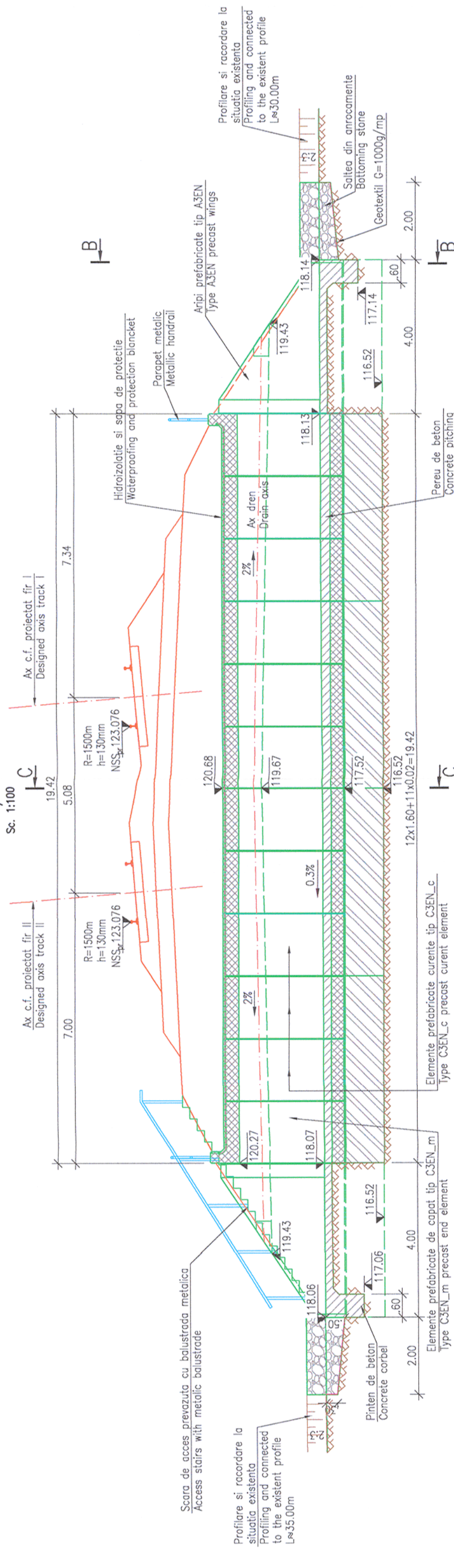
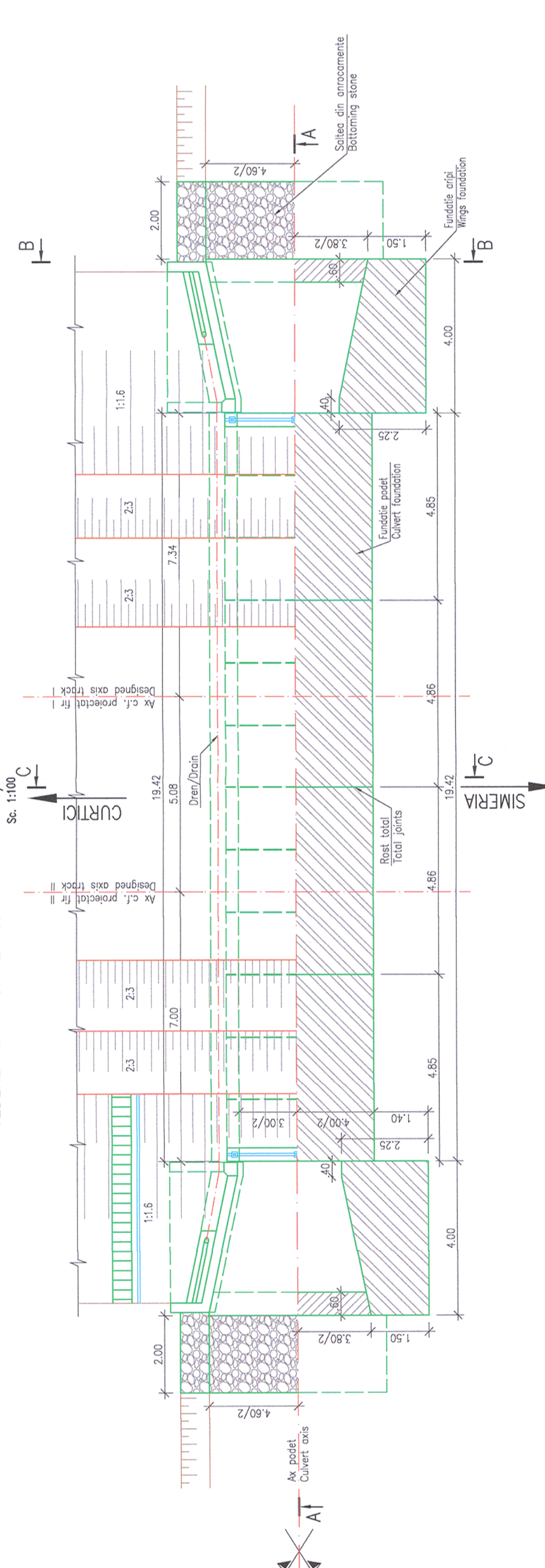


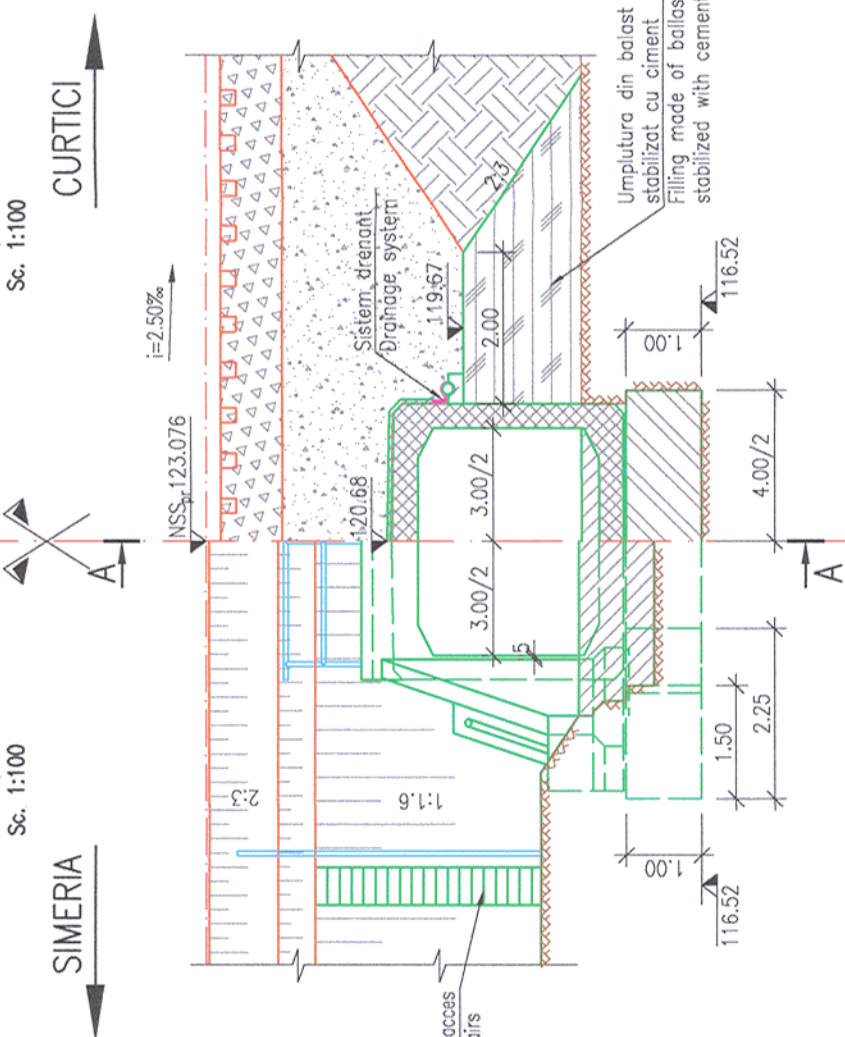
SECTIUNE LONGITUDINALA A-A / A-A LONGITUDINAL SECTION



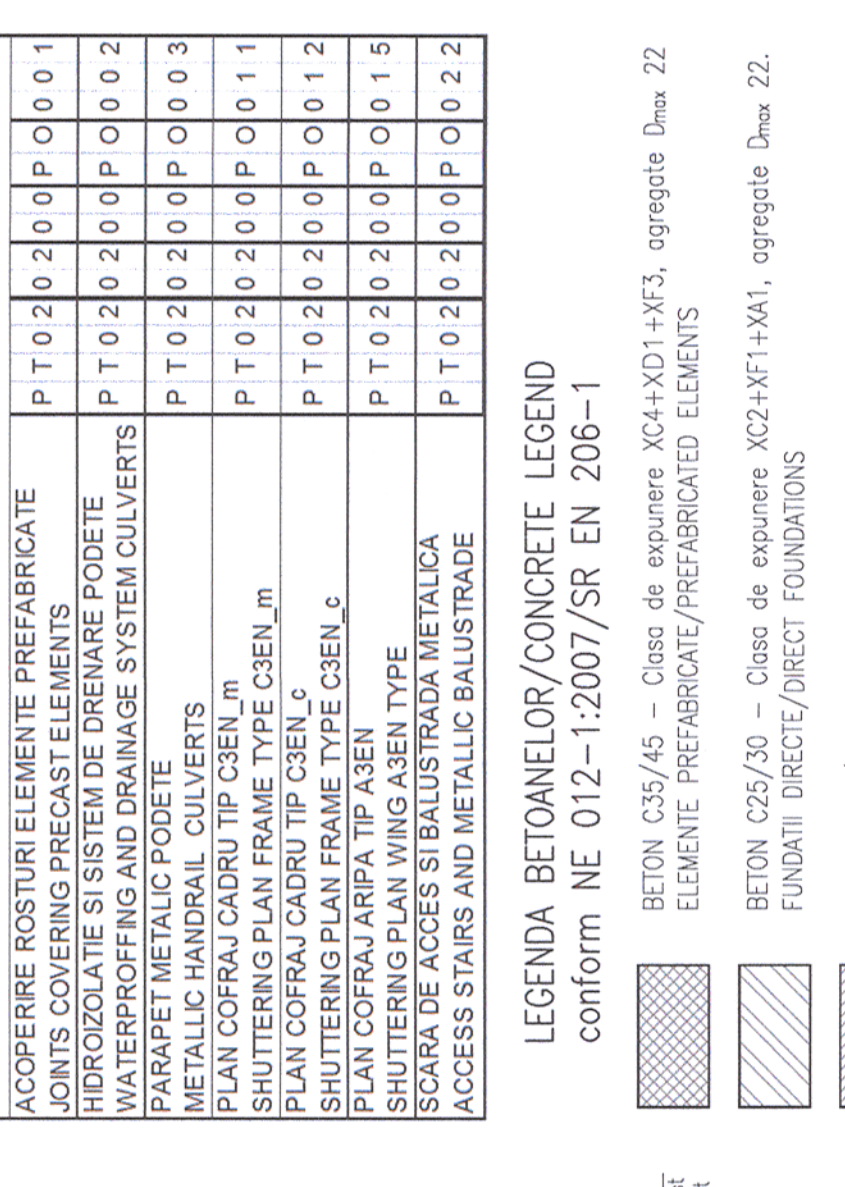
VEDERE PLANA SI PLANUL FUNDATIILOR / PLAN VIEW AND FOUNDATIONS PLAN



VEDERE B-B / B-B VIEW



SECTIUNE C-C / C-C SECTION



FORMA FISA PODET
SHEET OF CULVERT DRILING
km ex. 609+625

118.60	Sol vegetat/vegetal soil
118.30	Argila petrolasa/fatty clay
117.80	Nepa la capatai/flat side road covey
117.60	Nepa mijlocia si mare/mid/large side road covey
117.10	Melasa and slag side road composition
116.10	Perete cu nisip si balustrada metalica
	Steel mixed with sand and table stone

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

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

NOTE:

- The present drawing was drafted based on the following data:
 - topographic study;
 - geotechnical study;
 - hydrological study;
 - sheet of the culvert;
 - data collected on site;
- In order to execute the new culvert, there will not be carried on the next works:
 - there will be carried on a new culvert, type C3EN;
 - the connection of the new culvert with the precast wings type A3EN;
 - handrail made of metallic pipes on the both tympan of the culvert;
 - there will be provided access scales on the embankment, on one side and the other side of the culvert;
 - there will be arranged the riverbed inside the culvert and between the wings with pitching;
 - the mattresses of 2.00 m length made of rubble stone at the upstream and downstream end of the culvert;
 - the arrangement of the riverbed on approx. 35m upstream and 30m downstream from the culvert in order to ensure the water discharge in proper conditions;
 - all the visible concrete surfaces will be waterproofed;
 - When casting the concrete of foundations, the total joints will be executed. The joints from foundations will overlap on the joints existent between the precast frames;
- The provisions of the following legislation are to be strictly observed during execution "Code of practice for executing the concrete, reinforced concrete and prestressed concrete works", indicative NE 012-1:2007, NE 012-2:2010 and NE 013/2002, "Normative for checking the quality and the taking-over of related construction works" indicative C56-85, SR EN 206-1 and 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.

PLANURI DETALII GENERALE / GENERAL DRAWING DETAILS

ACOPERIRE ROSTURI ELEMENTE PREFABRICATE JOINTS COVERING PRECAST ELEMENTS	P T 0 2 0 2 0 0 P O 0 0 1
HIDROIZOLATIE SI SISTEM DE DRENARE PODETE WATERPROOFING AND DRAINAGE SYSTEM CULVERTS	P T 0 2 0 2 0 0 P O 0 0 2
PARAPET METALIC PODETE METALLIC HANDRAIL CULVERTS	P T 0 2 0 2 0 0 P O 0 0 3
PLAN COFRAJ CADRU TIP C3EN_m SHUTTERING PLAN FRAME TYPE C3EN_m	P T 0 2 0 2 0 0 P O 0 1 1
PLAN COFRAJ CADRU TIP C3EN_c SHUTTERING PLAN FRAME TYPE C3EN_c	P T 0 2 0 2 0 0 P O 0 1 2
PLAN COFRAJ ARIPI TIP A3EN SHUTTERING PLAN WING A3EN TYPE	P T 0 2 0 2 0 0 P O 0 1 5
SCARA DE ACCES SI BALUSTRADA METALICA ACCESS STAIRS AND METALLIC BALUSTRADE	P T 0 2 0 2 0 0 P O 0 2 2

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/DIRECT FOUNDATIONS
	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 AND ACCESS STAIRS
	BETON C16/20 - Clasa de expunere X0+XF3, agregate Dmax 16. DREN/DRAINAGE

NOTE:

- The present drawing was drafted based on the following data:
 - topographic study;
 - geotechnical study;
 - hydrological study;
 - sheet of the culvert;
 - data collected on site;
- In order to execute the new culvert, there will not be carried on the next works:
 - there will be carried on a new culvert, type C3EN;
 - the connection of the new culvert with the precast wings type A3EN;
 - handrail made of metallic pipes on the both tympan of the culvert;
 - there will be provided access scales on the embankment, on one side and the other side of the culvert;
 - there will be arranged the riverbed inside the culvert and between the wings with pitching;
 - the mattresses of 2.00 m length made of rubble stone at the upstream and downstream end of the culvert;
 - the arrangement of the riverbed on approx. 35m upstream and 30m downstream from the culvert in order to ensure the water discharge in proper conditions;
 - all the visible concrete surfaces will be waterproofed;
 - When casting the concrete of foundations, the total joints will be executed. The joints from foundations will overlap on the joints existent between the precast frames;
- The provisions of the following legislation are to be strictly observed during execution "Code of practice for executing the concrete, reinforced concrete and prestressed concrete works", indicative NE 012-1:2007, NE 012-2:2010 and NE 013/2002, "Normative for checking the quality and the taking-over of related construction works" indicative C56-85, SR EN 206-1 and 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.

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

Verificator / Expert
Checker / Expert

Cerinta
Requirement

Semnatura
Signature

Referat / Expunere
Report / Exposé

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NATIONALA DE CAI FERATE "CFR" SA

PROIECTANT / DESIGNER:

PÖYRY

Data
Date

Semnatura
Signature

Aprobat
Approved

Verificat
Checked

Sef de echipa
Team leader

Expert Cheie
Key Expert

C. Teodorescu

R. Tudorascu

Subcontractant / Subcontractor

VIOTOP

Aprobat
Approved

Proiectat
Designed

Adjunct Sef de echipa
Deputy Team leader

Inginer
Engineer

A.M. Baicu

A. Negrei

01.2013

01.2013

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

Tronsoanel 2-A : km 614 - cap Y Bărzava

"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 Bărzava

Denumire desen / Drawing name:

DISPOZITIE GENERALA / GENERAL LAYOUT
PODET / CULVERT KM pr. 606+225 (KM ex. 609+625)

Scara / Scale
1:100

Revizia / Revision
1 / 04.2013

Cod desen / Drawing Code
PT.02.02.01.PO.01.03

Nr / No
03