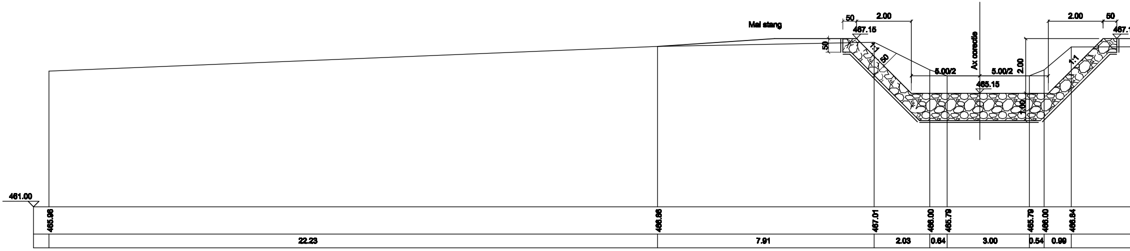
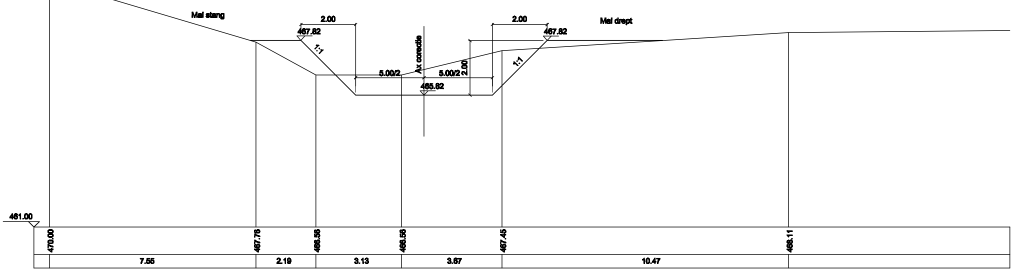
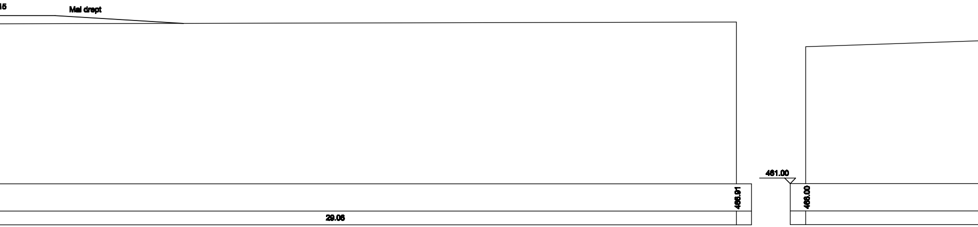
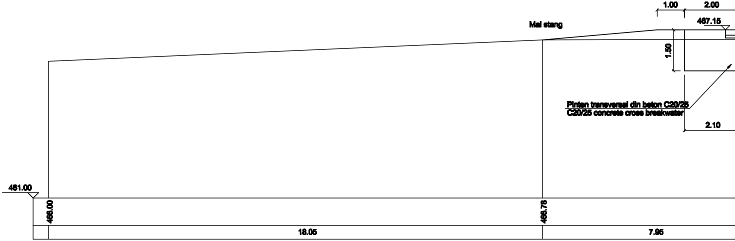
PROFIL/CROSS SECTION 9-9
RACORDARE CU SALTEA DIN ANROCAMENTE
la 22.42 m amonte de fir II pod c.f. proiectat
CONNECTION WITH MATTRESS ROCKFILL
to 22.42 m upstream of bridge wire II c.f. designed


Mal stang
50
2.00
2.00
50
467.15
467.1
50
1:1
50
Ax corectie
5.00/2
5.00/2
2.00
465.15
1.00
1:1
461.00
465.96
466.86
467.01
466.00
465.79
465.79
466.00
466.94
22.23
7.91
2.03
0.64
3.00
0.54
0.99

PROFIL/CROSS SECTION 10-10
44.67 m în amonte de fir II pod c.f. proiectat
44.67 m upstream from the bridge wire II c.f. designed

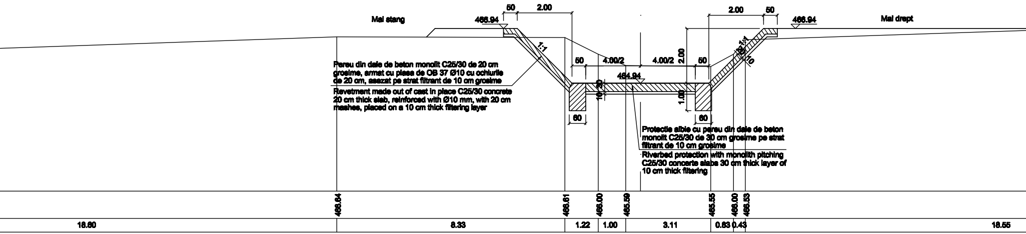

Mal stang
Mal drept
2.00
2.00
467.82
467.82
1:1
1:1
Ax corectie
5.00/2
5.00/2
2.00
465.82
461.00
470.00
467.76
466.56
466.56
467.45
468.11
7.55
2.19
3.13
3.67
10.47


15
Mal drept
461.00
466.91
466.00
29.06


Pinten transversal din beton C20/25
C20/25 concrete cross breakwater
1.00
2.00
467.15
Mal stang
1.50
2.10
461.00
466.00
466.78
18.05
7.95

PROFIL/CROSS SECTION 7-7

4.77 m in amonte de fir II pod c.f. proiectat
4.77 m upstream from the bridge wire II c.f. designed
Scara/scale 1:100



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

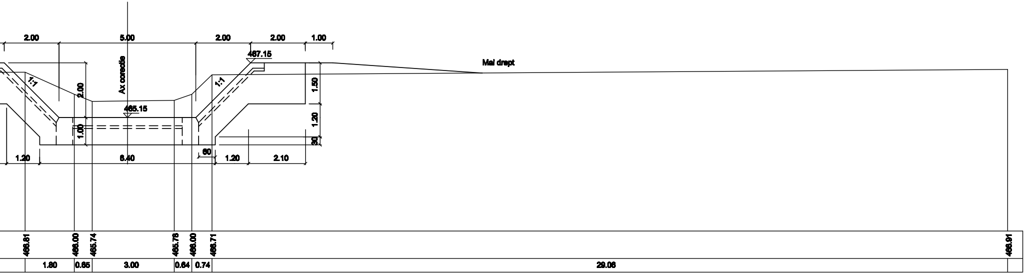
Protectie albie cu pereu din dale de beton monolit C25/30 de 30 cm grosime pe strat filtrant de 10 cm grosime

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

Mal stang
Mal drept
466.94
466.94
50
2.00
2.00
50
1:1
1:1
50
4.00/2
4.00/2
2.00
50
464.94
10
20
1.00
60
60
10
466.64
466.61
466.00
465.59
465.55
466.00
466.53
18.60
8.33
1.22
1.00
3.11
0.83
0.43
18.55

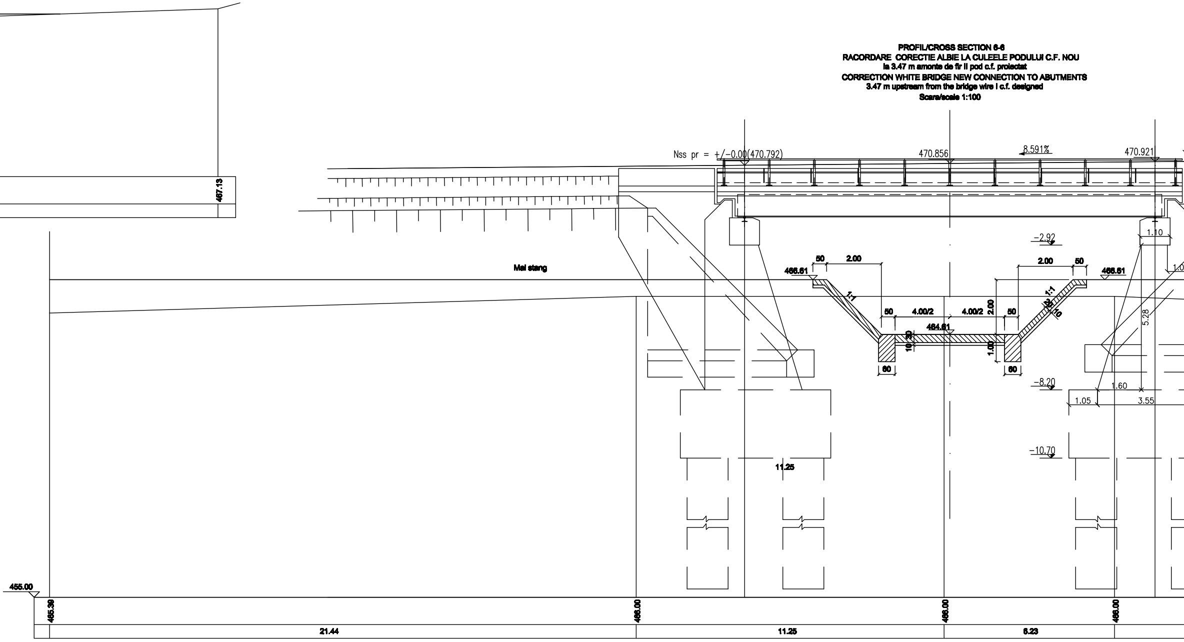
PROFIL/CROSS SECTION 8-8

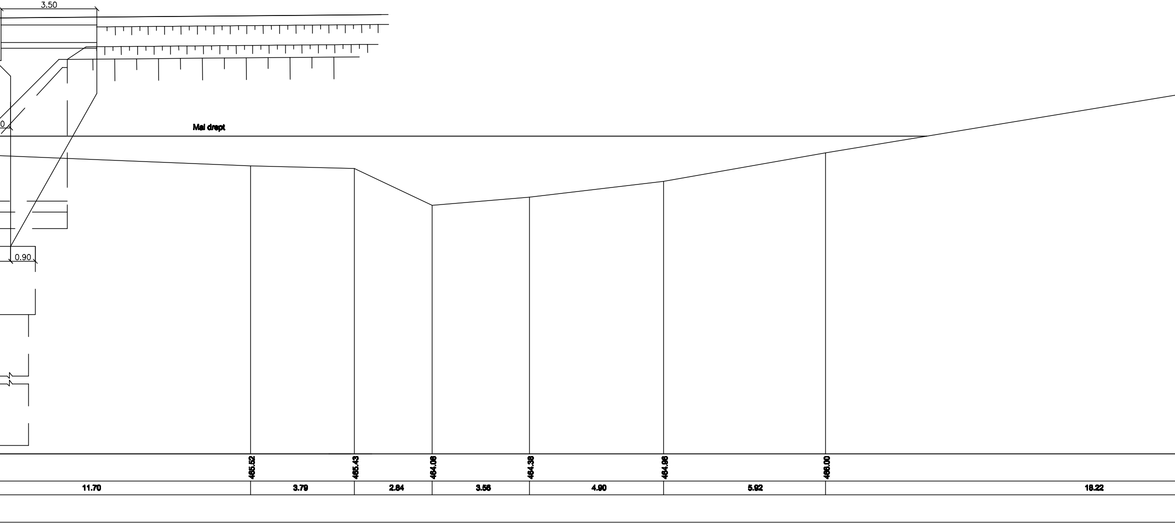
PINTEN INCASTRARE PEREU CAP AMONTE
22.42 m in amonte de fir II pod c.f. proiectat
SPURS RECESSED PITCHING CAP UPSTREAM
22.42 m upstream from the bridge wire II c.f. designed

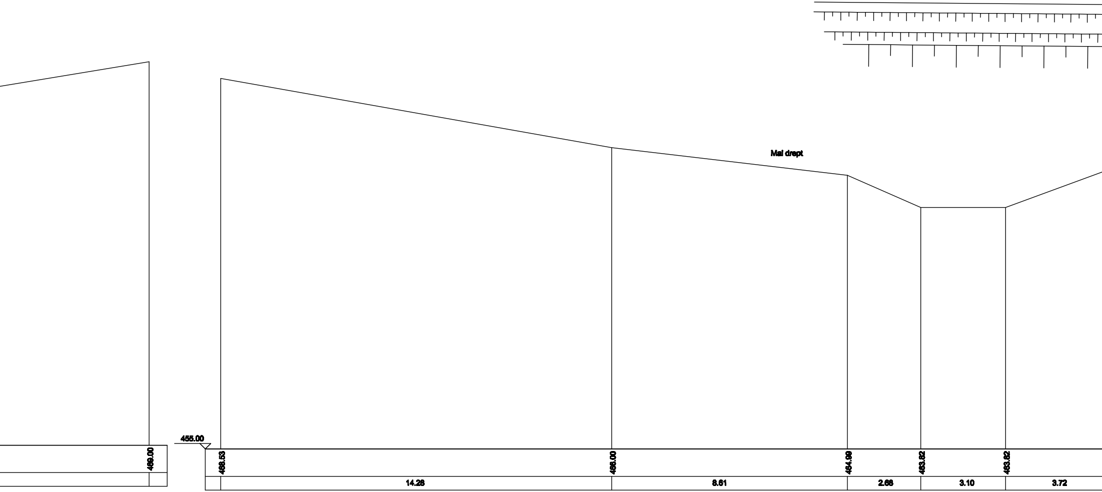


Mal drept
Ax corectie
2.00
5.00
2.00
2.00
1.00
467.15
1:1
1:1
2.00
465.15
1.00
1.50
1.20
30
60
1.20
6.40
1.20
2.10
466.81
466.00
465.74
465.76
466.00
466.71
466.91
1.80
0.65
3.00
0.64
0.74
29.06

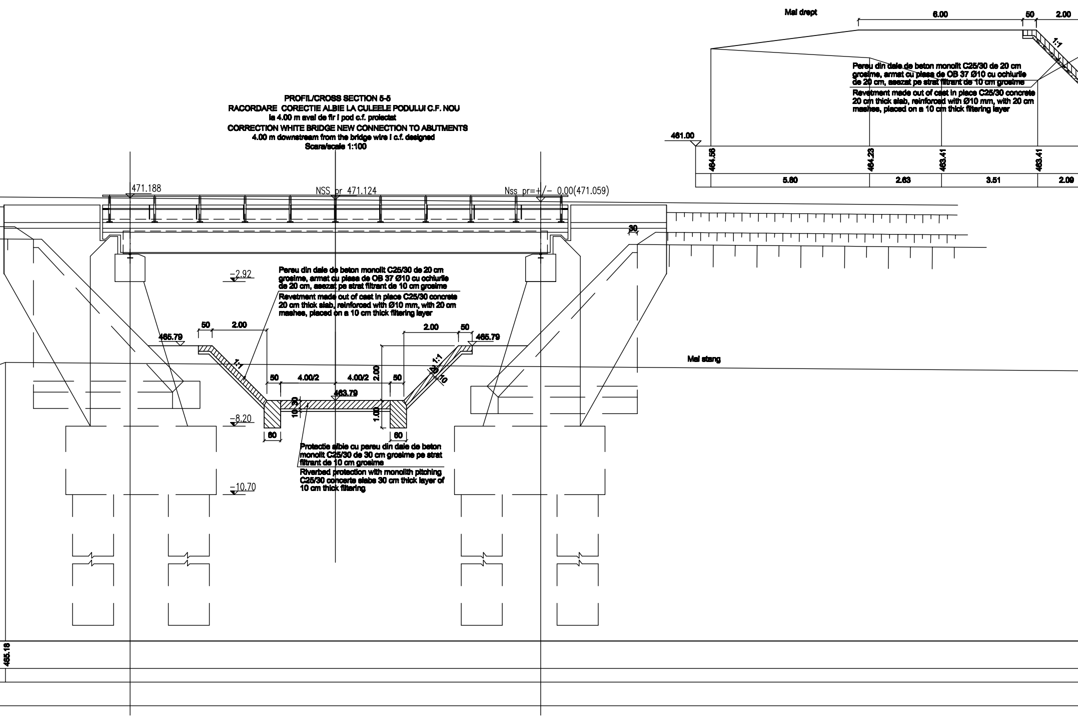
PROFIL/CROSS SECTION 6-6
RACORDARE CORECTIE ALBIE LA CULEELE PODULUI C.F. NOU
la 3.47 m amonte de fir II pod c.f. proiectat
CORRECTION WHITE BRIDGE NEW CONNECTION TO ABUTMENTS
3.47 m upstream from the bridge wire I c.f. designed
Scara/scale 1:100


Nss pr = +/-0.00(470.792)
470.856
8.591%
470.921
467.13
Mal stang
-2.92
1.10
1.0
466.61
50
2.00
2.00
50
466.61
1:1
1:1
50
4.00/2
4.00/2
2.00
50
10
464.61
30
10
1.00
5.28
60
60
-8.20
1.60
1.05
3.55
-10.70
11.25
455.00
465.38
466.00
466.00
466.00
21.44
11.25
6.23


3.50
0
Mal drept
0.90
465.52
465.43
464.06
464.38
464.96
466.00
11.70
3.79
2.84
3.56
4.90
5.92
18.22


Mal drept
455.00
469.00
468.53
466.00
464.98
463.82
463.82
14.28
8.61
2.68
3.10
3.72

PROFIL/CROSS SECTION 5-5
RACORDARE CORECTIE ALBIE LA CULEELE PODULUI C.F. NOU
la 4.00 m aval de fir I pod c.f. proiectat
CORRECTION WHITE BRIDGE NEW CONNECTION TO ABUTMENTS
4.00 m downstream from the bridge wire I c.f. designed
Scara/scale 1:100



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

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

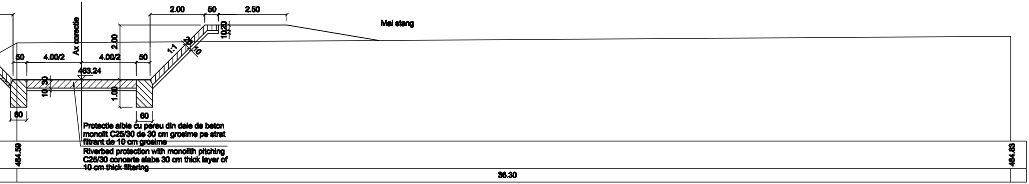
Pereu din dale de beton monolit C25/30 de 20 cm grosime, armat cu plasa de OB 37 Ø10 cu ochiurile de 20 cm, asezat pe strat filtrant de 10 cm grosime

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

471.188
NSS pr 471.124
Nss pr=+/- 0.00(471.059)
30
-2.92
50
2.00
465.79
1:1
50
4.00/2
4.00/2
2.00
50
463.79
10 30
1.00
60
60
-8.20
-10.70
2.00
50
465.79
1:1
20
10
Mal stang
465.18
Mal drept
6.00
50
2.00
21.
1:1
461.00
464.56
464.23
463.41
463.41
5.80
2.63
3.51
2.09

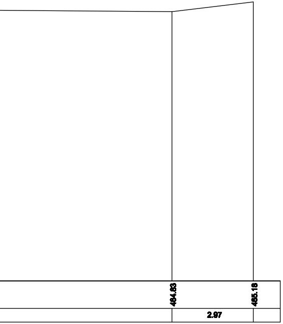
PROFIL/CROSS SECTION 4-4

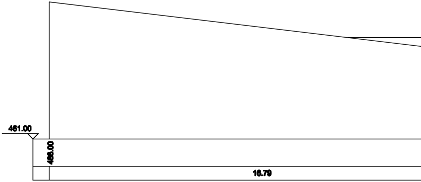
21.45 m în aval de fir I pod c.f. proiectat
45 m downstream from the bridge wire I c.f. designed
Scara/scale 1:100


2.00
50
2.50
Mal stang
Ax corectie
2.00
10 20
1:1
30
10
50
4.00/2
4.00/2
50
463.24
10 30
1.00
60
60
464.59
464.83
36.30

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

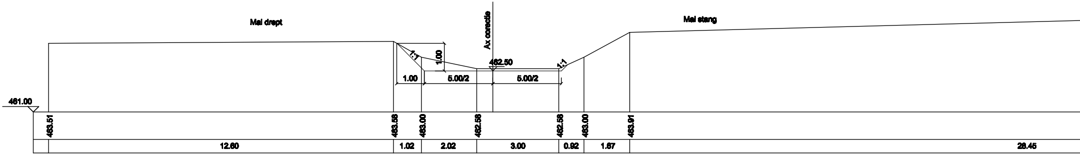
Riverbed protection with monolith pitching C25/30 concerte slabe 30 cm thick layer of 10 cm thick filtering


464.83
465.18
2.97


461.00
466.00
16.79

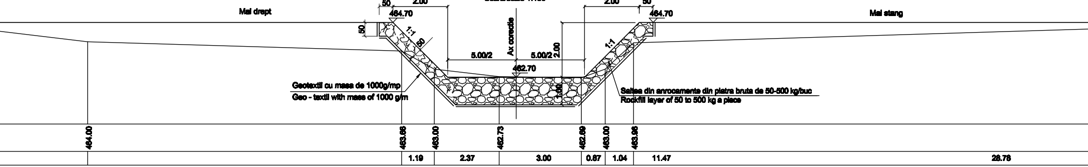
PROFIL/CROSS SECTION 1-1
CALIBRARE ALBIE AVAL POD C.F. FIR I

CALIBRATION WHITE BRIDGE DOWNSTREAM C.F.
Scara/scale 1:100


Mal drept
Mal stang
Ax corectie
1:1
1.00
462.50
1:1
1.00
5.00/2
5.00/2
461.00
463.51
463.58
463.00
462.58
462.58
463.00
463.91
12.60
1.02
2.02
3.00
0.92
1.67
28.45

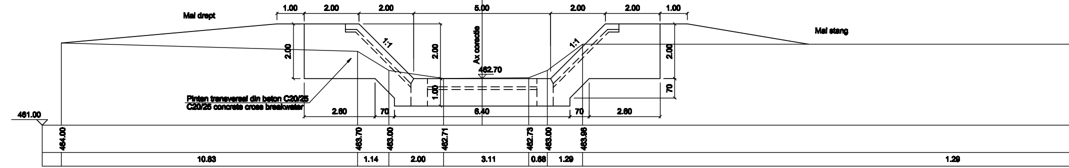
PROFIL/CROSS SECTION 2-2
RACORDARE CU SALTEA DIN ANROCAMENTE
la 39.49 m aval de fir I pod c.f. proiectat

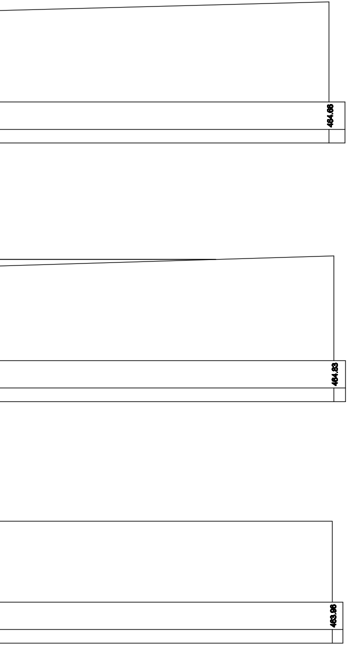
CONNECTION WITH MATTRESS ROCKFILL
to 39.49 m upstream of bridge wire I c.f. designed
Scara/scale 1:100


50
2.00
2.00
50
Mal drept
464.70
464.70
Mal stang
50
1:1
50
Ax corectie
2.00
1:1
5.00/2
5.00/2
462.70
1.00
Geotextil cu masa de 1000g/mp
Geo - textil with mass of 1000 g/m
Saltea din anrocamente din piatra bruta de 50-500 kg/buc
Rockfill layer of 50 to 500 kg a place
464.00
463.66
463.00
462.73
462.69
463.00
463.96
1.19
2.37
3.00
0.87
1.04
11.47
28.78

PROFIL/CROSS SECTION 3-3
PINTEN INCASTRARE PEREU CAP AVAL
la 39.49 m aval de fir I pod c.f. proiectat

SPURS RECESSED PITCHING CAP DOWNSTREAM
to 39.49 m downstream of bridge wire I c.f. designed
Scara/scale 1:100


1.00
2.00
2.00
5.00
2.00
2.00
1.00
Mal drept
Mal stang
2.00
1:1
2.00
Ax corectie
1:1
2.00
462.70
1.00
70
Pinten transversal din beton C20/25
C20/25 concrete cross breakwater
2.60
70
6.40
70
2.60
461.00
464.00
463.70
463.00
462.71
462.73
463.00
463.96
10.83
1.14
2.00
3.11
0.68
1.29
1.29


464.68
464.83
463.96

D					
C					
B					
A	12.2011	Revizia 1	Dobreanu Catalin		
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 EUROPEANĂ
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	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

AREX COMPANY

Aprobat Approved	**Responsabil Subconsultant** **Subconsultant Responsible**	A. Dinulescu Stanciu	11.2011	
Întocmit **Elaborated**	Proiectant Designer	C. Dobreanu	11.2011	

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 APATA-RACOS / APATA-RACOS SECTION
PROTECTIE POD C.F. KM. 220+170.00
PROFILE TRANSVERSALE
220+170.00 KM RAILWAY BRIDGE PROTECTION
CROSS SECTION

Codificare / Codification System	Scara / Scale 1:100	**LOT / LOT**	Nr. / No 01 / 01

E A 5 1 | 0 1 | C | 1 0 | W 9 | A P | 0 1 | 2 | 3 | 0 0 2 | 1