

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(207)	1988	24	46

HIGHWAY LIGHTING SCHEDULE

LOCATION	DESCRIPTION OF WORK
Ramp WE Sta. 203+75 Rt. 205+15 Rt.	Breakaway Coupling & Skirt
Ramp G Sta. 20+65 Rt. 23+35 Rt. 25+86 Rt. 28+46 Rt. 33+66 Rt. 34+96 Rt. 36+26 Rt. 37+87 Rt.	
Ramp D Sta. 29+17 Rt. 30+47 Rt. 31+77 Rt. 33+07 Rt. 34+37 Rt. 35+67 Rt. 36+97 Rt. 38+27 Rt. 39+57 Rt.	
Ramp B Sta. 11+75 Rt. 13+25 Rt. 14+75 Rt. 16+25 Rt. 17+75 Rt. 19+25 Rt. 20+75 Rt. 22+25 Rt.	
Ramp E Sta. 14+30 Rt. 16+25 Rt. 17+75 Rt. 19+25 Rt. 20+75 Rt. 22+25 Rt. 23+75 Rt. 25+25 Rt. 26+75 Rt. 28+25 Rt. 29+75 Rt.	

HIGHWAY LIGHTING NOTES

1. All existing highway lighting standards as shown on the Highway Lighting Schedule shall have breakaway support couplings and skirt covers installed.
2. All existing Highway Lights shall be operable during the Contractor's non-working hours.
3. The Contractor shall assume that existing utilities may exist, although not shown. The Contractor shall verify the locations of existing utilities with the respective owners prior to start of construction. Any damage to existing utilities shall be repaired at the Contractor's expense.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

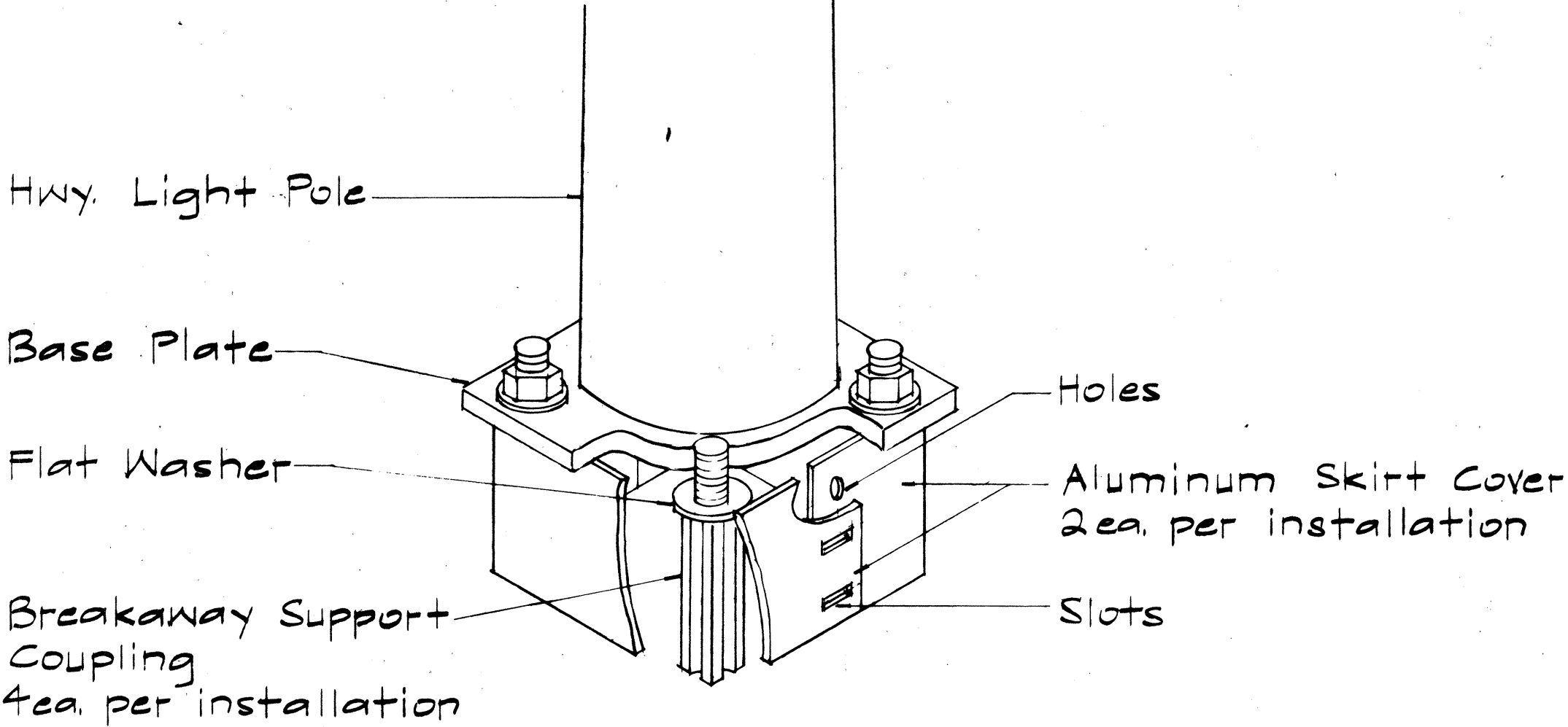
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING NOTES
AND SCHEDULE

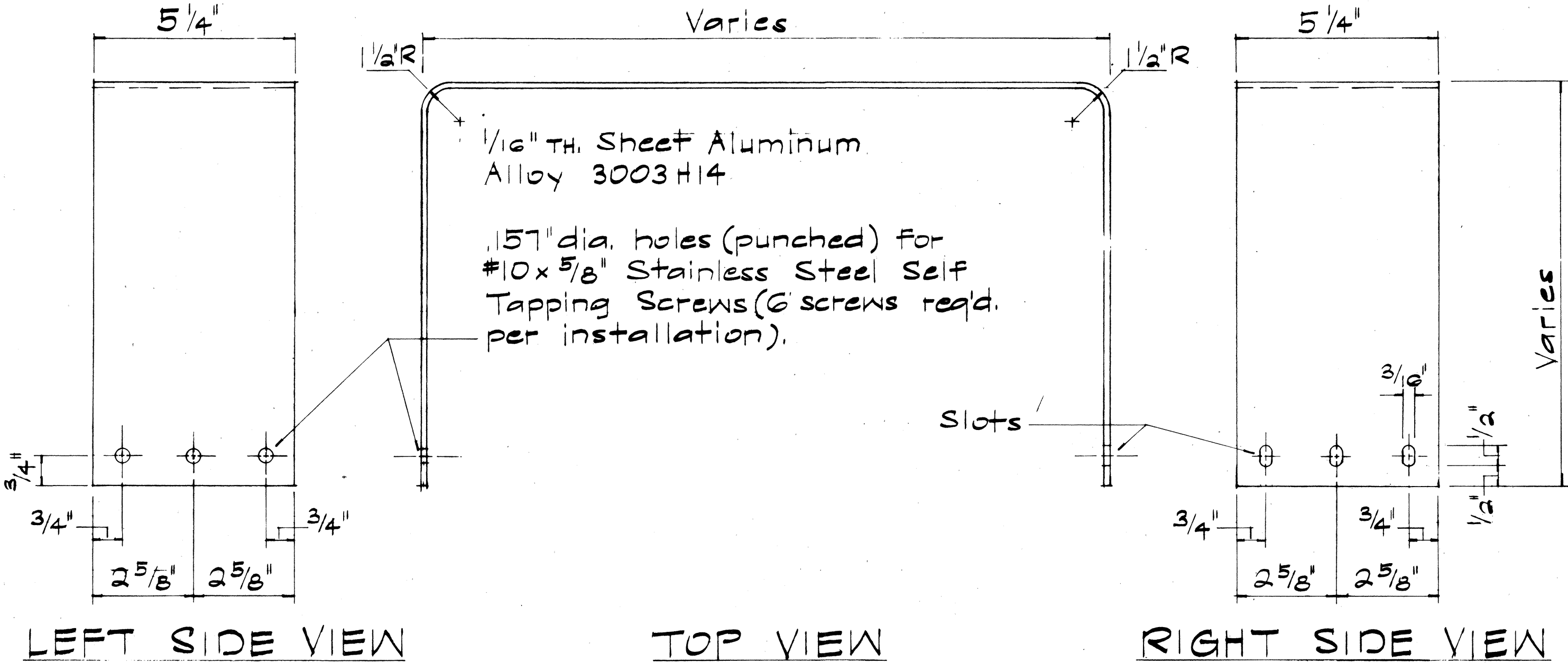
INTERSTATE ROUTE HI RESURFACING
KAIMAKANI ST. TO AIRPORT VIADUCT
F.A.I. PROJ. NO. IR-HI-1(207)

Date: May, 1988

SHEET No. 24 OF 3 SHEETS



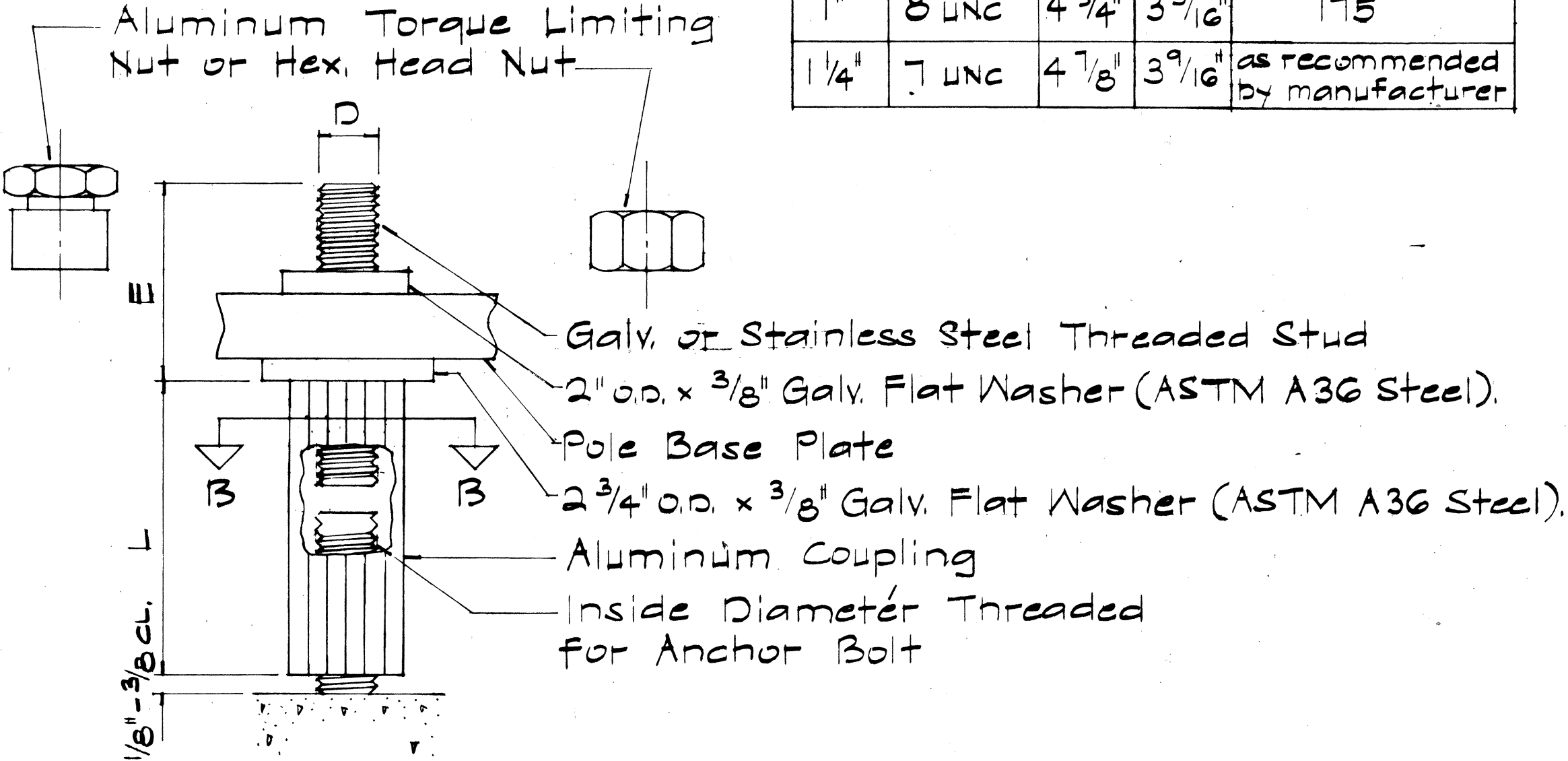
SKIRT COVER DETAIL



SKIRT COVER FOR BREAKAWAY SUPPORT COUPLING

Not to Scale

SECTION "B-B"



DETAIL "A"
Not to Scale

BREAKAWAY SUPPORT COUPLING

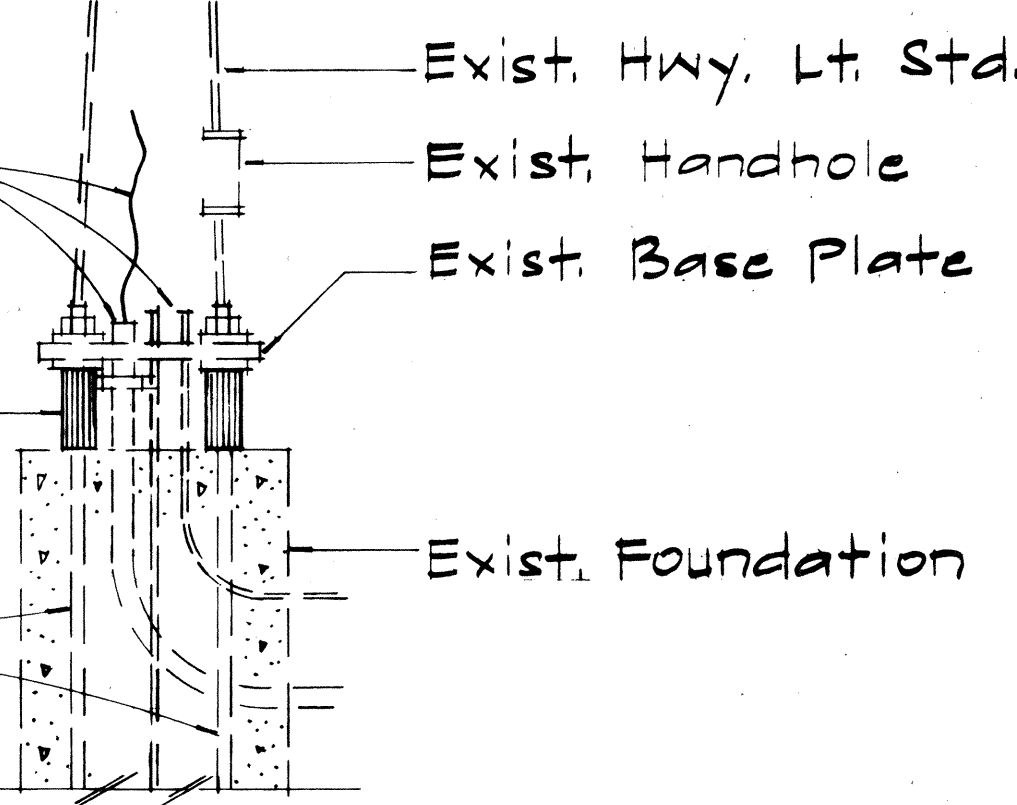
Scale: As Shown

DIMENSION SCHEDULE				
D	THREAD	L	E	NUT TORQUE ± 25 FT. LBS.
1"	8 UNC	4 3/4"	3 5/16"	175
1/4"	7 UNC	4 7/8"	3 9/16"	as recommended by manufacturer

Extend Cable & Conduit as req'd (Extensions to match existing)

Breakaway Support Coupling (See Detail "A")

Exist. Anchor Bolts



MOUNTING DETAIL

Scale: 3/4" = 1'-0"

GENERAL NOTES:

- Contractor shall verify size of exist. anchor bolts & base plates prior to ordering couplings & skirt covers.
- Breakaway support coupling shall conform to the applicable requirements of AASHTO standards & shall be fabricated from either die cast aluminum alloy 380 according to ASTM B35, or extruded from alloy 2024-T8511 according to ASTM B221.
- Hex. nut shall meet the requirements of ASTM A563 grade A, and ANSI B18.2.2.
- Torque nut shall be fabricated from aluminum alloy and grooved to separate at the specified torque.
- Threaded stud shall meet the requirements of ASTM A 675 grade 90 or AISI stainless steel.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
TYPICAL DETAILS
BREAKAWAY SUPPORT
COUPLING & SKIRT COVER
F.A.I. PROJ. NO. IR-HI-1(207)
Scale: As Shown
SHEET NO. 22 OF 3 SHEETS

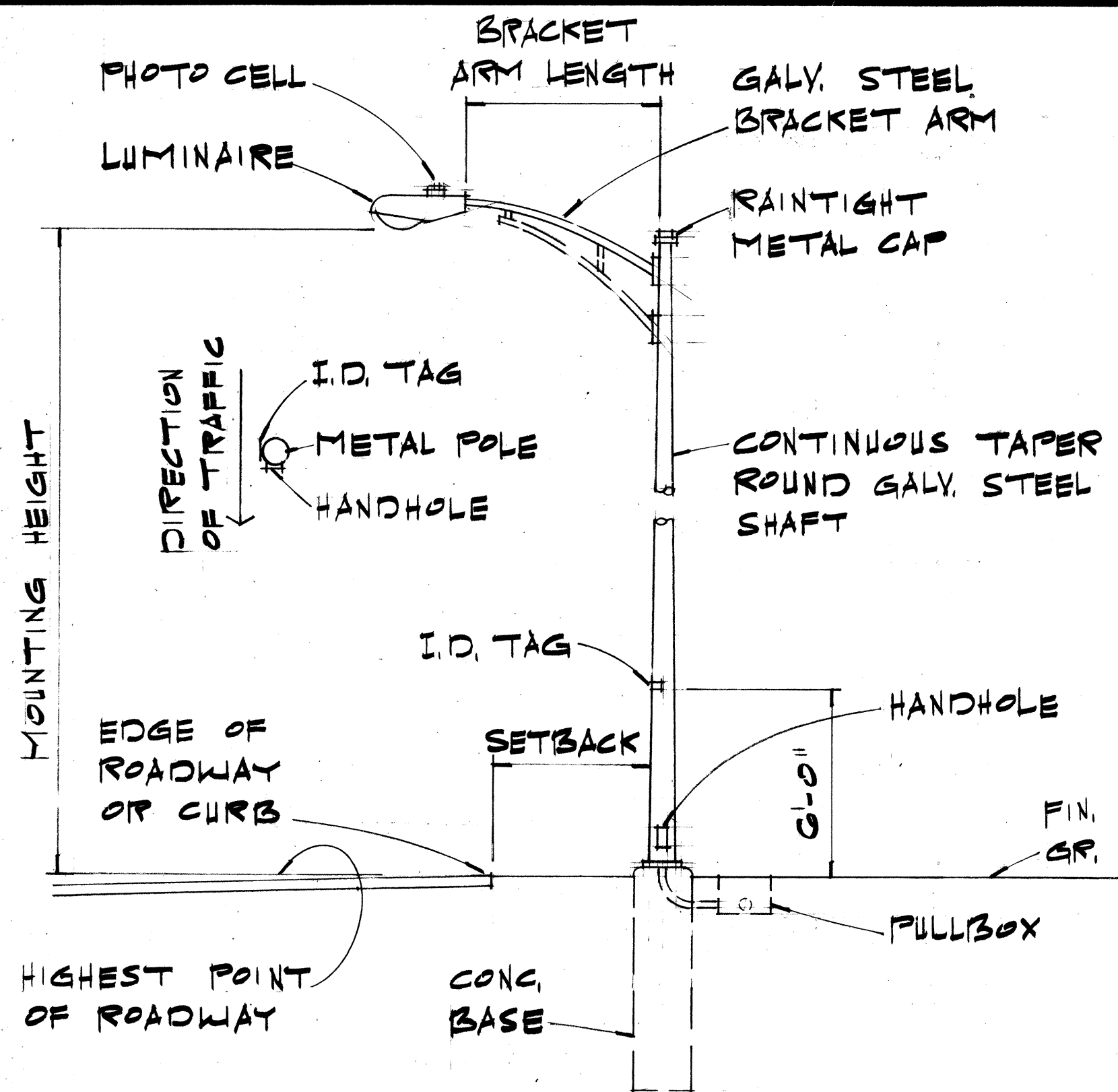
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DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(207)	1988	26	46

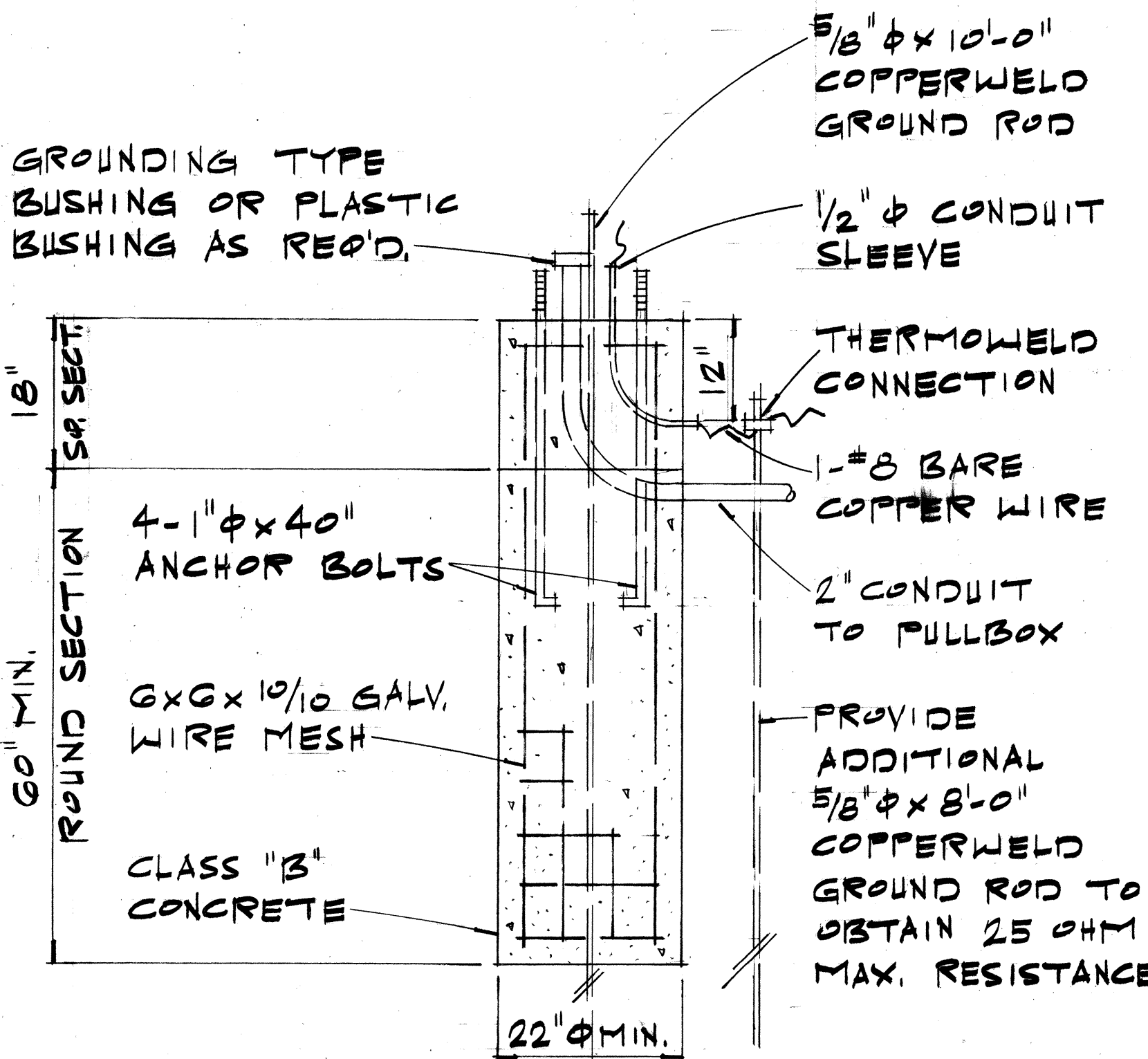
GENERAL NOTES

- ALL LUMINAIRES SHALL BE HIGH PRESSURE SODIUM TYPE W/ WATTAGE & IES TYPE LIGHT DISTRIBUTION AS SHOWN ON PLANS.
- ALL SECONDARY CIRCUIT EXTENSIONS TO SERVICE SHALL BE PROVIDED BY CONTRACTOR. ALL CONNECTIONS MADE BY SUBJECT TO CHARGE SHALL BE PAID BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & INFORMING OF STREET LIGHT LOCATIONS ON PROJECT SITE PRIOR TO INSTALLATION OF SECONDARY CIRCUIT CONNECTION.
- THE CONTRACTOR SHALL NOTIFY & COORDINATE WORK W/ THE STATE ELECTRICAL MAINTENANCE SECTION, ADDRESS: PHONE: 12 HOURS IN ADVANCE OF COMMENCING INSTALLATION OF STREET LIGHT SYSTEM.
- THE CONTRACTOR SHALL LOCATE & VERIFY EXISTING STREET LIGHT SECONDARY VOLTAGE BEFORE ORDERING LIGHTING EQUIPMENT.



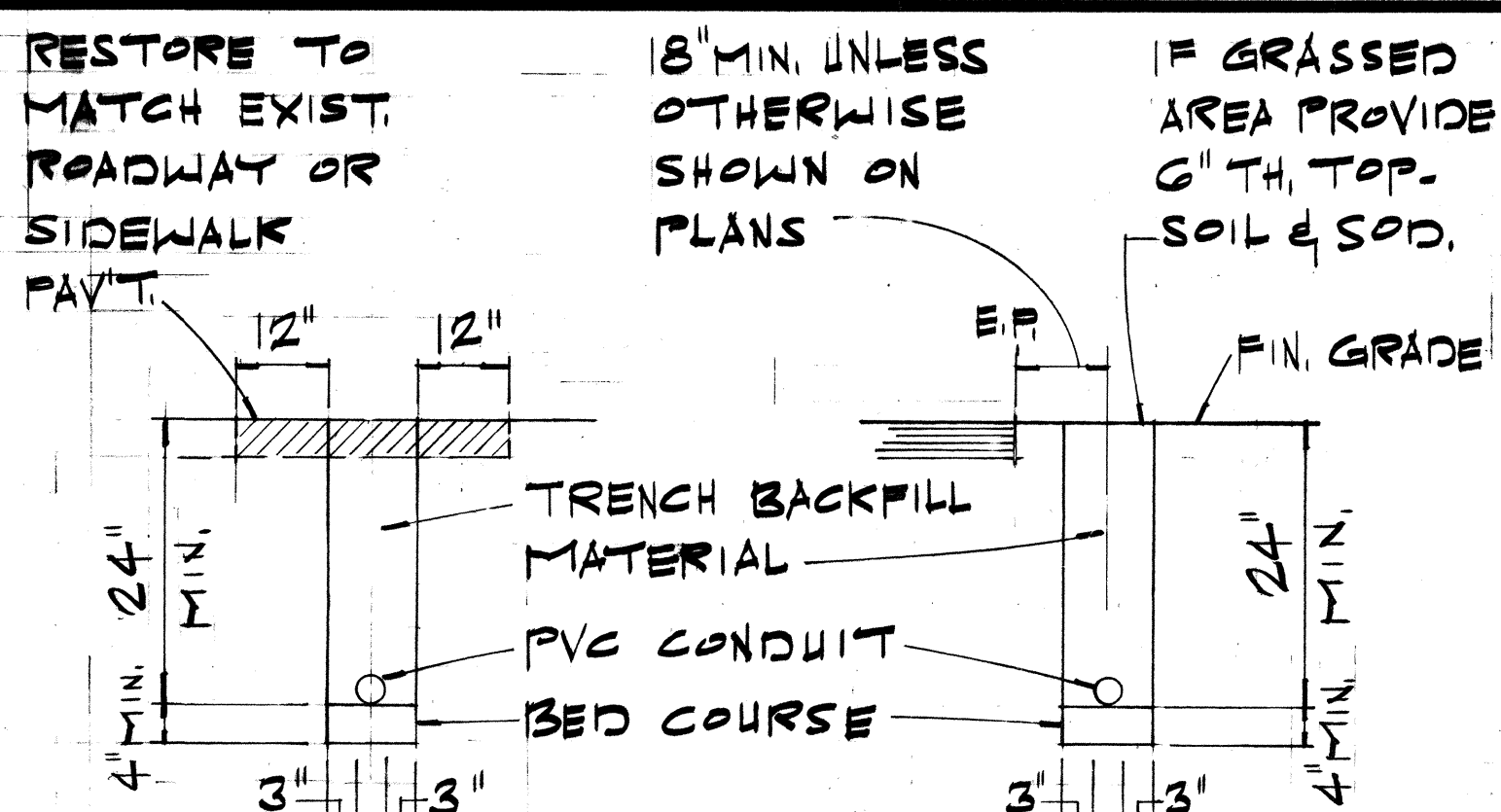
STREET LIGHT DETAIL

SCALE: 1/4" = 1'-0"



CONCRETE BASE DETAIL

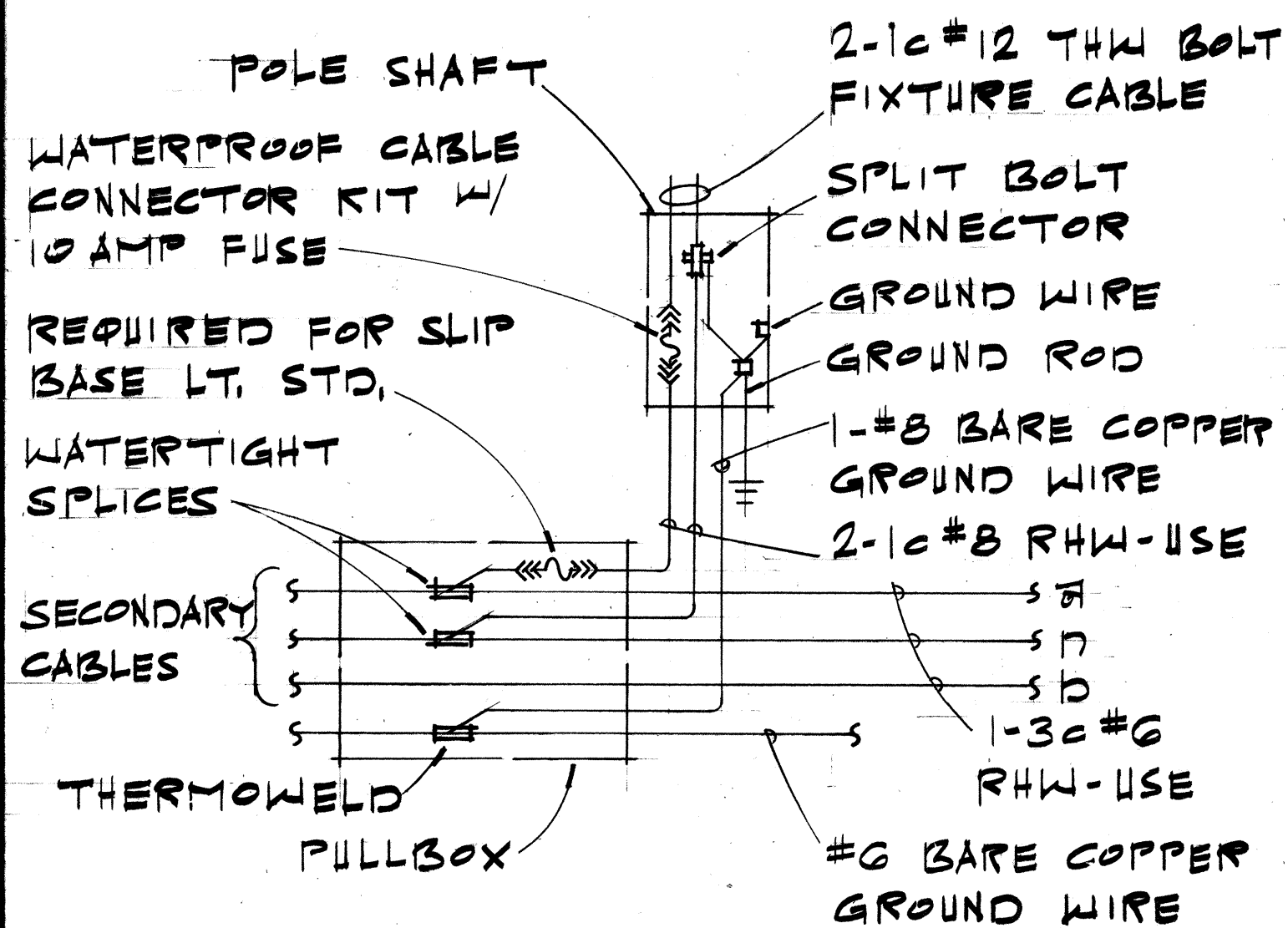
SCALE: 3/4" = 1'-0"



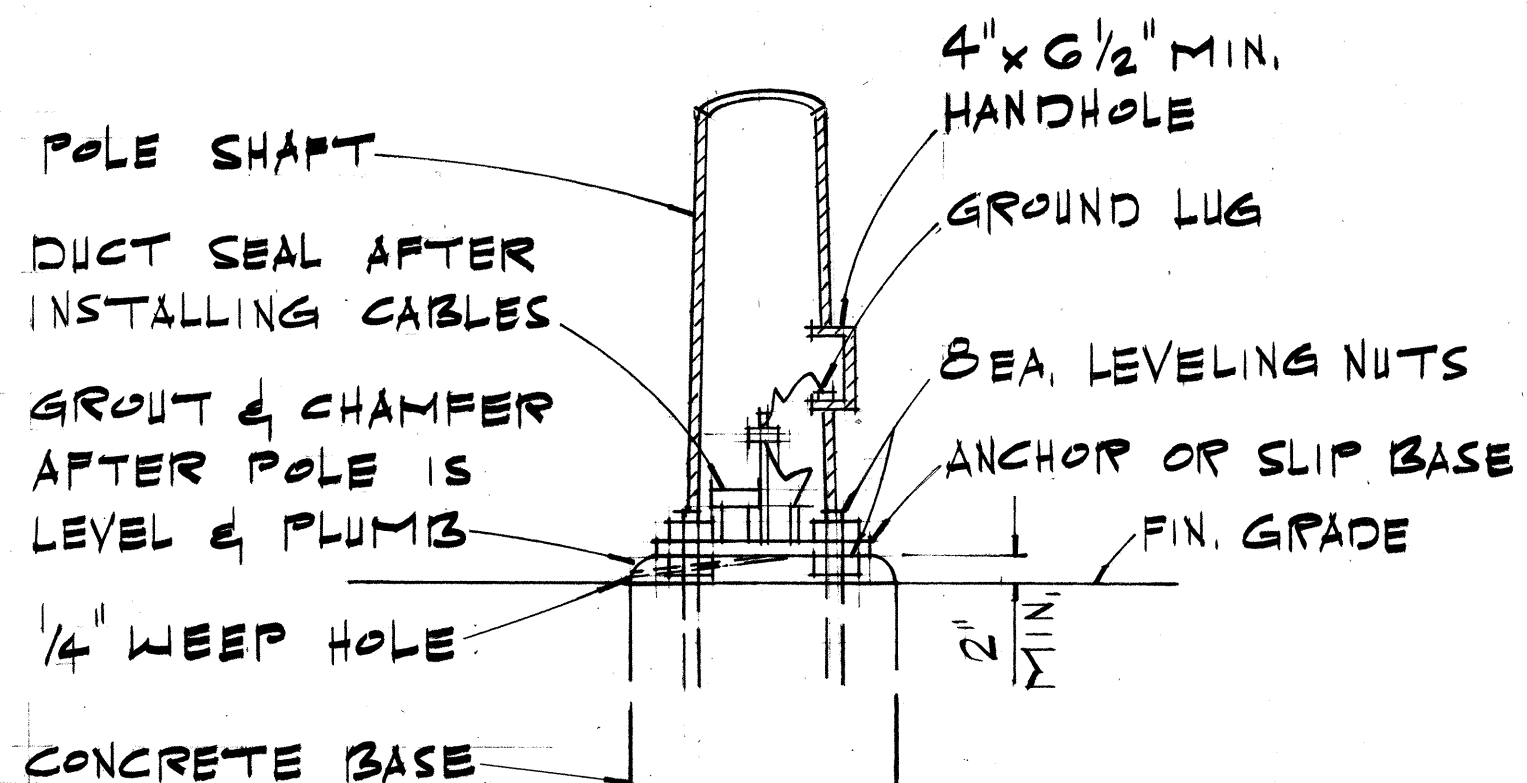
ROAD CROSSING EDGE OF SHOULDER OR CURB CROSSING

TYPICAL DUCT SECTION DETAIL

NOTE: SCALE: 1/2" = 1'-0"
FOR MULTIPLE CONDUIT LAYOUTS PROVIDE 3" CL. SPACING BETWEEN CONDUITS.

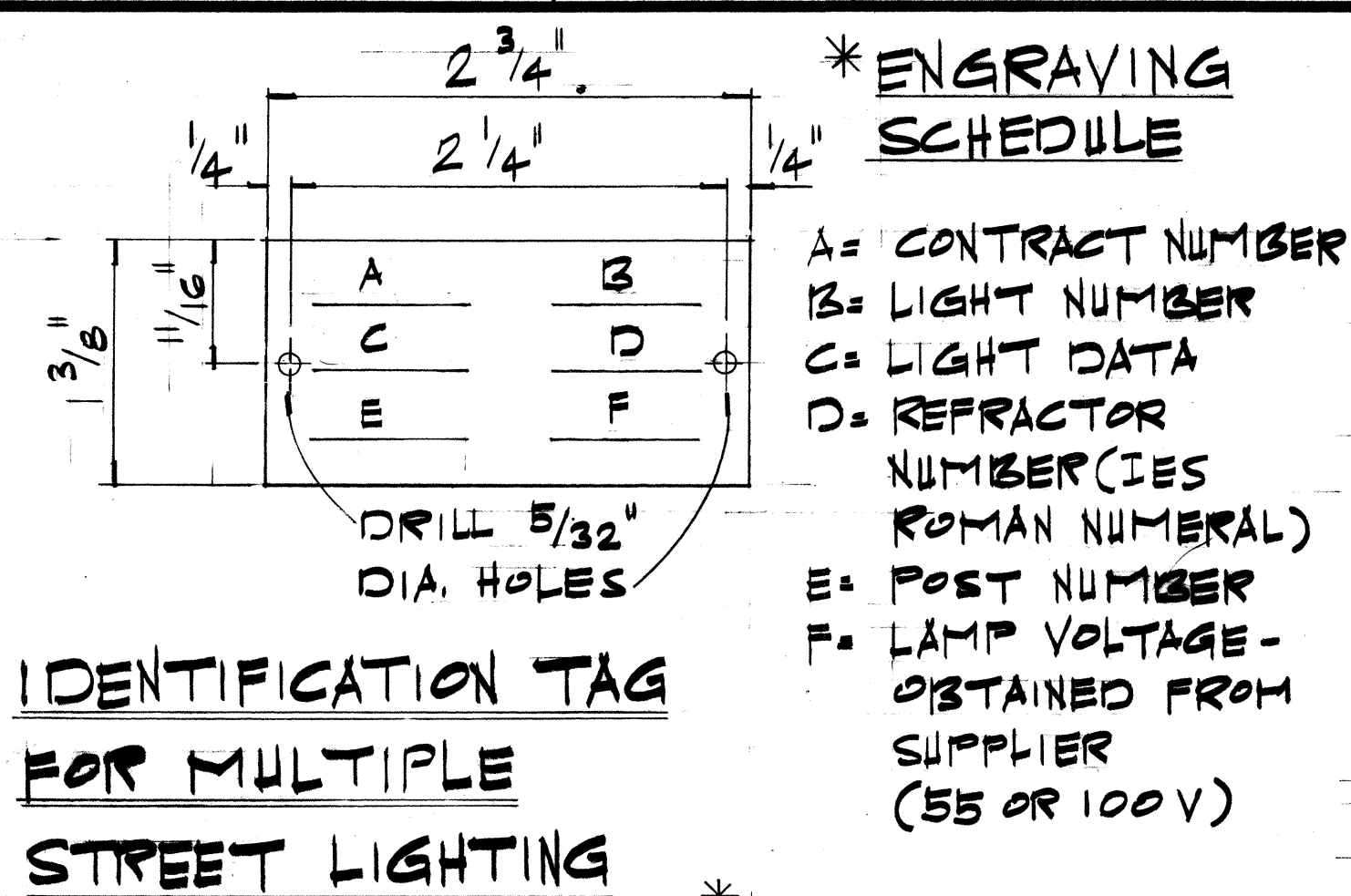


WIRING CONNECTION DIAGRAM



POLE MOUNTING DETAIL

SCALE: 3/4" = 1'-0"



IDENTIFICATION TAG FOR MULTIPLE STREET LIGHTING

NOT TO SCALE

NOTE:

- MAKE FROM 3-PLY LAMINATED PLASTIC (BLACK-WHITE-BLACK) W/ 1/8" HIGH COMMERCIAL GOTHIC LETTERS ENGRAVED.
- ATTACH TO POLE W/ #7 CADMIUM PLATED SCREWS.

* AS SHOWN ON PLANS

* ENGRAVING SCHEDULE

- A= CONTRACT NUMBER
- B= LIGHT NUMBER
- C= LIGHT DATA
- D= REFRACTOR NUMBER (IES ROMAN NUMERAL)
- E= POST NUMBER
- F= LAMP VOLTAGE - OBTAINED FROM SUPPLIER (55 OR 100 V)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
TYPICAL DETAILS
HIGHWAY LIGHTING LUMINAIRE
MOUNTED ON METAL POLE

F.A.I. PROJ. NO. IR-HI-1(207)

Scale: As Shown Date: May, 1988
SHEET NO. E3 OF 3 SHEETS