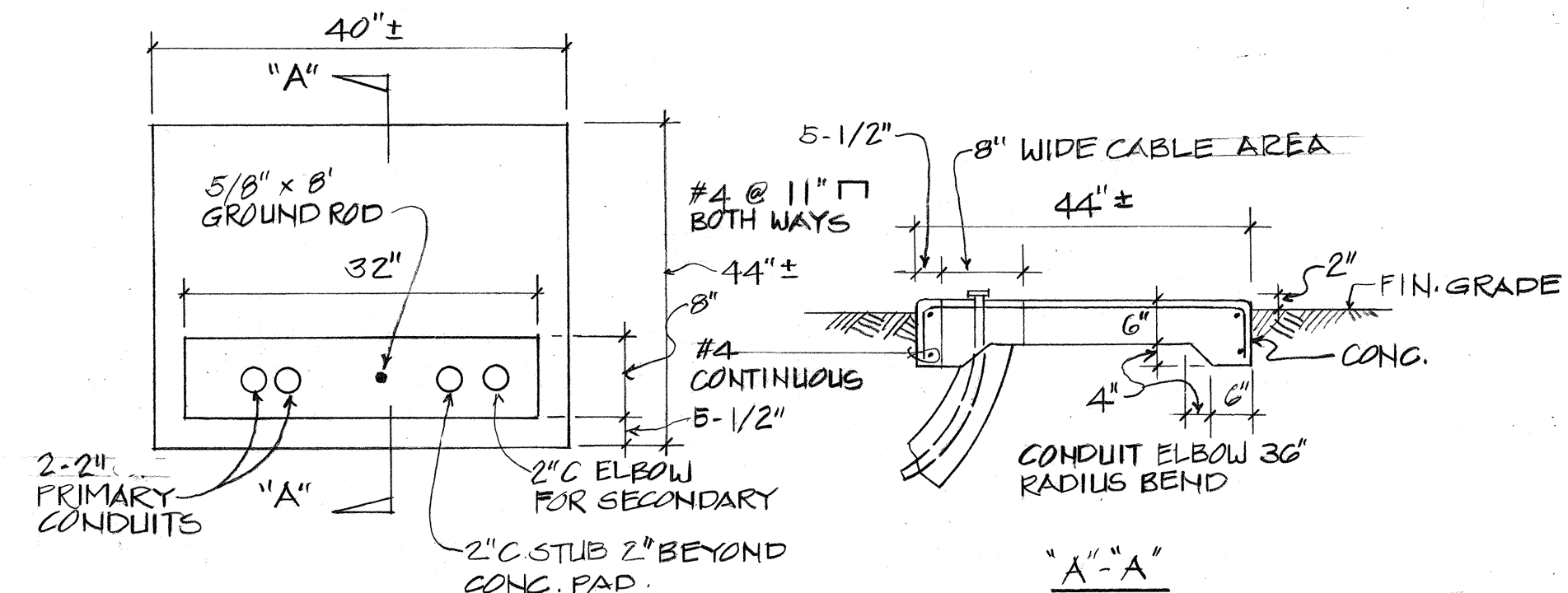


NOTES:

1. CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM HAWAIIAN ELECTRIC COMPANY FOR PAD MOUNT TRANSFORMER TO BE FURNISHED PRIOR TO ORDERING OF TRANSFORMER.
2. CONTRACTOR TO PROVIDE ONE SET OF SPARE PRIMARY FUSES FOR PAD MOUNT TRANSFORMER IN PRIMARY SECTION OF TRANSFORMER ENCLOSURE.

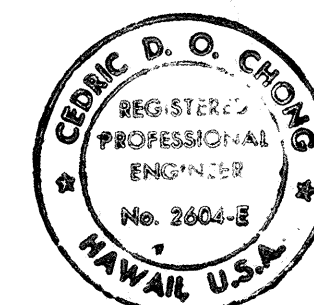
NOTES:

1. MOUNT EQUIPMENT ON EQUIPMENT MOUNTING RAILS.
DO NOT MOUNT EQUIPMENT DIRECTLY TO ENCLOSURE.
2. PAINT UNDER SURFACES OF EQUIPMENT ENCLOSURE
BEFORE INSTALLATION ON CONCRETE PAD. APPLY TWO
COATS OF ZINC EPOXY PAINT, COLOR TO MATCH ENCLOSURE.



NOTES:

1. VERIFY SIZE OF TRANSFORMER AND PAD. PROVIDE PAD TO SUIT EQUIPMENT FURNISHED.
2. SUBMIT SHOP DRAWING OF PAD BEFORE CONSTRUCTING DRAWING TO SHOW ALL DIMENSIONS, LOCATION OF ANCHOR BOLTS, CONDUITS ETC.



THIS WORK WAS PREPARED BY MR
OF UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

IMPROVEMENTS ALONG PALI HIGHWAY
BETWEEN NIOLOPA PL. & WAOKANAKA ST.
PROJECT NO F-06-1(23)

SHEET No. 5 OF 5 SHEETS