SOUTH CENTRAL RAILWAY

Head Quarters Office
Works branch
Rail Nilayam
Secunderabad

No. W.351/Platforms/System Improvement Date: 17-03-2022

DRMs SC, BZA, GTL, GNT, HYB, NED.

Sub: Drawing for Platform wall with precast RCC, Stone Masonry and Brick Masonry – reg

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A Soft copy of the approved drawing bearing No. **GM/W/SC/PF WALL/70/2022** (Sheet 1 of 2) for Platform wall with precast RCC, Stone Masonry and Brick Masonry is sent herewith for information and necessary action.

Sheet 2 of 2 for platform wall with precast counterfort wall for all new works of goods platforms will be issued in due course.

Encl: PDF Drg through mail.

(M. Subash) 17/3/2022.
Dy. Chief Engineer/P&D
for Principal Chief Engineer

Copy to:

CAO/C/SC, CPM/RVNL/SC, CPM/RVNL/BZA , CPM/RVNL/MAS & GGM/RITES/SC
- Copy of drg bearing No. GM/W/SC/PF WALL/70/2022 (Sheet 1 of 2) is enclosed herewith for information and adoption henceforth for all the works.

Sr. DEN/Co-Ord/SC, BZA, GTL, GNT, HYB, NED for information and necessary action.

Encl: PDF Drg through mail.

Scanned with CamScanner

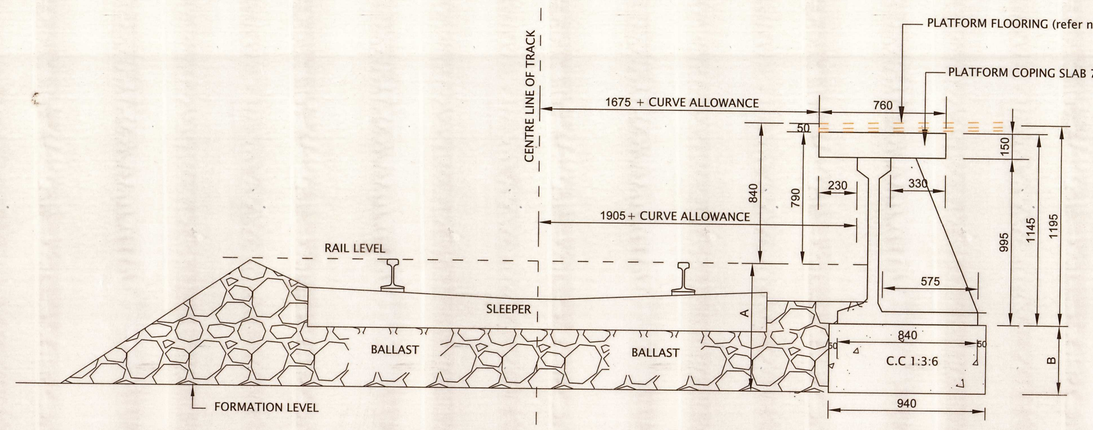
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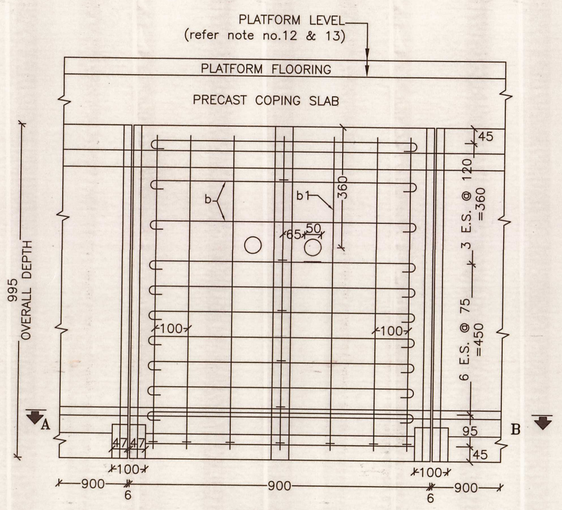
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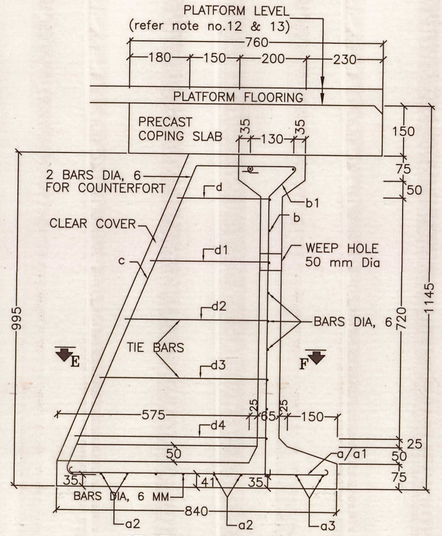
DETAILS OF 'A' & 'B'

TYPE OF SLEEPER	A	B
WIDER BASE	762	410
CONVENTIONAL	738	385

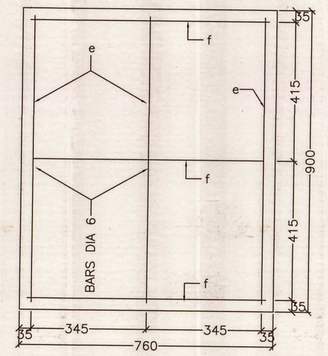
SECTION ACROSS THE PRE-CAST RCC COUNTERFORT PASSENGER PLATFORM WALL
SCALE 1:20



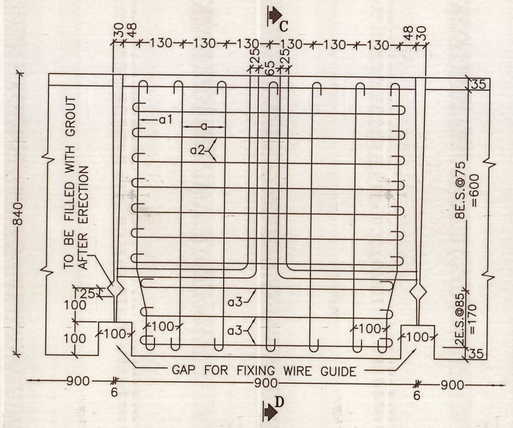
ELEVATION



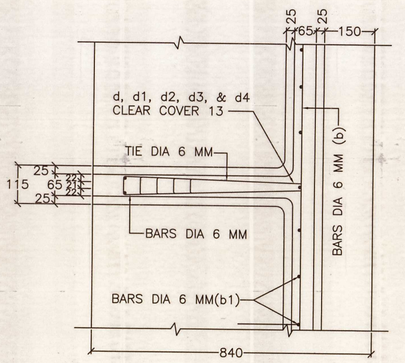
SECTION ON CD



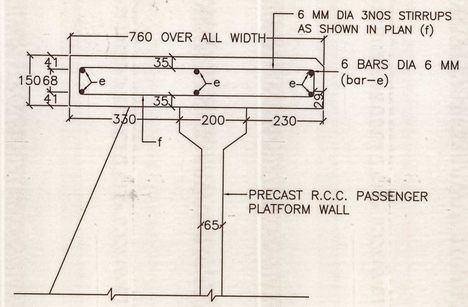
PART OF TOP PLAN



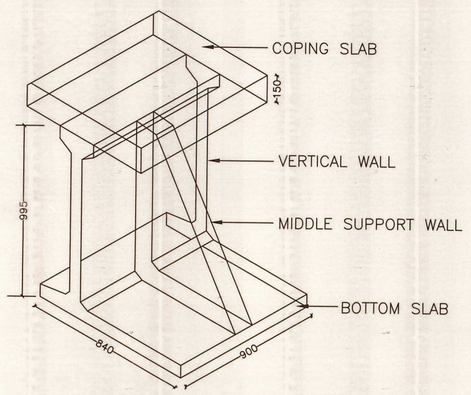
SECTIONAL PLAN ON A-B



PART SECTIONAL PLAN ON E-F

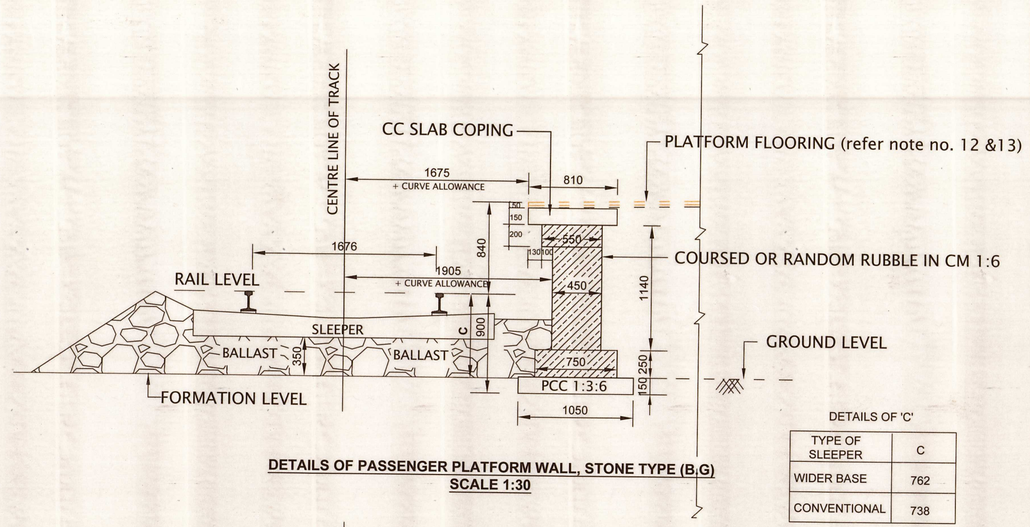


PLATFORM COPING SLAB
(TO BE PRECAST)



ISOMETRIC VIEW

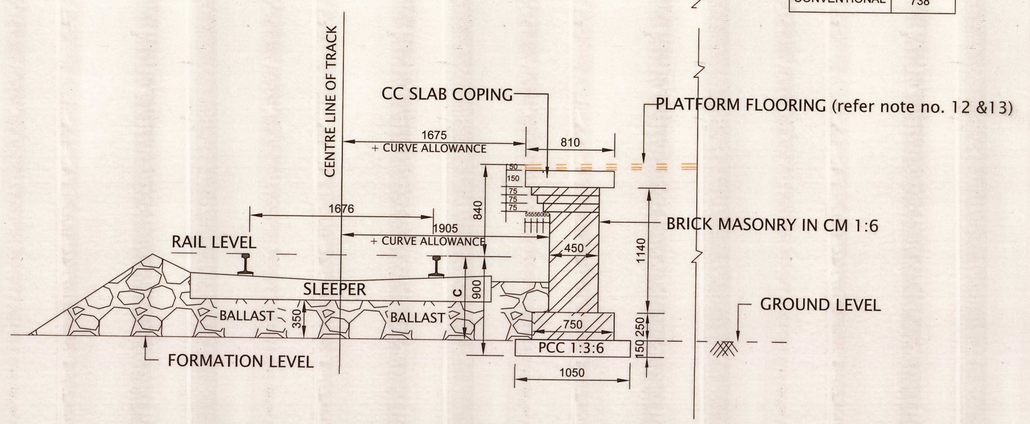
DETAILS OF PRECAST RCC COUNTERFORT PASSENGER PLATFORM WALL
SCALE 1:10



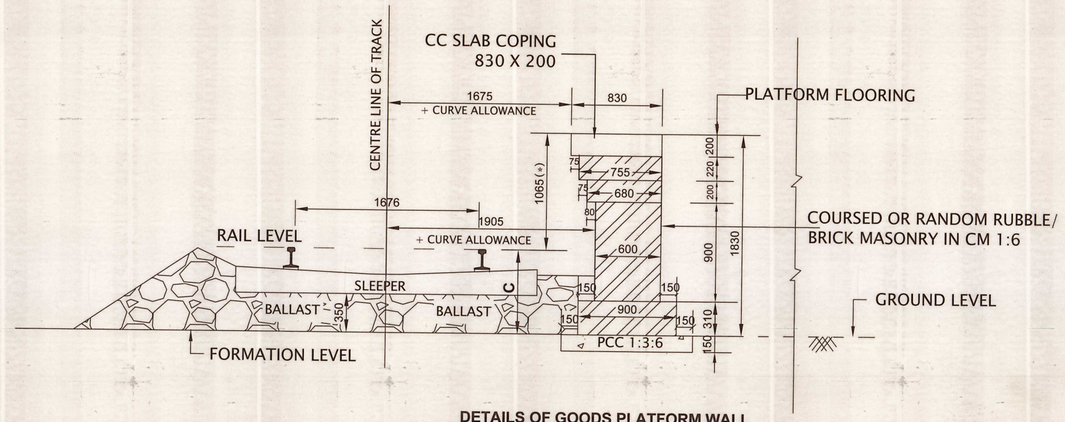
DETAILS OF 'C'

TYPE OF SLEEPER	C
WIDER BASE	762
CONVENTIONAL	738

DETAILS OF PASSENGER PLATFORM WALL, STONE TYPE (B,G)
SCALE 1:30



DETAILS OF PASSENGER PLATFORM WALL, BRICK TYPE (B,G)
SCALE 1:30



DETAILS OF GOODS PLATFORM WALL
STONE TYPE / BRICK TYPE (SCALE 1:30)

(*) PLATFORM HEIGHT ABOVE RAIL LEVEL FOR GOODS PLATFORMS (EXCEPT HORSE AND END LOADING PLATFORMS) IS 1065MM AND FOR GOODS PLATFORMS (HORSE AND END LOADING PLATFORMS) IS 1295MM

BAR BENDING SCHEDULE FOR EACH UNIT

SCHEDULE OF REINFORCEMENT OF SECTIONAL PLAN AT A-B

BAR MARK	DESCRIPTION	NO.	Dia. OF BAR	LENGTH IN M	TOTAL LENGTH IN M	Unit Weight (Kg/M)	Total Weight (Kg)
a	24, 790, 35	5	6	0.940	4.700	0.222	1.045
a1	24, 555, 130, 125, 10, 35	2	6	0.945	1.890	0.222	0.420
a2	24, 826, 35	8	6	0.975	7.800	0.222	1.730
a3	24, 756, 35	3	6	0.905	2.715	0.222	0.604

SCHEDULE OF REINFORCEMENT (ELEVATION) PRECAST PANEL OF LENGTH 900 MM

BAR MARK	DESCRIPTION	NO.	Dia. OF BAR	LENGTH IN M	TOTAL LENGTH IN M	Unit Weight (Kg/M)	Total Weight (Kg)
b	24, 800, 35	11	6	0.955	10.505	0.222	2.320
b1	148, 87, 72, 24, 838, 35, 32	7	6	1.260	8.820	0.222	1.960

SCHEDULE OF REINFORCEMENT OF PLATFORM COPING

BAR MARK	DESCRIPTION	NO.	Dia. OF BAR	LENGTH IN M	TOTAL LENGTH IN M	Unit Weight (Kg/M)	Total Weight (Kg)
e	24, 850, 35	6	6	1.000	6.000	0.222	1.332
f	782, 250	3	6	1.660	4.980	0.222	1.105

SCHEDULE OF REINFORCEMENT OF SECTION ON C-D

BAR MARK	DESCRIPTION	NO.	Dia. OF BAR	LENGTH IN M	TOTAL LENGTH IN M	Unit Weight (Kg/M)	Total Weight (Kg)
c	85, 95, 921, 382, 130	2	6	1.525	3.050	0.222	0.680
d		1	6	0.760	0.760	0.222	0.170
d1		1	6	0.970	0.970	0.222	0.216
d2		1	6	1.100	1.100	0.222	0.244
d3	52, VARIABLE 293/397/462/528/594, 18	1	6	1.230	1.230	0.222	0.274
d4		1	6	1.365	1.365	0.222	0.302

QUANTITY SCHEDULE FOR EACH UNIT
(900mm LONG)

DESCRIPTION	PLATFORM WALL	COPING SLAB
NET WEIGHT OF BARS 6MM DIA	9.97 kg	2.44 kg
WASTAGE 10%	0.997 kg	0.24 kg
Total Weight of Steel	10.97 kg	2.68 kg

NOTES:

1. All dimensions are in millimeters unless otherwise specified
2. All civil engineering works related to building works, road works & horticulture works shall confirm to CPWD specifications vol. 1 & 2 circulated vide CE/Works lr. no. scr-hqoengg(sor)/18/2019-DYCE/works/scr dtd. 26.02.2020
3. For plain and reinforced concrete, IS 456-2000 shall be followed.
4. Tor steel shall confirm to IS 1786-2008. Mild steel shall confirm to IS. 432:1982.
5. The top surface of the coping stone should be indented by XPM or some other method.
6. Platform walls shall be constructed over compacted earth as per the latest guidelines on compaction of earth work.

7. PRE-CAST RCC COUNTER FORT PF WALL

7.1 Grade of Concrete shall be M 30

7.2 All sharp corners to be rounded or chamfered suitably wherever necessary.

7.3 Spacing of reinforcement are with reference to the centre line of the bars

7.4 Platform walls with counterfort RCC type shall be adopted for all new passenger platform works.

7.5 The details of counter fort platform wall are shown based on the RDSO Drg No. MA-10870

7.6 Bar bending schedule & quantities are with reference to RDSO Drg. No. MA-10870/1.

7.7 This drawing supersedes earlier approved RDSO drg. No. MA-10870 & MA-10870/1.

7.8 This drawing supersedes earlier approved HQ drawing No. GM(W)SC/TYPE/No. 3228.

8. STONE TYPE & BRICK TYPE PASS. PF WALL

8.1 Platform wall with stone type & brick type masonry shall be adopted for extension/raising of existing similar type passenger platforms .

8.2 The details are shown based on standard drawing bearing No. GM(W)SC/TYPE 3311

8.3 This drawing supersedes earlier approved HQ drg. No. GM(W)SC/TYPE 3311.

9. GOODS PF WALL

9.1 This drawing supersedes earlier approved HQ drawing No. GM(W)SC/BR/445/71.

9.2 Goods Platform wall with brick/stone masonry shall be adopted for extension/raising of existing similar type goods platforms.

9.3 Platform walls with precast counterfort RCC type shall be adopted for all new goods platform works (Sheet 2 of 2).

10. When the platform flooring is laid with quarry dust/moorum surface, weep holes shall be provided in platform walls with 75mm dia PVC pipes @ 7.50m apart. Weep holes are not to be provided for the platforms where pucca paved surfaces are proposed.

11. *Type of flooring on platform is to be provided based on category of the station vide RDSO guidelines lr. No. WKS/WS/05/FS dtd. 22-09-2009 and reiterated vide lr. No. WKS/WS/05/FS dtd. 16-01-2013.*

12. Platform flooring shall be laid over coping slab (no trolley zone) for NSG1 to NSG4 (old A1, A & B category), SG1, SG2, SG3 (old C category) category of stations.

13. Platform flooring shall not be laid over coping slab for NSG5 & NSG6 (old D&E category), HG1, HG2 & HG3 (old F category) category of stations.

CAD DRAWN BY	P. AMARENDER SSE/DRAWINGS	
DRAWING CHECKED BY	J. SRINIVAS SSE/DRAWINGS	

CE/P&D	G. BRAHMANANDA REDDY
DY. CE/P&D	M. SUBASH

SOUTH CENTRAL RAILWAY
HEAD QUARTERS OFFICE, SECUNDERABAD

PLATFORM WALL WITH PRECAST RCC, STONE MASONRY & BRICK MASONRY

SCALE : AS SHOWN	H.Q. OFFICE DRG.NO. GM/W/SC/PF WALL/ 70 /2022 (Sheet 1 of 2)