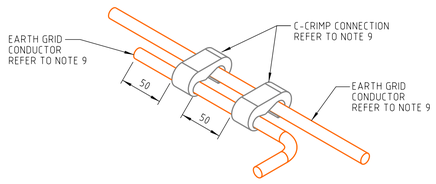
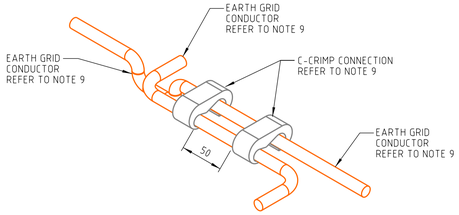
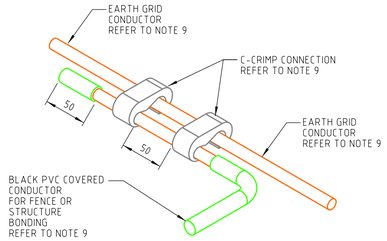


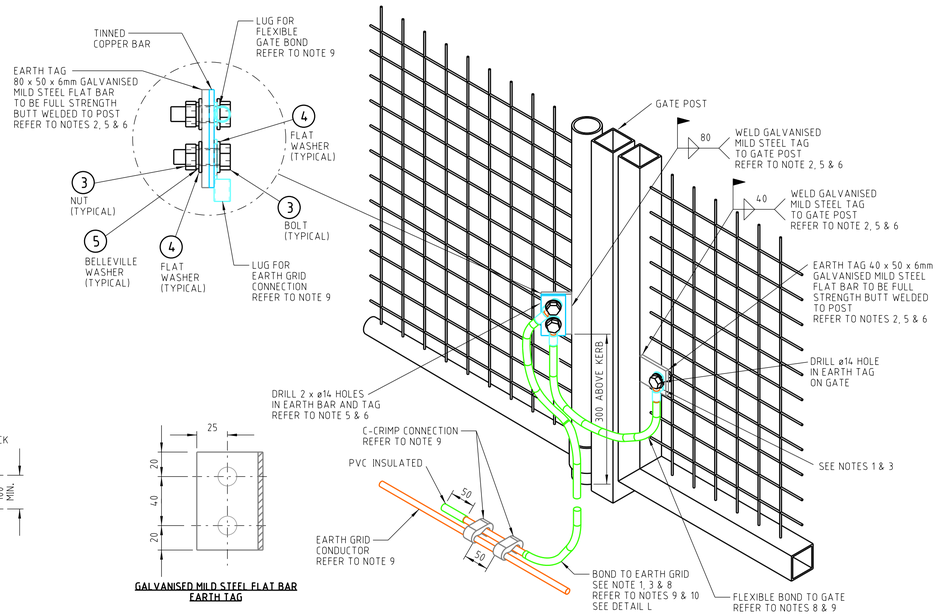
CRIMPED CONNECTION
EARTH GRID CONDUCTORS
3-WAY OR T JUNCTION
DETAIL C1



CRIMPED CONNECTION
EARTH GRID CONDUCTORS
4-WAY JUNCTION
DETAIL C2



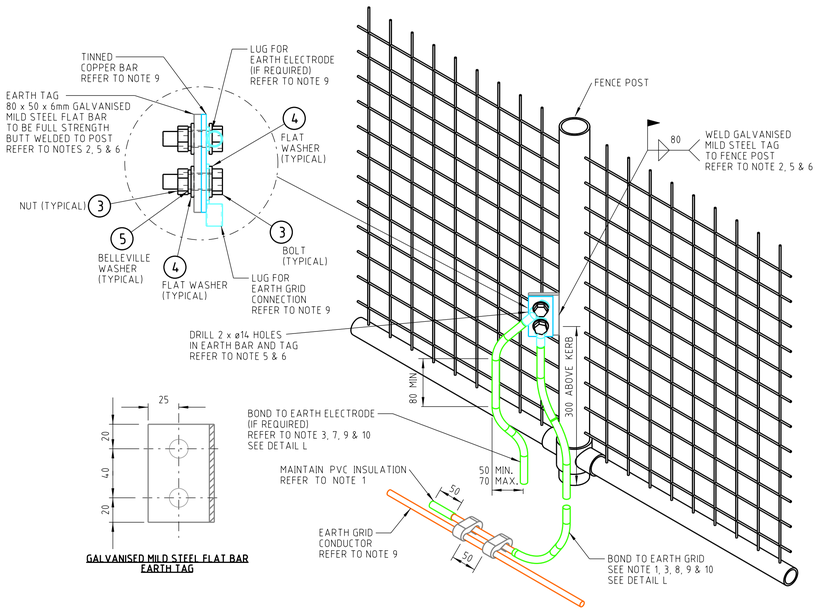
CRIMPED CONNECTION
EARTH GRID CONDUCTORS
3-WAY OR T JUNCTION
PVC COVERED TO BARE CONDUCTOR
DETAIL C3



GALVANISED MILD STEEL FLAT BAR
EARTH TAG

BONDING OF GATE POST TO EARTH GRID
DETAIL GB

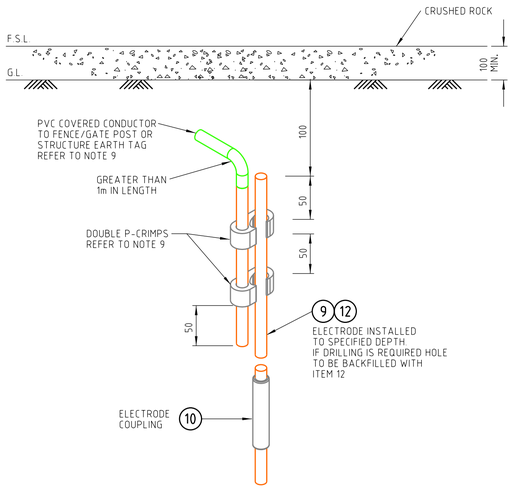
ALL BONDS TO GATE POST TO BE INSTALLED INSIDE ONLY.
NO CONDUCTOR TO BE RUN OVER KERB.



GALVANISED MILD STEEL FLAT BAR
EARTH TAG

BONDING OF FENCE POST TO EARTH GRID
DETAIL FB

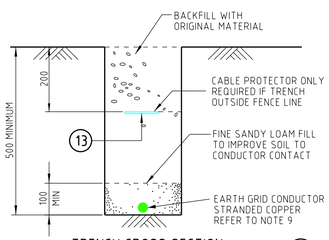
ALL BONDS TO FENCE POST TO BE INSTALLED INSIDE ONLY.
NO CONDUCTOR TO BE RUN OVER KERB.



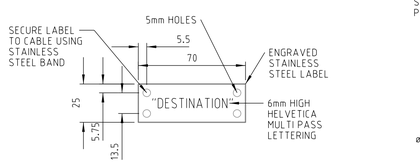
EARTH ELECTRODE
DIRECT BURIED
DETAIL BE

NOTES:

1. CONNECTION FROM EARTH GRID AND EARTH ELECTRODES TO BE INSTALLED WITH INSULATION INTACT TO INHIBIT CORROSION.
2. ALL PVC COVERED CONDUCTORS SHOULD BE PROTECTED DURING WELDING OPERATIONS.
3. ALL COMPRESSION LUGS TO BE TERMINATED USING CORRECT HEXAGONAL DIES.
4. ALL DIMENSION ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE, DIMENSIONS TAKE PRECEDENCE.
5. FENCE BONDING EARTH TAGS SHALL BE DRILLED AND WELDED TO FENCE /GATE POSTS PRIOR TO HOT DIP GALVANISING.
6. WHERE WELDING OR DRILLING IS TO BE CARRIED OUT ON SITE ALL WELDS TO BE CLEARED OF SLAG, WIRE BRUSHED AND PAINTED WITH COLD GALVANISING PAINT.
7. ALL CONNECTIONS TO EARTH TAGS TO BE CLEARLY & PERMANENTLY LABELLED WITH CABLE DESTINATION. SEE DETAIL LC
8. ENSURE THE CONDUCTOR IS THE MINIMUM LENGTH REQUIRED AND HANGS DOWNWARDS TO PREVENT UNECESSARY STRESS ON CABLE AND INHIBIT THE INGESS OF MOISTURE INTO CRIMP CONNECTIONS.
9. FOR CONDUCTOR, CRIMP & LUG SIZES REFER TO SITE SPECIFIC EARTHING DESIGN DOCUMENT.
10. REFER TO SITE SPECIFIC MOUNTING DETAILS. FOR CORRECT OPERATION OF MCKEOWN STUBBS MAINTAIN THE MINIMUM DIMENSIONS AND ENSURE CLEARANCE IN THE 300mm ROTATION ZONE.
11. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 236804 SHEET 2.

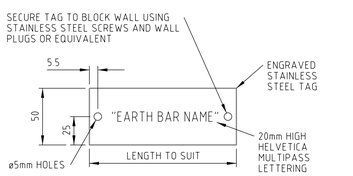


TRENCH CROSS SECTION
COVERED WITH SOIL
DETAIL TS



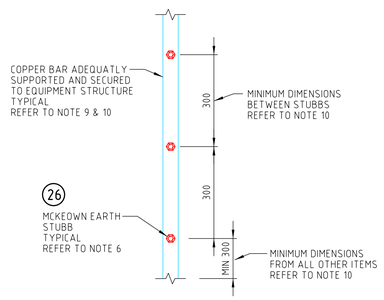
EARTH CONDUCTOR
ENGRAVED STAINLESS STEEL LABEL
DETAIL LC

ADVICE ON LABELLING NOMENCLATURE
PROVIDED ON REQUEST



EARTH BAR
ENGRAVED STAINLESS STEEL LABEL
DETAIL NP

ADVICE ON LABELLING NOMENCLATURE
PROVIDED ON REQUEST



MCKEOWN EARTH STUBBS
STANDARD MOUNTING DETAILS
DETAIL MS

REFER TO SITE SPECIFIC DESIGN FOR MOUNTING DETAILS

NETWORK STANDARD

ITEM NO.	ITEM	DESCRIPTION	SAP CODE	MANUFACTURER	STD ORDER QTY.
26	EARTH STUBB	EARTH STUBB - MC KEOWN REF DRAWING A3-520088	H108415	TAPPAT ENGINEERING	Each
13	CABLE PROTECTOR	CABLE PROTECTOR - 150mm x 20m ROLL COVER MARKED "ELECTRICAL CABLE"	151084	KEY PLASTICS ENEG151084A	20m ROLL
12	EARTHING COMPOUND	EARTHING COMPOUND - "GOOD EARTH" 15KG BAG USE AROUND ELECTRODE IN PIT	99861	FULTON INDUSTRIES AEE2/GE	Each
10	ELECTRODE COUPLING	ELECTRODE COUPLING - Ø15mm BRASS	H31649	ERICO CC58	Each
9	ELECTRODE ROD	ELECTRODE ROD - Ø15mm - 1800mm LONG ELECTROPLATED	H31631	ERICO 615860	Each
7	CONNECTOR COMPRESSION	CONNECTOR - 070mm² BURNDY STYLE YGHC CRIMP 35/70mm² RUN & 35/70mm² TAP	177942	PREFORMED LINE PRODUCTS D-OEC070	Each
5	FASTENERS WASHER	FASTENERS - WASHER - M12 BELLEVILLE STAINLESS STEEL GRADE 304	175903	JAMES GLEN 3543	100 Pk.
4	FASTENERS WASHER	FASTENERS - WASHER - M12 FLAT STAINLESS STEEL GRADE 316	49429	JAMES GLEN 4620	100 Pk.
3	FASTENERS BOLT & NUT	FASTENERS - BOLT & NUT - M12 HEX STAINLESS STEEL GRADE 316 LENGTH TO SUIT	VARIOUS	VARIOUS	N/A

MATERIALS LIST

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

ASSOCIATED DRAWINGS

Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287
Ph 02 4951 9388
Fax 02 4951 9389

SCALE	NTS
DESIGNED	AARON BULBERT
DRAWN	AARON BULBERT
CHECKED	WIM GERRITSEN
APPROVED	MICHAEL GRIFFITHS
DATE	26/11/14
PROJECT NUMBER	E&IC-NS
PROJTRAK NUMBER	

EARTHING & INSULATION COORDINATION
STANDARD CONSTRUCTION
ELECTRICAL EARTHING
GENERAL EARTHING DETAILS

SIZE	DRAWING No	SHEET	AMD
A1	236804	01	0

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