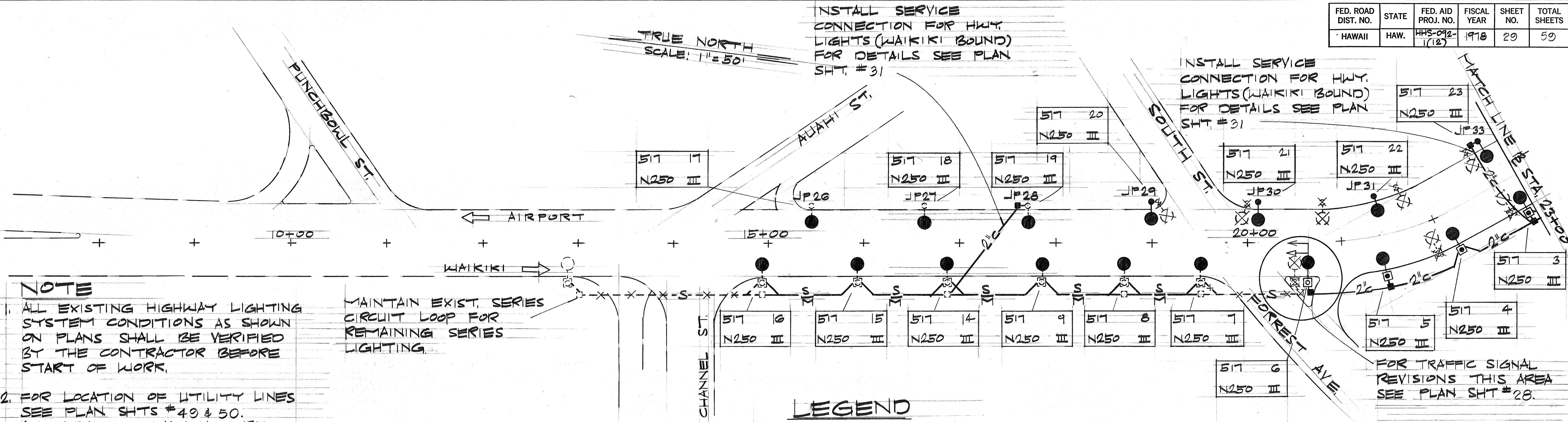


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HHS-092-1(12)	1978	29	59

INSTALL SERVICE CONNECTION FOR HWY. LIGHTS (WAIKIKI BOUND) FOR DETAILS SEE PLAN SHT. #31

INSTALL SERVICE CONNECTION FOR HWY. LIGHTS (WAIKIKI BOUND) FOR DETAILS SEE PLAN SHT. #31



NOTE

ALL EXISTING HIGHWAY LIGHTING SYSTEM CONDITIONS AS SHOWN ON PLANS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE START OF WORK.

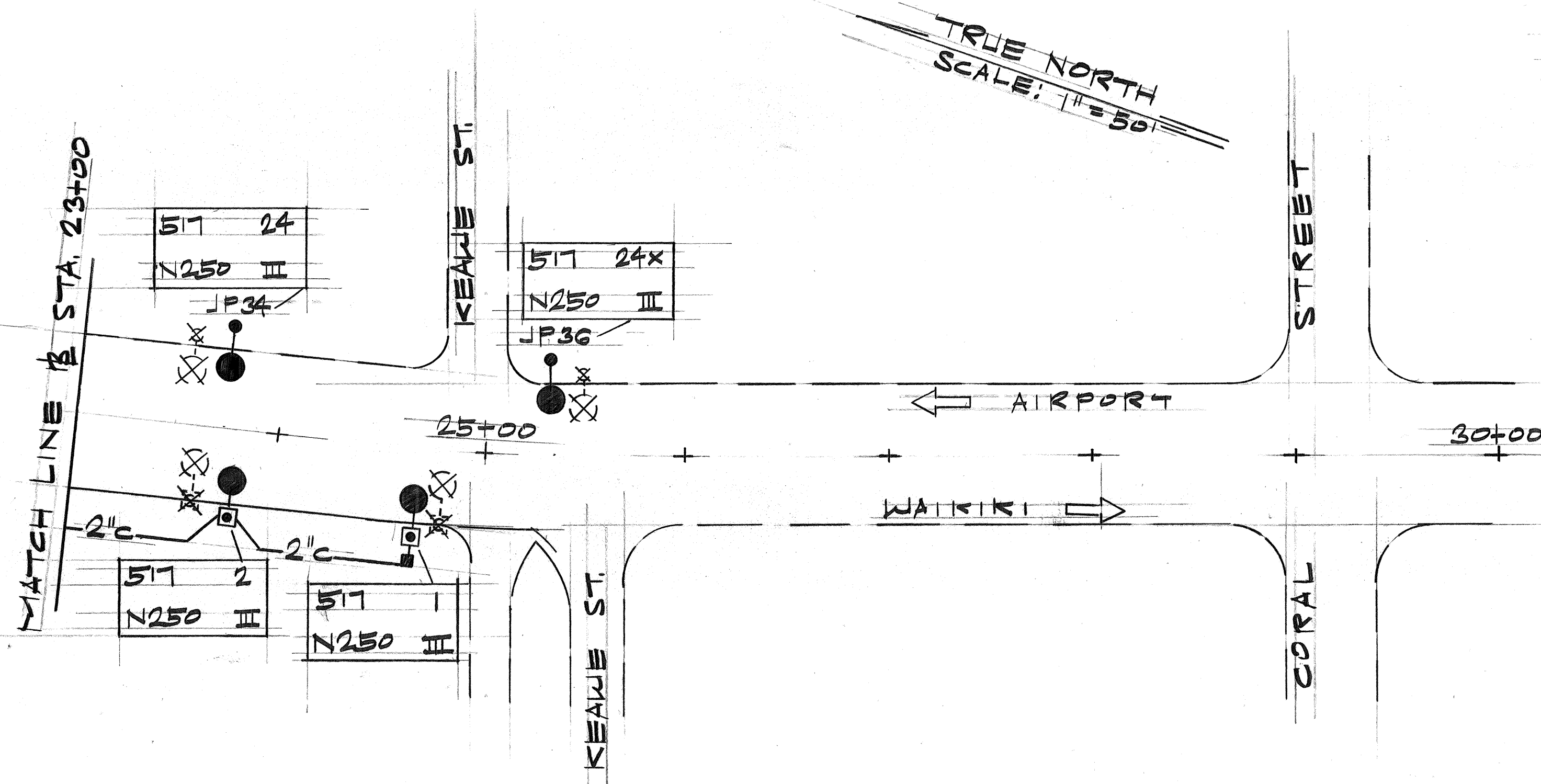
MAINTAIN EXIST. SERIES CIRCUIT LOOP FOR REMAINING SERIES LIGHTING

- FOR LOCATION OF UTILITY LINES SEE PLAN SHTS #49 & 50. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES.

LEGEND

NOTE: HPS = HIGH PRESSURE SODIUM

- EXISTING PULLBOX
- NEW TYPE "B" PULLBOX
- EXISTING WOOD POLE W/ EXISTING LUMINAIRE & MAST ARM (MULTIPLE CIRCUIT)
- ✕ REMOVE
- EXISTING METAL POLE W/ EXISTING LUMINAIRE & MAST ARM (SERIES CIRCUIT)
- ✕ REMOVE
- REPLACE EXISTING LUMINAIRE W/ NEW 250 W HPS LUMINAIRE ON EXISTING WOOD POLE & MAST ARM
- REPLACE EXISTING LUMINAIRE W/ NEW 250 W HPS LUMINAIRE (MULTIPLE CIRCUIT) ON EXISTING METAL POLE & MAST ARM
- NEW WOOD POLE W/ NEW 250 W HPS LUMINAIRE & 12 FT. TRUSS TYPE MAST ARM.
- NEW METAL POLE W/ NEW 250 W HPS LUMINAIRE, 6 FT. MAST ARM & TRANSFORMER BASE.
- S— REPLACE EXISTING SERIES CIRCUIT W/ NEW MULTIPLE CIRCUIT IN EXISTING CONDUIT.
- X-S-X- REMOVE EXISTING SERIES CIRCUIT SECTION
- 2" NEW 2" CONDUIT W/ 3-16 #8 WIRE & SOLID #8 BARE COPPER GROUND WIRE
- NEW TYPE II TRAFFIC SIGNAL STANDARD W/ 30'-0" MAST ARM & 6'-0" BRACKET ARM (FOR NEW 250 W HPS LUMINAIRE)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING PLAN

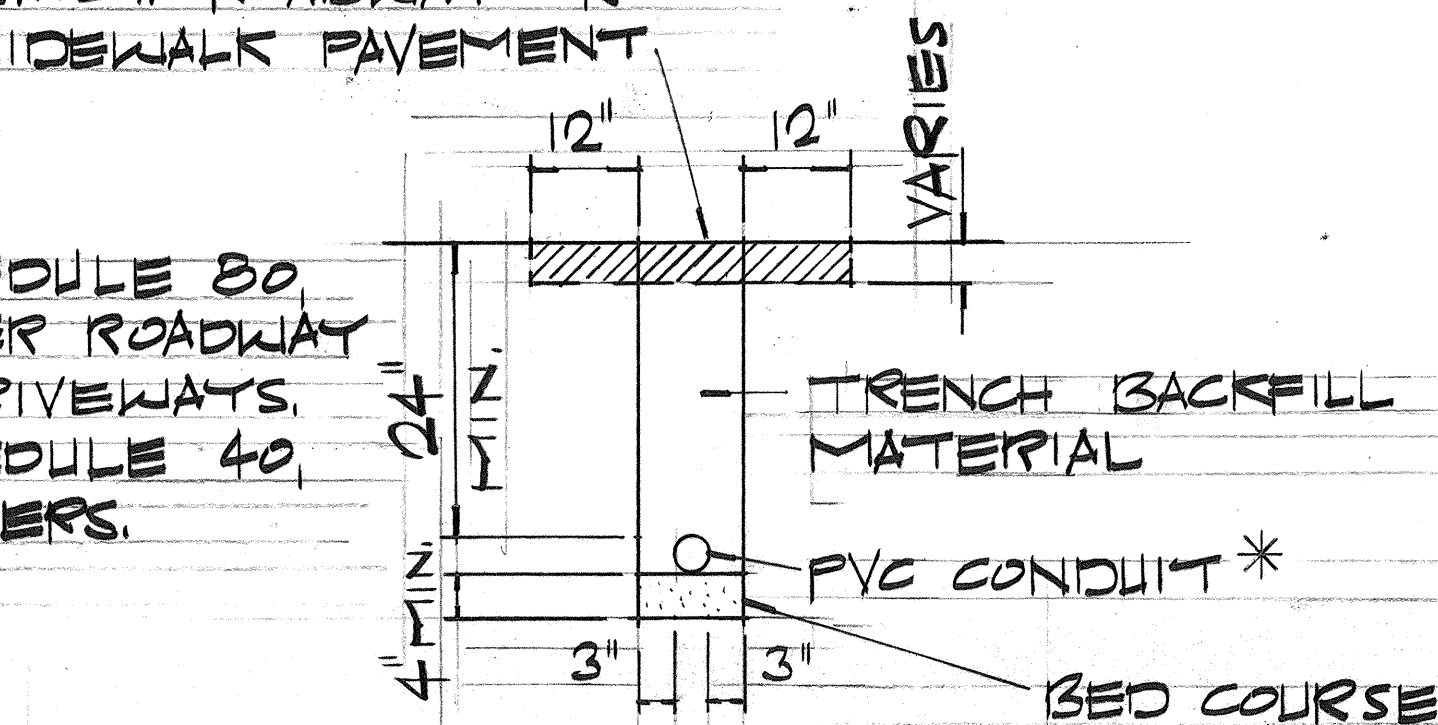
ALA MOANA BLVD.
SAFETY IMPROVEMENTS
PROJ. NO. HHS-092-1(12)
SCALE: 1"=50' MAY 1978

SHEET NO. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HHS-092-1(12)	1978	30	59

RESTORE TO MATCH EXIST. ROADWAY OR SIDEWALK PAVEMENT

*SCHEDULE 80 UNDER ROADWAY & DRIVEWAYS, SCHEDULE 40, OTHERS.

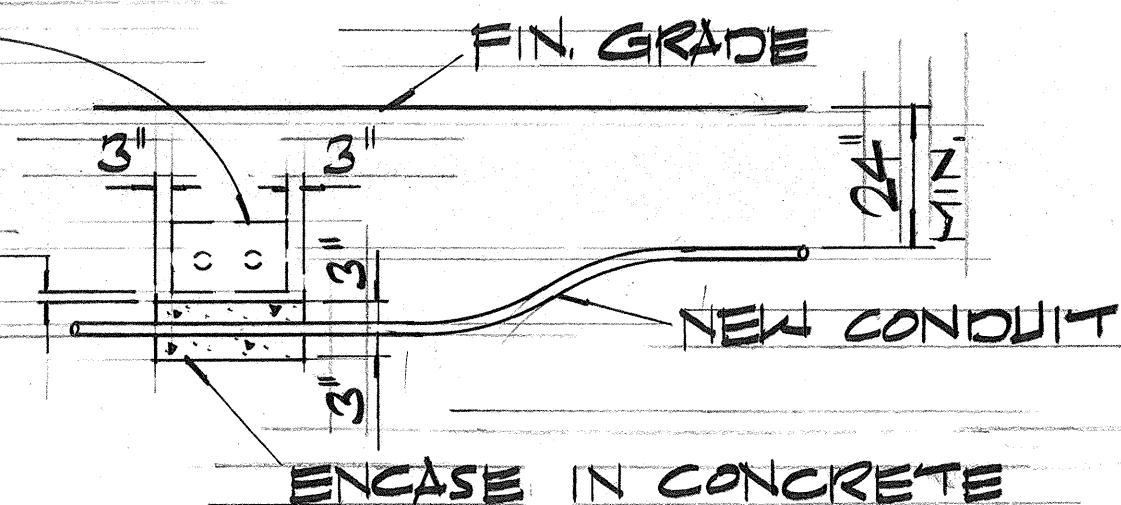


TYPICAL DUCT SECTION

NOT TO SCALE

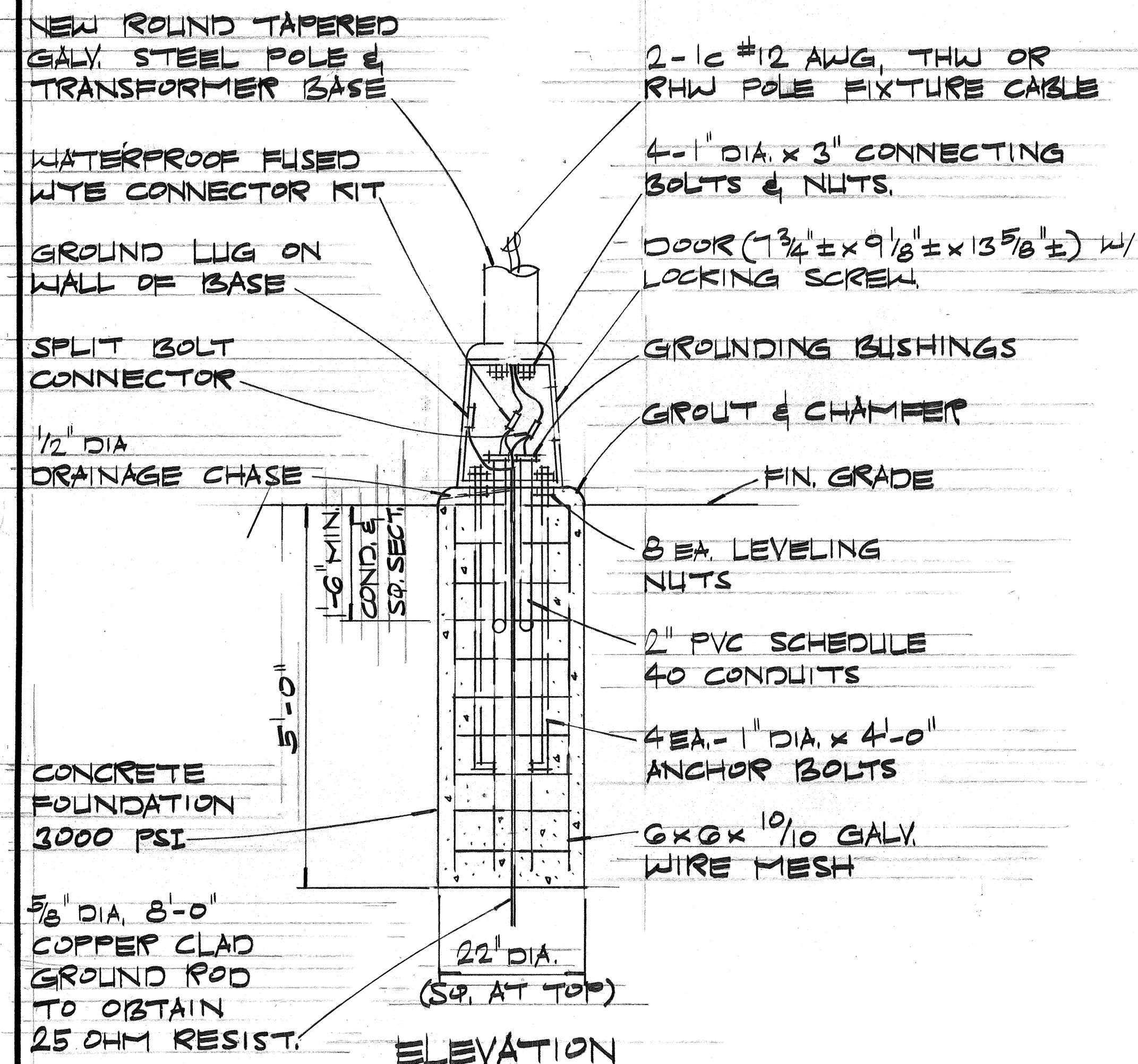
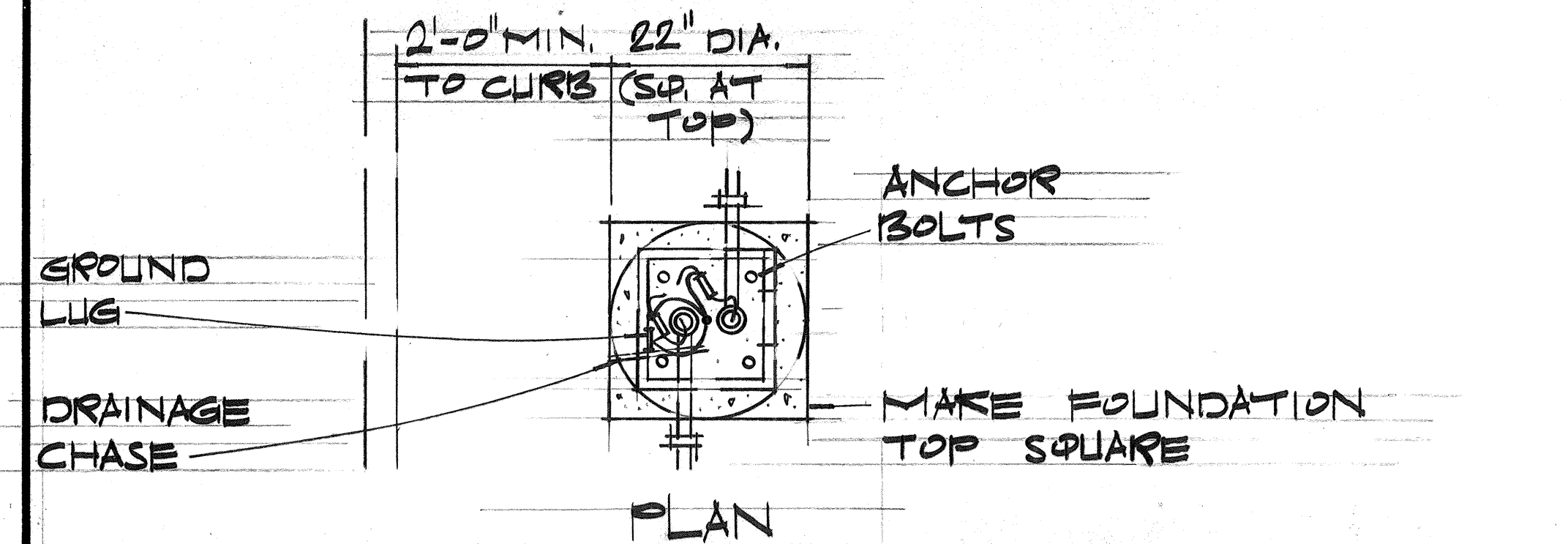
EXIST. CONDUIT ENCASED IN CONCRETE

NO CLEARANCE REQUIRED



CONDUIT BY-PASS DETAIL

NOT TO SCALE

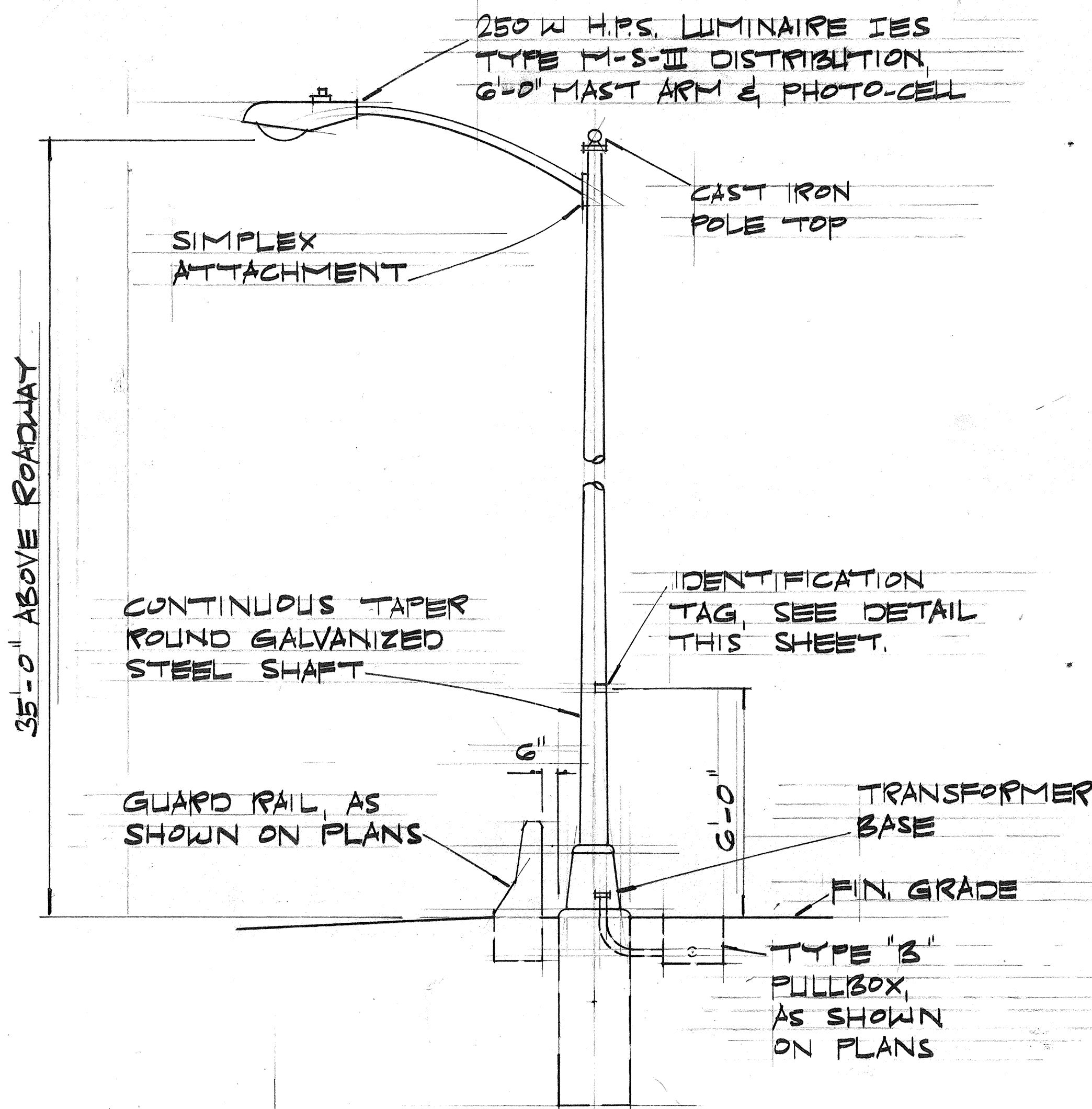


TRANSFORMER BASE DETAIL

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

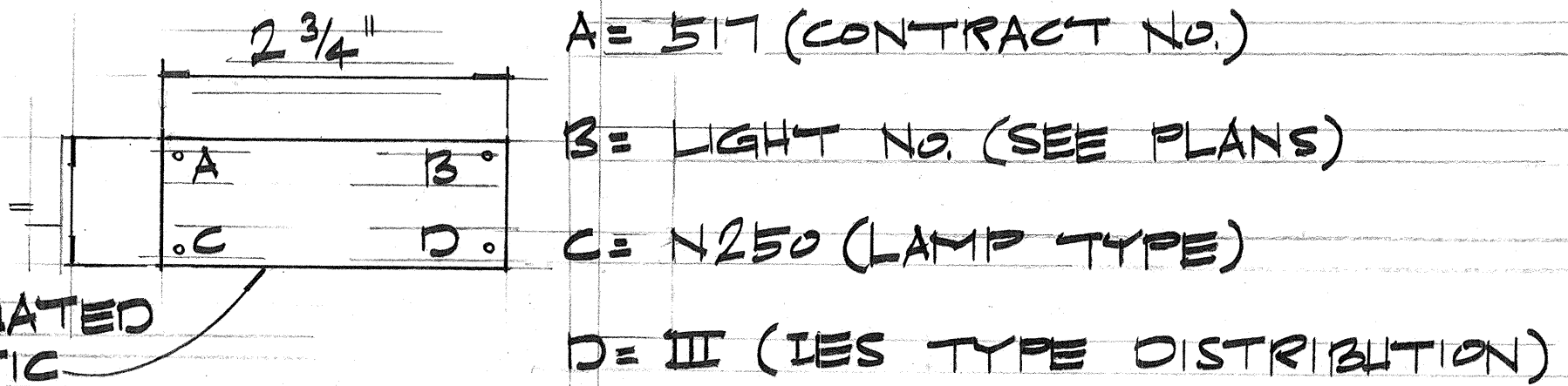
NOTE:

1. SEAL CONDUITS W/ DUCT SEAL AFTER INSTALLATION OF HIGHWAY LIGHTING CABLES.
2. HIGHWAY LIGHTING CIRCUITS SHALL INCLUDE A #8 AWG BARE COPPER WIRE GROUNDED AT ALL LIGHT STANDARDS.



HWY. LIGHTING STANDARD W/ LUMINAIRE, MAST ARM & TRANSFORMER BASE

SCALE: 3/8" = 1'-0"



IDENTIFICATION TAG

NOTE:

1. PROVIDE IDENTIFICATION TAGS ON ALL POLES UNLESS OTHERWISE SPECIFIED.
2. HIGHWAY LIGHT NUMBERS ON PLANS MAY NOT CORRESPOND W/ NUMBERS ON IDENTIFICATION TAGS. VERIFY NUMBERS W/ STATE.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING
DETAILS

ALA MOANA BLVD
SAFETY IMPROVEMENTS
PROJ. NO. HHS-092-1(12)
SCALE: AS SHOWN MAY 1978

SHEET NO. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HHS-092-1(12)	1978	31	50

HIGH VOLTAGE

3/4" ϕ CHASE NIPPLE W/
INSULATING BUSHING
1/16" KEY HOLE SLOT
9/16" ϕ HOLES W/ 1/2" ϕ x 5"
LAG SCREWS

HECO
SECONDARY

WEATHERHEAD

FIRE ALARM

HTCO.

STRAPS AT 4'-0" O.C.

TERMINAL ADAPTORS, FROM
RIGID STEEL TO PVC CONDUIT

IDENTIFICATION TAG,
INSTALL FACING
TRAFFIC

FIN. GRADE

TYPE "B" PULLBOX

BACKFILL

12'-0"
TRUSS BRACKET

1-20 #8 POWER CABLE, PROVIDE
ENOUGH SLACK FOR HECO. TO
TAKE UP & MAKE SERVICE CONN.

1/4" PVC SCHEDULE 40
CONDUIT RISER

1/4" STEEL CONDUIT
RISER

MANUAL CIRCUIT CLOSURE
DEVICE & 30 AMP CIRCUIT
BREAKER IN NEMA TYPE 3
ENCLOSURE

2" STEEL
CONDUIT RISER

MOUND &
TAMP

2" SCHEDULE 80 PVC CONDUIT
UNDER ROADWAY. SEE HWY.
LIGHTING LAYOUT SHTS.

35'-0" ABOVE ROADWAY

TYPICAL DETAILS LUMINAIRE MOUNTED ON WOOD POLE & POWER SERVICE CONNECTION

NOT TO SCALE

BOTTOM PLATE
OF TRUSS ARM

HECO
SECONDARY
CABLE

PROVIDE ENOUGH
SLACK FOR HECO
TO TAKE UP &
MAKE SERVICE
CONNECTION

HECO SECONDARY
ARM

HECO SECONDARY CONNECTION DETAIL

NOT TO SCALE

MATERIAL LIST

ITEM No.	DESCRIPTION
①	LUMINAIRE, 250 W H.P.S. TYPE M-S-III & BRACKET (AS REQ'D) W/ PHOTO-ELECTRIC CONTROL (AS REQ'D).
②	CONDUIT, 3/4" SCHEDULE 80 & STRAPS.
③	N LINE FUSE HOLDER W/ 10A FUSE.
④	WIRE, #10 AWG STRANDED COPPER, TYPE RHW BLACK.
⑤	WIRE, #10 AWG STRANDED COPPER, TYPE RHW WHITE.
⑥	N LINE UNFUSED, INSULATED SEPARABLE CONNECTOR.
⑦	WIRE, #8 AWG 7-STRAND ALUMINUM RHW.

NOTE:

ALL HARDWARE, UNLESS INDICATED AS
ALUMINUM OR ALUMINUM ALLOY, SHALL
BE HOT DIPPED GALVANIZED STEEL.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING DETAILS

ALA MOANA BLVD
SAFETY IMPROVEMENTS
PROJ. NO. HHS-092-1(12)
SCALE: AS SHOWN MAY 1978

SHEET NO. 3 OF 3 SHEETS