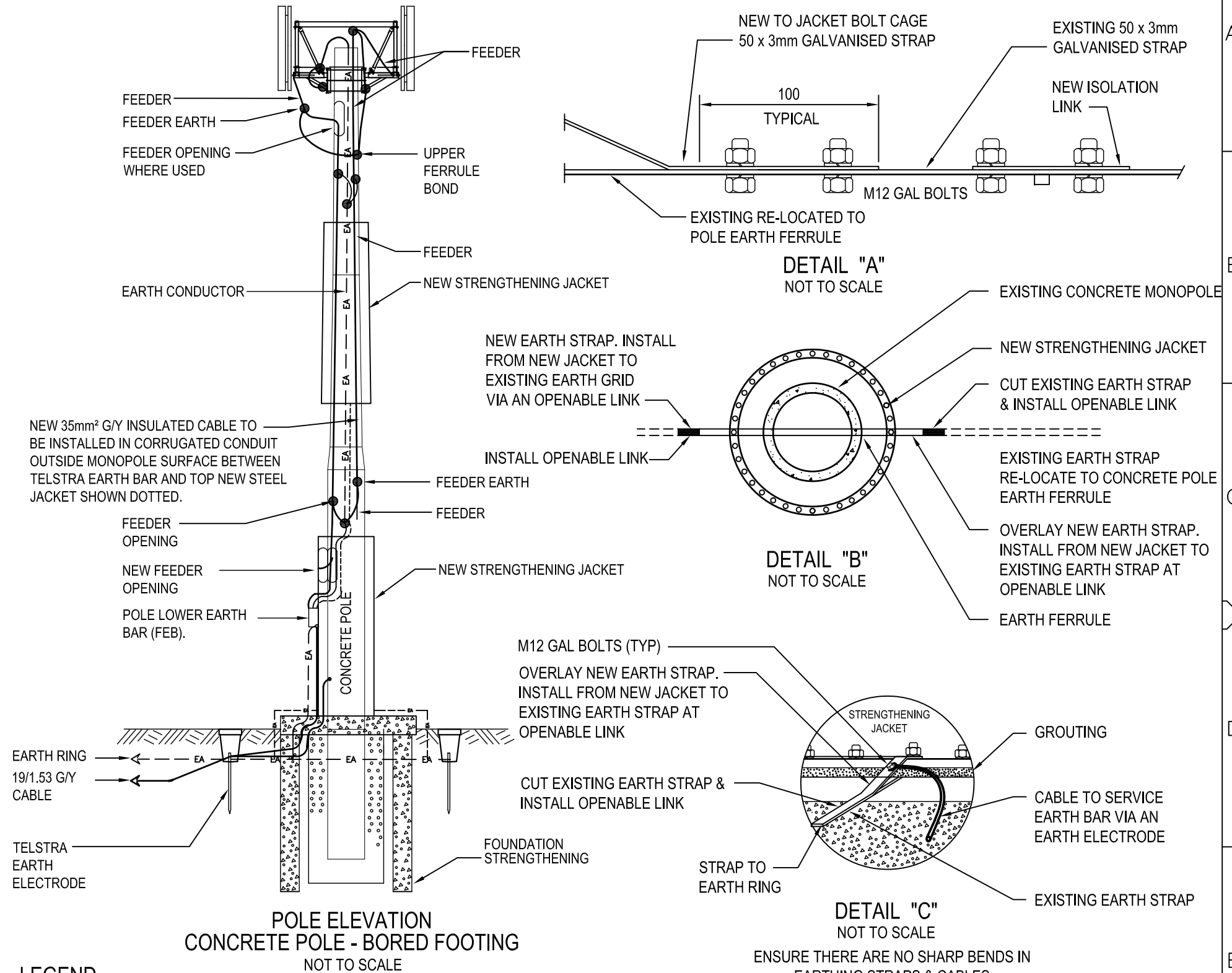


**NOTES:**

- FOR CO-LOCATING SPECIFIC EARTHING DETAILS REFER TO DRAWING 017866P203 SHEET 11.
- ALL EXISTING TELSTRA CONCRETE POLE EARTHING MAY VARY FROM SITE TO SITE. STANDARD INSTALLATIONS INCORPORATE A FEEDER EARTH BAR LOCATED AT THE LOWER FEEDER OPENINGS. A GAL EARTH STRAP AND A 35mm<sup>2</sup> G/Y CABLE TERMINATE TO THE FEB. A 35mm<sup>2</sup> G/Y TERMINATES TO THE POLE LOWER EARTH FERRULE.
- THE FEB IS TO BE RE-LOCATED FROM THE CONCRETE POLE TO BELOW THE TELSTRA FEEDER OPENING ON THE JACKET. THE FEB IS TO BE SUITABLY INSULATED. ALL LOWER FEEDER EARTHS ARE TO BE EXTENDED TO THE FEB. THE DOWNCONDUCTOR RUNS THE INTERNAL LENGTH OF THE POLE AND IS TO BE EXTENDED TO THE FEB.
- THE EXISTING GAL STRAP TERMINATING TO THE OLD FEB IS TO BE SHORTENED AND TRANSFERRED TO THE LOWER CONCRETE POLE EARTH FERRULE. AN ISOLATION LINK IS TO BE INSTALLED IN LINE WITH THIS STRAP AS PER DETAILS "A", "B" & "C". IF MORE THAN ONE STRAP RADIATES FROM THE CONCRETE POLE, THESE ARE ALSO TO BE RETAINED WITH ISOLATION LINKS INSTALLED. THE NEW JACKET SHALL BE INSTALLED OVER THE EARTH STRAPS. NO NEW CONCRETE IS TO BE PLACED OVER ANY EARTH STRAP, IF THE CONCRETE FOUNDATION IS STRENGTHENED AND RAISED ALL EARTH STRAPS ARE TO BE RE-LOCATED TO THE NEW FOUNDATION SURFACE. WHERE THE EARTH STRAPS PASS UNDER THE NEW JACKET AND GROUTING IS PROPOSED THE SECTION OF GAL STRAP IS TO BE WRAPPED IN DENSO TAPE.
- THE NEW JACKET IS TO BE EARTHED TO THE EXISTING TELSTRA EARTH GRID. DETAILS "A", "B" & "C" INDICATIVE 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".
- THE NEW FEB IS TO BE EARTHED TO THE EXISTING TELSTRA EARTH GRID AT AN EARTH ELECTRODE. INSTALL A 35mm<sup>2</sup> G/Y CABLE IN P20 CONDUIT. THE 35mm<sup>2</sup> G/Y CABLE FROM THE EARTH FERRULE POINT IS TO BE RE-LOCATED OUT TO THE JACKET EARTH STRAP AS PER DETAILS "C".
- ANY FOUNDATION MODIFICATIONS MAY INTERFERE WITH THE EXISTING TELSTRA RING EARTH AND 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 TYPE PITS.
- ANY EARTH JACKET INSTALLED MIDWAY OR AT THE TOP OF THE POLE IS TO BE BONDED TO THE FEB VIA A 35mm<sup>2</sup> 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 AND JOINTS ARE TO BE WRAPPED IN DENSO TAPE. ALL EARTH BONDS ARE TO BE LABELLED AT BOTH ENDS IDENTIFYING THEIR OWN ORIGIN.



**LEGEND**

- EARTH STRAP ——— EA ——— EA ———
- 35mm<sup>2</sup> G/Y INSULATED CABLE (19/1.53). ———

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
-	CF	NS	ORIGINAL ISSUE	NS	NS	16.01.2017	1

**FOR CONSTRUCTION**



MOBILE NETWORK SITE  
EARTHING STANDARDS  
GENERIC GREENFIELD SITE  
CONCRETE POLE EARTHING DETAIL

DWG NO. 017866P204 SHT NO. 18