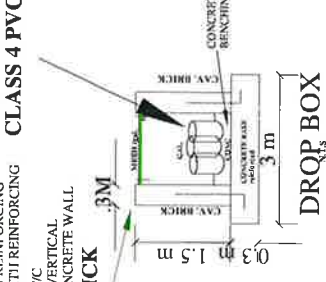
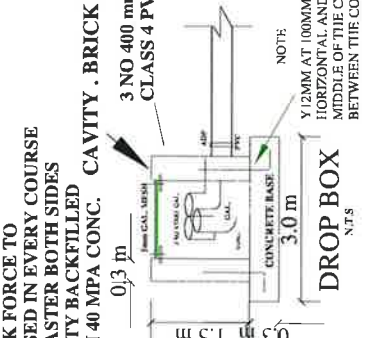


NOTE:
CAVITY WALL WITH REINFORCING
CONCRETE BASE WITH REINFORCING
Y 12MM AT 100MM CC
HORIZONTAL AND VERTICAL
MIDDLE OF THE CONCRETE WALL
CAVITY - BRICK



NOTE
BRICK FORCE TO
BE USED IN EVERY COURSE
& PLASTER BOTH SIDES
CAVITY BACKFILLED
WITH 40 MPA CONC. CAVITY - BRICK

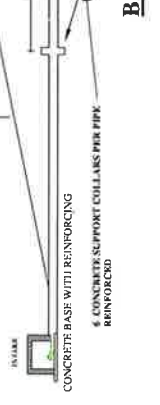


NOTE

CREST LEVEL R.L = 99.50
FULL SUPPLY LEVEL R.L = 97.00

NOTE

wall slope downstream
1:2
wall slope upstream 1:3

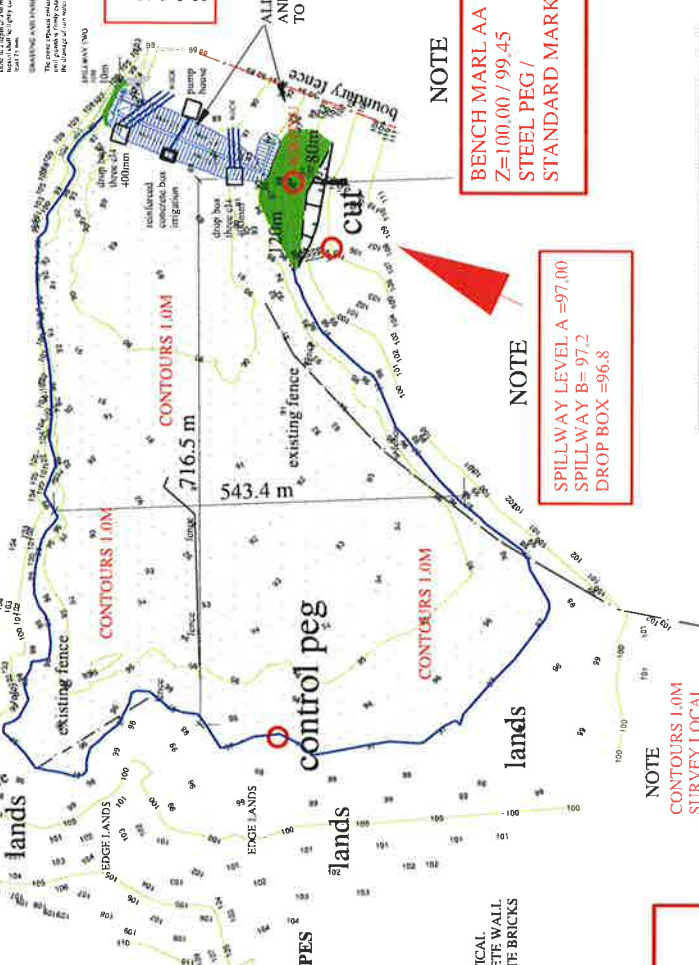


BASIC SECTION DETAILS // NEW WALL
NOT TO SCALE

NOTE

DAM WALL CO-ORDINATES
SOUTH 29 DEG 52 MIN 31 SEC
EAST 29 DEG 30 MIN 07 SEC

SURFACE AREA 37.5 HA
WATER DEPTH AT THE
7.5/8.0 M



NOTE

SPILLWAY LEVEL A = 97.00
SPILLWAY B = 97.2
DROP BOX = 96.8

NOTE

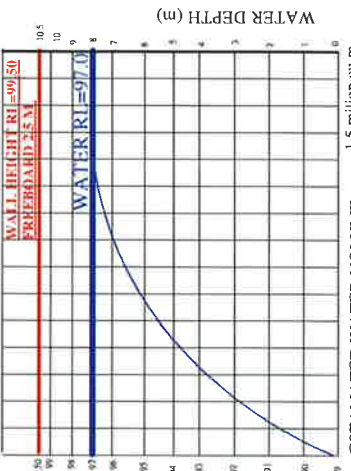
BENCH MARLAA
Z=100.00 / 99.45
STEEL PEG /
STANDARD MARKER

NOTE

PRELIMINARY DESIGN
RUN OFF MAPS
1:50 000 MAPS
29 29 CD UNDERBERG
29 29 DC PEVENCY

DAM CO-ORDINATES	
SOUTH 29 DEG 52 MIN 31 SEC	
EAST 29 DEG 30 MIN 07 SEC	
EMBANKMENT HEIGHT	183.5 M
EMBANKMENT LENGTH	2292.34
CREST WIDTH	3.0m / 3.3 m
RELATIONS	97.00
PILL SUPPLY LEVEL (R.L)	96.50
DAM WALL CREST LEVEL (R.L)	99.50
VOLUMES	55 100 cu.m
EMBANKMENT VOLUME	1.5 million cu.m
RELIEF DAM STORAGE	37.5 HA
AREA	716.5 LING
DAM SURFACE AREA	545 WIDE
SPILLWAY DIMENSION	100 m / 130m
SPILLWAY A	10 X
SPILLWAY B (upstream)	97.00
SPILLWAY LEVEL A (R.L)	97.2
SPILLWAY LEVEL B (R.L)	97.0
TOTAL WALL FREEBOARD	2.5 / 2.7 M
NORMAL FLOW OUTLETS	96.80
DRAINAGE / TWO	300 MM C/S
DROP BOX LEVEL (R.L)	through the wall
IRRIGATION	66 m / length
PIPE DIAMETER	400 mm dia
PIPE LENGTH	25000000
DESIGN	1:100 flood
CATCHMENT AREA 30 / KM	LONGEST WATER COURSE
DESIGN	25 km

ESTAMATED WATER VOLUME
1.5 million cu.m
NOT TO SCALE



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REVISIONS
NO. DESCRIPTION DATE BY
1. Initial Design 10/10/2023 J.K.
2. Final Design 11/10/2023 J.K.
3. Construction Drawings 12/10/2023 J.K.

GENERAL NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE DAM WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS.
3. THE DAM WALL SHALL BE CONSTRUCTED WITH A MINIMUM OF 1.5M FREEBOARD.
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