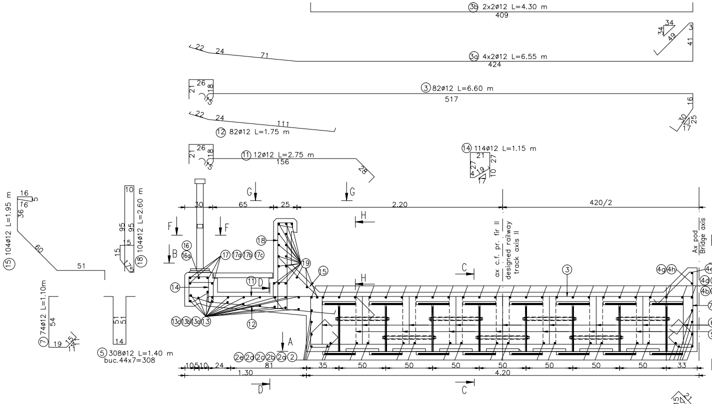
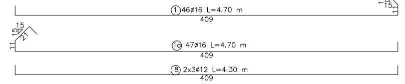
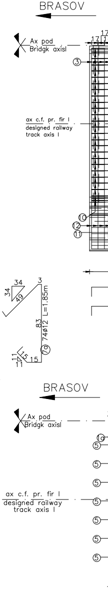
SECTIUNE TRANSVERSALA TABLIER POD
BRIDGE DECK CROSS SECTION

sc. 1:20

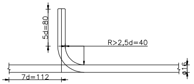

③b 2x2ø12 L=4.30 m
409
③a 4x2ø12 L=6.55 m
424
22 24 71
34 34 49 41 3
③ 82ø12 L=6.60 m
517
21 26 18 8
16 30 25 17
⑫ 82ø12 L=1.75 m
22 24 111
⑪ 12ø12 L=2.75 m
156
28
⑭ 114ø12 L=1.15 m
21 27 27 4 19 10 17
⑮ 104ø12 L=1.95 m
16 16 5 36 60 51
⑱ 104ø12 L=2.60 m
10 95 95 15 15 17
⑦ 74ø12 L=1.10m
54 19 15 11
⑤ 308ø12 L=1.40 m
buc.44x7=308
51 51 14
30 65 25 2.20 420/2
G G F F B B H H C C D D A A E E
ax c.f. pr. fir II
designed railway track axis II
Ax pod
Bridge axis
⑯ ⑯a ⑰ ⑰a ⑰b ⑰c ⑱ ⑲ ⑮ ⑭ ⑪ ⑫ ③
⑬c ⑬b ⑬a ⑬
④g ④h ④e ④f ④d ④a ④b ④c ⑦a ⑥ ⑤
②e ②d ②c ②b ②a ②
10 5 10 24 81 35 50 50 50 50 50 50 50 33
1.30 4.20
34 3 34 49
83 ⑦a 74ø12 L=1.85m
11 11 15 15


15 21 15 11
① 46ø16 L=4.70 m
409
15 21 15 11
①a 47ø16 L=4.70 m
409
⑧ 2x3ø12 L=4.30 m
409


BRASOV
Ax pod
Bridgk axisl
17 17 1
③
ax c.f. pr. fir I
designed railway track axis I
⑩ ⑫ ⑪
BRASOV
Ax pod
Bridgk axisl
①a ⑤
⑤
⑤
ax c.f. pr. fir I
designed railway track axis I
⑤
⑤
⑤
⑤

DETALIU "a" (STAS 10111/2-87)
"a" DETAIL (STAS 10111/2-87)

sc. 1:10


5d=80
R>2,5d=40
7d=112
ø16

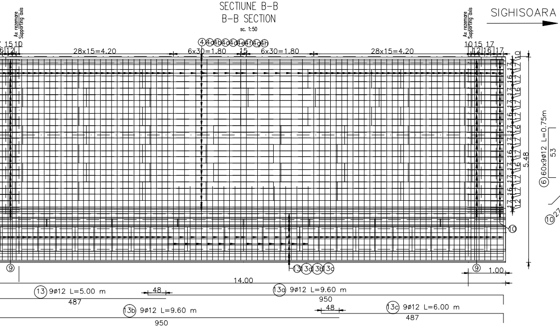
Beton: Concrete:	– C30/37 suprastructura/superstructure
Tipul grinzilor: Beams type:	– grinzi metalice sudate/steel welded girders
Otel pentru grinzi: Steel for the beams:	– (OL 37-EP) S275J$_3$G$_3$ (EN 10025/2004)
Armatura: Reinforcement:	– S355;S345
Strat de acoperire: Concrete cover	– min. 4cm expunere in aer/air exposed

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.

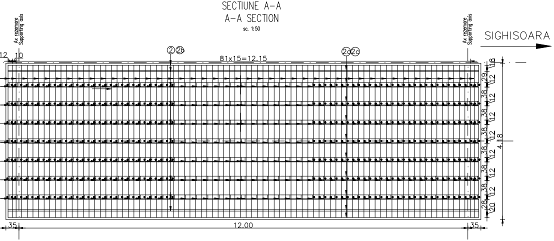
In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted.
The distance pieces shall be connected to the reinforcing framework, using wire.

SECTIUNE B-B
B-B SECTION
sc. 1:50

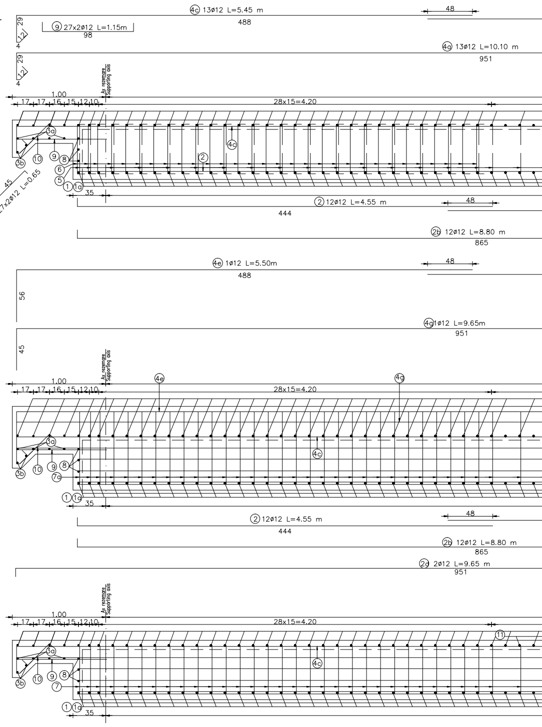


Ax rezemare Supporting axis
SIGHISOARA
④④a④b④c④d④e④f④g④h
28x15=4.20
6x30=1.80
15
6x30=1.80
28x15=4.20
10 15 17
12 16 17
17 15 10
16 12
17 16 17 16 17 17 17 16 17 16 17 17 16 16 17 17 16 12 12 10
5.48
⑨
⑬③a③b③c
⑨
1.00
⑩
14.00
⑬ 9ø12 L=5.00 m
487
48
⑬a 9ø12 L=9.60 m
950
⑬b 9ø12 L=9.60 m
950
48
⑬c 9ø12 L=6.00 m
487
⑥ 60x9ø12 L=0.75m
53
45
⑩ 27x2ø12 L=0.65

SECTIUNE A-A
A-A SECTION
sc. 1:50



Ax rezemare Supporting axis
SIGHISOARA
②②b
②c②c
12 10
81x15=12.15
18 29 12 38 12 38 12 38 12 38 12 38 12 38 12 28 20
4.18
35
12.00
35



④c 13ø12 L=5.45 m
488
48
29
12
4
⑨ 27x2ø12 L=1.15m
98
④a 13ø12 L=10.10 m
951
29
12
4
Ax rezemare Supporting axis
1.00
17 17 16 15 12 10
28x15=4.20
③a
④c
②
③b ⑩ ⑨ ⑧
⑥
⑤
① ①a
35
② 12ø12 L=4.55 m
444
48
②b 12ø12 L=8.80 m
865
④e 1ø12 L=5.50m
488
48
56
④g 1ø12 L=9.65m
951
45
Ax rezemare Supporting axis
④e
④g
1.00
17 17 16 15 12 10
28x15=4.20
③a
④c
③b ⑩ ⑨ ⑧
⑦a
① ①a
35
② 12ø12 L=4.55 m
444
48
②b 12ø12 L=8.80 m
865
②d 2ø12 L=9.65 m
951
Ax rezemare Supporting axis
1.00
17 17 16 15 12 10
28x15=4.20
⑪
③a
④c
③b ⑩ ⑨ ⑧
⑦
① ①a
35

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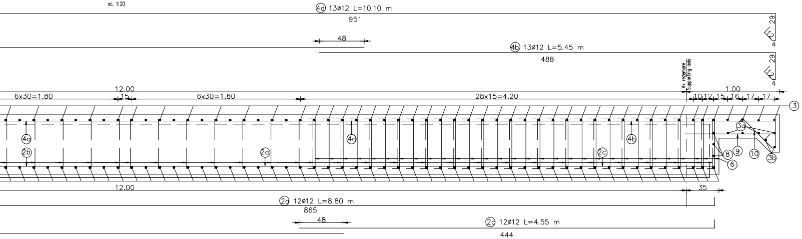
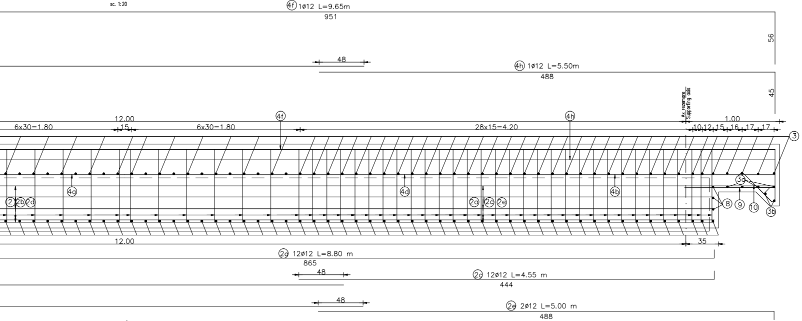
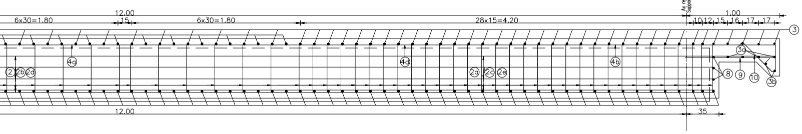
SECTIUNE C-C/C-C SECTION
sc. 1:20

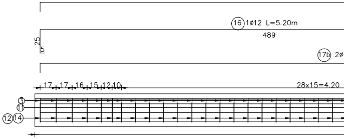

4d 13ø12 L=10.10 m
951
29
12
4
48
4b 13ø12 L=5.45 m
488
29
12
4
Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
28x15=4.20
1.00
10 12 15 16 17 17
3
4a
2b
2a
4a
2c
4b
3a
9
8
10
3b
6
12.00
35
2a 12ø12 L=8.80 m
865
48
2c 12ø12 L=4.55 m
444

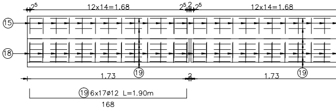
SECTIUNE E-E/E-E SECTION
sc. 1:20

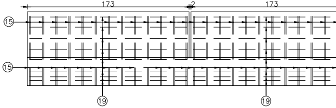

4f 1ø12 L=9.65m
951
56
48
4h 1ø12 L=5.50m
488
45
Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
4f
28x15=4.20
4h
1.00
10 12 15 16 17 17
3
4g
2 2b 2d
4d
2a 2c 2e
4b
3a
8
9
10
3b
12.00
35
2a 12ø12 L=8.80 m
865
48
2c 12ø12 L=4.55 m
444
48
2e 2ø12 L=5.00 m
488

SECTIUNE D-D/D-D SECTION
sc. 1:20


Ax rezemare Supporting axis
12.00
6x30=1.80
15
6x30=1.80
28x15=4.20
1.00
10 12 15 16 17 17
3
4g
2 2b 2d
4d
2a 2c 2e
4b
3a
8
9
10
3b
12.00
35


16 1ø12 L=5.20m
489
25
5
17b 2ø
17 17 16 15 12 10
28x15=4.20
3
11
12 14

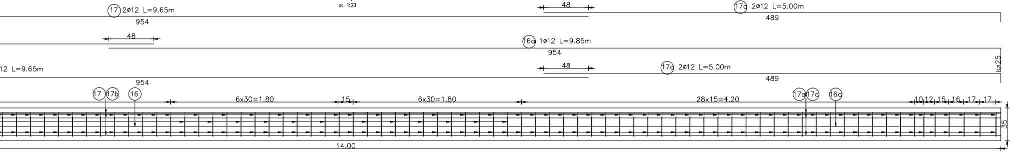

2 5
12x14=1.68
2 5 2 2 5
12x14=1.68
15
18
1.73
19
2
1.73
19
19 6x17ø12 L=1.90m
168


173
2
173
15
15
19
19

EXTRAS DE ARMATURA TABLIER TABLE FOR REINFORCEMENTS FOR SINGLE RAIWAY					
				S355	S345
Marca	Diametru	Lung. / [m]	Nr. buc	ø 12	ø 16
1	16	4.70	46		216.20
1a	16	4.70	47		220.90
2	12	4.55	12	54.60	
2a	12	8.80	12	105.60	
2b	12	8.80	12	105.60	
2c	12	4.55	12	54.60	
2d	12	9.65	2	19.30	
2e	12	5.00	2	10.00	
3	12	6.6	82	541.20	
3a	12	6.55	8	52.40	
3b	12	4.30	4	17.20	
4a	12	10.10	13	131.30	
4b	12	5.45	13	70.85	
4c	12	5.45	13	70.85	
4d	12	10.10	13	131.30	
4e	12	5.50	1	5.50	
4f	12	9.65	1	9.65	
4g	12	9.65	1	9.65	
4h	12	5.50	1	5.50	
5	12	1.40	308	431.20	
6	12	0.75	540	405.00	
7	12	1.10	74	81.40	
7a	12	1.85	74	136.90	
8	12	4.30	6	25.80	
9	12	1.15	54	62.10	

VEDERE F-F/VIEW F-F

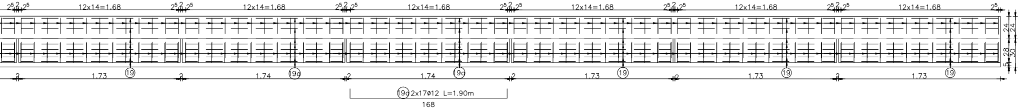
sc. 1:20



17
2ø12 L=9.65m
954
48
17c
2ø12 L=5.00m
489
16a
1ø12 L=9.85m
954
12 L=9.65m
48
17c
2ø12 L=5.00m
489
25
954
17
17b
16
6x30=1.80
15
6x30=1.80
28x15=4.20
17c
17c
16a
10
12
15
16
17
17
35
14.00

VEDERE G-G/VIEW G-G

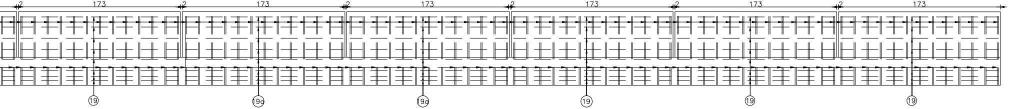
sc. 1:20



12x14=1.68
12x14=1.68
12x14=1.68
12x14=1.68
12x14=1.68
12x14=1.68
24
24
28
30
5
1.73
1.74
1.74
1.73
1.73
1.73
19
19a
19a
19
19
19
19a
2x17ø12 L=1.90m
168

VEDERE H-H/VIEW H-H

sc. 1:20



173
173
173
173
173
173
19
19a
19a
19
19
19

EXTRAS DE ARMATURA TABLIER TABLE FOR REINFORCEMENTS FOR SINGLE RAIWAY					
				S355	S345
Marca	Diametru	Lung. / [m]	Nr. buc	ø 12	ø 16
10	12	0.65	54	35.10	
11	12	1.75	12	21.00	
12	12	1.75	82	143.50	
13	12	5.00	9	45.00	
13a	12	9.60	9	86.40	
13b	12	9.60	9	86.40	
13c	12	5.00	9	45.00	
14	12	1.15	94	108.10	
15	12	1.95	104	202.80	
16	12	5.20	1	5.20	
16a	12	9.85	1	9.85	
17	12	9.65	2	19.30	
17a	12	5.00	2	10.00	
17b	12	5.00	2	10.00	
17c	12	9.65	2	19.30	
18	12	2.60	104	270.40	
19	12	1.90	102	193.80	
19a	12	1.90	34	64.60	
Lungimi totale pe diametre	(m)			3913.25	437.10
Masa pe metru liniar	(kg/ml)			0.888	1.578
Masa pe diametre	(Kg)			3474.966	689.7438
Masa pe tip de otel	(Kg)			3474.966	689.7438
Masa totala tablier	(Kg)			4164.71	
Spor	5%			208.24	
				TOTAL 4400 Kg	

TOTAL POD (2 TABLIERE): 2 x 4400.00kg=8800.0kg
TOTAL BRIDGE (2 DECKS): 2 x 4400.00kg=8800.0kg

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 P

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	Șef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secțiune 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	01.2012	
Întocmit Elaborated	Proiectant Designer	Mihai Ady Nicolae	01.2012	

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:
D.E. / E.D.

Denumire desen / Drawing Title :

POD Km.196+107.230 L=12.00m
ARMARE SUPRASTRUCTURA

BRIDGE Km.196+107.230 L=12.00m
SUPERSTRUCTURE REINFORCEMENT

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

EA51 01 E 08 BC PV 01 0 3 009 0

420x2425