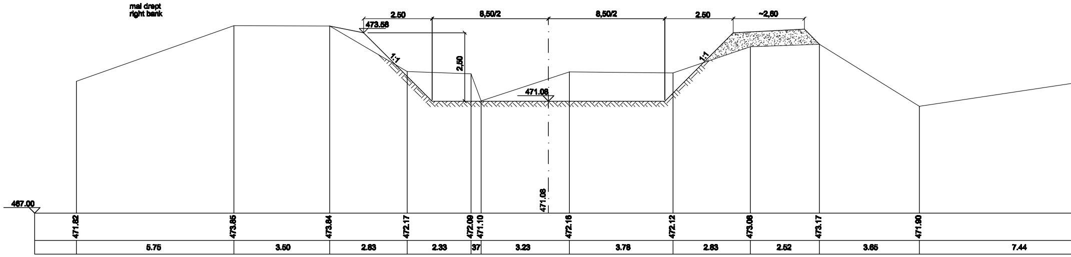
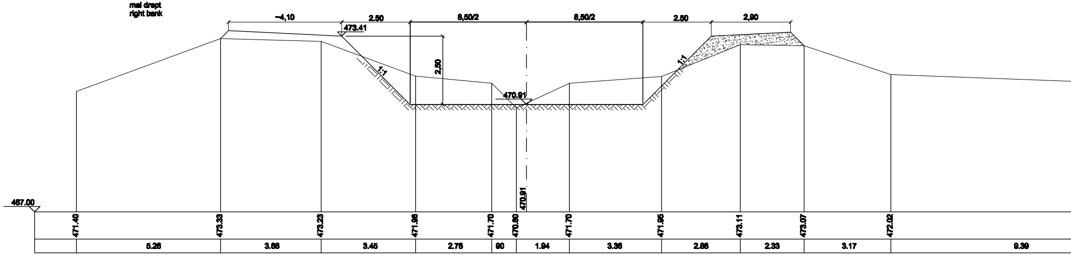
PROFIL 1

la 84,70 m amonte de ax pod c.f. proiectat
at 84,70 m upstream of the railway bridge desined axis


mal drept
right bank
2.50
8,50/2
8,50/2
2.50
~2,60
473.58
1:1
2,50
1:1
471.08
467.00
471.82
473.85
473.84
472.17
472.09
471.10
471.08
472.16
472.12
473.08
473.17
471.90
5.75
3.50
2.83
2.33
37
3.23
3.78
2.83
2.52
3.65
7.44

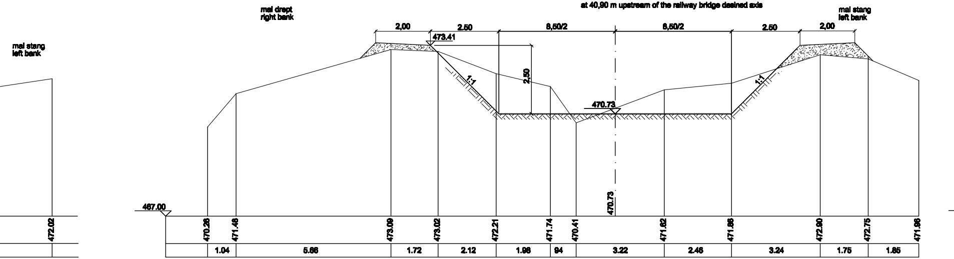
PROFIL 2

la 63,30 m amonte de ax pod c.f. proiectat
at 63,30 m upstream of the railway bridge desined axis


mal drept
right bank
~4,10
2.50
8,50/2
8,50/2
2.50
2,90
473.41
2,50
1:1
1:1
470.91
467.00
471.40
473.33
473.23
471.98
471.70
470.80
470.91
471.70
471.85
473.11
473.07
472.02
5.26
3.68
3.45
2.78
90
1.94
3.36
2.88
2.33
3.17
9.39

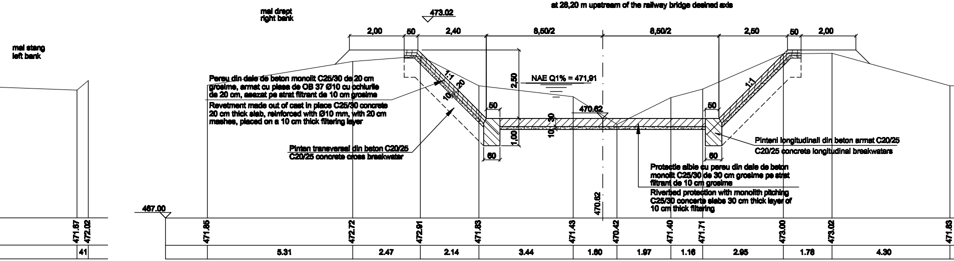
PROFIL 3

la 40,90 m amonte de ax pod c.f. proiectat
at 40,90 m upstream of the railway bridge desined axis

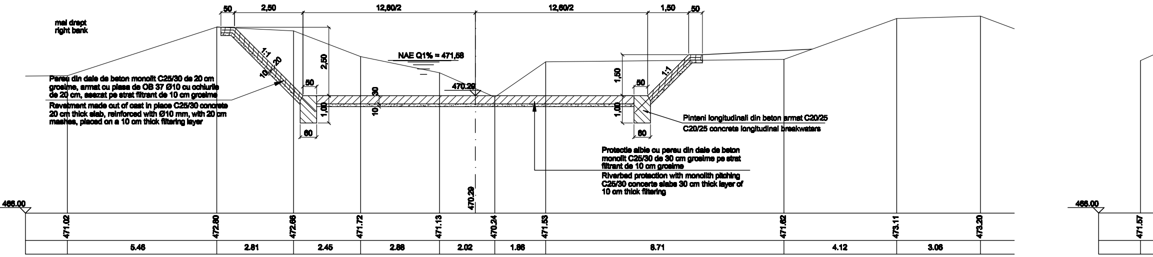

mal drept
right bank
mal stang
left bank
mal stang
left bank
2,00
2.50
8,50/2
8,50/2
2.50
2,00
473.41
2,50
1:1
1:1
470.73
470.73
467.00
472.02
470.26
471.48
473.09
473.02
472.21
471.74
470.41
471.62
471.86
472.90
472.75
471.96
1.04
5.66
1.72
2.12
1.96
94
3.22
2.46
3.24
1.75
1.85

PROFIL 4

la 28,20 m amonte de ax pod c.f. proiectat
at 28,20 m upstream of the railway bridge desined axis


mal drept
right bank
mal stang
left bank
473.02
2,00
50
2,40
8,50/2
8,50/2
2,50
50
2,00
Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with Ø10 mm, with 20 cm meshes, placed on a 10 cm thick filtering layer
1:1
20
10
2,50
NAE Q1% = 471,91
470.62
50
30
10
1,00
60
50
60
1:1
Pinten transversal din beton C20/25
C20/25 concrete cross breakwater
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime
Riverbed protection with monolith pitching C25/30 concerte slabe 30 cm thick layer of 10 cm thick filtering
470.62
467.00
471.67
472.02
41
471.85
472.72
472.91
471.53
471.43
470.42
471.40
471.71
473.00
473.02
471.83
5.31
2.47
2.14
3.44
1.60
1.97
1.16
2.95
1.78
4.30

PROFIL 5
la 13,30 m aval de ax pod c.f. proiectat
at 13,30 m downstream of the railway bridge desined axis



mal drept
right bank
mal stang
left bank
50
2,50
12,60/2
12,60/2
1,50
50
1:1
20
10
2,50
NAE Q1% = 471,56
470.29
50
30
1,00
10
60
1,50
50
1:1
1,00
60
466.00
471.02
472.80
472.66
471.72
471.13
470.29
470.24
471.53
471.62
473.11
473.20
466.00
471.57
5.46
2.81
2.45
2.88
2.02
1.86
8.71
4.12
3.06

Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime

Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with Ø10 mm, with 20 cm meshes, placed on a 10 cm thick filtering layer

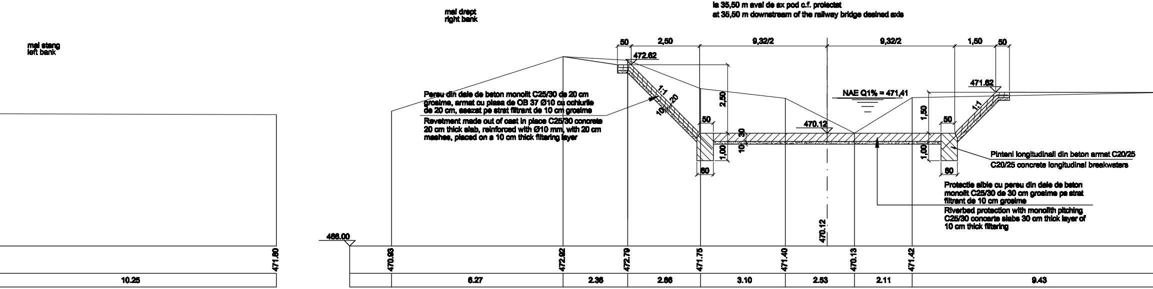
Pinteni longitudinali din beton armat C20/25

C20/25 concrete longitudinal breakwaters

Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime

Riverbed protection with monolith pitching C25/30 concerte slabs 30 cm thick layer of 10 cm thick filtering

PROFIL 6
la 35,50 m aval de ax pod c.f. proiectat
at 35,50 m downstream of the railway bridge desined axis



mal stang
left bank
mal drept
right bank
50
2,50
9,32/2
9,32/2
1,50
50
472.62
1:1
20
10
2,50
NAE Q1% = 471,41
471.62
50
470.12
30
1,00
10
60
1,50
50
1:1
1,00
60
466.00
471.80
10.25
470.93
472.92
472.79
471.75
471.40
470.12
470.13
471.42
6.27
2.36
2.86
3.10
2.53
2.11
9.43

Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime

Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with Ø10 mm, with 20 cm meshes, placed on a 10 cm thick filtering layer

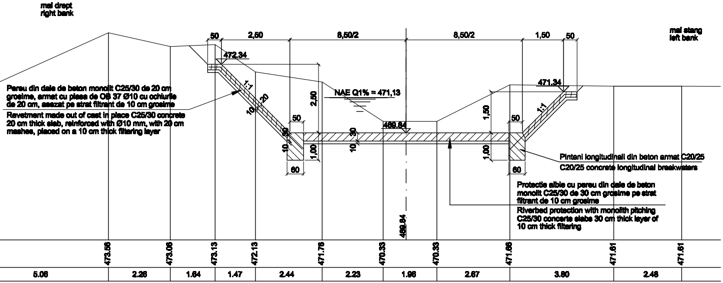
Pinteni longitudinali din beton armat C20/25

C20/25 concrete longitudinal breakwaters

Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime

Riverbed protection with monolith pitching C25/30 concerte slabs 30 cm thick layer of 10 cm thick filtering

PROFIL 7
la 70,00 m aval de ax pod c.f. proiectat
at 70,00 m downstream of the railway bridge desined axis


mal drept
right bank
mal stang
left bank
50
2,50
8,50/2
8,50/2
1,50
50
472,34
471,34
1:1
20
10
2,50
NAE Q1% = 471,13
469,84
1,50
50
50
30
10
1,00
60
10
30
1,00
1,00
60
1:1
469.84
473.56
473.06
473.13
472.13
471.76
470.33
470.33
471.68
471.61
471.61
5.06
2.26
1.64
1.47
2.44
2.23
1.96
2.67
3.80
2.48

Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime

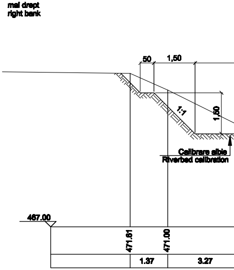
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with Ø10 mm, with 20 cm mashes, placed on a 10 cm thick filtering layer

Pinteni longitudinali din beton armat C20/25

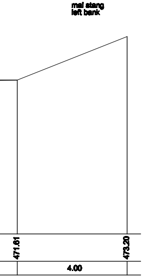
C20/25 concrete longitudinal breakwaters

Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime

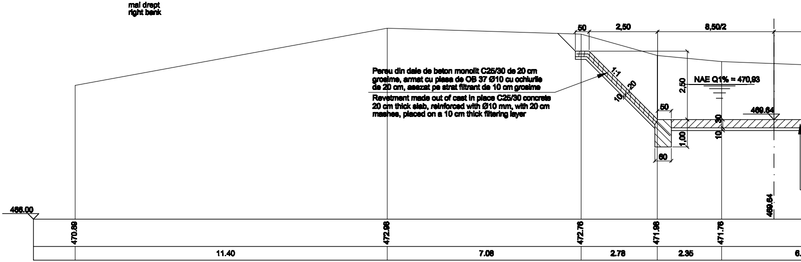
Riverbed protection with monolith pitching C25/30 concerte slabs 30 cm thick layer of 10 cm thick filtering


mal drept
right bank
50
1,50
1:1
1,50
467.00
471.61
471.00
1.37
3.27

Calibrare albie
Riverbed calibration


mal stang
left bank
471.61
473.20
4.00

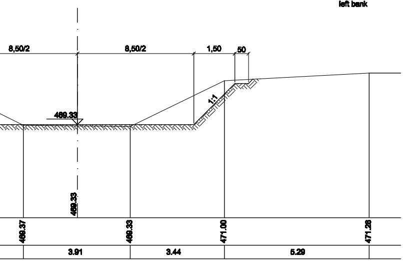
PROFIL 8
la 94,50 m aval de
at 94,50 m downst


mal drept
right bank
50
2,50
8,50/2
1:1
20
10
2,50
NAE Q1% = 470,93
50
469.64
30
10
1,00
60
469.64
466.00
470.89
472.98
472.76
471.98
471.76
11.40
7.08
2.78
2.35
6.

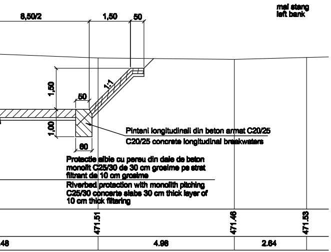
Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime

Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with Ø10 mm, with 20 cm mashes, placed on a 10 cm thick filtering layer

PROFIL 9
la 134,30 m aval de ax pod c.f. proiectat
at 134,30 m downstream of the railway bridge desined axis


mal stang
left bank
8,50/2
8,50/2
1,50
50
1:1
469.33
469.33
469.37
469.33
471.00
471.28
3.91
3.44
5.29

ax pod c.f. proiectat
ream of the railway bridge desined axis


mal stang
left bank
8,50/2
1,50
50
1,50
50
1:1
1,00
60
Pinteni longitudinali din beton armat C20/25
C20/25 concrete longitudinal breakwaters
Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime
Riverbed protection with monolith pitching C25/30 concerte slabe 30 cm thick layer of 10 cm thick filtering
471.51
471.46
471.53
48
4.98
2.64

D					
C					
B					
A	11.2011	Revizia A	Popescu Anca Raluca		
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANTAT DE UNIUNEA EUROPEANA
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	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		

SUBCONTRACTANT / SUBCONTRACTOR

AREX

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Dinulescu Stanciu		
Întocmit Elaborated	Proiectant Designer	Popescu Anca-Raluca	25.10.2011	

Reabilitarea liniei **de cale ferata** Brasov – 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. / P.Th

Denumire desen / Drawing Title :

INTERVAL APAŢA - RACOŞ/APAŢA - RACOŞ SECTION
PROTECTIE POD C.F. KM. 209+649.912
PROFILE TRANSVERSALE
209+649.912 KM RAILWAY BRIDGE PROTECTION
CROSS SECTION

Codificare / Codification System

Scara / Scale 1:100

LOT / LOT

Nr. / No 01 / 01

EA51 01 C 10 WA AP 01 1 3 002 1