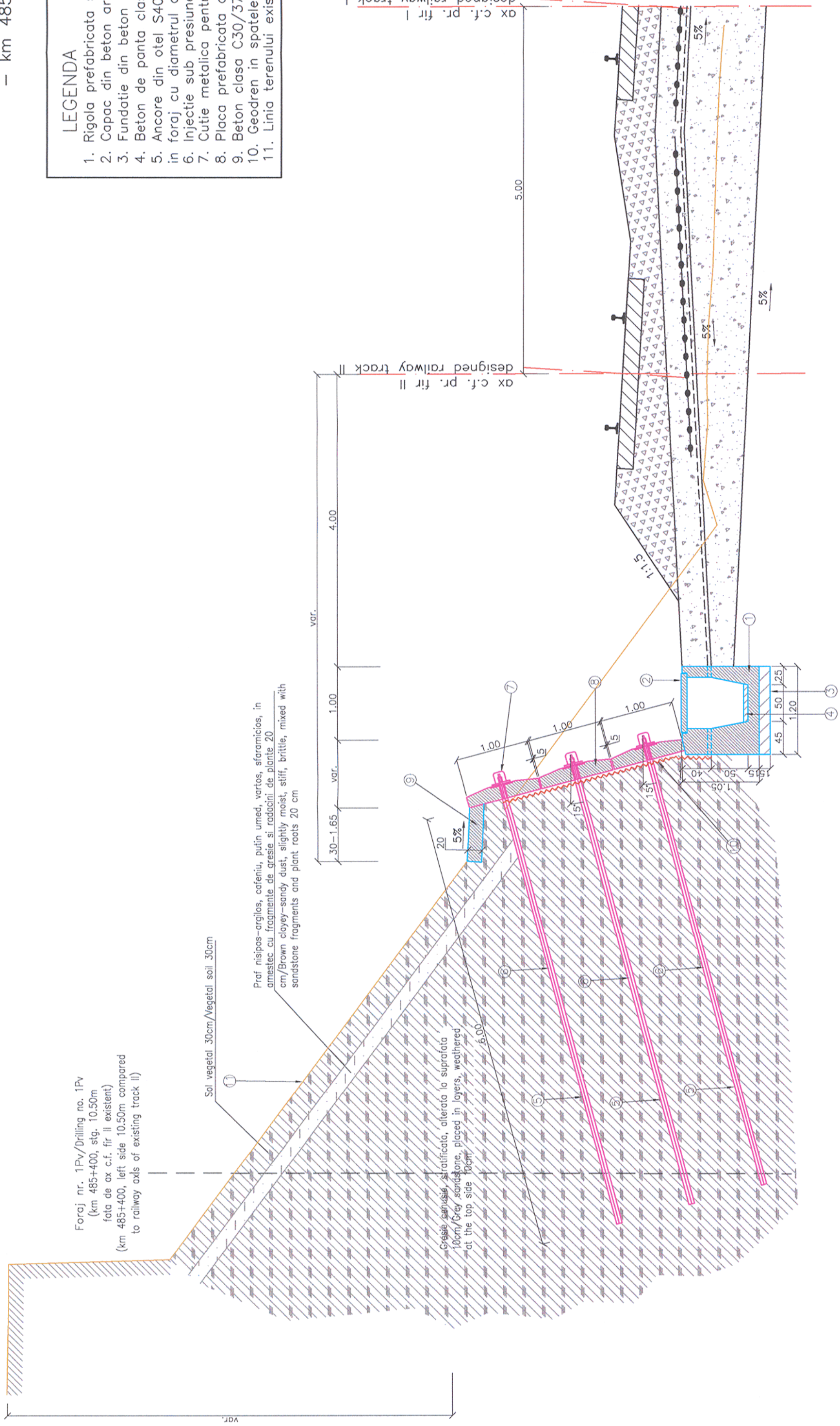


PROFIL TRANSVERSAL TIP 4/CROSS SECTION TYPE 4

Rigola prefabricata simpla cu capac si protectie taluz cu placi ancorate/Simple precast gutter with standard cap and slope protection with anchored plates
Aplicabil pe partea stanga a c.f. intre/Applicable on the left side of the railway line between:
— km 485+370.04 — km 485+452.66, L=83.72m



- LEGENDA
- Rigola prefabricata simpla din beton, clasa C30/37
 - Capac din beton armat, clasa C30/37
 - Fundatie din beton clasa C12/15
 - Beton de panta clasa C16/20, grosime variabila in foraj cu diametrul de 76mm
 - Ancore din otel S405 cu ø25mm (L=6.00m),
 - Injectie sub presiune cu suspensie de ciment
 - Cutie metalica pentru protectia capului ancorei
 - Placa prefabricata din beton armat (1.00x1.00m)
 - Beton clasa C30/37, 20cm grosime
 - Geodren in spatele placilor ancorate
 - Linia terenului existent

- LEGEND
- Simple precast gutter made of concrete, class C30/37.
 - Cap made of r.c., class C30/37
 - Foundation concrete, class C12/15
 - Slope concrete class C16/20, variable thickness
 - Anchor bars made of steel S405 with ø25mm (L=6.00m)
 - Pressurized injection with cement suspension
 - Metallic box for the protection of the anchor end
 - Reinforced concrete precast plate (1.00x1.00m)
 - Concrete class C30/37, 20cm thickness
 - Geo—drain behind the anchored plates
 - Existing ground level.

- LEGENDA BETOANELOR/CONCRETE LEGEND
- Beton clasa C12/15, X0
Concrete class C12/15, X0
 - Beton simplu clasa C16/20, XC2
Simple concrete class C16/20, XC2
 - Beton armat clasa C30/37, XF1+XC4
Reinforced concrete class C30/37, XF1+XC4

NOTA:

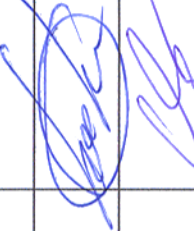
- Profilul transversal tip 4 are ca obiect detalieria si aplicabilitatea lucrarii de consolidare executata din placi ancorate prefabricate.
- Elementele geometrice ale terasamentului c.f. si nivelul sapaturii fac obiectul specialitatii Suprastructura si Terasamente c.f.. Acestea se regasesc in cadrul ocluiasi proiect in documentatii separate.
- Elementele geometrice ale lucrarii de sprijinire si scurgerea apelor s—au stabilit in concordata cu forajul de la km 485+400ex. de pe partea stanga a c.f. positionat la distanta de 10.50m fata de ax c.f. fir II existent, realizat pe o panta de 70 grade.
- La momentul executiei, pe zona lucrarilor cu placi ancorate, se va curata versantul prin indepartarea deluviului si vegetatiei pana la roca compacta. Dupa realizarea acestor operatii se va avea in vedere ca unghiul de inclinare al stratificatiei rocii compacte sa nu fie acelasi cu unghiulde inclinare al ancorelor proiectate. In cazul in care este necesara modificarea unghiului de inclinare al ancorelor proiectate, aceasta modificare se va face numai cu acordul proiectantului.
- Daca in momentul realizarii sapaturilor pentru realizarea lucrarii de sprijinire cu placi ancoratese constata ca exista neconcordanțe, in special in ceea ce priveste stratificatia intalnita, fata de situatia din teren si proiect, in acest caz, se va convoca proiectantul pentru adaptarea la situatia din teren.
- Dupa curatirea versantului, in functie de gradul de alterare al gresiei, Proiectantul isi rezerva dreptul de a reanaliza numarul de randuri de placi ancorate, cât si lungimea ancorelor prevazute in proiect.

NOTE:

- Cross—section profile type 4 presents in detail and shows the applicability of the consolidation work executedof precast anchored plates.
- Geometric elements of the railway embankment and the excavation level are the object of specialty Superstructure and Railway embankments. They are to be found in the same design, in separate documents
- The geometric elements of the propping—up works and water discharge works were decided in accordance with the boring from km 485+400ex. On the left side of the railway line, at 10.50m away from the axis of existingrailway line II, having a slope of 70 degrees, the boring from km 485+400ex. On the left side of the railway line, at 10.50m away from the axis of existingrailway line II, having a slope of 70 degrees.
- During execution, on the area of works with anchored plates, the versant will be cleaned by removing the diuvium and vegetation until to the compact rock. After executing these operation, care will be paid that the inclinationangle of compact rock stratification is not the same with the inclination angle of designed anchors. If the inclination angle of designed anchors has to be modified, this will be done only with the designer's approval.
- If during execution of excavations necessary for propping—up with anchored plates, incongruities are notices between the site and design especially at the stratigraphy, the designer will be convoked to adopt the design to the site situation.
- After cleaning the versant, depending on the sandstone alteration degree, the Designer is entitled to re—analyze the number of rows of anchored plated, as well us the length of anchors, specified in the design.

Acest plan anuleaza si inlocuieste versiunea anterioara.
This plan cancels and replaces previous version.

Verificator / Expert Checker / Expert	Cerinta Requirement	Semnatura Signature	Referat / Expertiza Report / Expertise		
European Investment Bank		MINISTERUL TRANSPORTURILOR			
		BENEFICIAR / BENEFICIARY :			
				COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA	

PROIECTANT / DESIGNER:				Data Date	Semnatura Signature
Aprobat Approved	Șef de echipă Team leader	C. Teodorescu		01.2013	
Verificat Checked	Expert Cheie Key Expert	L. Mărculescu		01.2013	
Subcontractant / Subcontractor					
					
Aprobat Approved	Adjunct Șef de echipă Deputy Team leader	A.M. Baicu		01.2013	
Proiectat Designed	Inginer Engineer	I. Ostiac		01.2013	
"Reabilitarea liniei c.f. Frontieră - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru circulația trenurilor cu viteză maximă de 160 km/h"				Project 9i 35311.1	
Tronsonul 3: cap Y Gurasada - Simeria "Rehabilitation of the Railway Line Border - Curtici - Simeria, component Part of the IV Pan - European Corridor for the Trains Circulation with maximum speed of 160 km/h"				Faza / Phase: PTH+CS / TD+TS	
Section 3 : end Y Gurasada - Simeria					

Scara / Scale 1:50	Revizia / Revision 1/16.05.2013	Cod desen / Drawing Code PT.03.01.25.CO.203	Nr. / No 04/05
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