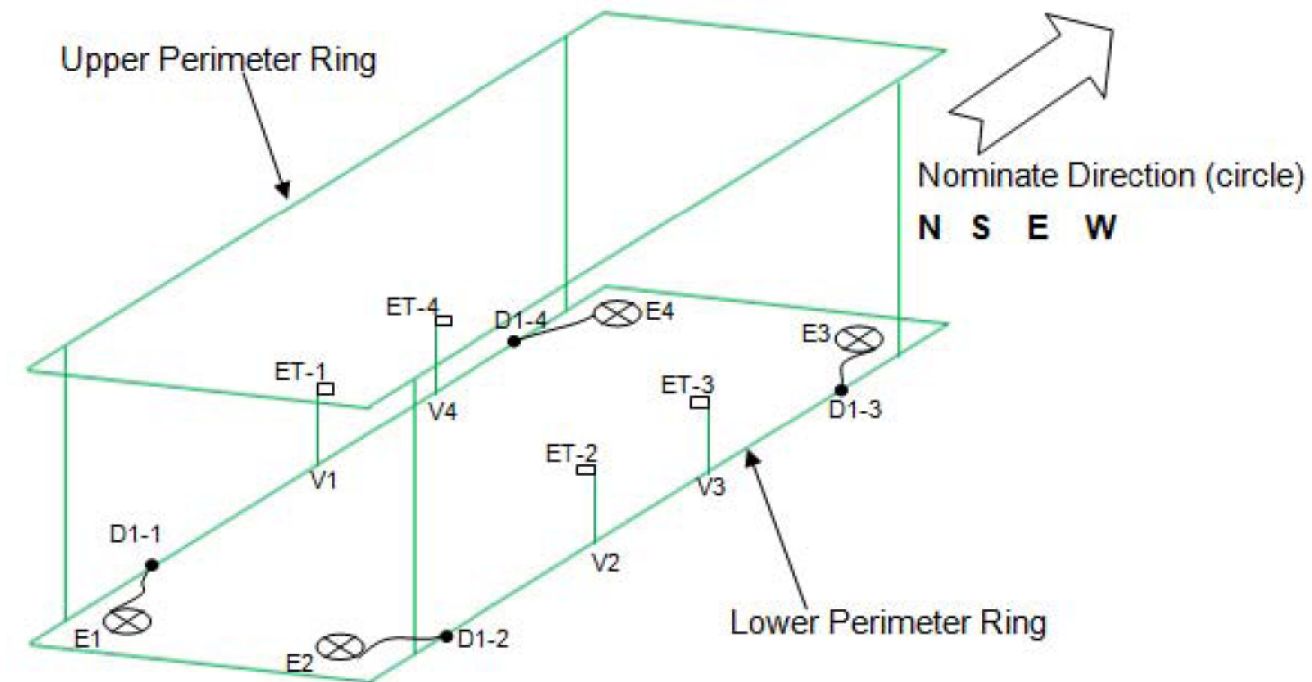


Joint Bay Embedded Earthing ITP

Project	
Feeder No.	
Joint Bay No.	
Address	
Drawing No.	



* All inspections/measurements with the exception of Item #1 to occur after completion of welding and prior to concreting.

Item #		Drawing/cell reference	Amount	Inspection		Name	Initial	Date	Criteria:	Comments and Photos
*1	Electrodes (prior to reinforcing for joint bay being formed)	236374 / BE	4	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> 4 x electrodes of nominated length installed as per earthing design 2 x double P crimps connecting each electrode to pvc covered conductor of nominated size Measure individual and combined electrode impedance (refer NS116 E7 and E8) 	Electrode Impedance: Combined Impedance: Ω E1: Ω E2: Ω Electrodes driven / drilled (circle) E3: Ω E4: Ω Electrode depths: m
2	Perimeter Ring	236374 / WA, WB		<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Components installed as per design Visual confirmation of continuously welded lower ring Visual confirmation of continuously welded upper ring Visual confirmation of 4 vertical rebar welded connections between the lower and upper rings Weld length >75 mm minimum length and weld is of good strength and achieves the minimum cross sectional area 	Weld photos taken and numbered on schematic above: <input type="checkbox"/>
3	Perimeter Ring : welded to vertical rebars connecting to Earth Tags	236374 / WA	4	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Components installed as per design Weld length >75 mm minimum length and weld is of good strength and achieves the minimum cross sectional area 	Weld photo taken and numbered on schematic above: Weld V1 <input type="checkbox"/> Weld V3 <input type="checkbox"/> Weld V2 <input type="checkbox"/> Weld V4 <input type="checkbox"/>
4	Earth Tag (vertical)	236374 / EV	4	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Number Installed Locations as per design Tag protrudes the correct length from the face surface Adequate galvanising/painting Weld length >75 mm minimum length and weld is of good strength and achieves the minimum cross sectional area 	Photos of each Earth Tag taken as numbered on schematic above: ET- 1 <input type="checkbox"/> ET- 2 <input type="checkbox"/> ET- 3 <input type="checkbox"/> ET- 4 <input type="checkbox"/>
5	D1	236374 / D1, RD	4	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Number of D1's installed Location/Orientation of D1's as per design Weld length >75 mm minimum length and weld is of good strength and achieves the minimum cross sectional area 	Photos of each D1 taken as numbered on schematic above: D1- 1 <input type="checkbox"/> D1- 2 <input type="checkbox"/> D1- 3 <input type="checkbox"/> D1- 4 <input type="checkbox"/>
6	Continuity		4	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Continuity between the electrode D1 and closest Earth Tag to be measured. 	Electrode 1: mΩ Electrode 2: mΩ Electrode 3: mΩ Electrode 4: mΩ
7	Joint Bay Impedance		1	<input type="checkbox"/> ok	<input type="checkbox"/> Non-conformance				<ul style="list-style-type: none"> Measure Joint Bay impedance and confirm compliant with design (refer NS116 E8 Three Terminal test) 	Design Impedance: Ω Measured Impedance: Ω

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS					<p>145 NEWCASTLE RD WALLSEND, NSW 2287</p>	SCALE	NTS		EARTHING & INSULATION COORDINATION 132kV CAST IN SITU JOINT BAY CIVIL AND ELECTRICAL WORKS EMBEDDED EARTHING ITP		
	DESIGNED		DEJAN MARKOVIC			PROJECT NUMBER	STD				
	DRAWN		RAY DEAL			PROJTRAK NUMBER					
	CHECKED		KERRI MITCHISON			SIZE	A2				
APPROVED		MICHAEL GRIFFITHS		DRAWING No	217795		SHEET	02			
DATE		31/03/17		AMD	0						
132kV CAST IN SITU JOINT BAY EMBEDDED AND ELECTRICAL EARTHING		217795/1									
ASSOCIATED DRAWINGS											