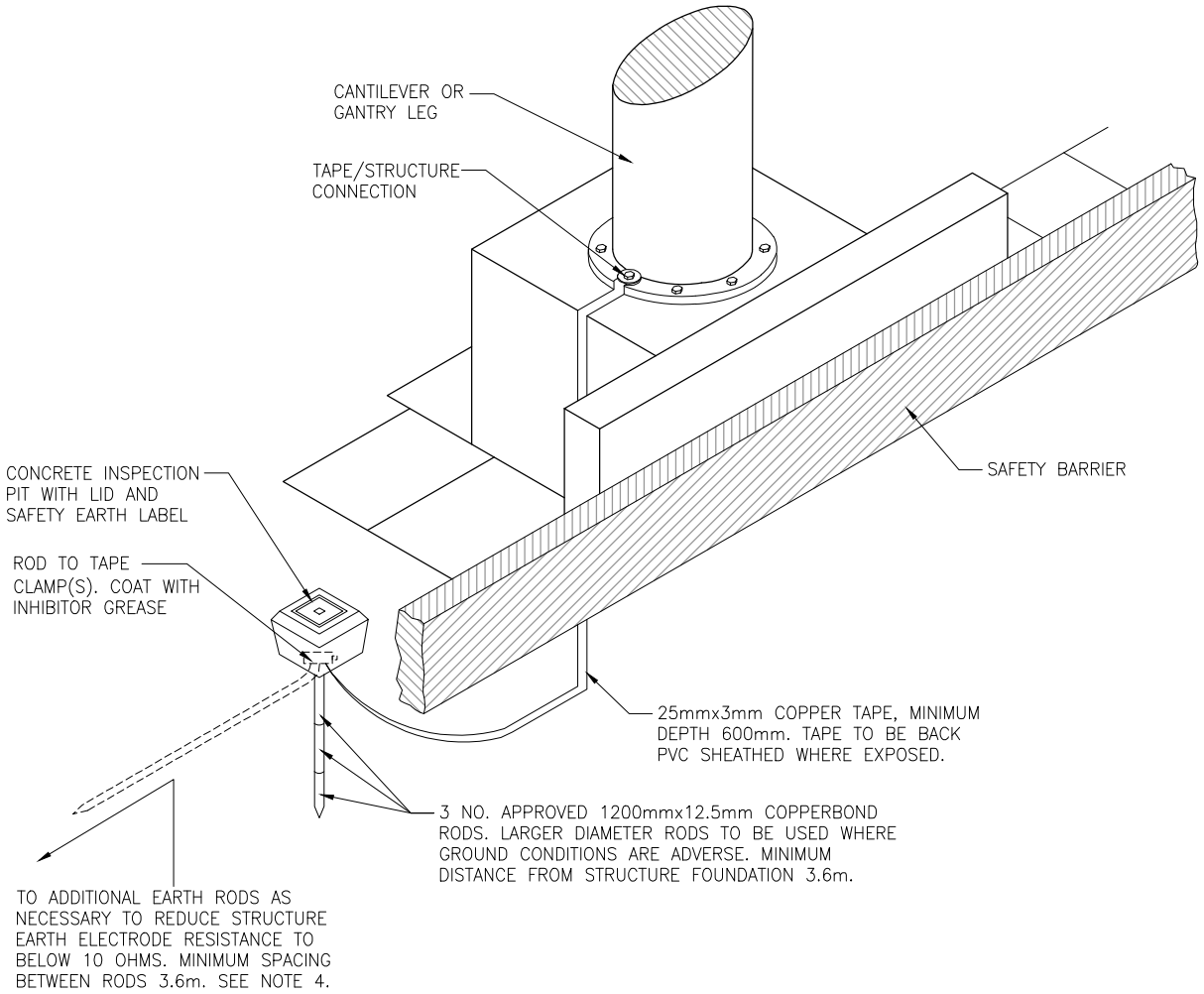
TII PUBLICATION NUMBER: CC-SCD-01568



NOTES:

1. DETAILS SHOWN ARE FOR CANTILEVER OR GANTRY LEG.
2. AT EACH STRUCTURE THE MINIMUM REQUIREMENTS AS SHOWN SHALL BE INSTALLED AND TESTS CARRIED OUT TO ASCERTAIN THE STRUCTURE TO EARTH RESISTIVELY. TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH IS EN. TEST RESULTS TOGETHER WITH TEST WEATHER CONDITIONS SHALL BE RECORDED IN TABULAR FORM AND FORWARDED TO THE OVERSEEING ORGANISATION.
3. FOR THE TESTS IT IS REQUIRED THET ALL LIVE SUPPLY CONDUCTORS, POWER CABLE, EARTH CONDUCTORS AND THE ARMOURING OF ALL POWER AND COMMUNICATIONS CABLE BE TEMPORARILY DISCONNECTED FROM THE STRUCTURE. EARTHING CONDUCTORS/ARMOURING SHALL BE DISCONNECTED ONLY AFTER DISCONNECTION OF LIVE CONDUCTORS AND UPON COMPLETION OF TESTING, SHALL BE RECONNECTED BEFORE RECONNECTION OF THE LIVE CONDUCTORS. IT SHOULD BE NOTED THAT NEUTRAL CONDUCTORS CONSTITUTE LIVE CONDUCTORS.
4. THE GANTRY STRUCTURE WHEN ELECTRICALLY CONTINUOUS MAY BE CONSIDERED TO BE CONSIDERED TO BE SELF PROTECTING, PROVIDED THE RESISTANCE TO EARTH DOES NOT EXCEED 10 OHMS. WHERE THE RESISTANCE TO EARTH EXCEEDS 10 OHMS AN APPROPRIATE EARTH ELECTRODE SYSTEM FROM THE GANTRY LEGS SHALL BE PROVIDED IN ACCORDANCE WITH IS EN 62305.
5. AT GANTRY SITE LIGHTING PROTECTION SHALL BE PROVIDED TO EACH LEG OF THE STRUCTURE WITH IDENTICAL INSTALLATIONS AS SHOWN ON RCD/1500/67.
6. AT CANTILEVER SITE THE INFRASTRUCTURE CONTRACTOR SHALL SUPPLY COPPER TAPE ONE METER LONGER THAN REQUIRED FOR THE TEST CONNECTION TO HOLDING DOWN BOLTS. AFTER TESTING THE TEST PLATE SHALL BE UNBOLTED AND THE SPARE COPPER TAPE COILED UP, PROTECTED WITH A POLYTHENE BAG AND BURIED IN THE GROUND ADJACENT TO THE CANTILEVER FOUNDATION.
7. IF GROUND CONDITION PROHIBIT THE DRIVING OF EARTH RODS, A SUITABLE EARTH PLATE SYSTEM MAY BE SUBSTITUTED FOLLOWING APPROVAL BY THE OVERSEEING ORGANISATION.

NOT TO SCALE

NRA NATIONAL ROADS AUTHORITY	ROAD CONSTRUCTION DETAILS	INSTALLATION DRAWING TCC	Issue	Date	TYPICAL EARTH BONDING SYSTEM FOR GANTRY AND CANTILEVER STRUCTURES
			P1	06/15	Drawing No. RCD/ 1500/068