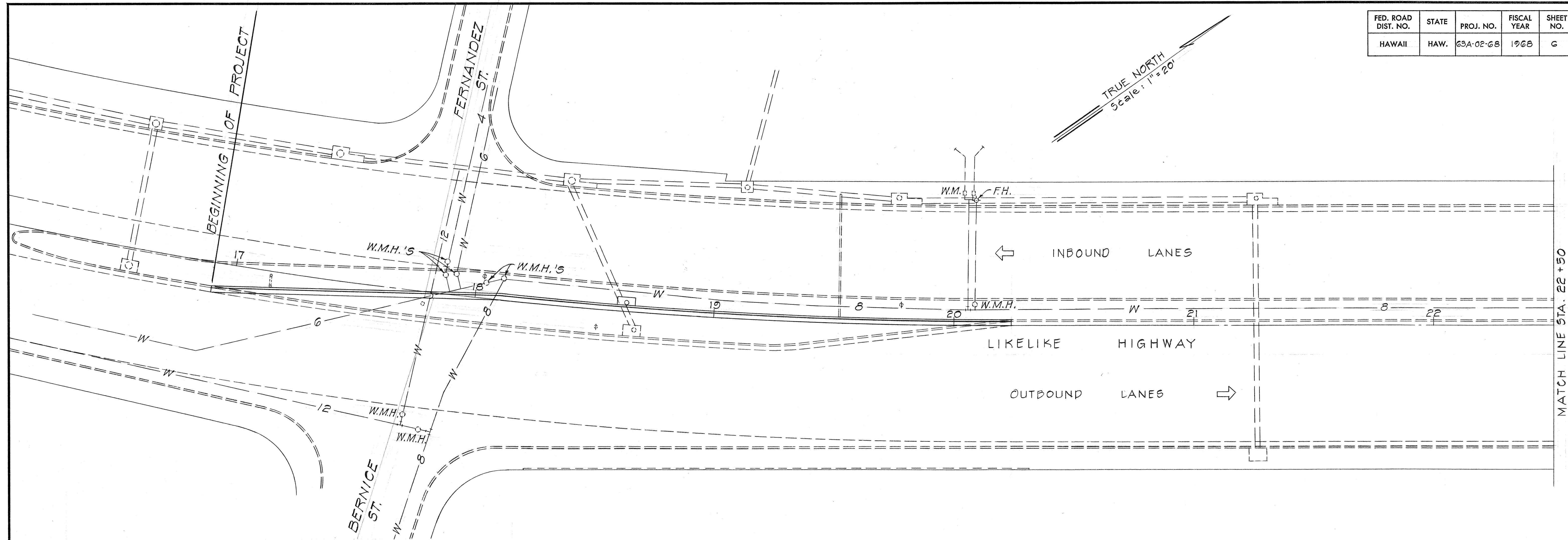


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-02-68	1968	C	31



GENERAL NOTES ~ WATER

1. All work on this project pertaining to the existing water system shall be done by the Board of Water Supply and paid for by the Dept. of Transportation, except as noted below in item 3.
2. The locations of existing water mains and appurtenances shown on the plans are approximate only. The Contractor shall check and verify the exact location and depth of same.
3. All excavation and backfill required for adjustment of existing water systems shall be done by the Contractor. Cost of this work shall be considered as incidental to the various items of work and no separate payment will be made.

GENERAL NOTES ~ ELECTRIC & TELEPHONE

1. The Contractor shall notify each utility in writing 10 working days prior to commencing work on their respective utility system.
2. Existing electric and telephone facilities shown on these plans are approximate only; the Contractor shall verify their actual locations and shall make adjustments to any new or existing facilities as directed by the Engineer.
3. Anchor holes shall be backfilled by the Contractor.
4. Existing utility cables remaining in place during construction shall be handled by the utility's men only. The Contractor shall exercise caution to avoid disturbances to the cables or temporary guards erected by the utility company.
5. Slope duct line to drain towards manhole.

APPROVED:

HAWAIIAN ELECTRIC CO., INC. DATE

HAWAIIAN TELEPHONE CO., LTD. DATE

CHIEF, ENGINEERING DIVISION, B.W.S. DATE

TRAFFIC ENGINEER, C&C OF HONOLULU DATE

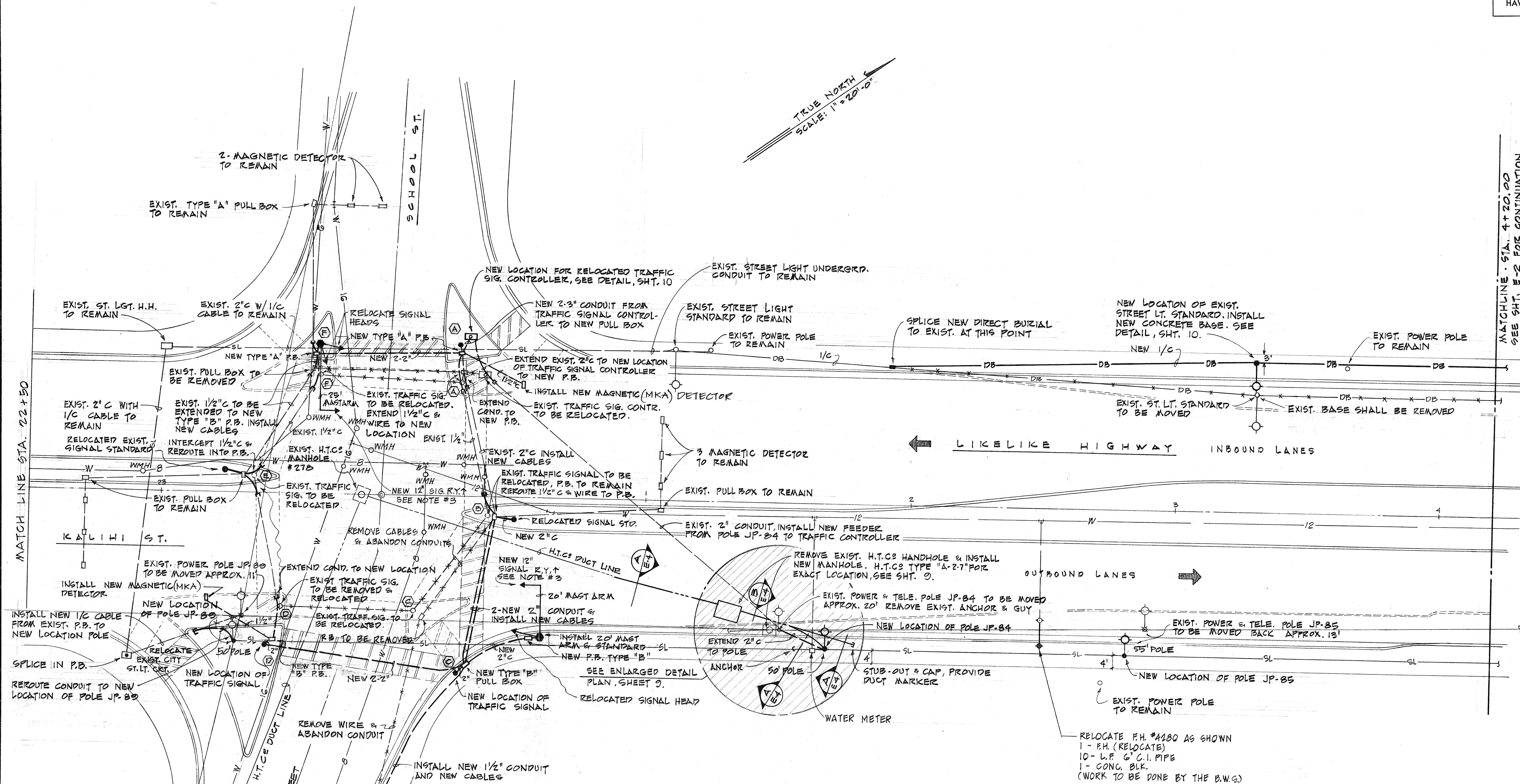
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UTILITY, SIGNAL SYSTEM &
LIGHTING LAYOUT PLAN
ADDITIONAL LANES ON LIKELIKE HIGHWAY
SCHOOL STREET TO KALIHI STREET
OAHU, HAWAII

PROJ. NO. 63A-02-68
SCALE: AS SHOWN

SHEET No. 1 OF 3 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-02-68	1968	7	31



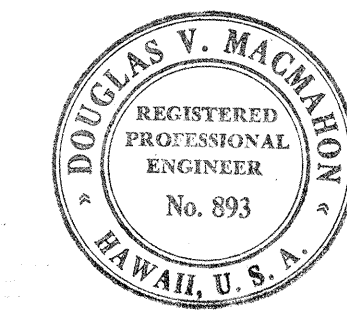
ELECTRICAL PLAN-KALIHU ST. STATION 22+50.00 TO LIKELIKE HWY. STATION 4+20.00
SCALE: 1" = 20'-0"

GENERAL NOTES: (TRAFFIC SIGNALS)

1. CONCRETE FOUNDATION OF EXISTING TRAFFIC SIGNAL STANDARDS SHALL BE REMOVED.
2. THE C&C WILL FURNISH NEW TRAFFIC SIGNAL STDS. (EXCEPT MAST ARM STDS.) & ANCHOR BOLTS. CONTRACTOR SHALL CONSTRUCT NEW TRAFFIC SIGNAL FOUNDATIONS & PICK UP & INSTALL NEW CITY FURNISHED EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE C&C DEPT. OF TRAFFIC, THREE (3) DAYS PRIOR TO WORKING ON THE SIGNAL SYSTEM.
3. THE MAST ARMS & STANDARDS FOR MAST ARMS SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR, & THE TRAFFIC LIGHT HEAD TO BE FURNISHED BY THE C&C & SHALL BE INSTALLED BY THE CONTRACTOR.
4. EXISTING STANDARDS OF SIGNALS TO BE RELOCATED SHALL BE REMOVED, CLEANED AND DELIVERED TO THE C&C DEPT. OF TRAFFIC BASE YARD. COST TO BE INCIDENTAL TO "TRAFFIC SIGNAL SYSTEM."

5. THE CONTRACTOR SHALL SCHEDULE THE RELOCATION OF TRAFFIC SIGNAL & HIGHWAY LIGHTING SYSTEMS TO KEEP ALL LIGHTS & SIGNALS IN OPERATION AT ALL TIMES.

TRAFFIC ENGINEER, C. & C. OF HON.	DATE
<i>AD Henderson</i> HAWAIIAN ELECTRIC CO.	10-14-68 DATE
<i>W. J. Quill</i> HAWAIIAN TELEPHONE CO.	10-14-68 DATE
CHIEF, ENGINEERING DIV., B.W.S.	DATE



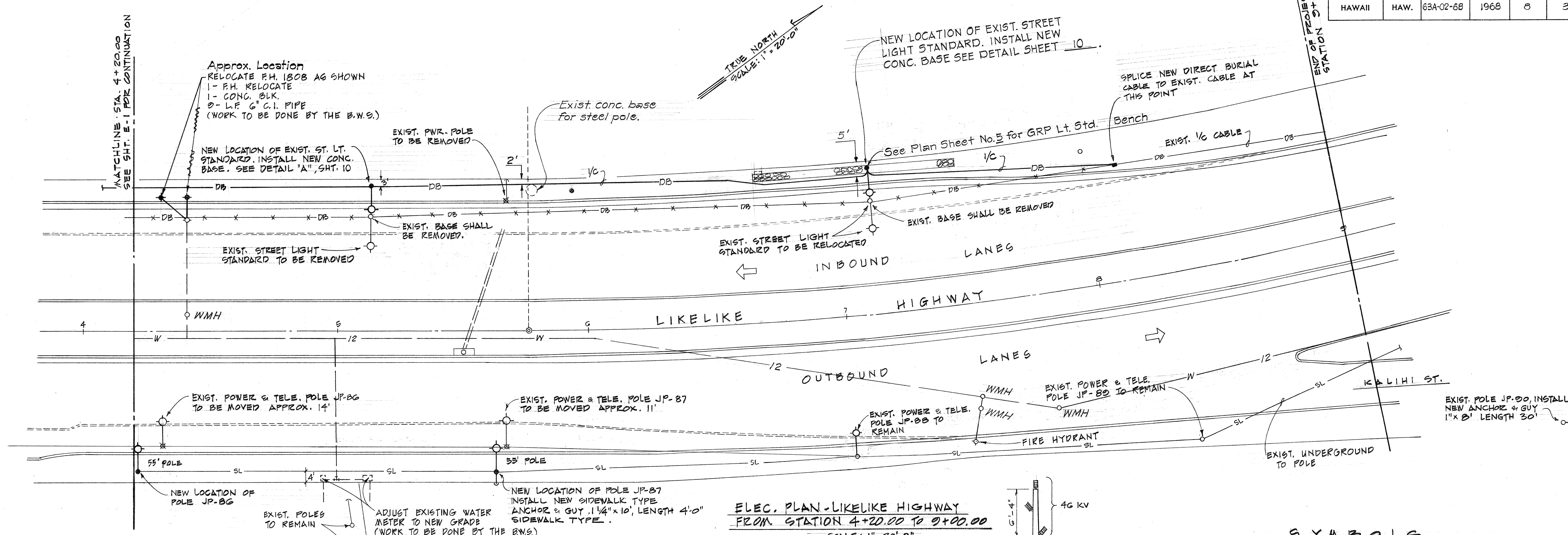
Douglas V. Macdonald
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UTILITY, SIGNAL SYSTEM &
LIGHTING LAYOUT PLAN
ADDITIONAL LANES ON LIKELIKE HIGHWAY
SCHOOL STREET TO KALIHU STREET
OAHU, HAWAII

PROJ. NO. 63A-02-68
SCALE: AS SHOWN

DATE	10-14-68
DESIGNED BY	AD Henderson
DRAWN BY	W. J. Quill
CHECKED BY	W. J. Quill
NOTED BY	
NO.	

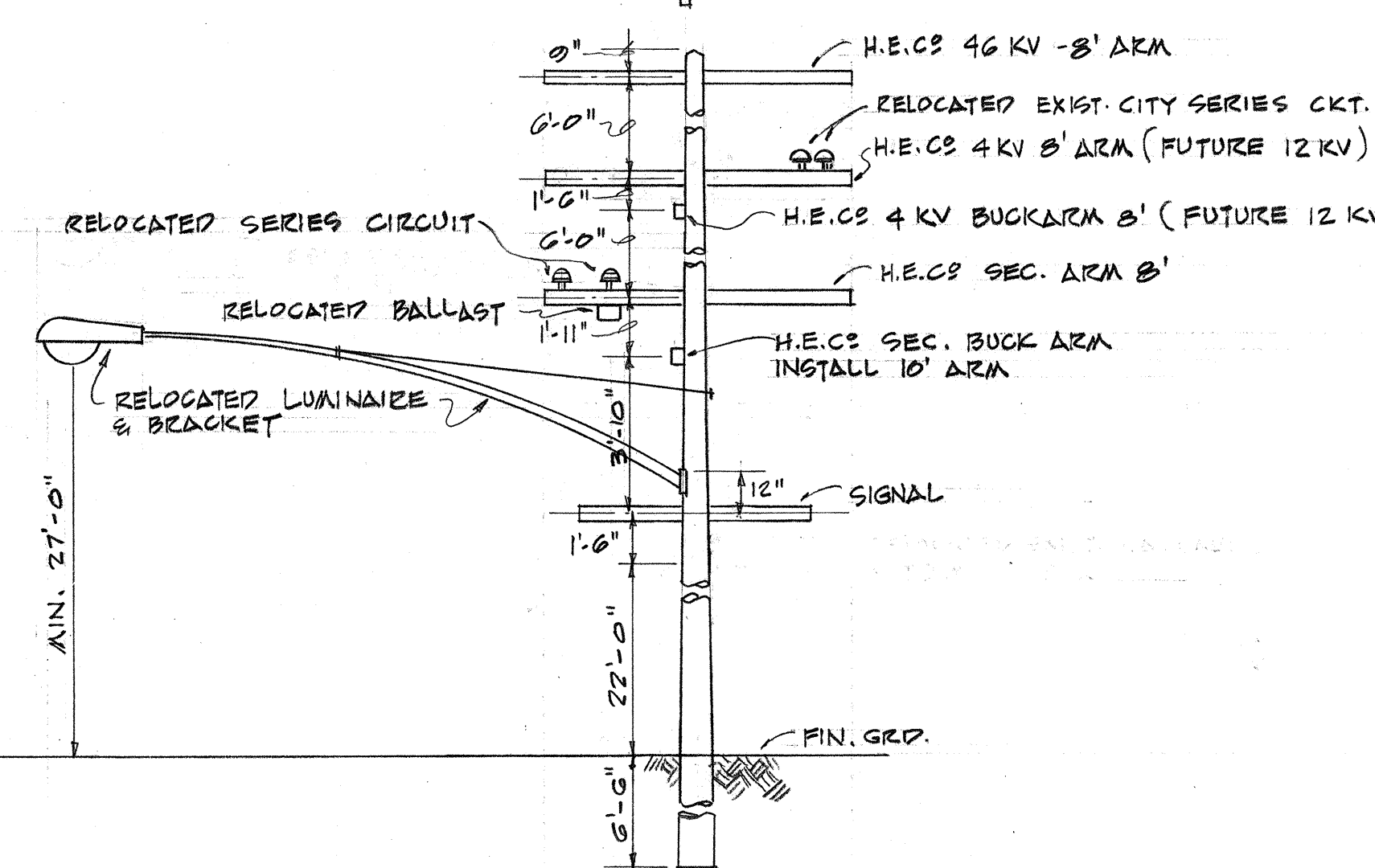
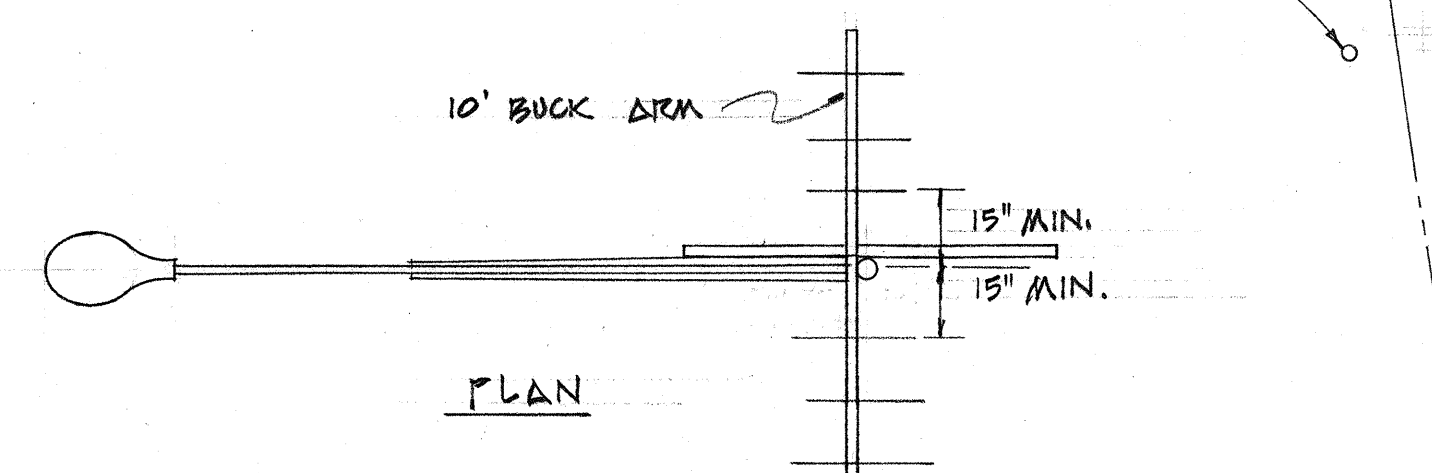
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-02-68	1968	8	31



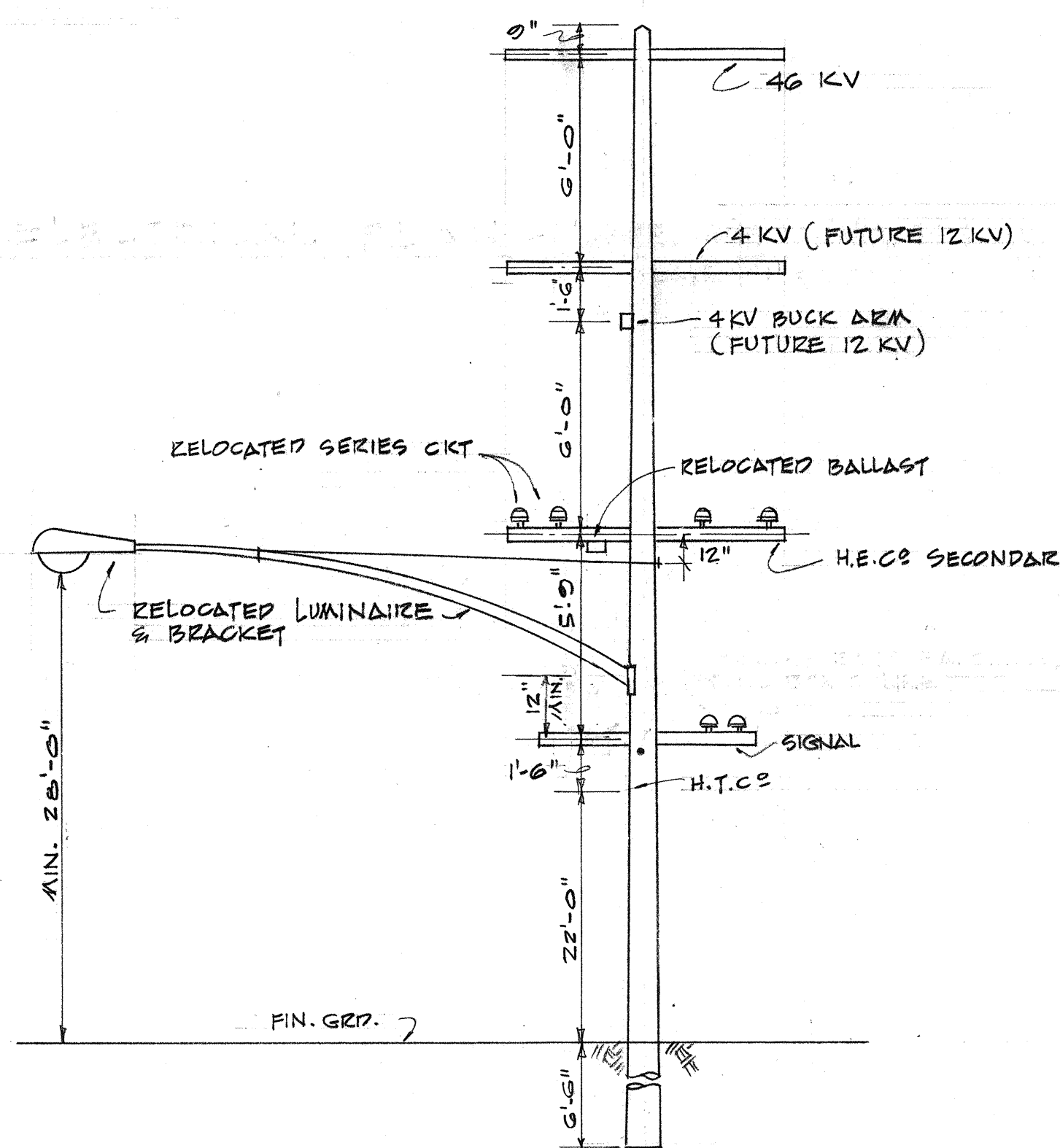
ELEC. PLAN - LIKELIKE HIGHWAY
FROM STATION 4+20.00 TO 9+00.00
SCALE: 1" = 20'-0"

SYMBOLS

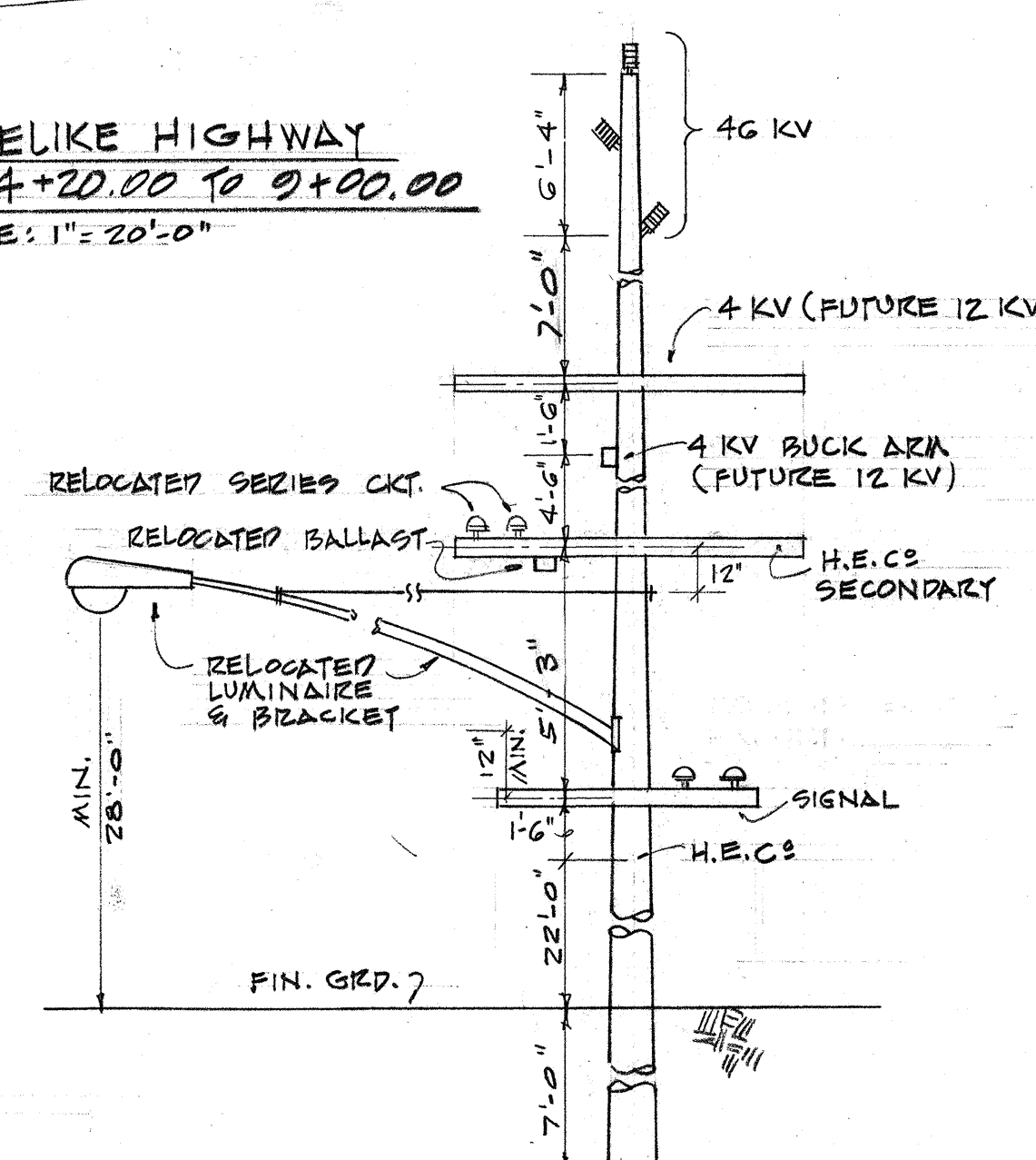
- EXISTING STREET LIGHT ON POLE TO BE RELOCATED.
- EXISTING RELOCATED STREET LIGHT POLE IN NEW LOCATION.
- EXISTING DIRECT BURIAL CABLE TO BE REMOVED OR ABANDONED.
- DB NEW SINGLE CONDUCTOR DIRECT BURIAL CABLE
- EXISTING UNDERGROUND CONDUIT TO BE REMOVED OR ABANDONED.
- NEW UNDERGROUND CONDUIT
- EXISTING UNDERGROUND CONDUIT TO BE RE-USED
- EXISTING PULL BOX (PB)
- NEW PULL BOX (PB)



DETAIL "A" POLE NO. JP-80(A)
SCHOOL STREET



DETAIL "B" POLE NO. JP-84
LIKELIKE HWY.



DETAIL "C" 35' POLES
LIKELIKE HWY.

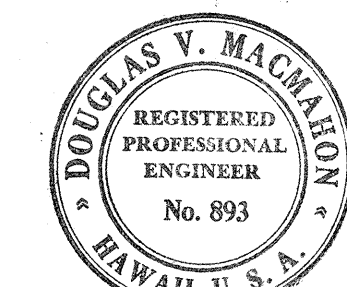
APPROVED

TRAFFIC ENGINEER, C&C OF HON.
HAWAIIAN ELECTRIC CO.
HAWAIIAN TELEPHONE CO.

DATE
10-14-68
DATE
10-14-68
DATE

CHIEF, ENGINEERING DIV., B.W.S.

DATE



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
UTILITY, SIGNAL SYSTEM &
LIGHTING LAYOUT PLAN
ADDITIONAL LANES ON LIKELIKE HIGHWAY
SCHOOL STREET TO KALIHI STREET
OAHU, HAWAII

PROJ. NO. 63A-02-68
SCALE: AS SHOWN

SHEET No. 3 OF 3 SHEETS

REINSTALLING EXIST. LUMINAIRE & BRACKET ON NEW POLE
NOT TO SCALE