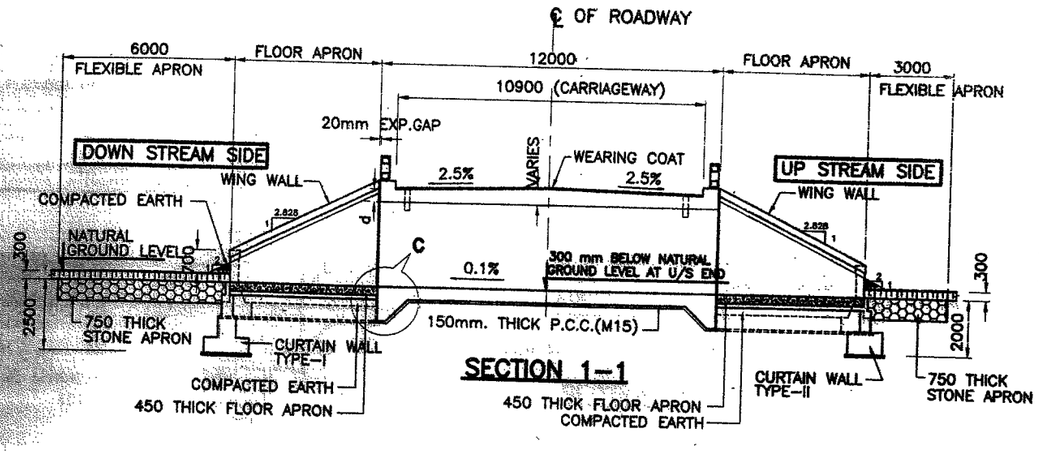
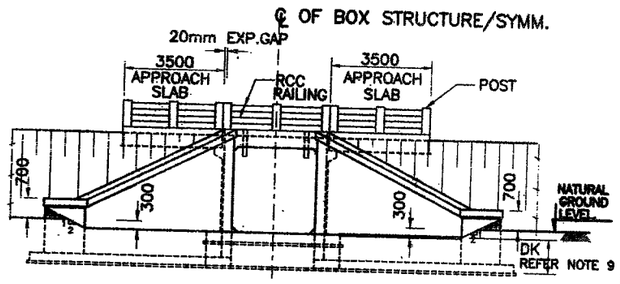
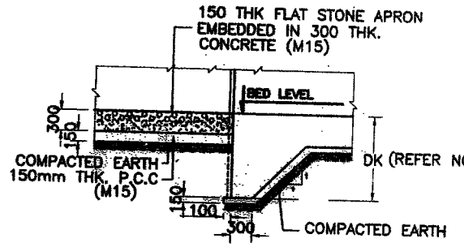
DRG.NO. SD/102

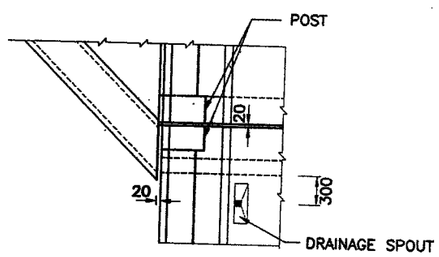




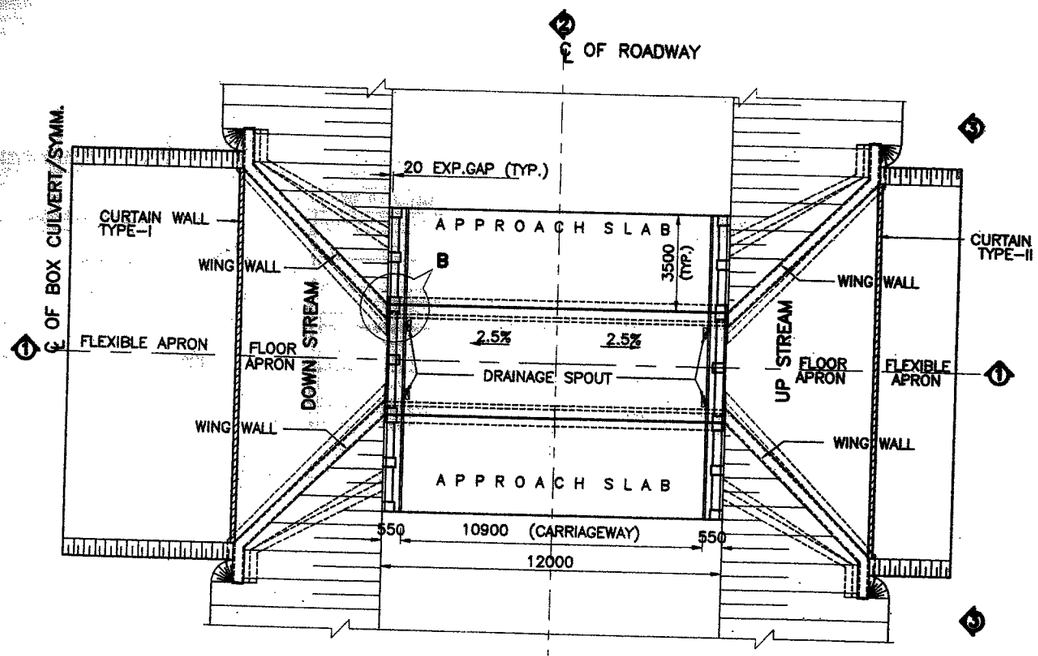
VIEW 3–3



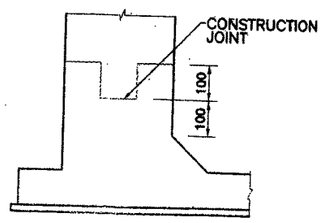
DETAIL – C



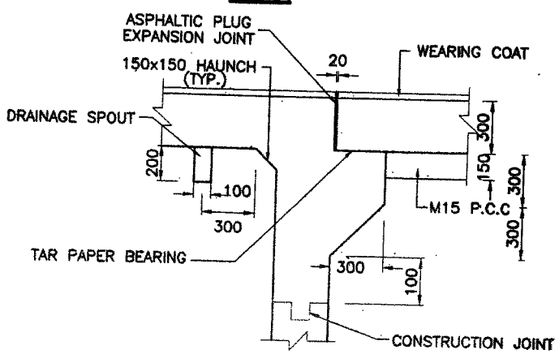
DETAIL – B



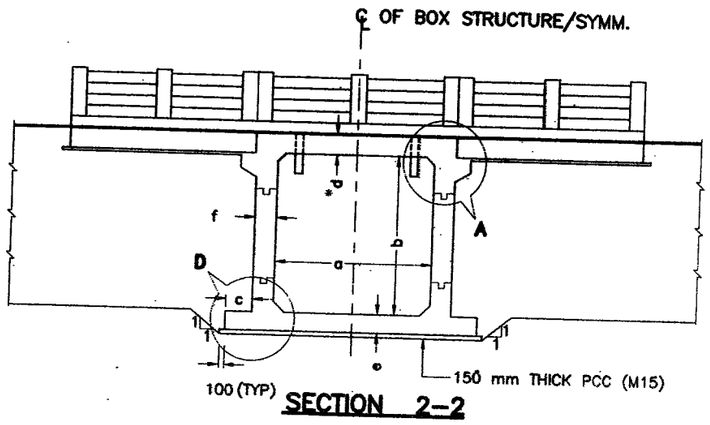
PLAN



DETAIL D



DETAIL – A



SECTION 2–2

*d DECK SLAB THICKNESS AT INNER EDGE OF KERB AS SHOWN IN SECTION 1–1

TABLE SHOWING SALIENT DIMENSIONS

BOX CELL DESIGNATION Nc/ab/Ec	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	REQUIRED BEARING CAPACITY CATEGORY	DESIGN BASE PRESSURE (T/M^2)	ALLOWABLE DRAWDOWN AT A TIME (M)
1/22/0	2000	2000	500	350	380	300	C	11.62	0.00
1/23/0	2000	3000	1300	370	420	350	C	11.01	2.98
1/33/0	3000	3000	900	420	420	420	C	10.50	2.15
1/34/0	3000	4000	1700	450	480	480	C	11.37	4.81
1/43/0	4000	3000	400	450	500	500	C	10.53	1.29
1/44/0	4000	4000	1200	480	550	550	C	11.07	3.99
1/45/0	4000	5000	1900	520	620	630	C	12.48	6.14
1/53/0	5000	3000	300	500	570	570	B	9.83	1.73
1/54/0	5000	4000	800	520	600	620	C	10.66	3.40
1/55/0	5000	5000	1500	580	680	700	C	12.40	5.81
1/63/0	6000	3000	300	680	720	720	B	9.88	2.96
1/64/0	6000	4000	300	680	720	750	C	10.93	3.18
1/65/0	6000	5000	1100	680	750	750	C	11.77	5.35
1/66/0	6000	6000	1800	700	800	850	C	13.21	7.50
1/75/0	7000	5000	600	750	850	850	C	11.59	4.86
1/76/0	7000	6000	1200	780	920	950	C	13.00	6.93
1/77/0	7000	7000	1300	780	950	950	C	13.10	7.18
1/85/0	8000	5000	300	800	950	950	C	11.37	4.83
1/86/0	8000	6000	900	820	970	1000	C	12.52	6.56
1/87/0	8000	7000	1300	850	1100	1200	C	14.36	8.62

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE MENTIONED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
2. FOR GENERAL NOTES AND REFERENCE DRAWINGS REFER DRG. NO. SD/101.
3. FOR REINFORCEMENT DETAILS REFER DRG. NO. SD/108.
4. FOR DETAILS OF WING WALL REFER DWG. NO. SD/113.
5. SOIL DENSITY ON THE BACKFILL SHOULD CONFORM TO CLAUSE 305.2.1.5 OF MOST SPECIFICATION.
6. NET BEARING CAPACITY REQUIRED FOR SOIL IS DIVIDED IN FOUR CATEGORIES AS SHOWN BELOW :

CATEGORY	::	NET BEARING CAPACITY REQUIRED FOR SOIL
A	::	5 T/M^2
B	::	10 T/M^2
C	::	15 T/M^2
D	::	20 T/M^2

7. SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
8. DESIGNS ARE GIVEN FOR THE BOX CELL CULVERTS ONLY. THESE HAVE NO BEARING WITH DESIGN OF EMBANKMENT WHICH WILL BE TAKEN UP BY ENGINEER–IN–CHARGE SEPERATELY
9. 'DK' IS DEPTH OF KEY AT BASE SLAB.

FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UPTO 900mm	1200mm.
GREATER THAN 900mm	e+300mm

e = BASE SLAB THICKNESS

GOVERNMENT OF INDIA
MINISTRY OF SURFACE TRANSPORT
(ROADS WING) , NEW DELHI.

STANDARD DRAWINGS FOR BOX CELL STRUCTURES

SINGLE CELL R.C.C BOX CULVERTS
2m x 2m TO 8m x7m
(WITHOUT EARTH CUSHION)
GENERAL ARRANGEMENT

DESIGNED BY	CHECKED BY	APPROVED FOR ISSUE BY	1999
(A.R.GHOSH) CES (I) LTD	(M.C.TANDON) TCPL	(C.C.BHATTACHARYA) C.E (R) S&R, MOST	DRG. NO. SD/102

Source: MoST Standard Drawings for Box Cell Culverts (2000) - older reference, verify with current IRC / MoRTH. Scan cleaned by helptheengineer.com