



NOTES:

- FOR CO-LOCATION SPECIFIC EARTHING DETAILS REFER TO DRAWING 017866203 SHEET 11.
- THE EXISTING GAL STRAPS TERMINATING TO THE EXISTING BOLT CAGE ARE TO BE RETAINED. THERE MAY BE MORE THAN ONE EARTH STRAP PRESENT & THESE WILL EXIST FROM AN EARTH PLATE & A CONNECTION TO THE EARTH GRID, A 35mm² G/Y CABLE SHALL ALSO EXIST TO THE EARTH GRID. IF NO FOOTING UPGRADE IS RQUIRED THE EXISTING STRAPS SHALL PASS UNDER THE NEW JACKET VIA THE GROUT LAYER, THESE EARTH STRAPS ARE TO BE WRAPPED IN DENSO TAPE IN THE AREA WHERE THE GROUT IS UTILISED. IF A FOOTING UPGRADE IS REQUIRED THE CONCRETE FOOTING MAYBE POURED OVER THE EXISTING EARTH STRAPS BUT THESE EARTH STRAPS ARE TO BE WRAPPED THE ENTIRE LENGTH OF ENCASEMENT WITH DENSO TAPE PRIOR TO POURING THE CONCRETE. THE DENSO TAPE MUST EXTEND 100mm PAST THE CONCRETE EDGE. IN BOTH SCENARIOS ISOLATION LINKS ARE REQUIRED TO BE INSTALLED IN ALL EARTH STRAPS AS PER DETAILS "A", "B" & "C". ANY EARTH CABLE PRESENT TO THE EARTH GRID FROM THE POLE EARTH STRAP IS ALSO TO BE ACCESSIBLE FOR DISCONNECTION & SHALL BE RE-LOCATED TO THE ISOLATION LINK AS PER DETAIL "A". AT EXCHANGE SITES THERE WILL BE AN EARTH CADLE FROM THE EXCHANGE SERVICE EARTH SYSTEM THEREFORE IT IS IMPERATIVE THAT THIA CABLE IS IDENTIFIED & RE-LOCATED.
- THE NEW JACKET IS TO BE EARTHED TO THE EXISTING TELSTRA EARTH GRID. DETAILS "A", "B" & "C" INDICATE THE METHOD TO BE UTILISED. BONDING IS TO BE VIA 3mm X 50mm GAL STRAP FROM THE NEW BOLT CAGE TO OVERLAY THE EXISTING EARTH STRAP PRIOR TO THE ISOLATION LINK. THE NEW JACKET SHALL BE EARTHED AT A MINIMUM OF 2 POINTS. IF ONLY ONE STRAP RADIAL EXISTS AN ADDITIONAL STRAP IS TO BE INSTALLED TO THE TELSTRA EARTH GRID AS PER DETAILS "B".
- ANY FOUNDATION MODIFICATIONS MAY INTERFERE WITH THE EXISTING TELSTRA RING EARTH & ELECTRODE SYSTEM. ANY CHANGES ARE TO BE REFERRED TO THE TELSTRA SME. A LIKE FOR LIKE BASIS IS TO BE UTILISED. ALL ELECTRODES RE-LOCATED ARE TO BE INSTALLED TO EQUIVALENT DEPTH AS THOSE REMOVED. ELECTRODE SEPARATIONS ARE TO BE MAINTAINED. ENHANCEMENTS COMPOUND UTILISED AROUND DRILLED EARTH ELECTRODES SHALL BE A CALCIUM BASED GYPSUM BENTONITE. ELECTRODES SHALL BE INSTALLED IN EITHER P1 OR P2 PITS.
- ANY EARTH JACKET INSTALLED MIDWAY OR AT THE TOP OF THE POLE IS TO BE BONDED TO THE FEB VIA A 35mm² G/Y INSULATED CONDUCTOR IN P20 CONDUIT.
- OTHER CARRIERS TO PROVIDE THEIR OWN SITE EARTH POINT AT THE BASE OF THE NEW JACKET, USE AN ADJACENT BOLT, TERMINATIONS TO BE VIA A CLEAT TO ENABLE ISOLATION.
- CADWELDING IS NOT PERMITTED ON THE TELSTRA EARTHING SYSTEM OR IT'S STRUCTURES.
- ALL CONNECTIONS TO ELECTRODES & JOINTS ARE TO BE WRAPPED IN DENSO TAPE. ALL EARTH BONDS ARE TO BE LABELLED AT BOTH ENDS IDENTIFYING THEIR OWN ORIGIN.

FOR CONSTRUCTION

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
-	CF	NS	NEW SHEET	NS	JDW	23.01.18	1

Telstra

**MOBILE NETWORK SITE
EARTHING STANDARDS**

GENERIC GREENFIELD SITE
STEEL JACKET POLE EARTHING DETAIL