

SCHEDULE OF COLUMN			
Foundation	Base Size (mm)	No.	
Type F1	1200x1200x250	25	
Type F2	2000x1500x250	2	

ND BASES	
Column Size (mm)	No.
700x700	25
1500x1000	2

NOTES

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4.Reinforced concrete for all structural elements to be grade C20/25 to BS EN 206-1:2002, except for the ground floor slab (grade C16/20), and roof slab (C25/30).

5. Cover to main reinforcement to be as follows:

- (a) Foundation = 50mm(b) Columns = 40mm
- (c) Beams = 30mm

(d) Slabs = 25mm

6."H" Denotes ribbed high yield bars to BS 4461 with a yield strength of 500N/mm2 to BS 4449-2005.

7. Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in formwork.

8. All masonry walls must be reinforced with 25mm hoop iron after every two alternate courses. The hoop iron must be extended through the column sections.

9. To ensure enhanced bonding between the masonry and the R.C. columns, the masonry walling must be raised first before the columns are cast.

10. All mortar used to be of cement sand mix 1:3, with all the stone walling being laid in 200mm courses with 12mm mortar joints.

11. A minimum of 7.0N/mm2 average compressive strength of masonry in accordance with BS EN 771 and BS 5268 should be used for all wall sections.

12. Mass concrete to be grade 12/15 to BS EN 206-1:2002.

13. Double masonry walls to be built one at a time. Waterproofing plaster shall be applied to the inside of the first wall to Engineer's approval before the second is built . REVISIONS

Date	Suffix	Descriptions	lssue

CLIENT



PROJECT

PROPOSED CIVIL WORKS & STEEL STRUCTURES FOR 66/33KV EPZ SUB-STATION - ATHI RIVER

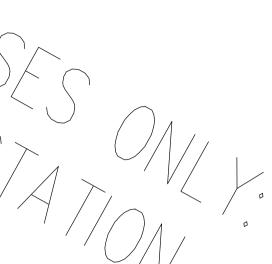
CONSTRUCTION DRAWINGS

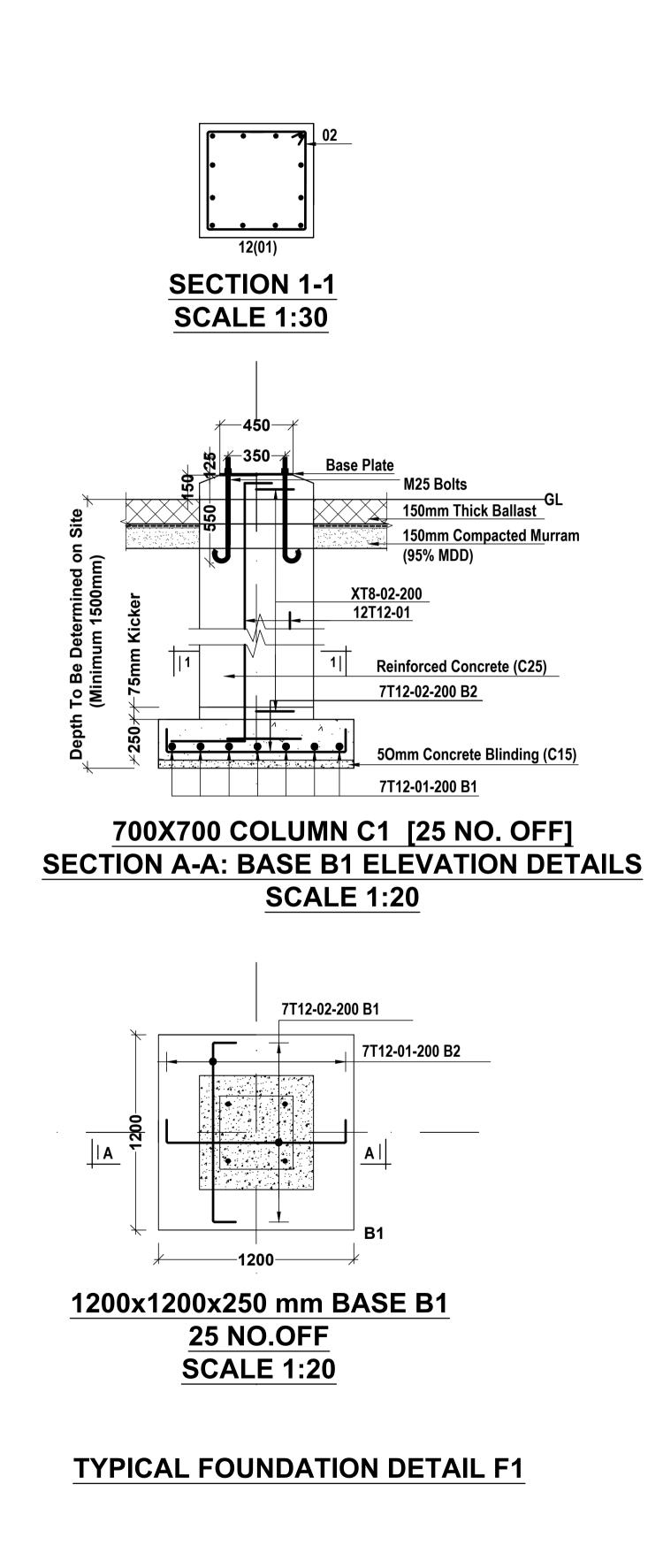
GENERAL ARRANGEMENT

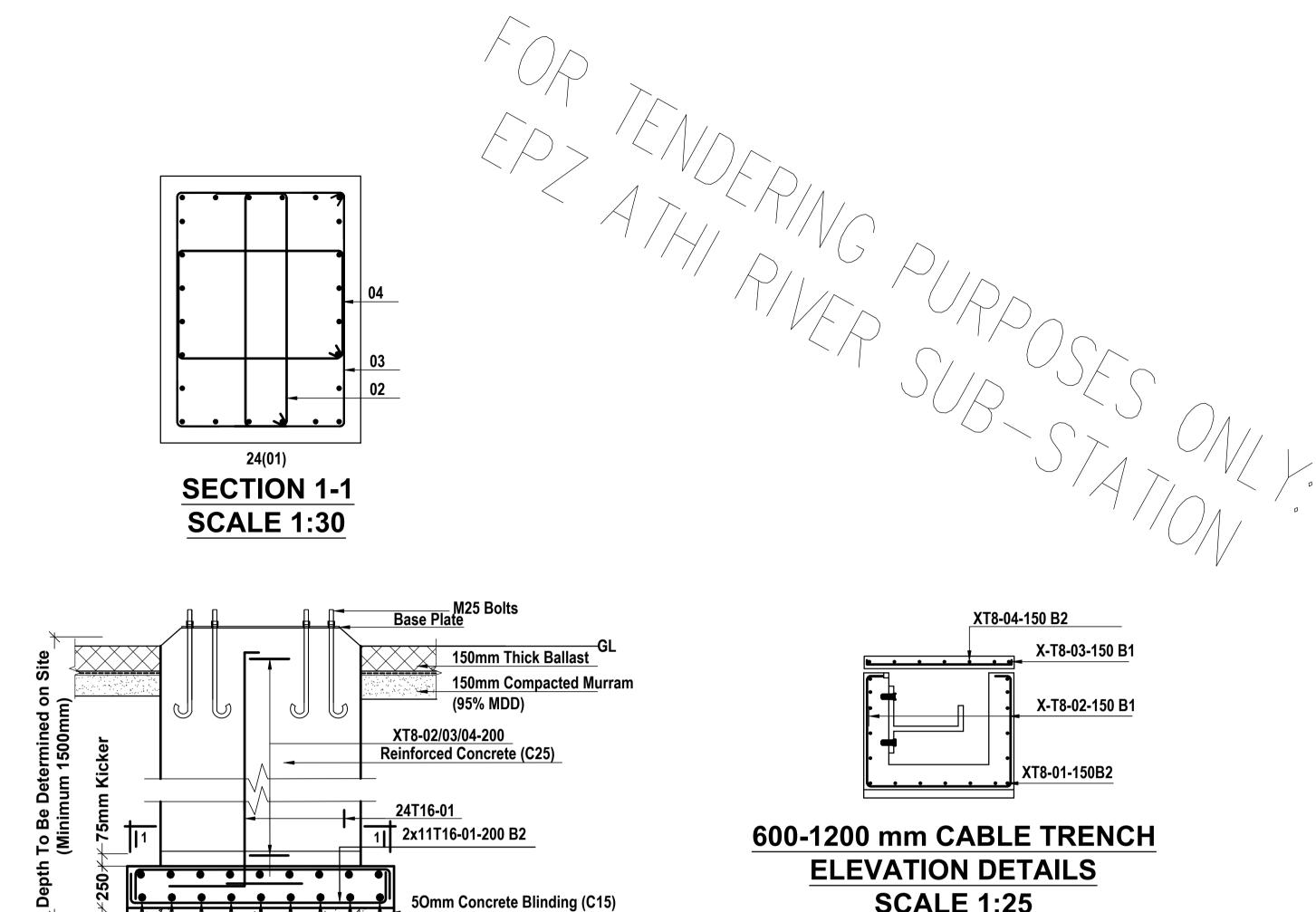
STRUCTURAL

EPZ - SHEET 001/025 (a)

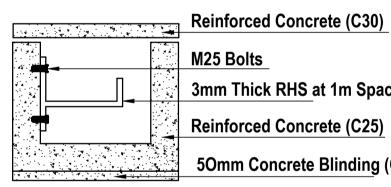
Drawn	D.WAITHE	RA	Scale(s)	AS INDICATED
Designed	D.WAITHE	RA	Date	APRIL, 2025
Checked	ENG. D.M	.WAMBUGU	Date	APRIL, 2025
Approved	ENG. D.M	.WAMBUGU	Date	APRIL, 2025
ISSUE DA	ATE	APRIL,	2025	
JOB No.				







SCALE 1:25

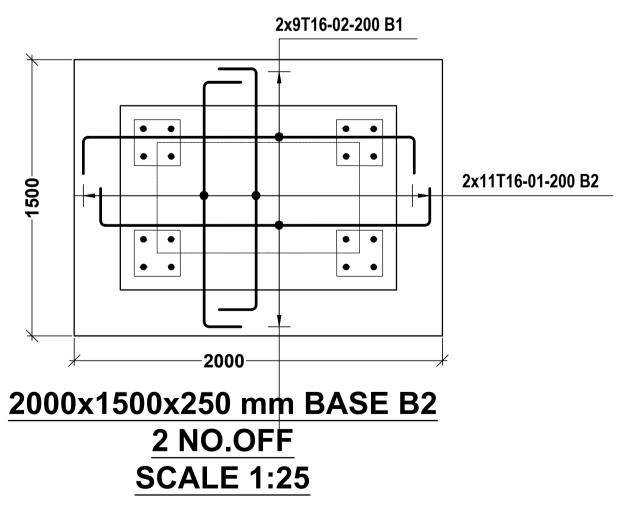


600-1200 mm CABLE TRENCH **SCALE 1:25**

TYPICAL FOUNDATION DETAIL CABLE TRENCH

1500X1000 COLUMN C2 [2 NO. OFF] **SECTION C-C: BASE B2 ELEVATION DETAILS SCALE 1:25**

2x9T16-02-200 B1



TYPICAL FOUNDATION DETAIL F2

3mm Thick RHS at 1m Spacing Reinforced Concrete (C25) 50mm Concrete Blinding (C15)



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Kenya Power

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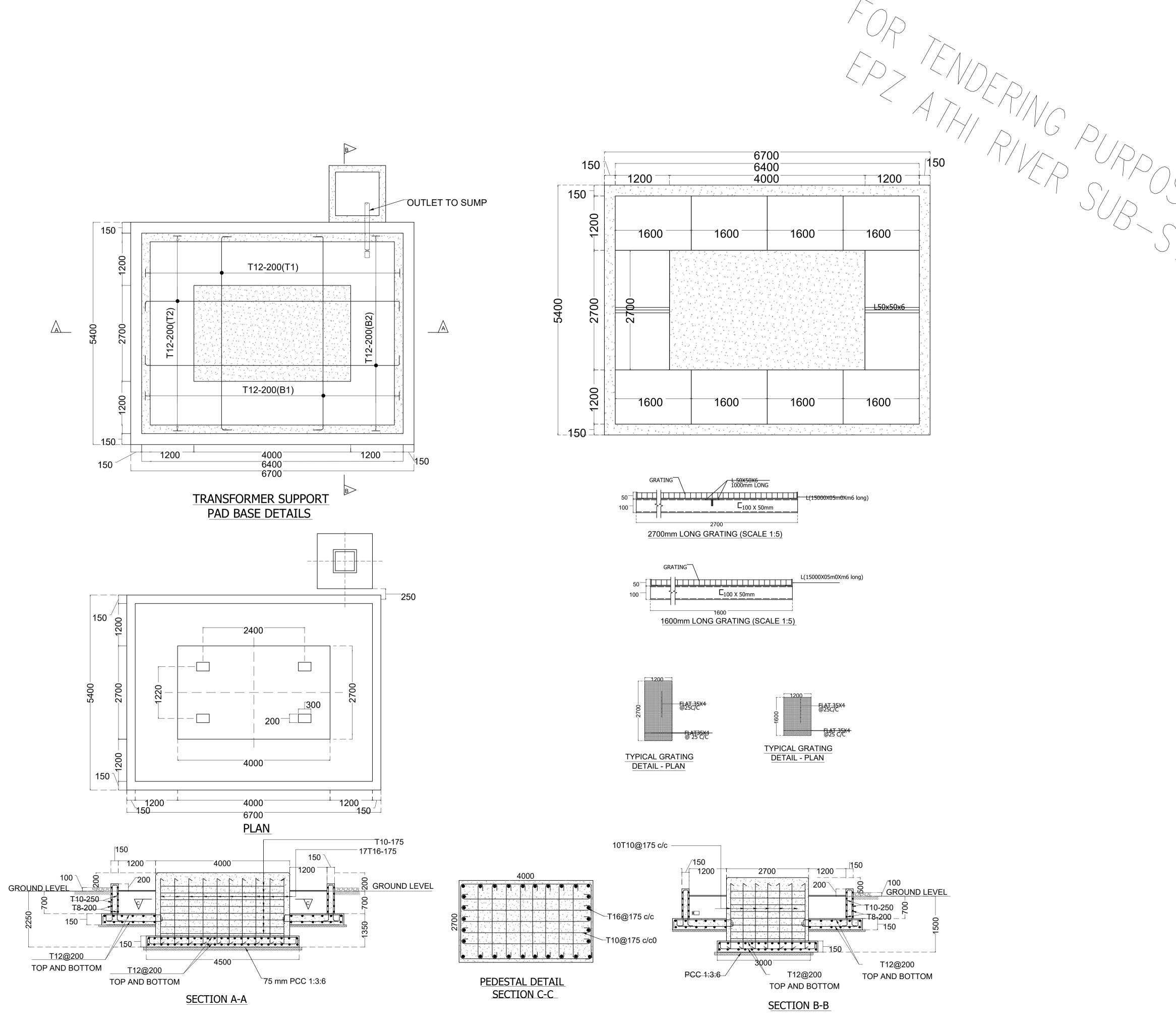
CONSTRUCTION DRAWINGS

GENERAL ARRANGEMENT

SECTION DETAILS

EPZ - SHEET 001/025 (b)

Drawn	D.WAITHE	RA	Scale(s)	AS INDICATED
Designed	D.WAITHE	RA	Date	APRIL, 2025
Checked	ENG. D.M.WAMBUGU		Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU		Date	APRIL, 2025
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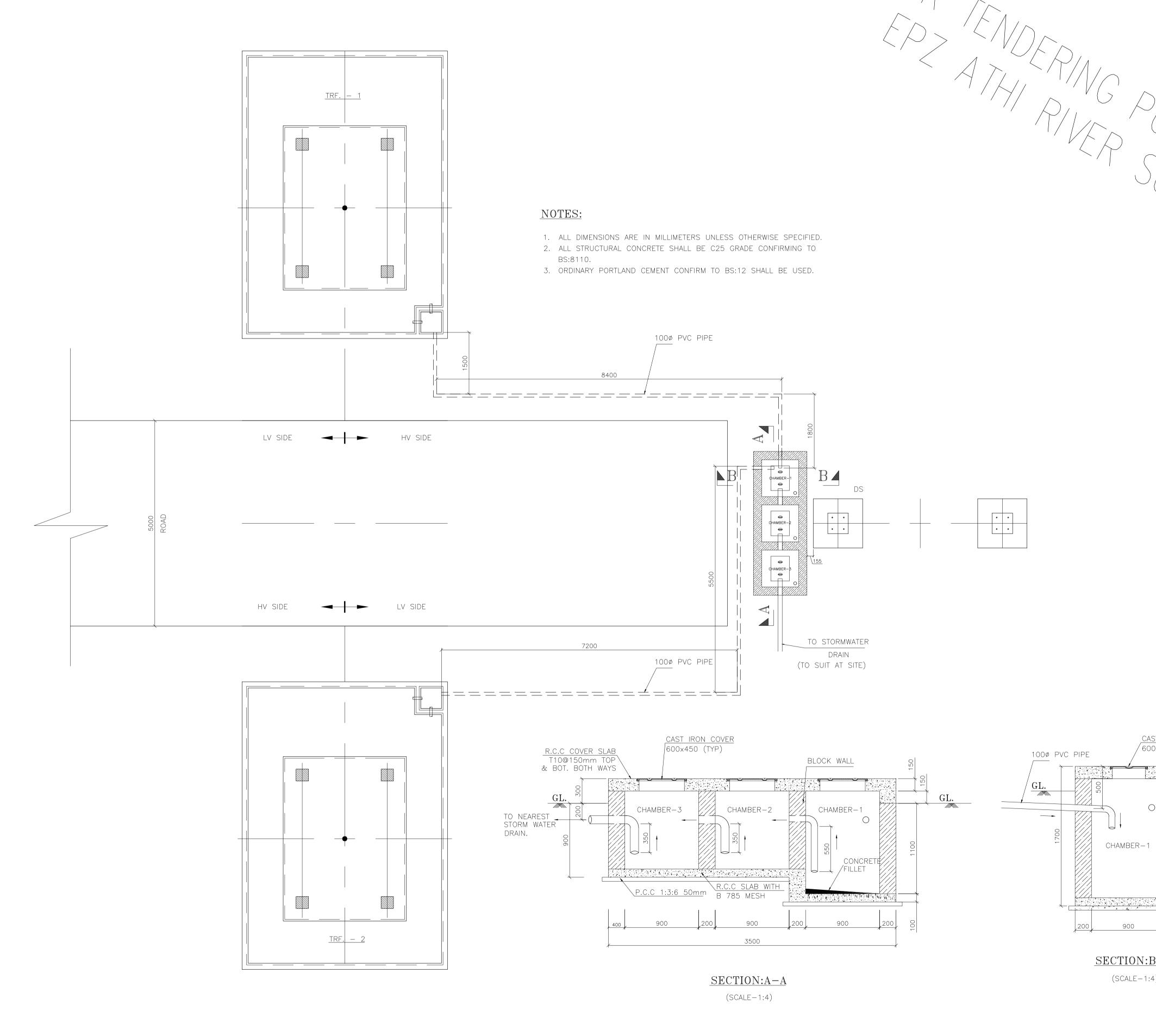
CONSTRUCTION DRAWINGS

TRANSFORMER

PLINTH

EPZ - SHEET 002/025 (a)

Drawn	D.WAITHE	IRA	Scale(s)	AS INDICATED
Designed	D.WAITHE	RA	Date	APRIL, 2025
Checked	ENG. D.M.WAMBUGU		Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU		Date	APRIL, 2025
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<u>SECTION:B-B</u> (SCALE-1:4)

900

CAST IRON COVER 600x450 (TYP)

 \bigcirc

CHAMBER-1

GL.

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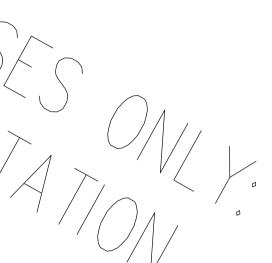
CONSTRUCTION DRAWINGS

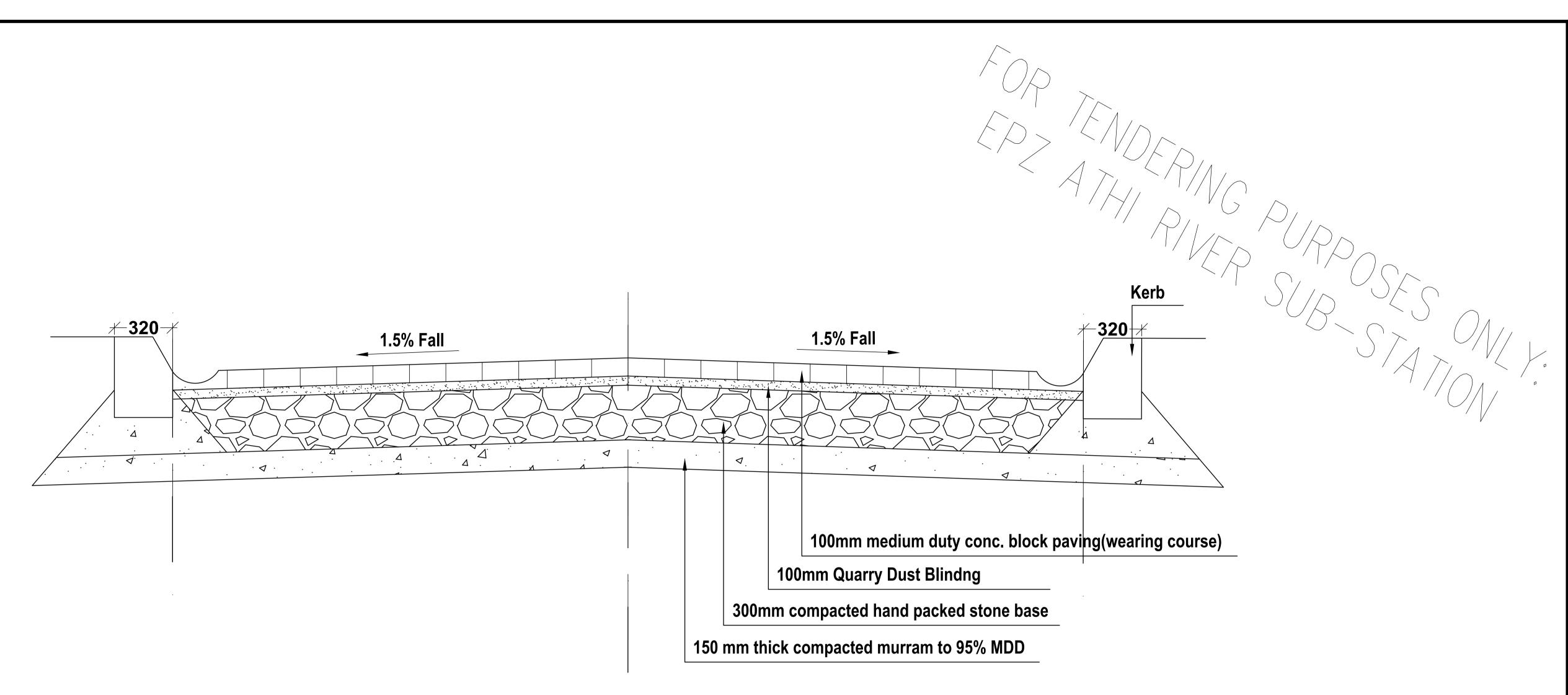
TRANSFORMER

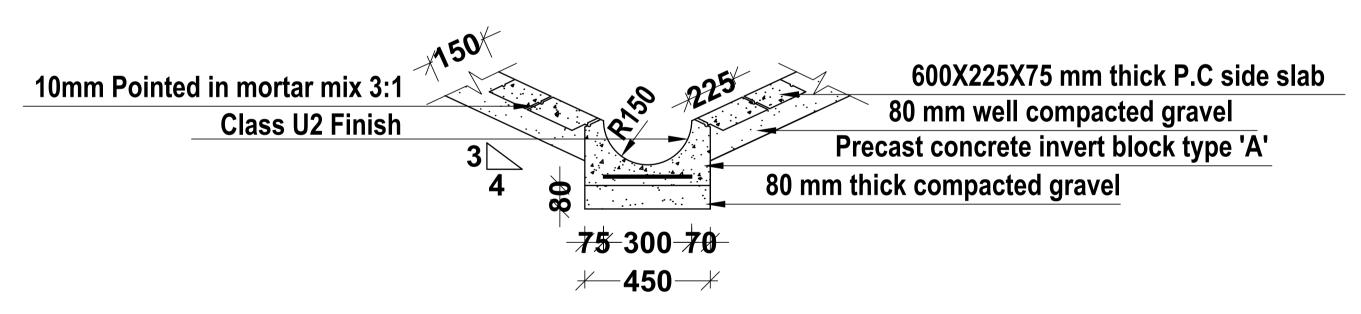
OIL INTERCEPTOR

EPZ - SHEET 002/025 (b)

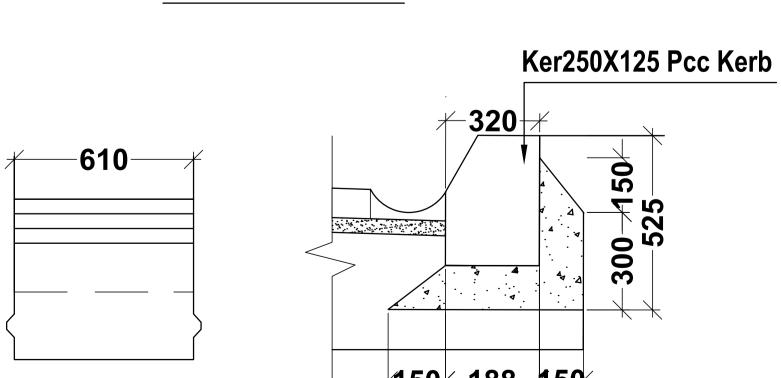
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Designed	D.WAITHE	IRA	Date	APRIL, 2025
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END ELEVATION



SIDE ELEVATION

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CONSTRUCTION DRAWINGS

DRAINAGE & ACCESS ROAD

EPZ - SHEET 003/025

Drawn	D.WAITHE	IRA	Scale(s)	AS INDICATED
Designed	D.WAITHE	IRA	Date	APRIL, 2025
Checked	ENG. D.M.WAMBUGU		Date	APRIL, 2025
Approved	ENG. D.M	.WAMBUGU	Date	APRIL, 2025
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