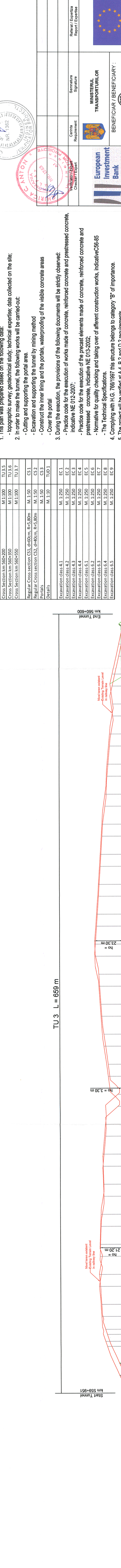


STATIA VARADIA
VARADIA STATION
Longitudinal Section TU 3
M=1:1000

STATIA BARZAVA
BARZAVA STATION
Longitudinal Section TU 3
M=1:1000



Declivitat %	Lungimi (m)	Gradient %
+3.022 %	897.795 m	
		Vertical distances (m) between designed NSS and existing NSS
		Top of Rail
		- designed line (in curves on inner rail)
		- Subgrade level
		- designed line
		Existing Top of Rail or existing terrain level
		Chainage

Diagrama curbilor	Scara: 1:1000 - 5 / R
Curvature diagram	Scara: 1:1000 - 5 / R

Diagrama supraliniilor	M=1:1000 - 0.1 x h
Superelevation diagram	M=1:1000 - 0.1 x h
	- Linia din dreapta
	- Linia din stanga
	- Linia din mijloc
	- Linia din stanga
	- Linia din dreapta

- NOTE:**
- This plan was prepared based on the following data:
 - topographic survey; geotechnical study; technical expertise; data collected on the site;
 - In order to make the tunnel, the following works will be carried-out:
 - Cutting and supporting the portal area.
 - Excavation and supporting the tunnel by mining method
 - Construct the inner lining and the portals, waterproofing of the visible concrete areas
 - Cover the portal
 - During the execution, the provisions of the following documents will be strictly observed:
 - Practice code for the execution of works made of concrete, reinforced concrete and prestressed concrete, indicative NE 012-2007;
 - Practice code for the execution of the precast elements made of concrete, reinforced concrete and prestressed concrete, indicative NE 013-2002;
 - Normative for quality checking and taking over of afferent construction works, indicative C56-85
 - The Technical Specifications.
 - Complying with H.G. 766/1997 this structure belongs to category 'B' of importance.
 - 5. The project will be verified at A.4, B.2 and D.2 requirements.

- OBSEVATE:**
- Pe toate suprafețele din beton în contact cu pământul se vor aplica 2 straturi de emulsie din bitum filerizat.
 - Protecția betonată a albă se va executa cu rosturi conform C.S.
- ATTENTON:**
- All concrete surfaces in contact with soil will be coated with 2 bituminous layers.
 - The concrete protection of the riverbed will be executed with joints according with technical specifications.
- NOTA:**
 Pentru trasarea lucrărilor se vor folosi ca reper în plan axele liniilor c.f. iar ca reper de nivel cota NSS(Pr.).
- NOTA:**
 For setting out the works, the axes of the railway lines will be utilized as reference marks in plan and the NSS(Dsg.) (top of the rail).

Layout plan	M 1:1000	TU 3.1
Cross Section km 560+000	M 1:100	TU 3.3
Cross Section km 560+150	M 1:100	TU 3.4
Cross Section km 560+200	M 1:100	TU 3.5
Cross Section km 560+350	M 1:100	TU 3.6
Cross Section km 560+550	M 1:100	TU 3.7
Regular Cross section CS1, d=60cm, R=5,80m	M. 1:50	CS 1
Regular Cross section CS2, d=40cm, R=5,80m	M. 1:50	CS 2
Portals	M. 1:50	CS 3
Details	M. 1:10	TUD 1
Excavation class 4.1	M. 1:250	EC 1
Excavation class 4.2	M. 1:250	EC 2
Excavation class 4.3	M. 1:250	EC 3
Excavation class 4.4	M. 1:250	EC 4
Excavation class 6.1	M. 1:250	EC 5
Excavation class 6.2	M. 1:250	EC 6
Excavation class 6.3	M. 1:250	EC 7
Excavation class 6.4	M. 1:250	EC 8
Excavation class 6.5	M. 1:250	EC 9

Verificator/Expert Checkier/Expert	Semnatura Signature	Referat/Expozita Report/Expertise
European Investment Bank	MINISTERUL TRANSPORTURILOR	ROMANIA
BENEFICIAR / BENEFICIARY: COMANIA NATIONALA DE CAI FERATE "CFR" SA	CFR	EUROPEAN UNION
PROIECTANT / DESIGNER: PÖYRY		
Sefer de echipa Team leader	C. Teodorescu	
Expert Cheie Key Expert	M. Diegmann	
Adjunct Sefer de echipa Deputy Team leader	J. Werfling	
Inginer Engineer	D. Ciotarnel	
06/2013		
06/2013		
06/2013		
06/2013		
06/2013		

PROIECTUL DE PROIECTARE
 "Reabilitarea liniei c.f. Curții - Simeria, parte componentă a coridorului IV
 Pan - European pentru circulația trenurilor cu viteză maximă de 160 km/h"
 Tronsoanel 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

Denunire desen / Drawing name:
 LONGITUDINAL SECTION
 TUNNEL - TU 3
 km 559+951 - km 560+600

Scara / Scale
 1:1000

Cod desen / Drawing Code
 TU 3.2

Nr / No
 TU 3

