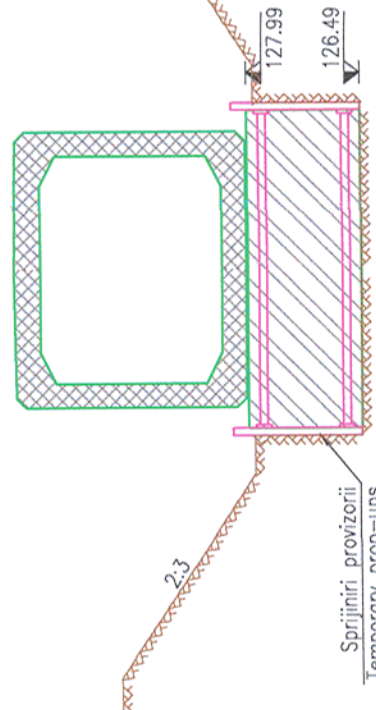


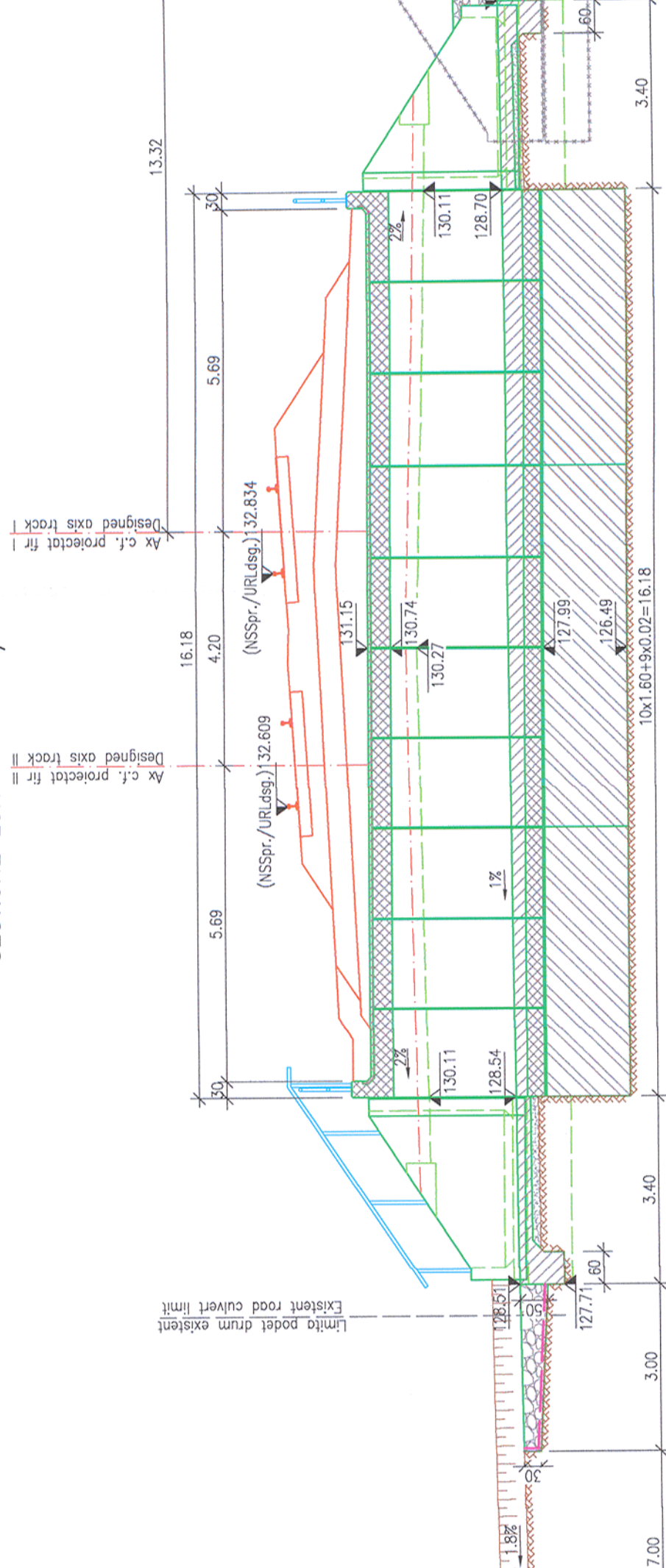
SECTIUNE TRANSVERSALA / CROSS SECTION



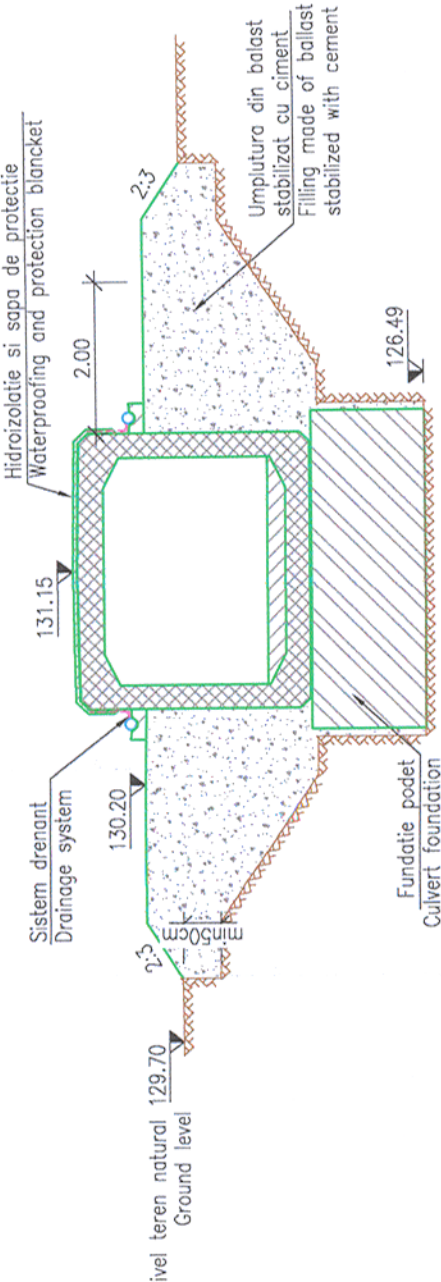
- ETAPA I: Sub circulatie pe ambele fire cu viteza normala, pe traseul existent
- Se amenajeaza drumul de acces, platforma tehnologica si organizarea de santier
  - Se traseaza si picheaza axele liniilor pentru traseul nou proiectat si infrastructurilor podetului nou.
  - Se executa sapatura cu sprijiniri pentru realizarea fundatiilor noi (podet si aripi).
  - Se demoleaza aripile podetului existent.
  - Se betonaza fundatiile podetului si arilor si se scot sprijinirile.
  - Se aseaza elementele prefabricate conform detaliilor din proiect.
  - Pe suprafetele din beton in contact cu pământul se vor aplica 2 straturi de emulsie din bitum fierizat.

- STAGE I: Under traffic with normal speed on both tracks, on the existent route
- Arranging the access road, technological platform and site organization.
  - Marking-out and pegging-out the axes of the lines for the new designed route and the new culvert infrastructures.
  - Making the excavation with propping for executing the new foundations (culvert and wings).
  - Demolishing the existent culvert's wings.
  - Concreting the foundations of the culvert and of the wings on the cast-in-place foundations and
  - Placed the precast elements type C3EN and type A2EN on the cast-in-place foundations and treating the joints between the precast elements according to the details in the design.
  - Applying 2 layers of filler bitumen emulsion on the concrete surfaces coming in contact with earth.

SECTIUNE LONGITUDINALA / LONGITUDINAL SECTION



SECTIUNE TRANSVERSALA / CROSS SECTION



- ETAPA II: Sub circulatie pe ambele fire cu viteza normala, pe traseul existent
- Se executa sapatura sub nivelul terenului natural.
  - Se executa umplutura din balast stabilizat cu ciment la cota.
  - Se executa fundatia drenului conform detaliilor din proiect.
  - Se executa sistemul drenant (geodren, geotextil si tub).
  - Se executa hidroizolatie protejata de sapa hidrotuga la extradosul coarelor.
  - Se executa perul in podet si inle aripi.
  - Se executa soltseaua din anrocamente la capatul din oval al podetului.
  - Se amenajeaza elbia podetului in oval, conform proiectului.

- STAGE II: Under traffic with normal speed on both tracks, on the existent route
- Making the excavation under the level of the natural ground.
  - Executing the filling made of ballast stabilized with cement at the dimension.
  - Executing the foundation of the drain according to the details in the design.
  - Executing the draining system (geo-drain, geo-textile and tube).
  - Executing the waterproofing protected by the culvert and between the wings.
  - Executing the pitching in the culvert and between the wings.
  - Executing the mattress of riprap at the downstream end of the culvert.
  - Arranging the riverbed of the culvert, according to the design.

TEHNOLOGIA DE POZARE A ELEMENTELOR PREFABRICATE:

- Pe betonul de fundatie intarit se astern 3cm de mortar de ciment ( 2cm pentru nivelare si 1cm pentru pozare).
- Prefabricatele se aseaza in amplasament, dupa care se ridica si se observa urma lasata pe stratul de mortar proaspăt. In cazul in care nu s-a realizat aseazarea pe toata suprafata, se completeaza cu mortar de ciment de poză. Operatia se repeta pana cand se obtine rezemarea pe toata suprafata.

PREFABRICATED ELEMENTS LAYING TECHNOLOGY:

- 3cm of cement mortar are placed on the hardened concrete foundation (2cm for levelling and 1cm for laying).
- The prefabricated elements are placed on site, after than there are rising the track leaved on the fresh mortar layer is observed. If the laying is not done on the whole surface, cement mortar is cast on. The operation is repeated till the whole supporting surface is obtained.

ETAPA III – DUPA EXECUTAREA TERASAMENTULUI:

- Sub circulatie pe ambele fire cu viteza normala, pe noul traseu proiectat.
- Se demoleaza suprastructura c.f. de pe traseul existent.
  - Se demoleaza podetul datat de pe traseul existent si se executa sapaturi in terasamentul existent pana la aducerea lui la nivelul terenului natural.
  - Se executa soltseaua din anrocamente din amonte.
  - Se executa scările de acces pe terasament.
  - Se monteaza parapetul de protectie metalic.
  - Se dezafecteaza platformele, accesele din zona de lucru, organizarea de santier.

STAGE III – AFTER THE EXECUTION OF THE EMBANKMENT:

- Under traffic with normal speed on both tracks, on the new designed route
- Demolishing the railway superstructure from the existent route.
  - Demolishing slab culvert from the existent route and executing excavations in the existent embankment, bringing to the level of the natural soil.
  - Executing the mattress of riprap at the upstream end of the culvert.
  - Arranging the with concrete pitching riverbed at the upstream from the culvert, up to the road culvert, according to the design.
  - Executing the stairs for access to embankment.
  - Mourning the metallic guard rails.
  - Closing-down the platforms, the accesses form the working area, the site organisation.



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



Verificator / Expert  
Checker / Expert

Cerinta / Requirement

Semnatura / Signature

Referinta / Referinta  
Report / Expertise

MINISTERUL TRANSPORTURILOR

BENEFICIAR / BENEFICIARY :

COMPANIA NATIONALA DE CAI FERATE "CFR" SA

PROIECTANT / DESIGNER:

POÏRY

Semnatura / Signature

Data / Date

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

D. Stanciu

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

"Rehabilitation of the Railway Line Border - 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

Project 9j

35311.1

Faza / Phase:

PTH+CS / TD+TS

Denumire desen / Drawing name:

TEHNOLOGIE DE EXECUTIE / EXECUTION TECHNOLOGY

PODET / CULVERT KM pr. 588+070 (KM ex. 591+375)

Scara / Scale

1:100

Revizia / Revision

1 / 04.2013

Cod desen / Drawing Code

PT.02.02.07.PO.05.04

Nr / No

04