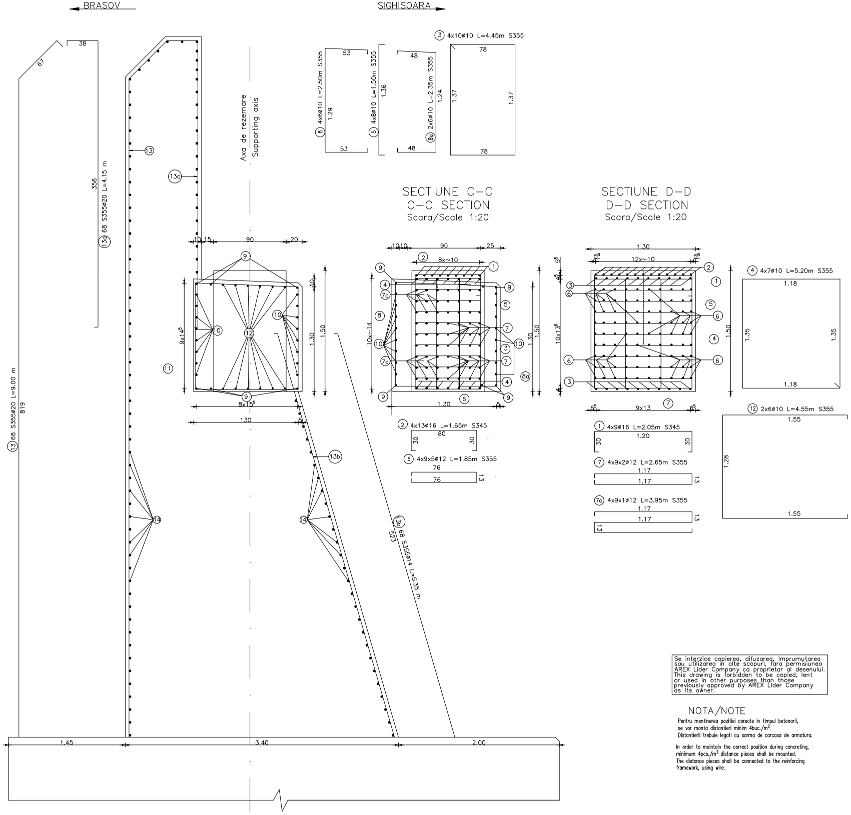
SECTIUNE B–B
B–B SECTION
Scara/Scale 1:20

SECTIUNE C–C
C–C SECTION
Scara/Scale 1:20

SECTIUNE D–D
D–D SECTION
Scara/Scale 1:20


BRASOV
SIGHISOARA
Axa de rezemare
Supporting axis
⑬ 68 S355ø20 L=9.00 m
819
⑬a 68 S355ø20 L=4.15 m
356
38
67
⑬b 68 S355ø14 L=5.35 m
523
⑬
⑬a
⑬b
⑭
⑨
⑩
⑪
⑫
10 15
90
20
9x14⁵
8x15⁵
1.30
1.50
1.45
3.40
2.00
⑧ 4x6ø10 L=2.50m S355
53
1.29
⑤ 4x8ø10 L=1.50m S355
1.36
⑧a 2x6ø10 L=2.35m S355
48
1.24
③ 4x10ø10 L=4.45m S355
78
1.37
10 10
8x~10
25
10x~14
①
②
③
④
⑤
⑥
⑦
⑦a
⑧
⑧a
② 4x13ø16 L=1.65m S345
80
30
⑥ 4x9x5ø12 L=1.85m S355
76
13
12x~10
10x13⁶
9x13
6⁵
① 4x9ø16 L=2.05m S345
1.20
30
⑦ 4x9x2ø12 L=2.65m S355
1.17
13
⑦a 4x9x1ø12 L=3.95m S355
1.17
13
④ 4x7ø10 L=5.20m S355
1.18
1.35
⑫ 2x6ø10 L=4.55m S355
1.55
1.28

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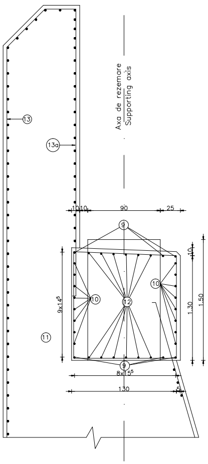
NOTA/NOTE

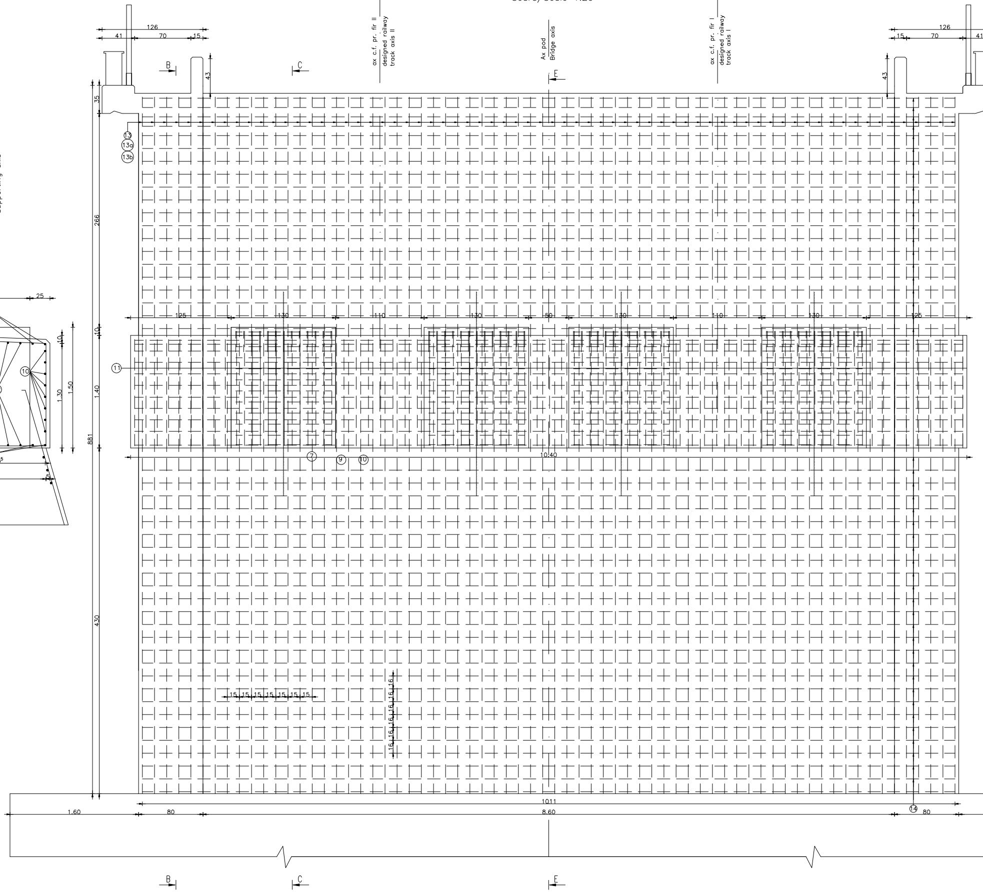
Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m^2. Distantierii trebuie legati cu sarma de carcasa de armatura.

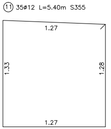
In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted. The distance pieces shall be connected to the reinforcing framework, using wire.

SECTIUNE E–E
E–E SECTION
Scara/Scale 1:20


Axa de rezemare
Supporting axis
⑬
⑬a
10
10
90
25
⑨
⑩
⑫
⑩
⑪
9x14⁵
10
1.30
1.50
8x15⁵
⑨
130
5

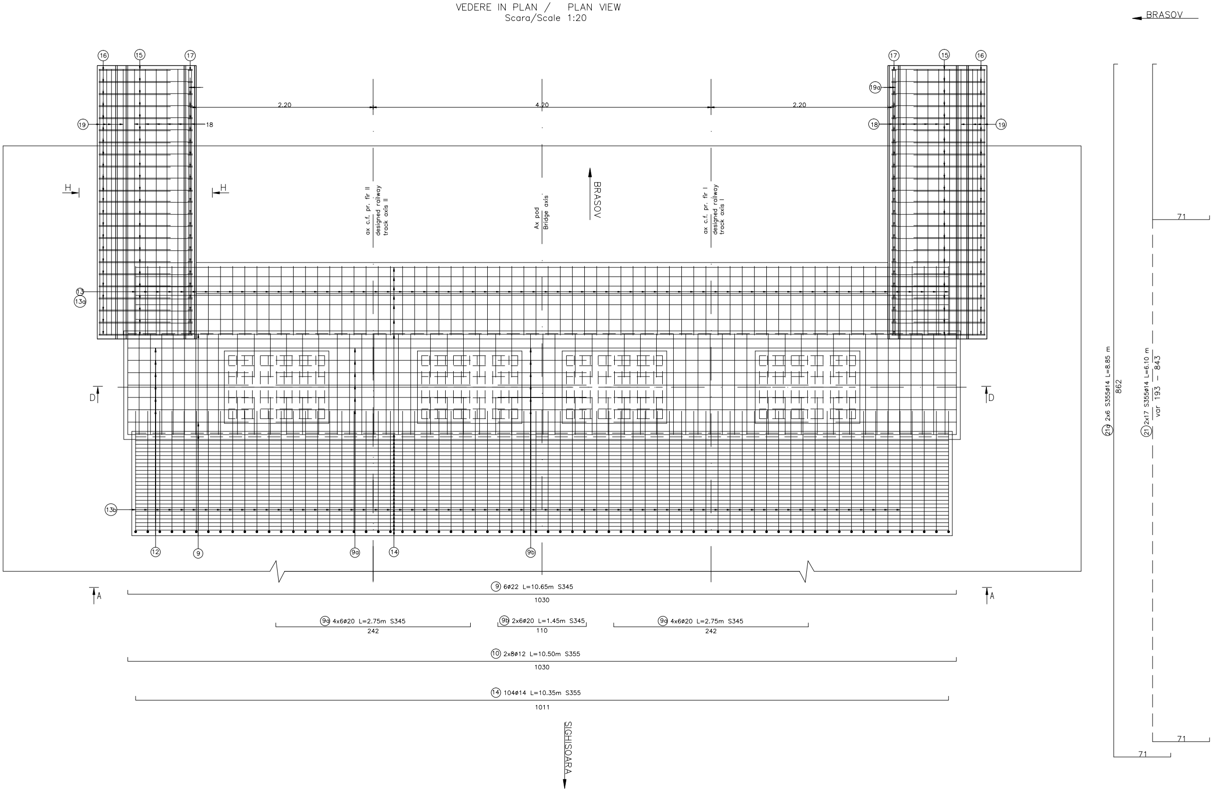
ELEVATIE A–A / A–A ELEVATION
Scara/Scale 1:20


126
41
70
15
B
C
43
35
ax c.f. pr. fir II
designed railway
track axis II
Ax pod
Bridge axis
E
ax c.f. pr. fir I
designed railway
track axis I
126
15
70
41
43
⑬
⑬a
⑬b
266
10
1.40
881
430
⑪
125
130
110
130
50
130
110
130
125
10.40
⑦
⑨
⑩
15 15 15 15 15 15 15
16 16 16 16 16 16 16
1011
1.60
80
8.60
⑭
80
1.60
B
C
E

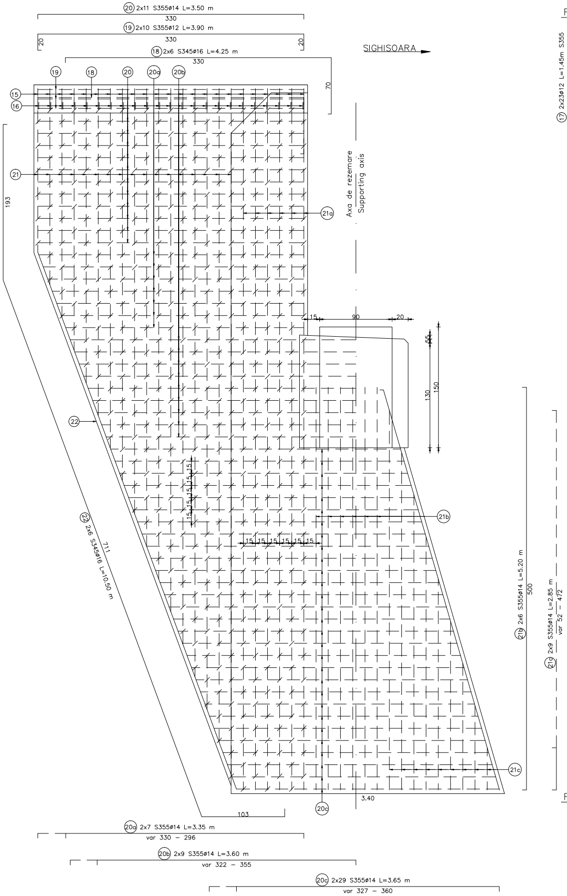

⑪ 35ø12 L=5.40m S355
1.27
1.33
1.28
1.27

VEDERE IN PLAN / PLAN VIEW

Scara/Scale 1:20

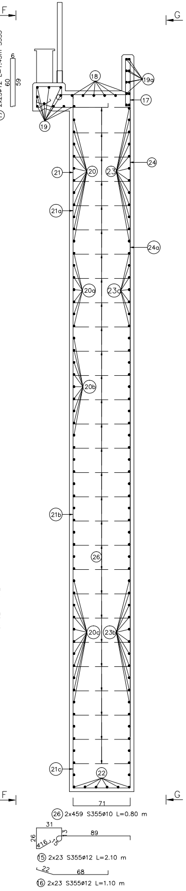

BRASOV
16
15
17
17
15
16
19a
2.20
4.20
2.20
19
18
18
19
H
H
ax c.f. pr. fir II
designed railway track axis II
Ax pod
Bridge axis
BRASOV
ax c.f. pr. fir I
designed railway track axis I
71
13
13a
D
D
13b
12
9
9a
14
9b
9 6ø22 L=10.65m S345
1030
A
A
9a 4x6ø20 L=2.75m S345
242
9b 2x6ø20 L=1.45m S345
110
9a 4x6ø20 L=2.75m S345
242
10 2x8ø12 L=10.50m S355
1030
14 104ø14 L=10.35m S355
1011
SIGHISOARA
21a 2x6 S355ø14 L=8.85 m
862
21 2x17 S355ø14 L=6.10 m
var 193 - 843
71
71

VEDERE F–F / F–F VIEW
Scara/Scale 1:20



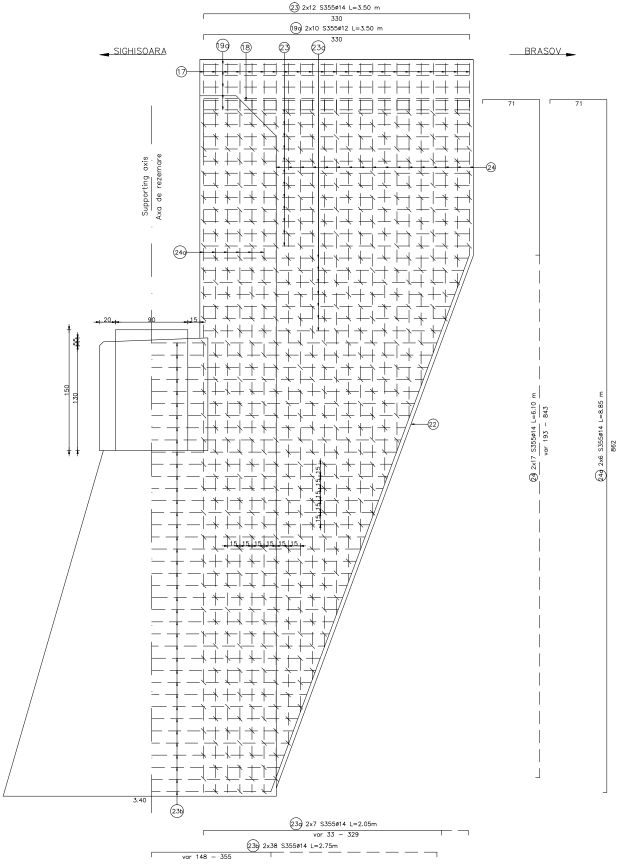
⑳ 2x11 S355ø14 L=3.50 m
330
⑲ 2x10 S355ø12 L=3.90 m
330
20
20
⑱ 2x6 S345ø16 L=4.25 m
330
70
SIGHISOARA
19
18
20
20a
20b
15
16
21
21a
193
Axa de rezemare
Supporting axis
15
90
20
55
130
150
22
21b
15 15 15 15 15 15
15 15 15 15 15
22 2x6 S345ø16 L=10.50 m
711
21b 2x6 S355ø14 L=5.20 m
500
21c 2x9 S355ø14 L=2.85 m
var 52 – 472
21c
103
20c
3.40
20a 2x7 S355ø14 L=3.35 m
var 330 – 296
20b 2x9 S355ø14 L=3.60 m
var 322 – 355
20c 2x29 S355ø14 L=3.65 m
var 327 – 360

SECTIUNE H–H / H–H SECTION
Scara/Scale 1:20

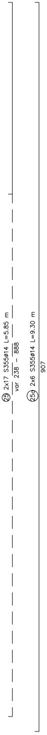


F
G
⑰ 2x23ø12 L=1.45m S355
6
60
59
18
19a
17
19
21
20
23
24
21a
24a
20a
23a
20b
26
21b
20c
23b
21c
22
F
G
71
26 2x459 S355ø10 L=0.80 m
31
26
416
15
13
89
⑮ 2x23 S355ø12 L=2.10 m
22
68
⑯ 2x23 S355ø12 L=1.10 m

VEDERE G–G / G–G VIEW
Scara/Scale 1:20



23 2x12 S355ø14 L=3.50 m
330
19a 2x10 S355ø12 L=3.50 m
330
SIGHISOARA
BRASOV
19a
18
23
23a
17
71
71
24
Supporting axis
Axa de rezemare
24a
20
90
15
55
150
130
22
15 15 15 15 15 15
15 15 15 15 15
24 2x17 S355ø14 L=6.10 m
var 193 – 843
24a 2x6 S355ø14 L=8.85 m
862
3.40
23b
23a 2x7 S355ø14 L=2.05m
var 33 – 329
23b 2x38 S355ø14 L=2.75m
var 148 – 355



25 2x17 S355ø14 L=5.85 m
var 238 - 888
25a 2x6 S355ø14 L=9.30 m
907

EXTRAS DE ARMATURA PENTRU O CULEE
TABLE FOR REINFORCEMENTS FOR SINGLE ABUTMENT

				S355			S345	
Marca	Diametru	Lung. / [m]	Nr. buc	10	12	14	16	20
1	16	2.05	36				73.80	
2	16	1.65	52				85.80	
3	10	4.45	40	178.00				
4	10	5.20	28	145.60				
5	10	1.50	32	48.00				
6	12	1.85	180		333.00			
7	12	2.65	72		190.80			
7a	12	3.95	36		142.20			
8	10	2.50	24	60.00				
8a	10	2.35	24	56.40				
9	20	10.65	6					63.9
9a	20	2.75	24					66
9b	20	1.45	12					17.4
10	12	10.50	16		168.00			
11	12	5.40	35		189.00			
12	10	4.55	12	54.60				
13	14	9.00	68					612
13a	14	4.15	68					282.2
13b	14	5.35	68			363.80		
14	14	10.35	104			1076.40		
15	12	2.10	46		96.60			
16	12	1.10	46		50.60			
17	12	1.45	46		66.70			
18	16	4.25	12				51.00	
19	12	3.90	20		78.00			
19a	12	3.90	20		78.00			
20	14	3.50	22			77.00		
20a	14	3.35	14			46.90		
20b	14	3.60	18			64.80		
20c	14	3.65	58			211.70		
21	14	6.10	34			207.40		
21a	14	8.85	12			106.20		
21b	14	5.20	12			62.40		
21c	14	2.85	18			51.30		
22	16	10.50	12				126.00	
23	14	3.50	24			84.00		
23a	14	2.05	14			28.70		
23b	14	2.75	76			209.00		
24	14	6.10	34			207.40		
24a	14	8.85	12			106.20		
25	14	5.85	34			198.90		
25a	14	9.30	12			111.60		
26	10	0.8	918	734.40				
Lungimi totale pe diametre (m)				1277.00	1392.90	3213.70	336.60	1041.5
Masa pe metru liniar (kg/ml)				0.617	0.888	1.208	1.578	2.466
Masa pe diametre (Kg)				787.91	1236.90	3882.15	531.15	2568.339
Masa pe tip de otel (Kg)				5906.95			3099.49	
Masa totala culee (Kg)				9006.45				
Spor 5%				450.32				
				TOTAL 9500 Kg				

TOTAL POD (2 CULEI): 2 x 9500kg=19000.00kg
TOTAL BRIDGE (2 ABUTMENTS): 2 x 9500kg=19000.00kg

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	Semnături 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		

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Mihai Ady Nicolae	02.2012	

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:
D.E. / E.D.

Denumire desen / Drawing Title :

VIADUCT Km.254+449.803 /PLAN ARMARE CULEI
VIADUCT Km.254+449.803 /ABUTMENTS REINFORCEMENT PLAN

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

E A 5 1 | 0 1 | E | 1 4 | B C | P V | 0 3 | 3 | 2 | 0 1 5 | 0

594x3200