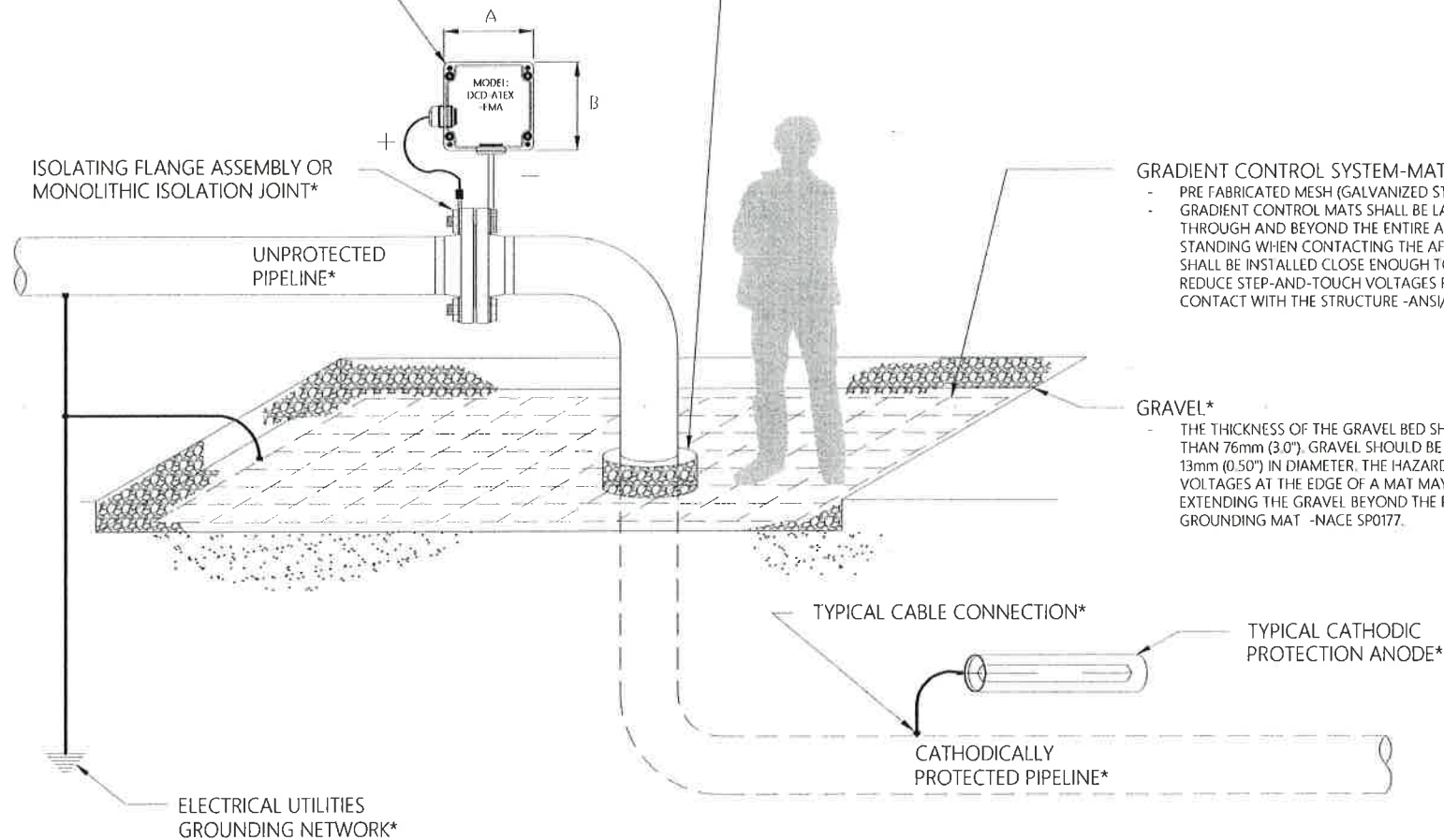




TYPICAL DC-DECOUPLER™ ENCLOSURE:

- ATEX & IECEX CERTIFIED ENCLOSURE
- FIBREGLASS REINFORCED POLYESTER
- IP67 (CERTIFIED); EQUIVALENT TO NEMA 4,4X,6P
- TYPICAL OVERALL DIMENSIONS FOR STANDARD RUSTROL® DC-DECOUPLER™ MODEL: DCD; DIMENSIONS ARE MODEL SPECIFIC.

ICCC RECOMMENDS FOUR (4) INCHES SEPARATION BETWEEN THE GRADIENT CONTROL SYSTEM-MAT AND THE PRIMARY STRUCTURE (i.e. PIPELINE)



GRADIENT CONTROL SYSTEM-MAT (GCS-M)*

- PRE FABRICATED MESH (GALVANIZED STEEL OR COPPER)
- GRADIENT CONTROL MATS SHALL BE LARGE ENOUGH TO EXTEND THROUGH AND BEYOND THE ENTIRE AREA ON WHICH PEOPLE MAY BE STANDING WHEN CONTACTING THE AFFECTED STRUCTURE. THE MAT SHALL BE INSTALLED CLOSE ENOUGH TO THE SURFACE TO ADEQUATELY REDUCE STEP-AND-TOUCH VOLTAGES FOR INDIVIDUALS COMING IN CONTACT WITH THE STRUCTURE -ANSI/IEEE STANDARD C2.

GRAVEL*

- THE THICKNESS OF THE GRAVEL BED SHOULD BE NO LESS THAN 76mm (3.0"). GRAVEL SHOULD BE A MINIMUM OF 13mm (0.50") IN DIAMETER. THE HAZARDS OF STEP VOLTAGES AT THE EDGE OF A MAT MAY BE MITIGATED BY EXTENDING THE GRAVEL BEYOND THE PERIMETER OF THE GROUNDING MAT -NACE SP0177.

NOTES:

- 1) NOT DRAWN TO SCALE
- 2) NOMINAL DIMENSIONS
- 3) ALL DIMENSIONS ARE APPROXIMATE.
- 4) ALL DIMENSIONS ARE SHOWN WITH BOTH METRIC & IMPERIAL UNITS AND ARE GOVERNED BY THE IMPERIAL MEASUREMENTS AS SHOWN.
- 5) TYPICAL INSTALLATION ONLY. VARIATIONS ARE COMMON BASED ON THE SITE REQUIREMENTS. ALL NOTED (*) DETAILS ARE PROVIDED AS SUGGESTIONS ONLY, AND ARE TO BE PROVIDED BY OTHERS. ALL NOTED (*) DETAILS ARE NOT INCLUDED WITH RUSTROL® PRODUCTS.
- 6) THE RUSTROL® DC-DECOUPLER™ MODEL: DCD-ATEX-FMA IS TYPICALLY PROVIDED WITH THE FLANGE MOUNT ASSEMBLY (FMA). THE DC-DECOUPLER™ MODEL: DCD-ATEX-FMA IS TYPICALLY PROVIDED WITH ONE (1) CABLE 200mm (12") LENGTH OF AWG #6 (EQUIVALENT TO 16mm²), MULTI STRAND CONNECTING CABLE WITH HIGH TEMPERATURE BLACK INSULATION AND ONE (1) RUSTROL® EXTERNAL FLANGE MOUNT BRACKET TO ACCOMMODATE FOR UP TO M30 (1") DIA. FLANGE BOLT.
- 7) ACCEPTABLE GROUND RESISTANCE IN ACCORDANCE WITH IEEE STANDARD 80, SURROUNDING THE GRADIENT CONTROL MAT, SHOULD NOT EXCEED 1 OHM. WITHIN SMALLER DISTRIBUTION SUBSTATIONS, THE USUALLY ACCEPTABLE RANGE IS FROM 1 OHM TO 5 OHM, DEPENDING ON THE LOCAL CONDITIONS.
- 8) WHILE PUBLISHED STATEMENTS ARE BELIEVED TO BE ACCURATE, THEY ARE OFFERED AS SUGGESTIONS ONLY. ANY USE THEREOF IS AT THE USER'S INDEPENDENT DISCRETION.
- 9) THE LAYOUT AND STRATEGIES CONTAINED HEREIN MAY NOT BE SUITABLE FOR EVERY SITUATION. IT IS RECOMMENDED THAT THE "END-USER" CONSULT WITH A PROFESSIONAL ENGINEER FAMILIAR WITH ANSI, IEEE, NACE, CSA, EN, BSI, AND ANY OTHER APPLICABLE STANDARD, AND LOCAL REGULATIONS.
- 10) INSTALLATION IS RECOMMENDED TO BE UNDERTAKEN BY AN AUTHORIZED ELECTRICIAN / CONTRACTOR FAMILIAR WITH INSTALLATION CODES WITHIN THE JURISDICTION OF THE COUNTRY FOR WHICH THE RUSTROL® PRODUCT IS BEING INSTALLED WITHIN.
- 11) ICCC IS NOT LIABLE FOR DAMAGES CAUSED BY INCOMPATIBILITY OF ANY NON-RUSTROL® COMPONENT CONNECTED TO THE RUSTROL® SYSTEM.
- 12) THIS DRAWING REMAINS THE PROPERTY OF INTERPROVINCIAL CORROSION CONTROL COMPANY LTD / INTERNATIONAL CORROSION CONTROL INC.

No.	Date	By	Revision
0	MAY 28/2015	H.O.	ISSUED FOR REVIEW

Chk'd By	Date
<i>Adrian</i>	MAY 28/2015

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Project	TYPICAL INSTALLATION UTILIZING RUSTROL® DC-DECOUPLER™ MODEL: DCD-ATEX-FMA WITH GRADIENT CONTROL SYSTEM-MAT FOR AC MITIGATION
Drawing No.	DCD-9B
Rev.	0