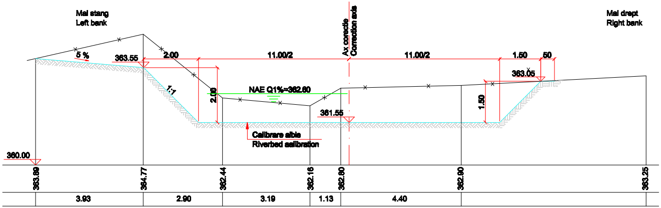
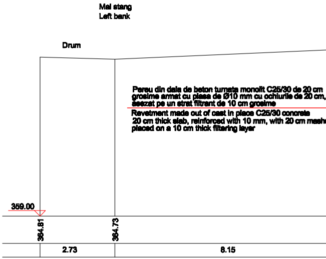
PROFIL 1
la 90.10 m aval fata de ax c.f. 1
at 90.10 m downstream from the railway axis 1

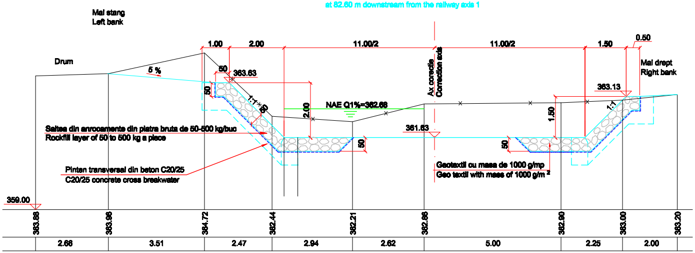

Mal stang
Left bank
Mal drept
Right bank
Ax corectie
Correction axis
5 %
363.55
2.00
11.00/2
11.00/2
1.50
50
363.05
1:1
2.00
NAE Q1%=362.60
1.50
361.55
Calibrare albie
Riverbed calibration
360.00
363.89
364.77
362.44
362.16
362.80
362.90
363.25
3.93
2.90
3.19
1.13
4.40

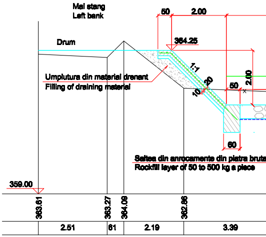

Mal stang
Left bank
Drum
359.00
364.81
364.73
2.73
8.15

Pereu din dala de beton turnata monolit C25/30 de 20 cm grosime armat cu plasa de Ø10 mm cu ochiurile de 20 cm, asezat pe un strat filtrant de 10 cm grosime

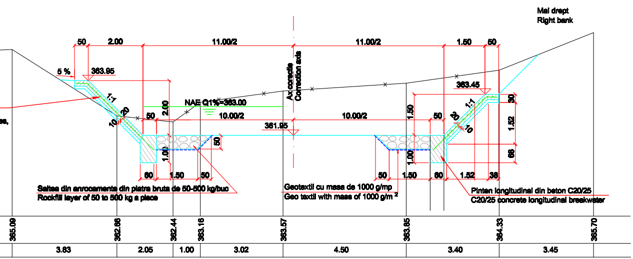
Revetment made out of cast in place C25/30 concrete 20 cm thick slab, reinforced with 10 mm, with 20 cm meshe placed on a 10 cm thick filtering layer

PROFIL 2
la 82.60 m aval fata de ax c.f. 1
at 82.60 m downstream from the railway axis 1

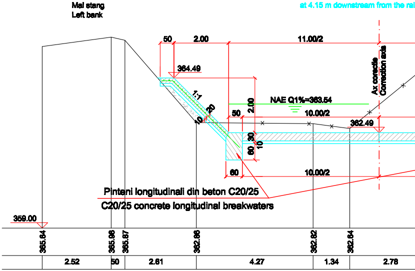

Mal stang
Left bank
Drum
5 %
1.00
2.00
11.00/2
11.00/2
1.50
0.50
Ax corectie
Correction axis
Mal drept
Right bank
50
363.63
50
1:1
50
2.00
NAE Q1%=362.68
363.13
1.50
1:1
361.63
50
50
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a piece
Pinten transversal din beton C20/25
C20/25 concrete cross breakwater
Geotextil cu masa de 1000 g/mp
Geo textil with mass of 1000 g/m ²
359.00
363.68
363.96
364.72
362.44
362.21
362.86
362.90
363.00
363.20
2.66
3.51
2.47
2.94
2.62
5.00
2.25
2.00


Mal stang
Left bank
Drum
50
2.00
364.25
1:1
20
10
2.00
50
60
Umplutura din material drenant
Filling of draining material
Saltea din anrocamente din piatra bruta
Rockfill layer of 50 to 500 kg a piece
359.00
363.61
363.27
364.09
362.86
2.51
61
2.19
3.39

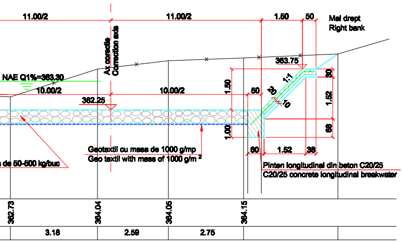
PROFIL 3
la 53.20 m aval fata de ax c.f. 1
at 53.20 m downstream from the railway axis 1


Mal drept
Right bank
50
2.00
11.00/2
11.00/2
1.50
50
5 %
363.95
1:1
10
20
2.00
50
NAE Q1%=363.00
10.00/2
Ax corectie
Correction axis
10.00/2
361.95
1.50
50
363.45
1:1
20
10
30
1.52
68
50
1.00
1.00
60
1.50
50
50
1.50
60
1.52
38
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a piece
Geotextil cu masa de 1000 g/mp
Geo textil with mass of 1000 g/m 2
Pinten longitudinal din beton C20/25
C20/25 concrete longitudinal breakwater
365.09
362.88
362.44
363.16
363.57
363.65
364.33
365.70
3.83
2.05
1.00
3.02
4.50
3.40
3.45

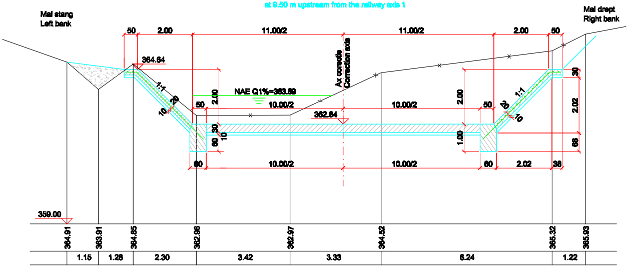
PROFIL 6
la 4.15 m aval fata de ax c.f. 1
at 4.15 m downstream from the ra


Mal stang
Left bank
50
2.00
11.00/2
364.49
1:1
20
10
Ax corectie
Correction axis
NAE Q1%=363.54
2.00
50
10.00/2
362.49
30
10
60
60
10.00/2
Pinteni longitudinali din beton C20/25
C20/25 concrete longitudinal breakwaters
359.00
365.64
365.96
365.87
362.98
362.62
362.64
2.52
50
2.61
4.27
1.34
2.78

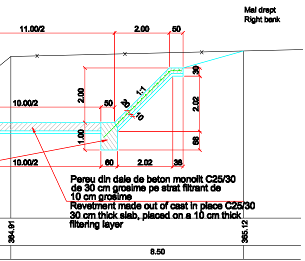
PROFIL 4
la 26.00 m aval fata de ax c.f. 1
at 26.00 m downstream from the railway axis 1


11.00/2
11.00/2
1.50
50
Mal drept
Right bank
Ax corectie
Correction axis
363.75
NAE Q1%=363.30
1.50
1:1
30
10.00/2
10.00/2
50
20
10
1.52
362.25
68
1.00
Geotextil cu masa de 1000 g/mp
Geo textil with mass of 1000 g/m 2
60
1.52
38
a de 50-500 kg/buc
Pinten longitudinal din beton C20/25
C20/25 concrete longitudinal breakwater
362.73
364.04
364.05
364.15
3.18
2.59
2.75

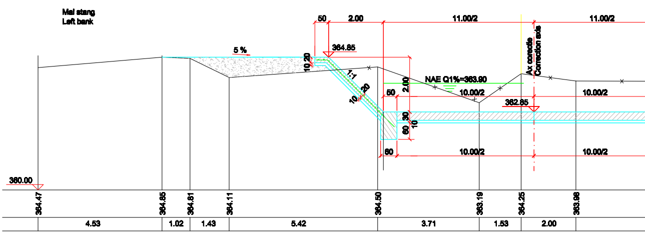
PROFIL 7
la 9.50 m amonte fata de ax c.f. 1
at 9.50 m upstream from the railway axis 1


Mal stang
Left bank
Mal drept
Right bank
50
2.00
11.00/2
11.00/2
2.00
50
364.64
1:1
20
10
Ax corectie
Correction axis
NAE Q1%=363.69
2.00
50
10.00/2
10.00/2
2.00
50
20
1:1
10
30
362.64
30
10
60
1.00
2.02
68
60
10.00/2
10.00/2
60
2.02
38
359.00
364.91
363.91
364.85
362.96
362.97
364.52
365.32
365.93
1.15
1.28
2.30
3.42
3.33
6.24
1.22

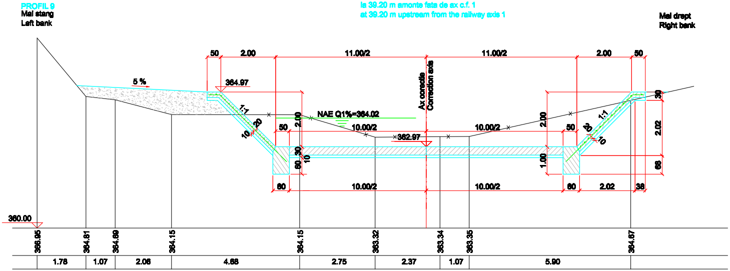
lway axis 1

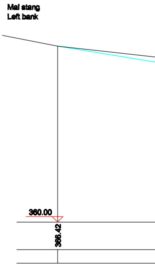

Mal drept
Right bank
11.00/2
2.00
50
2.00
30
1:1
10.00/2
50
20
10
2.02
1.00
68
10.00/2
60
2.02
36
Pereu din dale de beton monolit C25/30
de 30 cm grosime pe strat filtrant de
10 cm grosime
Revetment made out of cast in place C25/30
30 cm thick slab, placed on a 10 cm thick
filtering layer
364.91
365.12
8.50

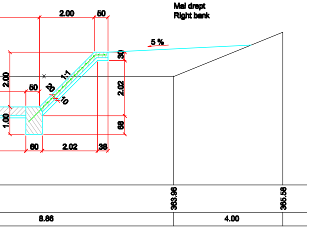
PROFIL 8
la 26.60 m amonte fata de ax c.f. 1
at 26.60 m upstream from the railway axis 1


Mal stang
Left bank
50
2.00
11.00/2
11.00/2
364.85
5 %
10
20
1:1
20
10
NAE Q1%=363.90
50
2.00
10.00/2
10.00/2
362.85
30
10
60
60
10.00/2
10.00/2
Ax corectie
Correction axis
360.00
364.47
364.85
364.81
364.11
364.50
363.19
364.25
363.98
4.53
1.02
1.43
5.42
3.71
1.53
2.00

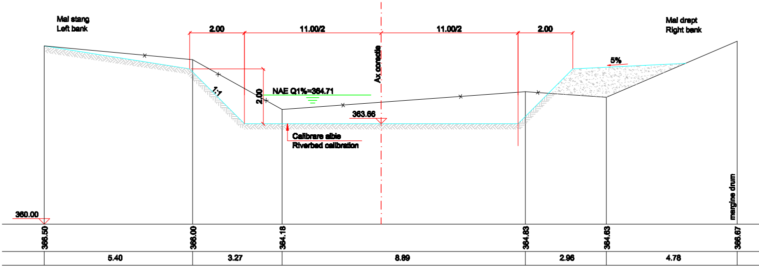
PROFIL 9
la 39.20 m amonte fata de ax c.f. 1
at 39.20 m upstream from the railway axis 1


PROFIL 9
Mal stang
Left bank
Mal drept
Right bank
50
2.00
11.00/2
11.00/2
2.00
50
364.97
5 %
1:1
20
10
NAE Q1%=364.02
50
2.00
30
10
60
10.00/2
10.00/2
362.97
Ax corectie
Correction axis
2.00
50
20
10
1:1
30
2.02
1.00
68
60
10.00/2
10.00/2
60
2.02
36
360.00
366.95
364.81
364.69
364.15
364.15
363.32
363.34
363.35
364.67
1.78
1.07
2.06
4.68
2.75
2.37
1.07
5.90

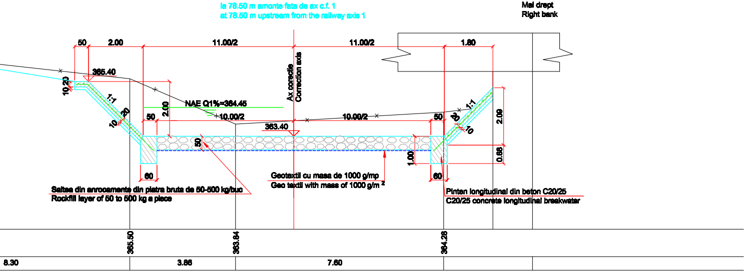

Mal stang
Left bank
360.00
366.42


Mal drept
Right bank
2.00
50
5 %
2.00
50
1:1
20
10
30
2.02
1.00
68
60
2.02
38
363.96
365.58
8.86
4.00

PROFIL 11
la 102.00 m amonte fata de ax c.f. 1
at 102.00 m upstream from the railway axis 1


Mal stang
Left bank
Mal drept
Right bank
2.00
11.00/2
11.00/2
2.00
Ax corectie
5%
1:1
2.00
NAE Q1%=364.71
363.66
Calibrare albie
Riverbed calibration
margine drum
360.00
366.50
366.00
364.18
364.83
364.63
366.67
5.40
3.27
8.89
2.96
4.78

PROFIL 10
la 78.50 m amonte fata de ax c.f. 1
at 78.50 m upstream from the railway axis 1


Mal drept
Right bank
50
2.00
11.00/2
11.00/2
1.80
365.40
10
20
1:1
20
10
Ax corectie
Correction axis
NAE Q1%=364.45
2.00
50
10.00/2
10.00/2
50
1:1
20
10
2.09
363.40
50
1.00
0.68
60
60
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a piece
Geotextil cu masa de 1000 g/mp
Geo textil with mass of 1000 g/m 2
Pinten longitudinal din beton C20/25
C20/25 concrete longitudinal breakwater
365.50
363.84
364.28
8.30
3.86
7.60

| | | | | | |
|---|---|---|---|---|---|
| D | | | | | |
| C | | | | | |
| B | | | | | |
| A | 11.2011 | Revizia 1 | Popescu Anca Raluca | | |
| Indice<br>Index | Data<br>Date | Modificare<br>Modification/Revision | Proiectant<br>Designer | Aprobat Consultant<br>Approved Consultant | Aprobat CFR<br>Approved CFR |

**GUVERNUL ROMANIEI**
**ROMANIAN GOVERNMENT**

**PROIECT FINANŢAT DE UNIUNEA EURO**
**EUROPEAN UNION FINANCED PR**

CFR

**C.N.C.F. "C.F.R." - S.A.**

**CLIENT / CLIENT**

ITALFERR
GRUPPO FERROVIE DELLO STATO
*Joint Venture leader*

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

**CONSULTANT / CONSULTANT**

| | | | Data<br>Date | Semnătură<br>Signature |
|---|---|---|---|---|
| Aprobat<br>Approved | Şef proiect<br>Project manager | R. Liuzza | | |
| Aprobat<br>Approved | Coordonator Secţiune 1<br>Section 1 Coordinator | C. Gambelli | | |
| Verificat<br>Checked | Expert Cheie<br>Checking Expert | Vassili Kallidromitis | | VK |

**SUBCONTRACTANT / SUBCONTRACTOR**

AREX COMPANY

| | | | | |
|---|---|---|---|---|
| Aprobat<br>Approved | **Responsabil** S**ubcon**tractant<br>S**ubcon**tractor **Responsible** | A.Stanciu – Dinulescu | | |
| **Întocmit**<br>**Elaborated** | Proiectant<br>Designer | Popescu Anca–Raluca | 24.02.2011 | |

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. / T.D.
D.E. / E.D.

Denumire desen / Drawing Title :

**STATIA ALBESTI / ALBESTI STATION**
**PROTECTIE POD C.F. KM. 277+798.279**
**SECTIUNI TRANSVERSALE**
**277+798.279 KM RAILWAY BRIDGE PROTECTION**
**CROSS SECTIONS**

| Codificare / Codification System | Scara / Scale<br>1:100 | **LOT / LOT** | Nr. / No<br>01 / 01 |
|---|---|---|---|

EA51 01 E 19 W9 AP 03 1 3 003 1