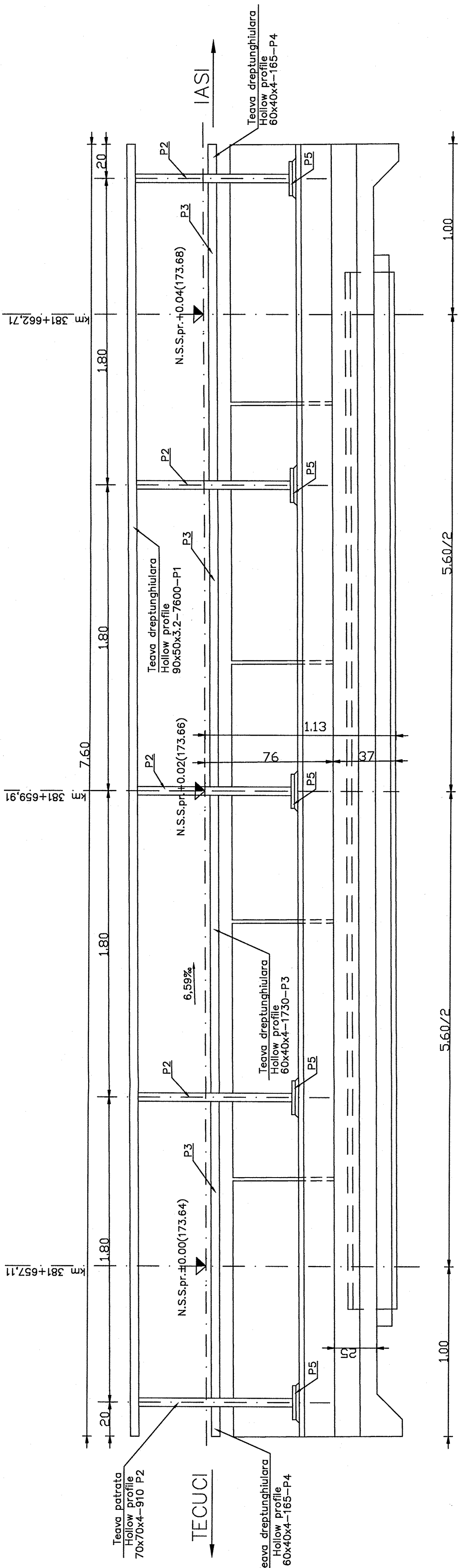


ELEVATIE / ELEVATION

Sc. 1:20



PROTECTIA ANTICOROZIVA

Proteția anticorozivă a parapetului metalic se va face prin galvanizare hot galvanization with zinc layer thickness min. 85µm, and two polyurethane layers, each of 80µm thickness. The first layer is applied in the factory and the second layer is applied on site, after placing in the final position.

Preparing the metallic surfaces in order to apply the dorrison-proof procedures shall be made by:

- Rust removal using wire brushes.
- Washing the metallic surfaces.
- Organic solvent degreasing by wiping or using emulsions.
- After degreasing, the surface is washed by water jet to eliminate the detergent stains. The solution selected for degreasing shall not affect the environment.
- Cleaning the surfaces by sanding is not profitable, the surface being smaller 20m².

The cleaning is made according to the SA 2 1/2 degree.

PROTECTED AGAINST CORROSION

The metallic parapet will be protected against corrosion by deep hot galvanization with zinc layer thickness min. 85µm, and two polyurethane layers, each of 80µm thickness. The first layer is applied in the factory and the second layer is applied on site, after placing in the final position.

Preparing the metallic surfaces in order to apply the dorrison-proof procedures shall be made by:

- Rust removal using wire brushes.
- Washing the metallic surfaces.
- Organic solvent degreasing by wiping or using emulsions.
- After degreasing, the surface is washed by water jet to eliminate the detergent stains. The solution selected for degreasing shall not affect the environment.
- Cleaning the surfaces by sanding is not profitable, the surface being smaller 20m².

The cleaning is made according to the SA 2 1/2 degree.

NOTA/NOTE

- Dimensionarea cablului de cupru si a barelor de impamantare vor fi facute de specialisti autorizati in protectie electrica.
- Antreprenorul va comunica producatorul de la care aprovizionaza elementele de protectie in vederea definitivarii detaliilor de impamantare.

1. The dimensioning of the copper cable and the earthing bars shall be made by authorized specialists for electric protection.

2. The contractor shall name the producer supplying the protection elements in order to finalize the earthing details.

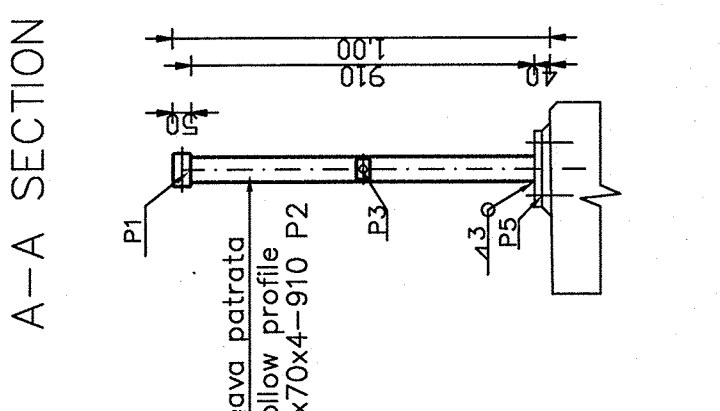
MONTAREA PARAPETULUI

- se traseaza, pe betonul intarit pozitia suruburilor;
- se executa orificiile Ø17 mm cu utilaje rotopercutante;
- se fixeaza suruburile in orificii cu mortar si se insurubeaza piulițele de ajustare;
- se pozitioneaza placile de baza, la cota proiectata. Eventualele deplanari si abateri de la cotele prevazute in proiect se corecteaza din piulițele de ajustare;
- se toarna mortarul sub placile de baza ale parapetului;
- dupa intarirea mortarului se strang piulițele M16 de la partea superioara a placilor de baza;
- se trece la montarea parapetului.

PARAPET MOUNTING

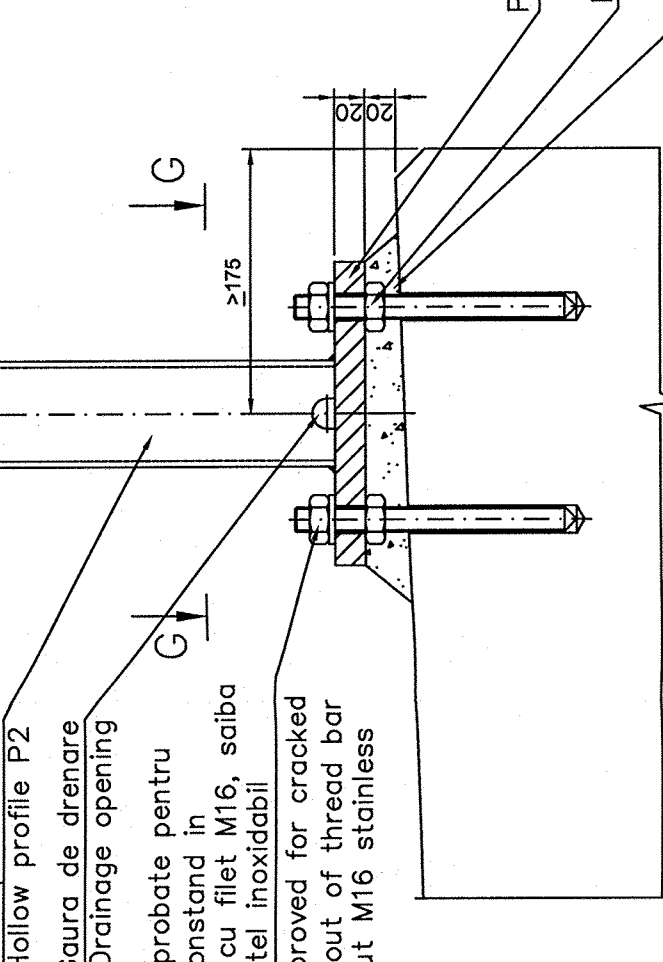
- tracing the screws positions on the hardened concrete;
- drilling the Ø17 mm holes with rotary-striking devices;
- fixing the screws in the holes and tightening them with the adjusting nuts;
- positioning the baseplates at the designed level. Any possible displacement and deviations from the levels provided in the project shall be corrected with the adjusting nuts;
- casting the mortar under the baseplates of the parapet;
- when the mortar is hardened, the M16 nuts shall be tightened at the upper part of the baseplates;
- now the parapet shall be mounted.

SECTIUNE A-A

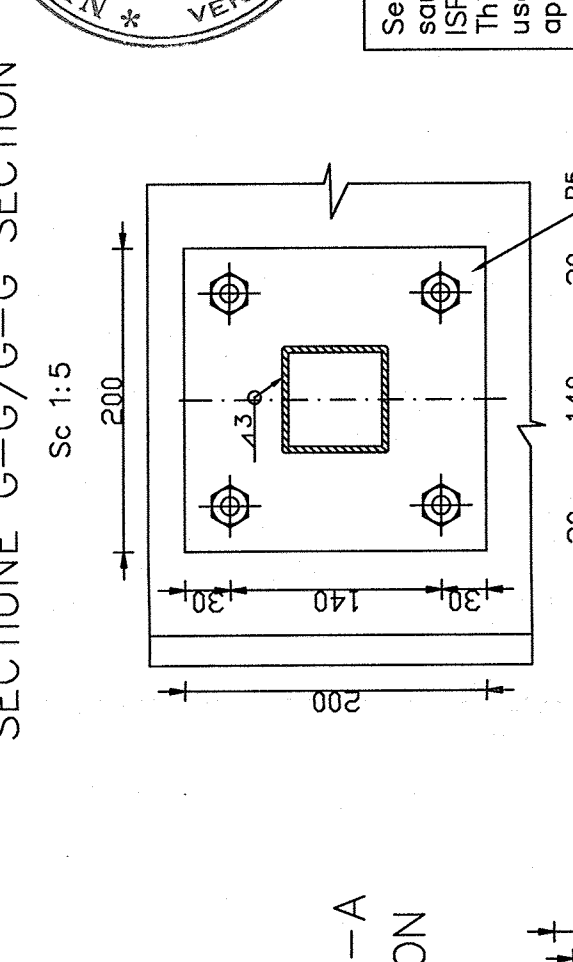


DETALIU DE PRINDERE A PARAPETULUI

DETAIL HANDRAIL FASTENING



SECTIUNE G-G/G-G SECTION



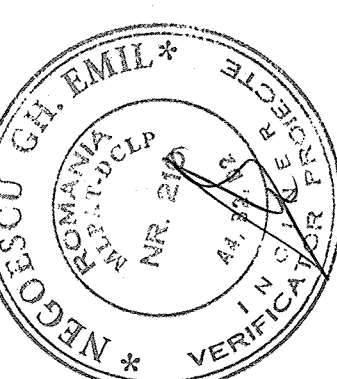
NOTA

- Prezentul plan a fost intocmit pe baza:
 - Dispozitiile generale 22PP04DDE001
 - La executie se va respecta cu strictete normativul NE 012-1999, iar pentru verificarea calitatii lucrarilor, receptionarea lor se va face conform normativului C56-1985.

NOTE

- This plan was drawn up based on the
 - General Disposition 22PP04DDE001
 - During the execution there will be strictly complied with Norm NE 012-1999, works quality checking and their acceptance are to be done according to Norm C56-1985.

Placa de baza 200x20-200 P5
 Baseplate 200x20-200 P5
 Piulița de ajustare
 Adjusting nut
 Mortar de ciment- sau mortar epoxidic
 Cement - or Epoxymortar



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B		A	
BENEFICIAR/BENEFICIARY: ROMANIAN RAILWAY NATIONAL COMPANY Modificator / Revision: IMPLIMENTING AUTHORITY Date: Ministry of Transport Date: Ministry of Transport			
Contract / Contract: 19302007 AUTORITATEA CONTRACTANT/ CONTRACTING AUTHORITY: OFO		Ministerul Economiei si Finantelor Ministry of Economy and Finance Project financed by UNUNEA EUROPEANA Project financed by EUROPEAN UNION	
Feza / Phase: P7H+DE		POS Transport 2007-2013	
PORTOFOLIUL DE PROIECTE PHARE CES 2005 / PHARE CES 2005 PROJECTS PORTFOLIO LOT 1			
Asistența tehnică pentru pregătirea unor lucrări de reabilitare pentru tuneluri și poduri de cale ferată Technical assistance for preparing rehabilitation works required by railway tunnels and bridges			
Intocmit / Designed: th. M. Iliescu Verificat / Checked: Ing. M. Saracin Sef echipa / Team leader: Ing. Ioan Dachin		Scara / Scale: 1:20 Data / Date: 05.2009	
Denumire / Drawing Name: Poduri / Culvert km 381+660 Sursa / RCF: Poduri / Culvert km 381+660		Nr. / No: P1215 Drawing Code: P1215	

MASURATOAREA MATERIALULUI METALIC NECESAR PENTRU PARAPETUL DE PE O PARTE A PODULUI

MEASUREMENT FOR THE METALLIC MATERIAL REQUIRED FOR THE FOOT PATH ON A SIDE OF THE BRIDGE

Poz.	Denumire	Dimensiuni	Nr. buc. asemenene	Greutate S235 kg/buc.	Total(kg)
P1	Teava dreptunghiulara Hollow profile	90x50x3.2-7600	1	51.00	51.00
P2	Teava patrata Hollow profile	70x70x4-910	5	7.54	38.00
P3	Teava dreptunghiulara Hollow profile	60x40x4-1730	4	10.00	40.00
P4	Teava dreptunghiulara Hollow profile	60x40x4-165	2	1.00	2.00
P5	Placa de baza Baseplate	200x20-200	5	6.28	32.00
	Suruburi M16 Bolts M16	Ø16-130	20	0.231	5.00
	Piulițe M16 Nuts M16	-	40	0.031	2.00
	Scabe Washers	-	20	0.011	1.00
				Total partial	171.00
				Spor 3% pt. sudura	6.00
				Total pt. tbuc. culcie	177.00
				2x177.00=354.00Kg	
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