PLAN COFRAJ
FORMWORK PLAN
Sc 1:50

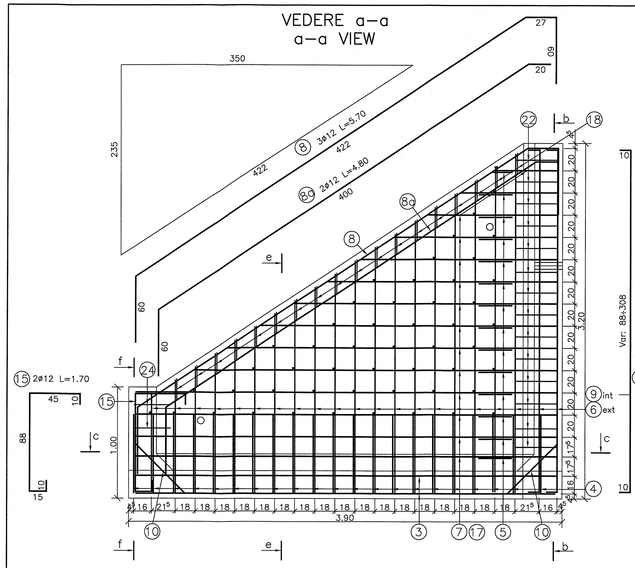
BETON C35/45
OTEL PC60
ACOPERIRE 4cm

CONCRETE C35/45
PC60 STEEL
COVERING 4cm

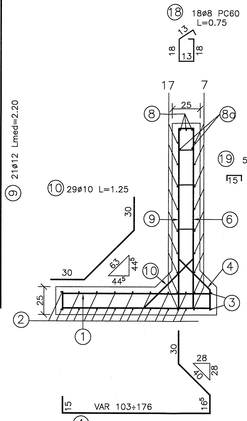
CARACTERISTICILE BETONULUI

C 35/45, expunere XC4+XF3+XA1 (RO), Cl 0.2, agregate D_{max} 22, densitate D 2.5, consistenta S3
C 35/45, exposure XC4+XF3+XA1 (RO), Cl 0.2, aggregate D_{max} 22, density D 2.5, consistency S3

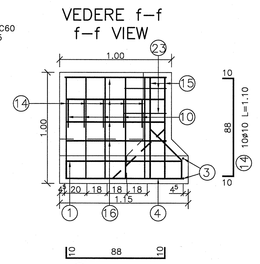
VEDERE a–a
a–a VIEW



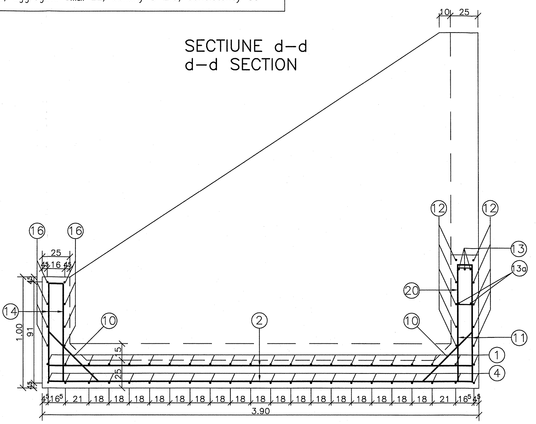
SECTIUNE e–e
e–e SECTION



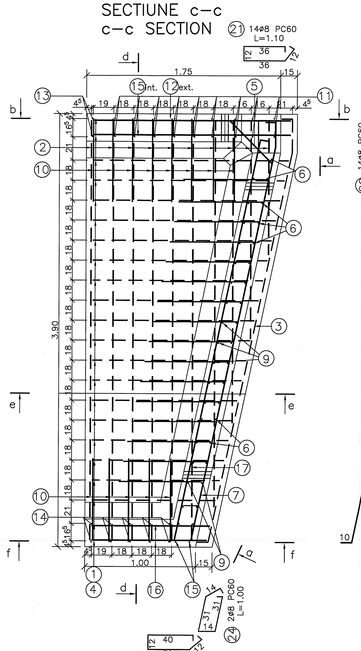
VEDERE f–f
f–f VIEW

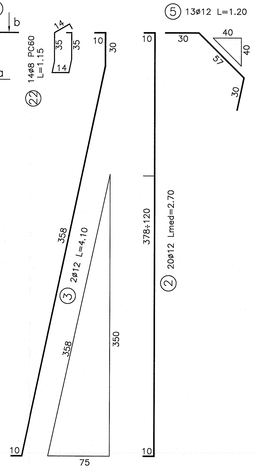


SECTIUNE d–d
d–d SECTION

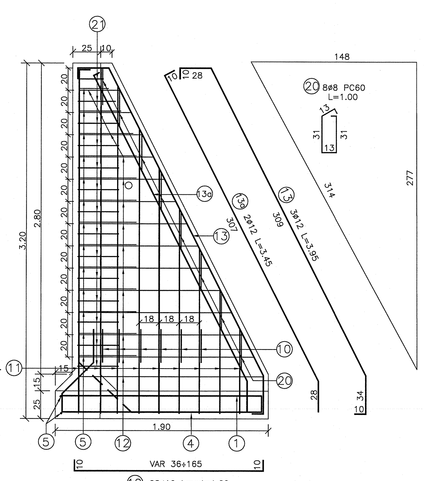


SECTIUNE c–c
c–c SECTION



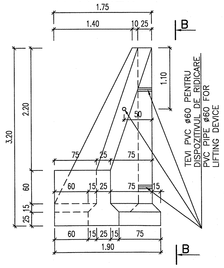


VEDERE b–b
b–b VIEW

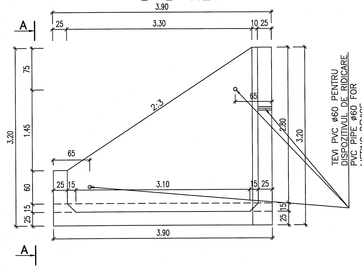


PLAN COFRAJ
FORMWORK PLAN
Sc 1:50

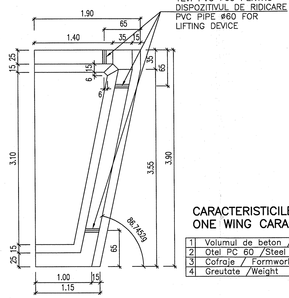
VEDERE A–A
A–A VIEW



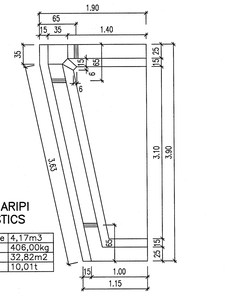
VEDERE B–B
B–B VIEW



PLAN ARIPA A3 STANGA
LEFT WING A3 PLAN



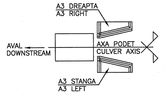
PLAN ARIPA A3 DREAPTA
RIGHT WING A3 PLAN



CARACTERISTICILE UNEI ARIPI
ONE WING CARACHTERISTICS

1	Volumul de beton /V concrete	4,17m3
2	Otel PC 60 /Steel PC60	406,00kg
3	Cofraje / Formwork	32,82m2
4	Greutate /Weight	10,01t

FIGURA 1
FIGURE 1



EXTRAS ARMATURA pentru aripa tip A3EN

Marca	Diametrul	Nr. bare asemenea	Lungime a unei	TIP DE OTEL PC60 ϕ 12	ϕ 10	ϕ 8
1	10	22	1.70	-	37.4	-
2	12	20	2.70	54.0	-	-
3	12	2	4.10	8.2	-	-
4	12	22	2.40	52.8	-	-
5	12	13	1.20	15.6	-	-
6	10	21	2.20	-	46.2	-
7	10	16	2.40	-	38.4	-
8	12	3	5.70	17.1	-	-
8a	12	2	4.80	9.6	-	-
9	12	21	2.20	46.2	-	-
10	10	29	1.25	-	36.3	-
11	10	18	2.10	-	37.8	-
12	10	28	1.20	-	33.6	-
13	12	3	3.90	11.7	-	-
13a	12	2	3.55	7.1	-	-
14	10	10	1.10	-	11.0	-
15	12	2	1.70	3.4	-	-
16	10	10	1.10	-	11.0	-
17	10	16	2.25	-	36.0	-
18	8	18	0.75	-	-	13.5
19	8	50	0.25	-	-	12.5
20	8	8	1.00	-	-	8.0
21	8	14	1.10	-	-	15.4
22	8	14	1.15	-	-	16.1
23	8	2	1.15	-	-	2.3
24	8	2	1.00	-	-	2.0
Lungime totala pe diametre (m)				225.7	287.7	69.8
Masa pe metru (kg/m)				0.888	0.617	0.395
Masa pe diametre (kg)				200.4	177.5	27.6
Masa totala pe tip de otel (kg)					406	

ATENTIUNE !
–Prezentul plan contine planul de cofraj pentru aripa A3 stanga;
–Pentru perechea ei din dreapta se vor pastra aceleasi dimensiuni, cofrajul fiind orientat invers (vazut in oglinda);
–A se vedea in schita din fig 1.

NOTA:
1 –Aripa prefabricata se va confectiona din beton clasa C35/45 si otel PC60;
2 –Dupa decofrare, fetele interioare ale peretilor si fata superioara a placii de baza se vopsesc cu suspensie de bitum fierbzut in dublu strat;
3 –Pentru manevrarea prefabricatului se vor lasa orificii amplasate conform planului. Dupa montarea definitiva in amplasament a tronsoanelor, se vor umple cu mortar.
4 –Aripile prefabricate se vor amplasa pe blocurile de fundatie monolite prin intermediul unui strat de mortar de ciment care va fi alcatuit din:
–un strat de nivelare de 2cm
–un strat de 1 cm de fixare pe blocul monolit
Inaintea aplicarii mortarului, suprafata blocului se va curata bine de toate impuritatile;
5 –La executie se vor respecta cu strictete prevederile din prescriptia tehnica NE 013–99 "Cod de practica pentru executia elementelor prefabricate din beton, beton armat si beton precomprimat" si din Caietul de Sarcini.
6 –Compactarea pamantului de umplutura in interiorul aripilor se face cu placa vibratoare.

ATENTION !
–This drawing represents the formwork plan for the left A3 wing;
–For the right A3 wing, there will be maintained the same dimensions but the formwork will be placed in mirror;
–To be seen the figure no. 1.

NOTE:
1 –The prefabricated wing will be executed of concrete class C35/45 and PC 60 steel;
2 –After removing the formwork, the interior sides of the walls and the upper side of the bottom plate are painted with filler bitumen suspension in double layers;
3 –To operate the prefabricated element will be provided holes located acc. to plan. After the definitive mounting of the section ii location, the holes will be filled with mortar.
4 –The prefabricated wings will be placed on the monolith foundation blocks by a cement mortar layer composed by :
–a levelling layer of 2 cm. thickness
–a layer of 1 cm. to fix on the monolith block.
Before mortar laying, the foundation block surface will be well cleaned by all the impurities.
5 –During work construction there will be strictly applied the provisions of the technical prescription NE 013–99 "Practice code for the precast elements execution, reinforced and prestressed concrete" and Technical Specifications of this project.
6 –Compaction of filling earth from inside the wings is done with vibrating plate.

NOTA / NOTE

Acest plan este valabil pentru zone seismice cu acceleratie orizontala de varf $a_g \leq 0,16g$.
This plan applies to seismic zones with top horizontal acceleration $a_g \leq 0,16g$.

B				
A				
	Data Date	Modificare Modification / Revision		

BENEFICIAR / BENEFICIARY: AUTORITATEA DE IMPLEMENTARE / IMPLEMENTING AUTHORITY
ROMANIAN RAILWAY NATIONAL COMPANY

AUTORITATEA CONTRACTANTA / CONTRACTING AUTHORITY
Ministerul Economiei si Finantelor Oficiul de Plati si Contractare Phare
Ministry of Economy and Finance Phare Payments &Contracting Office
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POS Transport 2007- 2013

CFCL Contract / Contract 20030200

Faza / Phase PTAD / PTAD

Nr. / No. 1M+200

prointec CONSIS PROIECT

Intocmit / Designed	Ing. Cristina Vara-Oros	Scara / Scale :	1:20
Verificat / Checked	Ing.Viorel ALDESCU		1:10
Sef echipa / Team leader	Ing. Stelian Vara-Oros	Data / Date :	05.2009

PORTOFOLIU DE PROIECTE PHARE CES 2005 / PHARE CES 2005 PROJECTS PORTFOLIO 1071 1
Asistenta tehnica pentru pregatirea unor lucrari de reabilitare pentru tunelul si podurit de cale ferata
Technical assistance for preparing rehabilitation works required by railway tunnels and bridges
Denumire desen / Drawing Title : Reabilitare ROF (Railway Operation Facility) Linia cf Railway line Oarmasesti-Dornbirsesti
PLAN COFRAJ SI ARMARE ARIPA TIP A3EN
SHUTTERING PLAN REINFORCEMENT WING A3EN TYPE

Cod desen / Drawing Code: PT 23

Nr. / No. 17

1150x700