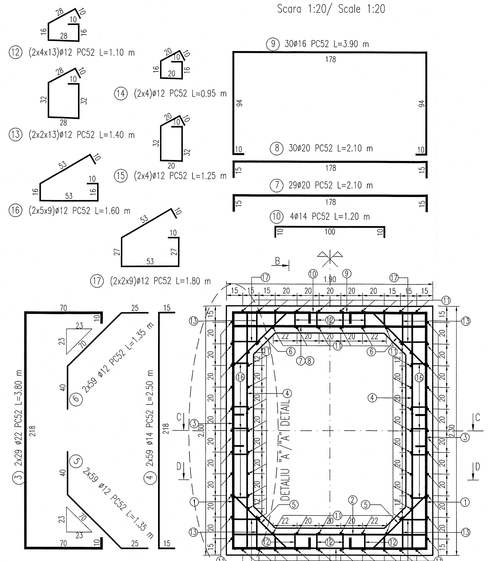
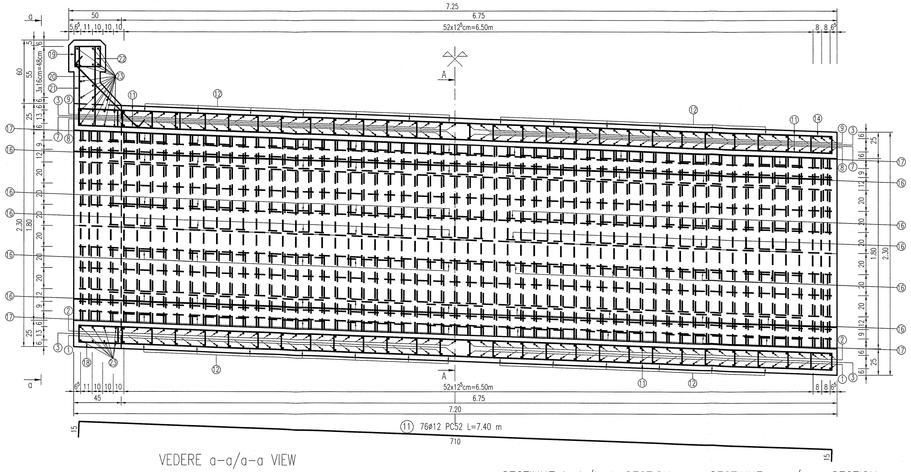
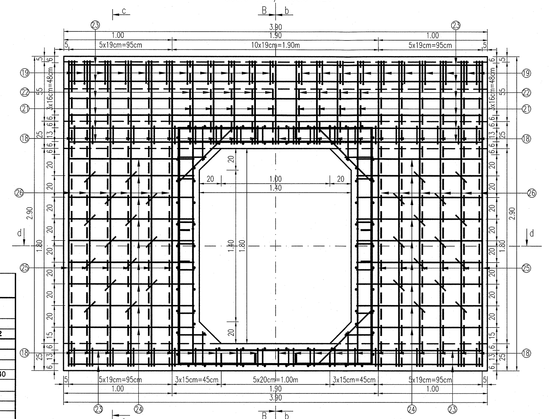
SECTIUNE A–A/ A–A SECTION
Scara 1:20/ Scale 1:20



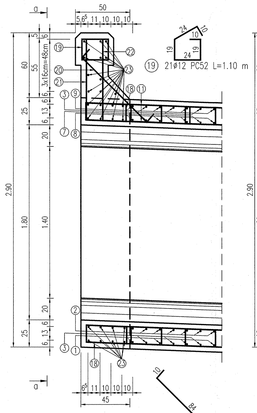
SECTIUNE B–B/ B–B SECTION
Scara 1:20/ Scale 1:20



VEDERE a–a/a–a VIEW
Scara 1:20/ Scale 1:20



SECTIUNE b–b/b–b SECTION
Scara 1:20/ Scale 1:20



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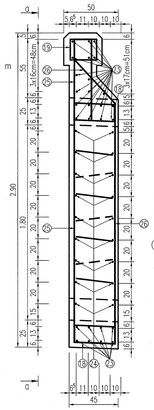
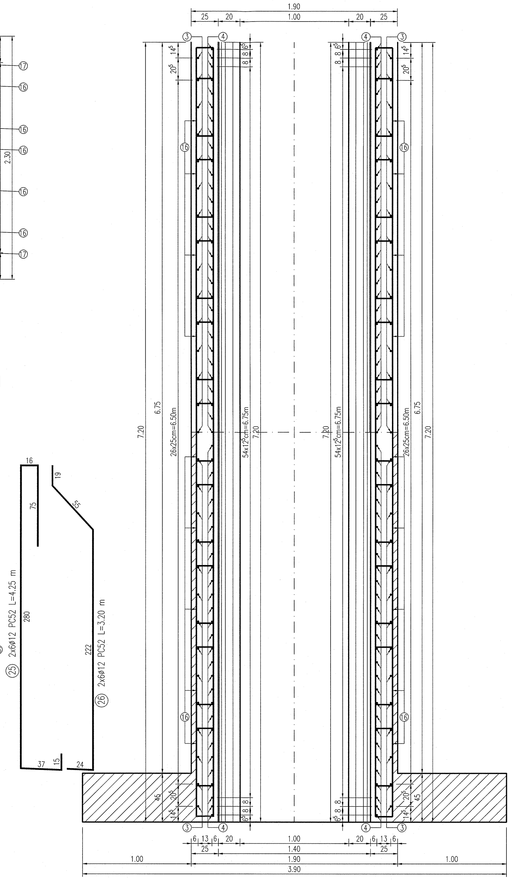
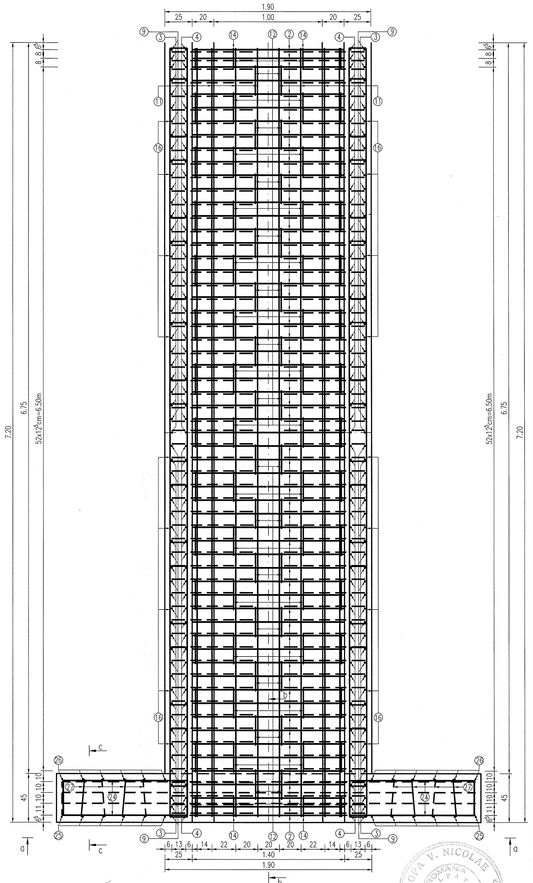


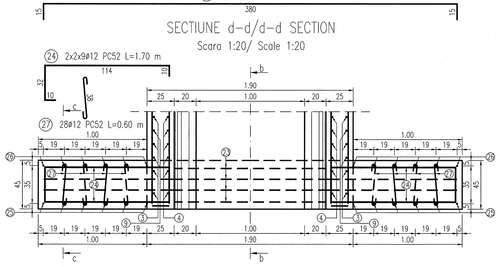
SECTIUNE C–C/ C–C SECTION
Scara 1:20/ Scale 1:20

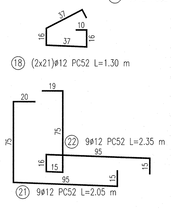


SECTIUNE D–D/ D–D SECTION
Scara 1:20/ Scale 1:20

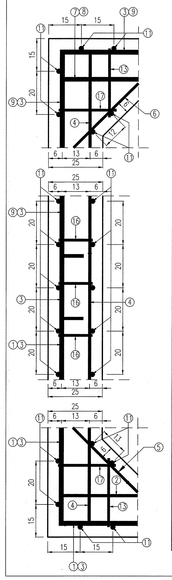


SECTIUNE d–d/d–d SECTION
Scara 1:20/ Scale 1:20





DETALIU "A"/"A" DETAIL
Scara 1:10/ Scale 1:10



EXTRAS DE ARMATURA PENTRU TRONSONUL MARGINAL, AMONTE L=7.20m / REINFORCEMENT TABLE FOR END SECTION, UPSTREAM L=7.20m

Marca / Mark	ϕ	Lungime bare / Bars lenght	Numar bare/ Bars number	Lungimi pe diametre / Length by diameter PC52 / PC52				
	[mm]	[m]	[buc./ pcs.]	Φ 12	Φ 14	Φ 16	Φ 20	Φ 22
1	2	3	4	5	6	5	6	7
1	14	3.90	30		117.00			
2	14	2.10	59		123.90			
3	22	3.80	58					220.40
4	14	2.50	118		295.00			
5	12	1.35	118	159.30				
6	12	1.35	118	159.30				
7	20	2.10	29				60.90	
8	20	2.10	30				63.00	
9	16	3.90	30			117.00		
10	14	1.20	4		4.80			
11	12	7.40	76	562.40				
12	12	1.10	104	114.40				
13	12	1.40	52	72.80				
14	12	0.95	8	7.60				
15	12	1.25	8	10.00				
16	12	1.60	90	144.00				
17	12	1.80	36	64.80				
18	12	1.30	42	54.60				
19	12	1.10	21	23.10				
20	12	1.05	9	9.45				
21	12	2.05	9	18.45				
22	12	2.35	9	21.15				
23	12	4.10	27	110.70				
24	12	1.70	36	61.20				
25	12	4.25	12	51.00				
26	12	3.20	12	38.40				
27	12	0.60	28	16.80				
Lungimi pe diametru/ Lenghts per diameter [m]				1699.45	540.70	117.00	123.90	220.40
Masa pe metru/ Weight per meter [kg/m]				0.888	1.208	1.578	2.466	2.984
Masa pe diametru/ Weight per diameter [kg]				1508.80	653.39	184.67	305.56	657.68
TOTAL ARMATURA PENTRU TRONSONUL MARGINAL, AMONTE / TOTAL REINFORCEMENT FOR END SECTION, UPSTREAM [kg]				3315				

BETON:
C35/45
OTEL: PC 52;
STRAT DE ACOPERIRE 4.0cm

CONCRETE:
C35/45
STEEL: PC 52;
CONCRETE COVER LAYER 4.0cm

CARACTERISTICILE BETONULUI
C35/45–XC4,XD1,XF3(RO)–D_{max}22–S2–CEM IIA–S 42.5R–A/C=0.50–P^{0}_{10}

CONCRETE CARACTHERISTICS
C35/45–XC4,XD1,XF3(RO)–D_{max}22–S2–CEM IIA–S 42.5R–A/C=0.50–P^{0}_{10}

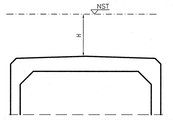
CARACTERISTICILE UNUI TRONSON
LUNGIME TRONSON=7.20m

VOLUM BETON	16.80 mc
GREUTATE	42.00 t
OTEL PC 52	3520.00kg
COFRAJE	122.50mp

SECTION CHARACTERISTICS
LENGTH SECTION=7.20m

CONCRETE VOLUM	16.80 mc
WEIGHT	42.00 t
REINFORCEMENT TYPE PC 52	3520.00kg
CONCRETE FORM	122.50mp

Domeniul de aplicabilitate
(NST–extrados)
Abrisment H=0.54÷5.00m
Curba H=0.54÷5.00m
Field of application
(NST – extrados)
Alignment H=0.54÷ 5.00m
Curve H=0.54÷5.00m
SCARA 1:100
SCALE 1:100



Data / Date	Modificare / Modification / Revision
B	
A	

BENEFICIAR/ BENEFICIARY: ROMANIAN RAILWAY NATIONAL COMPANY

AUTORITATEA DE IMPLEMENTARE/ IMPLEMENTING AUTHORITY: Ministerul Transporturilor / Ministry of Transports

AUTORITATEA CONTRACTANTA / CONTRACTING AUTHORITY: Ministerul Economiei si Finantelor/ Oficiul de Plati si Contractare Phare / Ministry of Economy and Finances/ Phare Payments &Contracting Office

Contract / Contract: 2003/005-551.01.01.01

Faza / Phase: PTH+DDE / PTH+DE

UNIUNEA EUROPEANA / EUROPEAN UNION

Proiect finanțat prin / Project financed by: POS Transport 2007- 2013

prointec | CONSIS PROJECT

Întocmit / Designed	Ing. Adrian Halducu	
Verificat / Checked	Ing. Bogdan Sandu	
Șef echipa / Team leader	Ing. Stelian Vara-Oros	

Scara / Scale: 1:20, 1:50, 1:100
Data / Date: 05.2009

PORTOFOLIU DE PROIECTE PHARE CES 2003 / PHARE CES 2003 PROJECTS PORTFOLIO
LOT 1
Asistenta tehnica pentru pregatirea unor lucrari de reabilitare si poduri de cale ferata / Technical assistance for preparing rehabilitation works required by railway tunnels and bridges

Denumirea obiect / Drawing Title: Normele NCP / Railway design rules; Linia cf / Railway line 511 Ilva Mica -> Floresti

Cod desen / Drawing Code: PT 234

Nr. / No: 05

ARMARE TRONSON MARGINAL, AMONTE, L=7.20m/ REINFORCEMENT MARGINAL SECTION, UPSTREAM, L=7.20m

Format Size: 594x1189