D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

C.N.C.F. "C.F.R." - S.A.

ITALFERR
GRUPPO FERROVIE DELLO STATO
Joint Venture leader

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Şef proiect Project manager	R. Liuzza	12.12.2011	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	12.12.2011	
Verificat Checked	Expert Cheie Key Expert	P. Amodio	12.12.2011	

SUBCONTRACTANT / SUBCONTRACTOR AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	12.12.2011	
Întocmit Elaborated	Proiectant Designer	ing. Juganaru Adriana	12.12.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulaţia trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Brasov - Sighisoara
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
D.E. / D.D.

Denumire desen / Drawing Title :

Statia / Station VANATORI
Fise si regletele ramei B1
Wiring diagrams for B1 frame

Codificare / Codification System	Scara / Scale Fără / No scale	LOT / LOT	Nr. / No 01 / 69

E A 5 1 0 1 E 1 7 B X S E 0 1 7 2 0 1 9 0

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

	1	2
9		NF1–2000 XO–2AD
8	NF1–2000 13–Si	NF1–2000 15–Si
7	NF1–2000 YF–1AD	NF1–2000 024–C
6	NF1–2000 14–Si	NF1–2000 1–C
5	2x0,5 A	
4		
3		
2		
1		

Nr. crt.	Tip releu	buc.
1	NF1–2000	28
2	Sigurante de 0,5A	2
3		
4		
5		

Statia: VANATORI

RAMA B1

3	4	5	6	7	8	9
NF1-2000 XO-1ADb	NF1-2000 013-C	NF1-2000 023-C	NF1-2000 033-C	NF1-2000 1-Si	NF1-2000 3-11-Si	NF1-2000 7-9-Si
NF1-2000 17-Si	NF1-2000 19-Si	NF1-2000 015-C	NF1-2000 II-C	NF1-2000 XO-1ADa		
NF1-2000 Y-1AD	NF1-2000 034-C	NF1-2000 2-8-Si	NF1-2000 4-6-Si	NF1-2000 10-Si	NF1-2000 10b-Si	NF1-2000 12-Si
NF1-2000 III-C	NF1-2000 4-C					
54 VOLTMETRU ELECTRONIC TIP ICN-4 PENTRU MASURAREA CICLICA A CIRCUITELOR DE CALE					58	59

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 5

59	58	54												51	
		INDICATOR CICLIC DE NIVEL ICN-4												2x0,5 A	
		CUPLA T1			CUPLA T2			CUPLA T3			CUPLA T4			S1	**Ax220**
1	1	CANAL		ADRESA	CANAL		ADRESA	CANAL		ADRESA	CANAL		ADRESA		B1-9-28
2	2	0-0	C3		2-0	C3	B1-9-2	4-0	C3		6-0	C3		S2	TG-C1
3	3	0-1	B3	B1-10-1	2-1	B3	B1-9-4	4-1	B3		6-1	B3		S3	**0x220** B1-9-30
4	4	0-2	A4	B1-10-3	2-2	A4	B1-9-6	4-2	A4		6-2	A4		S4	TG-B3
12	12	0-3	C6	B1-10-5	2-3	C6	B1-9-8	4-3	C6		6-3	C6			
11	11	0-4	B5	B1-10-7	2-4	B5	B1-9-10	4-4	B5		6-4	B5			
13	13	0-5	A5	B1-10-9	2-5	A5	B1-9-12	4-5	A5		6-5	A5			
22	22	0-6	A6	B1-10-11	2-6	A6	B1-9-14	4-6	A6		6-6	A6			
21	21	0-7	B6	B1-10-13	2-7	B6	B1-9-16	4-7	B6		6-7	B6			
23	23	1-0	C7	B1-10-15	3-0	C7	B1-9-18	5-0	C7		7-0	C7			
32	32	1-1	B7	B1-10-17	3-1	B7	B1-9-20	5-1	B7		7-1	B7			
31	31	1-2	A8	B1-10-19	3-2	A8	B1-9-22	5-2	A8		7-2	A8			
33	33	1-3	A10	B1-10-21	3-3	A10	B1-9-24	5-3	A10		7-3	A10			
42	42	1-4	C9	B1-10-23	3-4	C9	B1-9-26	5-4	C9		7-4	C9			
41	41	1-5	B9	B1-10-25	3-5	B9		5-5	B9		7-5	B9			
43	43	1-6	C10	B1-10-27	3-6	C10		5-6	C10		7-6	C10			
52	52	1-7	B10	B1-10-29	3-7	B10		5-7	B10		7-7	B10			
51	51	A1-B1-C1 A2-B2-C2 MASA CUPLA			A1-B1-C1 A2-B2-C2 MASA CUPLA			A1-B1-C1 A2-B2-C2 MASA CUPLA			A1-B1-C1 A2-B2-C2 MASA CUPLA				
53	53														
62	62														
61	61														
63	63														
72	72														
71	71														
73	73														
82	82														
81	81														
83	83														

CUPLA TG		
ROL		ADRESA
Ax220	C1	1-S2
0x220	B3	1-S4
Protectie	A1	

B1-5

Statia: VANATORI

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 6

	9		8		7		6		5		4		3		2		1
Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.		Nr. crt.	4-C	Nr. crt.	III-C	Nr. crt.	1-C	Nr. crt.	14-Si
1		1		1		1		1		1		1		1		1	
2		2		2		2		2		2	B1-8-13	2	B1-8-9	2	B1-8-5	2	B1-8-1
3		3		3		3		3		3		3		3		3	
4		4		4		4		4		4	B1-8-15	4	B1-8-11	4	B1-8-7	4	B1-8-3
12		12		12		12		12		12		12		12		12	
11		11		11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22		22		22		22		22		22	B1-3-17	22	B1-3-15	22	B1-3-13	22	B1-3-11
21		21		21		21		21		21	B1-2-18	21	B1-2-16	21	B1-2-14	21	B1-2-12
23		23		23		23		23		23	B1-3-18	23	B1-3-16	23	B1-3-14	23	B1-3-12
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

B1-6

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 7

	9		8		7		6		5		4		3		2		1
Nr. crt.	12-Si	Nr. crt.	10b-Si	Nr. crt.	10-Si	Nr. crt.	4-6-Si	Nr. crt.	2-8-Si	Nr. crt.	034-C	Nr. crt.	Y-1AD	Nr. crt.	024-C	Nr. crt.	YF-1AD
1		1		1		1		1		1		1		1		1	
2	B1-8-34	2	B1-8-30	2	8-11	2	B1-8-22	2	B1-8-18	2	B1-8-14	2	B1-8-10	2	B1-8-6	2	B1-8-2
3		3		3		3		3		3		3		3		3	
4	B1-8-36	4	B1-8-32	4	B1-8-28	4	B1-8-24	4	B1-8-20	4	B1-8-16	4	B1-8-12	4	B1-8-8	4	B1-8-4
12		12	B1-8-26	12		12		12		12		12		12		12	
11		11	7-2	11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22	B1-3-9	22		22	B1-3-7	22	B1-3-5	22	B1-3-3	22	B1-3-1	22	B1-1-36	22	B1-1-34	22	B1-1-32
21	B1-2-10	21		21	B1-2-8	21	B1-2-6	21	B1-2-4	21	B1-2-2	21	B1-1-35	21	B1-1-33	21	B1-1-31
23	B1-3-10	23		23	B1-3-8	23	B1-3-6	23	B1-3-4	23	B1-3-2	23	B1-2-35	23	B1-2-33	23	B1-2-31
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

B1-7

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.

RANDUL 8

	9		8		7		6		5		4		3		2		1
Nr. crt.		Nr. crt.		Nr. crt.	XO-1ADa	Nr. crt.	II-C	Nr. crt.	015-C	Nr. crt.	19-Si	Nr. crt.	17-Si	Nr. crt.	15-Si	Nr. crt.	13-Si
1		1		1		1		1		1		1		1		1	
2		2		2	B1-7-21	2	B1-7-17	2	B1-7-13	2	B1-7-9	2	B1-7-5	2	B1-7-1	2	B1-7-34
3		3		3		3		3		3		3		3		3	
4		4		4	B1-7-23	4	B1-7-19	4	B1-7-15	4	B1-7-11	4	B1-7-7	4	B1-7-3	4	B1-7-36
12		12		12		12		12		12		12		12		12	
11		11		11		11		11		11		11		11		11	
13		13		13		13		13		13		13		13		13	
22		22		22	B1-1-30	22	B1-1-28	22	B1-1-26	22	B1-1-24	22	B1-1-22	22	B1-1-20	22	B1-1-18
21		21		21	B1-1-29	21	B1-1-27	21	B1-1-25	21	B1-1-23	21	B1-1-21	21	B1-1-19	21	B1-1-17
23		23		23	B1-2-29	23	B1-2-27	23	B1-2-25	23	B1-2-23	23	B1-2-21	23	B1-2-19	23	B1-2-17
32		32		32		32		32		32		32		32		32	
31		31		31		31		31		31		31		31		31	
33		33		33		33		33		33		33		33		33	
42		42		42		42		42		42		42		42		42	
41		41		41		41		41		41		41		41		41	
43		43		43		43		43		43		43		43		43	
52		52		52		52		52		52		52		52		52	
51		51		51		51		51		51		51		51		51	
53		53		53		53		53		53		53		53		53	
62		62		62		62		62		62		62		62		62	
61		61		61		61		61		61		61		61		61	
63		63		63		63		63		63		63		63		63	
72		72		72		72		72		72		72		72		72	
71		71		71		71		71		71		71		71		71	
73		73		73		73		73		73		73		73		73	
82		82		82		82		82		82		82		82		82	
81		81		81		81		81		81		81		81		81	
83		83		83		83		83		83		83		83		83	

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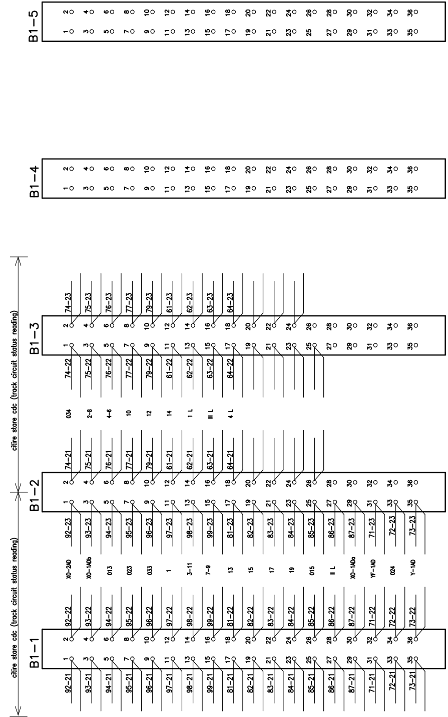
RANDUL 9

	9		8		7		6		5		4
Nr. crt.	7-9-Si	Nr. crt.	3-11-Si	Nr. crt.	1-Si	Nr. crt.	033-C	Nr. crt.	023-C	Nr. crt.	013-C
1		1		1		1		1		1	
2	B1-7-30	2	B1-7-26	2	B1-7-22	2	B1-7-18	2	B1-7-14	2	B1-7-10
3		3		3		3		3		3	
4	B1-7-32	4	B1-7-28	4	B1-7-24	4	B1-7-20	4	B1-7-16	4	B1-7-12
12		12		12		12		12		12	
11		11		11		11		11		11	
13		13		13		13		13		13	
22	B1-1-16	22	B1-1-14	22	B1-1-12	22	B1-1-10	22	B1-1-8	22	B1-1-6
21	B1-1-15	21	B1-1-13	21	B1-1-11	21	B1-1-9	21	B1-1-7	21	B1-1-5
23	B1-2-15	23	B1-2-13	23	B1-2-11	23	B1-2-9	23	B1-2-7	23	B1-2-5
32		32		32		32		32		32	
31		31		31		31		31		31	
33		33		33		33		33		33	
42		42		42		42		42		42	
41		41		41		41		41		41	
43		43		43		43		43		43	
52		52		52		52		52		52	
51		51		51		51		51		51	
53		53		53		53		53		53	
62		62		62		62		62		62	
61		61		61		61		61		61	
63		63		63		63		63		63	
72		72		72		72		72		72	
71		71		71		71		71		71	
73		73		73		73		73		73	
82		82		82		82		82		82	
81		81		81		81		81		81	
83		83		83		83		83		83	

	3		2		1
Nr. crt.	XO-1ADb	Nr. crt.	XO-2AD	Nr. crt.	
1		1		1	
2	B1-7-6	2	B1-7-2	2	
3		3		3	
4	B1-7-8	4	B1-7-4	4	
12		12		12	
11		11		11	
13		13		13	
22	B1-1-4	22	B1-1-2	22	
21	B1-1-3	21	B1-1-1	21	
23	B1-2-3	23	B1-2-1	23	
32		32		32	
31		31		31	
33		33		33	
42		42		42	
41		41		41	
43		43		43	
52		52		52	
51		51		51	
53		53		53	
62		62		62	
61		61		61	
63		63		63	
72		72		72	
71		71		71	
73		73		73	
82		82		82	
81		81		81	
83		83		83	

B1-9

ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.


B1-5
B1-4
B1-3
B1-2
B1-1
citire stare cdc (track circuit status reading)
citire stare cdc (track circuit status reading)
92-21
93-21
94-21
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84-22
85-22
86-22
87-22
71-22
72-22
73-22
XO-2AD
XO-1ADb
013
023
033
1
3-11
7-9
13
15
17
19
015
II L
XO-1ADa
YF-1AD
024
Y-1AD
92-23
93-23
94-23
95-23
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99-23
81-23
82-23
83-23
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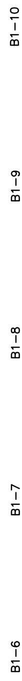
ESTE INTERZISA MODIFICAREA, INSTRAINAREA, COPIEREA SI MULTIPLICAREA ACESTOR SCHEME ELECTRICE SUB FORMA TIPARITA SAU ELECTRONICA, FARA APROBAREA SCRISA A AREX, CARE ARE DREPTUL DE PROPRIETATE INTELECTUALA ASUPRA ACESTORA
AREX ISI REZERVA DREPTUL DE A MODIFICA ACESTE SCHEME ELECTRICE ATUNCI CAND ESTE NECESAR.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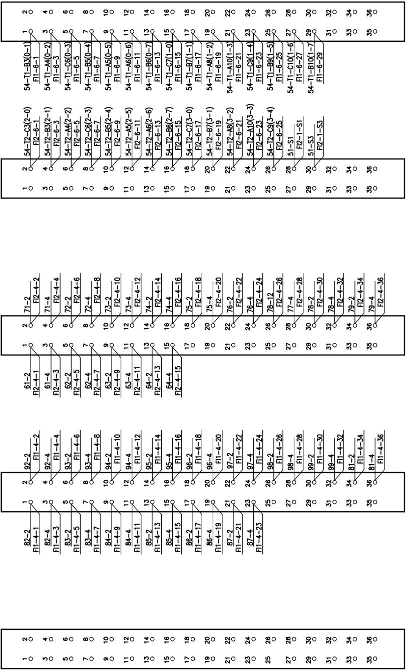
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54-T1-A4(0-2)
FI1-6-3
54-T1-C6(0-3)
FI1-6-5
54-T1-B5(0-4)
FI1-6-7
54-T1-A5(0-5)
FI1-6-9
54-T1-A6(0-6)
FI1-6-11
54-T1-B6(0-7)
FI1-6-13
54-T1-C7(1-0)
FI1-6-15
54-T1-B7(1-1)
FI1-6-17
54-T1-A8(1-2)
FI1-6-19
54-T1-A10(1-3)
FI1-6-21
54-T1-C9(1-4)
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FI1-6-25
54-T1-C10(1-6)
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54-T2-C6(2-3)
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