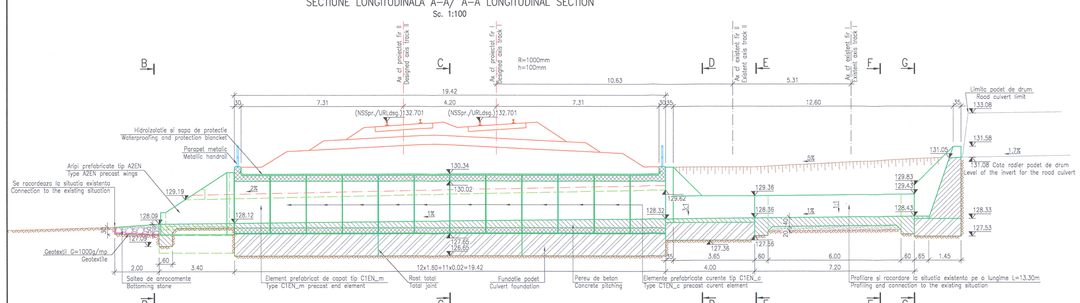
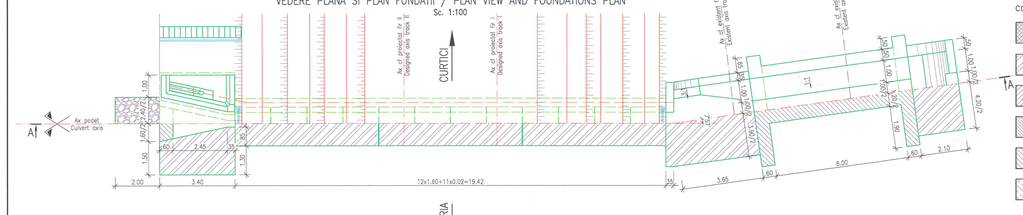
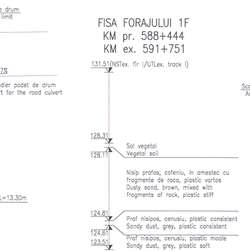
SECTIUNE LONGITUDINALA A-A/ A-A LONGITUDINAL SECTION
Sc. 1:100



VEDERE PLANA SI PLAN FUNDATII / PLAN VIEW AND FOUNDATIONS PLAN
Sc. 1:100



FISA FORAJULUI 1F
KM pr. 588+444
KM ex. 591+751



LEGENDA BETOANELOR/CONCRETE LEGEND conform NE 012-1:2007/SR EN 206-1

BETON C35/45 – Clasa de expunere XC4+XD1+XF3, agregate Dmax 22
ELEMENTE PREFABRICATE/PREFABRICATED ELEMENTS

BETON C25/30 – Clasa de expunere XC2+XF1+XA1, agregate Dmax 22.
FUNDATII DIRECTE AND TEMPORARY FOUNDATIONS/DIRECT FOUNDATIONS AND TEMPORARY FOUNDATIONS

BETON C25/30 – Clasa de expunere XC4+XF3, agregate Dmax 22.
ELEVATII SI ZIDURI DE SPRIJIN/ELEVATIONS AND RETAINING WALLS

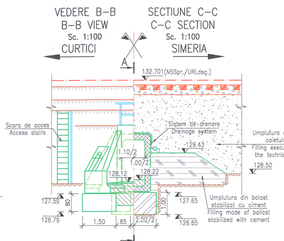
BETON C25/30 – Clasa de expunere XC4+XF1+XM1, agregate Dmax 16.
SAPA DE PROTECTIE A HIDROIZOLATIEI/WATERPROOFING PROTECTION

BETON C25/30 – Clasa de expunere XC4+XF3+XA1, agregate Dmax 22.
PEREU SI SCARI DE ACCES/PITCHING, ACCES AND STAIRS

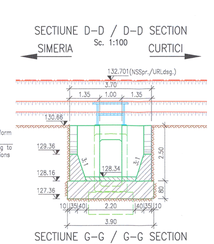
BETON C16/20 – Clasa de expunere X0+XF3, agregate Dmax 16.
DREN, BETON DE PANTA, DE EGALIZARE SI FUNDATII PROVIZORII
DRAINAGE, SLOPE, LEAN CONCRETE AND TEMPORARY FOUNDATIONS

CONVOI DE CALCUL LM71
CALCULATION CONVOY LM71

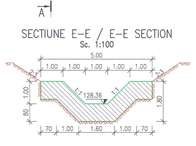
VEDERE B-B / SECTIUNE C-C
B-B VIEW / C-C SECTION
Sc. 1:100



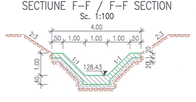
SECTIUNE D-D / D-D SECTION
Sc. 1:100



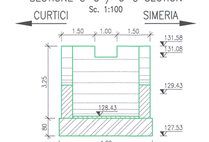
SECTIUNE E-E / E-E SECTION
Sc. 1:100



SECTIUNE F-F / F-F SECTION
Sc. 1:100



SECTIUNE G-G / G-G SECTION
Sc. 1:100



OBSERVATIE: Pe toate suprafetele din beton in contact cu pamantul se vor aplica 2 straturi de emulsie din bitum filerizat.

ATTENTION: All concrete surfaces in contact with soil will be coated with 2 bituminous layers.

PLANURI DETALII GENERALE / GENERAL DRAWING DETAILS

ACOPERIRE ROSTURI ELEMENTE PREFABRICATE JOINTS COVERING PRECAST ELEMENTS	P T 0 2 0 2 0 0 P 0 0 0 1
HIDROIZOLATIE SI SISTEM DE DRENARE PODETE WATERPROOFING AND DRAINAGE SYSTEM CULVERTS	P T 0 2 0 2 0 0 P 0 0 0 2
PARAPET METALIC PODETE METALLIC HANDRAIL CULVERTS	P T 0 2 0 2 0 0 P 0 0 0 3
PLAN COFRAJ CADRU TIP C1EN_m SHUTTERING PLAN FRAME TYPE C1EN_m	P T 0 2 0 2 0 0 P 0 0 0 7
PLAN COFRAJ CADRU TIP C1EN_c SHUTTERING PLAN FRAME TYPE C1EN_c	P T 0 2 0 2 0 0 P 0 0 0 8
PLAN COFRAJ ARIPA TIP A2EN SHUTTERING PLAN WING A2EN TYPE	P T 0 2 0 2 0 0 P 0 0 1 4
SCARA DE ACCES SI BALUSTRADA METALICA ACCESS STAIRS AND METALLIC BALUSTRADE	P T 0 2 0 2 0 0 P 0 0 2 2
FUNDATII PREFABRICATA PENTRU PODURI PROVIZORII SI DETALII DE REZEMARE PODURI PROVIZORII PREFABRICATED FOUNDATION FOR TEMPORARY BRIDGES AND PROPPING-UP DETAILS FOR TEMPORARY BRIDGES	P T 0 2 0 2 0 0 P 0 0 2 3

NOTA:
1. Prezentul plan s-a intocmit in baza urmatoarelor date:
– studiu topografic;
– studiu geotehnic;
– studiu hidraulic;
– expertiza podetului;
– date culese pe teren.
2. Pentru asigurarea scurgerii apelor pe zona traseului cf nou proiectat se va executa urmatoarele lucrari:
– se va executa un podet nou cf tip C1EN;
– racordarea podetului nou cu terasamentele va fi asigurate in aval cu aripi prefabricate tip A2EN si in amonte cu timpan de beton;
– se vor impermeabiliza suprafetele de beton vizibile;
– se prevede parapet metalic pe ambele timpane ale podetului;
– se prevad scari de acces pe terasament in aval, iar in amonte in canalul de beton;
– se va amenaja albia in interiorul podetului si intre aripi cu pereu de beton;
– in aval se va prevede saltea de 2.00m lungime, din piatra bruta si se va racorda albia la situatia existenta;
– in amonte se va profila si proteja albia pe o lungime de 13.30m si se va racorda albia la situatia existenta;
– la turnarea betonului in fundatii, se vor realiza rosturi totale.
3. La executie se vor respecta cu strictete prevederile din SR EN 206–1, NE 012–1:2007, NE 012–2:2010, NE013/2002, si C56–85 (C56–2002) si a Caietului de Sarcini.
4. Conform H.G. 766/1997 lucrarea se incadreaza in categoria "B" a constructiilor de importanta deosebita.
5. Proiectul va fi verificat de verificatori atestati MLPAT la exigentele A.4, B.2 si D.2.

NOTE:
1. This plan was prepared based on the following data:
– topographic study;
– geotechnical study;
– hydraulic study;
– expertise of the culvert;
– data collected on site.
2. In order to ensure the water discharge on the area of the new railway designed route, the following works will be executed:
– the execution of a new railway culvert type C1EN;
– the connection of the new culvert with the embankments will be carried out downstream by help of precast wings type A2EN and upstream by help of a concrete tympan;
– the visible surfaces of concrete will be waterproofed;
– metallic handrail is provided at both tympans of the culvert;
– access stairs are provided on the embankment on downstream and on upstream in the concrete channel;
– the riverbed will be arranged inside the culvert and between wings with concrete pitching;
– executing a 2.00m long mattress, made of rough stone and connecting to the existing situation on downstream;
– profiling and protection the riverbed on upstream on a length of 13.30m and connecting the natural riverbed to the existing situation;
– when casting the concrete in the foundations, total joints will be executed.
3. When executing, there will be strictly observed the provisions of SR EN 206–1, NE 012–1:2007, NE 012–1:2010, NE013/2002, C56–85 and of 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.

RACANEL I. IONUT RADU
ROMÂNIA M.L.P.A.T.
Nr. 07230
VERIFICATOR PROIECTE
INGINERIE

SLOBOZIA CONSTRUCT
ROMÂNIA
EXPERT
VERIFICATOR PROIECTE

SIMEDRU I. MARIN
ROMÂNIA M.L.P.A.T.
NR. 11.441.84.83
VERIFICATOR PROIECTE

Prezentul plan anuleaza si inlocuieste versiunea anterioara
This plan cancels and replaces previous version

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	01.2013	
Verificat Checked	Expert Cheie Key Expert	R. Tudorascu	01.2013	

Subcontractant / Subcontractor: VIOTOP

Aprobat Approved	Adjunct Sef de echipa Deputy Team leader	A.M. Baicu	01.2013	
Proiectat Designed	Inginer Engineer	D. Stanciu	01.2013	

"Reabilitarea liniei c.f. Frontier à - Curtici - Simeria, parte componentă a coridorului IV Pan - European pentru circulaţia pe trenuri/or cu viteză maximă de 160 km/h"
Transonsul 2-A : km 614 - cap Y Bârzava
"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-A : km 614 - end Y Bârzava

Project 9i 35311.1

Faza / Phase: PTH+CS / TD+TS

Denumire desen / Drawing name:
DISPOZITIE GENERALA / GENERAL LAYOUT
PODET / CULVERT KM pr. 588+444 (KM ex. 591+764)

Scara / Scale	Revizia / Revision	Cod desen / Drawing Code	Nr / No
1:100	1 / 04.2013	PT.02.02.07.PO.07.03	03