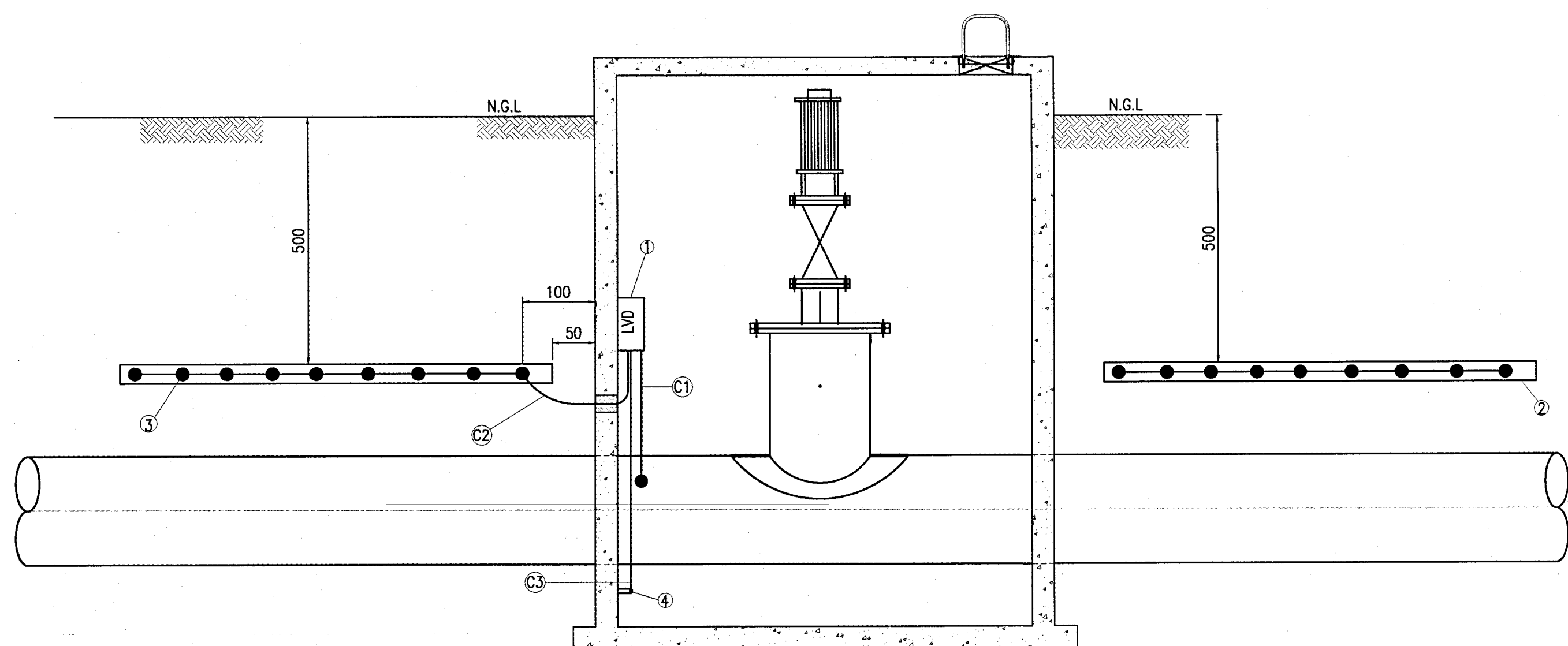
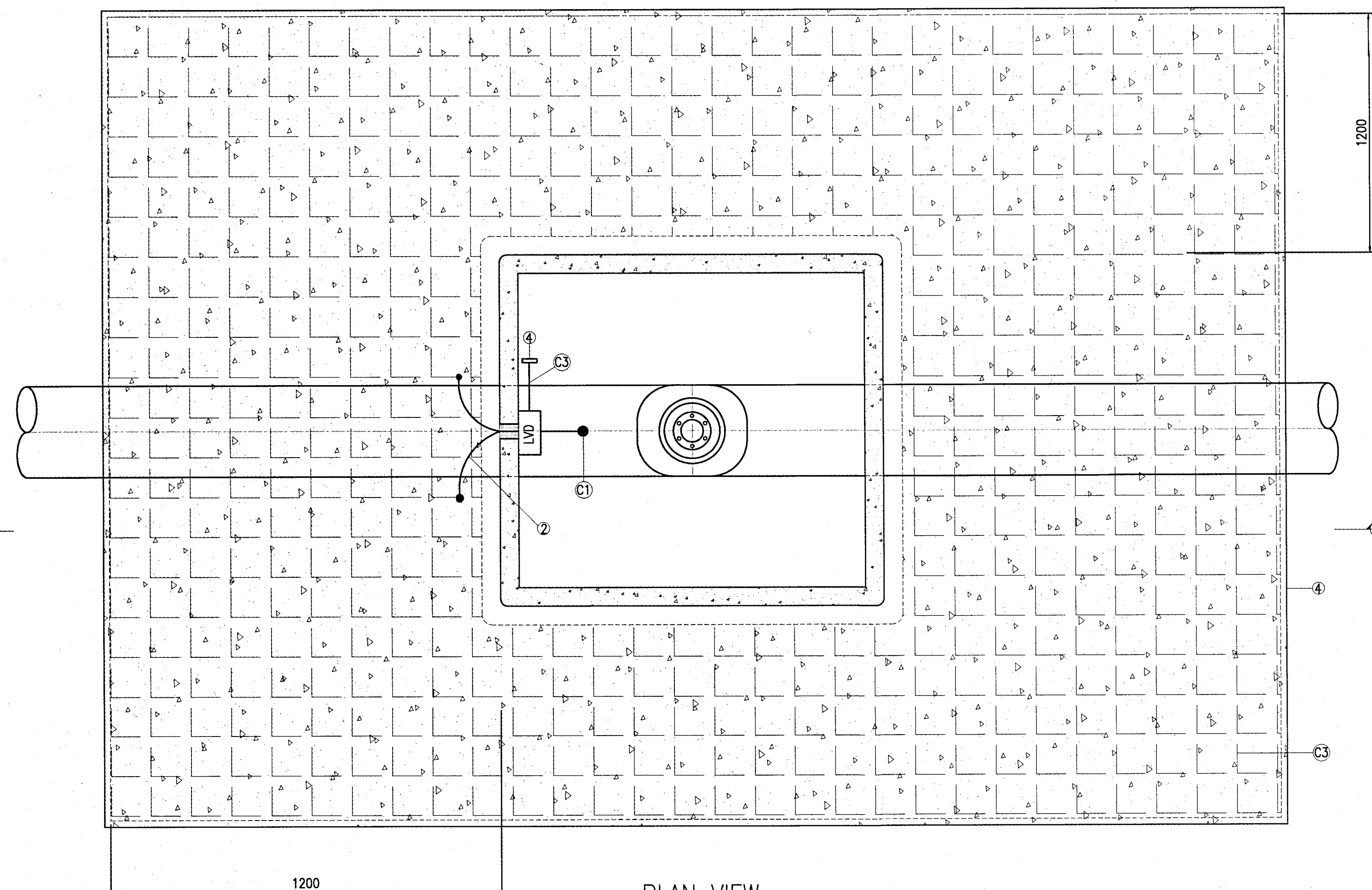


F:\Design Office\12. Pipelines Design\Standard Drawings\Cathodic Protection\FINAL DWGS 2019\Final\RA_27375.dwg | MZIMASI QOTYANA | 2019/08/22 10:40:21 AM

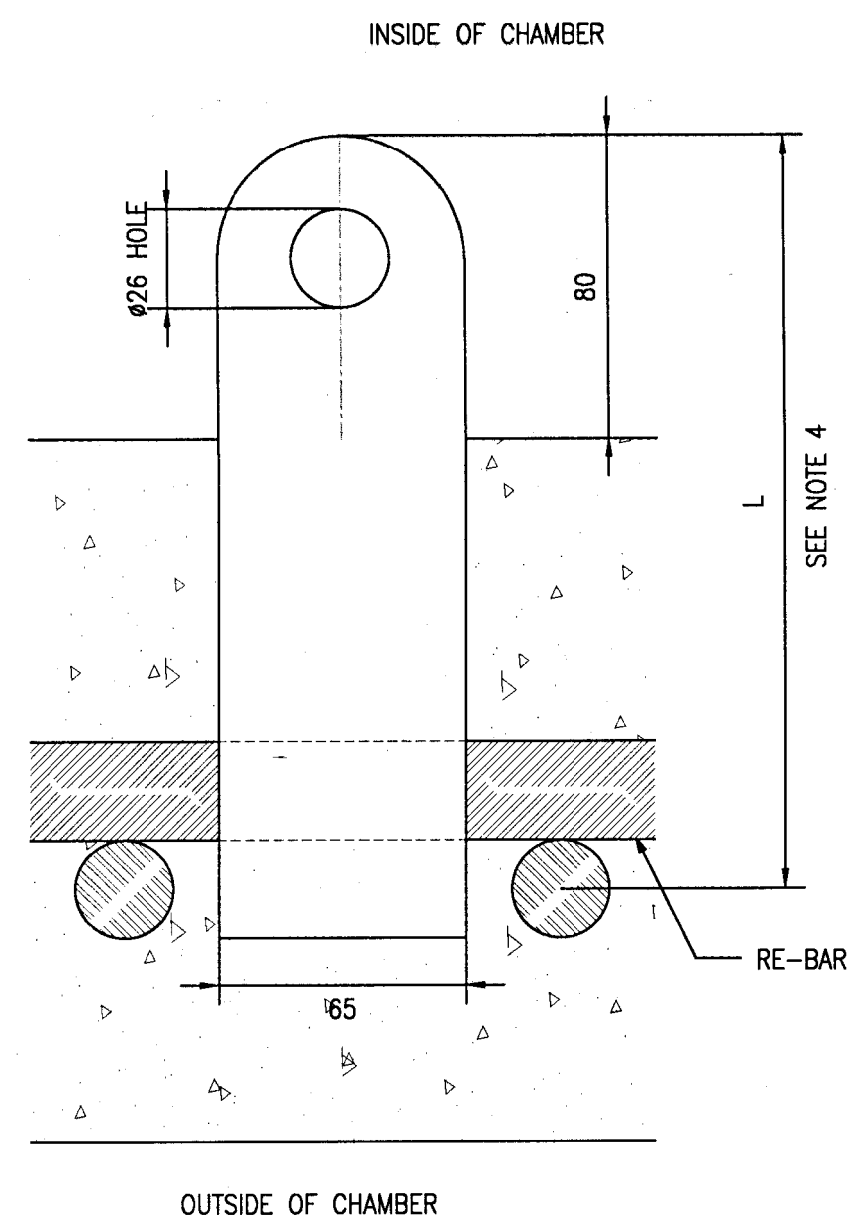


SECTION A-A
SCALE 1:50

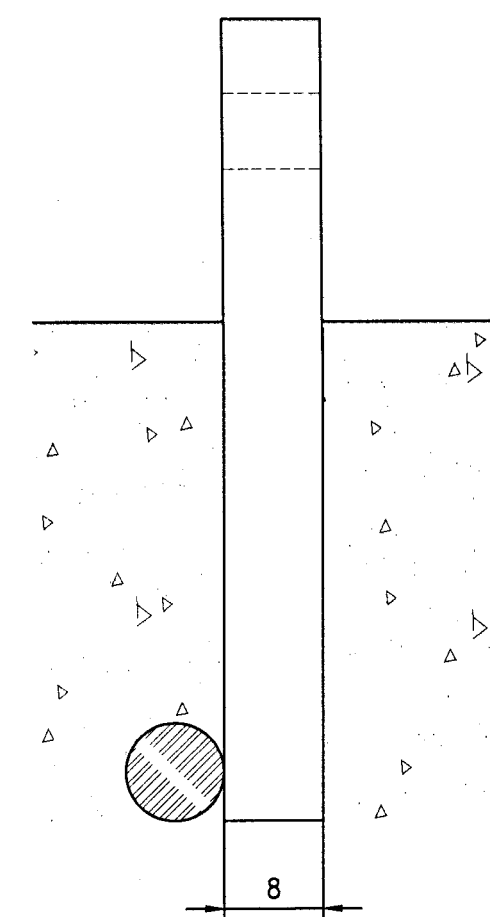


PLAN VIEW
SCALE 1:50

④ DETAILED



FRONT VIEW
SCALE 1:2



SIDE VIEW
SCALE 1:2

MATERIALS LIST

ITEM	QTY.	DESCRIPTION	MATERIAL / REFERENCE
1	1	RE-BAR CONNECTING PLATE	STAINLESS STEEL

1. PLATE TO BE CONNECTED TO REBAR / WELD MESH BY WELDING.
2. PLATE MUST PROTRUDE 80mm FROM CONCRETE.
3. PLATE TO BE POSITIONED IN CLOSE PROXIMITY TO PIPE.
4. LENGTH TO BE CONFIRMED ON SITE, WILL DEPEND ON CHAMBER WALL THICKNESS AND REBAR LOCATION.

MATERIALS LIST

ITEM	QTY.	DESCRIPTION	MATERIAL / REFERENCE
1	1	VOLTAGE LIMITING DEVICE	INSTALLED INSIDE JUNCTION
2	AS REQ'D	CONCRETE ENCASEMENT FOR EXTERNAL GRADIENT MAT (100mm THK.)	CAST IN-SITU
3	AS REQ'D	EXTERNAL GRADIENT MAT	200x200x6mm ϕ STEEL WELD MESH, NOT GALVANIZED
4	1	RE-BAR CONNECTING PLATE	STEEL

CABLE SCHEDULE & MATERIAL DESCRIPTION

ITEM	QTY.	LENGTH OF EACH	CABLE SERVICE	CABLE DESCRIPTION				MATERIAL	
				CORE mm ²	CORE QTY.	STRAND TYPE	COLOUR	CORE	INSULATION
C1	2	AS REQ'D	PIPE CONNECTION	16	1	MULTI	BLACK	COPPER	PVC/PVC
C2	2	AS REQ'D	EXTERNAL GRADIENT MAT	16	1	MULTI	BLACK/GREEN	COPPER	PVC/PVC
C3	2	AS REQ'D	RE-BAR CONNECTION	16	1	MULTI	BLACK/GREEN	COPPER	PVC/PVC

DRG No. RA_27375

NOTES:

1. REFER TO RELEVANT CHAMBER DRAWING FOR DIMENSIONS AND REBAR POSITIONS;
2. THESE CATHODIC PROTECTION DRAWINGS MUST BE READ IN CONJUNCTION WITH THE LATEST REVISION OF THE CATHODIC PROTECTION SPECIFICATION TOGETHER WITH THE LATEST PIPELINE SPECIFICATION;
4. THE CATHODIC PROTECTION DRAWINGS MUST BE READ IN CONJUNCTION WITH THE APPLICABLE PIPELINE PLAN AND SECTIONS;
5. CATHODIC PROTECTION INFRASTRUCTURE MUST BE INSTALLED WITHIN THE SERVITUDE OR AS PER ENGINEER INSTRUCTIONS.

REVISIONS

No	DATE	CHECKED	APPROVED	DESCRIPTION

REFERENCE DRAWINGS

NUMBER	TITLE



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SAP No.	CHECKED BY
CONTRACT No.	D.O.M. c. TUMBARE
DESIGNED BY	X. BUTHELEZI
DRAWN BY	M. QOTYANA
DATE	2019-07-31
APPROVED	200674011
REG. No.	23/05/2019
DATE	23/05/2019

RAND WATER
STANDARD DRAWING

CATHODIC PROTECTION EXTERNAL
EARTH MAT INSTALLATION

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

DRG No. RA_27375

REVISION
0