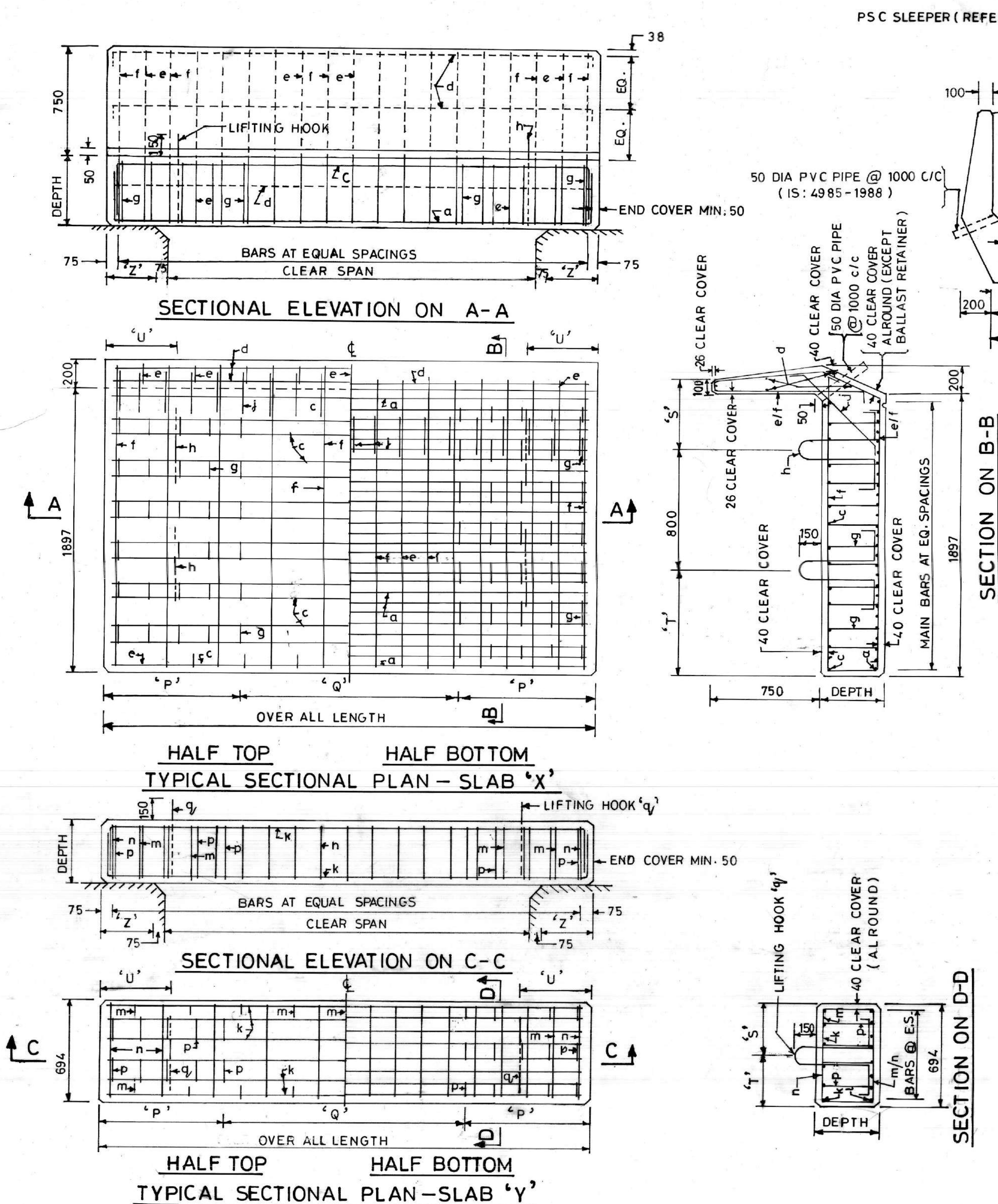
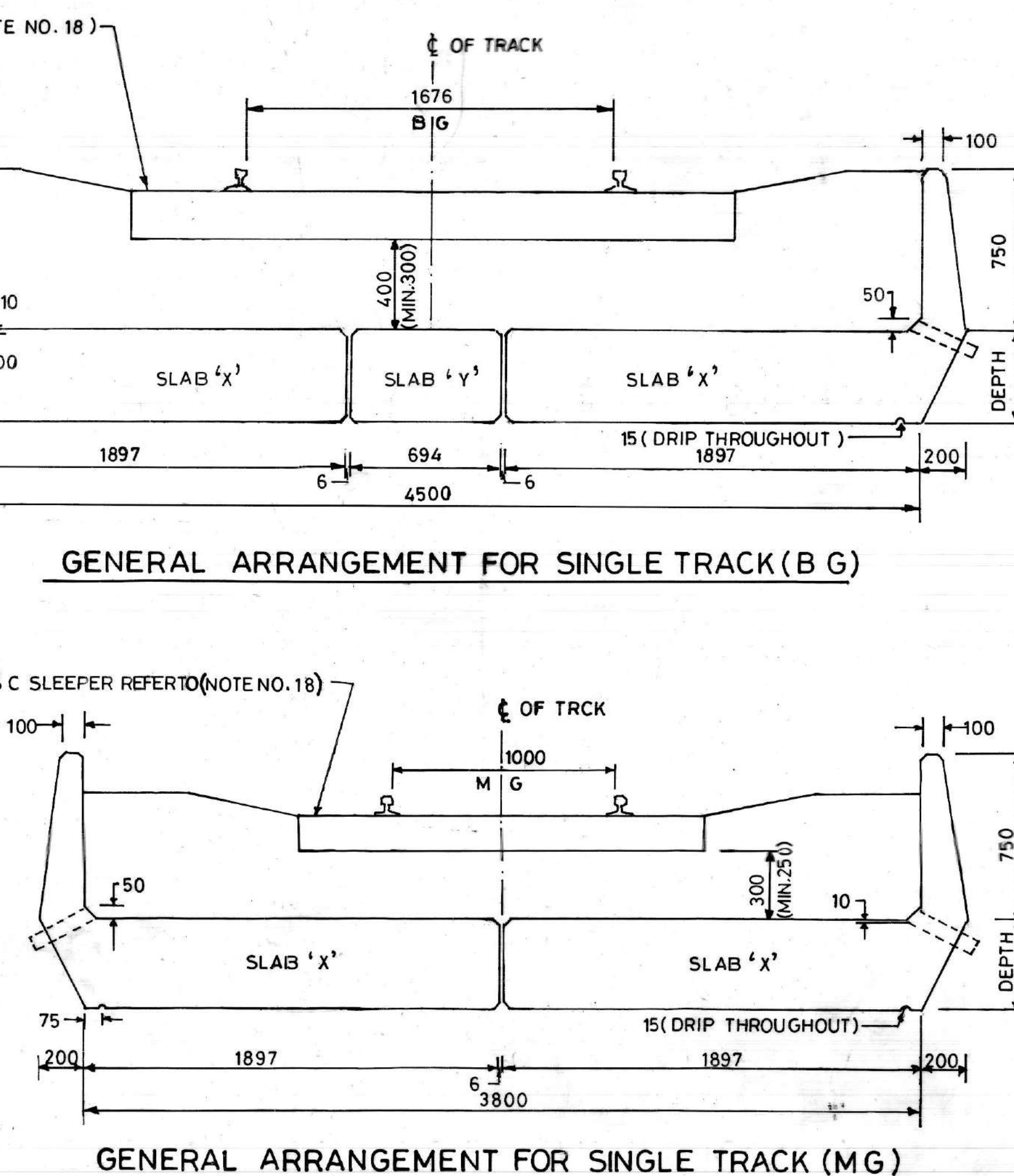


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- ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
- ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED BARS CONFORMING TO IS:1786-1985.
- SPACINGS OF REINFORCEMENT ARE WITH REFERENCE TO THE CENTRE LINES OF BARS.
- CONTROLLED CONCRETE OF WORKS CUBE STRENGTH AS SPECIFIED IN THIS DRAWING SHALL BE USED. THE LETTER 'M' REFERS TO THE MIX AND NUMBER INDICATES CHARACTERISTIC STRENGTH AT 28 DAYS IN N/Sq. m.
- MAXIMUM SIZE OF AGGREGATE TO BE USED IS 20 mm.
- WEIGHT OF REINFORCED CONCRETE IS ASSUMED TO BE 25 kN/Cu m.
- THE SLABS HAVE BEEN DESIGNED FOR 400 mm CUSHION AND CHECKED FOR 300 mm FOR B G THE MINIMUM CUSHION FOR M G SLAB IS 250 mm VIDE CLAUSE 2.2 OF BRIDGE RULES.
- ALL CORNERS OF SLAB ARE TO HAVE A CHAMFER OF 25 mm UNLESS OTHERWISE SHOWN. HOWEVER ABUTMENT WILL HAVE A CHAMFER OF 75 mm.
- STABILITY DURING CONSTRUCTION SHALL BE ENSURED BY BINDING OF REINFORCEMENT AT SUITABLE LOCATIONS.
- FOR QUANTITY AND BAR BENDING SCHEDULE REFER TO DRAWING NOS. RDSO/B-1600/1,2,3,4 & 5.
- TOP SURFACE OF THE SLAB SHOULD BE GIVEN A FEW COATS OF COALTAR/BITUMEN OR ANY OTHER SUITABLE WATER-PROOFING TREATMENT BEFORE THE TRACK IS LAID ON THEM.
- UNITS SHOULD BE PROVIDED WITH A UNIFORM BEDDING BY PLACING IT OVER A LAYER OF CEMENT AND CAST-IRON BORINGS IN 1:1 PROPORTION. THE PASTE SHOULD BE OF STIFF CONSISTENCY.
- THESE SLABS ARE SUITABLE FOR CURVES UP TO 10° ON B G AND UP TO 16° ON M G WITH MAXIMUM PERMISSIBLE SPEED SUBJECT TO LIMITATION FOR CURVATURE OR 160 km/h ON B G AND 100 km/h ON M G.
- THESE SLABS CAN ALSO BE USED FOR REPLACEMENT OF EXISTING SPANS, IF CLEAR SPAN OF EXISTING SLAB IS LESS THAN THAT OF PROPOSED SLAB, SUBJECT TO AVAILABILITY OF BEARING ON ABUTMENT/PIER.
- DATE OF CASTING AND NAME OF CASTING DEPOT SHOULD BE ENGRAVED ON EACH UNIT.

NOTE



DESCRIPTION OF SLAB AS PER CONCRETE GRADE

CLEAR SPAN 2.44 m									
MARK OF UNIT	CONC-RETE GRADE	DEPTH OF SLAB (mm)	OVER ALL LENGTH OF SLAB (mm)	POSITION OF LIFTING HOOK (mm)			WEIGHT OF EACH UNIT (kN)	BEARING AT SUPPORTS	
				'S'	'T'	'U'		PRESSURE 'Z'	'Z'
SLAB-X	M-20	405	3290	477	720	500	75.70	417.6	350
	M-25	370	3290	467	730	500	69.90	415.1	350
	M-30	345	3290	459	738	500	65.80	413.3	350
SLAB-Y	M-20	405	3290	347	347	500	23.00	417.6	350
	M-25	370	3290	347	347	500	21.00	415.1	350
	M-30	345	3290	347	347	500	19.50	413.3	350

- THESE SLABS CAN BE USED IN YARDS CARRYING TURNOUT OR MULTIPLE LINE SECTIONS ELIMINATING BALLAST RETAINER PORTION AND SHAPE OF BARS 'e' & 'f' MAY BE MODIFIED, BAR 'g' MAY BE REMOVED, IF NECESSARY.
- BALLAST CUSHION MAY BE ADJUSTED TO CATER FOR SUPER-ELEVATION WHILE PLACING THE SLABS ON CURVES.
- ANY TYPE OF SLEEPER MAY BE USED.
- IN CASE THE STRAIGHT LENGTH OF EXITING PIER/ABUTMENT ON M G ROUTES IS LESS THAN 3800 mm THE WIDTH OF END UNIT MARKED 'X' MAY BE REDUCED UP TO 1147 mm (DECK WIDTH = 2.3 m) SUBSEQUENTLY AT THE TIME OF GAUGE CONVERSION FROM M G TO B G THE WIDTH OF MIDDLE UNIT MARKED 'Y' SHALL BE INCREASED SUITABLY. IN SUCH CASES THE LONGITUDINAL REINFORCEMENT SHALL PROPORTIONATELY REDUCED/INCREASED.
- FOR DETAILS OF 2 UNIT SLABS FOR B G REFER TO DRAWING NO. RDSO/B-1597, 1598 & 1599.
- FOR NEW CONSTRUCTION, MINIMUM SPAN SHALL NOT BE LESS THAN 1.0 METRE.
- TO FACILITATE THE WORKING OF BALLAST CLEANING MACHINE, LIFTING HOOKS SHALL BE CUT AFTER THE PLACEMENT OF THE SLAB AND SUITABLE WATER PROOFING COAT SHALL BE APPLIED ON THE CUT.
- DEN/Sr. DEN OR OFFICER IN CHARGE OF CONCRETE DEPOT SHALL ENSURE QUALITY CONTROL, MINIMUM CHARACTERISTIC STRENGTH OF CONCRETE AND CORRECT PLACEMENT OF BARS TO ENSURE CLEAR COVER.

IS:1786-1985		200 1000	200 400 600 800	1:20
BRIDGE RULES		400 2000	400 800 1200 1600	1:40
IRS CONCRETE BRIDGE CODE				

SPECIFICATION SCALE ALT DESCRIPTION DATE

DESCRIPTION OF SLAB AS PER CONCRETE GRADE

CLEAR SPAN 0.61 m									
MARK OF UNIT	CONC-RETE GRADE	DEPTH OF SLAB (mm)	OVER ALL LENGTH OF SLAB (mm)	POSITION OF LIFTING HOOK (mm)			WEIGHT OF EACH UNIT (kN)	BEARING AT SUPPORTS	
				'S'	'T'	'U'		PRESSURE 'Z'	'Z'
SLAB-X	M-20	280	1210	432	765	375	20.20	603.7	225
	M-25	265	1210	425	772	375	19.30	603.1	225
	M-30	245	1210	413	784	375	18.10	602.2	225
SLAB-Y	M-20	280	1210	347	347	375	5.80	603.7	225
	M-25	265	1210	347	347	375	5.50	603.1	225
	M-30	245	1210	347	347	375	5.10	602.2	225

CLEAR SPAN 0.915 m									
MARK OF UNIT	CONC-RETE GRADE	DEPTH OF SLAB (mm)	OVER ALL LENGTH OF SLAB (mm)	POSITION OF LIFTING HOOK (mm)			WEIGHT OF EACH UNIT (kN)	BEARING AT SUPPORTS	
				'S'	'T'	'U'		PRESSURE 'Z'	'Z'
SLAB-X	M-20	305	1515	444	753	375	27.20	590.5	225
	M-25	285	1515	435	762	375	25.70	589.4	225
	M-30	265	1515	425	772	375	24.20	588.3	225
SLAB-Y	M-20	305	1515	347	347	375	7.30	590.5	225
	M-25	285	1515	347	347	375	7.40	589.4	225
	M-30	265	1515	347	347	375	6.90	588.3	225

CLEAR SPAN 1.22 m									
MARK OF UNIT	CONC-RETE GRADE	DEPTH OF SLAB (mm)	OVER ALL LENGTH OF SLAB (mm)	POSITION OF LIFTING HOOK (mm)			WEIGHT OF EACH UNIT (kN)	BEARING AT SUPPORTS	
				'S'	'T'	'U'		PRESSURE 'Z'	'Z'
SLAB-X	M-20	335	1970	456	741	450	38.40	438.0	300
	M-25	310	1970	446	751	450	36.00	436.6	300
	M-30	290	1970	437	760	450	34.00	435.7	300
SLAB-Y	M-20	335	1970	347	347	450	11.30	438.0	300
	M-25	310	1970	347	347	450	10.50	436.6	300
	M-30	290	1970	347	347	450	9.80	435.7	300

CLEAR SPAN 1.83 m									
MARK OF UNIT	CONC-RETE GRADE	DEPTH OF SLAB (mm)	OVER ALL LENGTH OF SLAB (mm)	POSITION OF LIFTING HOOK (mm)			WEIGHT OF EACH UNIT (kN)	BEARING AT SUPPORTS	
				'S'	'T'	'U'		PRESSURE 'Z'	'Z'
SLAB-X	M-20	375	2580	469	728	450	55.50	447.6	300
	M-25	345	2580	459	738	450	51.60	445.6	300
	M-30	320	2580	450	747	450	48.40	443.9	300
SLAB-Y	M-20	375	2580	347	347	450	16.70	447.6	300
	M-25	345	2580	347	347	450	15.30	445.6	300
	M-30	320	2580	347	347	450	14.20	443.9	300

CONVERSION FACTOR

1 kN/m ² = 0.102 t/m ²
1 kN = 0.102 t

R D S O

PRECAST R C BRIDGE SLAB (METRE GAUGE)
SPANS 0.61, 0.915, 1.22, 1.83 AND 2.44 m
(SUITABLE FOR MMG-88 AND WITH ADDITIONAL
UNIT FOR MBG-87 LOADING FOR
GAUGE CONVERSION)
GENERAL ARRANGEMENT

PROVISIONAL

RDSO/B-1600

CALCULATION REGISTER NO.	DRAWN BY	TRACED BY	SCRUTINISED & CHECKED BY	SCRUTINISED & RECOMMENDED BY	APPROVED BY	FILE NO.
PAGE NO.	DONE BY	CHECKED BY	ADG (B & S) CSI	JDS (B & S) CBI	DS (B & S)	NOTIFICATION NO.

ARRANGEMENT OF SHEAR REINFORCEMENT

(REFER DRG. NO. RDSO/B-1600)

GRADE OF CONCRETE	MARK OF UNIT	PORTION "P"		PORTION "Q"		TOTAL NO. OF STIRRUPS	MARK OF BARS
		LENGTH (mm)	NO. OF STIRRUPS	LENGTH (mm)	NO. OF STIRRUPS		
M-20	"X"	440	4	330	—	8	g
	"Y"	410	4	390	—	8	p
M-25	"X"	475	5	260	—	10	g
	"Y"	470	4	270	—	8	p
M-30	"X"	495	5	220	—	10	g
	"Y"	425	4	360	—	8	p

QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	SLAB-"X" (END UNIT)			SLAB-"Y" (MID. UNIT)		
	CONCRETE GRADE			CONCRETE GRADE		
	M-20	M-25	M-30	M-20	M-25	M-30
WEIGHT (kN)	20.20	19.30	18.10	5.80	5.50	5.10
CUBICAL QUANTITY (cu m)	0.809	0.773	0.725	0.232	0.219	0.203
NET WEIGHT OF BARS # 16 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 12 (kg)	35.9	32.6	34.0	12.3	12.1	14.1
NET WEIGHT OF BARS # 10 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 8 (kg)	38.5	37.6	39.1	11.3	11.0	10.2
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	81.84	77.22	80.41	25.96	25.41	26.73
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	0.802	0.757	0.788	0.255	0.249	0.262

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BAR BENDING SCHEDULE FOR SLAB-"X" (END UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "a"						BAR "c"						BAR "d"						BAR "e"										BAR "f"										BAR "g"										BAR "j"								
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	s	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	p	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	280	12	25	1110	176	1395	34875	8	14	1086	172	1385	19390	8	5	1110	75	1265	6325	8	3	1817	934	200	280	75	48	727	4135	12405	8	4	1817	934	200	280	75	48	727	2002	6115	24460	8	8	12	75	102	200	136	176	3875	31000	8	7	523	100	725	5075
M-25	265	12	23	1110	161	1365	31395	8	12	1086	157	1355	16260	8	5	1110	75	1265	6325	8	3	1817	923	185	268	75	48	727	4095	12285	8	4	1817	923	185	268	75	48	727	2002	6075	24300	8	10	10	75	108	185	148	188	3230	32300	8	7	502	100	705	4935
M-30	245	12	25	1110	141	1325	33125	8	14	1086	137	1315	18410	8	5	1110	75	1265	6325	8	3	1817	908	165	251	75	48	727	4045	12135	8	4	1817	908	165	251	75	48	727	2002	6020	24080	8	10	12	75	102	165	136	176	3455	34550	8	7	473	100	675	4725

(CONTINUED)...

CONCRETE GRADE	DEPTH (mm)	BAR "h"							
									
		DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	280	12	4	370	75	250	99	1355	5420
M-25	265	12	4	355	75	250	99	1325	5300
M-30	245	12	4	335	75	250	99	1285	5140

BAR BENDING SCHEDULE FOR SLAB-"Y" (MIDDLE UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "i"							BAR "k"						BAR "m"							BAR "n"							BAR "p"										BAR "q"									
		DIA	NOS REQD	k	i	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	i	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	i	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	i	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	i	m	n	LENGTH OF ONE BAR	TOTAL LENGTH			
M-20	280	12	8	1110	176	1395	11160	8	6	1086	172	1385	8310	8	3	614	200	75	1120	3360	8	4	614	200	75	1710	6840	8	8	4	75	—	200	154	194	1310	10480	12	2	370	75	250	99	1355	2710			
M-25	265	12	8	1110	161	1365	10920	8	6	1086	157	1355	8130	8	3	614	185	75	1090	3270	8	4	614	185	75	1680	6720	8	8	4	75	—	185	154	194	1250	10000	12	2	355	75	250	99	1325	2650			
M-30	245	12	10	1110	141	1325	13250	8	6	1086	137	1315	7890	8	3	614	165	75	1050	3150	8	4	614	165	75	1640	6560	8	8	4	75	—	165	118	158	1060	8480	12	2	335	75	250	99	1285	2570			

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
2. FOR GENERAL NOTES ETC. AND DETAILS OF SLABS REFER TO DRG. NO. RDSO/B-1600.
3. FOR NOMENCLATURE OF SLABS & MARKING OF BARS REFER TO DRG. NO. RDSO/B-1600.
4. BAR BENDING DIMENSIONS ARE OVER OUTER EDGES. BARS SHOULD BE PLACED IN ACCORDANCE WITH THE TABLE SHOWN ABOVE FOR EACH CONCRETE GRADE.
5. PROFILES OF BAR "p" & "q" ARE TYPICAL. THE NUMBER OF LEGS MAY VARY DEPENDING UPON THE SPAN AND WIDTH OF THE UNIT.
6. THIS DRAWING CONTAINS THREE DESIGNS WITH CONCRETE GRADE M-20, M-25 & M-30.

CONVERSION FACTOR
1kN/m ² = 0.102t/m ²
1kN = 0.102t

R D S O

PRECAST RC SLAB (METRE GAUGE)
SPAN 0.61 m
(SUITABLE FOR MMC-88, AND WITH
ADDITIONAL UNIT FOR MBG-87 LOADING
ON GAUGE CONVERSION)
QUANTITY AND BAR BENDING SCHEDULE

PROVISIONAL

RDSO/B-1600/1

NOTE

IS: 1786-1985
BRIDGE RULES
IRS CONCRETE BRIDGE CODE

NOT TO SCALE

SPECIFICATION

SCALE

ALT

DESCRIPTION

DATE

DESIGN BY: COMPUTER PROGRAMME	TECHNICAL BY: ABIDASHUKLA RINCHATTERJI	SCRUTINISED & CHECKED BY:	SCRUTINISED & RECOMMENDED BY:	APPROVED BY:	FILE NO.
REF. NO. DONE BY: K.C. JAIN	CHECKED BY: D.N. GOYAL	ADG (B&S) CS 11	JDS (B&S) CB1	DS (B&S)	NOTIFICATION NO.

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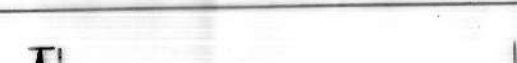
ARRANGEMENT OF SHEAR REINFORCEMENT
(REFER DRG. NO. RDSO/B-1600)

GRADE OF CONCRETE	MARK OF UNIT	PORTION "P"		PORTION "Q"		TOTAL NO. OF STIRRUPS	MARK OF BARS
		LENGTH (mm)	NO. OF STIRRUPS	LENGTH (mm)	NO. OF STIRRUPS		
M-20	"X"	485	4	545	—	8	g
	"Y"	440	4	635	—	8	p
M-25	"X"	615	5	285	—	10	g
	"Y"	560	4	395	—	8	p
M-30	"X"	635	5	245	—	10	g
	"Y"	515	4	485	—	8	p

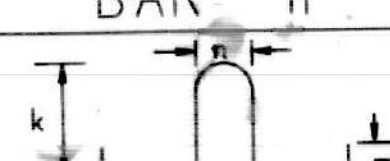
QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	SLAB-"X" (END UNIT)			SLAB-"Y" (MID. UNIT)		
	CONCRETE GRADE			CONCRETE GRADE		
	M-20	M-25	M-30	M-20	M-25	M-30
WEIGHT (kN)	27.20	25.70	24.20	7.90	7.40	6.9
CUBICAL QUANTITY (cu.m)	1.090	1.029	0.969	0.317	0.296	0.275
NET WEIGHT OF BARS # 16 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 12 (kg)	43.93	45.83	47.82	14.93	17.60	17.17
NET WEIGHT OF BARS # 10 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 8 (kg)	51.49	48.11	49.62	14.87	12.90	12.42
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	104.96	103.33	107.18	32.78	33.55	32.55
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	1.029	1.013	1.051	0.321	0.329	0.319

BAR BENDING SCHEDULE FOR SLAB-"X" (END UNIT)

BAR BENDING SCHEDULE FOR SLAB - X (END UNIT)																																																													
CONCRETE GRADE	DEPTH (mm)	BAR "a"						BAR "c"						BAR "d"						BAR "e"										BAR "f"										BAR "g"										BAR "j"											
																																																													
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	s	t	u	v	w	x	y	z	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	s	t	u	v	w	x	y	z	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	p
M-20	305	12	25	1415	201	1750	43750	8	14	1391	197	1740	24360	8	5	1415	75	1565	7825	8	5	1817	953	225	302	75	48	727	4200	21000	8	6	1817	953	225	302	75	48	727	2002	6180	37080	8	8	12	75	102	225	136	176	4175	33400	8	11	558	100	760	8360			
M-25	285	12	27	1415	181	1705	46035	8	14	1391	177	1700	23800	8	5	1415	75	1565	7825	8	4	1817	938	205	285	75	48	727	4150	16600	8	5	1817	938	205	285	75	48	727	2002	6125	30625	8	10	12	75	96	205	124	164	3795	37950	8	9	530	100	730	6570			
M-30	265	12	29	1415	161	1670	48430	8	16	1391	157	1660	26560	8	5	1415	75	1565	7825	8	4	1817	923	185	268	75	48	727	4095	16380	8	5	1817	923	185	268	75	48	727	2002	6075	30375	8	10	14	75	91	185	114	154	3975	39750	8	9	502	100	705	6345			

(CONTINUED)...

CONCRETE GRADE	DEPTH (mm)	BAR "h"							
									
		DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	305	12	4	395	75	250	99	1405	5620
M-25	285	12	4	375	75	250	99	1365	5460
M-30	265	12	4	355	75	250	99	1325	5300

BAR BENDING SCHEDULE FOR SLAB-"Y" (MIDDLE UNIT)

BAR BENDING SCHEDULE FOR SLAB - 1 (MIDDLE UNIT)																																																	
CONCRETE GRADE	DEPTH (mm)	BAR "i"						BAR "k"						BAR "m"						BAR "n"						BAR "p"										BAR "q"													
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH							
M-20	305	12	8	1415	201	1745	13960	8	6	1391	197	1740	10440	8	5	614	225	75	1170	5850	8	6	614	225	75	1760	10560	8	8	4	75	—	225	154	194	1410	11280	12	2	395	75	250	99	1405	2810				
M-25	285	12	10	1415	181	1705	17050	8	6	1391	177	1700	10200	8	4	614	205	75	1130	4520	8	5	614	205	75	1720	8600	8	8	4	75	—	205	118	158	1220	9760	12	2	375	75	250	99	1365	2730				
M-30	265	12	10	1415	161	1665	16650	8	6	1391	157	1660	9960	8	4	614	185	75	1090	4360	8	5	614	185	75	1680	8400	8	8	4	75	—	185	118	158	1140	9120	12	2	355	75	250	99	1325	2650				

CONVERSION FACTOR
1kN/m ² = 0.102t/m ²
1kN = 0.102t

RDSO
PRECAST RC BRIDGE SLAB (METRE GAUGE)
SPAN 0.915m
(SUITABLE FOR MMG-88, AND WITH
ADDITIONAL UNIT FOR MBG-87 LOADING
ON GAUGE CONVERSION)
QUANTITY AND BAR BENDING SCHEDULE
PROVISIONAL
RDSO/B-1600/2

- 1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
- 2. FOR GENERAL NOTES ETC. AND DETAILS OF SLABS REFER TO DRG. NO. RDSO/B-1600.
- 3. FOR NOMENCLATURE OF SLABS & MARKING OF BARS REFER TO DRG. NO. RDSO/B-1600.
- 4. BAR BENDING DIMENSIONS ARE OVER OUTER EDGES. BARS SHOULD BE PLACED IN ACCORDANCE WITH THE TABLE SHOWN ABOVE FOR EACH CONCRETE GRADE.
- 5. PROFILES OF BAR "p" & "q" ARE TYPICAL. THE NUMBER OF LEGS MAY VARY DEPENDING UPON THE SPAN AND WIDTH OF THE UNIT.
- 6. THIS DRAWING CONTAINS THREE DESIGNS WITH CONCRETE GRADE M-20, M-25 & M-30.

IS: 1786-1985
BRIDGE RULES
IRS CONCRETE BRIDGE CODE

NOT TO SCALE

NOTE

SPECIFICATION SCALE ALT DESCRIPTION DATE

DESIGN BY COMPUTER PROGRAMME REF. NO. RC/S-18	DONE BY: K.C. JAIN CHECKED BY: D.N. GOYAL	TECHNICAD BY: ABID SHUKLA & CHATTERJI CHECKED BY: JAIN & GOYAL	SCRUTINISED & CHECKED BY: ADE (B&S) CS II	SCRUTINISED & RECOMMENDED BY: JDS (B&S) CBI	APPROVED BY: DS (B&S)	FILE NO. NOTIFICATION NO.
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ARRANGEMENT OF SHEAR REINFORCEMENT

(REFER DRG. NO. RDSO/B-1600)

GRADE OF CONCRETE	MARK OF UNIT	PORTION "P"		PORTION "Q"		TOTAL NO. OF STIRRUPS	MARK OF BARS
		LENGTH (mm)	NO. OF STIRRUPS	LENGTH (mm)	NO. OF STIRRUPS		
M-20	"X"	650	4	670	—	8	9
	"Y"	530	4	910	—	8	P
M-25	"X"	630	4	710	—	8	9
	"Y"	620	4	730	—	8	P
M-30	"X"	600	4	770	—	8	9
	"Y"	575	4	820	—	8	P

QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	SLAB-"X" (END UNIT)			SLAB-"Y" (MID. UNIT)		
	CONCRETE GRADE			CONCRETE GRADE		
	M-20	M-25	M-30	M-20	M-25	M-30
WEIGHT (kN)	38.40	36.00	34.00	11.30	10.50	9.80
CUBICAL QUANTITY (cu m)	1.536	1.438	1.359	0.454	0.419	0.392
NET WEIGHT OF BARS # 16 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 12 (kg)	63.68	66.15	68.77	22.72	22.19	21.76
NET WEIGHT OF BARS # 10 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 8 (kg)	69.39	62.48	63.93	18.74	16.87	16.33
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	146.38	141.49	145.97	45.61	42.97	41.90
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	1.435	1.387	1.431	0.447	0.422	0.411

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BAR BENDING SCHEDULE FOR SLAB-"X" (END UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "a"										BAR "c"					BAR "d"					BAR "e"												BAR "f"												BAR "g"										BAR "j"					
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	s	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	p	LENGTH OF ONE BAR	TOTAL LENGTH			
M-20	335	12	29	1870	231	2265	65685	8	16	1846	227	2255	36080	8	5	1870	75	2025	10125	8	7	1817	975	255	329	75	48	727	4280	29960	8	8	1817	975	255	329	75	48	727	2002	6255	50040	8	8	14	75	91	255	114	154	4955	39640	8	15	600	100	805	12075			
M-25	310	12	31	1870	206	2215	68665	8	16	1846	202	2205	35280	8	5	1870	75	2025	10125	8	6	1817	956	230	306	75	48	727	4215	25290	8	7	1817	956	230	306	75	48	727	2002	6190	43330	8	8	14	75	88	230	108	148	4520	36160	8	13	565	100	770	10010			
M-30	290	12	33	1870	186	2175	71775	8	18	1846	182	2165	38970	8	5	1870	75	2025	10125	8	6	1817	942	210	289	75	48	727	4160	24960	8	7	1817	942	210	289	75	48	727	2002	6140	42980	8	8	16	75	83	210	98	138	4660	37280	8	13	537	100	740	9620			

(CONTINUED)...

CONCRETE GRADE	DEPTH (mm)	BAR "h"							
		DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	335	12	4	425	75	250	99	1465	5860
M-25	310	12	4	400	75	250	99	1415	5660
M-30	290	12	4	380	75	250	99	1375	5500

BAR BENDING SCHEDULE FOR SLAB-"Y" (MIDDLE UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "i"						BAR "k"						BAR "m"						BAR "n"						BAR "p"						BAR "q"													
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	335	12	10	1870	231	2260	22600	8	6	1846	227	2255	13530	8	7	614	255	75	1230	8610	8	8	614	255	75	1820	14560	8	8	4	75	—	255	118	158	1420	11360	12	2	425	75	250	99	1465	2930
M-25	310	12	10	1870	206	2210	22100	8	6	1846	202	2205	13230	8	6	614	230	75	1180	7080	8	7	614	230	75	1770	12390	8	8	4	75	—	230	118	158	1320	10560	12	2	400	75	250	99	1415	2830
M-30	290	12	10	1870	186	2170	21700	8	6	1846	182	2165	12990	8	6	614	210	75	1140	6840	8	7	614	210	75	1730	12110	8	8	4	75	—	210	118	158	1240	9920	12	2	380	75	250	99	1375	2750

CONVERSION FACTOR
1 kN/m ² = 0.102 t/m ²
1 kN = 0.102 t

- ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
- FOR GENERAL NOTES ETC. AND DETAILS OF SLABS REFER TO DRG. NO. RDSO/B-1600.
- FOR NOMENCLATURE OF SLABS & MARKING OF BARS REFER TO DRG. NO. RDSO/B-1600.
- BAR BENDING DIMENSIONS ARE OVER OUTER EDGES. BARS SHOULD BE PLACED IN ACCORDANCE WITH THE TABLE SHOWN ABOVE FOR EACH CONCRETE GRADE.
- PROFILES OF BAR "p" & "q" ARE TYPICAL. THE NUMBER OF LEGS MAY VARY DEPENDING UPON THE SPAN AND WIDTH OF THE UNIT.
- THIS DRAWING CONTAINS THREE DESIGNS WITH CONCRETE GRADE M-20, M-25 & M-30.

NOTE

IS: 1786-1985
BRIDGE RULES
IRS CONCRETE BRIDGE CODE

NOT TO SCALE

SPECIFICATION

SCALE

ALT DESCRIPTION DATE

PROVISIONAL

RDSO/B-1600/3

DESIGN BY COMPUTER PROGRAMME	TECHNICAL BY: ABID, SHUKLA	SCRUTINISED & CHECKED BY:	SCRUTINISED & RECOMMENDED BY:	APPROVED BY:	FILE NO.
REF. NO. DONE BY: K.C. JAIN	RC/S-18	CHECKED BY: D.N. GOYAL	CHECKED BY: JAINAGOYAL	ADE (BAS) CS II	JDS (BAS) CBI
				DS (BAS)	NOTIFICATION NO.

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ARRANGEMENT OF SHEAR REINFORCEMENT

(REFER DRG. NO. RDSO/B-1600)

GRADE OF CONCRETE	MARK OF UNIT	PORTION "P"		PORTION "Q"		TOTAL NO. OF STIRRUPS	MARK OF BARS
		LENGTH (mm)	NO. OF STIRRUPS	LENGTH (mm)	NO. OF STIRRUPS		
M-20	"X"	770	4	1040	—	8	g
	"Y"	710	4	1160	—	8	p
M-25	"X"	695	5	1190	—	10	g
	"Y"	620	4	1340	—	8	p
M-30	"X"	775	6	1030	—	12	g
	"Y"	730	5	1120	—	10	p

QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	SLAB-"X" (END UNIT)			SLAB-"Y" (MID. UNIT)		
	CONCRETE GRADE			CONCRETE GRADE		
	M-20	M-25	M-30	M-20	M-25	M-30
WEIGHT (kN)	55.50	51.60	48.40	17.60	15.30	14.20
CUBICAL QUANTITY (cu m)	2.219	2.065	1.936	0.666	0.612	0.568
NET WEIGHT OF BARS # 16 (kg)	106.52	113.17	111.03	41.74	40.80	40.01
NET WEIGHT OF BARS # 12 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 10 (kg)	80.60	79.15	70.53	23.80	23.10	20.67
NET WEIGHT OF BARS # 8 (kg)	14.09	15.74	17.71	5.24	4.87	5.69
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	221.33	228.87	219.20	77.86	75.65	73.01
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	2.170	2.244	2.149	0.763	0.742	0.716

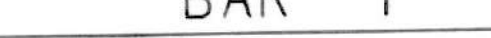
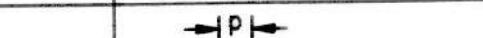
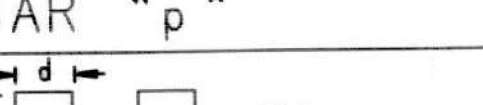
BAR BENDING SCHEDULE FOR SLAB-"X" (END UNIT)

BAR BENDING SCHEDULE FOR SLAB "X" (REIN. ONLY)																																																										
CONCRETE GRADE	DEPTH (mm)	BAR "a"						BAR "c"						BAR "d"						BAR "e"										BAR "f"										BAR "g"										BAR "j"								
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	p	LENGTH OF ONE BAR	TOTAL LENGTH	
M-20	375	16	21	2480	265	2915	61215	10	12	2448	259	2910	34920	10	5	2480	75	2635	13175	10	6	1817	1005	295	365	75	48	727	4380	26280	10	7	1817	1005	295	365	75	48	727	2002	6350	44450	8	8	10	75	121	295	162	210	4515	36120	10	13	657	100	860	11180
M-25	345	16	23	2480	235	2855	65665	10	12	2448	229	2850	34200	10	5	2480	75	2635	13175	10	6	1817	983	265	338	75	48	727	4300	25800	10	7	1817	983	265	338	75	48	727	2002	6270	43890	8	10	10	75	112	265	144	192	4035	40350	10	13	614	100	815	10595
M-30	320	16	23	2480	210	2805	64515	10	12	2448	204	2800	33600	10	5	2480	75	2635	13175	10	5	1817	964	240	315	75	48	727	4235	21175	10	6	1817	964	240	315	75	48	727	2002	6205	37230	8	12	10	75	112	240	144	192	3785	45420	10	11	579	100	780	8580

(CONTINUED)...

CONCRETE GRADE	DEPTH (mm)	BAR "h"									
		DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD
M-20	375	16	4	459	95	250	107	1550	6200		
M-25	345	16	4	429	95	250	107	1490	5960		
M-30	320	16	4	404	95	250	107	1440	5760		

BAR BENDING SCHEDULE FOR SLAB-"Y" (MIDDLE UNIT)

BAR BENDING SCHEDULE FOR SLAB "P" (MIDDLE ONE)																																													
CONCRETE GRADE	DEPTH (mm)	BAR "i"						BAR "k"						BAR "m"						BAR "n"						BAR "p"						BAR "q"													
																																													
DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH				
M-20	375	16	8	2480	265	2915	23320	10	6	2448	259	2910	17460	10	6	614	295	75	1295	7770	10	7	614	295	75	1880	13160	8	8	4	75	—	295	148	196	1680	13440	16	2	459	95	250	107	1550	3100
M-25	345	16	8	2480	235	2855	22840	10	6	2448	229	2850	17100	10	6	614	265	75	1235	7410	10	7	614	265	75	1820	12740	8	8	4	75	—	265	148	196	1560	12480	16	2	429	95	250	107	1490	2980
M-30	320	16	8	2480	210	2805	22440	10	6	2448	204	2800	16800	10	5	614	240	75	1185	5925	10	6	614	240	75	1770	10620	8	10	4	75	—	240	148	196	1460	14600	16	2	404	95	250	107	1440	2880

CONVERSION FACTOR	
1 kN/m ²	= 0.102 t/m ²
1 kN	= 0.102 t

R D S O

PRECAST RC BRIDGE SLAB (METRE GAUGE)
SPAN 1.83m
(SUITABLE FOR MMG-88, AND WITH
ADDITIONAL UNIT FOR MBG-87 LOADING
ON GAUGE CONVERSION)
QUANTITY AND BAR BENDING SCHEDULE

PROVISIONAL

RDSO/B-1600/4

- ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
- FOR GENERAL NOTES ETC. AND DETAILS OF SLABS REFER TO DRG. NO. RDSO/B-1600.
- FOR NOMENCLATURE OF SLABS & MARKING OF BARS REFER TO DRG. NO. RDSO/B-1600.
- BAR BENDING DIMENSIONS ARE OVER OUTER EDGES. BARS SHOULD BE PLACED IN ACCORDANCE WITH THE TABLE SHOWN ABOVE FOR EACH CONCRETE GRADE.
- PROFILES OF BAR "p" & "q" ARE TYPICAL. THE NUMBER OF LEGS MAY VARY DEPENDING UPON THE SPAN AND WIDTH OF THE UNIT.
- THIS DRAWING CONTAINS THREE DESIGNS WITH CONCRETE GRADE M-20, M-25 & M-30.

IS: 1786-1985
BRIDGE RULES
IRS CONCRETE BRIDGE CODE

NOT TO SCALE

SPECIFICATION

SCALE

ALT DESCRIPTION DATE

NOTE

DESIGN BY COMPUTER PROGRAMME REF. NO. DONE BY: K.C. JAIN RC/S-18	TECHNICAL BY: ABID SHUKLA & CHATTERJI CHECKED BY: JAIN & GOYAL	SCRUTINISED & CHECKED BY: ADE (B&S) CS11	SCRUTINISED & RECOMMENDED BY: JDS (B&S) CB1	APPROVED BY: DS (B&S)	FILE NO. NOTIFICATION NO.
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ARRANGEMENT OF SHEAR REINFORCEMENT

(REFER DRG. NO. RDSO/B-1600)

GRADE OF CONCRETE	MARK OF UNIT	PORTION "P"		PORTION "Q"		TOTAL NO. OF STIRRUPS	MARK OF BARS
		LENGTH (mm)	NO. OF STIRRUPS	LENGTH (mm)	NO. OF STIRRUPS		
M-20	"X"	910	5	1470	—	10	g
	"Y"	830	5	1630	—	10	p
M-25	"X"	1000	5	1290	—	10	g
	"Y"	970	5	1350	—	10	p
M-30	"X"	925	6	1440	—	12	g
	"Y"	770	5	1750	—	10	p

QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	SLAB-"X" (END UNIT)			SLAB-"Y" (MID. UNIT)		
	CONCRETE GRADE			CONCRETE GRADE		
	M-20	M-25	M-30	M-20	M-25	M-30
WEIGHT (kN)	75.70	69.90	65.80	23.00	21.00	19.50
CUBICAL QUANTITY (cu m)	3.028	2.798	2.634	0.918	0.838	0.781
NET WEIGHT OF BARS # 16 (kg)	167.38	163.95	161.50	51.67	50.56	49.77
NET WEIGHT OF BARS # 12 (kg)	—	—	—	—	—	—
NET WEIGHT OF BARS # 10 (kg)	117.67	107.69	98.61	33.28	30.14	27.63
NET WEIGHT OF BARS # 8 (kg)	20.42	18.78	21.13	7.02	6.48	6.08
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	336.02	319.46	309.36	101.17	95.90	91.83
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	3.294	3.132	3.033	0.992	0.940	0.900

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BAR BENDING SCHEDULE FOR SLAB-"X" (END UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "a"						BAR "c"						BAR "d"						BAR "e"										BAR "f"										BAR "g"										BAR "j"								
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	p	q	r	s	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	p	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	405	16	27	3190	295	3685	99495	10	14	3158	289	3680	51520	10	5	3190	75	3345	16725	10	9	1817	1028	325	393	75	48	727	4460	40140	10	10	1817	1028	325	393	75	48	727	2002	6430	64300	8	10	12	75	100	325	120	168	5235	52350	10	19	699	100	900	17100
M-25	370	16	27	3190	260	3615	97605	10	14	3158	254	3610	50540	10	5	3190	75	3345	16725	10	8	1817	1002	290	360	75	48	727	4365	34920	10	9	1817	1002	290	360	75	48	727	2002	6340	57060	8	10	12	75	100	290	120	168	4815	48150	10	17	650	100	850	14450
M-30	345	16	27	3190	235	3565	96255	10	14	3158	229	3560	49840	10	5	3190	75	3345	16725	10	7	1817	983	265	338	75	48	727	4300	30100	10	8	1817	983	265	338	75	48	727	2002	6270	50160	8	12	12	75	100	265	120	168	4515	54180	10	15	614	100	815	12225

(CONTINUED) ...

CONCRETE GRADE	DEPTH (mm)	BAR "h"							
		DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	405	16	4	489	95	250	107	1610	6440
M-25	370	16	4	454	95	250	107	1540	6160
M-30	345	16	4	429	95	250	107	1490	5960

BAR BENDING SCHEDULE FOR SLAB-"Y" (MIDDLE UNIT)

CONCRETE GRADE	DEPTH (mm)	BAR "i"						BAR "k"						BAR "m"						BAR "n"						BAR "p"						BAR "q"													
		DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	p	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	NO. OF LEGS	a	b	c	d	e	LENGTH OF ONE BAR	TOTAL LENGTH	DIA	NOS REQD	k	l	m	n	LENGTH OF ONE BAR	TOTAL LENGTH
M-20	405	16	8	3190	295	3685	29480	10	6	3158	289	3680	22080	10	9	614	325	75	1355	12195	10	10	614	325	75	1940	19400	8	10	4	75	—	325	148	196	1800	18000	16	2	489	95	250	107	1610	3220
M-25	370	16	8	3190	260	3615	28920	10	6	3158	254	3610	21660	10	8	614	290	75	1265	10120	10	9	614	290	75	1870	16830	8	10	4	75	—	290	148	196	1660	16600	16	2	454	95	250	107	1540	3080
M-30	345	16	8	3190	235	3565	28520	10	6	3158	229	3560	21360	10	7	614	265	75	1235	8645	10	8	614	265	75	1820	14560	8	10	4	75	—	265	148	196	1560	15600	16	2	429	95	250	107	1490	2980

CONVERSION FACTOR
1kN/m ² = 0.102t/m ²
1kN = -0.102t

- ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE SHOWN.
- FOR GENERAL NOTES ETC. AND DETAILS OF SLABS REFER TO DRG. NO. RDSO/B-1600.
- FOR NOMENCLATURE OF SLABS & MARKING OF BARS REFER TO DRG. NO. RDSO/B-1600.
- BAR BENDING DIMENSIONS ARE OVER OUTER EDGES. BARS SHOULD BE PLACED IN ACCORDANCE WITH THE TABLE SHOWN ABOVE FOR EACH CONCRETE GRADE.
- PROFILES OF BAR "p" & "q" ARE TYPICAL. THE NUMBER OF LEGS MAY VARY DEPENDING UPON THE SPAN AND WIDTH OF THE UNIT.
- THIS DRAWING CONTAINS THREE DESIGNS WITH CONCRETE GRADE M-20, M-25 & M-30.

IS: 1786-1985
BRIDGE RULES
IRS CONCRETE BRIDGE CODE

NOT TO SCALE

NOTE

SPECIFICATION SCALE ALT DESCRIPTION DATE

R D S O
PRECAST RC BRIDGE SLAB (METRE GAUGE) SPAN 2.44m (SUITABLE FOR MMG-88, AND WITH ADDITIONAL UNIT FOR MBG-87 LOADING ON GAUGE CONVERSION) QUANTITY AND BAR BENDING SCHEDULE
PROVISIONAL
RDSO/B-1600/5

DESIGN BY COMPUTER PROGRAMME		TECHNICAL BY: ABID, SHUKLA & ATHERJI		SCRUTINISED & CHECKED BY:	SCRUTINISED & RECOMMENDED BY:	APPROVED BY:	FILE NO.
REF. NO.	DONE BY: K.C. JAIN	CHECKED BY: JAIN & GOYAL		ADE (B&S) CS 11	JDS (B&S) CBI	DS (B&S)	NOTIFICATION NO.
RC/S-18	CHECKED BY: D.N. GOYAL						