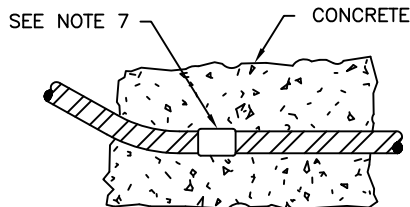
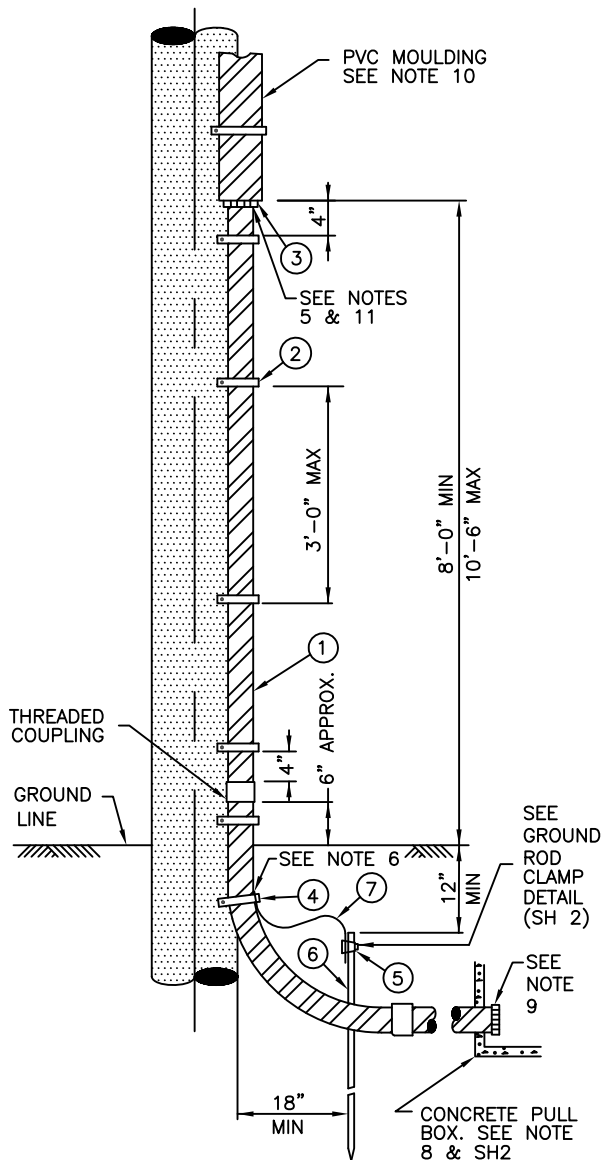




NOTES:



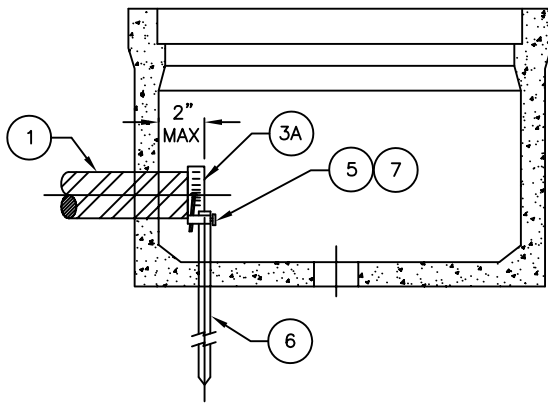
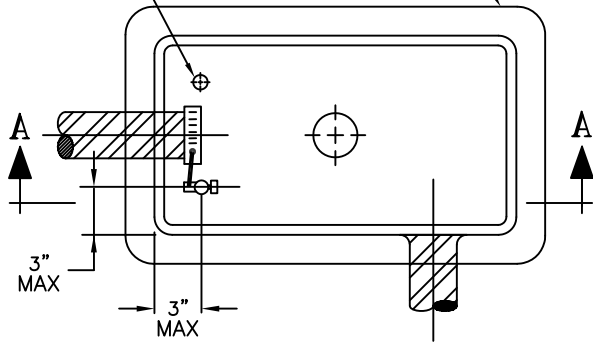
**NON-METALLIC DUCT
CONCRETE ENCASED**

- 1 THIS DWG. ILLUSTRATES THE INSTALLATION REQUIREMENTS FOR RIGID STEEL RISER CONDUIT ON WOOD POLES. THESE REQUIREMENTS APPLY TO RISER INSTALLATIONS OF ALL VOLTAGES.
- 2 THE RISER CONDUIT SHALL BE LOCATED IN A QUADRANT ON THE POLE AS DIRECTED BY THE ELECTRIC UTILITY ON THE APPLICABLE LAYOUT DWG.
- 3 THE MIN RADIUS ALLOWED IN THE BEND SHALL BE 36" FOR PRIMARY CONDUIT. UNLESS OTHERWISE SPECIFIED BY THE ELECTRIC UTILITY. A FACTORY BEND MAY BE USED FOR SECONDARY CONDUIT.
- 4 NO WELDING, BRAZING OR TORCH CUTTING SHALL BE MADE ON THE RISER CONDUIT. THE HEAT WILL DESTROY THE GALVANIZED COATING ON THE CONDUIT.
- 5 ALL SECONDARY VOLTAGE RISER (600 VOLTS OR LESS) CONDUIT SHALL HAVE AN INSULATING BUSHING AT THE TOP (ITEM-3)
- 6 ALL PRIMARY VOLTAGE RISER (600 VOLTS OR GREATER) CONDUIT SHALL HAVE A GROUNDING BUSHING (ITEM-4)
- 7 IF A TRANSITION FROM METALLIC TO NON METALLIC CONDUIT IS MADE, A FACTORY ADAPTER MUST BE USED SEE NOTE 9
- 8 UNLESS OTHERWISE APPROVED BY ELECTRIC UTILITY, CONDUIT SHALL TERMINATE AT A PRECAST BOX AT THE BASE OF THE RISER POLE. REFER TO THE APPLICABLE LAYOUT DWG. FOR THE EXACT LOCATION OF THE BOX. SEE DWG. NO. DT-SS-U-1002 FOR THE SIZE AND TYPE OF BOX REQUIRED. SEE SHEET NO. 2 FOR ALTERNATE GRD LOCATION.
- 9 WHEN THE ALTERNATE GROUNDING LOCATION IS USED (SEE SHEET 2), THE RISER CONDUIT MUST BE A CONTINUOUS RUN OF GALVANIZED RIGID STEEL.
- 10 WHERE THE CUSTOMER FURNISHES & INSTALLS THE RISER CONDUIT, THE ELECTRIC UTILITY SHALL FURNISH AND INSTALL THE RISER MOLDING EXTENDING FROM THE RISER CONDUIT TO THE OVERHEAD CONDUCTOR LEVEL ON THE POLE.
- 11 ANY MATERIALS SUBSTITUTION MUST BE APPROVED IN ADVANCE BY THE ELECTRIC UTILITY.
- 12 THE BEND OR SWEEP USED AT THE BOTTOM OF THE RISER CONDUIT SHALL BE RIGID GALVANIZED STEEL.

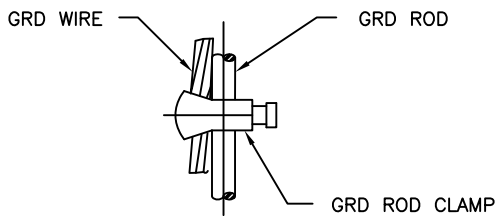
APPROVED <u>3/1994</u>		ENGINEERING STANDARD		3	1-12	REVISED NOTE 8	TT
<i>MDR</i>		INSTALLATION OF STEEL RISER CONDUIT ON WOOD POLES		2	4-86	REVISED NOTES	
ENGR. MANAGER				1	5-67	ADDED SHT 2 & REVISED MATL. LIST	
ENGR	PEV	CITY OF PALO ALTO CALIFORNIA		REV	DATE	DESCRIPTION	APPR
DRAWN	UES/MJ			NTS		DT-SS-U-1001	1 OF 2
CHECKED	PEV			SCALE		STANDARD NO.	SHEET NO.

SEE CPA STD DWG.
DT-SS-U-1002 FOR
PROPER BOX SIZE

GRD ROD ALTERNATE
LOCATION. STAR
DRILL HOLE AS REQUIRED



SECTION A-A



GRD ROD CLAMP ASSY.

LIST OF MATERIALS

ITEM	DESCRIPTION	SIZE	MANUFACTURER	CAT. NO.
1	HOT DIPPED GALVANIZED RIGID STEEL CONDUIT	AS REQUIRED	-	-
2	GALVANIZED HANGER IRON USE 1/4" X 2 1/2" GALV. LAG SCREWS	NO. 1 7/8" 16 GA	-	-
3	CONDUIT TOP GROUNDING BUSHING	2"	UNION INSULATING	96-2
			O-Z COMPANY	HBL-2021
			UNION INSULATING	96-3
			O-Z COMPANY	HBL-3121
			UNION INSULATING	96-4
			O-Z COMPANY	HBL-4121
			O-Z COMPANY	HBL-6121
FOR SUBSTITUTE, SEE NOTE 11				
3A	CONDUIT BOTTOM GROUNDING BUSHING	2"	O-Z COMPANY	RBL-2021
			O-Z COMPANY	RBL-3121
			O-Z COMPANY	RBL-4121
			O-Z COMPANY	RBL-5121
			O-Z COMPANY	RBL-6121
4	CONDUIT GROUND CLAMP	2"	O-Z COMPANY	CG 2022
			T & B COMPANY	3903
			O-Z COMPANY	CG 3122
			T & B COMPANY	3904
			O-Z COMPANY	CG 4122
			T & B COMPANY	3905
			O-Z COMPANY	CG 5122
5	GROUND ROD CLAMP	5/8"	ANDERSON ELEC. HUBBARD JOSLYN	GC 103 -01 6540 J8492AB
			LINE MATERIAL ELEC. WEAVER MATERIAL ELEC	WB 3/4 H WB 3/4 H
6	GROUND ROD	5/8"	BLACKBURN HUBBARD LINE MATERIAL JOSLYN	6258 9438 119952 J8338
		3/4"	HUBBARD LINE MATERIAL JOSLYN	9452 119961 J8352
7	STANDARD BARE COPPER WIRE	NO. 4 AWG MIN	-	-

APPROVED 3/1994

MDB
ENGR. MANAGER

ENGINEERING STANDARD

**INSTALLATION OF STEEL RISER
CONDUIT ON WOOD POLES**

ENGR	PEV	
DRAWN	UES/MJ	MJ
CHECKED	PEV	

**CITY OF PALO ALTO
CALIFORNIA**

2	10-08	REVISED SECTION A-A	TT
1	5-67	REVISED MATL. LIST & ADDED SH 2	
REV	DATE	DESCRIPTION	APPR
NTS		DT-SS-U-1001	2 OF 2
SCALE		STANDARD NO.	SHEET NO.