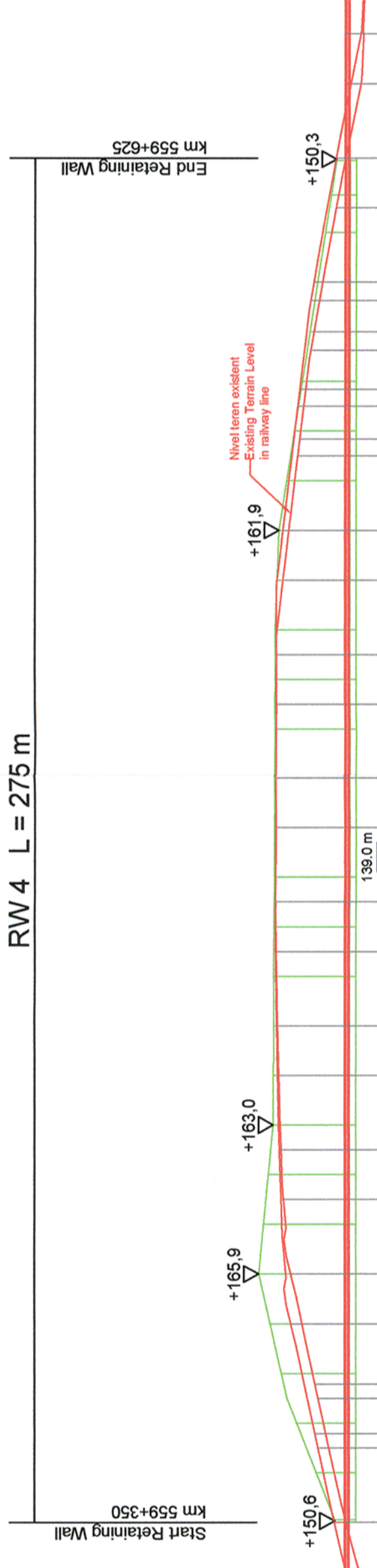


STATIA VARADIA  
VARADIA STATION

Longitudinal Section RW 4  
M=1:1000

STATIA BARZAVA  
BARZAVA STATION



Profil longitudinal - Firul II  
Longitudinal profile - Track II

Decalitati % Lungimi (m)	Gradient %	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
275.000	143.029	147.800	148.550	148.550	148.550	5.521
300.000	143.054	147.800	148.550	148.550	148.550	5.496
325.000	143.841	147.800	148.550	148.550	148.550	4.709
350.000	148.371	147.800	148.550	148.550	148.550	0.179
375.000	153.970	147.800	148.550	148.550	148.550	5.420
377.834	154.585	147.800	148.550	148.550	148.550	6.035
400.000	159.459	147.800	148.550	148.550	148.550	-10.909
425.000	161.405	147.800	148.550	148.550	148.550	-12.855
450.000	162.117	147.800	148.550	148.550	148.550	-13.567
475.000	162.562	147.800	148.550	148.550	148.550	-14.012
500.000	162.539	147.800	148.550	148.550	148.550	-13.989
525.000	162.445	147.800	148.550	148.550	148.550	-13.895
550.000	161.073	147.800	148.550	148.550	148.550	-12.523
575.000	158.147	147.800	148.550	148.550	148.550	-9.597
578.446	157.737	147.800	148.550	148.550	148.550	-9.187
600.000	154.838	147.800	148.550	148.550	148.550	-6.285
625.000	150.329	147.800	148.550	148.550	148.550	-1.779
650.000	145.684	147.800	148.550	148.550	148.550	2.866

Diagrama curbunilor  
Scara=1:1000 - 5 / R

Diagrama suprainaltailor  
M=1:1000 - 0.1 x h

— sîna din stînga  
— sîna din dreapta  
— sîna din stînga  
— sîna din dreapta

Superelevation diagram  
M=1:1000 - 0.1 x h

— sîna din stînga  
— sîna 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 retaining walls, the following works will be carried-out:
  - Excavation pit from top to floor and supporting the slopes with shotcrete and micropiles
  - Installation of drainage pipe and drainage matting
  - Construct of the final shell from bottom to top
  - Construction of the drainage ditch at the top
  - Mounting of the handrail
  - Recultivation of the upper slope

3. 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.

4. 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.

**OBSERVATE:**

- Pe toate suprafețele din beton în contact cu pământul se vor aplica 2 straturi de emulsie din bitum fierizat.
- Protecția betonată a albiei se va executa cu rosturi conform C.S.

**ATTENTION:**

- 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 lucrațiilor se vor folosi ca repere în plan axele liniilor c.f. iar ca repere 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	RW 4.1
Regular Cross section, H = 0 to 7 m	M. 1:50	RWC 1
Regular Cross section, H = 7 to 13 m	M. 1:50	RWC 2
Regular Cross section, H = 13 to 15 m	M. 1:50	RWC 3
Regular Cross section, H = 15 to 19 m	M. 1:50	RWC 4
Regular Cross section, H = 19 to 22.5 m	M. 1:50	RWC 5
Details	M. 1:10, 1:25	RWD 1

SCHITACI C. ANTON  
ROMANIA  
VERIFICATOR PROIECT  
ING. R. BLOBERG  
1963

SCHITACI C. ANTON  
ROMANIA  
VERIFICATOR PROIECT  
ING. R. BLOBERG  
1963

Referat / Expertiza  
Report / Expertise

MINISTERUL  
TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :  
COMPANIA NAȚIONALĂ DE CĂI FERATE "CFR" SA

Semnatura  
Signature

PROIECTANT / DESIGNER:  
**PÖYRY**

Data  
Date

Semnatura  
Signature

Aprobat / Approved	Sef de echipa / Team leader	C. Teodorescu	06/2013	06/2013
Verificat / Checked	Expert Cheile / Key Expert	M. Diegmann	06/2013	06/2013
Aprobat / Approved	Adjunct Sef de echipa / Deputy Team leader	J. Werfling	06/2013	06/2013
Proiectat / Designed	Inginer / Engineer	D. Ciotanel	06/2013	06/2013

"Reabilitarea liniei c.f. Frontieră - 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

Denumire desen / Drawing name:  
LONGITUDINAL SECTION  
RETAINING WALL RW 4  
km 559+350 - km 559+625  
Scara / Scale  
1:1000  
Cod desen / Drawing Code  
RW 4.2  
Nr / No  
RW 4