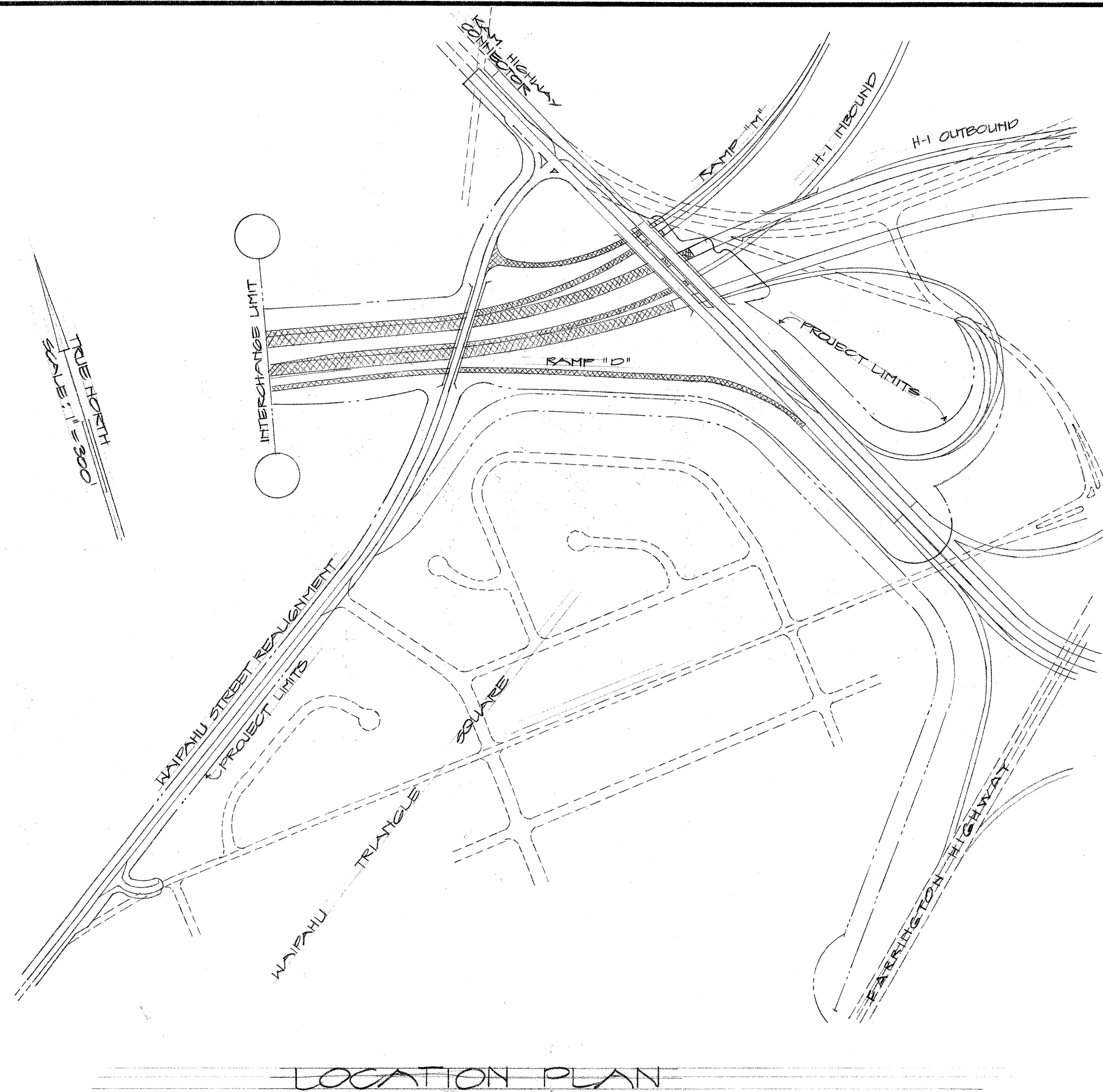




LEGEND

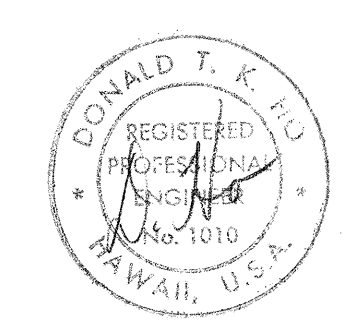
- ROADWAY TO BE PAVED.
- ROADWAY TO BE GRADED ONLY.
- FUTURE ROADWAY.

ELECTRICAL SYMBOL LIST

	TELEPHONE MANHOLE
	STREET LIGHT HANDHOLE
	DUCT
	DUCT SECTION INDICATOR
	CONC. BASE FOR FUTURE STREET LIGHT POLE (SEE STRUCTURAL PLAN)
	JUNCTION BOX FOR FUTURE UNDERPASS LIGHTING
	STUB AND GAP DUCT
	INDICATES POLE NO. (NEW ELECTRIC POLE FOR OAHU SUGAR CO.)
	TOP HALF: POLE LENGTH/CLASS BOTTOM HALF: POLE FRAMING DETAIL "PI" POLE DETAIL INDICATOR
	NEW ELECTRIC OVERHEAD LINE FOR OAHU SUGAR CO.
	READER INDICATOR
	POLE ANCHOR AND GUY LINE
	EXISTING OVERHEAD ELECTRIC LINE TO REMAIN, OAHU SUGAR CO. LINE.
	EXISTING POLE TO REMAIN (OAHU SUGAR CO.)
	EXISTING ANCHOR AND GUY WIRE (OAHU SUGAR CO.)
	EXISTING POLE TO BE REMOVED (OAHU SUGAR CO.)
	EXISTING OVERHEAD ELECTRIC LINE TO BE REMOVED, OAHU SUGAR CO. LINE.
	EXISTING HAWAIIAN TEL. CO. LINE TO BE REMOVED BY HAWAIIAN TEL. CO.
	EXISTING TELEPHONE POLE TO BE REMOVED BY HAWAIIAN TEL. CO.
	NEW STREET LIGHT STANDARD
	EXISTING SIGNAL CORP. CABLE TO BE ABANDONED AFTER INSTALLATION OF TEMPORARY OVERHEAD LINES BY HAWAIIAN TELEPHONE CO.
	TEMPORARY STREET LIGHT POLE BY CONTRACTOR.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	141-1368	1967	54	124

DESIGNED BY	DATE
DRAWN BY	" "
CHECKED BY	" "
NOTED BY	" "
NO.	" "



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN
SYMBOL LIST

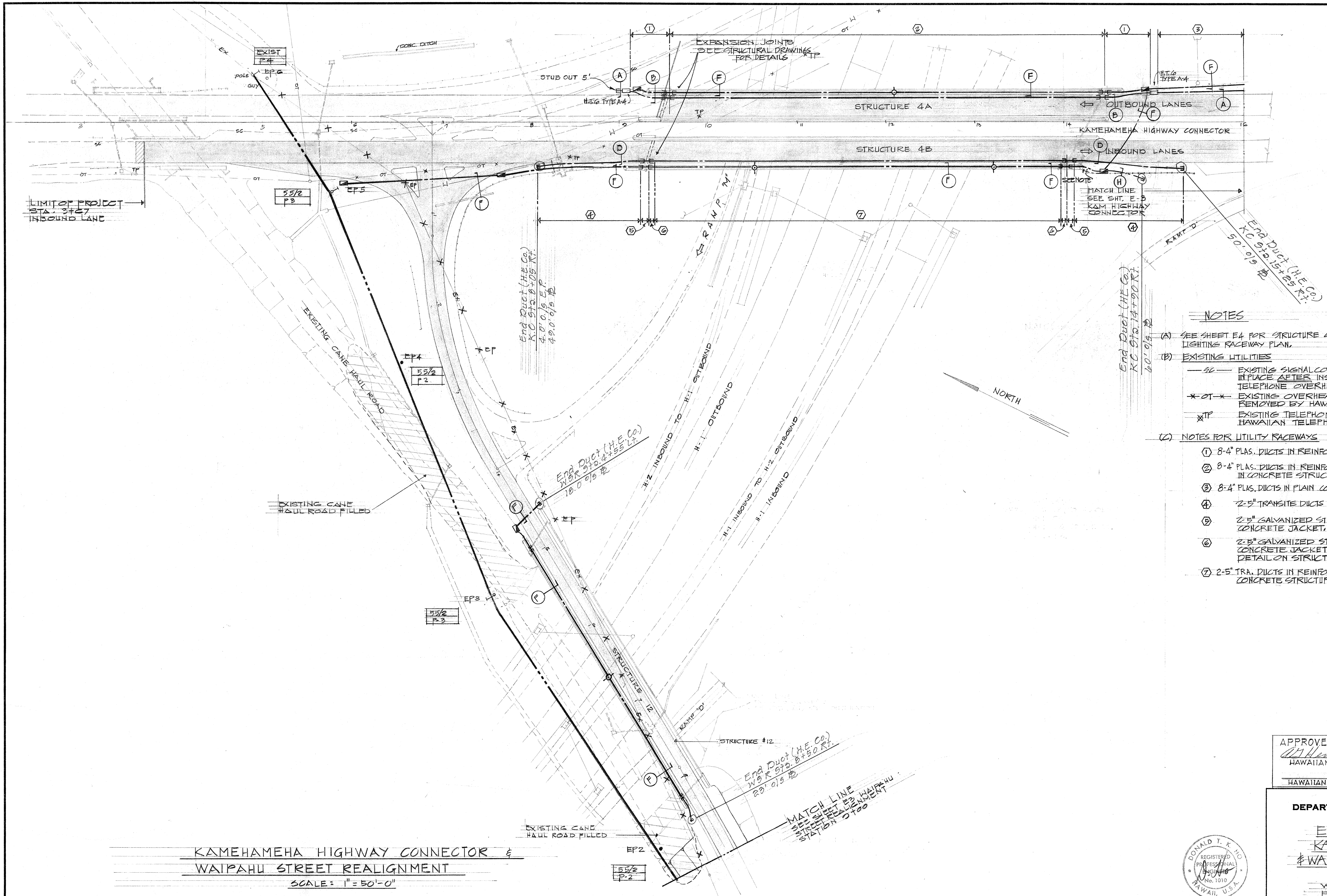
WAIAWA INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(36)8

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SCALE AS SHOWN DATE Oct. 19, 1967

SHEET No. E-1 OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(30)8	1967	55	124

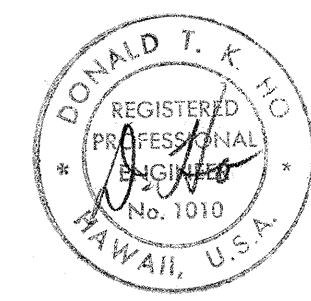


- NOTES**
- (A) SEE SHEET E-4 FOR STRUCTURE 4A & 4B UNDERPASS LIGHTING RACEWAY PLAN.
- (B) EXISTING UTILITIES
- SC — EXISTING SIGNAL CORP CABLE TO BE ABANDONED IN PLACE AFTER INSTALLATION OF TEMPORARY TELEPHONE OVERHEAD BY HAWAIIAN TELEPHONE CO.
 - * OT * EXISTING OVERHEAD TELEPHONE LINE TO BE REMOVED BY HAWAIIAN TELEPHONE CO.
 - * TP EXISTING TELEPHONE POLE TO BE REMOVED BY HAWAIIAN TELEPHONE CO.
- (C) NOTES FOR UTILITY RACEWAYS
- (1) 8-4" PLAS. DUCTS IN REINFORCED CONCRETE JACKET (H.T. CO.)
 - (2) 8-4" PLAS. DUCTS IN REINFORCED CONCRETE JACKET IN CONCRETE STRUCTURE (SEE DETAIL ON STRUC. PLAN, (H.T. CO.)
 - (3) 8-4" PLAS. DUCTS IN PLAIN CONCRETE JACKET (H.T. CO.)
 - (4) 2-5" TRANSITE DUCTS IN REINFORCED CONCRETE JACKET (H.E. CO.)
 - (5) 2-5" GALVANIZED STEEL CONDUIT IN REINFORCED CONCRETE JACKET (H.E. CO.)
 - (6) 2-5" GALVANIZED STEEL CONDUITS IN REINFORCED CONCRETE JACKET IN CONCRETE STRUCTURE (SEE DETAIL ON STRUCTURAL PLAN) (H.E. CO.)
 - (7) 2-5" TRA. DUCTS IN REINFORCED CONCRETE JACKET IN CONCRETE STRUCTURE (SEE DETAIL ON STRUC. PLAN, (H.E. CO.)

KAMEHAMEHA HIGHWAY CONNECTOR &
 WAIPAHU STREET REALIGNMENT
 SCALE: 1" = 50'-0"

APPROVED:
W. Henderson 10-18-67
 HAWAIIAN ELECTRIC CO., INC. DATE
J. H. Hall 10-18-67
 HAWAIIAN TELEPHONE CO., LTD. DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 ELECTRICAL PLAN
 KAM HIGHWAY CONNECTOR
 & WAIPAHU ST. REALIGNMENT
 WAIANA INTERCHANGE
 F.A.I. PROJ. NO. I-HI-1(30)8

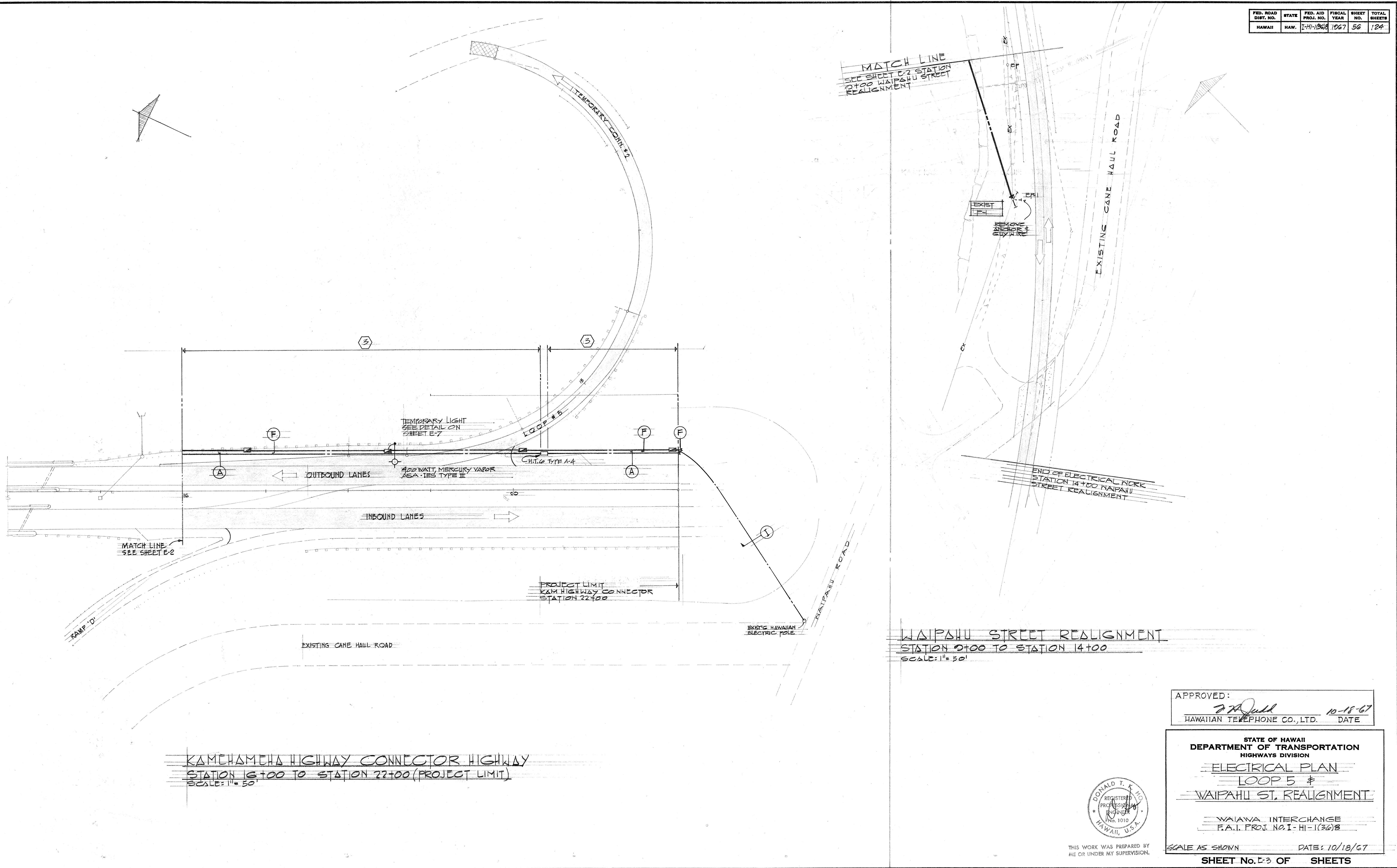


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 ME OR UNDER MY SUPERVISION.

SCALE AS SHOWN DATE: 10/18/67
 SHEET No. E2 OF SHEETS

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1368	1967	56	124



WAIPAHI STREET REALIGNMENT
STATION 9+00 TO STATION 14+00
SCALE: 1" = 50'

KAMOHAMUA HIGHWAY CONNECTOR HIGHWAY
STATION 16+00 TO STATION 22+00 (PROJECT LIMIT)
SCALE: 1" = 50'

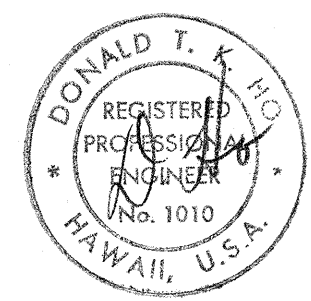
APPROVED: *[Signature]* 10-18-67
HAWAIIAN TELEPHONE CO., LTD. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PLAN
LOOP 5 #
WAIPAHI ST. REALIGNMENT

WAIANA INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(36)8

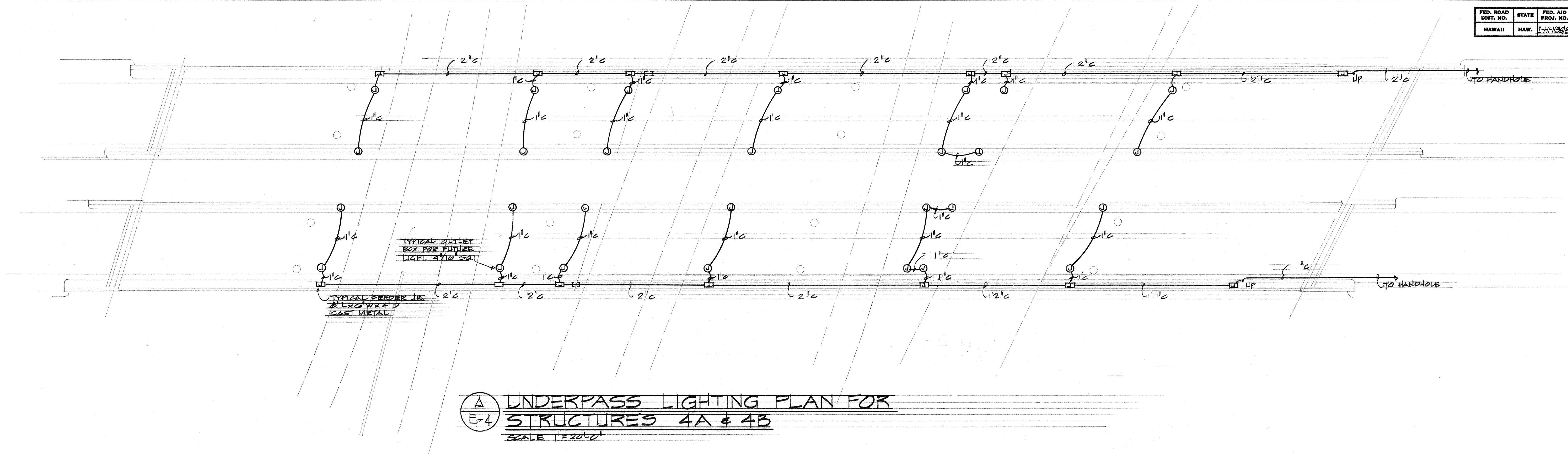
SCALE AS SHOWN DATE: 10/18/67

SHEET No. 56 OF 56 SHEETS

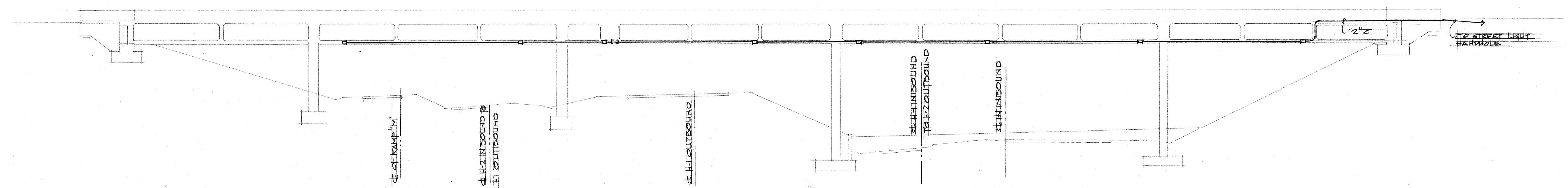


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ME OR UNDER MY SUPERVISION.

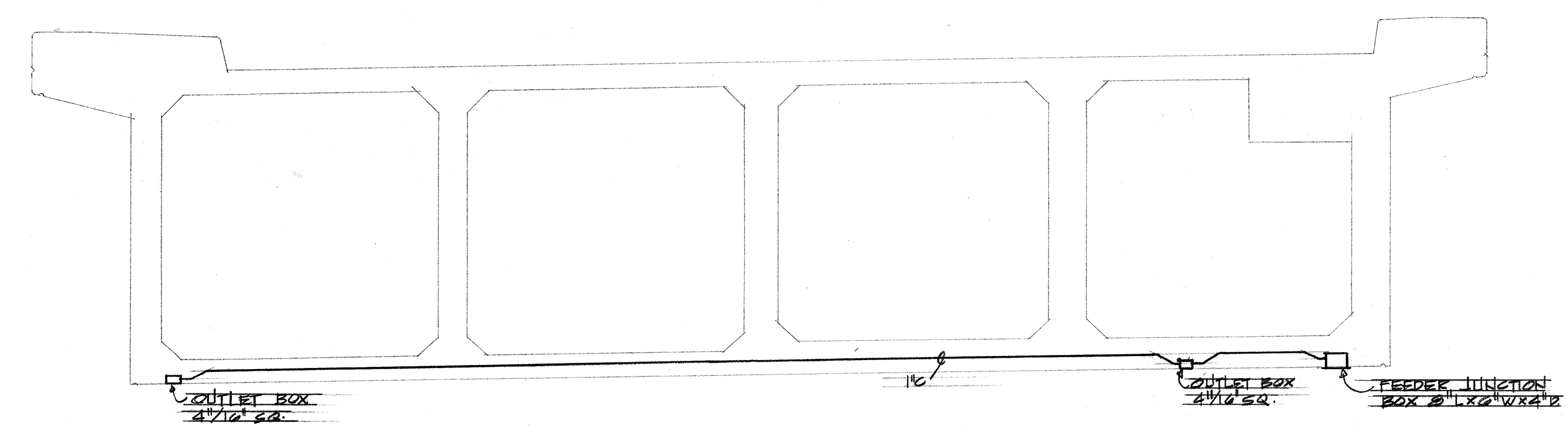
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1368	1967	57	124



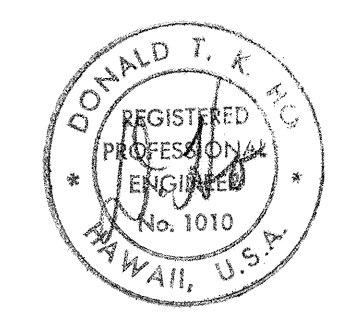
A UNDERPASS LIGHTING PLAN FOR STRUCTURES 4A & 4B
SCALE 1"=20'-0"



B SECTION-RISER DIAGRAM UNDERPASS LIGHTING FEEDER RACEWAY FOR STRUCTURE 4A (STRUCTURE 4B SIMILAR)
SCALE 1"=20'-0"



C DETAIL-TYPICAL OUTLET CONNECTION FOR STRUCTURE 4A (4B SIMILAR)
SCALE 3/8"=1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

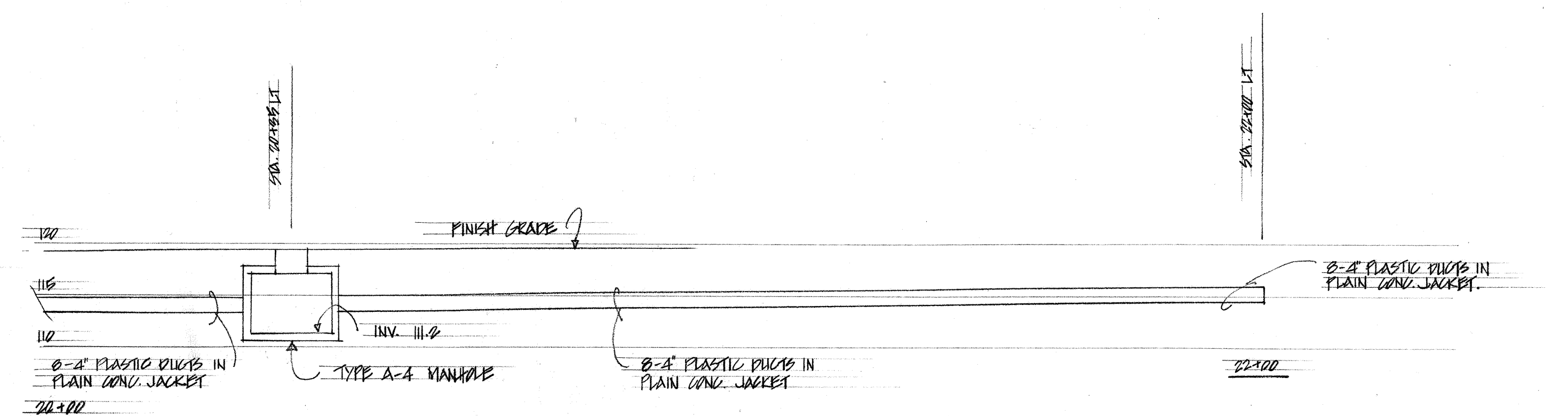
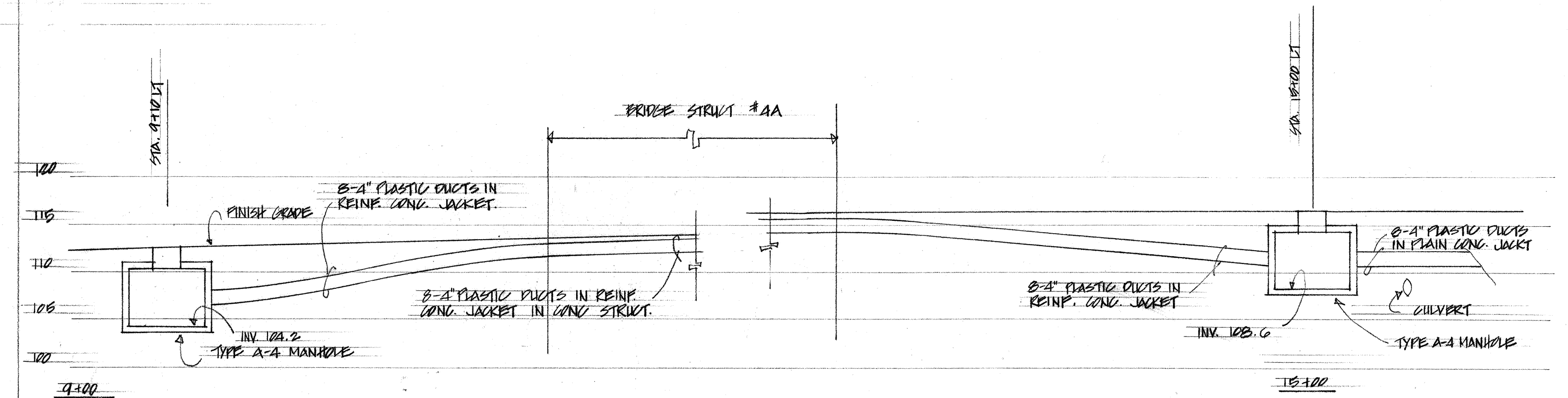
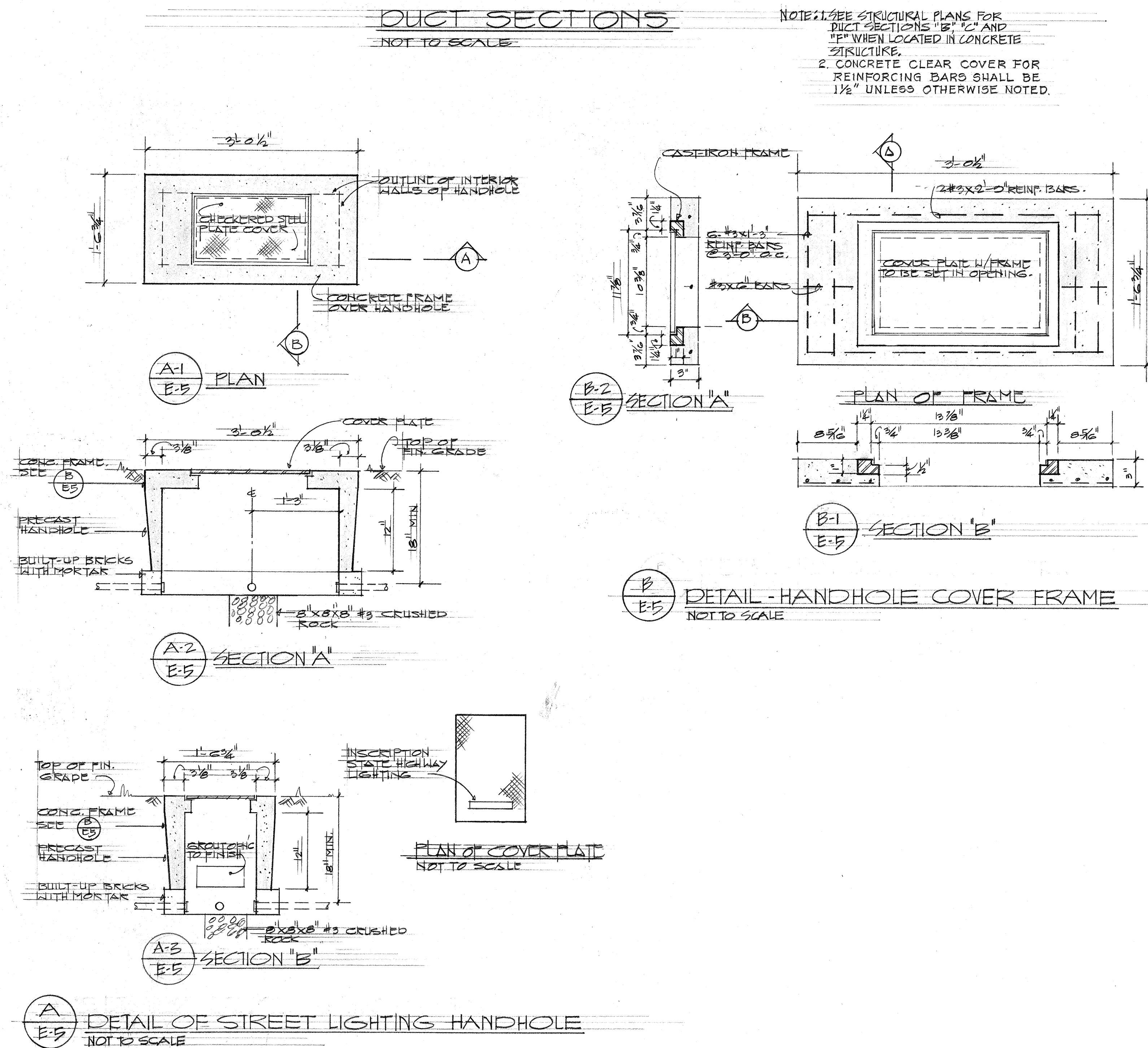
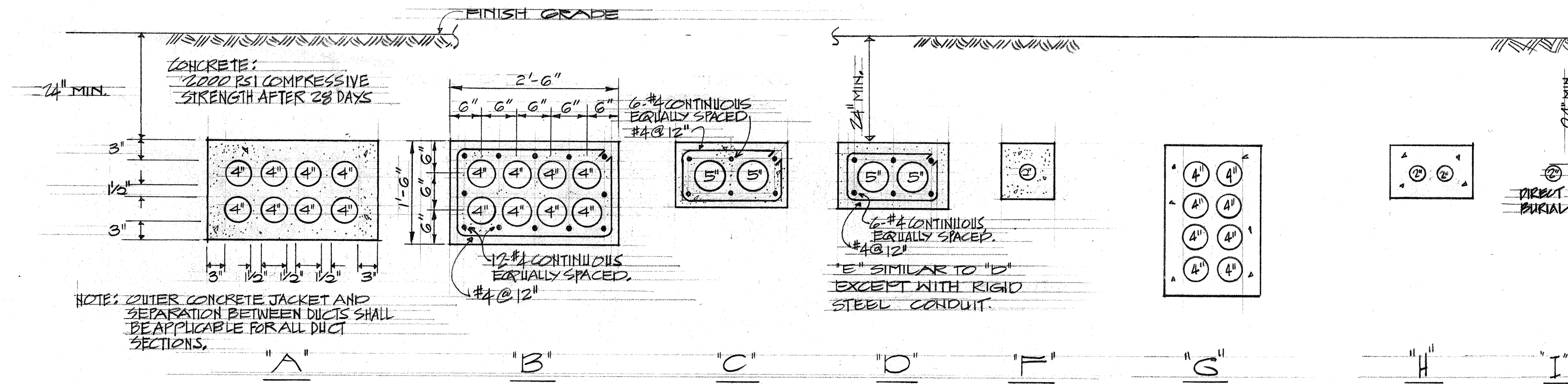
ELECTRICAL PLAN
STRUCTURE 4A & 4B
UNDERPASS

WAIANA INTERCHANGE
F.A.I. PROJ. NO. I-H-1368

SCALE AS SHOWN DATE OCT. 19, 1967

SHEET No. E-4 OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-136B	1967	58	124



APPROVED:
HAWAIIAN ELECTRIC CO., INC. 10-18-67
HAWAIIAN TELEPHONE CO., LTD. 10-18-67

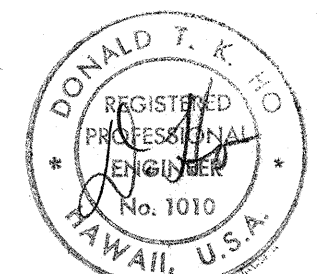
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

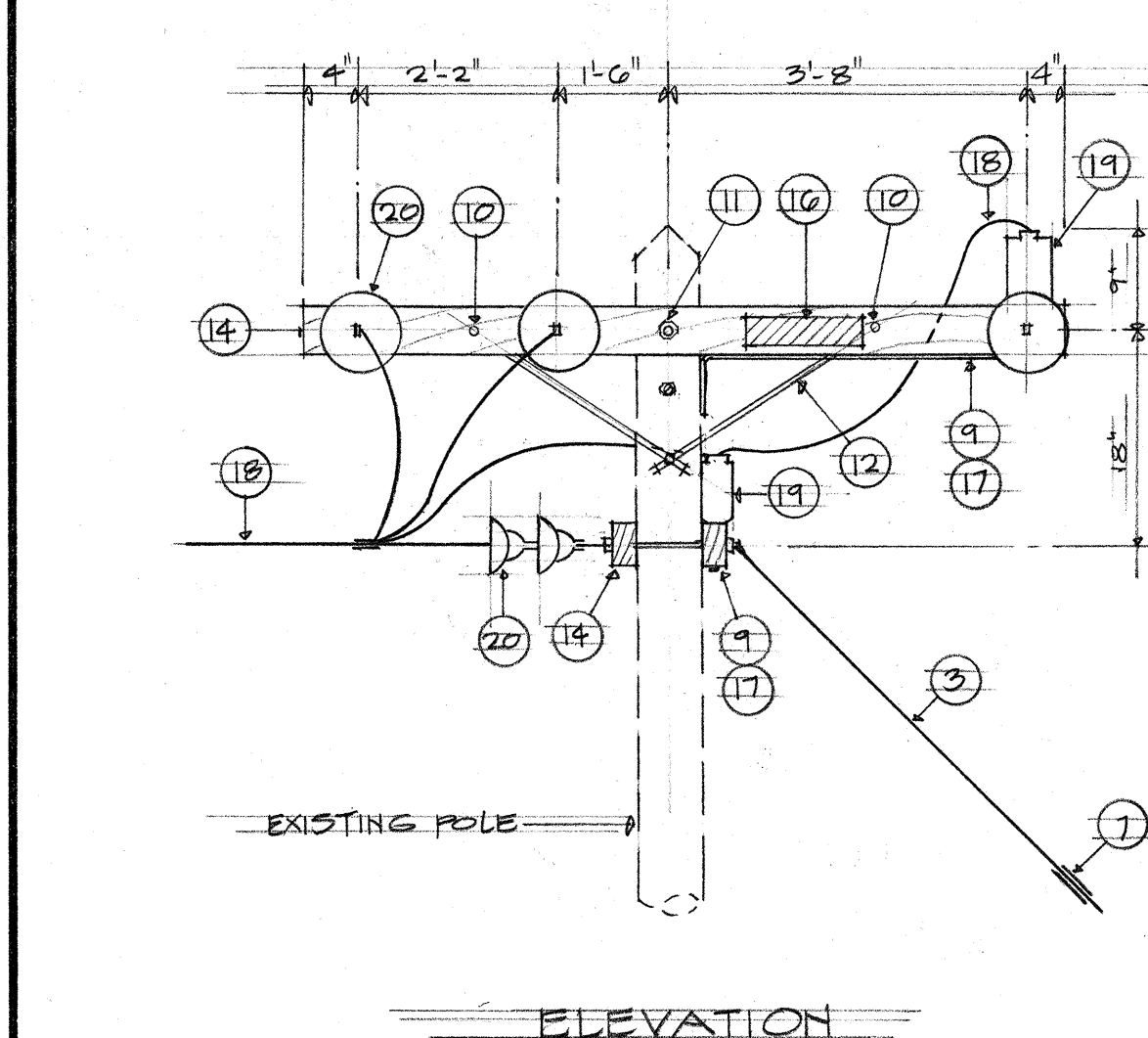
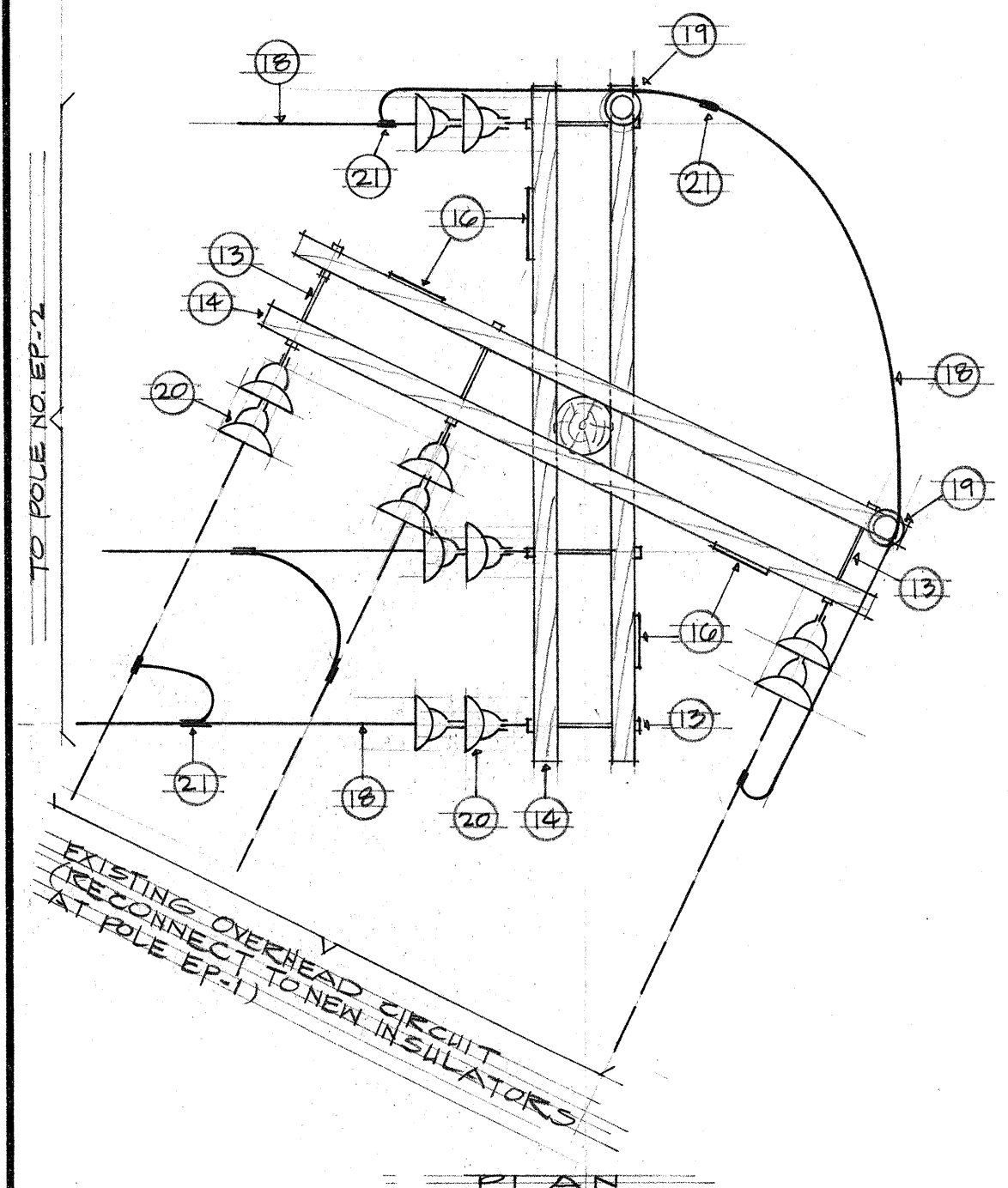
ELECTRICAL DUCT SECTIONS
STREET LIGHT HANDHOLE
DETAILS

YALOWA INTERCHANGE
F.A.I. PROJ. NO. I-HI-136B

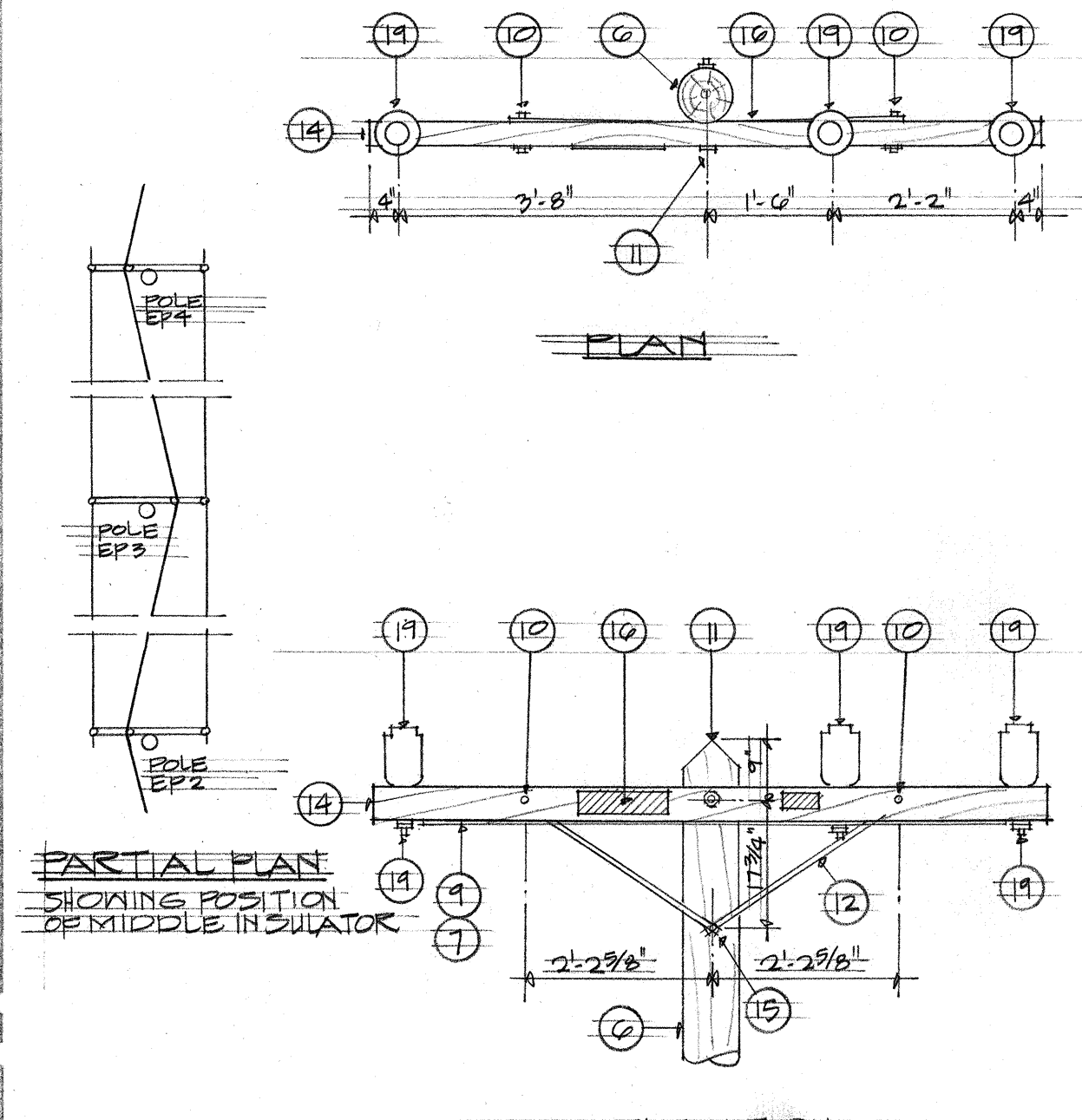
SCALE AS SHOWN DATE: 10/18/67
SHEET No. 58 OF 58 SHEETS

THIS WORK WAS PREPARED BY
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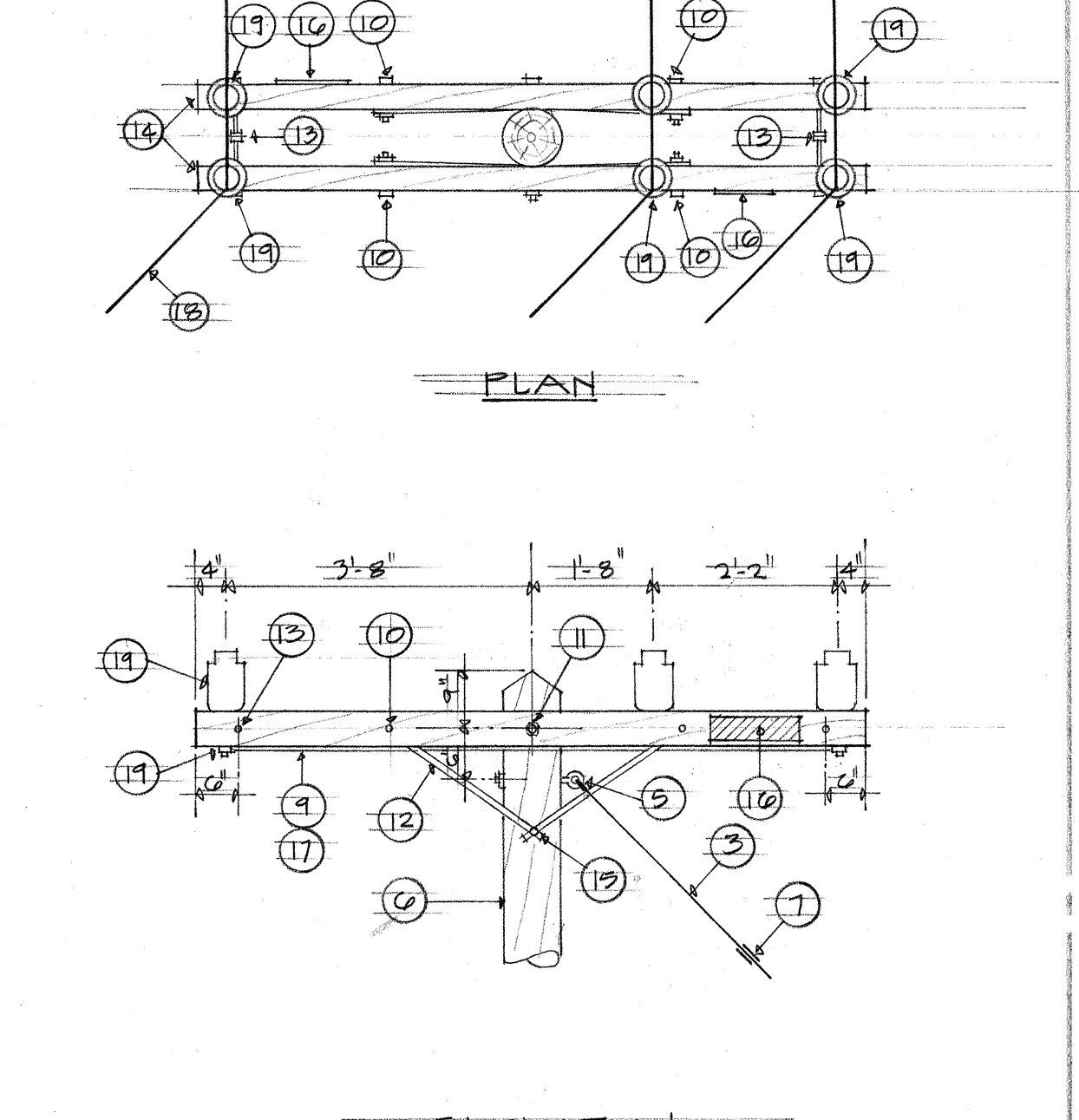




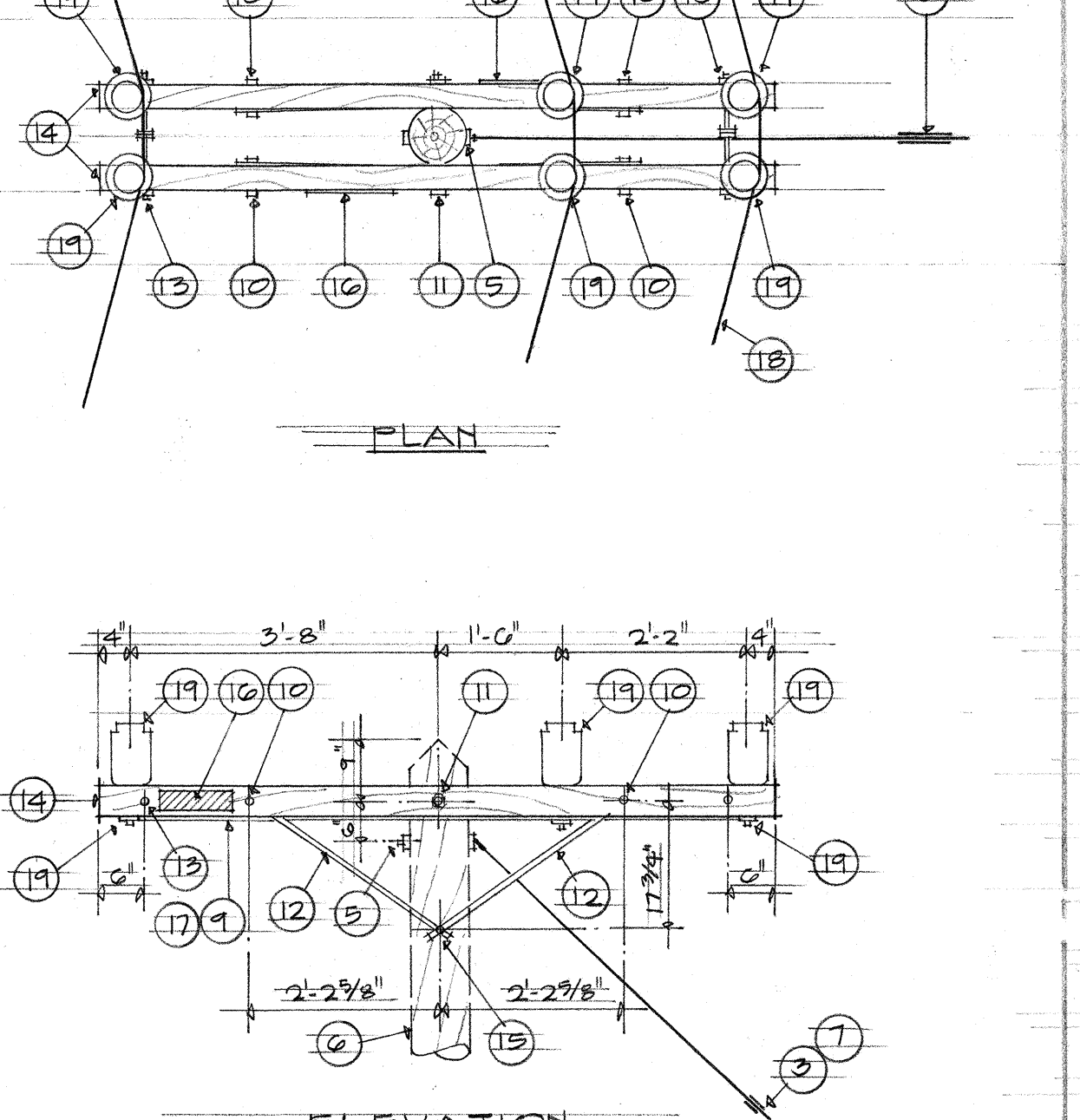
POLE NO EP-1 - EXISTING
POLE WITH NEW 3-PHASE DEAD
END



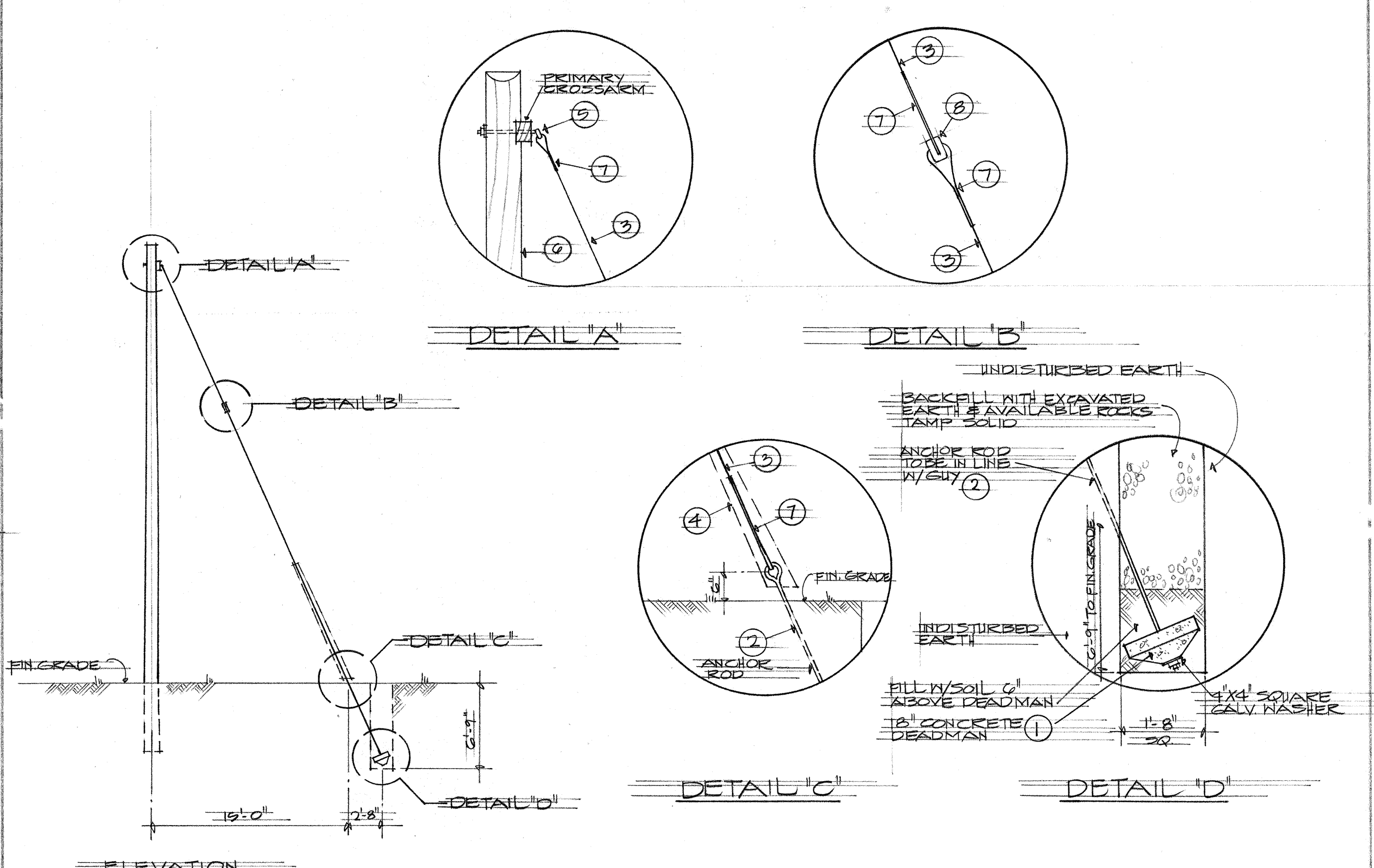
SINGLE ARM THRU CONDITION



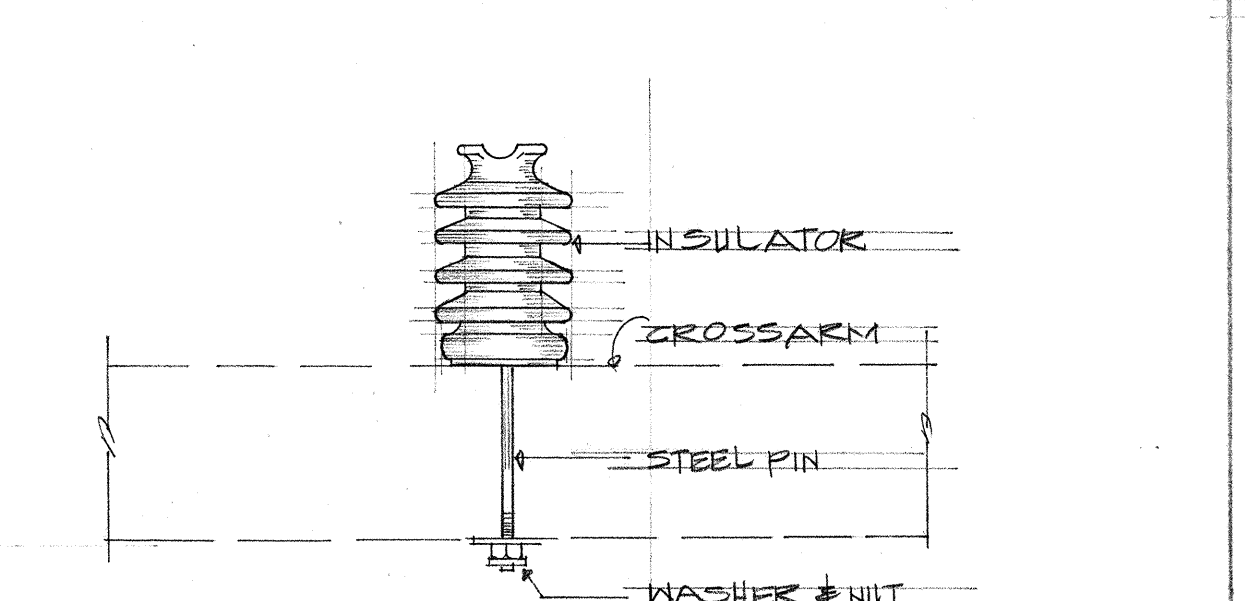
ANGLE CONSTRUCTION



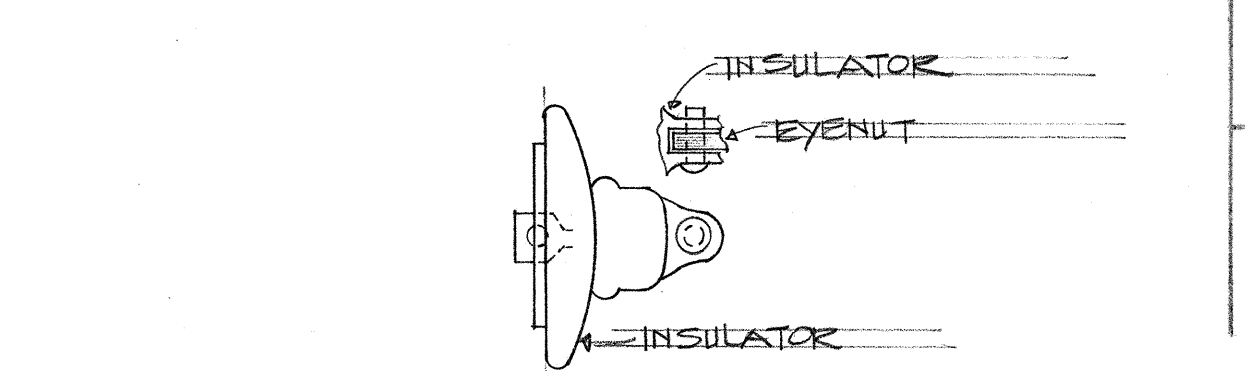
ANGLE CONSTRUCTION - EXIST'G POLE



GUY & ANCHORING REQUIREMENTS
NOT TO SCALE

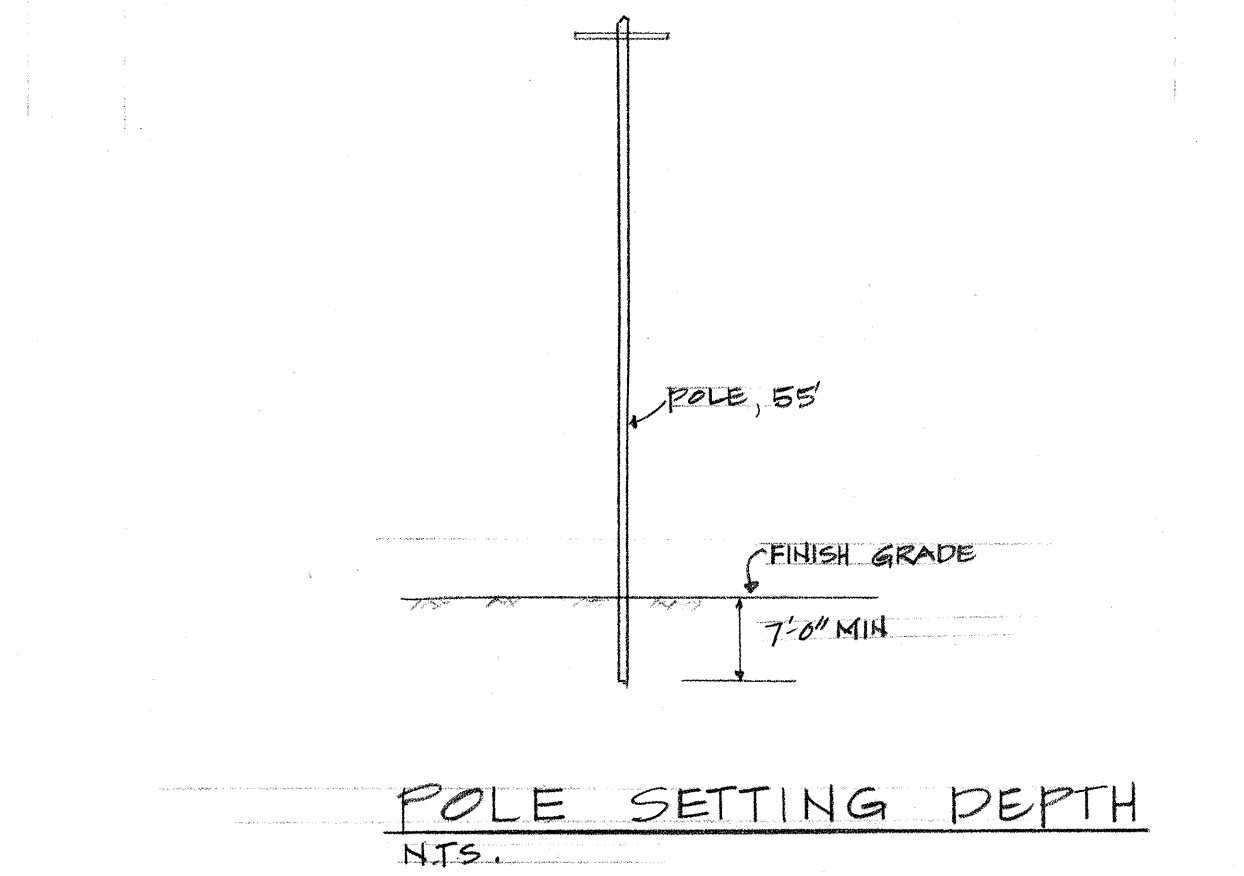


TYPICAL POST TYPE
INSULATOR W/ STEEL PIN
N.T.S.

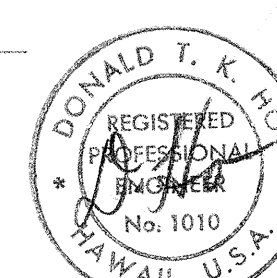


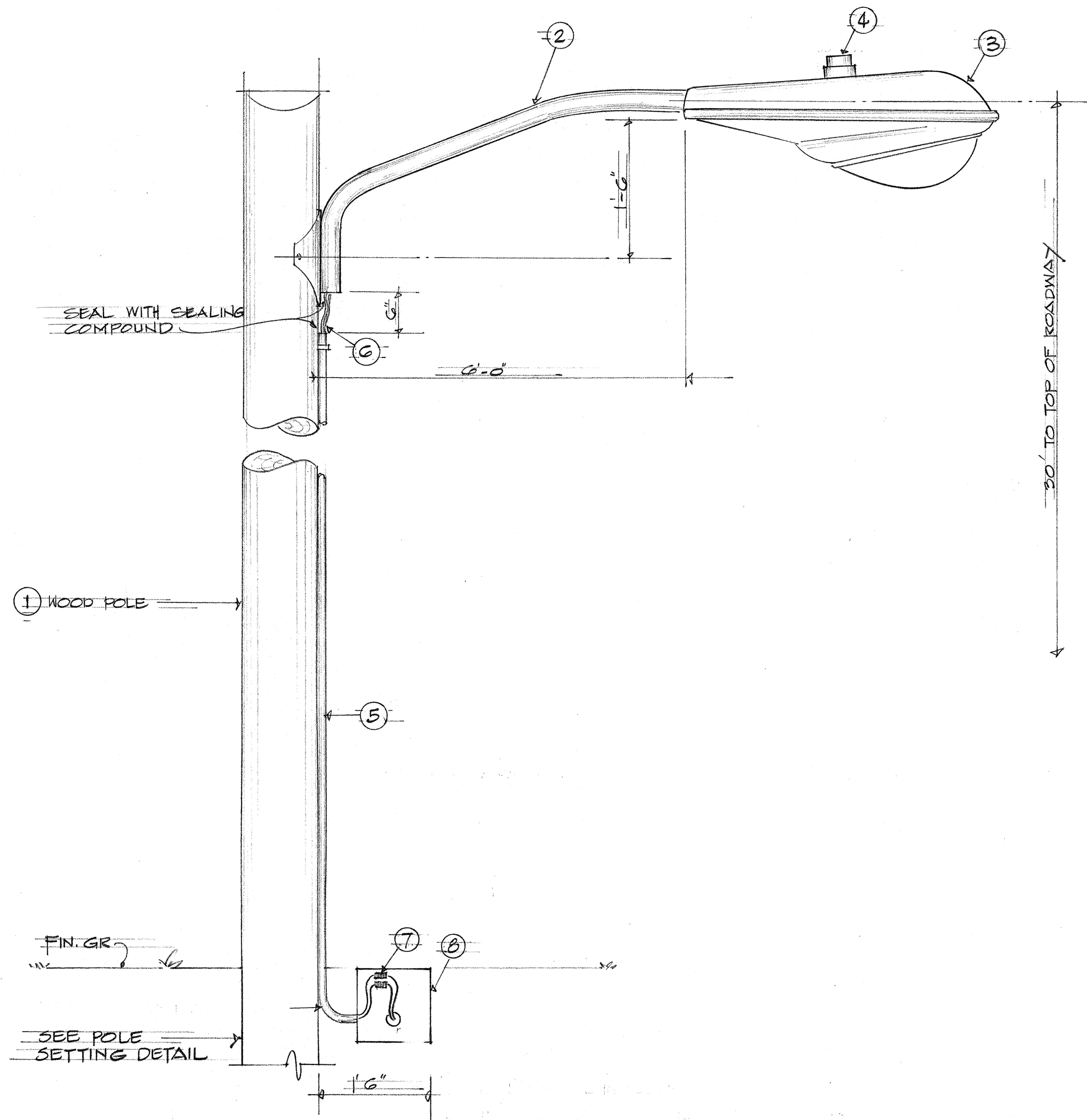
CLEVIS DEADEND
INSULATOR
N.T.S.

MATERIAL LIST - OVERHEAD SYSTEM	
POLE & ANCHOR GROUP (SEE SPECIFICATION)	
1	ANCHOR SLUG, CONCRETE, 18" DIAMETER
2	ANCHOR ROD, 1" X 8'-0" TRIPLE EYE W/ WASHER & NUT
3	GUY STRAND, 3/8" DIAMETER
4	GUY GUARD, 8'-0" LONG, STEEL
5	GUY EYE BOLT, 5/8" DIAMETER
6	POLE, CREOSOTE, ASA CLASS 2
7	PREFORMED STREND GRIPS
8	STRAIN INSULATOR, 20,000# STRENGTH
9	BONDING WIRE, #6 SDCB & STABLES
10	CROSSARM BRACE BOLT, MACHINE, 3/8" DIA. WASHER & NUT
11	CROSSARM BOLT, 5/8" DIA. WASHER & NUT
12	CROSSARM BRACE 1/4" X 1/4" X 30" (5'-7" ARM)
13	DOUBLE ARMING BOLT, 5/8" DIA. WASHER & NUTS
14	CROSSARM 3/4" X 4 1/2" X 8'-0"
15	LAG SCREW, 1/2" DIAMETER
16	SIGN, HIGH VOLTAGE WITH FLATHEAD NAILS
17	WOOD MOLDING, 1/2" WIRING WITH 2-HOLE STRAP NAILS
18	CONDUCTOR, PRIMARY, 13000 VOLTS NO. 4 MHDBO
19	INSULATOR, 19KV, POST TYPE WITH STEEL PINS
20	INSULATOR, 19KV, CLEVIS DEADEND W/ 5/8" MOUNTING BOLT, WASHER & NUT
21	LINE CONNECTOR



POLE SETTING DEPTH
N.T.S.



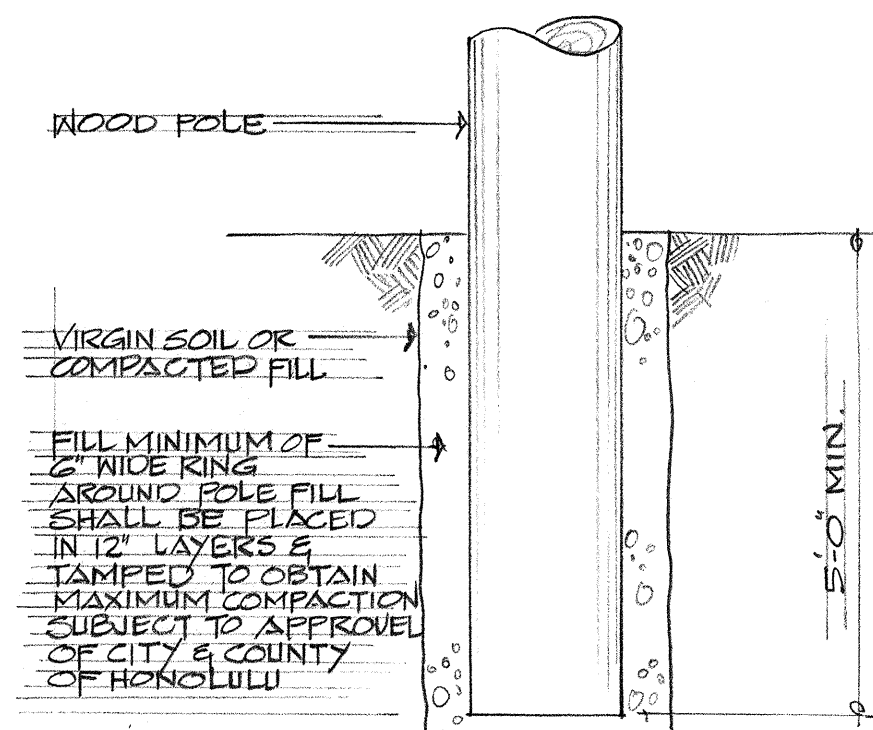


TEMPORARY STREET LIGHT POLE DETAILS

NOT TO SCALE

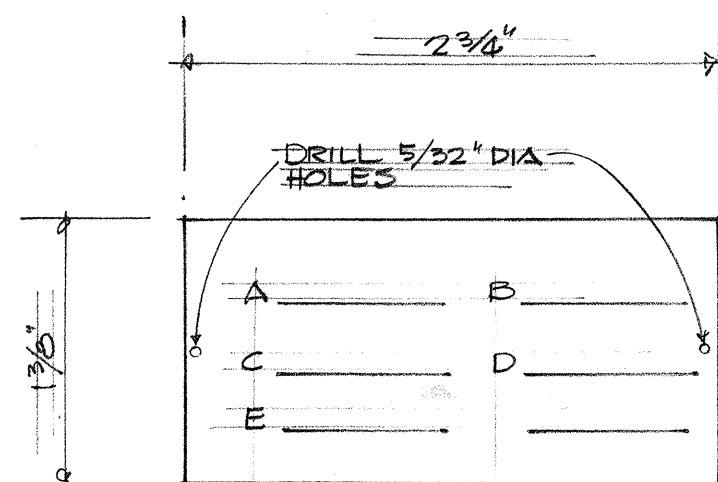
MATERIAL LIST

ITEM NO.	DESCRIPTION
1.	WOOD POLE, 35 FOOT LONG, CLASS 5
2.	BRACKET ARM
3.	LUMINAIRE
4.	PHOTOELECTRIC CELL
5.	CONDUIT: GALVANIZED RIGID STEEL UP TO 8'-0" ABOVE GRADE, PVC SCHEDULE 40 FROM 8'-0" TO TOP
6.	CABLE, 600V, RINJ OR NEC TYPE THW. SEE ONE LINE DIAGRAM
7.	FUSE CONNECTOR
8.	STREET LIGHT PULLBOX



DETAIL - POLE SETTING

NOT TO SCALE

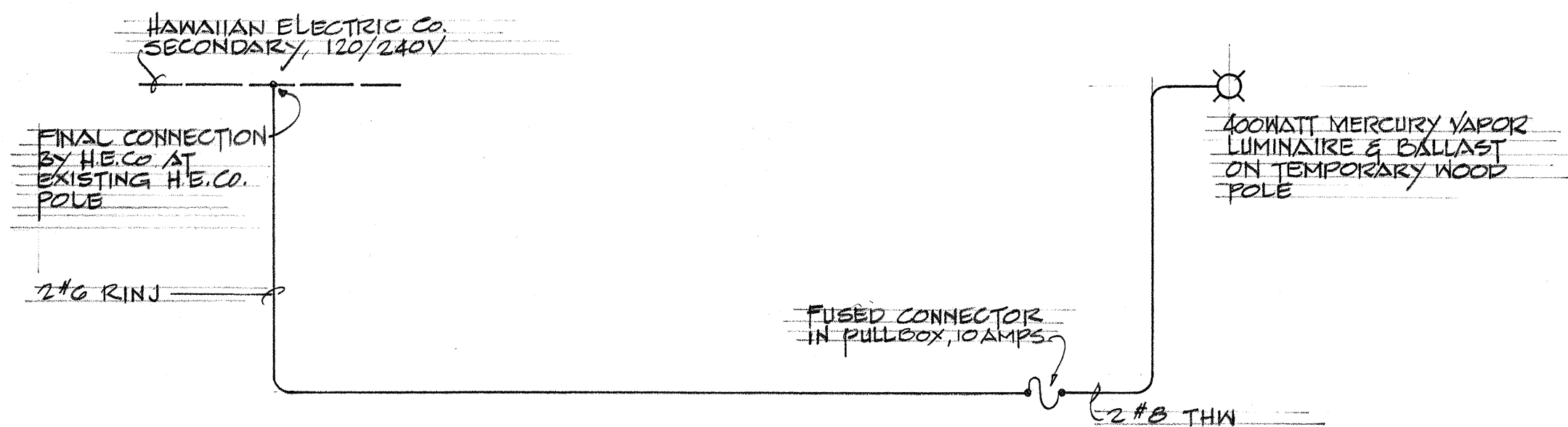


NOTE:
FABRICATE FROM 0.040 ALUMINUM 1/4" HIGH COMMERCIAL GOTHIC LETTERS ENGRAVED OR STENCILED. ATTACH TO POLE WITH 2 NO. 6 CADMIUM PLATED SCREWS.

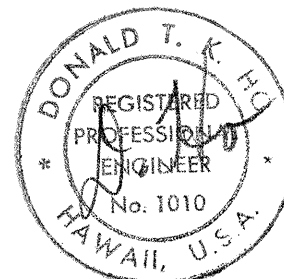
NOTE:
A. CONTRACT NO. (OBTAIN FROM HECO.)
B. LAMP NUMBER: 1
C. LAMP DATA: 400MV
D. REFRACTOR NO.: ASA - IES III
E. POLE NO.: 1

DETAIL IDENTIFICATION TAG

NOT TO SCALE



ONE LINE DIAGRAM



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

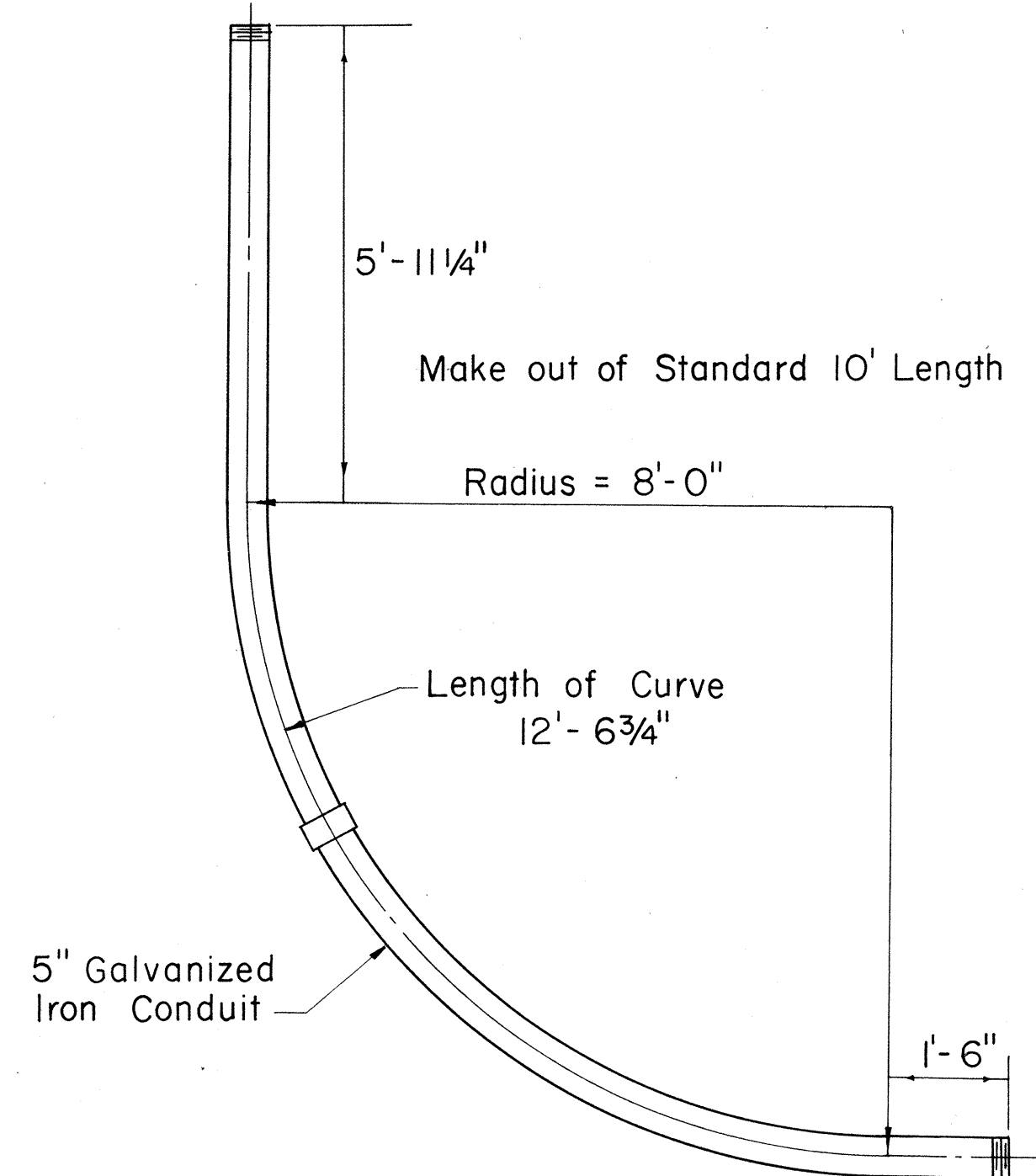
STREET LIGHT DETAILS

KAIAWA INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(36)B

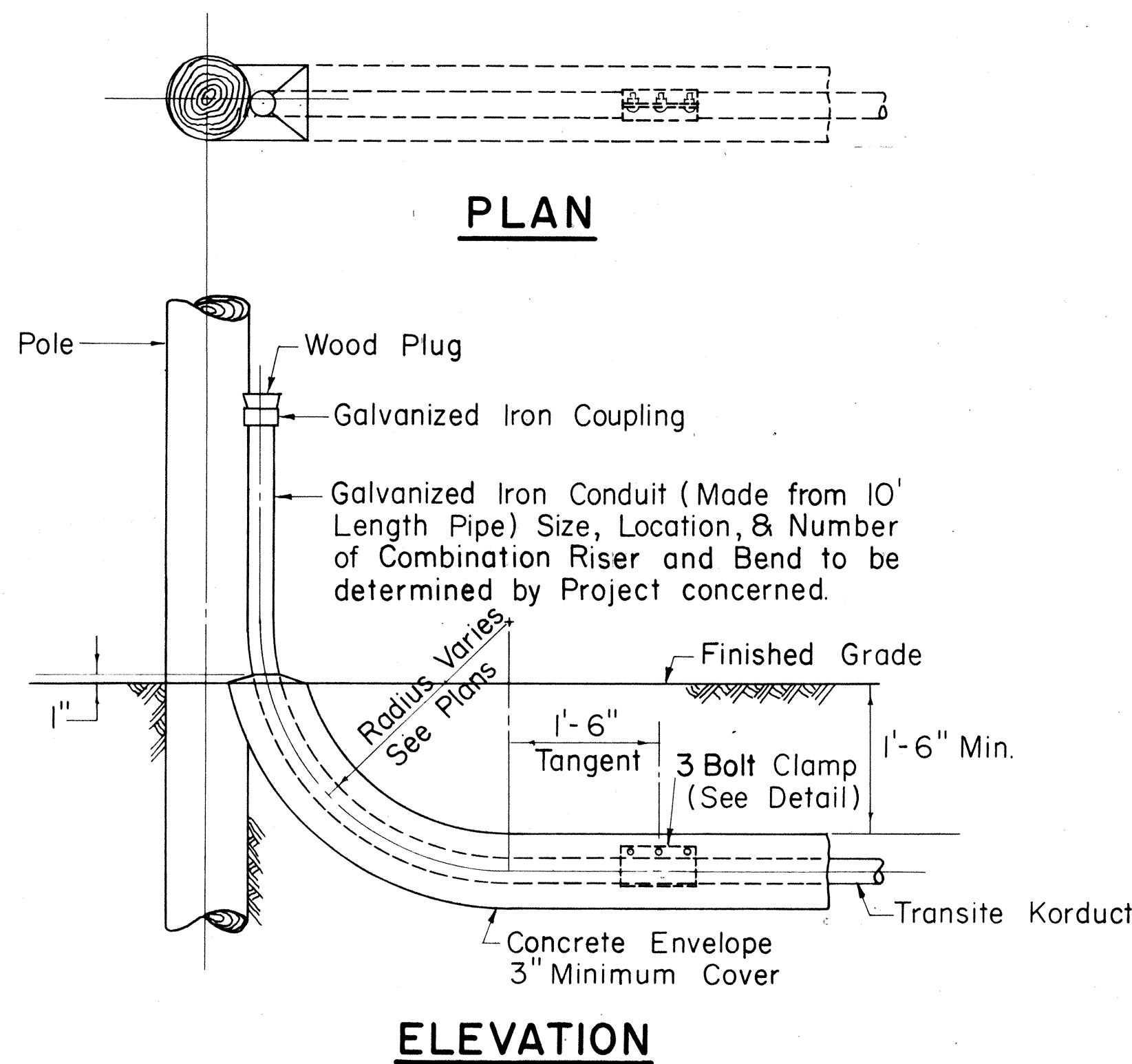
SCALE AS SHOWN DATE: OCT. 19, 1967

SHEET No. E7 OF SHEETS

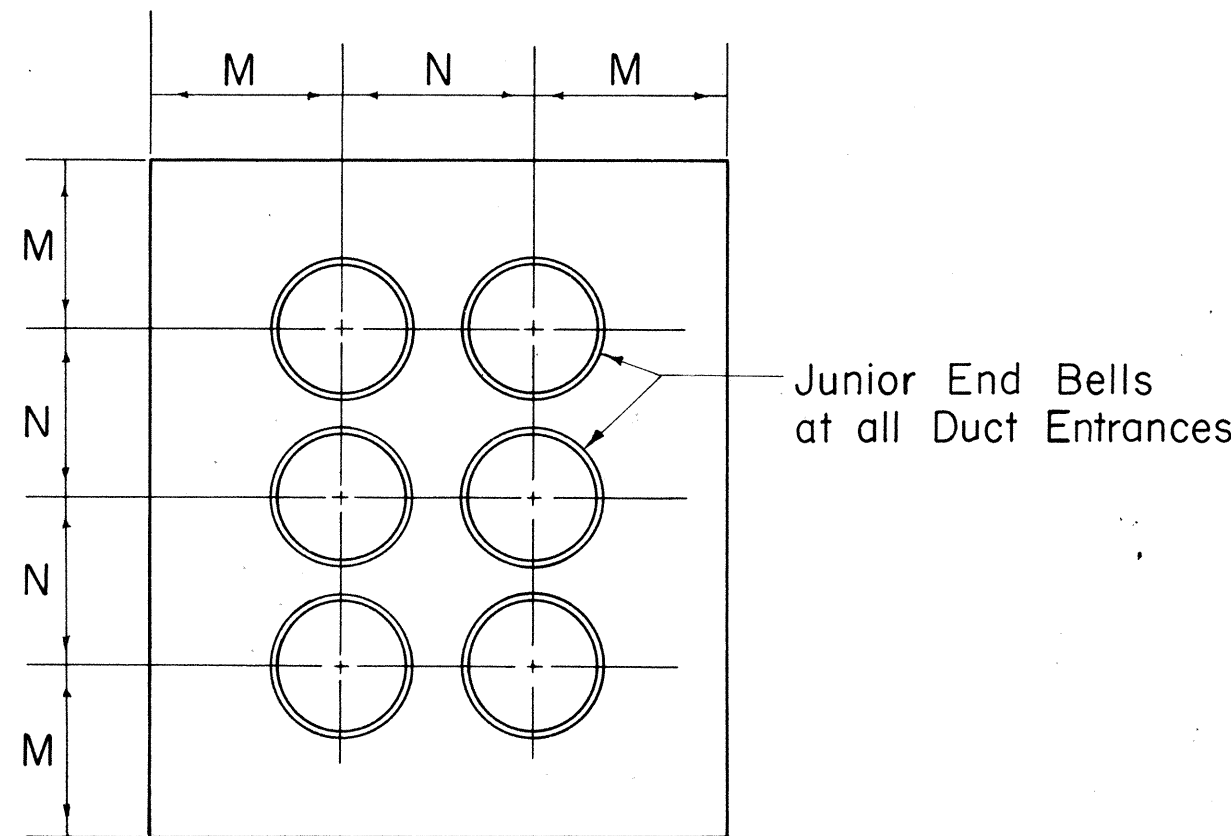
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-HI-1(36)8	1967	61	124



46 KV COMBINATION RISER AND BEND
(8'-0" RADIUS)
Not to Scale

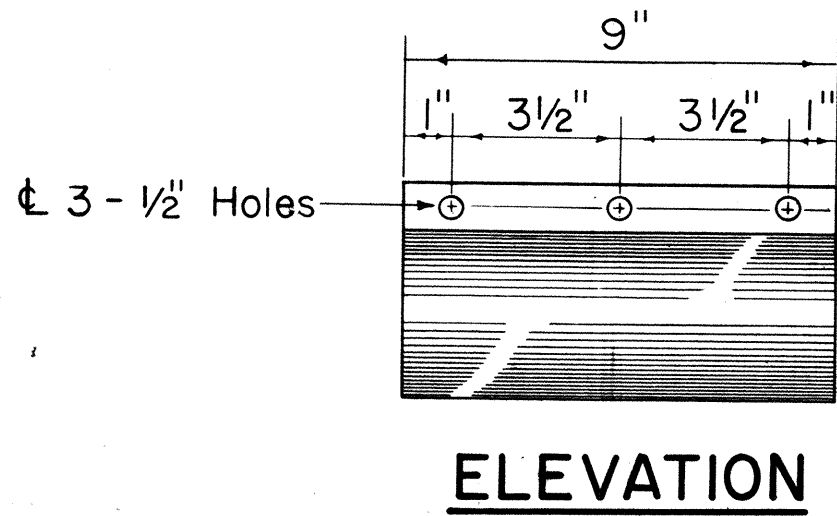
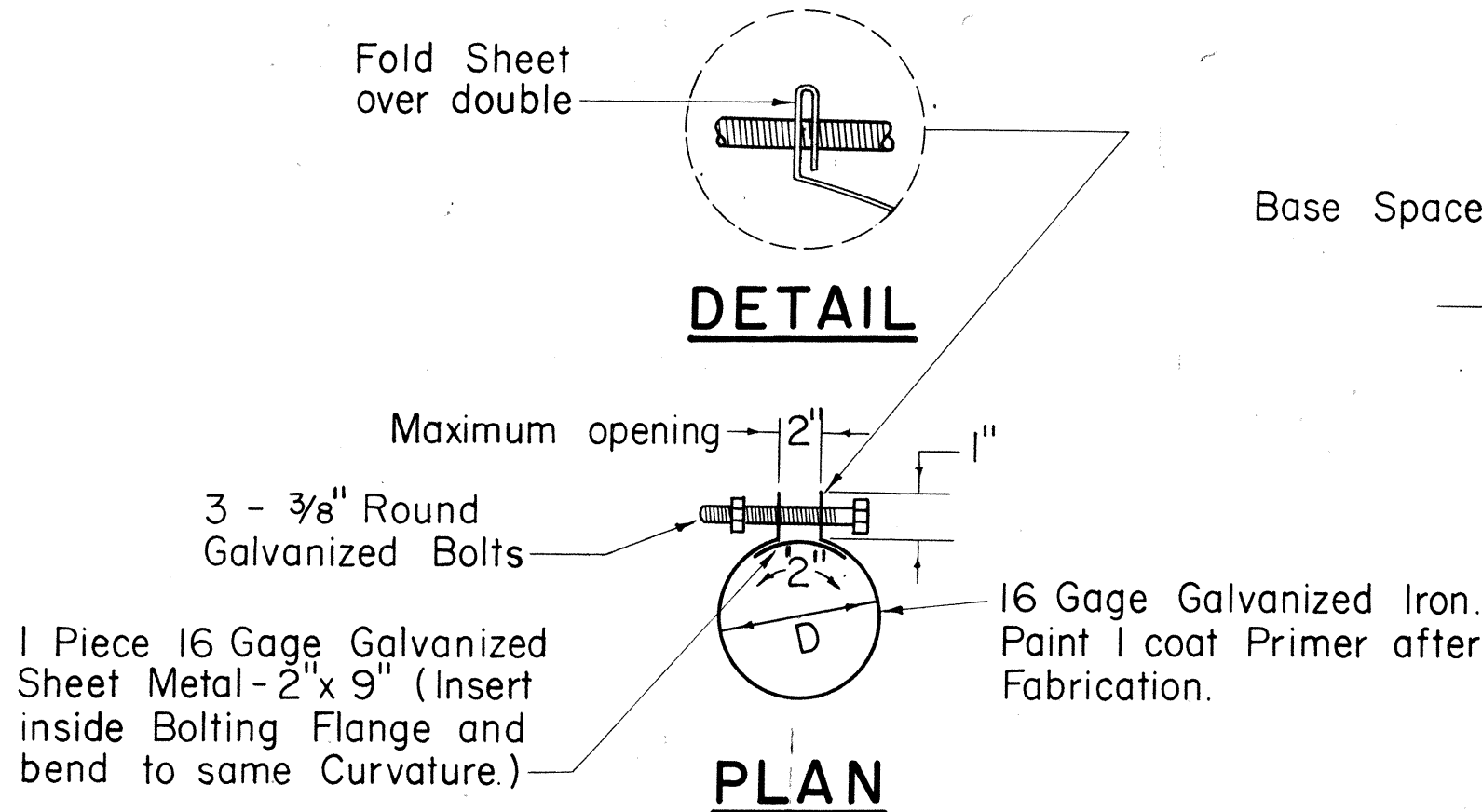


TYPICAL DETAIL COMBINATION RISER AND BEND
Scale: 3/4" = 1'-0"

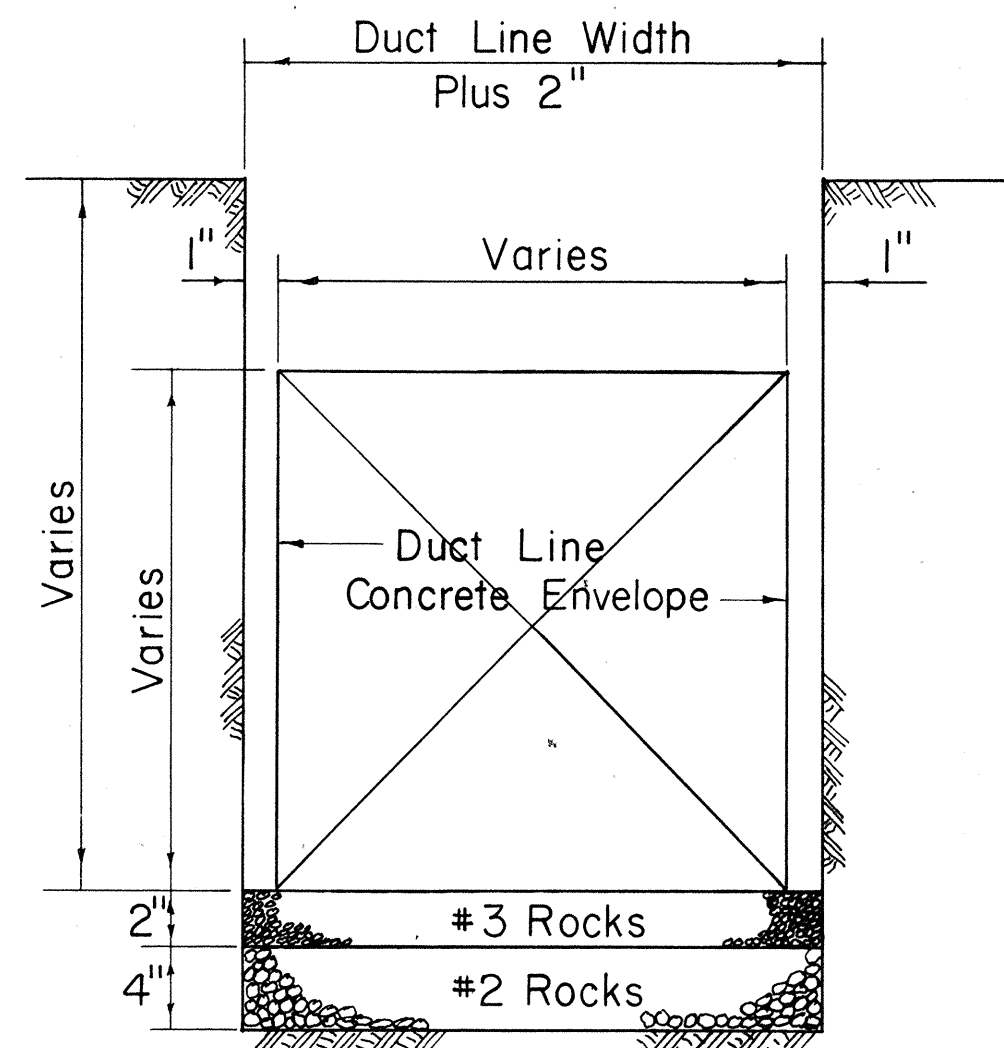


TYPICAL DUCT DETAIL AT MANHOLE WALL
Not to Scale

SIZE	M	N
3"	5"	6"
4"	5 1/2"	7"
4 1/2"	5 1/2"	7 1/2"
5"	6"	8"



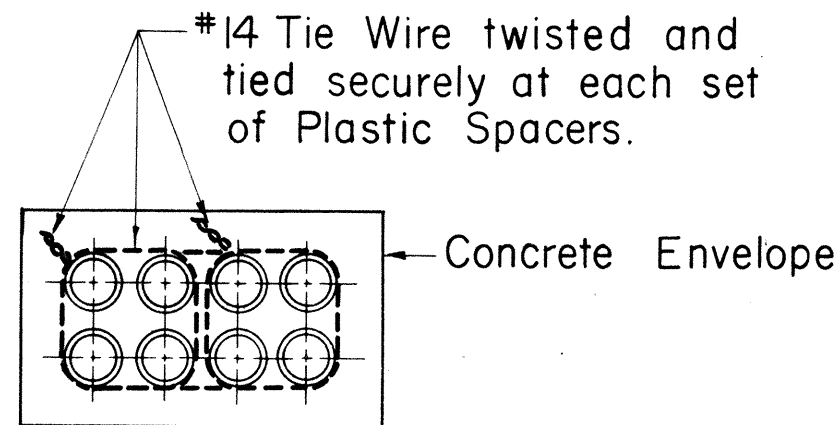
3 BOLT CLAMP DETAIL
Scale: 3" = 1'-0"



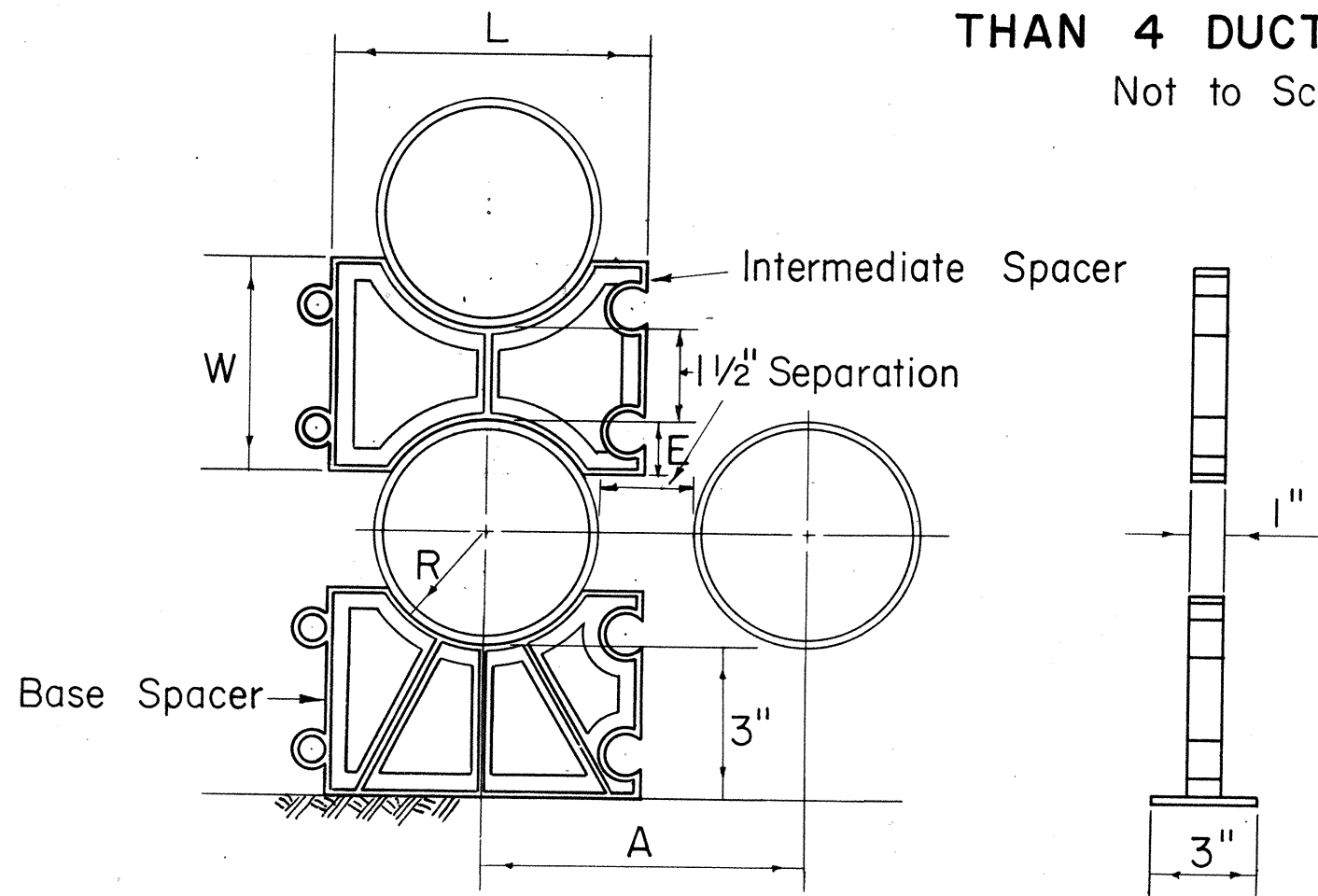
TYPICAL EXCAVATION DETAIL
Not to Scale

NOTES

1. Size of Concrete Envelope and Depth of Excavation to be determined by Project concerned.
2. Widen Trench Excavation when Forms are used.
3. Rock Foundation required only when Water is encountered.



TIE WIRE DETAIL
FOR DUCT LINE MORE THAN 4 DUCTS WIDE
Not to Scale



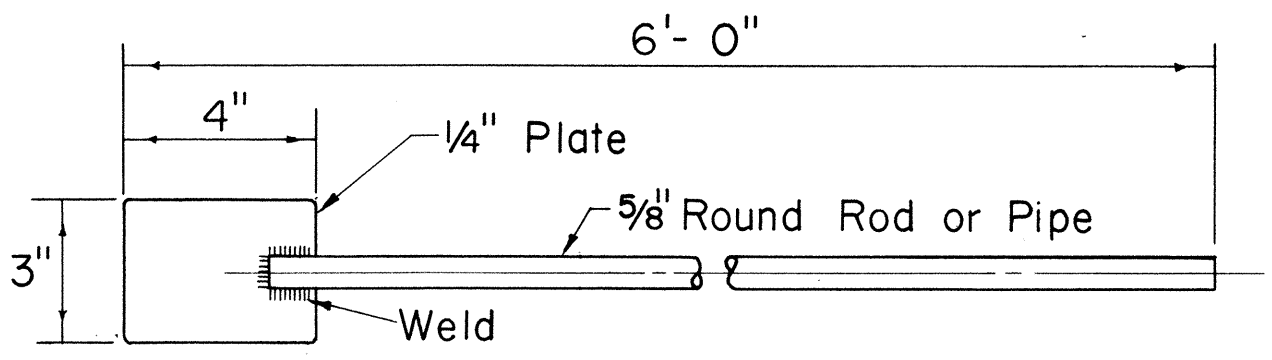
TYPICAL PLASTIC SPACERS
Not to Scale

SIZE	R	E	W	A	L
3"	1 27/32"	7/8"	3 1/4"	5 1/8"	5"
4"	2 13/32"	1 1/8"	3 3/4"	6 1/4"	6 1/8"
4 1/2"	2 23/32"	1 1/4"	4"	6 7/8"	6 3/4"
5"	3 1/16"	1 3/8"	4 1/4"	7 5/8"	7 1/2"

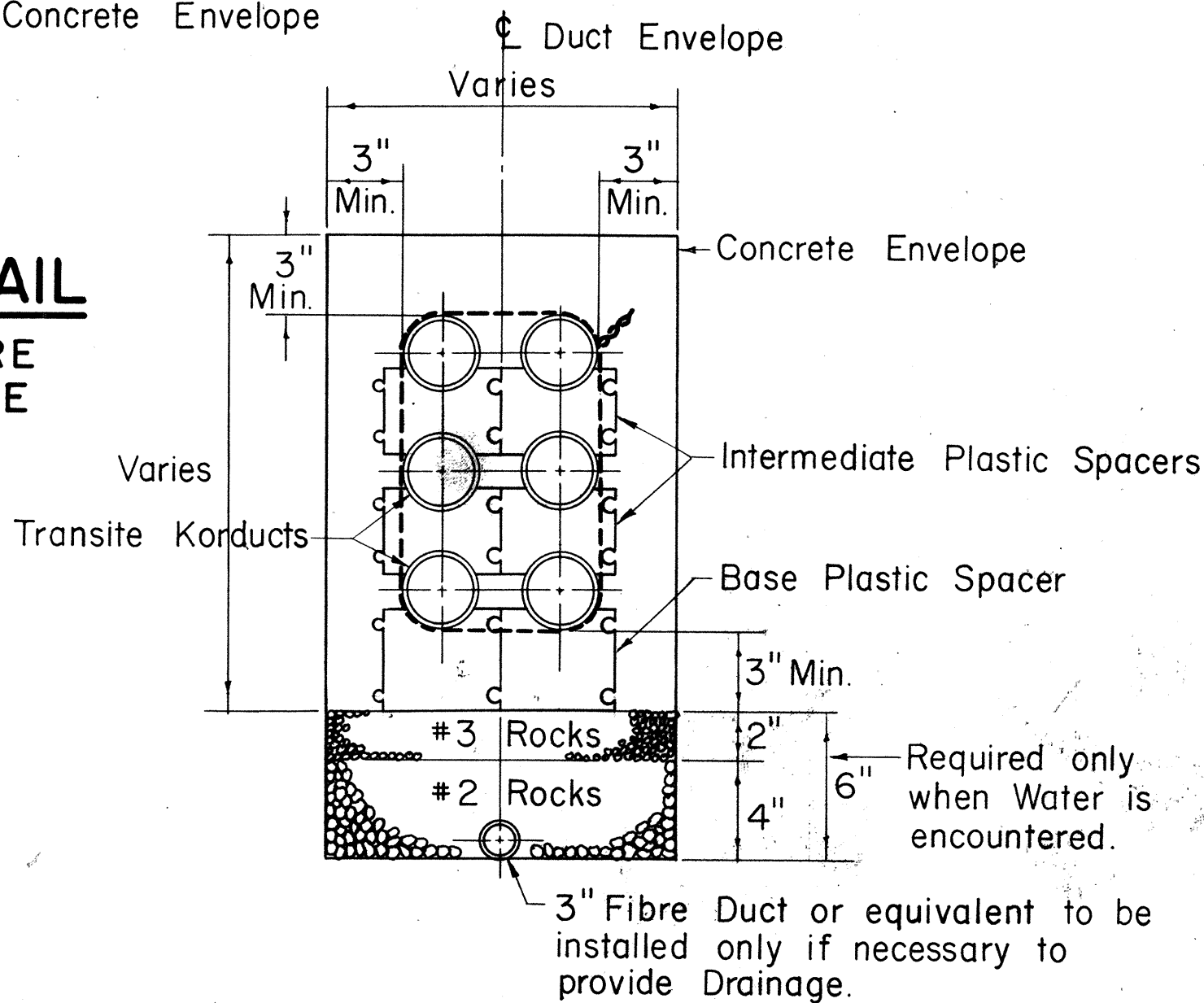
For 1 1/2" Separation

APPROVED:

Handwritten Signature 10-18-67
HAWAIIAN ELECTRIC CO., INC. DATE



CONCRETE DUCT ENVELOPE TAMPING ROD
Scale: 3" = 1'-0"

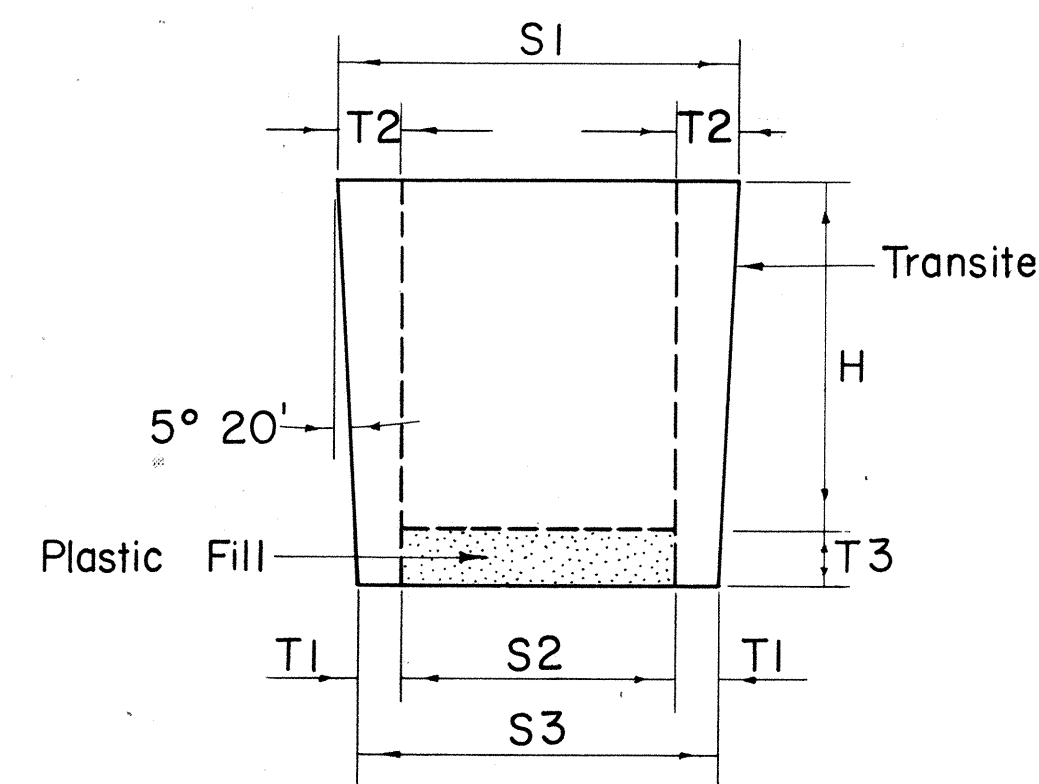


TYPICAL DUCT PLASTIC SPACERS & DRAINAGE SECTION
(6 WAY DUCT SHOWN - 3 HIGH - 2 WIDE)
Not to Scale

HECo., Inc. Drawing Number	SHEET No. 1 OF 2 SHEETS
18585	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STANDARD DETAILS	
CONSTRUCTION STANDARDS TRANSITE KORDUCTS UNDERGROUND DUCT LINES	
F.A.I. PROJ. No. I-HI-1(36)8	
Scales: As Noted	Date: 10/18/67

SHEET NO. OF SHEETS

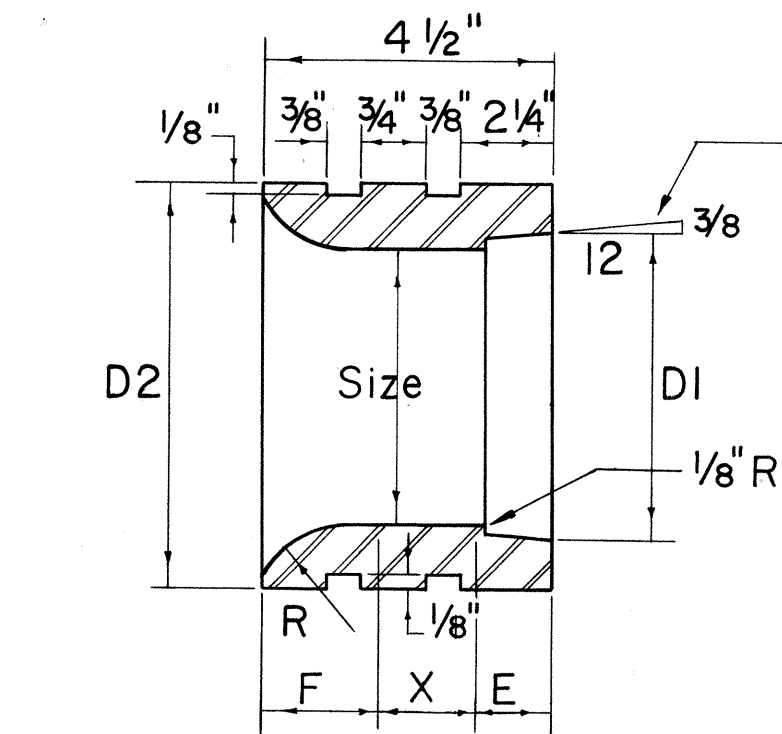
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-H-1(36)8	1967	62	124



PLUGS FOR TRANSITE KORDUCTS

Not to Scale

SIZE	H	S1	S2	S3	T1	T2	T3
3"	4"	3 3/8"	2"	2 5/8"	5 1/16"	11 1/16"	3 3/4"
4"	4 1/2"	4 27/64"	2 3/4"	3 37/64"	13 3/32"	27 3/32"	3 3/4"
4 1/2"	4 1/2"	4 59/64"	3"	4 5/64"	35 3/64"	31 3/32"	3 3/4"
5"	4 1/2"	5 27/64"	3 1/2"	4 37/64"	35 3/64"	31 3/32"	3 3/4"



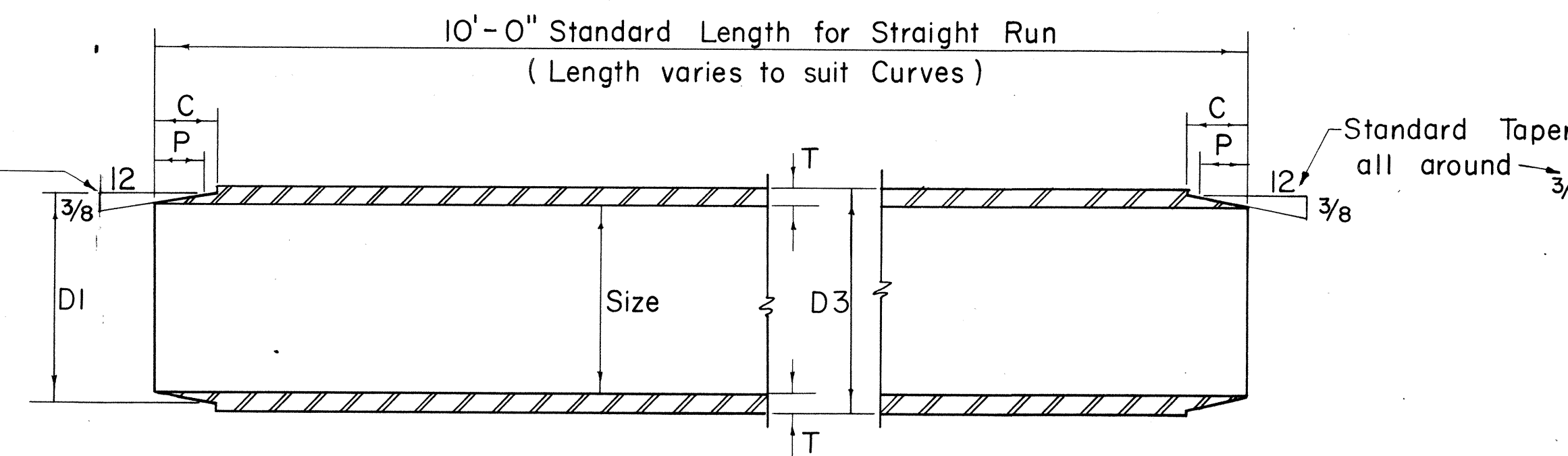
JUNIOR END BELLS

Not to Scale

SIZE	D1	D2	F	X	E	R
3"	3 25/64"	4 1/2"	1 11/32"	29 3/32"	1 1/4"	1 3/4"
4"	4 25/64"	5 3/4"	1 9/16"	9 9/16"	1 3/8"	2"
4 1/2"	4 57/64"	6 1/4"	1 9/16"	9 9/16"	1 3/8"	2"
5"	5 29/64"	7"	1 9/16"	7 1/16"	1 1/2"	2"

Note "X"

- Provide one set of Spacers
(a) 10 Ft. straight run for 4 Ducts high or less.
(b) 5 Ft. straight run for 5 Ducts high or more.



TRANSITE KORDUCTS

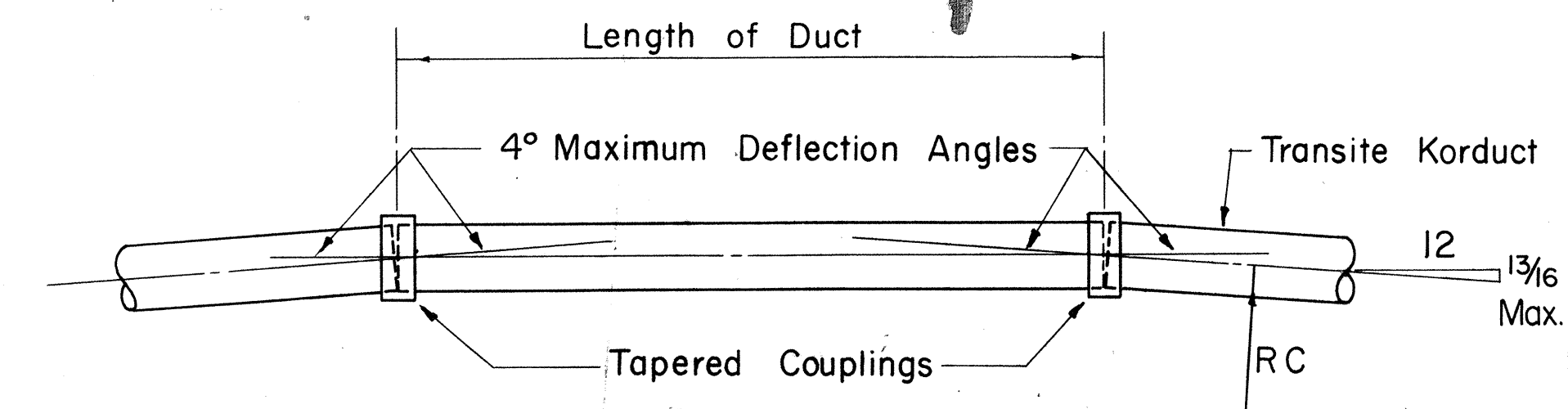
Not to Scale

SIZE	D1	D3	C	P	T
3"	3 25/64"	3 35/64"	1 1/8"	7 7/8"	17 1/64"
4"	4 25/64"	4 35/64"	1 1/4"	1"	17 1/64"
4 1/2"	4 57/64"	5 3/64"	1 1/4"	1"	17 1/64"
5"	5 29/64"	5 39/64"	1 1/8"	1 1/8"	19 1/64"

TAPERED COUPLINGS

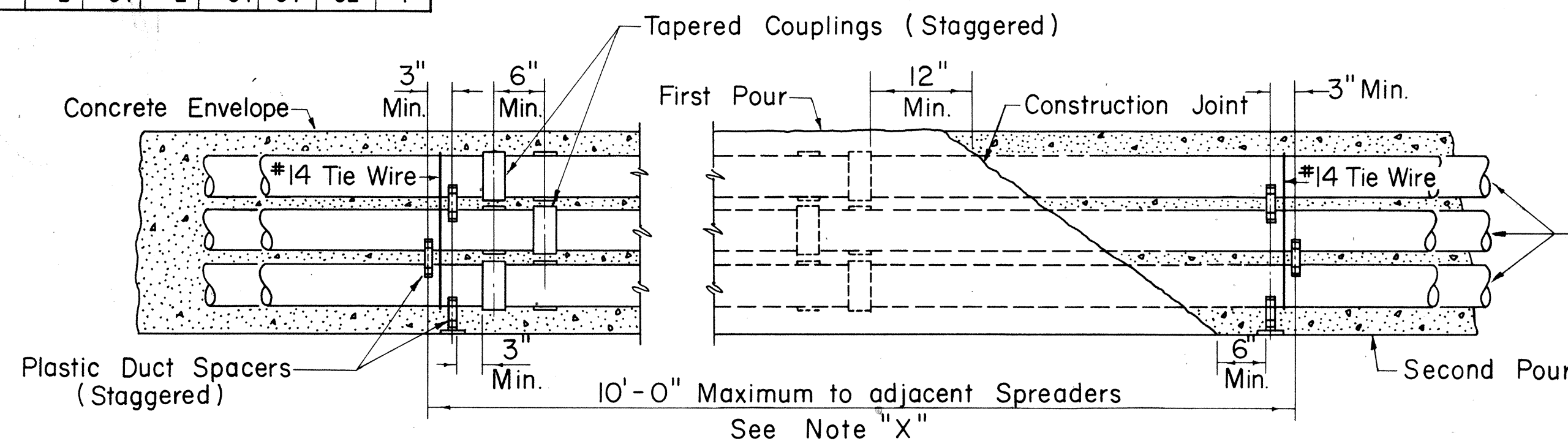
Not to Scale

SIZE	D1	D2	L
3"	3 25/32"	4 11/64"	2 1/4"
4"	4 25/64"	5 3/16"	2 1/2"
4 1/2"	4 57/64"	5 49/64"	2 1/2"
5"	5 29/64"	6 21/64"	2 3/4"



METHOD OF FORMING CURVES

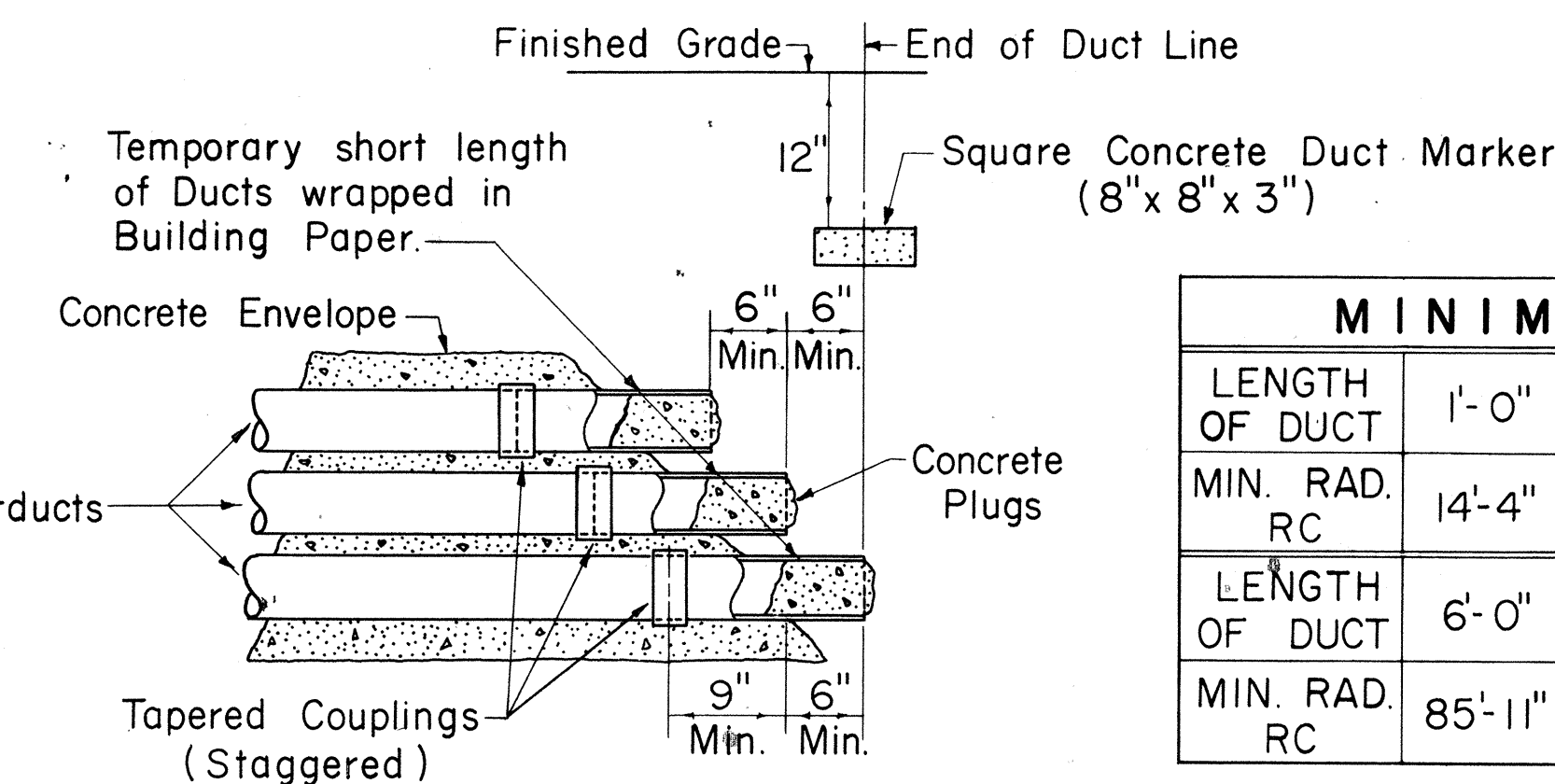
Not to Scale



TYPICAL DUCT ENVELOPE ELEVATION

(6 WAY DUCT LINE SHOWN)

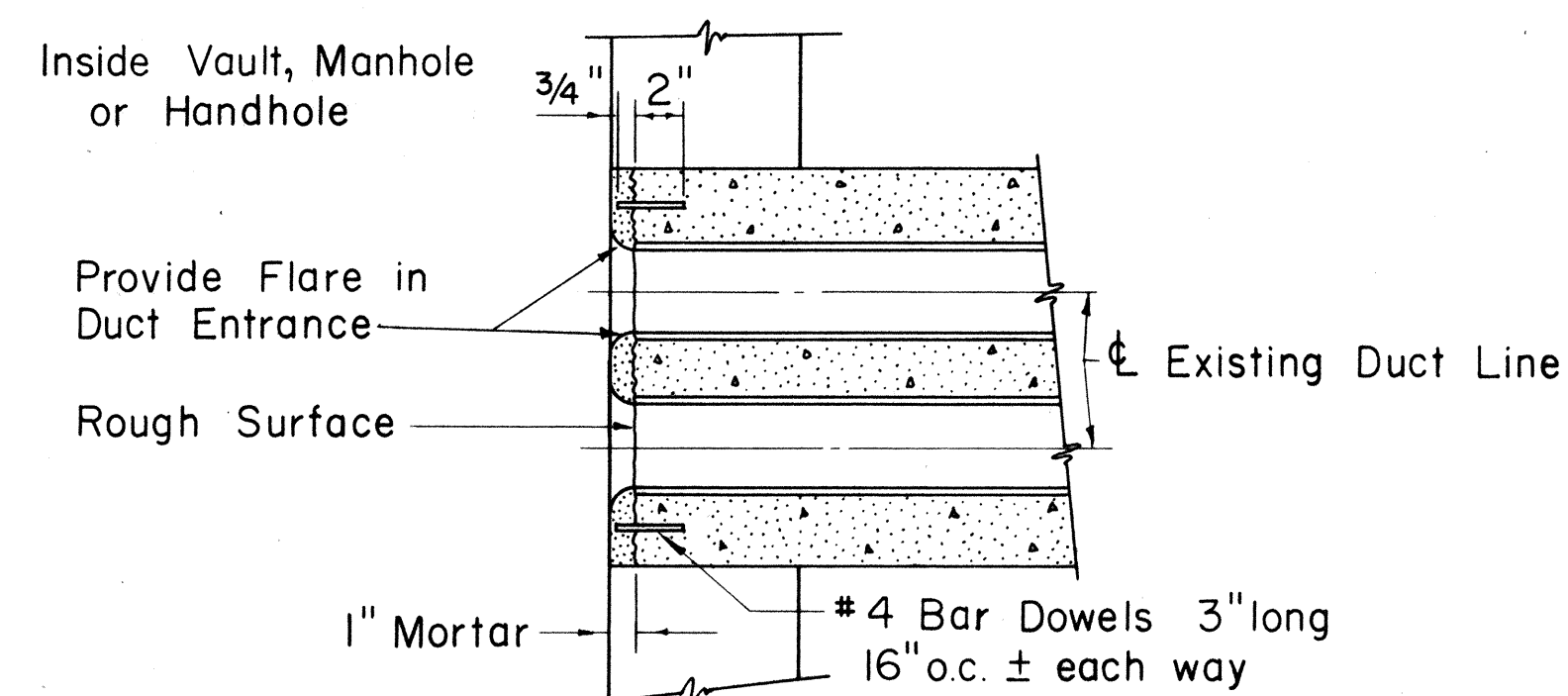
Not to Scale



TYPICAL STUB OUT DETAIL

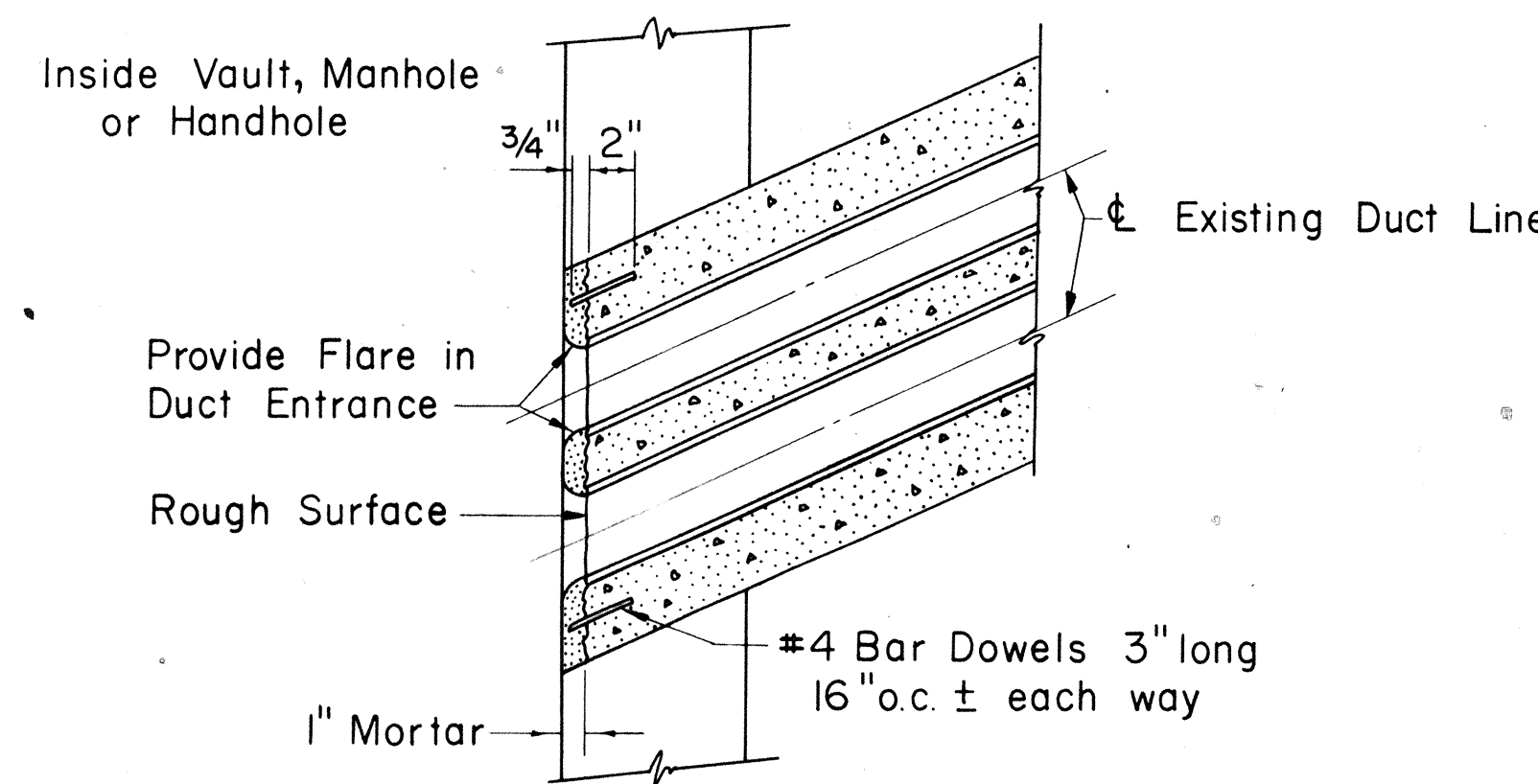
Not to Scale

	MINIMUM RADIUS TO FORM CURVES									
LENGTH OF DUCT	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"
MIN. RAD. RC	14'-4"	21'-6"	28'-8"	35'-10"	42'-11"	50'-1"	57'-3"	64'-5"	71'-7"	78'-9"
LENGTH OF DUCT	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	
MIN. RAD. RC	85'-11"	93'-1"	100'-3"	107'-5"	114'-7"	121'-8"	128'-10"	136'-0"	143'-2"	



DUCT LINE ENTRANCE AT EXISTING DUCT LINE

Scale: 1 1/2" = 1'-0"



DUCT LINE DIAGONAL ENTRANCE

Scale: 1 1/2" = 1'-0"

APPROVED:

AD Henderson
HAWAIIAN ELECTRIC CO., INC. DATE 10-18-67

HECo., Inc. Drawing Number
18585 SHEET No. 2 OF 2 SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

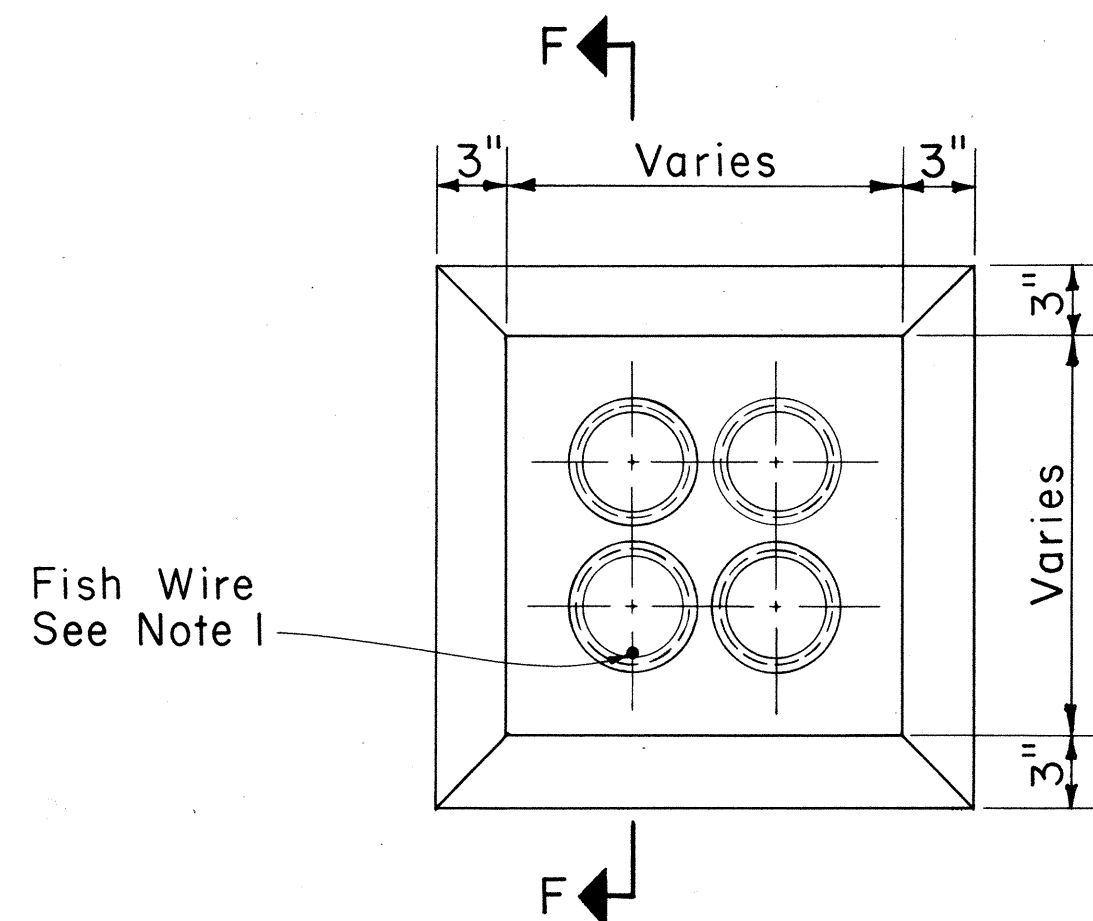
STANDARD DETAILS

CONSTRUCTION STANDARDS
TRANSITE KORDUCTS
UNDERGROUND DUCT LINES

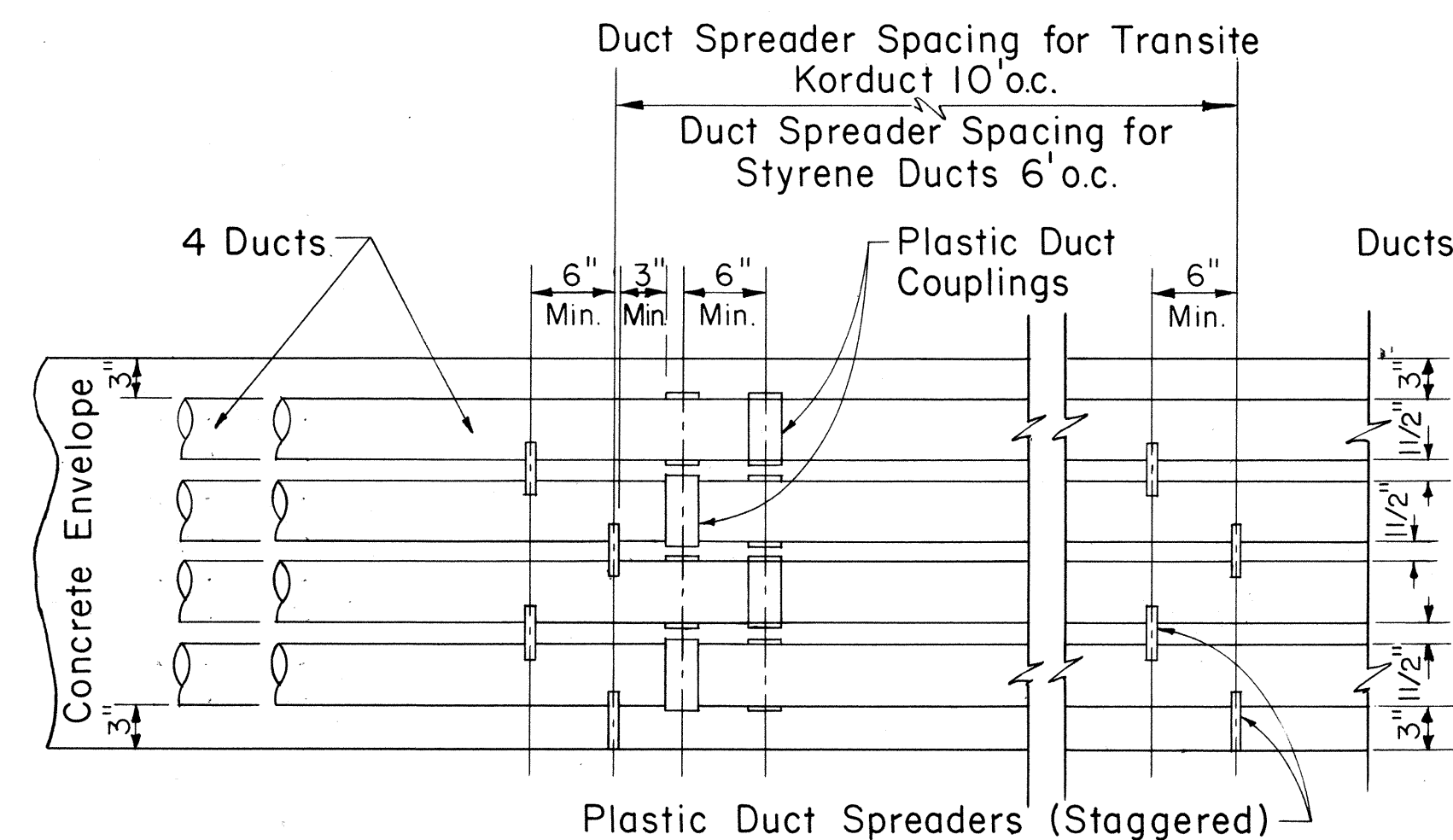
F.A.I. PROJ. No. I-H-1(36)8
Scales: As Noted Date: 10/18/67

SHEET NO. OF SHEETS

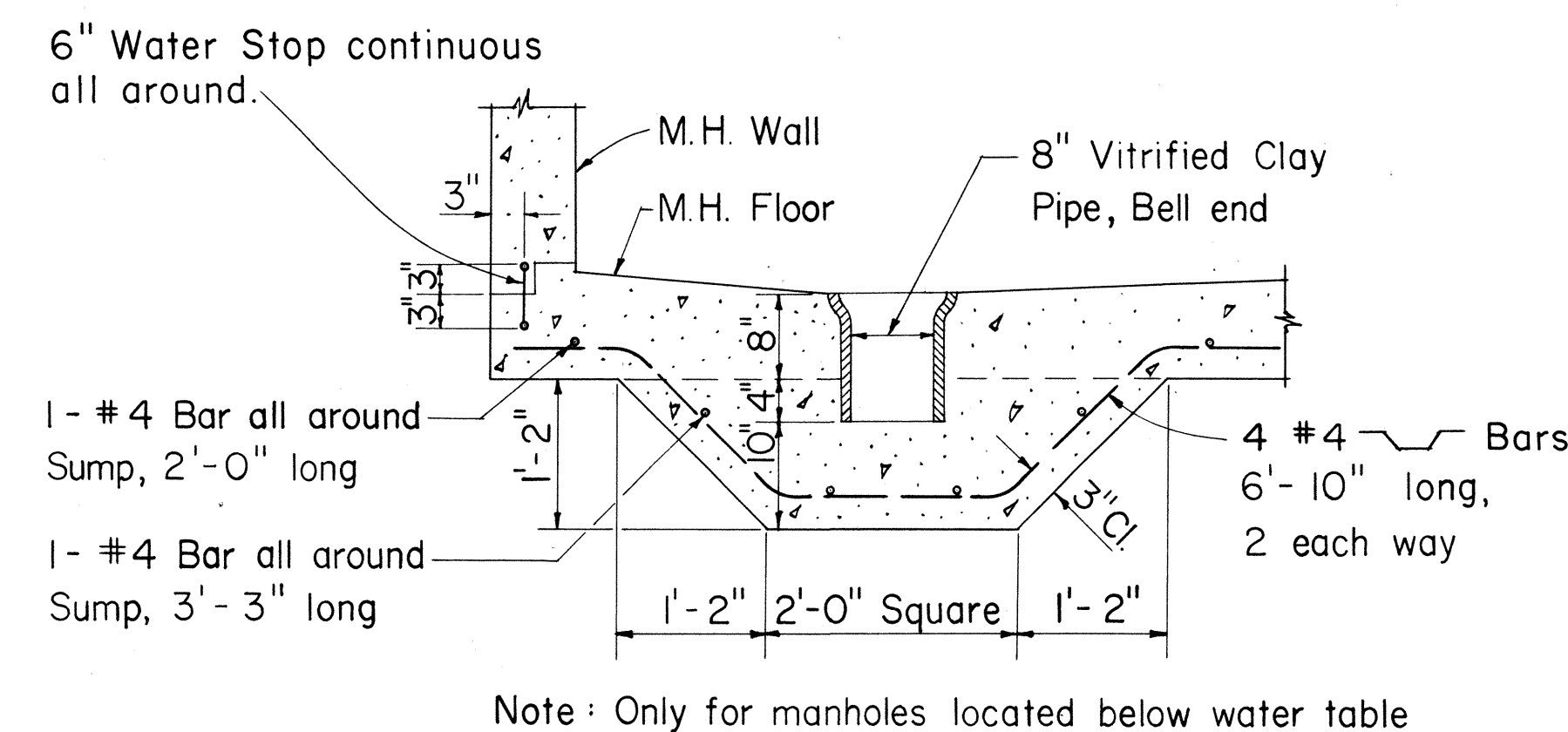
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-HI-1(36)8	1967	63	124



TYPICAL MANHOLE DUCT WINDOW
Scale: 1 1/2" = 1'-0"



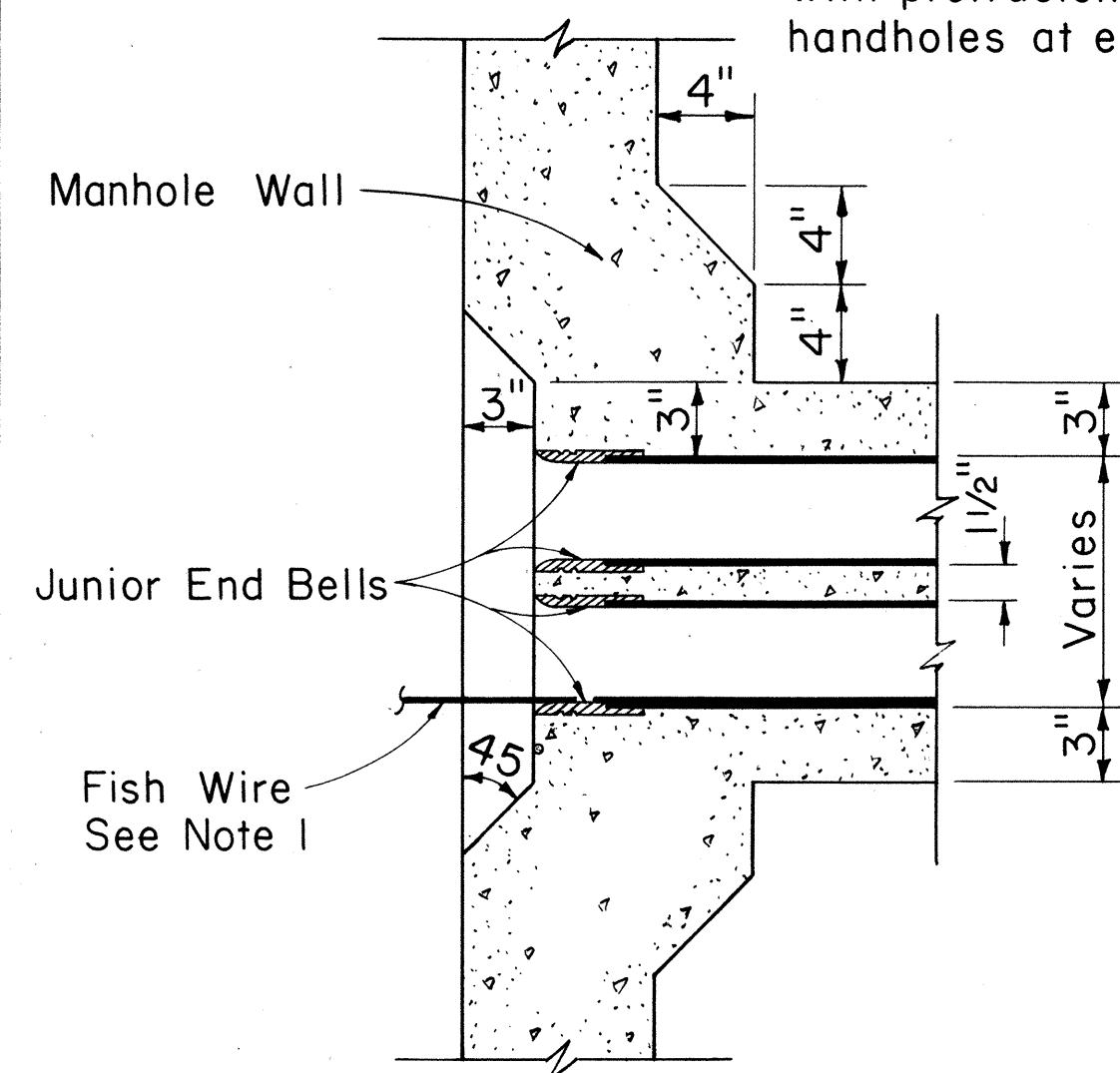
TYPICAL DUCT ENVELOPE ELEVATION
ARRANGEMENT OF COUPLING & PLASTIC SPACERS
Scale: 1" = 1'-0"



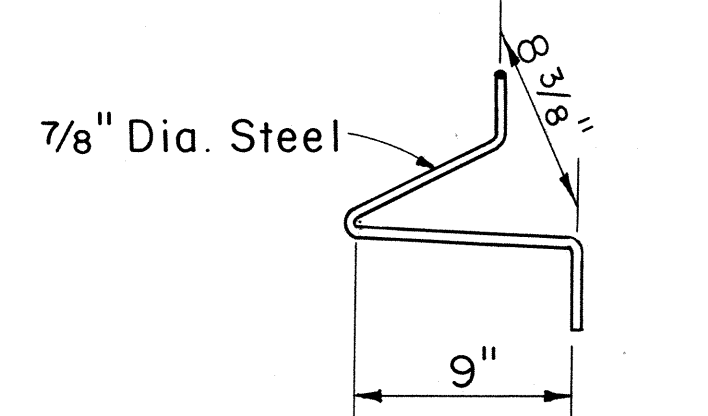
SECTION "E1-E1"
MANHOLE SUMP DETAIL
Scale: 3/4" = 1'-0"

NOTE

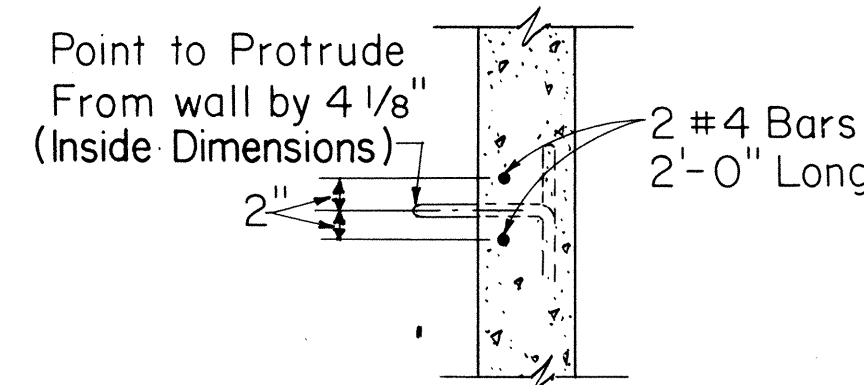
- The Contractor shall place #12 Fish Wire in designated duct throughout its entire length with protrusions of 2 feet in manholes & handholes at each end and 1 foot in pullboxes.



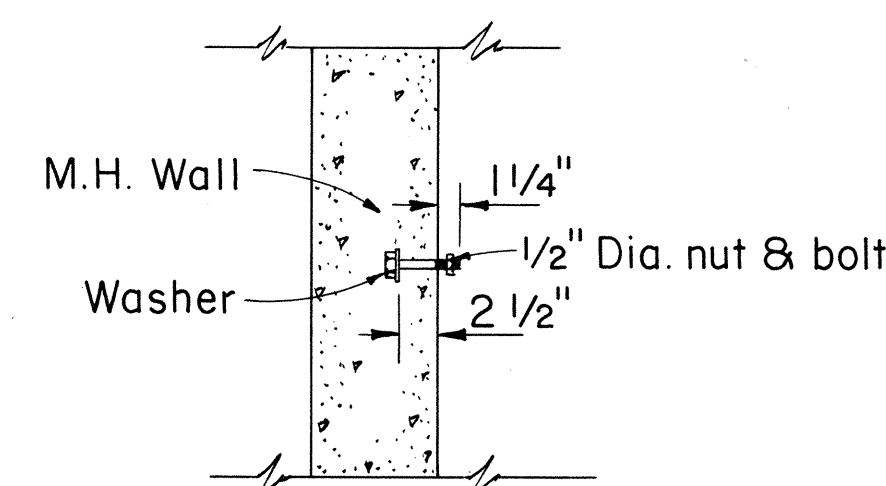
SECTION "F-F"
TYPICAL WINDOW DETAIL & JUNIOR END BELL
Scale: 1 1/2" = 1'-0"



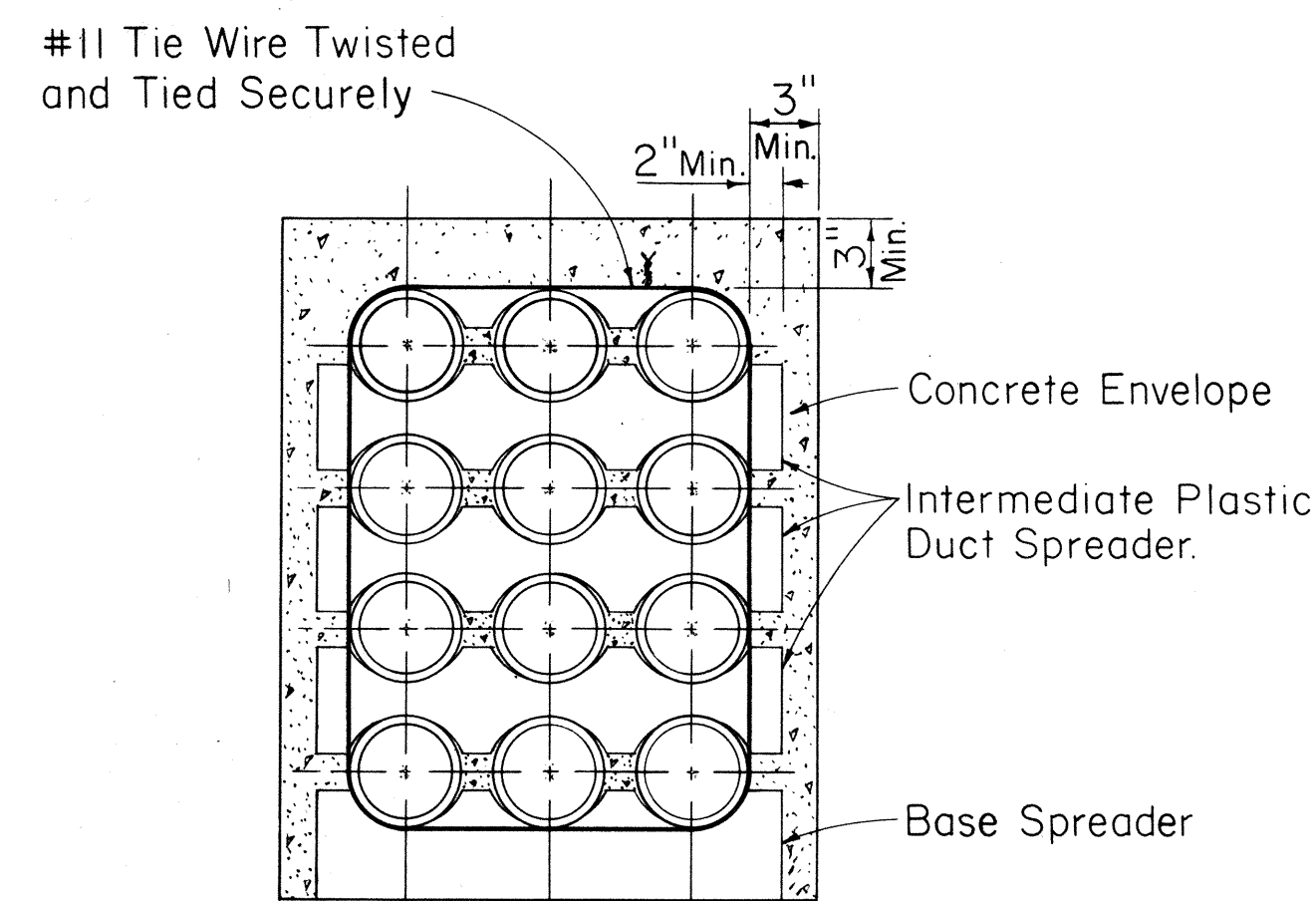
PULLING-IN IRON



SECTIONAL VIEW OF PULLING-IN IRON
Scale: 3/4" = 1'-0"



CABLE RACK STUD BOLT DETAIL
Scale: 1" = 1'-0"



SECTION SHOWING SPACERS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

APPROVED:
[Signature]
HAWAIIAN TELEPHONE CO. DATE 10-18-67

TYPE "A" M.H. SHT. NO. 2 OF 2 SHTS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

TYPE "A" MANHOLE
AND MISCELLANEOUS
TELEPHONE DETAILS

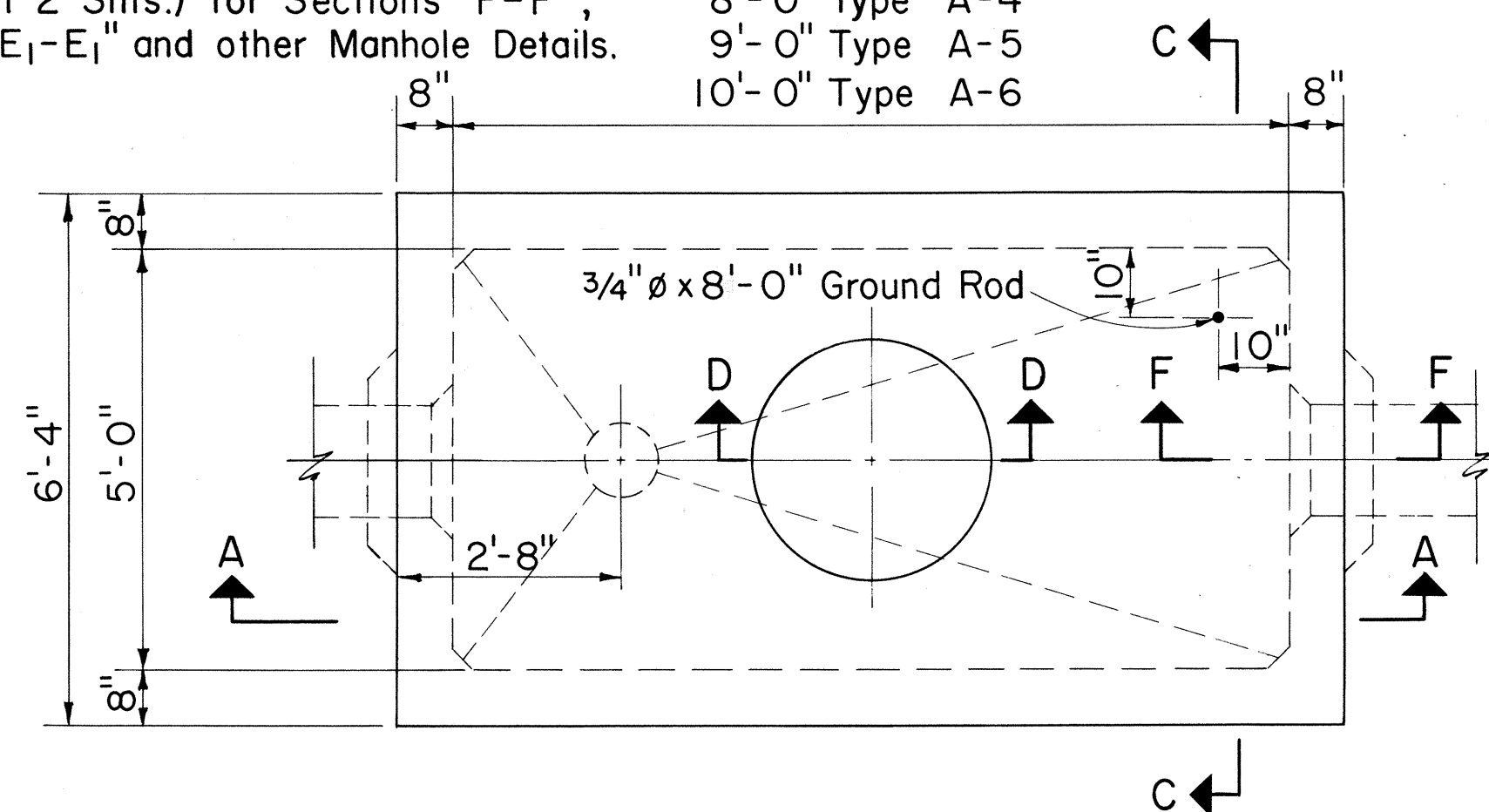
F.A.I. PROJ. NO. I-HI-1(36)8
Scale: As Noted Date: 10/18/67

SHEET No. OF SHEETS

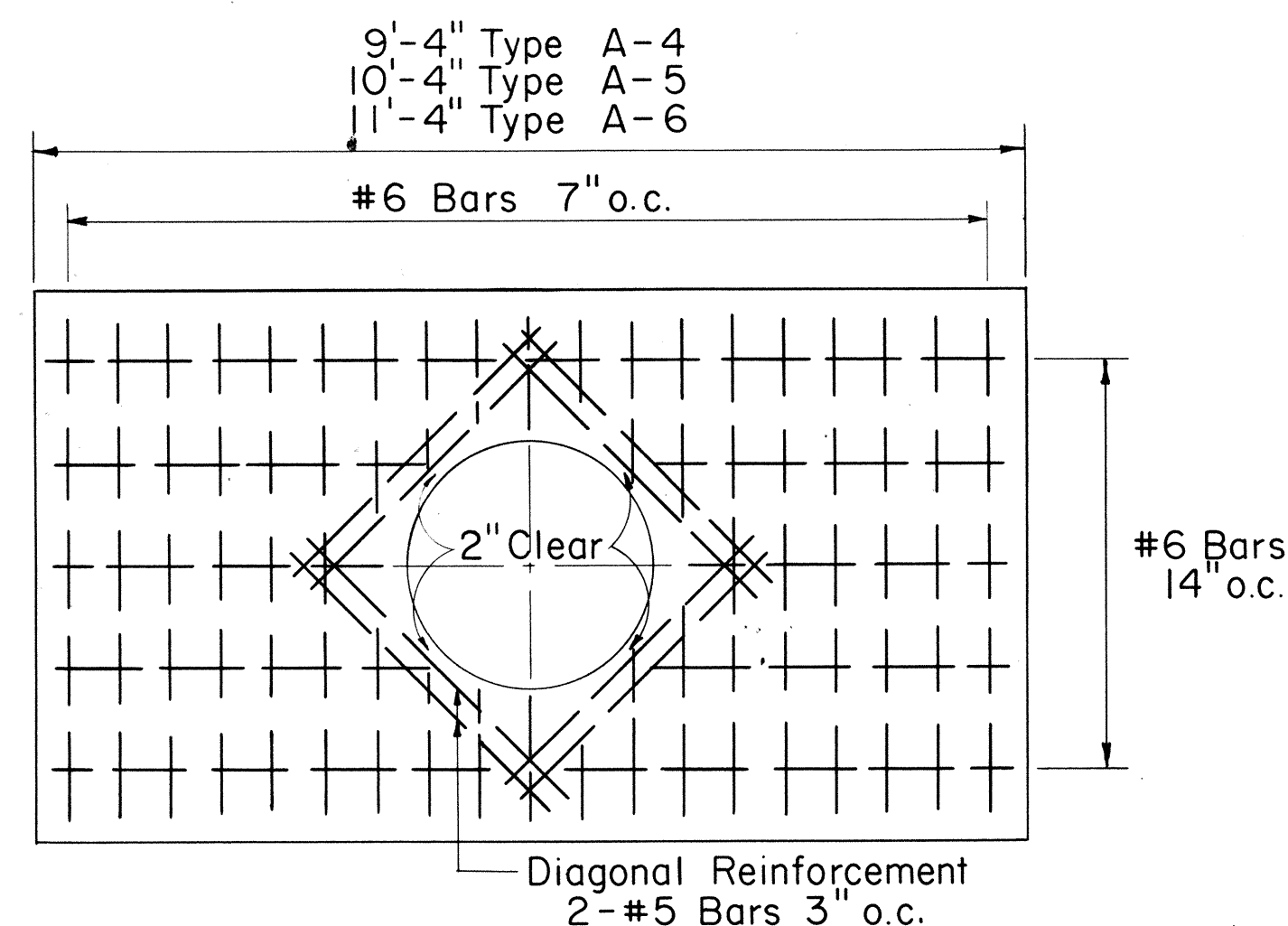
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	I-HI-1(36)8	1967	64	124

Note:
See (Type "A" M.H. Sht. No. 2 of 2 Shts.) for Sections "F-F", "E₁-E₁" and other Manhole Details.

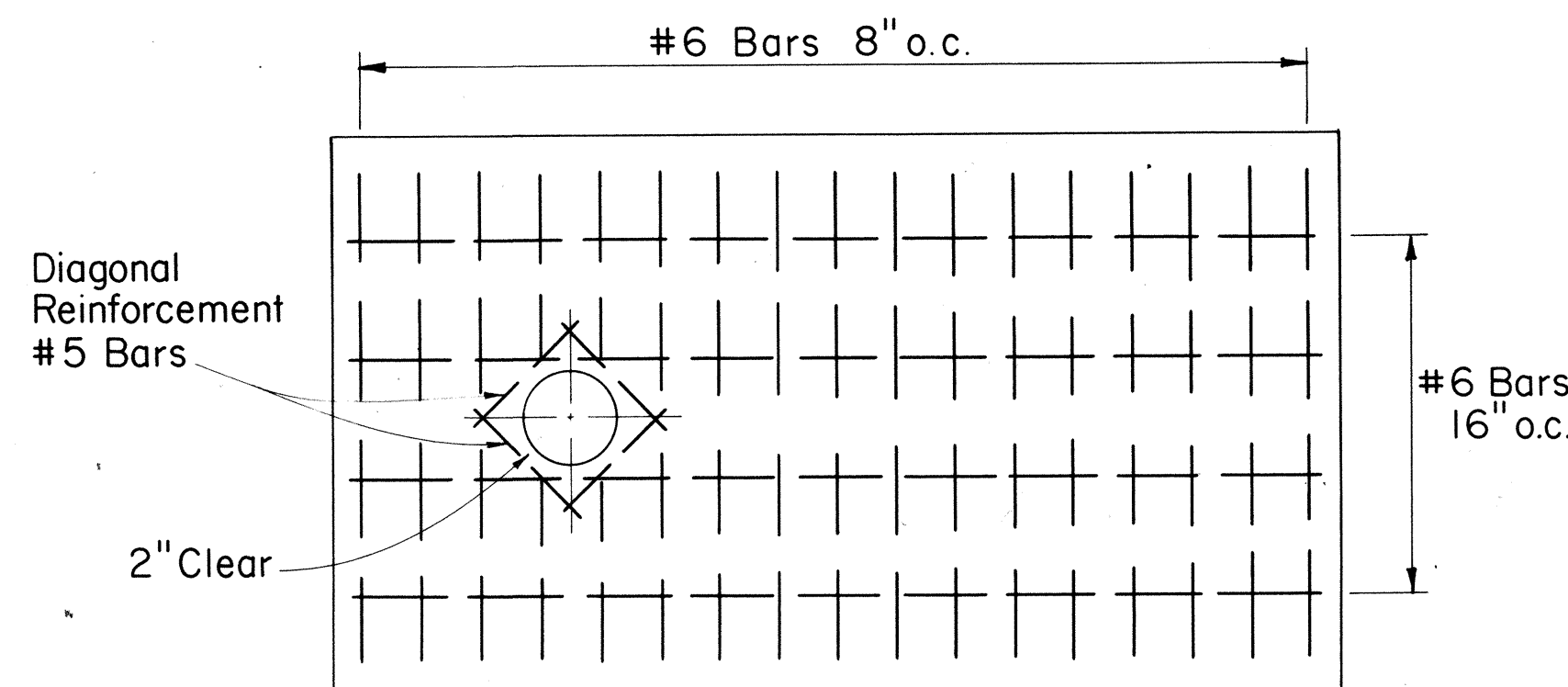
8'-0" Type A-4
9'-0" Type A-5
10'-0" Type A-6



PLAN M.H. TYPE "A"
FOR ROADWAY & SIDEWALK AREAS
Scale: 1/2" = 1'-0"



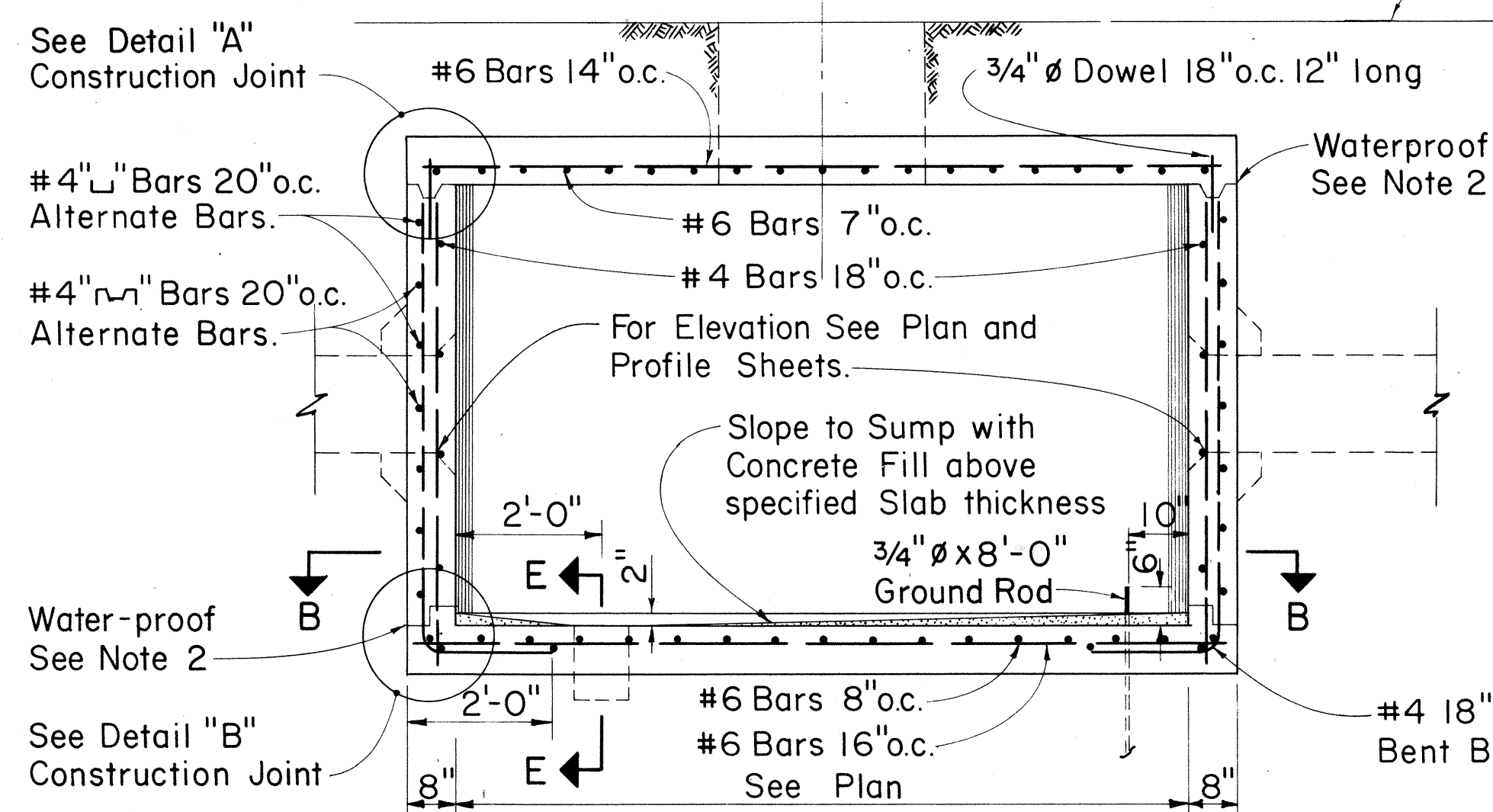
ROOF SLAB REINF. PLAN
Scale: 1/2" = 1'-0"



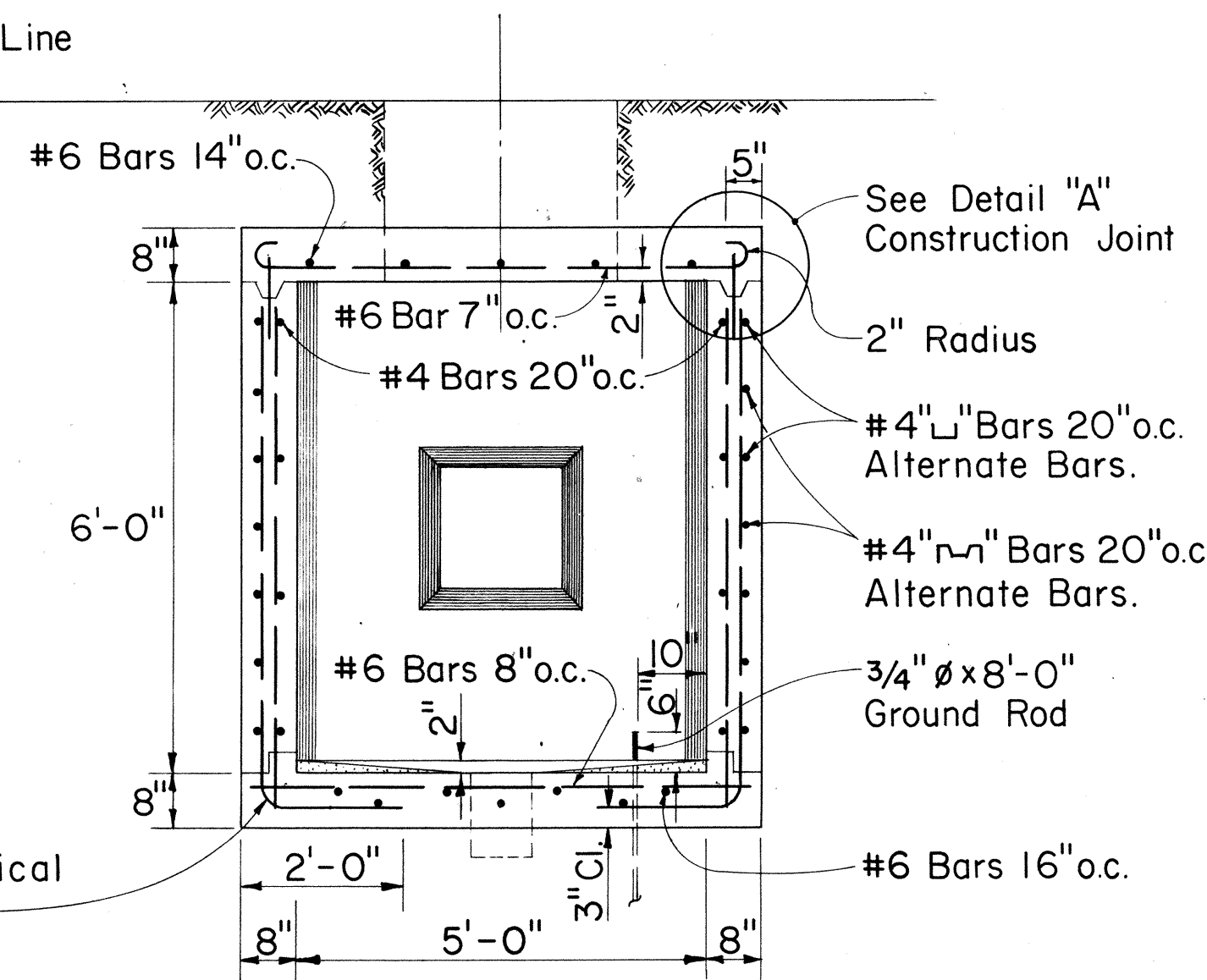
FLOOR SLAB REINF. PLAN
Scale: 1/2" = 1'-0"

GENERAL NOTES

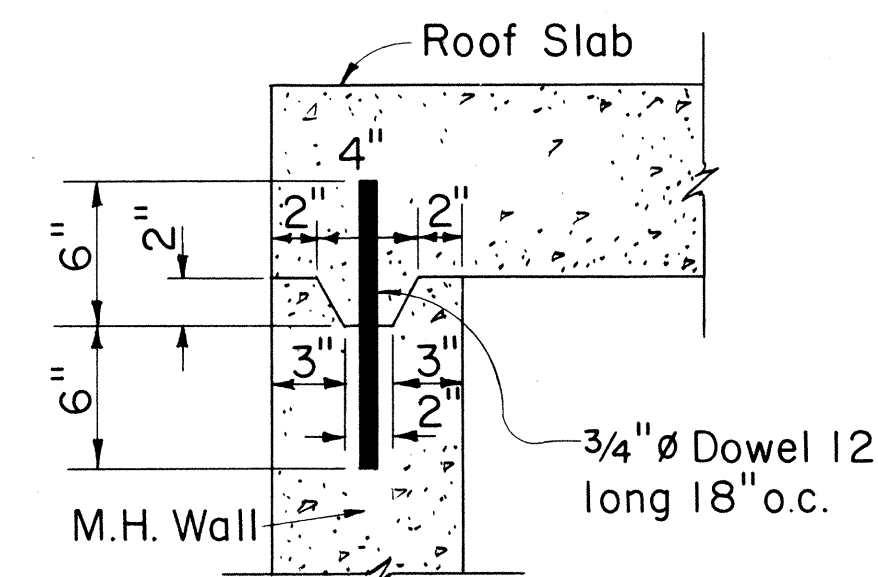
- DESIGN DATA
 $f'_s = 20,000$ psi; $f'_c = 3000$ psi; $f_c = 1200$ psi.
 $n = 10$; $w =$ Equivalent Fluid Pressure = 30 psf.
- All Construction Joints shall be waterproofed with 2 applications of Thoro Seal or equal.
- For Duct Window Location see Plan; For Elevations see Profile.
- Duct Window to suit. See Plan, Profile and Standard Detail Sheets for Location & Details.
- For Duct Window Details see Section "F-F" as shown on Type "A" M.H. Sht. No. 2 of 2 Shts.



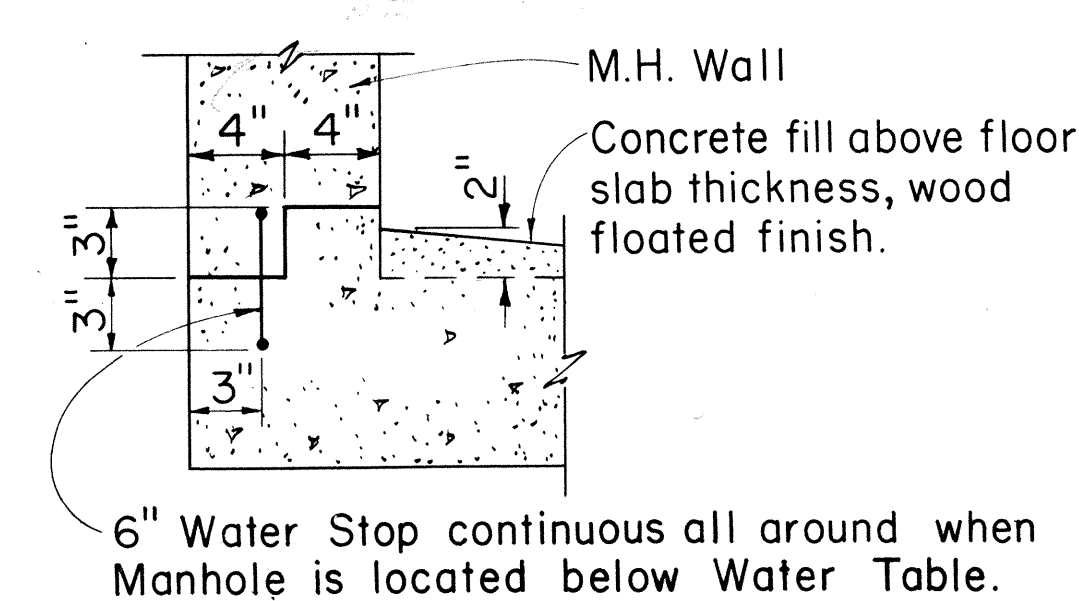
SECTION "A-A"
Scale: 1/2" = 1'-0"



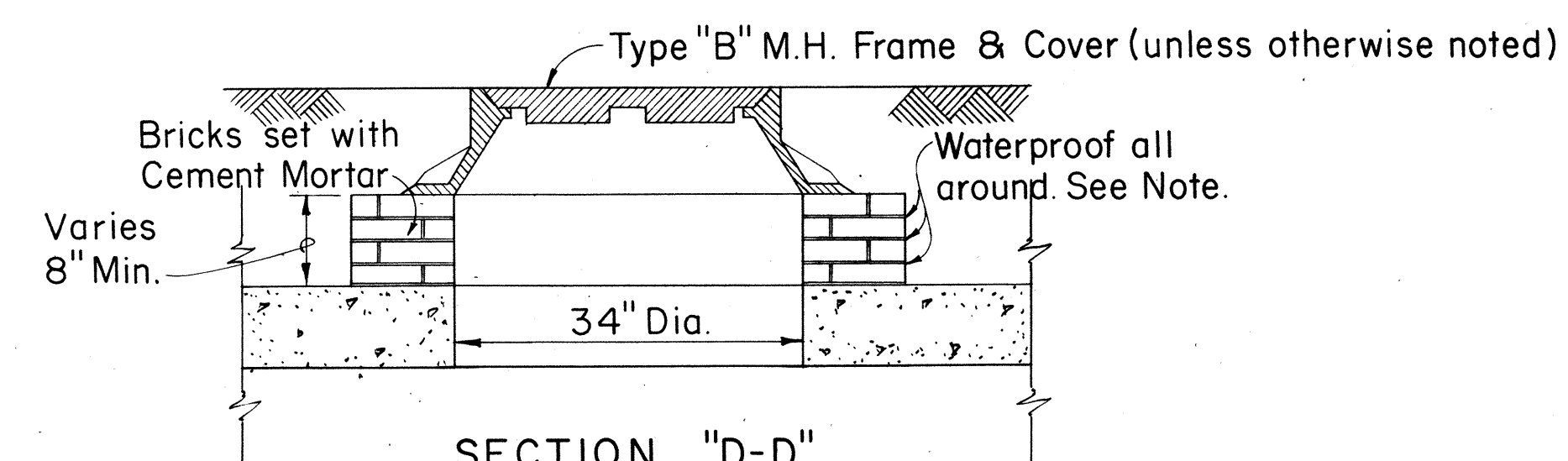
SECTION "C-C"
Scale: 1/2" = 1'-0"



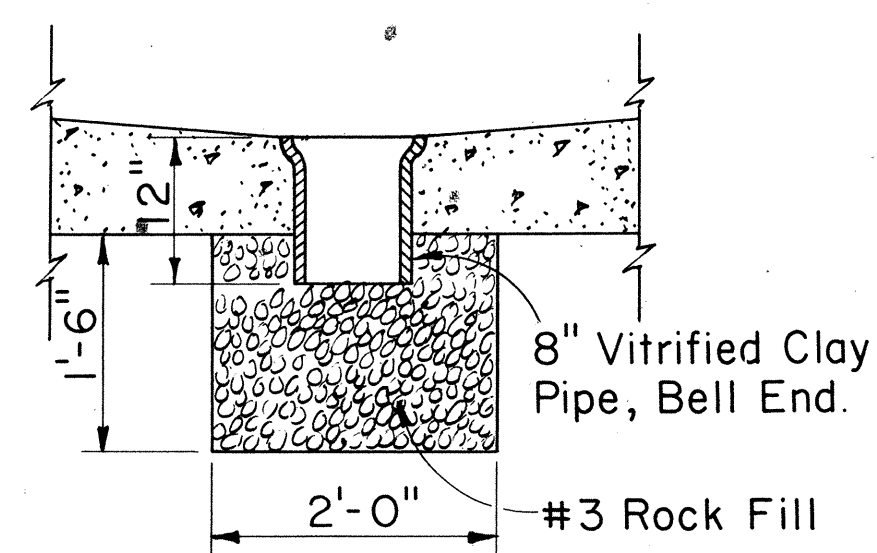
DETAIL "A"
TOP CONSTRUCTION JOINT
Scale: 1 1/2" = 1'-0"



DETAIL "B"
BOTTOM CONSTRUCTION JOINT
Scale: 1 1/2" = 1'-0"



SECTION "D-D"
M.H. COVER DETAIL
Scale: 3/4" = 1'-0"



SECTION "E-E"
M.H. SUMP DETAIL
Scale: 3/4" = 1'-0"

Note:
See (Type "A" M.H. Sht. No. 2 of 2 Shts.); for Section "E₁-E₁", M.H. SUMP DETAIL; when M.H. is located below Water Table.

APPROVED: *[Signature]* 10-18-67
HAWAIIAN TELEPHONE CO. DATE

TYPE "A" M.H. SHT. NO. 1 OF 2 SHTS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
TYPE "A" MANHOLE
FOR ROADWAY AND
SIDEWALK AREAS

F.A.I. PROJ. No. I-HI-1(36)8
Scale: As Noted Date: 10/18/67

SHEET No. OF SHEETS