



Fir II / Track II

Legend:

1. Leveling concrete, class C12/15
2. Retaining wall foundation made of reinforced concrete, class C 30/37; XA1, XC4, XF2, watertight (WU)
3. Header shell reinforced concrete, class C 30/37; XA1, XC4, XF2, watertight (WU)
4. Weeper made of PVC Ø50mm
5. Drain foundation made of plain concrete, class 16/20
6. PEHD tube Ø150mm, slitted or drilled at the upper part (120°)
7. Corner region filling made of gravel sort 7/31
8. 2-Layers Hydraway 2000, width 18"
9. Geotextile with separation role (1000g/m²)
10. weeper made of PVC Ø110mm
11. Shotcrete shell made of reinforced concrete C25/30, XF1
12. Boreholes for drainage shotcrete shell, Ø50mm, 2pieces/m², arrangement in vertical lines
13. Permanent rocknails, BSt 500S, GEWI, boreholediameter 150mm, a=1.50m, b=1.50m (micropiles)
14. Even bed of shotcrete beside Hydraway
15. Railing made of steel with corrosion protection
16. Drainage trough, precast concrete, install in mortar bed
17. Vegetation layer dz10cm
18. Coconut mat with grass seed and wooden dowels
19. Concealed joint placed at a height of 6m

 European Investment Bank	 MINISTERUL TRANSPORTURILOR BENEFICIAR / BENEFICIARY: CFR	 COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA	 PÖYRY	 Referat / Expertiza Report / Expertise
 Verificator / Expert Checker / Expert	 Semnatura Signature	 Cerinta / Requirement	Semnatura Signature	Data Date
Aprobat / Approved Verificat / Checked Aprobat / Approved Proiectat / Designed	Sef de echipa / Team leader Expert Cheie / Key Expert Adjunct Sef de echipa / Deputy Team leader Inginer / Engineer	C. Teodorescu M. Diegmann J. Werfling D. Ciotarnel	Semnatura / Signature 	Data / Date 06/2013 06/2013 06/2013 06/2013
"Reabilitarea liniei c.f. Frontiera - Curtici - Simeria, parte componentă a coridorului IV Tronsonul 2: km 614-Gurasada "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" Section 2 :km 614-Gurasada			Project 9j 35311.1	
Denumire desen / Drawing name: RETAINING WALLS, REGULAR CROSS SECTION H = 13.00 m to 15.00 m				
Scara / Scale 1:50	Cod desen / Drawing Code RWC 3			Nr / No RWC 3