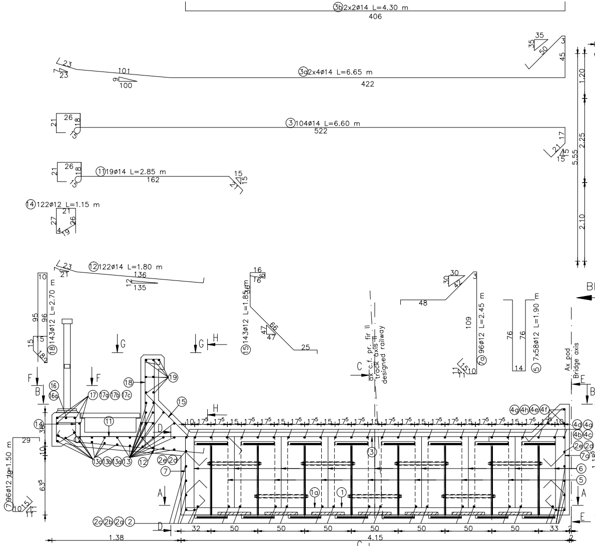
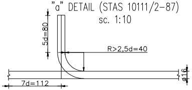
SECTIUNE TRANSVERSALA TABLIER POD
BRIDGE DECK CROSS SECTION

sc. 1:20

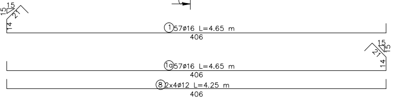


③b 2x2ø14 L=4.30 m
406
③a 2x4ø14 L=6.65 m
422
101
100
23
23
35
35
50
45
③ 104ø14 L=6.60 m
522
26
21
18
⑪ 19ø14 L=2.85 m
162
15
15
⑭ 122ø12 L=1.15 m
21
27
26
19
⑫ 122ø14 L=1.80 m
136
135
⑱ 143ø12 L=2.70 m
95
96
⑮ 143ø12 L=1.85 m
16
16
56
66
47
47
25
30
30
41
48
109
⑦a 96ø12 L=2.45 m
⑤ 7x58ø12 L=1.90 m
76
76
14
⑦ 96ø12 L=1.50 m
29
63⁵
1.20
2.25
2.10
5.55
ax c.f. pr. fir II
track axis II
designed railway
Ax pod
Bridge axis
⑯ ⑯a
⑰ ⑰a ⑰b ⑰c
⑬c ⑬b ⑬a ⑬
⑫ ⑪ ⑭ ⑱ ⑲ ⑮
②e ②d ⑦
②c ②b ②a ②
④g ④h ④e ④f
④a ④d ④b ④c
②e ②d ⑦a ⑥ ⑤
①a ① ③
10 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 15 17⁵ 17⁵ 10
32 50 50 50 50 50 50 50 33
1.38
4.15
A A B B C C D D E E F F G G H H

DETALIU "a" (STAS 10111/2-87)
"a" DETAIL (STAS 10111/2-87)
sc. 1:10

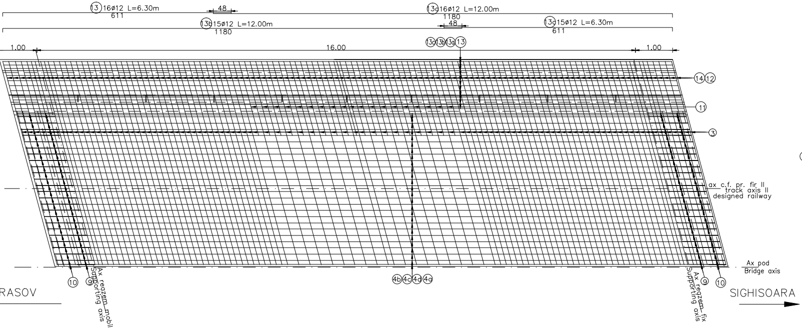


5d=80
R>2,5d=40
7d=112
ø16

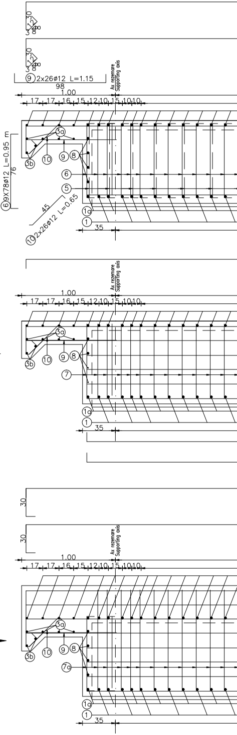


15
15
21
14
① 57ø16 L=4.65 m
406
15
15
21
14
①a 57ø16 L=4.65 m
406
⑧ 2x4ø12 L=4.25 m
406

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

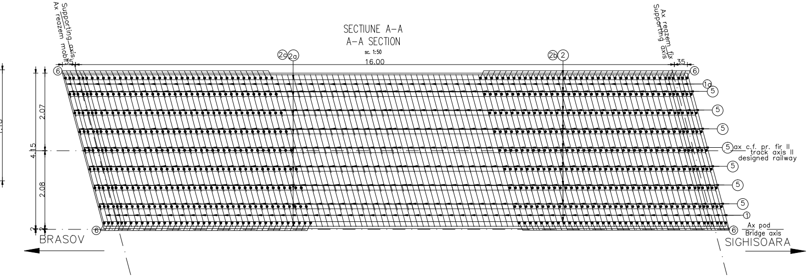


⑬16ø12 L=6.30m
611
48
⑬a16ø12 L=12.00m
1180
48
⑬b15ø12 L=12.00m
1180
⑬c15ø12 L=6.30m
611
1.00
16.00
1.00
⑬c⑬b⑬a⑬
⑭⑫
⑪
③
ax c.f. pr. fir II
track axis II
designed railway
Ax pod
Bridge axis
⑩
⑨
Ax reazem mobil
Supporting axis
④b④c④d④a
Ax reazem fix
Supporting axis
⑨
⑩
BRASOV
SIGHISOARA

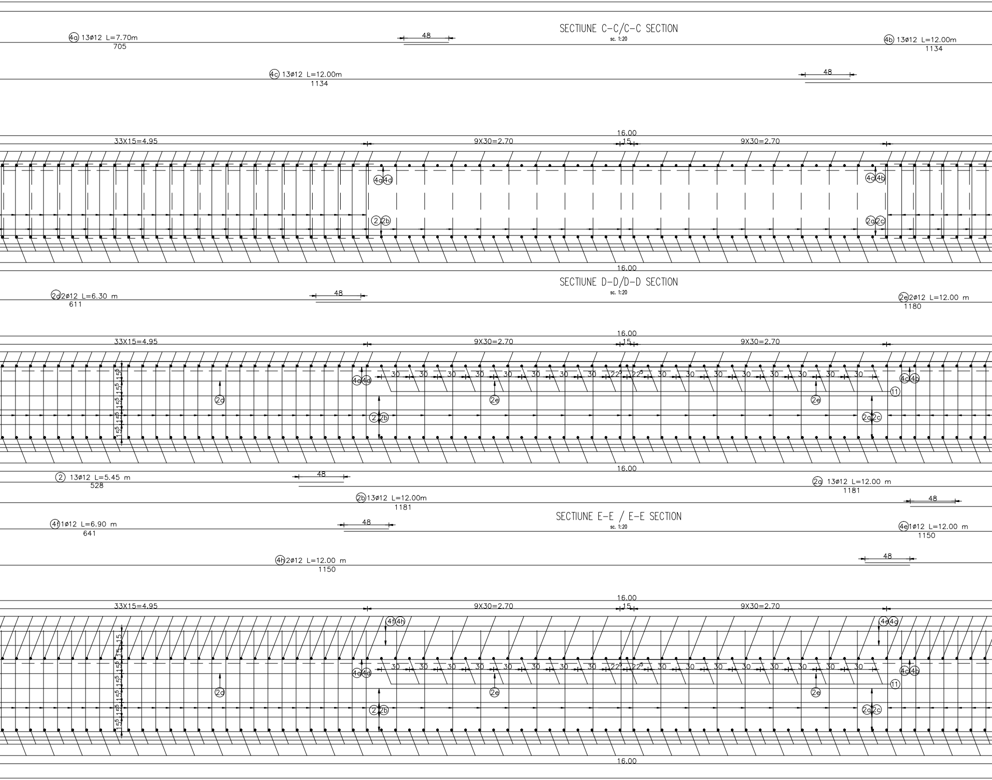


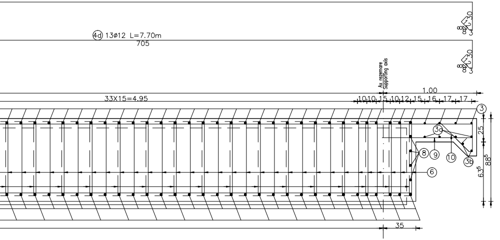
30
12
8
30
12
8
⑨2x26ø12 L=1.15
98
1.00
Ax rezemare
Supporting axis
17 17 16 15 12 10 15 10 10
③a
③b
⑩
⑨
⑧
⑥
⑤
⑥9X78ø12 L=0.95 m
76
45
⑩2x26ø12 L=0.65
①a
①
35
Ax rezemare
Supporting axis
1.00
17 17 16 15 12 10 15 10 10
③a
③b
⑩
⑨
⑧
⑦
①a
①
35
30
30
Ax rezemare
Supporting axis
1.00
17 17 16 15 12 10 15 10 10
③a
③b
⑩
⑨
⑧
⑦a
①a
①
35

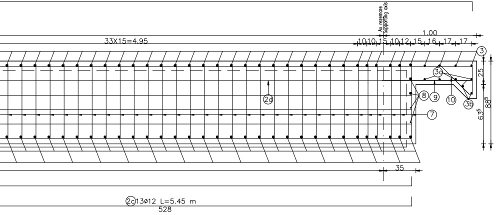
SECTIUNE A-A
A-A SECTION
sc. 1:50

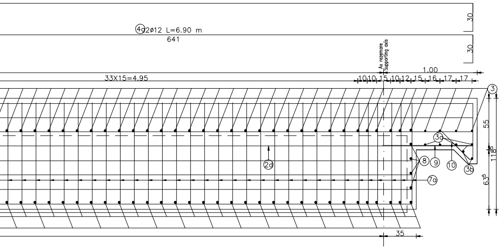


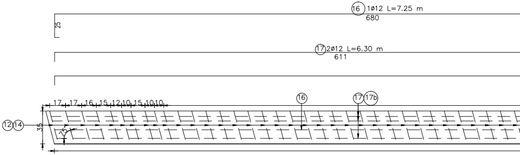
Supporting axis
Ax reazem mobil
Ax reazem fix
Supporting axis
②c②a
②b②
16.00
35
⑥
⑥
①a
⑤
⑤
⑤
⑤
ax c.f. pr. fir II
track axis II
designed railway
⑤
⑤
⑤
①
⑥
Ax pod
Bridge axis
2.07
4.15
2.08
2
BRASOV
SIGHISOARA

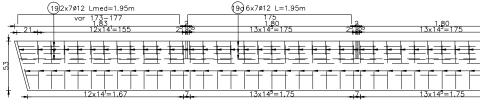

SECTIUNE C-C/C-C SECTION
sc. 1:20
4a 13ø12 L=7.70m
705
48
4b 13ø12 L=12.00m
1134
4c 13ø12 L=12.00m
1134
48
16.00
33X15=4.95
9X30=2.70
15
9X30=2.70
4a 4d
4c 4b
2 2b
2a 2c
16.00
SECTIUNE D-D/D-D SECTION
sc. 1:20
2d 2ø12 L=6.30 m
611
48
2e 2ø12 L=12.00 m
1180
16.00
33X15=4.95
9X30=2.70
15
9X30=2.70
15^5
30
22^5
4a 4d
4c 4b
11
2d
2e
2 2b
2a 2c
16.00
2 13ø12 L=5.45 m
528
48
2a 13ø12 L=12.00 m
1181
2b 13ø12 L=12.00m
1181
48
SECTIUNE E-E / E-E SECTION
sc. 1:20
4f 1ø12 L=6.90 m
641
48
4e 1ø12 L=12.00 m
1150
4h 2ø12 L=12.00 m
1150
48
16.00
33X15=4.95
9X30=2.70
15
9X30=2.70
4f 4h
4e 4g
15
15^5
30
22^5
4a 4d
4c 4b
11
2d
2e
2 2b
2a 2c
16.00

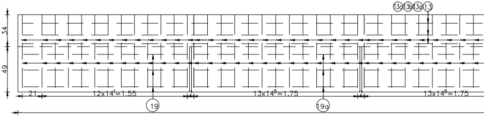

4d 13ø12 L=7.70m
705
8
30
3
Ax rezemare
Supporting axis
1.00
33X15=4.95
10 10 15 10 12 15 16 17 17
3
3a
25
8
9
10
3b
88⁵
6
6³⁵
35


Ax rezemare
Supporting axis
1.00
33X15=4.95
10 10 15 10 12 15 16 17 17
3
3a
25
2a
8
9
10
3b
88⁵
7
6³⁵
35
2c 13ø12 L=5.45 m
528


4a 2ø12 L=6.90 m
641
30
30
Ax rezemare
Supporting axis
1.00
33X15=4.95
10 10 15 10 12 15 16 17 17
3
55
3a
2a
8
9
10
3b
118⁵
7a
6³⁵
35

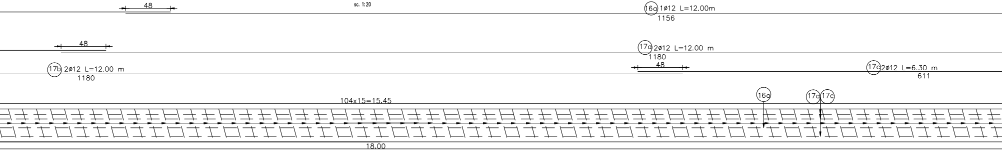

16 1ø12 L=7.25 m
680
25
17 2ø12 L=6.30 m
611
17 17 16 15 12 10 15 10 10
16
17 17b
12 14
35
75


19 2x7ø12 Lmed=1.95m
var 173–177
1.83
19a 6x7ø12 L=1.95m
175
1.80
1.80
21
12x14¹=155
2⁵
2
13x14⁵=175
2⁵
2
13x14⁵=175
53
12x14¹=1.67
7
13x14⁵=1.75
7
13x14⁵=1.75


13a 13b 13a 13
34
49
21
12x14¹=1.55
7
13x14⁵=1.75
7
13x14⁵=1.75
19
19a

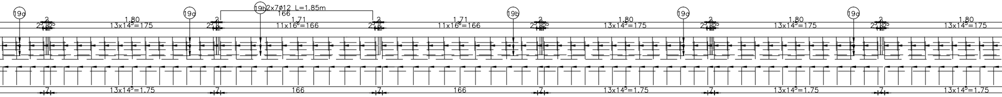
VEDERE F-F/VIEW F-F

sc. 1:20


48
16a 1ø12 L=12.00m
1156
48
17a 2ø12 L=12.00 m
1180
17b 2ø12 L=12.00 m
1180
48
17c 2ø12 L=6.30 m
611
104x15=15.45
16a
17a
17c
18.00

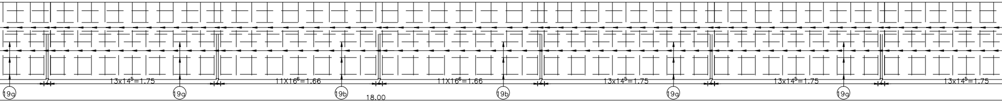
VEDERE G-G/VIEW G-G

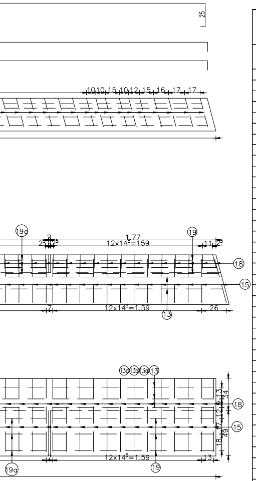
sc. 1:20


19a
19a
19b 2x7ø12 L=1.85m
166
19b
19a
19a
1.80
13x14⁵=175
1.71
11x16⁶=166
1.71
11x16⁶=166
1.80
13x14⁵=175
1.80
13x14⁵=175
1.80
13x14⁵=175
2
2⁵
7
13x14⁵=1.75
166
166
13x14⁵=1.75
13x14⁵=1.75
13x14⁵=1.75

VEDERE H-H/VIEW H-H

sc. 1:20


13x14⁵=1.75
11X16⁶=1.66
11X16⁶=1.66
13x14⁵=1.75
13x14⁵=1.75
13x14⁵=1.75
7
19a
19a
19b
19b
19a
19a
18.00


25
10
10
15
10
12
15
16
17
17
19a
19
2
1.77
2
5
2
5
12x14⁵=159
11
2
5
18
15
7
12x14⁵=1.59
26
13
13c
13b
13a
13
13
9
34
12
17
49
18
18
15
7
12x14⁵=1.59
13
19a
19

EXTRAS DE ARMATURA TABLIER LINIA 2
TABLE FOR REINFORCEMENTS FOR DECK RAILWAY 2

Marca	Diametru	Lung./buc.[m]	Nr.buc.	S355		S345
				ϕC12	ϕC14	ϕC16
1	16	4.65	57			265.05
1a	16	4.65	57			265.05
2	12	5.45	13	70.85		
2a	12	12.00	13	156.00		
2b	12	12.00	13	156.00		
2c	12	5.45	13	70.85		
2d	12	6.30	2	12.60		
2e	12	12.00	2	24.00		
3	14	6.60	104		686.40	
3a	14	6.65	8		53.20	
3b	14	4.30	4		17.20	
4a	12	7.70	13	100.10		
4b	12	12.00	13	156.00		
4c	12	12.00	13	156.00		
4d	12	7.70	13	100.10		
4e	12	6.90	1	6.90		
4f	12	12.00	1	12.00		
4g	12	12.00	2	24.00		
4h	12	6.90	2	13.80		
5	12	1.90	406	771.40		
6	12	0.95	702	666.90		
7	12	1.50	96	144.00		
7a	12	2.45	96	235.20		
8	12	4.25	8	34.00		
9	12	0.65	52	33.80		
10	12	1.15	52	33.80		
11	14	2.85	19		54.15	
12	14	1.80	122		219.60	
13	12	6.30	16	100.80		
13a	12	12.00	16	192.00		
13b	12	12.00	15	180.00		
13c	12	6.30	15	94.50		
14	12	1.15	122	140.30		
15	12	1.85	143	264.55		
16	12	7.25	1	7.25		
16a	12	12.00	1	12.00		
17	12	6.30	2	12.60		
17a	12	12.00	2	24.00		
17b	12	12.00	2	24.00		
17c	12	6.30	2	12.60		
18	12	2.70	143	386.10		
19	12	1.95	14	27.30		
19a	12	1.95	42	81.90		
19b	12	1.85	14	25.90		
Lungimi totale pe diametre			(m)	4564.10	1030.55	530.10
Masa pe metru liniar			(kg/ml)	0.888	1.208	1.578
Masa pe diametre			(kg)	4052.10	1245.40	836.70
Masa pe tip otel			(kg)	5300.00		840.00
Masa totala tablier			(kg)	6140.00		
Pierderi 5%			(kg)	307		
Masa totala tablier linia 2			(kg)	6450.00		

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) $S275J_3G_3$ (EN 10025/2004)
Armatura: Reinforcement:	– S355; S345
Strat de acoperire: Concrete cover	– min. 4cm expunere in aer/air exposed

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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 EURO
EUROPEAN UNION FINANCED PR

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	Şef proiect Project manager	R. Lluzza		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

AREX Lider COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	02.2012	
Întocmit Elaborated	Proiectant Designer	Dinu Andreea	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 : INTERVAL CATA – ARCHITA
POD Km.248+218.877 L=16.00m/PLAN ARMARE SUPRASTRUCTURA TABLIER LINIA 2
BRIDGE Km.248+218.877 L=16.00m/REINFORCEMENT PLAN FOR DECK RAILWAY 2

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

EA51 01 E 14 BC PV 02 8 3 012 0