

OBSERVE ALL SAFETY REQUIREMENTS AND THEN REMOVE COVERING ON THE GROUND CONDUCTOR IF PRESENT AND PROVIDE SUFFICIENT ROOM FOR THE MODEL 3710/3730 JAWS, WHICH MUST BE ABLE TO CLOSE EASILY AROUND THE CONDUCTOR. THE JAWS CAN BE PLACED AROUND THE GROUND ROD ITSELF.

NOTE: THE CLAMP MUST BE PLACED SO THAT THE JAWS ARE IN AN ELECTRICAL PATH FROM THE SYSTEM NEUTRAL OR GROUND WIRE TO THE GROUND ROD, OR COUNTERPOISE.

SELECT THE CURRENT RANGE "A". CLAMP ONTO THE GROUND CONDUCTOR AND MEASURE THE GROUND CURRENT. THE MAXIMUM CURRENT RANGE IS 30 A. IF THE GROUND CURRENT EXCEEDS 5 A, GROUND RESISTANCE MEASUREMENTS ARE NOT POSSIBLE. DO NOT PROCEED FURTHER WITH THE MEASUREMENT. REMOVE THE CLAMP—ON TESTER FROM THE CIRCUIT, NOTING THE LOCATION FOR MAINTENANCE, AND CONTINUE TO THE NEXT TEST LOCATION. RECORD CURRENT ON DATA SHEET.

AFTER NOTING THE GROUND CURRENT, SELECT THE GROUND RESISTANCE RANGE $^{\prime}\Omega^{\prime}$ (OHM) and measure the resistance directly. The reading you measure with the 3710/3730 indicates the resistance of the ROD, resistance of the counterpoise, but also of the connection to the system neutral and all bonding connections BETWEEN THE NEUTRAL AND THE ROD.

RECORD 2 OR 4 RESISTANCE READINGS ON DATA SHEET. IF ANY ONE READING IS ABOVE 25 OHMS. CONTACT DPU—E IMMEDIATELY.

SEND COMPLETED DATA SHEET TO THE PROJECT ENGINEER AND RECORDS.

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ELECTRIC STANDARD (DETAIL)

DATA SHEET FOR RECORDING GROUND RESISTANCE MEASUREMENT

BY THE CLAMP ON GROUND RESISTANCE TEST METHOD

MANHOLE NUMBER + TYPE: POLE NUMBER + SIZE: STREET ADDRESS: NAME OF PERSON PERFORMING TEST: TEMPERATURE (AIR): _________ SIZE OF GROUND RODS: $\underline{5/8}$ DIA COPPER CLAD, UNLESS NOTED

SIZE OF CABLE FOR GROUND WIRE AND/OR COUNTERPOISE IS 4/O COPPER (BARE) 7 STRAND, UNLESS NOTED

INST FEET GROUNI TOTAL PER	OF D RODS	FEET COUNTE	ERPOISE	RESISTA GROUN	SURED ANCE OF D RODS HMS)	RESIST.	SURED ANCE OF ERPOISE HMS)	RESISTA GROUNI AN COUNTE	URED NCE OF O RODS ND ERPOISE MS)	i.e. ROO SAND,	CK, CLAY WET OR	CONNE GROUN i.e. C BOLTED	HOD OF CTION TO ND RODS ADWELD , AMPACT, RIMP.	CURF READ (AMI	ING	MEASURED WATER LEVEL IN MANHOLE (FT)	REMARKS
LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2	LOCATION #1	LOCATION #2		

NOTE:

A HIGH READING INDICATES ONE OR MORE OF THE FOLLOWING:

1) POOR GROUND RODS.

TYPE OF METER AND MFG.:

1) POOR GROUND CONDUCTOR.
2) OPEN GROUND CONDUCTOR.
3) HIGH RESISTANCE, DUE TO POOR CONNECTIONS ON RODS, HARDWARE & CLAMPS.
4) METER CLAMP IS IMPROPERLY CLOSED.

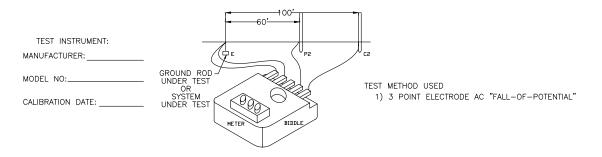
5) FAULTY METER.

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DATA SHEET FOR RECORDING GROUND RESISTANCE BY THE FALL OF POTENTIAL METHOD.

F.A.P. RTE.	SECTION		СО	UNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035	+	DU	PAGE		
				CONTR	ACT 601	242
FED.ROAD.DIS	T.NO.	ILLINOI	S	FED. /	AID PRO	JECT

TYPE OF METER AND MFG.: MANHOLE NUMBER + TYPE: POLE NUMBER + SIZE:
STREET ADDRESS:
NAME OF PERSON
PERFORMING TEST:
W.F. #
TEMPERATURE (AIR):*F
SIZE OF GROUND RODS: 5/8 DIA COPPER CLAD, UNLESS NOTED
SIZE OF CABLE FOR GROUND WIRE AND/OR COUNTERPOISE IS 4/O COPPER (BARE) 7 STRAND, UNLESS NOTED



LOCATION	TEST METHOD	NO. OF	ROD SIZE	DISTANCE BETWEEN	AUX. ELECTRODE TEST POINT (FT.)		RESISTANCE	REMARKS
					P2	C2		

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	ROUTE	. 59 F	<u>road imf</u>	PROVEMENTS
PROJECT DESCRIPTION	DETAI	LS AND	STANDARI	DS
ENGINEER BCC	drafting 8—	_{DATE} 04—12	MAP # 4211,4224	SCALE N.T.S.
	SM REVISIONS	DATE	AT&T JOINT AGREEMENT N/A	# PROJECT # EU-12

NOTE

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> CONTRACT 60R30 SHEET 813 OF 1156