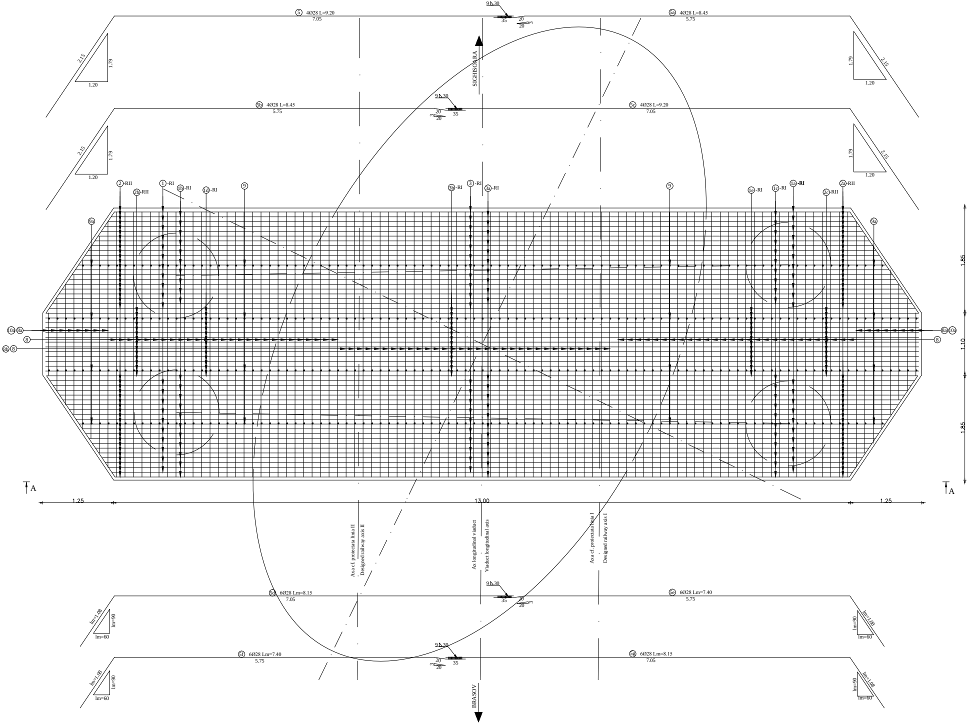
VEDERE IN PLAN / PLAN VIEW B-B

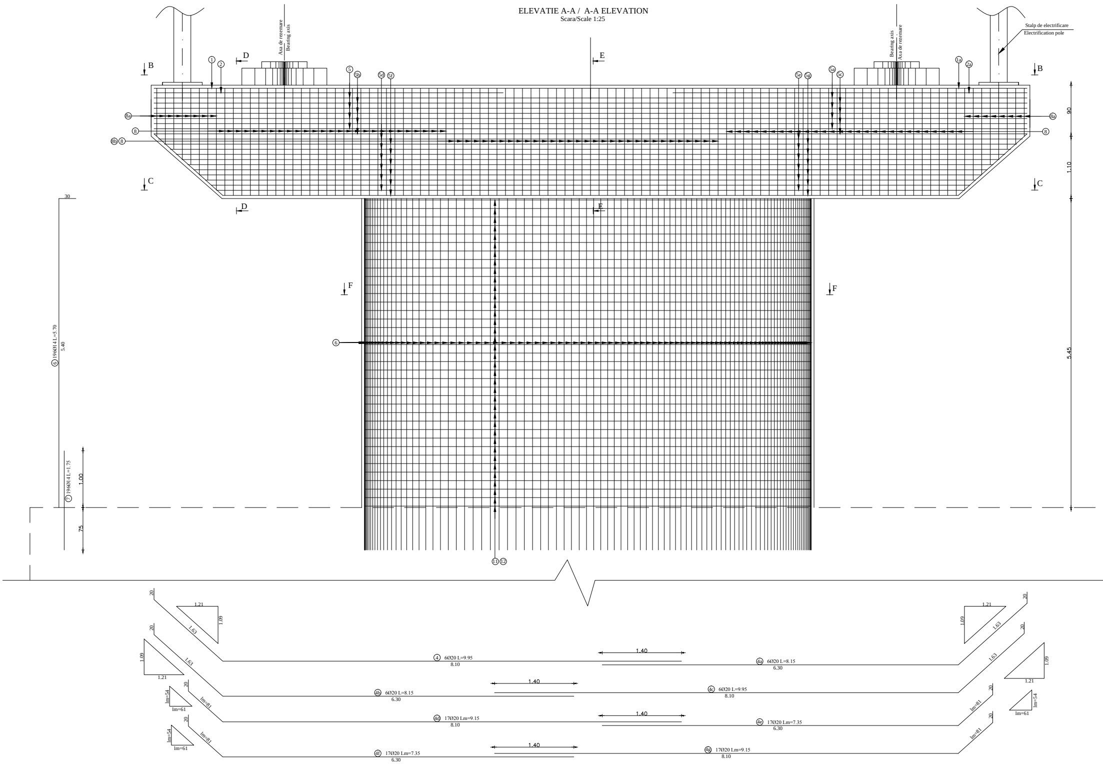
Scara/Scale 1:25



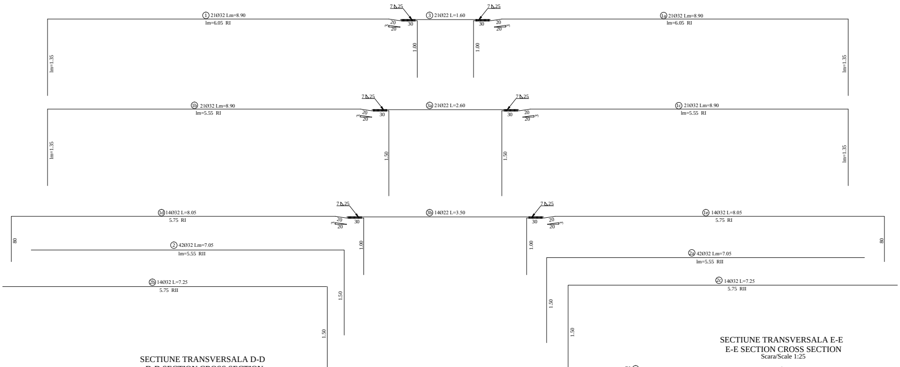
⑤ 4Ø28 L=9.20
7.05
5a 4Ø28 L=8.45
5.75
5b 4Ø28 L=8.45
5.75
5c 4Ø28 L=9.20
7.05
5d 6Ø28 Lm=8.15
7.05
5e 6Ø28 Lm=7.40
5.75
5f 6Ø28 Lm=7.40
5.75
5g 6Ø28 Lm=8.15
7.05
9 30
35
20
20
3
2.15
1.79
1.20
lm=1.08
lm=90
lm=60
SIGHISOARA
BRASOV
② -RII
2b -RII
① -RI
1b -RI
1d -RI
⑨
3b -RI
③ -RI
3a -RI
1e -RI
1c -RI
1a -RI
2c -RII
2a -RII
9a
10a 8a
⑧
8b ⑧
1.85
1.10
1.85
A
A
1.25
13.00
1.25
Axa cf. proiectata linia II
Designed railway axis II
Ax longitudinal viaduct
Viaduct longitudinal axis
Axa cf. proiectata linia I
Designed railway axis I

ELEVATIE A-A / A-A ELEVATION

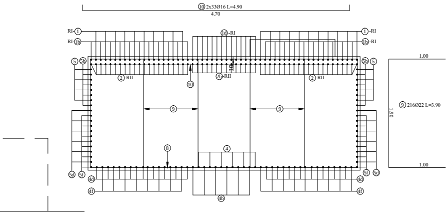
Scara/Scale 1:25



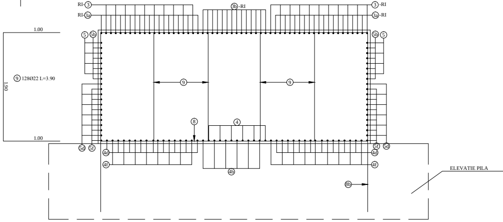
Stalp de electrificare
Electrification pole
Axa de rezemare
Bearing axis
B
C
D
E
F
①
②
①a
②a
⑤
⑤a
⑤b
⑤c
⑤d
⑤e
⑤f
⑤g
⑥
⑧
⑧a
⑧b
⑪
⑫
90
1.10
5.45
30
⑥ 196Ø14 L=5.70
5.40
⑦ 196Ø14 L=1.75
1.00
75
20
1.21
1.09
1.63
④ 6Ø20 L=9.95
8.10
④a 6Ø20 L=8.15
6.30
④b 6Ø20 L=8.15
6.30
④c 6Ø20 L=9.95
8.10
④d 17Ø20 Lm=9.15
8.10
④e 17Ø20 Lm=7.35
6.30
④f 17Ø20 Lm=7.35
6.30
④g 17Ø20 Lm=9.15
8.10
1.40
lm=54
lm=61
lm=81

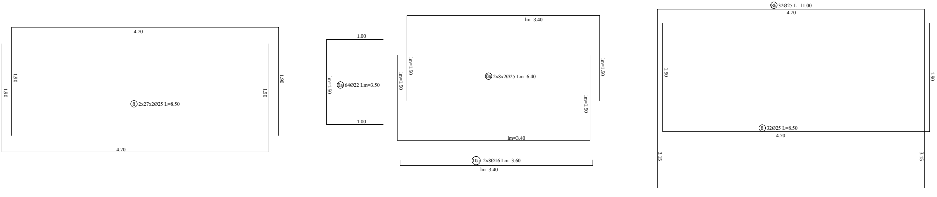

1 21Ø32 Lm=8.90
lm=6.05 RI
3 21Ø22 L=1.60
1a 21Ø32 Lm=8.90
lm=6.05 RI
7 25
20
30
3
1.00
lm=1.35
1b 21Ø32 Lm=8.90
lm=5.55 RI
3a 21Ø22 L=2.60
1c 21Ø32 Lm=8.90
lm=5.55 RI
1.50
1d 14Ø32 L=8.05
5.75 RI
3b 14Ø22 L=3.50
1e 14Ø32 L=8.05
5.75 RI
80
2 42Ø32 Lm=7.05
lm=5.55 RII
2a 42Ø32 Lm=7.05
lm=5.55 RII
2b 14Ø32 L=7.25
5.75 RII
2c 14Ø32 L=7.25
5.75 RII

SECTIUNE TRANSVERSALA D-D
D-D SECTION CROSS SECTION
Scara/Scale 1:25


10 2x33Ø16 L=4.90
4.70
RI-1
RI-1b
1d -RI
1 -RI
1b -RI
5
5b
2 -RII
2b -RII
10
9
8
4
5d
5f
4d
4f
4b
1.00
9 216Ø22 L=3.90
1.90

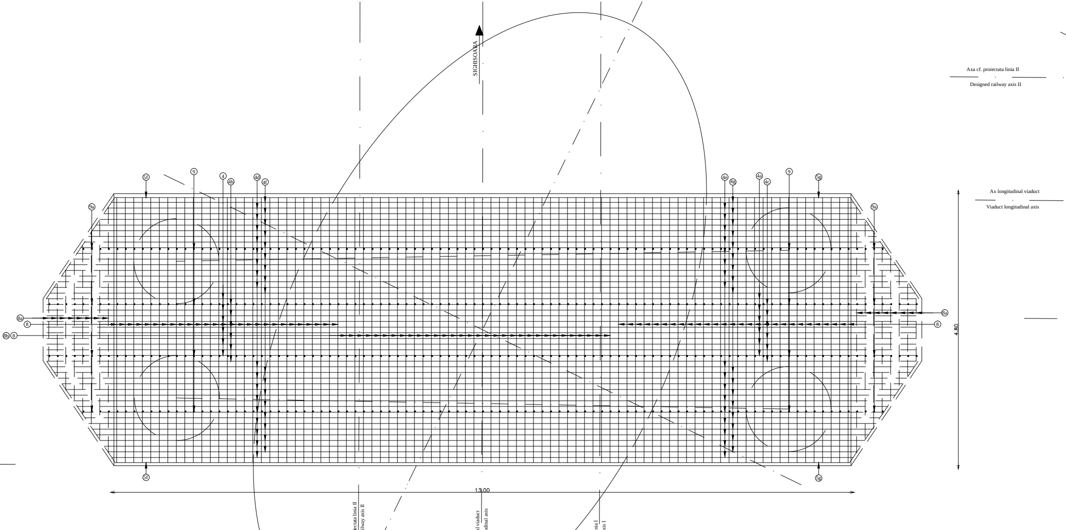
SECTIUNE TRANSVERSALA E-E
E-E SECTION CROSS SECTION
Scara/Scale 1:25


RI-3
RI-3a
3b -RI
3 -RI
3a -RI
5
5b
1.00
9 128Ø22 L=3.90
1.90
9
8
4
5d
5f
4d
4f
4b
8b
ELEVATIE PILA


4.70
1.90
8 2x27x2Ø25 L=8.50
1.00
lm=1.50
9a 64Ø22 Lm=3.50
lm=3.40
8a 2x8x2Ø25 Lm=6.40
10a 2x8Ø16 Lm=3.60
8b 32Ø25 L=11.00
8 32Ø25 L=8.50
3.15

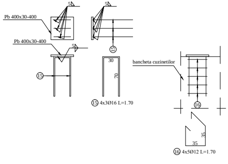
SECTIUNE/ SECTION C-C

Scara/Scale 1:25

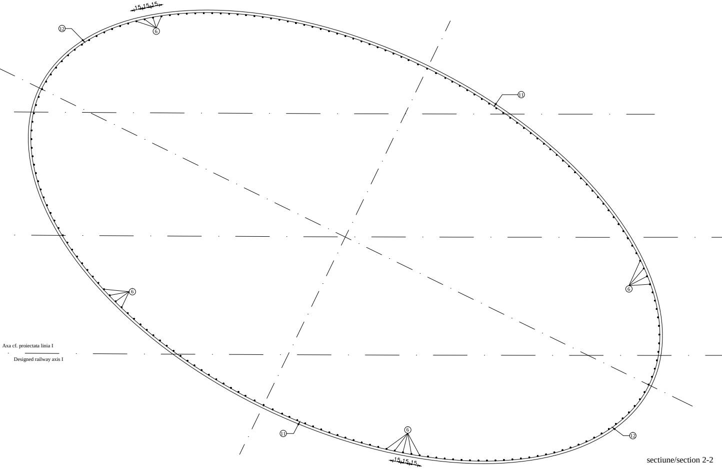

SIGHISOARA
Axa cf. proiectata linia II
Designed railway axis II
Ax longitudinal viaduct
Viaduct longitudinal axis
5f
9
4
4b
4d
4f
4e
4g
4a
4c
9
5g
9a
9a
8a
8
8b
8
8a
8
4.80
5f
5g
13.00
Axa cf. proiectata linia II
Designed railway axis II
Ax longitudinal viaduct
Viaduct longitudinal axis
Axa cf. proiectata linia I
Designed railway axis I
BRASOV

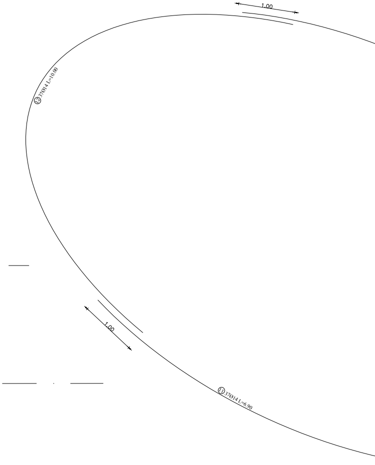
DETALIUL PLACUTA PENTRU PRESA
PLATE FOR PRESS - DETAIL

Scara/Scale 1:25


5
5
Pb 400x30-400
Pb 400x30-400
5
15
15
30
70
15 4x3Ø16 L=1.70
bancheta cuzinetilor
16
35
35
16 4x5Ø12 L=1.70

SECTIUNE/ SECTION F-F
Scara/Scale 1:25


15 15 15
⑥
⑫
⑪
⑥
⑥
Axa cf. proiectata linia I
Designed railway axis I
⑥
⑪
⑫
15 15 15

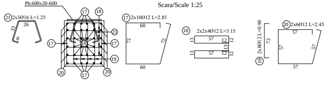

1.00
⑫ 37Ø14 L=10.00
1.00
⑪ 37Ø14 L=6.90

ATENTIE/ATENTION

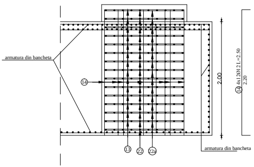
Aprovizionarea aparatelor de reazem se va face inaintea executarii cuzinetilor si a banchetei acestora. In cazul in care inaltimea aparatelor de reazem aprovizionate difera fata de cea considerata in proiect se vor modifica inaltimile pe reazem corespunzator cu noile aparate.

The bearing blocks shall be supplied before building the bearings and their seats. In case the height of the supplied bearing blocks differs from that given in the project, the heights on the seats shall be adjusted so as to comply with the new devices.

DETALIU DE CUZINET PENTRU STALPUL DE ELECTRIFICARE
Scara/Scale 1:25

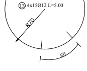

Pb.600x20-600
㉑ 2x3Ø16 L=1.25
26
33
8
⑰
⑱
⑰
⑱
㉑
⑰
⑲
⑳
⑰
⑳
⑰ 2x10Ø12 L=2.85
60
72
72
60
⑱ 2x2x4Ø12 L=3.15
13
57
12
12
13
13
57
12
12
⑲ 2x8Ø12 L=0.90
72
⑳ 2x6Ø12 L=2.45
57
57
57
57

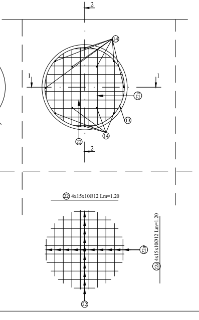
sectiune/section 2-2


armatura din bancheta
⑭
2.00
⑭ 4x12Ø12 L=2.50
2.20
⑬
㉒
22a
armatura din bancheta

DETALIUL ARMARE CUZINETI
vedere in plan/plan view

Scara/Scale 1:25

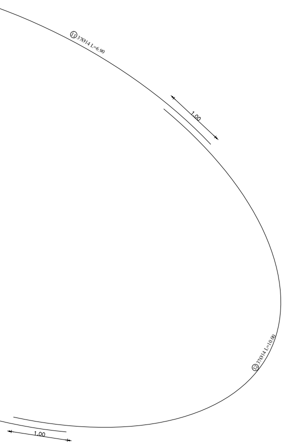

⑬ 4x15Ø12 L=5.00
R70
60


2
⑭
1
1
22a
⑬
⑭
㉒
2
㉒ 4x15x10Ø12 Lm=1.20
22a 4x15x10Ø12 Lm=1.20
22a
㉒

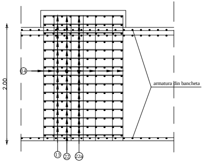
Beton armat/Reinforced concrete: –C35/45 bancheta cuzinetilor/bench liners
–C25/30 elevatie, ziduri intoarse/elevation, reverted walls

Armatura/Reinforcement: –S355,S345(PC52)

Strat de acoperire/concrete cover: –min.4cm expunere in aer/air exposed


⑪ 37Ø14 L=6.90
1.00
⑫ 37Ø14 L=10.00
1.00

sectiune/section 1-1


⑭
2.00
armatura din bancheta
⑬
㉒
22a

EXTRAS DE ARMATURA
TABLE FOR REINFORCEMENTS

M	Ø	B	L(m)	PC52							
				Ø12	Ø14	Ø16	Ø20	Ø22	Ø25	Ø28	Ø32
1	32	21	Lm=8.90								186.90
1a	32	21	Lm=8.90								186.90
1b	32	21	Lm=8.90								186.90
1c	32	21	Lm=8.90								186.90
1d	32	14	8.05								112.70
1e	32	14	8.05								112.70
2	32	42	Lm=7.05								296.10
2a	32	42	Lm=7.05								296.10
2b	32	14	7.25								101.50
2c	32	14	7.25								101.50
3	22	21	1.60					33.60			
3a	22	21	2.60					54.60			
3b	22	14	3.50					49.00			
4	20	6	9.95				59.70				
4a	20	6	8.15				48.90				
4b	20	6	8.15				48.90				
4c	20	6	9.95				59.70				
4d	20	17	Lm=9.15				155.55				
4e	20	17	Lm=7.35				124.95				
4f	20	17	Lm=7.35				124.95				
4g	20	17	Lm=9.15				155.55				
5	28	4	9.20							36.80	
5a	28	4	8.45							33.80	
5b	28	4	8.45							33.80	
5c	28	4	9.20							36.80	
5d	28	6	Lm=8.15							48.90	
5e	28	6	Lm=7.40							44.40	
5f	28	6	Lm=7.40							44.40	
5g	28	6	Lm=8.15							48.90	
6	14	196	5.70		1117.20						
7	14	196	1.75		343.00						
8	25	140	8.50						1190.00		
8a	25	32	Lm=6.40						204.80		
8b	25	32	11.00						352.00		
9	22	344	3.90					1341.60			
9a	22	64	Lm=3.50					224.00			
10	16	66	4.90			323.40					
10a	16	16	Lm=3.60			57.60					
11	14	74	6.90		510.60						
12	14	74	10.00		740.00						
13	12	60	5.00	300.00							
14	12	48	2.50	120.00							
15	16	12	1.70			20.40					
16	12	20	1.70	34.00							
17	12	20	2.85	57.00							
18	12	16	3.15	50.40							
19	12	16	0.90	14.40							
20	12	12	2.45	29.40							
21	16	6	1.25			7.50					
22	12	600	Lm=1.20	720.00							
22a	12	600	Lm=1.20	720.00							
LUNGIMI/Ø				2045.20	2710.80	408.90	778.20	1702.80	1746.80	327.80	1768.20
GREUTATI/ML (kg)				0.888	1.208	1.578	2.466	2.984	3.853	4.834	6.313
GREUTATI/Ø				1816	3275	645	1919	5081	6730	1585	11163
GREUTATI PE TIP DE OTEL				32214							

TOTAL 4 PILE: 4 x32214kg=128856kg
TOTAL 4 PIERS: 4x32214kg=128856kg

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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

CFR

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		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis		VK

SUBCONTRACTANT / SUBCONTRACTOR

AREX COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Andrei Costan	03.2012	

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:
P.Th. / T.D.
D.E. / E.D.

Denumire desen / Drawing Title : **INTERVAL / SECTION FELDIOARA - APATA**

VIADUCT Km 201+571.960 - D=236.20m

PLAN ARMARE PILE / PEARS REINFORCEMENT PLAN

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01

EA51 01 E 08 BC PV 01 5 2 011 0