

# TATICHERLA

## INTERFACE CIRCUITS

### (CIRCUIT BOOK)

						 <p>TVM Signalling &amp; Transportation Systems Pvt. Ltd.  #610, "NARAYANA", 1st Floor, 15th Cross,  100 Feet Road, J.P.Nagar, 6th Phase,  Bengaluru – 560 078  Tel: +91 80 2654 0781,82,83  E-mail : info@tsts.in</p>	IPU.2107B/3	REVISION	CHK.	TITLE: COVER SHEET			SIGNAL & TELECOMMUNICATIONS
					R. Bas		JE/Drg						
							SE/SSE/Drg						
							ASTE/D						
							SSTE/P & P						
							f CSTE						
00	16.07.15	PR	RS	RSS	ASMADE		CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	APP.	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	TATICHERLA	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				00000	00070	00001	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL	

SL.No.	DESCRIPTION	DRAWING No.	REV. No.	DCR No.
01	COVER SHEET	512_TAC_IC_00000	00	
02	INDEX	512_TAC_IC_00001	00	
03	SPARE	512_TAC_IC_00002-00010		
04	SYMBOLS	512_TAC_IC_00011	00	
05	SPARE	512_TAC_IC_00012-00100		
06	MICROLOK II NON-VITAL INPUT CIRCUITS M1A1/B1 SLOT - 13	512_TAC_IC_00101	00	
07	MICROLOK II NON-VITAL INPUT CIRCUITS M1A1/B1 SLOT - 13	512_TAC_IC_00102	00	
08	MICROLOK II NON-VITAL OUTPUT CIRCUITS M1A1/B1 SLOT - 13	512_TAC_IC_00103	00	
09	MICROLOK II NON-VITAL OUTPUT CIRCUITS M1A1/B1 SLOT - 13	512_TAC_IC_00104	00	
10	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 3	512_TAC_IC_00201	00	
11	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 3	512_TAC_IC_00202	00	
12	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 4	512_TAC_IC_00203	00	
13	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 4	512_TAC_IC_00204	00	
14	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 5	512_TAC_IC_00205	00	
15	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 5	512_TAC_IC_00206	00	
16	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 6	512_TAC_IC_00207	00	
17	MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 6	512_TAC_IC_00208	00	
18	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 7	512_TAC_IC_00209	00	
19	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 7	512_TAC_IC_00210	00	
20	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 8	512_TAC_IC_00211	00	
21	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 8	512_TAC_IC_00212	00	
22	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 9	512_TAC_IC_00213	00	
23	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 9	512_TAC_IC_00214	00	
24	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 10	512_TAC_IC_00215	00	
25	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 10	512_TAC_IC_00216	00	
26	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 11	512_TAC_IC_00217	00	
27	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 11	512_TAC_IC_00218	00	
28	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 12	512_TAC_IC_00219	00	
29	MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 12	512_TAC_IC_00220	00	
30	SPARE	512_TAC_IC_00221-00300		
31	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S1D	512_TAC_IC_00301	00	
32	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S1	512_TAC_IC_00302	00	
33	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-SH2	512_TAC_IC_00303	00	
34	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S15	512_TAC_IC_00304	00	
35	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S16	512_TAC_IC_00305	00	
36	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S17	512_TAC_IC_00306	00	
37	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S18	512_TAC_IC_00307	00	
38	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S20D	512_TAC_IC_00308	00	
39	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S20	512_TAC_IC_00309	00	
40	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-SH19	512_TAC_IC_00310	00	
41	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S3	512_TAC_IC_00311	00	
42	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S4	512_TAC_IC_00312	00	
43	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S5	512_TAC_IC_00313	00	
44	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S6	512_TAC_IC_00314	00	
45	SPARE	512_TAC_IC_00315-00400		

SL.No.	DESCRIPTION	DRAWING No.	REV. No.	DCR No.
46	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-7	512_TAC_IC_00401	00	
47	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-7	512_TAC_IC_00402	00	
48	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-8	512_TAC_IC_00403	00	
49	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-8	512_TAC_IC_00404	00	
50	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-13	512_TAC_IC_00405	00	
51	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-13	512_TAC_IC_00406	00	
52	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-14	512_TAC_IC_00407	00	
53	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-14	512_TAC_IC_00408	00	
54	PCR CIRCUIT	512_TAC_IC_00409	00	
55	SPARE	512_TAC_IC_00410-500		
56	TRACK INPUT RELAY CIRCUITS	512_TAC_IC_00501	00	
57	TRACK INPUT RELAY CIRCUITS	512_TAC_IC_00502	00	
58	SPARE	512_TAC_IC_00503-00524		
59	CRANK HANDLE CIRCUITS-CH1	512_TAC_IC_00525	00	
60	CRANK HANDLE CIRCUITS-CH2	512_TAC_IC_00526	00	
61	SPARE	512_TAC_IC_00527-00529		
62	COUNTER CIRCUIT	512_TAC_IC_00530	00	
63	COUNTER CIRCUIT	512_TAC_IC_00531-00549		
64	LEVEL CROSSING CIRCUITS-12	512_TAC_IC_00550	00	
65	LEVEL CROSSING CIRCUITS-12	512_TAC_IC_00551	00	
66	RELAY ROOM EKT CIRCUIT	512_TAC_IC_00552	00	
67	ALARM CANCELLATION CIRCUIT	512_TAC_IC_00553	00	
68	SMR, DC.DC. FAIL ,VCOR & LVR CIRCUIT	512_TAC_IC_00554	00	
69	SPARE	512_TAC_IC_00555-576		
70	TAC-ATP BPAC1 CIRCUITS	512_TAC_IC_00577	00	
71	TAC-ATP BPAC2 CIRCUITS	512_TAC_IC_00578	00	
72	TAC-ATP BPAC CIRCUITS	512_TAC_IC_00579	00	
73	TAC-ATP BPAC RESET CIRCUITS	512_TAC_IC_00580	00	
74	TAC-ATP SECTION SINGLE LINE BLOCK INPUT & OUTPUT CIRCUITS	512_TAC_IC_00581	00	
75	TAC-GDE BPAC1 CIRCUITS	512_TAC_IC_00582	00	
76	TAC-GDE BPAC2 CIRCUITS	512_TAC_IC_00583	00	
77	TAC-GDE BPAC CIRCUITS	512_TAC_IC_00584	00	
78	TAC-GDE BPAC RESET CIRCUITS	512_TAC_IC_00585	00	
79	TAC-GDE SECTION SINGLE LINE BLOCK INPUT & OUTPUT CIRCUITS	512_TAC_IC_00586	00	

					TVM Signalling & Transportation Systems Pvt. Ltd.	
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00	16.07.15	PR	RS	RSS	ASMADE	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	

CHK.	IPU.2107B/3	REVISION	TITLE: INDEX			SIGNAL & TELECOMMUNICATIONS  ताटिचेर्ला  TATICHERLA
		JE/Drg	REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO द म रेलवे आरेख संख्या B			
		SE/SSE/Drg	IPU.2107B/3 S.C.RLY.DRG.NO द म रेलवे आरेख संख्या B			
		ASTE/D	शीट SHEET कुल शीट SHEETS			
		SSTE/P & P	शीट SHEET कुल शीट SHEETS			
		f CSTE	APP.	CONT'D ON:	00011	
				00001	00070	

SOUTH CENTRAL RAILWAY  
DIVISION: GUNTAKAL

## SYMBOLS

SYMBOLS	DESCRIPTION
	RELAY FRONT CONTACTS
	RELAY BACK CONTACTS
	A.C. IMMUNISED RELAY COIL
	RELAY COIL
	LATCH RELAY COIL
	FUSE
	COMB LINK
	RESISTOR
	CAPACITOR
	DIODE
	TRANZORB-P6KE62
	LED
	KEY
	GROUND
	PUSH BUTTON
	COUNTER

SYMBOLS	DESCRIPTION
	BUZZER
	TWISTED PAIR WIRE & TWISTED SINGLE CABLE
	SINGLE DECK PHENIX NON -DISCONNECT TERMINAL TYPE OTTA-25.
	DOUBLE DECK PHENIX TERMINAL TYPE UKK5-DIO/UL-UR HAVING INBUILT DIODES 1N4007 WITH COMMON CATHODE.
	DOUBLE DECK PHENIX TERMINAL TYPE UKK5-DIO/UL-UR HAVING INBUILT DIODES 1N4007 WITH COMMON ANODE.
	SINGLE DECK PHENIX NON-DISCONNECT TERMINAL TYPE UK5-TWIN.
	SINGLE DECK PHENIX NON -DISCONNECT TERMINAL TYPE UK5N.
	TERMINAL END
	FTOT RACK TERMINAL
	JUMPER
	MULTICORE CABLE
	<> MICROLOK II BOARD EDGE CONNECTOR PIN
	RELAY COIL WITH DIODE

SYMBOLS	DESCRIPTION
	MICROLOK II BOARD
	DC-DC CONVERTOR
	SURGE SUPPRESSOR
	TWO POLE MINIATURE CIRCUIT BREAKER
	BUS BAR

00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION

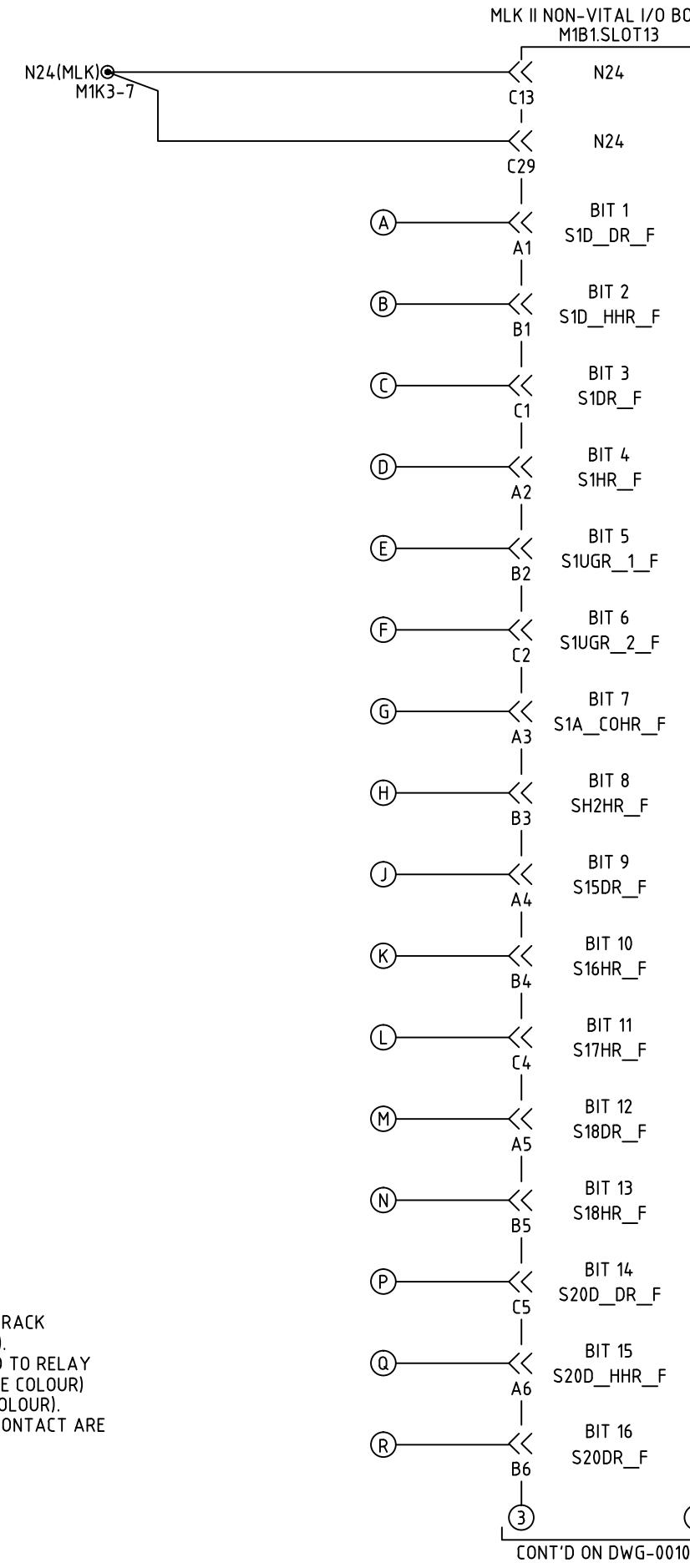
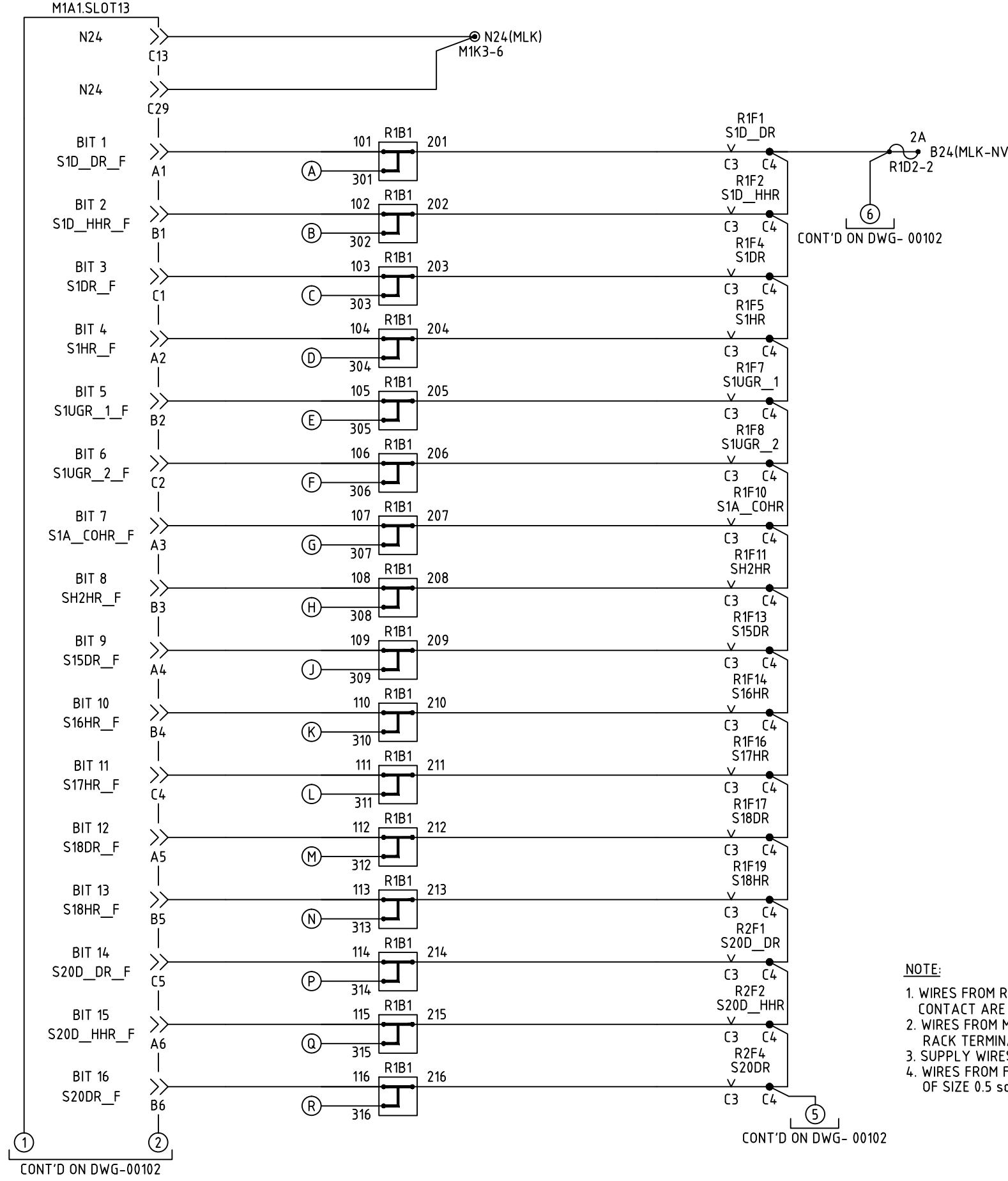
 TVM Signalling & Transportation Systems Pvt. Ltd.  
#610, "NARAYANA", 1st Floor, 15th Cross,  
100 Feet Road, J.P.Nagar, 6th Phase,  
Bengaluru – 560 078  
Tel: +91 80 2654 0781,82,83  
E-mail : info@tsts.in

CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

IPU.2107B/3	REVISION
	JE/Drg
	SE/SSE/Drg
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CHK.	TITLE: SYMBOLS		
	REF.SIG.PLAN.No.	IPU.2107B/3	S.C.RLY.DRG.NO

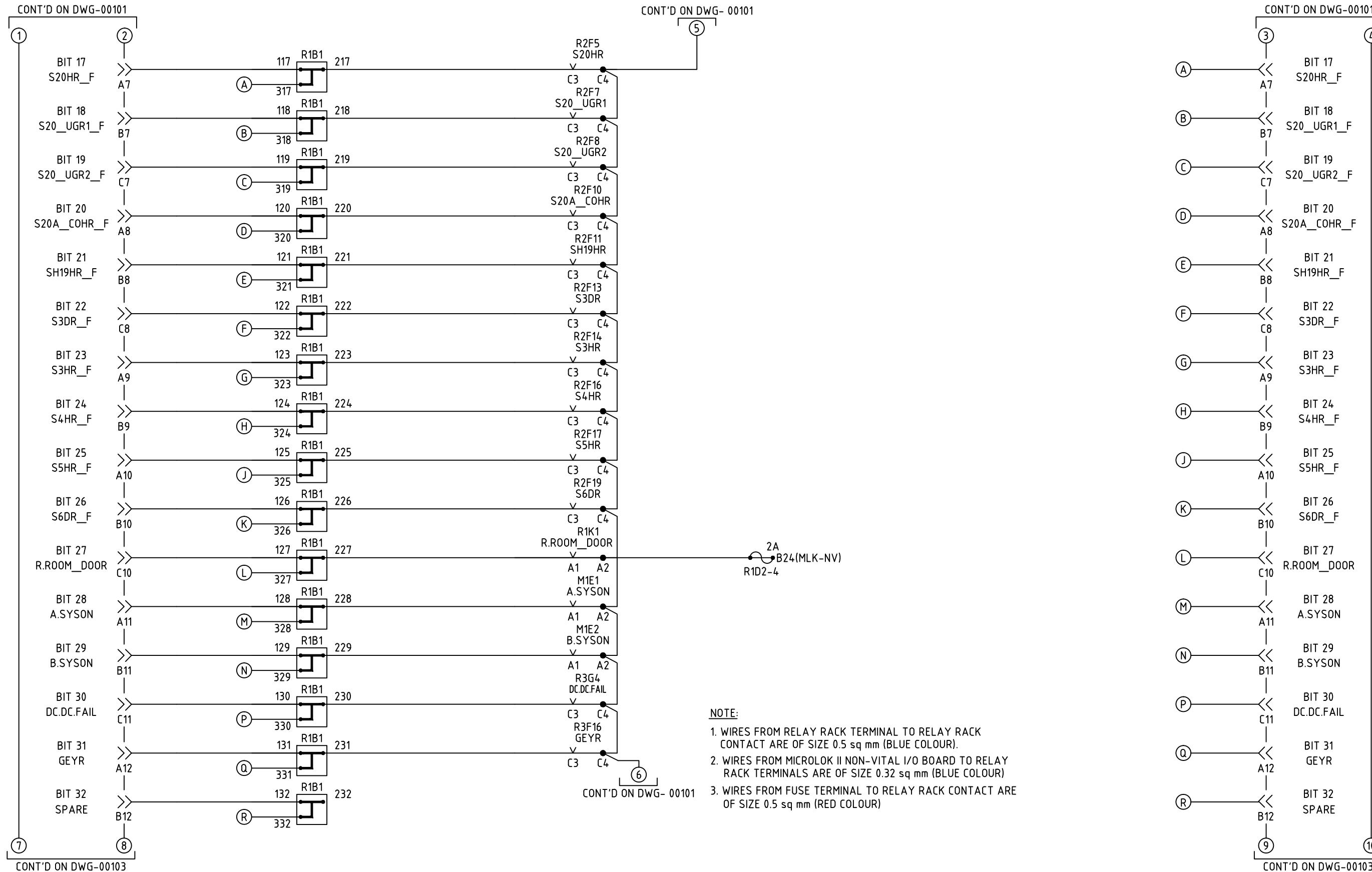
सिग्नल व दूर संचार  
SIGNAL & TELECOMMUNICATIONS  
ताटिचेर्ला  
TATICHERLA  
SOUTH CENTRAL RAILWAY  
DIVISION: GUNTAKAL  
(MICROLOK-II WARM STANDBY)



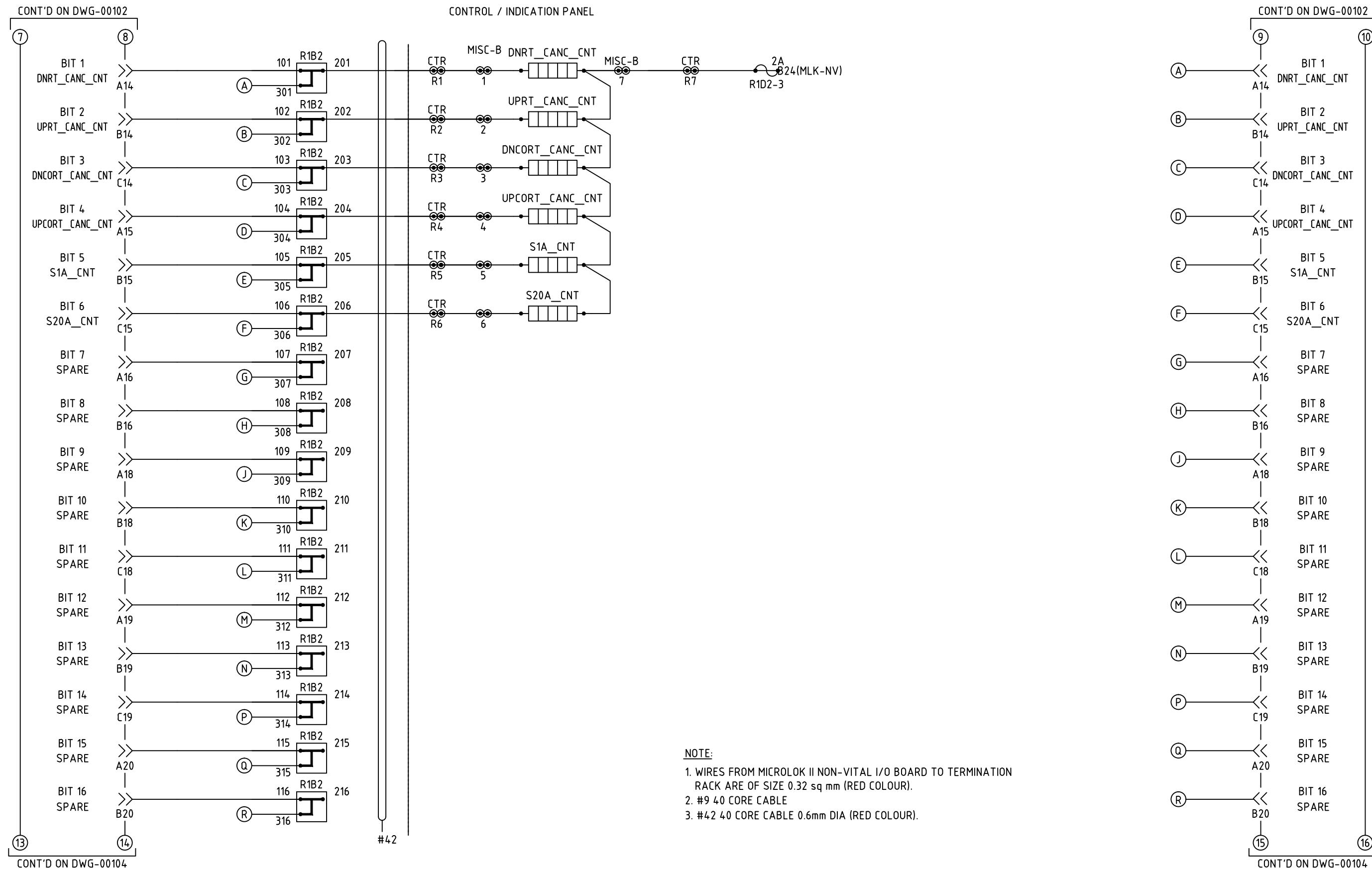
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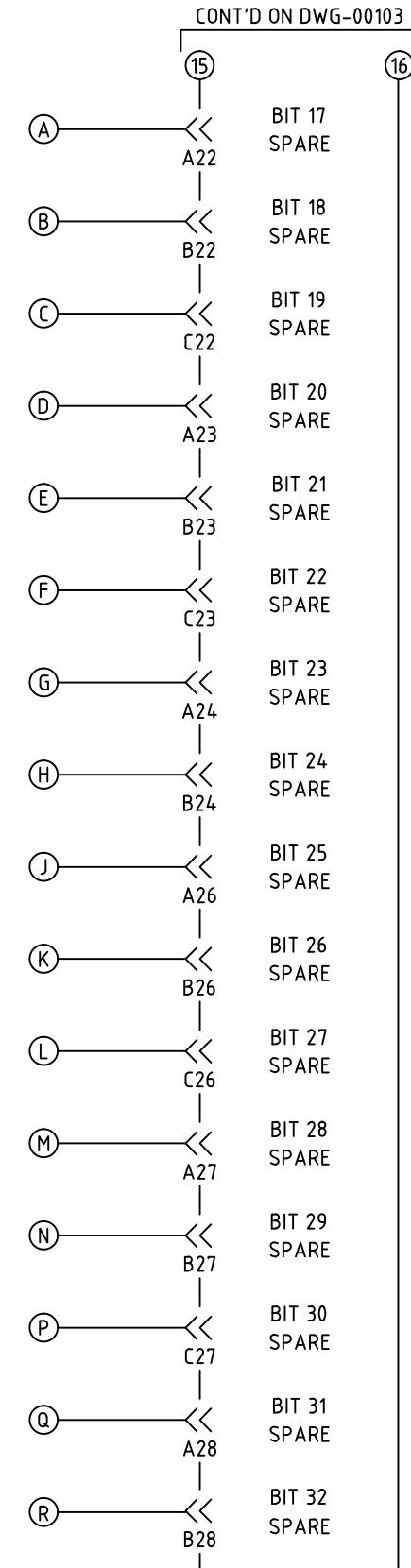
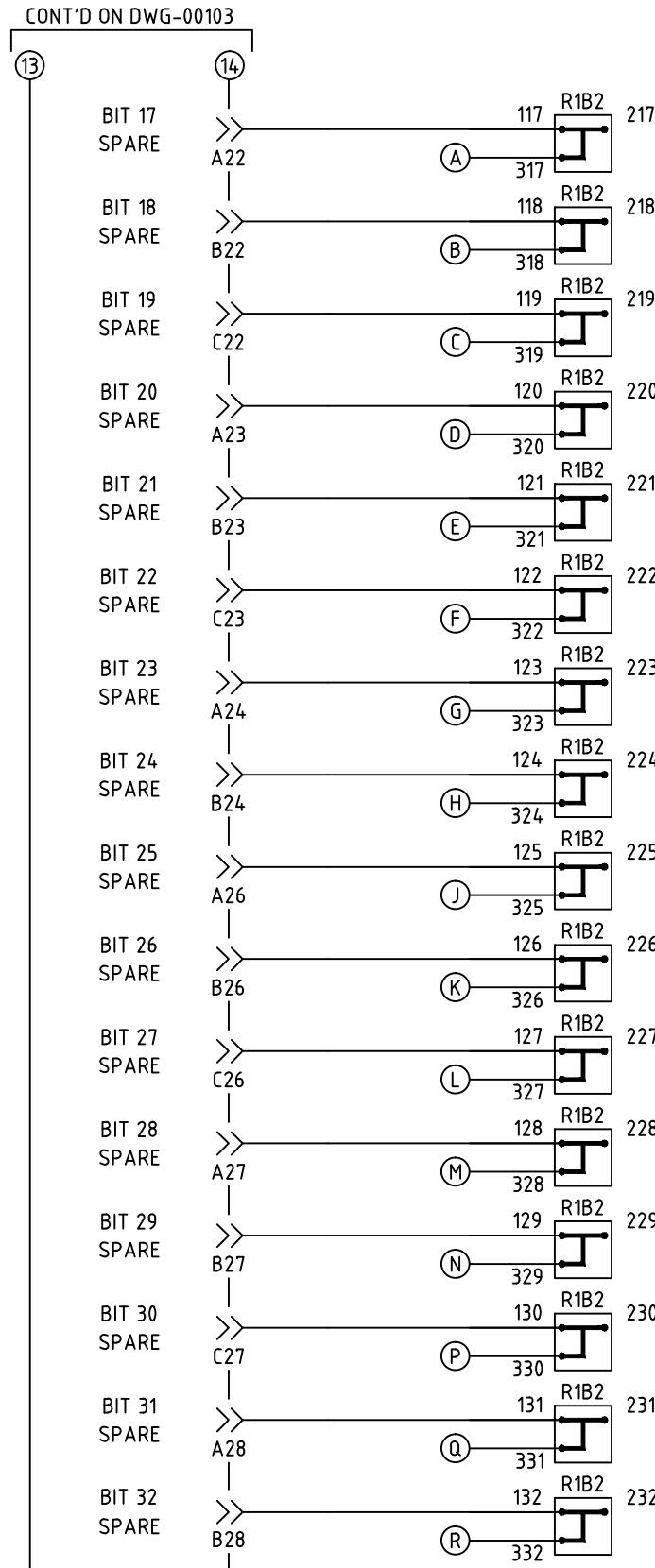
1. WIRES FROM RELAY RACK TERMINAL TO RELAY RACK CONTACT ARE OF SIZE 0.5 sq mm (BLUE COLOUR).
  2. WIRES FROM MICROLOK II NON-VITAL I/O BOARD TO RELAY RACK TERMINALS ARE OF SIZE 0.32 sq mm (BLUE COLOUR)
  3. SUPPLY WIRES ARE OF SIZE 0.32 Sq.mm(BLUE COLOUR).
  4. WIRES FROM FUSE TERMINAL TO RELAY RACK CONTACT ARE OF SIZE 0.5 sq mm (RED COLOUR)

						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781, 82, 83 E-mail : info@tsts.in		IPU.2107B/3	REVISION	CHK.	TITLE: MICROLOK II NON-VITAL INPUT CIRCUITS M1A1/B1 SLOT - 13			SIGNAL & TELECOMMUNICATIONS  ताटिचेर्ला TATICHERLA	
							JE/Drg								
							SE/SSE/Drg								
							ASTE/D								
							SSTE/P & P								
							f CSTE								
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेख सं	S.C.RLY.DRG.NO.	बि B		APP.		
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3			शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00102	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL



					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: MICROLOK II NON-VITAL INPUT CIRCUITS M1A1/B1 SLOT - 13			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		JE/Drg			REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	वि B	तातिचेर्ला TATICHERLA
					ASMADE		SE/SSE/Drg			IPU.2107B/3	S.C.RLY.DRG.NO		
00	16.07.15	PR	RS	RSS			ASTE/D			शीट SHEET	कुल शीट SHEETS	CONT'D ON:	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	SSTE/P & P			00102	00070	00103	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
							f CSTE	APP.					(MICROLOK-II WARM STANDBY)





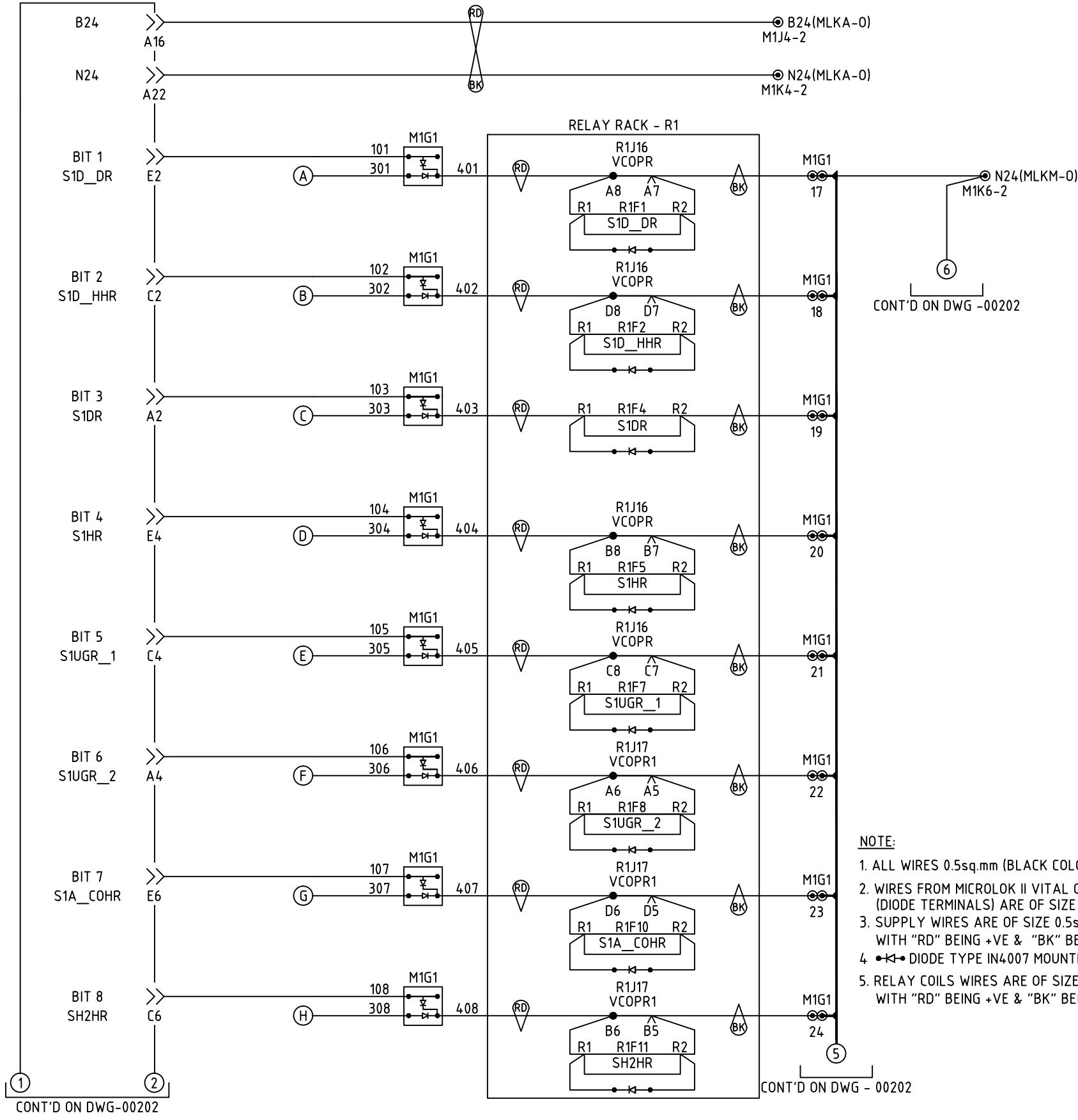
NOTE:

1. ALL WIRES ARE OF SIZE 16/0.2 sq mm (BLACK COLOUR).

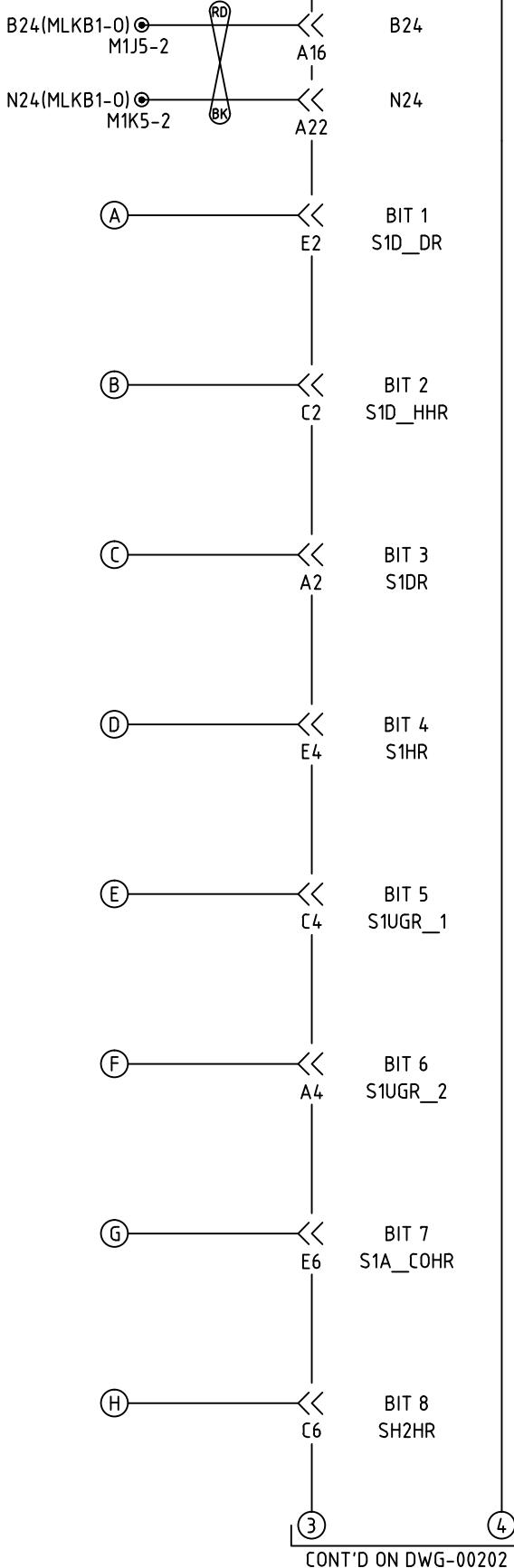
					TVM Signalling & Transportation Systems Pvt. Ltd.
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		JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
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MLK II VITAL OUTPUT BOARD  
M1A1.SLOT3



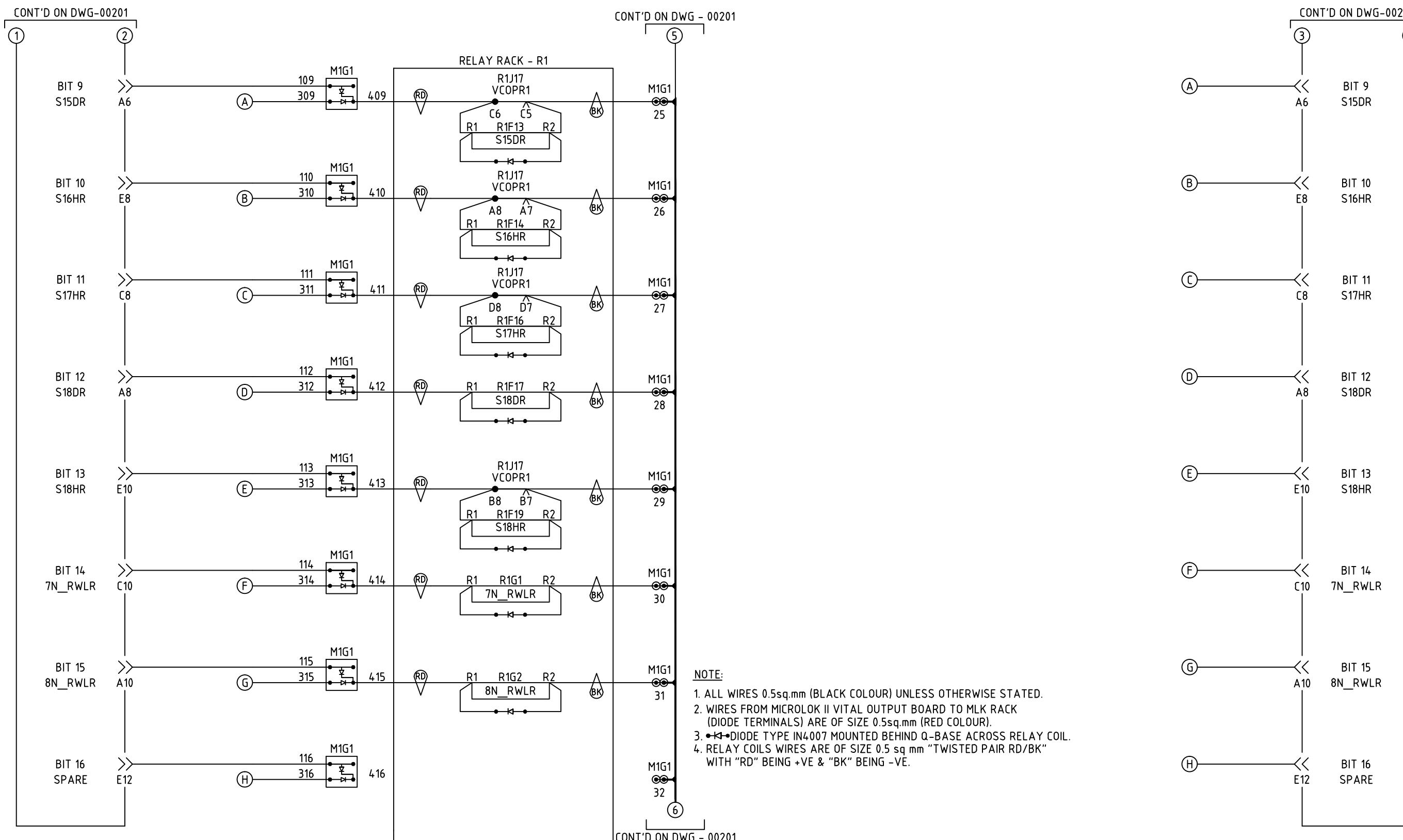
MLK II VITAL OUTPUT BOARD  
M1B1.SLOT3



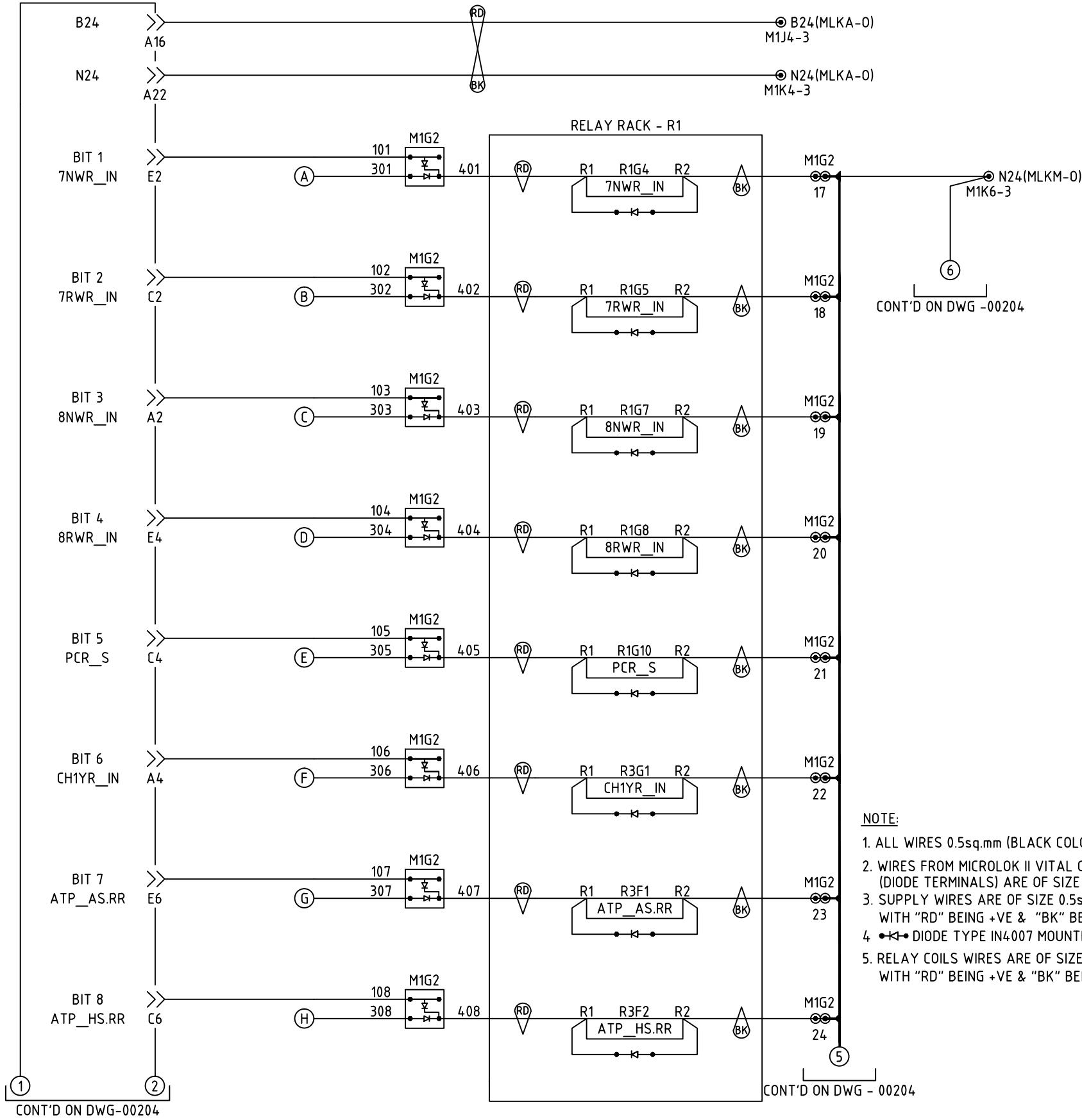
NOTE:

- ALL WIRES 0.5sq.mm (BLACK COLOUR) UNLESS OTHERWISE STATED
- WIRES FROM MICROLOK II VITAL OUTPUT BOARD TO MLK RACK (DIODE TERMINALS) ARE OF SIZE 0.5sq.mm (RED COLOUR).
- SUPPLY WIRES ARE OF SIZE 0.5sq.mm, "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE.
- K1• DIODE TYPE IN4007 MOUNTED BEHIND Q-BASE ACROSS RELAY COIL.
- RELAY COILS WIRES ARE OF SIZE 0.5 sq mm "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

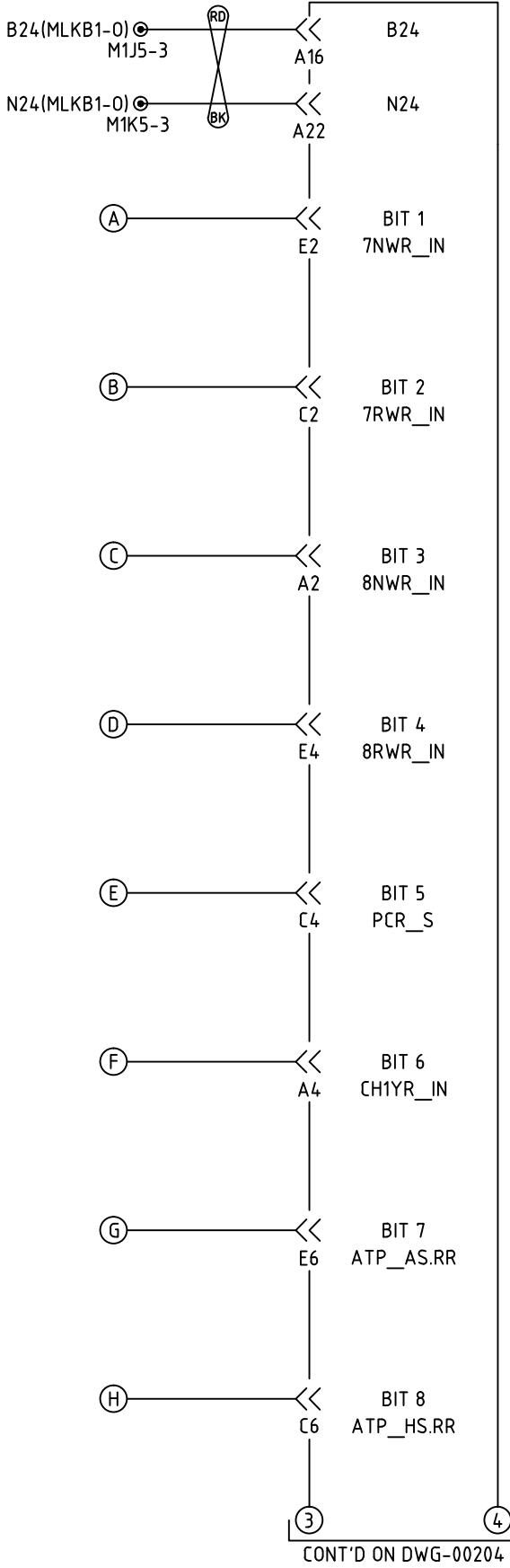
					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	CHK.	IPU.2107B/3	REVISION	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS		
							JE/Drg				
							SE/SSE/Drg				
							ASTE/D				
							SSTE/P & P				
							f CSTE	APP.	REF.SIG.PLAN.No. IPU.2107B/3	द म रेलवे आरक्ष सं. S.C.RLY.DRG.NO बि B	
00	16.07.15	PR	RS	RSS	ASMADE				शीट SHEET 00201	कुल शीट SHEETS 00070	CONT'D ON: 00202
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION						
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012						



MLK II VITAL OUTPUT BOARD  
M1A1.SLOT4



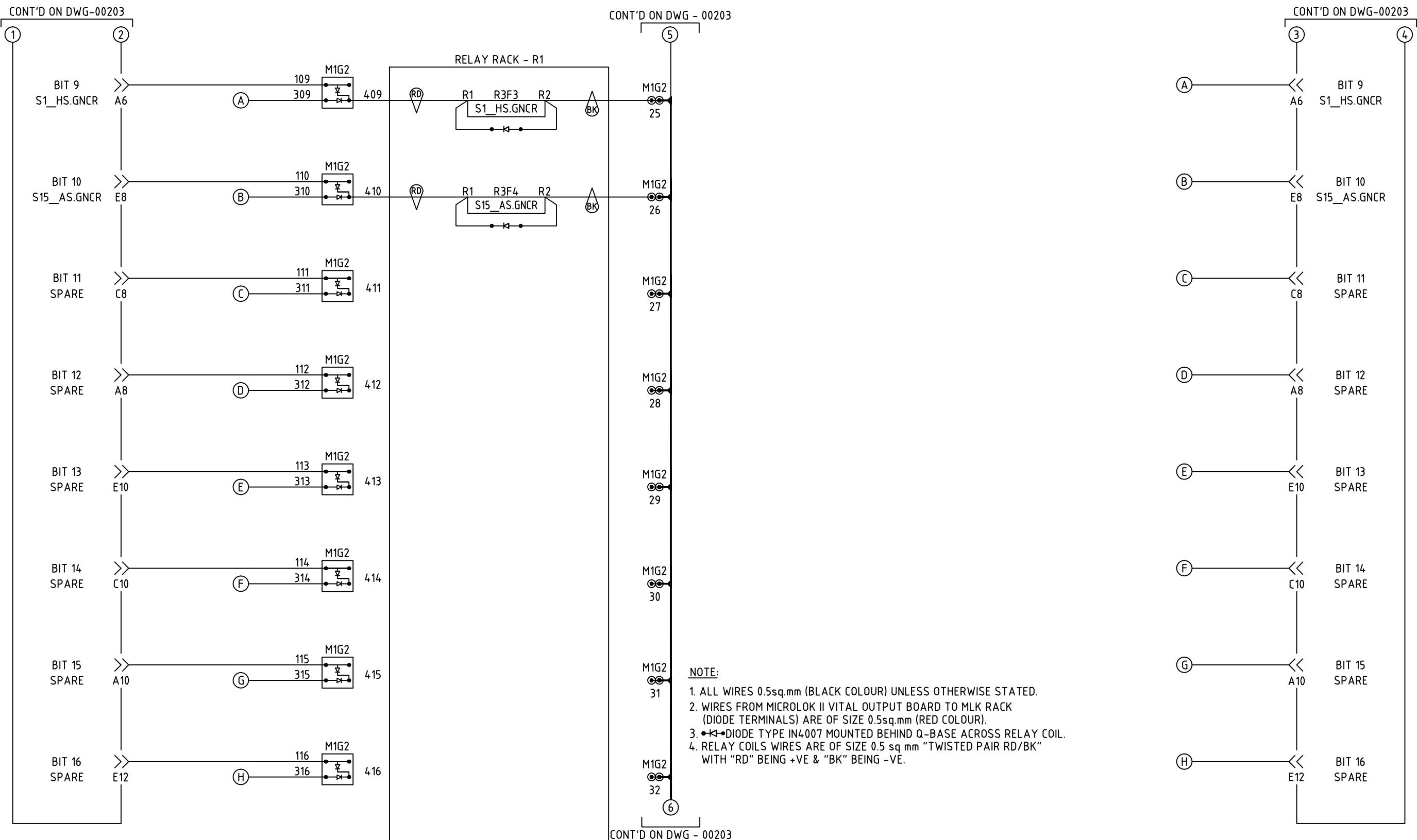
MLK II VITAL OUTPUT BOARD  
M1B1.SLOT4



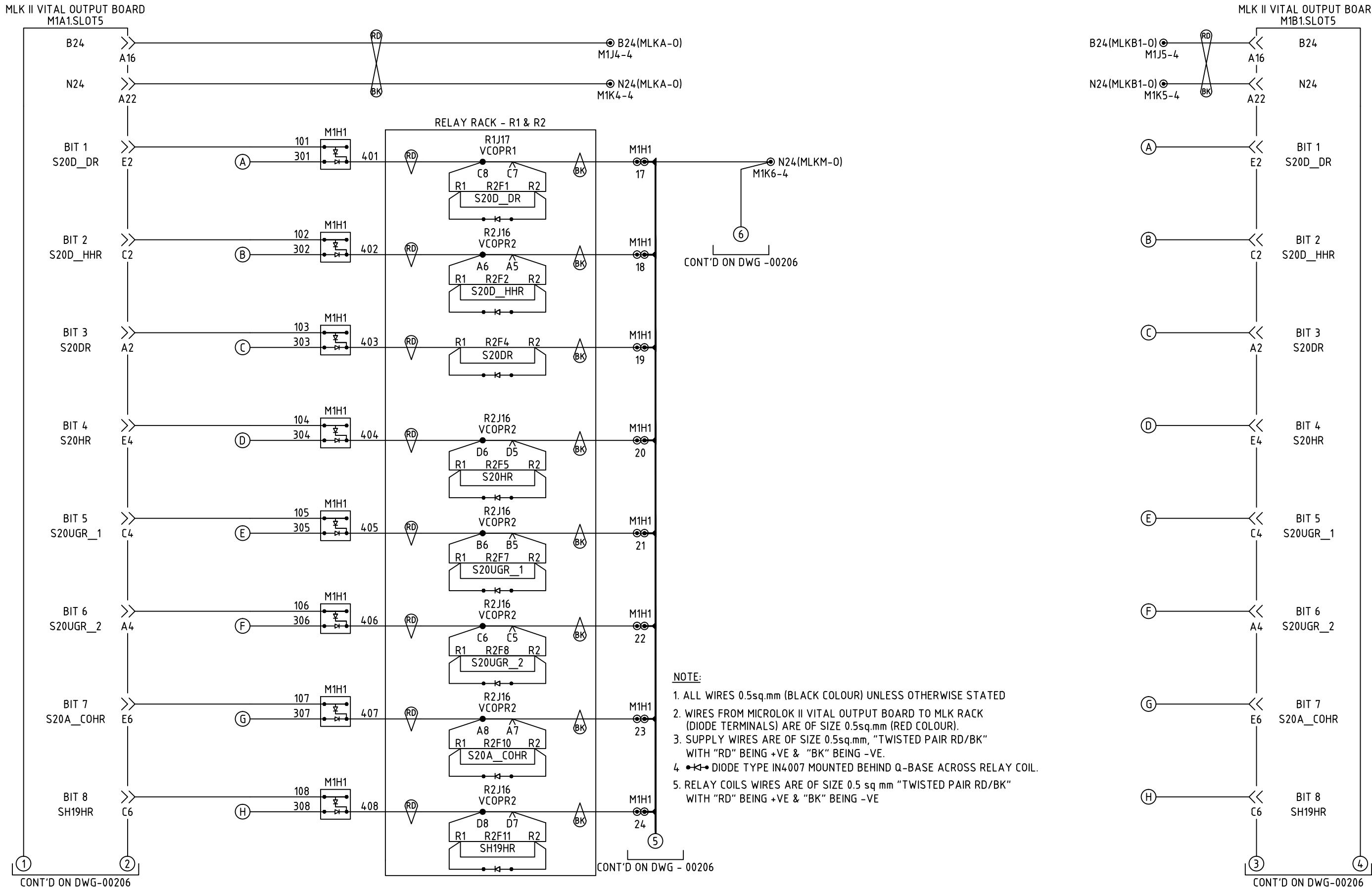
NOTE:

- ALL WIRES 0.5sq.mm (BLACK COLOUR) UNLESS OTHERWISE STATED
- WIRES FROM MICROLOK II VITAL OUTPUT BOARD TO MLK RACK (DIODE TERMINALS) ARE OF SIZE 0.5sq.mm (RED COLOUR).
- SUPPLY WIRES ARE OF SIZE 0.5sq.mm, "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE.
- K1 • DIODE TYPE IN4007 MOUNTED BEHIND Q-BASE ACROSS RELAY COIL.
- RELAY COILS WIRES ARE OF SIZE 0.5 sq mm "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

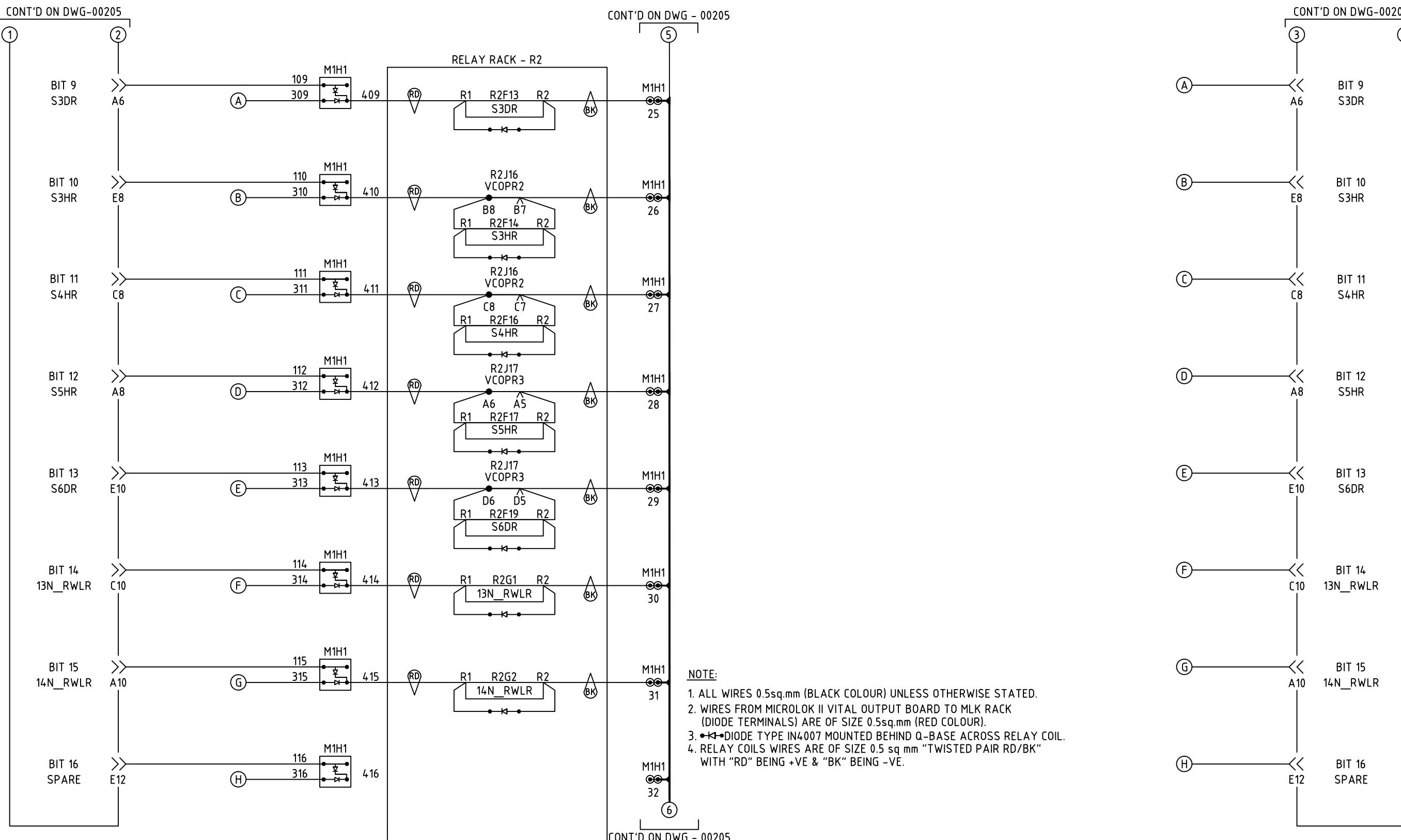
					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE APP. 00203	TITLE: <b>MICROLOK II VITAL OUTPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 4</b> REF.SIG.PLAN.No. <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> वि B IPU.2107B/3 S.C.RLY.DRG.NO <input type="text"/> शीट SHEET <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00204 00070	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS तातिचेर्ला TATICHERLA SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
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00	16.07.15	PR	RS	RSS	ASMADE	JE/Drg	REF.SIG.PLAN.No.		द म रेलवे आरक्ष सं	बि B	
						SE/SSE/Drg	IPU.2107B/3		S.C.RLY.DRG.NO		
						ASTE/D					
						SSTE/P & P	शीट SHEET		कुल शीट SHEETS	CONT'D ON:	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	f CSTE	00204		00070	00205	

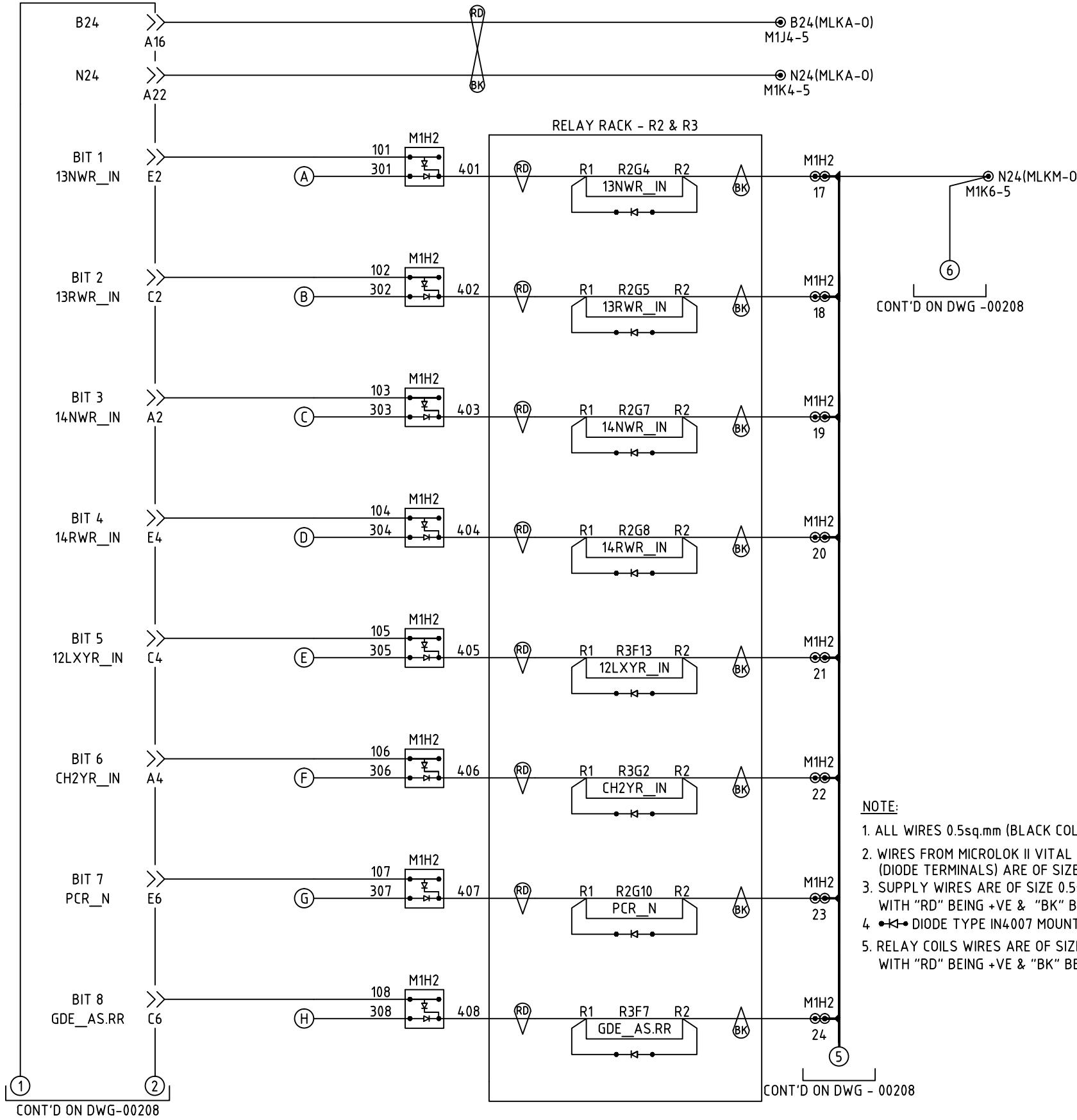


						 <p><b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b>  #610, "NARAYANA", 1st Floor, 15th Cross,  100 Feet Road, J.P.Nagar, 6th Phase,  Bengaluru - 560 078  Tel: +91 80 2654 0781,82,83  E-mail : info@tsts.in</p>		IPU.2107B/3	REVISION	C/S	TITLE: <b>MICROLOK II VITAL OUTPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 5</b>			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE							
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेय सं	वि B			ताटिचेर्ला TATICHERLA	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3	S.C.RLY.DRG.NO				00206		
								शीट SHEET	कुल शीट SHEETS	CONT'D ON:					
								00205	00070						

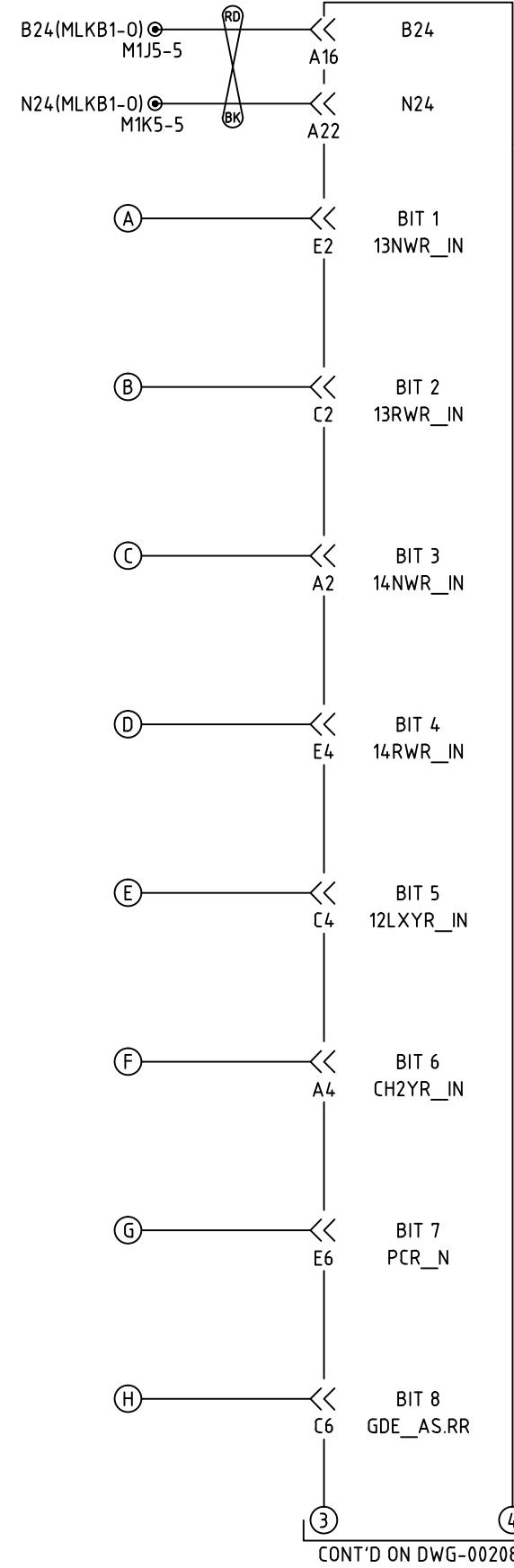


						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781, 82, 83 E-mail : info@tsts.in		IPU.2107B/3	REVISION	CH- AP.	TITLE: <b>MICROLOK II VITAL OUTPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 5</b>			SIGNAL & TELECOMMUNICATIONS  ताटिचेर्ला  TATICHERLA	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE	REF.SIG.PLAN.NO. IPU.2107B/3	द म रेलवे आरेय सं S.C.RLY.DRG.NO	वि B				
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		शीट SHEET कुल शीट SHEETS	CONT'D ON:	00207			SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL		
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			00206	00070						

MLK II VITAL OUTPUT BOARD  
M1A1.SLOT6



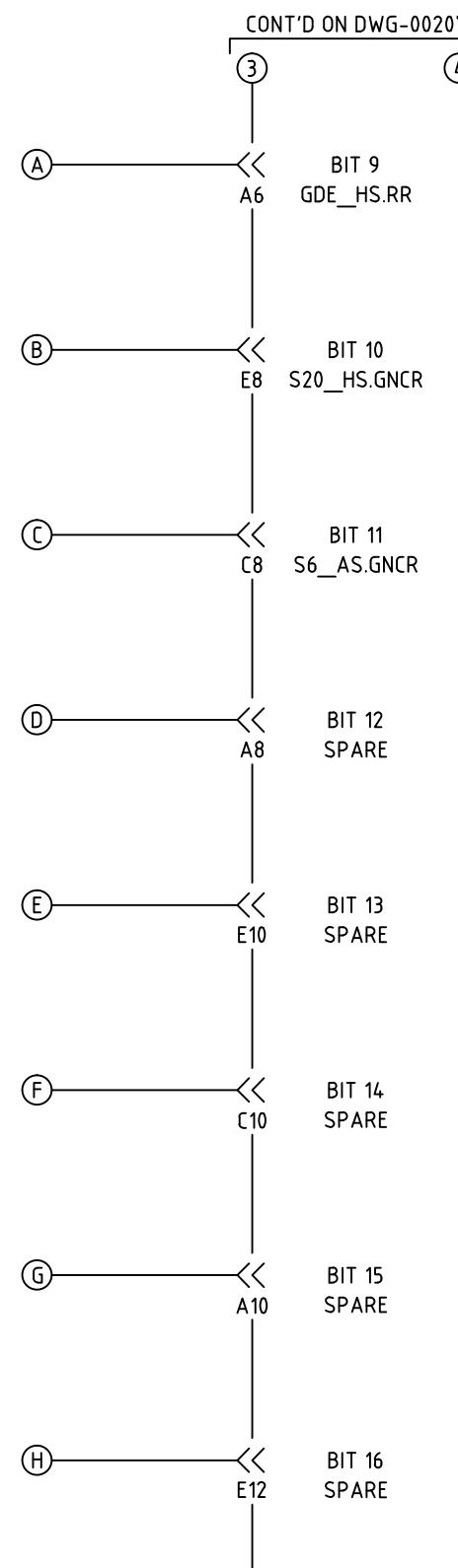
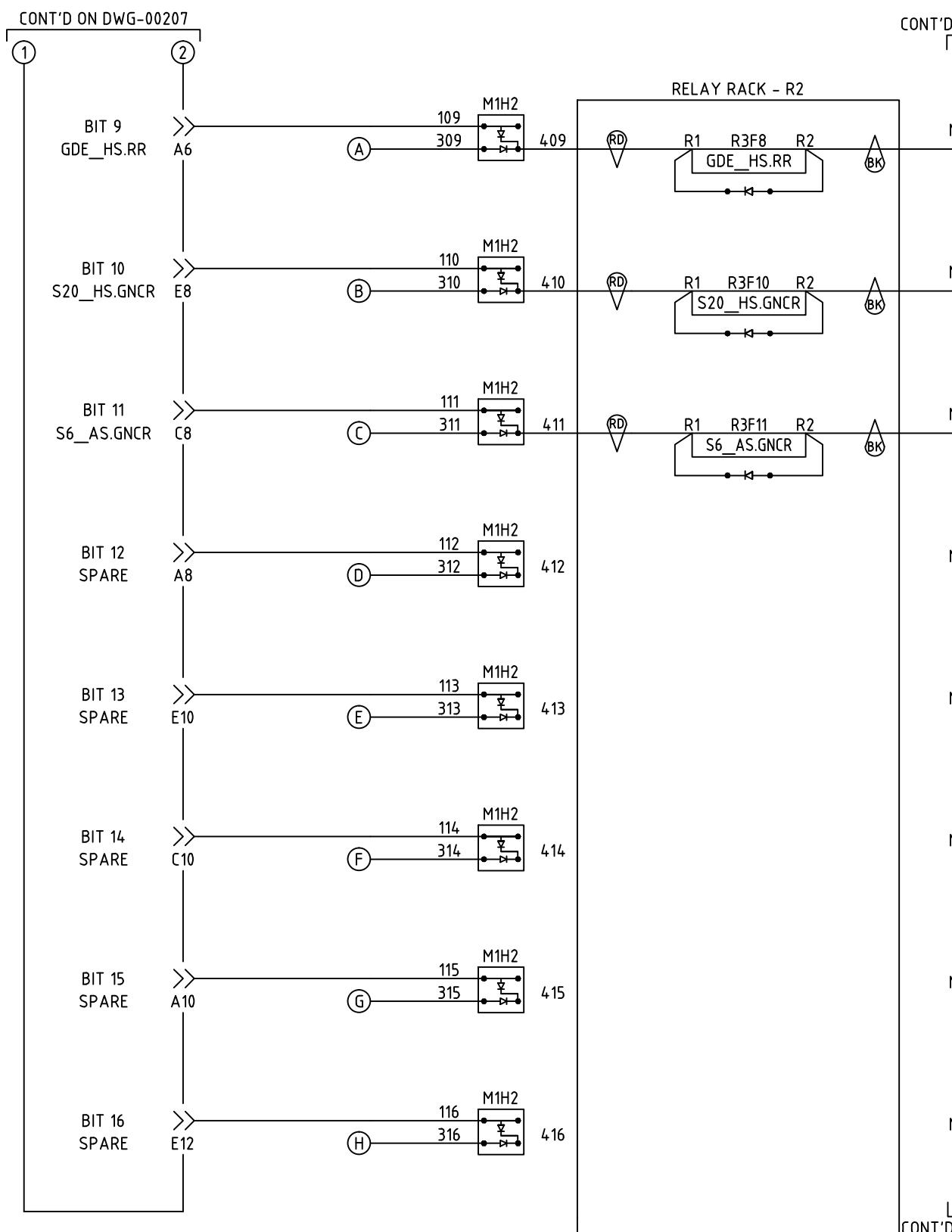
MLK II VITAL OUTPUT BOARD  
M1B1.SLOT6



NOTE:

- ALL WIRES 0.5sq.mm (BLACK COLOUR) UNLESS OTHERWISE STATED
- WIRES FROM MICROLOK II VITAL OUTPUT BOARD TO MLK RACK (DIODE TERMINALS) ARE OF SIZE 0.5sq.mm (RED COLOUR).
- SUPPLY WIRES ARE OF SIZE 0.5sq.mm, "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE.
- K1 • DIODE TYPE IN4007 MOUNTED BEHIND Q-BASE ACROSS RELAY COIL.
- RELAY COILS WIRES ARE OF SIZE 0.5 sq mm "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	CHK.	IPU.2107B/3	REVISION	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS		
							JE/Drg				
							SE/SSE/Drg				
							ASTE/D				
							SSTE/P & P				
							f CSTE	APP.	REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO द म रेलवे आरक्ष संख्या बि. B शीट SHEET कुल शीट SHEETS CONT'D ON: 00207 00070 00208	तातिचेर्ला TATICHERLA	
00	16.07.15	PR	RS	RSS	ASMADE				SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL		
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		(MICROLOK-II WARM STANDBY)		

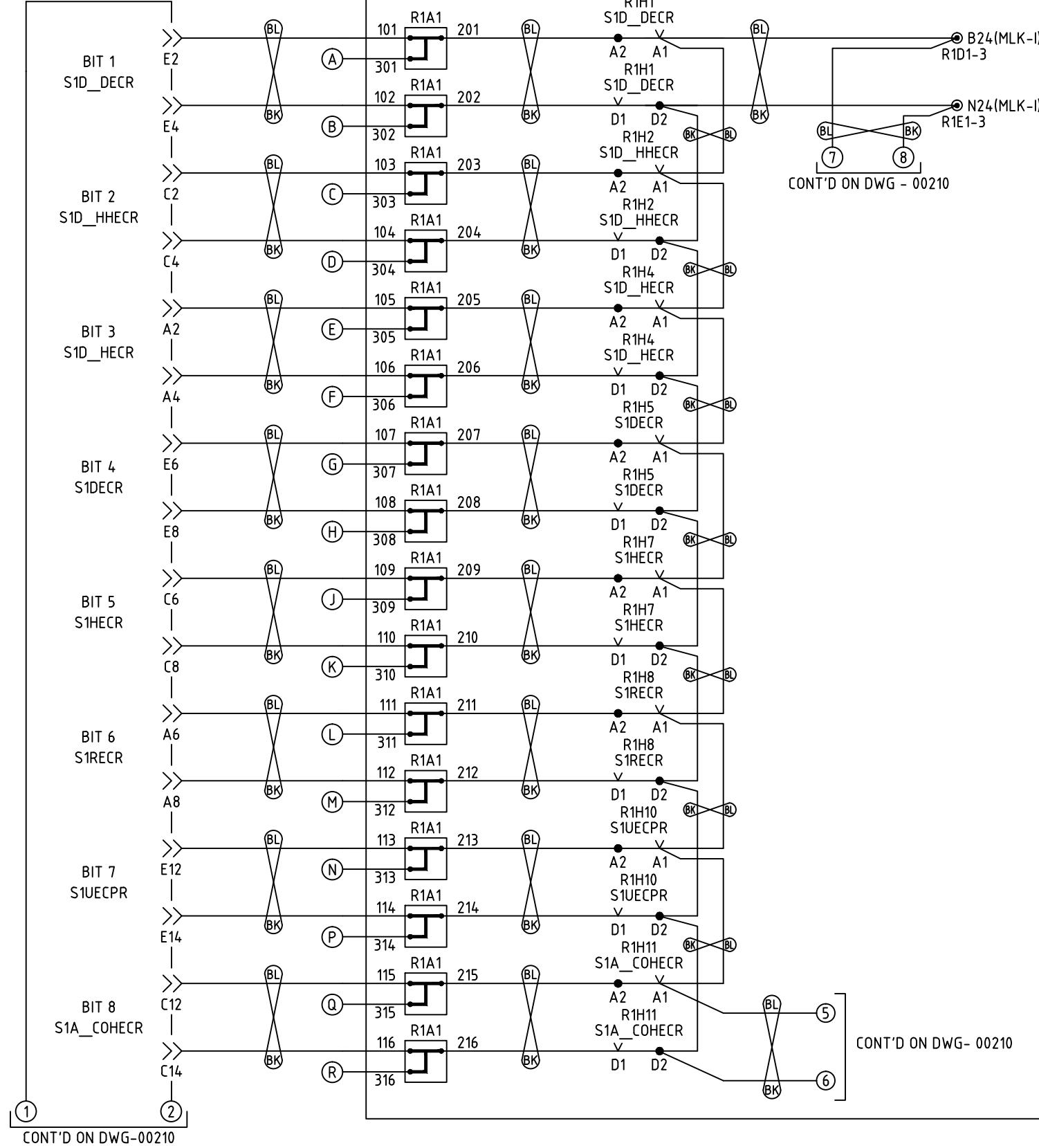


NOTE:

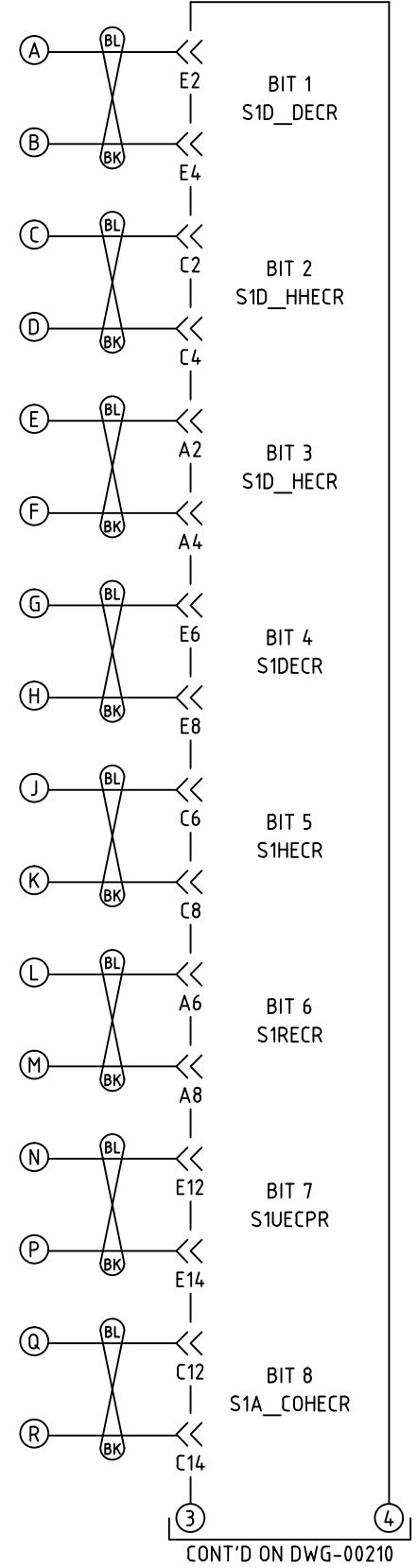
1. ALL WIRES 0.5sq.mm (BLACK COLOUR) UNLESS OTHERWISE STATED.
2. WIRES FROM MICROLOK II VITAL OUTPUT BOARD TO MLK RACK (DIODE TERMINALS) ARE OF SIZE 0.5sq.mm (RED COLOUR).
3. DIODE TYPE IN4007 MOUNTED BEHIND Q-BASE ACROSS RELAY COIL.
4. RELAY COILS WIRES ARE OF SIZE 0.5 sq mm "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@sts.in		IPU.2107B/3	REVISION	C.R.	TITLE: MICROLOK II VITAL OUTPUT CIRCUITS M1A1/M1B1- SLOT 6			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE							
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेक सं	S.C.RLY.DRG.NO	बि B		ताटिचेर्ला TATICHERLA		
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3					SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL		
						शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00209	00208	00070				

MLK II VITAL INPUT BOARD  
M1A1.SLOT7



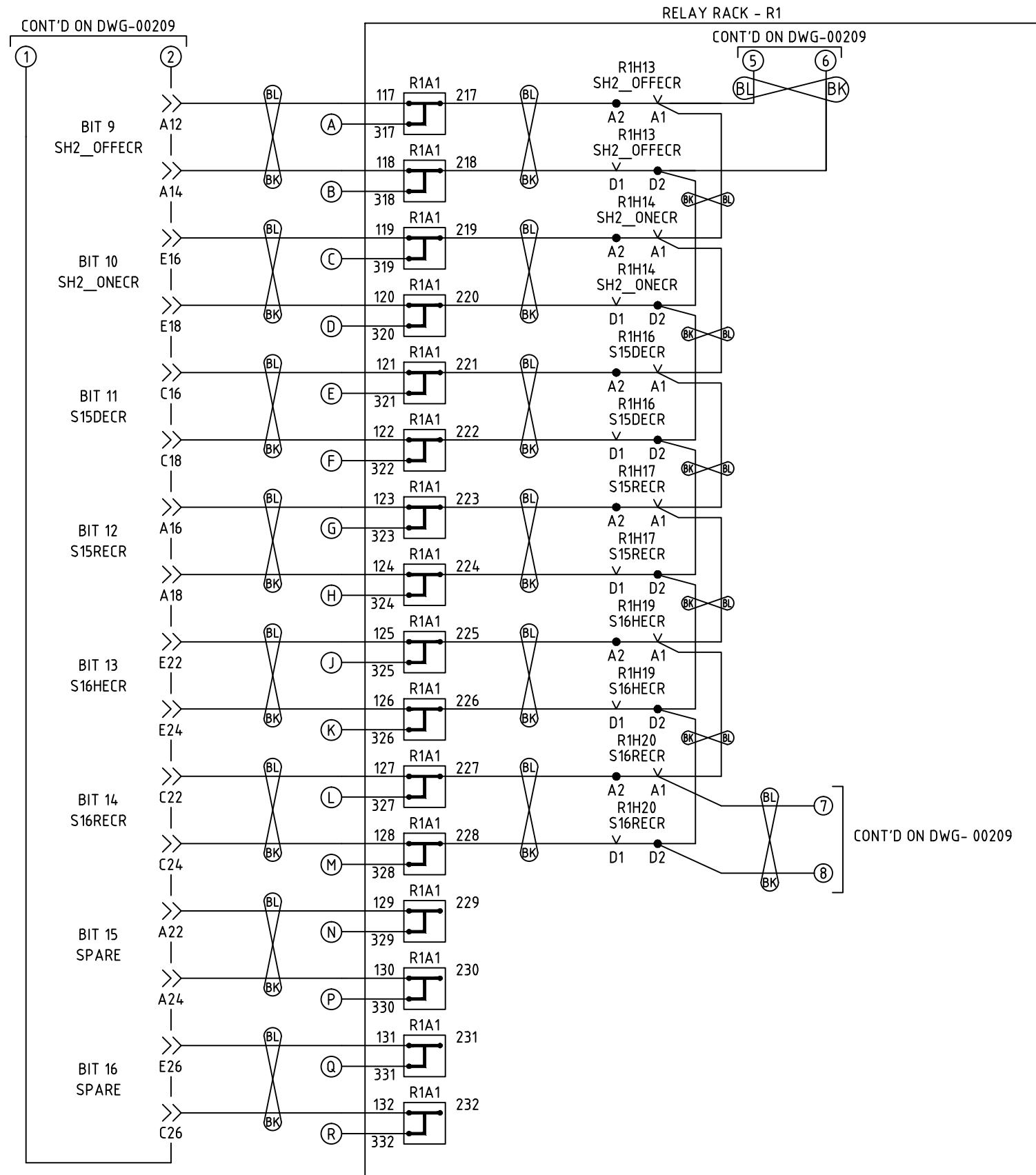
MLK II VITAL INPUT BOARD  
M1B1.SLOT7



NOTE:

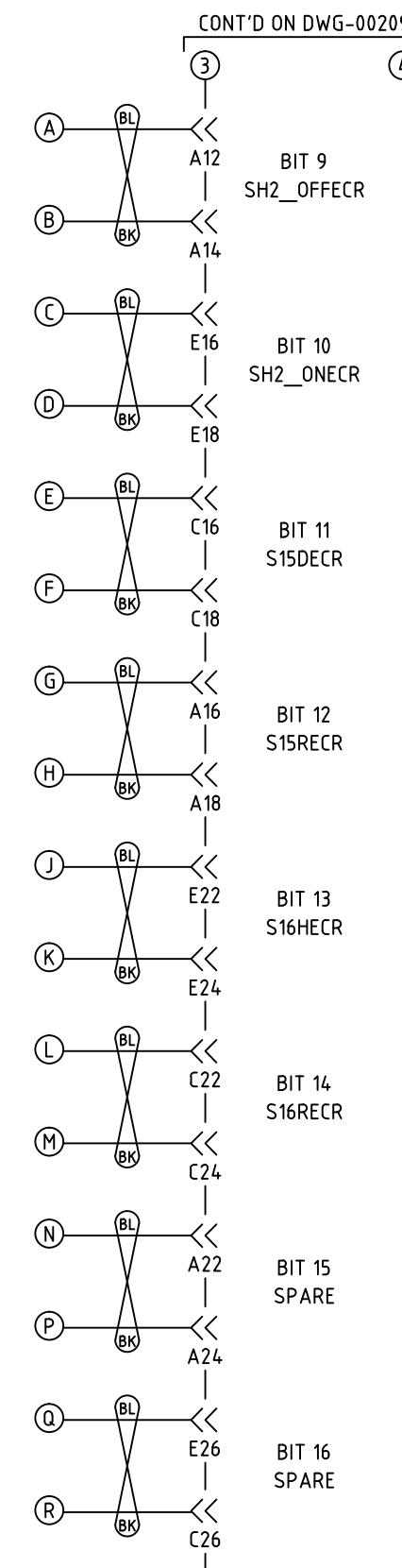
WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm., "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>IPU.2107B/3</b> <b>REVISION</b> <hr/> <b>JE/Drg</b> <hr/> <b>SE/SSE/Drg</b> <hr/> <b>ASTE/D</b> <hr/> <b>SSTE/P &amp; P</b> <hr/> <b>f CSTE</b> <hr/> <b>APP.</b> <b>00209</b>	<b>CHK.</b> <b>TITLE:</b> <b>MICROLOK II VITAL INPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 7</b> <hr/> <b>REF.SIG.PLAN.No.</b> <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> <b>IPU.2107B/3</b> <input type="text"/> S.C.RLY.DRG.NO <input type="text"/> <hr/> <b>शीट SHEET</b> <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> <b>00070</b> <input type="text"/> 00210	<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b> <hr/> <b>तातिचेर्ला</b> <b>TATICHERLA</b> <hr/> <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>
00	16.07.15	PR	RS	RSS				
				ASMADE				
REV	DATE	DESIGNED	CHECKED	APPROVED				
				MODIFICATION				
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				



NOTE:

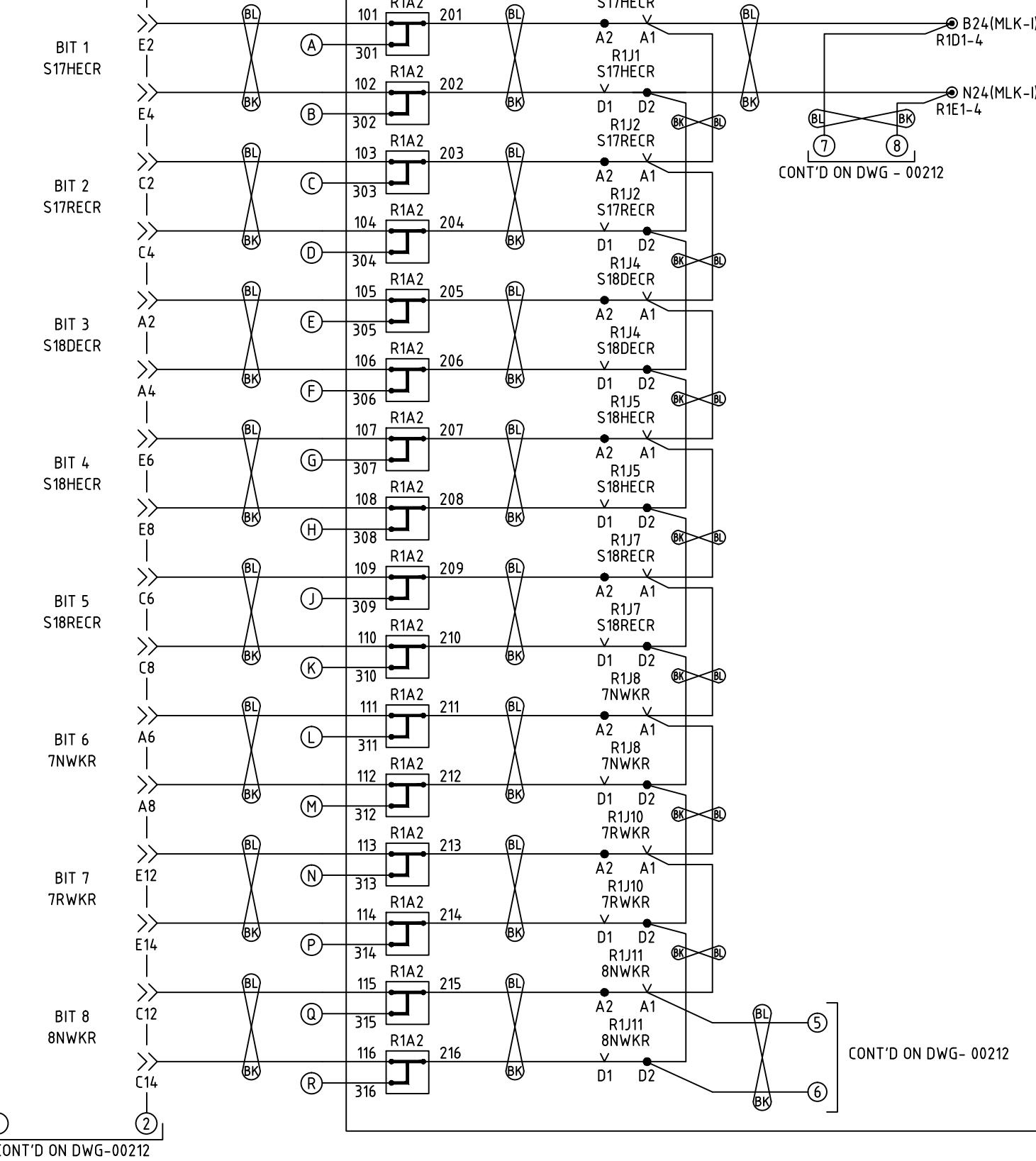
WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.



					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: MICROLOK II VITAL INPUT CIRCUITS			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		JE/Drg			M1A1/M1B1- SLOT 7			तातिचेर्ला TATICHERLA
00	16.07.15	PR	RS	RSS	ASMADE		SE/SSE/Drg			REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	वि B	
							ASTE/D			IPU.2107B/3	S.C.RLY.DRG.NO		
							SSTE/P & P			शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00211
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	f CSTE	APP.		00210	00070		SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL

MLK II VITAL INPUT BOARD  
M1A1.SLOT8

BIT 1  
S17HECR



RELAY RACK - R1

CONT'D ON DWG - 00212

BIT 2  
S17RECR

BIT 3  
S18DECR

BIT 4  
S18HECR

BIT 5  
S18RECR

BIT 6  
7NWKR

BIT 7  
7RWKR

BIT 8  
8NWKR

MLK II VITAL INPUT BOARD  
M1B1.SLOT8

BIT 1  
S17HECR

BIT 2  
S17RECR

BIT 3  
S18DECR

BIT 4  
S18HECR

BIT 5  
S18RECR

BIT 6  
7NWKR

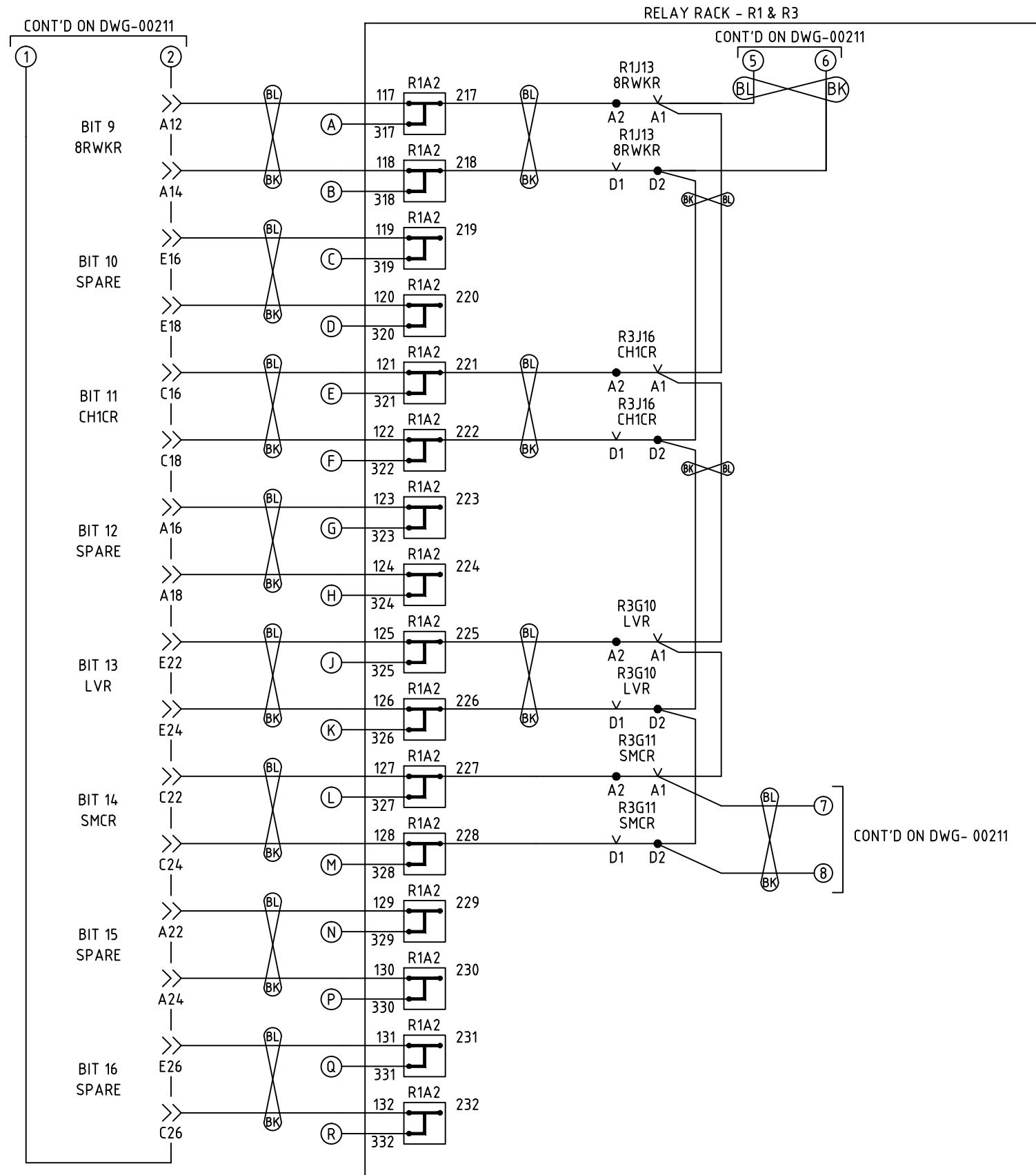
BIT 7  
7RWKR

BIT 8  
8NWKR

NOTE:

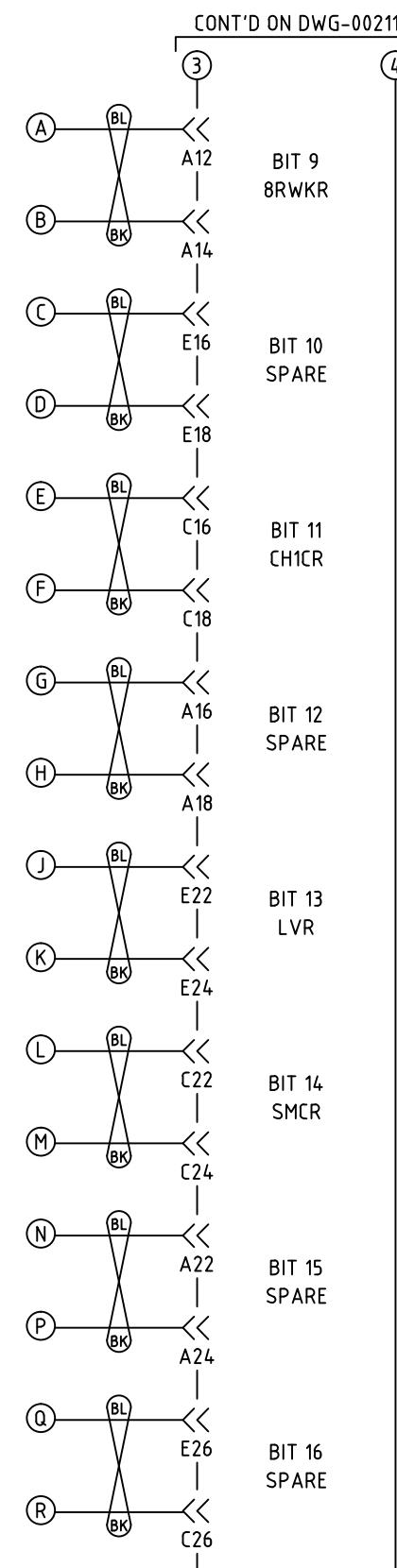
WIRES FOR MICROLOK II VITAL INPUT ARE OF  
SIZE 0.5sq.mm., "TWISTED PAIR BLUE/BLACK"  
WITH "BL" BEING +ve "BK" BEING -ve.

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>CHK.</b> IPU.2107B/3 JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	<b>TITLE:</b> <b>MICROLOK II VITAL INPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 8</b>	<b>SIGNAL &amp; TELECOMMUNICATIONS</b> <b>तातिचेर्ला</b> <b>TATICHERLA</b>		
00	16.07.15	PR	RS	RSS							
				ASMADE							
REV	DATE	DESIGNED	CHECKED	APPROVED							
				MODIFICATION							
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012							

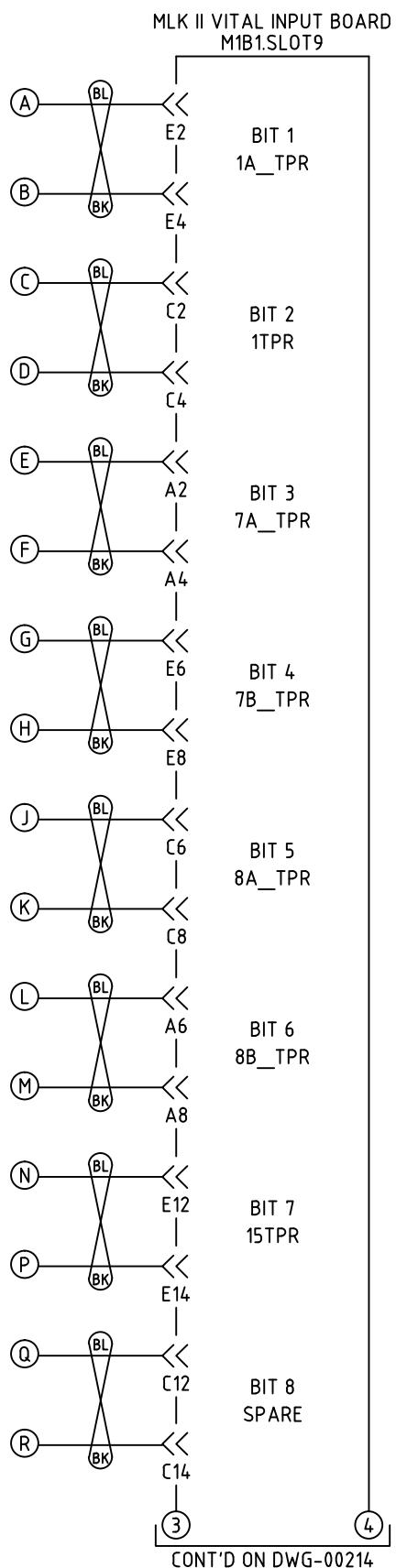
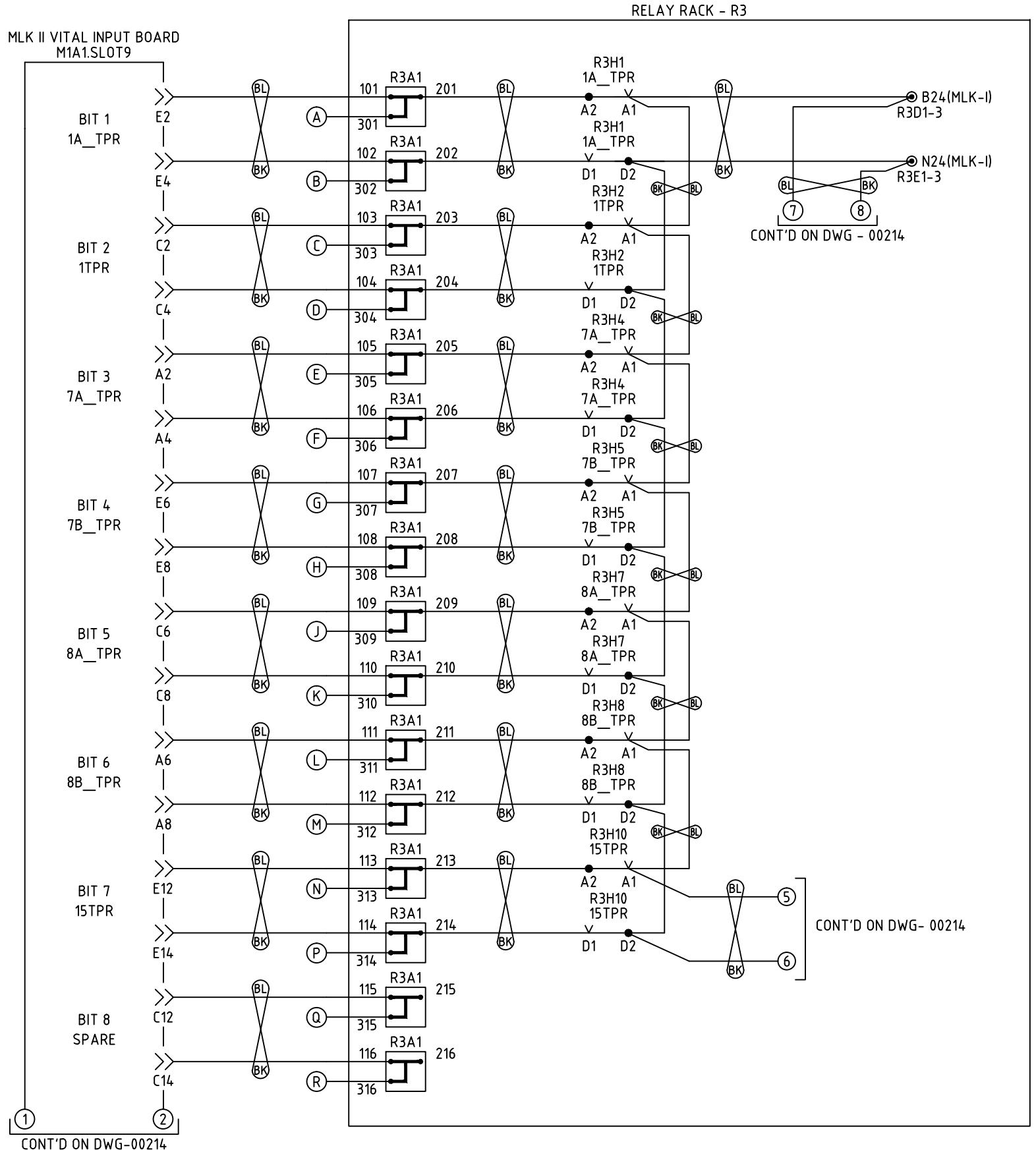


**NOTE:**

WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.



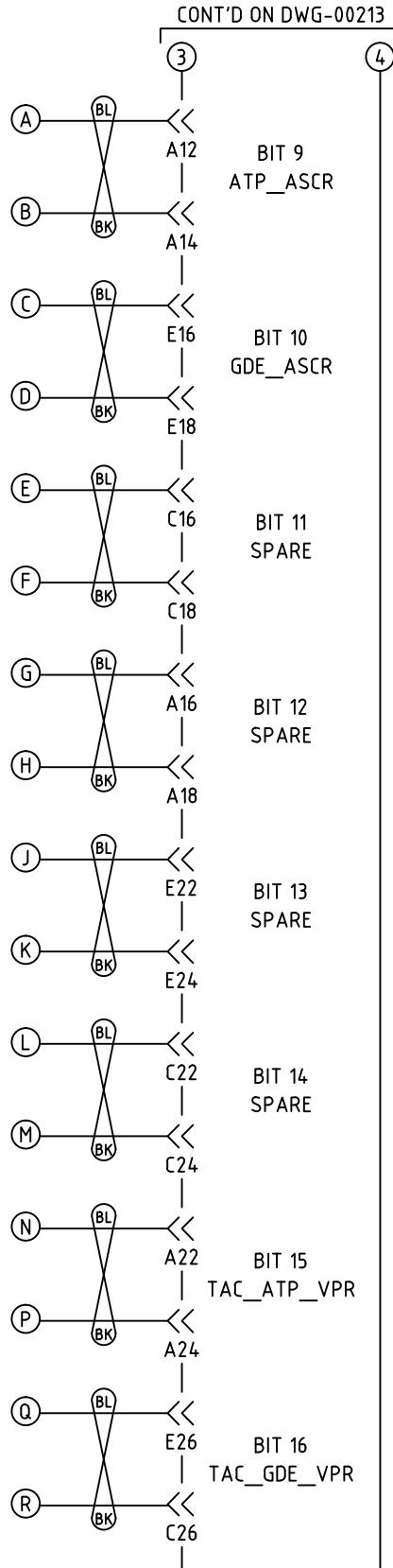
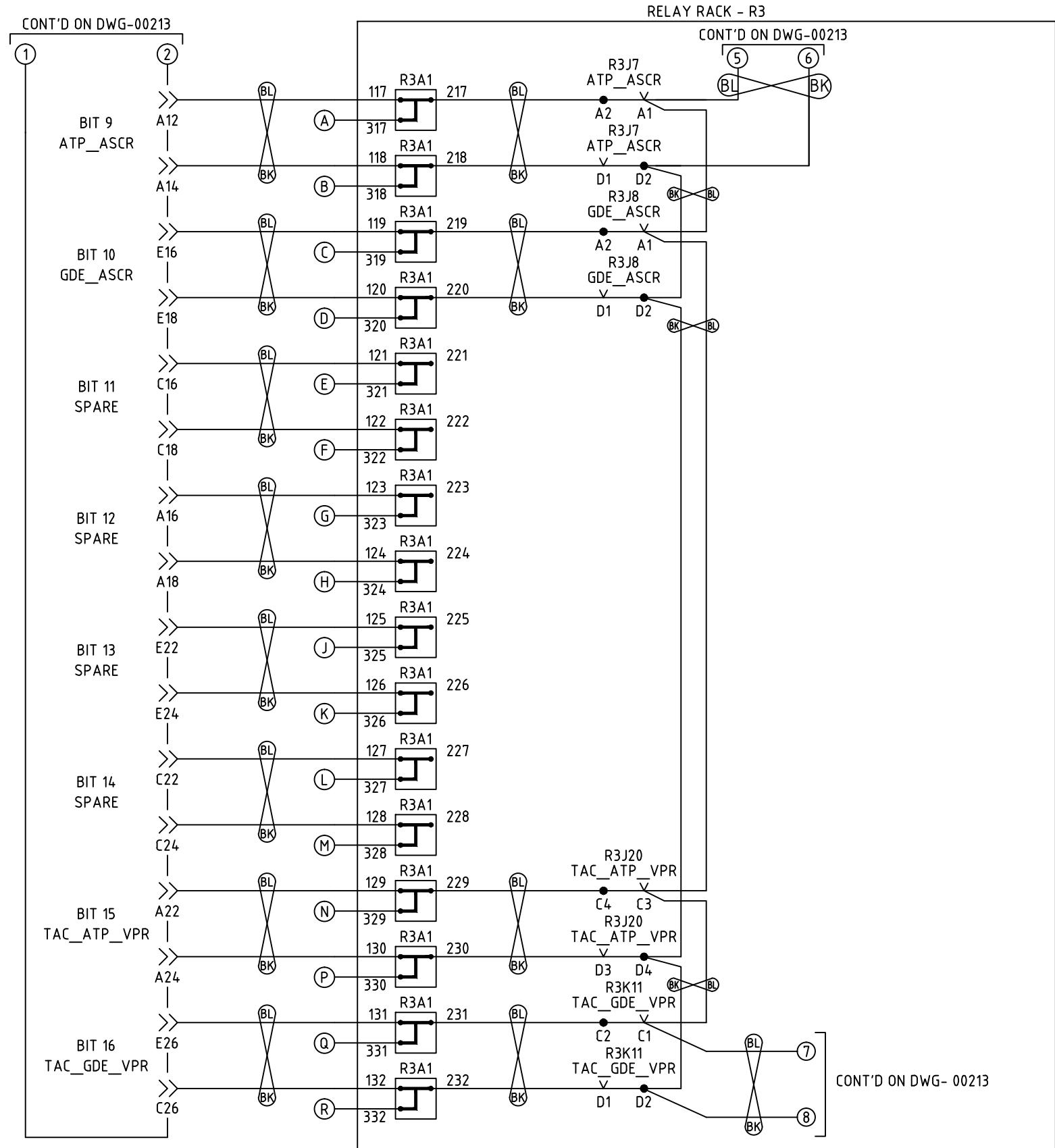
					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	CHK.	IPU.2107B/3	REVISION	SIGNAL & TELECOMMUNICATIONS		
							JE/Drg				
							SE/SSE/Drg				
							ASTE/D				
							SSTE/P & P				
							f CSTE	APP.	REF.SIG.PLAN.No. IPU.2107B/3	द म रेलवे आरक्ष सं S.C.RLY.DRG.NO	
00	16.07.15	PR	RS	RSS	ASMADE				शीट SHEET 00212	कुल शीट SHEETS 00070	CONT'D ON: 00213
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION						
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012						



**NOTE:**

WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.

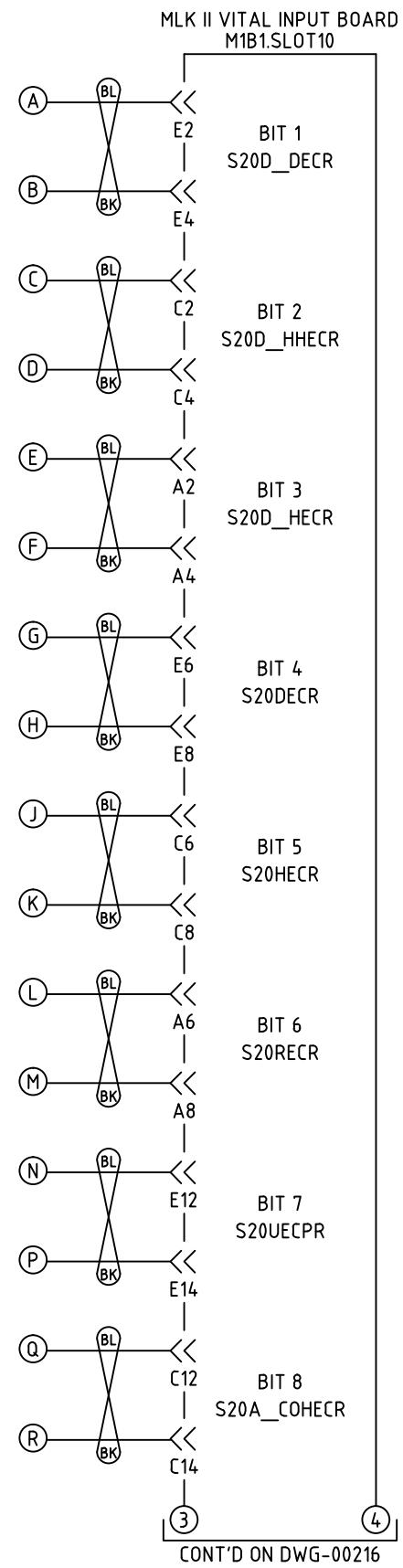
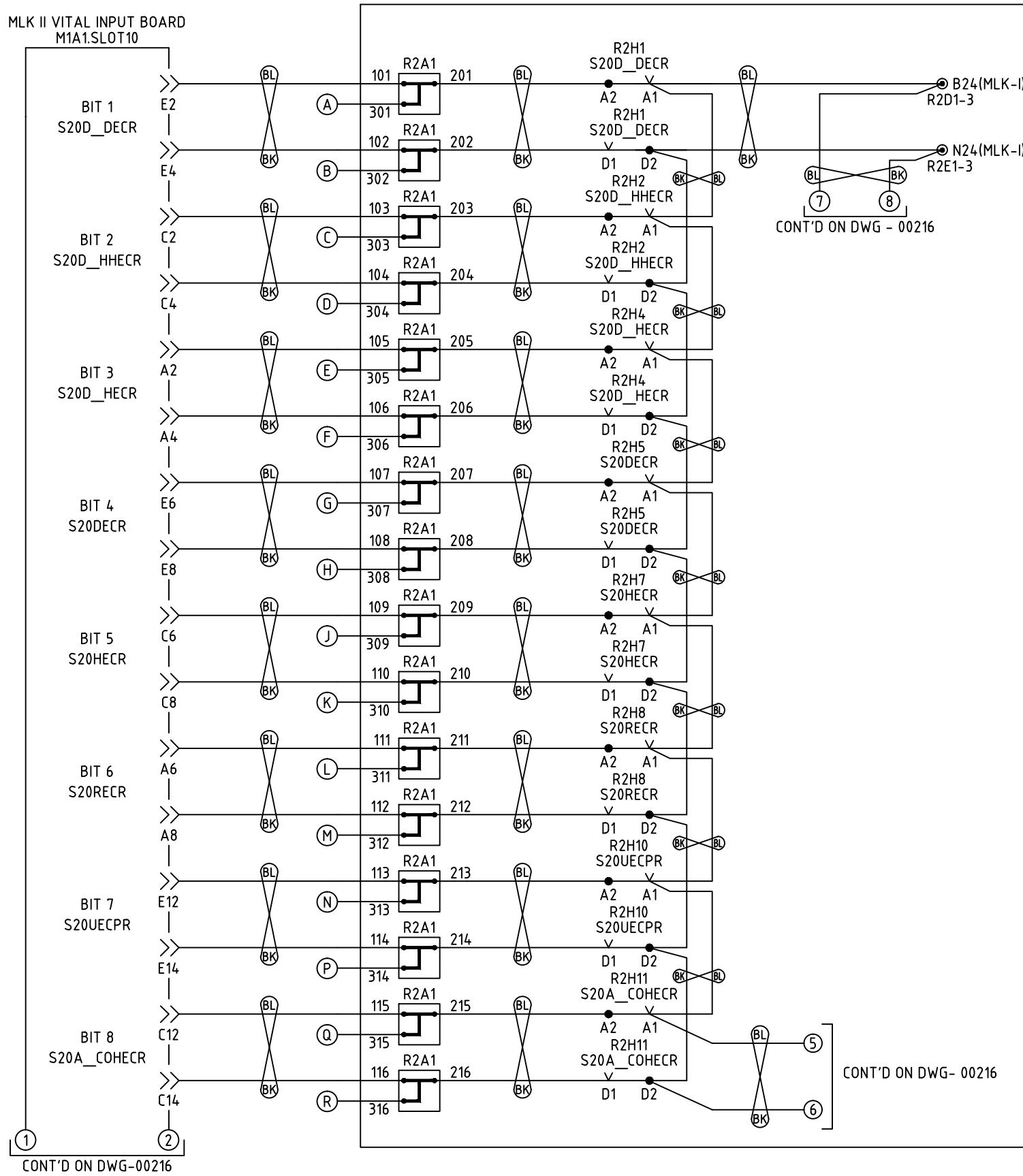
						 <p><b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b>  #610, "NARAYANA", 1st Floor, 15th Cross,  100 Feet Road, J.P.Nagar, 6th Phase,  Bengaluru - 560 078  Tel: +91 80 2654 0781,82,83  E-mail : info@tsts.in</p>		IPU.2107B/3	REVISION	C/R.	TITLE: <b>MICROLOK II VITAL INPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 9</b>			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE							
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेख सं	बि	B		ताटिचेर्ला TATICHERLA		
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3	S.C.RLY.DRG.NO.	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00214	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL	
								00213	00070						



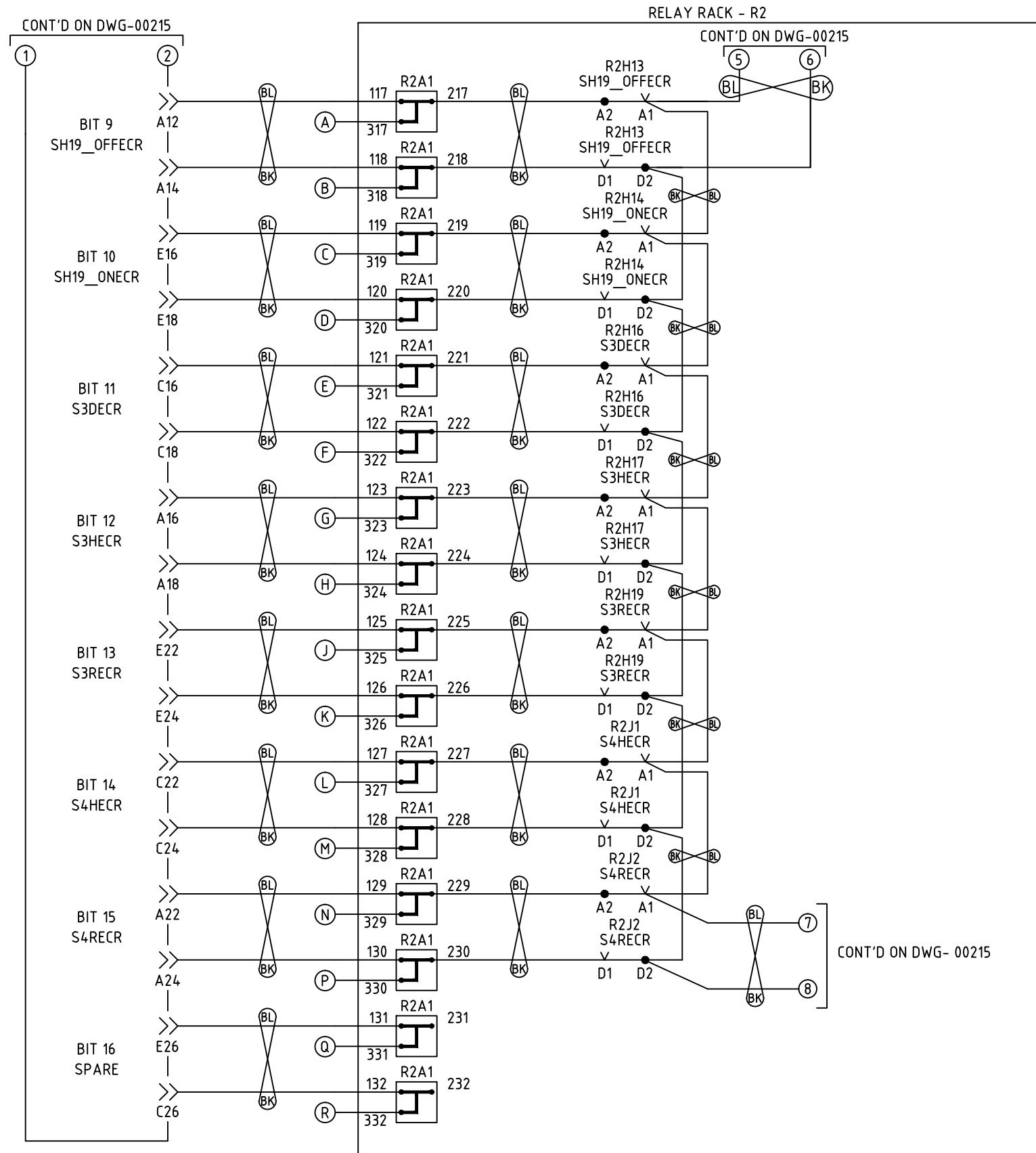
**NOTE:**

WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm., "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.

						<p><b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b>  #610, "NARAYANA", 1st Floor, 15th Cross,  100 Feet Road, J.P.Nagar, 6th Phase,  Bengaluru - 560 078  Tel: +91 80 2654 0781,82,83  E-mail : info@tsts.in</p>		IPU.2107B/3	REVISION	CHK.	TITLE:  MICROLOK II VITAL INPUT CIRCUITS M1A1/M1B1- SLOT 9			SIGNAL & TELECOMMUNICATIONS	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE							
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेख सं	बि B			TATICHERLA	SOUTH CENTRAL RAILWAY	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3	S.C.RLY.DRG.NO.						
								शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00215				
								00214	00070						

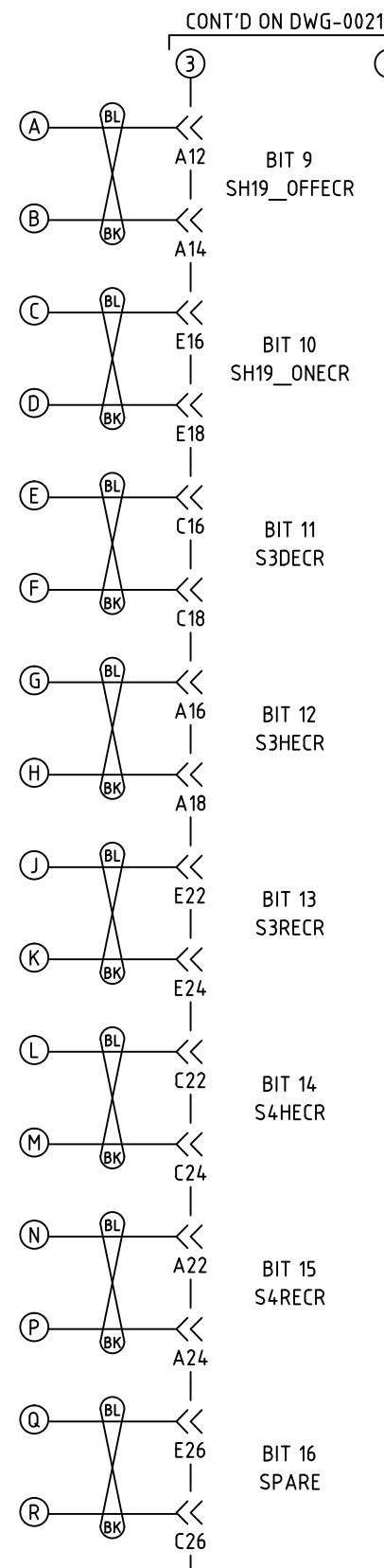


					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	CHK.	IPU.2107B/3	REVISION	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS		
							JE/Drg				
							SE/SSE/Drg				
							ASTE/D				
							SSTE/P & P				
							f CSTE	APP.	REF.SIG.PLAN.No. IPU.2107B/3	द म रेलवे आरक्ष सं. S.C.RLY.DRG.NO B	
00	16.07.15	PR	RS	RSS	ASMADE				शीट SHEET 00215	कुल शीट SHEETS 00070	CONT'D ON: 00216
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION						
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012						



NOTE:

WIRES FOR MICROLOK II VITAL INPUT ARE OF  
SIZE 0.5sq.mm., "TWISTED PAIR BLUE/BLACK"  
WITH "BL" BEING +ve "BK" BEING -ve.

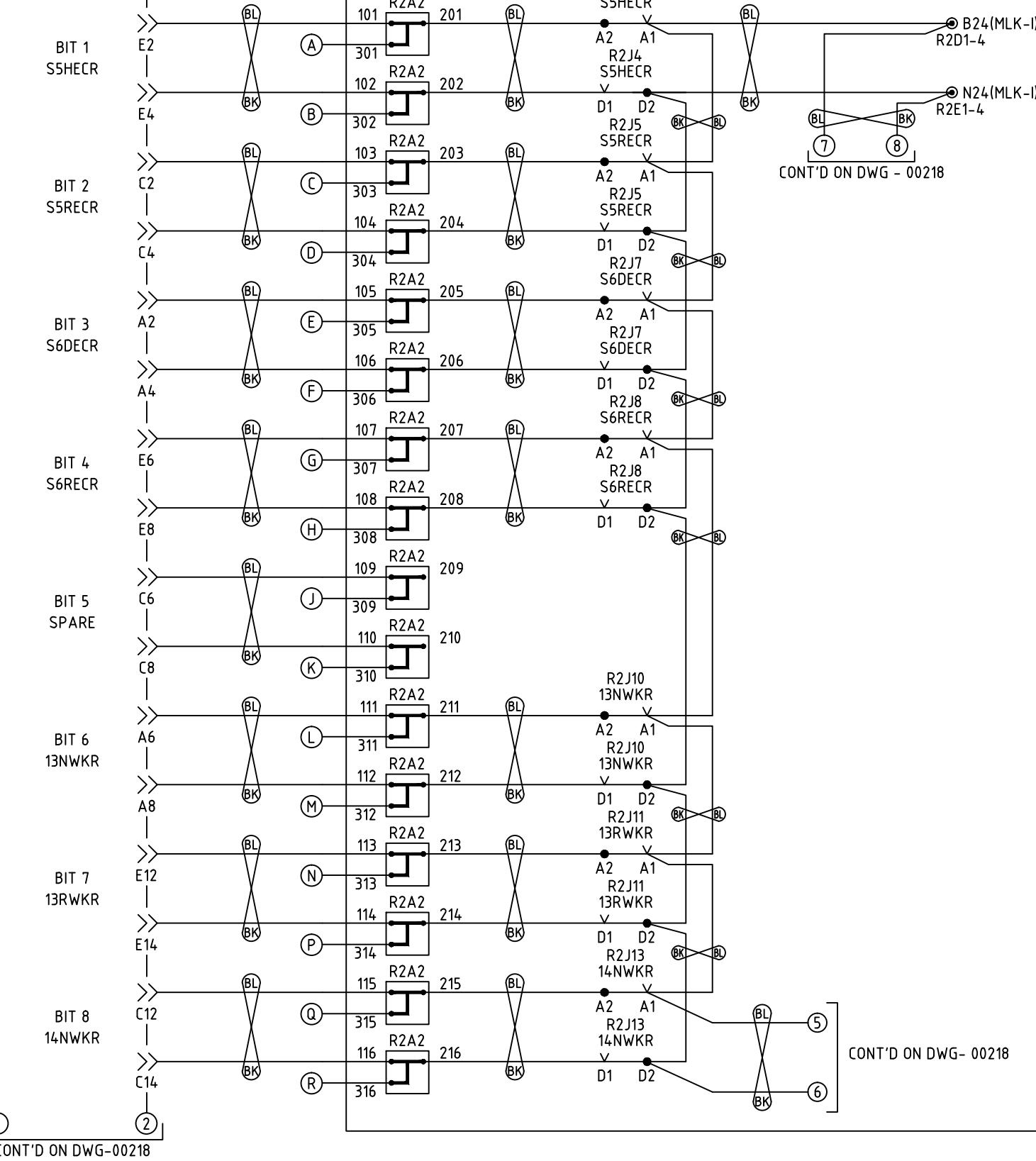


					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

CHK.	TITLE:	MICROLOK II VITAL INPUT CIRCUITS			SIGNAL & TELECOMMUNICATIONS
		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	S.C.RLY.DRG.NO	
	IPU.2107B/3	JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
		f CSTE	शीट SHEET	कुल शीट SHEETS	CONT'D ON:
			00216	00070	00217
					SOUTH CENTRAL RAILWAY
					DIVISION: GUNTAKAL

MLK II VITAL INPUT BOARD  
M1A1.SLOT11

BIT 1  
S5HECR



BIT 2  
S5RECR

BIT 3  
S6DECR

BIT 4  
S6RECR

BIT 5  
SPARE

BIT 6  
13NWKR

BIT 7  
13RWKR

BIT 8  
14NWKR

RELAY RACK - R2

R2J4  
S5HECR  
V  
A2 A1  
R2J4  
S5HECR  
V  
D1 D2  
R2J5  
S5RECR  
V  
A2 A1  
R2J5  
S5RECR  
V  
D1 D2  
R2J7  
S6DECR  
V  
A2 A1  
R2J7  
S6DECR  
V  
D1 D2  
R2J8  
S6RECR  
V  
A2 A1  
R2J8  
S6RECR  
V  
D1 D2

CONT'D ON DWG - 00218

MLK II VITAL INPUT BOARD  
M1B1.SLOT11

BIT 1  
S5HECR

BIT 2  
S5RECR

BIT 3  
S6DECR

BIT 4  
S6RECR

BIT 5  
SPARE

BIT 6  
13NWKR

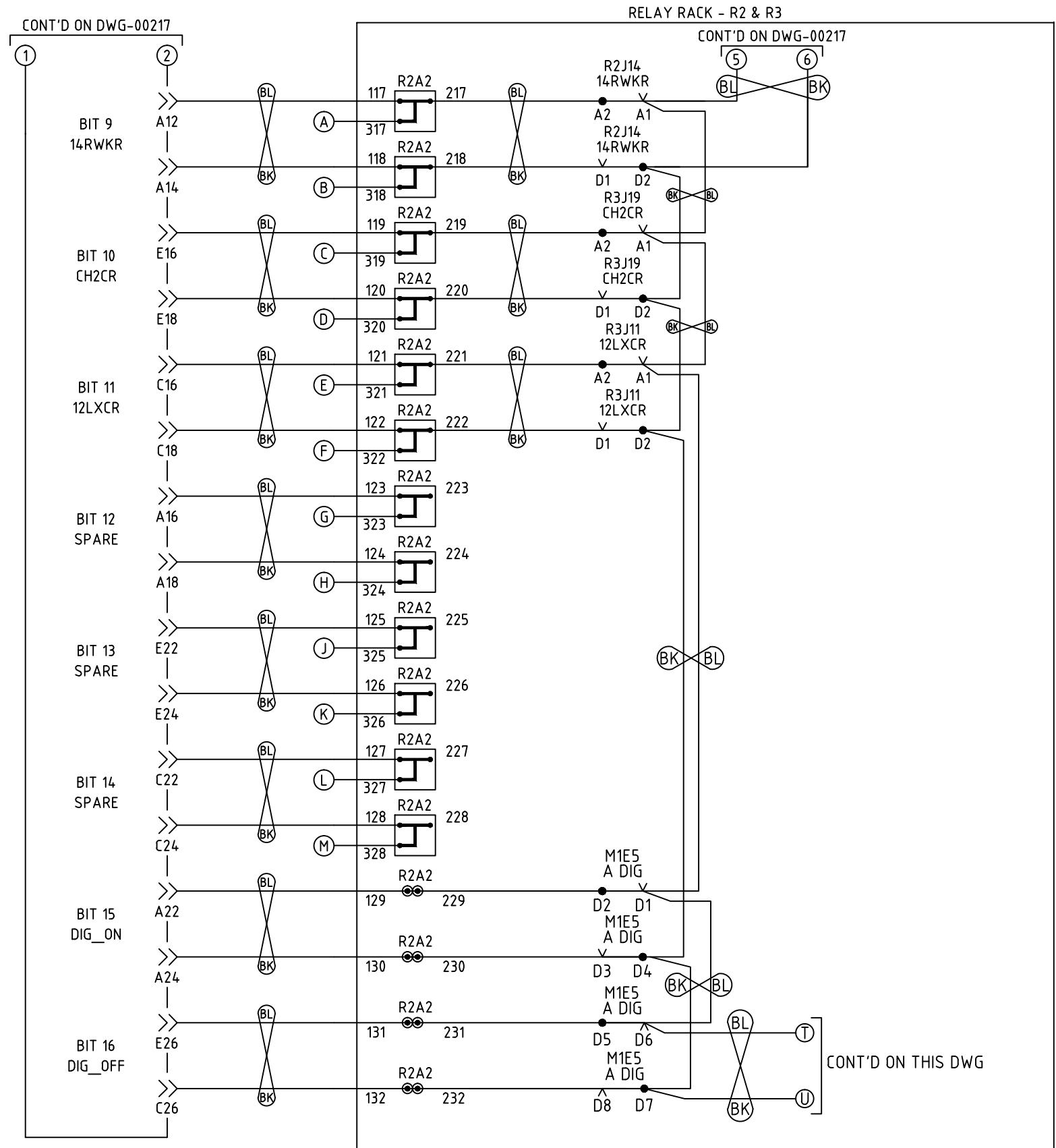
BIT 7  
13RWKR

BIT 8  
14NWKR

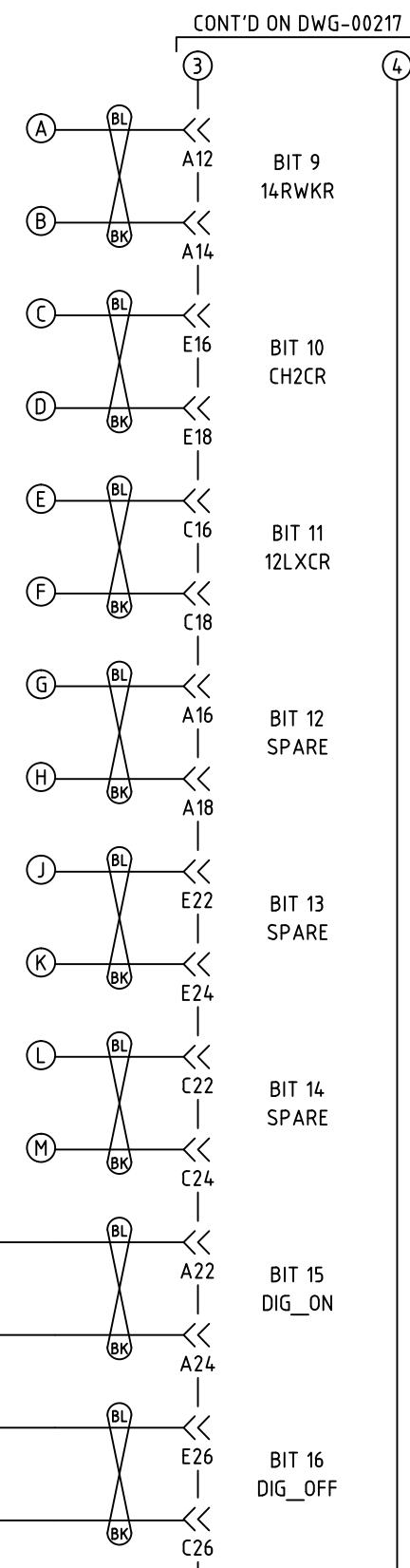
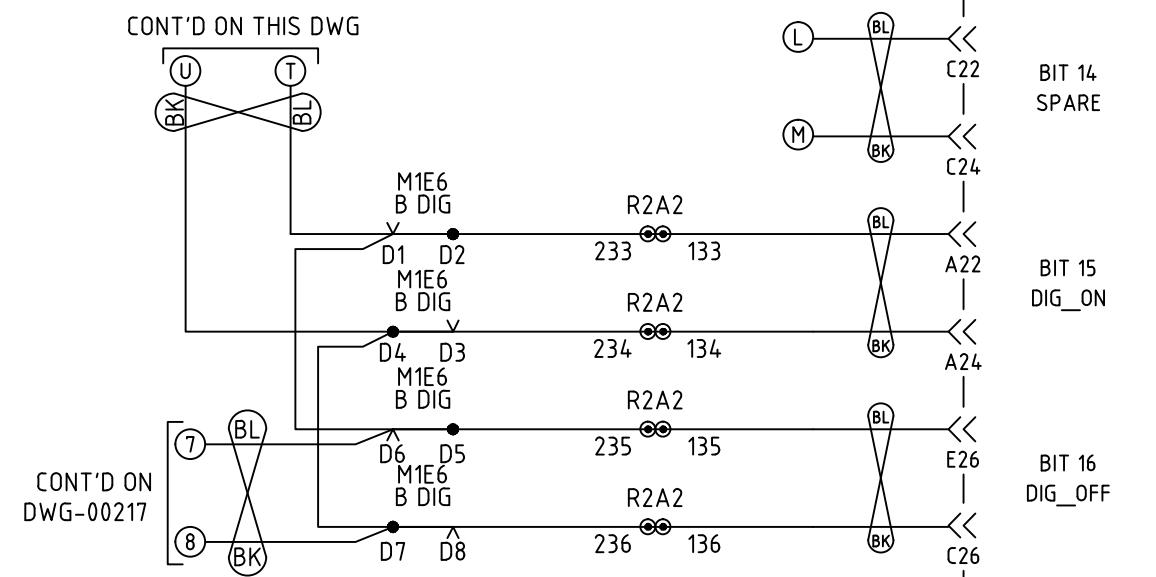
NOTE:

WIRES FOR MICROLOK II VITAL INPUT ARE OF  
SIZE 0.5sq.mm., "TWISTED PAIR BLUE/BLACK"  
WITH "BL" BEING +ve "BK" BEING -ve.

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>IPU.2107B/3</b> <b>REVISION</b> <hr/> <b>JE/Drg</b> <hr/> <b>SE/SSE/Drg</b> <hr/> <b>ASTE/D</b> <hr/> <b>SSTE/P &amp; P</b> <hr/> <b>f CSTE</b> <hr/> <b>APP.</b> 00217      00070	<b>CHK.</b> <b>TITLE:</b> <b>MICROLOK II VITAL INPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 11</b> <hr/> <b>REF.SIG.PLAN.No.</b> <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> वि <input type="text"/> <b>IPU.2107B/3</b> <input type="text"/> S.C.RLY.DRG.NO <input type="text"/> <b>शीट SHEET</b> <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00218	<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b> <hr/> <b>तातिचेर्ला</b> <b>TATICHERLA</b> <hr/> <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>
00	16.07.15	PR	RS	RSS				
REV	DATE	DESIGNED	CHECKED	APPROVED				



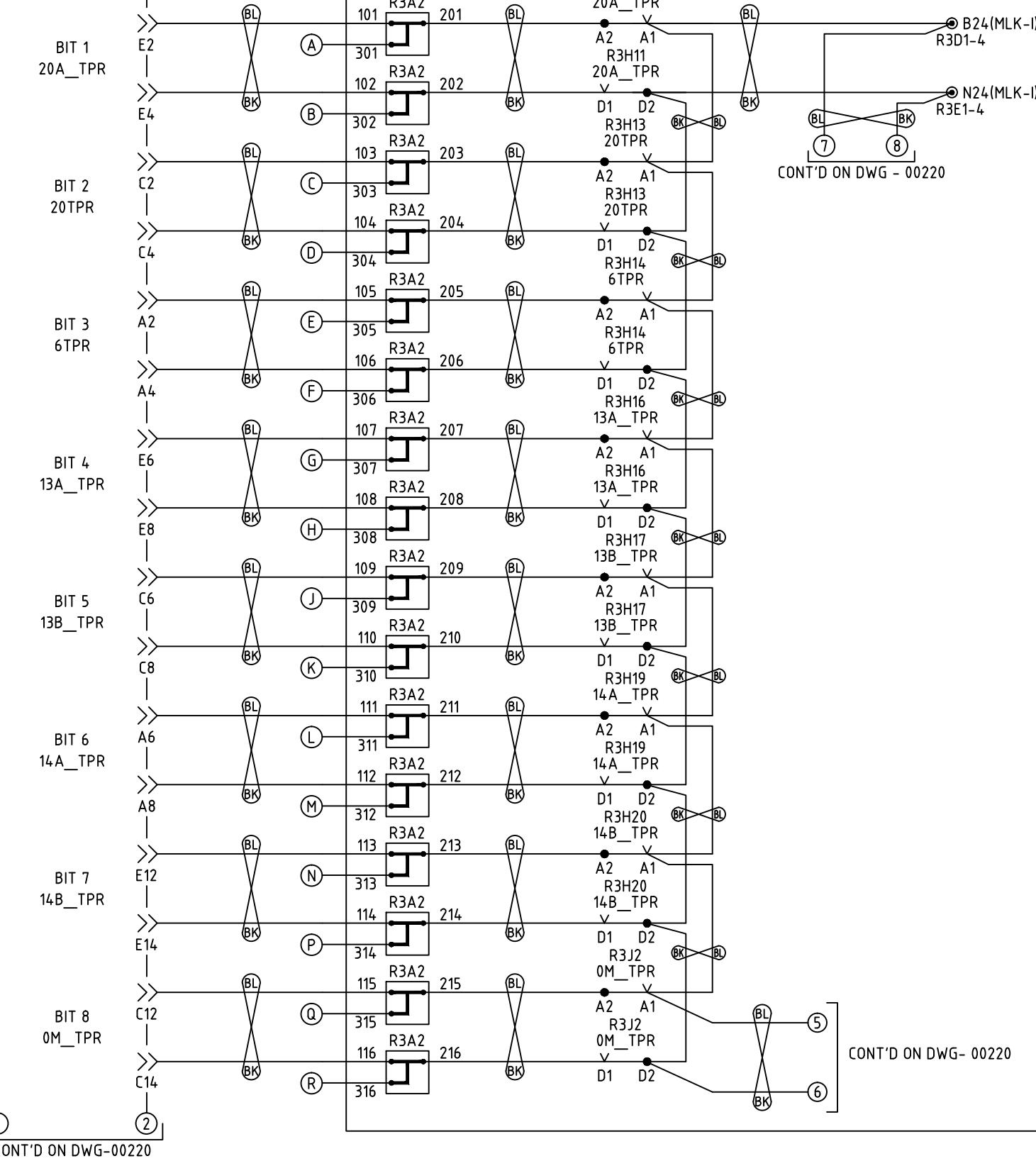
**NOTE:**  
WIRES FOR MICROLOK II VITAL INPUT ARE OF  
SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK"  
WITH "BL" BEING +ve "BK" BEING -ve.



					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: MICROLOK II VITAL INPUT CIRCUITS			सिग्नल व दूर संचार
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in			JE/Drg		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	वि B	SIGNAL & TELECOMMUNICATIONS
00	16.07.15	PR	RS	RSS	ASMADE			SE/SSE/Drg		IPU.2107B/3	S.C.RLY.DRG.NO		तातिचेर्ला
								ASTE/D		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	TATICHERLA
								SSTE/P & P		00218	00070	00219	SOUTH CENTRAL RAILWAY
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	f CSTE	APP.					DIVISION: GUNTAKAL

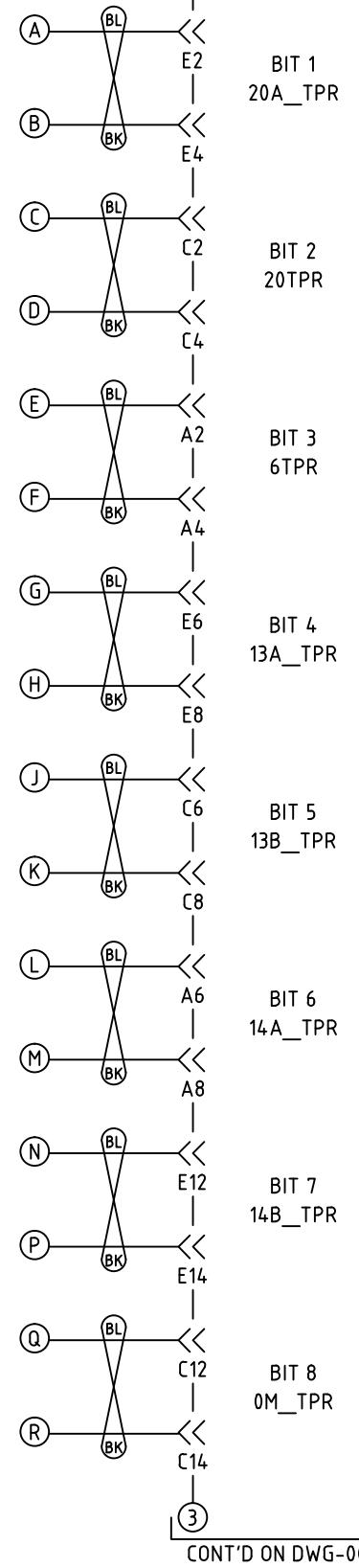
MLK II VITAL INPUT BOARD  
M1A1.SLOT12

BIT 1  
20A\_TPR



MLK II VITAL INPUT BOARD  
M1B1.SLOT12

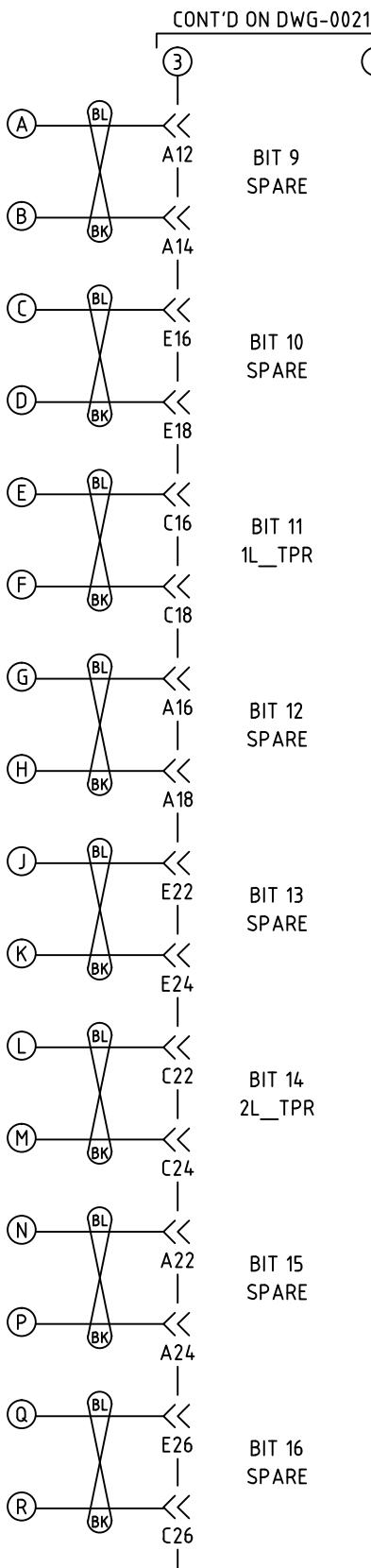
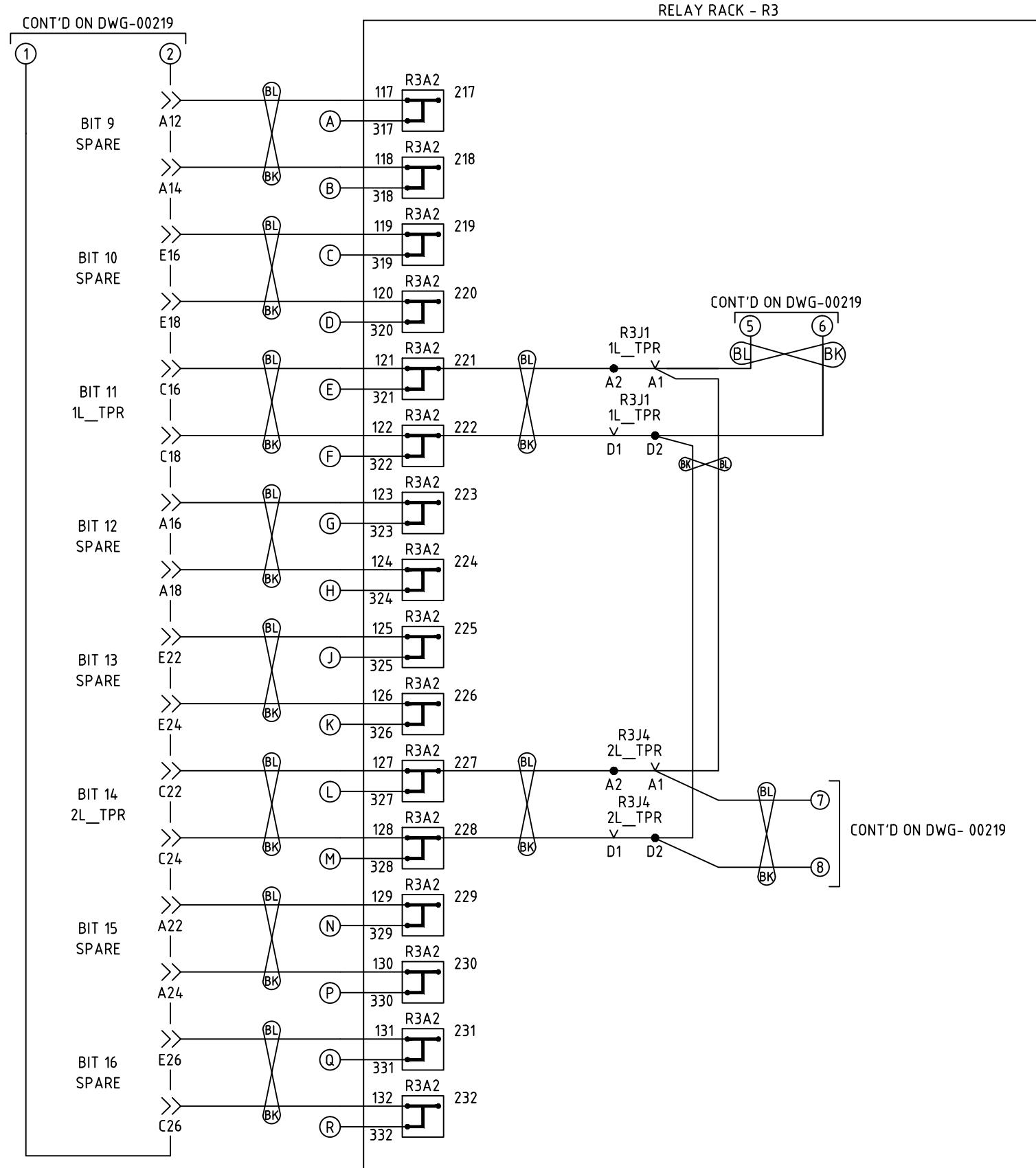
BIT 1  
20A\_TPR



NOTE:

WIRES FOR MICROLOK II VITAL INPUT ARE OF  
SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK"  
WITH "BL" BEING +ve "BK" BEING -ve.

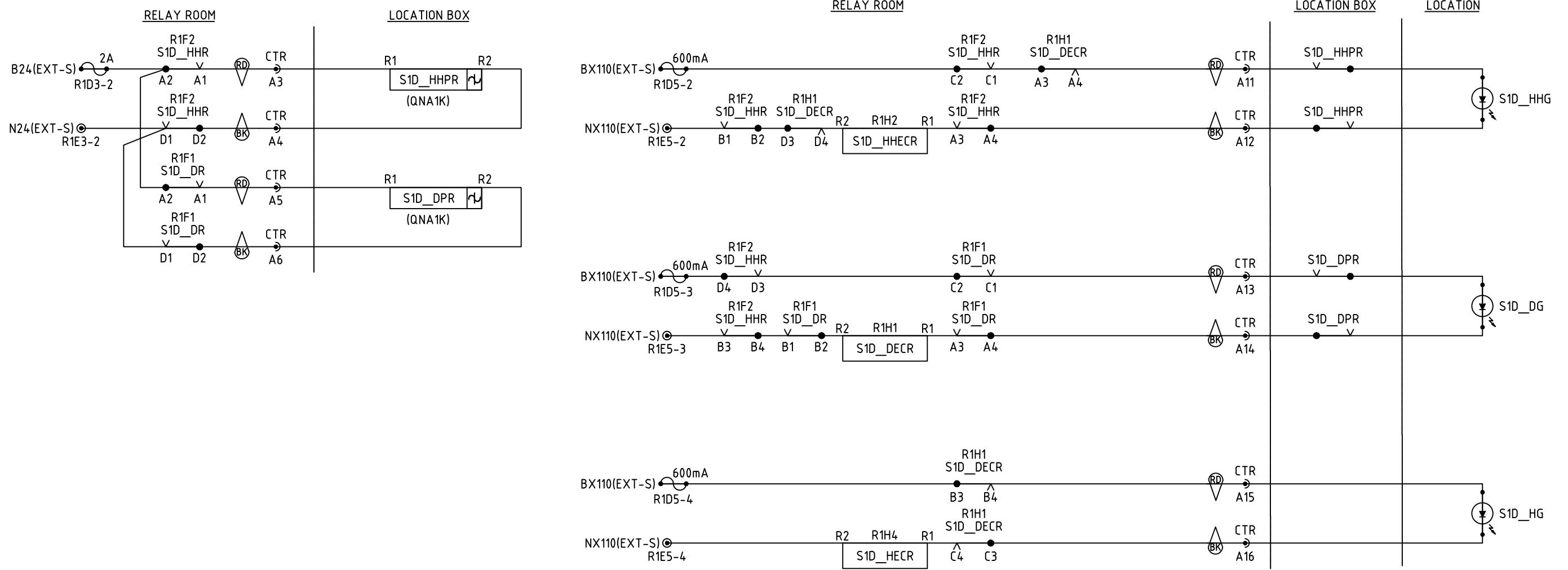
					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	CHK.	IPU.2107B/3	REVISION	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS			
							JE/Drg					
							SE/SSE/Drg					
							ASTE/D					
							SSTE/P & P					
							f CSTE	APP.	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं S.C.RLY.DRG.NO	बि B	
00	16.07.15	PR	RS	RSS	ASMADE				IPU.2107B/3			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00220
									00219	00070		



**NOTE:**

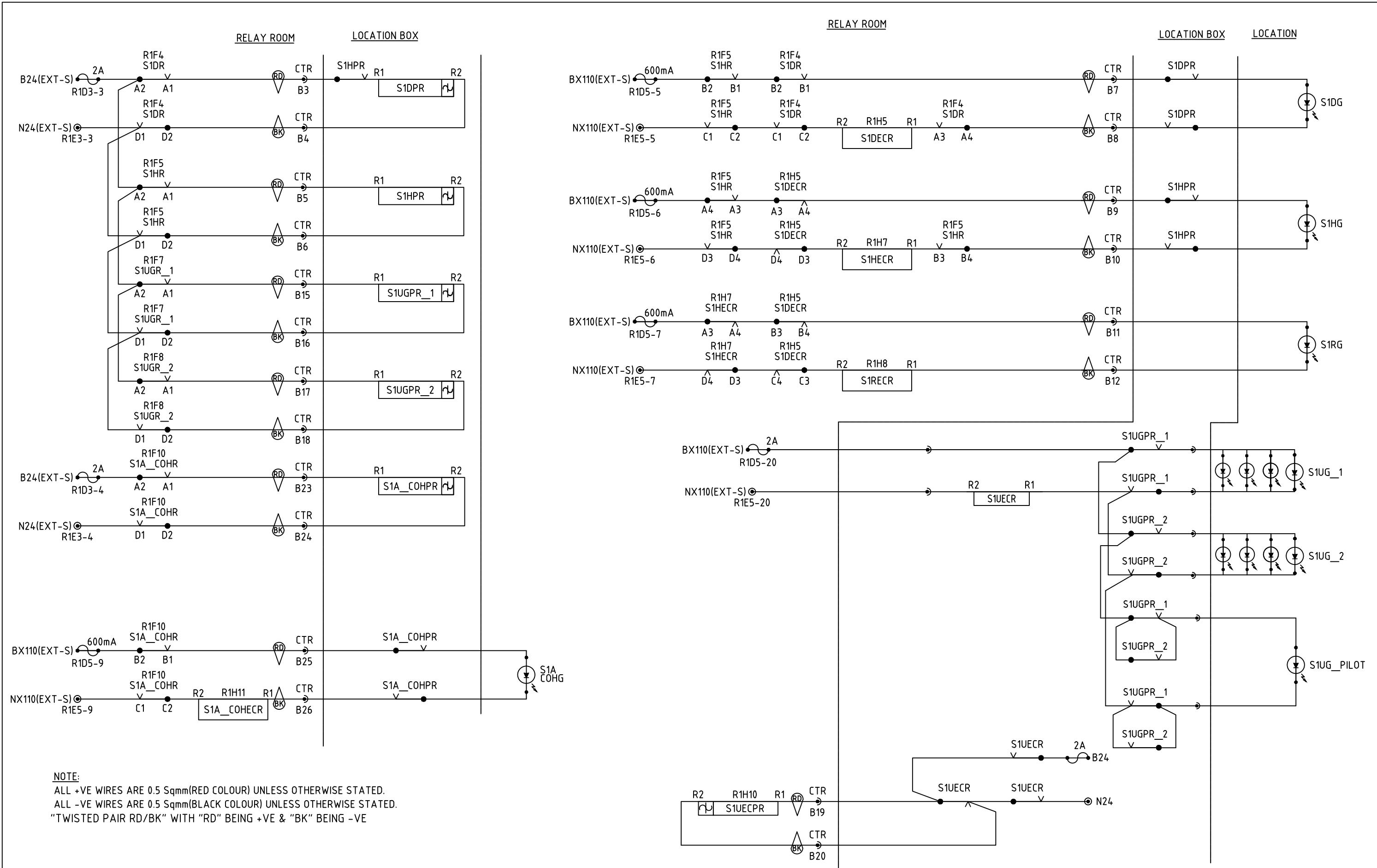
WIRES FOR MICROLOK II VITAL INPUT ARE OF SIZE 0.5sq.mm, "TWISTED PAIR BLUE/BLACK" WITH "BL" BEING +ve "BK" BEING -ve.

						 <p><b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b>  #610, "NARAYANA", 1st Floor, 15th Cross,  100 Feet Road, J.P.Nagar, 6th Phase,  Bengaluru - 560 078  Tel: +91 80 2654 0781,82,83  E-mail: info@sts.in</p>		IPU.2107B/3	REVISION	C.H.K.	TITLE: <b>MICROLOK II VITAL INPUT CIRCUITS</b> <b>M1A1/M1B1- SLOT 12</b>			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS			
								JE/Drg									
								SE/SSE/Drg									
								ASTE/D									
								SSTE/P & P									
								f CSTE									
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.No.	द म रेलवे आरेख सं	S.C.RLY.DRG.NO	बि B		SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL				
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3					शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00301	
								00220		00070							(MICROLOK II VITAL STAND)

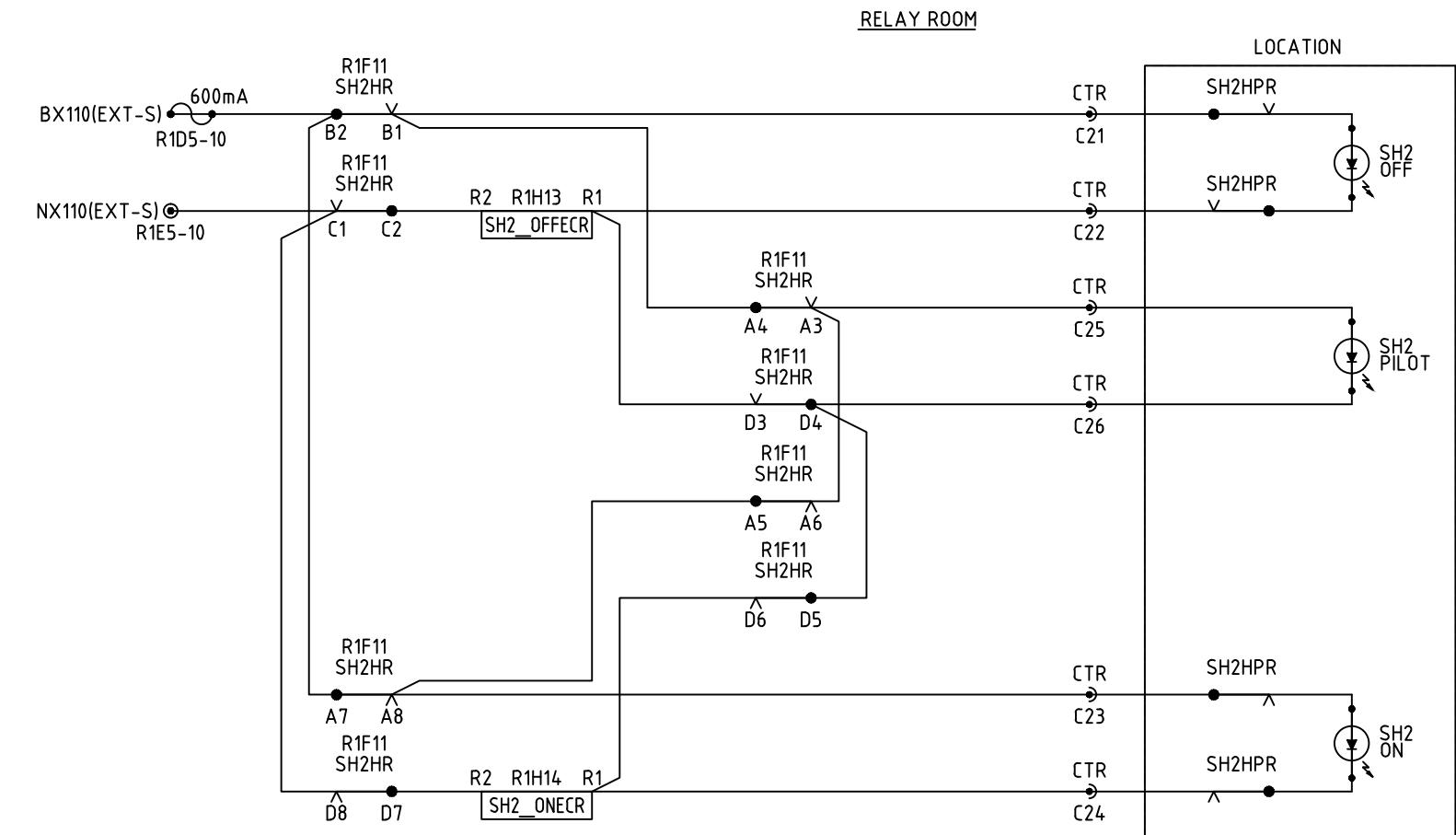
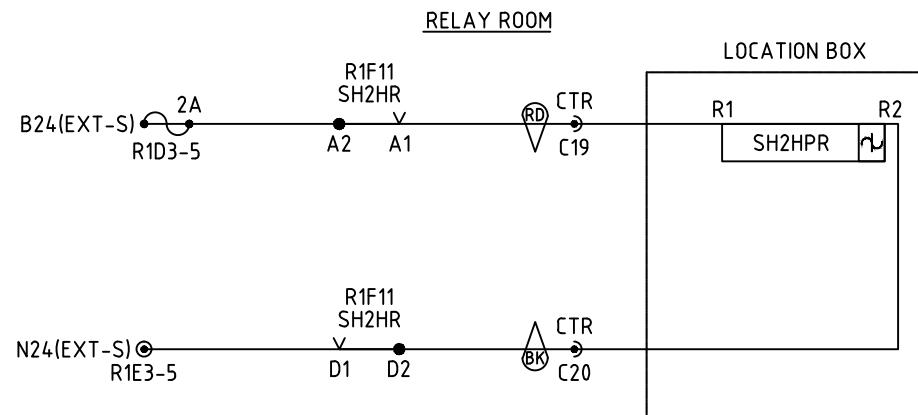


NOTE:  
 ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
 ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
 "TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>IPU.2107B/3</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>REVISION</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>CHK.</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>TITLE:</b> <b>SIGNAL LIGHTING CIRCUITS &amp;</b> <b>REPEATER CIRCUITS-S1D</b>	सिग्नल व दूर संचार	
					SIGNAL & TELECOMMUNICATIONS							
					तातिचेर्ला							
					TATICHERLA							
00	16.07.15	PR	RS	RSS	SOUTH CENTRAL RAILWAY							
REV	DATE	DESIGNED	CHECKED	APPROVED	DIVISION: GUNTAKAL							
MODIFICATION					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		f CSTE		APP.	शीट SHEET	कुल शीट SHEETS	CONT'D ON:
									00301	00070	00302	
(MICROLOK-II WARM STANDBY)												



					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S1		SIGNAL & TELECOMMUNICATIONS	
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in			JE/Drg		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B	
								SE/SSE/Drg		IPU.2107B/3	S.C.RLY.DRG.NO		
								ASTE/D					
								SSTE/P & P		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	
								f CSTE		00302	00070	00303	
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012							SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION								(MICROLOK-II WARM STANDBY)



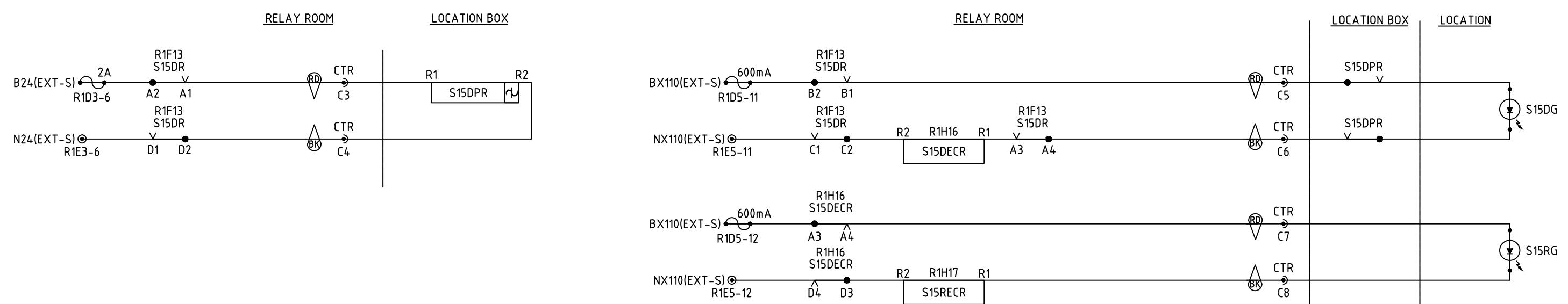
**NOTE:**

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	

CHK.	TITLE:	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-SH2			SIGNAL & TELECOMMUNICATIONS
		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B	
	IPU.2107B/3	REVISION			
		JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
		f CSTE	APP.	शीट SHEET	कुल शीट SHEETS
				CONT'D ON:	00304
				00303	00070

सिग्नल व दूर संचार  
SIGNAL & TELECOMMUNICATIONS  
तातिचेर्ला  
TATICHERLA  
SOUTH CENTRAL RAILWAY  
DIVISION: GUNTAKAL



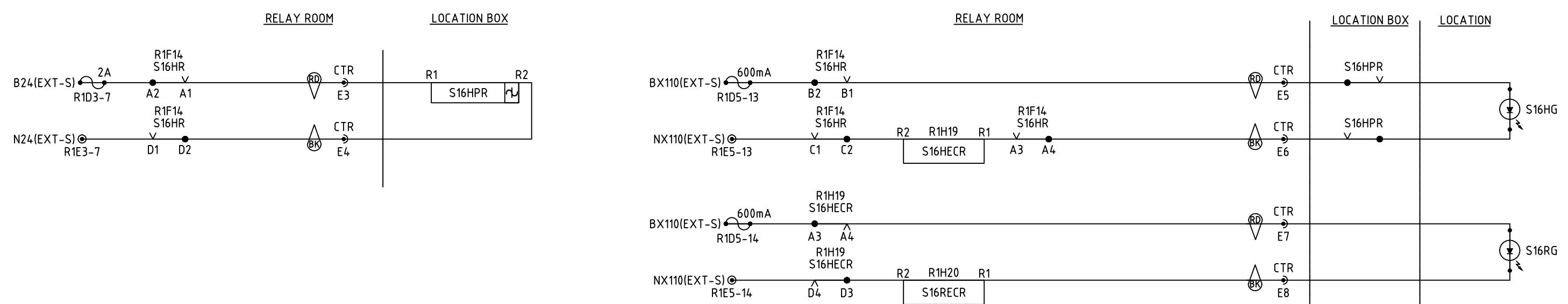
NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.

**ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.**

"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		IPU.2107B/3	REVISION	C.R. AP.	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S15			सिग्नल व दूर संचार <b>SIGNAL &amp; TELECOMMUNICATIONS</b>  ताटिचेर्ला <b>TATICHERLA</b>	
								JE/Drg							
								SE/SSE/Drg							
								ASTE/D							
								SSTE/P & P							
								f CSTE	REF.SIG.PLAN.NO.	द म रेलवे आरेय सं	बि B				
00	16.07.15	PR	RS	RSS	ASMADE			IPU.2107B/3	S.C.RLY.DRG.NO.						
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00305	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL		
								(MISROLOK II) ARM STANDBY							



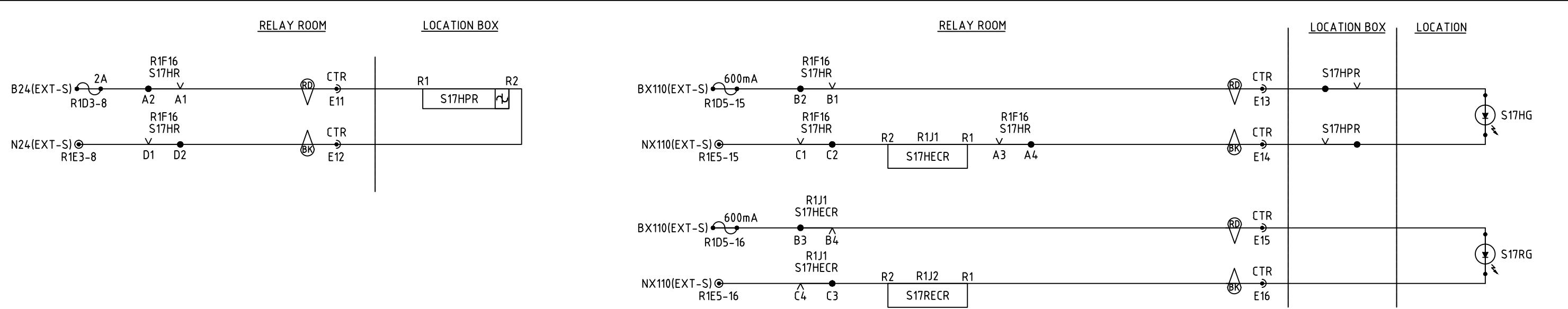
**NOTE:**

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.

**ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.**

"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> <b>#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078</b> <b>Tel: +91 80 2654 0781, 82, 83</b> <b>E-mail : info@tsts.in</b>		IPU.2107B/3	REVISION	C.R. AP.	TITLE: <b>SIGNAL LIGHTING CIRCUITS &amp; REPEATER CIRCUITS-S16</b>			सिग्नल व दूर संचार <b>SIGNAL &amp; TELECOMMUNICATIONS</b>					
								JE/Drg											
								SE/SSE/Drg											
								ASTE/D											
								SSTE/P & P											
								f CSTE	REF.SIG.PLAN.NO.	द म रेलवे आरेय सं	बि B		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00306			
00	16.07.15	PR	RS	RSS	ASMADE			IPU.2107B/3	SC.RLY.DRG.NO.				00305	00070				TATICHERLA	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012									SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL		

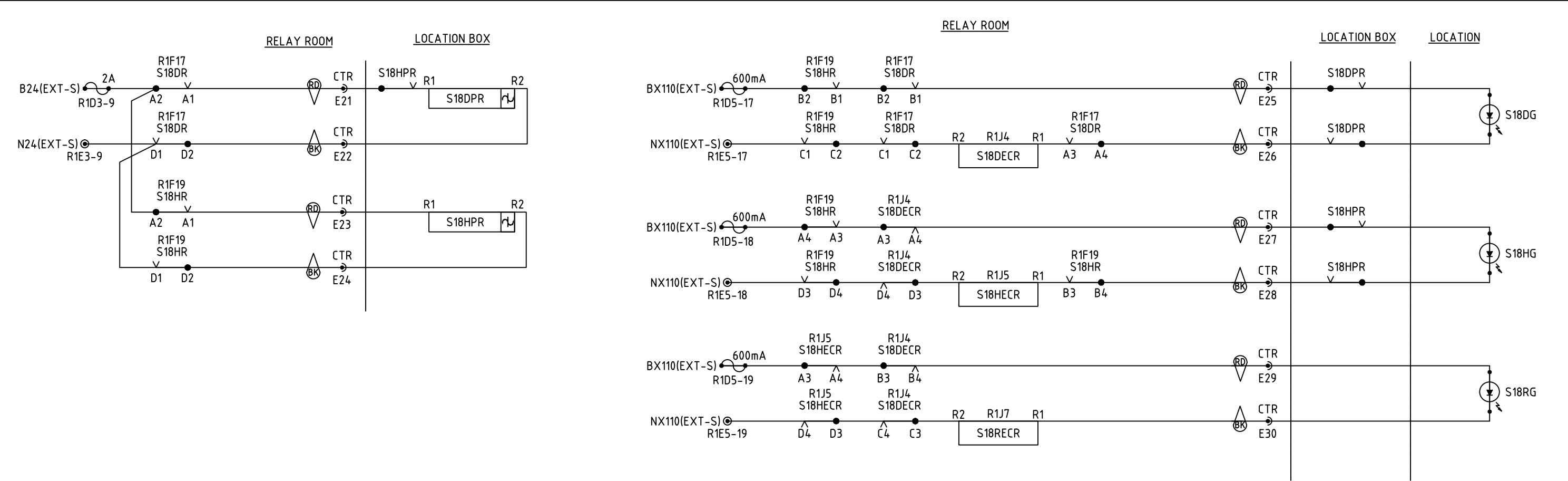


NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
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"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						TVM Signalling & Transportation Systems Pvt. Ltd.
						#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

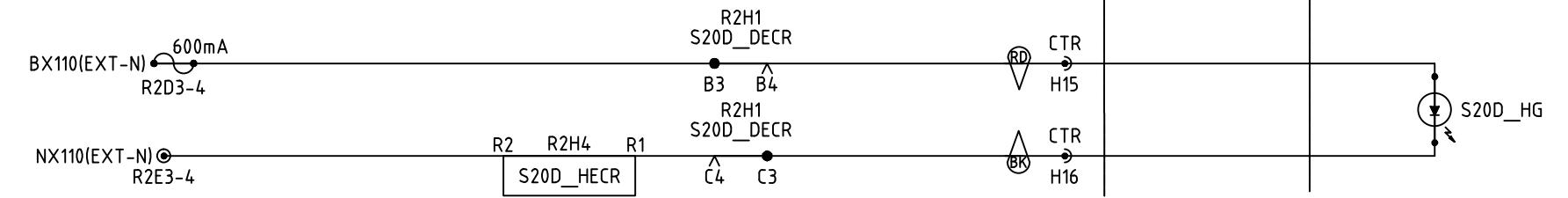
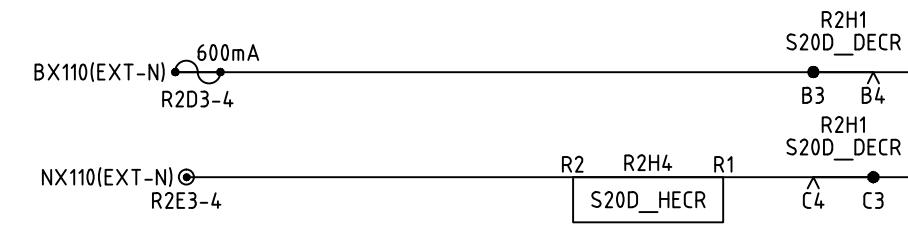
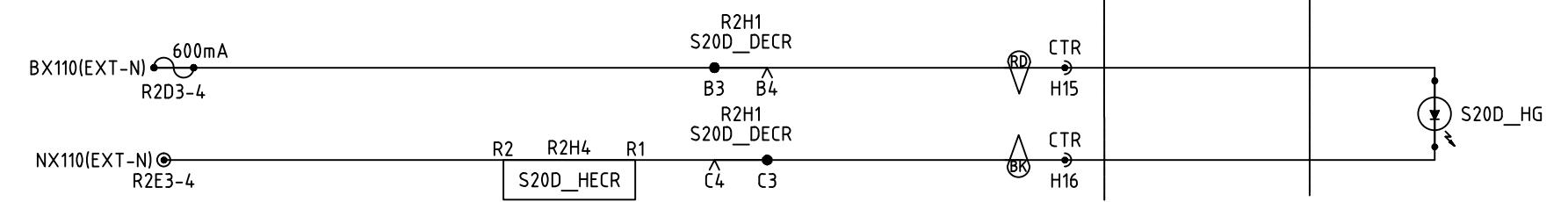
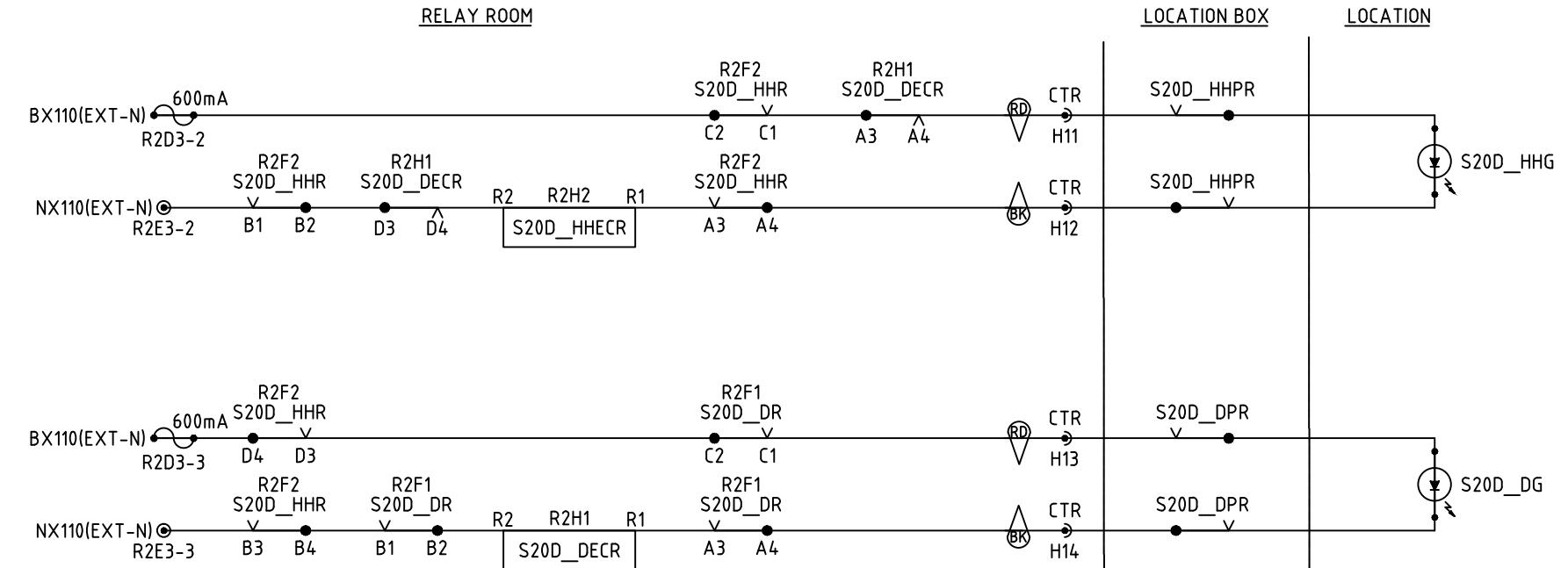
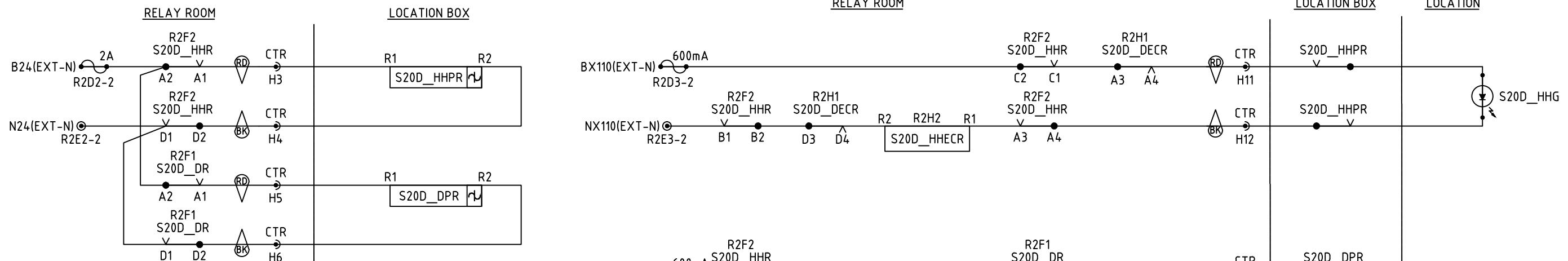
CHK.	TITLE:	SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S17			SIGNAL & TELECOMMUNICATIONS
		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	S.C.RLY.DRG.NO	
	IPU.2107B/3	JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
		f CSTE	APP.	शीट SHEET	कुल शीट SHEETS
				CONT'D ON:	00307
				00306	00070



NOTE:

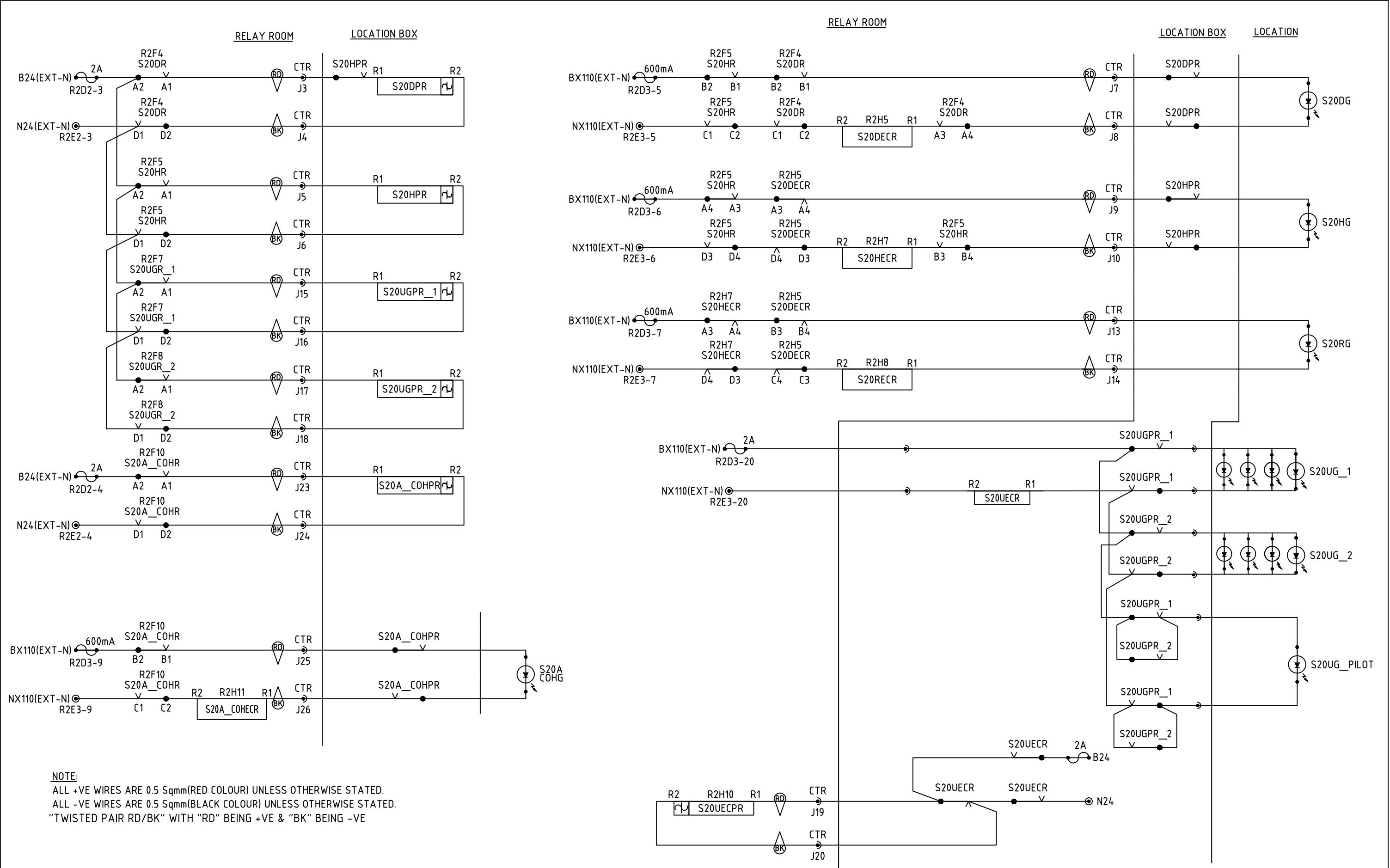
ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3      	REVISION	<b>CHK.</b>     	<b>TITLE:</b> SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S18	<b>SIGNAL &amp; TELECOMMUNICATIONS</b>  <b>ताटिचेर्ला</b> <b>TATICHERLA</b>
						JE/Drg				
						SE/SSE/Drg				
						ASTE/D				
						SSTE/P & P				
						f CSTE				
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
REV	DATE	DESIGNED	CHECKED	APPROVED			IPU.2107B/3	S.C.RLY.DRG.NO		
					MODIFICATION		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00308
							00307	00070		

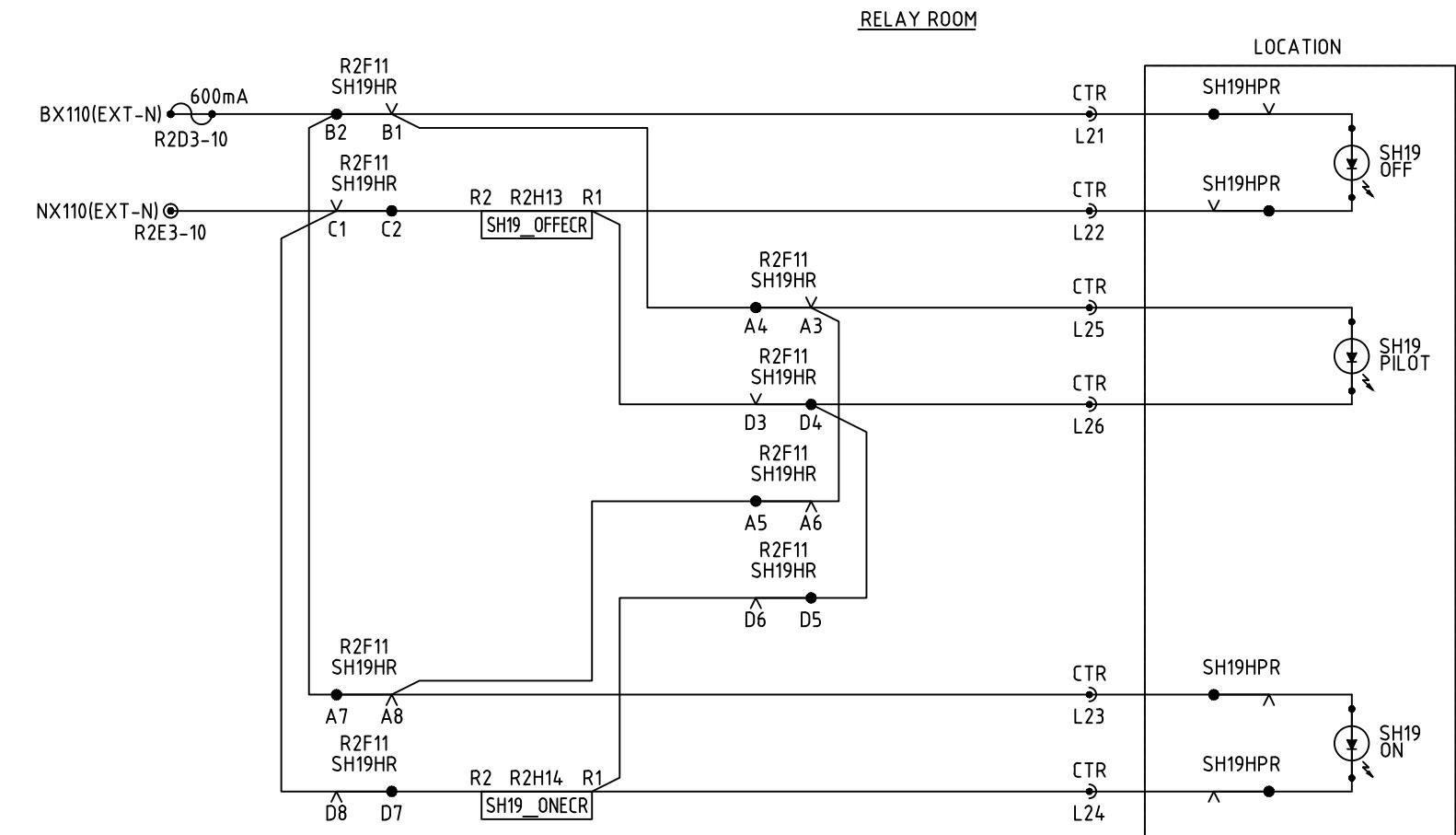
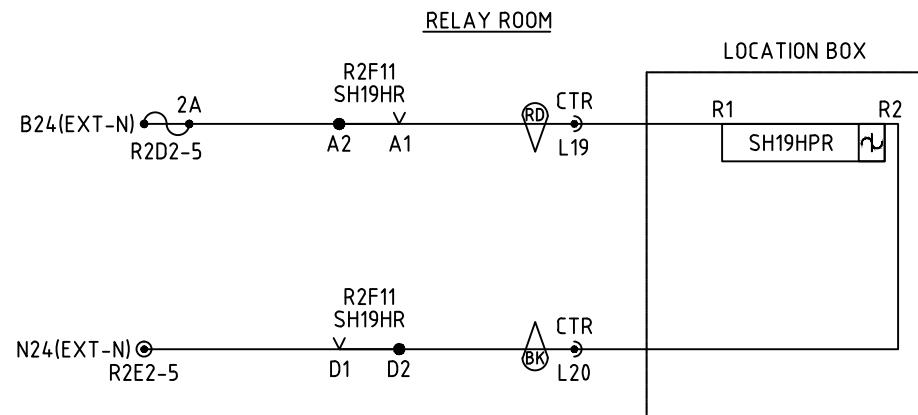


NOTE:  
ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
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"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	<b>CHK.</b> TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S20D REF.SIG.PLAN.No. <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> वि B IPU.2107B/3 <input type="text"/> S.C.RLY.DRG.NO <input type="text"/> शीट SHEET <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00309 00308 <input type="text"/> 00070	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS तातिचेर्ला TATICHERLA SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
00	16.07.15	PR	RS	RSS	ASMADE				
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				



					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S20		SIGNAL & TELECOMMUNICATIONS
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in			JE/Drg		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B
								SE/SSE/Drg		IPU.2107B/3	S.C.RLY.DRG.NO	
								ASTE/D				
								SSTE/P & P		शीट SHEET	कुल शीट SHEETS	CONT'D ON:
								f CSTE		00309	00070	00310
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012						
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION							

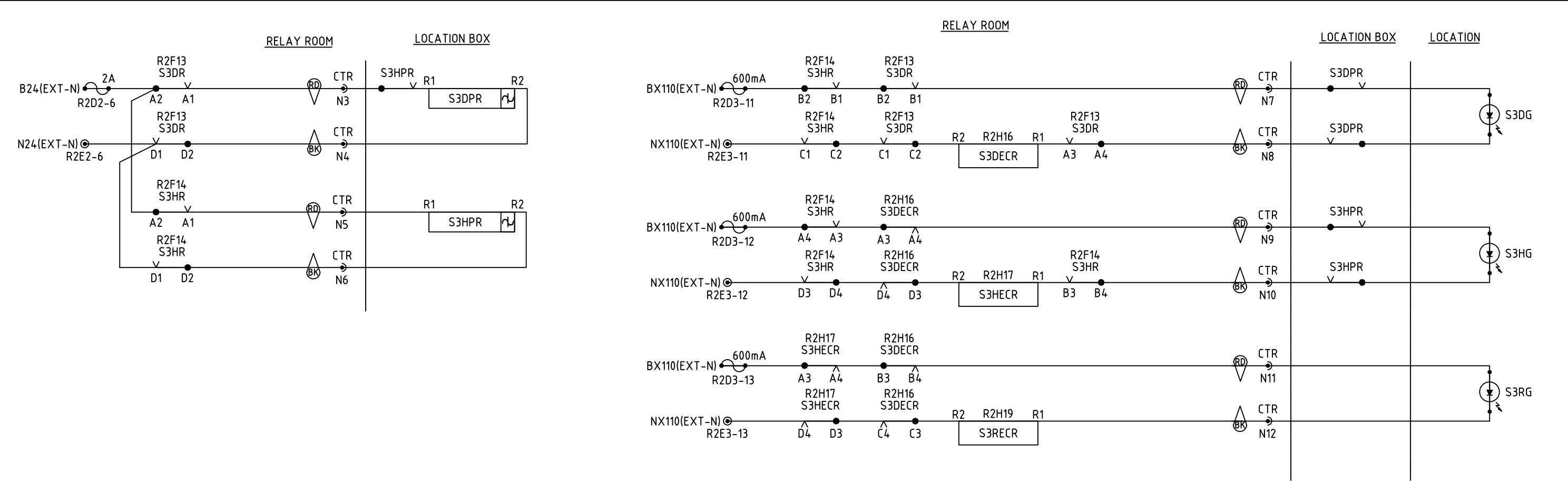


NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

						TVM Signalling & Transportation Systems Pvt. Ltd.  #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	

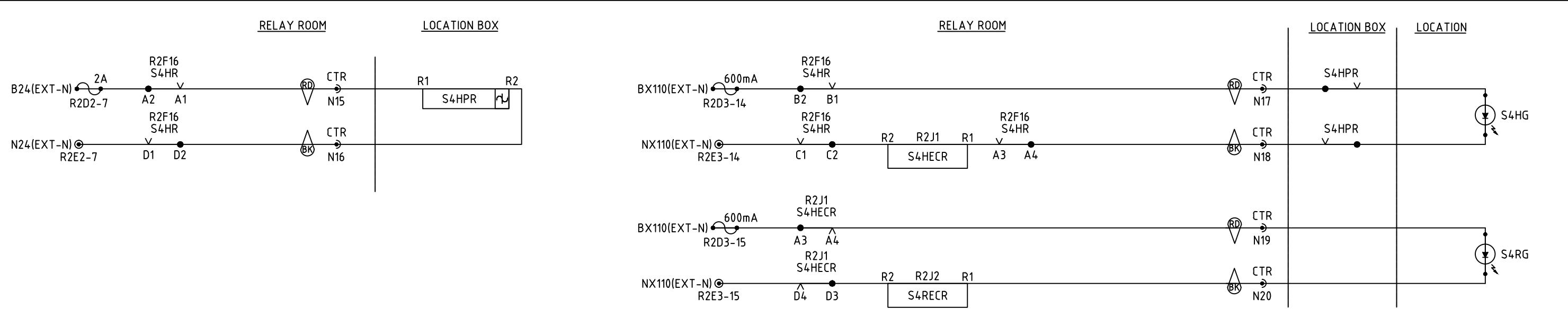
CHK.	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-SH19			SIGNAL & TELECOMMUNICATIONS ताटिचेर्ला TATICHERLA
	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B	
	IPU.2107B/3	S.C.RLY.DRG.NO		
	JE/Drg			
	SE/SSE/Drg			
	ASTE/D			
	SSTE/P & P			
	f CSTE	APP.		
	00310	00070	CONT'D ON:	00311



**NOTE:**

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

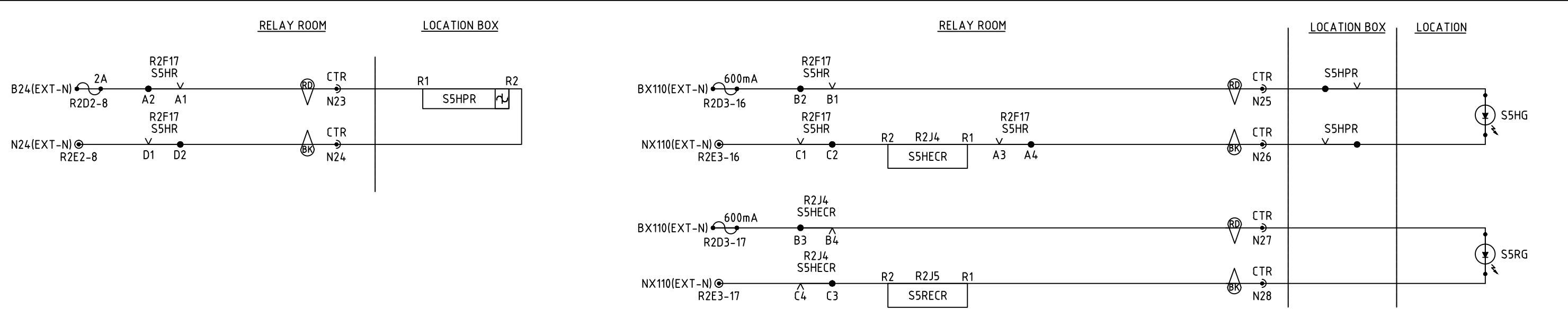
					TVM Signalling & Transportation Systems Pvt. Ltd.	IPU.2107B/3	REVISION	CHK.	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S3		SIGNAL & TELECOMMUNICATIONS	
				R. Bas	#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		JE/Drg		REF.SIG.PLAN.No. द म रेलवे आरक्ष सं		वि B	सिग्नल व दूर संचार
00	16.07.15	PR	RS	RSS	ASMADE		SE/SSE/Drg		IPU.2107B/3 S.C.RLY.DRG.NO		SIGNAL & TELECOMMUNICATIONS	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		ASTE/D		शीट SHEET कुल शीट SHEETS		ताटिचेर्ला	
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		SSTE/P & P		CONT'D ON:	00312	TATICHERLA	
							f CSTE	APP.	00311	00070	SOUTH CENTRAL RAILWAY	
											DIVISION: GUNTAKAL	



NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

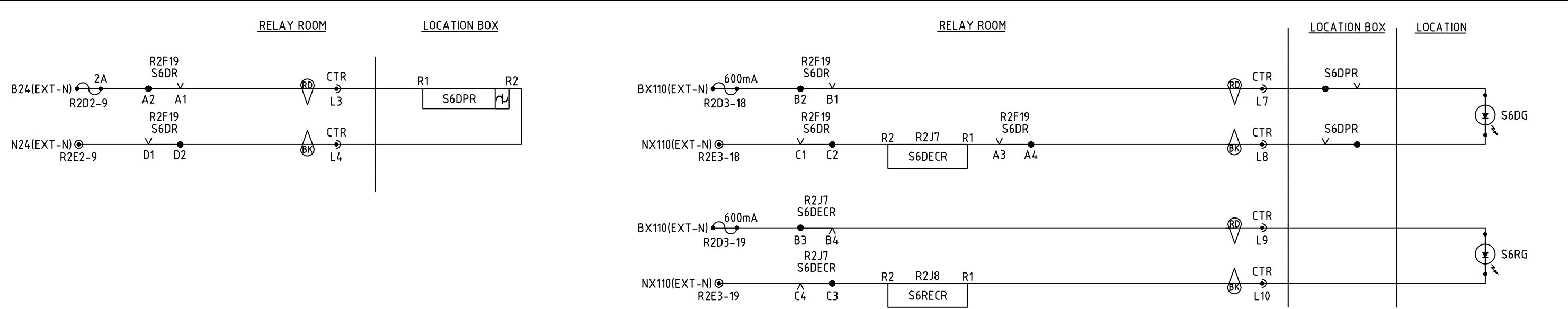
						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3      	IPU.2107B/3	REVISION	<b>CHK.</b>	TITLE: SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S4			<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b>  <b>तातिचेर्ला</b> <b>TATICHERLA</b>  <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>
					JE/Drg									
					SE/SSE/Drg									
					ASTE/D									
					SSTE/P & P									
00	16.07.15	PR	RS	RSS	f CSTE		APP.	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00313			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	00312	00070					(MICROLOK-II WARM STANDBY)	



NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

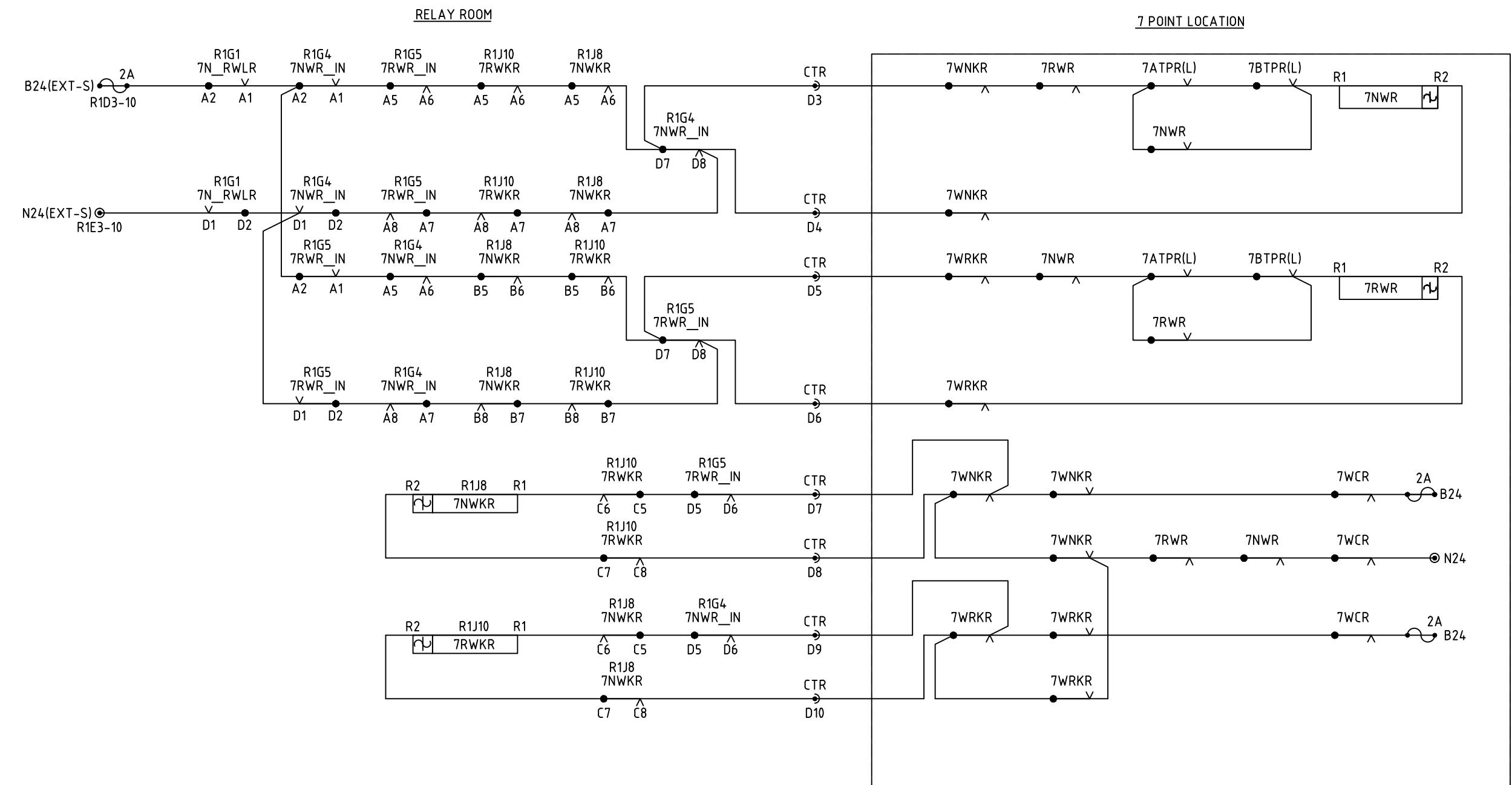
						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>I.PU.2107B/3</b> <b>REVISION</b> <hr/> <b>JE/Drg</b> <hr/> <b>SE/SSE/Drg</b> <hr/> <b>ASTE/D</b> <hr/> <b>SSTE/P &amp; P</b> <hr/> <b>f CSTE</b>	<b>CHK.</b> <b>TITLE:</b> <b>SIGNAL LIGHTING CIRCUITS &amp; REPEATER CIRCUITS-S5</b> <hr/> <b>REF.SIG.PLAN.No.</b> द म रेलवे आरक्ष सं <b>बि B</b> <b>IPU.2107B/3</b> <b>S.C.RLY.DRG.NO</b> <hr/> <b>शीट SHEET</b> <b>कुल शीट SHEETS</b> <b>CONT'D ON:</b> <b>00314</b> <b>00313</b> <b>00070</b>	<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b> <hr/> <b>तातिचेर्ला</b> <b>TATICHERLA</b> <hr/> <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>
00	16.07.15	PR	RS	RSS	ASMADE				
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				



NOTE:

ALL +VE WIRES ARE 0.5 Sqmm (RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm (BLACK COLOUR) UNLESS OTHERWISE STATED.  
"TWISTED PAIR RD/BK" WITH "RD" BEING +VE & "BK" BEING -VE

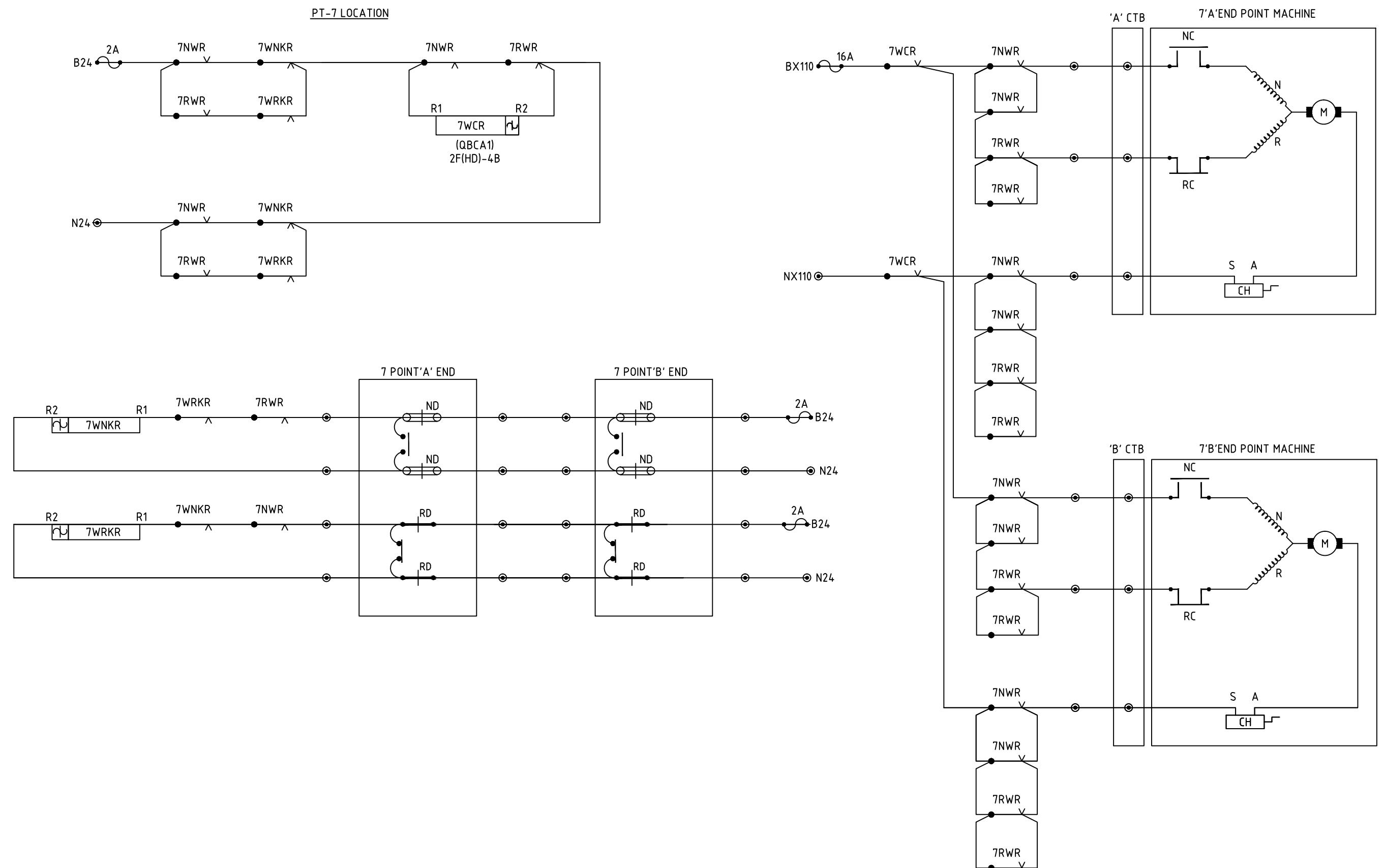
						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>CHK.</b>	<b>TITLE:</b> SIGNAL LIGHTING CIRCUITS & REPEATER CIRCUITS-S6	SIGNAL & TELECOMMUNICATIONS	
00	16.07.15	PR	RS	RSS	ASMADE					
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION					
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012					



**NOTE:**

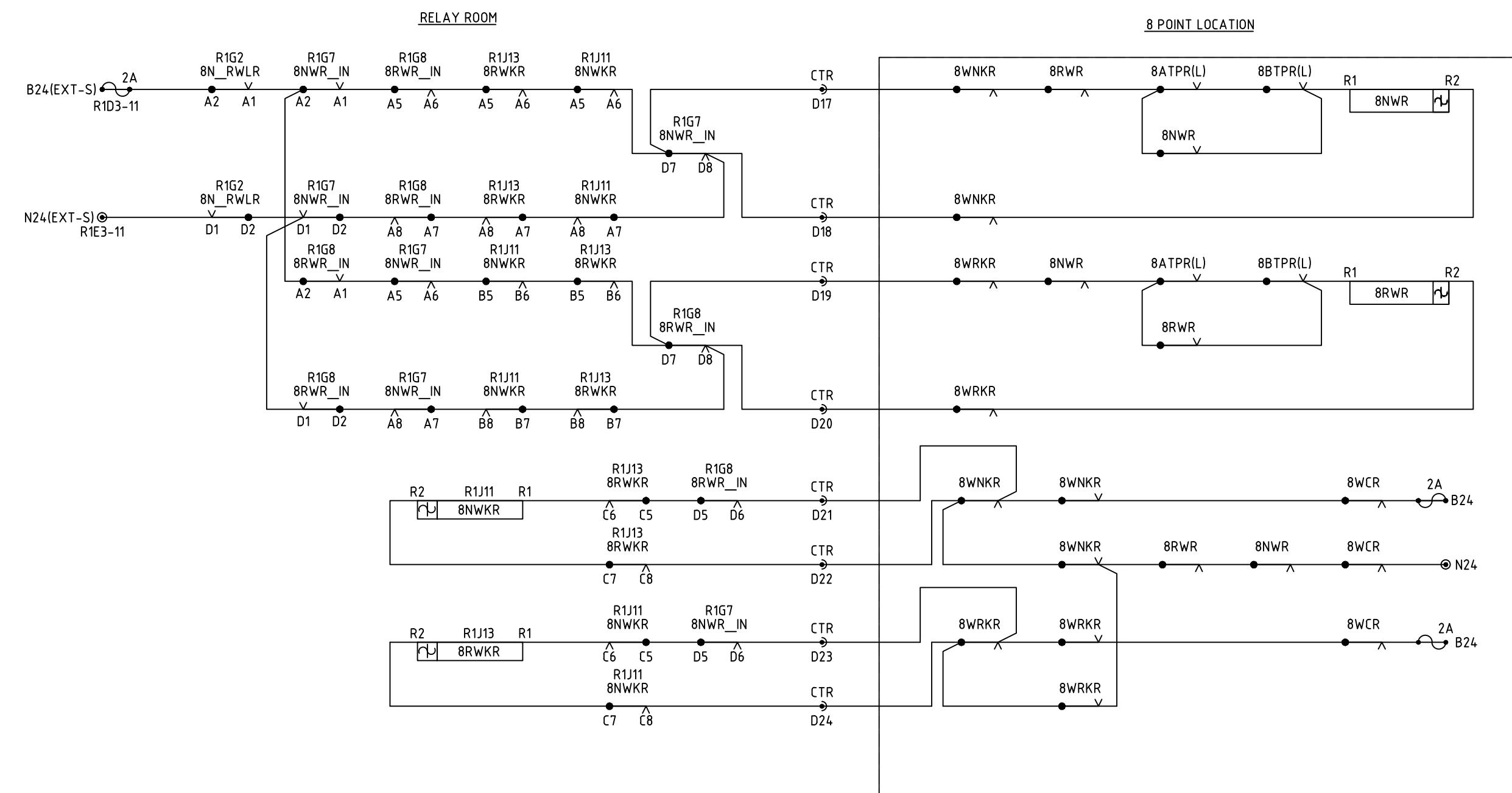
B24 WIRES IN RELAY ROOM ARE 16/0.20 mm RED COLOUR.  
N24 WIRES IN RELAY ROOM ARE 16/0.20 mm BLACK COLOUR.

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>CHK.</b>	<b>TITLE:</b> POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-7	SIGNAL & TELECOMMUNICATIONS	
								REF.SIG.PLAN.No.	द म रेलवे आरेख सं
								IPU.2107B/3	S.C.RLY.DRG.NO
								JE/Drg	बि B
								SE/SSE/Drg	
								ASTE/D	
00	16.07.15	PR	RS	RSS				SSTE/P & P	
REV	DATE	DESIGNED	CHECKED	APPROVED				f CSTE	APP.
								शीट SHEET	कुल शीट SHEETS
								CONT'D ON:	00402
								00401	00070
								SOUTH CENTRAL RAILWAY	
								DIVISION: GUNTAKAL	
								(MICROLOK-II WARM STANDBY)	



					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

CHK.	TITLE:	POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-7		SIGNAL & TELECOMMUNICATIONS
		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं S.C.RLY.DRG.NO	
	IPU.2107B/3	REVISION		
		JE/Drg		
		SE/SSE/Drg		
		ASTE/D		
		SSTE/P & P		
		f CSTE	शीट SHEET	कुल शीट SHEETS
			00402	00070
			APP.	CONT'D ON:
			00403	

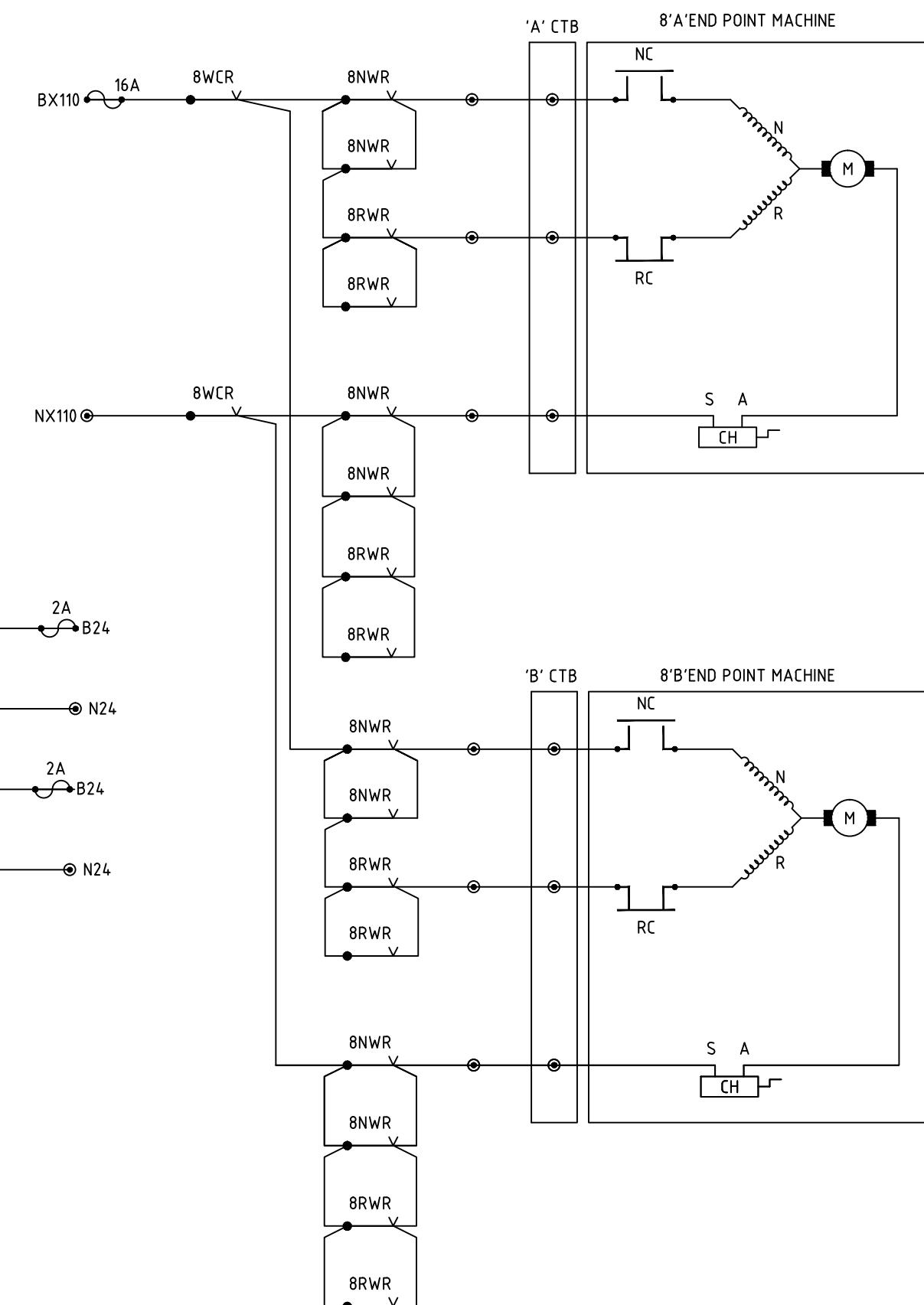
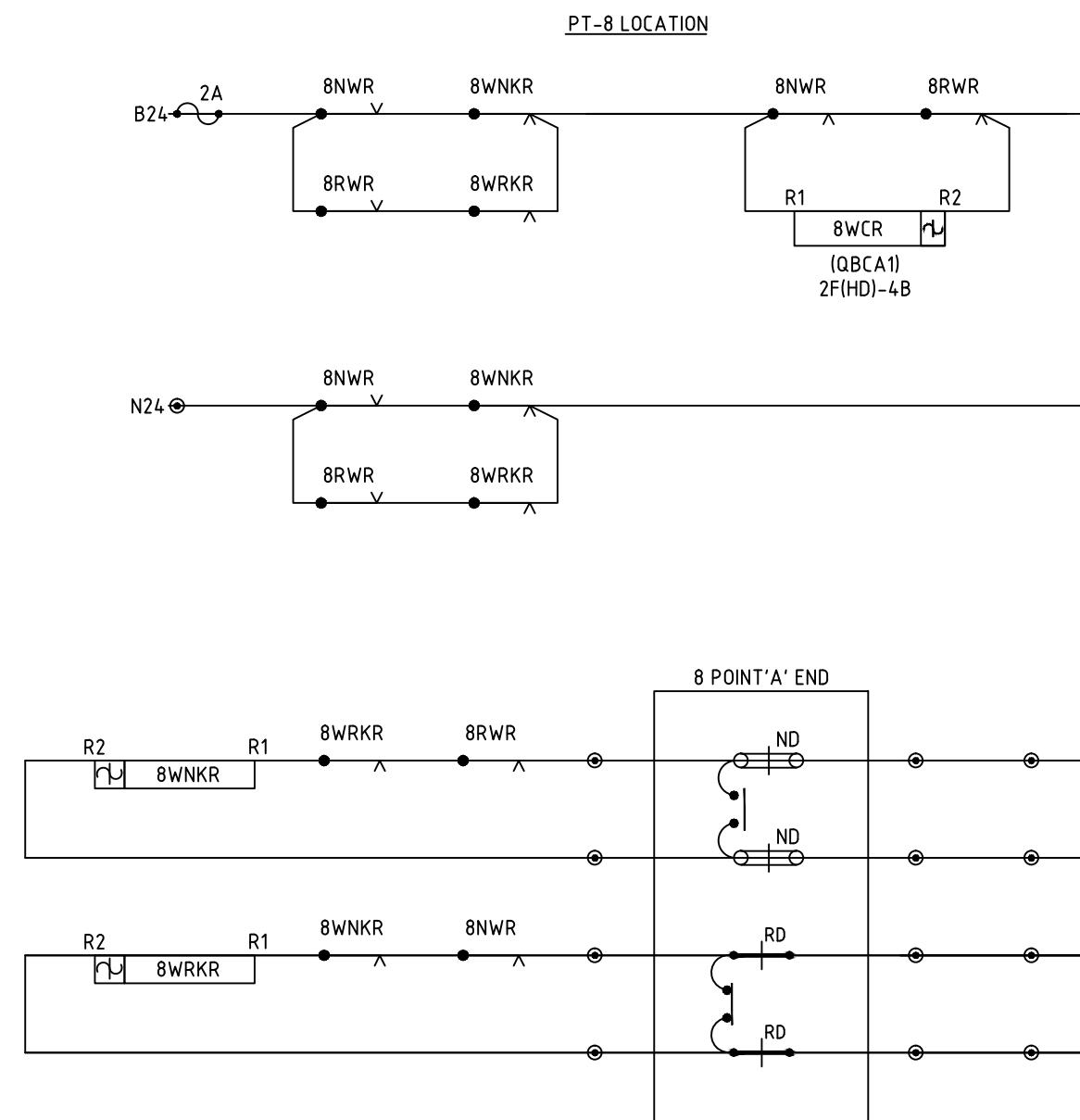


**NOTE:**

B24 WIRES IN RELAY ROOM ARE 16/0.20 mm RED COLOUR.  
N24 WIRES IN RELAY ROOM ARE 16/0.20 mm BLACK COLOUR.

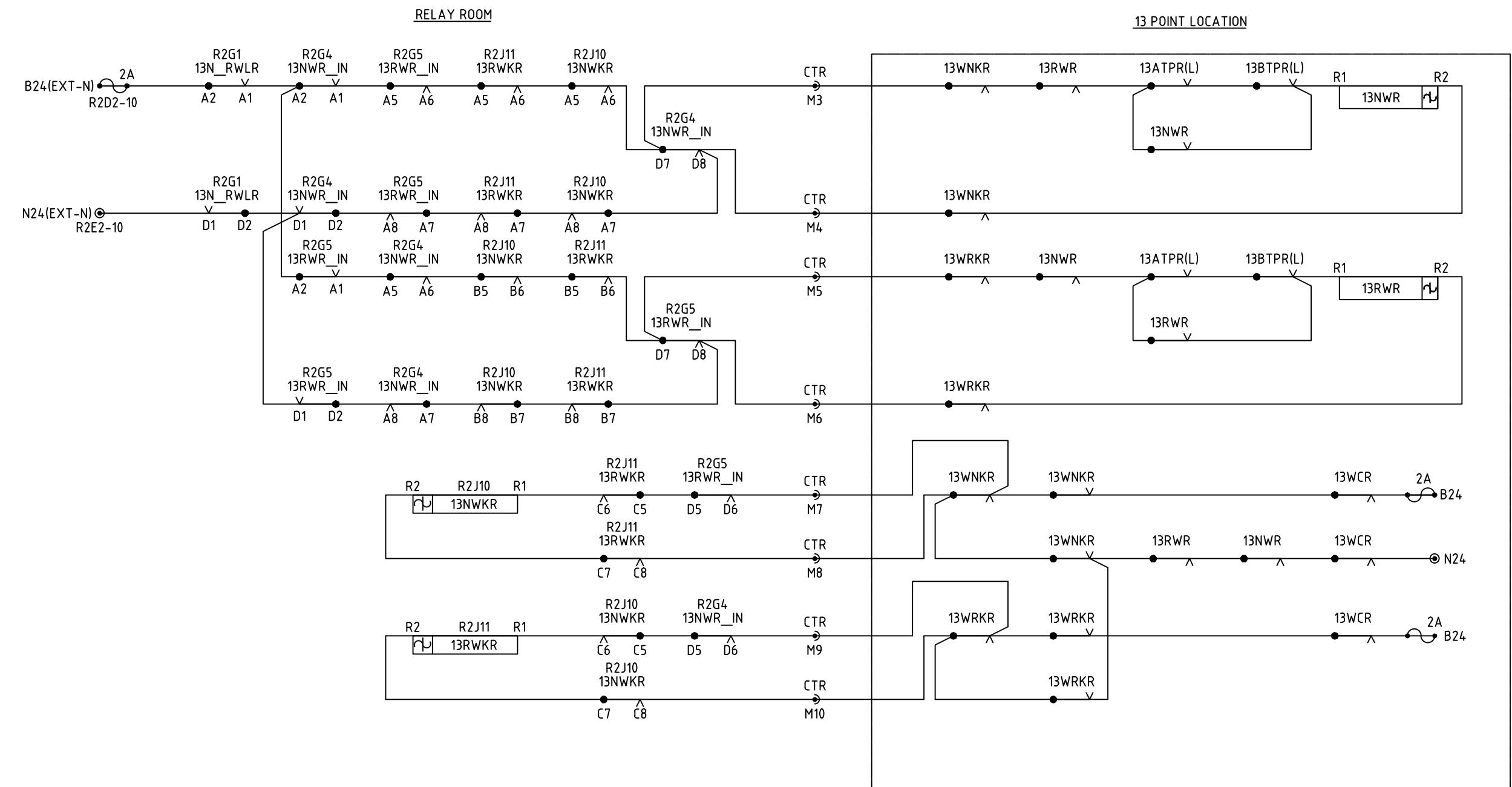
					TVM Signalling & Transportation Systems Pvt. Ltd.
				R. Basu	#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

CHK.	IPU.2107B/3	REVISION	TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-8	SIGNAL & TELECOMMUNICATIONS	
		JE/Drg		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं
		SE/SSE/Drg		IPU.2107B/3	S.C.RLY.DRG.NO बि B
		ASTE/D		शीट SHEET	कुल शीट SHEETS
		SSTE/P & P		CONT'D ON:	00404
		f CSTE		APP.	00403 00070



					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012
					MODIFICATION

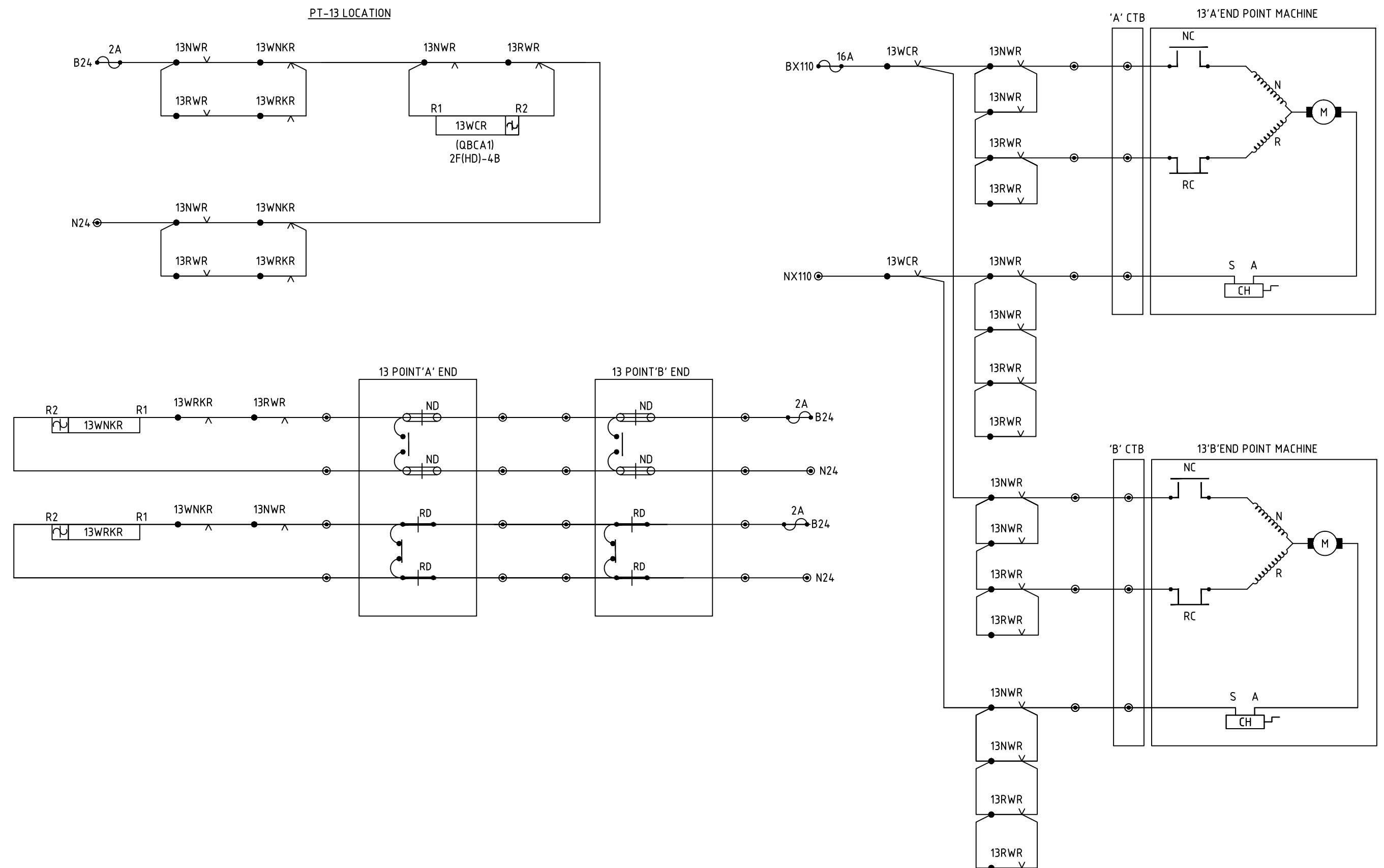
CHK.	TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-8				SIGNAL & TELECOMMUNICATIONS ताटिचेर्ला TATICHERLA
	REF.SIG.PLAN.No.	IPU.2107B/3	REVISION	S.C.RLY.DRG.NO	
	IPU.2107B/3	JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
		f CSTE	APP.	शीट SHEET 00404	कुल शीट SHEETS 00070
				CONT'D ON:	00405



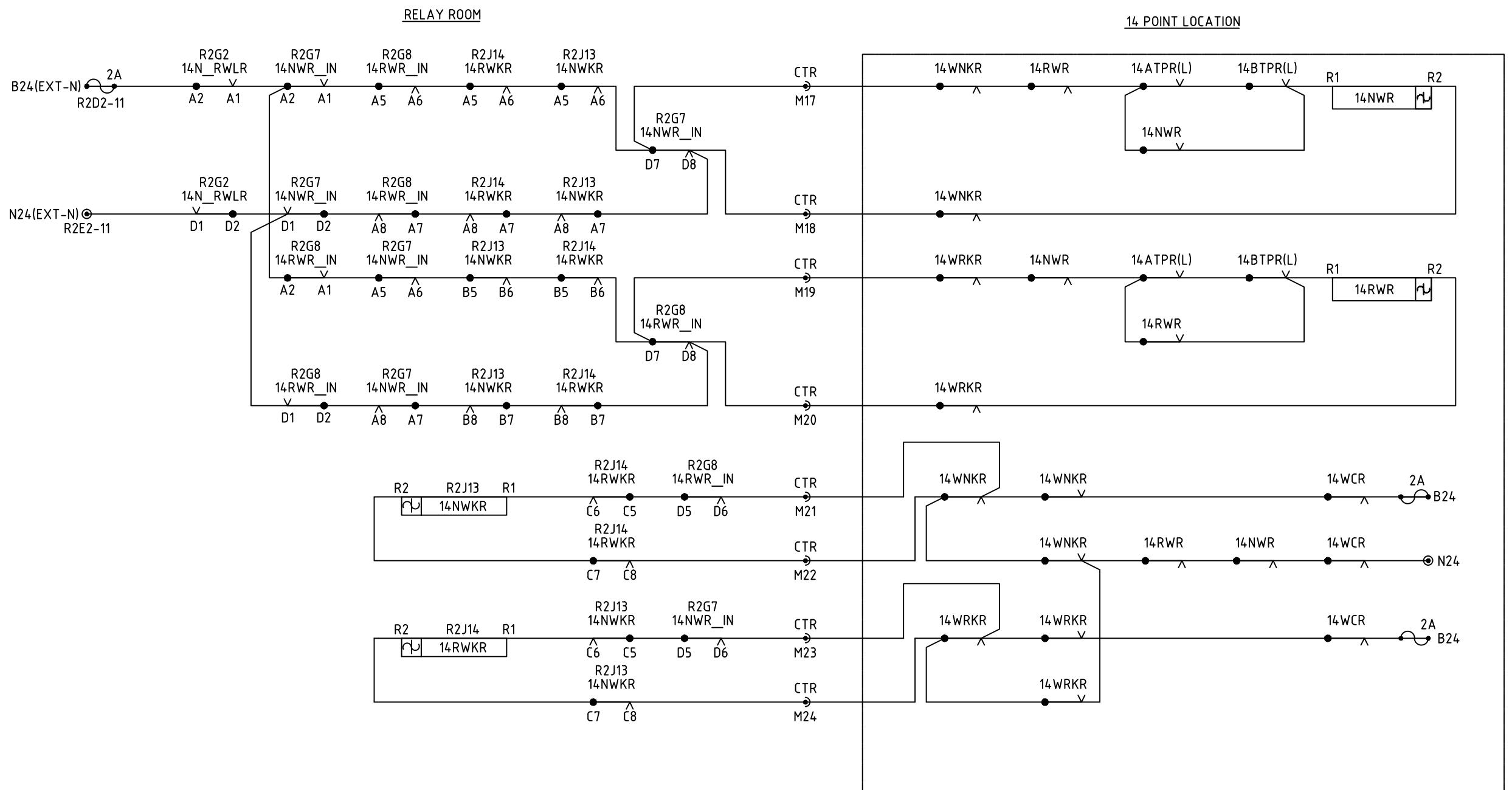
**NOTE:**

B24 WIRES IN RELAY ROOM ARE 16/0.20 mm RED COLOUR.  
N24 WIRES IN RELAY ROOM ARE 16/0.20 mm BLACK COLOUR.

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-13	SIGNAL & TELECOMMUNICATIONS	
00	16.07.15	PR	RS	RSS					
				ASMADE					
REV	DATE	DESIGNED	CHECKED	APPROVED					
				MODIFICATION					
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012					



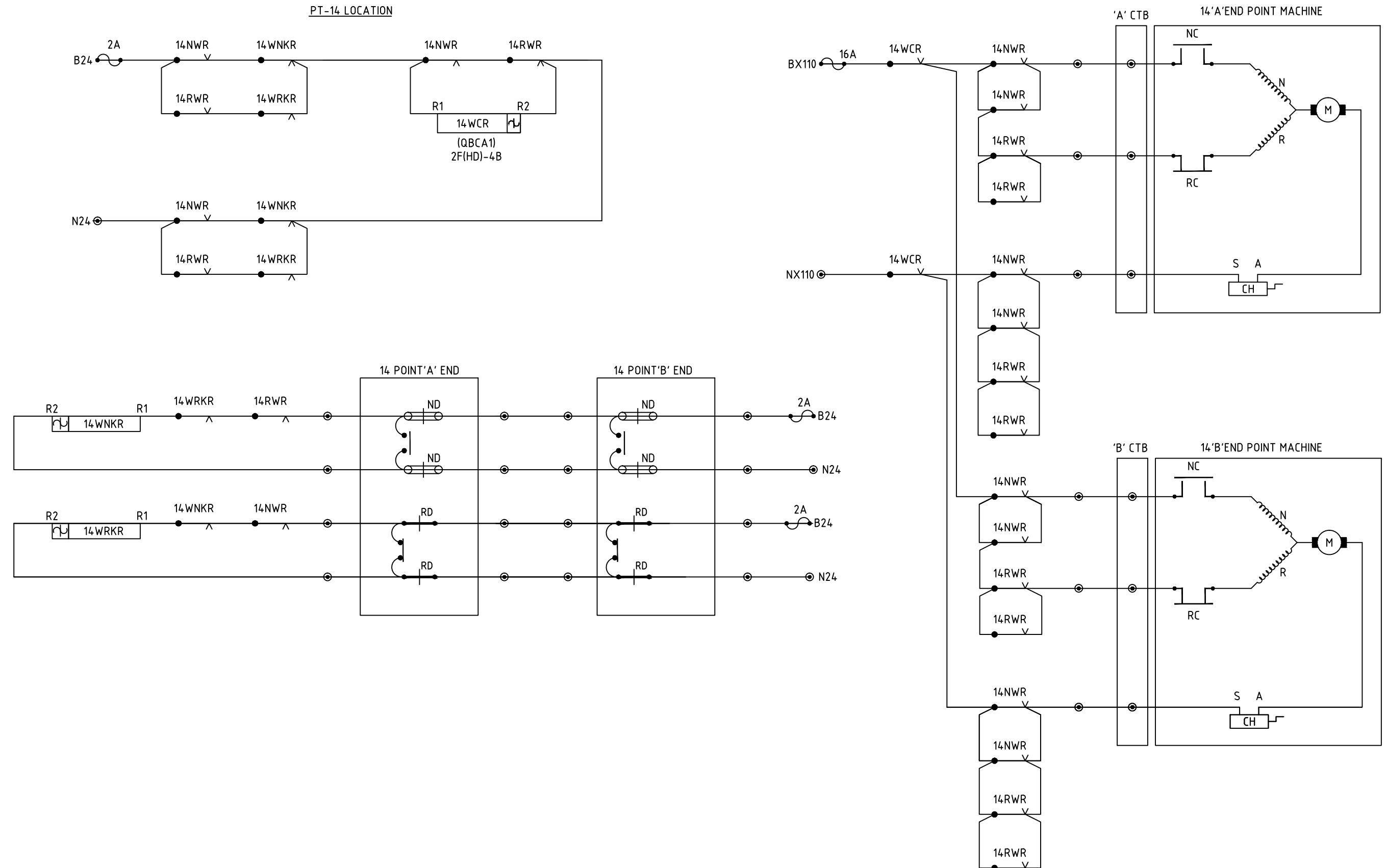
					TVM Signalling & Transportation Systems Pvt. Ltd.		IPU.2107B/3	REVISION	CHK.	TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-13			सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		JE/Drg	REF.SIG.PLAN.No. द म रेलवे आरक्ष सं IPU.2107B/3 S.C.RLY.DRG.NO वि B					
00	16.07.15	PR	RS	RSS	ASMADE		SE/SSE/Drg	SHEET कुल SHEET SHEETS CONT'D ON: 00406 00070 00407					
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		ASTE/D	FILE: 512_TAC_IC_00406_R00.DWG					
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		SSTE/P & P	CAD FILE: 512_TAC_IC_00406_R00.DWG					
							f CSTE	APP.		(MICROLOK-II WARM STANDBY)			



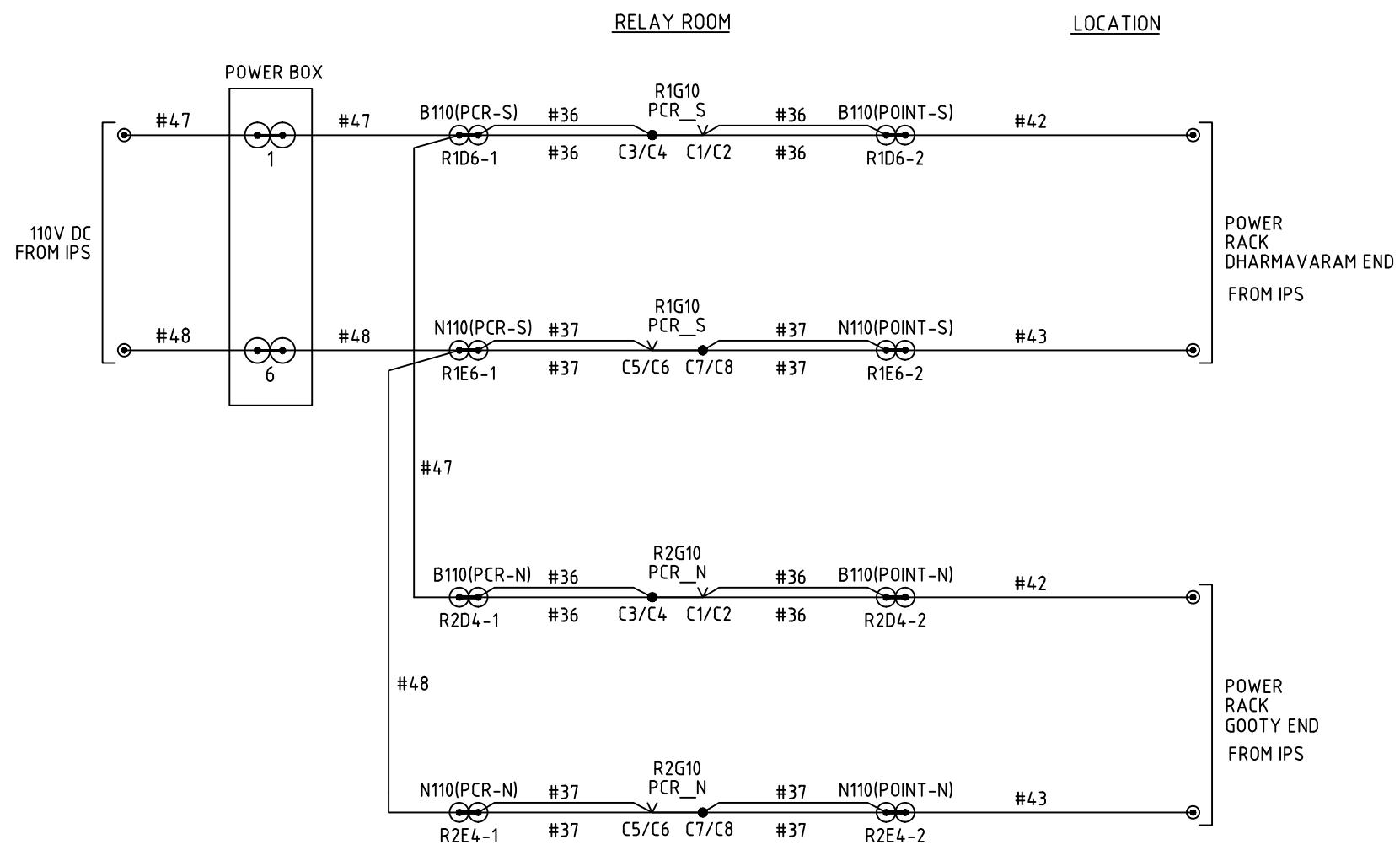
**NOTE:**

B24 WIRES IN RELAY ROOM ARE 16/0.20 mm RED COLOUR.  
N24 WIRES IN RELAY ROOM ARE 16/0.20 mm BLACK COLOUR.

					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	<b>CHK.</b> TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-14 REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO द. म. रेलवे आरेख सं. वि. B SHEET NO. 00407 TOTAL SHEETS 00070 CONT'D ON: 00408	<b>SIGNAL &amp; TELECOMMUNICATIONS</b> <b>ताटिचेर्ला</b> <b>TATICHERLA</b> <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>			
00	16.07.15	PR	RS	RSS							
REV	DATE	DESIGNED	CHECKED	APPROVED							
ASMADE					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012						
MODIFICATION											



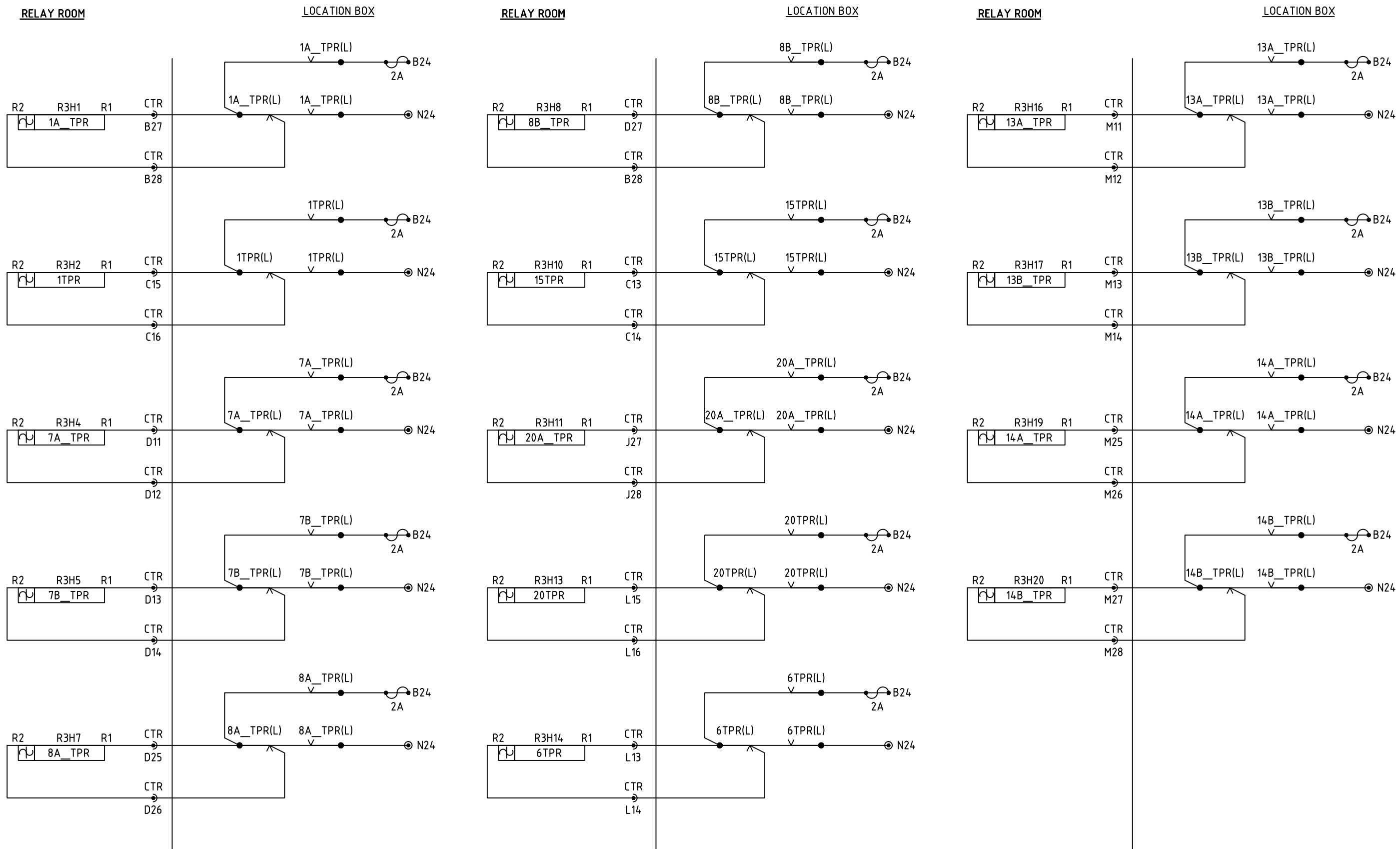
						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		IPU.2107B/3	REVISION	CHK.	TITLE: POINT REPEATER & DETECTION INPUT RELAY CIRCUITS-14			SIGNAL & TELECOMMUNICATIONS  ताटिचेर्ला TATICHERLA			SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL	
								JE/Drg										
								SE/SSE/Drg										
								ASTE/D										
								SSTE/P & P										
								f CSTE										
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेख सं	S.C.RLY.DRG.NO.	बि B							
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3										
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								00408	00070									



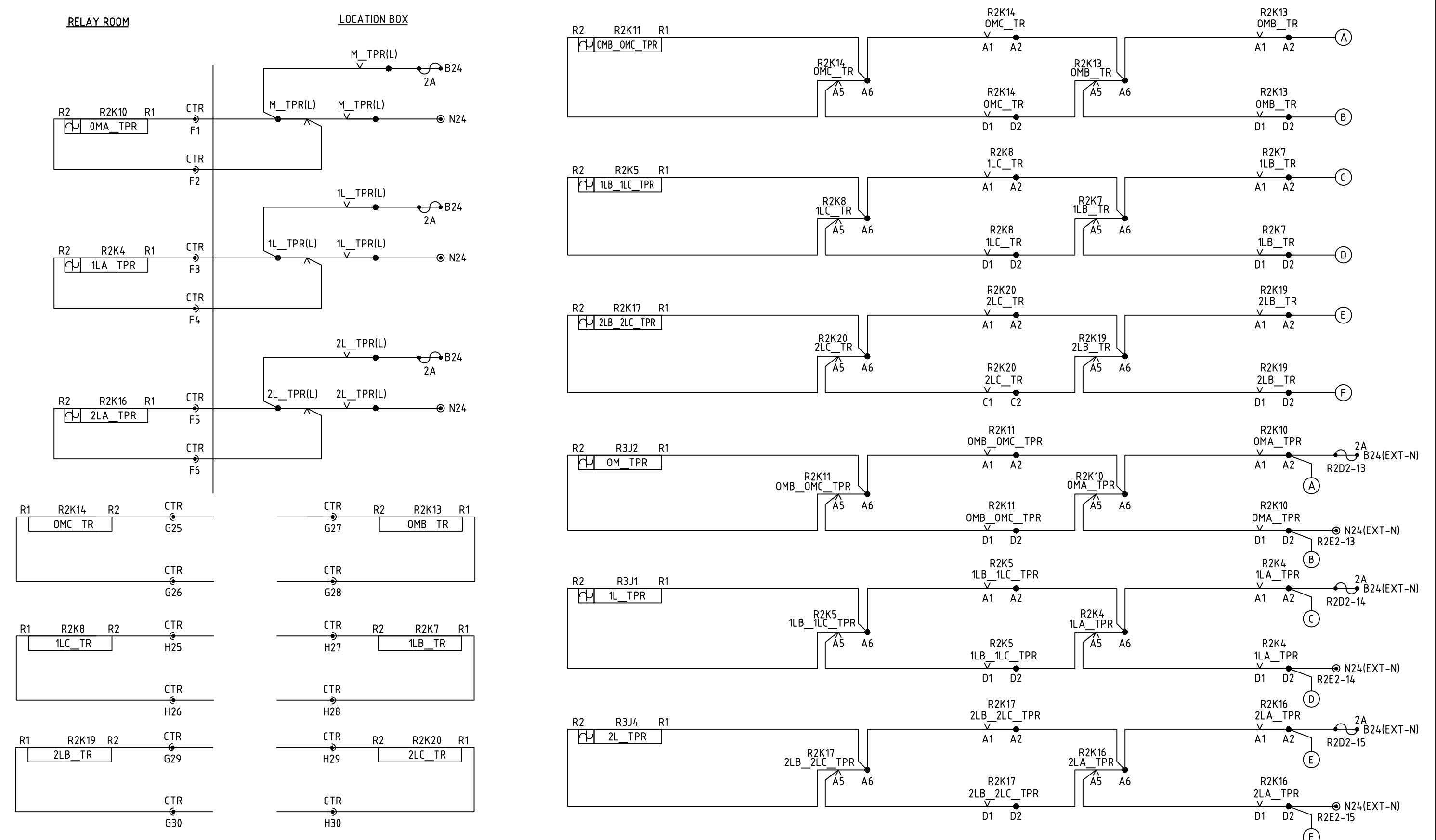
NOTE:

1. ALL WIRES 16/0.2mm (0.5Sq.mm) WIRE (BLACK COLOUR) UNLESS OTHERWISE STATED.
2. #36 30/0.25mm (1.5Sq.mm) WIRE (RED COLOUR).
3. #37 30/0.25mm (1.5Sq.mm) WIRE (BLACK COLOUR).
4. #42 7/1.4mm (10Sq.mm) WIRE (RED COLOUR).
5. #43 7/1.4mm (10Sq.mm) WIRE (BLACK COLOUR).
6. #47 16Sq.mm WIRE (RED COLOUR).
7. #48 16Sq.mm WIRE (BLACK COLOUR).

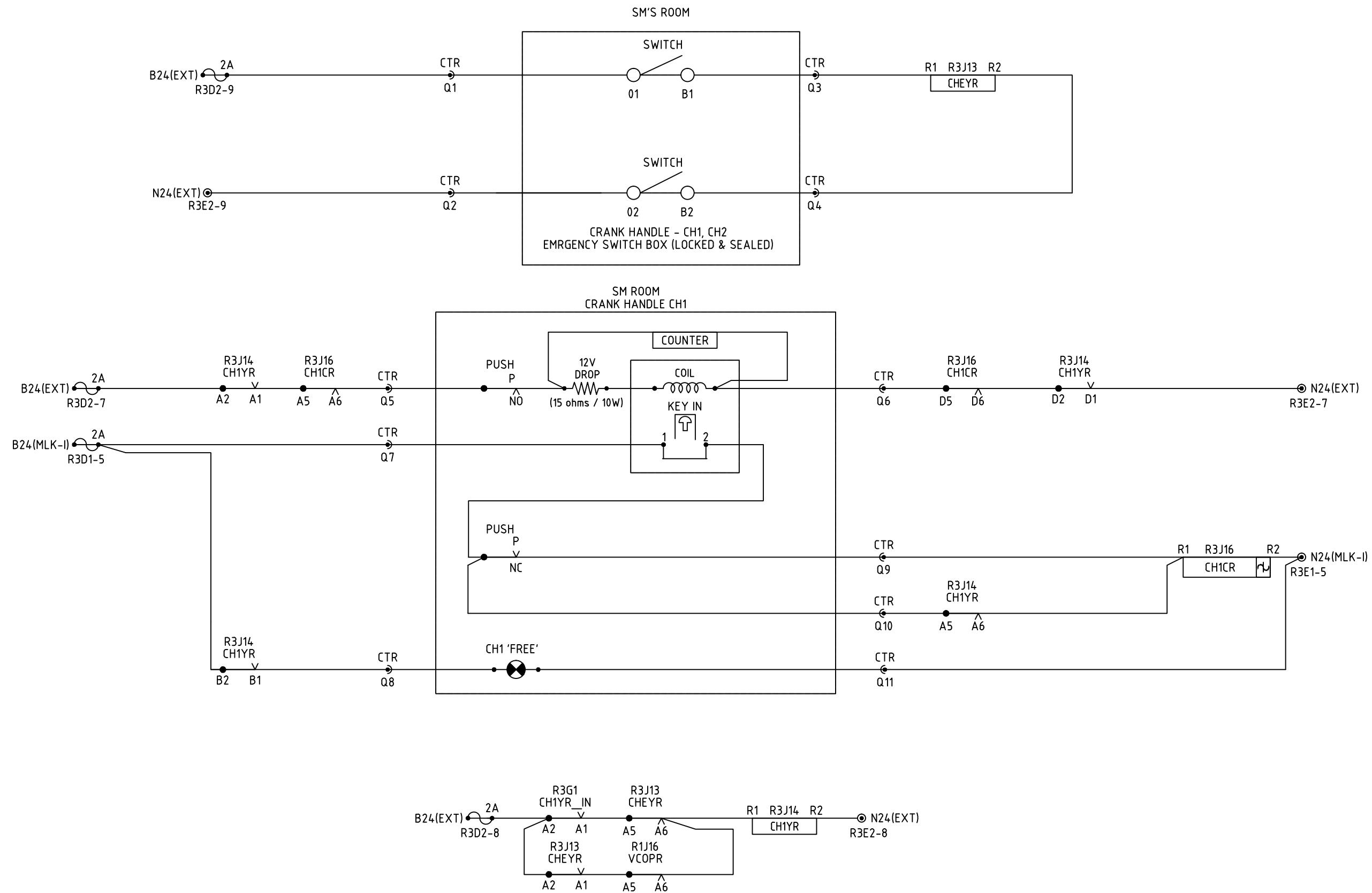
						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>I.PU.2107B/3</b> <b>REVISION</b> <hr/> <b>JE/Drg</b> <hr/> <b>SE/SSE/Drg</b> <hr/> <b>ASTE/D</b> <hr/> <b>SSTE/P &amp; P</b> <hr/> <b>f CSTE</b> <b>APP.</b>	<b>CHK.</b> <b>TITLE:</b> <b>PCR CIRCUIT</b> <hr/> <b>REF.SIG.PLAN.No.</b> <input type="text"/> <b>द म रेलवे आरेख सं</b> <input type="text"/> <b>बि B</b> <b>IPU.2107B/3</b> <b>S.C.RLY.DRG.NO</b> <hr/> <b>शीट SHEET</b> <input type="text"/> <b>कुल शीट SHEETS</b> <input type="text"/> <b>CONT'D ON:</b> <input type="text"/> <b>00409</b> <b>00070</b> <b>00501</b>	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
00	16.07.15	PR	RS	RSS	ASMADE				
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				



						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3	REVISION	<b>CHK.</b>	<b>TITLE:</b> <b>TRACK INPUT RELAY CIRCUITS</b>			<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b> <b>तातिचेर्ला</b> <b>TATICHERLA</b>		
00	16.07.15	PR	RS	RSS	ASMADE				REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि	B			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		IPU.2107B/3	S.C.RLY.DRG.NO						
								ASTE/D	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00502			
								SSTE/P & P	00501	00070					
								f CSTE	APP.						

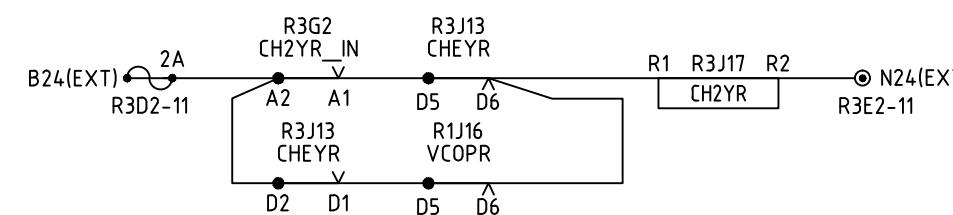
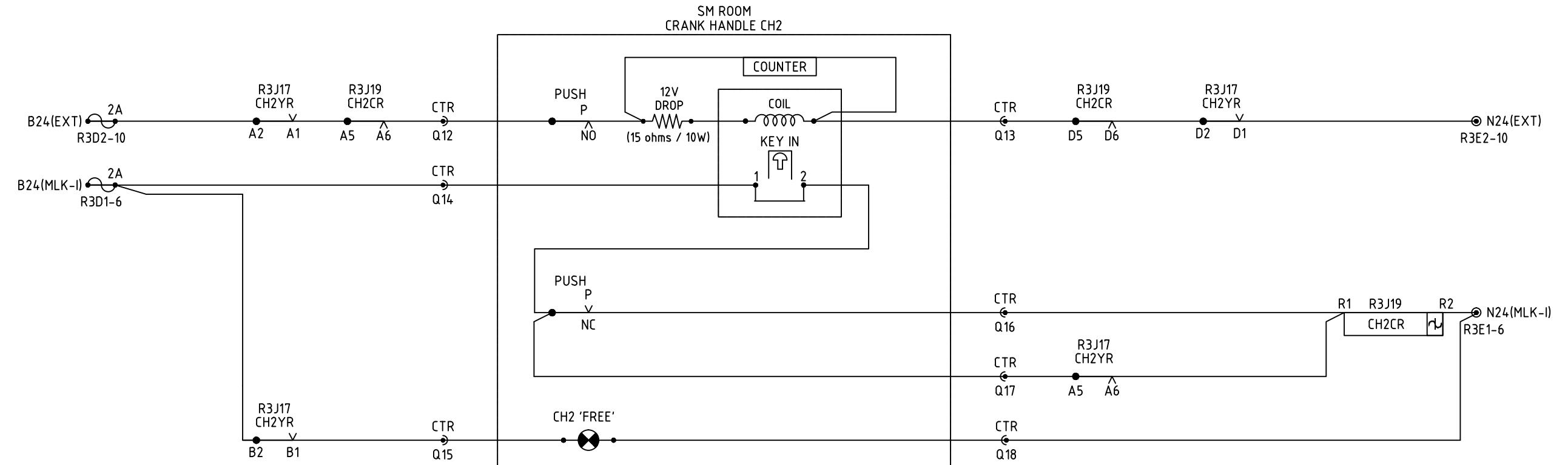


					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<p>IPU.2107B/3</p> <p>REVISION</p> <p>CHK.</p> <p>TITLE: TRACK INPUT RELAY CIRCUITS</p> <table border="1"> <tr> <td>REF.SIG.PLAN.No.</td> <td>द म रेलवे आरक्ष सं</td> <td>बि B</td> </tr> <tr> <td>IPU.2107B/3</td> <td>S.C.RLY.DRG.NO</td> <td></td> </tr> <tr> <td>शीट SHEET</td> <td>कुल शीट SHEETS</td> <td>CONT'D ON:</td> </tr> <tr> <td>00502</td> <td>00070</td> <td>00525</td> </tr> </table>	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B	IPU.2107B/3	S.C.RLY.DRG.NO		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00502	00070	00525	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि B																		
IPU.2107B/3	S.C.RLY.DRG.NO																			
शीट SHEET	कुल शीट SHEETS	CONT'D ON:																		
00502	00070	00525																		
00	16.07.15	PR	RS	RSS																
				ASMADE																
REV	DATE	DESIGNED	CHECKED	APPROVED																
				MODIFICATION																
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012																



NOTE:  
B24 ALL WIRES IS RELAY ROOM Are 16/0.2mm RED COLOUR.  
N24 ALL WIRES IS RELAY ROOM Are 16/0.2mm BLACK COLOUR.

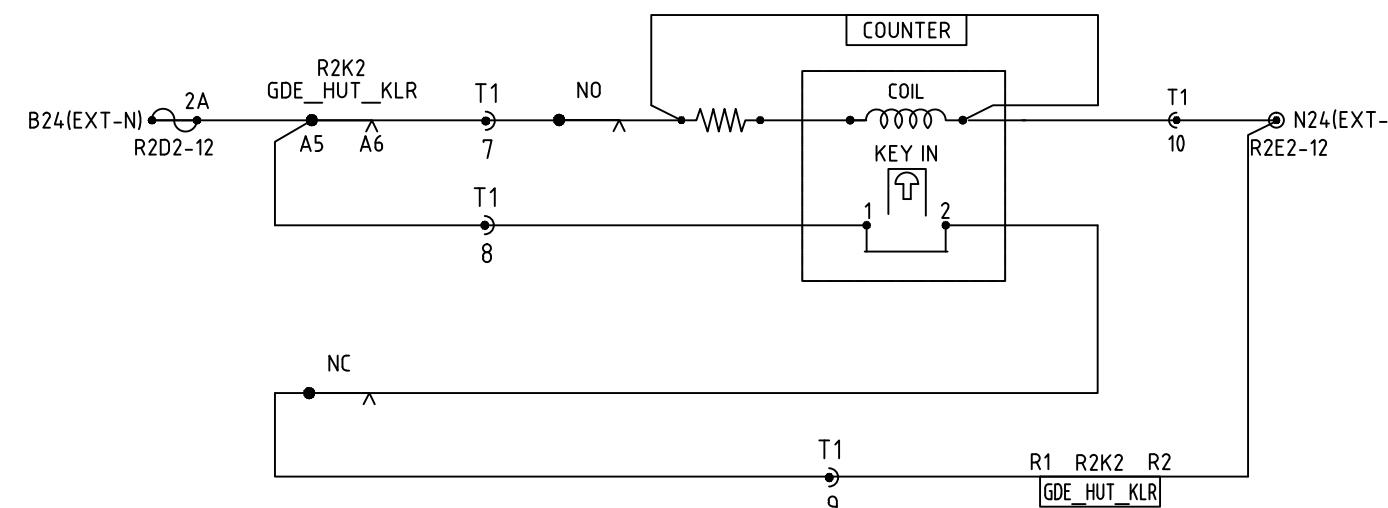
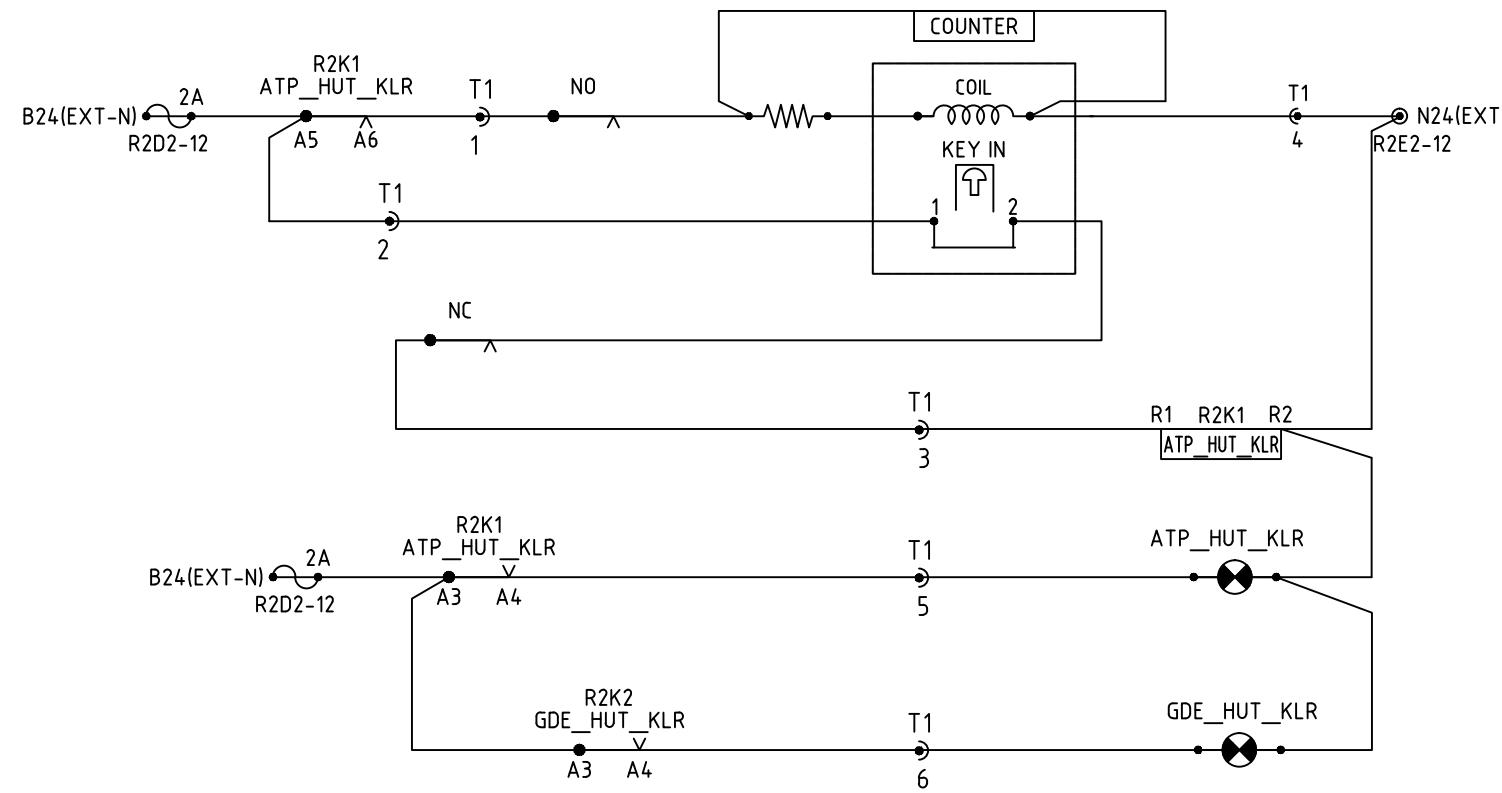
					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	REVISION	TITLE: CRANK HANDLE CIRCUITS-CH1 REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO शीट SHEET कुल शीट SHEETS CONT'D ON: 00526	CHK.	SIGNAL & TELECOMMUNICATIONS
					JE/Drg					
					SE/SSE/Drg					
00	16.07.15	PR	RS	RSS	ASTE/D					
					SSTE/P & P					
REV	DATE	DESIGNED	CHECKED	APPROVED						
									ताटिचेर्ला TATICHERLA	
									SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL	
									FILE: 512_TAC_IC_00525_R00.DWG (MICROLOK-II WARM STANDBY)	



**NOTE:**  
B24 ALL WIRES IS RELAY ROOM Are 16/0.2mm RED COLOUR.  
N24 ALL WIRES IS RELAY ROOM Are 16/0.2mm BLACK COLOUR.

					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

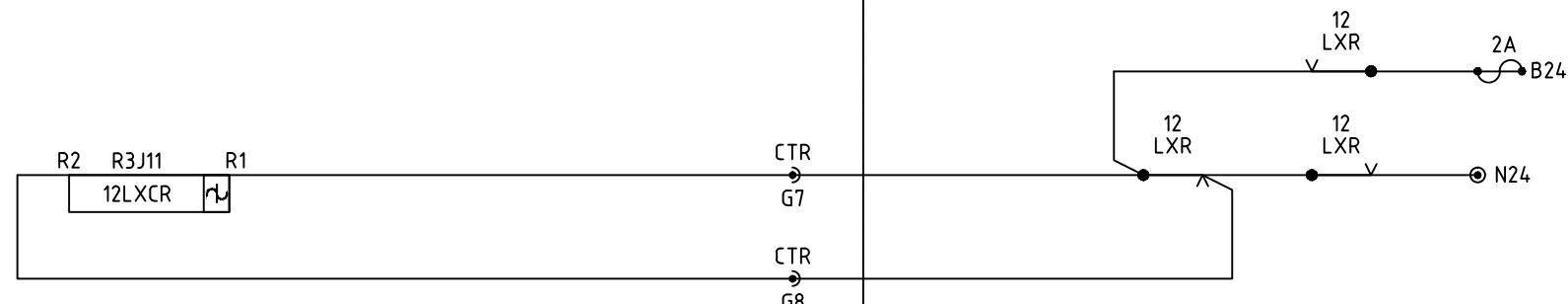
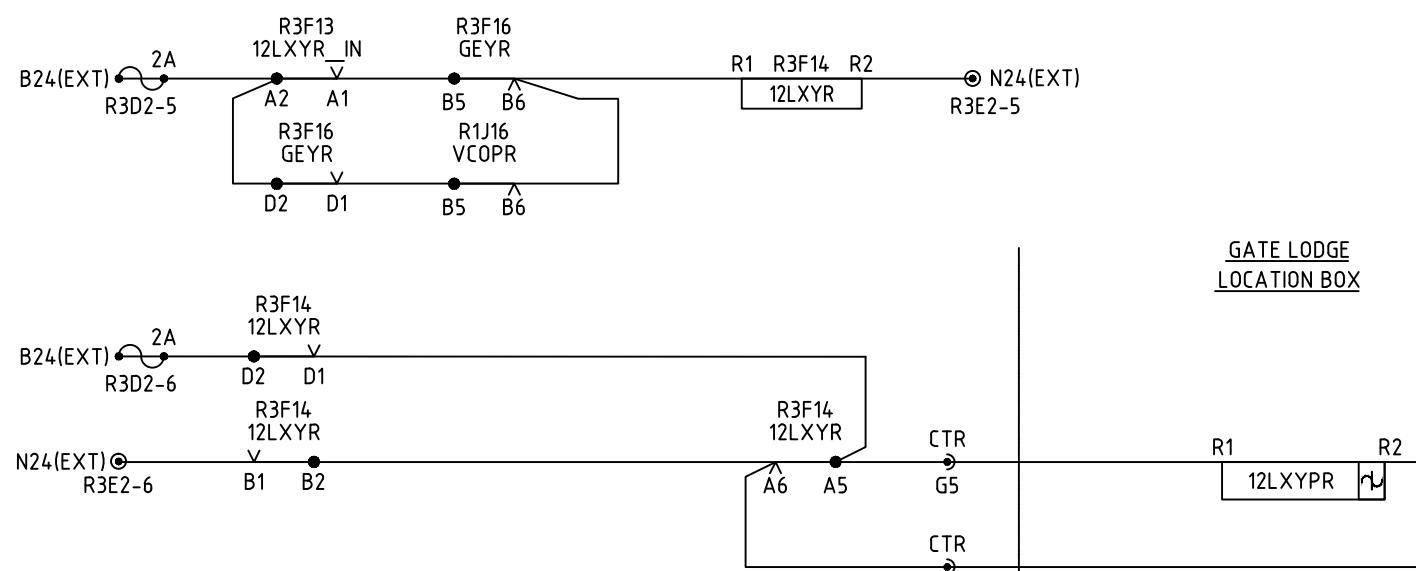
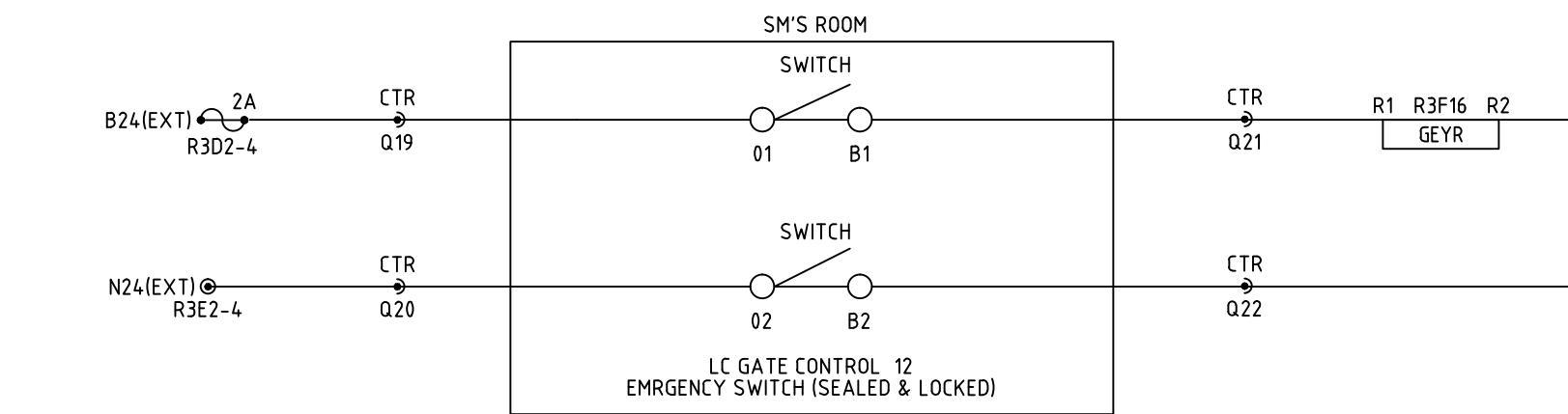
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		JE/Drg	REF.SIG.PLAN.No.	द म रेलवे आरेख सं	बि B	
		SE/SSE/Drg	IPU.2107B/3	S.C.RLY.DRG.NO		
		ASTE/D				
		SSTE/P & P				
		f CSTE	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	
			00526	00070	00530	
						SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL



**NOTE:**  
B24 ALL WIRES IS RELAY ROOM Are 16/0.2mm RED COLOUR.  
N24 ALL WIRES IS RELAY ROOM Are 16/0.2mm BLACK COLOUR.

					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

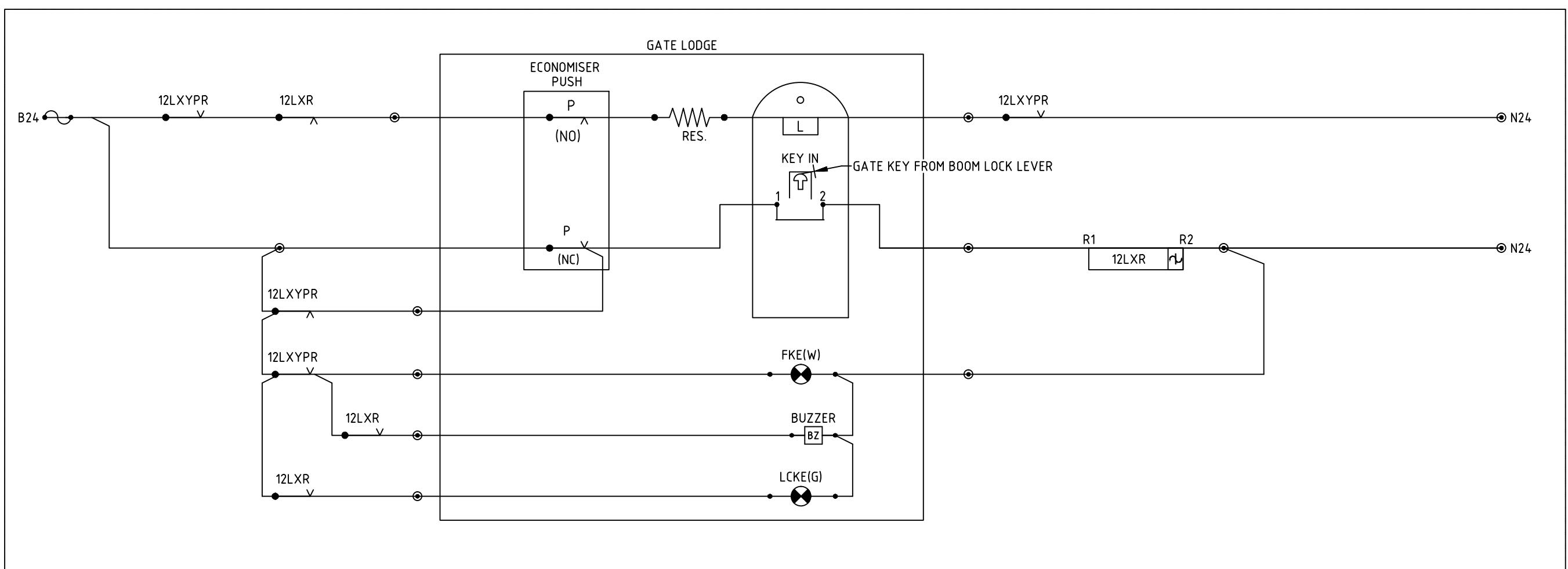
CHK.	TITLE:	COUNTER CIRCUIT		SIGNAL & TELECOMMUNICATIONS
		REF.SIG.PLAN.No.	द म रेलवे आरेख सं	
		IPU.2107B/3	S.C.RLY.DRG.NO	
		REVISION		
		JE/Drg		
		SE/SSE/Drg		
		ASTE/D		
		SSTE/P & P		
		f CSTE		
		APP.		
		शीट SHEET	कुल शीट SHEETS	CONT'D ON:
		00530	00070	00550



**NOTES:**

ALL +VE WIRES ARE 0.5 Sqmm (RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm (BLACK COLOUR) UNLESS OTHERWISE STATED.

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781, 82, 83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	<b>CHK.</b> TITLE: LEVEL CROSSING CIRCUITS-12 REF.SIG.PLAN.No. <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> वि B IPU.2107B/3 <input type="text"/> S.C.RLY.DRG.NO <input type="text"/> शीट SHEET <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00551 00550 <input type="text"/> 00070	SIGNAL व दूर संचार SIGNAL & TELECOMMUNICATIONS			
00	16.07.15	PR	RS	RSS								
REV	DATE	DESIGNED	CHECKED	APPROVED								
ASMADE					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012							
MODIFICATION												

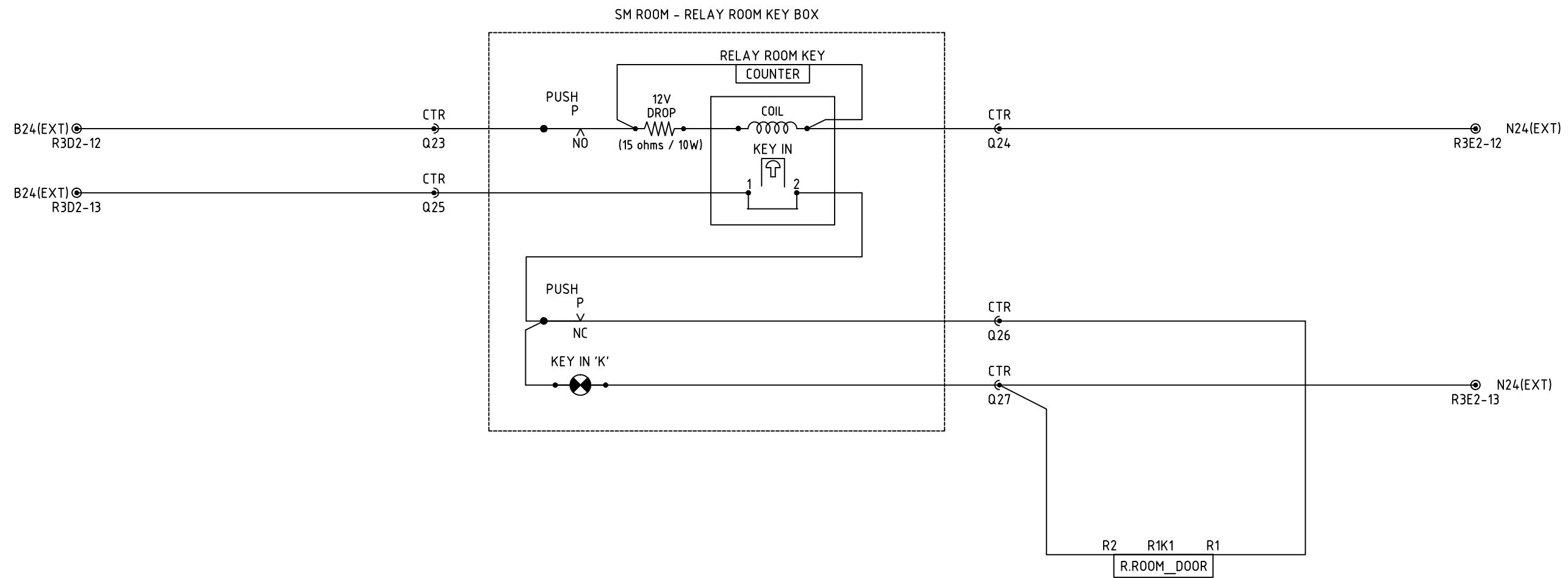


NOTES:

ALL +VE WIRES ARE 0.5 Sqmm (RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm (BLACK COLOUR) UNLESS OTHERWISE STATED.

					TVM Signalling & Transportation Systems Pvt. Ltd.
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

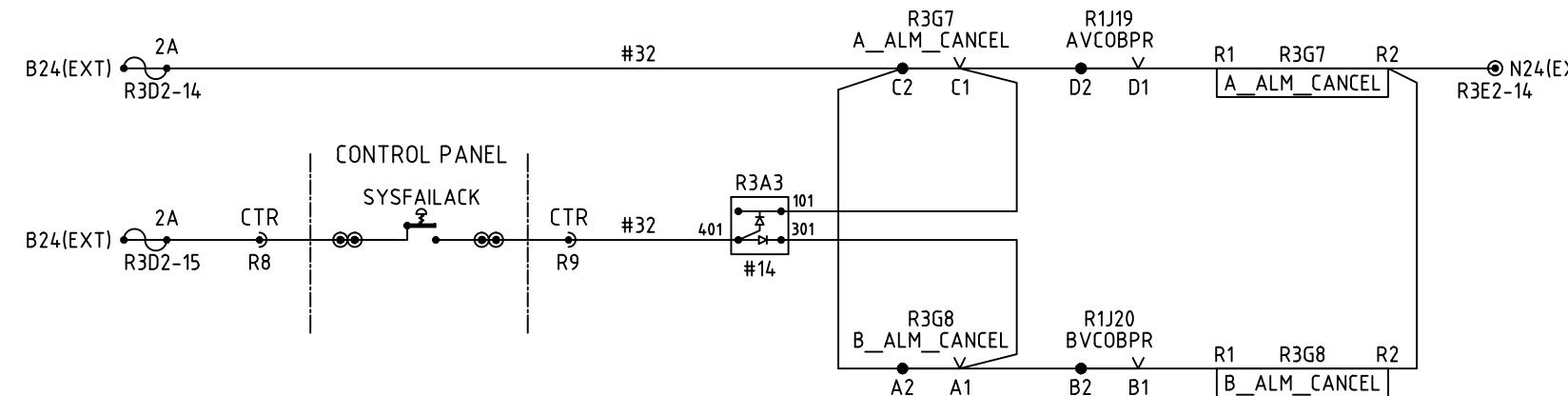
CHK.	TITLE: LEVEL CROSSING CIRCUITS-12				SIGNAL & TELECOMMUNICATIONS ताटिचेर्ला TATICHERLA	
	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि	B		
	IPU.2107B/3	S.C.RLY.DRG.NO				
	JE/Drg					
	SE/SSE/Drg					
	ASTE/D					
	SSTE/P & P					
	f CSTE	APP.	शीट SHEET	कुल शीट SHEETS	CONT'D ON:	
	00551		00070		00552	SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL



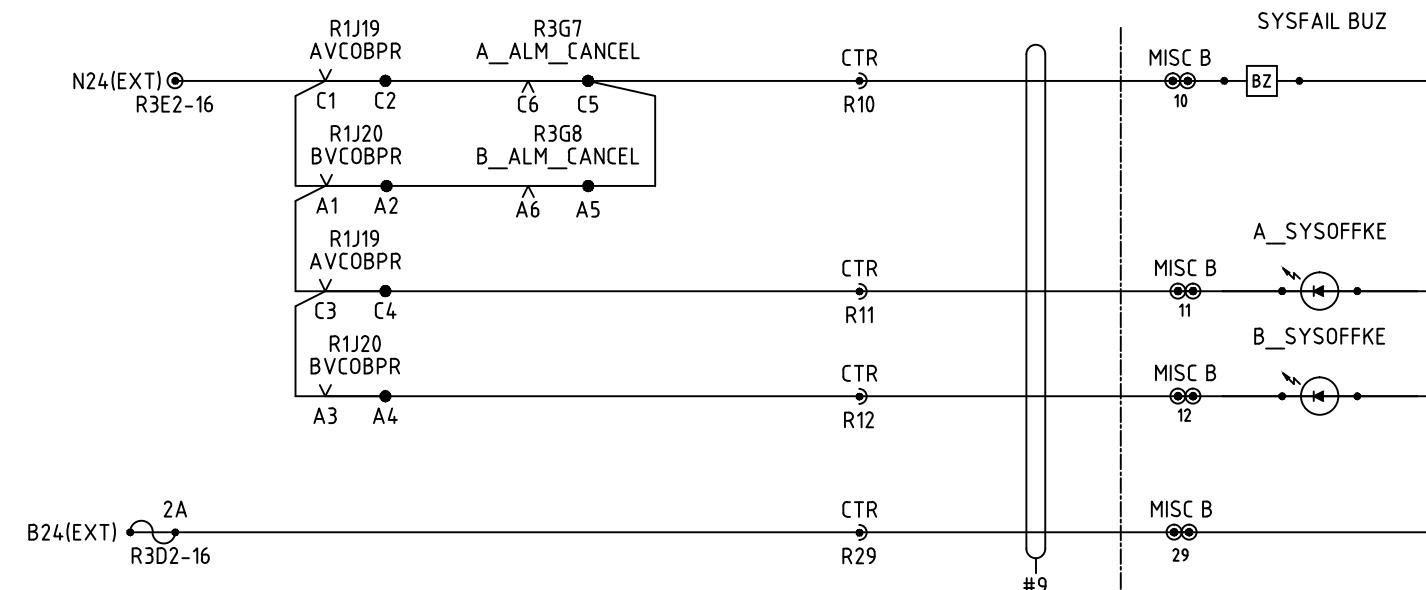
NOTE:

B24 WIRES IN RELAY ROOM ARE 16/0.20 mm RED COLOUR.  
N24 WIRES IN RELAY ROOM ARE 16/0.20 mm BLACK COLOUR.

						 <b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru - 560 078 Tel: +91 80 2654 0781, 82, 83 E-mail : info@tsts.in		IPU.2107B/3	REVISION	CHK.	TITLE: RELAY ROOM EKT CIRCUIT			<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b>  <b>ताटिचेर्ला</b> <b>TATICHERLA</b>		
								JE/Drg								
								SE/SSE/Drg								
								ASTE/D								
								SSTE/P & P								
								f CSTE								
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		REF.SIG.PLAN.NO.	द म रेलवे आरेख सं	बि B			<b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			IPU.2107B/3	S.C.RLY.DRG.NO.				CONT'D ON:	00553		
								शीट SHEET	कुल शीट SHEETS							
								00552	00070							



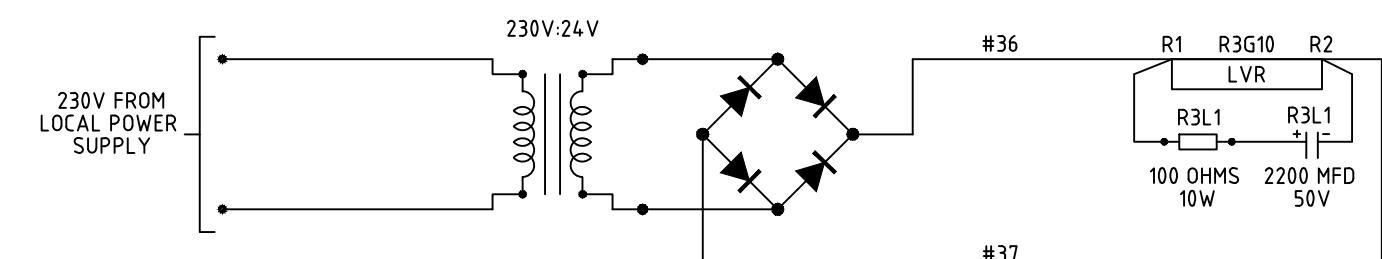
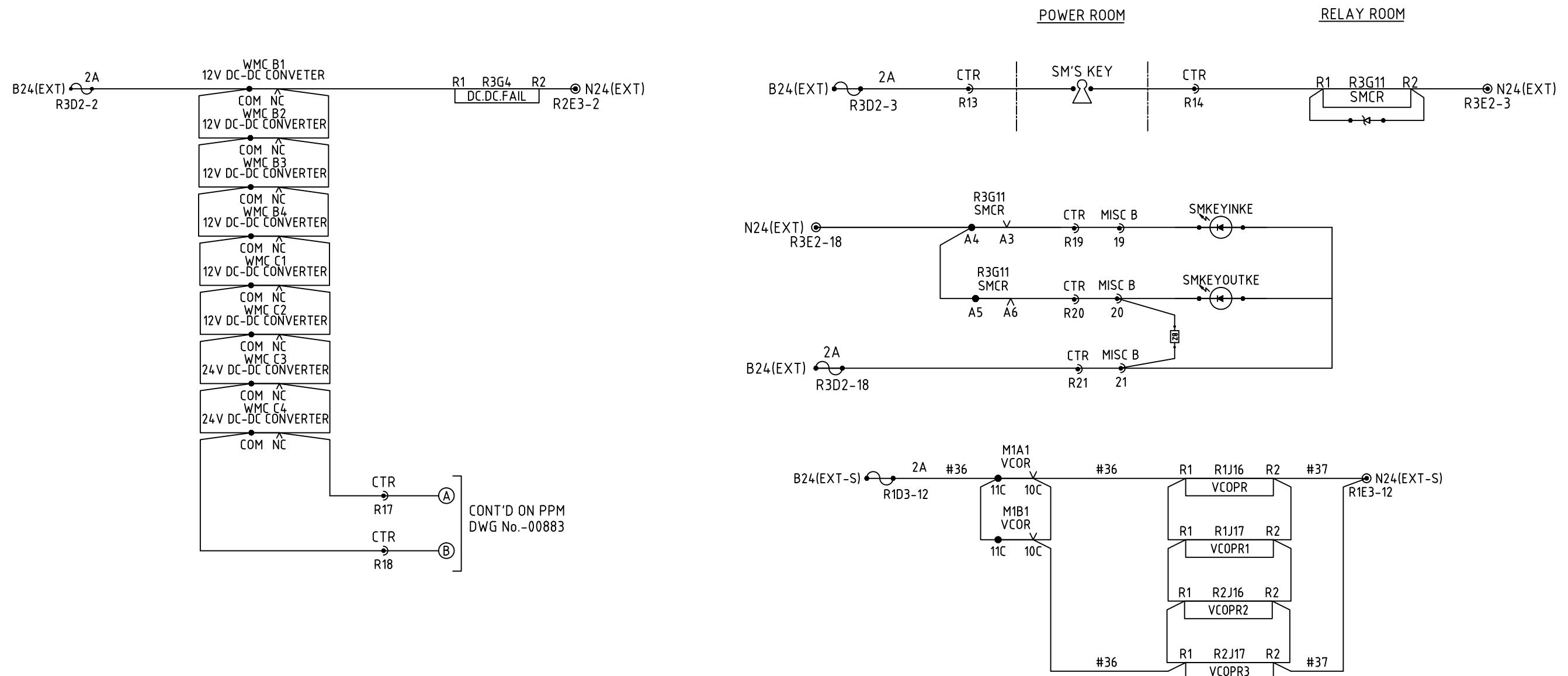
#### CONTROL PANEL SIDE



#### NOTE:

ALL WIRES 0.5 sq mm (BLACK COLOUR) UNLESS OTHERWISE STATED.  
 #32 16/0.2mm (0.5sq mm) WIRED (RED COLOUR)  
 #60 DOUBLE DECK PHOENIX TERMINAL TYPE UKK5-DIO/UL-UR HAVING  
 INBUILT DIODES 1N4007 WITH COMMON ANODE.  
 #42 50 PAIR x 0.9 mm JELLY FILLED CABLE.  
 #9 30 CORE OUTDOOR CABLE

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					R. R. R. R. R. R.		JE/Drg					
							SE/SSE/Drg					
							ASTE/D					
							SSTE/P & P					
							f CSTE					
00	16.07.15	PR	RS	RSS	ASMADE	REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO शीट SHEET कुल शीट SHEETS CONT'D ON: 00554	द म रेलवे आरक्ष सं वि B S.C.RLY.DRG.NO शीट SHEET कुल शीट SHEETS CONT'D ON: 00554	<b>TATICHERLA</b> TATICHERLA	SOUTH CENTRAL RAILWAY			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				DIVISION: GUNTAKAL			
CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012												

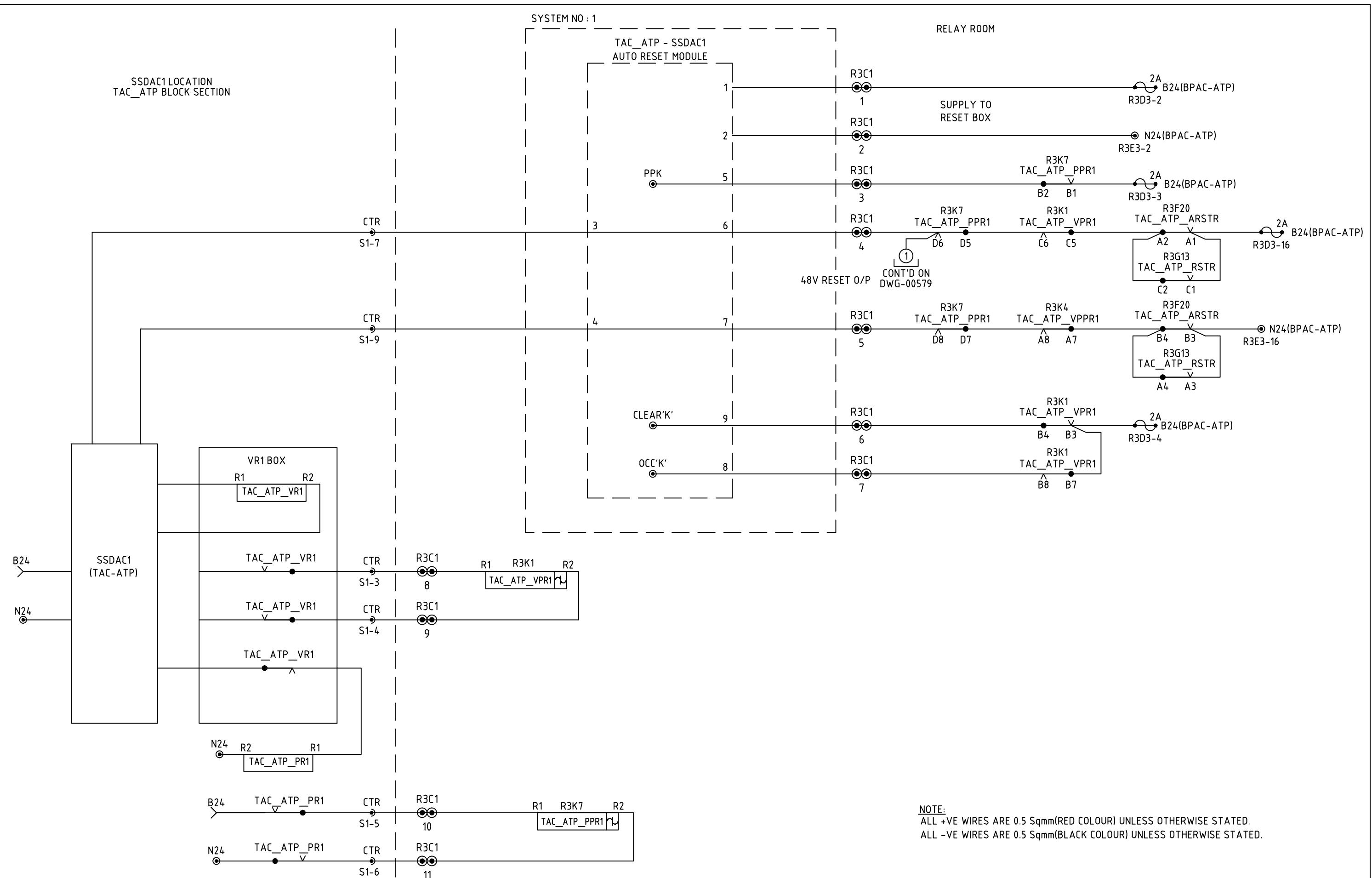


**NOTE:**

- ALL WIRES 16/0.2mm (0.5Sq.mm) WIRE (BLACK COLOUR) UNLESS OTHERWISE STATED.
- #36 30/0.25mm (1.5Sq.mm) WIRE (RED COLOUR).
- #37 30/0.25mm (1.5Sq.mm) WIRE (BLACK COLOUR).

CAPACITOR & RESISTOR FOR LVR WERE PLACED IN R1L19 & R1L20.

						<p>TVM Signalling &amp; Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in</p>	<p>IPU.2107B/3</p> <p>REVISION</p> <p>CHK.</p> <p>TITLE: SMR, DC.DC. FAIL ,VCOR &amp; LVR CIRCUIT</p> <table border="1"> <tr> <td>REF.SIG.PLAN.No.</td> <td>द म रेलवे आरक्ष सं</td> <td>बि</td> </tr> <tr> <td>IPU.2107B/3</td> <td>S.C.RLY.DRG.NO</td> <td></td> </tr> <tr> <td>शीट SHEET</td> <td>कुल शीट SHEETS</td> <td>CONT'D ON:</td> </tr> <tr> <td>00554</td> <td>00070</td> <td>00577</td> </tr> </table>	REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि	IPU.2107B/3	S.C.RLY.DRG.NO		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00554	00070	00577	SIGNAL & TELECOMMUNICATIONS
REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि																		
IPU.2107B/3	S.C.RLY.DRG.NO																			
शीट SHEET	कुल शीट SHEETS	CONT'D ON:																		
00554	00070	00577																		
					JE/Drg															
					SE/SSE/Drg															
					ASTE/D															
					SSTE/P & P															
					f CSTE															
00	16.07.15	PR	RS	RSS	ASMADE	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012	MODIFICATION	SOUTH CENTRAL RAILWAY	DIVISION: GUNTAKAL											
REV	DATE	DESIGNED	CHECKED	APPROVED																



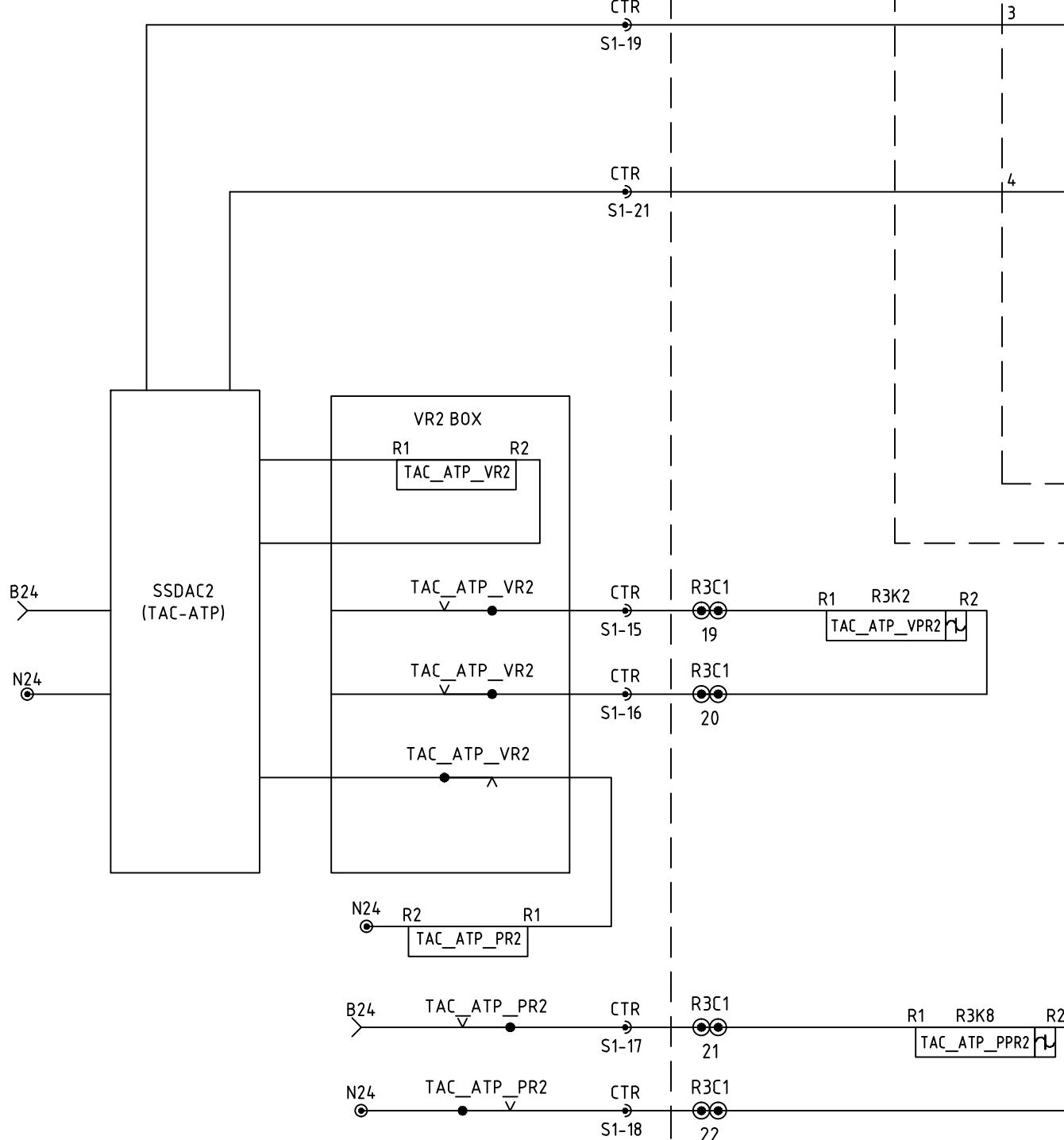
					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>CHK.</b> IPU.2107B/3 JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	<b>TITLE:</b> <b>TAC_ATP_BPAC1 CIRCUIT</b> REF.SIG.PLAN.No. <input type="text"/> द म रेलवे आरक्ष सं <input type="text"/> IPU.2107B/3 S.C.RLY.DRG.NO <input type="text"/> शीट SHEET <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00577 00070 00578	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
00	16.07.15	PR	RS	RSS				ताटिचेर्ला TATICHERLA
REV	DATE	DESIGNED	CHECKED	APPROVED				SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
				ASMADE				
				MODIFICATION				
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				

SSDAC2 LOCATION  
TAC\_ATP BLOCK SECTION

SYSTEM NO : 2

TAC\_ATP - SSDAC2  
AUTO RESET MODULE

RELAY ROOM



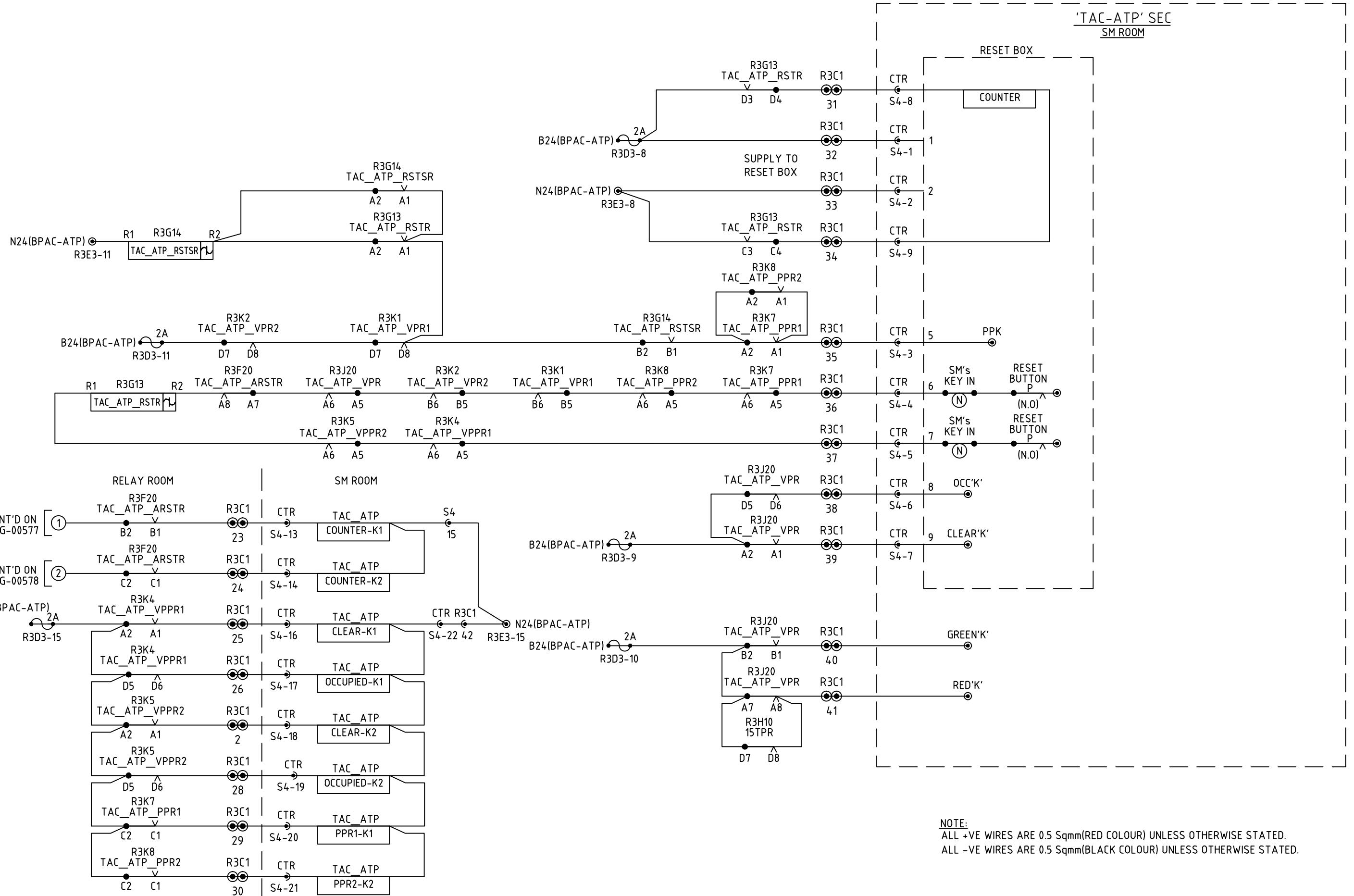
48V RESET O/P  
CONT'D ON  
DWG-00579

CLEAR'K'

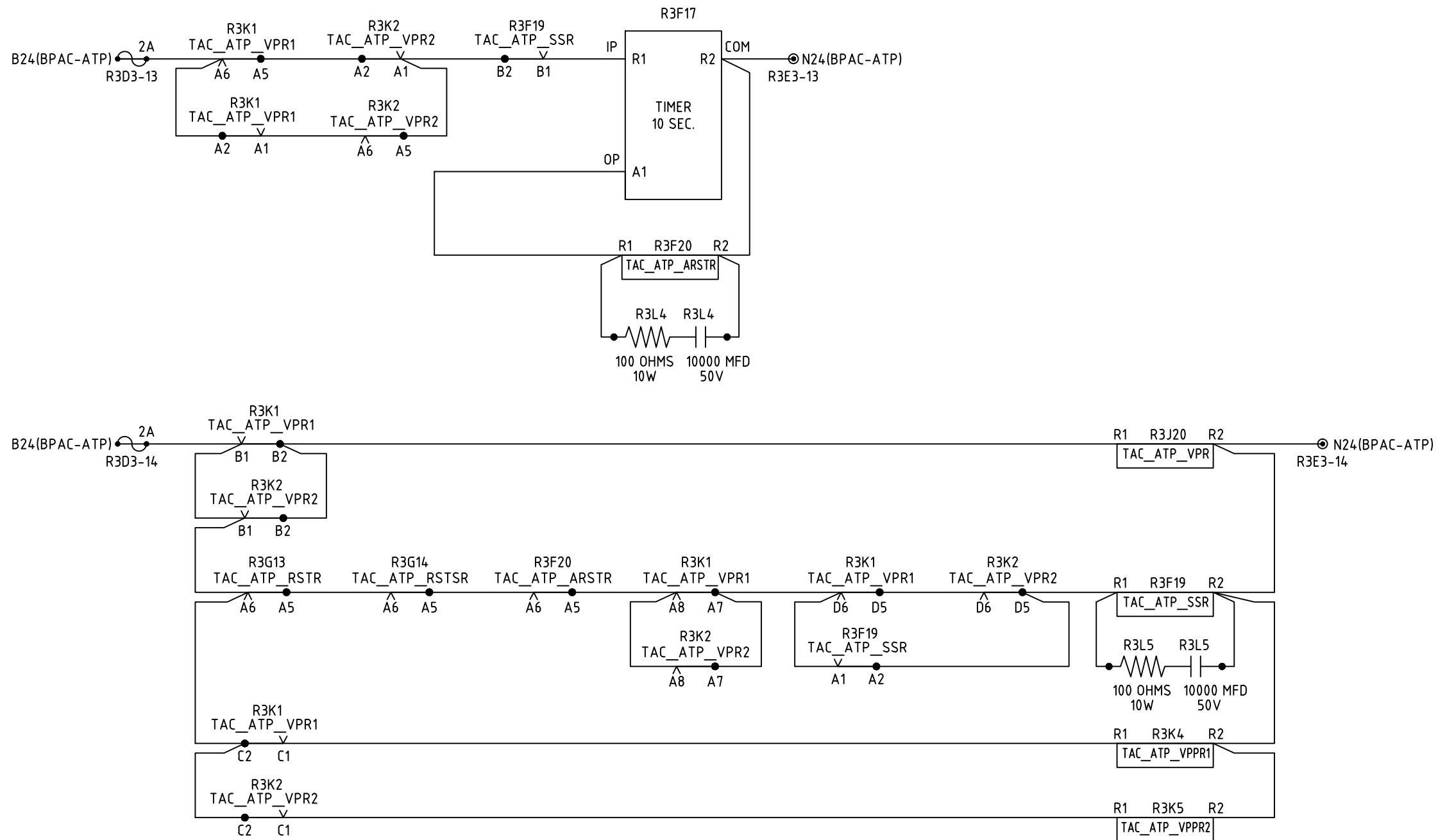
OCC'K'

**NOTE:**  
ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.

					<p> TVM Signalling &amp; Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in</p>	<p>IPU.2107B/3</p>	REVISION	<p>CHK.</p>	<p>TITLE: TAC_ATP_BPAC2 CIRCUIT</p>	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
						JE/Drg					
						SE/SSE/Drg					
						ASTE/D					
						SSTE/P & P					
						f CSTE					
00	16.07.15	PR	RS	RSS	ASMADE		REF.SIG.PLAN.No.	द म रेलवे आरक्ष सं	बि	B	
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		IPU.2107B/3	S.C.RLY.DRG.NO			
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		शीट SHEET	कुल शीट SHEETS	CONT'D ON:	00579	
							00578	00070			

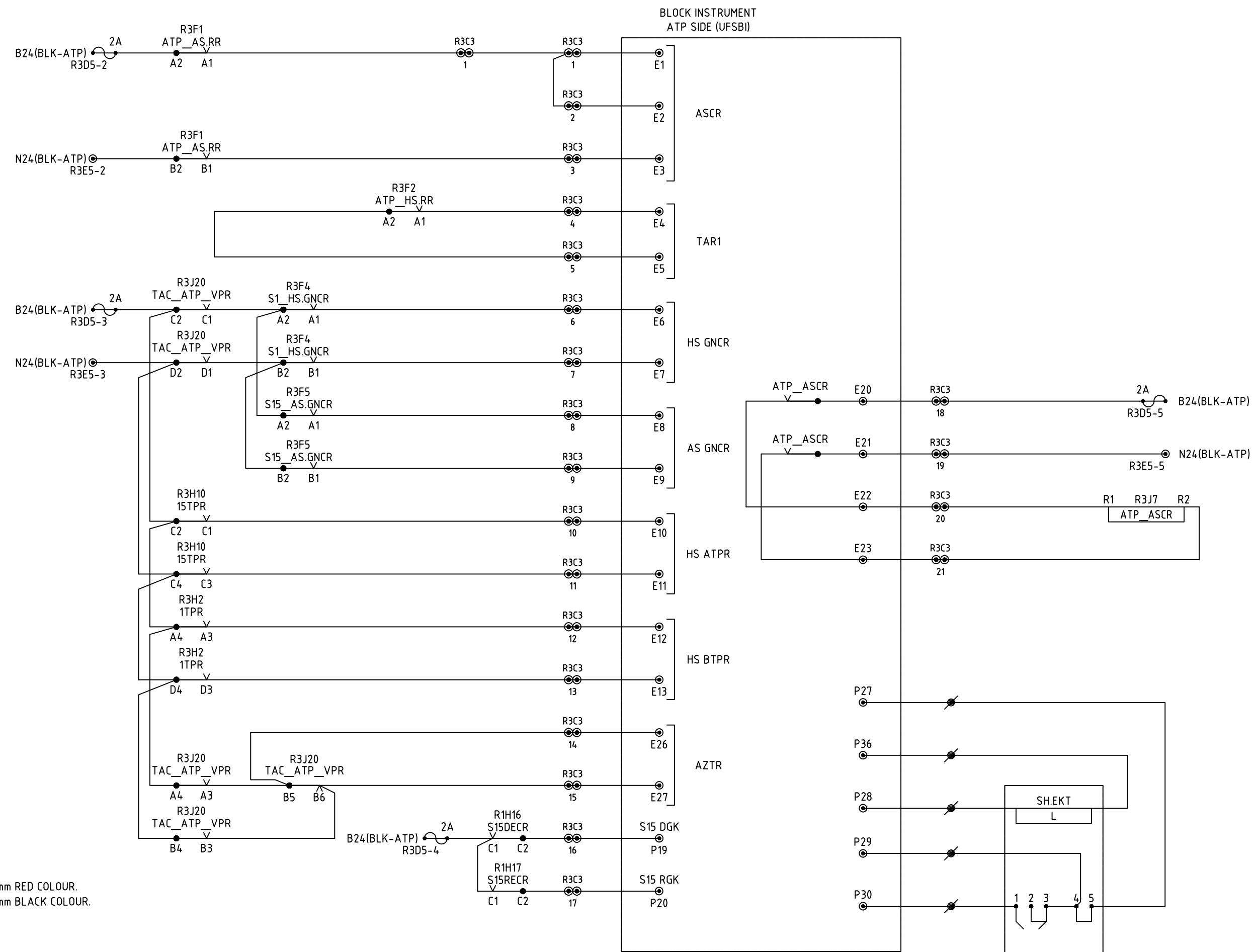


					TVM Signalling & Transportation Systems Pvt. Ltd.	IPU.2107B/3	REVISION	TITLE: TAC_ATP BPAC CIRCUIT	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
					#610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in		JE/Drg			
							SE/SSE/Drg			
00	16.07.15	PR	RS	RSS	ASMADE		ASTE/D			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION		SSTE/P & P			
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		f CSTE	APP.	00579 00070 00580	

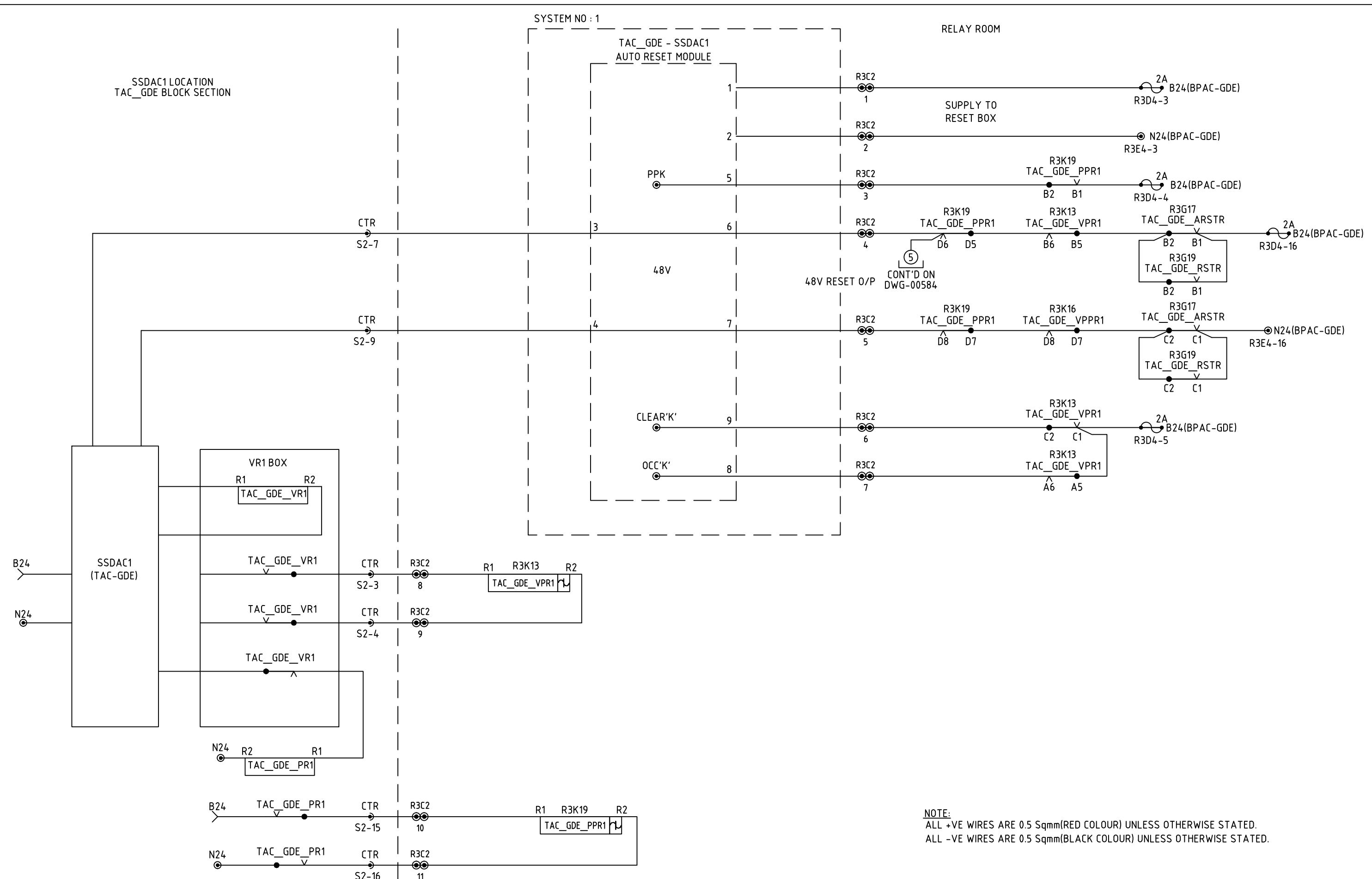


**NOTE:**  
ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>I.PU.2107B/3</b> <b>REVISION</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>CHK.</b> <b>TITLE:</b> <b>TAC_ATP_BPAC RESET CIRCUIT</b> <hr/> <b>REF.SIG.PLAN.No.</b> <b>IPU.2107B/3</b> <b>S.C.RLY.DRG.NO.</b> <b>वि B</b> <hr/> <b>प्रीट SHEET</b> <b>कुल प्रीट SHEETS</b> <b>CONT'D ON:</b> <b>00581</b> <hr/> <b>APP.</b> <b>f CSTE</b> <b>00580</b> <b>00070</b>	<b>सिग्नल व दूर संचार</b> <b>SIGNAL &amp; TELECOMMUNICATIONS</b> <hr/> <b>ताटिचेर्ला</b> <b>TATICHERLA</b> <hr/> <b>SOUTH CENTRAL RAILWAY</b> <b>DIVISION: GUNTAKAL</b>
00	16.07.15	PR	RS	RSS	ASMADE				
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION				
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				



					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781, 82, 83 E-mail : info@tsts.in	IPU.2107B/3  JE/Drg  SE/SSE/Drg  ASTE/D  SSTE/P & P  f CSTE	TITLE: TAC-ATP SECTION SINGLE LINE BLOCK INPUT & OUTPUT CIRCUITS	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS	
00	16.07.15	PR	RS	RSS					
				ASMADE					
REV	DATE	DESIGNED	CHECKED	APPROVED					
				MODIFICATION					
				CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012					

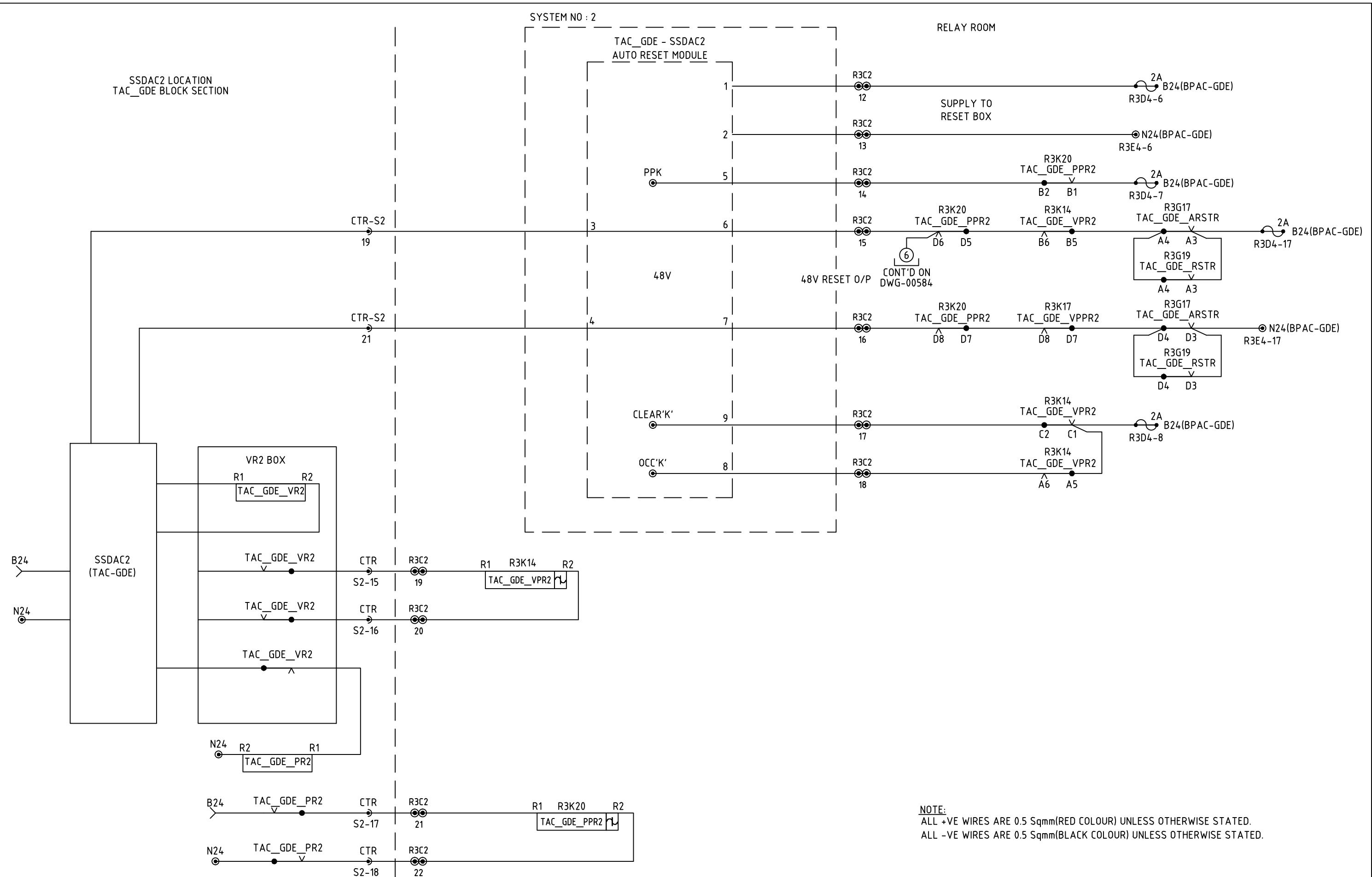


**NOTE:**  
ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.

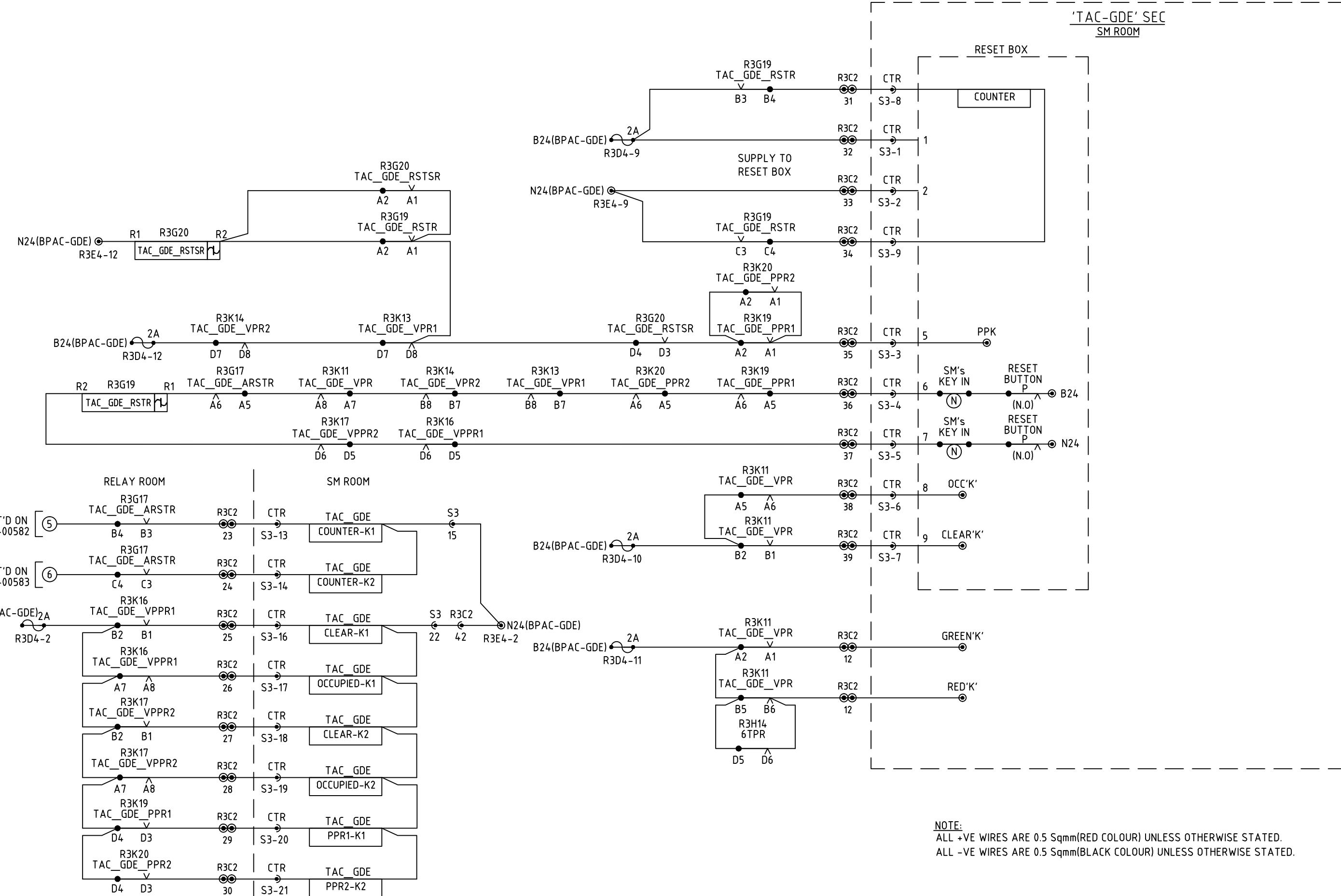
CHK.	TITLE: TAC_GDE_BPAC1 CIRCUIT				SIGNAL & TELECOMMUNICATIONS ताटिचेर्ला TATICHERLA
	REF.SIG.PLAN.No.	द म रेलवे आरख सं	बि B	S.C.RLY.DRG.NO	
	IPU.2107B/3	REVISION			
		JE/Drg			
		SE/SSE/Drg			
		ASTE/D			
		SSTE/P & P			
		f CSTE	APP.	शीट SHEET	कुल शीट SHEETS
				CONT'D ON:	00583
00	16.07.15	PR	RS	RSS	ASMADE
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012

TVM Signalling & Transportation Systems Pvt. Ltd.

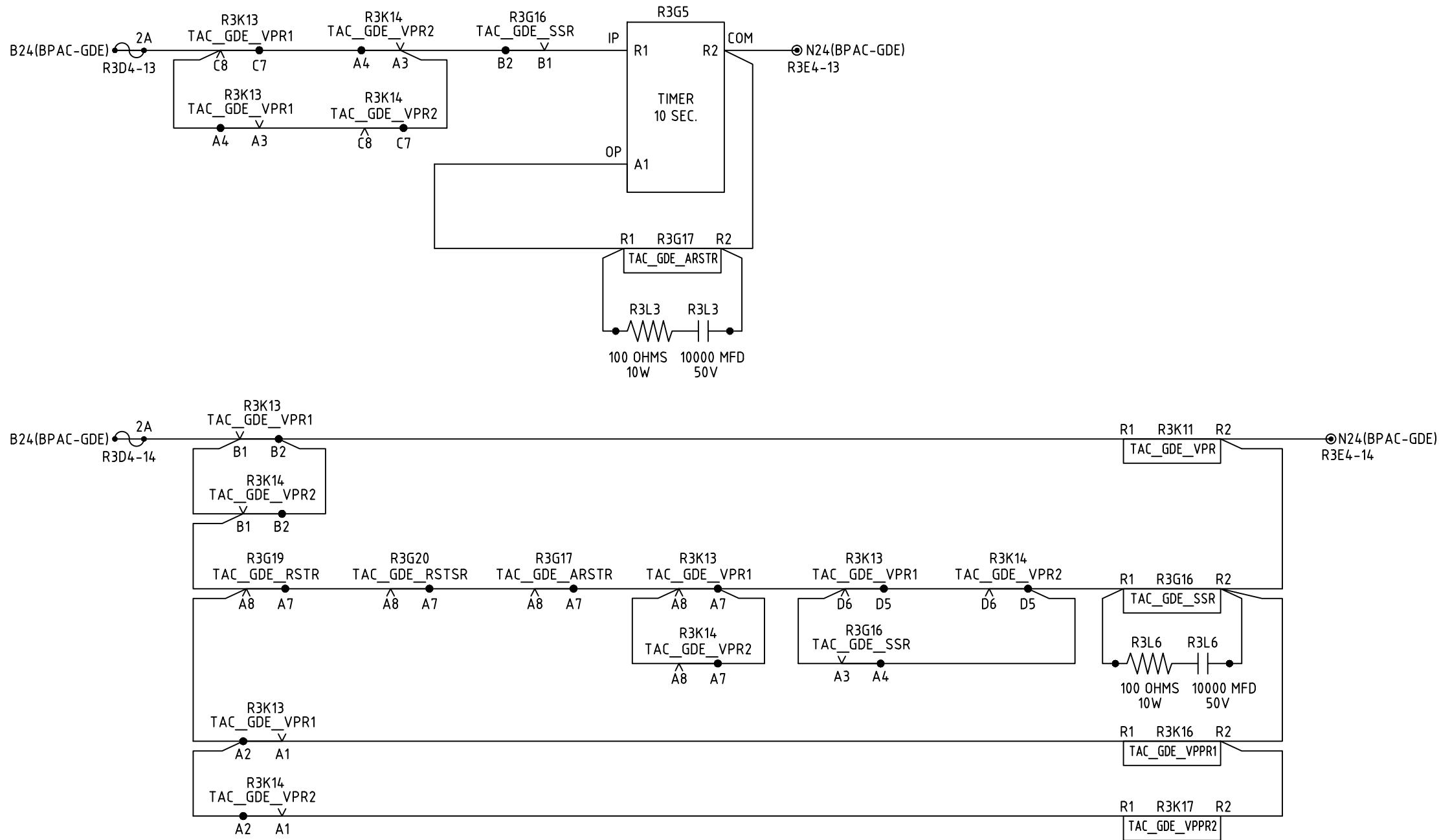
#610, "NARAYANA", 1st Floor, 15th Cross,  
100 Feet Road, J.P.Nagar, 6th Phase,  
Bengaluru – 560 078  
Tel: +91 80 2654 0781,82,83  
E-mail : info@tsts.in



					TVM Signalling & Transportation Systems Pvt. Ltd. #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	<b>CHK.</b>  IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSSTE/P & P f CSTE APP. 00583 00070	<b>TITLE:</b> TAC_GDE_BPAC2 CIRCUIT <hr/> REF.SIG.PLAN.No. <input type="text"/> द म रेलवे आरेख सं <input type="text"/> IPU.2107B/3 S.C.RLY.DRG.NO <input type="text"/> शीट SHEET <input type="text"/> कुल शीट SHEETS <input type="text"/> CONT'D ON: <input type="text"/> 00584	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
00	16.07.15	PR	RS	RSS	ASMADE			
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION			
					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012			



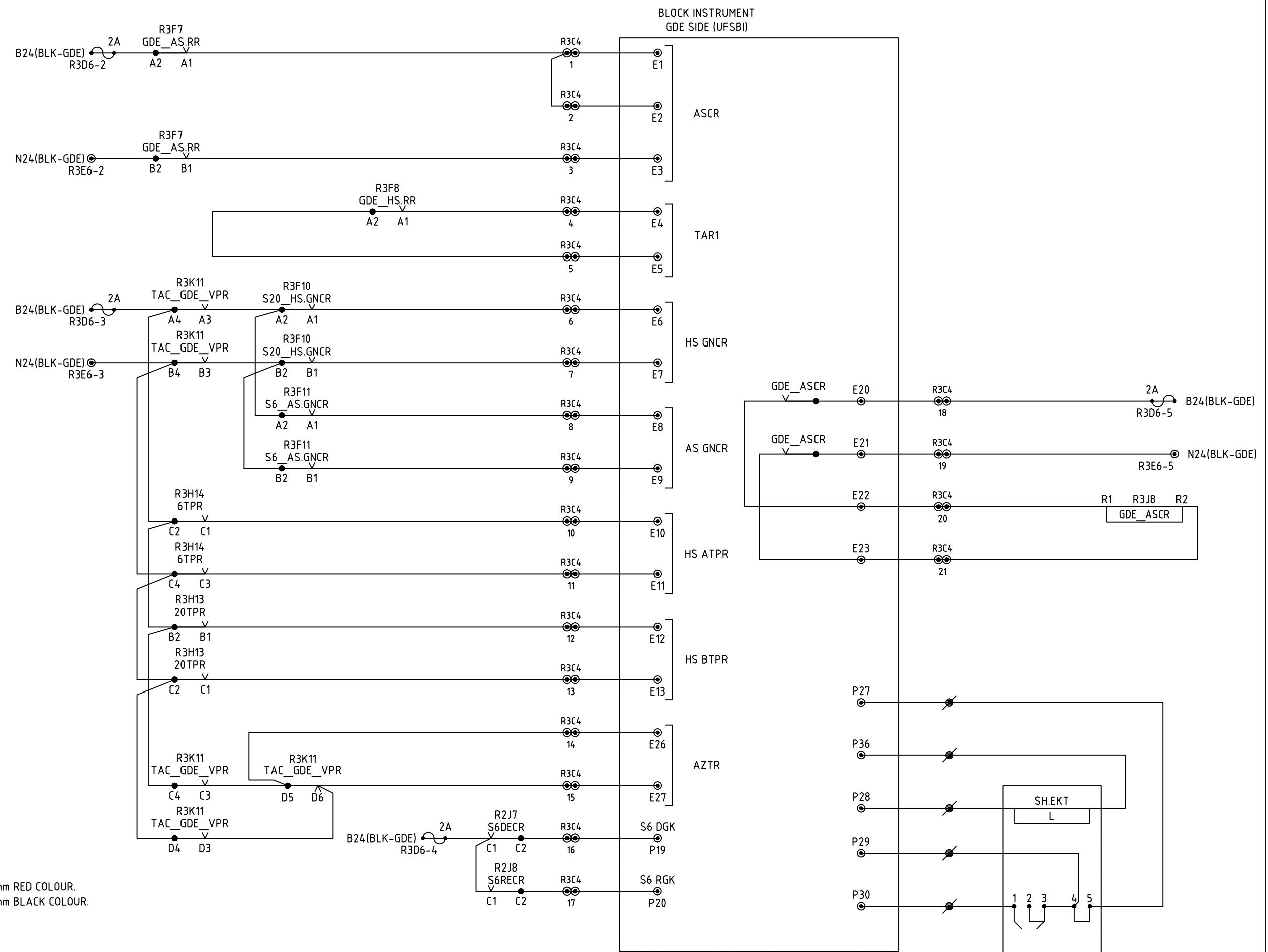
					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	TITLE: TAC_GDE BPAC CIRCUIT REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO शीट SHEET कुल शीट SHEETS CONT'D ON: 00585	सिग्नल व दूर संचार SIGNAL & TELECOMMUNICATIONS
								ताटिचेर्ला TATICHERLA
00	16.07.15	PR	RS	RSS				SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL
REV	DATE	DESIGNED	CHECKED	APPROVED				FILE: 512_TAC_IC_00584_R00.DWG
								(MICROLOK-II WARM STANDBY)
								CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012



NOTE:

ALL +VE WIRES ARE 0.5 Sqmm(RED COLOUR) UNLESS OTHERWISE STATED.  
ALL -VE WIRES ARE 0.5 Sqmm(BLACK COLOUR) UNLESS OTHERWISE STATED.

						<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 REVISION JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	TITLE: <b>TAC_GDE_BPAC_RESET_CIRCUIT</b>  REF.SIG.PLAN.No. IPU.2107B/3 S.C.RLY.DRG.NO द म रेलवे आरेख सं वि B SHEET NO. 00585 TOTAL SHEET NO. 00070 CONT'D ON: 00586	CHK.	SIGNAL & TELECOMMUNICATIONS तातिचेर्ला TATICHERLA
00	16.07.15	PR	RS	RSS	ASMADE					
REV	DATE	DESIGNED	CHECKED	APPROVED	MODIFICATION	CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012				SOUTH CENTRAL RAILWAY DIVISION: GUNTAKAL



					<b>TVM Signalling &amp; Transportation Systems Pvt. Ltd.</b> #610, "NARAYANA", 1st Floor, 15th Cross, 100 Feet Road, J.P.Nagar, 6th Phase, Bengaluru – 560 078 Tel: +91 80 2654 0781,82,83 E-mail : info@tsts.in	IPU.2107B/3 JE/Drg SE/SSE/Drg ASTE/D SSTE/P & P f CSTE	TITLE: TAC-GDE SECTION SINGLE LINE BLOCK INPUT & OUTPUT CIRCUITS	सिग्नल व दूर संचार	
								SIGNAL & TELECOMMUNICATIONS	
								तातिचेर्ला	
								TATICHERLA	
00	16.07.15	PR	RS	RSS				SOUTH CENTRAL RAILWAY	
REV	DATE	DESIGNED	CHECKED	APPROVED				DIVISION: GUNTAKAL	
MODIFICATION					CONTRACT No:06/S&T/01/2012 Dtd:23.04.2012		शीट SHEET	कुल शीट SHEETS	CONT'D ON:
							00586	00070	---