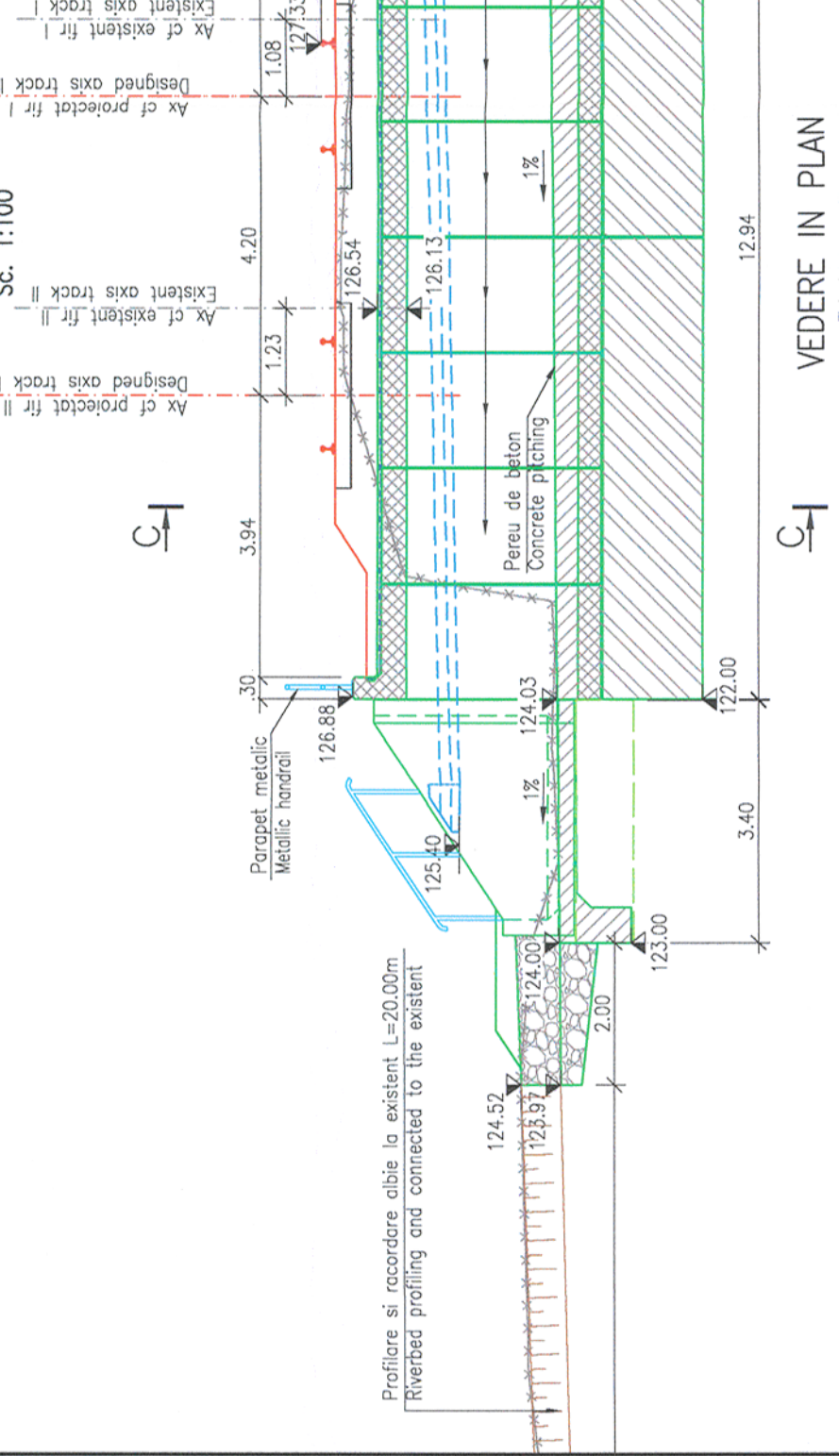
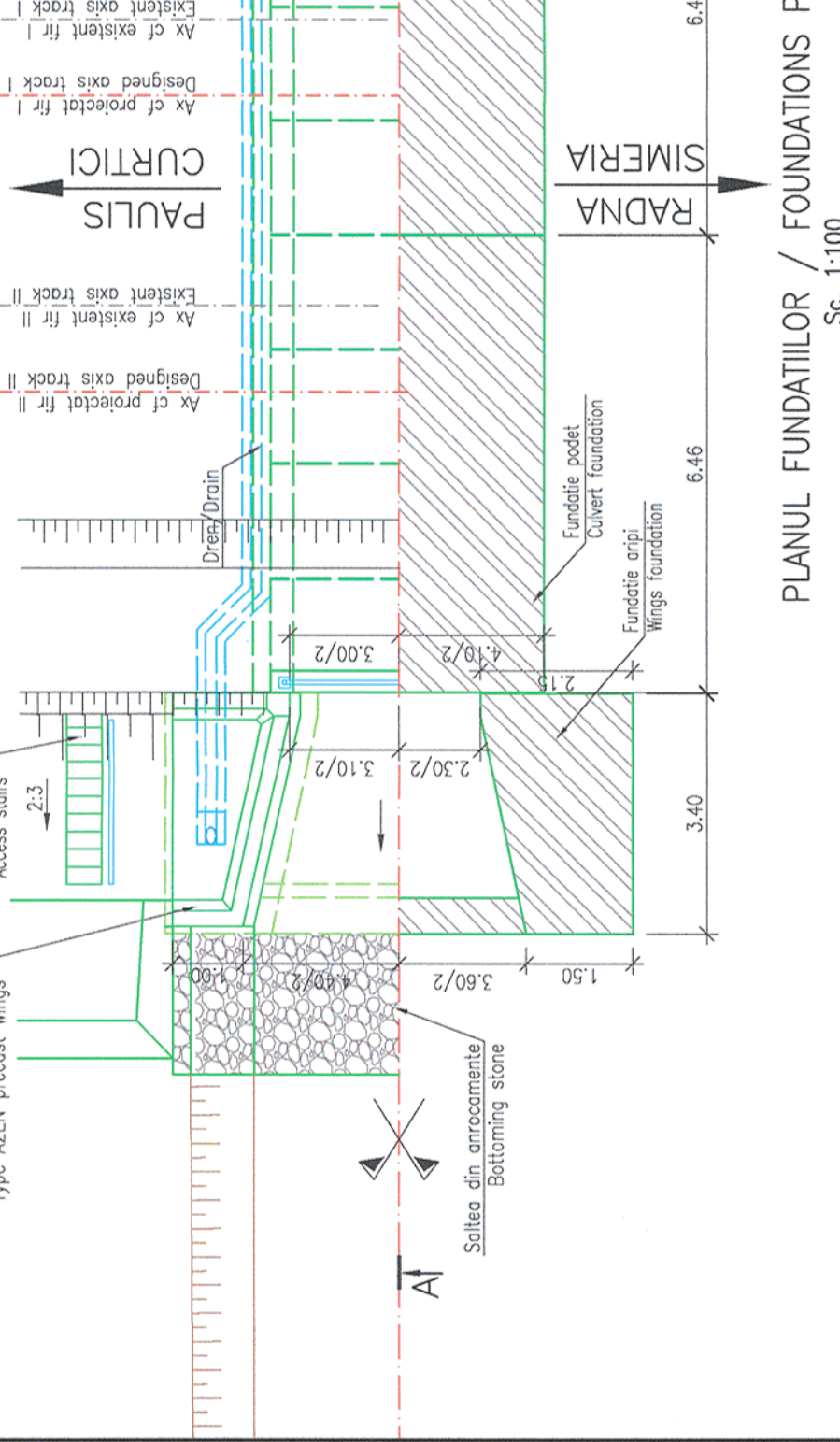


SECTIUNE LONGITUDINALA A-A
A-A LONGITUDINAL SECTION
Sc. 1:100



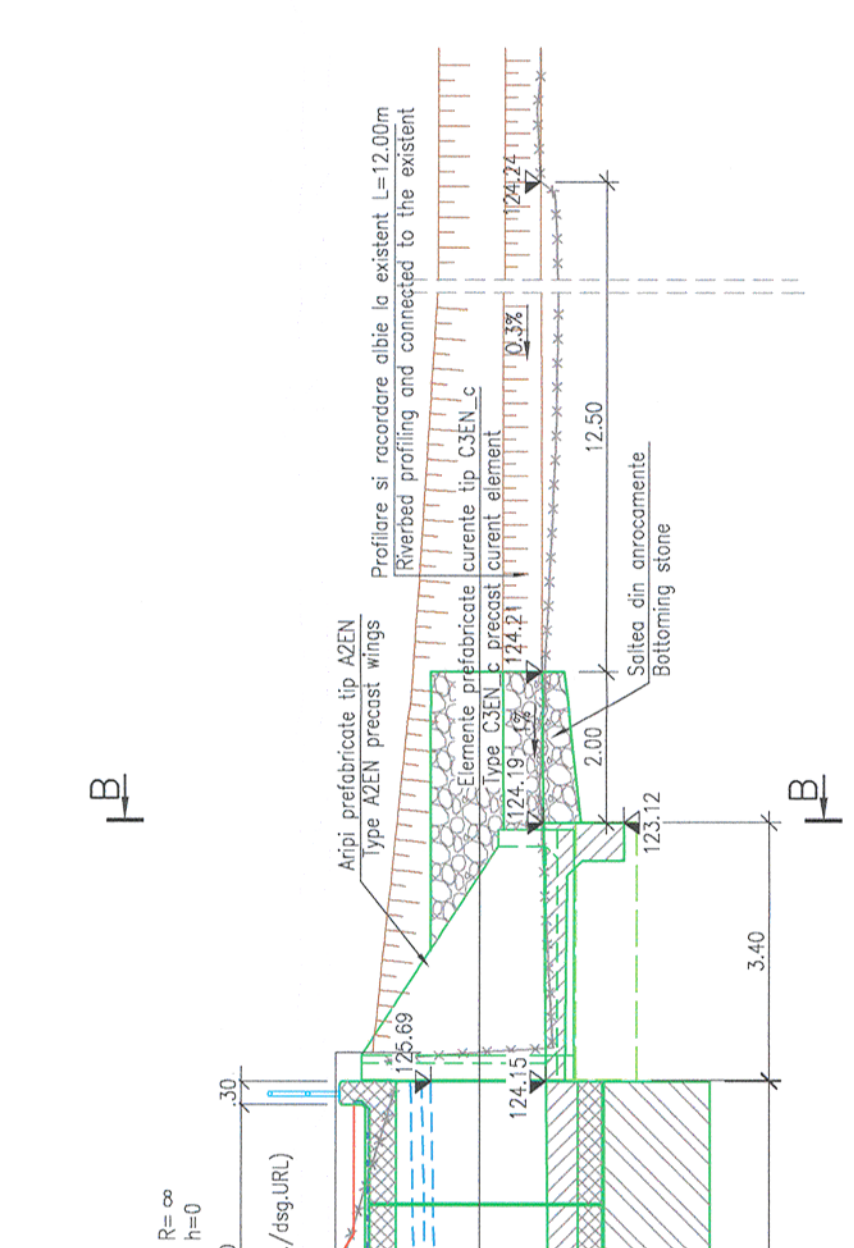
VEDERE IN PLAN PLAN VIEW
Sc. 1:100



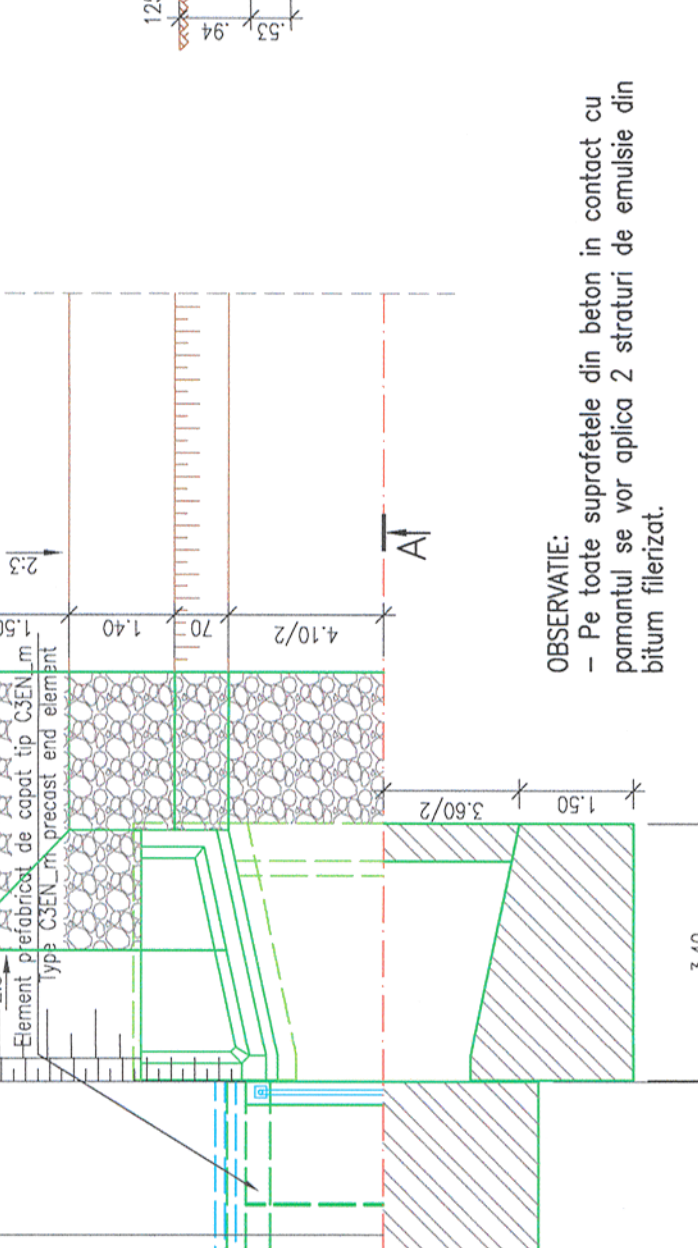
PLANUL FUNDATIILOR / FOUNDATIONS PLAN
Sc. 1:100



SECTIUNE B-B
B-B SECTION
Sc. 1:100



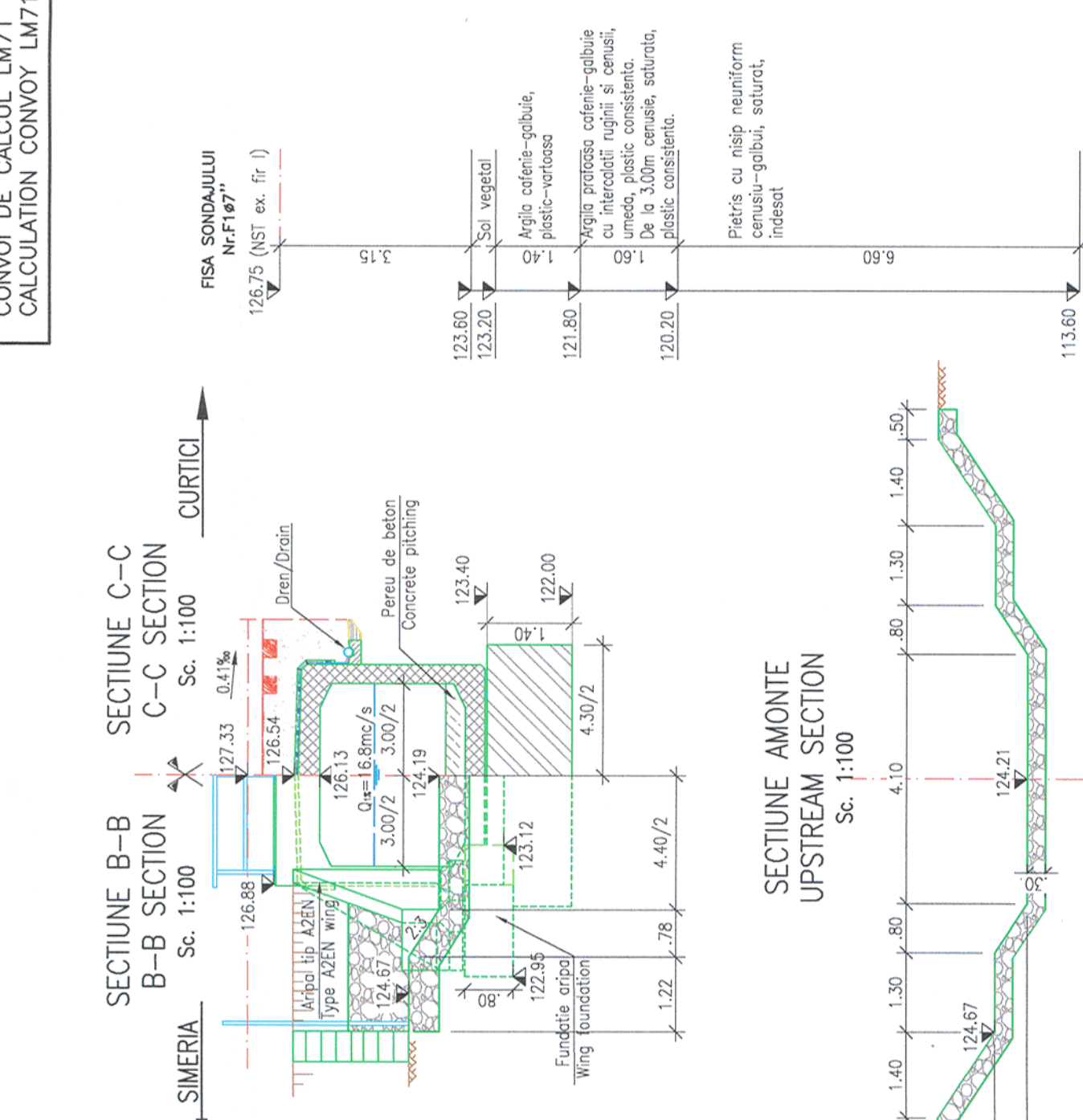
SECTIUNE AMONTE
UPSTREAM SECTION
Sc. 1:100



SECTIUNE AVAL
DOWNSTREAM SECTION
Sc. 1:100

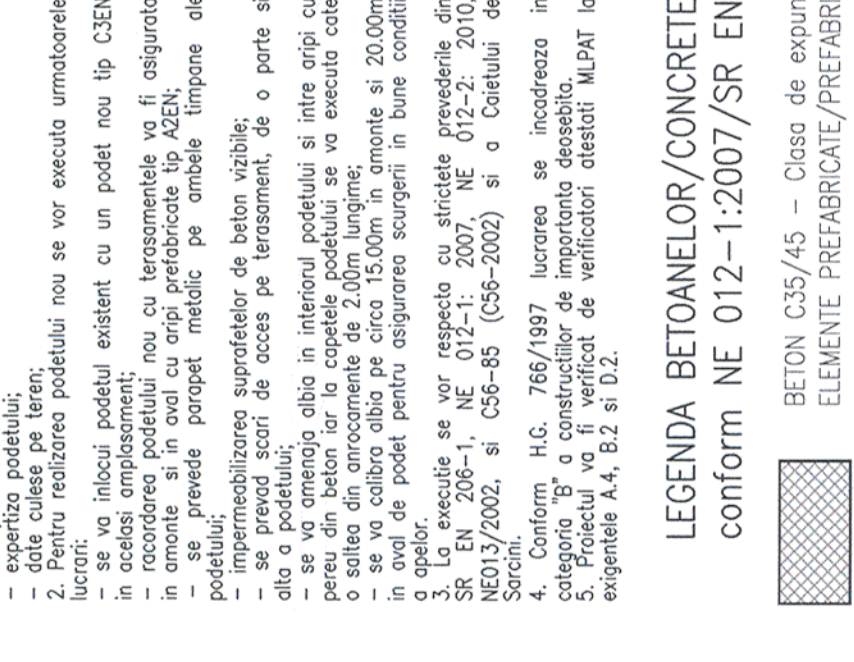


CONVOI DE CALCUL LM71
CALCULATION CONVVOY LM71



PLANURI DETALII GENERALE / GENERAL DRAWING DETAILS	
ACOPERIRE ROSTURIELEMENTE PREFABRICATE JOINTS COVERING PRECAST ELEMENTS	P T 0 2 0 2 0 0 P 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 2
PARAPET METALIC PODETE METALLIC HANDRAIL CULVERTS	P T 0 2 0 2 0 0 P 0 0 3
PLAN COFRAJ CADRU TIP C3EN_m SHUTTERING PLAN FRAME TYPE C3EN_m	P T 0 2 0 2 0 0 P 0 1 1
PLAN COFRAJ CADRU TIP C3EN_c SHUTTERING PLAN FRAME TYPE C3EN_c	P T 0 2 0 2 0 0 P 0 1 2
PLAN COFRAJ ARIPA TIP AZEN SHUTTERING PLAN WING-AZEN TYPE	P T 0 2 0 2 0 0 P 0 1 4

SECTIUNE C-C
C-C SECTION
Sc. 1:100



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



NOTE:

- This plan was prepared on the basis of the following data:
 - topographic survey;
 - geotechnical study;
 - hydraulic study;
 - culvert sheet;
 - culvert expertiser;
 - data collected from the site.
- more the new culvert, the following works will be carried-out:
 - the existing culvert will be replaced with a new culvert type C3EN in the same location;
 - the connection of the new culvert with the precast wings will be ensured upstream and downstream with precast wings type AZEN;
 - metallic handrail is provided at both ends of the culvert;
 - all the visible concrete surfaces will be waterproofed;
 - the embankment on one side and the other of the culvert;
 - the riverbed will be arranged inside the culvert and between wings with concrete pitching and a 2.00m long matress will be calibrated at the ends of the culvert;
 - the riverbed will be calibrated on approximately 15.00m upstream and 20.00m downstream from the culvert in order to ensure the discharge good of SR EN 206-1, NE 012-2: 2010, NE 013/2002 and C56-85 (C56-2002) and of the Technical Specifications will be strictly observed.
 - According to G.D. 766/1997, the work pertains to category "B" of special importance constructions.
 - The design will be checked by MLPAT certified checkers at engincies A.4, B.2 and D.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 16. FUNDATIILOR 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 16. PEREU SI SCARI DE ACCES/PITCHING, ACCESS STAIRS
- BETON C16/20 - Clasa de expunere XD+XF3, agregate Dmax 16. DREN, BETON DE EGALIZARE/DRAINAGE, AND LEAN CONCRETE

ACOPERIRE ROSTURIELEMENTE PREFABRICATE
JOINTS COVERING PRECAST ELEMENTS

HIDROIZOLATIE SI SISTEM DE DRENARE PODETE
WATERPROOFING AND DRAINAGE SYSTEM CULVERTS

PARAPET METALIC PODETE
METALLIC HANDRAIL CULVERTS

PLAN COFRAJ CADRU TIP C3EN_m
SHUTTERING PLAN FRAME TYPE C3EN_m

PLAN COFRAJ CADRU TIP C3EN_c
SHUTTERING PLAN FRAME TYPE C3EN_c

PLAN COFRAJ ARIPA TIP AZEN
SHUTTERING PLAN WING-AZEN TYPE

REFERAL / EXPERTIZA
Report / Expertise

VERIFICATOR / EXPERT
Checker / Expert

Semnatura
Signature

MINISTERUL
TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :
COMPANIA NATIONALA DE CAI FERATE "CFR" SA

PROIECTANT / DESIGNER:
PÖYRY

Data
Date

Semnatura
Signature

01.2013
01.2013

C. Teodorescu
R. Tudorascu

Subcontractant / Subcontractor
VIOTOP

Approved
Approved

Verificat
Checked

Approved
Approved

Proiectat
Designed

01.2013
01.2013

A.M. Baicu
F. Ioanidi

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

Tronsoanul 2-A : km 614 - cap Y Bârza

"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 Bârza

Denumire desen / Drawing name:
**DISPOZITIE GENERALA / GENERAL LAYOUT
PODET / CULVERT KM pr. 596+969 (KM ex. 600+306)**

Project 9/
35317.1

Faza / Phase:
PTH+CS / TD+TS

Scara / Scale
1:100

Revizia / Revision
1 / 04.2013

Cod desen / Drawing Code
PT.02.02.05.PO.02.03

Nr / No
03