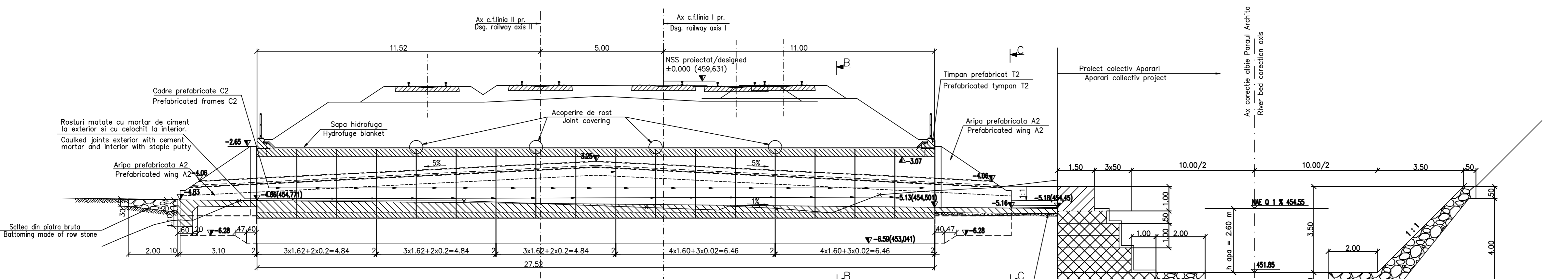


SECTIUNE LONGITUDINALA A-A / LONGITUDINAL SECTION A-A

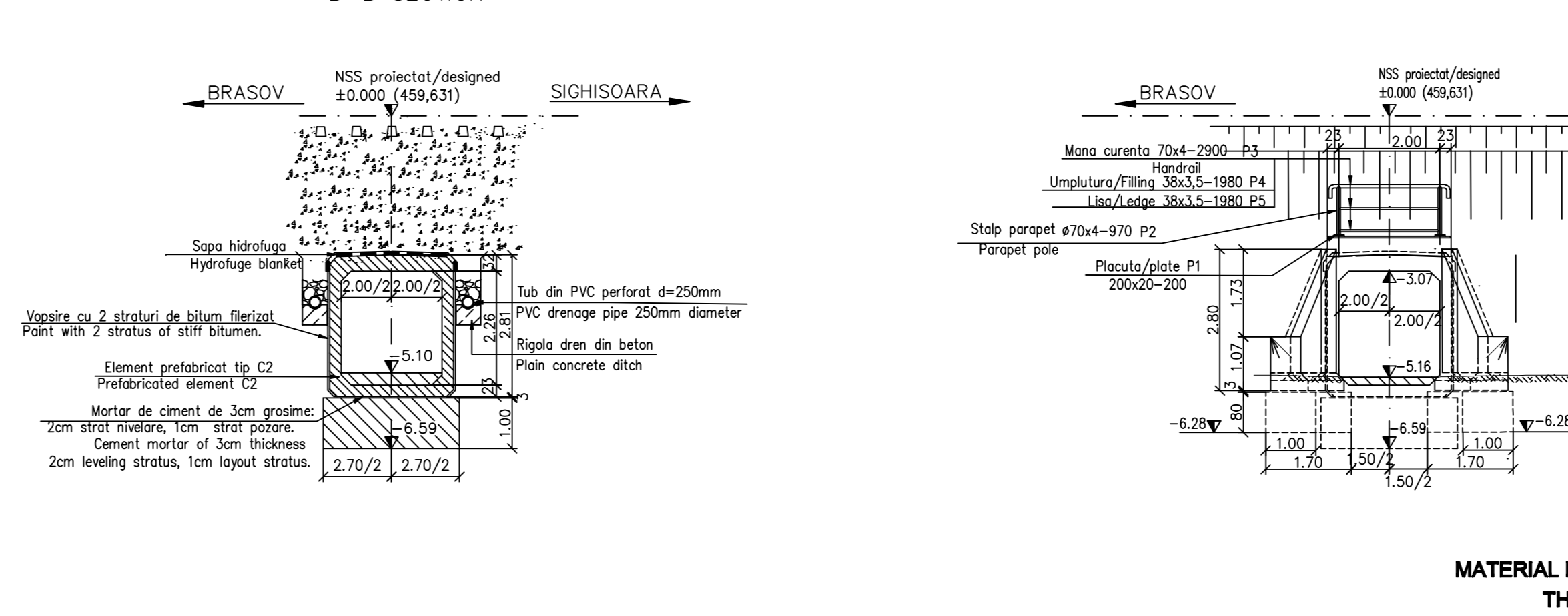


- NOTA**  
Numar de elemente prefabricate  
-Cadre C2 : 17buc  
-Aripi prefabricate A2: 4buc.  
-Timpane prefabricate T2 2buc
- NOTE**  
Number of precast section  
-Prefabricated frames C2 17pcs.  
-Prefabricated wings A2 4pcs.  
-Head-wall T2 2pcs.
- DATE HIDRAULICE:**  
-Inaltimea de apa: h=0,86m  
-Perimetră udată: P=3,72m  
-Aria udată: A=1,72m²  
-Viteza de curgere a apei V=2,91m/s
- HIDRAULIC DATA:**  
-Hydraulic height: h=0,86m  
-Perimeter: P=3,72m  
-surface: A=1,72m²  
-Water flow speed: V=2,91m/s

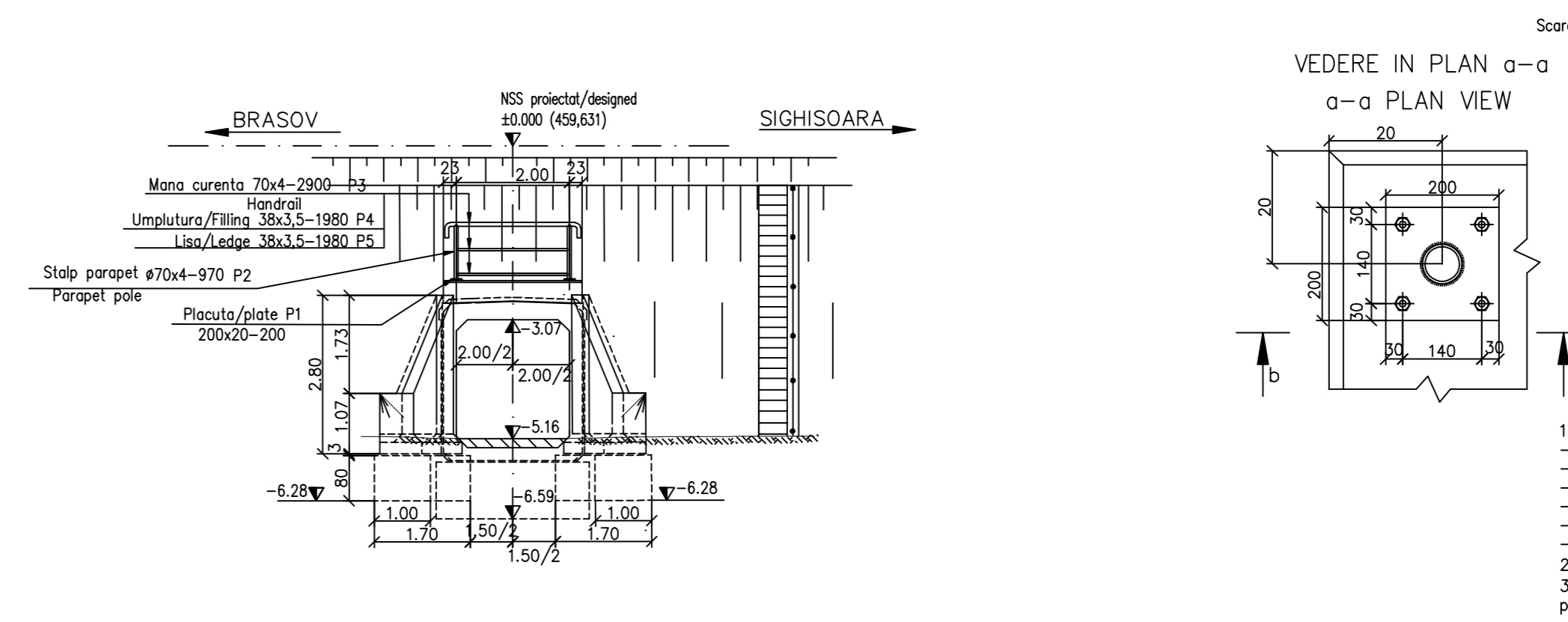
451.00m datam

Nivelul platformei pr. Subgrade	Nivelul terenului existent	Distanta
22,017 453,250	20,684 453,798	22,017
18,180 453,942	17,225 454,761	18,180
15,210 454,761	14,449 454,761	15,210
14,022 454,761	12,894	14,022
12,894	10,927 454,761	12,894
10,927 454,761	9,594	10,927
9,594	8,100 454,761	9,594
8,100 454,761	7,297	8,100
7,297	5,000	7,297
5,000	2,500	5,000
2,500	0,000	2,500
0,000	1,477	0,000
1,477	1,562	1,477
1,562	2,232 454,388	1,562
2,232 454,388	2,232 454,547	2,232
2,232 454,547	2,954	2,232
2,954	4,574 454,456	2,954
4,574 454,456	4,882	4,574
4,882	6,254	4,882
6,254	6,835 454,274	6,254
6,835 454,274	8,162	6,835
8,162	8,764 455,010	8,162
8,764 455,010	485,175	8,764
485,175	485,952	485,175
485,952	485,952	485,952
485,952	131,353 455,297	485,952
131,353 455,297		131,353

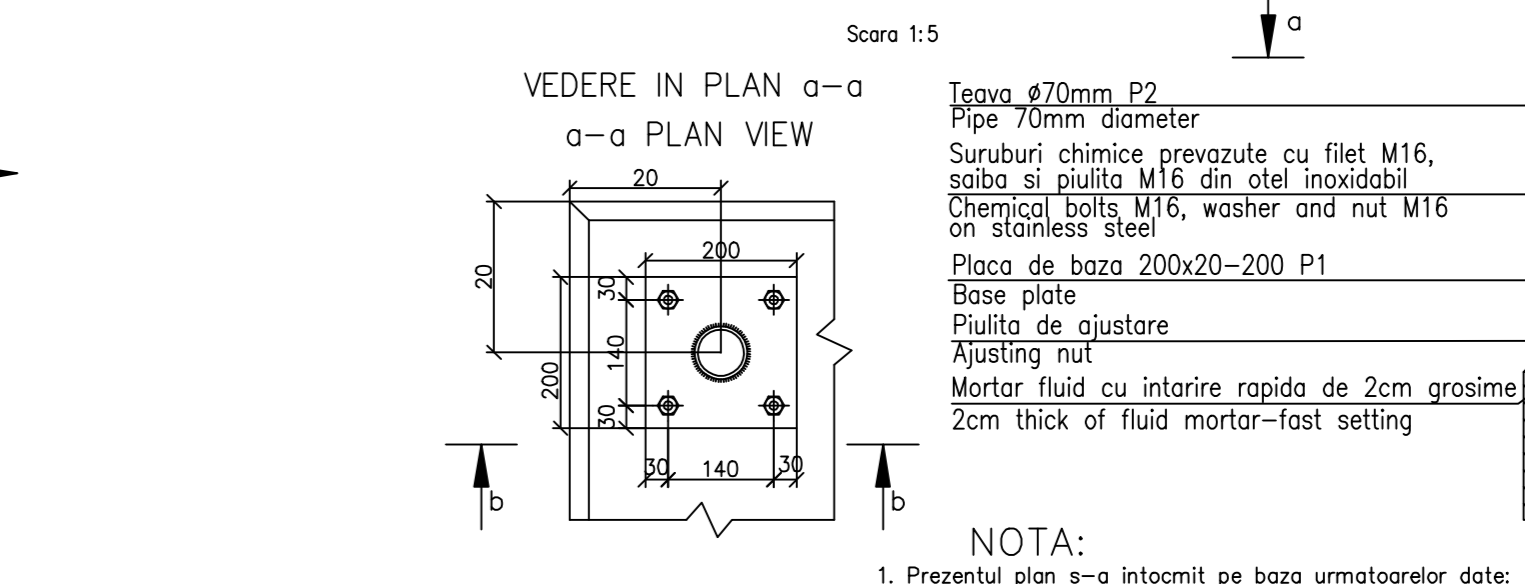
SECTIUNE B-B / B-B SECTION



SECTIUNE TRANSVERSALA C-C / C-C CROSS SECTION

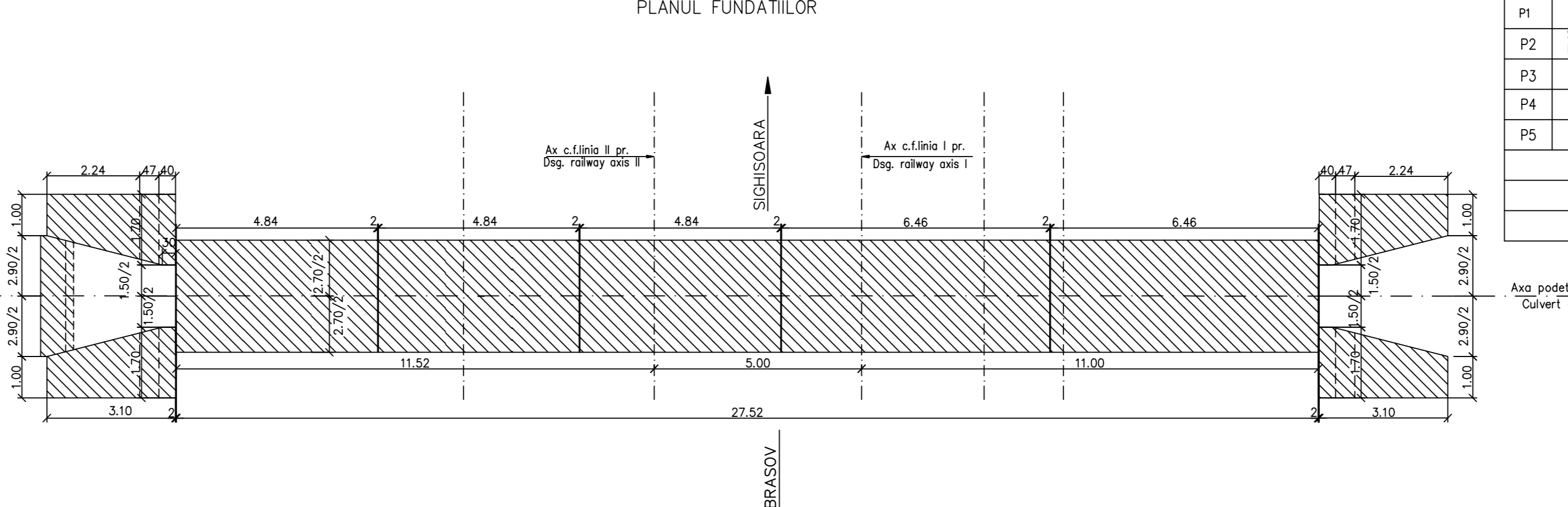


SECTIUNE b-b / b-b SECTION



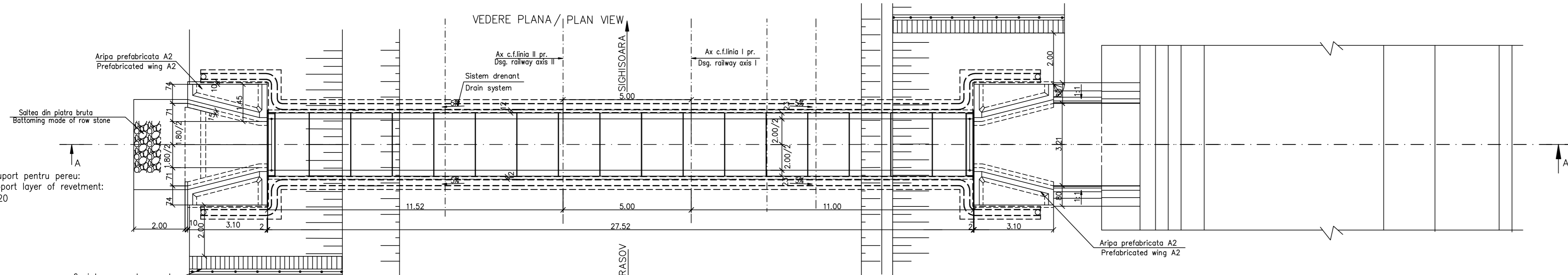
**NOTA:**  
1. Prezentul plan s-a intocmit pe baza urmatoarelor date:  
-plan de situatie  
-profil in lung  
-profil transversal  
-fisa podului  
-calcul hydraulic  
-date culese pe teren  
2. Podetul corespunde la convoaiele de calcul UIC (LM71 si SW/2)  
3. La executie se vor respecta cu strictete prevederile din "Normativ pentru producerea betonului si executarea lucrurilor din beton, beton armat si beton precomprimat. Partea 1: Producerea betonului", indicativ NE 012/1-2007 si "Normativ pentru producerea betonului si executarea lucrurilor din beton, beton armat si beton precomprimat. Partea 2: Executarea lucrurilor din beton", indicativ NE 012/2-2010, iar verificarea calitatii lucrurilor si receptiunea lor se va face conform normativului C56-1985  
4. Daca la executie se vor constata neconcordanțe intre situatia existenta pe teren si cea din proiect se va anunta proiectantului.  
5. Constructia se incadreaza in categoria de importanta B (constructii de importanta deosebită), modelul 1 de asigurare a calitatii si clase de importanta B, conform HG 766/1997.  
6. Proiectul va fi verificat la exigentele A4.2; B2.2; D2.2.  
7. Se atrage in mod deosebit atentie asupra obligativitatii rezemarii elevatiilor prefabricate pe blocul de 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.  
8. Iti dăruin the execution, discrepancies are found between the existing situation on site and the situation stated in the project, the designer will be notified.  
9. 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.  
10. The project will be checked in order to comply with the A4.2; B2.2; D2.2 requirements.  
11. 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.

FUNDATION PLAN / PLANUL FUNDATIILOR



LEGENDA BETOANELOR CONCRETE LIST

- Beton în elemente prefabricate în general (cadre, aripi, timpane);  
-Concrete for prefabricated elements generally (frames, wings, tympans)  
C 35/45 - CEM II/A - S 32,5 - (XC4+XF3+XA1) - A/C = 0,50 - Dmax22 - Cl 0,20
- Beton în fundatia podetelor, a elementelor de racordare (aripi, pînteni), în percu  
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 - Cl 0,20
- Beton în rigola drenurilor, fundatiile stfurilor de con si pentru realizarea stratului suport pentru pereu;  
-Concrete for the drain gutters, for the foundations of cone quarters and for the support layer of revetment;  
C 25/30 - CEM II/A - S 32,5 - (XC4+XF3+XA1) - A/C = 0,50 - Dmax32 - Cl 0,20
- Beton în 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



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

Poz. / Piece	Denumirea materialului / The denomination of the material	Buc.	Sectie / Section	Lung. / Long. (mm)	Sectie / Section	kg
P1	Placla de prindere / Clamping plate	4	200x20	200	31.40	25.12
P2	Stalp parapet / Parapet pole	4	70x4	970	6.51	6.32
P3	Mana curenta / Handrail	2	70x4	2900	6.51	18.88
P4	Umplutura / Filling	2	38x3,5	1980	2.98	5.90
P5	Lisa / Ledge	2	38x3,5	1980	2.98	5.90
	total partial					111.74
	Partially total					111.74
	Sudura / Welding	2%				2.24
	Field Data					
	TOTAL					115

NOTA:

- This plan has been drawn up based on the following data:  
-Lay-out Plan  
-Longitudinal Profile  
-Field Data  
-Bridge's File  
-Hydraulic determination
- The culvert corresponds to the UIC determination convoys (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 according 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 important 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.

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D						
C						
B						
A	12.2011	Revizia 1	Elena Radu	Elaborator	Proiectant	
Indice	Date	Modificari/Modificari/Revision	Proiectant	Proiectant	Proiectant	
Index	Date	Modification/Revision	Designer	Approved Consultant	Approved CFR	



CLIENT / CLIENT

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

CONSULTANT / CONSULTANT	Data	Semnatura									
<table border="1"> <tr><td>Approbat / Approved</td><td>Şef proiect / Project manager</td><td>R. Lizzuzza</td></tr> <tr><td>Approbat / Approved</td><td>Coordonator / Section 1 Coordinator</td><td>C. Gambelli</td></tr> <tr><td>Verificat / Checked</td><td>Expert / Check</td><td>V. Kallidromitis</td></tr> </table>	Approbat / Approved	Şef proiect / Project manager	R. Lizzuzza	Approbat / Approved	Coordonator / Section 1 Coordinator	C. Gambelli	Verificat / Checked	Expert / Check	V. Kallidromitis		
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Verificat / Checked	Expert / Check	V. Kallidromitis									

SUBCONTRACTANT / SUBCONTRACTOR	Data	Semnatura										
<table border="1"> <tr><td>Approbat / Approved</td><td>Responsabil / Subcontractant Responsible</td><td>A. Dinulescu Stancluc</td><td>11.2011</td><td></td></tr> <tr><td>Elaborat / Elaborated</td><td>Proiectant / Designer</td><td>Elena Radu</td><td>11.2011</td><td></td></tr> </table>	Approbat / Approved	Responsabil / Subcontractant Responsible	A. Dinulescu Stancluc	11.2011		Elaborat / Elaborated	Proiectant / Designer	Elena Radu	11.2011			
Approbat / Approved	Responsabil / Subcontractant Responsible	A. Dinulescu Stancluc	11.2011									
Elaborat / Elaborated	Proiectant / Designer	Elena Radu	11.2011									

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h, Traseoul : Brasov - Sighisoara, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h, Section : Brasov - Sighisoara

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

Denumire desen / Drawing Title :  
STATIA / STATION: ATCHITA  
PODET - KM 257+693,550 / KM 257+693,550 - CULVERT  
DISPOZITIE GENERALA / GENERAL DISPOSITION

Codificare / Codification System: E A 5 1 0 1 C 1 5 P A P O 0 7 4 1 0 0 2 1

Scara / Scale: 1:100; 1:5  
LOT / LOT  
Nr. / No: 01 / 01