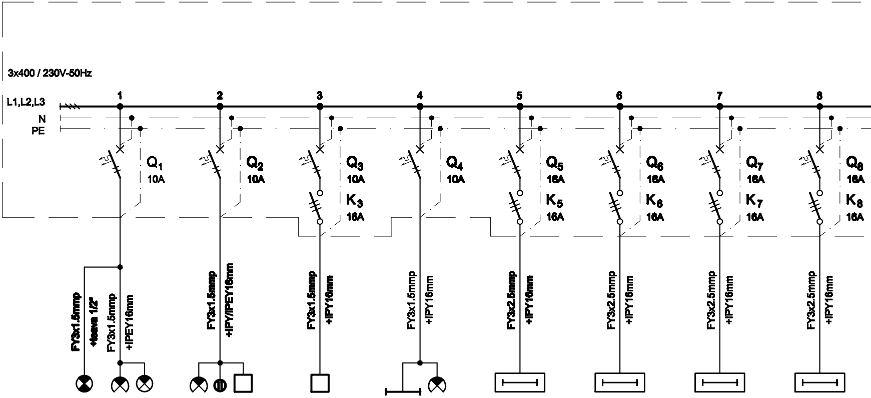
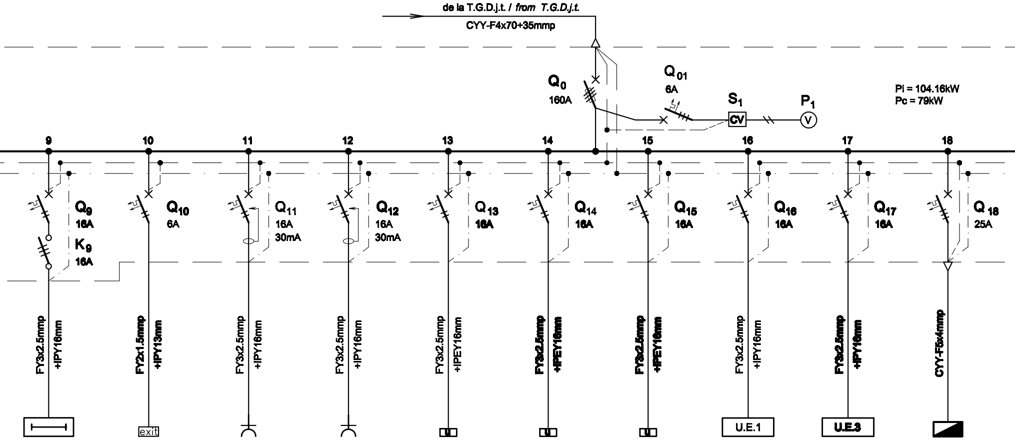
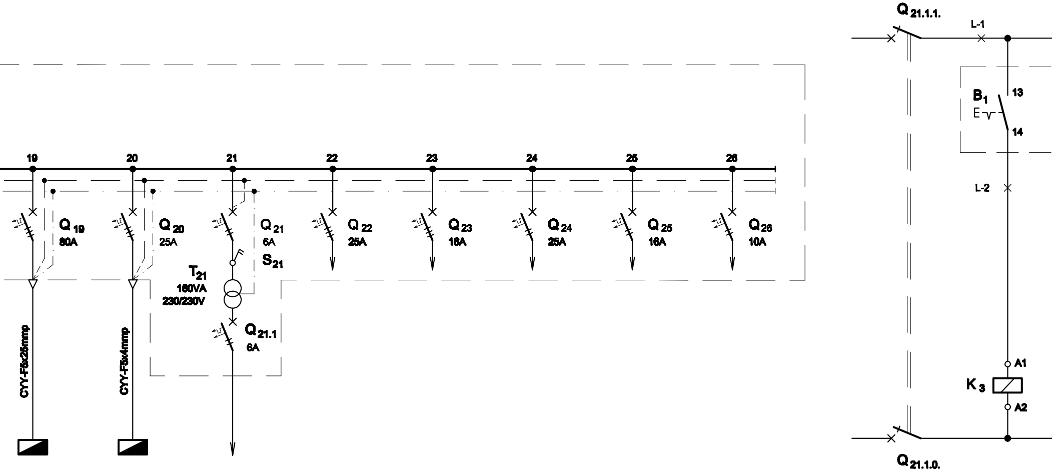
TABLOU ELECTRIC GENERAL T.G. - SCHEMA MONOFILARA
T.G. GENERAL ELECTRIC BOARD - SINGLE-WIRE DIAGRAM


3x400 / 230V-50Hz
L1,L2,L3
N
PE
1
2
3
4
5
6
7
8
Q_1
10A
Q_2
10A
Q_3
10A
K_3
16A
Q_4
10A
Q_5
16A
K_5
16A
Q_6
16A
K_6
16A
Q_7
16A
K_7
16A
Q_8
16A
K_8
16A
FY3x1.5mmp
+teava 1/2"
FY3x1.5mmp
+IPEY16mm
FY3x1.5mmp
+IPY/IPEY16mm
FY3x1.5mmp
+IPY16mm
FY3x1.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm

Nr. circuit *Circuit number*	1	2	3	4	5	6	7	8
Pi [kW]	0.92	0.94	0.4	0.26	2	1.5	1.5	1.5
Destinatia *Destination*	SALA ACUMULATORI, APA DISTILATA, HOL ***BATTERY ROOM, DISTILLED WATER, HALL*** **10LL / *Lamps***	**GRUP SANITAR, GRUP SANITAR PERS. CU DIZAB.+MAMA SI COPILUL, DISTRICT "L" 6 APATA, BIROU MISCARE** *SANITARY GROUP, SANITARY GROUP FOR THE DISABLED+MOTHER AND CHILD,"L6 APATA" DISTRICT, OFFICE* **14LL / *Lamps***	**SALA ASTEPTARE, HOL** ***WAITING ROOM, HALL*** **4LL / *Lamps***	**CASA SCARII** *STAIRCASE HALL* **3LL / *Lamps***	PICTOGRAME ***PICTOGRAM*** **10Buc. / *Pieces***	**PICTOGRAMA** ***PICTOGRAM*** **1Buc. / *Piece***	PICTOGRAMA ***PICTOGRAM*** **1Buc. / *Piece***	PICTOGRAMA ***PICTOGRAM*** **1Buc. / *Piece***


de la T.G.D.j.t. / *from T.G.D.j.t.*
CYY-F4x70+35mmp
Q0
160A
Q01
6A
S1
CV
P1
V
Pi = 104.16kW
Pc = 79kW
9
10
11
12
13
14
15
16
17
18
Q9
16A
K9
16A
Q10
6A
Q11
16A
30mA
Q12
16A
30mA
Q13
16A
Q14
16A
Q15
16A
Q16
16A
Q17
16A
Q18
25A
FY3x2.5mmp
+IPY16mm
FY2x1.5mmp
+IPY13mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPEY16mm
FY3x2.5mmp
+IPEY16mm
FY3x2.5mmp
+IPEY16mm
FY3x2.5mmp
+IPY16mm
FY3x2.5mmp
+IPY16mm
CYY-F5x4mmp
exit
U.E.1
U.E.3

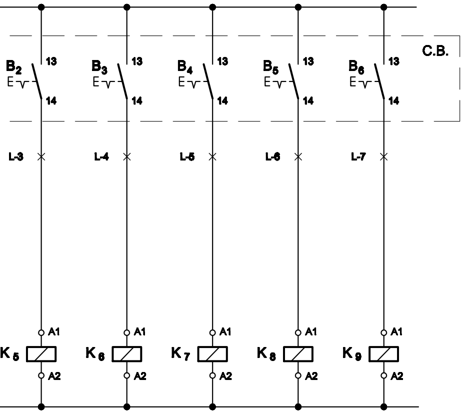
9	10	11	12	13	14	15	16	17	18
1.5	0.06	2	2	2	2	2	2	2	7.4
PICTOGRAMA *PICTOGRAM* 1Buc. / *Piece*	ILUMINAT DE SIGURANTA *EMERGENCY LIGHTING* 5Buc. / *Pieces*	DISTRICT "L" 6 APATA, BIROU MISCARE, HOL *"L6 APATA" DISTRICT, OFFICE, HALL* 4LP / *Sockets outlet*	BIROU MISCARE, CASIERIE, SALA ASTEPTARE *OFFICE, CASH OFFICE, WAITING ROOM* 5LP / *Sockets outlet*	USCATOR DE MAINI *HAND DRYER* 1Buc. / *Piece*	USCATOR DE MAINI *HAND DRYER* 1Buc. / *Piece*	USCATOR DE MAINI *HAND DRYER* 1Buc. / *Piece*	UNITATE EXTERIOARA DE CLIMATIZARE SISTEM MONOSPLIT *OUTDOOR UNIT AIR CONDITIONING SYSTEM MONOSPLIT* 1Buc. / *Piece*	UNITATE EXTERIOARA DE CLIMATIZARE SISTEM MONOSPLIT *OUTDOOR UNIT AIR CONDITIONING SYSTEM MONOSPLIT* 1Buc. / *Piece*	SPATIU COMERCIAL TABLOU ELECTRIC - T Sp.com. *COMMERCIAL AREA ELECTRIC BOARD - T Sp.com.*


Q 21.1.1.
L-1
B1
13
14
L-2
A1
K 3
A2
Q 21.1.0.
19
20
21
22
23
24
25
26
Q 19
80A
Q 20
25A
Q 21
6A
S21
Q 22
25A
Q 23
16A
Q 24
25A
Q 25
16A
Q 26
10A
T21
160VA
230/230V
Q 21.1
6A
CYY-F5x25mmp
CYY-F5x4mmp

19	20	21	22	23	24	25	26
45.2	13.8	0.16	4	3	3	2	1
CENTRALA TERMICA TABLOU ELECTRIC - T C.T. *THERMIC POWER UNIT ELECTRIC BOARD - T C.T.*	APARTAMENT TABLOU ELECTRIC - T Ap. *APARTMENT ELECTRIC BOARD - T Ap.*	CIRCUIT COMANDA ILUMINAT INTERIOR *COMMAND CIRCUIT INDOOR LIGHTING*	REZERVA TRIFAZATA *THREE-PHASE RESERVE*	REZERVA TRIFAZATA *THREE-PHASE RESERVE*	REZERVA MONOFAZATA *SINGLE-PHASE RESERVE*	REZERVA MONOFAZATA *SINGLE-PHASE RESERVE*	REZERVA MONOFAZATA *SINGLE-PHASE RESERVE*

PROTECTIE CIRCUIT DE COMANDA *PROTECTION OF THE COMMAND CIRCUIT*	COMANDA ILUMINAT HOL CENTRAL / SALA ASTEPTARE *LIGHTING COMMAND WAITING ROOM*

TABLOU ELECTRIC GENERAL T.G.
T.G. GENERAL ELECTRIC BOARD


C.B.
B2
B3
B4
B5
B6
E
13
14
L-3
L-4
L-5
L-6
L-7
A1
A2
K5
K6
K7
K8
K9

COMANDA APRINDERE STINGERE PICTOGRAME ***ON-OFF COMMAND OF THE PICTOGRAMS***	COMANDA APRINDERE STINGERE PICTOGRAME ***ON-OFF COMMAND OF THE PICTOGRAMS***	COMANDA APRINDERE STINGERE PICTOGRAME *ON-OFF COMMAND OF THE PICTOGRAMS*	COMANDA APRINDERE STINGERE PICTOGRAME *ON-OFF COMMAND OF THE PICTOGRAMS*	COMANDA APRINDERE STINGERE PICTOGRAME *ON-OFF COMMAND OF THE PICTOGRAMS*

Nr. *No.*	Simbol *Symbol*	Denumirea aparatului *Equipment denomination*	Caracteristici tehnice *Technical data*	Buc. *Pcs.*	Observatii *Remarks*
0	1	2	3	4	5
1	**Q0**	**Separator de sarcina tripolar cu fuzibil / *Three-poles switch-disconnector with fusible***	In=160A Un=400V Uimp=8kV f=50Hz Icm=2.2kA	1	
2	**Q1,...,Q4,Q26**	**Intrerupator automat bipolar, curba B** ***Two-poles circuit breaker, curve B***	In=10A Un=230V Icu=6kA f=50Hz	5	
3	**Q11,Q12**	**Intrerupator automat bipolar cu protectie la curent diferential rezidual, curba C / *Two-poles circuit breaker with protection at residual differential current device, curve C***	In=16A Un=230V Icu=6kA f=50Hz IΔn=0,03A Tip A Nivel de imunitate 250A la forma de unda 8/20 µS *Level of immunity 250A to wave form 8/20µS*	2	
4	Q10	Intrerupator automat bipolar, curba B *Two-poles circuit breaker, curve B*	In=6A Un=230V Icu=6kA f=50Hz	1	
5	**Q13,Q14,Q15, Q16,Q17,Q25**	**Intrerupator automat bipolar, curba C** ***Two-poles circuit breaker, curve C***	In=16A Un=230V Icu=6kA f=50Hz	6	
6	Q18,Q20,Q22	**Intrerupator automat tripolar, curba C** ***Three-poles circuit breaker, curve C***	In=25A Un=400V Icu=6kA f=50Hz	3	
7	**Q23**	**Intrerupator automat tripolar, curba C** ***Three-poles circuit breaker, curve C***	In=16A Un=400V Icu=6kA f=50Hz	1	
8	**Q24**	**Intrerupator automat bipolar, curba C** *Two-poles circuit breaker, curve C*	**In=25A** **Un=230V** **Icu=6kA** **f=50Hz**	1	
9	Q01	Intrerupator automat tripolar, constructie modulara, curba C *Three-poles circuit breaker, modular construction, curve C*	In=6A Un=400V Icu=25kA f=50Hz	1	

. - SPECIFICATIE DE APARATAJ
- EQUIPMENT SPECIFICATION

0	1	2	3	4	5
10	Q5,Q6,Q7,Q8,Q9	Intrerupator automat bipolar, curba B *Two-poles circuit breaker, curve B*	In=16A Un=230V Icu=6kA f=50Hz	5	
11	Q19	Intrerupator automat tripolar, curba C *Three-poles circuit breaker, curve C*	In=80A Un=400V Icu=6kA f=50Hz	2	
12	**P1**	**Voltmetru feromagnetic** ***Ferromagnetic voltmeter***	**Domeniu / *Range*** **0...600 V**	1	
13	**S1**	**Comutator voltmetric** ***Voltmetric switch***	**In=10A** **Un=500Vca** **f=50Hz**	1	
14	K3,K5,K6, K7,K8,K9	Contactor electromagnetic tripolar de curent alternativ / *Three-poles electromagnetic a.c. contactor*	In=16A Un=400A Uc=230V f=50Hz	6	
15	Q21,Q21.1	Intrerupatoare automate bipolare, curba D / *Two-poles circuit breaker, curve D*	In=6A Un=230V f=50Hz Icu=10kA	2	
16	T21	Transformator monofazat uscat de comanda / *Single-phase dry-type command transformer*	Sn=160VA U1n=230V U2n=230V f=50Hz	1	
17	S21	Comutator cu came cu doua pozitii si un etaj / *Switch with cams having two-positions and a floor*	Un=500V In=16A f=50Hz	1	
18	B1,B2,B3, B4,B5,B6	Butoane de comanda luminoase cu retinere / *Light command buttons with retainer*	Ui=500V In=6A f=50Hz IP67	6	Butoanele se vor monta in C.B. (cutia cu butoane) *Buttons will be installed in C.B.(box of buttons)*
19	L	Cleme de racordare *Connection clamps*	Un=660V In=16A f=50Hz	7	
20	-	Cutie / *Box*	IP30, Clasa I / *Class I*	1	

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	12.2011	
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli	12.2011	
Verificat Checked	Expert Verificator Checking Expert	G. Fioravanti	12.2011	

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	12.2011	
Întocmit Elaborated	Proiectant Designer	D. Matei	12.2011	

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

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

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

Denumire desen / Drawing Title :

Tablou electric general T.G. - Staţia Feldioara;
Feldioara station - T.G. general electric board

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr. / No 01 / 01

E A 5 1 0 1 E 0 7 B X I E 0 0 3 1 0 4 3 1

A3(297x1890)