

SIDE ELEVATION

SECTION

DETAIL A

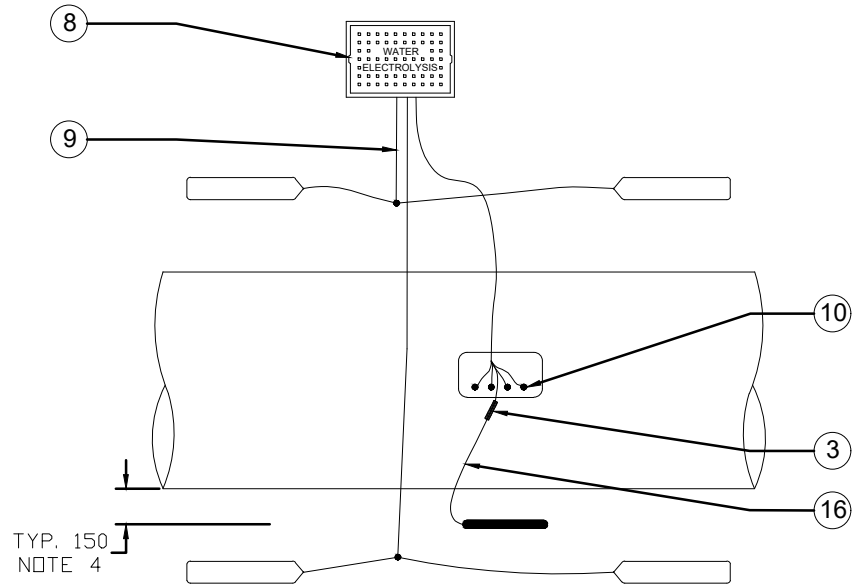
ITEM No	DESCRIPTION	DETAIL
1	TEST POINT MARKER POST	TO WATER AUTHORITY REQUIREMENTS
2	MILD STEEL EARTH SPIKE	NOM. DIAMETER 38 x 450
3	COPPER CRIMP LINK	TO SUIT CABLE CROSS SECTION, SEALED WITH HEAT SHRINK SLEEVE (ACTIVATED GLUE)
4	ELECTROLYSIS TEST LEAD CABLE	ORANGE CIRCULAR - 16 Sqmm PVC COPPER 4 CORE + EARTH
5	COATING REINSTATEMENT	BUTYL MASTIC FILLER & REPAIR PATCH TO MANUFACTURERS 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 (CADWELD 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

- JOIN ANODE LEADS BENEATH SURFACE IF INDIVIDUAL CABLE LENGTHS ARE INSUFFICIENT OTHERWISE JOIN WITHIN TEST BOX.
- SAG CABLE TO REDUCE TENSION ON CABLE PIPE CONNECTION. PREFERABLY, IF THE PIPE IS FULLY EXPOSED RUN CABLE AROUND AND BELOW THE PIPE. TAPE CABLE TO PIPE WALL USING BUTYL TAPE (DENSO 60) OR EQUIVALENT.
- PLACE ANODES AT BOTTOM OF TRENCH AGAINST WALLS 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).
- ALTERNATE DIMENSION TO BE APPROVED BY WATER AUTHORITY.
- FOR A TEST POINT CONFIGURATION WITHOUT ANODES, EXCLUDE ITEMS 6, 9 AND 11.
- ENSURE 3 METRE CLEARANCE FROM ANODES.
- 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 (MW DRAWING REFERENCE) LID FOR ELECTROLYSIS TEST POINT SURROUND
- DRAWING WCP.150 (WITS DRAWING REFERENCE) LID FOR ELECTROLYSIS TEST POINT SURROUND



PLAN

REV	DESCRIPTION	DATE	APP'D
1.3	LOGO REVISED 2021		ML
1.2	REDRAWN FROM REV 1.1 ISSUED 2004		JM

DESIGNED	WIG	DRAWN	J.MYYRLAINEN
DESIGN CHECK	WATER INDUSTRY GROUP	DRAFT CHECK	AUG 2018
APPROVED	WIG	DATE	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		1.3
SHEET	OF	REV
11	12	