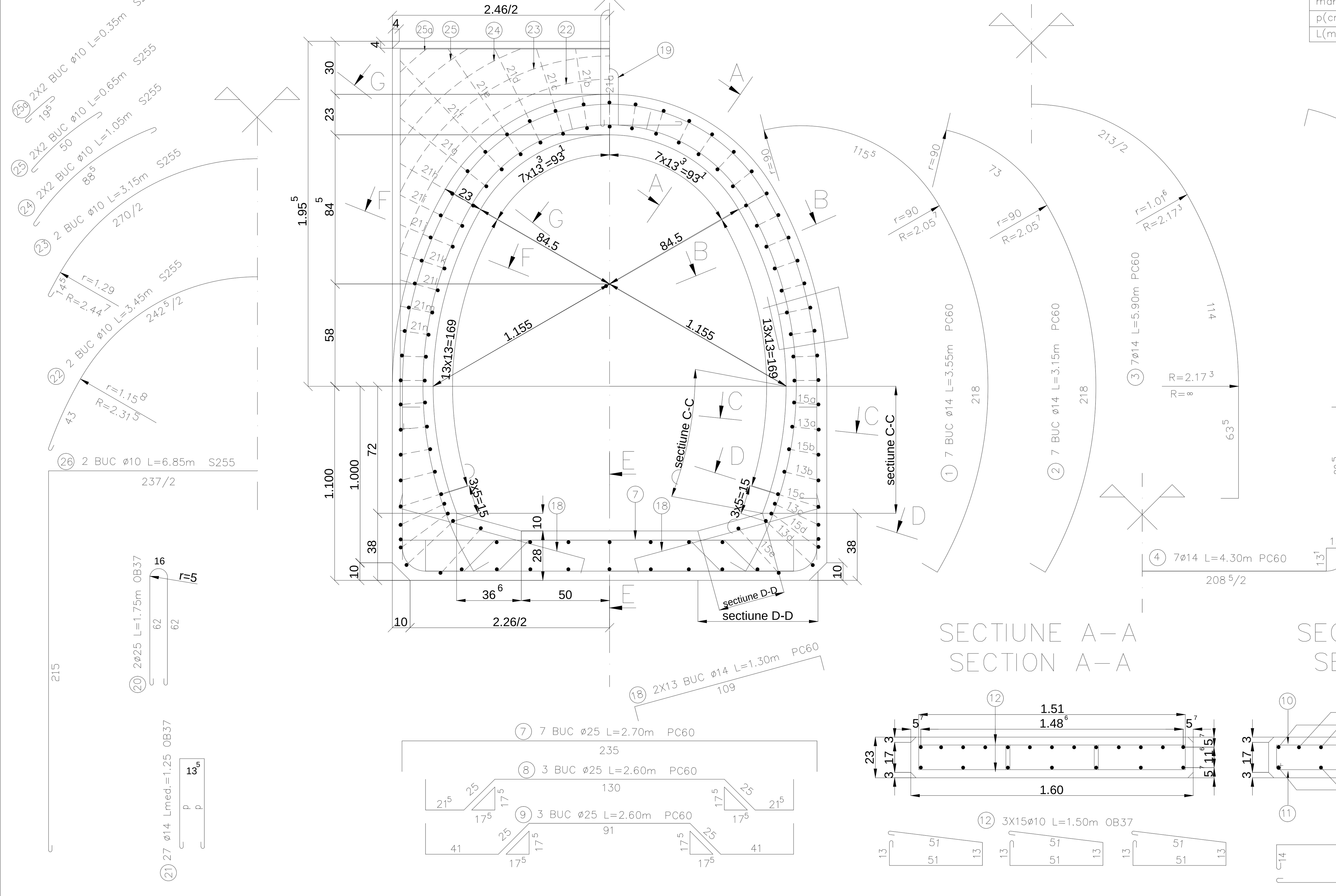
ARMARE TRONSON FINAL
REINFORCEMENT FOR THE FINAL SECTION

ARMARE TRONSON CURENT
REINFORCEMENT FOR THE CURENTE SECTION

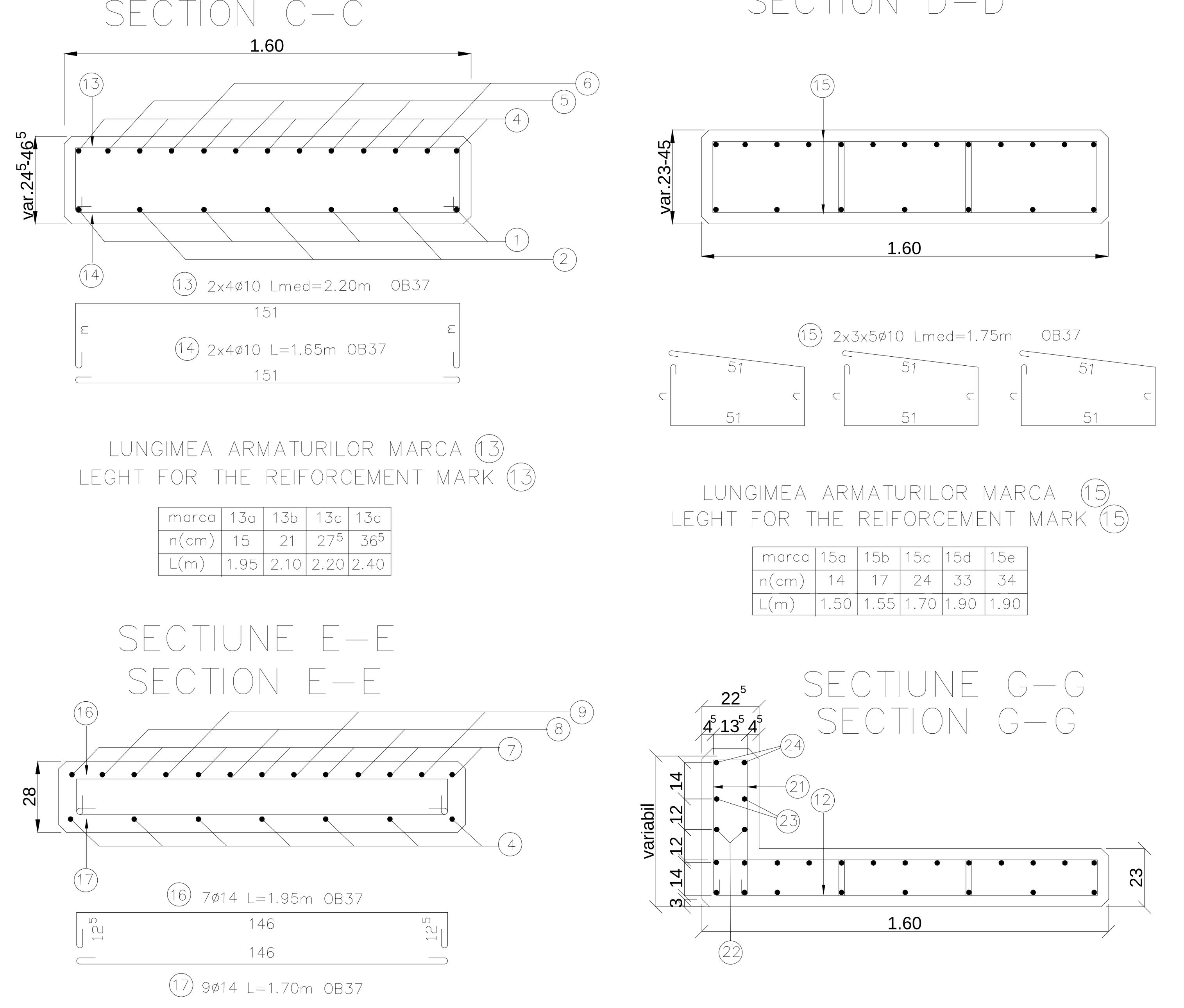


LUNGIMEA ARMATURILOR MARCA (21)
LEGHT FOR THE REIFORCEMENT MARK (21)

marca	21a	21b	21c	21d	21e	21f	21g	21h	21i	21j	21k	21l	21m	21n
p(cm)	44	45	50	59	72^5	84	62	47^5	39	32	26^5	21^5	18^5	16
L(m)	1.25	1.25	1.35	1.55	1.80	2.05	1.60	1.30	1.15	1.00	0.90	0.80	0.75	0.70

SECTIUNE C–C
SECTION C–C

SECTIUNE D–D
SECTION D–D



LUNGIMEA ARMATURILOR MARCA (13)
LEGHT FOR THE REIFORCEMENT MARK (13)

marca	13a	13b	13c	13d
n(cm)	15	21	27^5	36^5
L(m)	1.95	2.10	2.20	2.40

LUNGIMEA ARMATURILOR MARCA (15)
LEGHT FOR THE REIFORCEMENT MARK (15)

marca	15a	15b	15c	15d	15e
n(cm)	14	17	24	33	34
L(m)	1.50	1.55	1.70	1.90	1.90

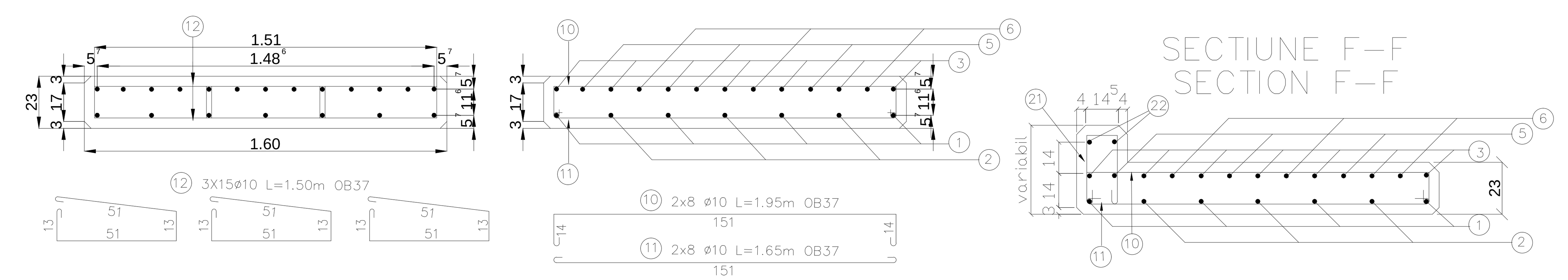
SECTIUNE E–E
SECTION E–E

SECTIUNE G–G
SECTION G–G

SECTIUNE A–A
SECTION A–A

SECTIUNE B–B
SECTION B–B

SECTIUNE F–F
SECTION F–F



CLASA DE DURABILITATE/CLASS DURABILITY: D32/45a(XC3;XF3)
ACOPERIRE/COVERAGE: 4cm S4(XC3;XF3) pentru o durata de viata de 50 ani/for a life duration of 50 years
ARMATURA/REINFORCEMENT – S255; S235; S405
BETON/CONCRETE – C 35/45

LEGENDA BETOANELOR/CONCRETE LEGEND

Beton armat prefabricat in bolta.
Concret for prefabricated in arches.
C35/45–CEM II/A–S32,5–(XC4+XF3+XA1)
A/C=0,50–Dmax22–Cl0,20.

EXTRAS DE ARMATURA PENTRU UN TRONSON CURENT
STANDARD FOR REINFORCEMENT FOR THE ONE CURRENT SECTIONE

Marca Mark	Ø (mm)	Buc. asem. Similar pices	Lung. /buc. Lght /pcs.	Lungimi totale/diametru Total lenght/diameter (m) S255 Ø10	S235 Ø14	S235 Ø25	S405 Ø14	S405 Ø25
1	14	7	3.55				24.85	
2	14	7	3.15				22.05	
3	14	7	5.90				41.30	
4	14	7	4.30				30.10	
5	14	6	3.70				22.20	
6	14	6	5.00				30.00	
7	25	7	2.70					18.90
8	25	3	2.60					7.80
9	25	3	2.60					7.80
10	10	16	1.95	31.20				
11	10	16	1.65	26.40				
12	10	45	1.50	67.50				
13a	10	2	1.95	3.90				
13b	10	2	2.10	4.20				
13c	10	2	2.20	4.40				
13d	10	2	2.40	4.80				
14	10	8	1.65	13.20				
15a	10	6	1.50	9.00				
15b	10	6	1.55	9.30				
15c	10	6	1.70	10.20				
15d	10	6	1.90	11.40				
15e	10	6	1.90	11.40				
16	14	7	1.95		13.65			
17	14	9	1.70		15.30			
18	14	26	1.30				33.80	
19	25	2	1.65			3.30		
20	25	2	1.75			3.50		
Lungimi/diametre Leght/diameter (m)				206.90	28.95	6.80	204.30	34.50
Greutate/metru Weight/meter (kg/m)				0.617	1.208	3.853	1.208	3.853
Greutate/diametre Wight/diameter (kg)				128	35	27	247	133
Greutate/tip de otel Wight/type for steel (kg)				128	62		380	
TOTAL (kg)				570				

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EXTRAS DE ARMATURA SUPLIMENTARA PENTRU TRONSONUL FINAL
STANDARD FOR REINFORCEMENT SUPPLEMENTARY FOR THE ONE FINAL SECTIONE

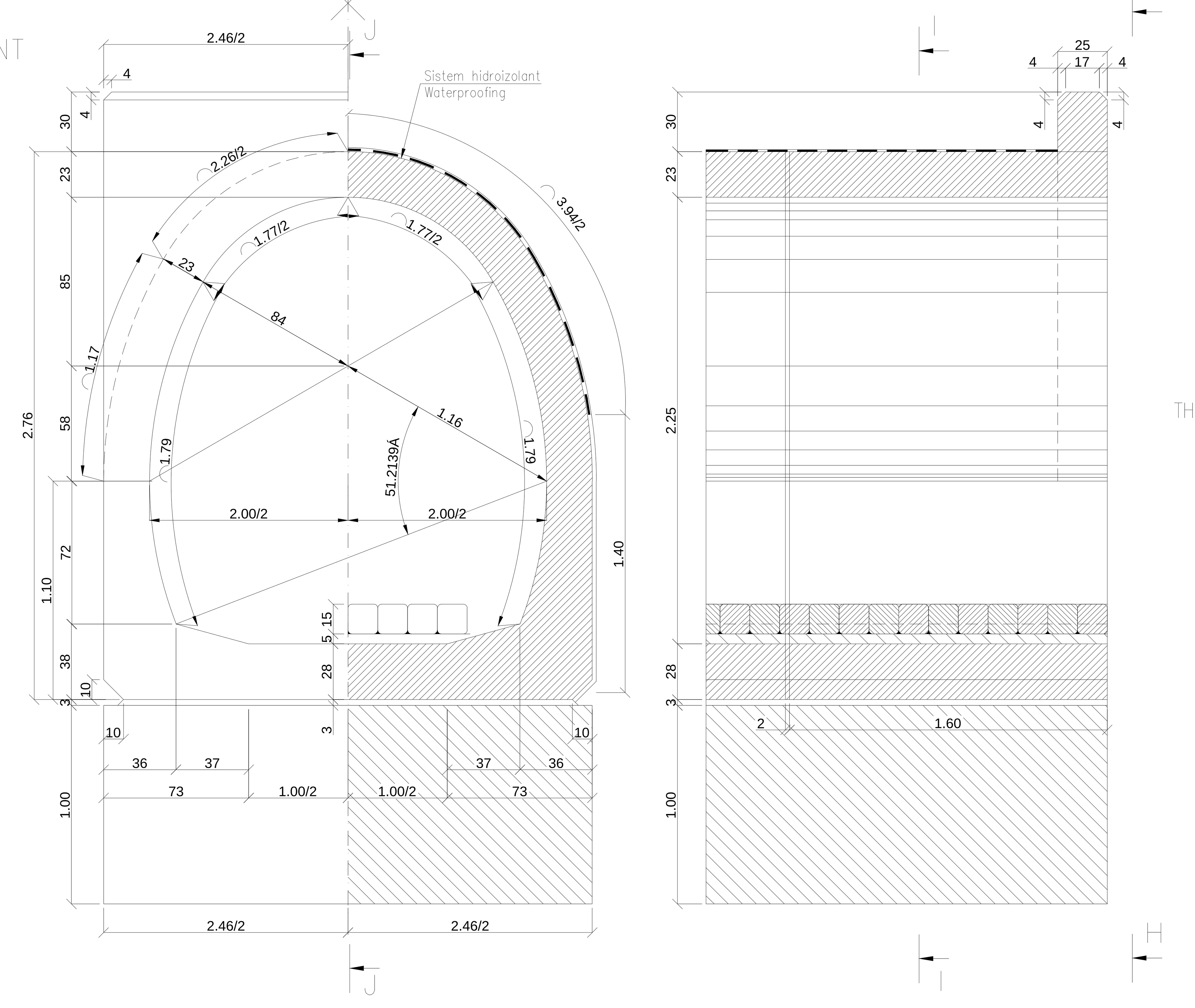
Marca Mark	Ø (mm)	Bucati asemenea Similar pieces	Lungime/buc. Lenght/pcs.	Lungimi totale/diametru Total lenght/diameter (m) S255 Ø10	S235 Ø14
21a	14	1	1.25	–	1.25
21b	14	2	1.25	–	2.50
21c	14	2	1.35	–	2.70
21d	14	2	1.55	–	3.10
21e	14	2	1.80	–	3.60
21f	14	2	2.05	–	4.10
21g	14	2	1.60	–	3.20
21h	14	2	1.30	–	2.60
21i	14	2	1.15	–	2.30
21j	14	2	1.00	–	2.00
21k	14	2	0.90	–	1.80
21l	14	2	0.80	–	1.60
21m	14	2	0.75	–	1.50
21n	14	2	0.70	–	1.40
22	10	2	3.45	6.90	–
23	10	2	3.15	6.30	–
24	10	4	1.05	4.20	–
25	10	4	0.65	2.60	–
25a	10	4	0.35	1.40	–
26	10	2	6.85	13.70	–
Lungimi/diametre Leght/diameter (m)				35.10	33.65
Greutate/metru Weight/meter (kg/m)				0.617	1.208
Greutate/diametre Wight/diameter (kg)				22	41
Greutate/tip de otel Wight/type for steel (kg)				22	41
TOTAL (kg)				63	

CLASA DE PRECIZIE/CLASS PRECISION = 7
CONFORM/ACCORDING SR EN 13369-89

VEDERE H–H
VIEW H–H

SECTIUNE I–I
SECTION I–I

SECTIUNE J–J
SECTION J–J

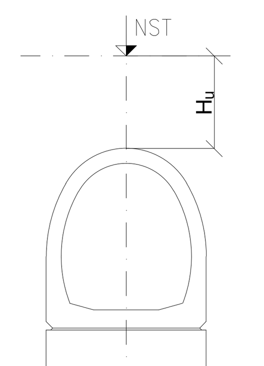


CARACTERISTICILE UNUI TRONSON PREFABRICAT CURENT DE 1.60m
THE CHARACTERISTIC FOR THE ONE PREFAB CURRENT SECTIONE TO 1.60m

1	Beton armat C35/45 Reinforcement concrete C35/45	m^3	3.60
2	Armaturi S255 Reinforcement S255	kg	128
3	Armaturi S235 Reinforcement S235	kg	62
4	Armaturi S405 Reinforcement S405	kg	380
5	Cofraje Shuttering	m^2	30.50
6	Greutate Weight	t	9.36

CARACTERISTICILE UNUI TRONSON PREFABRICAT CURENT DE 1.60m
THE CHARACTERISTIC FOR THE ONE PREFAB FINAL SECTIONE TO 1.60m

1	Beton armat C35/45 Reinforcement concrete C35/45	m^3	4.00
2	Armaturi S255 Reinforcement S255	kg	150
3	Armaturi S235 Reinforcement S235	kg	103
4	Armaturi S405 Reinforcement S405	kg	380
5	Cofraje Shuttering	m^2	35.60
6	Greutate Weight	t	10.40



Domeniu de aplicabilitate
Domain of application
Aliniament: H_u=(2÷18)m
Alignment
Curba: H_u=(2÷18)m
Curve

Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR
D					
C					
B					
A	12.2011	Revizia 1	Balan Carmen		

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANŢAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

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

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	Şef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secţiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

AREX Lider COMPANY

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Dinulescu Stanciu	11.2011	
Întocmit Elaborated	Proiectant Designer	Balan Carmen	11.2011	

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

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
PTh. / T.D.

Denumire desen / Drawing Title :

PLAN COFRAJ SI ARMARE PENTRU ELEMENT PREFABRICAT B2
CONCRETE FORMING AND REINFORCEMENT PLAN FOR PRECAST ELEMENTS B2

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01

E A 5 1 | 0 1 | E | 0 0 | B C | P O | 0 0 | 0 | 0 | 0 0 8 | 1