

Isometry of culvert



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NATIONAL SOLIDARTY PROGRAMME AFGHANISTAN

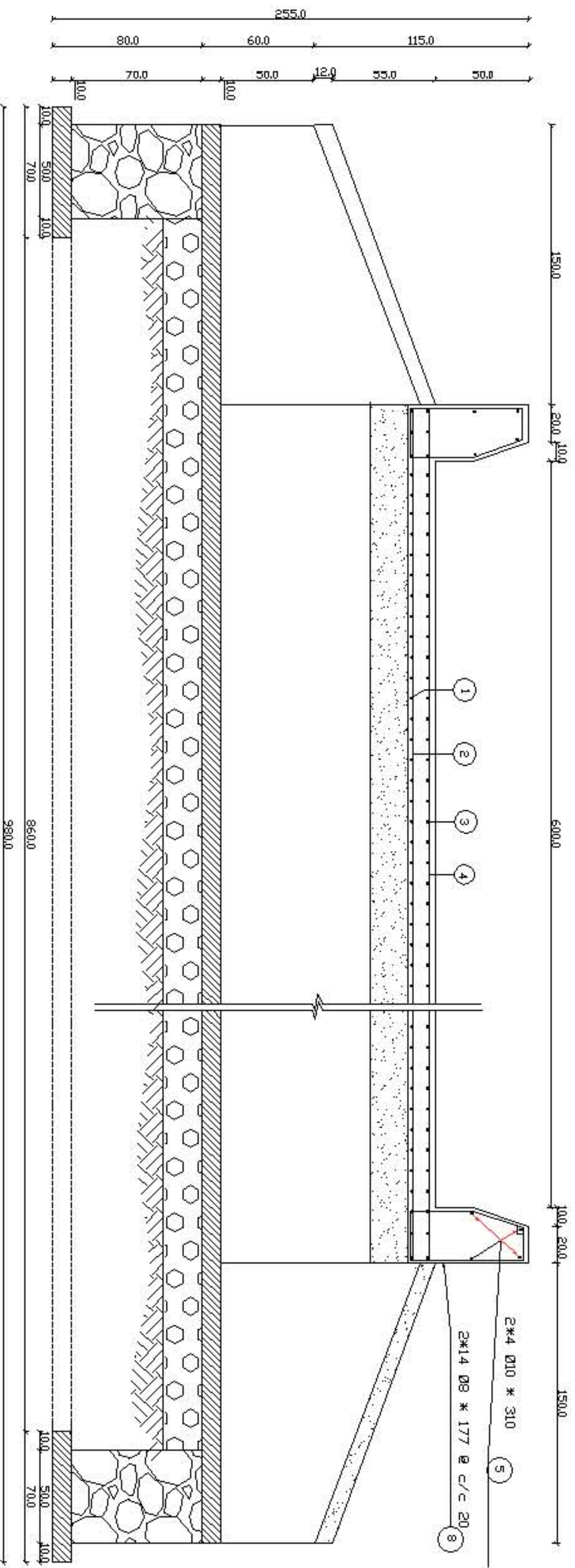
STANDARDIZATION UNIT

STANDARD DESIGN

NSP

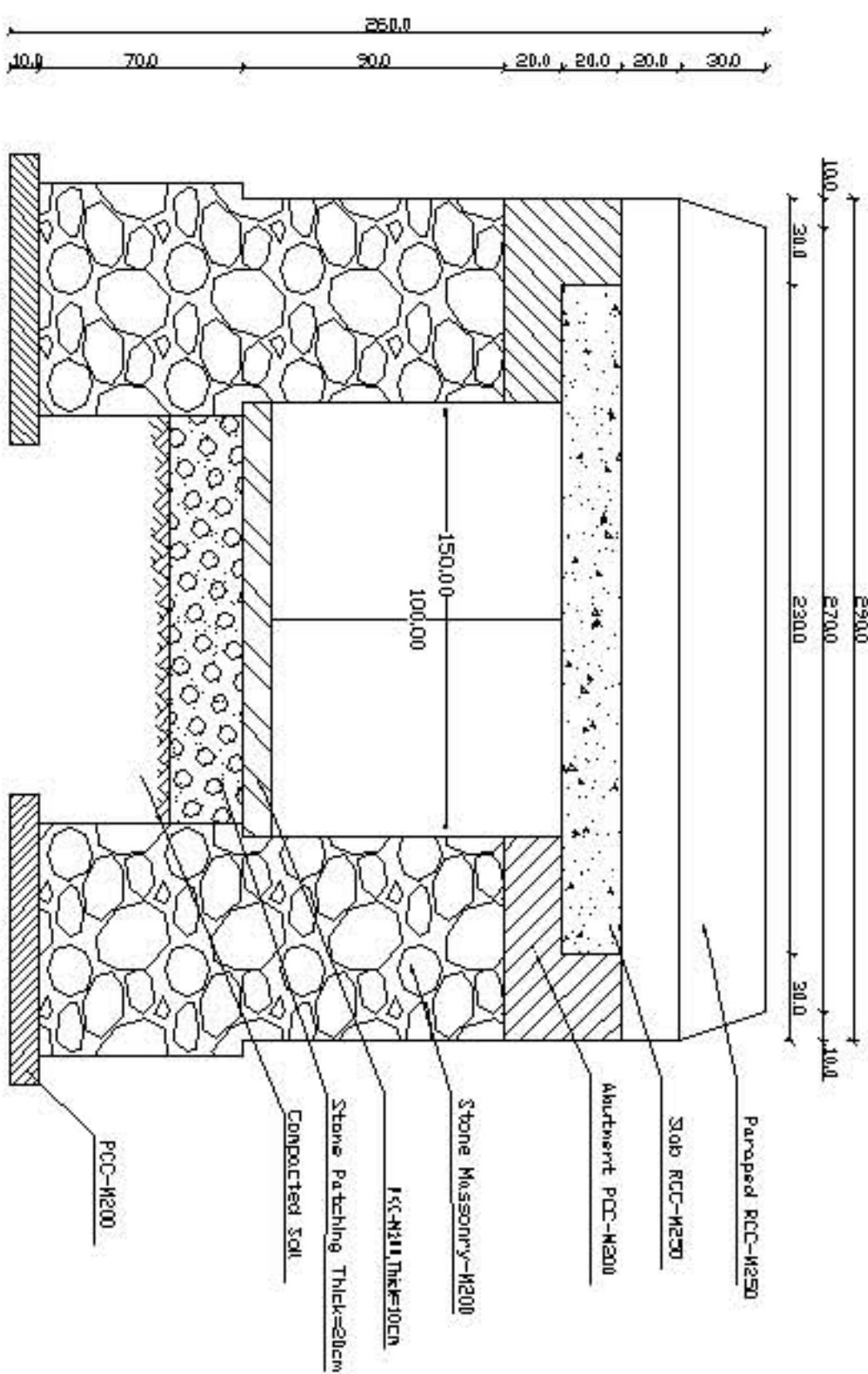
Project Title	Culvert	Sheet No	1/1	Design by	Eng. A. Saboor	Reviewed by	Eng.Sardar MoJhool	Date	Jan-2005
Project Subject	Isometry	Scale	In dimension	Drawn by	Eng. A. Saboor	Approved by	Eng.Robert D'Cruz		









Culvert Type VIII
Section A-A



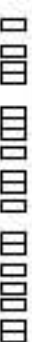
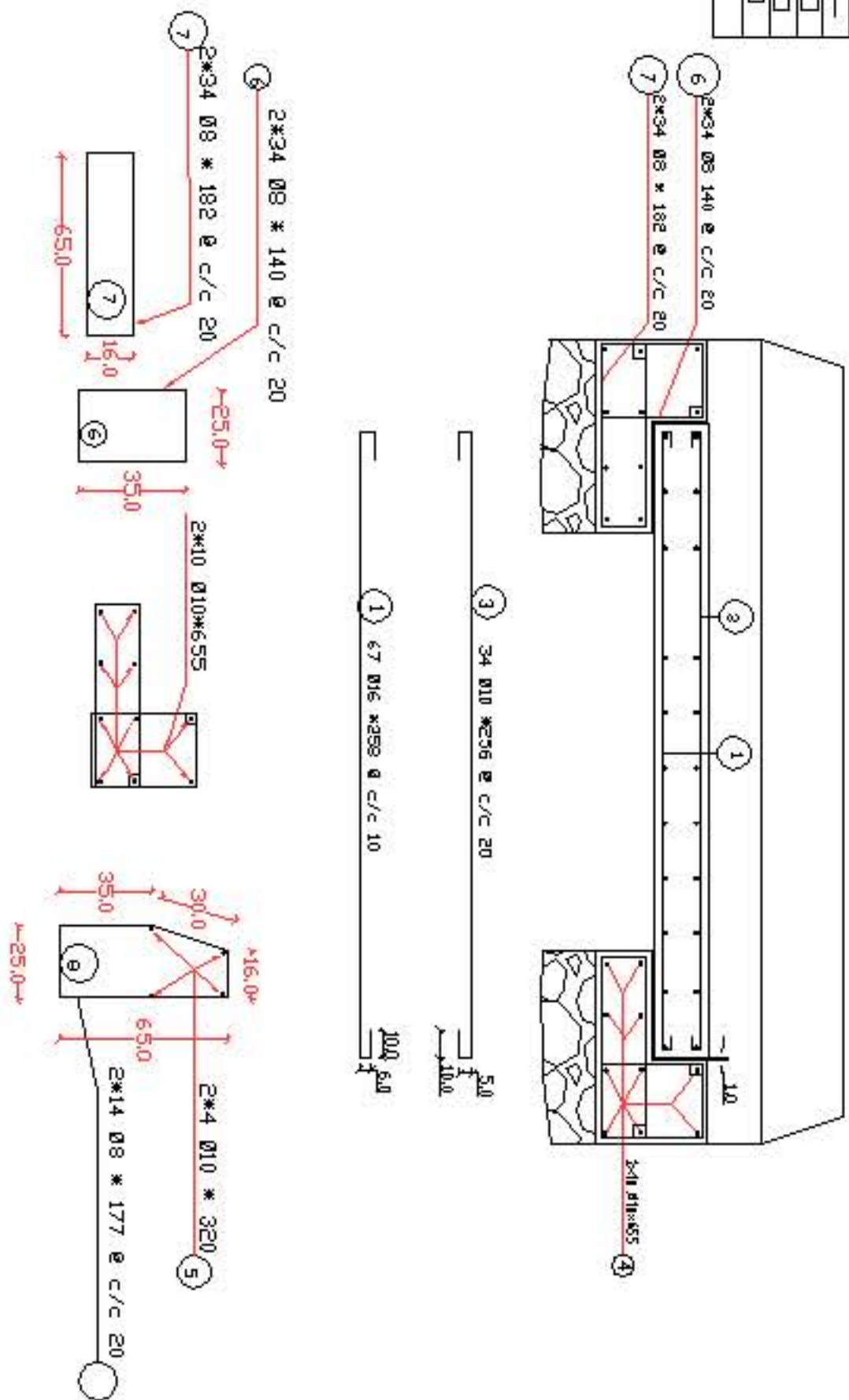
4	12*Ø10*655 @c/c 20
2	16*Ø16*655 @c/c 15

[illegible]

$$\frac{H_{\text{TPU}} - H_{\text{all}}}{H_{\text{OC-TPU}} - H_{\text{all}}}$$


Steel bar chart								
Bar no.	Bar dia {mm}	Num. of bar	Length {m}	Total length {m}	Wt/wgt {kg}	Total weight {kg}	Total weight + 5 % {kg}	Shape of bar
1	16	67	2.64	176.88	1.58	279.47	293.44	
2	16	16	6.55	104.80	1.58	165.58	173.06	
3	10	34	2.64	89.76	0.62	55.65	58.43	
4	10	32	6.55	209.60	0.62	129.95	136.45	
5	10	8	3.10	24.80	0.62	15.38	16.14	
6	8	68	1.40	95.20	0.40	38.08	39.98	
7	8	68	1.62	123.76	0.40	49.50	51.98	
8	8	28	1.77	49.56	0.40	19.82	20.82	
Total weight:							791.11	

1. All dimensions are in centimeters unless otherwise specified.
2. If founded stone from a river or other source is used it shall not consist of more than 50% of the total volume of stone and shall be evenly distributed throughout the wall.
3. All masonry work should be pointed.
4. Angle and length of wing walls should be adjusted by the engineer at the construction.
5. Refer to the bar schedule for the length and shape of reinforcement.
6. Concrete shall be proportioned by volume with a water cement ratio of not more than 0.45.
7. The culvert should be constructed with a fall of $22 - 41^{\circ} 0'$.



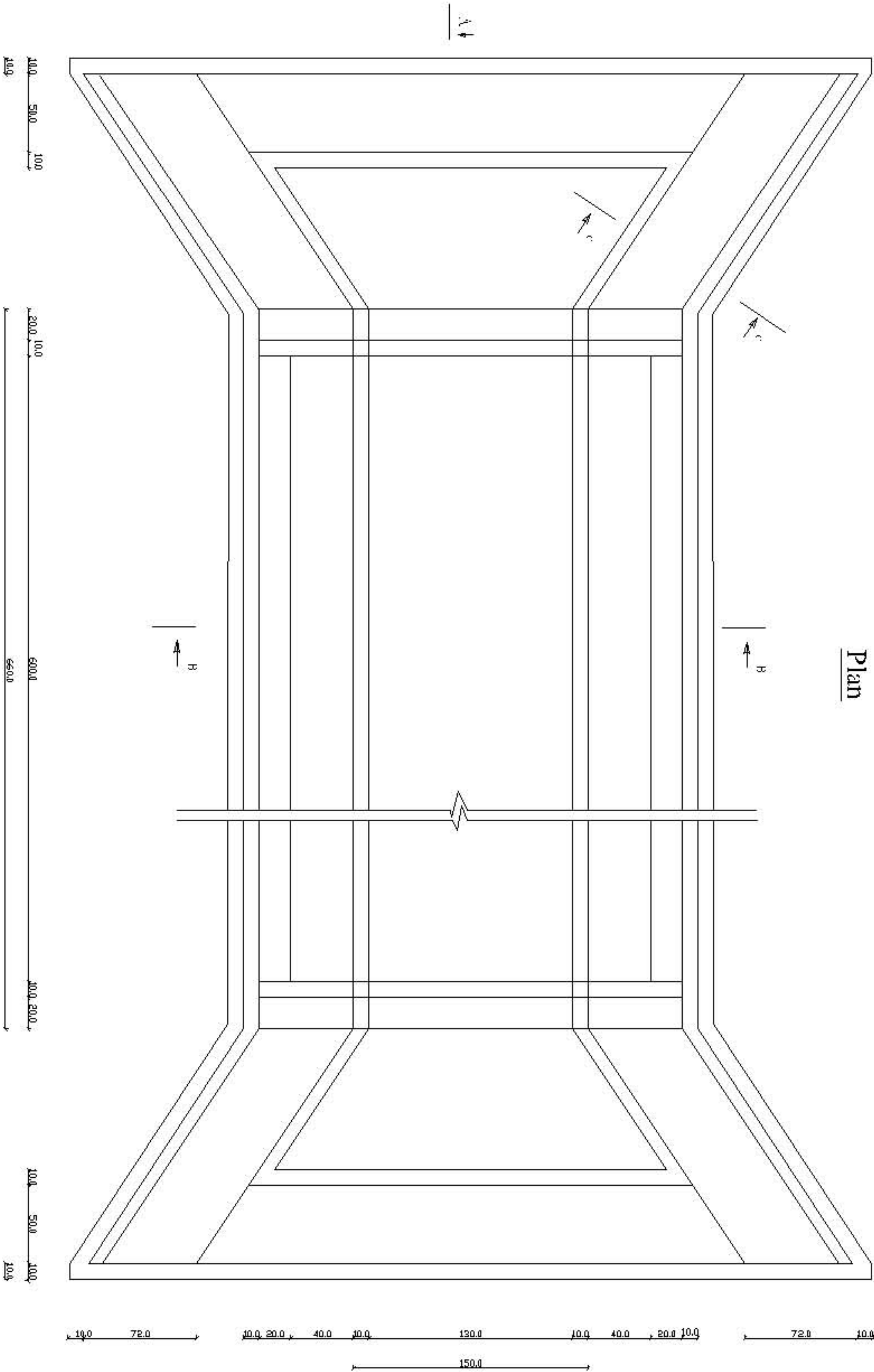
STANDARD DESIGN

Project Title	Culvert Specification for 6m road	Sheet No	1/3	Design by	Eng. M. Ayoub "Ayoubi"	Reviewed by	Eng. Sander Majnool	Date	Jan-2005
Project Subject	Details & Steel bar table	Scale	In dimension	Drawn by	Eng. M. Ayoub "Ayoubi"	Approved by	Eng. Robert D'Cruz		



Culvert Type VIII

Plan



The size and dimension of wing walls belong to site condation.

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STANDARDIZATION UNIT									
STANDARD DESIGN									
Project Title	Culvert Span-15m for 6x roads	Sheet No	2/3	Design by	Eng. M. Ayroob "Ayroobi"	Reviewed by	Eng.Sardar MaJhool	Date	Jan-2005
Project Subject	Plan Section	Scale	In dimension	Drawn by	Eng. M. Ayroob "Ayroobi"	Approved by	Eng.Robert D'Cruz		