DATE HIDRAULICE:

- Inaltimea de apa in podet: h=1,27m
- Perimetru udat: P=4,54m
- Aria udata: A=2,54m²
- Viteza de curgere a apei: v=3,54m/s

HIDRAULIC DATA:

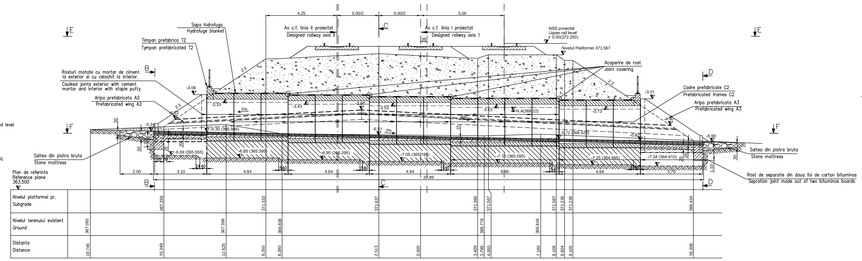
- Hydraulic height: h=1,27m
- Perimeter: P=4,54m
- surface: A=2,54m²
- Water flow speed: V=3,54m/s

NOTA
Numar de elemente prefabricate
- Cadre prefabricate C2: 18buc
- Aripi prefabricate A2: 2buc.
- Aripi prefabricate A3: 2buc.
- Timpane prefabricate: 2buc

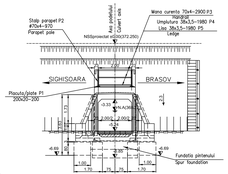
NOTE
Number of precast section
- Prefabricated frames C2 : 18pcs.
- Prefabricated wings A2 2pcs.
- Prefabricated wings A3 2pcs.
- Head-wall 2pcs.

SONDAJ / DRILL 1F Ø7"

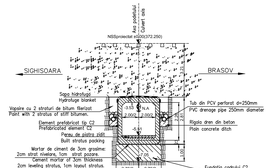
SECTIUNE LONGITUDINALA A-A/
LONGITUDINAL SECTION A-A
scara 1:100



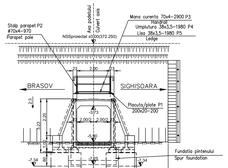
SECTIUNE B-B
B-B SECTION
scara 1:100



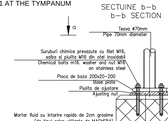
SECTIUNE TRANSVERSALA C-C
CROSS SECTION C-C
scara 1:100



SECTIUNE D-D
D-D SECTION
scara 1:100



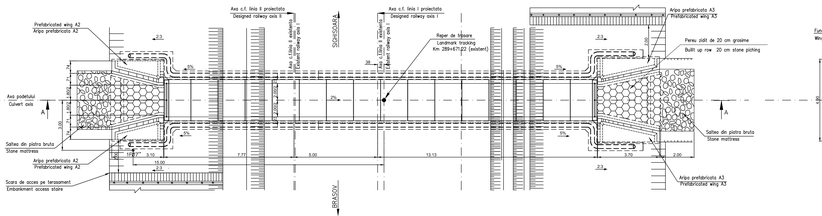
DETALIU PENTRU PRINDEREA PLACUTELOR P1 DE TIMPAN
DETAIL TO JOIN THE SLABS P1 AT THE TYMPANUM
Scara 1:5



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

Poz. Pos.	Denumire materiului / The denomination of the material OL EN 10025 - S235-JR	Buc.	Sectiune / Section	Lung. / Long. (mm)	Sectiune/Section kg/m	kg/buc	kg
P1	Piesuca prindere / Clamping plate	4	200x20	200	31.40	6.28	25.12
P2	Stalp parapet EN 10297 – E275 / Parapet pole	4	70x4	970	6.51	6.32	25.26
P3	Mana curenta EN 10297 – E275 / Handrail	2	70x4	2900	6.51	18.88	37.76
P4	Umplutura EN 10058 / Filling	2	38x3,5	1980	2.98	5.90	11.80
P5	Liac EN 10058 / Ledge	2	38x3,5	1980	2.98	5.90	11.80
	Total portal / Portalily total						111.74
	Sudura 2% / Welding 2%						2.24
	TOTAL kg						115

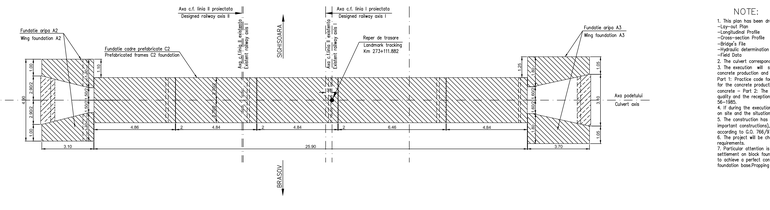
VEDERE IN PLAN E-E
E-E PLAN VIEW
scara 1:100



LEGENDA BETOANELOR
CONCRETE LIST

- Beton armat in elemente prefabricate
  Reinforced concrete in the prefabricated elements
  C35/45-CEM II/A-S 52,5-(XC4+XF3+XA1)-A/C=0,50-Dmax 22-Cl 0.20
- Beton simplu in fundatia elementelor prefabricate si a aripilor
  Plain concrete in the prefabricated elements and wings
  C25/30-CEM II/A-S 32,5-(XF1)-A/C=0,50-Dmax 32-Cl 0.20
- Beton simplu de pantuin pinten si in rigola drenului
  Plain concrete slope and spur the gutter drain
  C 25/30-CEM II/A-S 32,5-(XC3+XF3+XA1)-A/C=0,50-Dmax 32-Cl 0.20

PLANUL FUNDATIILOR F-F
F-F FUNDATION PLAN
scara 1:100



NOTE:

1. This plan has been drawn up based on the following data:
–Lay-out Plan
–Longitudinal Profile
–Cross-section Profile
–Bridge's File
–Hydraulic determination
–Filed Data
2. The culvert corresponds to the UIC determination convyse (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 and the reception of the works shall be made accordingly to Norm C 170/2003.
4. If 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.O. 766/97.
6. The project will be checked in order to comply with the A4.2; B2.2; C2.2 requirements.
7. Particular attention is drawn on binding prefabricated elevations 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.

NOTA:

1. Prezentul plan s-a intocmit pe baza urmatoarelor date:
–plan de situatie
–profil in lung
–profil transversal
–file podet
–calcul hidraulic
–date culese pe teren
2. Podetul corespunde la convoiele de calcul UIC (LM71 si SW/2).
3. Executia se va face cu stricta respectare a prevederilor "Normativ pentru producerea betonului si executarea lucrarilor de beton, beton armat si beton precomprimat. Partea 1: Producerea betonului", indicativ NE 012/1-2007 si "Normativ pentru producerea betonului si executarea lucrarilor de beton, beton armat si beton precomprimat. Partea 2: Executarea lucrarilor din beton", indicativ NE 012/2-2010, iar verificarea calitatii lucrarilor si receptionarea lor se va face conform normativului C16-1989.
4. In cazul in care pe parcursul executarii lucrarilor intre situatia existenta pe teren si cea din proiect se va anunta proiectantul.
5. Constructiile se incadreaza in categoria de importanta B (constructii de importanta deosebita), modelul 1 de asigurare a calitatii si clasa de importanta B, conform HG 766/1997.
6. Proiectul va fi verificat in vederea indeplinirii cerintelor A4.2; B2.2; C2.2.
7. Se atrage in mod deosebit atentia asupra asigurarii rosturi elevatiilor prefabricate pe fundatie, prin intermediul unui strat de mortar de ciment pentru a se realiza un contact perfect pe toata suprafata intre talpa prefabricatului si fundatie. Se interzice rezemarea directa fara strat de mortar de ciment.

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Ind. / Index	Data / Date	Modificare / Modification/Revision	Proiectant / Designer	Aprobat Consultant / Approved Consultant	Aprobat CFR / Approved CFR
D					
C					
B					
A	11.2011	Revizia 1	Mihai Ady-Nicolae		

GUVERNUL ROMANIEI / ROMANIAN GOVERNMENT

PROIECT FINANTAT DE UNIUNEA EUROPEANĂ / EUROPEAN UNION FINANCED PROJECT

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

CLIENT / CLIENT

ITALFERR GRUPPO FERROVIE DELLO STATO / Scott Wilson / OBERMEYER PLANEN + BERATEN GmbH / TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

			Data / Date	Semnătură / Signature
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Aprobat / Approved	Coordonator Sectia 1 / Section 1 Coordinator	C. Gambelli		
Verificat / Checked	Expert Oiere / Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

ABX

Aprobat / Approved	Responsabil Subconsultant / Subconsultant responsible	A. Dinulescu Stancu	02.2011	
Întocmit / Elaborated	Proiectant / Designer	Mihai Ady-Nicolae	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 : Brasov - Sighişoara**
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 - Sighişoara**

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

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

Denumire desen / Drawing Title :

STATIA VANATORI / VANATORI STATION
PODET - KM 273+111.882 / KM 273+111.882 - CULVERT
DISPOZITIE GENERALA / GENERAL DISPOSITION

Codificare / Codification System	Scara / Scale 1:100; 1:5	LOT / LOT	Nr. / No. 07 / 01
E A S 1 0 1 C 1 7 P A P 0 0 8 4 1 0 0 2 1			