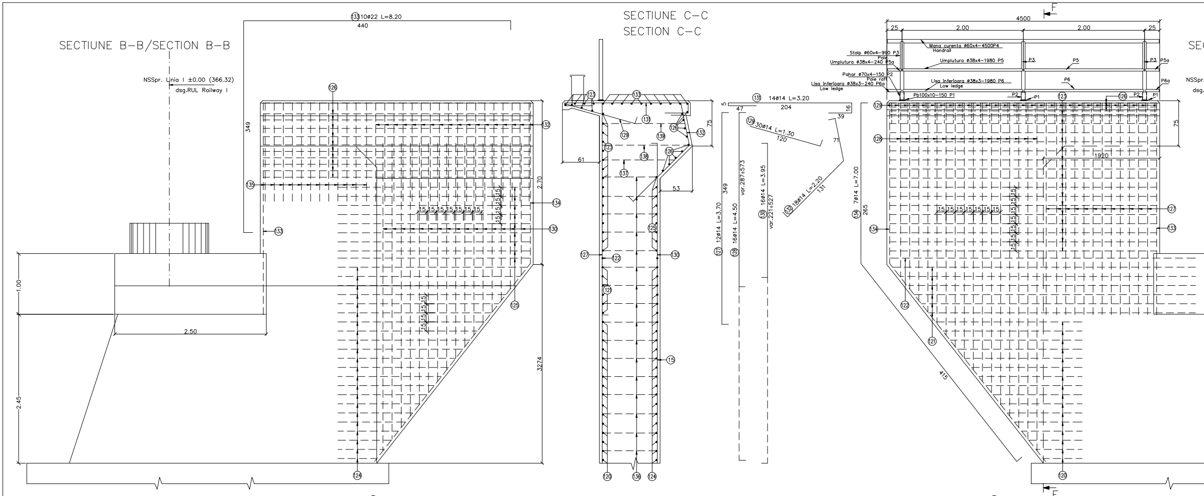
SECTIUNE B-B/SECTION B-B

SECTIUNE C-C
SECTION C-C


(133) 10ø22 L=8.20
440
NSSpr. Linia I ±0.00 (366.32)
dsg.RUL Railway I
349
2.70
3274
1.00
2.45
2.50
15 15 15 15 15 15 15 15
15 15 15 15
(126)
(132)
(135)
(134)
(133)
(130)
(125)
(124)
75
61
53
(123)
(131)
(129)
(139)
(126)
(132)
(138)
(137)
(127)
(122)
(121)
(15)
(120)
(136)
(124)
(131) 14ø14 L=3.20
5
47
204
16
39
(129) 30ø14 L=1.30
120
71
(132) 18ø14 L=2.20
131
(127) 12ø14 L=3.70
349
(128) 16ø14 L=4.50
var.287÷573
(130) 16ø14 L=3.95
var.221÷527
(134) 7ø14 L=7.00
265
415
F
4500
25
2.00
2.00
25
Mana curenta ø60x4-4500P4
Handrail
Stalp ø60x4-990 P3
Pole
Umplutura ø38x4-240 P5a
Umplutura ø38x4-1980 P5
Pahar ø70x4-150 P2
Pole raft
Lisa inferioara ø38x3-240 P6a
Low ledge
Lisa inferioara ø38x3-1980 P6
Low ledge
Pb100x10-150 P1
P1
P2
P3
P5
P5a
P6
P6a
(123)
(126)
(129)
(128)
1920
(127)
(133)
(134)
(122)
(121)
(120)
SEC
NSSpr.
dsg.

NOTA

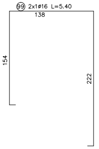
Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m^2.

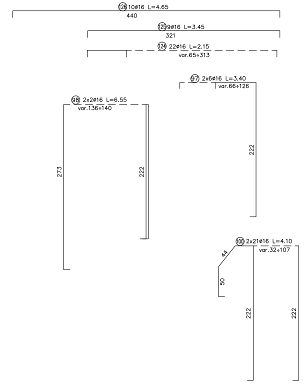
Distantierii trebuie legati cu sarma de carcasa de armatura.

NOTA

In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted.

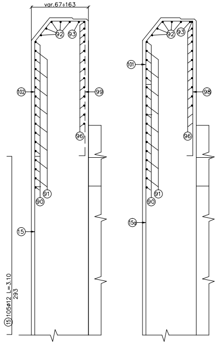
The distance pieces shall be connected to the reinforcing framework, using wire.

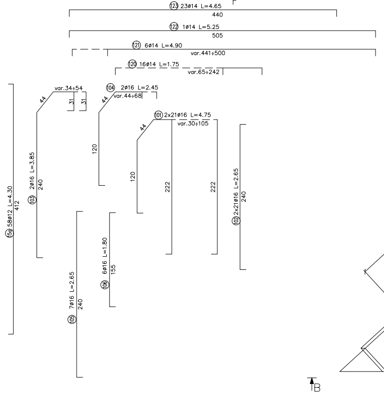

(99) 2x1ø16 L=5.40
138
154
222

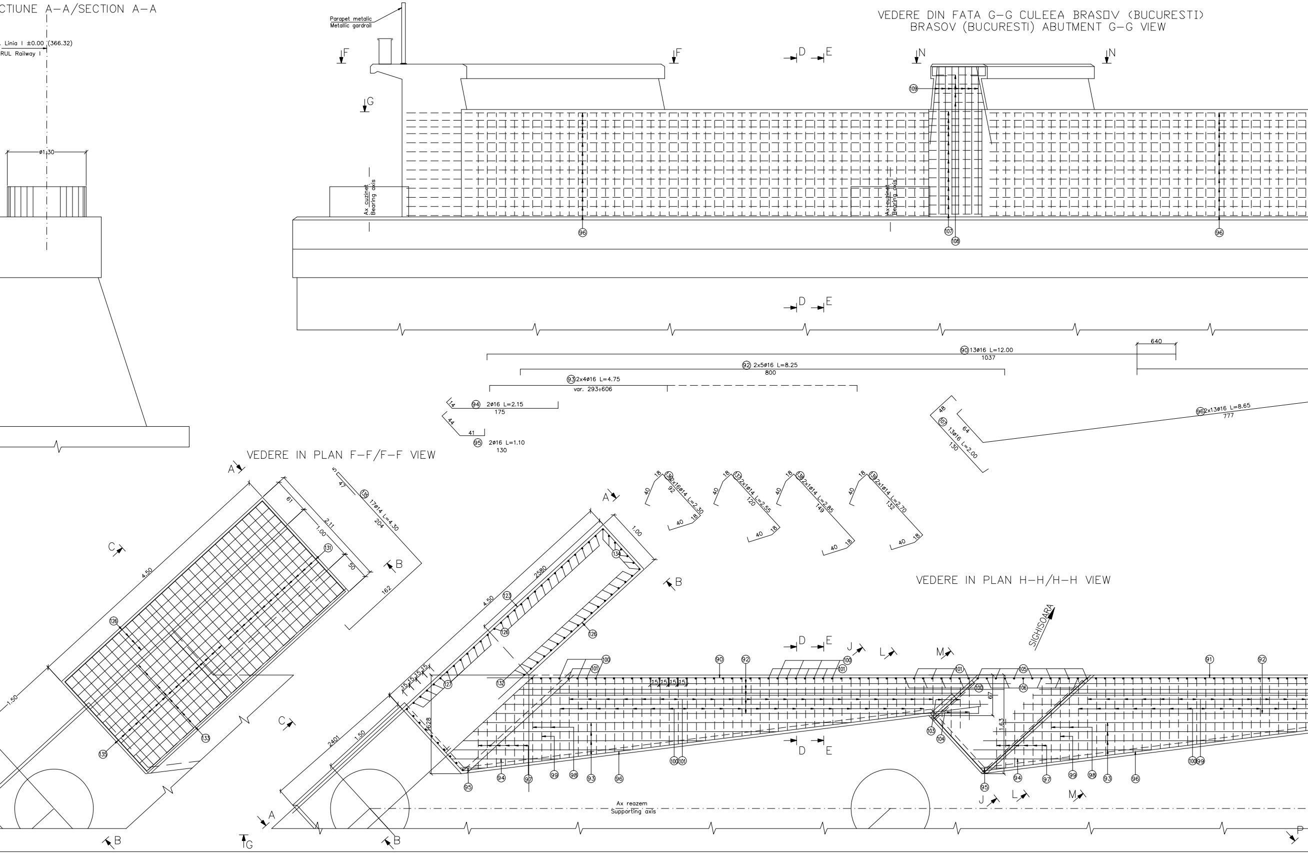

(126) 10ø16 L=4.65
440
(125) 9ø16 L=3.45
321
(124) 22ø16 L=2.15
var.65÷313
(97) 2x6ø16 L=3.40
var.66÷126
222
(98) 2x2ø16 L=6.55
var.136÷140
273
222
(100) 2x21ø16 L=4.10
var.32÷107
44
50
222
222

SECTIUNE D-D
SECTION D-D

SECTIUNE E-E
SECTION E-E


var.67÷163
(92)
(93)
(102)
(99)
(96)
(91)
(90)
(15)
(15) 105ø12 L=3.10
293
(92)
(93)
(101)
(98)
(96)
(91)
(90)
(15a)


(123) 23ø14 L=4.65
440
(122) 1ø14 L=5.25
505
(121) 6ø14 L=4.90
var.441÷500
(120) 16ø14 L=1.75
var.65÷242
(15a) 58ø12 L=4.30
412
var.34÷54
44
31
31
(103) 2ø16 L=3.85
240
(104) 2ø16 L=2.45
var.44÷68
44
120
(101) 2x21ø16 L=4.75
var.30÷105
44
120
222
222
(102) 2x21ø16 L=2.65
240
(105) 7ø16 L=2.65
240
(106) 6ø16 L=1.80
155
B



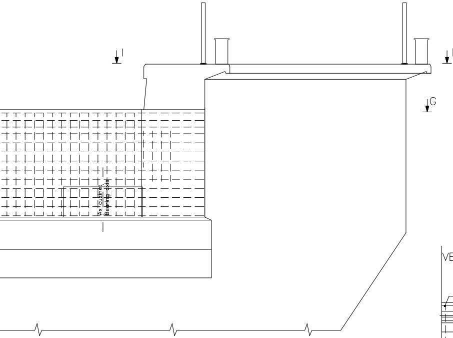
CTIUNE A–A/SECTION A–A

VEDERE DIN FATA G–G CULEEA BRASOV (BUCURESTI)
BRASOV (BUCURESTI) ABUTMENT G–G VIEW

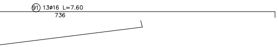
VEDERE IN PLAN F–F/F–F VIEW

VEDERE IN PLAN H–H/H–H VIEW

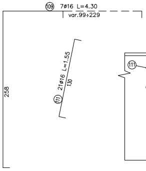
Linia I ±0.00 (366.32)
RUL Railway I
ø1.30
Parapet metalic
Metallic gardrail
F
G
D
E
N
Ax cuzinet
Bearing axis
⑨⑥
⑩⑦
⑩⑧
⑩⑨
⑨⓪ 13ø16 L=12.00
1037
640
⑨② 2x5ø16 L=8.25
800
⑨③ 2x4ø16 L=4.75
var. 293÷606
⑨④ 2ø16 L=2.15
14
175
44
41
⑨⑤ 2ø16 L=1.10
130
48
⑩⑦ 13ø16 L=2.00
64
130
⑨⑥ 2x13ø16 L=8.65
777
18
40
(136) 2x16ø14 L=2.30
92
⑬⑦ 2x1ø14 L=2.55
120
⑬⑧ 2x1ø14 L=2.85
149
⑬⑨ 2x1ø14 L=2.70
132
⑬⑤ 17ø14 L=4.30
204
47
5
A
B
C
61
2.11
1.00
50
162
4.50
1.50
⑬①
⑫⑥
⑬③
⑬⑤
⑬④
2580
⑫③
⑫⑦
⑬②
15
2401
628
SIGHISOARA
J
L
M
⑨①
⑨②
⑨⓪
⑩⓪
⑩①
⑩⑤
⑩⑥
⑩③
⑩④
67
1.63
I
⑨④
⑨⑦
⑨⑨
⑨⑧
⑨③
⑨⑤
Ax reazem
Supporting axis
P



I
I
G
Ax cuzinet
Bearing axis

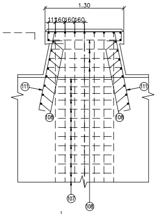


(91) 13ø16 L=7.60
736



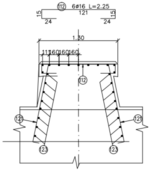
(109) 7ø16 L=4.30
var.99÷229
258
(111) 21ø16 L=1.55
130

VEDERE J–J
J–J VIEW

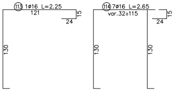


1.30
11 16 16 16 16
(111)
(111)
(108)
(108)
(107)
(108)

SECTIUNE L–L
L–L SECTION

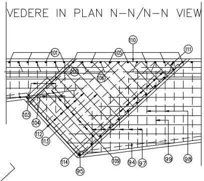


(112) 6ø16 L=2.25
121
15
24
24
15
1.30
11 16 16 16 16
(112)
(121)
(121)
(123)
(123)



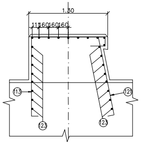
(113) 1ø16 L=2.25
121
15
24
130
(114) 7ø16 L=2.65
var.32÷115
15
24
130
130

VEDERE IN PLAN N–N/N–N VIEW



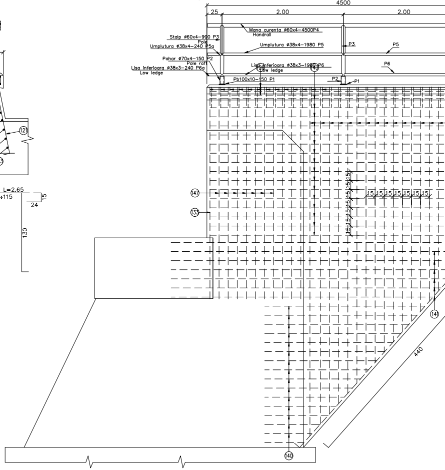
(110)
(101)
(105)
(111)
(100)
(106)
(103)
(104)
(112)
(113)
(114)
(95)
(109)
(94)
(97)
(99)
(98)

SECTIUNE M–M
M–M SECTION

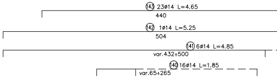


1.30
11 16 16 16 16
(113)
(121)
(123)
(123)

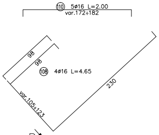
SECTIUNE O–O/SECTION O–O



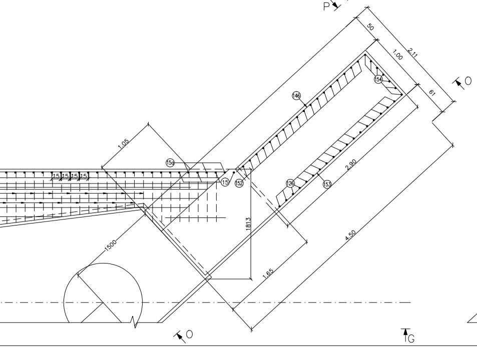
4500
25
2.00
2.00
Mana curenta ø60x4–4500P4
Handrail
Stalp ø60x4–990 P3
Pole
Umplutura ø38x4–240 P5a
Umplutura ø38x4–1980 P5
P3
P5
Pahar ø70x4–150 P2
Pole raft
Lisa inferioara ø38x3–240 P6a
Low ledge
Lisa inferioara ø38x3–1980 P6
Low ledge
P6
Pb100x10–150 P1
P2
P1
(147)
(133)
(143)
15 15 15 15 15 15 15
15 15 15 15 15 15
(141)
440
(140)



(143) 23ø14 L=4.65
440
(142) 1ø14 L=5.25
504
(141) 6ø14 L=4.85
var.432÷500
(140) 16ø14 L=1.85
var.65÷265

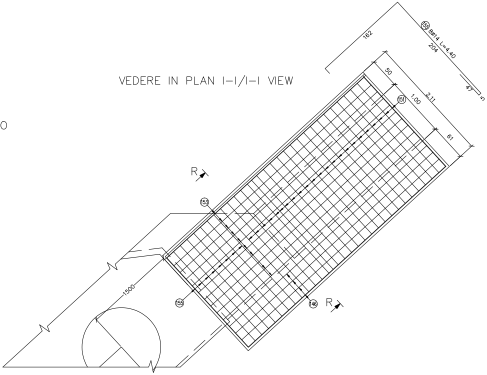


(110) 5ø16 L=2.00
var.172÷182
98
98
(108) 4ø16 L=4.65
230
var.105÷123



P
50
2.11
1.00
61
O
(146)
(154)
1.05
(15a)
15 15 15 15
(15)
(152)
(126)
(153)
2.90
1813
1500
4.50
1.65
O
G

VEDERE IN PLAN I–I/I–I VIEW



162
(155) 8ø14 L=4.40
204
47
5
50
2.11
1.00
(151)
61
R
(153)
1500
(155)
(146)
R

Beton: Concrete:	– C25/30 in elevatiile culeelor in the elevation of nthe abutment
Armatura: Reinforcement:	– S355 (PC 52; ø12–ø14) – S345 (PC 52; ø16–ø22)
Strat de acoperire: Concrete cover	– min. 4cm expunere in aer/air exposed

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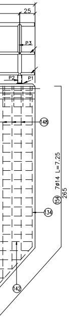
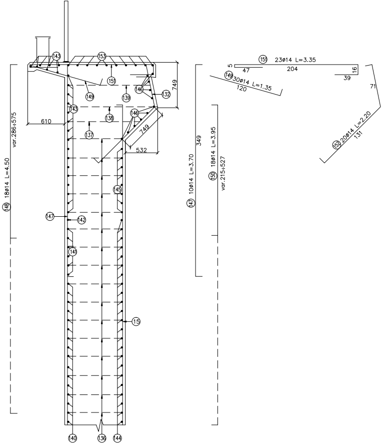
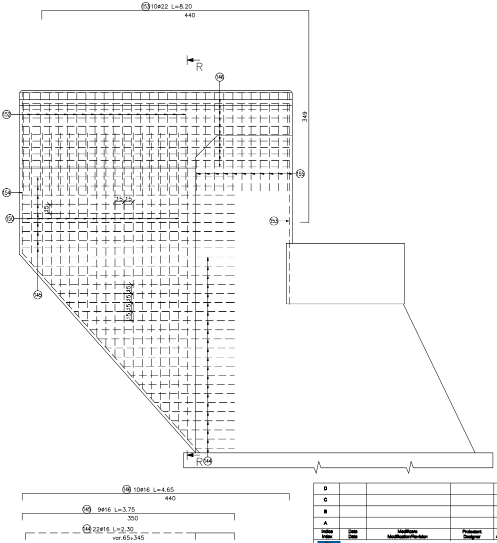

25
P3
P2
P1
148
7ø14 L=7.25
265
154
134
142

SECTIUNE R-R/SECTION R-R


143
153
151
149
139
146
132
749
610
143
138
137
146
749
532
var.286÷575
18ø14 L=4.50
148
145
147
142
141
15
140
136
144
151 23ø14 L=3.35
5
47
204
16
39
71
149 30ø14 L=1.35
120
152 20ø14 L=2.20
131
349
147 10ø14 L=3.70
150 18ø14 L=3.95
var.215÷527

SECTIUNE P-P/SECTION P-P


153 10ø22 L=8.20
440
R
146
152
349
155
154
15 15
15
150
153
145
15 15 15 15
15 15
R
144
146 10ø16 L=4.65
440
145 9ø16 L=3.75
350
144 22ø16 L=2.30
var.65÷345

EXTRAS DE ARMATURA
MEASURING OF THE REINFORCEMENTS

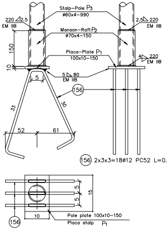
Element	Marca	ø	Nr. Buc.	Lung/buc.	LUNGIME/ø PC 52(S355, S345) ø12	ø14	ø16	ø22
Zid de garda	90	16	13	12.00			156.00	
	91	16	13	7.60			98.80	
	92	16	10	8.25			82.50	
	93	16	8	4.75			38.00	
	94	16	2	2.15			4.30	
	95	16	2	1.10			2.20	
	96	16	26	8.65			224.90	
	97	16	12	4.30			51.60	
	98	16	4	6.65			26.00	
	99	16	2	5.40			10.80	
	100	16	42	4.10			172.20	
	101	16	42	4.75			199.50	
	102	16	42	2.65			111.30	
	103	16	2	3.85			7.70	
	104	16	2	2.45			4.90	
	105	16	7	2.65			18.55	
	106	16	6	1.80			10.80	
	107	16	13	2.00			26.00	
	108	16	4	4.65			18.60	
	109	16	7	4.30			30.10	
	110	16	5	2.00			10.00	
	111	16	21	1.55			32.55	
	112	16	6	2.25			13.50	
	113	16	1	2.25			2.25	
	114	16	7	2.65			18.55	
Ziduri intoarse	120	14	16	1.75		28.00		
	121	14	6	4.90		27.00		
	122	14	1	5.25		5.25		
	123	14	23	4.65		106.95		
	124	16	22	2.15			47.30	
	125	16	9	3.45			31.05	
	126	16	10	4.65			46.50	
	127	14	12	3.70		44.40		
	128	14	16	4.50		72.00		
	129	14	30	1.30		39.00		
	130	14	16	3.95		63.20		
	131	14	14	3.20		44.80		
	132	14	18	2.20		39.60		
	133	22	10	8.20				82.00
	134	14	7	7.00		49.00		
	135	14	17	4.30		73.10		
	136	14	32	2.30		73.60		
	137	14	2	2.55		5.10		
	138	14	2	2.85		5.70		
	139	14	2	2.70		5.40		
	140	14	16	1.85		29.60		
	141	14	6	4.85		29.10		
	142	14	1	5.25		5.25		
	143	14	23	4.65		106.95		
	144	16	22	2.30			50.60	
	145	16	9	3.75			33.75	
	146	16	10	4.65			46.50	
	147	14	10	1.70		17.00		
	148	14	18	4.50		81.00		
	149	14	30	1.35		40.50		
	150	14	18	3.95		71.10		
	151	14	23	3.35		77.05		
	152	14	20	2.20		44.00		
	153	22	10	8.20				82.00
	154	14	7	7.25		50.75		
	155	14	8	4.40		35.20		
	156	12	18	0.85	15.30			
	Lungimi/ø					1269.60	1627.30	164.00
	Greutati/ml				0.888	1.208	1.578	2.984
	Greutati/ø				14	1534	2568	490
	TOTAL						4610	
	Pierderi 5%						230	
	TOTAL GENERAL kg						4840	

MASURATOAREA MATERIALULUI METALIC NECESAR PENTRU PARAPETUL UNEI CULEI
MEASURING THE METALLIC MATERIAL FOR PARAPET OF ONE ABUTMENT

Poz.	Denumirea materialului Piece denomination	Buc. Pcs.	Sectiune Section	Lung. Length. (mm)	Greutati – Weight kg/ml	kg/buc	kg
P1	Placuta prindere pahar – Polate plate	6	100x10	150	7.85	1.18	8
P2	Pahar stalp parapet – Pole raft	6	70x4	150	6.51	0.98	6
P3	Stalp parapet – Pole	6	60x4	990	5.52	5.45	33
P4	Mana curenta – Handrail	2	60x4	4500	5.52	24.84	50
P5	Umplutura	2	38x4	1980	3.35	6.64	14
P5a	Umplutura	2	38x4	240	3.35	0.81	2
P6	Lisa inferioara – Low ledge	2	38x4	1980	3.35	6.64	14
P6a	Lisa inferioara – Low ledge	2	38x4	240	3.35	0.81	2
					Total partial Partial total		129
					Sudura 2% Welding 2%		3
					TOTAL (kg)		132

DETALIU DE PRINDERE A PARAPETULUI
DETAIL ASSEMBLING OF THE PARAPET

Scara 1:5
Scale 1:5


Stalp–Pole P3
ø60x4–990
220 2.5
EM IIB
2.5 220
EM IIB
Manson–Raft P2
ø70x4–150
150
10
Placa–Plate P1
100x10–150
4 220
EM IIB
5
5 80
EM IIB
156
33
30
52
61
5
5
15
10
156
Pole plate 100x10–150
Placa stalp P1

156 2x3x3=18ø12 PC52 L=0.85

Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approval Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A					

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	Şef proiect Project manager	R. Liuzza	02.2012	
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli	02.2012	
Verificat Checked	Expert Cheie Checking Expert	V.Kallidromitis	02.2012	

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Dinulescu Stanciu	02.2012	
Întocmit Elaborated	Proiectant Designer	Maria Campan	02.2012	

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:
P.Th. / T.D.

Denumire desen / Drawing Title : Interval Statia Albesti
POD km 277+798.279 -G.Z.C.J.C.B. D=38.00m
ARMARE CULEEA SIGHISOARA–ZID DE GARDA SI ZIDURI INTOARSE
BRIDGE km 277+798.279 - D=38.00m
REINFORCEMENT SIGHISOARA ABUTMENT–THE GUARD WALL AND THE REVERTED WALLS

Codificare / Codification System

Scara / Scale 1:25
LOT / LOT
Nr. / No 01 / 01

E A 5 1 | 0 1 | E | 1 9 | B C | P V | 0 4 | 4 | 2 | 0 1 1 | 0

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