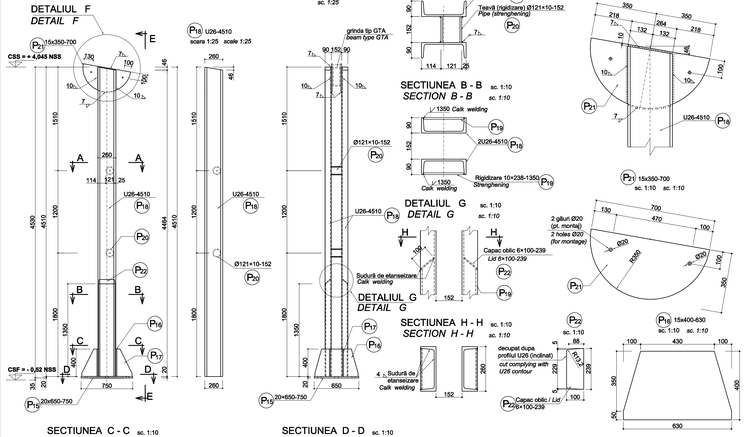
STALP TIP SA
POLE TYPE SA

scara 1:25
scale 1:25



P15 20x650-750 PLACA DE BAZA sc. 1:10 *BASE PLATE sc. 1:10*

NOTA:

1. Stalpii tip SA vor avea acelasi nivel la partea superioara (CSS), masurat fata de NSS al liniei adiacente . Pentru reglarea de precizie pe verticala a nivelului este prevazut un strat de mortar de subturnare ~3,5 cm ; grosime ca poate varia intre 3 = 9 cm.
2. Acest plan se va citi corelat cu celelalte planuri ale copertinei din statia STUPINI si planurile corespondente de instalatii, electrice si telecomunicatii.
3. Se recomanda asamblarea de proba in uzina a grinzii transversale cu stalpul (buloane M18) inaintea livrarii.
4. Buloanele M18 folosesc la montaj doar pentru tinerea la pozitia corecta a grinzii transversale in furca stalpului; dupa care se realizeaza sudura de rezistenta - pe santier - pe toate muchiile de contact dintre P21 si grinda transversala tip GTA.
5. Stalpii se vor inchide etans fata de patrunderea apei prin realizarea corecta si completa a sudurilor (care au si rol de etansare).
6. Confectiile metalice vor respecta conditiile de executie, montare si receptie precizate in Caietul de sarcini al lucrarii.
7. Protectia confectiilor metalice se realizeaza in sistem MC MIOZINC / MIOMASTIC / LUSTER conform Caietului de Sarcini si a specificatiilor tehnice ale producatorului.
8. Recomandam ca toate cele 3 straturi de protectie sa fi aplicate in uzina, (dupa asamblarea elementelor structurale se pot face pe santier doar mici corectii la stratul final).
9. Acolo unde ansamblarea (conf. planului) se face pe santier, prin sudura, după realizarea ansamblului se va reface protectia anticorozivă deteriorată
10. Pentru alinierea stâlpilor, găurile din placile de bază ale stâlpilor permit translatii in plan orizontal de ±10mm. fata de axa buloanelor de ancorare.
11. Pentru transportul elementelor finite (stalpi), acestia se vor ambala in hartie ceratа si se vor aseza pe suporti de lemn adecvati. Materialul marunt (suruburi, saibe, piulite, etc.) se va transporta in cutii de lemn.

NOTE:

1. The SA type poles shall have the same upper level (CSS) measured from NSS of the adjacent line. To make an accurate level adjustement at the upper part, an under-casting mortar layer of ~3,5 cm was provided, which may vary 3=9 cm thick.
2. This plan shall be read in correlation with the other structural drawings of the canopy of STUPINI station, and the afferent drawings for sanitary, electrical and telecommunications installations of the canopy.
3. An assembly test in the factory (with M18 blots) is recommended for the transversal beam with the pole before delivery.
4. The M18 bolts are used during mounting to keep the cross beam in the correct position on the pole fork, then the resistance welding on the entire contact edges between P21 and the transversal beam type GTA shall be executed on site.
5. The poles shall be sealed to avoid the water penetration by correct and complete calk welding.
6. The steel elements shall comply with the manufacturing, mounting and reception conditions, stipulated in the "Technical Specifications for the Work".
7. The steel elements are protected by using MC MIOZINC/ MIOMASTIC/ LUSTER system as described in "Technical Specifications for the Work" and in the Manufacturer's Technical Specifications.
8. All 3 protection layers shall be applied in the plant. (after assembling only small corections of the final layer can be made on site).
9. When the assembly is done on site (according to drawing) by welding, after final assembling, the damaged corrosion protection will be restored.
10. In order to place the poles on the same line, the holes in the base plates of the poles will allow displacements in the horizontal plan of ±10mm from the axis of the anchoring bolts.
11. Regarding the transport conditions, the elements (poles), will be packed in waxed paper and will be placed on adequate wood supports. The small pieces (screws, washers, nuts, etc.) will be transported in wood boxes.

EXTRAS DE LAMINATE : STALP TIP SA - pentru 1buc.
LAMINATED ELEMENTS TABLE : POLE TYPE SA - 1pcs.

Pozitia *Position*	Denumirea *Denomination*	Dimensiuni *Dimensions (mm)*	Lungime *length (m.m.)*	Bucati *Pieces*	Greutate kg *Weight* */ml /m*	*/ buc /pieces*	TOTAL
P15	Placă de bază *Base plate*	20x650-	750	1	102.05	76.54	76,54
P16	Guseu *Connection plate*	15x400-	630	2	47.10	29,66	59,36
P17	Guseu *Connection plate*	15x225-	400	4	26.50	10.60	42,40
P18	Stâlp *Pole*	U26-	4510	2	37.90	170.93	341,86
P19	Rigidizare *Strengthening*	10x238-	1350	2	18.69	25,24	50,48
P20	Teavă (rigidizare) *Pipe (strengthening)*	Ø121x10-	152	2	27.37	4.16	8,32
P21	Placă de asamblare *Assembly plate*	15x350-	700	2	-	22.66	45,32
P22	Capac oblic *Lid*	6x100-	239	2	4.71	1.13	2,26
	TOTAL LAMINATE *TOTAL LAMINATED ELEMENTS*						626,54
	ELECTROZI + GRUND 3% *ELECTRODES + WELDING 3%*						18,46
	TOTAL kg. / 1buc. ***TOTAL kg. / 1pcs.***						645,00

CENTRALIZATOR CONFECTII METALICE:
STALP TIP SA / STATIE
SUMMARY TABLE FOR METALLIC ELEMENTS : POLE TYPE SA / STATION

statia *station*	greutate : kg / buc. *weight : kg /pcs*	nr. bucati / statie *no. pieces / station*	TOTAL Kg. *TOTAL Kg.*
STUPINI	645,00	2	1290,00
TOTAL GENERAL: *TOTAL :*	STALP TIP SA *POLE TYPE SA*		1290,00

MATERIALE
Laminate : S275J2G3 (OL44.3n)
Suruburi M18 grupa 5.6 (montaj)

MATERIALS
Laminated : S275J2G3 (OL44.3n)
Bolts M18 group 5.6 (montage)

SUDURI
Acolo unde nu exista alte precizari , sudurile se vor realiza cu **grosimea cordonului de sudura a = 0,7 t min** (unde t min = cea mai mica grosime a pieselor care se sudeaza)

WELDING
*If there are no other specifications, the welding will have **the welding seam a = 0,7 t min** (where t min = the smallest thickness of pieces to be welded).*

LEGENDA
N.S.S. = cota nivel superior sina proiectat
C.S.F. = cota superioara fundatie
C.F. = cota de fundare
C.S.S. = cota superioara stalp

LEGEND
R.U.L. = designed rail upper level (N.S.S)
C.S.F. = foundation upper level
C.F. = foundation level
C.S.S. = pole upper level

Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A					

GUVERNUL ROMANIEI ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ EUROPEAN UNION FINANCED PROJECT

C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT

ITALFERR GRUPPO FERROVIE DELLO STATO *Joint Venture leader* · Scott Wilson · OBERMEYER PLANEN + BERATEN GmbH · TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Sef proiect Project manager	R. Liuzza	12.2011	
Aprobat Approved	Coordonator Sectiune 1 Section 1 Coordinator	C. Gambelli	12.2011	
Verificat Checked	Verificator Verifier	Giuseppe Floravanti	12.2011	

SUBCONTRACTANT / SUBCONTRACTOR AmX

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A.Stanciu - Dinulescu	12.2011	
Întocmit Elaborated	Proiectant Designer	Ing. / eng. Tudor ALMALEH	12.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componentă a coridorului IV Pan European, pentru circulatia trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Brasov - Sighisoara
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

Proiect/Project 2004/RO/16/P/PA/003
Faza / Phase: D.E. / E.D.

Denumire desen / Drawing Title :

COPERTINE - STATIA STUPINI : STALP TIP SA - DETALII DE EXECUTIE
CANOPY - STUPINI STATION : POLE TYPE SA - DETAILS

Codificare / Codification System									Scara / Scale 1:25, 1:10		LOT / LOT		Nr. / No 01 / 01
E	A	5	1	0	1	E	0	3	B	Z	C	C	0	0	2	3	0	0	5	1

3A3 (420x891)=0.37 m²

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