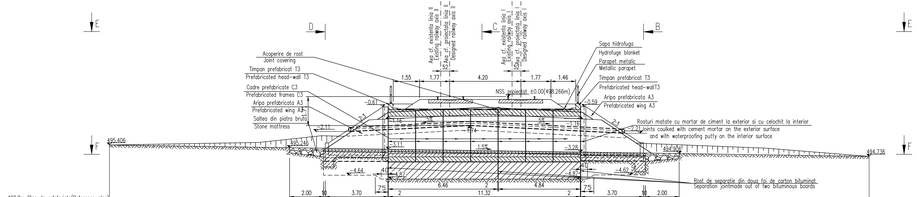
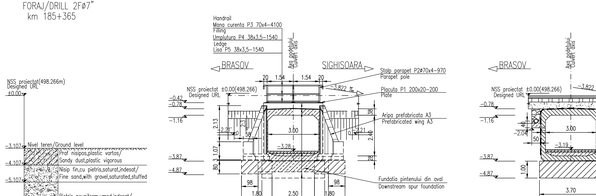
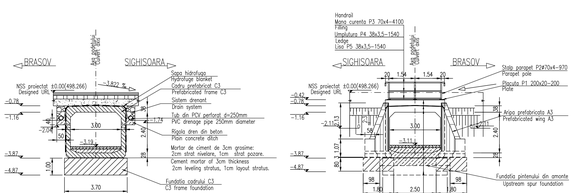
SECTIUNE LONGITUDINALA A-A / LONGITUDINAL SECTION A-A
Sc 1:100



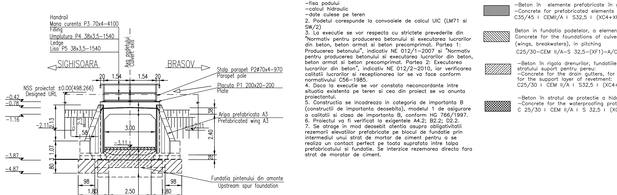
VEDERE DIN AVAL B-B
DOWNSTREAM VIEW B-B
Sc 1:100



SECTIUNE TRANSVERSALA C-C
CROSS SECTION C-C
Sc 1:100



VEDERE DIN AMONTE D-D
UPSTREAM VIEW D-D
Sc 1:100



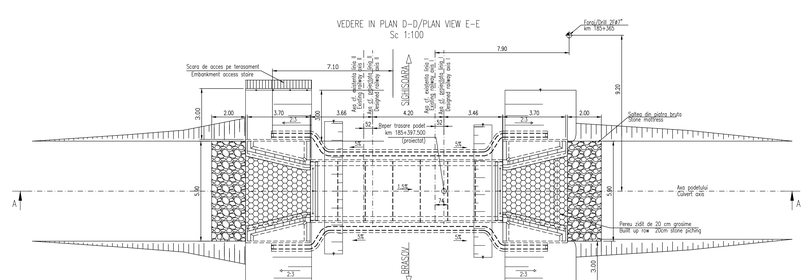
NOTA:

1. Prezentul plan a-a intocmit pe baza urmatoarelor date:
-plan de situatie
-profil in lung
-profil transversal
-fisa podului
-calcul hidraulic
-date culese pe teren
2. Podetul corespunde la convoalele de calcul UIC (LM71 si SW/2)
3. Se va executa se vor respecta cu strictete prevederile din "Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 1: Producerea betonului", indicativ NE 012/1-2007 si "Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 2: Executarea lucrarilor din beton", indicativ NE 012/2-2010, ler verificarea conformitatii betonului executat cu prescriptiile tehnice din normativul CSS-1985.
4. Daca la executie se vor constata neconcordante intre situatia existenta pe teren si cea din proiect se va anunta proiectantul.
5. Constructia se incadreaza in categoria de importanta B (construcţii de importanţă deosebită), modelul 1 de asigurare a calităţii si clasa de importanta B, conform HG 766/1997.
6. Proiectul va fi verificat la exigentele A4.2; B2.2; D3.2.
7. Se atrage in mod deosebit atentia asupra obligativitatii executarii stratului de mortar de ciment pentru a se asigura intimitatea unui strat de mortar de ciment pentru a se realiza un contact perfect pe toata suprafata intre talpa prefabricatului si fundatia. Se interzice rezemarea directa fara strat de mortar de ciment.

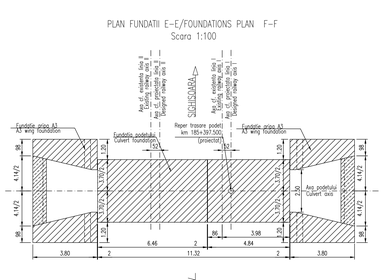
LEGENDA BETOANELOR
CONCRETE LIST

- Beton in elemente prefabricate in general (cadre, aripi, timpane,):
-Concrete for prefabricated elements generally (frames,wings, tympane,
C35/45 ; CEM/A ; S 32,5 ; (XC4+XF3+XA1) ; A/C=0,50 ; Dmax22 ; Cl 0,20
- Beton in fundatia podetelor, a elementelor de racordare (aripi, pinteni), in perey
Concrete for the foundations of culverts, of connecting elements (wings, breakwaters), in pitching
C25/30-CEM II/A-S 32,5-(XF1)-A/C=0,50-Dmax32-Cl0.20
- Beton in rigola drenurilor, fundatiile sferturilor de con si pentru realizarea stratului suport pentru perey.
Concrete in the drainage gutters, for the foundations of cone quarters and for the support layer of revetment:
C25/30 ; CEM II/A-S 32,5 ; (XC4+XF3+XA1) ; A/C=0,50 ; Dmax32 ; Cl 0,20
- Beton in stratul de protectie a hidroizolatiei:
-Concrete for the waterproofing protection layer:
C 25/30 ; CEM II/A-S 32,5 ; (XC4+XF3) ; A/C = 0,50 ; Dmax16 ; Cl 0,20

VEDERE IN PLAN D-D/PLAN VIEW E-E
Sc 1:100



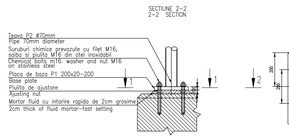
PLAN FUNDATII E-E/FOUNDATIONS PLAN F-F
Scara 1:100



MATERIAL METALIC PENTRU CONFECTIONAREA PARAPETULUI PODETULUI
THE METALLIC MATERIAL TO BUILD PARAPET OF CULVERT

Poz. Pos.	Denumirea materialului / Designation of the material Cs. Cls 10025 – S235 JR	Buc.	Sectiune Section	Lung. Long. (mm)	Sectiune/Section kg/ml	kg/buc	kg
P1	Placuta pintenu Clamping plate	6	200x20	200	31.40	6.28	37.68
P2	Bara parapet EN 10297 – E275 Parapet plate	6	70x4	970	6.51	6.32	37.92
P3	Bara curenta EN 10297 – E275 Handrail	2	70x4	4100	6.51	26.69	53.38
P4	Umplutura EN 10058 Filling	4	38x3.5	1540	2.98	4.59	18.35
P5	Lisa EN 10058 Ledge	4	38x3.5	1540	2.98	5.59	18.35
		Total partial / Total partial					165.68
		Deseuri 2% / Welding 2%					3.31
		TOTAL kg					168.99

DETALIU PENTRU PRINDEREA PLACUTELOR P1 DE TIMPAN
DETAIL TO JOIN THE SLABS P1 AT THE TYMPANUM
Sc 1:5



HYDRAULIC DATA	
-Hydraulic height:	h=1.06m
-Wet perimeter:	P=5.12m
-Wet surface:	A=3.18m²
-Water low speed:	V=3.22m/s

DATE HIDRAULICE	
-Inaltimea de apa in podet:	h=1.06m
-Perimetrul udat:	P=5.12m
-Aria udata	A=3.18m²
-Viteza de curgere apa:	V=3.22m/s

NOTA	
Numar de elemente prefabricate	
-Cadre prefabricate C3:	-7buc.
-Timpane prefabricate T3:	-2buc.
-Aripi prefabricate A3:	-4buc.

NOTE	
Number of precast sections:	
-Precast Frame C3:	-7pcs.
-Head-wall T3:	-2pcs.
-Precast wingwall A3:	-4pcs.

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NOTE:

1. This plan has been drawn up based on the following data:
-Lay-out Plan.
-Longitudinal Profile
-Cross-section Profile
-Culvert Data
-Hydraulic determination
-Field Data
2. The culvert corresponds to the UIC determination convoys (LM71 and SW/2).
3. The execution will strictly comply with the provisions of "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete – Part 1: Practice code for concrete production" NE 012/1-2007 and "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete – Part 2: The execution of concrete works." NE 012/2-2010, and the quality control for the concrete works shall be made accordingly to the norm C-ct 1985.
4. During the execution, discrepancies are found between the existing situation on site and the situation stated in the project, the designer will be noticed.
5. The construction has been classified in B category of importance (high important constructions), model 1-ensuring the quality and class of importance B according to G.D. 766/97.
6. The project will be checked in order to comply with the A4.2; B2.2; D3.2 requirements.
7. Particular attention is drawn on binding prefabricated frame and
settlement on block foundation through a layer of cement mortar
to achieve a perfect contact over the entire surface between precast and foundation base.Propping is prohibited without direct layer of cement mortar.

D					
C					
B					
A	12.2011	Revizia 1	Totan Ciprian		
Indice / Index	Data / Date	Modificare / Modification/Revision	Proiectant / Designer	Aprobat Consultant / Approved Consultant	Aprobat CFR / Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANSAT DE UNIUNEA EUROPEANA
EUROPEAN UNION FINANCED PROJECT

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

CLIENT / CLIENT

ITALFERR Joint Venture leader · Scott Wilson · OBERMEYER PLANEN + BERATEN GmbH · TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

			Data / Date	Semnătură / Signature
Aprobat / Approved	S.ef proiect / Project manager	R. Liuzza		
Aprobat / Approved	Coordonator Sectiune 1 / Section 1 Coordinator	C. Gambelli		
Verificat / Checked	Expert Cheie / Key Expert	V.Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

AREX

Aprobat / Approved	Responsabil Subconsultant / Subconsultant Responsible	A. Dinulescu Stanciu	05.2011	
Elaborat / Elaborated	Proiectant / Designer	Totan Ciprian	05.2011	

Reabilitarea liniei de cale ferata Bravov - Simeria, parte componenta, a coridorului IV Pan European, pentru circulaţia trenurilor cu viteza maxima de 160 km/h,
Tronsonul : Brasov - Sighisoara
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

INTERVAL BOD - FELDIOARA / SECTION BOD - FELDIOARA
PODET Km.185+397.500 / CULVERT km 185+397.500
DISPOZITIE GENERALA / GENERAL LAYOUT

Codificare / Codification System	Scara / Scale 1:100	LOT / LOT	Nr. / No. 03.1.01
E A 5 1 0 1 C 0 6 P A P O 0 0 7 1 0 0 2 1			