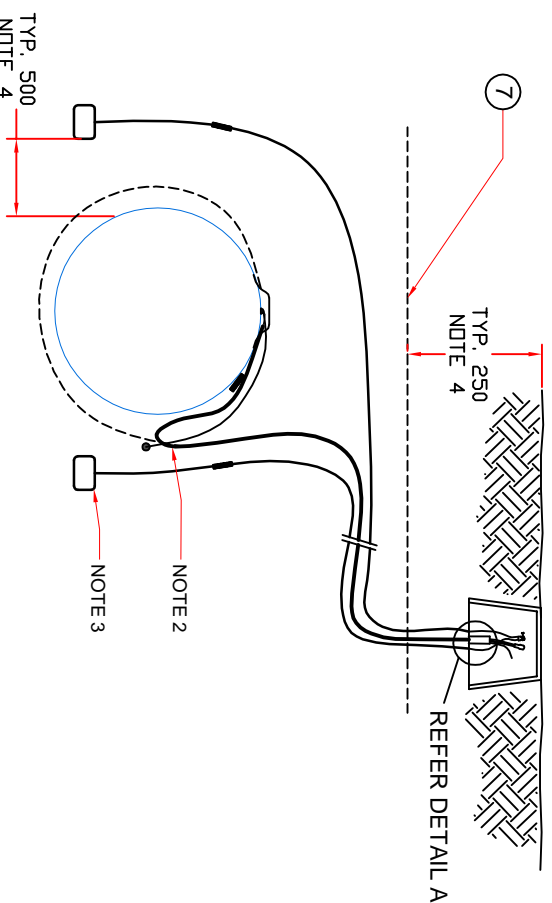
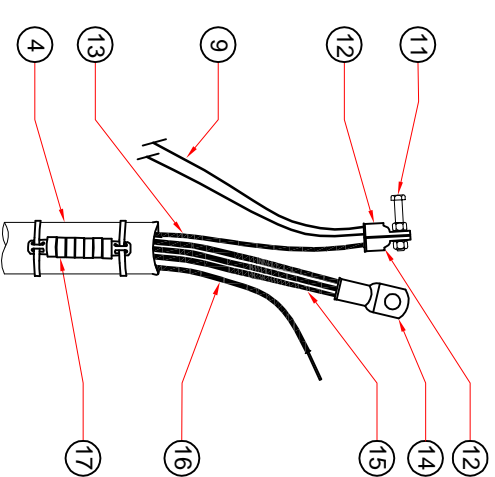


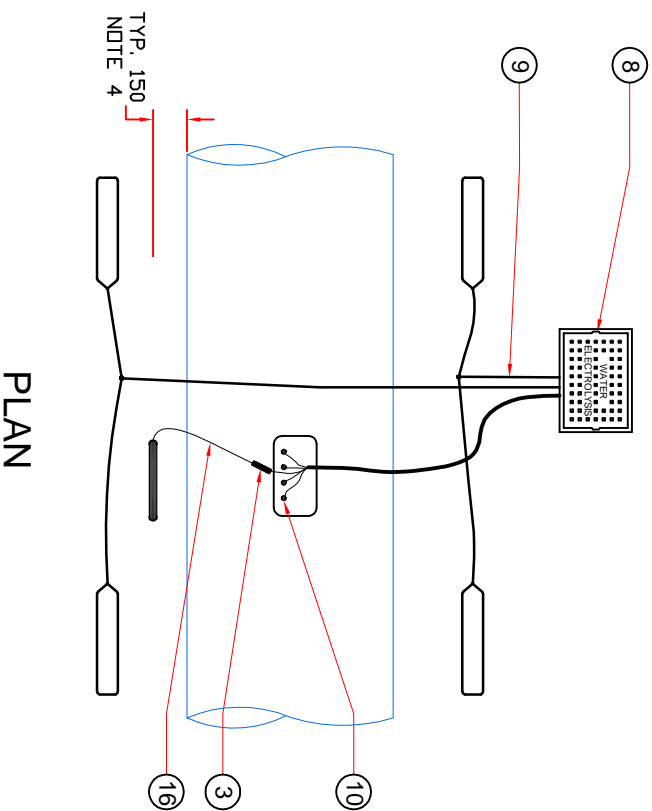
SIDE ELEVATION



SECTION (A)



DETAIL A



PLAN

ITEM No	DESCRIPTION	DETAIL
1	TEST POINT MARKER POST	TO WATER AUTHORITY REQUIREMENTS
2	MILD STEEL EARTH SPIKE	NOM. DIAMETER 38 x 450
3	COPPER CRIMP LINK	TO SUIT CABLE CROSS SECTION, SEALED WITH HEAT SHRINK SLEEVE (ACTIVATED GUE)
4	ELECTROLYSIS TEST LEAD CABLE	ORANGE CIRCULAR - 16 Sqmm PVC COPPER 4 CORE + EARTH
5	COATING REINSTATEMENT	BUTYL MASTIC FILLER & REPAIR PATCH TO MANUFACTURER'S GUIDELINES.
6	SACRIFICIAL ANODE	TYPE AND NUMBER DEPENDANT ON DESIGN REQUIREMENTS
7	ELECTRICAL UNDERGROUND MARKER TAPE	ORANGE - "DANGER BURIED ELECTRIC CABLE BELOW"
8	ELECTROLYSIS TEST POINT BOX (TREGEAR BOX)	C/W CAST IRON LID EMBOSSED "WATER ELECTROLYSIS". REFER REFERENCES
9	ANODE LEADS	6 Sqmm COPPER RED PVC
10	CABLE PIPE CONNECTION	THERMIT (GADWELD) 15 GRAM WELDING CHARGE, LEADS AT min 30MM APART
11	ANODE CABLE LUG CONNECTION	M6, 25mm, 316 STAINLESS STEEL BOLT, 2 NUTS & 2 WASHERS ADAPT ASSEMBLY TO SUIT NO OF ANODES / BOND CONNECTIONS
12	CABLE LUG	TO SUIT 16 Sqmm CONDUCTOR, 6mm HOLE
13	CABLE POTENTIAL LEAD	RED - SEE ITEM 4
14	CABLE LUG	TO SUIT 50 Sqmm CONDUCTOR, 10mm HOLE
15	CABLE CURRENT LEADS	WHITE, 'BLUE', 'BLACK' - SEE ITEM 4
16	EARTH SPIKE LEAD	'GREEN/YELLOW' - SEE ITEM 4, CORE END BARED 50mm & TINNED WITHIN TEST POINT BOX
17	CABLE IDENTIFICATION	TO WATER AUTHORITY REQUIREMENTS

NOTES

1. JOIN ANODE LEADS BENEATH SURFACE IF INDIVIDUAL CABLE LENGTHS ARE INSUFFICIENT OTHERWISE JOIN WITHIN TEST BOX.
2. SAG CABLE TO REDUCE TENSION ON CABLE PIPE CONNECTION, PREFERABLY, IF THE PIPE IS FULL Y EXPOSED RUN CABLE AROUND AND BELOW THE PIPE. TAPE CABLE TO PIPE WALL USING BUTYL TAPE (DENSOL 60) OR EQUIVALENT.
3. PLACE ANODES AT BOTTOM OF TRENCH AGAINST WALL S OF EXCAVATION OR ADJACENT TO TOP OF PIPE IF EXCAVATION DEPTHS ARE RESTRICTIVE. PROVIDE A MINIMUM CLEARANCE OF:
 - 1 METRE SEPARATION BETWEEN OTHER METALLIC SERVICES.
 - 3 METRE SEPARATION FROM EARTH SPIKE.
 - 2 METRE SEPARATION FROM PIPE FITTING & SIGNIFICANTLY DEGRADED OR DAMAGED PIPE COATINGS.
 WHERE ANODES ARE INSTALLED ON BOTH SIDES OF AN INSULATING JOINT, PLACE ANODES 2 METRES FROM OF THE INSULATING JOINT (TOTAL SEPARATION OF 4 METRES BETWEEN ANODES).
4. ALTERNATE DIMENSION TO BE APPROVED BY WATER AUTHORITY.
5. FOR A TEST POINT CONFIGURATION WITHOUT ANODES, EXCLUDE ITEMS 6, 9 AND 11.
6. ENSURE 3 METRE CLEARANCE FROM ANODES.
7. ALL DIMENSIONS SHOWN IN MILLIMETRES.

REFERENCES

- DRAWING WAT-1410 STEEL MAIN CATHODIC PROTECTION SYSTEMS PART CONSTRUCTION TEST POINT CONNECTION
- CORR-09 ELECTROLYSIS TEST POINT REQUIREMENTS: INSTALLATION, MAINTENANCE AND ABANDONMENT
- DRAWING SCP 02.03 ELECTROLYSIS TEST POINT SURROUND
- DRAWING ES-10-5 (AW DRAWING REFERENCE) LID FOR ELECTROLYSIS TEST POINT SURROUND
- DRAWING WCP-150 (WTS DRAWING REFERENCE) LID FOR ELECTROLYSIS TEST POINT SURROUND

REV	DESCRIPTION	DATE	APP'D	APPROVED	DATE
1.2	REDRAWN FROM REV 1.1 ISSUED 2004				

DESIGNED	DRAWN
WIG	J.MYRLAENEN

DESIGN CHECK	DRAFT CHECK
WATER INDUSTRY GROUP	AUG 2018

APPROVED	DATE
WIG	MAY-18

MELBOURNE WATER / MELBOURNE RETAIL WATER AGENCIES

STEEL MAIN CATHODIC PROTECTION SYSTEMS

FULL CONSTRUCTION ELECTROLYSIS TEST POINT CONNECTION

DO NOT SCALE

SCALE: NTS

DRAWING NUMBER

WAT-1411-M

SHEET OF REV