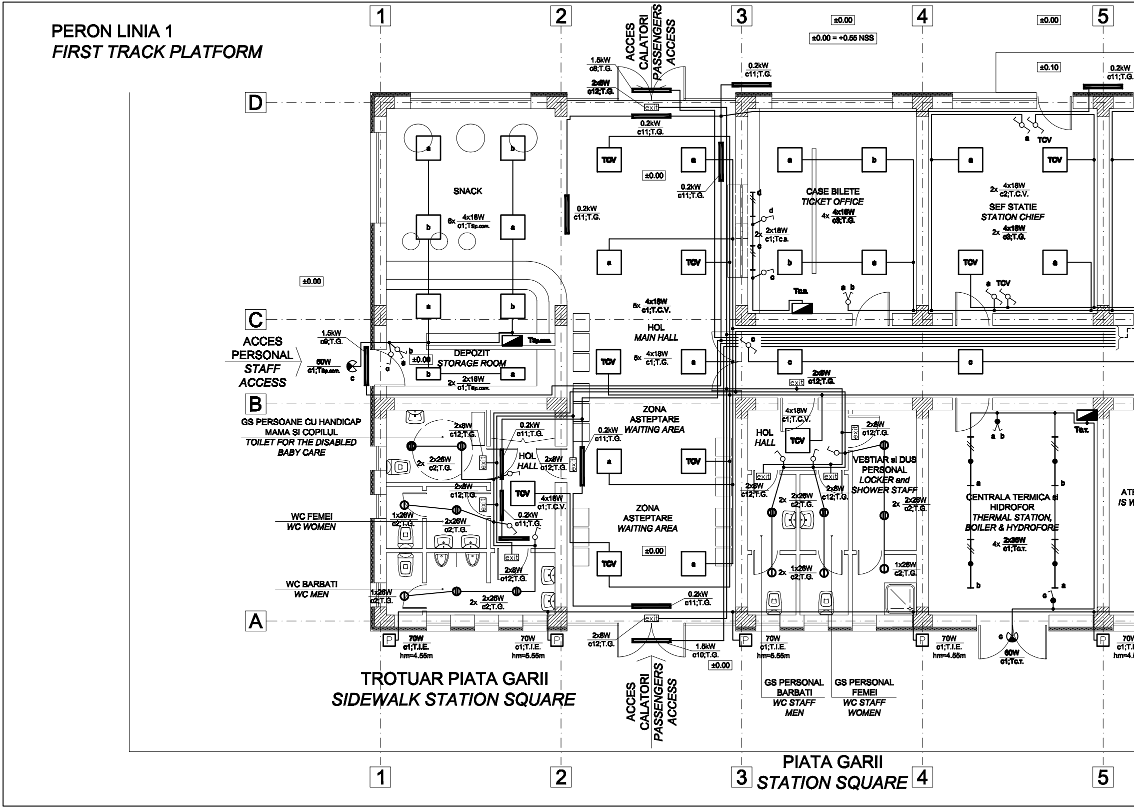
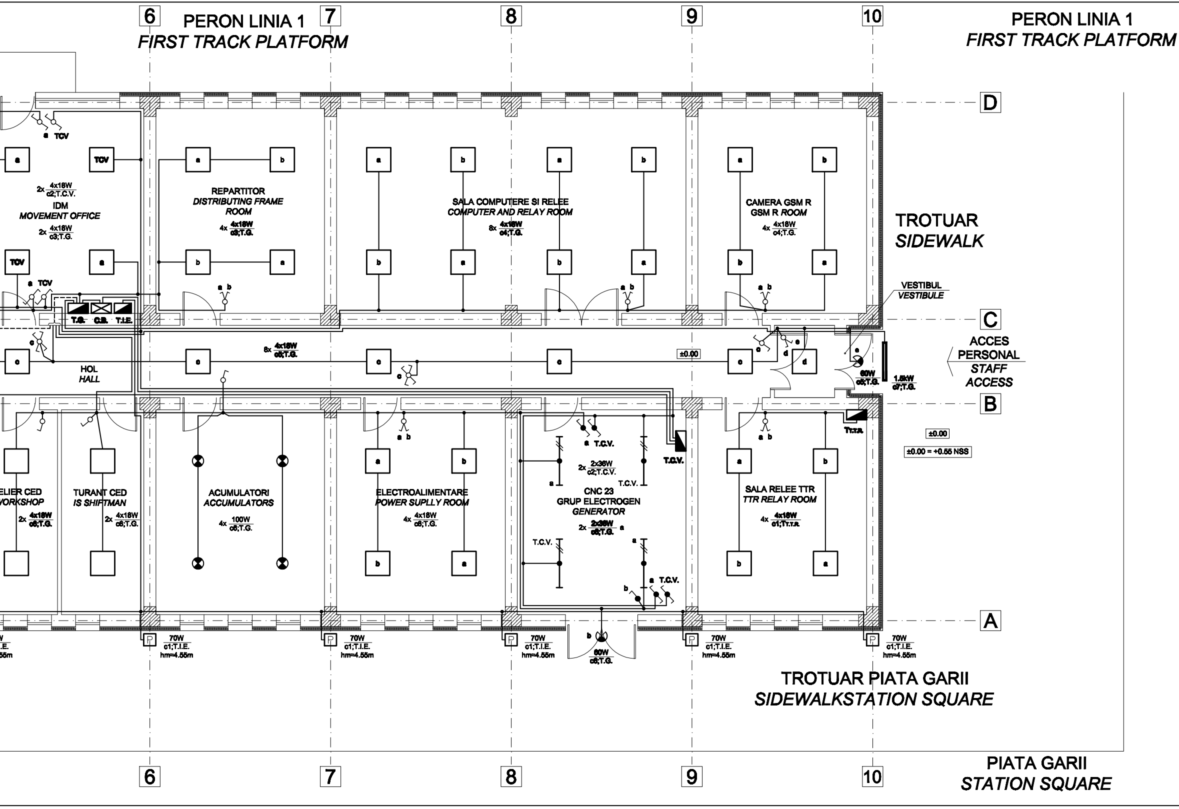
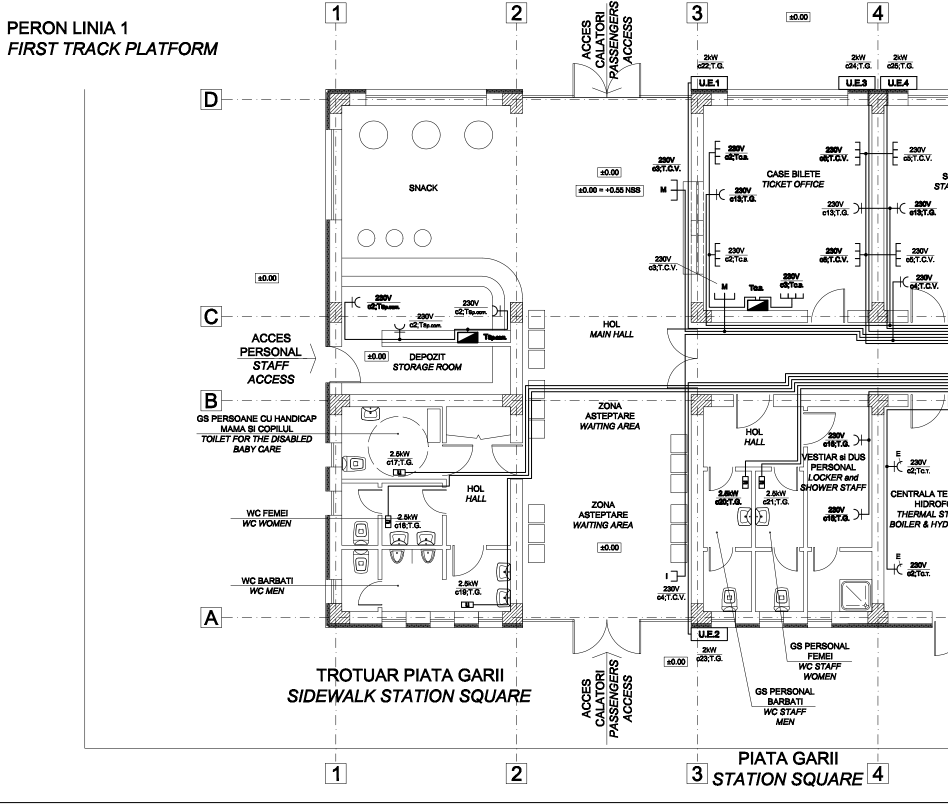

PERON LINIA 1
FIRST TRACK PLATFORM
1
2
3
4
5
D
C
B
A
±0.00
±0.00 = +0.55 NSS
±0.10
ACCES CALATORI
PASSENGERS ACCESS
1.5kW c8;T.G.
2x8W c12;T.G.
exit
0.2kW c11;T.G.
SNACK
6x 4x18W c1;Tsp.com.
TCV
HOL
MAIN HALL
5x 4x18W c1;T.C.V.
5x 4x18W c1;T.G.
CASE BILETE
TICKET OFFICE
4x 4x18W c3;T.G.
2x 2x18W c1;Tc.s.
Tc.s.
SEF STATIE
STATION CHIEF
2x 4x18W c2;T.C.V.
2x 4x18W c3;T.G.
DEPOZIT
STORAGE ROOM
2x 2x18W c1;Tsp.com.
Tsp.com.
ACCES PERSONAL
STAFF ACCESS
1.5kW c9;T.G.
60W c1;Tsp.com.
GS PERSOANE CU HANDICAP
MAMA SI COPILUL
TOILET FOR THE DISABLED
BABY CARE
2x8W c12;T.G.
2x 2x26W c2;T.G.
HOL
HALL
4x18W c1;T.C.V.
WC FEMEI
WC WOMEN
1x26W c2;T.G.
2x26W c2;T.G.
WC BARBATI
WC MEN
2x 2x26W c2;T.G.
ZONA ASTEPTARE
WAITING AREA
VESTIAR si DUS PERSONAL
LOCKER and SHOWER STAFF
CENTRALA TERMICA si HIDROFOR
THERMAL STATION, BOILER & HYDROFORE
4x 2x36W c1;Tc.т.
Tc.т.
60W c1;Tc.т.
1x26W c2;T.G.
70W c1;T.I.E. hm=4.55m
70W c1;T.I.E. hm=5.55m
1.5kW c10;T.G.
P
TROTUAR PIATA GARII
SIDEWALK STATION SQUARE
GS PERSONAL BARBATI
WC STAFF MEN
GS PERSONAL FEMEI
WC STAFF WOMEN
PIATA GARII
STATION SQUARE
ATE
IS W


PERON LINIA 1
FIRST TRACK PLATFORM
PERON LINIA 1
FIRST TRACK PLATFORM
6
7
8
9
10
D
C
B
A
2x 4x18W c2;T.C.V.
IDM
MOVEMENT OFFICE
2x 4x18W c3;T.G.
TCV
a TCV
REPARTITOR
DISTRIBUTING FRAME ROOM
4x 4x18W c3;T.G.
SALA COMPUTERE SI RELEE
COMPUTER AND RELAY ROOM
8x 4x18W c4;T.G.
CAMERA GSM R
GSM R ROOM
4x 4x18W c4;T.G.
TROTUAR
SIDEWALK
VESTIBUL
VESTIBULE
T.G.
C.B.
T.I.E.
HOL
HALL
8x 4x18W c5;T.G.
±0.00
60W c5;T.G.
1.5kW c7;T.G.
ACCES PERSONAL
STAFF ACCESS
ELIER CED
WORKSHOP
2x 4x18W c6;T.G.
TURANT CED
IS SHIFTMAN
2x 4x18W c6;T.G.
ACUMULATORI
ACCUMULATORS
4x 100W c6;T.G.
ELECTROALIMENTARE
POWER SUPLLY ROOM
4x 4x18W c6;T.G.
a T.C.V.
2x 2x36W c2;T.C.V.
T.C.V.
CNC 23
GRUP ELECTROGEN
GENERATOR
2x 2x36W c6;T.G.
T.C.V.
a T.C.V.
T.C.V.
SALA RELEE TTR
TTR RELAY ROOM
4x 4x18W c1;Tr.T.R.
Tr.T.R.
±0.00
±0.00 = +0.55 NSS
70W c1;T.I.E. hm=4.55m
70W c1;T.I.E. hm=4.55m
70W c1;T.I.E. hm=4.55m
70W c1;T.I.E. hm=4.55m
70W c1;T.I.E. hm=4.55m
60W c6;T.G.
TROTUAR PIATA GARII
SIDEWALKSTATION SQUARE
PIATA GARII
STATION SQUARE


PERON LINIA 1
FIRST TRACK PLATFORM
1
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±0.00
ACCES CALATORI
PASSENGERS ACCESS
2kW c22;T.G.
2kW c24;T.G.
2kW c25;T.G.
U.E.1
U.E.3
U.E.4
D
C
B
A
SNACK
230V c3;T.C.V.
±0.00
±0.00 = +0.55 NSS
M
230V c2;Tc.a.
230V c13;T.G.
CASE BILETE
TICKET OFFICE
230V c6;T.C.V.
230V c13;T.G.
230V c5;T.C.V.
230V c13;T.G.
230V c2;Tc.a.
230V c6;T.C.V.
230V c5;T.C.V.
230V c3;T.C.V.
M
Tc.a.
230V c8;Tc.a.
230V c4;T.C.V.
±0.00
230V c2;Tsp.com.
230V c2;Tsp.com.
230V c2;Tsp.com.
Tsp.com.
HOL
MAIN HALL
ACCES PERSONAL
STAFF ACCESS
±0.00
DEPOZIT
STORAGE ROOM
GS PERSOANE CU HANDICAP
MAMA SI COPILUL
TOILET FOR THE DISABLED
BABY CARE
2.5kW c17;T.G.
ZONA ASTEPTARE
WAITING AREA
HOL
HALL
230V c16;T.G.
VESTIAR si DUS PERSONAL
LOCKER and SHOWER STAFF
E
230V c2;Tc.T.
WC FEMEI
WC WOMEN
2.5kW c18;T.G.
HOL
HALL
ZONA ASTEPTARE
WAITING AREA
2.5kW c20;T.G.
2.5kW c21;T.G.
230V c16;T.G.
CENTRALA TE
HIDROFO
THERMAL ST
BOILER & HYD
±0.00
WC BARBATI
WC MEN
2.5kW c19;T.G.
I
230V c4;T.C.V.
E
230V c2;Tc.T.
U.E.2
2kW c23;T.G.
±0.00
GS PERSONAL FEMEI
WC STAFF WOMEN
GS PERSONAL BARBATI
WC STAFF MEN
TROTUAR PIATA GARII
SIDEWALK STATION SQUARE
ACCES CALATORI
PASSENGERS ACCESS
PIATA GARII
STATION SQUARE
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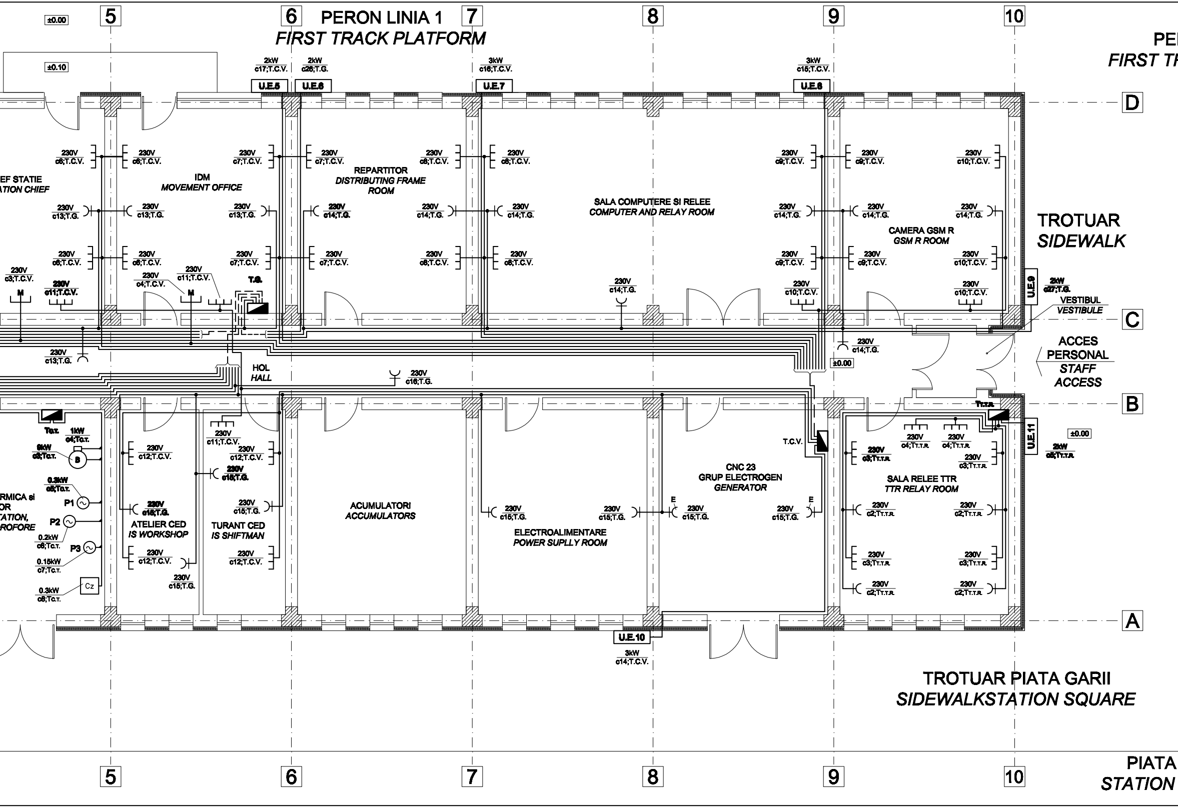
PERON LINIA 1
FIRST TRACK PLATFORM
PE
FIRST TR
±0.00
±0.10
5
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D
C
B
A
2kW c17;T.C.V.
2kW c26;T.G.
3kW c16;T.C.V.
3kW c15;T.C.V.
U.E.5
U.E.6
U.E.7
U.E.8
U.E.9
U.E.10
U.E.11
2kW c27;T.G.
3kW c14;T.C.V.
2kW c5;TT.T.R.
EF STATIE
ATION CHIEF
IDM
MOVEMENT OFFICE
REPARTITOR
DISTRIBUTING FRAME ROOM
SALA COMPUTERE SI RELEE
COMPUTER AND RELAY ROOM
CAMERA GSM R
GSM R ROOM
TROTUAR
SIDEWALK
VESTIBUL
VESTIBULE
ACCES PERSONAL
STAFF ACCESS
HOL
HALL
T.G.
T.C.V.
TC.T.
TT.T.R.
RMICA si
OR
TATION,
ROFORE
ATELIER CED
IS WORKSHOP
TURANT CED
IS SHIFTMAN
ACUMULATORI
ACCUMULATORS
ELECTROALIMENTARE
POWER SUPLLY ROOM
CNC 23
GRUP ELECTROGEN
GENERATOR
SALA RELEE TTR
TTR RELAY ROOM
1kW c4;TC.T.
9kW c3;TC.T.
0.3kW c5;TC.T.
0.2kW c6;TC.T.
0.15kW c7;TC.T.
0.3kW c8;TC.T.
P1
P2
P3
B
Cz
M
E
230V c3;T.C.V.
230V c11;T.C.V.
230V c4;T.C.V.
230V c6;T.C.V.
230V c7;T.C.V.
230V c8;T.C.V.
230V c9;T.C.V.
230V c10;T.C.V.
230V c12;T.C.V.
230V c13;T.G.
230V c14;T.G.
230V c15;T.G.
230V c16;T.G.
230V c2;TT.T.R.
230V c3;TT.T.R.
230V c4;TT.T.R.
TROTUAR PIATA GARII
SIDEWALKSTATION SQUARE
PIATA
STATION

RON LINIA 1
*RACK PLATFORM*

GARII
*SQUARE*

## LEGENDA / *LEGEND:*

| | |
|---|---|
| ☐ | - Corp de iluminat pentru plafon fals cu balast electronic HF-P, echipat cu lampi tubulare fluorescente 4x18W, 230V, 50Hz, clasa I, IP40<br>*Lighting unit for false ceiling with electronic ballast HF-P, equipped with fluorescent tubular lamps 4x18W, 230V, 50Hz, class I, IP40* |
| ▭ | - Corp de iluminat pentru plafon fals cu balast electronic HF-P, echipat cu lampi tubulare fluorescente 2x18W, 230V, 50Hz, clasa I, IP40<br>*Lighting unit for false ceiling with electronic ballast HF-P, equipped with fluorescent tubular lamps 2x18W, 230V, 50Hz, class I, IP40* |
| ├────//┤ | - Corp de iluminat cu balast electronic HF-P si gratar, echipat cu lampi tubulare fluorescente 2x36W, 230V, 50Hz, clasa I, IP20<br>*Lighting unit with electronic ballast HF-P and grill, equipped with fluorescent tubular lamps 2x36W, 230V, 50Hz, class I, IP20* |
| ├──●──//┤ | - Corp de iluminat cu balast electronic HF-P, echipat cu lampi tubulare fluorescente 2x36W, 230V, 50Hz, clasa I, IP65<br>*Lighting unit with electronic ballast HF-P, equipped with fluorescent tubular lamps 2x36W, 230V, 50Hz, class I, IP65* |
| ├─//┤ | - Corp de iluminat cu balast electronic HF-P si gratar, echipat cu lampi tubulare fluorescente 2x18W, 230V, 50Hz, clasa I, IP20<br>*Lighting unit with electronic ballast HF-P and grill, equipped with fluorescent tubular lamps 2x18W, 230V, 50Hz, class I, IP20* |
| ├●//┤ | - Corp de iluminat cu balast electronic HF-P si gratar, echipat cu lampi tubulare fluorescente 2x18W, 230V, 50Hz, clasa I, IP 65<br>*Lighting unit with electronic ballast HF-P and grill, equipped with fluorescent tubular lamps 2x18W, 230V, 50Hz, class I, IP 65* |
| ⦶ | - Corp de iluminat pentru plafon fals cu balast electronic HF-P, echipat cu lampi fluocompacte 1x26W, 230V, 50Hz, clasa I, IP44<br>*Lighting unit for false ceiling with electronic ballast HF-P, equipped with fluocompacte lamps 1x26W, 230V, 50Hz, class I, IP44* |
| ⦷ | - Corp de iluminat pentru plafon fals cu balast electronic HF-P, echipat cu lampi fluocompacte 2x26W, 230V, 50Hz, clasa I, IP44<br>*Lighting unit for false ceiling with electronic ballast HF-P, equipped with fluocompacte lamps 2x26W, 230V, 50Hz, class I, IP44* |
| ⊗ | - Corp de iluminat tip aplica, echipat cu lampa incandescenta 60W, 230V, 50Hz, clasa I, IP54<br>*Lighting unit type bracket, equipped with incandescent lamp 60W, 230V, 50Hz, class I, IP54* |
| ⨂ | - Corp de iluminat pentru mediu exploziv, echipat cu lampa incandescenta 100W, 230V, 50Hz, clasa I, IP54<br>*Lighting unit for explosion-proof, equipped with incandescent lamp 100W, 230V, 50Hz, class I, IP54* |
| exit | - Corp de iluminat tip luminobloc 2x8W, iluminat permanent, cu autonomie de trei ore, 230V, 50Hz, clasa II, IP42<br>*Lighting unit type luminobloc 2x8W, permanent lighting, three-hour autonomy, 230V, 50Hz, class II, IP42* |
| ▬ | - Pictograma / *Pictogram* |
| P | - Corp de iluminat tip proiector cu reflector asimetric, echipat cu lampi cu vapori de sodiu, 70W, 230V, 50Hz, clasa I, IP66<br>*Lighting unit type projector with asymmetric reflector, equipped with sodium vapor lamps, 70W, 230V, 50Hz, class I, IP66* |
| ⋎○ | - Comutator unipolar 250V, 10A<br>*Single change-over 250V, 10A* |
| ⋎● | - Comutator unipolar etans 250V, 10A<br>*Single tight change-over 250V, 10A* |
| ○⟋ | - Intrerupator unipolar 250V, 10A<br>*Single switch 250V, 10A* |
| ●⟋ | - Intrerupator unipolar etans 250V, 10A<br>*Single tight switch 250V, 10A* |
| ⟋○⟋ | - Intrerupator pentru scara 250V, 10A<br>*Stair switch 250A, 10A* |
| ⟋●⟋ | - Intrerupator pentru scara etans 250V, 10A<br>*Stair tight switch 250V, 10A* |
| ✕○ | - Intrerupator cruce 250V, 10A<br>*Cross switch 250V, 10A* |
| ⋎ | - Priza bipolara, cu contact de protectie 250V/16A<br>*Two-poles socket outlet, with protection contact 250V / 16A* |
| E ⋎ | - Priza bipolara etansa, cu contact de protectie 250V/16A<br>*Two-poles tight socket outlet, with protection contact 250V / 16A* |
| I ⊔ | - Priza de calculator bipolara, cu contact de protectie 250V/16A (pentru informatii)<br>*Two-poles computer socket outlet, with protection contact 250V / 16A (for information)* |
| M ⊔⊔ | - Priza de calculator bipolara dubla, cu contact de protectie 250V/16A (pentru monitor)<br>*Two-poles computer socket outlet dual,with protection contact 250V / 16A (for display)* |
| ⊔⊔⊔ | - Priza de calculator bipolara tripla, cu contact de protectie 250V/16A<br>*Two-poles computer socket outlet triple, with protection contact 250V / 16A* |
| U.E.1 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.2 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.3 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.4 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.5 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.6 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.7 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 3kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 3kW* |
| U.E.8 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 3kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 3kW* |
| U.E.9 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| U.E.10 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 3kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 3kW* |
| U.E.11 | - Unitate exterioara de climatizare sistem monosplit 230V, 50Hz, P= 2kW<br>*Outdoor unit air conditioning system monosplit 230V, 50Hz, P= 2kW* |
| ◫ | - Uscator de maini 230V, 50Hz, P=2.5kW / *Hand dryer 230V, 50Hz, P=2.5kW* |
| Cz | - Cazan mural 230V, 50Hz, P=0.3kW / *Wall mounting boiler 230V, 50Hz, P=0.3kW* |
| Ⓑ | - Boiler electric 400V, 50Hz, P=6kW / *Electric boiler 400V, 50Hz, P=6kW* |
| P1 ⓢ | - Pompa circulatie agent termic pentru incalzire 230V, 50Hz, P=0.3kW<br>*Heat carrier circulation pump for heating 230V, 50Hz, P=0.3kW* |
| P2 ⓢ | - Pompa circulatie agent termic pentru boiler 230V, 50Hz, P=0.2kW<br>*Heat carrier circulation pump for boiler 230V, 50Hz, P=0.2kW* |
| P3 ⓢ | - Pompa injectie cazan 230V, 50Hz, P=0.15kW<br>*Injection pump for boiler 230V, 50Hz, P=0.15kW* |
| ▭ | - Statie completa de automatizare pentru sisteme solare 230V, 50Hz, P=1kW<br>*Compete automation station for solar systems* |
| ◪ | - Tablou electric / *Electric board* |
| C.B. ⊠ | - Cutie cu butoane / *Box of buttons* |

| D | | | | | |
|---|---|---|---|---|---|
| C | | | | | |
| B | | | | | |
| A | | | | | |
| Indice<br>Index | Data<br>Date | Modificare<br>Modification/Revision | Proiectant<br>Designer | Aprobat Consultant<br>Approved Consultant | Aprobat CFR<br>Approved CFR |

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

CFR

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<br>Date | Semnături<br>Signature |
|---|---|---|---|---|
| Aprobat<br>Approved | Șef proiect<br>Project manager | R. Liuzza | 12.2011 | |
| Aprobat<br>Approved | Coordonator Secțiune 1<br>Section 1 Coordinator | C. Gambelli | 12.2011 | |
| Verificat<br>Checked | Expert Verificator<br>Checking Expert | G. Fioravanti | 12.2011 | |

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

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

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

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

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

**Instalații electrice interioare clădire stație - Stația Vânători;**
**Vanatori station - Indoor wirings station building**

| Codificare / Codification System | Scara / Scale<br>1:50 | LOT / LOT | Nr. / No<br>01 / 01 |
|---|---|---|---|

E A 5 1 | 0 1 | C | 1 7 | P B | I E | 0 0 | 8 | 1 | 0 2 1 | 3

A2(420x2970)