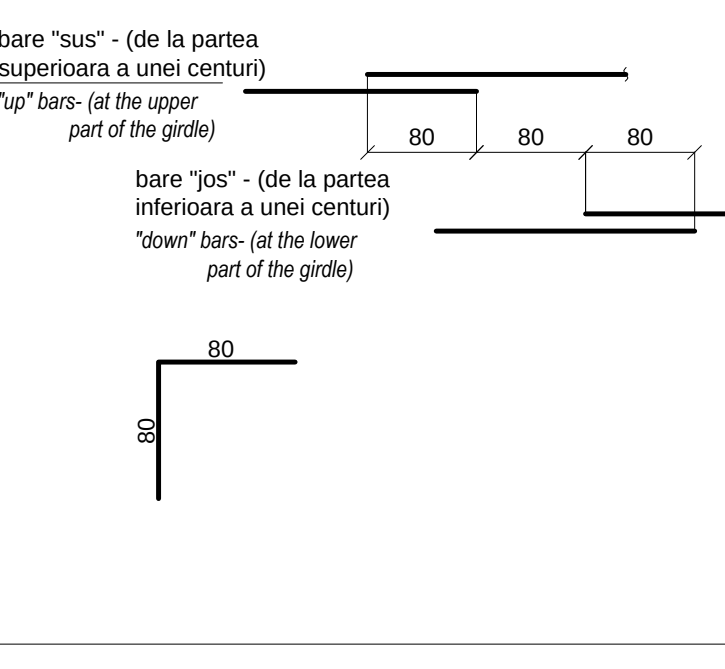
1-1
SCARA 1:25
pardoseala
floor
placa beton armat C12/15 -15cm Ø8/15 PC52
reinforced concrete slab C12/15 -15cm Ø8/15 PC52
straturi de hidroizolatii si termoizolatii
si strat de rupere capilaritate (vezi arhitectura)
waterproofing and insulations layers - see arhitectural plan
umplutura compactata
compacted filling
pamant natural
terrain
③10Ø12 PC52 PC52 centura global
②2Ø12 PC52 global
①18Ø12/20 PC52 global
⑥etr.Ø8/20 PC52 L=2.00m
⑦agr. Ø8/40 OB37 L=0.80m
④2Ø12/20 PC52 L=2.40m
⑤2Ø10/20 PC52 L=2.60m
6-6
SCARA 1:25
⑳Ø10/20 PC52 L=1.30m
Det.1
㉑Ø10/10 PC52 global
㉚Ø8/15 PC52 global
Canale de cabluri 30x30cm
Cables channels 30x30cm
7-7
Scara 1:25
10-10
SCARA 1:25
⑩2x4Ø16 PC52 global PC52
①Ø12/20 PC52 global
E
㉗2Ø12/20 PC52 L=2.90m
⑪etr.Ø8/40 PC52 L=2.50m
DET A
SCARA 1:25
DET B
SCARA 1:25
grinda 40x40
beam 40x40
⑫etr.Ø8/15 PC52 L=1.50m
㉝4Ø20 PC52 L=2.85m mustati stalp
㉞8Ø20 PC52 L=2.65m mustati stalpi
㉟8Ø20 PC52 L=2.35m mustati stalp
㊱4Ø20 PC52 L=2.55m mustati stalp
2-2
SCARA 1:25
pardoseala tehnologica
technological floor
sapa egalizare-5cm
equalization mortar -5cm
⑧4Ø16 PC52 PC52 global
vezi nota 1
Check note 1
⑨etr.Ø8/15 PC52 L=1.50m
⑩etr.Ø8/40 PC52 L=2.50m
⑪etr.Ø8/40 PC52
11-11
SCARA 1:25
①15Ø12/20 PC52 global
DET D
SCARA 1:25
⑭10Ø12 PC52 PC52 centura
①Ø12/20 PC52
Tabla striata Ts5 -P4
L 30x30x4 -P5
L 30x30x4 -P6 L=1047
L 30x30x4 -P7 L=508
L 30x30x4 -P5 L=800
860

3-3
SCARA 1:25
beton simplu C12/15
concrete C12/15
⑧2x4Ø16 PC52 PC52 global
9 - 9
SCARA 1:25
㉖14Ø12 PC52 L = 7.05 m
㉕2Ø10/20 PC52 L=2.00m
Platforma rezervor tampon 170x170x25cm
Thermal station platform 170x170x25cm
Scara 1:25
covor cauciuc - 2cm
rubber carpet -2cm
placa beton armat C12/15 -15cm Ø10/15 PC52
reinforced concrete slab C12/15 -15cm Ø10/15 PC52
㊲plasa/netting Ø8/15 PC52
⑭ Ø10/15/15 PC52 L=1.70m
⑬ Ø8/15cm PC52 L=0.60m pe contur / on contour
SCARA 1:25
Recipient de pardoseala 80x80x80cm
Container floor 80x80x80cm
4-4
Scara 1:25
⑪2x9Ø10/10 PC52 L=3.20m
Capac tabla striata
⑫9Ø8/10 PC52 L=3.75m
VEDERE LATERALA GOLURI PENTRU TEVI PVC
SCARA 1:25
8 tevi PVC Ø210mm
8 PVC pipes Ø210mm
2x4 tevi PVC Ø210mm gol 95x45
8 PVC pipes Ø210mm hole 95x45
8-8
SCARA 1:25
13 - 13
SCARA 1:25
㉙Ø10/10 PC52 L=1.95m
Detaliu capac tabla striata pentru canal cabluri
Scara 1:10
Tabla striata Ts5 -P2
Tabla striata Ts5 -P9
L 30x30x4 -P3
L 30x30x4 -P3 l=500
Platforma grup electrogen 440x177x20cm
Generator platform 440x177x20cm
DET.F
Scara 1:25
㉒Ø10/15 PC52 L=4.40m
㉓Ø10/15 PC52 L=1.80m
㉔ Ø8/15cm PC52 L=0.55m pe contur / on contour line
Cuva lift 2.05m x2.00m
Elevator shaft 2.05x2.00m
5 - 5
Scara 1:25
placa beton armat C12/15 -10cm Ø8/15 PC52
reinforced concrete slab C12/15 -10cm Ø8/15 PC52
strat rupere capilaritate - pietris ciuruit
gravel layer
③8Ø12 PC52 PC52 centura global
⑮(⑯) 2Ø10/20 PC52 L=2.85m (L=2.90m)
⑰2Ø12/25 PC52 mustati L=2.55m
⑱2Ø12/20 PC52 L=4.50m
⑲2Ø12/20 PC52 L=4.55m
⑰2Ø12/25 PC52 L=2.55m
C
Cuva lift 2.05m x2.00m
Elevator shaft 2.05x2.00m
Vedere in plan
Scara 1:50
⑯ 2Ø10/20 PC52 L=2.90m
⑮ 2Ø10/20 PC52 L=2.85m
3
12 - 12
SCARA 1:25
㉘Ø10/20 PC52 L=2.25m
14 - 14
SCARA 1:25
㉑plasa/netting Ø8/15 OB37
scara (vezi plan scara)
mustati scara (vezi plan scara)
㉜ 16 etr.Ø8/20
a - a
SCARA 1:25
㉛6 Ø10 PC52
㉜ 16 Ø8/20PC52 L=1.20m
b - b
SCARA 1:25
plasa/netting ㉑ Ø8/15 OB37
Det.1
Capac tabla striata
L 30x30x4 - P1
Prazn / Anchor Ø6/400 ㉒
L=100 OB37

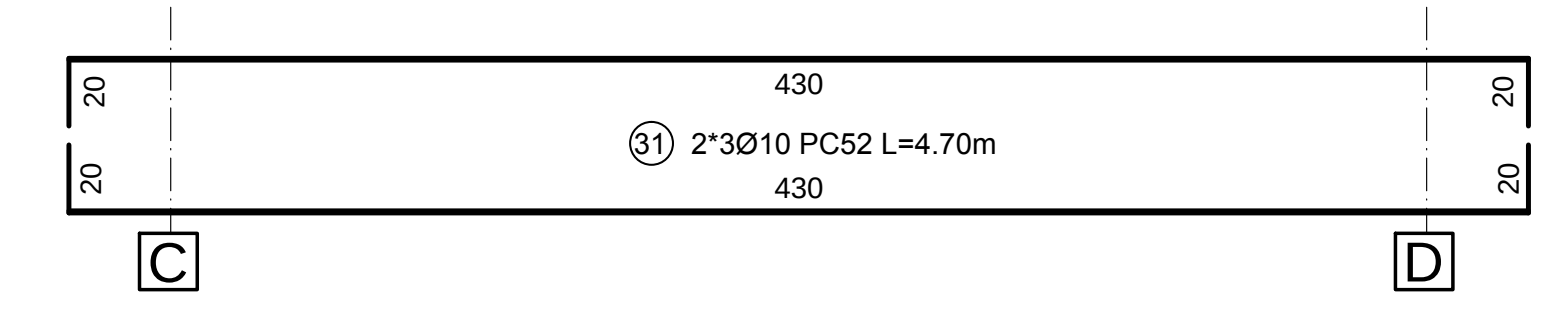
EXTRAS LAMINATE								
Pozitia elementului	Denumirea elementului	Grosime (mm)	Latime (mm)	Lungime (mm)	Greutate/ml (kg/ml)	Nr. Buc	Gr. Pozitie (kg/buc)	Gr. Totala (kg)
P1	L30x30x4	4	300	69000	1.78	-		122.820
P2	Ts 5	5	360	500	14.13	102	7.065	720.630
P3	L30x30x4	4	300	500	9.42	260	4.710	1224.600
P4	Ts 5	5	860	860	33.755	1	29.029	29.029
P5	L30x30x4	4	800	800	25.12	1	20.096	20.096
P6	L30x30x4	4	300	1047	9.42	1	9.863	9.863
P7	L30x30x4	4	300	750	508.00	2	381.000	762.000
P8	U80	6	80	4.75	8.64	3	41.040	123.120
P9	Ts 5	5	660	500	25.90	14	13.000	182.000
TOTAL GREUTATE SUBANSAMBLE NETIPIZATE (kg)								3194.158
GREUTATE ELECTROZI DE SUDURA 3% (kg)								95.825
GREUTATE grund 0.4% (kg)								12.777
TOTAL GENERAL(kg)								3303

MATERIALE / MATERIALS :
BETON ARMAT / REINFORCED CONCRETE :
C12/15- P4 - T3 - IIA - SR32.5;
OTEL BETON/ REINFORCEMENT :PC52, OB37
LAMINATE / ROLLED STEEL - S235J2G3;


DETALIU INTRERUPERE ARMATURI
DETAIL FOR REINFORCEMENT INTERRUPTION
bare "sus" - (de la partea superioara a unei centuri)
"up" bars- (at the upper part of the girdle)
bare "jos" - (de la partea inferioara a unei centuri)
"down" bars- (at the lower part of the girdle)
80
80
80
80
80

NOTE:

1. Atentie! Se va compacta foarte bine pamantul natural dupa sapatura inaintea de turnarea betonului si straturile de balast.
1. Attention! The natural ground will be well compacted after the digging and before pouring concrete and the ballast layers.
2. Atentie! Golurile de 30x30cm si 45x30cm se vor executa doar in betonul simplu sub grinda de 40x40cm de beton armat.
2. Attention! The 30x30cm and 45x30cm holes will be executed only in simple concrete under the 40x40cm reinforced concrete beam.
3. Platforma pentru grupul electrogen si sinele pentru cele 2 transformatoare se vor realiza numai dupa procurarea echipamentelor.
3. The foundation for the diesel generator and the rails for the two transformers will be designed after procurring the equipments.
4. Atentie! Pentru peretele din sectiunea 10-10 se va avea in vedere hidroizolarea fundatiei acestuia.
4. Attention! The foundation for the wall shown in section 10-10 will be waterproofed.
5. Acoperirea cu beton a armaturii la elementele care sunt in contact cu pamantul este de 5 cm.
5. For the elements that are in contact with earth, the concrete covering of the reinforcement bars will be 5cm.


430
㉛ 2*3Ø10 PC52 L=4.70m
430
20
20
C
D

EXTRAS DE ARMARE										
MARCA	D	Nr.buc	Lungime	TIP ARMATURA						
				OB37		PC52				
				6	8	8	10	12	16	20
1	12	-	global					8100.0		
2	12	-	global					584.0		
3	12	-	global					2920.0		
4	12	4500	2.40					10800.0		
5	10	4500	2.60				11700.0			
6	8	2250	2.00			4500.0				
7	8	1125	0.80		900.0					
8	16	-	global						1264.0	
9	8	1054	1.50			1581.0				
10	8	395	2.50			987.5				
11	10	18	3.20				57.6			
12	8	9	3.75			33.8				
13	8	50	0.60			30.0				
14	10	24	1.70				40.8			
15	10	20	2.85				57.0			
16	10	20	2.90				58.0			
17	12	80	2.55					204.0		
18	12	28	4.50					126.0		
19	12	28	4.55					127.4		
20	10	70	1.30				91.0			
21	10	-	global				300.0			
22	10	12	4.40				52.8			
23	10	30	1.80				54.0			
24	8	84	0.55			46.2				
25	10	56	2.00				112.0			
26	12	14	1.55					21.7		
27	12	60	2.90					174.0		
28	10	35	2.25				78.8			
29	10	60	1.95				117.0			
30	8	-	global			150.0				
31	10	6	4.70				28.2			
32	8	16	1.20			19.2				
33	20	116	2.85							330.6
34	20	220	2.65							583.0
35	20	48	2.35							112.8
36	20	24	2.65							63.6
37	8	-	global		8680.0					
38	6	175	0.10	17.5						
total lungimi				17.5	9580.0	7347.7	12747.2	23057.1	1264.0	1090.0
kg / ml				0.222	0.394	0.394	0.616	0.887	1.577	2.465
kg / f				4	3775	2895	7852	20452	1993	2686.9
TOTAL				3778		35879				

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 FINANȚAT DE UNIUNEA EURO
EUROPEAN UNION FINANCED PR

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

CLIENT / CLIENT

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	Verificator Verifier	Giuseppe Fioravanti	12.2011	

SUBCONTRACTANT / SUBCONTRACTOR

ABEX

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	12.2011	
Întocmit Elaborated	Proiectant Designer	Georgiana Georgescu	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:
E.D. /D.E.

Denumire desen / Drawing Title :

CLADIREA OCC BRASOV DETALII ARMARE FUNDATII
BRASOV OCC BUILDING FOUNDATION REINFORCEMENT DETAILS

Codificare / Codification System	Scara / Scale 1 : 25	LOT / LOT	Nr. / No 01 / 01

EA51 01 E 01 BZ CC 00 1 9 014 1