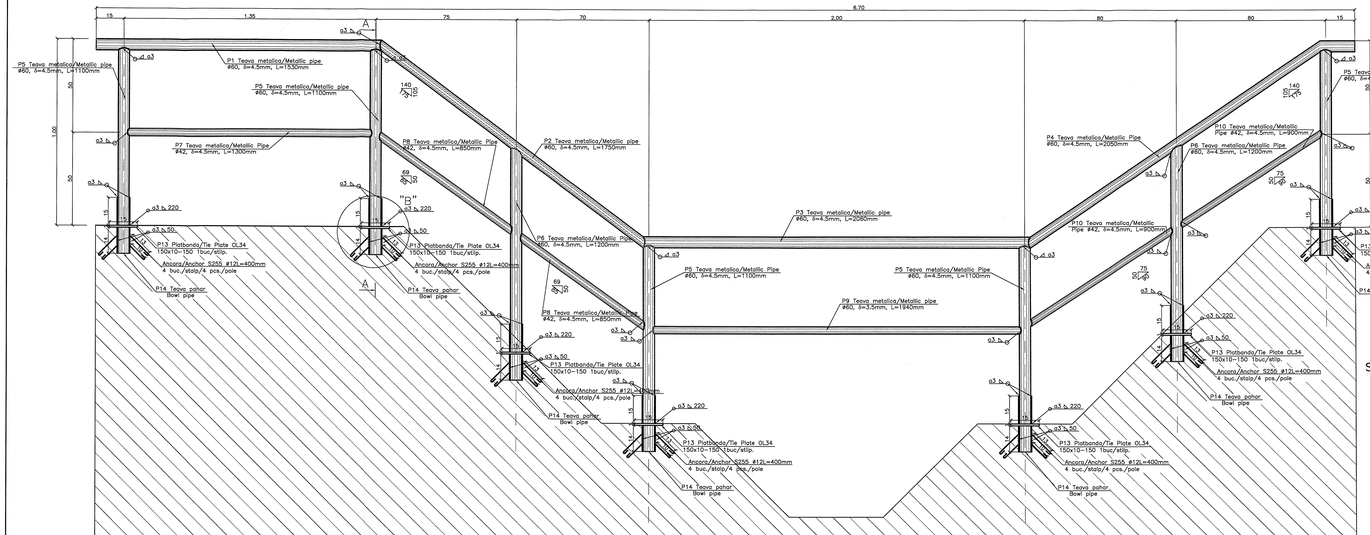
DETALIU PENTRU FIXAREA PARAPETULUI IN ZIDURILE DE RACORDARE 1 SI 2
FIXING THE HAND RAIL POLE IN THE CONNECTION WALLS 1 AND 2



NOTA:
1. Stalpii se sudeaza la minim 7zile de la fixarea placutei in beton.
2. Dupa sudarea stalpilor pe placute, acestea se vor acoperi cu mortar de ciment.
3. Pe toate piesele metalice se va aplica o protectie anticoroziva. Tehnologia de aplicare va respecta Ordinul MLPAT nr. 52/N/1998 "Ghid de proiectare, executie si exploatare privind protectia impotriva coroziunii a constructiilor metalice."
4. Stalpii metalici se fixeaza la pozitie prin bare sudate la carcasa de armatura a betonului

NOTE:
1. The poles shall be welded at minimum 7 days after fixing the plate into the concrete.
2. After welding the poles on the plates, all these shall be cover with cement mortar.
3. Will be applied anti-corosive protection on all metallic pieces. The technology for applying anti-corosive protection will respect the Order MLPAT no. 52/N/1998 "Guide for provision, execution and exploitation concerning the protection against corrosion for the buildings made of steel."
4. The metallic poles are fixed in position through bars welded to the reinforcement framing of the concrete.

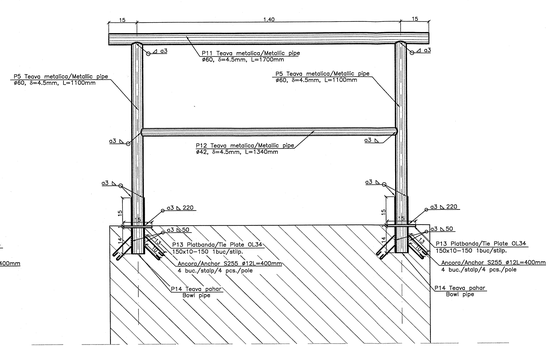
Sistemul de protectie anticoroziv se compune din 3 straturi, conform Codului de Sarsini:
– stratul primar sau grundul (min. 50µm)
– stratul intermediar (min. 50µm)
– stratul de finisare (min. 75µm).

The protection system is composed by 3 layers, in according to the Technical Specifications:
– primary layer or the flat coat (min. 50µm)
– intermediary layer (min. 50µm)
– finishing layer (min. 75µm).

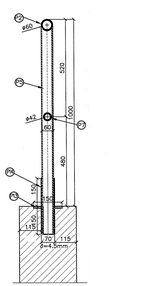
Ancorele cu placutele metalice se monteaza inainte de turnarea betonului.

The achors with the metallic plate have to be mounted before casting the concrete.

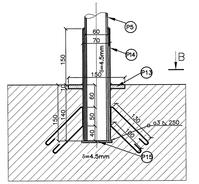
DETALIU PENTRU FIXAREA PARAPETULUI IN ZIDURILE DE RACORDARE 3 SI 4
FIXING THE HAND RAIL POLE IN THE CONNECTION WALLS 3 AND 4



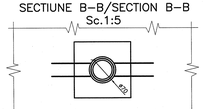
SECTIUNE A–A/SECTION A–A
Sc.1:10

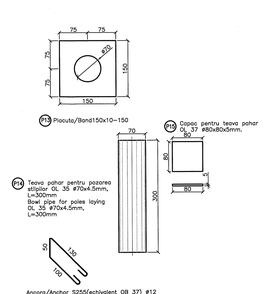


Detaliu B/B Detail
Sc.1:5



SECTIUNE B–B/SECTION B–B
Sc.1:5





MASURATOARE MATERIAL METALIC/ MEASUREMENT OF METALLIC MATERIAL
(pentru fixarea parapetului in zidurile de racordare 1 si2)

Pozitia/ Position	Denumire/ Denomination	Nr. Buc./ Pcs. Nr.	Dimensiuni/ Dimension (mm)	Lungime/Length(m)	Masa/Weight			Greutate tip otel / Weight for type of steel (KG)	
					OL 35		OL 37-3K		
					Kg/m	Kg/buc	Kg/buc	OL 35	OL 37-3K
P1	Teava metalica/Metallic pipe	2	Ø60x4.5	1.53	6.16	9.42		18.85	
P2	Teava metalica/Metallic pipe	2	Ø60x4.5	1.75	6.16	10.78		21.56	
P3	Teava metalica/Metallic pipe	2	Ø60x4.5	2.08	6.16	12.89		25.38	
P4	Teava metalica/Metallic pipe	2	Ø60x4.5	2.05	6.16	12.63		25.26	
P5	Teava metalica/Metallic pipe	10	Ø60x4.5	1.10	6.16	6.78		67.76	
P6	Teava metalica/Metallic pipe	4	Ø60x4.5	1.20	6.16	7.39		29.57	
P7	Teava metalica/Metallic pipe	2	Ø42x4.5	1.30	4.16	5.41		10.82	
P8	Teava metalica/Metallic pipe	4	Ø42x4.5	0.85	4.16	3.54		14.14	
P9	Teava metalica/Metallic pipe	2	Ø42x4.5	1.94	4.16	8.07		16.14	
P10	Teava metalica/Metallic pipe	4	Ø42x4.5	0.90	4.16	3.74		14.98	
P13	Platbanda/Tie plate	14	150x10	0.15			1.77		24.73
P14	Teava metalica/Metallic pipe	14	Ø70x4.5	0.30	7.27	2.18		30.53	
P15	Capac teava pahar	14	80x5	0.08			0.25		3.52
Total fara sudura/ Total without weld [kg]								244.45	28.24
Sudura/ Weld [kg]								7.33	0.85
Total laminate[kg]								255	30.00

MASURATOARE MATERIAL METALIC/ MEASUREMENT OF METALLIC MATERIAL
(pentru fixarea parapetului in zidurile de racordare 3 si 4)

Pozitia/ Position		Nr. Buc./ Pcs. Nr.	Dimensiuni/ Dimension (mm)	Lungime/Length(m)	Masa/Weight			Greutate tip otel / Weight for type of steel (KG)	
					OL 35		OL 37-3K		
					Kg/m	Kg/buc	Kg/buc	OL 35	OL 37-3K
P5	Teava metalica/Metallic pipe	4	Ø60x4.5	1.11	6.16	6.64		27.35	
P11	Teava metalica/Metallic pipe	2	Ø60x4.5	1.70	6.16	10.47		20.94	
P12	Teava metalica/Metallic pipe	2	Ø42x4.5	1.34	4.16	5.57		11.15	
P13	Platbanda/Tie plate	4	150x10	0.15			1.77		7.07
P14	Teava metalica/Metallic pipe	4	Ø70x4.5	0.30	7.27	2.18		8.72	
P15	Capac teava pahar	4	80x5	0.08			0.25		1.00
Total fara sudura/ Total without weld [kg]								68.17	7.07
Sudura/ Weld [kg]								2.05	0.21
Total laminate ptr un subansamblu[kg]								75	10.00
Total laminate ptr 2 subansamble[kg]								150.00	20.00

EXTRAS DE ARMATURA

Marca	Φ (mm)	Nr. barelor asemenea		Lungimi	Lungimi in metri pe diametre
		Buc. asemenea	Masa		OB37
					Φ12
Ancore parapet					
1	12	56		0.45	25.2
Total lungimi pe diametre (m)					25.20
Masa pe metru (kg)					0.888
Masa pe diametru (kg)					22
Masa totala pe tipuri de otel (kg)					22

B					
A					
	Data / Date	Modificare / Modification / Revision			

BENEFICIARY/ BENEFICIAR: AUTORITATEA DE IMPLEMENTARE/ IMPLEMENTING AUTHORITY
COMPANIA NATIONALA DE CAI FERATE/ ROMANIAN RAILWAY NATIONAL COMPANY

AUTORITATEA CONTRACTANTA/ CONTRACTING AUTHORITY
Ministerul Economiei si Finantelor Oficiul de Plati si Contractare Phare / Ministry of Economy and Finances Phare Payments &Contracting Office
Ministerul Transporturilor / Ministry of Transports
UNIUNEA EUROPEANA/ EUROPEAN UNION
Proiect finanțat de/ Project financed by EUROPEAN UNION
POS Transport 2007-2013

Contract/ Contract: CFCU/ 2003/0007
Faza/ Phase: PT+DE
Ediția/ Issue: 1

prointec / COWI PROIECT

PORTOFOLIUL DE PROIECTE PHARE 2003-2006 / PHARE 2006-2009 PROJECTS PORTFOLIO
LOT 1

Intocmit/ Designed	Ing. Cristina Vara-Oros		Scara / Scale:	1:50;1:5
Verificat/ Checked	Ing.Viorel ALDESCU			
Tel/ e-fax:			Data / Date:	05.2009
Team leader:	Ing. Stelian Vara-Oros			

Proiectul/ Project: Ameliorarea lucrărilor de artă pe linia ferată Bucureşti- Ploieşti Nord/ Railway doing/ 200 Linii Kilometrice
Obiectul/ Object: PARAPET METALIC PE ZIDURI RACORDARE METALLIC RAILING ON CONNECTION WALLS
Nr. / No: 14
Planșa/ Drawing: PT 23

Antetul lucrării pentru proiectare și/sau execuție în conformitate cu cerințele legislației naționale în vigoare
Technical assistance for preparing/ undertaking works required by national laws and bridges