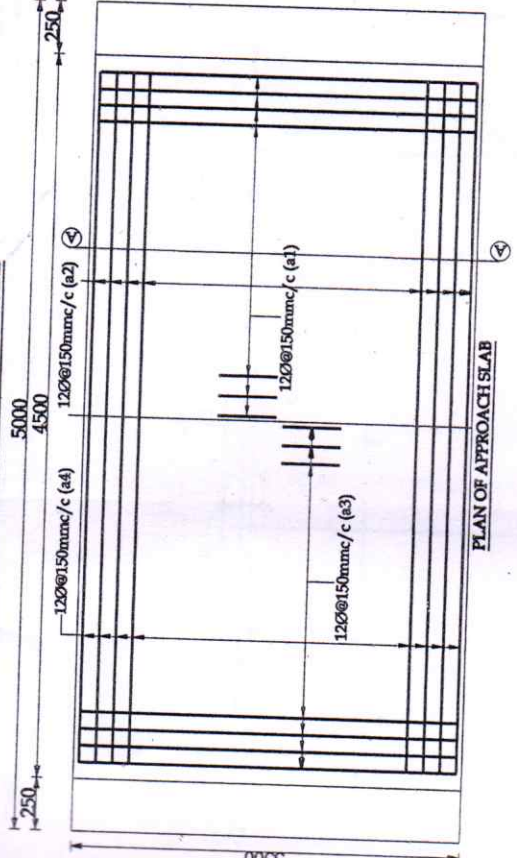
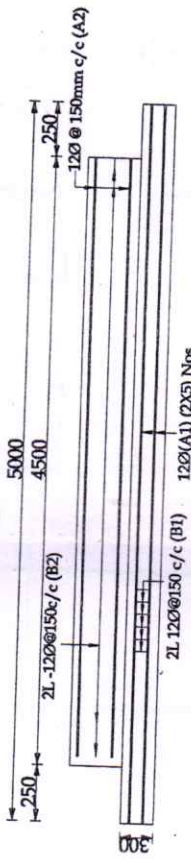


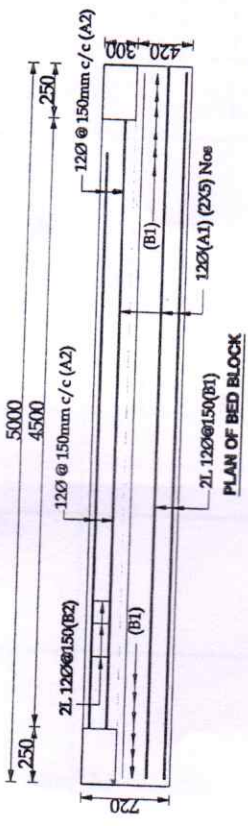
C/S REINFORCEMENT DETAILS OF APPROACH SLAB



PLAN OF APPROACH SLAB

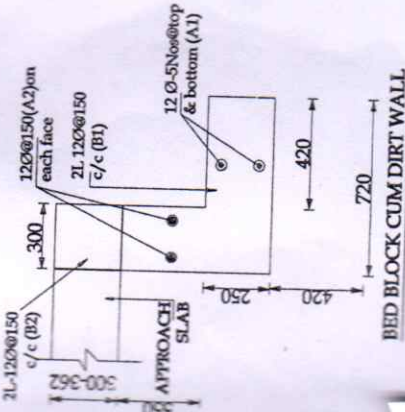


LONGITUDINAL SECTION OF DIRT WALL



PLAN OF BED BLOCK

- NOTES:-
- All dimensions are in "mm".
 - Grade of concrete M25 (Design mix) using 20 mm ES HBG graded metal for deck slab.
 - The reinforcing steel is of grade Fe 415 conforming to IS 1786 & cl.18.2 of IRC:112-2011.
 - Exposure Condition - Moderate, Seismic Zone - II.
 - Chair cover to all reinforcements shall be 40mm.
 - Grade of concrete M40 (Design mix) using 20 mm ES HBG graded metal for crash barrier.
 - Water to be used for construction shall conform to cl.10.4.5 of IRC:112-2011.
 - Precast mortar blocks of respective grade shall be used under the reinforcement to ensure the required cover.
 - Welding shall be as per cl.15.2.5.2 of IRC:112-2011.
 - Laps to reinforcement shall be provided as per cl.15.2.5 of IRC:112-2011.
 - Development length shall be as per cl.15.2.5 & 15.2.4 of IRC:112-2011.
 - Do not scale the drawing follow figured dimensions only.



BED BLOCK CUM DIRT WALL

A) REINFORCEMENT DETAILS OF APPROACH SLAB									
Sl. No.	Bar	Length of Bar (mm)	No. of Bars	Weight of Bar (kg)	Shape (mm)	Sl. No.	Bar	Length of Bar (mm)	No. of Bars
1	A1	150	40	368	A1	7	A1	150	40
2	A2	150	40	368	A2	8	A2	150	40
3	A3	150	40	368	A3	9	A3	150	40
4	A4	150	40	368	A4	10	A4	150	40
5	A5	150	40	368	A5	11	A5	150	40
6	A6	150	40	368	A6	12	A6	150	40
TOTAL WEIGHT OF BARS						TOTAL WEIGHT OF BARS			
Up to 150mm dia = 403 kg						Up to 150mm dia = 403 kg			
Above 150mm dia = 0 kg						Above 150mm dia = 0 kg			
TOTAL WEIGHT OF BARS = 1612 kg						TOTAL WEIGHT OF BARS = 1612 kg			

B) REINFORCEMENT DETAILS OF BED BLOCK & DIRT WALL FOR ABUTMENT									
Sl. No.	Bar	Length of Bar (mm)	No. of Bars	Weight of Bar (kg)	Shape (mm)	Sl. No.	Bar	Length of Bar (mm)	No. of Bars
1	A1	150	40	368	A1	7	A1	150	40
2	A2	150	40	368	A2	8	A2	150	40
3	A3	150	40	368	A3	9	A3	150	40
4	A4	150	40	368	A4	10	A4	150	40
5	A5	150	40	368	A5	11	A5	150	40
6	A6	150	40	368	A6	12	A6	150	40
TOTAL WEIGHT OF BARS						TOTAL WEIGHT OF BARS			
Up to 150mm dia = 403 kg						Up to 150mm dia = 403 kg			
Above 150mm dia = 0 kg						Above 150mm dia = 0 kg			
TOTAL WEIGHT OF BARS = 1612 kg						TOTAL WEIGHT OF BARS = 1612 kg			

CLIENT:-

NAME OF WORK:-

TITLE:-
REINFORCEMENT DETAILS
OF APPROACH SLAB & BED
BLOCK CUM DIRT WALL

SCALE: 1:40

SHEET
3 of 3

DWG. NO: 3

No.

Revision/Issue

Date

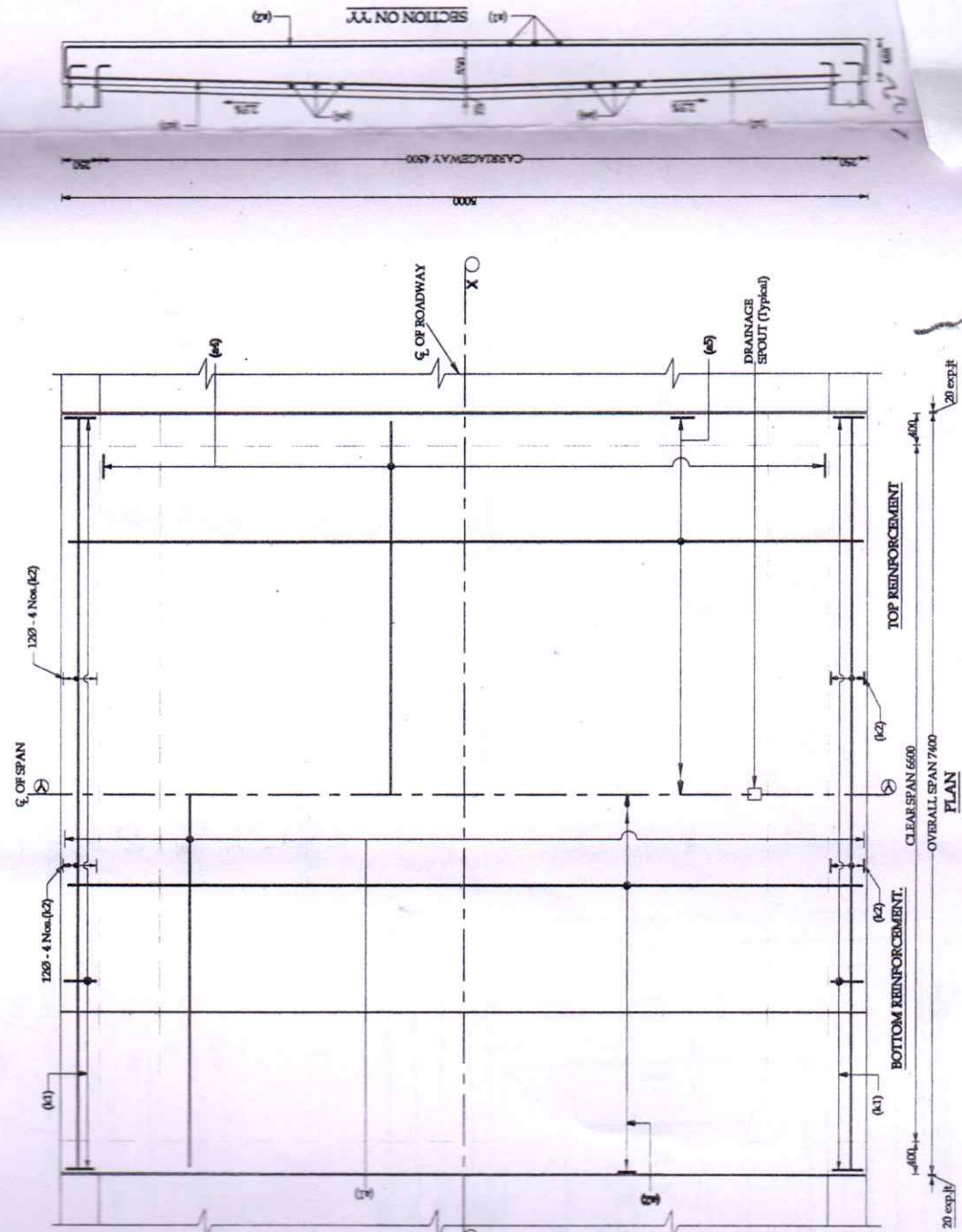
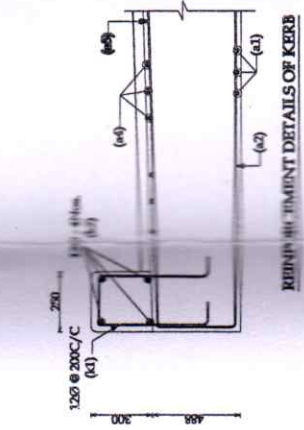
9 HYSD RIBS
REINFORCEMENT DETAILS OF DECK SLAB

Type	Location	Dist. of Base (mm)	Length (mm)	No. of Ribs	Length of Each Rib (mm)	Total Weight (kg)	Shape (mm)
DECK SLAB							
a1	SLAB BOTTOM Along-X	20	4350	1	750	2466	200
a2	SLAB BOTTOM Along-Y	10	7200	1	570	239.87	200
a3	SLAB SIDES Along-Y	10	-	2	450	639	150
a4	SLAB TOP Along-X	10	4350	1	750	233.74	150
a5	SLAB TOP Along-Y	10	7200	1	55.2	239.34	150
TOTAL = 1447.00						1447	1.4 MT

REINFORCEMENT DETAILS OF KERS

Bar Mark	Dist. of Base (mm)	Length (mm)	No. of Ribs	Length of Each Rib (mm)	Total Weight (kg)	Shape (mm)
REINFORCEMENT DETAILS OF KERS						
K1	10	200	4	24	0.008	100
K2	10	-	2	4	0.008	100
TOTAL = 0.016					0.016	1.6 MT

- NOTE:-
1. All dimensions are in "mm".
 2. Grade of concrete M30 (Design mix) using 20 mm SS H.G.
 3. The reinforcing steel is of grade Fe 415 conforming to IS 1786 & IS 1302 of IS 1302:2011.
 4. Exposure Condition - Moderate, Seismic Zone - II.
 5. Clear cover to all reinforcements shall be 40mm.
 6. Grade of concrete M40 (Design mix) using 20 mm SS H.G. graded metal for crash barrier.
 7. Values to be used for construction shall conform to IS 1302 of IS 1302:2011.
 8. Present section shows of reinforcing grade shall be used under the reinforcement to ensure the required stress.
 9. Welding shall be as per IS 1302 of IS 1302:2011.
 10. Laps to reinforcement shall be provided as per IS 1302 of IS 1302:2011.
 11. Development length shall be as per IS 1302 of IS 1302:2011.
 12. Do not make any drawing below agreed dimensions only.



CLIENT:-

NAME OF WORK:-

TITLE:-

REINFORCEMENT
DETAILS OF
DECK SLAB

SHEET

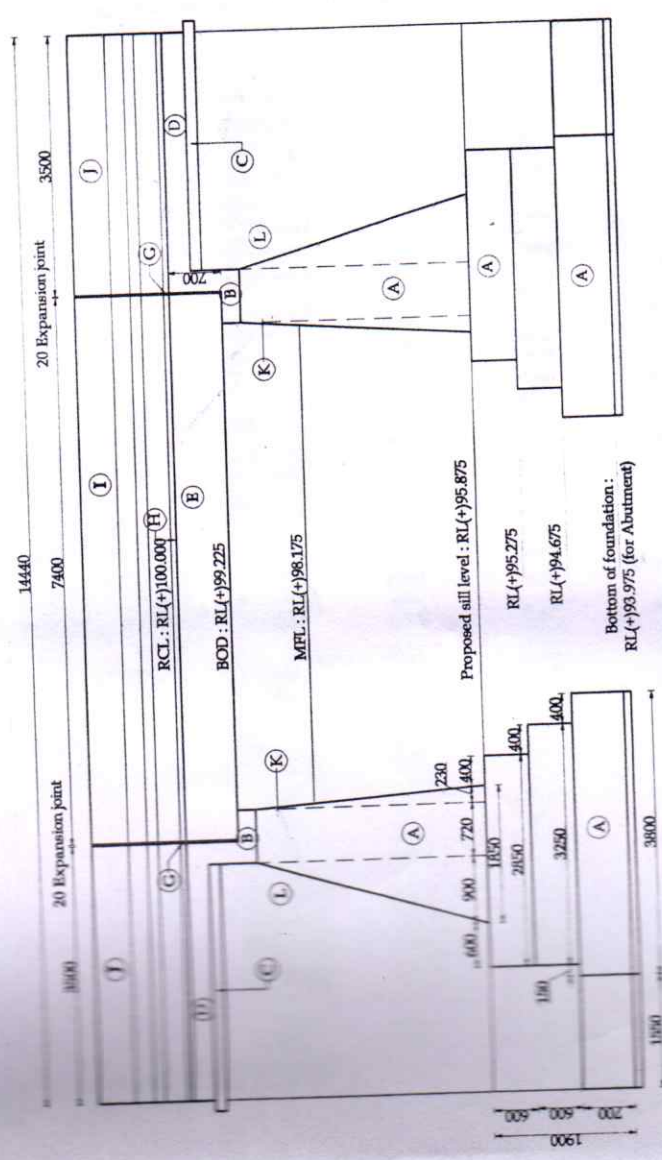
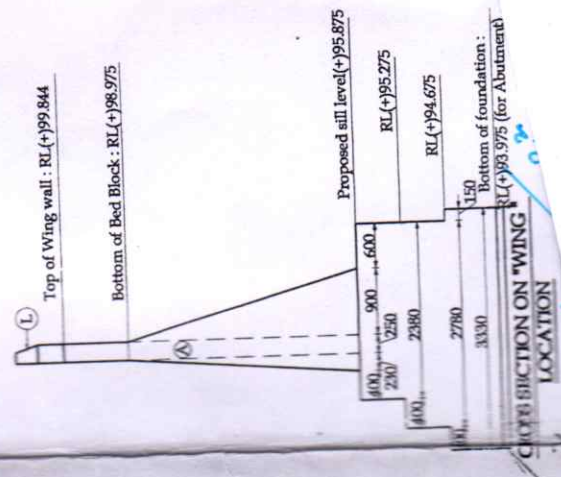
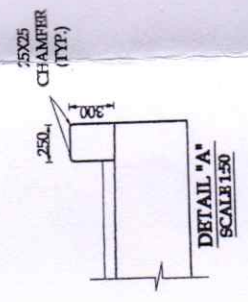
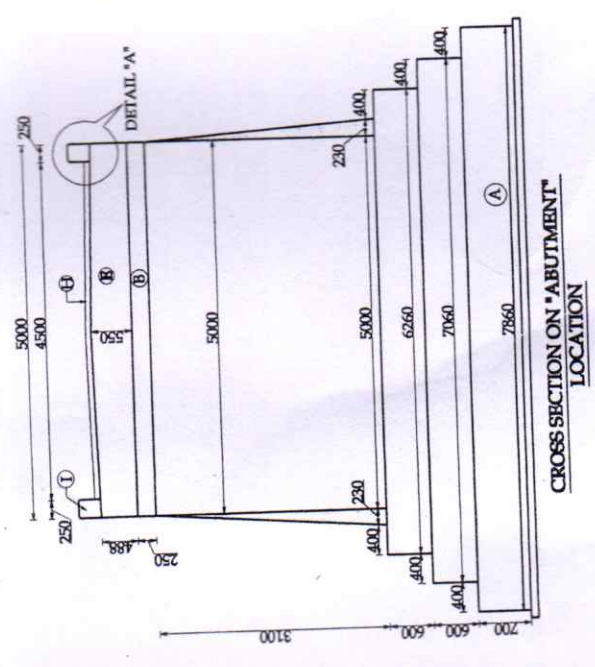
3 of 3

SCALE:- 1:50

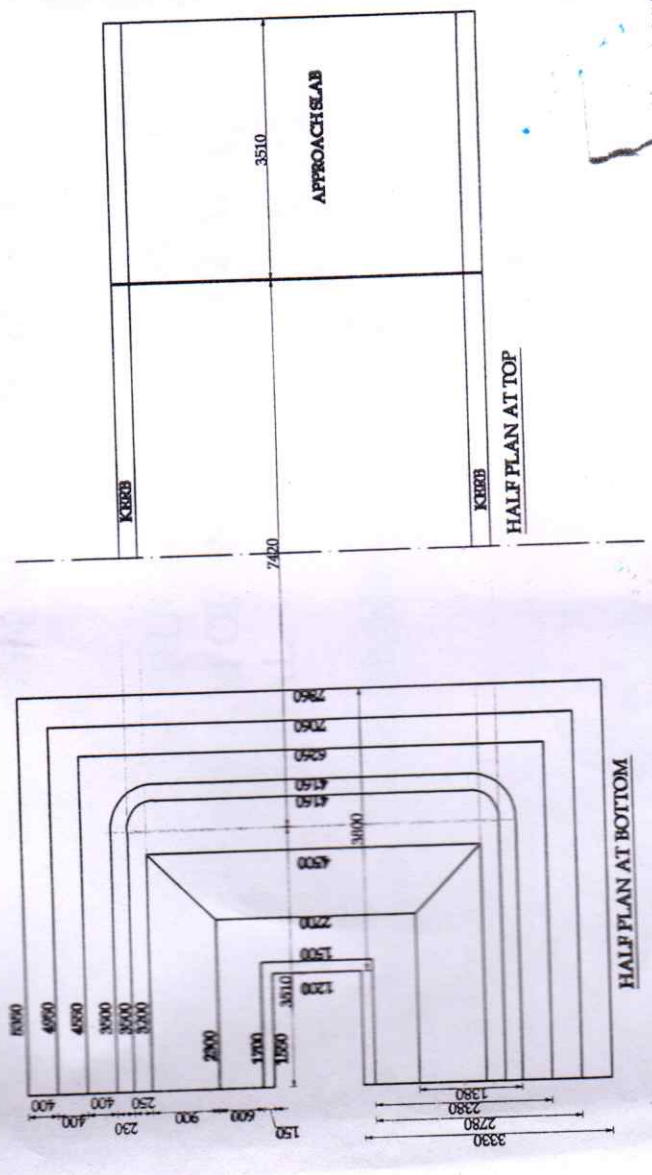
DATE

Rev. No./Date

- SPECIFICATIONS:**
- (A) Abutment and Wings in vibrated CC M 20 using 40mm ES HBG graded metal above and below all level.
 - (B) Red Block cum dirt wall in vibrated RCC M 30 using 20mm ES HBG graded metal 250mm thick for Abutment.
 - (C) Basecourse in CC M 20 using 40mm ES HBG Graded metal above 80mm thick.
 - (D) Approachslab in Vibrated RCC M 30 using 20mm ES HBG graded metal 420mm thick at centre & 300mm at edges.
 - (E) Deck slab in vibrated RCC M 30 using 20mm ES HBG graded metal 550mm thick at centre and 480mm thick at ends.
 - (F) Kraft paper for full width of deck seating.
 - (G) Expansion joint 20mm thick.
 - (H) Wearing coat in vibrated RCC M 30 using 20mm, 12mm & 6mm graded metal 75mm thick.
 - (I) Kerb in vibrated CC M 40 mix using 40mm graded metal for parapet over deck slab.
 - (J) Kerb in vibrated CC M 20 mix using 40mm graded metal for parapet over wings.
 - (K) PVC seepage pipe 100mm dia at 1.00m intervals placed in abutment and wings.
 - (L) Filter media behind abutment and wings 600mm thick as per IRC 78-2000.
 - (M) G.I Drainage spout 100mm dia.



LONGITUDINAL SECTION



TITLE:-		SHEET	
DETAILED LONGITUDINAL & PLAN		1 of 3	
SCALE - 1:60		DWG / H0 / 1	
NAME OF WORK:-		Date	
CLIENT:-		Revision/Issue	
		No.	