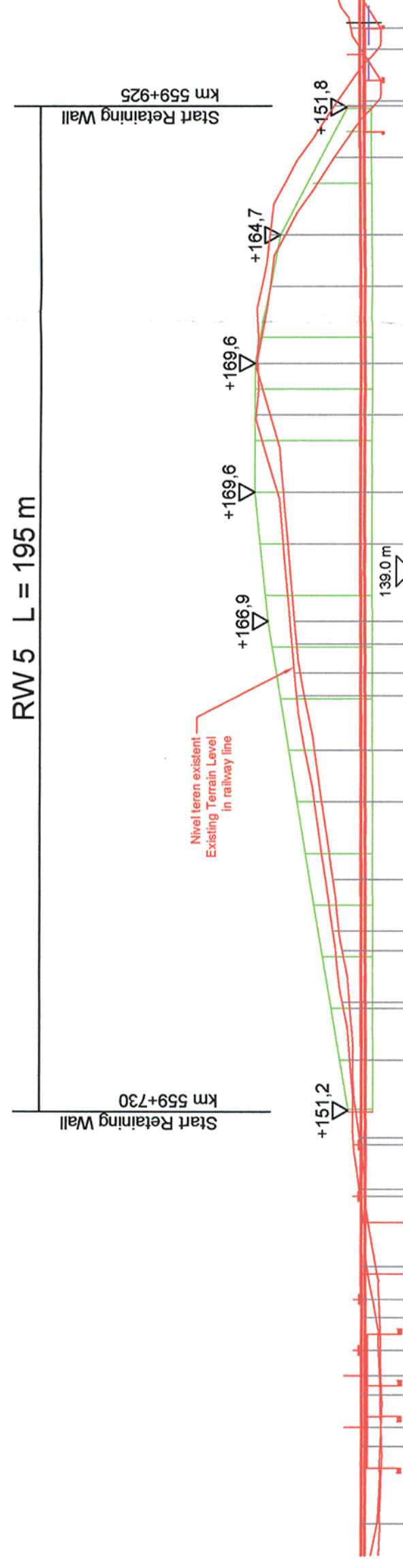


Profil longitudinal - Firul II
Longitudinal profile - Track II



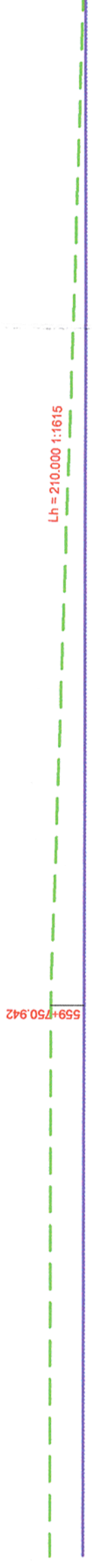
Decalmitati % Lungimi (m)	Gradient % Lengths (m)	Diferente pe verticala (m) si NSS existent	Vertical distances (m) between designed NSS and existing NSS	Nivel superior sina (in curbe pe firul interior)	Top of Rail -designed line (in curves on inner rail)	Nivel platforma c.f. - linia proiectata	Subgrade level - designed line	Nivel superior sina existenta sau nivel teren existent	Existing Top of Rail or existing terrain level	Kilometraj	Chainage
2.966	145.550	145.550	145.550	147.800	147.800	147.800	147.800	145.884	147.800	650.000	145.884
3.979	144.550	144.550	144.550	147.800	147.800	147.800	147.800	144.571	147.800	678.741	144.571
3.854	148.550	148.550	148.550	147.800	147.800	147.800	147.800	144.696	147.800	678.741	144.696
3.989	148.550	148.550	148.550	147.800	147.800	147.800	147.800	145.161	147.800	693.611	145.161
2.872	145.552	145.552	145.552	147.802	147.802	147.802	147.802	145.680	147.802	700.000	145.680
1.350	148.561	148.561	148.561	147.811	147.811	147.811	147.811	147.212	147.811	708.623	147.212
0.152	148.599	148.599	148.599	147.849	147.849	147.849	147.849	148.267	147.849	723.634	148.267
-0.327	148.599	148.599	148.599	147.849	147.849	147.849	147.849	148.267	147.849	723.634	148.267
-2.207	148.674	148.674	148.674	147.924	147.924	147.924	147.924	150.881	147.924	750.000	150.881
-5.478	148.749	148.749	148.749	147.999	147.999	147.999	147.999	154.227	147.999	775.000	154.227
9.056	148.824	148.824	148.824	148.074	148.074	148.074	148.074	157.881	148.074	800.000	157.881
-12.484	148.806	148.806	148.806	148.136	148.136	148.136	148.136	161.370	148.136	820.617	161.370
-12.484	148.806	148.806	148.806	148.136	148.136	148.136	148.136	161.370	148.136	820.617	161.370
-12.868	148.899	148.899	148.899	148.136	148.136	148.136	148.136	161.767	148.136	825.000	161.767
-14.973	148.974	148.974	148.974	148.224	148.224	148.224	148.224	163.947	148.224	850.000	163.947
-20.272	149.050	149.050	149.050	148.300	148.300	148.300	148.300	169.322	148.300	875.000	169.322
-17.615	149.125	149.125	149.125	148.375	148.375	148.375	148.375	166.736	148.375	900.000	166.736
-4.930	149.200	149.200	149.200	148.450	148.450	148.450	148.450	154.129	148.450	925.000	154.129
3.537	149.232	149.232	149.232	148.482	148.482	148.482	148.482	145.699	148.482	950.947	145.699

Diagrama curbunilor
Scara=1:1000 - 5./R

Curvature diagram
Scara=1:1000 - 5./R

Diagrama supralatimilor
M=1:1000 - 0.1 x h

Superelevation diagram
M=1:1000 - 0.1 x h



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
- 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.
- The project will be verified at A.4, B.2 and D.2 requirements.

OBSERVATE:

- Pe toate suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum fierizat.
- Protectia betonata a albie 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 lucrarilor se vor folosi ca repere in 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 5.1
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



Verificator / Expert
Checker / Expert

Cerinta / Expert
Requirement

Semnatura
Signature

Referat / Expertiza
Report / Expertise



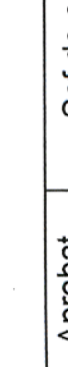
MINISTERUL
TRANSPORTURILOR

BENEFICIAR / BENEFICIARY:



COMPANIA NATIONALA DE CAI FERATE "CFR" SA

PROIECTANT / DESIGNER:



Semnatura
Signature

Data
Date

Sef de echipa
Team leader

Expert Cheie
Key Expert

Aprobat
Approved

Proiectat
Designed

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

"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"

Denumire desen / Drawing name:
LONGITUDINAL SECTION
RETAINING WALL RW 5
km. 559+730 - km 559+925

Scara / Scale
1:1000

Cod desen / Drawing Code
RW 5.2

Nr / No
RW 5