



BRIDGE SET LINE SETTING OUT CO-ORDINATES			
Point & Str. Element	Y Co-ordinate	X Co-ordinate	
SET LINE	SL - 1	1989.764	3287876.781
	SL - 2	1987.160	3287888.325
	SL - 3	1983.944	3287865.046

NOTE :

ALL SET-LINE CO-ORDINATES TO BE CONFIRMED
ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.

BRIDGE CENTERLINE SETTING OUT CO-ORDINATES			
Point & Str. Element	Y Co-ordinate	X Co-ordinate	
BRIDGE	CL - 1	1973.019	3287885.135
	CL - 2	1955.703	3287881.230
	CL - 3	1938.388	3287877.325

NOTE :

ALL CENTERLINE CO-ORDINATES TO BE CONFIRMED
ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.



LOCALITY LAYOUT PLAN

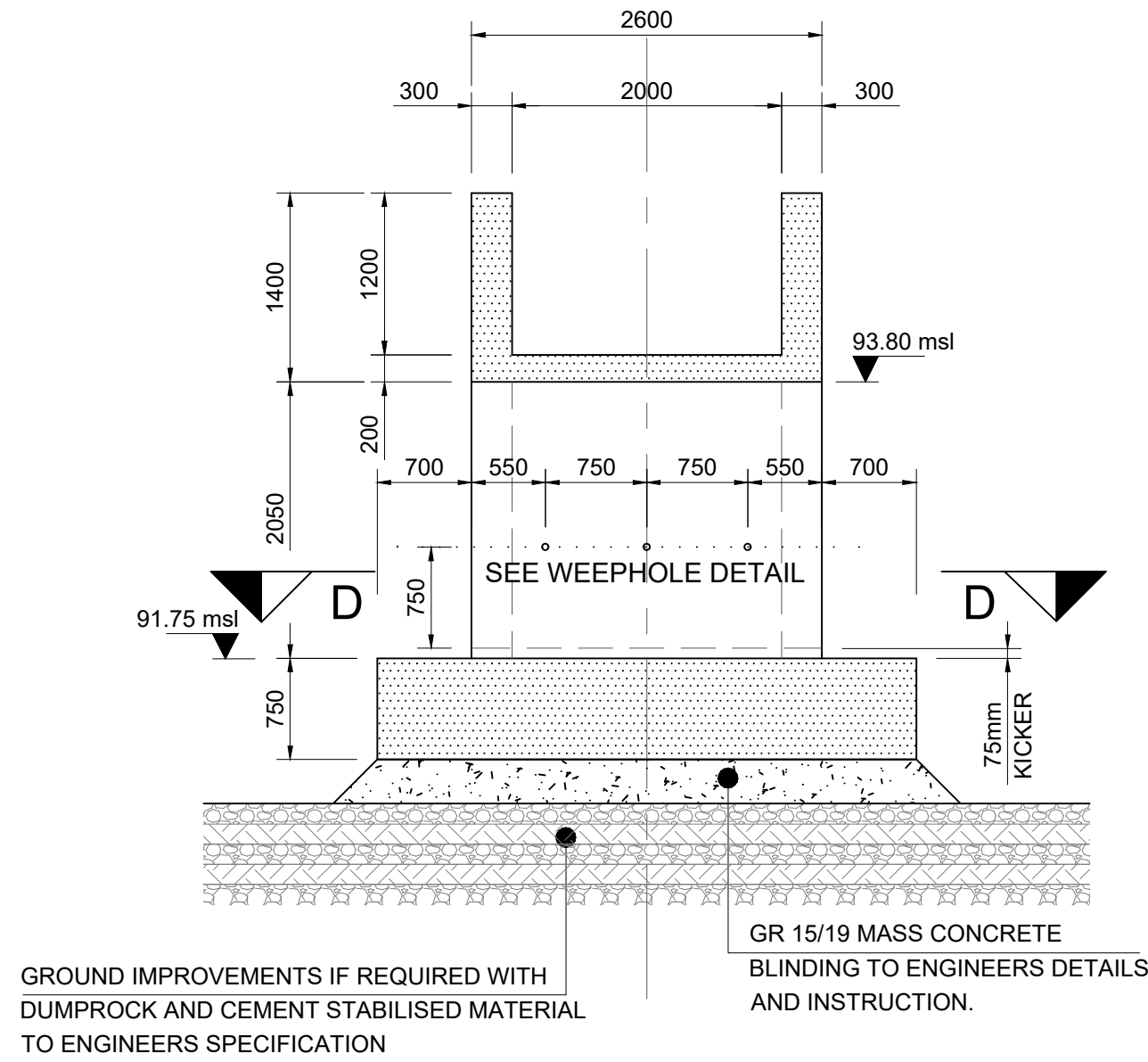
SCALE 1 : 10 000

GENERAL NOTES :

ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO
THE COMMENCEMENT OF ANY WORK.

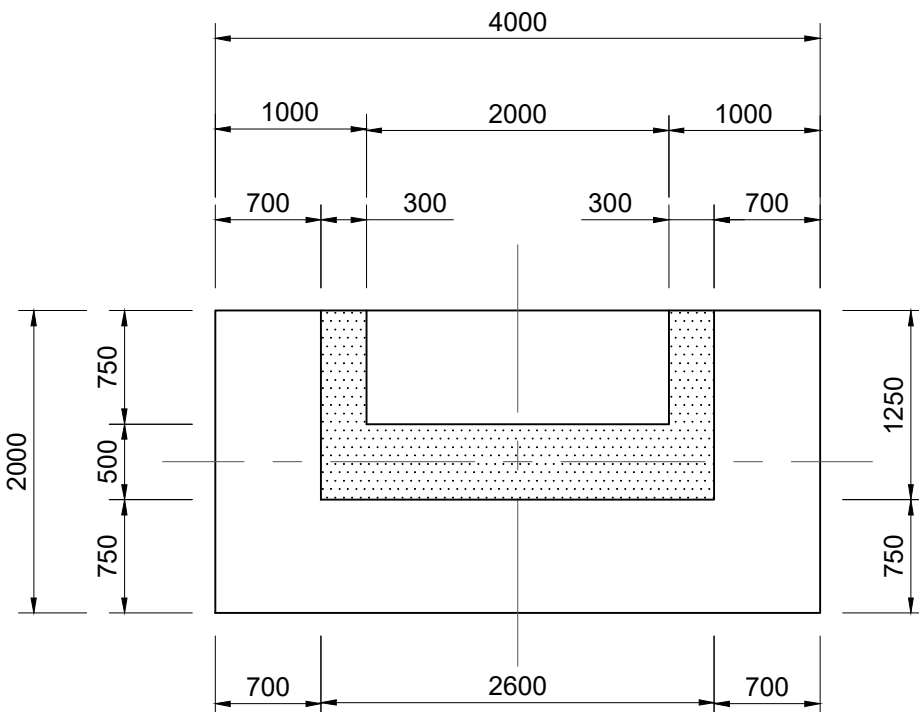
ANY DISCREPANCIES TO BE REPORTED TO THE
ENGINEER IMMEDIATELY.

THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELATED STRUCTURAL DRAWINGS.



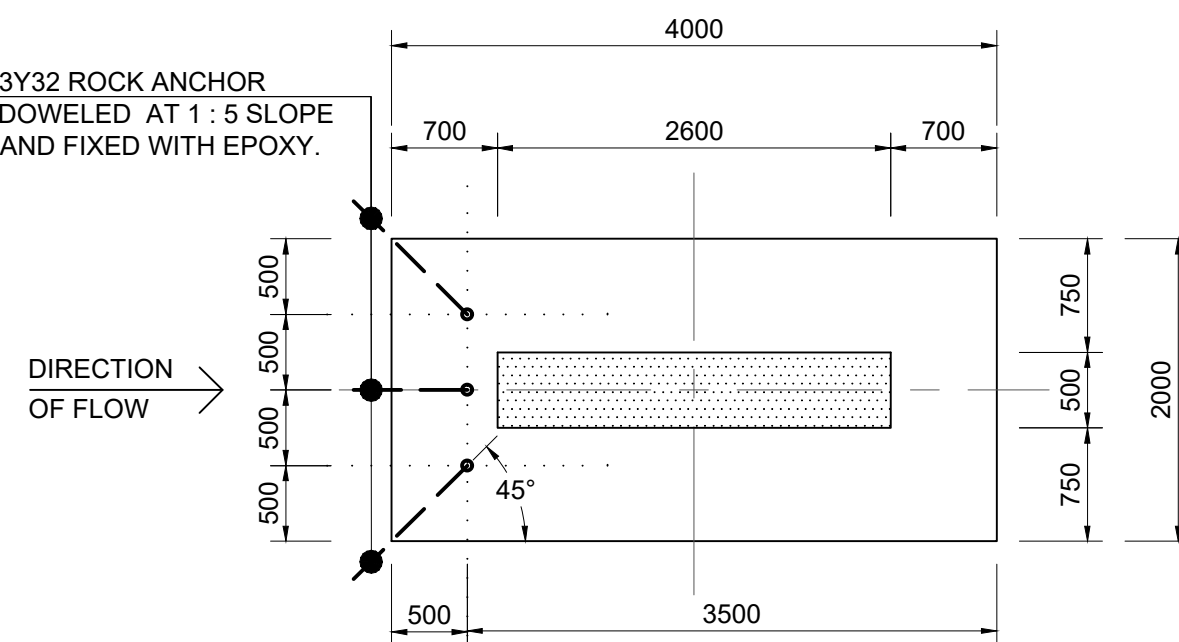
SECTION B - B : SHOWING EAST ABUTMENT
(WEST ABUTMENT SIMILAR ROTATED 180°)

SCALE 1 : 50



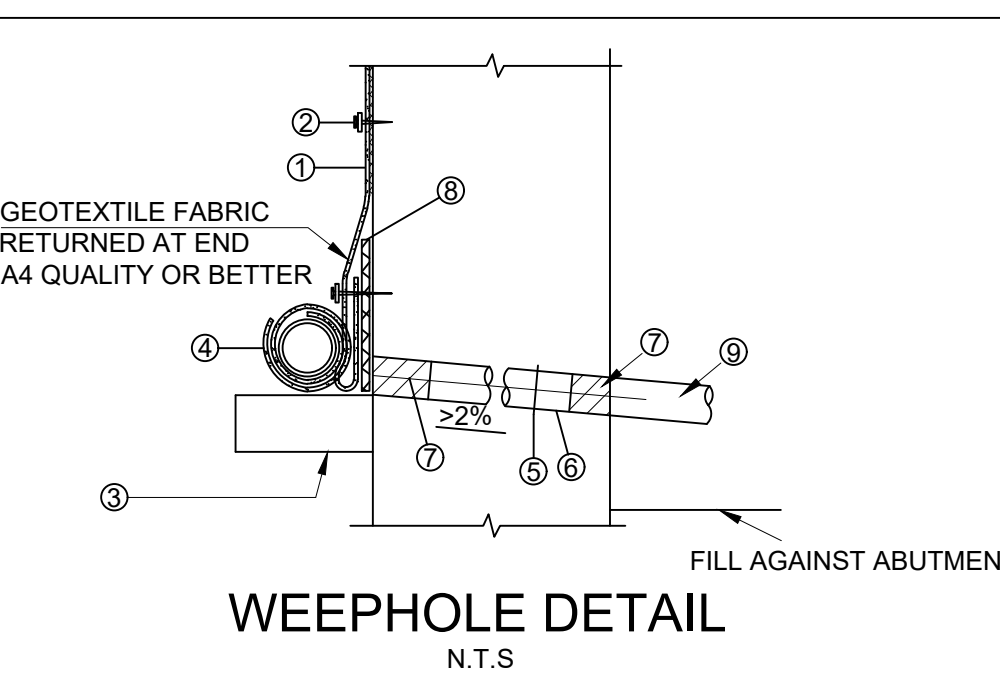
SECTION D - D : SHOWING ABUTMENT BASE

SCALE 1 : 50



SECTION E - E : SHOWING PIER BASE

SCALE 1 : 50

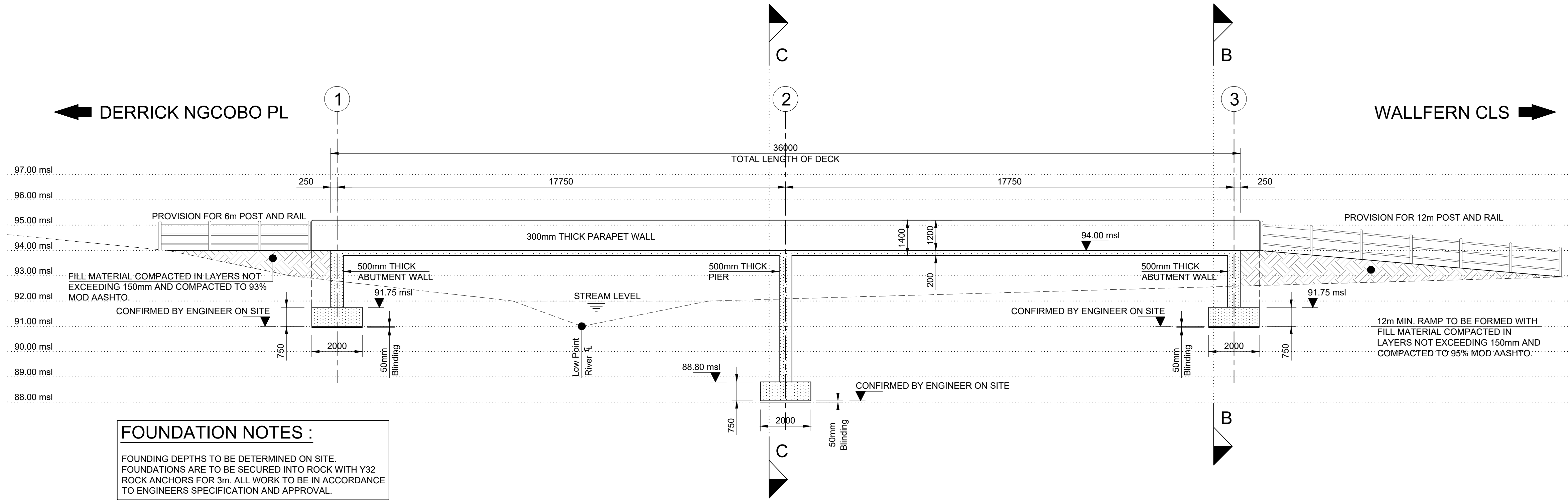


LEGEND

- 200mm WIDE FILTER ELEMENTS SECURED TO BACK FACE OF STRUCTURE AT 45° SLOPE.
- CONCRETE NAILS WITH 25 x 25mm HOOP IRON WASHERS TO SECURE FILTER ELEMENTS TO STRUCTURE AT ± 1 000mm CENTRES.
- CONCRETE SCREED TO GRADE AND LEVEL OF DRAINAGE PIPES PRIOR TO PLACING OF DRAINAGE PIPES.
- 65mm dia PERFORATED DRAINAGE PIPES WRAPPED IN GEOTEXTILE. THE GEOTEXTILE SHALL HAVE AN OVERLAP OF NOT LESS THAN 150mm AND BE TIED AT CENTRES NOT GREATER THAN 200mm.
- 3.15mm dia STAINLESS STEEL WIRE BARRIER.
- 50mm dia uPVC WEEPHOLES AT CENTRES SHOWN. THE CONTRACTOR SHALL ENSURE THAT THE WEEPHOLES ARE CLEAR AND APPROVED BY THE ENGINEER BEFORE THE FILTER ELEMENTS ARE INSTALLED.
- TEMPORARY POLYSTYRENE PLUG TO PREVENT INGRESS OF GROUT DURING PLACING OF THE CONCRETE.
- 200mm WIDE FILTER ELEMENT SECURED TO BACK FACE OF STRUCTURE AT SAME GRADE AS WEEPHOLES
- EXTENSION OF WEEPHOLES TO EMBANKMENT

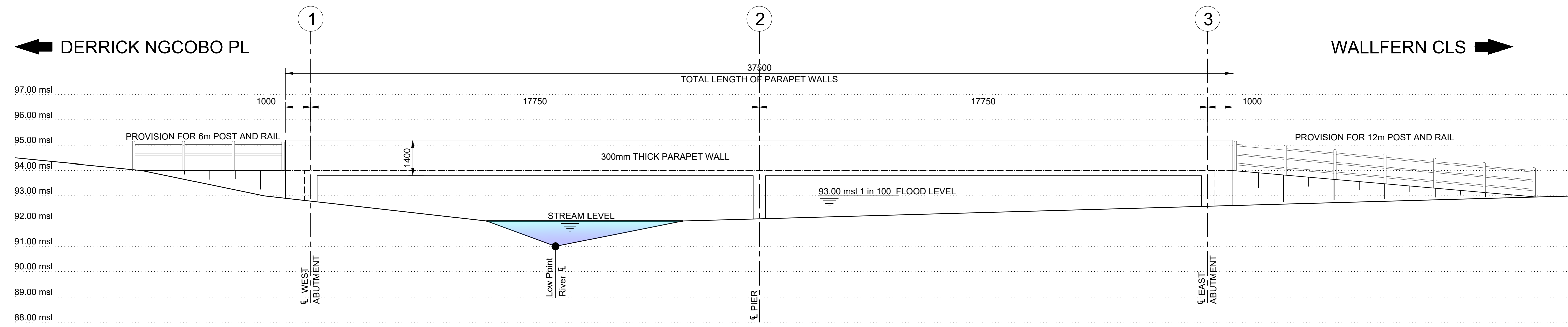
SECTION C - C

SCALE 1 : 50



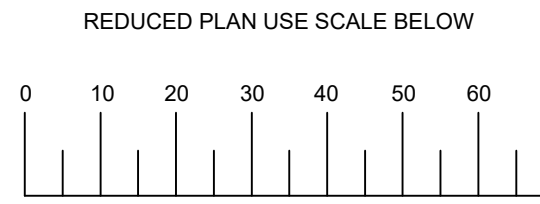
SECTION A - A - THROUGH CENTERLINE OF BRIDGE

SCALE 1 : 100



DOWNSTREAM ELEVATION OF PEDESTRIAN BRIDGE

SCALE 1 : 100



NOTES:

1. GENERAL BRIDGE NOTES

DESCRIPTION - THE BRIDGE IS A DOUBLE SPAN
CONVENTIONALLY REINFORCED CONCRETE
U-BEAM INTEGRAL WITH ABUTMENTS.

DESIGN METHOD - LIMIT STATE
DESIGN CODE - TMH7 PART 3

2. MATERIAL STRENGTHS & STRESSES

CONCRETE:	CLASS(MPa/mm)
BLINDING	- 15/19
FOUNDATIONS	- 30/19
ABUTMENTS & PIERS	- 30/19
DECK	- 30/19

REINFORCEMENT:
MILD STEEL - 250 MPa
HIGH-YIELD-STRESS STEEL - 450 MPa

3. SUBSTRUCTURE

a) FOUNDATIONS
FOUNDING DEPTHS TO BE DETERMINED ON
SITE. FOUNDATIONS ARE TO BE SECURED UNTIL
ROCK WITH Y32 ROCK ANCHORS. ALL WORK TO
BE IN ACCORDANCE TO ENGINEERS
SPECIFICATION AND APPROVAL.

b) CONCRETE FINISHES TO FORMED & UNFORMED
SURFACES
DECK SURFACES: CLASS 3(a)
TOP OF DECK: F1 SCREEDED FINISH
INTERNAL DECK SURFACES: CLASS 1

c) CONCRETE COVER
CAST AGAINST EARTH - 40mm
FOUNDATIONS (SHUTTERED) - 40mm
EXPOSED SURFACES - 40mm

d) CHAMFERS TO ALL EXPOSED SHARP CORNERS
25 x 25mm

Revision	Date	PREPARED FOR TENDER	Description
V1	10/10/2024		
NOTE: No construction work to commence until land and servitude acquisitions have been completed.			
Acquisitions completed:			
Date	Engineer	UNDERGROUND SERVICES CHECKED	
SERVICE		DATE	SIGNATURE
S.W DRAINS			
SEWERS			
WATER MAINS			
G.P.O. CABLES			
ELECTRIC CABLES			
S.A.R. CABLES			
E.S.C. CABLES			
OIL PIPE LINE			
NOTE: Only underground services affected by new construction work are shown. Care must be taken during excavation for road foundations, trenches etc. to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.			

Contract No. 1R-27491

Project Title
**WARD 86
PEDESTRIAN BRIDGE ON
HOW LONG PLACE -
MAYIBUYE DRIVE**

Drawing Title
**GENERAL ARRANGEMENT
LOCALITY PLAN, SECTIONS
AND ELEVATION OF
PEDESTRIAN BRIDGE**

Scales : AS SHOWN Date : 10/10/2024
Designed : X. MKATI Checked : P. FENTON
J. HARRIPERSHAD
Drawn : X. MKATI Surveyed : SURVEY DEPT.
Manager : Structures
P. G. Fenton
Deputy Head : Roads Provision
S. MASONDO

G. EVANS HEAD : ENGINEERING
Drawing No. Sheet of 01 04 Rev. V1A

FOR CONSTRUCTION