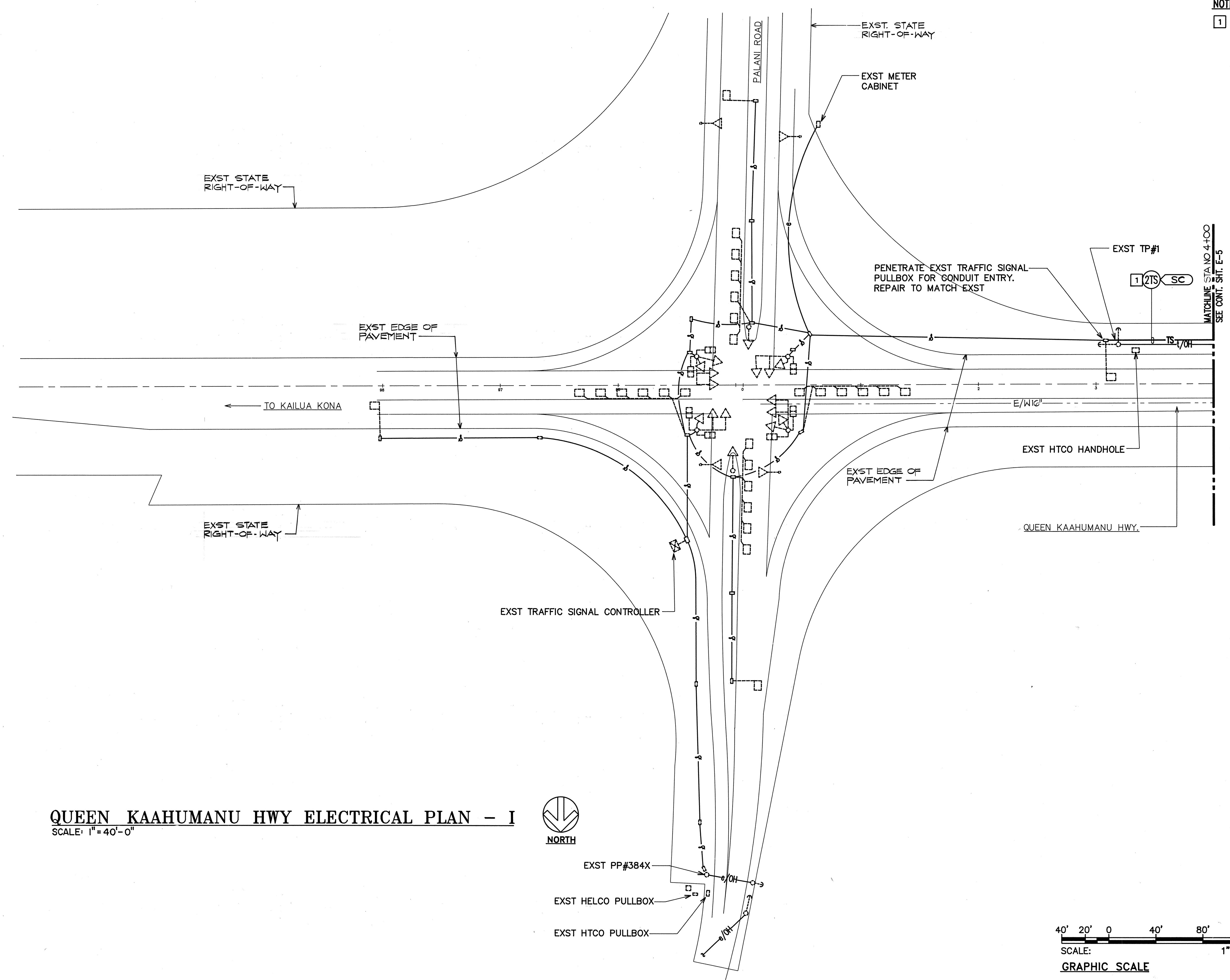
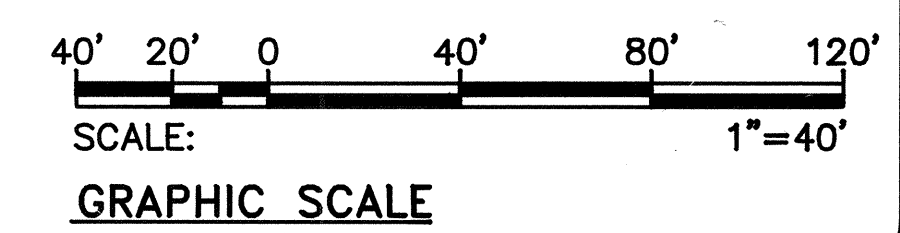


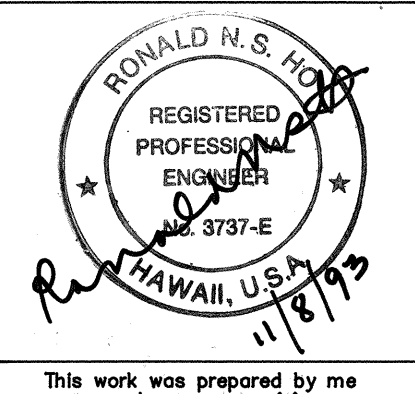
NOTES:
1 2" C WITH PULLWIRE.



QUEEN KAAHUMANU HWY ELECTRICAL PLAN - I
SCALE: 1" = 40'-0"



Rev	Date	Description	Eng	App



BELT COLLINS
H A W A I I
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Electrical Engineers
2138 Algoroba Street, Suite A Honolulu, Hawaii 96826
Phone: (808)941-0577 Fax: (808)945-2646

Client: **KIM KONA PARTNERS**
PALUHI TOWER, SUITE 1410
1001 BISHOP STREET
HONOLULU, HAWAII 96813
PHONE: 545-7722
FAX: 545-7725

MAKALAPUA
QUEEN KAAHUMANU HIGHWAY AND
MAKALAPUA BLVD. INTERSECTION
QUEEN KAAHUMANU HWY. ELECTRICAL PLAN-I

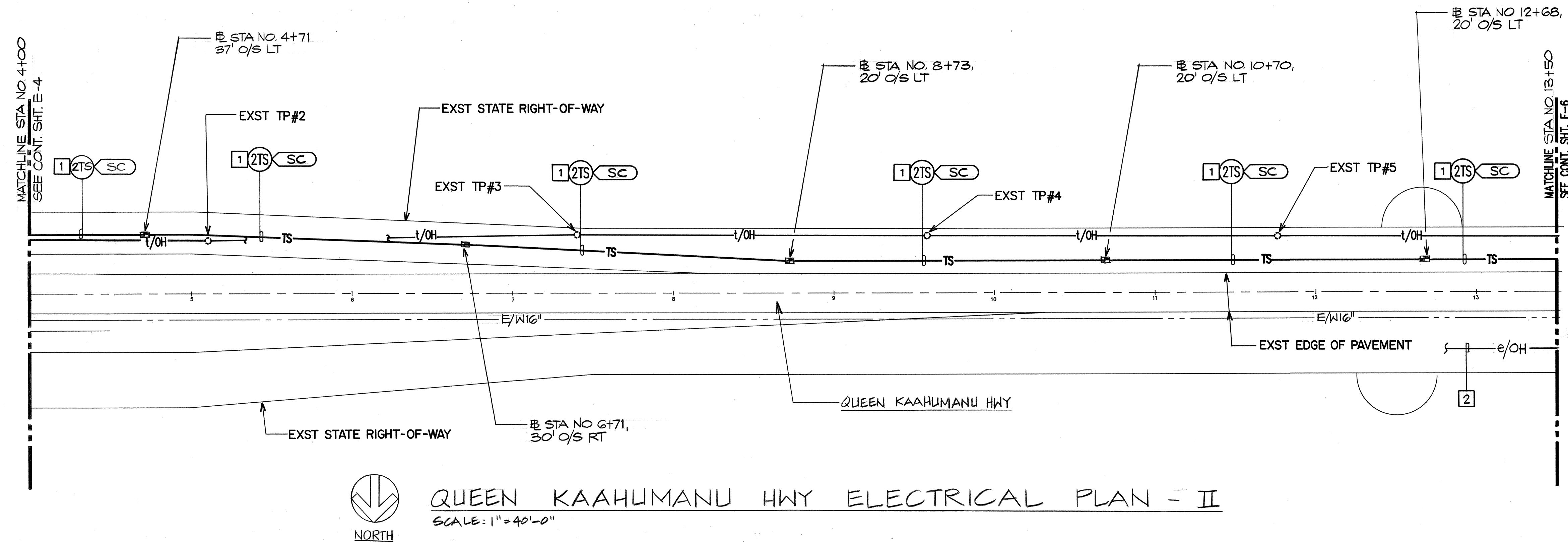
Designed By: **SI** Drawn By: **LRA**
Project No. **333.5000** Date: **OCTOBER 1993**
Approved By: *[Signature]* Date: *[Signature]*
HAWAII ELECTRIC LIGHT COMPANY
HAWAIIAN TELEPHONE COMPANY

FILE	POCKET	FOLDER	NO.

Printed: 11/07/93 10:28:24
by: J. W. H. / J. W. H.

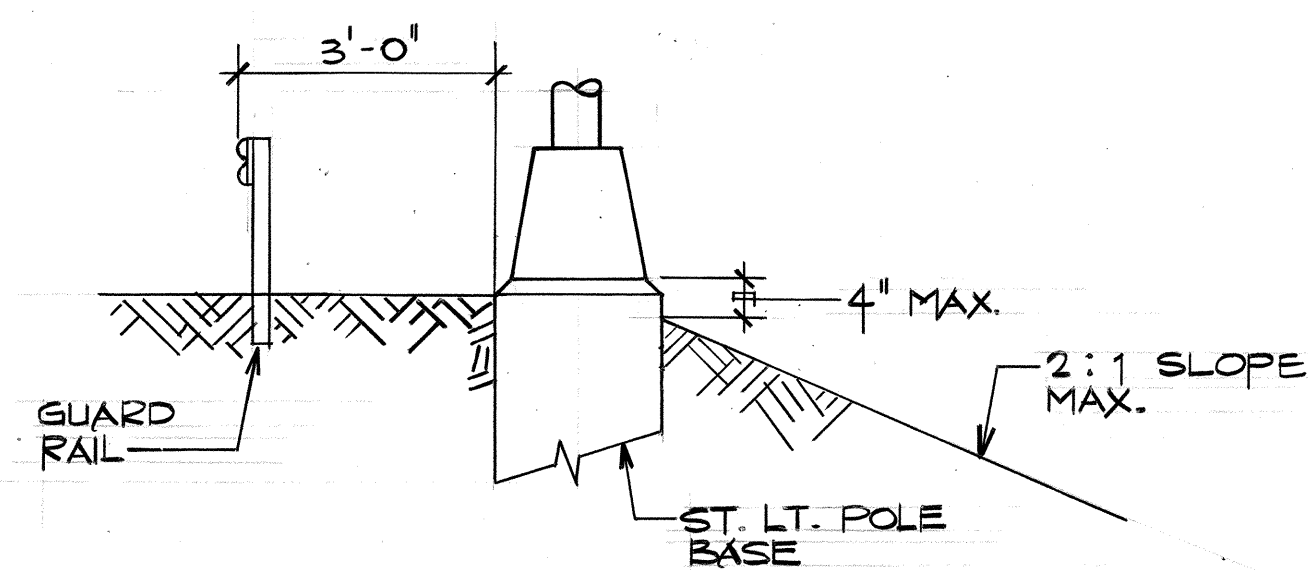
NOTES:

- 1 2" C WITH PULLWIRE.
- 2 HELCO 12.47KV & 69KV CABLES

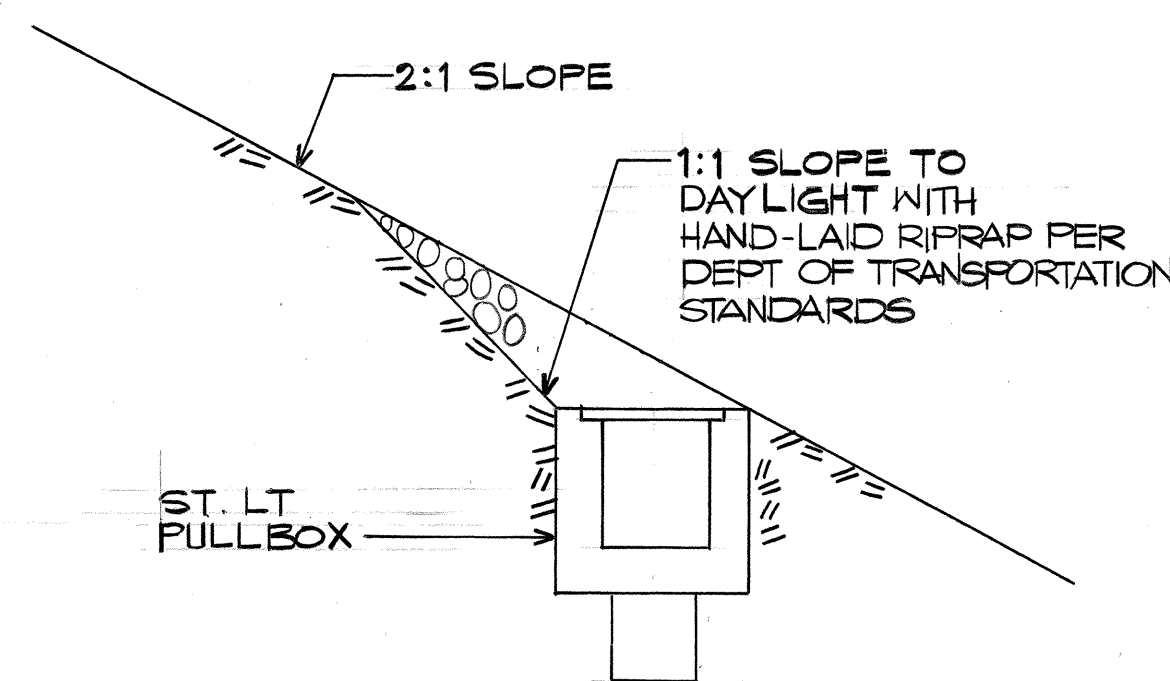


QUEEN KAAHUMANU HWY ELECTRICAL PLAN - II

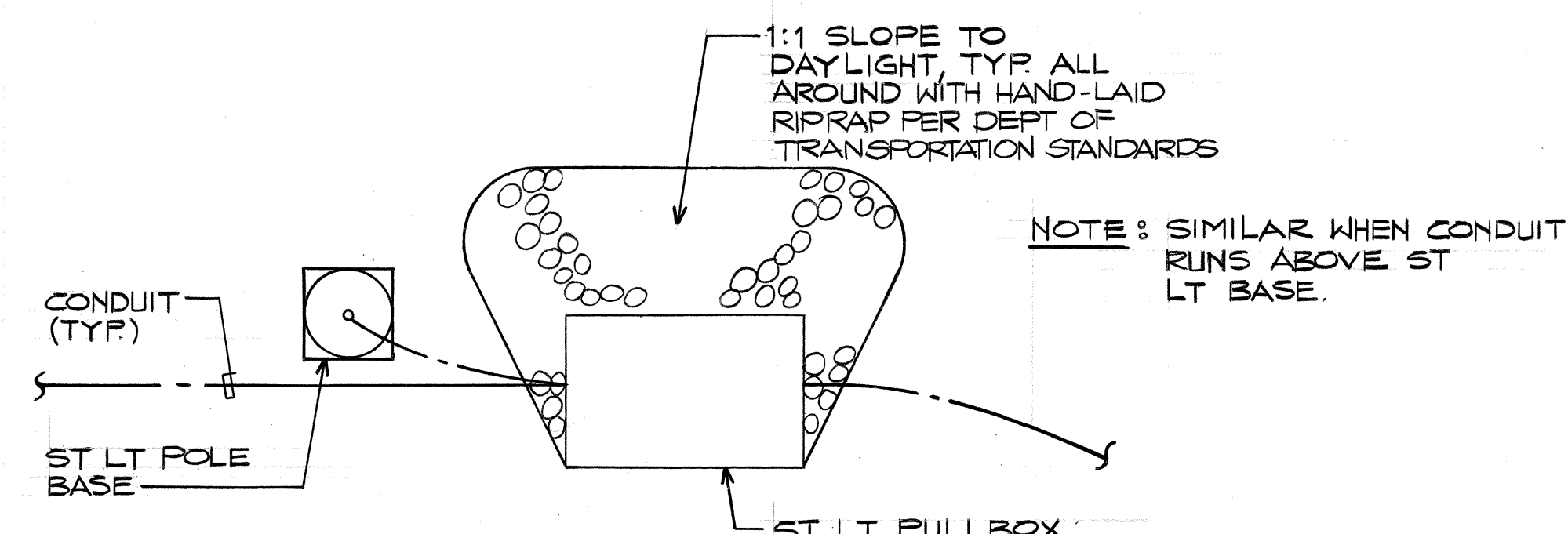
SCALE: 1" = 40'-0"



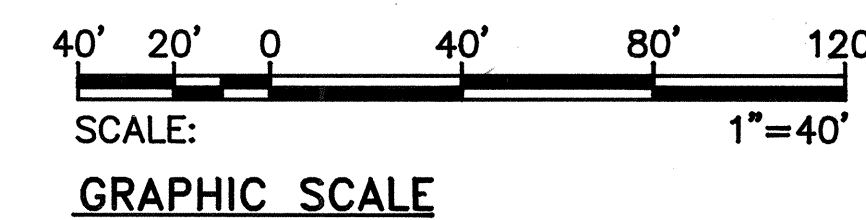
TYPICAL GRADING SECTION THRU
ST. LIGHT POLE BASE AT 2:1 SLOPE
A
E-5
N.T.S.



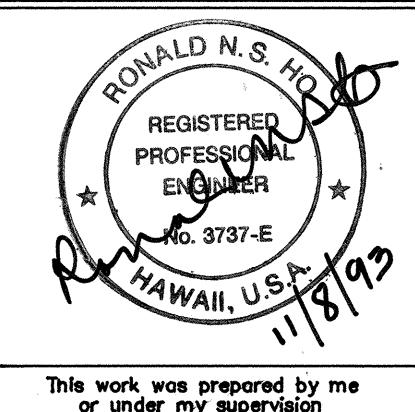
TYPICAL GRADING SECTION THRU
ST. LIGHT PULLBOX AT 2:1 SLOPE
B
E-5
N.T.S.



TYPICAL GRADING PLAN AROUND ST. LIGHT
BASE AND PULLBOX AT 2:1 SLOPE
C
E-5
N.T.S.



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BELT COLLINS
HAWAII
880 Ala Moana Blvd. First Floor Honolulu, Hawaii 96813
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2138 Alameda Street, Suite A Honolulu, Hawaii 96826
Phone: (808)941-0577 Fax: (808)945-2646

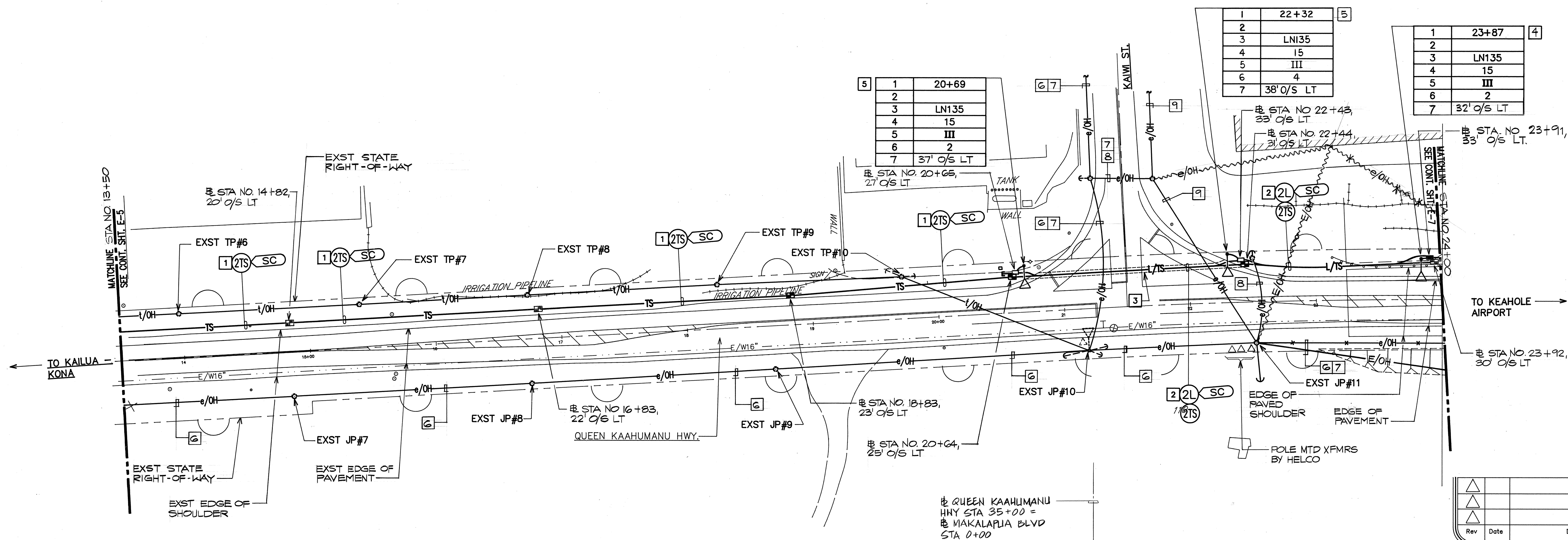
Client: **KM KONA PARTNERS**
PALAH TOWER, SUITE 1410
1001 BISHOP STREET
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PHONE: 545-7722
FAX: 545-7725

MAKALAPUA
QUEEN KAAHUMANU HIGHWAY AND
MAKALAPUA BLVD. INTERSECTION
QUEEN KAAHUMANU HWY. ELECTRICAL PLAN - II

Designed By: **SI** Drawn By: **LRA**
Project No. **333.5000** Date: **OCTOBER 1993**

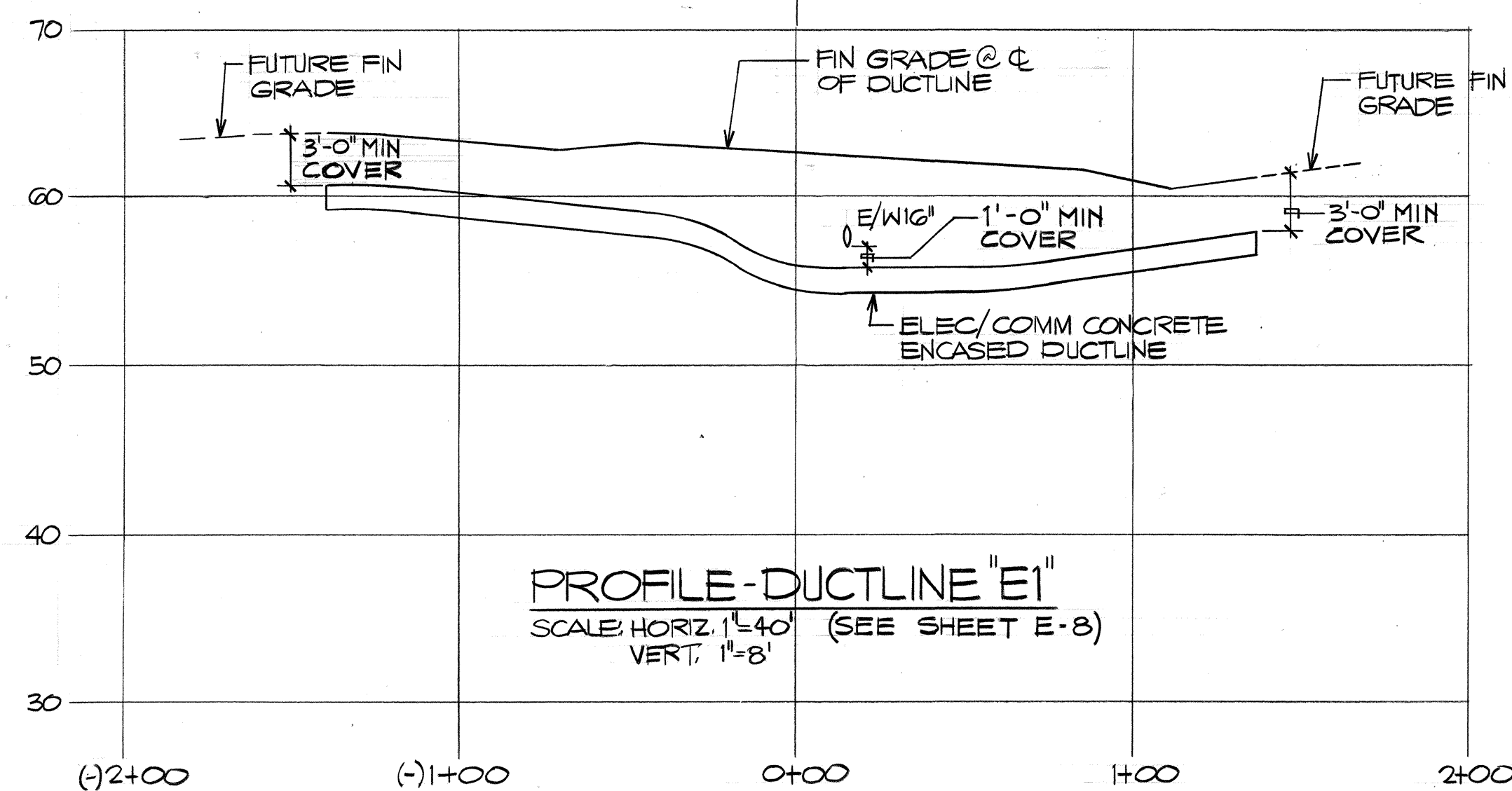
Approved By: *[Signature]* Date: *5/2/94*
HAWAIIAN ELECTRIC LIGHT COMPANY
HAWAIIAN TELEPHONE COMPANY

3-10-94
Date

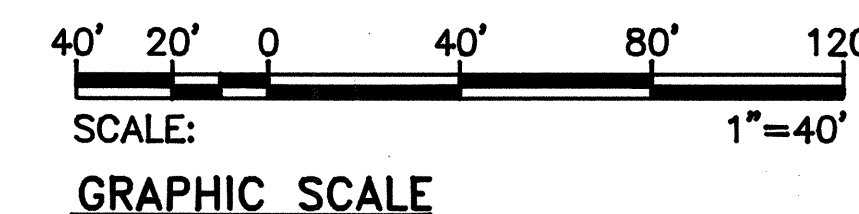


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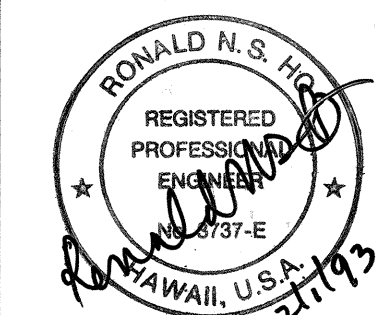
- 1 2" C WITH PULLWIRE
- 2 2" C WITH 3#1 RHW-USE & #2 GND; 2" C WITH PULLWIRE.
- 3 SAWCUT EXST. AC PAVEMENT FOR CONDUIT INSTALLATION. REPAIR TO MATCH EXST.
- 4 MIN. 3'-0" CLEAR FROM ROADSIDE FACE OF GUARDRAIL.
- 5 MIN. 2'-0" CLEAR FROM EDGE OF PAVED SHOULDER.
- 6 HELCO 12.47KV & 69KV CABLES.
- 7 HTCO CABLES.
- 8 UTILITY CO GUY WIRES.
- 9 HELCO 69KV CABLES.



QUEEN KAAHUMANU HWY ELECTRICAL PLAN - III
SCALE: 1"=40'-0"



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BELT COLLINS ENGINEERING PLANNING LANDSCAPE ARCHITECTURE ENVIRONMENTAL CONSULTING

880 Ala Moana Blvd. First Floor Honolulu, Hawaii 96813
Phone: (808)521-5361 Fax: (808)530-7819

Consultant: **RONALD N. S. HO & ASSOCIATES, INC.**
Electrical Engineers
2136 Algoroba Street, Suite A Honolulu, Hawaii 96826
Phone: (808)941-0577 Fax: (808)945-2646

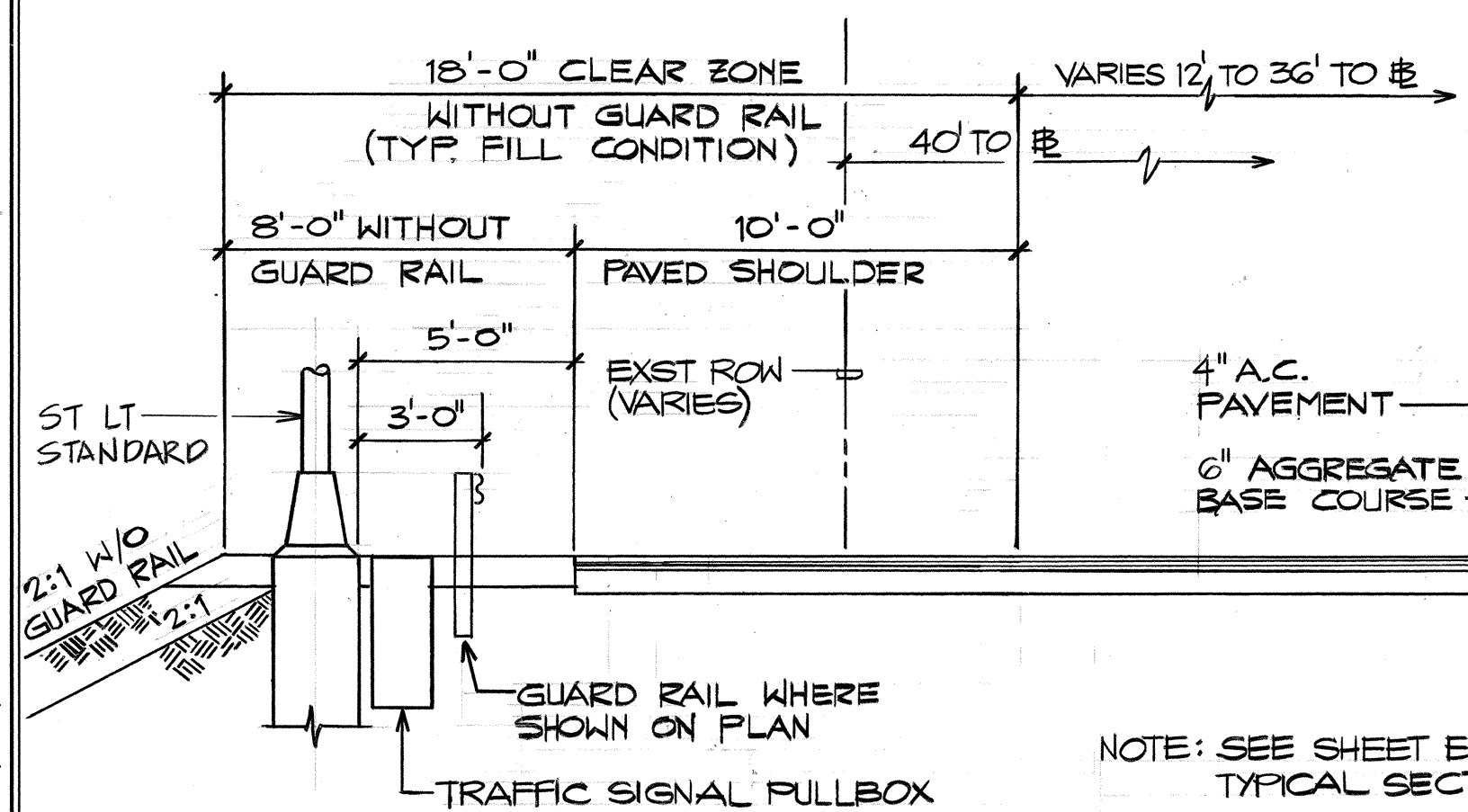
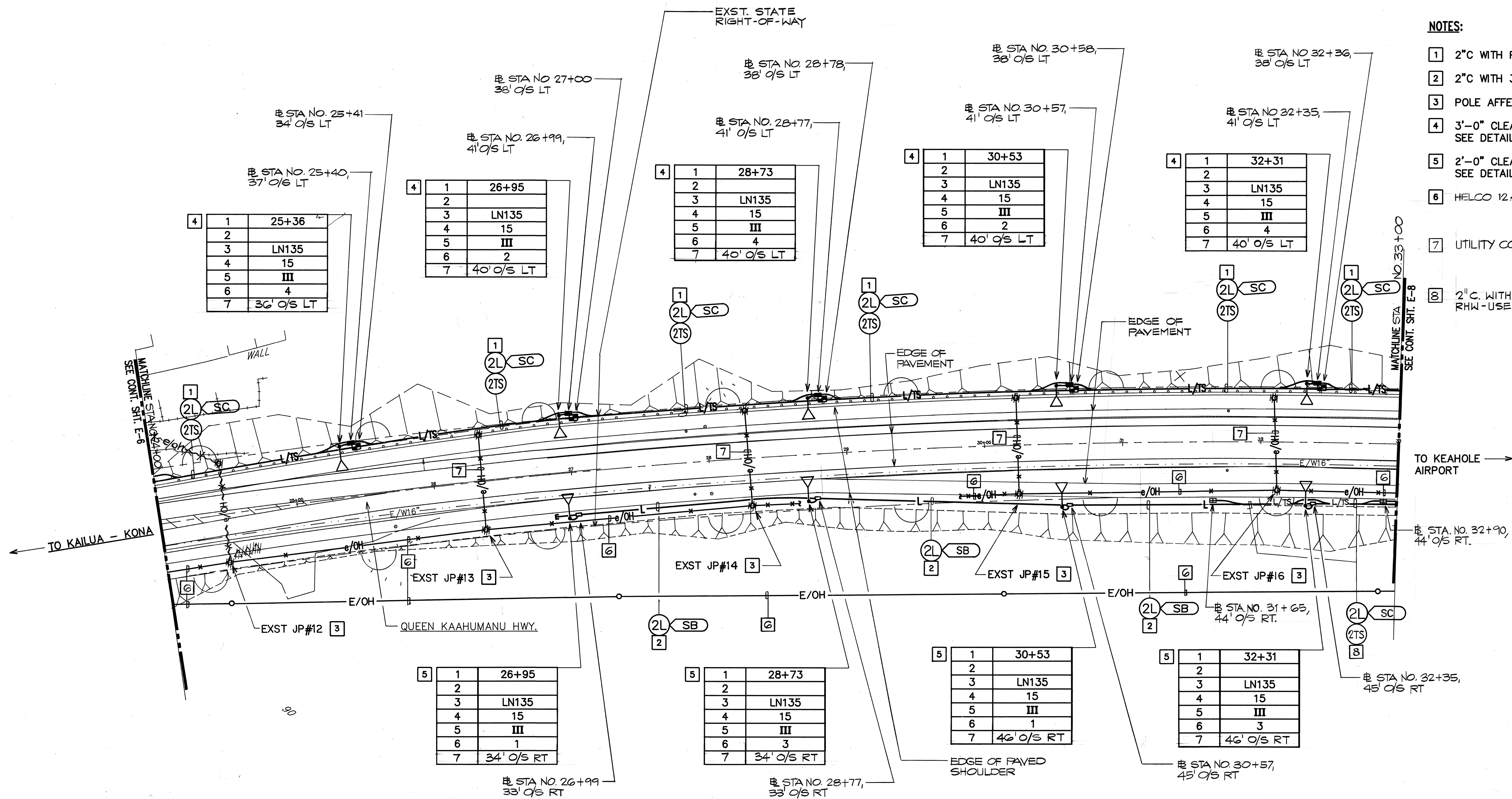
Client: **KM KONA PARTNERS**
PAUHI TOWER, SUITE 1410
1001 BISHOP STREET
HONOLULU, HAWAII 96813
PHONE: 545-7722
FAX: 545-7725

MAKALAPUA
QUEEN KAAHUMANU HIGHWAY AND
MAKALAPUA BLVD. INTERSECTION
QUEEN KAAHUMANU HWY. ELECTRICAL PLAN - III

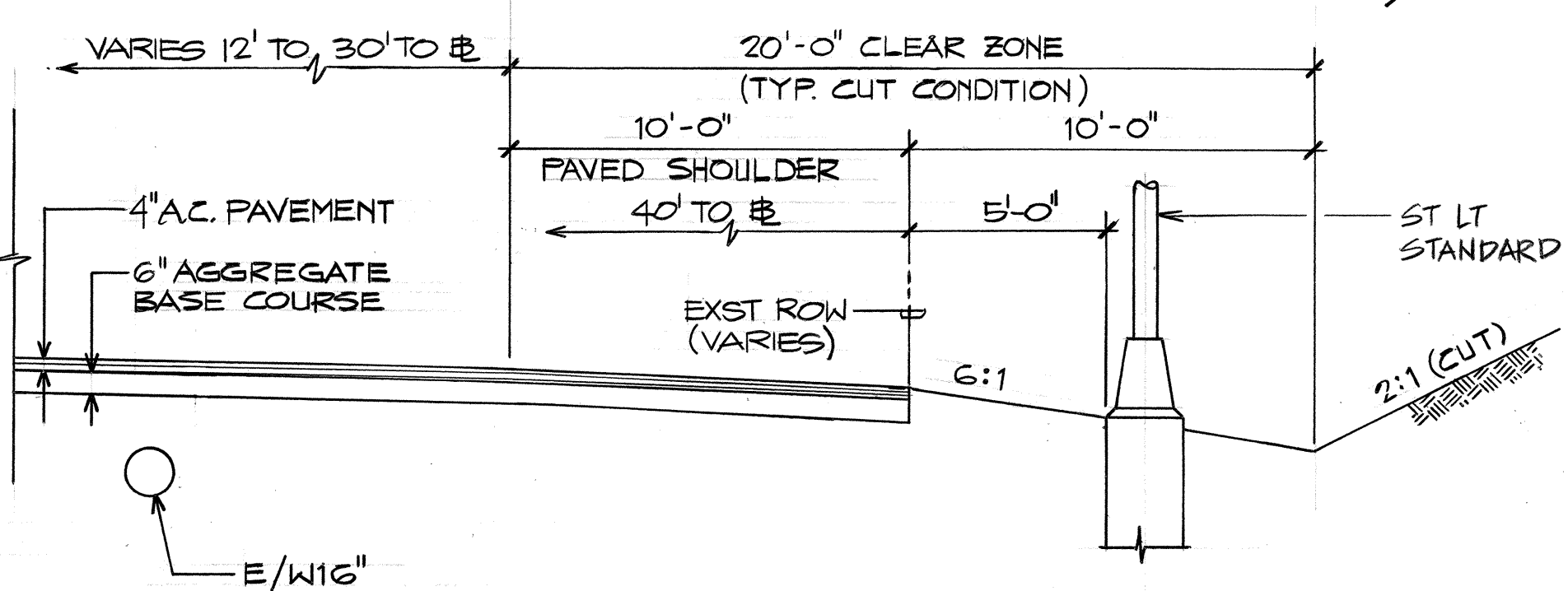
Designed By: **SI** Drawn By: **SI**
Project No. **333.5000** Date: **OCTOBER 1993**

Approved By: *[Signature]* Date: *[Signature]*
HAWAII ELECTRIC LIGHT COMPANY
HAWAIIAN TELEPHONE COMPANY

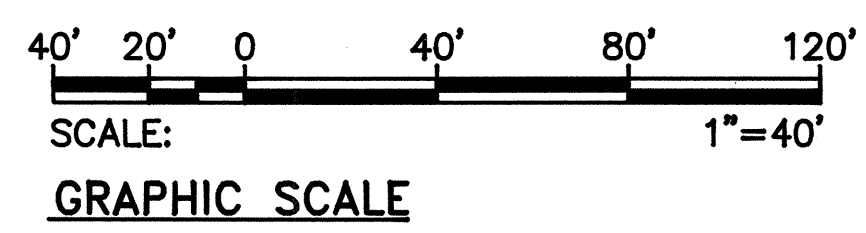
FILE	POCKET	FOLDER	NO.



QUEEN KAAHUMANU HWY ELECTRICAL PLAN - IV SCALE: 1"=40'-0"



TYPICAL SECTION - QUEEN KAAHUMANU HWY SCALE: 1/4" = 1'-0" (AT STREET LIGHT STANDARDS)



Rev	Date	Description	Eng	App

RONALD N. S. HO
REGISTERED PROFESSIONAL ENGINEER
STATE OF HAWAII, U.S.A.
12/1/92

This work was prepared by me or under my supervision.

BELT COLLINS

HAWAII

880 Ala Moana Blvd. First Floor Honolulu, Hawaii 96813
Phone: (808)521-6361 Fax: (808)528-7818

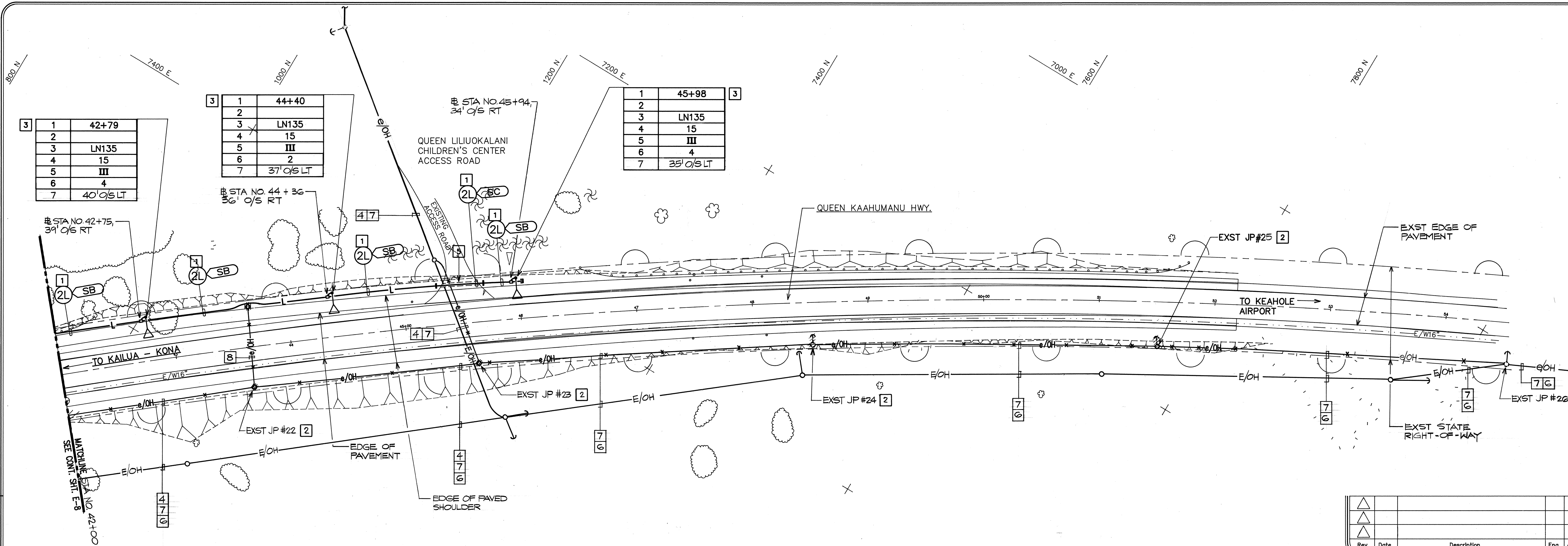
Consultant: **RONALD N. S. HO & ASSOCIATES, INC.**
Electrical Engineers
2138 Alagorda Street, Suite A Honolulu, Hawaii 96826
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Client: **KIM KONA PARTNERS**
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1001 BISHOP STREET
HONOLULU, HAWAII 96813
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FAX: 545-7725

MAKALAPUA
QUEEN KAAHUMANU HIGHWAY AND
MAKALAPUA BLVD. INTERSECTION
QUEEN KAAHUMANU HWY. ELECTRICAL PLAN - IV

Designed By: **SI** Drawn By: **SI**
Project No. **333.5000** Date: **OCTOBER 1993**

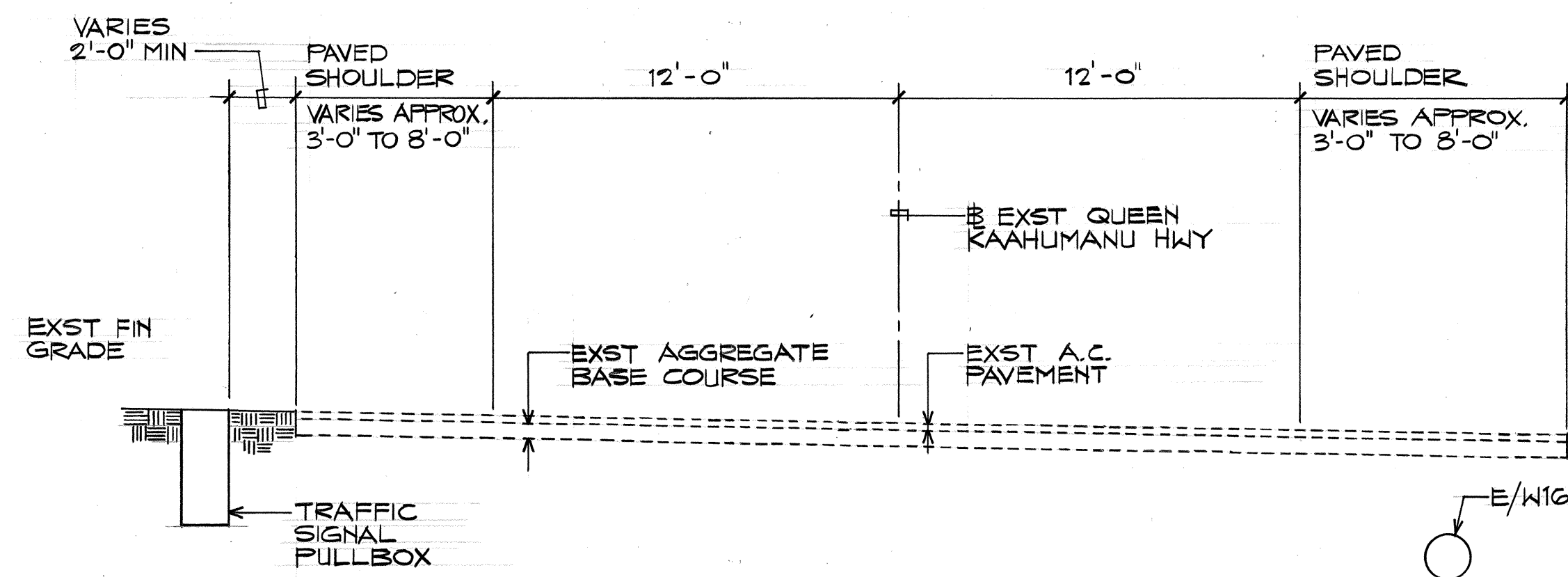
Approved By: *[Signature]* Date: *[Date]*
HAWAII ELECTRIC LIGHT COMPANY
HAWAIIAN TELEPHONE COMPANY



NOTES:

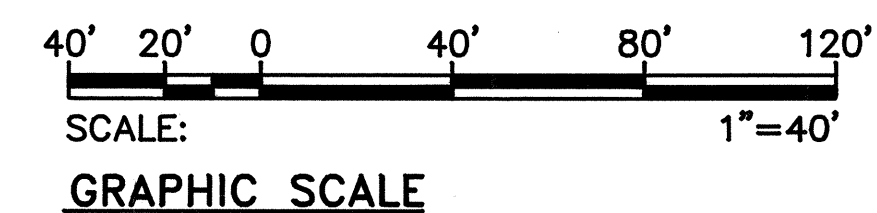
- 1 2" C WITH 3#1 RHW-USE & #2 GND.
- 2 POLE AFFECTED BY ROADWAY IMPROVEMENT.
- 3 2'-0" CLEAR FROM EDGE OF PAVED SHOULDER (MIN) SEE DETAIL A/E-16.
- 4 HELCO 12.47KV CABLES
- 5 SAWCUT EXST AC PAVEMENT FOR CONDUIT INSTALLATION. REPAIR TO MATCH EXST.
- 6 HELCO 69KV CABLES.
- 7 HTCO CABLES.
- 8 UTILITY CO GUY WIRES.

QUEEN KAAHUMANU HWY ELECTRICAL PLAN - VI
SCALE: 1"=40'-0"

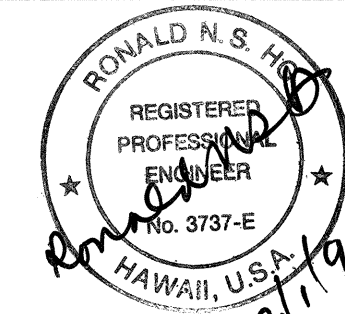


NOTE: SEE SHEET E-7 FOR ADDITIONAL TYPICAL SECTION.

TYPICAL SECTION - QUEEN KAAHUMANU HWY
N.T.S. (AT TRAFFIC SIGNAL PULLBOX)



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BELT COLLINS ENGINEERING PLANNING LANDSCAPE ARCHITECTURE ENVIRONMENTAL CONSULTING
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PHONE: 545-7722
FAX: 545-7725

MAKALAPUA
QUEEN KAAHUMANU HIGHWAY AND
MAKALAPUA BLVD. INTERSECTION
QUEEN KAAHUMANU HWY. ELECTRICAL PLAN - VI

Designed By: **SI** Drawn By: **SI**
Project No. **333.5000** Date: **OCTOBER 1993**

Approved By: *[Signature]* Date: *4/20/94*
JAWAI ELECTRIC LIGHT COMPANY

[Signature] Date: *3/10/91*
HAWAIIAN TELEPHONE COMPANY

FILE	POCKET	FOLDER	NO.