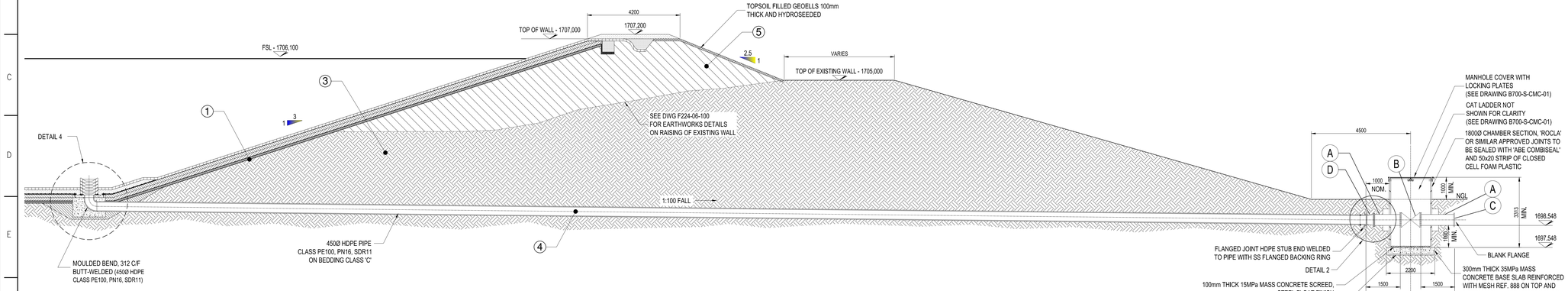
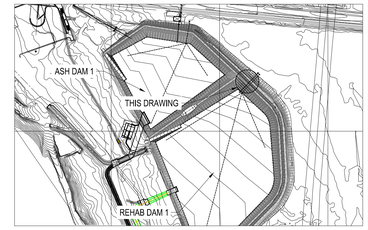


TYPICAL SECTION THROUGH PENSTOCK OUTLET PIPE
1:75



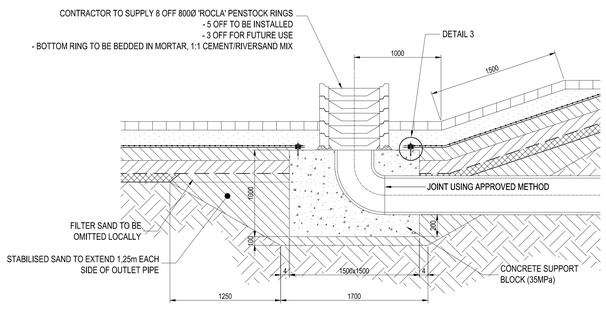
KEY PLAN
1:25000

CONSTRUCTION NOTES

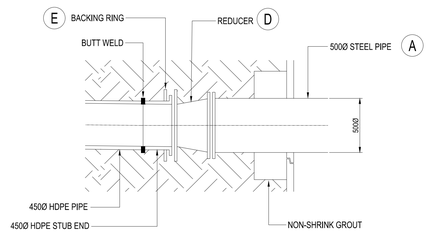
PENSTOCK OUTLET PIPE	
1	CLEAR AND GRUB. REMOVE ASH, ASH RESIDUE AND SILT FROM DAM BASIN AND SIDESLOPES AS WELL AS RIPRAP FROM DAM SIDESLOPES
3	EXCAVATE THROUGH EXISTING WALL FOR PENSTOCK OUTLET PIPE AND SUBSOIL DRAINAGE PIPE. EXCAVATE TRENCH THROUGH WALL AT 1:1.5 SIDE SLOPE.
4	SUPPLY AND INSTALL PIPES ON CLASS C BEDDING AND CONSTRUCT ASSOCIATED WORKS.
5	EMBANKENT FILL - SELECTED MATERIAL FROM EXCAVATION OR BORROW, IN 150mm THICK LAYERS COMPACTED TO 95% MOD. AASHTO AT MC -2 TO +2% OMC.

GEOTEXTILE LEGEND

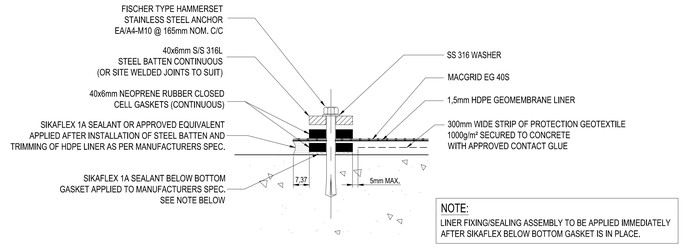
- GRI-GT13 CLASS 2 SEPARATION GEOTEXTILE
- GRI-GT12b PROTECTION GEOTEXTILE 1000g/m²
- ALL SEAMS TO BE STITCHED



DETAIL 4
1:25

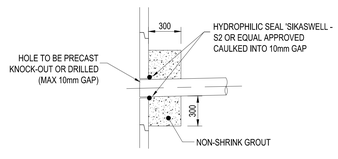


DETAIL 2
1:20



NOTE:
LINER FIXING/SEALING ASSEMBLY TO BE APPLIED IMMEDIATELY AFTER SIKAFLEX BELOW BOTTOM GASKET IS IN PLACE.

DETAIL 3
1:2



MANHOLE PENETRATION DETAIL
1:20

FOR CONSTRUCTION

STEEL PIPING NOTES

A. PIPES TO BE GRADE B, TO SANS 719, 4,5mm WALL THICKNESS
FLANGED TO SABS 1123, TABLE 1000/3
B. GASKETS TO BE 3mm COMPRESSED NON ASBESTOS FIBRE-RING GASKETS
C. PIPES TO BE COATED INTERNALLY AND WHERE EXPOSED EXTERNALLY WITH COPON EP 2300 AS PER SPEC. (TO BE CONFIRMED)

MATERIAL LIST FOR STEEL PIPELINE

ITEM	QTY.	SIZE	LENGTH	MATERIAL	DESCRIPTION	REMARKS
A	2	500 NB	1500 F/F	MS	FLANGED ON BOTH ENDS	HOT DIPPED GALVANIZED - DENSO TAPE WRAPPED
B	1	500 NB	-		GATE VALVE (WEDGE) PN16	
C	1	500 NB	-	MS	BLANK FLANGE	HOT DIPPED GALVANIZED - DENSO TAPE WRAPPED
D	1	450 NB/500 NB	-	MS	450 NB/500 NB REDUCER	HOT DIPPED GALVANIZED - DENSO TAPE WRAPPED
E	1	450 NB	-	MS	FLANGED BACKING RING	HOT DIPPED GALVANIZED - DENSO TAPE WRAPPED

D.O.	REV	DATE	
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00	0	12.10.21	ISSUED FOR CONSTRUCTION
			** REVISION **
			INDEX REFERENCE : .

REV BY	CHKD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS	
.	.	.	.	B700-S-CMC-01	STORM WATER MANAGEMENT CAT LADDER AND MANHOLE COVER DETAILS
.	.	.	.	F224-06-106	POLLUTION CONTROL DAMS REHAB DAM 1 - OUTLET, SECTIONS AND DETAILS
.	.	.	.	B700-C-AD1-01	POLLUTION CONTROL DAMS ASH DAM 1 - SECTIONS AND DETAILS
JW	PS	AVDM	.	F224-06-001	POLLUTION CONTROL DAMS ASH DAM 1 - SECTIONS AND DETAILS

DRG REGISTR	.	.	AUTHORISED FOR ESKOM BY
DSGN APPRVD	.	.	.
KKS APP	.	.	-
D.O. AUTH	.	.	-
CHKD BY	PS	12.10.21	
DRAWN BY	JW	12.10.21	
SCALE	AS SHOWN		

DATE: . .

BEAL AFRICA (PTY) LTD (PRETORIA OFFICE)
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Building 9B unit B1U
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Eskom

ESKOM HOLDINGS SOC Ltd.
MAJUBA POWER STATION
EXTENSION OF ASH DISPOSAL FACILITY
POLLUTION CONTROL DAMS
REHAB DAM 1 - OUTLET, SECTIONS AND DETAILS

B700- C -RD1-04

SPF CODE	SHEET	REV
.	1	0

SIZE GROOTTE A0L