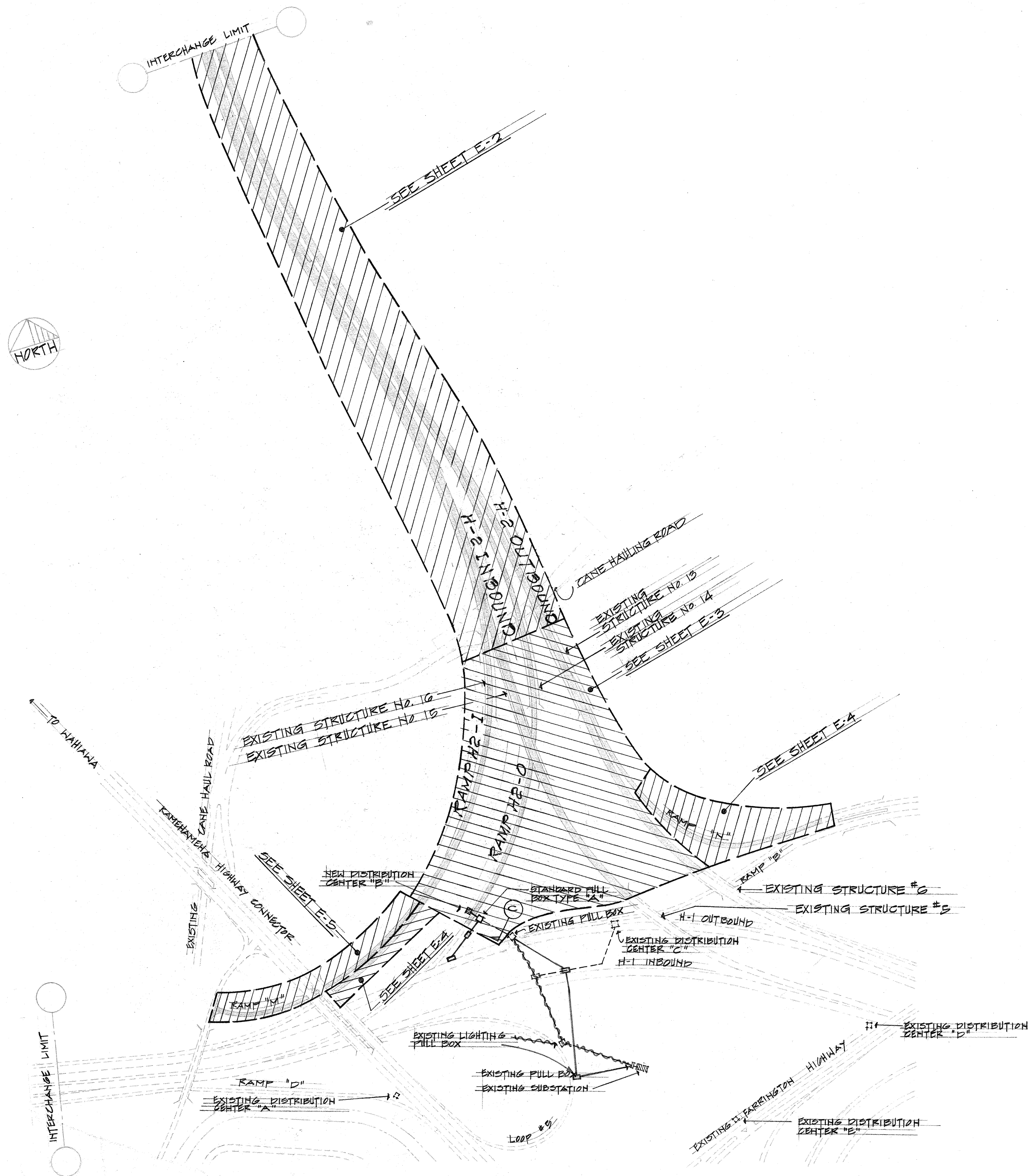


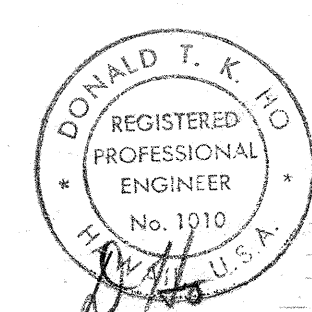
Revised: Feb 1973

HIGHWAY LIGHTING SYMBOL LIST

● ⊕	NEW LIGHT STANDARD, METAL
	LIGHT H.S. → L-1 STANDARD TYPE → A LAMP WATTS → 400 CIRCUIT H.S. → I BRACKET LENGTH → 12 ASA-IES DISTRIBUTION → III



HIGHWAY LIGHTING SITE PLAN
SCALE: 1" = 300'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

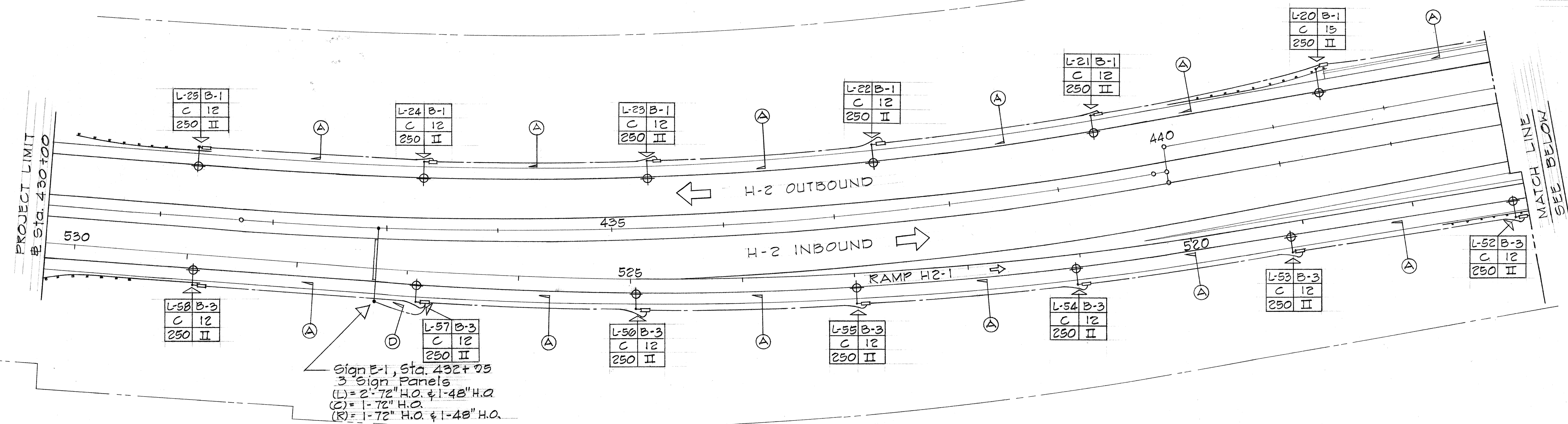
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY LIGHTING SITE
PLAN AND SYMBOL LIST
INTERSTATE ROUTE H-1
WAIANA INTERCHANGE
F.A.I. PROJ. No. I-HI-146:8
(PAVING OF H-2 CONNECTION)

Scales: As Shown Date: April, 1973
SHEET No. 78 OF 104 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(46):8	1973	79	104

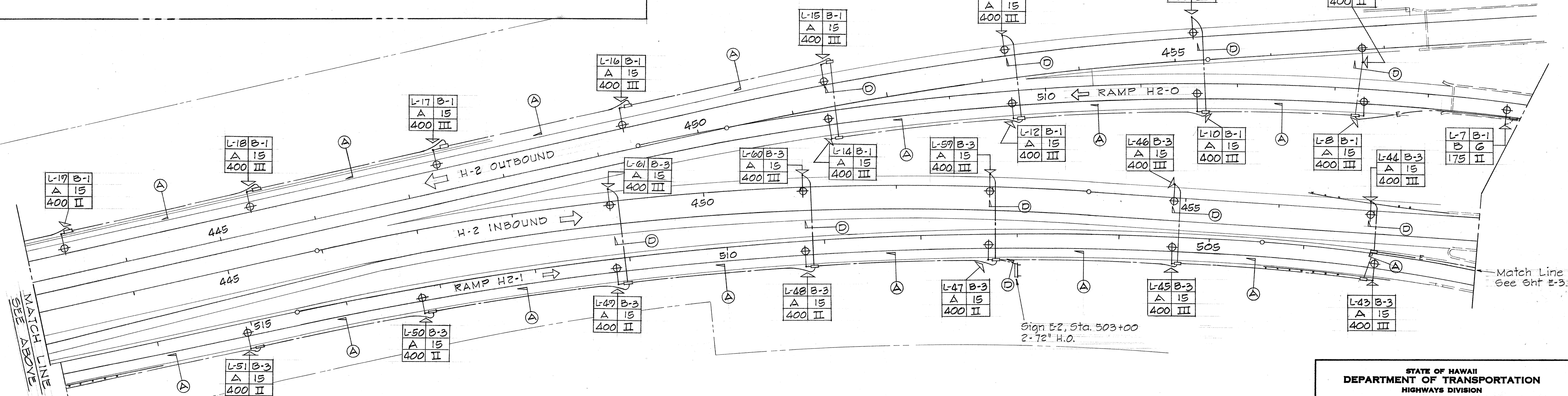
Revised: Feb. 1973

TRUE NORTH
Scale: 1"=50'



H-2 OUTBOUND AND H-2 INBOUND

TRUE NORTH
Scale: 1"=50'



H-2 OUTBOUND AND H-2 INBOUND

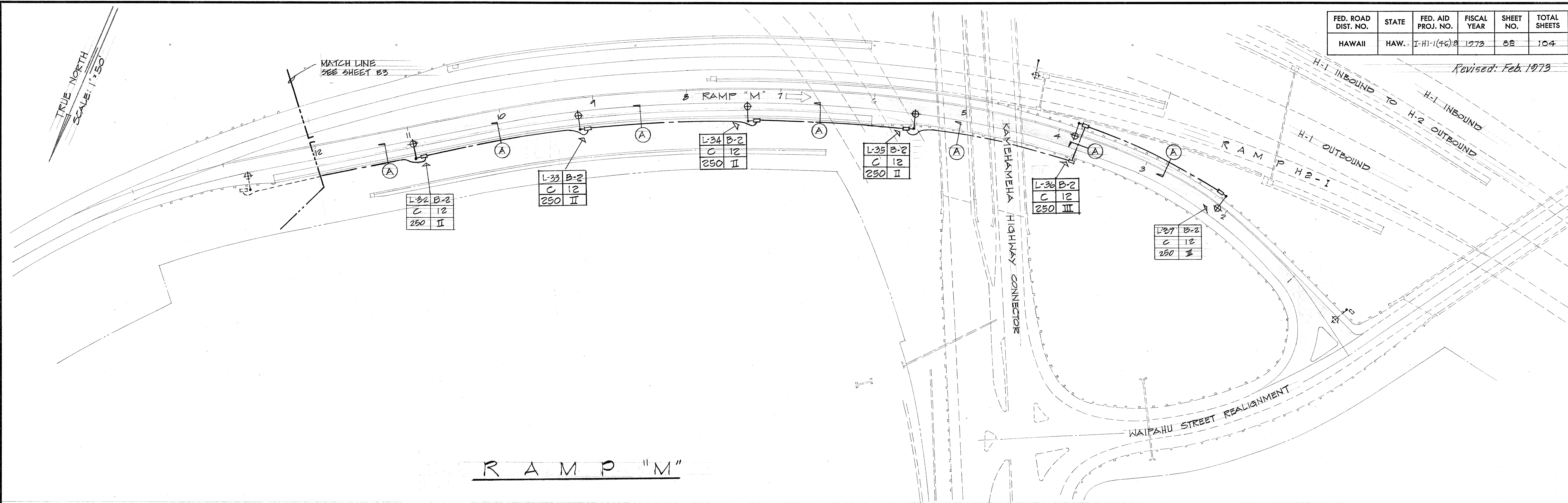
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING PLAN
H-2 OUTBOUND AND H-2 INBOUND
INTERSTATE ROUTE H-1
WAIKAWA INTERCHANGE
F.A.I. PROJ. No. I-HI-1(46):8
(PAVING OF H-2 CONNECTION)
Scale: As Shown Date: April, 1973
SHEET No. E-2 OF 8 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTE BOOK	_____
NO.	_____

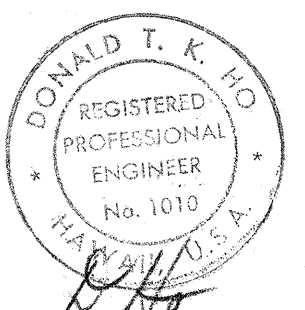
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(46)B	1973	88	104

Revised: Feb. 1973



R A M P "M"

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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

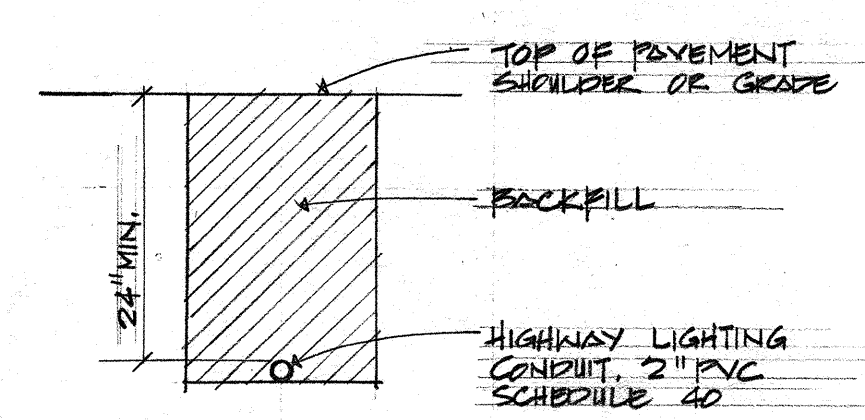
HIGHWAY LIGHTING PLAN

RAMP "M"
INTERSTATE ROUTE H-1
WAIAWA INTERCHANGE
F.A.I. PROJ. No. I-HI-1(46)B
(PAVING OF H-2 CONNECTION)

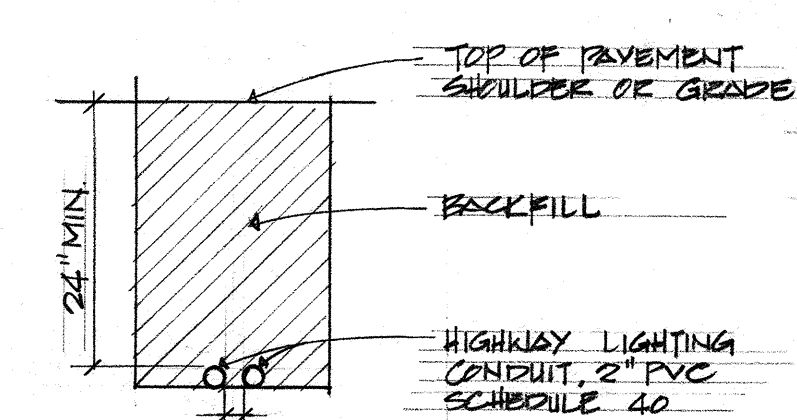
Scale: As Shown Date: April 1973

SHEET No. 88 OF 88 SHEETS

Revised: Feb. 1973

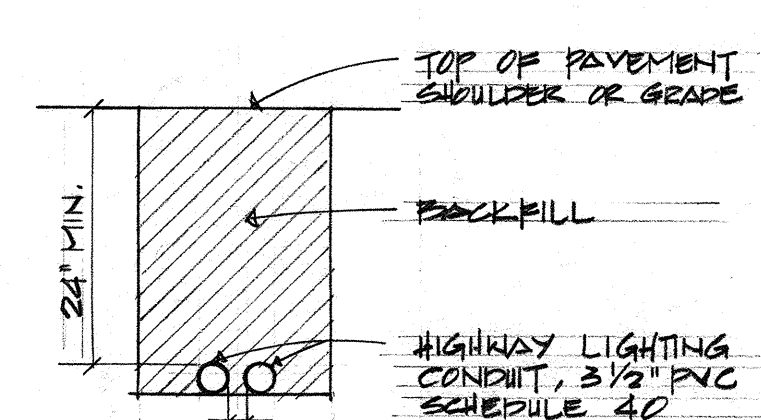


A

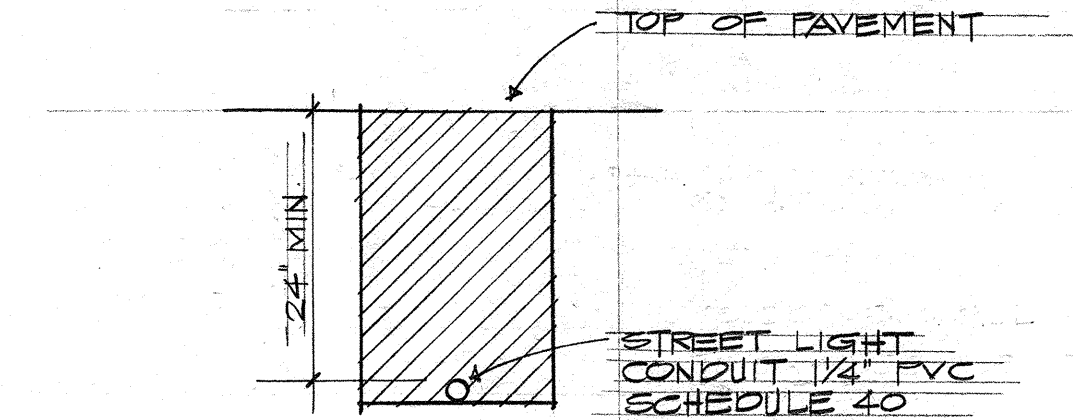


NOTE: "B" SIMILAR EXCEPT WITH 1-2" FOR HIGHWAY LIGHTING & 1-3/4" FOR SIGN LIGHTING.

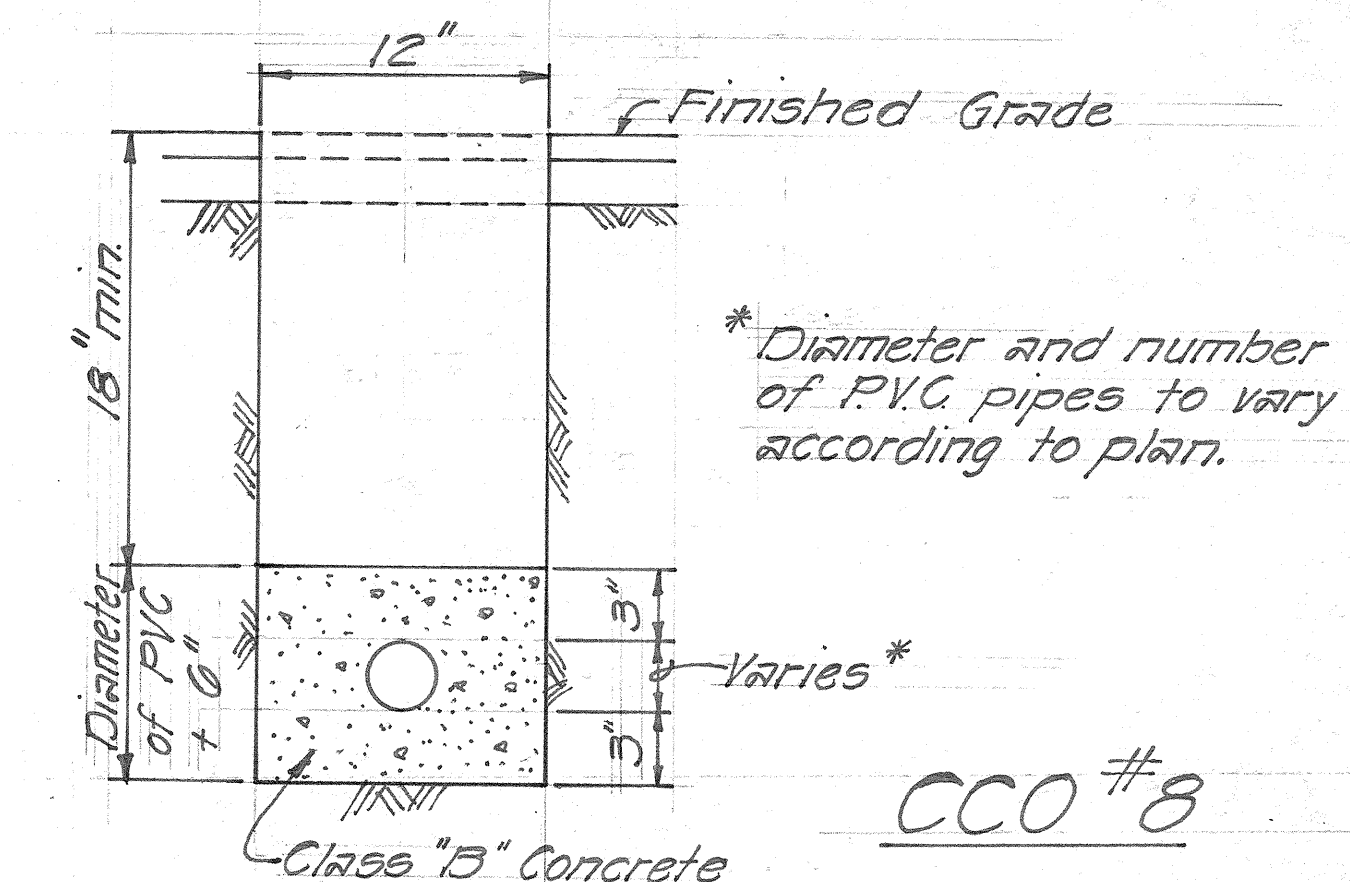
B



C



D



CCO #8

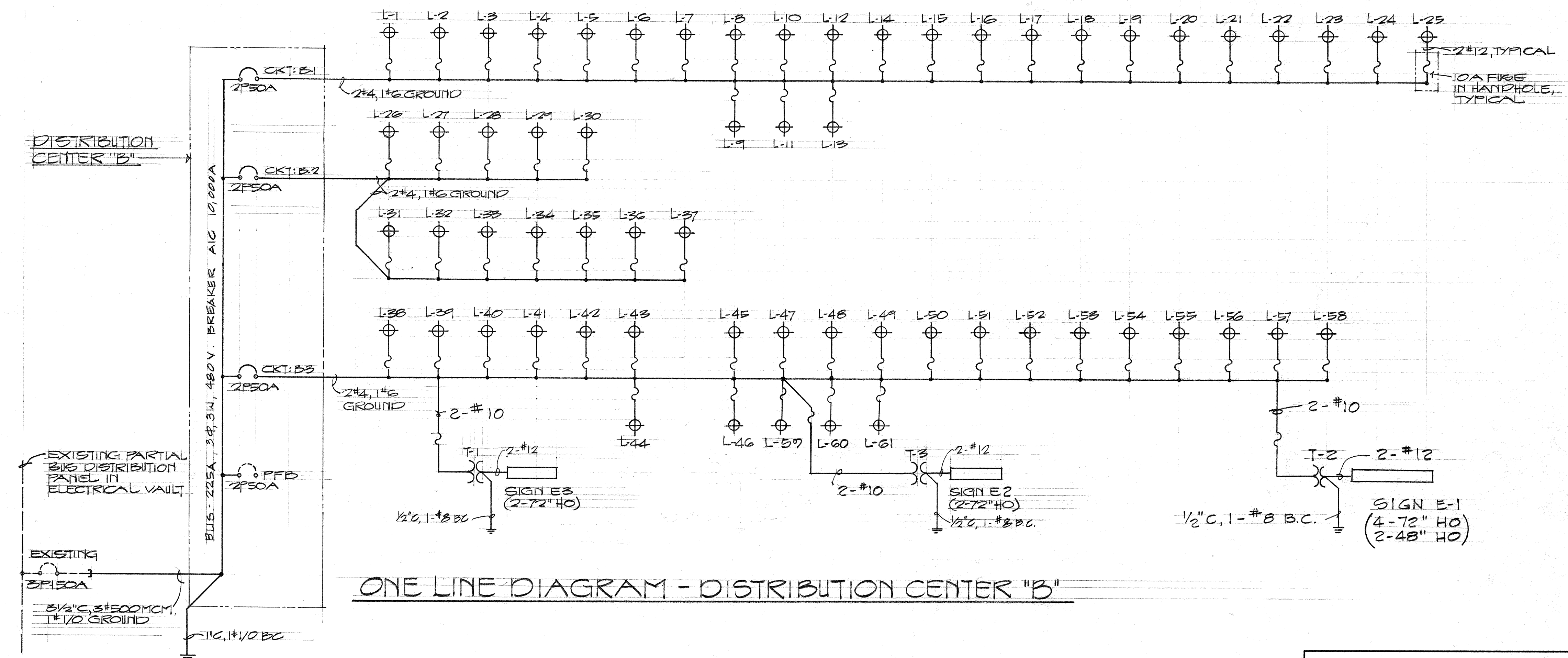
TYPICAL DETAIL FOR HWY LIGHTING CONDUIT JACKET UNDER RDWY.

DUCT SECTIONS

NOT TO SCALE

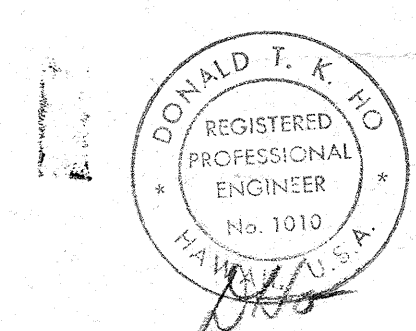
SCHEDULE OF TRANSFORMERS (DRY TYPE)

No.	KVA	No. OF PHASE	PRIMARY VOLT	SECONDARY VOLT	TAPS	FUSE AMPS
T-1	0.5	1	480	120	2+5%	3
T-2	1.0	1	480	120	2+5%	5
T-3	0.5	1	480	120	2+5%	3



ONE LINE DIAGRAM - DISTRIBUTION CENTER "B"

DATE: _____
 SURVEYED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____

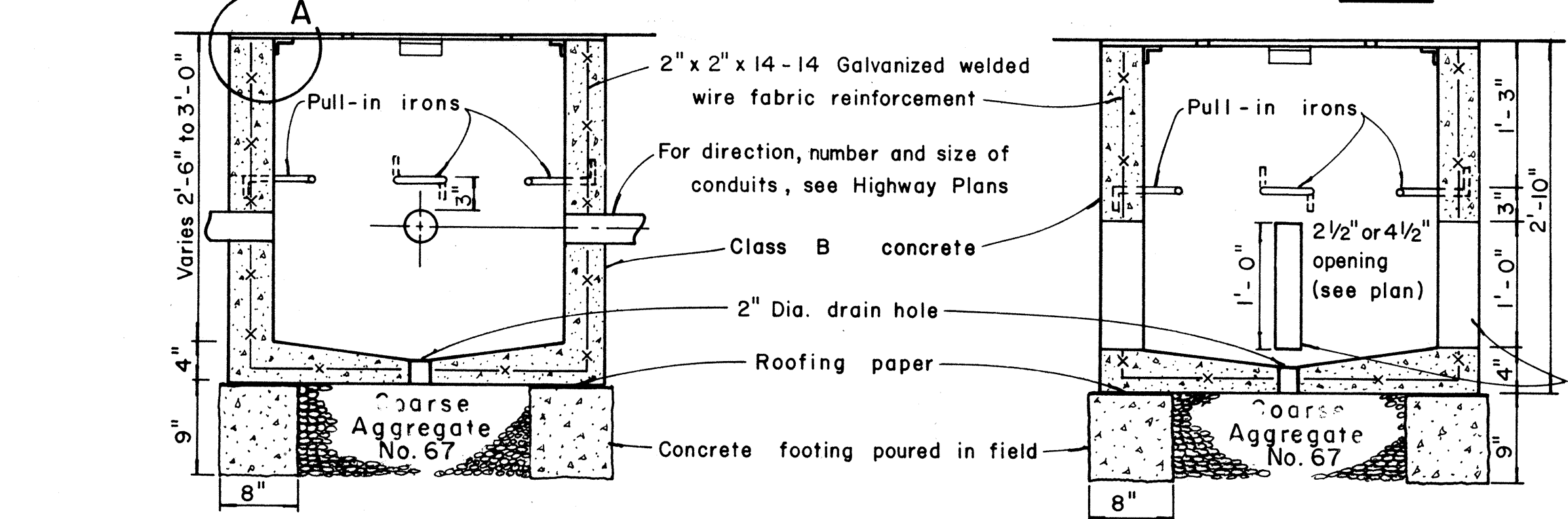
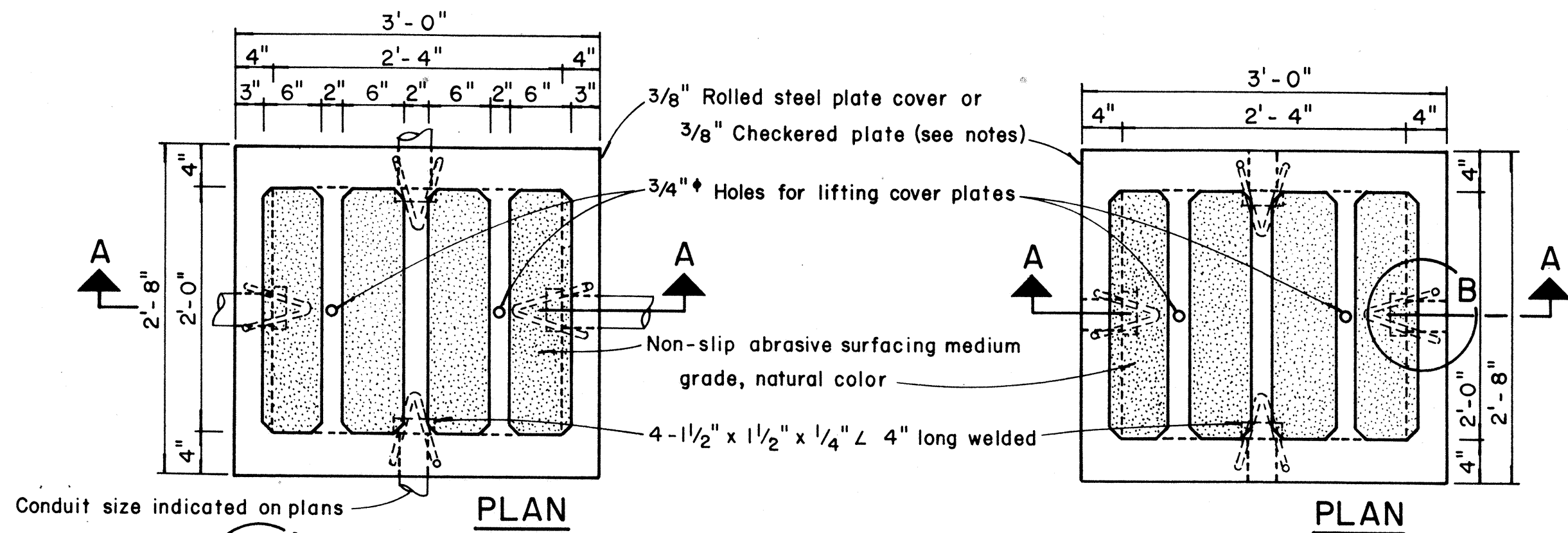


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

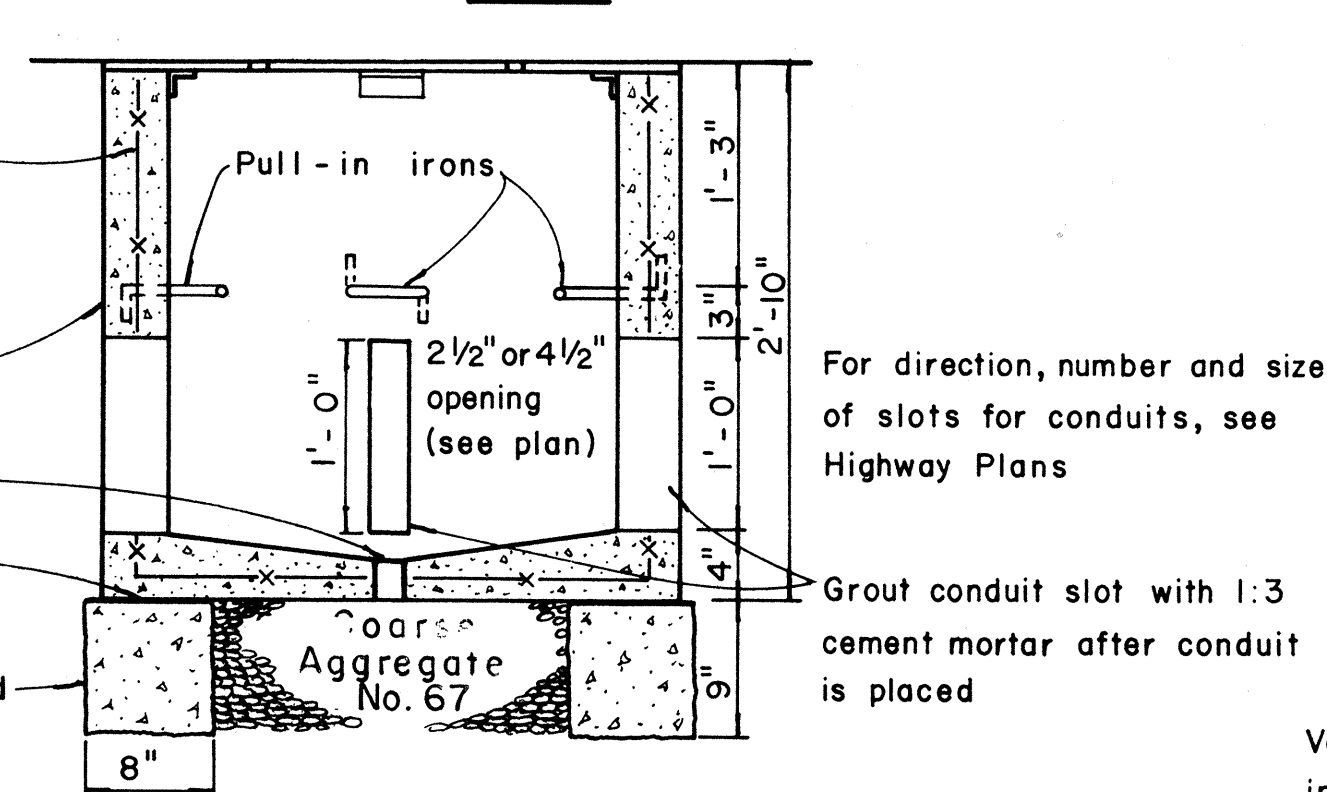
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
HIGHWAY LIGHTING
DUCT SECTION
 INTERSTATE ROUTE H-1
 WAIKAWA INTERCHANGE
 F.A.I. PROJ. NO. I-H1-1(46):8
 (PAVING OF H-2 CONNECTION)
 Scale: As shown Date: April, 1973
SHEET No. 83 OF 8 SHEETS

254

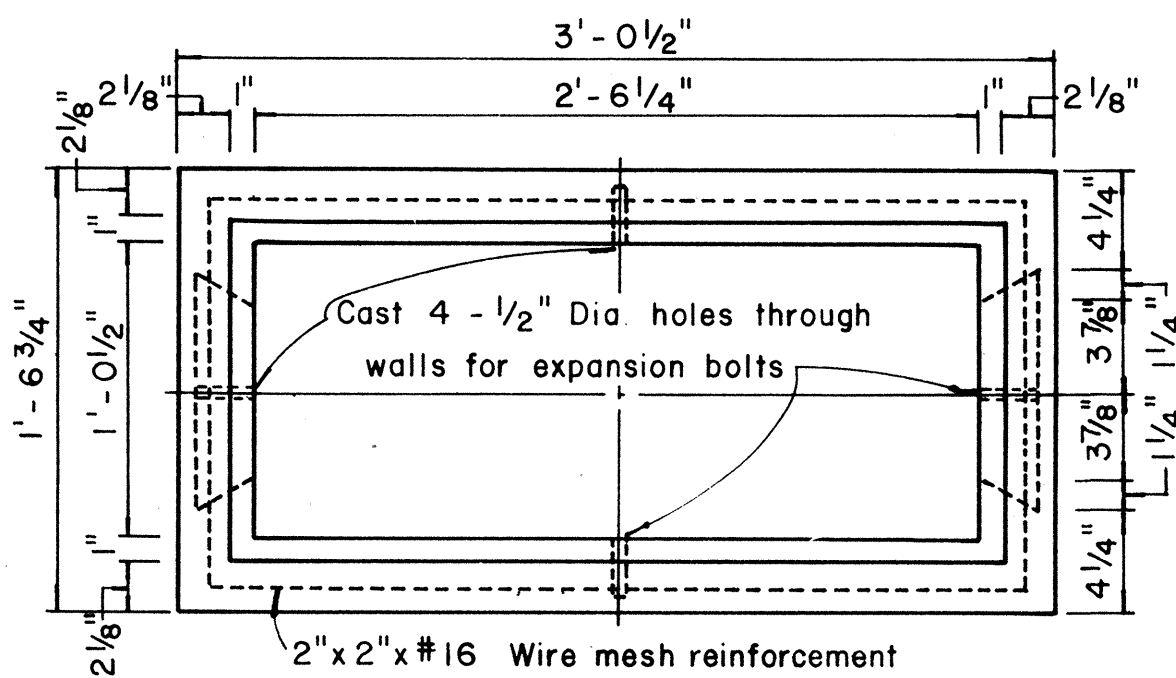
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-1(40)-8	1973	835-1	104



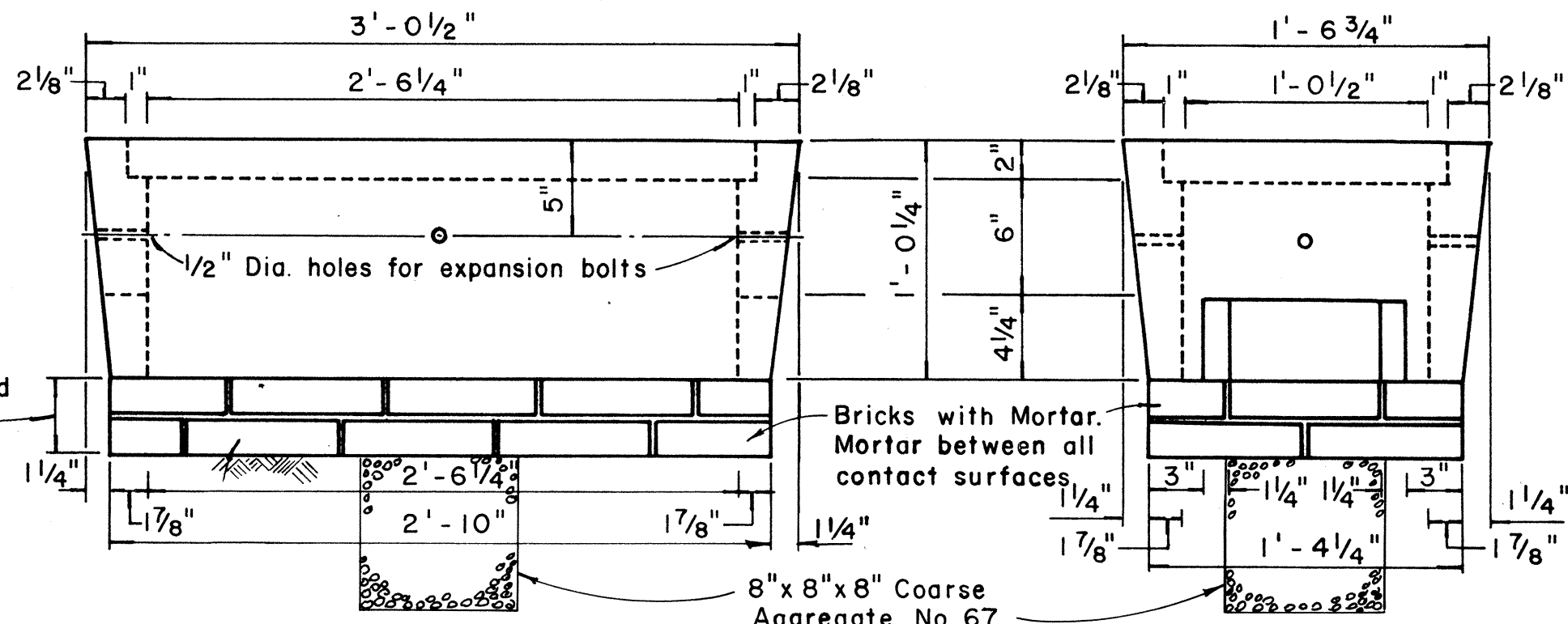
TYPE "A" PULLBOX CAST-IN-PLACE
Scale: 1" = 1'-0"



TYPE "A" PULLBOX PRECAST
Scale: 1" = 1'-0"



PLAN

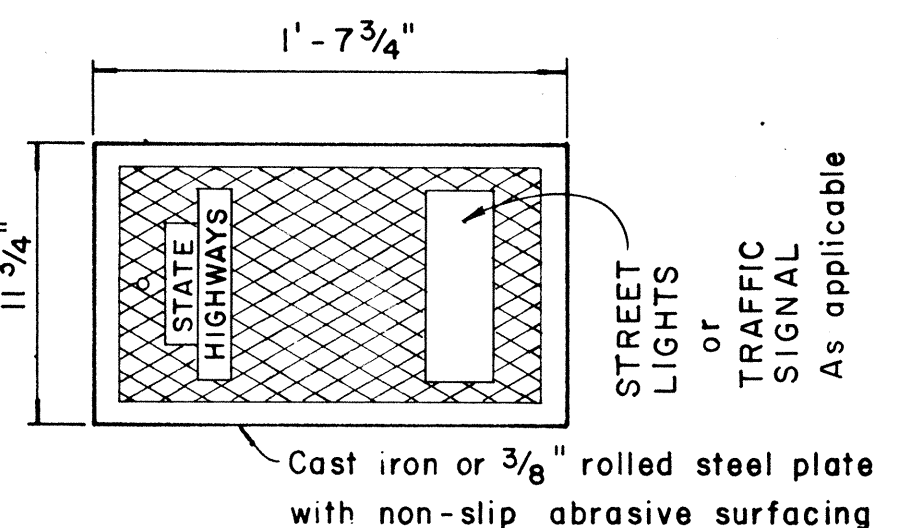


SIDE ELEVATION

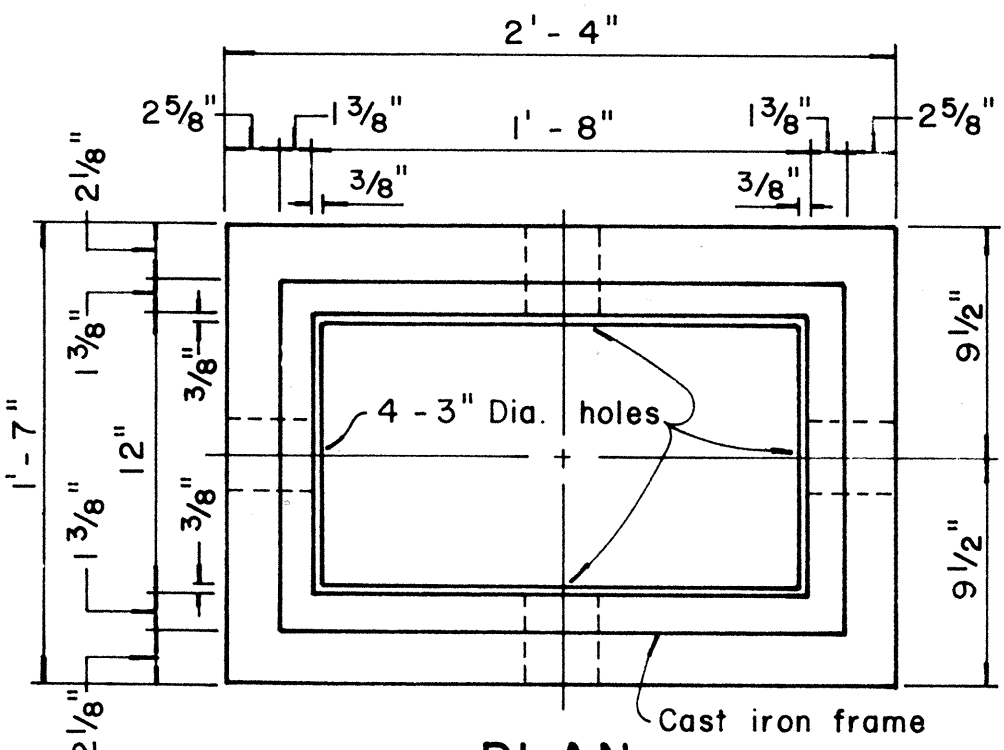
END ELEVATION

TYPE "C" PULLBOX
Scale: 1 1/2" = 1'-0"

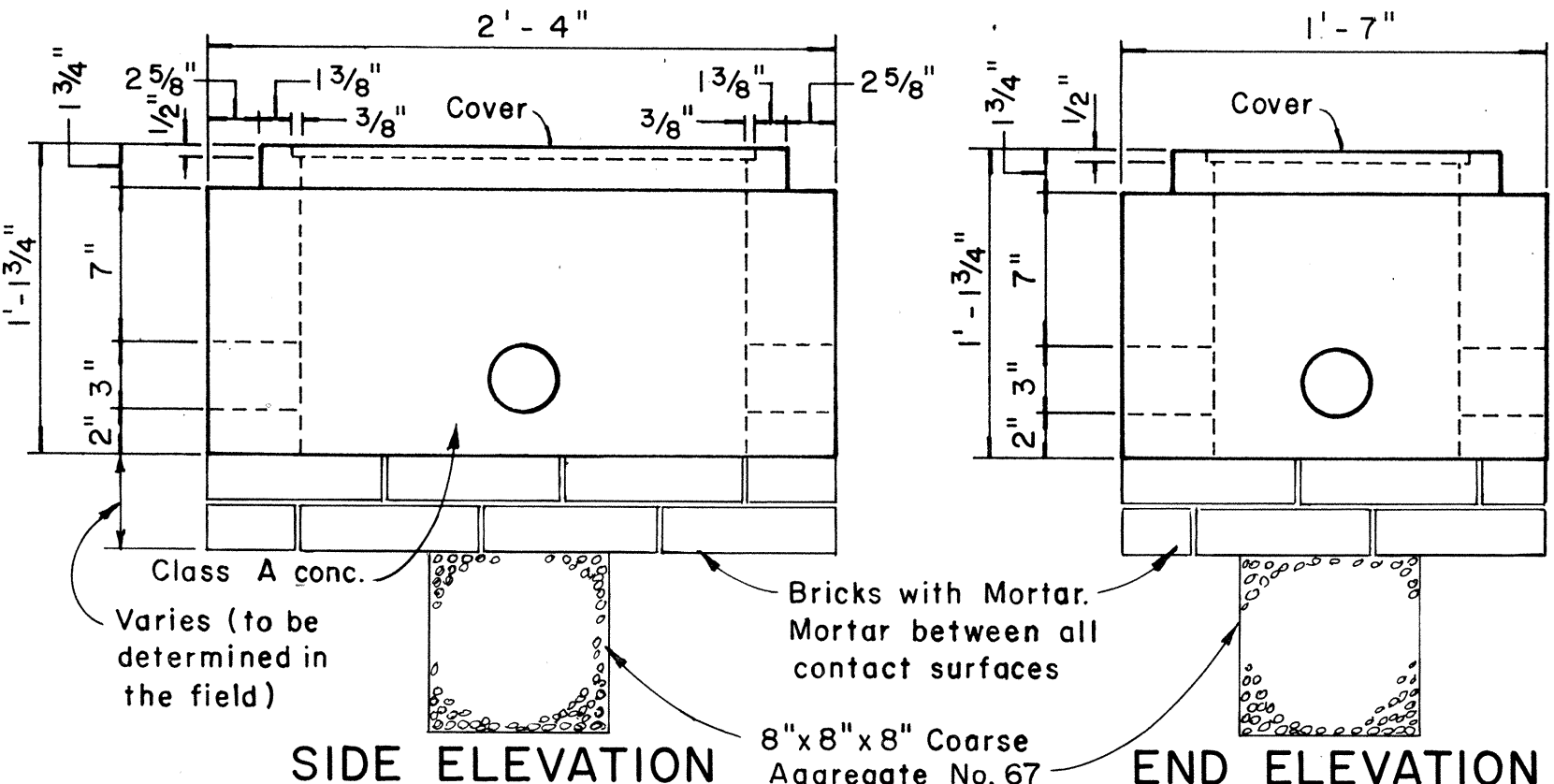
NOTE:
Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush



PLAN OF COVER



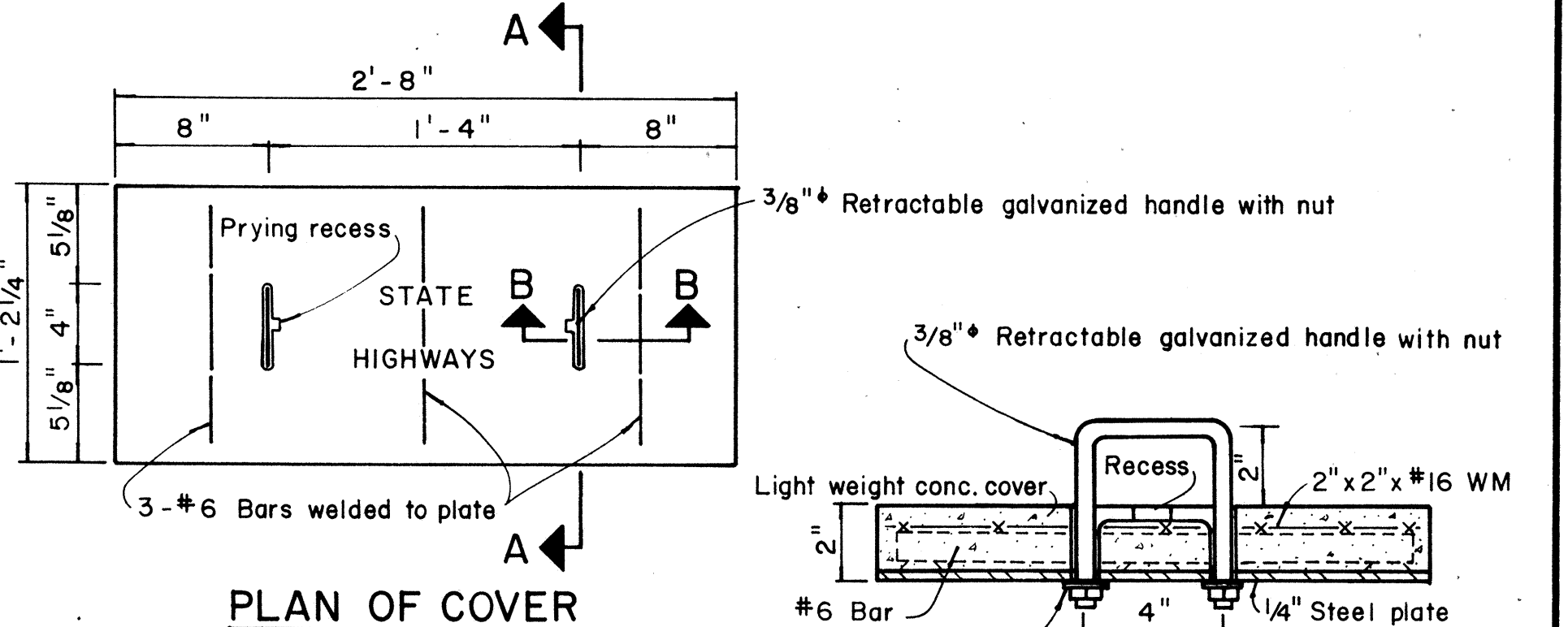
PLAN



SIDE ELEVATION

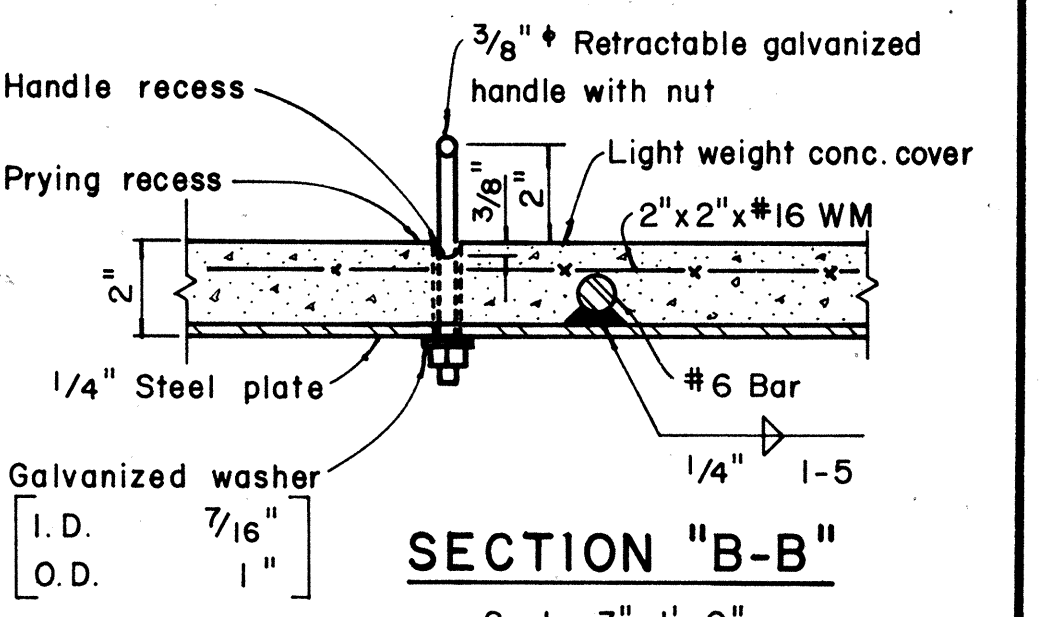
END ELEVATION

TYPE "B" PULLBOX
Scale: 1 1/2" = 1'-0"

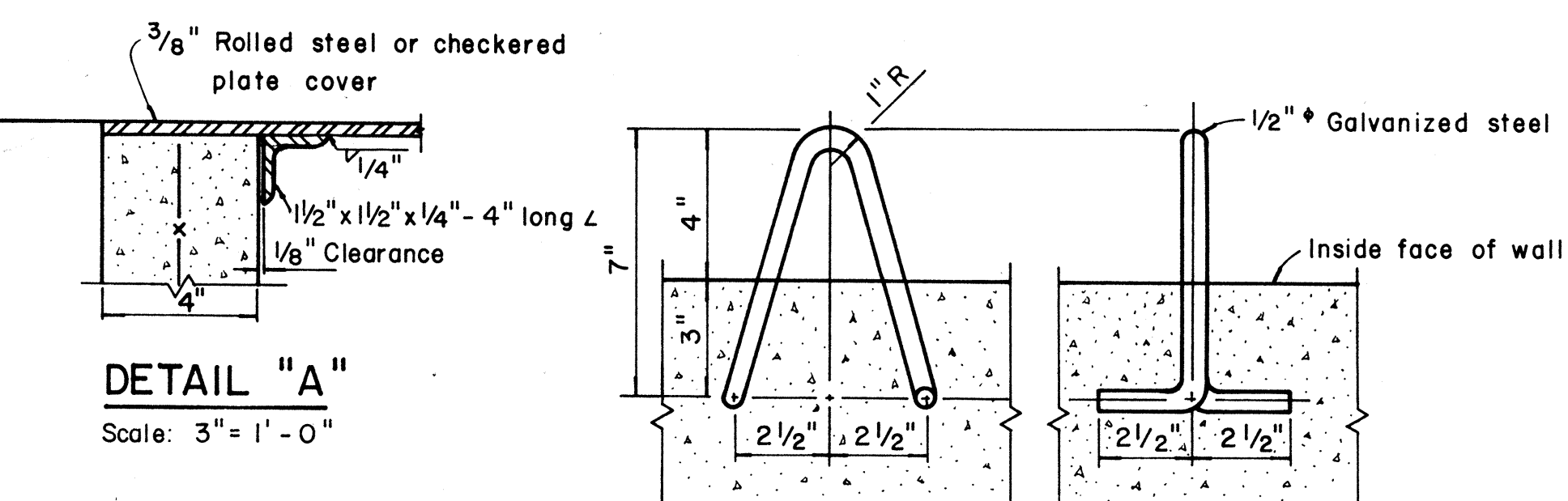


PLAN OF COVER

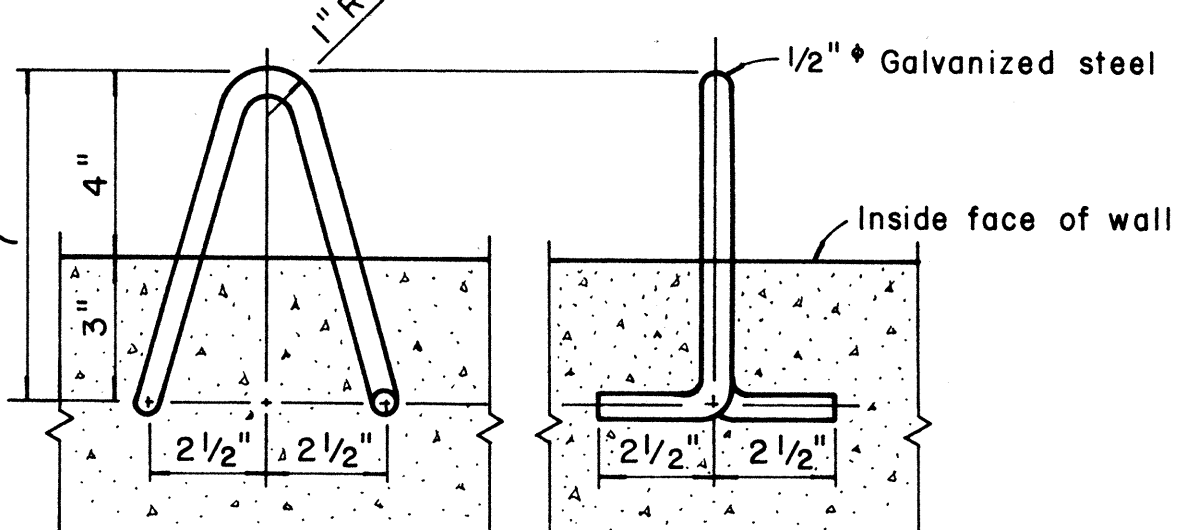
SECTION "A-A"
Scale: 3" = 1'-0"



SECTION "B-B"
Scale: 3" = 1'-0"



DETAIL "A"
Scale: 3" = 1'-0"



PULL-IN IRON DETAIL "B"
Scale: 3" = 1'-0"

- NOTES: (FOR TYPE "A" PULLBOX)
- 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
 - 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
 - Pull irons shall be placed opposite each conduit slot.
 - Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
 - Each pullbox shall have a pair of pull irons opposite each other for lifting purposes.

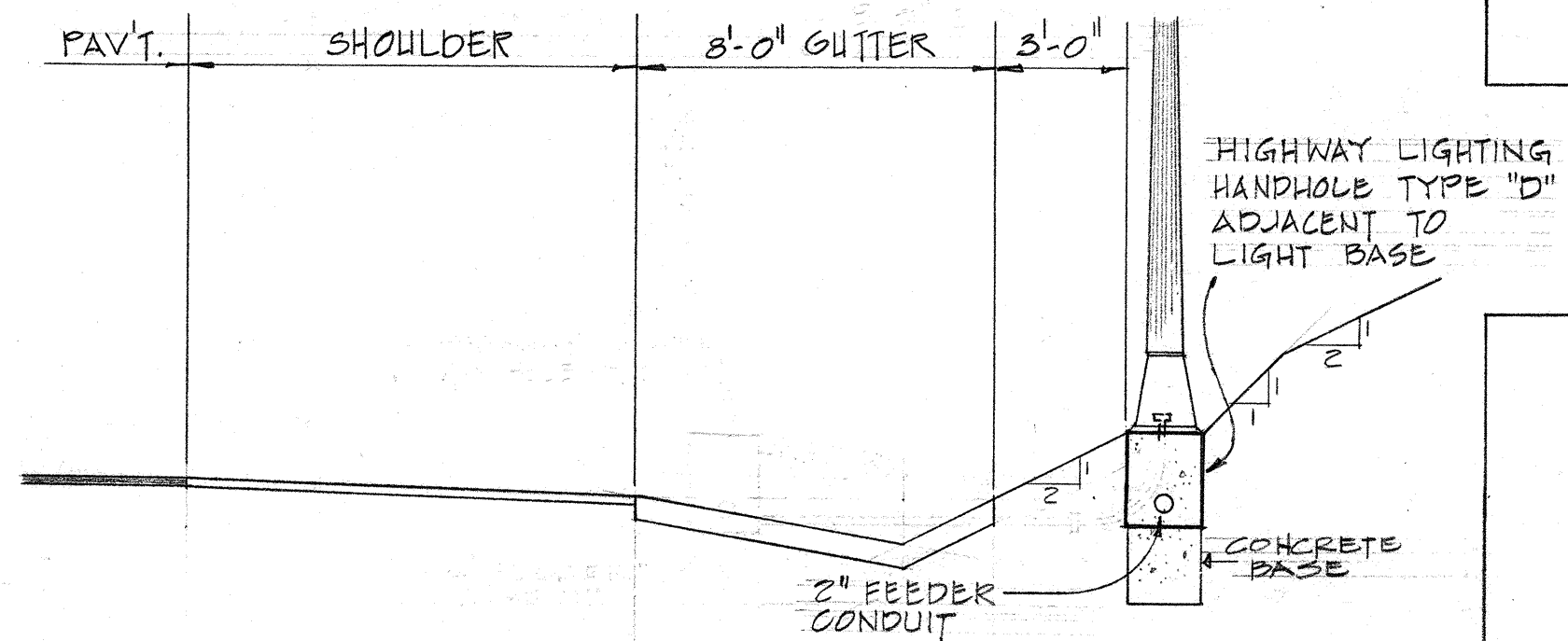
APPROVAL RECOMMENDED:
Erich Tanaka
TRAFFIC ENGINEER
DATE: 12/20/69

APPROVED:
W. J. J. J.
ASSISTANT CHIEF, ENGINEERING
DATE: 12-30-69

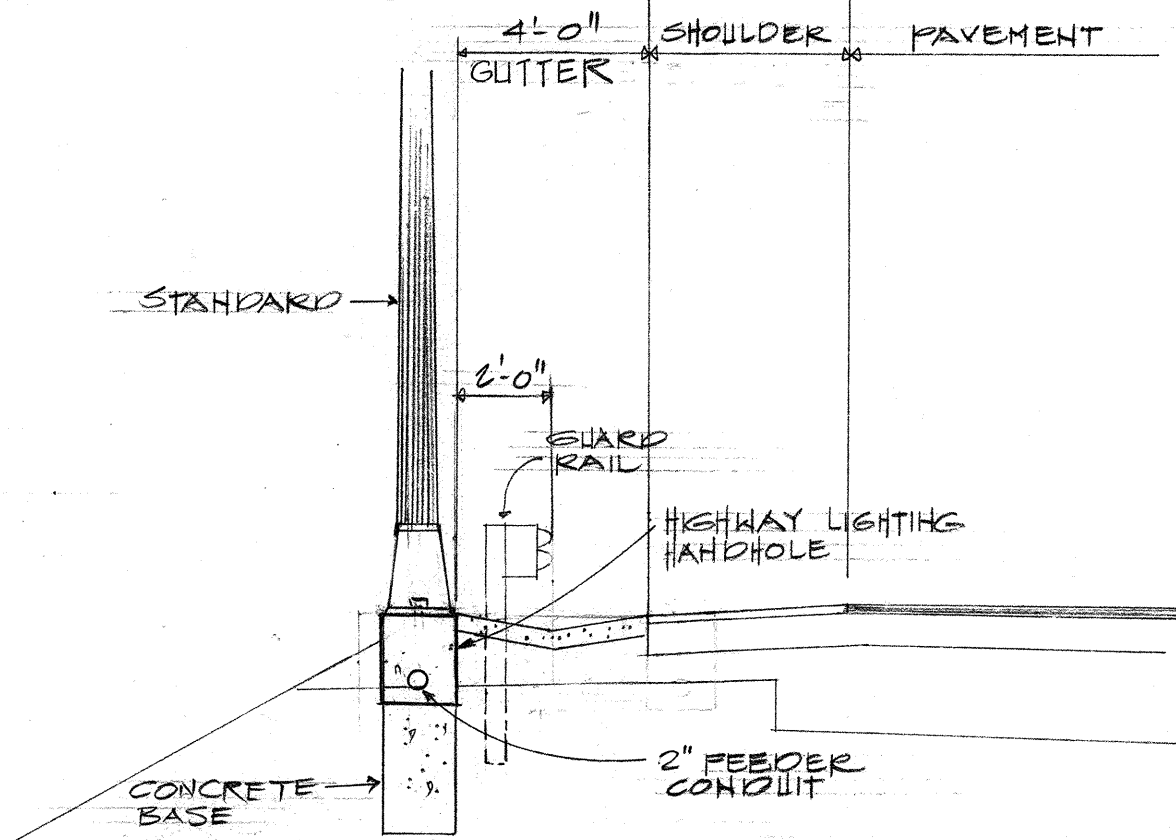
NO.	REVISION	APPROVED BY	DATE
1	Revised Type B & C Pullbox details	H.T.	3-5-76

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
PULLBOXES
Scale as noted Date

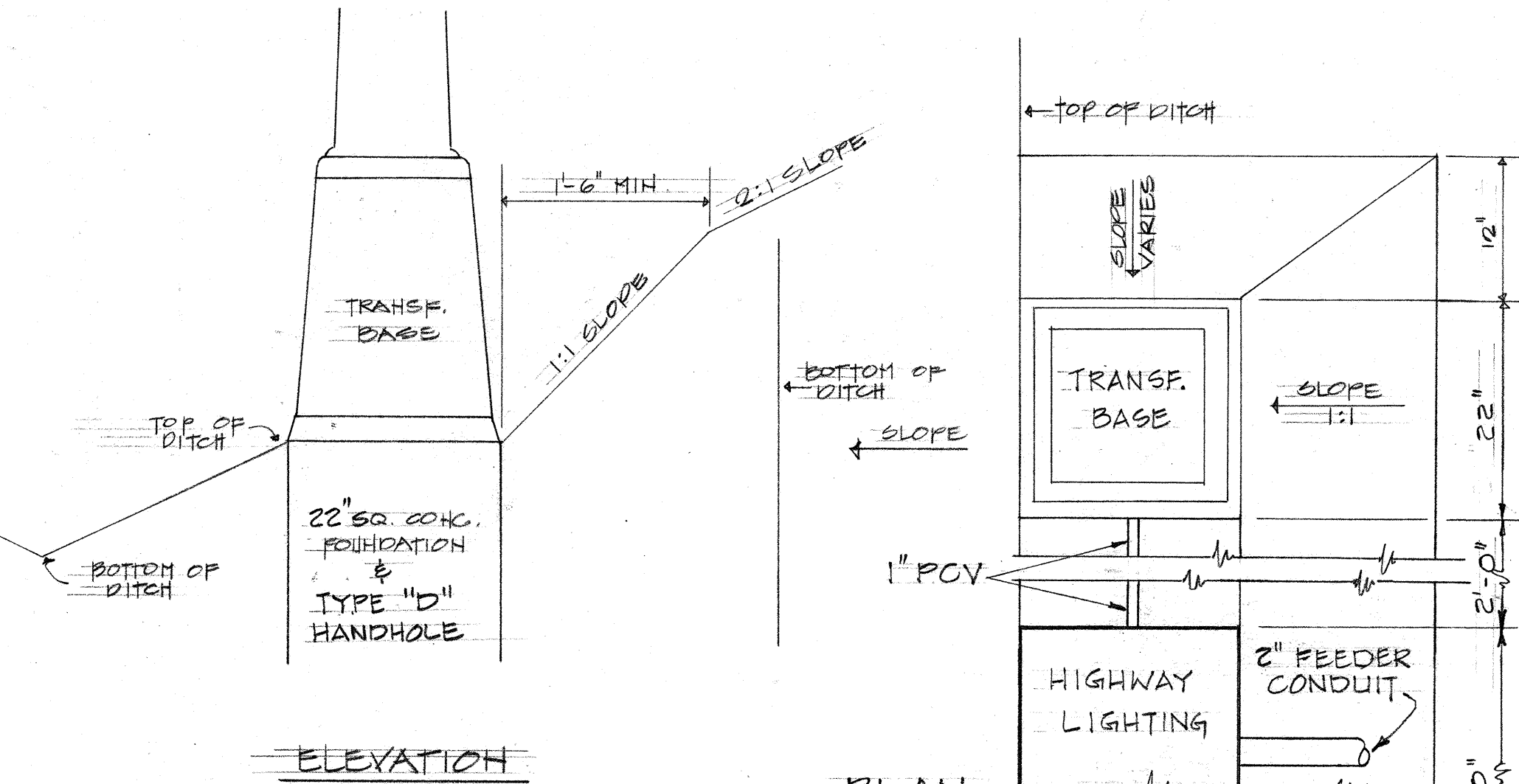
Revised: Feb. 1973



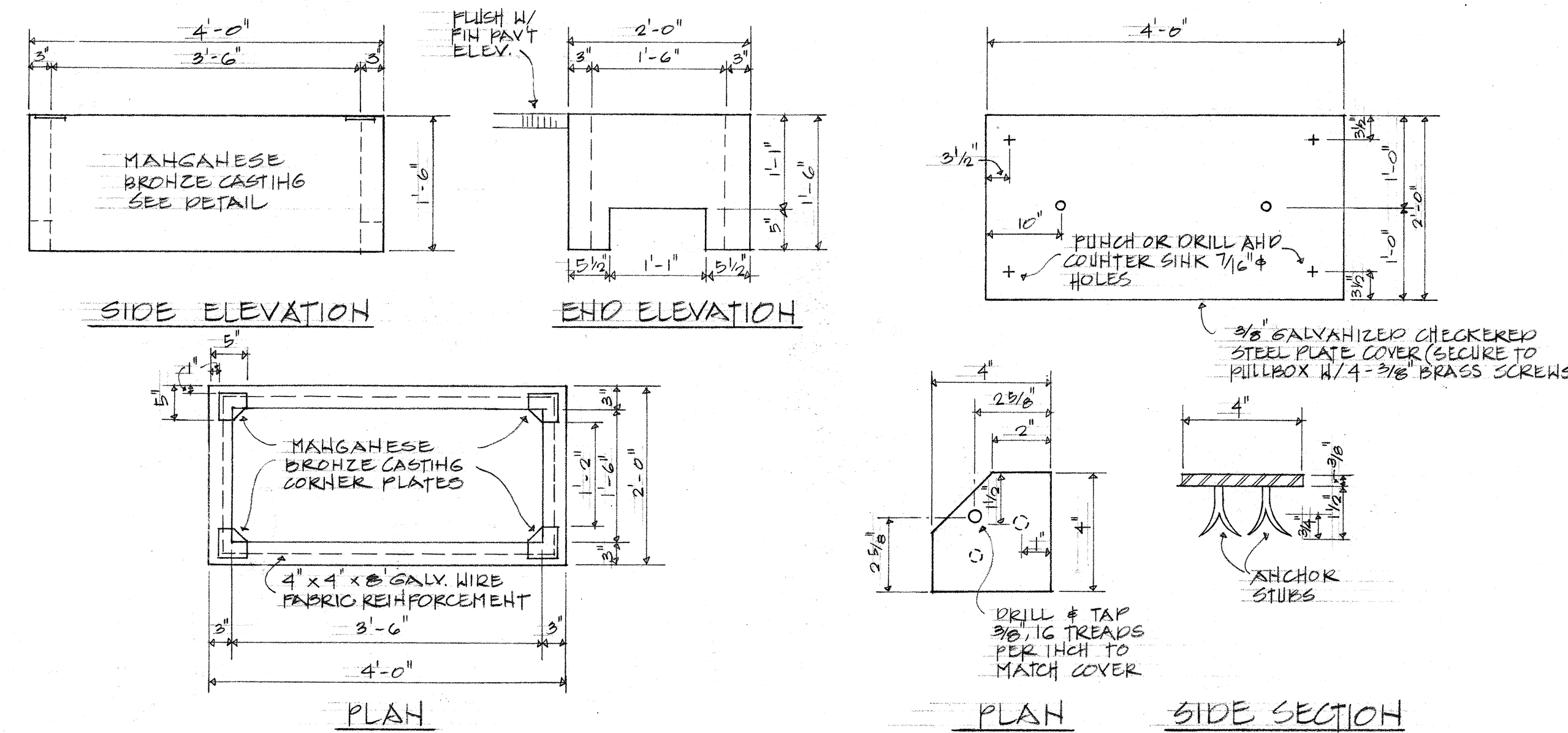
A
E-7
TYPICAL LIGHT STANDARD
LOCATION BEHIND CONCRETE
GUTTER
SCALE: 1/4" = 1'-0"



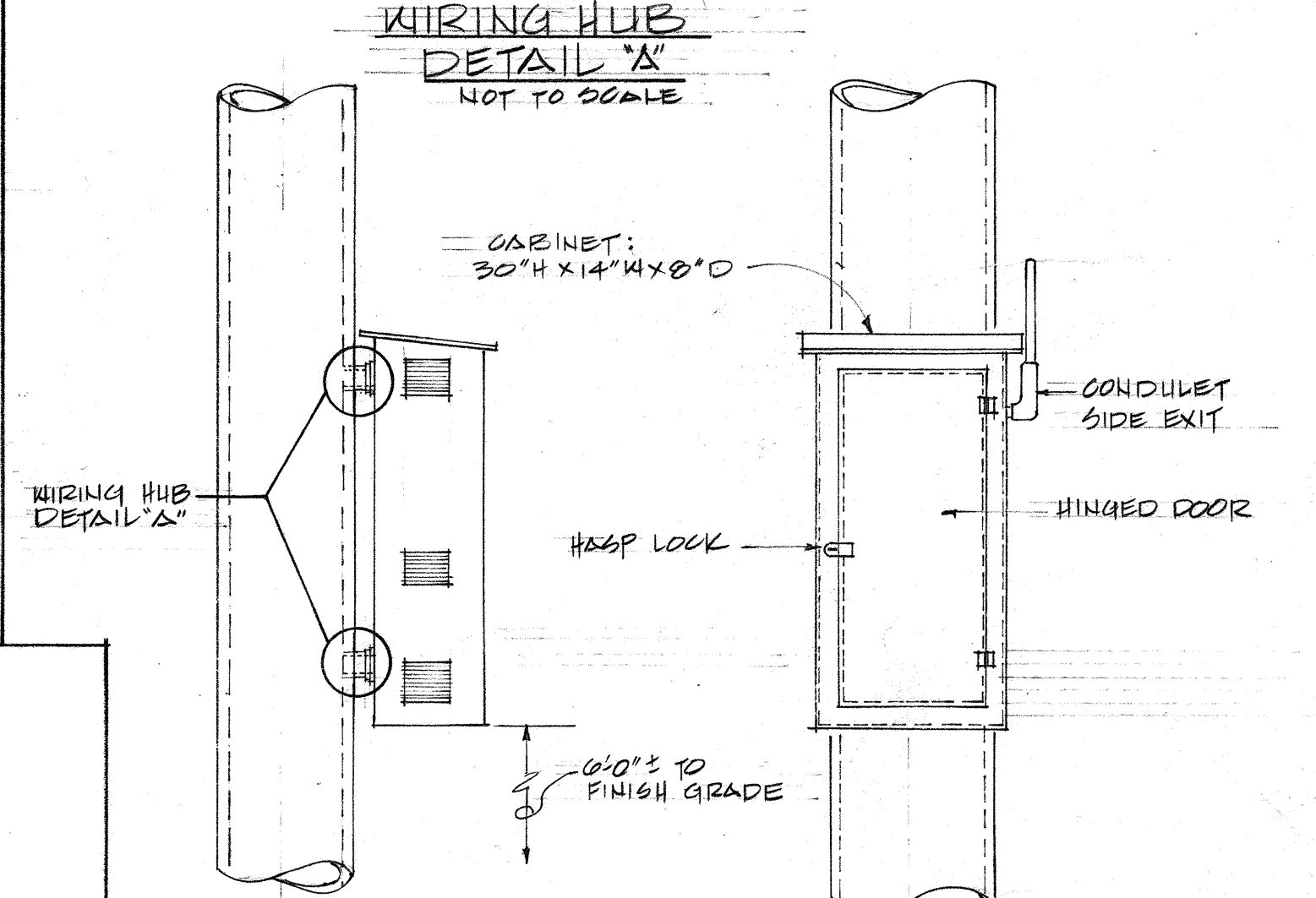
B
E-7
TYPICAL LIGHT STANDARD
LOCATION BEHIND GUARD
RAIL
SCALE: 1/4" = 1'-0"



C
E-7
DETAIL TYPICAL LIGHT
STANDARD INSTALLATION
NOT TO SCALE

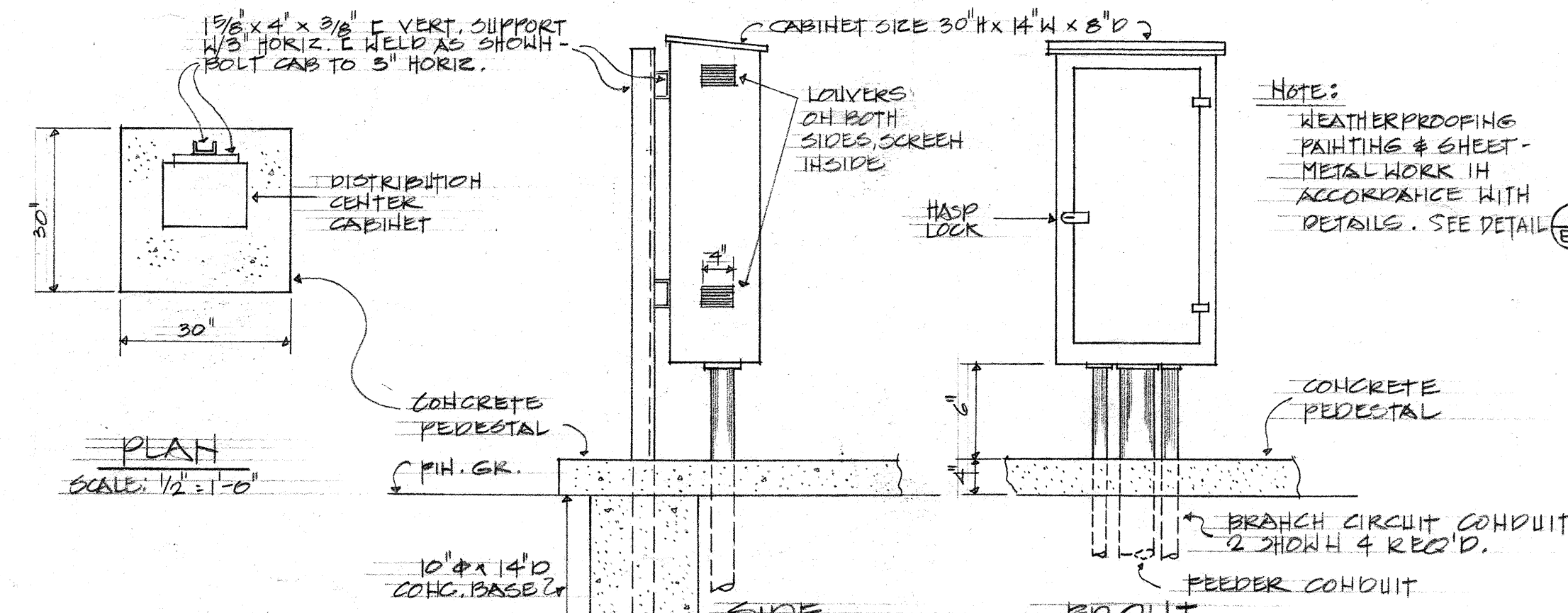


D
E-7
TYPICAL HIGHWAY LIGHTING HANDHOLE - TYPE "D"
NOT TO SCALE

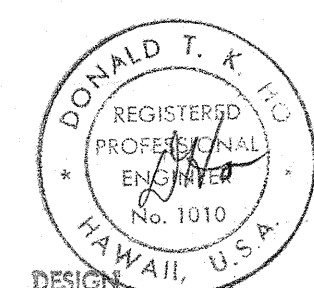


E
E-7
DETAILS - DISTRIBUTION
CENTER MOUNTING
SCALE: 1" = 1'-0"

F
E-7
SIDEVIEW FRONTVIEW
AT TYPE "D" SIGN SUPPORT 60" x 12" x 10"
DETAIL - WEATHER PROOF CABINET
FOR BALLAST & STEPDOWN TRANSFORMER



F
E-7
DETAILS - DISTRIBUTION
CENTER MOUNTING
SCALE: 1" = 1'-0"



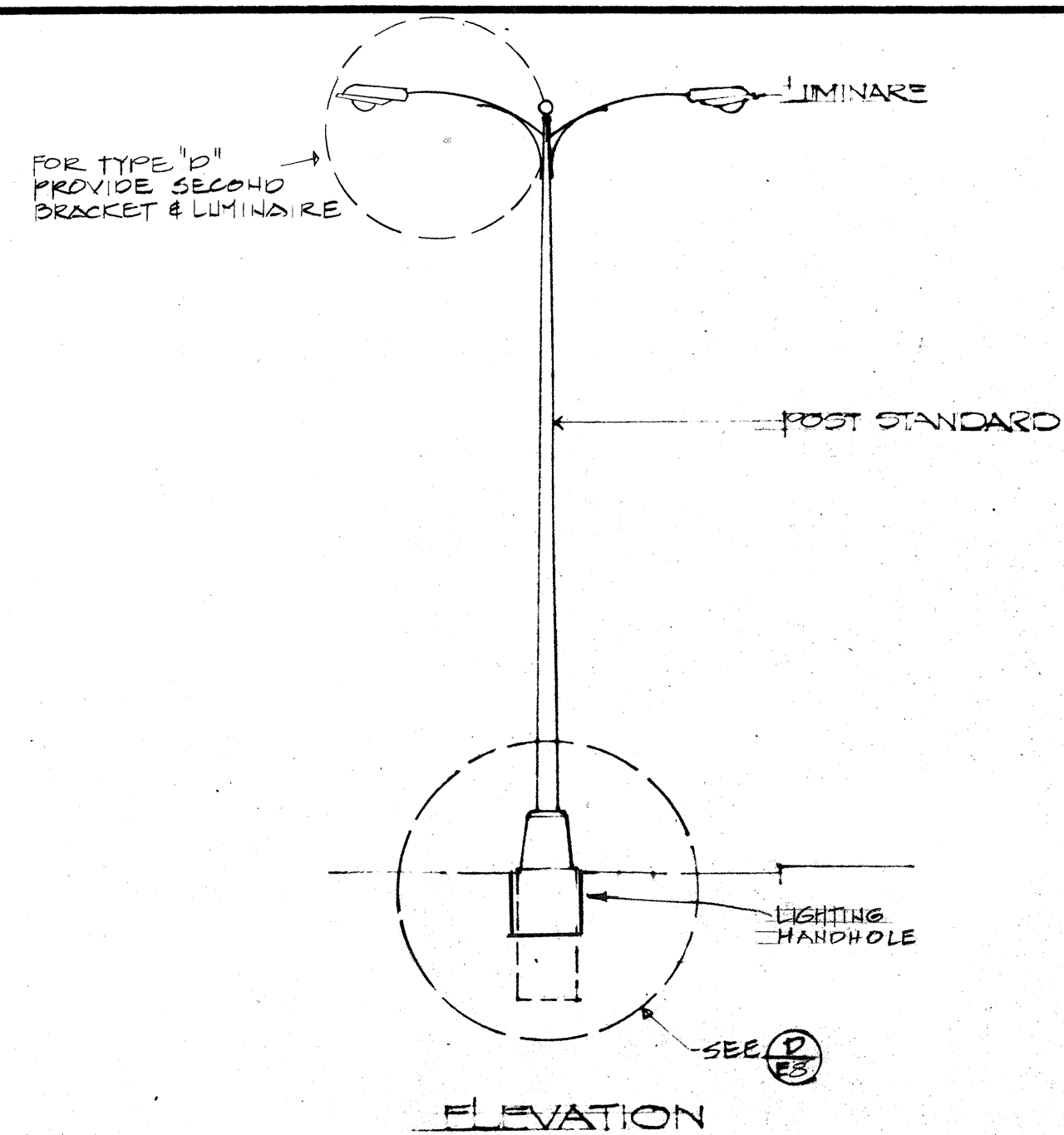
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HIGHWAY LIGHTING - LIGHT
STANDARDS LOCATION,
HANDHOLE TYPE D**
INTERSTATE ROUTE H-1
WAIKAWA INTERCHANGE
F.A.I. PROJ. No. I-H-1(46)B
(PAVING OF H-2 CONNECTION)
Scale: As Shown Date: April, 1973
SHEET No. E-7 OF 8 SHEETS

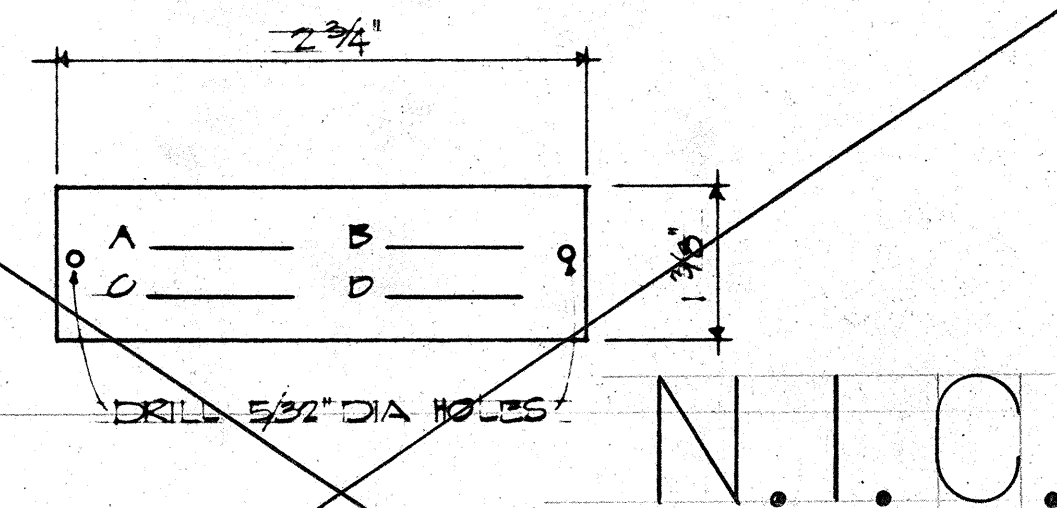
255

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1H-1498	1973	85	104

Revised: Feb. 1973



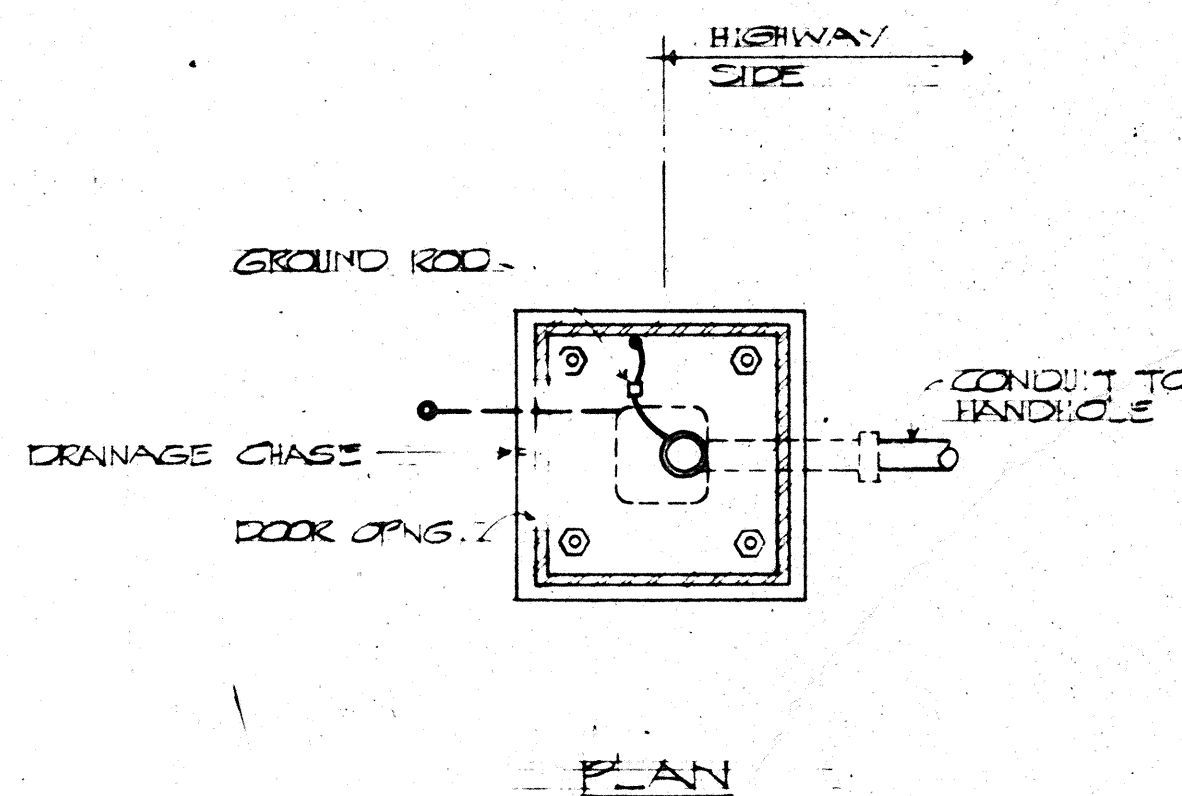
A LIGHT STANDARD TYPE "A" & "C"
E-8 NOT TO SCALE



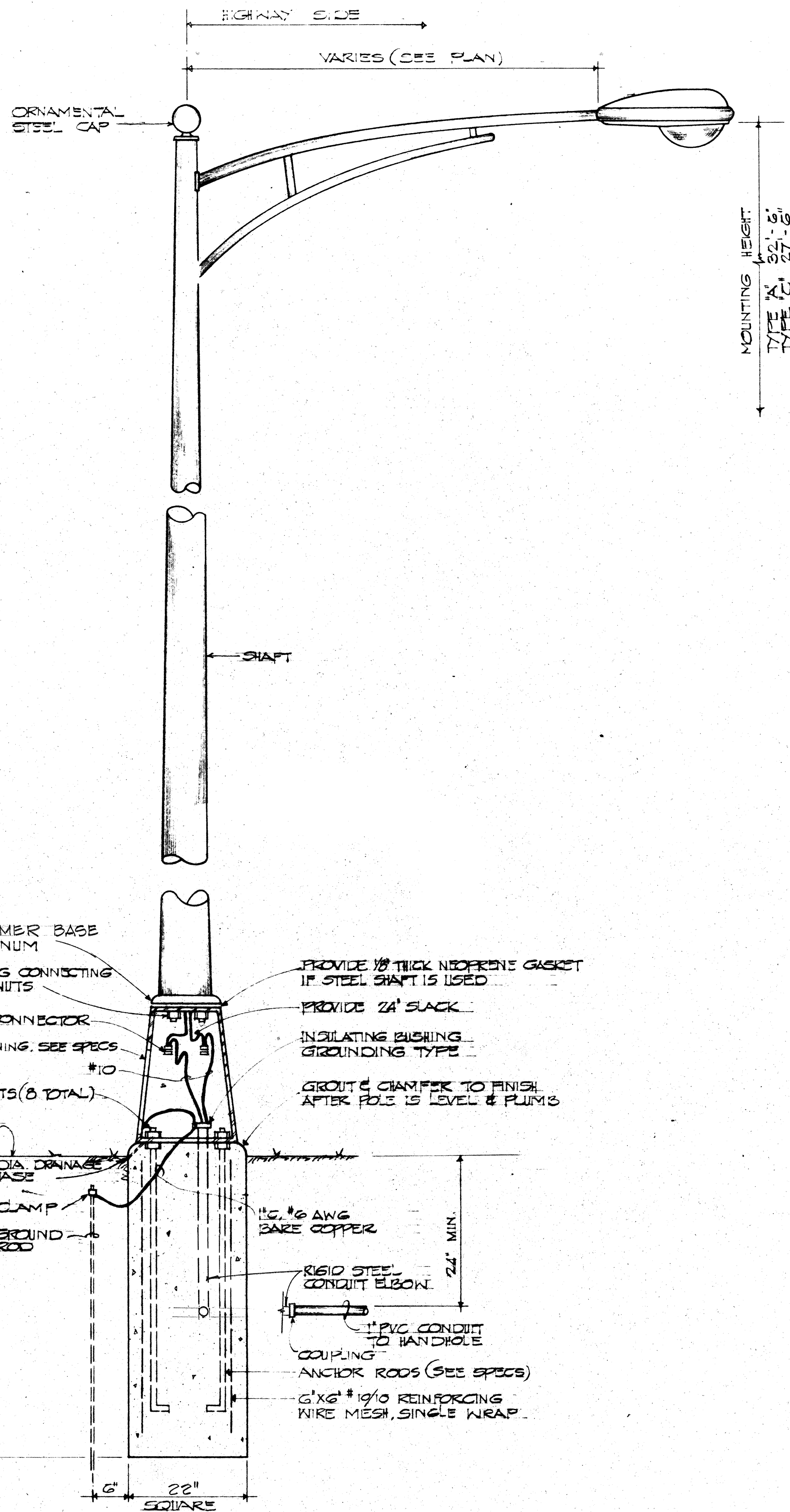
POLE TAG
MAKE FROM 0.040" ALUMINUM SHEET WITH 1/4" HIGH COMMERCIAL BOTHC LETTERS, ENGRAVED OR STENCILED
ATTACH TO POLE WITH NO. 6 CADMIUM PLATED SCREWS

ENGRAVING SCHEDULE
A CONTRACT NO
B LIGHT NUMBER
C LAMP DATA
D REFRACTOR DATA

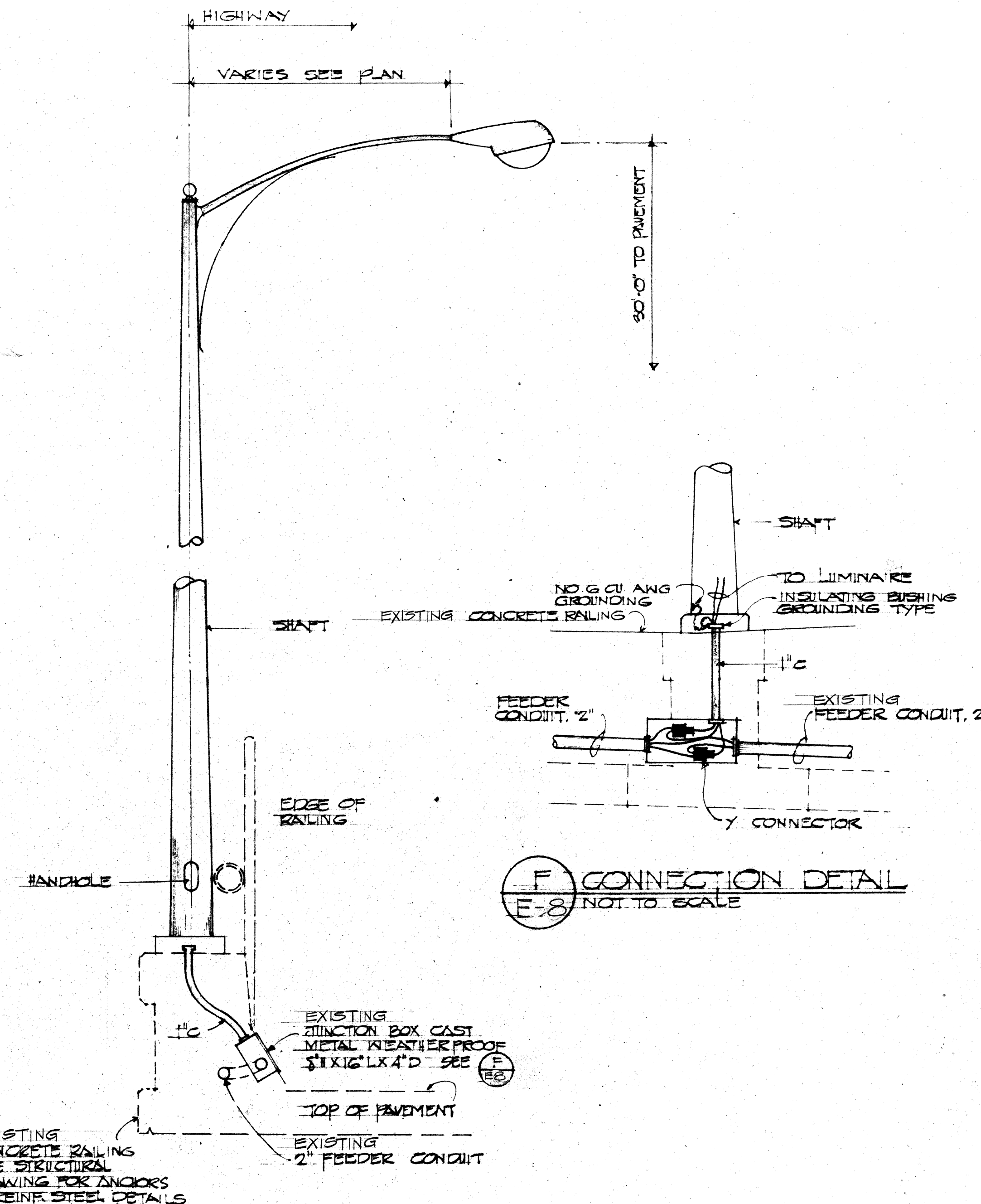
B POLE TAG DETAIL
E-8 NOT TO SCALE



C PLAN SECTION OF POST STANDARD
E-8 NOT TO SCALE

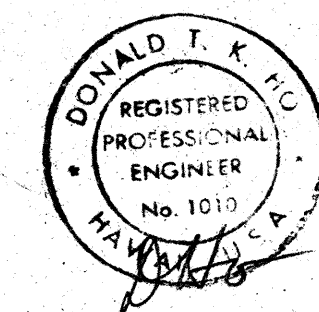


D TYPE "A" & "C" POST STANDARD DETAIL - TYPE "D"
E-8 SIMILAR TO "A" EXCEPT WITH TWO LIGHTS
NOT TO SCALE



E LIGHT STANDARD TYPE "B"
E-8 NOT TO SCALE

F CONNECTION DETAIL
E-8 NOT TO SCALE



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY LIGHTING - LIGHT STANDARDS AND DETAILS
INTERSTATE ROUTE H-1
WAI'ANA INTERCHANGE
F.A.I. PROJ. No. 1-HI-1(46):8
(PAVING OF H-2 CONNECTION)
Scale: As Shown Date: April, 1973
SHEET No. E-8 OF 8 SHEETS