

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

Poz./ Piece	Denumirea materialului The denomination of the material	Buc.	Sectiune Section	Lung. Long. (mm)	kg/ml	kg/buc	kg
P1	Placuta 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	Mano 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	Lisca EN 10058 Ledge	2	38x3,5	1980	2.98	5.90	11.80
Sudura 2% Welding 2%							2.24
TOTAL							111.74
							115

NOTE:

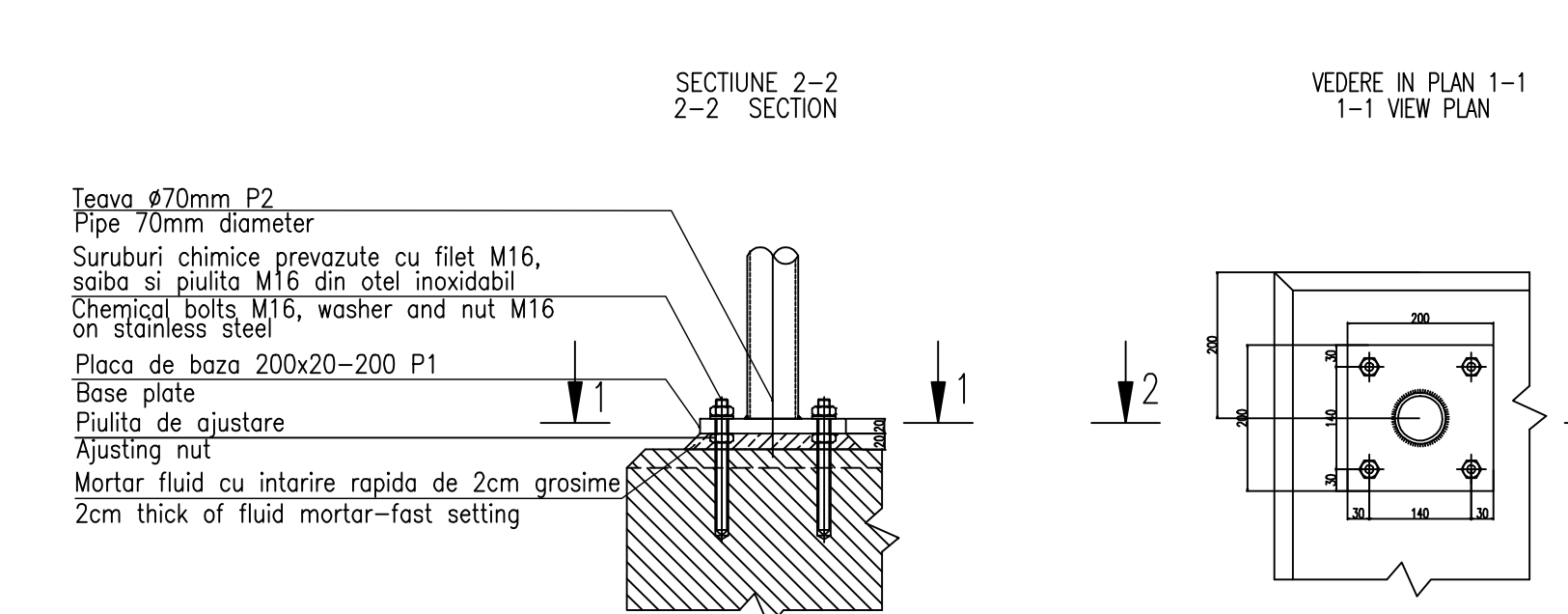
- This plan has been drawn up based on the following data:
- Lay-out Plan
- Longitudinal Profile
- Cross-section Profile
- Bridge's File
- Hydraulic determination
- Field Data
- The culvert corresponds to the UIC determination convey (LM71 and SW/2).
- The execution will strictly comply with the provisions 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 56-1985.
- If during the execution, discrepancies are found between the existing situation on site and the situation stated in the project, the designer will be notified.
- The construction has been classified in B category of importance (high importance constructions), model 1-ensuring the quality and class of importance B according to G.O. 766/97.
- The project will be checked in order to comply with the A4.2; B2.2; D2.2 requirements.
- 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.

LEGENDA BETOANELOR UTILIZATE LA PODET:
LEGEND OF CONCRETES USED FOR CULVERT:

- Beton armat in elementele prefabricate in general (cadre, aripi, timpane)
Concrete for prefabricated elements generally (frames, wings, tympan)
- C35/45-CEM I/A-S 32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax 22-CI 0,20
- Beton in fundatiile podetului, a elementelor de racordare (aripi), pereu, canal, put
Concrete for the foundations of culvert, of connecting elements (wings), in revetment, channel, well
- C25/30-CEM I/A-S 32,5-(XF1)-A/C=0,50-Dmax 32-CI 0,20
- Beton in rigola drenurilor
Concrete for the drain
- C 25/30 -CEM I/A-S 32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax 32-CI 0,20
- Beton in stratul de protectie a hidroizolatiei
Concrete for waterproofing protection layer
- C 25/30 -CEM I/A-S 32,5-(XC4+XF3)-A/C=0,50-Dmax 16-CI 0,20

DETALIU PENTRU PRINDEREA PLACUTELOR P1 DE TIMPAN
DETAIL TO JOIN THE SLABS P1 AT THE HEAD-WALL

Scara 1:5



DATE HIDRAULICE

-Inaltimea de apa in podet: h=0.55 m
-Perimetru udat: P=3.10 m
-Aria udata: A=1.10 m²
-Viteza de curgere apa: V=2.33 mc/s

HYDRAULIC DATA

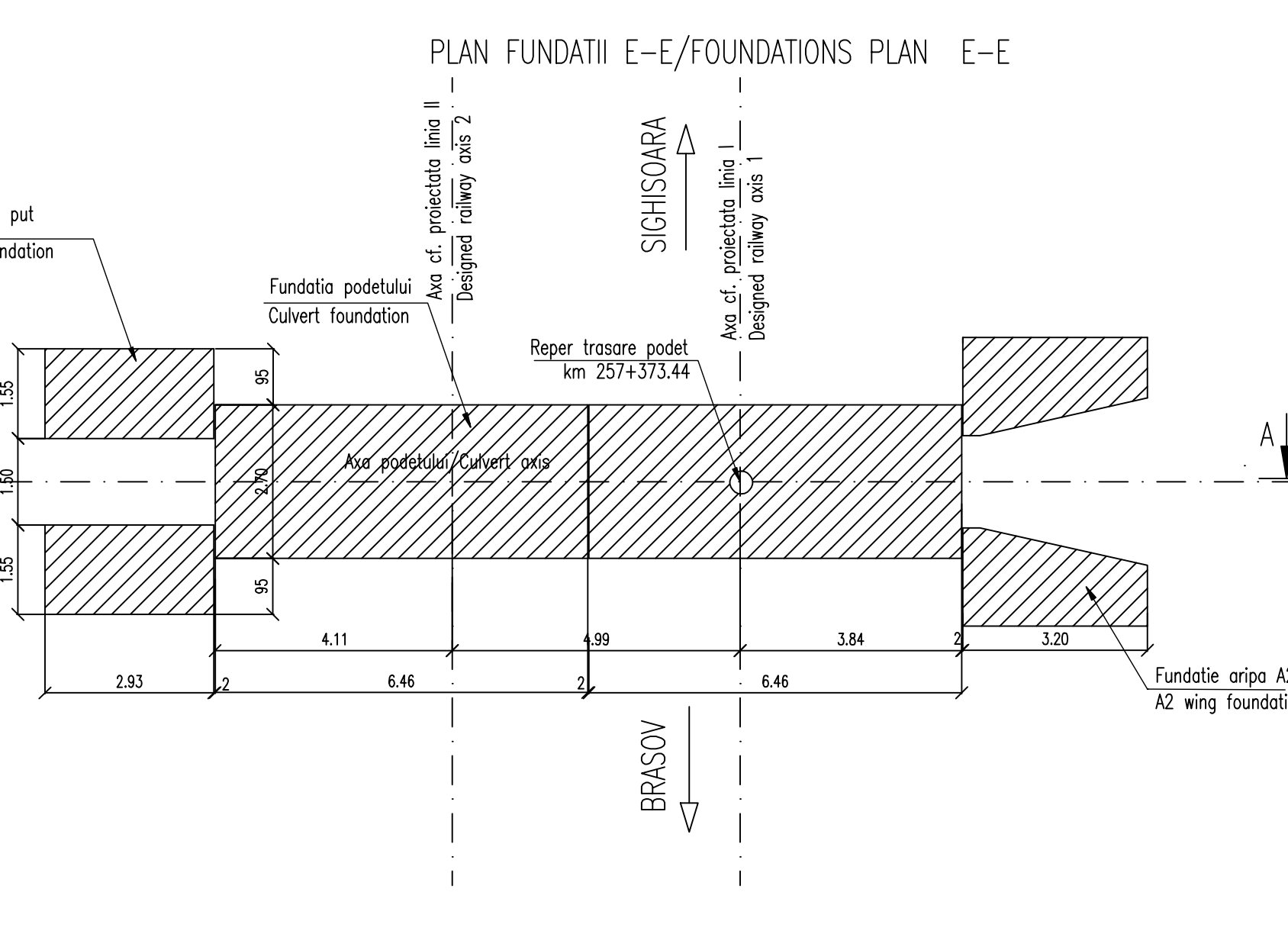
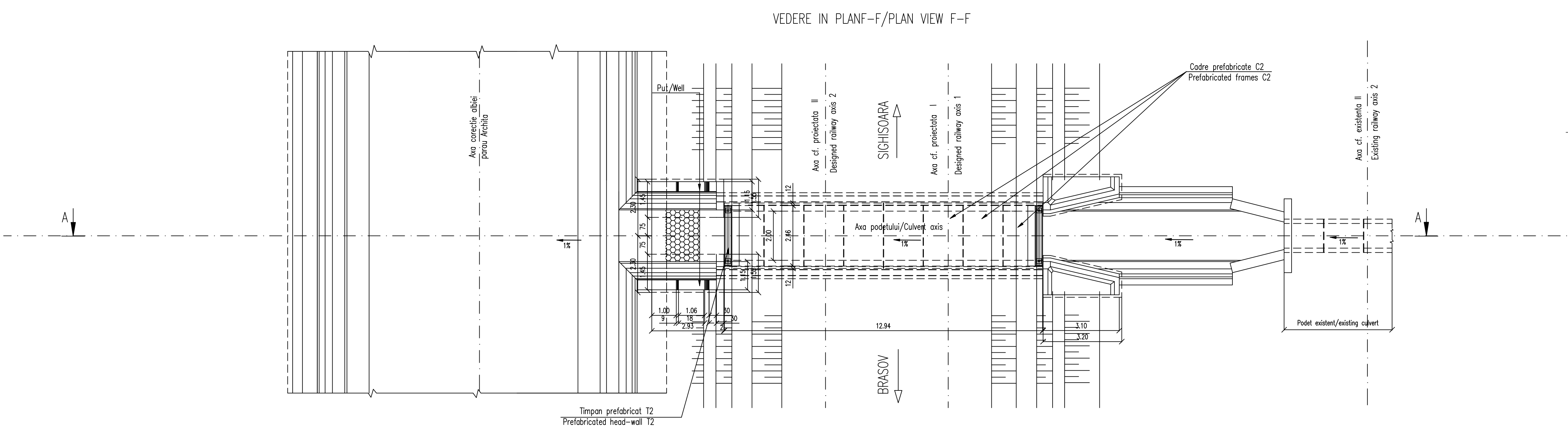
-Hydraulic height: h=0.55 m
-Wet perimeter: P=3.10 m
-Wet surface: A=1.10 m²
-Water low speed: V=2.33 mc/s

NOTE:

Numar de elemente prefabricate
-Cadre prefabricate C2: - 8buc.
-Timpane prefabricate T2: - 2buc.
-Aripi prefabricate A2: - 2buc.

NOTE:

Number of precast sections:
-Prefabricated Frames C2: - 8pcs.
-Head-wall T2: - 1pcs.
-Prefabricated wings A2: - 2pcs.



NOTA:

- Prezentul plan s-a intocmit pe baza urmatoarelor date:
- plan de situatie
- profil in lung
- profil transversal
- fisec podetului
- calculul hidrologic
- datele culisare pe teren
- Podetul corespunde la convoaiele de calcul UIC (LM71 si SW/2)
- La executie 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, si verificarea calitatii lucrarilor si receptionarea lor se va face conform normativului C56-1985.
- Doaca la executie se vor constata neconcordanțe între situatia existenta pe teren si cea din proiect se va anunta proiectantul.
- Construcția se încadrează în categoria de importanță B (construcții de importanță deosebită), modelul 1 de asigurare a calitatii și clasei de importanță B, conform HG 766/1997.
- Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2.
- Se atrage în mod deosebit atenția asupra obligativității rezervei elevatilor prefabricate pe bicalul de fundatie prin intermediul unui strat de mortar de ciment pentru a se realiza un contact perfect pe toata suprafata între teapa prefabricatului si fundatie. Se interzice rezemarea directa fara strat de mortar de ciment.

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D					
C					
B					
A	12.2011	REVIZUA 1	Adrian Sabo		
Index	Date	Modificare	Proiectant	Approbat Consultant	Approbat CFR
		Modification/Revision	Designer	Approved Consultant	Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

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

CLIENT / CLIENT

ITALFERR
GRUPPO FERROVIE DELLO STATO

Scott Wilson

OBERMEYER
FLAKEN + BEHATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / SUBCONSULTANT

Approbat	Self project	R. Liuzza	Date	Semnatura
Approved	Project manager			
Approbat	Coordonator Sectiune 1	C. Gambelli		
Approved	Section 1 Coordinator			
Verificat	Expert Chale	V.Kalidromitis		
Checked	Key Expert			

SUBCONTRACTANT / SUBCONTRACTOR

Approbat	Responsabil Subcontractant	A. Dinulescu Stancliu	07.2011	
Approved	Subcontractant Responsible			
Elaborat	Proiectant	Sabo Adrian	07.2011	
	Designer			

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h.
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.

Tronsonul : Brasov - Sighisoara
Section : Brasov - Sighisoara

Proiect/Project
2004/RO/16/PP/A003

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

Denumire desen / Drawing Title :
STATIA / STATION ARCHITA
PODET km 257+373.44. - DISPOZITIE GENERALA
CULVERT km 257+373.44 - GENERAL LAYOUT

Codificare / Codification System

Scara / Scale	LOT / LOT	Nr. / No
1:100		01/01

E A 5 1 0 1 C 1 4 P A P O 0 7 4 1 0 0 1 1