

1. CONFIRM LOCATION (DEPTH AND CO-ORDINATES) AND MARK OUT OF TRENCHING
2. 7.76kV HI-POTENTIAL MAGNESIUM ANODES, SURROUNDED BY A GYPSUM BENTONITE CLAY BACKFILL IN A CLOTH BEG WITH 10m LONG BY 10mm<sup>2</sup> RED PVC/ PVC CABLE
3. THE CRITERIA FOR PROTECTION SHALL BE BASED ON PIPE TO SOIL POTENTIAL WITHIN A RANGE OF -0.850 VOLTS TO -1.050 VOLTS RELATIVE TO A COPPER-COPPER SULFATE REFERENCE ELECTRODE.
4. ENSURE THAT THE LOCATION OF THE SACRIFICIAL ANODE CORRESPOND WITH LOCATION OF THE VALVE CHAMBER OR MONITORING POINT (VCMP) OR BUNKER MONITORING POINT (BMP) SITE. INSTALLATION TO BE CROSS REFERENCED ON THE RELEVANT PIPE DRAWING OR PROJECT DRAWINGS
5. EXCAVATION PIT 1.5m DEEP AND AT MOST 2m AWAY FROM PIPELINE AS PER DRAWING REMOVE PLASTIC COVER AND PLACE AT THE BASE OF PIT AND ROUTE CABLE AS PER DRAWING.
6. TO BE REMOVED ONCE PERMANENT CP INSTALLED. EACH ANODE TO BE INSTALLED ON EITHER SIDE OF THE CHAMBER AS PER DRAWING IN A VERTICAL POSITION
7. THE CONNECTION BETWEEN THE ANODE AND THE PIPELINE MUST BE VIA THE PIPELINE MONITORING CABLE AND BOTH TO TERMINATE IN A LINK PANEL INSIDE VC OR BUNKER MP AS PER DRAWING
8. TO BE TERMINATED INSIDE CHAMBER OR BUNKER IN A LINK PANEL. OTHERWISE ANODE TO BE CONNECTED DIRECTLY TO PIPE. CABLE TO PIPE CONNECTIONS SHALL BE BY PIN BRAZING
9. THE MINIMUM AMOUNT OF COATING SHALL BE REMOVED. AFTER CONNECTING THE CABLE ENTIRE EXPOSED AREA SHALL BE ENCAPSULATED IN EPOXY
10. POSITION TO BE GPS RECORDED
11. CABLE TRENCH SHALL BE 0.6m DEEP AND THE CABLE SHALL BE ENCAPSULATED IN CONCRETE AS PER DRAWING.

[illegible]

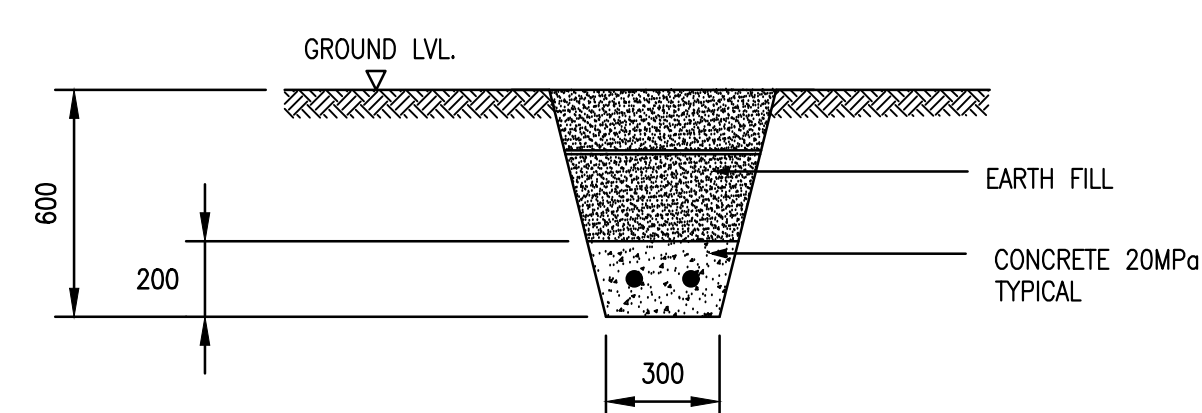
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SAP No.	P.XXXXX	CHECKED BY	T. MOFOKE
CONTRACT No.	RWXXXX/XX	D.O.M. C. TUMBARE	
DESIGNED BY	A NXUMALO	APPROVED	Pr
DRAWN BY	KS KWINDA	REG. No.	
DATE	2017-03-22	DATE	

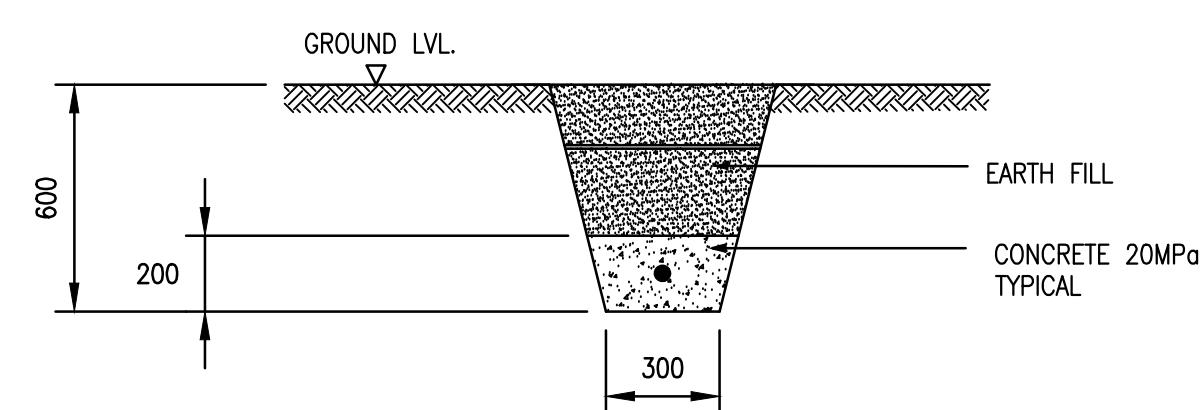
SACRIFICIAL ANODES CATHODIC  
PROTECTION INSTALLATION  
MONITORING POST

STATION			WKS										DOC. TYPE		
P	L		C	P									D	C	P
SCALE : AS SHOWN															



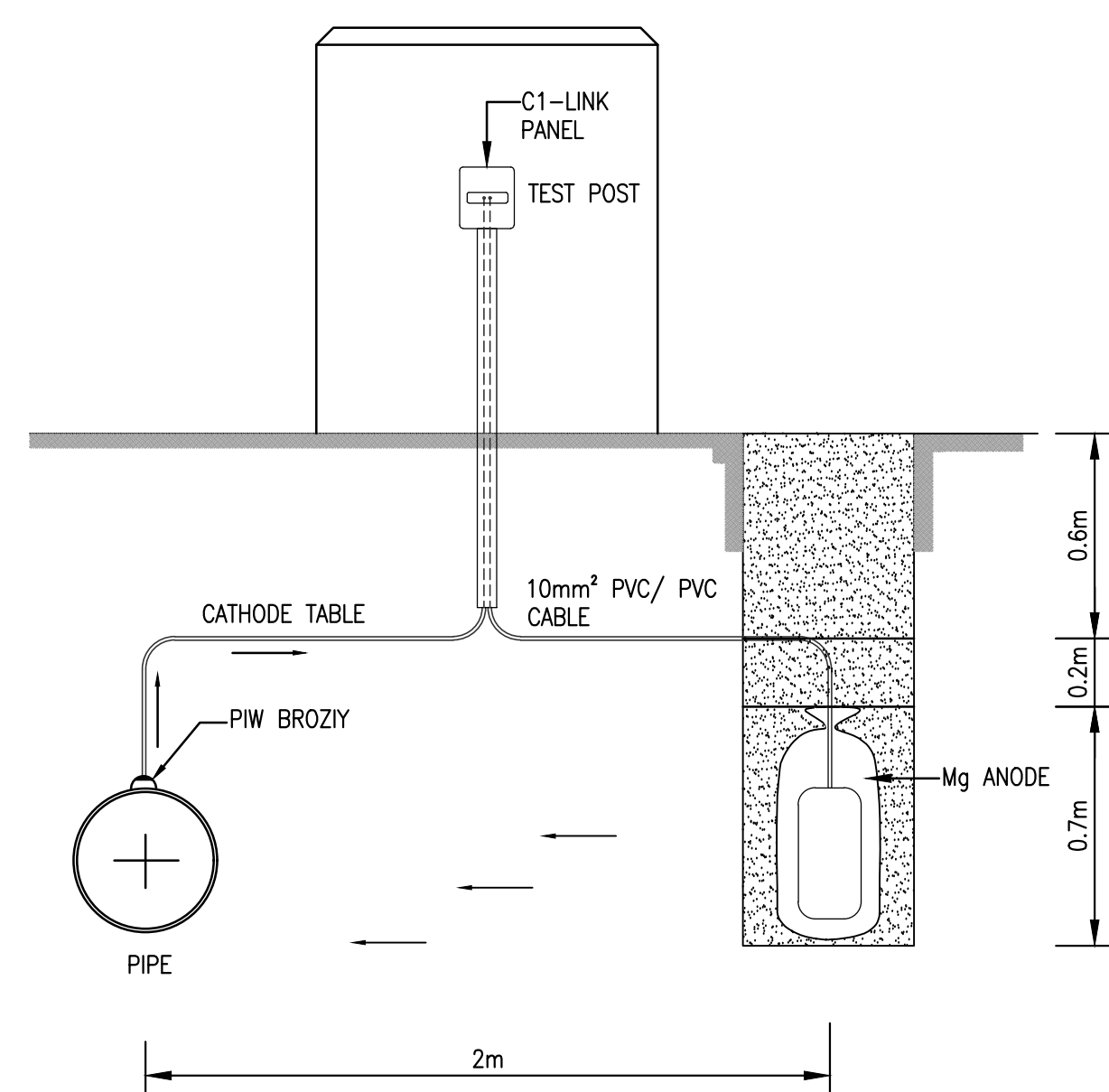
TYP. SECTION THROUGH NEGATIVE CABLE  
CONNECTION TO PIPE

SCALE 1:20

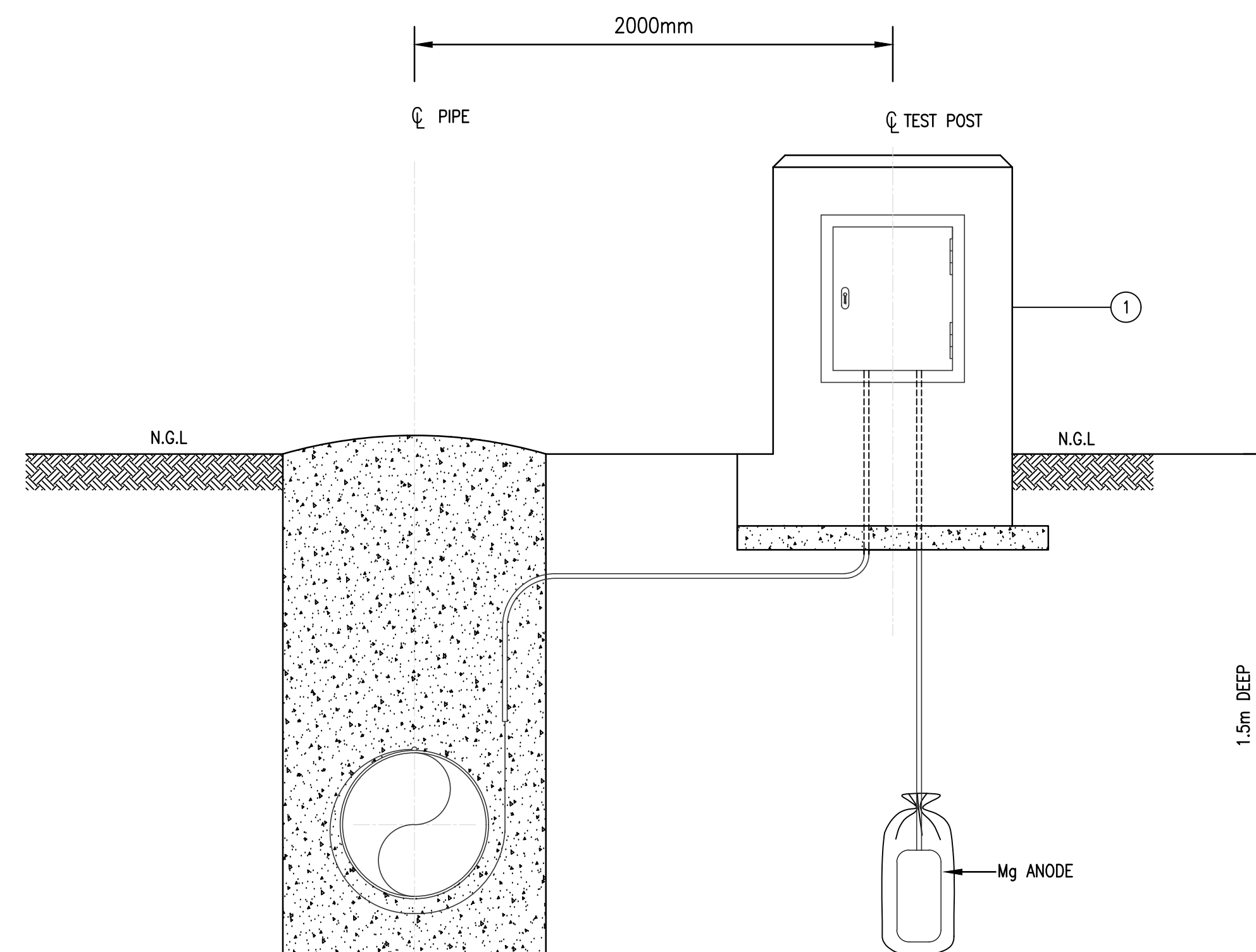


TYP. SECTION THROUGH ANODE  
CABLE TRENCH

SCALE 1:20



SIDE VIEW  
NTS



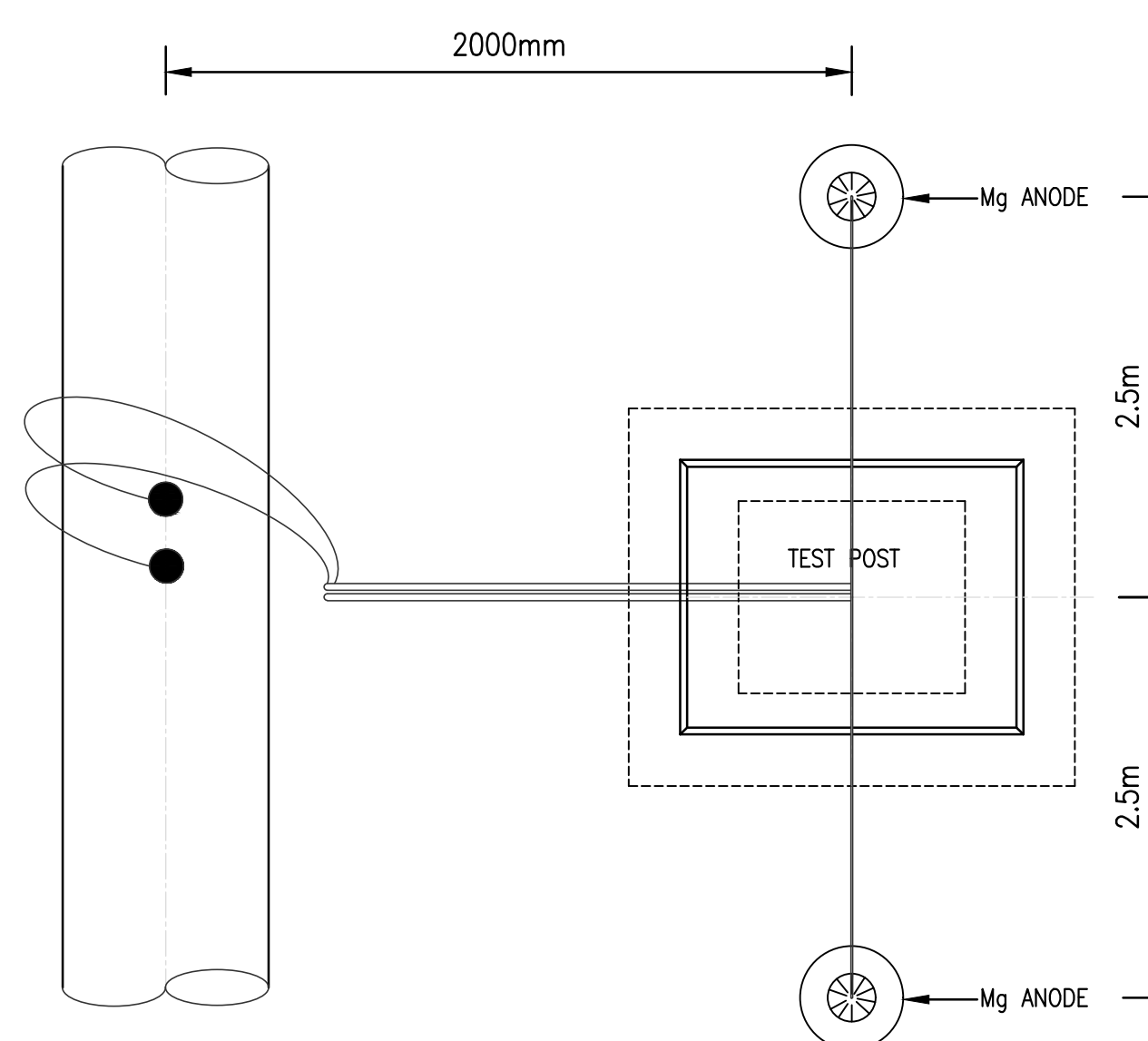
## INSTALLATION GENERAL ARRANGEMENT

VIEW LOOKING UPSTREAM

NTS

NOTE:

1. TEST POST DOOR TO FACE UPSTREAM.



PLAN VIEW

NTS