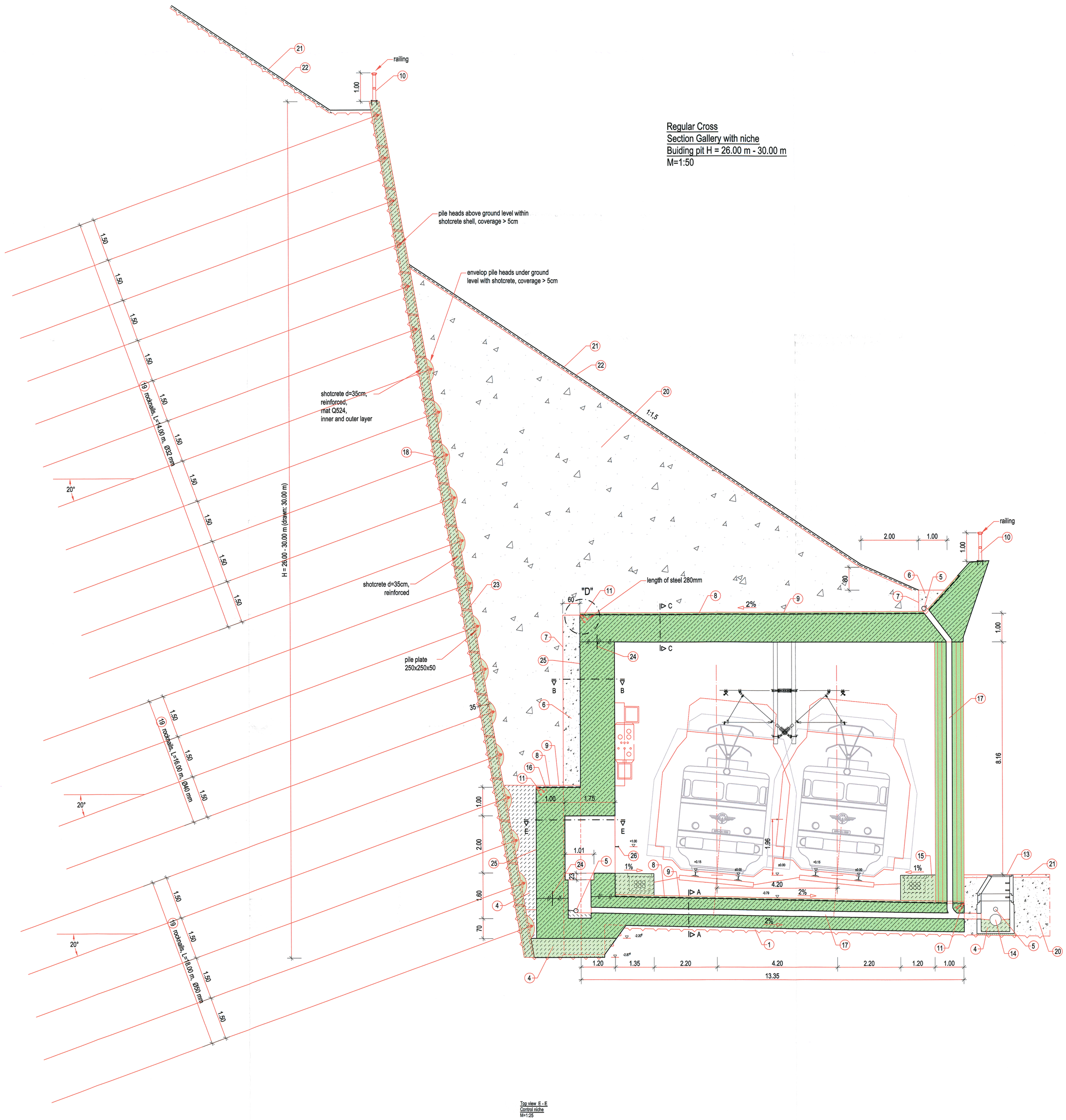

Top view E - E
Control niche
M=1:25

Regular Cross
Section Gallery with niche
Buiding pit H = 26.00 m - 30.00 m
M=1:50

Legend:

1. Leveling concrete C12\15, d=10cm
2. Gallery made of reinforced concrete C30/37,impermeable
3. Clay compacted (filling 30 cm thick layers)
4. Foundation made of plain concrete class C16/20
5. PEHD tube d=150mm, slotted
6. Draining filling made of gravel sort 7/31
7. Geo-textile with separation role
8. Waterproofing, two layers welded bitumen sheet
9. Concrete protection made of reinforced concrete C20/25, d=6cm
10. Railing made of steel with corrosion protection
11. End profile made of steel , hot-dip galvanized
12. Collecting pipe, PEHD tube d=200mm
13. Control shaft d=1000mm, precast concrete C35/45
14. Collecting pipe, PEHD tube d=400mm, connected to line dewatering
15. Track bench made of plain concrete C25/30 with empty pipes DN 110, PEHD
16. Control niches all 50m
17. Cast iron pipe d=200mm, connected to shaft
18. Shotcrete shell made reinforced concrete C25/30 (mat Q529 inner and outer Layer)
19. Permanent Rocknails , BSt 500S GEWI, grid 1,50mx1,50m, boreholediameter Ø150mm (micropiles)
20. Filling made of gravel, sand or recycled excavation material
21. Vegetation layer d≥10cm supported by fascines
22. Coconut mat with grass seed and wooden dowels
23. Drainage holes Ø 50mm, 2pieces/m²
24. Steel tagger 300x2mm
25. Bituminous paint, 2 layers
26. Handrail, stainless steel

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: PÖYRY

			Data Date	Semnatura Signature
Aprobat Approved	Sef de echipa Team leader	C. Teodorescu	06/2013	
Verificat Checked	Expert Cheie Key Expert	M. Diegmann	06/2013	
Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	J. Werfling	06/2013	
Proiectat Designed	Inginer Engineer	D. Ciotarnel	06/2013	

"Reabilitarea liniei c.f. Frontieră - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru circulația trenurilor cu viteză maximă de 160 km/h"
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 9i 35311.1

Denumire desen / Drawing name:
REGULAR CROSS SECTION GALLERY, WITH NICHE
BUILDING PIT: 26.0 - 30.0 m

Scara / Scale	Cod desen / Drawing Code	Nr / No
1:50	POC 2	PO 2