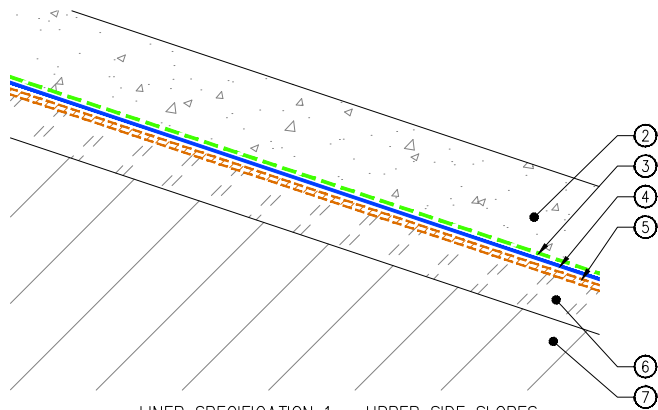
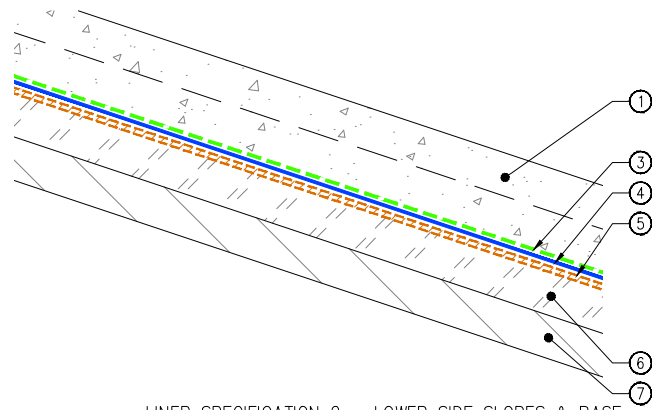
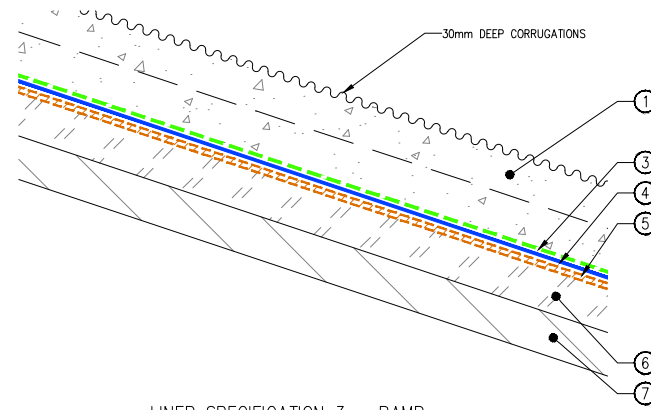




LINER SPECIFICATION 1 – UPPER SIDE SLOPES
1:10



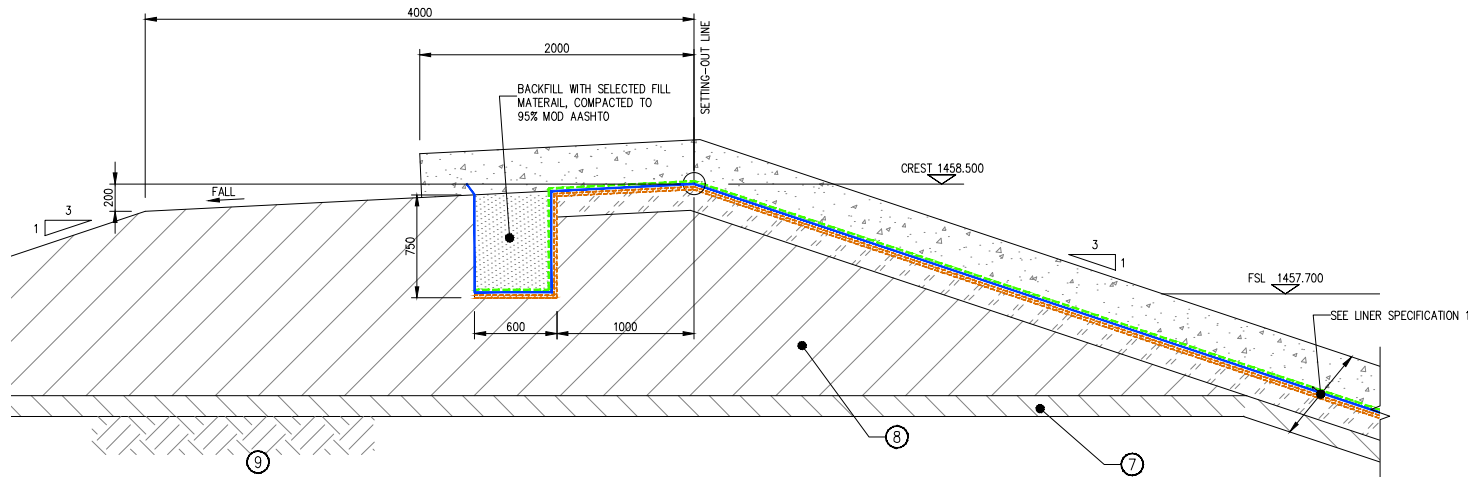
LINER SPECIFICATION 2 – LOWER SIDE SLOPES & BASE
1:10



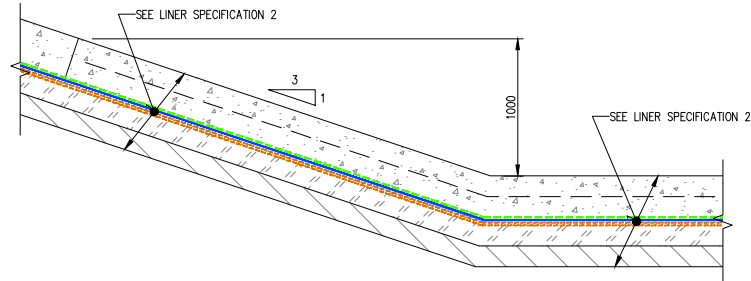
LINER SPECIFICATION 3 – RAMP
1:10

LINER SPECIFICATION	
LAYER	DESCRIPTION
1	300mm THICK 35MPa CONCRETE SLAB ON BASE AND UP TO 1.0m HEIGHT ON SIDE SLOPES, REINFORCED WITH ONE LAYER MESH REF. 395
2	300mm THICK 25MPa CONCRETE ON SIDE SLOPES ABOVE 1.0m HEIGHT
3	1000g/m ² PROTECTION GEOTEXTILE TO GRI- GT12 SPECIFICATION
4	2mm MONO-TEXTURED GEOMEMBRANE TO GRI-GM13 SPECIFICATION, WITH TEXTURE FACING DOWNWARDS
5	3,7kg/m ² GCL TO GRI-GCL 3 SPECIFICATION
6	150mm LAYER OF CLAYEY SOIL COMPACTED TO 100% MOD PROCTOR AT MC 0% TO +2%, OR 93% MOD AASHTO TO SUIT SOIL TYPE
7	BASE PREPARATION LAYER: RIP AND RE-COMPACT TO 100% MOD PROCTOR AT MC 0% TO +2%, OR 93% MOD AASHTO TO SUIT SOIL TYPE
8	SELECTED FILL MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK TO 95% MOD AASHTO
9	INCOMPETENT MATERIAL TO BE REPLACED TO A DEPTH OF 600mm WHERE DIRECTED BY ENGINEER ON SITE, COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK TO 95% MOD AASHTO

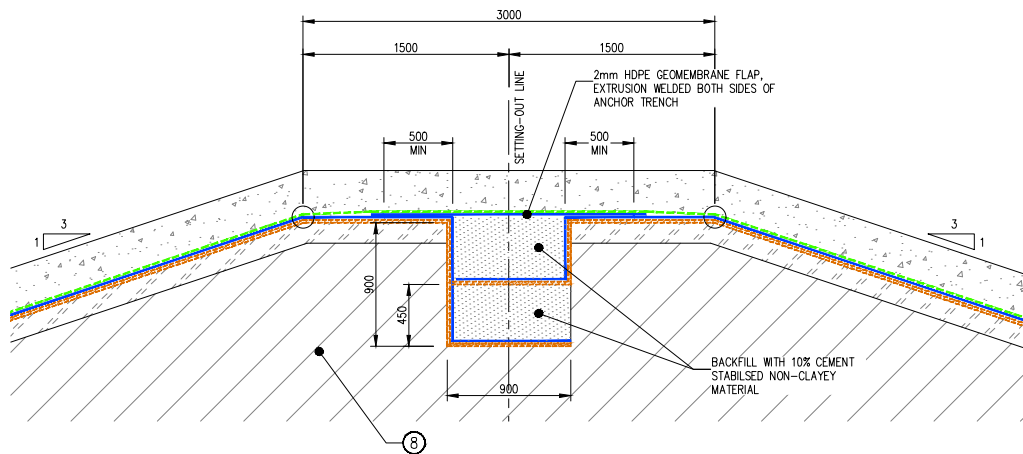
- NOTES:
- CONCRETE PANELS TO BE CAST ALTERNATELY, NOT EXCEEDING 36m²
 - PANEL JOINTS TO BE SEALED WITH POLYSULPHIDE SEALANT



DETAIL OF OUTER DAM WALL WITH LINER ANCHOR TRENCH
1:20



BASE SLAB DETAIL
1:20



DETAIL OF SEPERATION BERM WITH LINER ANCHOR TRENCH
1:20

LINER SYSTEM DETAILED DRAWING

60YR ADF SCOPE LEGEND				KKS	PBS: 00UEQ01	D.O. REV		DATE	INDEX REFERENCE :	REV	CHG	BY	APP	REFERENCE	DATE	REFERENCE DRAWINGS			
NAME	LABEL			ASH DISPOSAL FACILITY			D.O. REV		DATE	INDEX REFERENCE :	REV	CHG	BY	APP	REFERENCE	DATE	REFERENCE DRAWINGS		
NOTES: COORDINATE SYSTEM: L029 WGS-84				DESIGN APPROVED		28	11	23	KPM	APPROVED		28	11	23	KPM	DATE		KUSILE POWER STATION ASH DISPOSAL FACILITY PCD 1A DETAILS	
				AUTH BY		26	11	23	KPM	AUTH BY		26	11	23	KPM	REG. No.			ESKOM HOLDINGS LTD. 2009/090227/06
				DRAWN BY		10	23	RS	DRAWN BY		10	23	RS	ESKOM					
				SCALE		1:500		ESKOM		366-511855									
				SHEET		1		REV		0.1									