

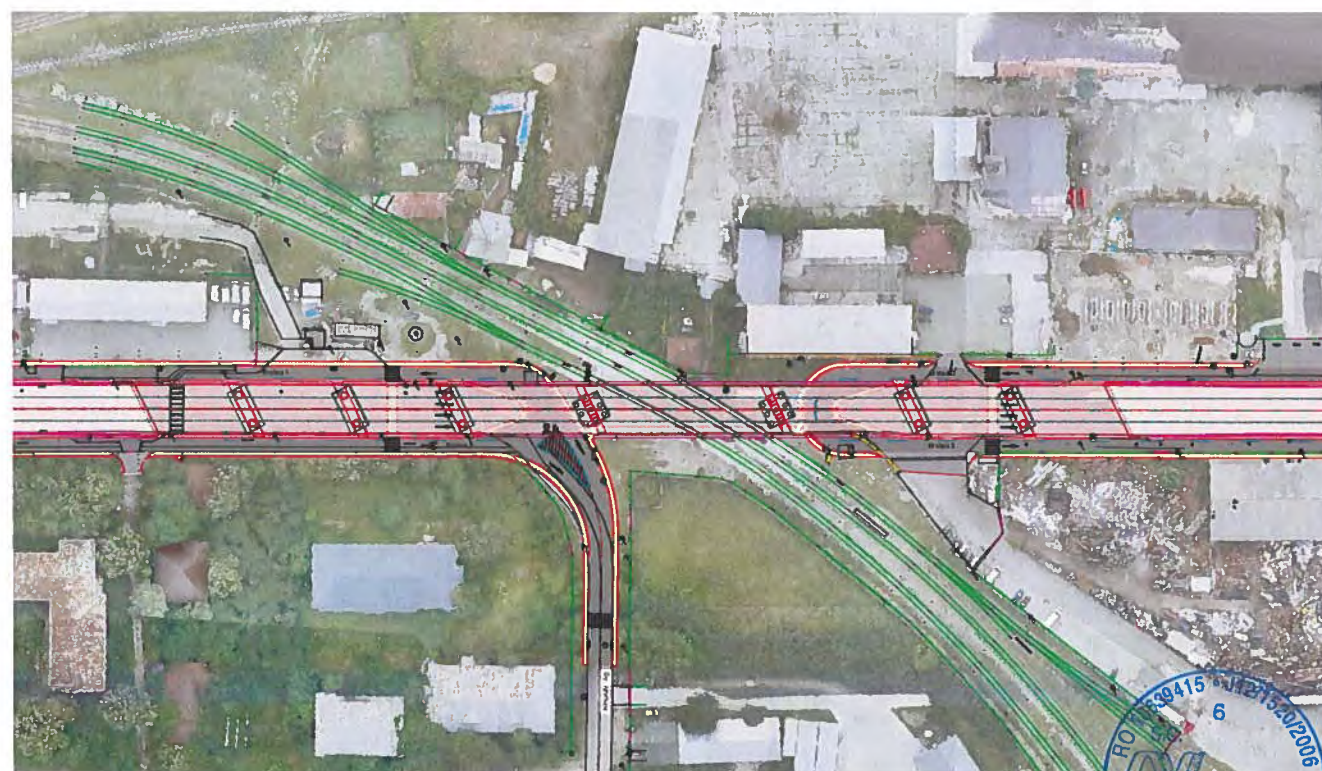
**“CONSTRUIRE PASAJ SUPERIOR PE DN2, PESTE CF LA ROMAN, KM 332+961”**

**PROIECT TEHNIC DE EXECUTIE (P.T.E.)**

**OBIECTUL 02 – LUCRARI DE PODURI**

**PART. 2: CONFECTIE METALICA**

**PIESE DESENATE**

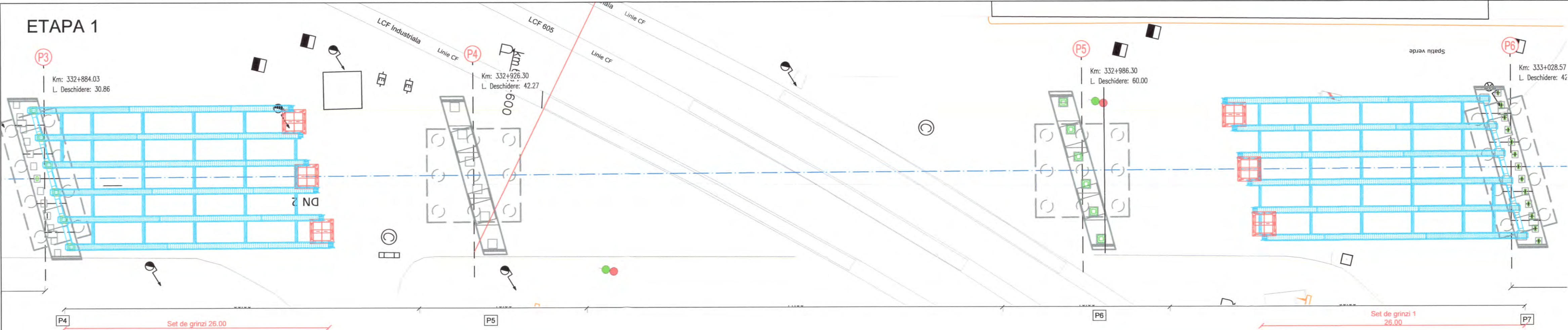


DATA:  
IANUARIE 2024

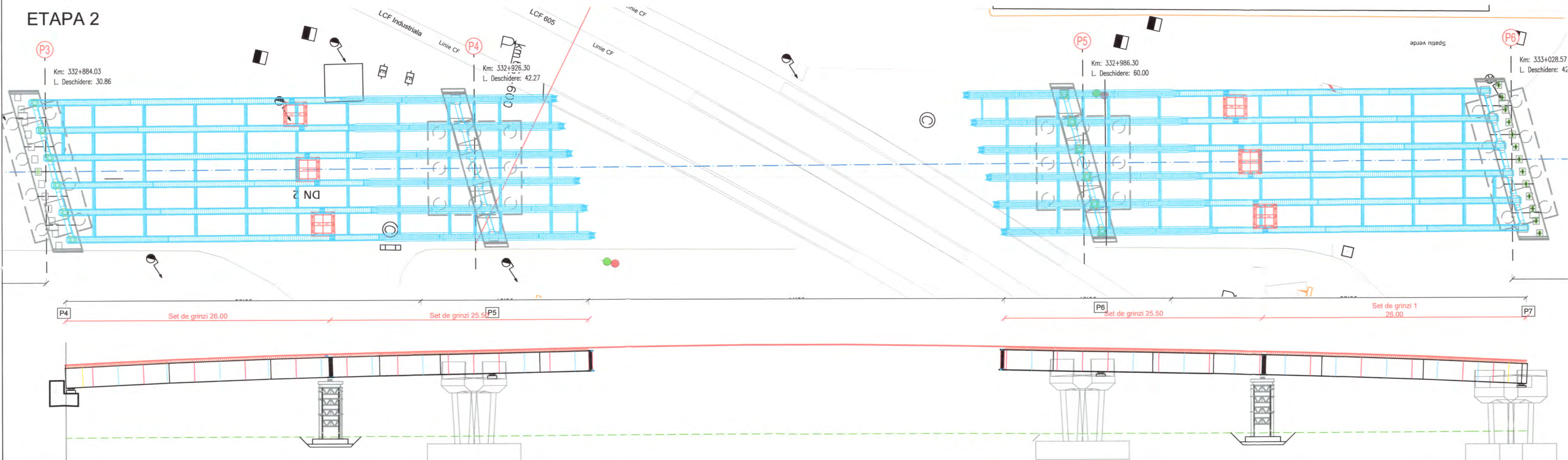
NR. PROIECT:  
550/2021



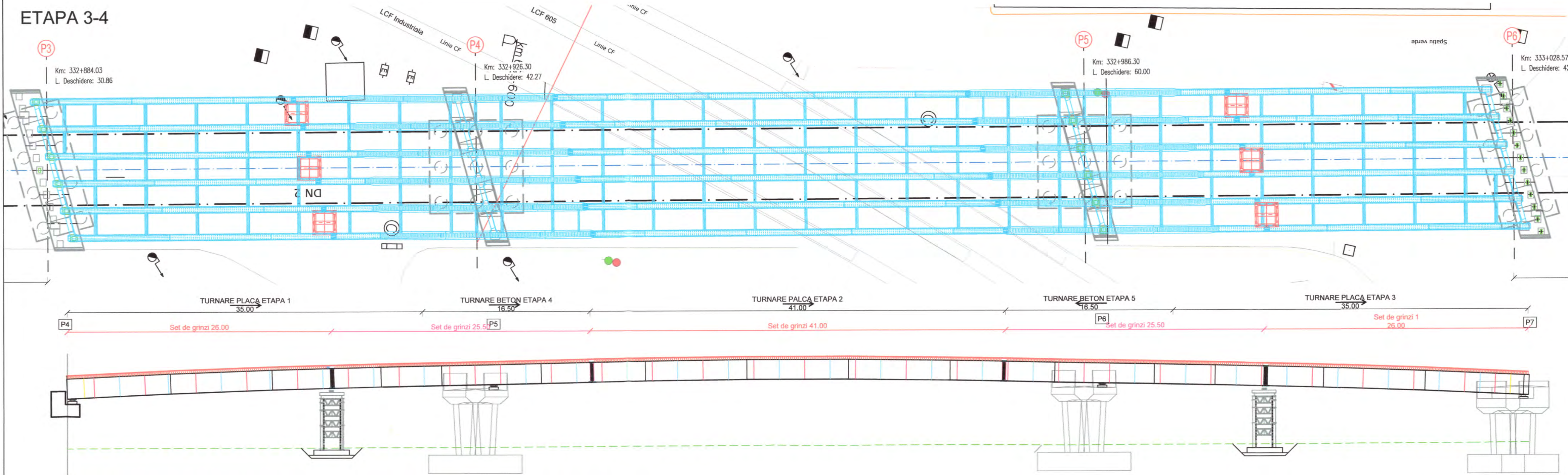
ETAPA 1



ETAPA 2



ETAPA 3-4



ETAPA 1

1. Se executa infrastructurile
2. Se monteaza paleele provizorii
3. Se sudeaza in situ subasamblele si se solidarizeaza cu antretoazele de capat si cele curente.
4. Se monteaza cate un set de grinzi pe pozitie cu automacaraua.
5. Dupa monteara celor 6 seturi de grinzi (3 pila P4 si 3 pila P7) se monteaza antetoazele de capat si cele curente care solidarizeaza seturile de grinzi intre ele.

ETAPA 2

1. Se sudeaza in situ subasamblele si se solidarizeaza cu antretoazele de capat si cele curente.
2. Se monteaza seturile si se reazileaza imbinarile de montaj intre grinzile montate in etapa 1 si grinzile montate in etapa 2.
3. Dupa monteara celor 6 seturi de grinzi (3 pila P5 si 3 pila P6) se monteaza antetoazele de capat si cele curente care solidarizeaza seturile de grinzi intre ele.

ETAPA 3


1. Se sudeaza in situ subasamblele si se solidarizeaza cu antretoazele curente.
2. Se monteaza cu automacaraua cate doua grinzi metalice pe pozitie. Automacaraua va sustine setul de grinzi pana la realizarea imbinarilor cu suruburi intre ansamble.
3. Dupa monteara celor 3 seturi de grinzi se monteaza antetoazele de capat si cele curente care solidarizeaza seturile de grinzi intre ele.

ETAPA 4

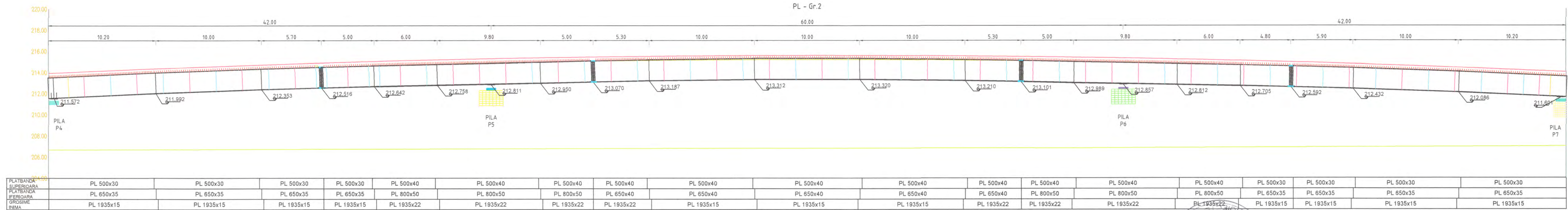
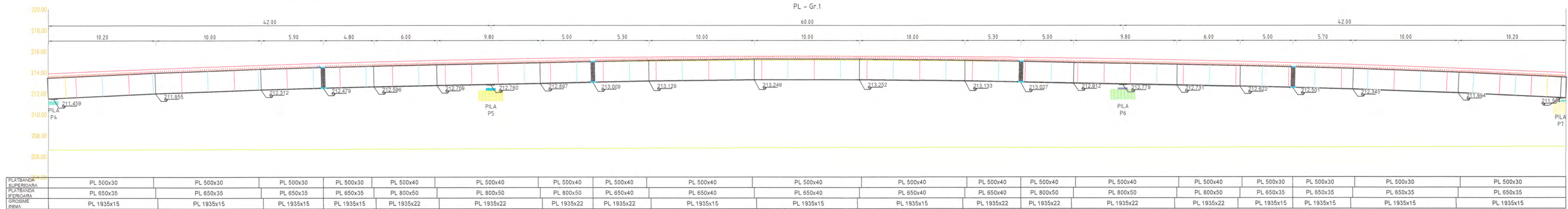
1. Se monteaza predalele prefabricate.
2. Se toarna placa din beton armat (etapa 1-2-3-4-5). Sagetile indica directia de turnare. Turnarile se vor executa la interval de 7 zile dupa turnarea anterioara.
3. Se demoneaza paleele de pe deschiderile marginale.
4. Se monteaza lisele parapet si se realizeaza grinda parapet.
5. Se monteaza parapetul H4B si se realizeaza calea pe pasaj.

Nota:

1. Seturile de grinzi se vor sprijini din lateral dupa ce vor fi montate pe pozitie pana la montarea antretoazelor intermediare dintre seturile de grinzi.
2. Montarea confectionii metalice se va face in conditii fara vant.

BENEFICIAR: COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.		<div><div>S.C. NV CONSTRUCT S.R.L. Cluj-Napoca, Str. Arges, nr.26, ap.8 C.U.I.: RO18639415 Nr.Reg. Com:J121520/2006</div></div>		TITLU PROIECT: "Pasaj superior pe DN2, peste CF la Roman, Km 332+961"		Coord. proiect: ing. Dan SIMA		Numar Proiect: 550/2021		TITLU PLANSA: SCHEMA ETAPELOR DE EXECUTIE	
Coord. adj. proiect: ing. Mircea BOBAR		Proiectat: ing. Dan TOMOAGA		Verificat: ing. Bogdan DEMAN		Coord. adj. proiect: ing. Mircea BOBAR		Proiectat: ing. Dan TOMOAGA		Verificat: ing. Bogdan DEMAN	
Adresa Bld. Dr. Gheorghe 38, sector 1, Bucuresti, Romania, 010873 Tel: 021.264.32.00 / Fax: 021.312.06.84 E-mail: info@nvconstruct.ro		Data: Ian. 2024		PROIECT: 550/2021		FAZA: A1		OBJEC: PTE		SUBIECT: POD	





NOTA:  
Atentie! Cotele tin cont atat de linia rosie a drumului  
cat si de contrasegetile structurii composite.

BENEFICIAR :  
  
COMPANIA NAȚIONALĂ DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE S.A.  
Adresa: Bld. Dinicu Golescu 38, sector 1, București, România, 010873  
Tel.: 021.264.32.00 / Fax: 021.312.09.84  
E-mail: office@cnair.ro

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.8  
C.U.I.: RO18639415  
Nr.Reg. Com: J12/1520/2006

INFRASTRUCTURE DESIGN

TITLU PROIECT:  
"Pasaj superior pe DN2, peste CF la Roman,  
Km 332+961"  
FAZA: P.T.E.

Coord. proiect: Ing. Dan SIMA  
Coord. adj. proiect: Ing. Mircea BOBAR  
Proiectat: Ing. Dan TOMOIAGA  
Verificat: Ing. Valeria TONU

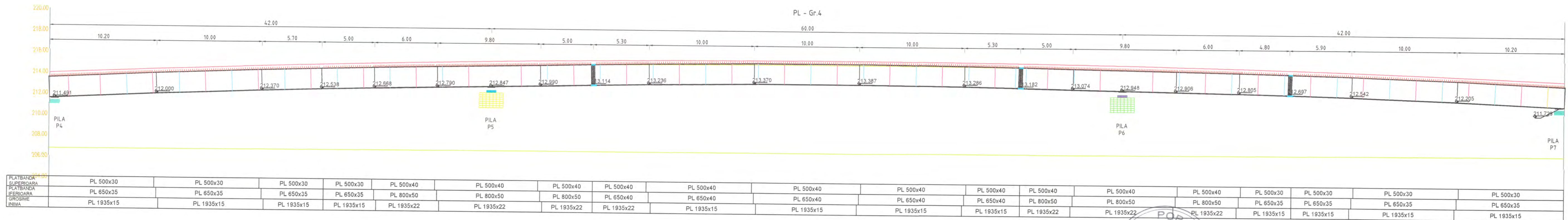
Numar Proiect: 550/2021  
Scara: 1:200  
Data: Ian. 2024

TITLU PLANSA:  
Trasare grinzi tablier mixt  
Grinda 1/ Grinda 2  

PROIECT	ALTERNATIVA	FAZA	OBIECT	SUBIECT	NUMAR	REVIZIA
550/2021	A1	PTE	POD	PD	602	1

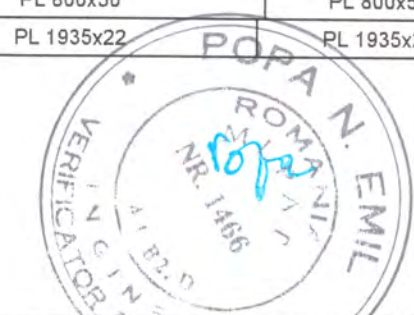
Nota: Aceasta plansa este proprietate intelectuală a SC NV CONSTRUCT SRL. Reproducerea acestei plansa este interzisă fără acordul scris al SC NV CONSTRUCT SRL.



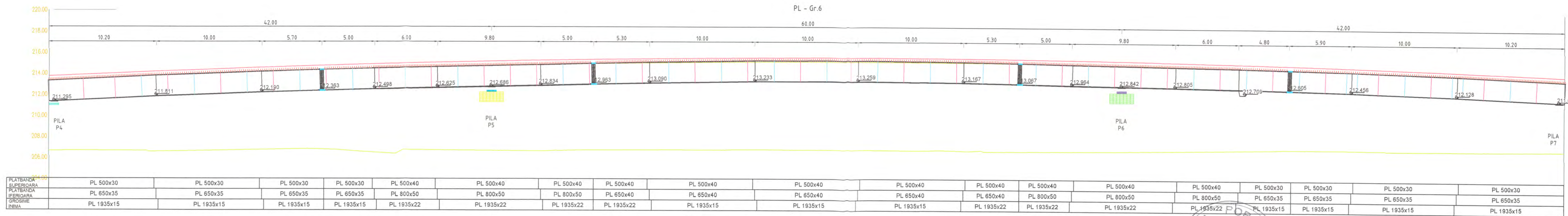
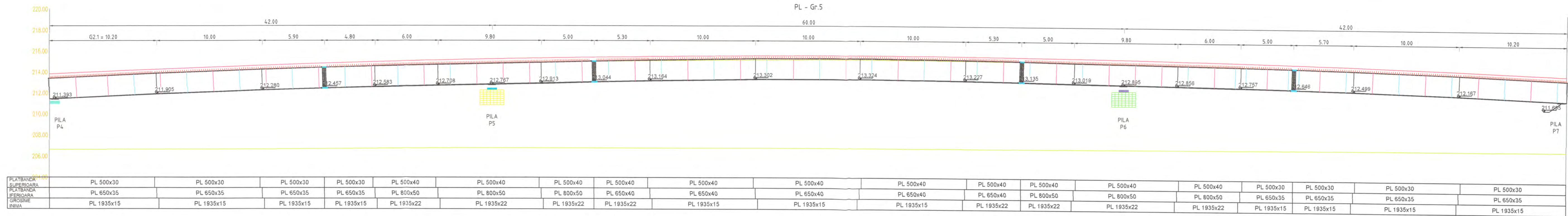


Nota: Aceasta planşa este proprietate intelectuală a SC NVN CONSTRUCT SRL. Reproducerea acestei planşe este interzisă fără acord scris al SC NVN CONSTRUCT SRL.

ing. Dan SIMA	   	Numar Proiect: 550/2021	TITLU PLANŞA:									
ing. Mircea BOBAR		Scara: 1:200	Trasare grinzi tablîer mixt Grinda 2/ Grinda 4									
ing. Dan TOMOIAGA		Data: 1an. 2024	PROIECT	ALTERNATIVĂ	FAZA	OBJET	SUBIECT	NUMAR	REVIZIA			
ing. Valeria TONU		550/2021	A1	PETA	POND	PD	803	1				







NOTA:  
Atentie! Cotele tin cont atat de linia rosie a drumului  
cat si de contrasegetile structurii composite.

BENEFICIAR:  
  
COMPANIA NATIONALA DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE S.A.

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.8  
C.U.I.: RO18639415,  
Nr.Reg. Com:J12/1520/2006

nv construct  
INFRASTRUCTURE DESIGN

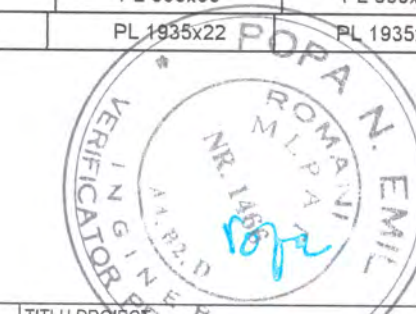
TITLU PROIECT:  
"Pasaj superior pe DN2, peste CF la Roman,  
Km 332+961"

Coord. proiect: Ing. Dan SIMA  
Coord. adj. proiect: Ing. Mirocea BOBAR  
Proiectat: Ing. Dan TOMOIAGA  
Verificat: Ing. Valeria TONU

Numar Proiect:  
550/2021  
Scara:  
1:200  
Data:  
Ian. 2024

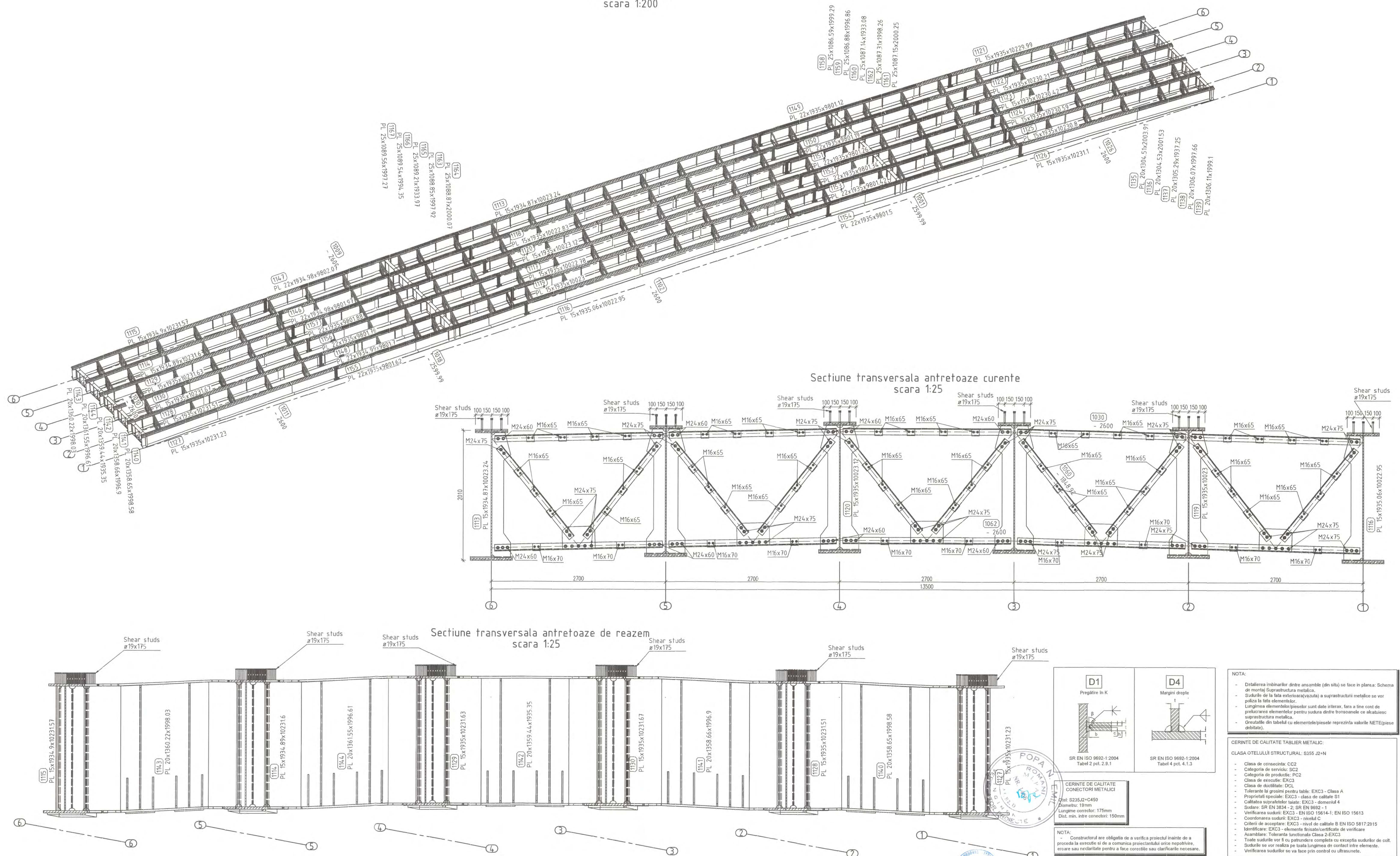
TITLU PLANSA:  
Trasare grinzii tablier mixt  
Grinda 5/ Grinda 6

PROIECT	ALTERNATIVA	FAZA	OBIECT	SUBIECT	NUMAR	REVIZIA
550/2021	A1	PTE	POD	PD	604	1



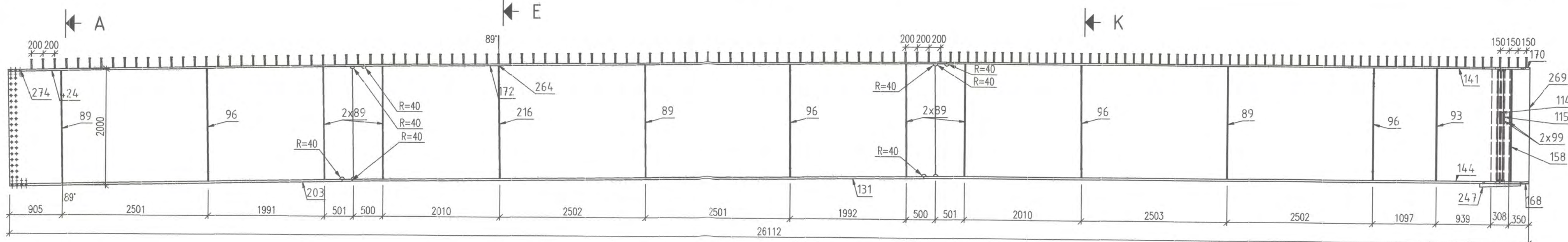
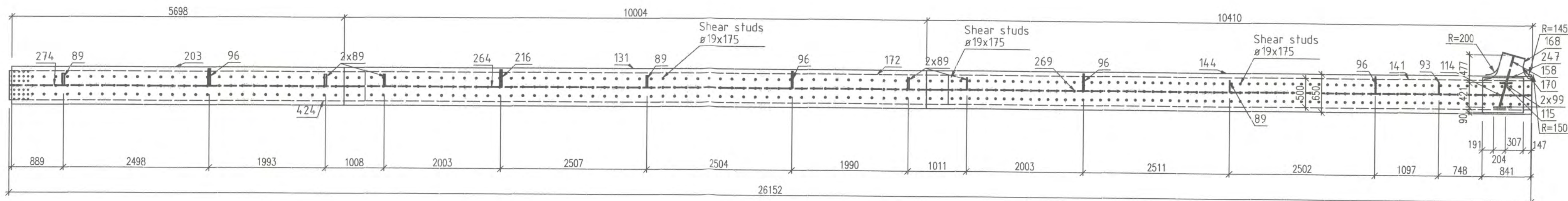


Vedere izometrica  
scara 1:200

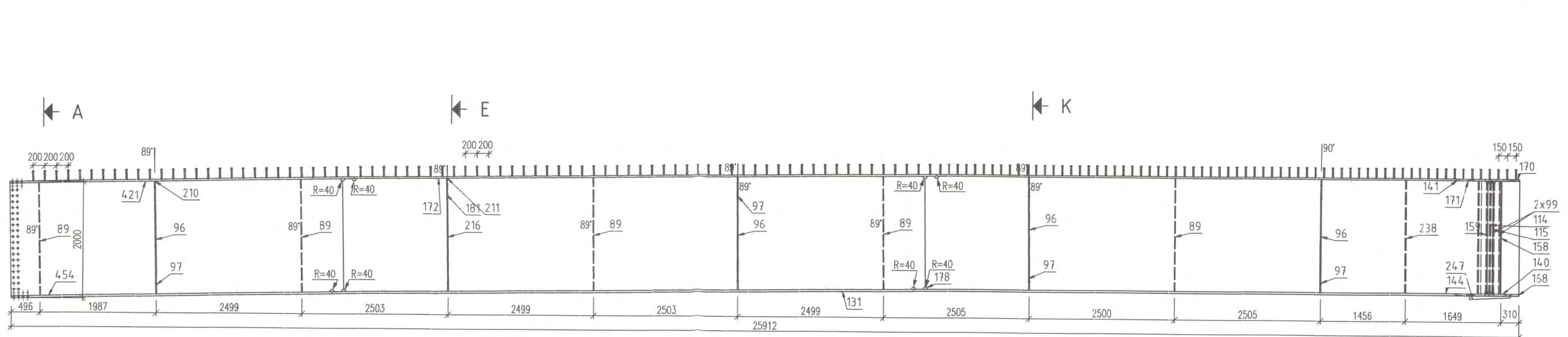
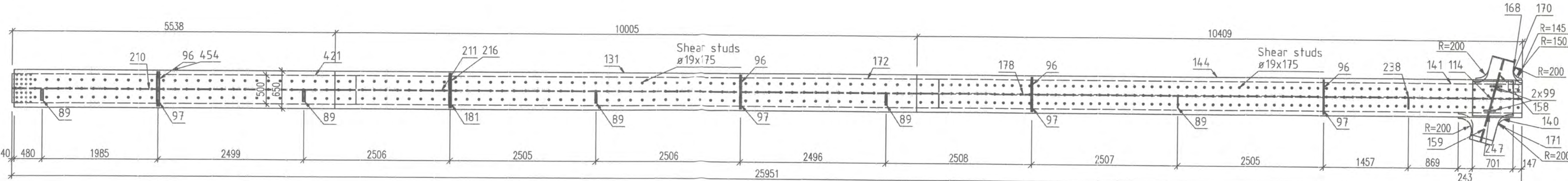




1x 1121 PL 15x1935x10229.99 - 1:50



1x 1122 PL 15x1935x10230.21 - 1:50



CERINTE DE CALITATE  
CONECTORI METALICI

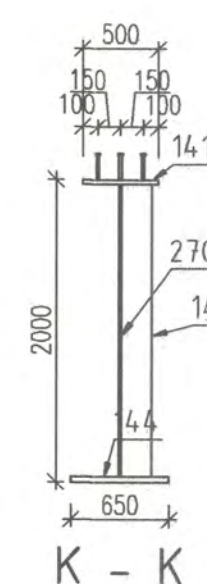
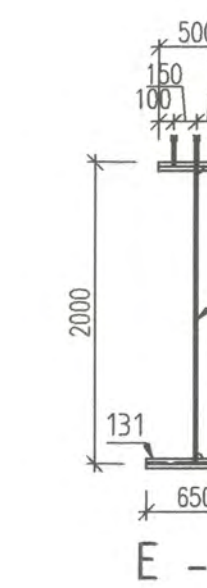
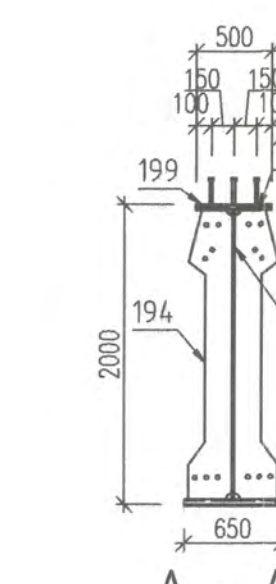
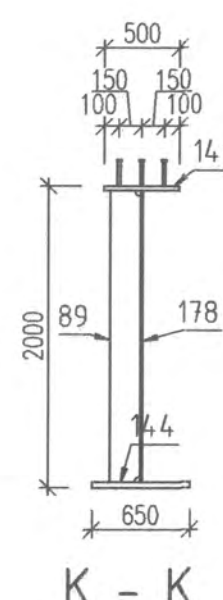
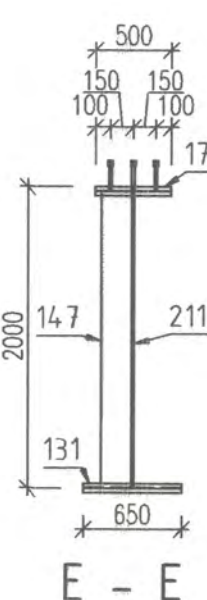
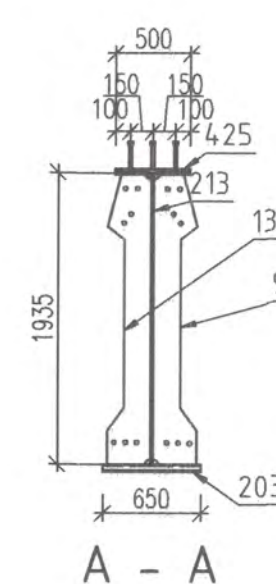
Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. între conectori: 150mm

NOTA:  
- Constructorul are obligația de a verifica proiectul înainte de a  
procede la execuție și de a comunica proiectantului orice nepotrivire,  
eroare sau neclaritate pentru a face corecțiile sau clarificările necesare.

D1  
Pregătire în K

SR EN ISO 9692-1:2004  
Tabel 2 pct. 2.9.1



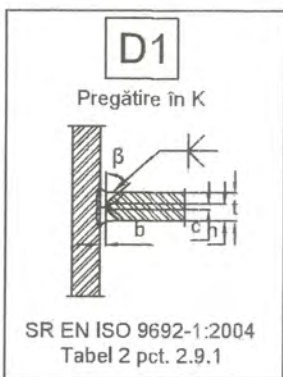


**CERINTE DE CALITATE  
CONECTORI METALICI**

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.



Mark	Quantity	Description	Length	Grade	Part weight	Total weight
1123	1	PL 15x1935x10230.42				
178	1	PL 15x1935x10230.21	10230	S355	2328.46	2328.46
211	1	PL 15x1935x10019.83	10020	S355	2281.01	2281.01
144	1	PL 650x35x10409.67	10410	S355	1859.04	1859.04
131	1	PL 650x35x10005.38	10005	S355	1786.84	1786.84
213	1	PL 15x1935x5902.56	5903	S355	1344.29	1344.29
141	1	PL 500x30x10030.42	10030	S355	1181.08	1181.08
172	1	PL 500x30x10019.79	10020	S355	1179.83	1179.83
203	1	PL 650x35x5698.9	5699	S355	1017.75	1017.75
425	1	PL 500x30x6102.56	6103	S355	718.58	718.58
159	1	PL 20x550.44x1935	1935	S355	166.96	166.96
448	1	PL 600x61.12x700	700	S355	150.21	150.21
158	1	PL 20x486.58x1934.99	1935	S355	147.55	147.55
171	1	PL 30x476.88x928.22	928	S355	68.05	68.05
140	1	PL 30x476.88x878.22	878	S355	65.4	65.4
97	4	PL 15x290x1935	1935	S355	64.03	256.13
136	3	PL 15x290x1935	1935	S355	64.03	192.09
181	1	PL 15x290x1935	1935	S355	64.03	64.03
224	1	PL 15x290x1935	1935	S355	64.03	64.03
297	1	PL 15x290x1935	1935	S355	64.03	64.03
170	1	PL 30x476.88x804.66	805	S355	61.95	61.95
114	1	PL 20x205.09x1935	1935	S355	61.78	61.78
115	1	PL 20x205.09x1935	1935	S355	61.78	61.78
99	2	PL 20x200x1935	1935	S355	60.76	121.52
93	1	PL 20x200x1935	1935	S355	60.51	60.51
168	1	PL 30x413.94x785.52	786	S355	52.17	52.17
147	1	PL 12x200x1935	1935	S355	36.46	36.46
89	3	PL 12x200x1935	1935	S355	36.3	108.91
479	438	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	187.29
One assembly weight:					15687.72	15687.72

1124	1	PL 15x1935x10230.59				2328.55	2328.55
270	1	PL 15x1935x10230.59	10231	S355	2328.55	2328.55	2328.55
265	1	PL 15x1935x10019.99	10020	S355	2281.06	2281.06	2281.06
144	1	PL 650x35x104.09.67	104.10	S355	1859.04	1859.04	1859.04
131	1	PL 650x35x10005.38	10005	S355	1786.84	1786.84	1786.84
273	1	PL 15x1935x5702.44	5702	S355	1298.7	1298.7	1298.7
141	1	PL 500x30x10030.42	10030	S355	1181.08	1181.08	1181.08
172	1	PL 500x30x10019.79	10020	S355	1179.83	1179.83	1179.83
455	1	PL 650x35x5499.03	5499	S355	982.06	982.06	982.06
199	1	PL 500x30.05x5902.46	5902	S355	695.54	695.54	695.54
159	1	PL 20x550.44x1935	1935	S355	166.96	166.96	166.96
449	1	PL 600x61.42x700	700	S355	150.71	150.71	150.71
158	1	PL 20x486.58x1934.99	1935	S355	147.55	147.55	147.55
171	1	PL 30x476.88x928.22	928	S355	68.05	68.05	68.05
140	1	PL 30x476.88x878.22	878	S355	65.4	65.4	65.4
291	1	PL 15x290x1935	1935	S355	64.22	64.22	64.22
293	1	PL 15x290x1935	1935	S355	64.22	64.22	64.22
97	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
134	3	PL 15x290x1935	1935	S355	64.03	192.09	192.09
344	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
294	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
223	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
194	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
296	1	PL 15x290x1935	1935	S355	64.03	64.03	64.03
170	1	PL 30x476.88x804.66	805	S355	61.95	61.95	61.95
114	1	PL 20x205.09x1935	1935	S355	61.78	61.78	61.78
115	1	PL 20x205.09x1935	1935	S355	61.78	61.78	61.78
99	2	PL 20x200x1935	1935	S355	60.76	121.52	121.52
93	1	PL 20x200x1935	1935	S355	60.51	60.51	60.51
168	1	PL 30x413.94x785.52	786	S355	52.17	52.17	52.17
147	1	PL 12x200x1935	1935	S355	36.46	36.46	36.46
89	3	PL 12x200x1935	1935	S355	36.3	108.91	108.91
479	435	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	186.01	186.01
One assembly weight:					15647.17	15647.17	15647.17
Combined Total						31334.89	31334.89

NOTA:

- Detalierea imbinarilor dintre ansamble (din situ) se face in planşa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) a suprastructurii metalice se vor poliza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcătuiesc suprastructura metalica.
- Greutatele din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

CERINTE DE CALITATE TABLIER METALIC:

CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecință: CG2  
Categorie de servicii: SC2  
Categorie de producție: PC2  
Clasa de execuție: EXC3  
Clasa de dificultate: DCL  
Toleranțe la grosimi pentru toate: EXC3 - Clasa A  
Proprietăți speciale: EXC3 - clasa de calitate S1  
Calitatea suprafețelor tratate: EXC3 - domenii 4  
Sudare: SR EN 3834 - 2, SR EN 9692 - 1  
Verificarea surdur: EXC3 - EN ISO 18647-1, EN ISO 15613  
Coordonarea sudur: EXC3 - nivelul C  
Criterii de acceptare: EXC3 - nivel de calitate B EN 58172015  
Jucării (EXC3 - alegerea finală) (Criterii de verificare  
Asesorat: Toleranțe funcționale Clasa 2-EXC3  
Note pentru verificarea și punerea în funcțiune a echipamentelor de coit.  
Se va realiza un tabel de verificare și punere în funcțiune.  
Verificarea sudurilor va avea prin coit cu ultrasunete.

Notă: Aceasta planșă este proprietate intelectuală a SC NV CONSTRUCT SRL. Reproducerea acestei planșe este interzisă fără acordul scris al SC NV CONSTRUCT SRL

TITLU PROIECT:

"Pasaj superior pe DN2, peste CF la Roman  
Km 332+961"

Coord. project:	
-----------------	--

Coord. adj. project:
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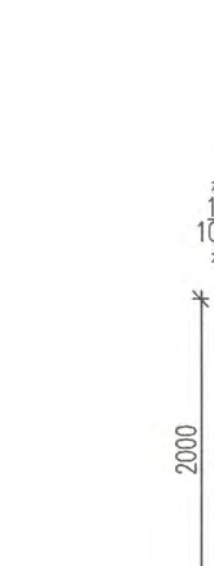
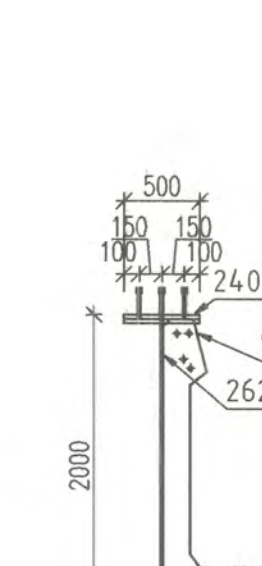
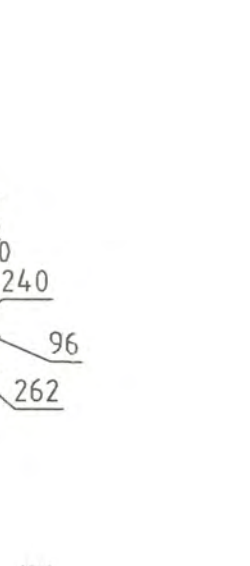
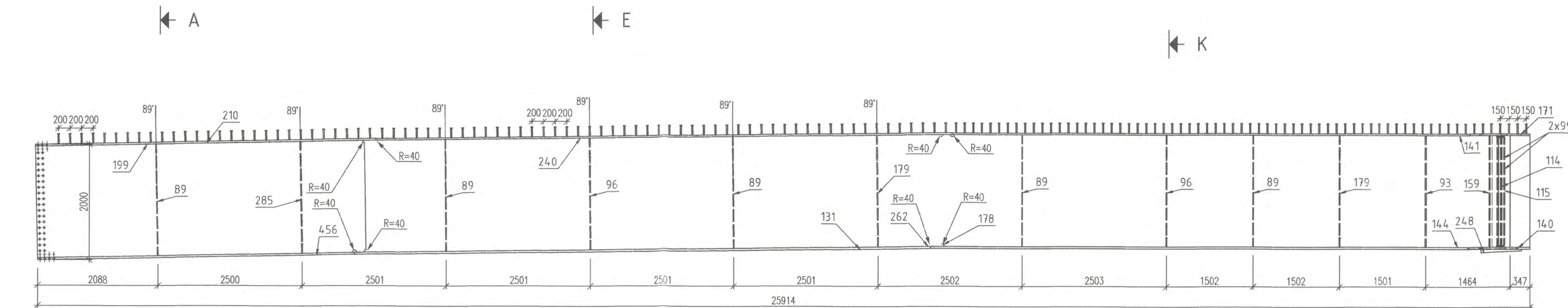
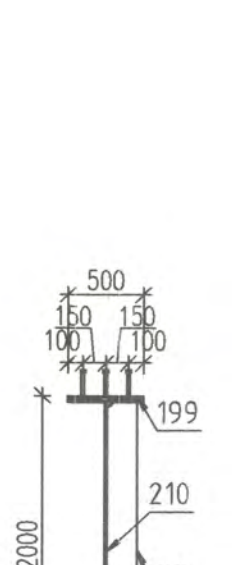
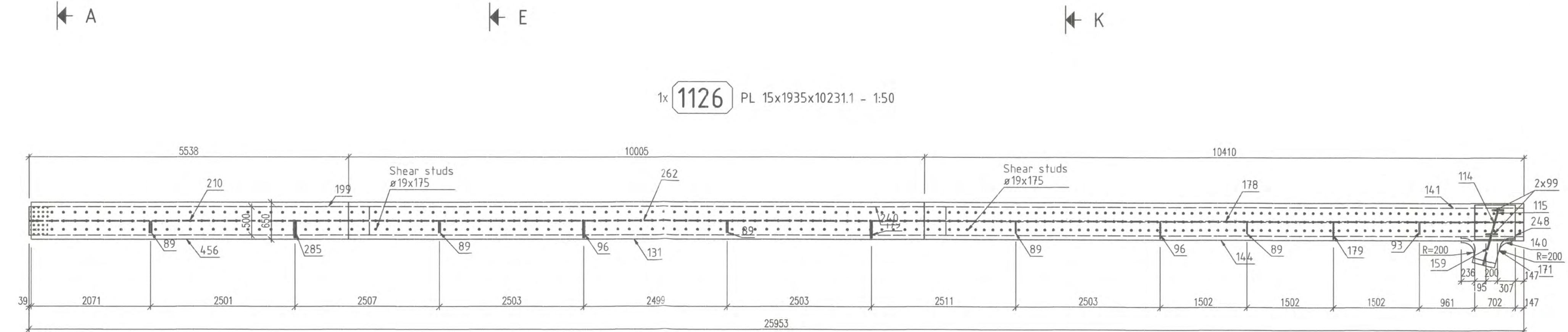
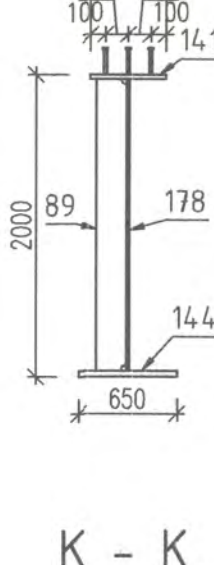
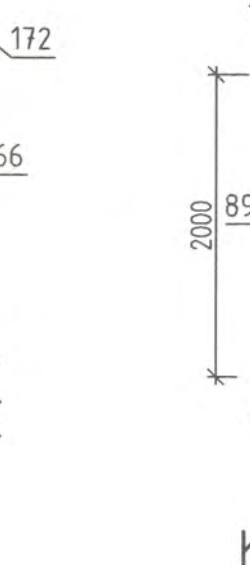
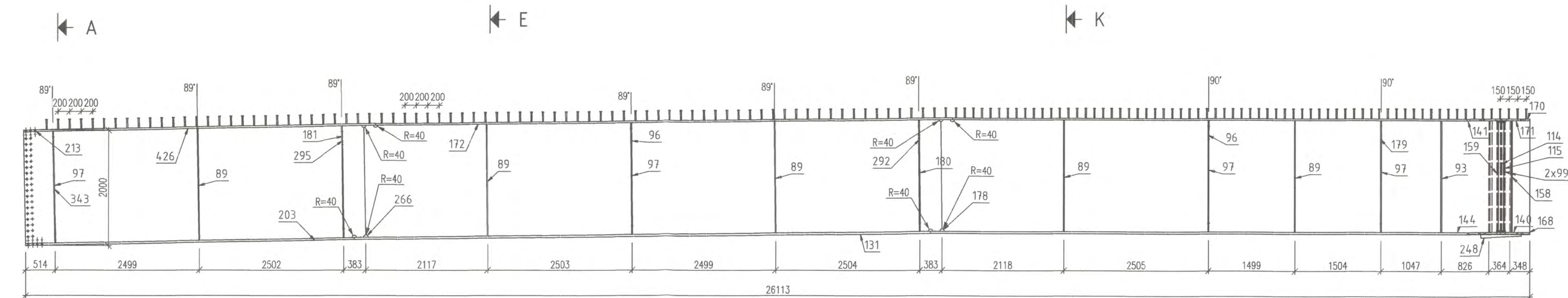
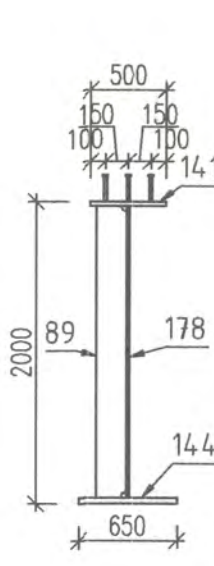
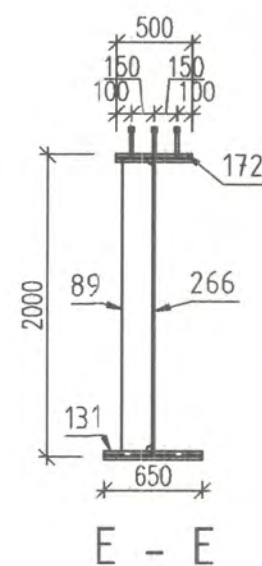
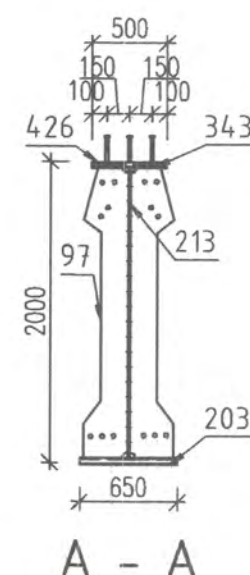
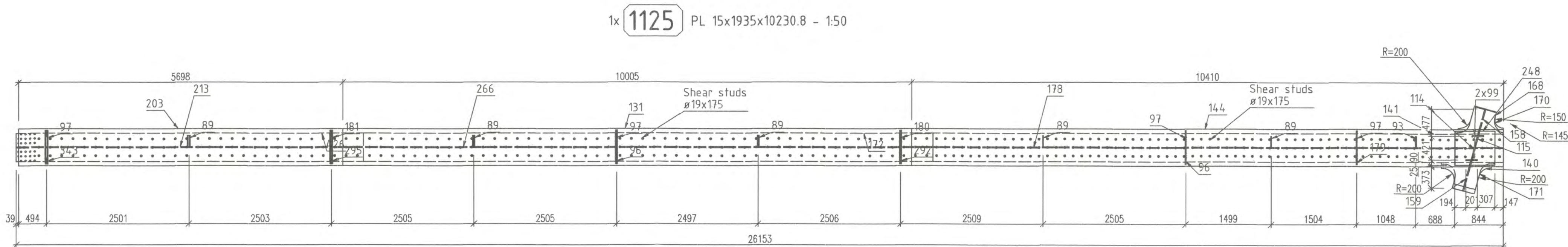
Number	Project:	T
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550/2021
Scara:

Confectie metalica  
Din ansamblu

FAZA	ORIECT	SUBIECT	NUMAR	REZULTAT
------	--------	---------	-------	----------





NOTA:

- Detalierea imbinarilor dintre ansamble (din situ) se face in planşa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) a suprastructurii metalice se vor poliza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcatuiesc suprastructura metalica.
- Greutiile din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

CERINTE DE CALITATE TABLIER METALIC:

CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecinta: CC2
- Categoria de serviciu: SC2
- Categoria de productie: PC2
- Clasa de executie: EXC3
- Clasa de ductilitate: DCL
- Tolerante la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - clasa de calitate S1
- Calitatea suprafetelor taiate: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2; SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finisate/certificate de verificare
- Asamblare: Toleranta functionala Clasa 2-EXC3
- Toate sudurile vor fi cu patrundere completa cu exceptia sudurilor de colt.
- Sudurile se vor realiza pe toata lungimea de contact intre elemente.
- Verificarea sudurilor se va face prin control cu ultrasunete.

CERINTE DE CALITATE  
CONECTORI METALICI

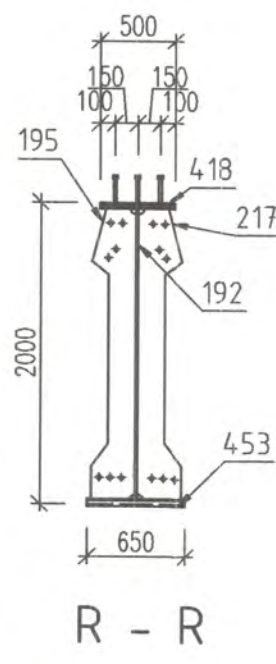
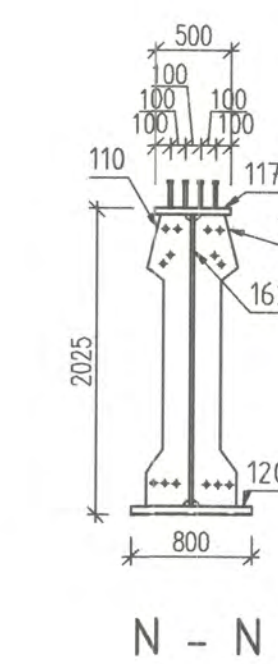
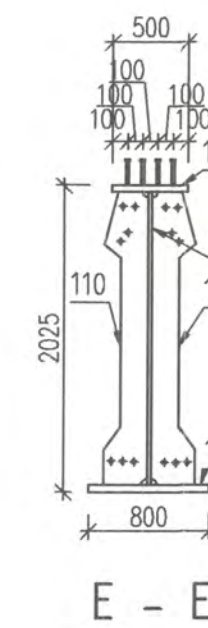
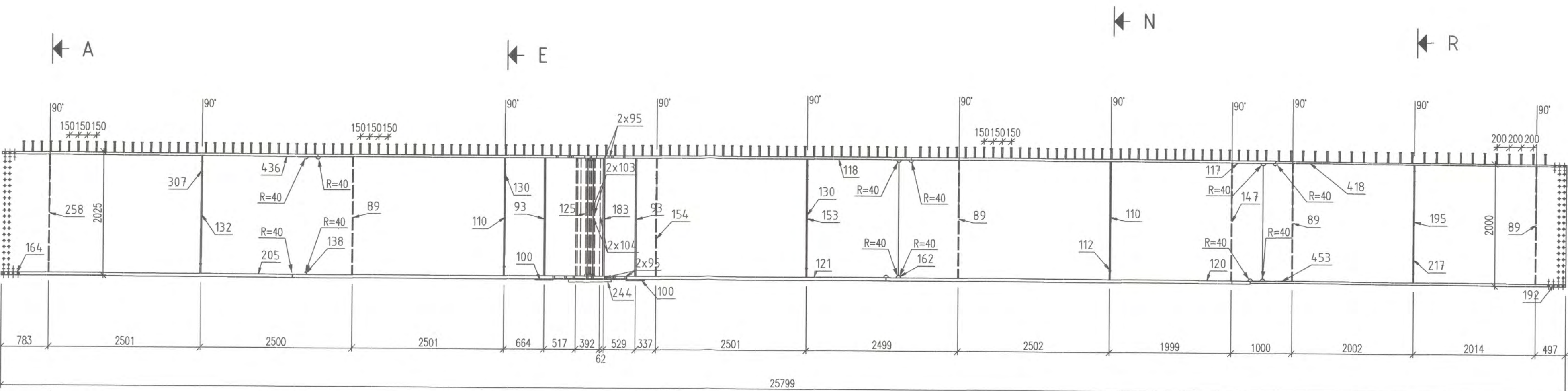
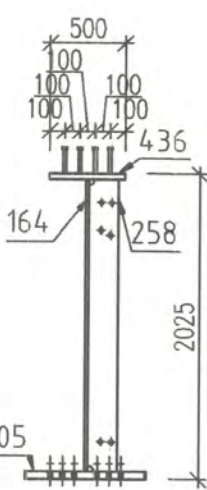
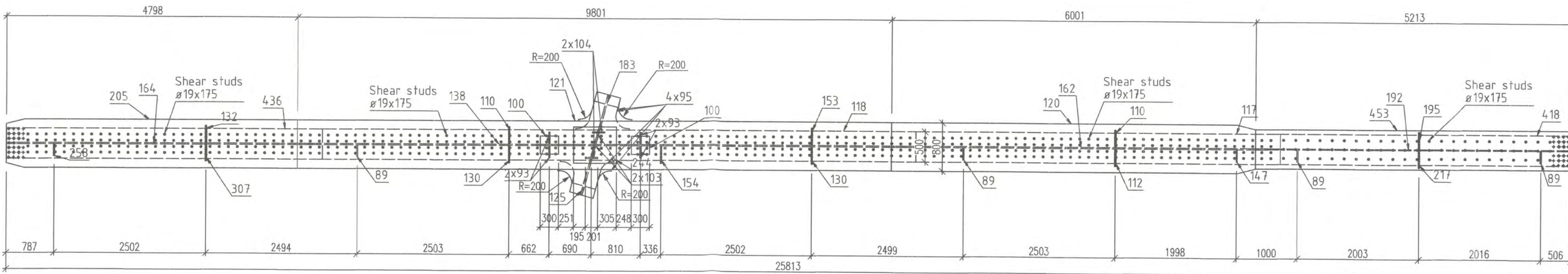
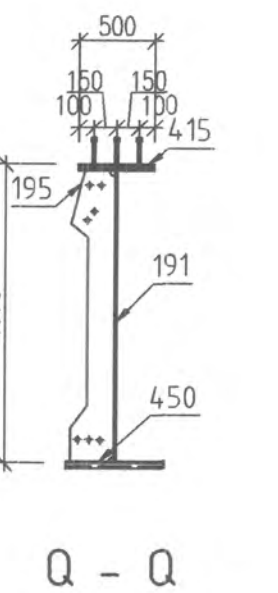
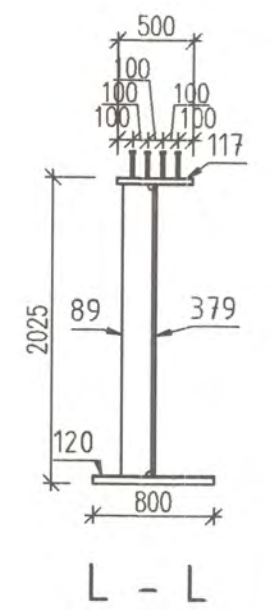
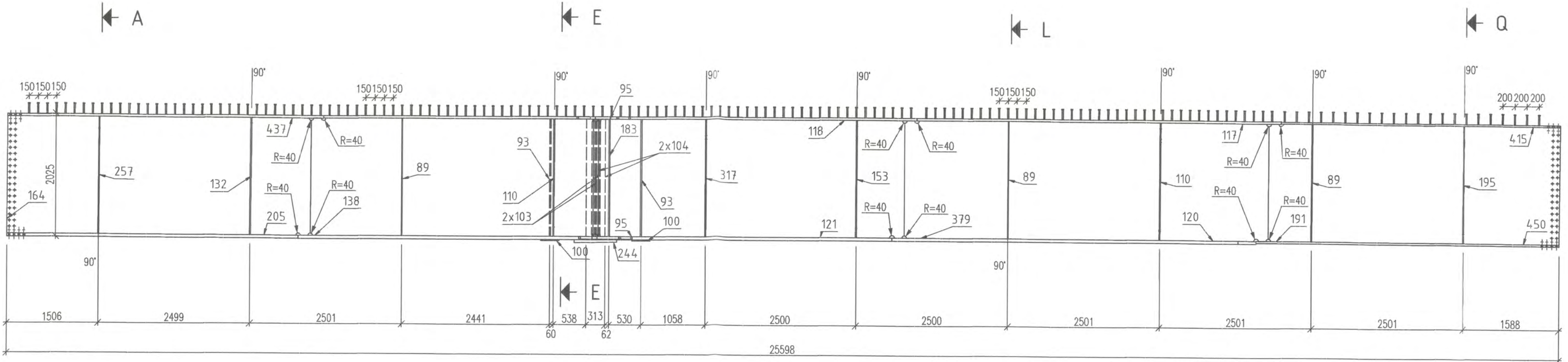
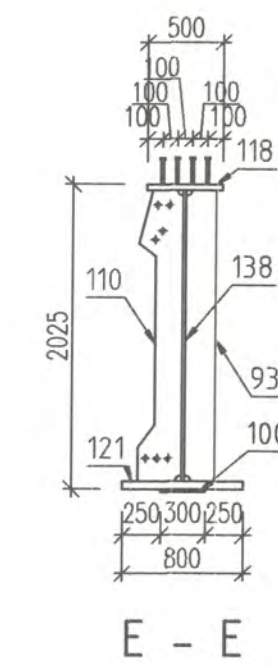
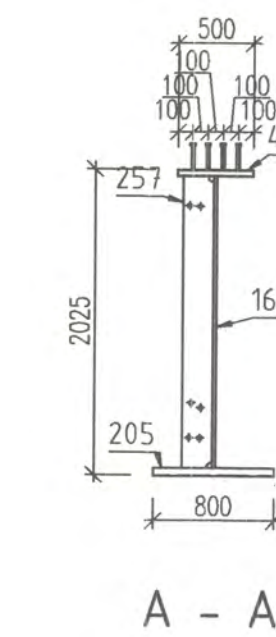
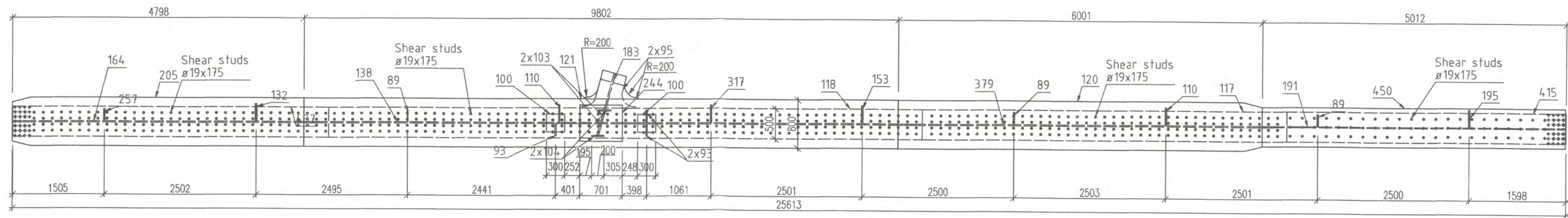
Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.

D1  
Pregătire în K





CERINTE DE CALITATE  
CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA:  
Construcorul este obligat de a verifica proiectul inainte de a  
procede la executie si de a comunica proiectantului orice neputivne,  
eroare sau neclaritate pentru a face corectile sau clarificrile necesare.

D1  
Pregãtire In K

SR EN ISO 9692-1:2004  
Tabel 2 pct. 2.8.1

NOTA:

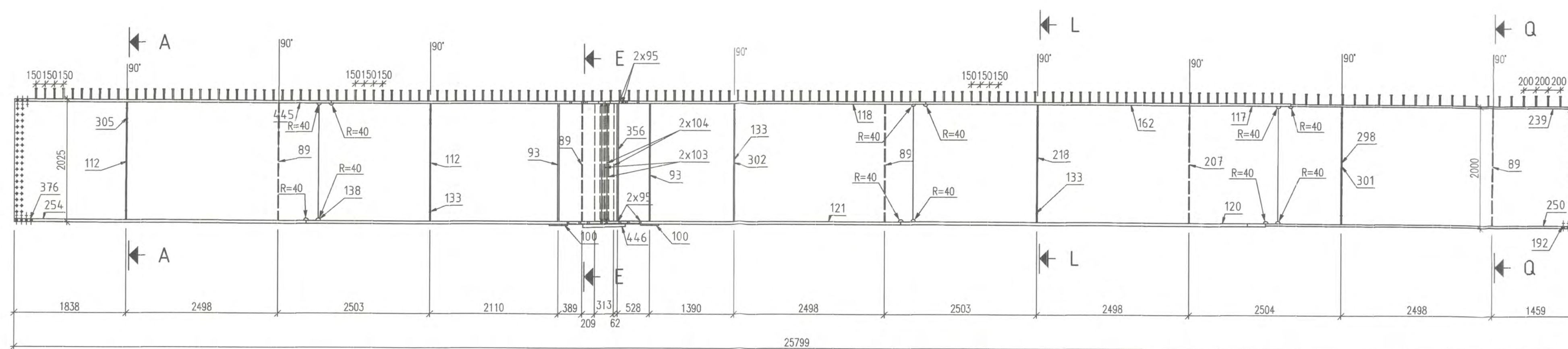
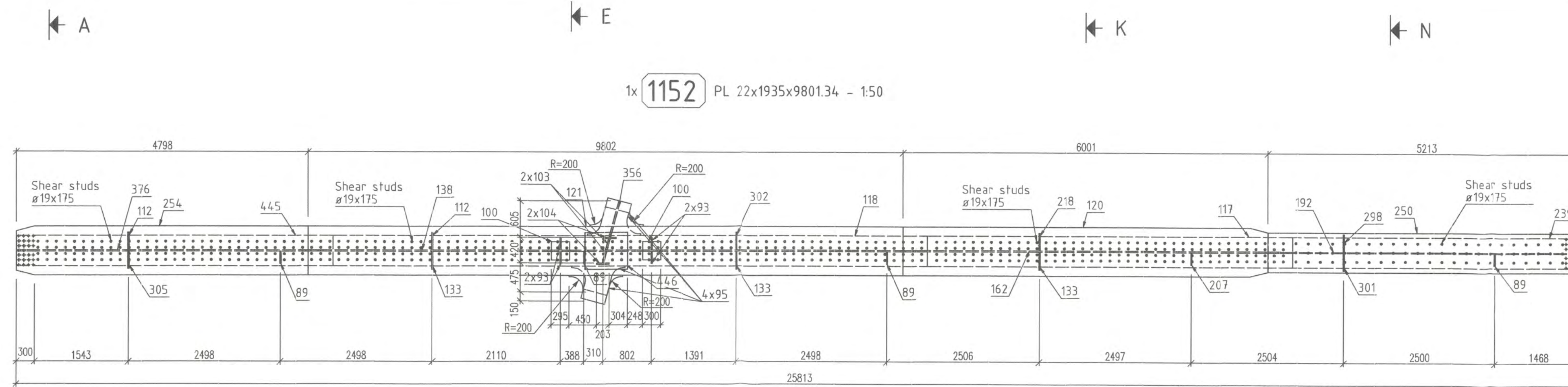
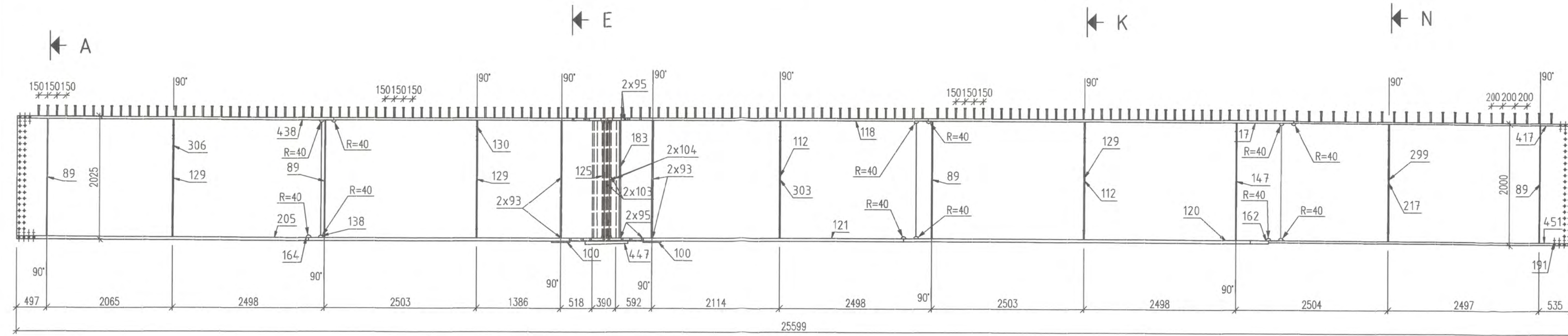
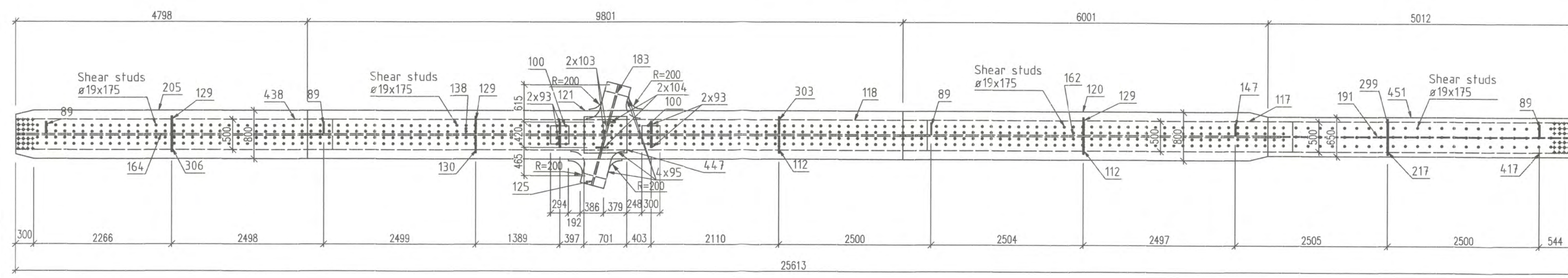
- Detalizarea imbinarilor dintre ansamble (din situ) se face in plansa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) la suprastructurii metalice se vor realiza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcãtuiesc suprastructura metalica.
- Greutãtile din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

CERINTE DE CALITATE TABLIER METALIC:

CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecina: CC2
- Categoria de serviciu: SC2
- Categoria de productie: PC2
- Clasa de executie: EXC3
- Clasa de ductilitate: DCL
- Tolerana la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - clasa de calitate S1
- Calitatea suprafeelor laitate: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2; SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente trãsate/certificate de verificare
- Asamblare: Tolerana functionala Clasa 2-EXC3
- Sudurile se vor realiza pe toata lungimea de contact intre elemente.
- Verificarea sudurilor se va face prin control cu ultrasunete.



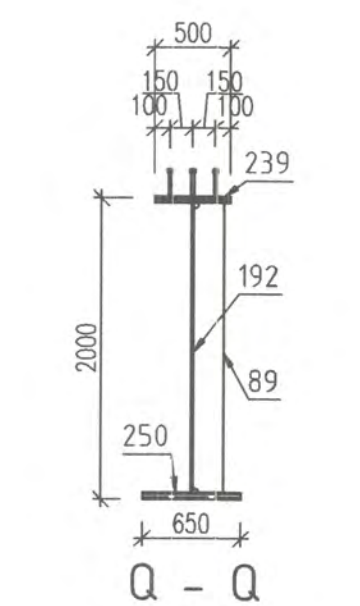
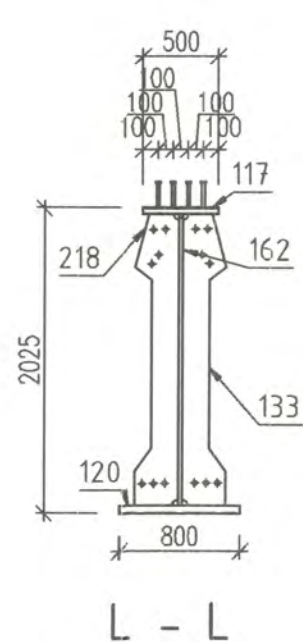
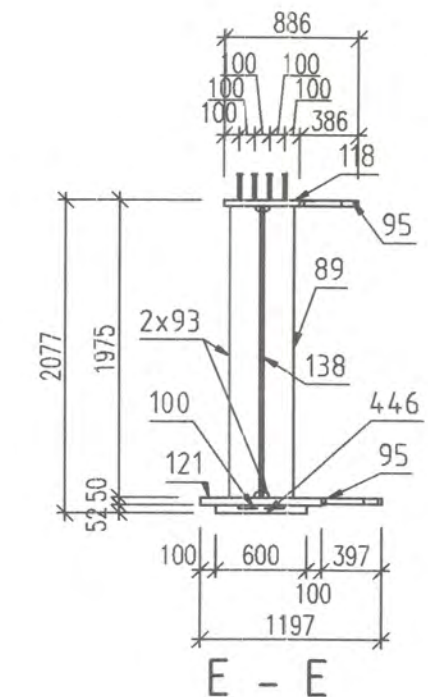
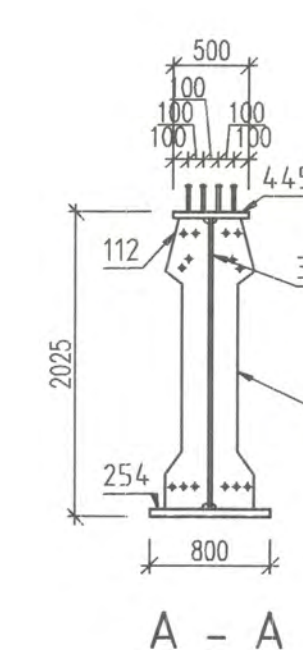
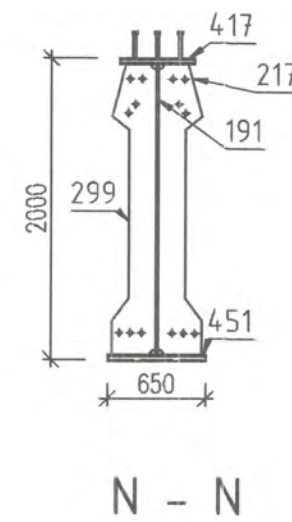
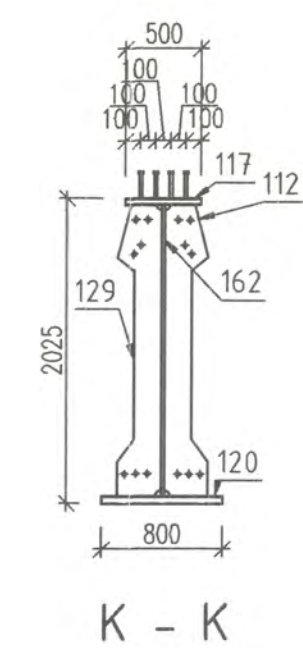
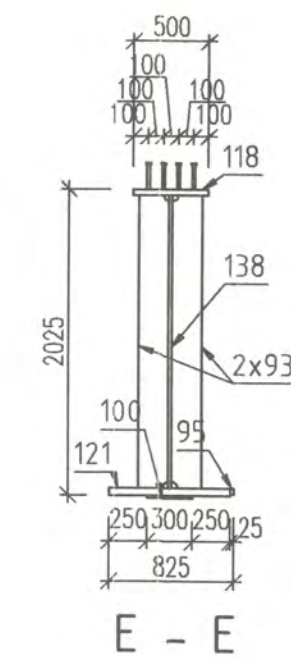
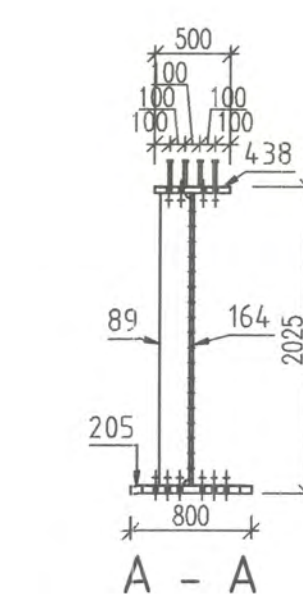


**CERINTE DE CALITATE  
CONECTORI METALICI**

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare



Mark	Quantity	Description	Length	Grade	Part weight	Total weigh
1151	1	PL 22x1935x9801.26				
138	1	PL 22x1935x9801.12	9801	S355	3273.38	3273.38
121	1	PL 800x50x9801.29	9801	S355	3077.61	3077.61
162	1	PL 22x1934.99x6005.65	6006	S355	2005.66	2005.66
120	1	PL 800x50x6001.03	6001	S355	1884.32	1884.32
164	1	PL 22x1935.01x5001.89	5002	S355	1670.64	1670.64
118	1	PL 500x40x9792.81	9793	S355	1537.47	1537.47
205	1	PL 800x50x4798.06	4798	S355	1506.59	1506.59
191	1	PL 15x1934.99x4807.66	4808	S355	1094.16	1094.16
117	1	PL 500x40x6005.41	6005	S355	942.85	942.85
451	1	PL 650x35x4998.22	4998	S355	892.62	892.62
438	1	PL 500x40x5201.75	5202	S355	816.67	816.67
417	1	PL 500x30x4607.89	4608	S355	542.58	542.58
183	1	PL 1933x25x629.73	630	S355	237.62	237.62
125	1	PL 1933x25x629.74	630	S355	237.61	237.61
447	1	PL 600x52x700	700	S355	151.66	151.66
95	4	PL 40x476.88x878.22	878	S355	87.21	348.82
103	2	PL 1933x25x202.38	202	S355	74.24	148.47
112	2	PL 15x290x1935	1935	S355	64.03	128.06
129	3	PL 15x290x1935	1935	S355	64.03	192.09
130	1	PL 15x290x1935	1935	S355	64.03	64.03
217	1	PL 15x290x1935	1935	S355	64.03	64.03
299	1	PL 15x290x1935	1935	S355	64.03	64.03
303	1	PL 15x290x1935	1935	S355	64.03	64.03
306	1	PL 15x290x1935	1935	S355	64.03	64.03
104	2	PL 20x200x1933	1933	S355	60.7	121.39
93	4	PL 20x200x1935	1935	S355	60.51	242.03
147	1	PL 12x200x1935	1935	S355	36.46	36.46
89	4	PL 12x200x1935	1935	S355	36.3	145.22
100	2	PL 20x300x300	300	S355	14.13	28.26
479	614	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	262.55
One assembly weight:					21844.96	21844.96
1152	1	PL 22x1935x9801.34				
138	1	PL 22x1935x9801.12	9801	S355	3273.38	3273.38
121	1	PL 800x50x9801.29	9801	S355	3077.61	3077.61
162	1	PL 22x1934.99x6005.65	6006	S355	2005.66	2005.66
120	1	PL 800x50x6001.03	6001	S355	1884.32	1884.32
376	1	PL 22x1935x5005.43	5005	S355	1671.21	1671.21
118	1	PL 500x40x9792.81	9793	S355	1537.47	1537.47
254	1	PL 800x50x4798.21	4798	S355	1506.64	1506.64
192	1	PL 15x1935.01x5008.01	5008	S355	1139.8	1139.8
117	1	PL 500x40x6005.41	6005	S355	942.85	942.85
250	1	PL 650x35x5198.34	5198	S355	928.36	928.36
445	1	PL 500x40x5205.43	5205	S355	817.25	817.25
239	1	PL 500x30.01x4808.14	4808	S355	566.26	566.26
356	1	PL 1933x25x629.73	630	S355	237.62	237.62
446	1	PL 600x52.32x700	700	S355	152.19	152.19
95	4	PL 40x476.88x878.22	878	S355	87.21	348.82
103	2	PL 1933x25x202.38	202	S355	74.24	148.47
112	2	PL 15x290x1935	1935	S355	64.03	128.06
133	3	PL 15x290x1935	1935	S355	64.03	192.09
305	1	PL 15x290x1935	1935	S355	64.03	64.03
302	1	PL 15x290x1935	1935	S355	64.03	64.03
218	1	PL 15x290x1935	1935	S355	64.03	64.03
298	1	PL 15x290x1935	1935	S355	64.03	64.03
301	1	PL 15x290x1935	1935	S355	64.03	64.03
104	2	PL 20x200x1933	1933	S355	60.7	121.39
93	4	PL 20x200x1935	1935	S355	60.51	242.03
207	1	PL 12x200x1935	1935	S355	36.38	36.38
89	4	PL 12x200x1935	1935	S355	36.3	145.22
100	2	PL 20x300x300	300	S355	14.13	28.26
479	617	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	263.83
One assembly weight:					21715.33	21715.33
Combined Total						43560.28

NOTA:

- Detalierea imbrăcărilor dintre ansamblu (din situ) se face în planșă: Schema de montaj Suprastructura metalică.
- Sudurile de la fața exterioră(vazută) a suprastructurii metalice se vor poliza la fața elementelor.
- Lungimea elementelor/pieselor sunt date interax, fără a ține cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcătuiesc suprastructura metalică.
- Greutățile din tabelul cu elementele/piesele reprezintă valorile NETE(piese debitate).

CERINTE DE CALITATE TABLIER METALIC

CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecință: CC2
- Categorie de servicii: SC2
- Categorie de producție: PC2
- Clasa de execuție: EXC3
- Clasa de durabilitate: DCL
- Toleranța la grosimi pentru table: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor table: EXC3 - domeniul 4
- Sudare: SR (EN 15614-2; SR EN 9692 - 1
- Verificarea sudurii: EXC3 - nivel C EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivel C
- Criterii de acceptare: EXC3 - nivel C calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finisate/certificate de verificare
- Asamblare: Toleranța funcționala Clasa 2-EXC3
- Teste: Teste utilizate în pu putându-se completa cu acceptul sudurilor de colț
- Sudurile se vor realiza pe distanțe lungimea de contact între ele.
- Verificarea sudurilor se va face prin control cu ultrasunete.

Nota: Această planșă este proprietate intelectuală a SC NV CONSTRUCT SRL. Reproducerea acestei planșe este interzisă fără acord în scris al SC NV CONSTRUCT SRL.

**BENEFICIAR :**

 **COMPANIA NAȚIONALĂ DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE S.A.**

Acționar: **Bd. Clinică Golești 38, sector 1, București, România, 010673**  
Tel.: 021.264.32.00 / Fax: 021.312.09.84  
E-mail: [office@andnet.ro](mailto:office@andnet.ro)

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.8  
C.U.I: RO18639415,  
Nr.Reg. Com:J12/1520/2006



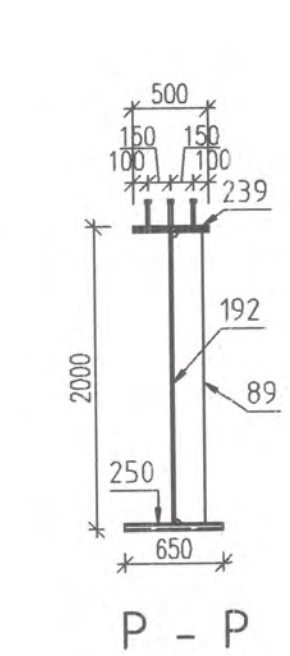
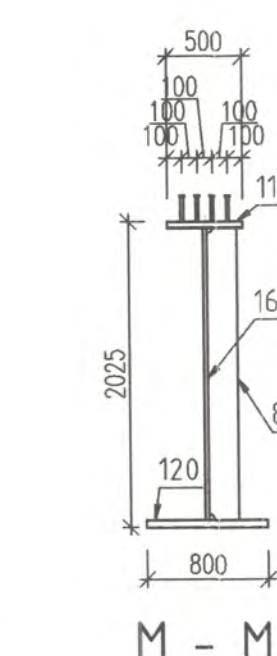
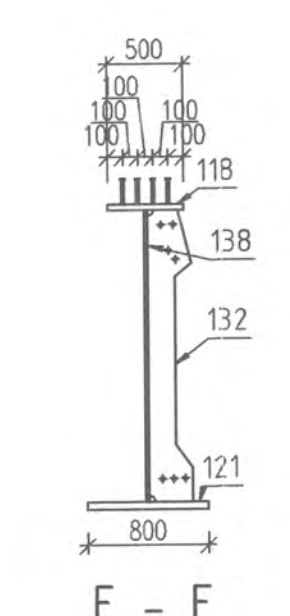
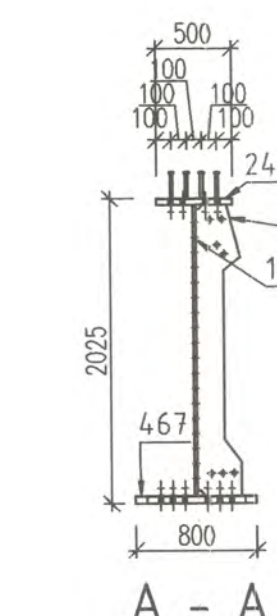
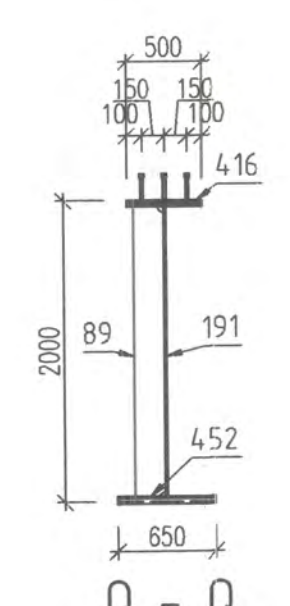
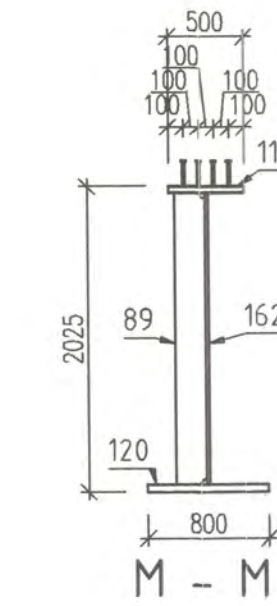
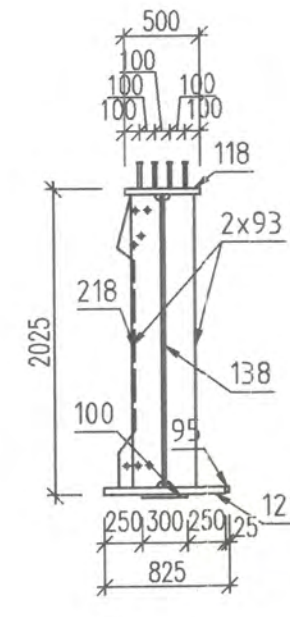
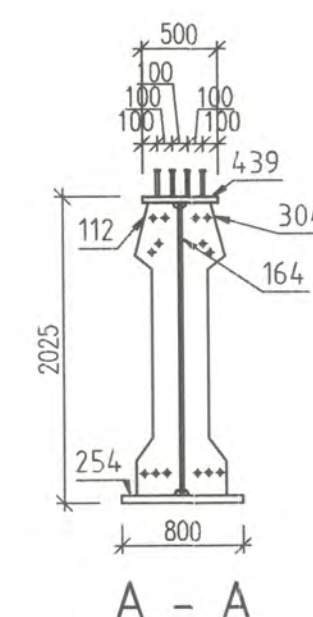
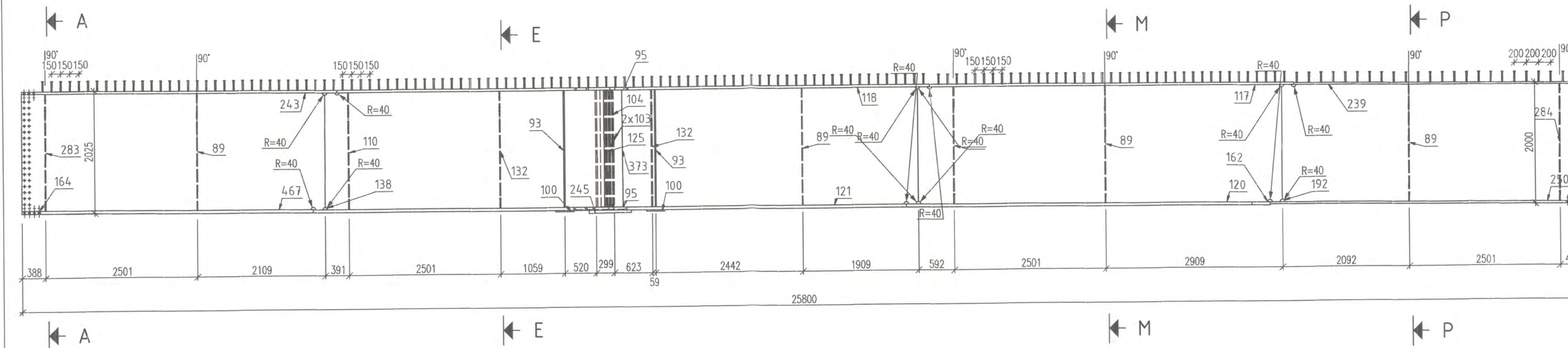
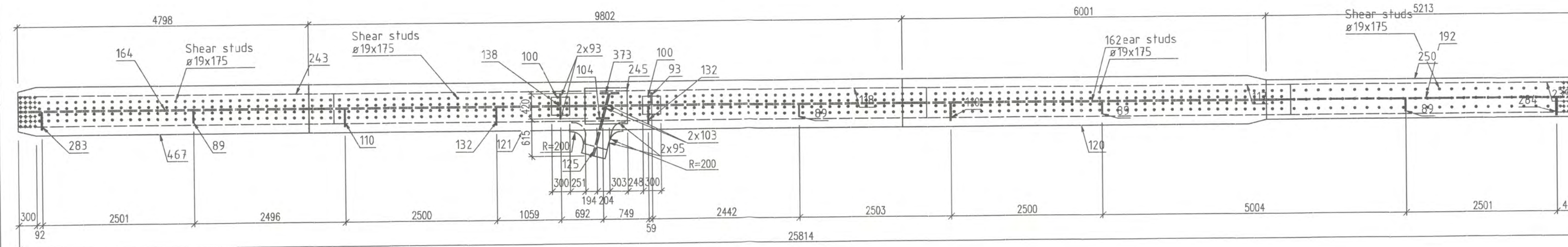
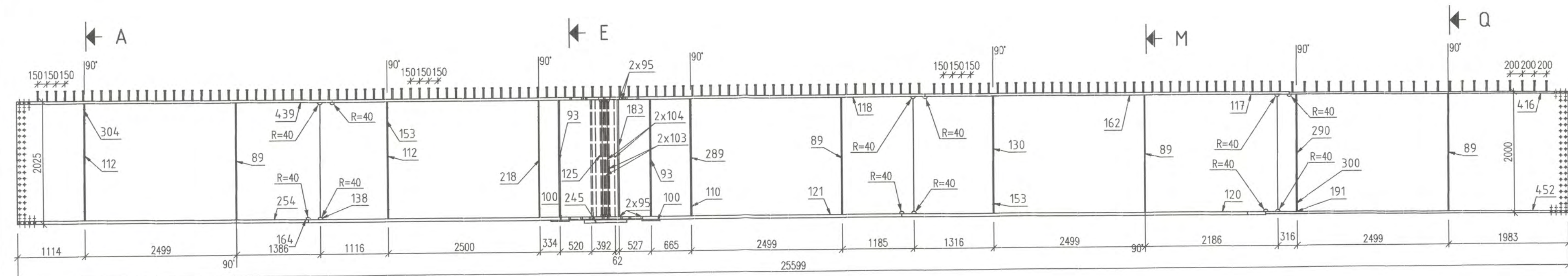
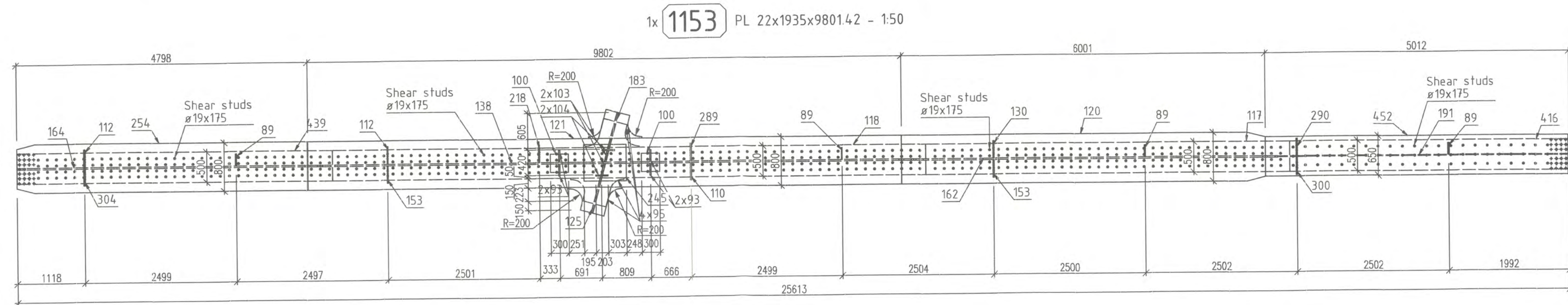
nv construct  
INFRASTRUCTURE DESIGN

TITLU PROIECT:	"Pasaj superior pe DN2, peste CF la Roman, Km 332+961"
FAZA: P.T.E	

7.	Coord. proiect:	ing. Dan SIMA
	Coord. adj. proiect:	ing. Mircea BOEAR
	Proiectat:	ing. Dan TOMIAGA
	Verificat:	Ing. Valeriu TOMIAGA

Titlu proiect: 550/2021 Scara: 1:50 Data:		TITLU PLANSA:  Confecție metalică Plan ansamblu						
		PROIECT	ALTERNATIVĂ	FAZA	OBIECT	SUBIECT	NUMAR	REZOLUȚIE



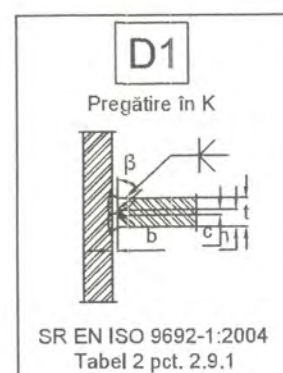


CERINTE DE CALITATE  
CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a procedea la executia si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectile sau clarificarile necesare.



NOTA:


- Detalierea imbinarilor dintre ansamble (din situ) se face in planşa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora (avizata) a suprastructurii metalice se vor realiza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcatuiesc suprastructura metalica.
- Greutatile din tabelul cu elementele/piesele reprezinta valorile NETE (piese debitate).

CERINTE DE CALITATE TABLIERI METALICI:

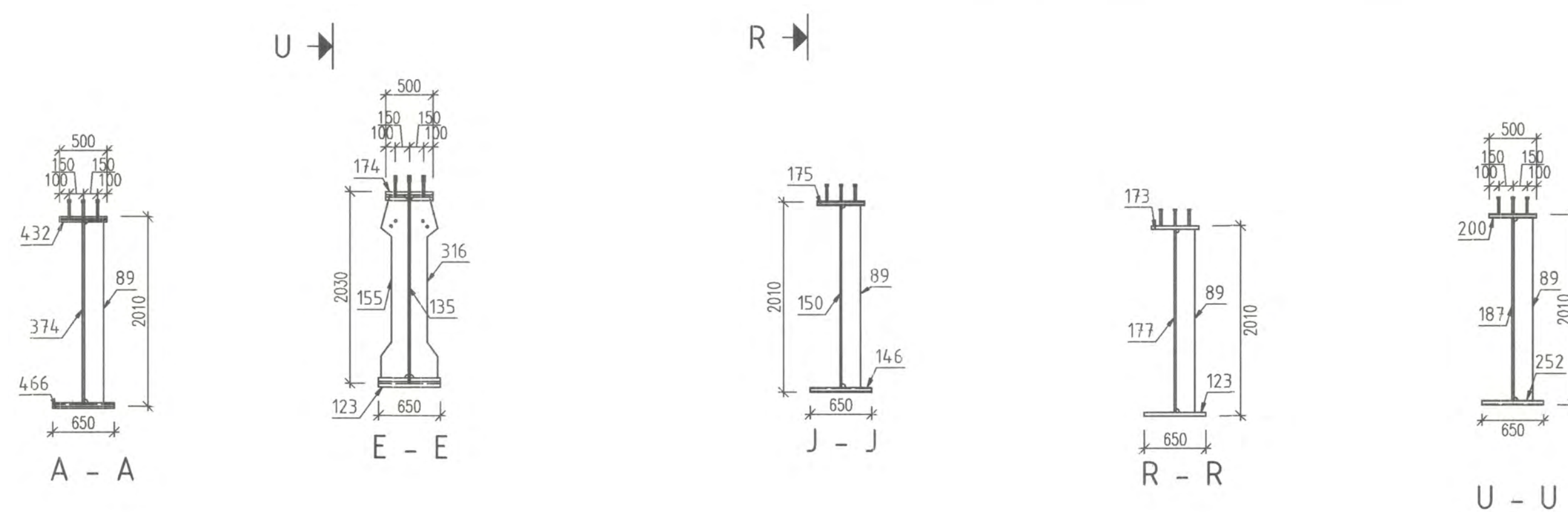
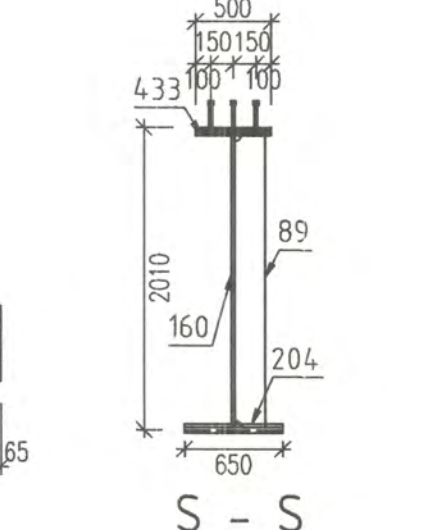
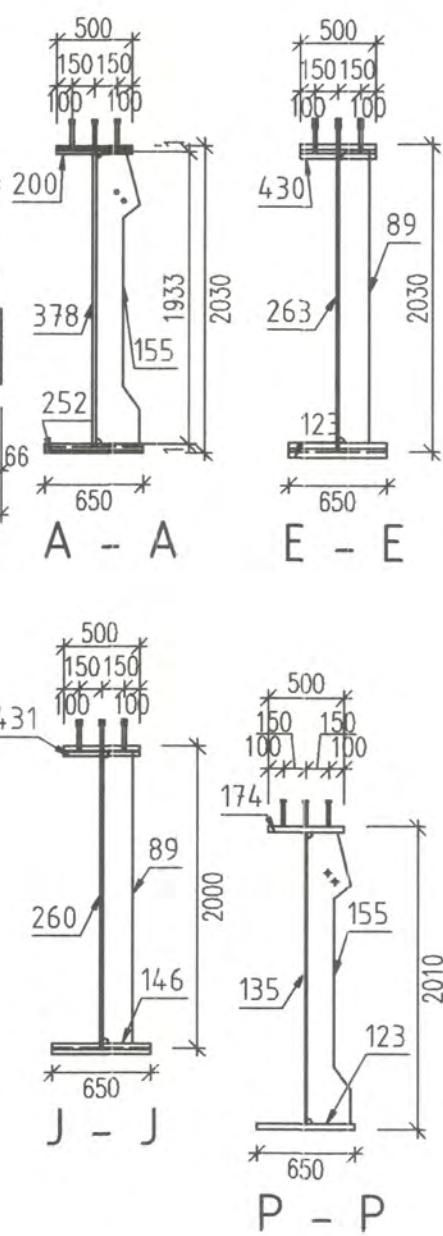
CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecinta: CC2
- Categoria de serviciu: SC2
- Categoria de productie: PC2
- Clasa de executie: EXC3
- Clasa de ductilitate: DC1
- Tolerante la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - clasa de calitate S1
- Calitatea suprafetelor totale: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2, SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1, EN ISO 15613
- Coordonarea sudurii: EXC3 - nivel C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finisate/certificate de verificare
- Asamblare: Toleranta functionala Clasa 2-EXC3
- Toate sudurile vor fi cu patrundere completa cu exceptia sudurilor de colt.
- Sudurile se vor realiza pe toata lungimea de contact intre elemente.
- Verificarea sudurilor se va face prin control cu ultrasunete.



BENEFICIAR:	COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.	PROIECTAT:	S.C. NV CONSTRUCT S.R.L. Cluj-Napoca, Str. Arges, nr.28, ap.8 C.U.I. RO18639415 Nr.Reg. Com.1/21520/2006		TITLU PROIECT:	"Pasaj superior pe DN2, peste CF la Roman, Km 332+961"	Coord. proiect:	ing. Dan SIMA	Numar Proiect:	550/2021	TITLU PLANSA:	Confecție metalică Plan ansamblu					
							Coord. ad. proiect:	ing. Mircea BOBAR	Scara:	1:50							
Adresa B&B Dinu: Calea 31, sector 1, Bucuresti, Romania, 01073 Tel: 021.264.32.30 Fax: 021.312.69.84 Email: of@nvconstruct.ro	PROIECTAT:	S.C. NV CONSTRUCT S.R.L.	Cluj-Napoca, Str. Arges, nr.28, ap.8 C.U.I. RO18639415 Nr.Reg. Com.1/21520/2006	TITLU PROIECT:	"Pasaj superior pe DN2, peste CF la Roman, Km 332+961"	Verificat:	ing. Valeria TONU	Data:	550/2021	PROIECT	ALTERNATIVA	FAZA	PETA	OBJECT	SUBIECT	NUMAR	REVIZ
							ing. Valeria TONU	550/2021	A1	P1A	POB	PD	810				





- Detalierea imbinarilor dintre ansamble (din situ) se face in plansa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) a suprastructurii metalice se vor poliza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcatuiesc suprastructura metalica.
- Greutatele din tabelul cu elementele/pieseile reprezinta valorile NETE(piesele debitate).

CLASA OTELULUI STRUCTURAL: S355 J2+N

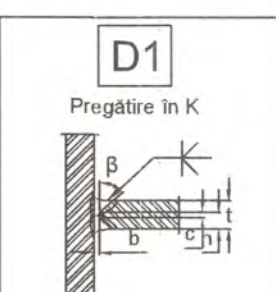
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- Categoriya de servicii: C02
- Categoriya de produse: PC2
- Clasa de excecute: EXC3
- Clasa de durabilitate: DC1
- Toleranță la grosimi pentru labă: EXC3 - Clasa A
- Proprietăți speciale: EXC4 - clasa de calitate S1
- Baza suprafețelor tale: EXC4 - clasa de calitate S1
- Durată: SR EN 3834 - 2, SR EN 1592 - 1
- Verificarea surdin: EXC4 - EN ISO 15854 - 1
- Verificarea surdin: EXC4 - EN ISO 15854 - 1 EN ISO 15613
- Coordonarea surdin: EXC3 - nivelul C
- Criterele de acceptare: EXC3 - nivel de calitate EN ISO 5817 2015
- Identificare: EXC3 - elemente fizice/identificative de verificare
- Toleranță: Toleranță fizică Clasa 2-EXC3
- Tărie surdinilor vor fi putându-se completa cu excepția surdinilor de coit.
- Surdinile se vor realiza pe toată lungimea de contact între elementul de



Qtel: S325 I2+C450

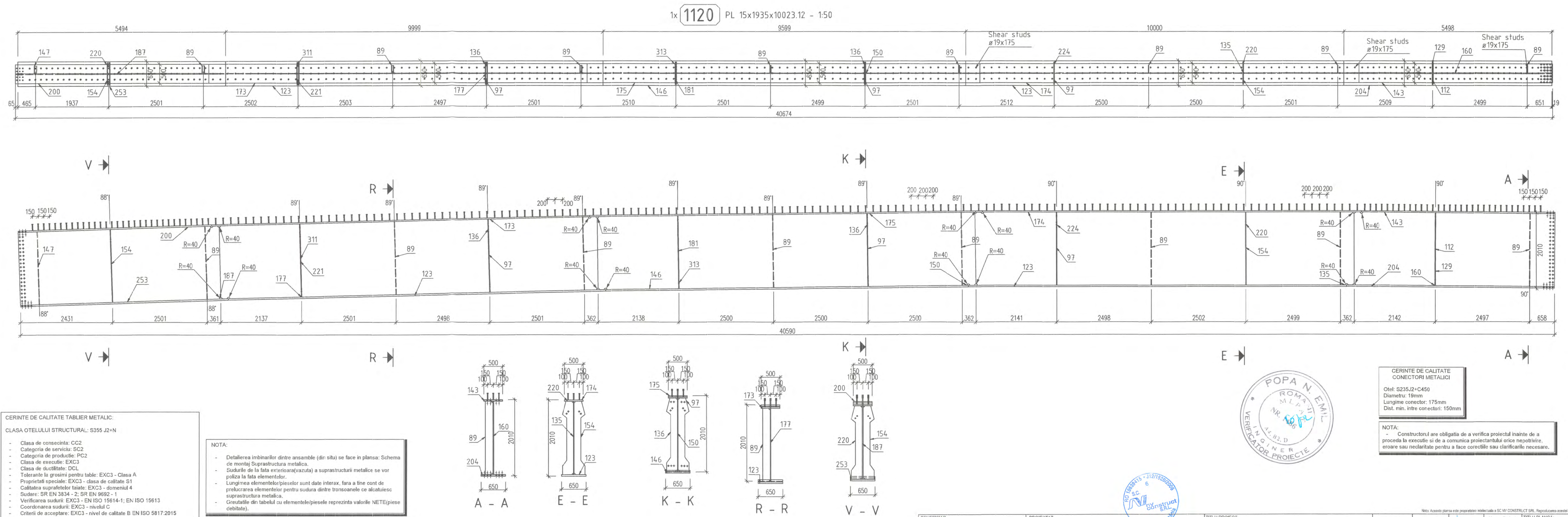
Otel: 323552+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.



SR EN ISO 9692-1:2004  
Tabel 2 pct. 2.9.1



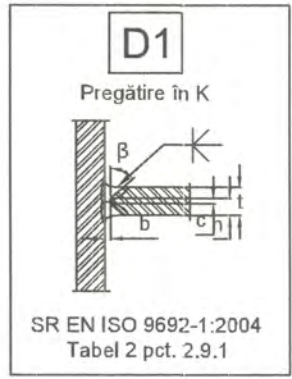


NOTA:

- Detalierea imbinarilor dintre ansamble (dirij situ) se face in planşa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exterior(a)zavuta) a suprastructurii metalice se vor poza la fata elementelor
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcătuiesc suprastructura metalica.
- Greutatele din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

CERINTE DE CALITATE  
CONECTORI METALICI

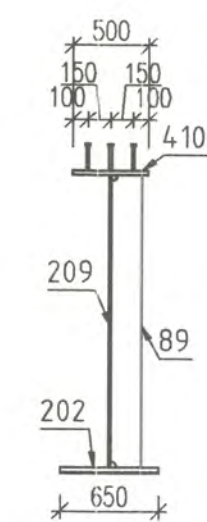
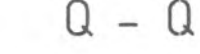
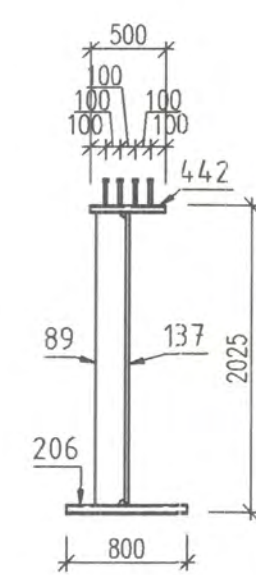
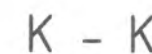
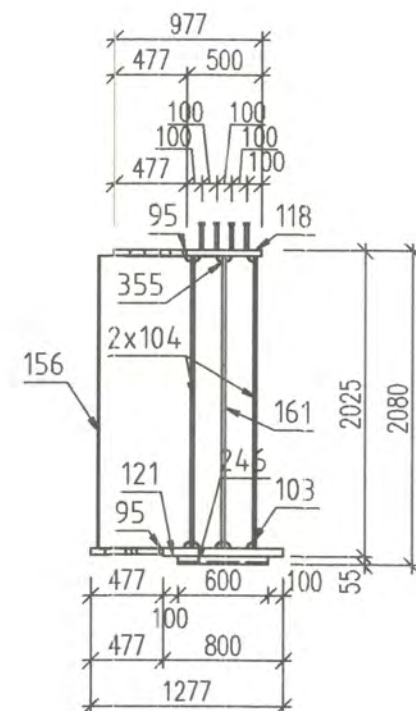
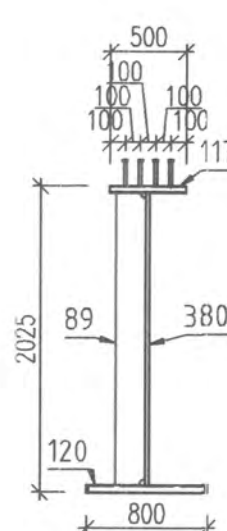
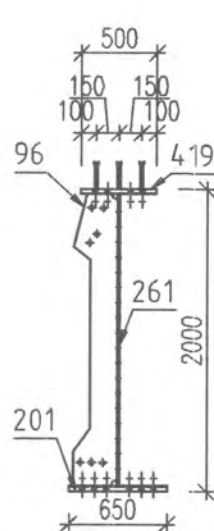
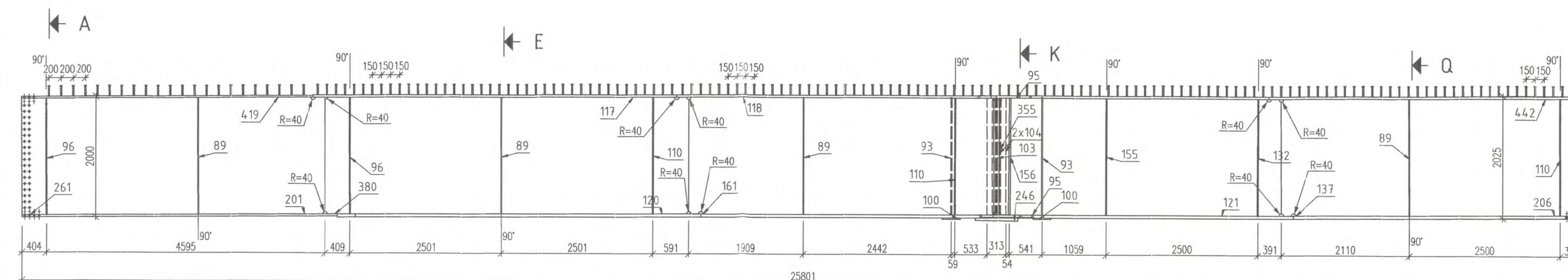
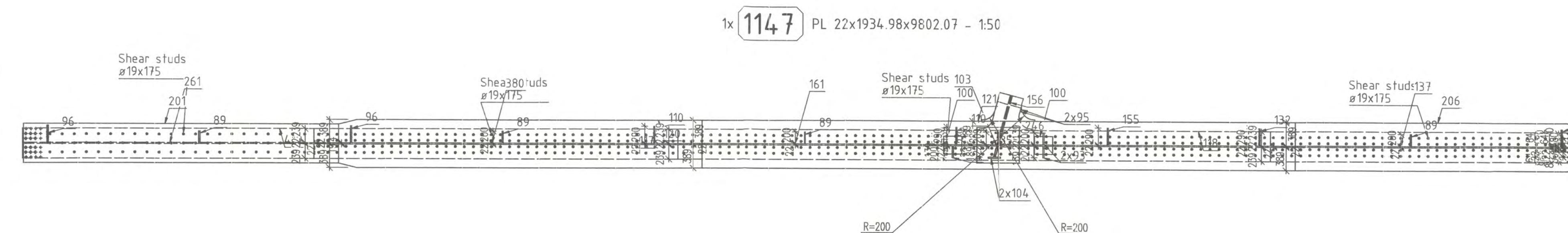
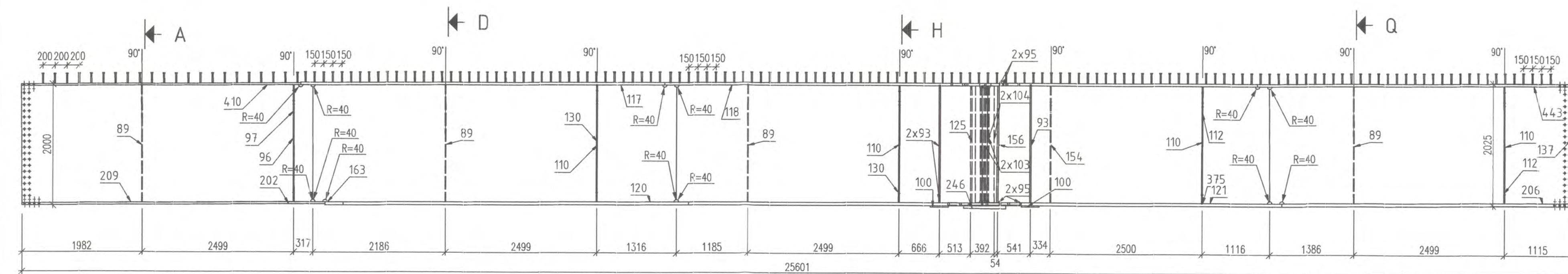
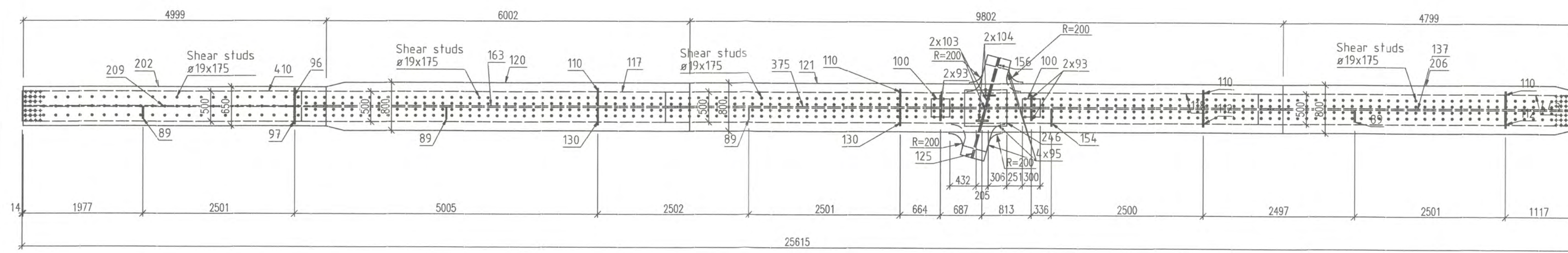
Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm



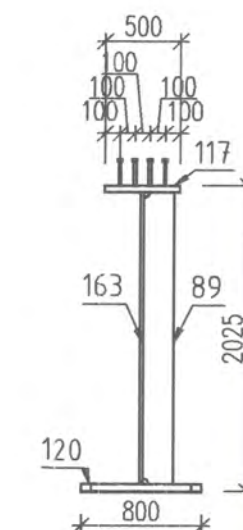


Notă: Așaput toate proiectele realizate la SC M CONSTRUCT SRL, Reprezentanți asociații pentru interfața cu SC M CONSTRUCT SRL																	
Coord. proiect:	ing. Dan SIMA	Numar Proiect:	TITLU PLANȘA:														
Coord. șef proiect:	ing. MIHAIL BOBAR	Scara:	Confecție metalică Plan ansamblu														
Proiectat:	ing. DAN TOMOIAGA	1:50															
Verificat:	ing. Valeria TOMU	Data:															
		Jun. 2024	550/2021	A1	PTE	POD	PD	613	R	1							

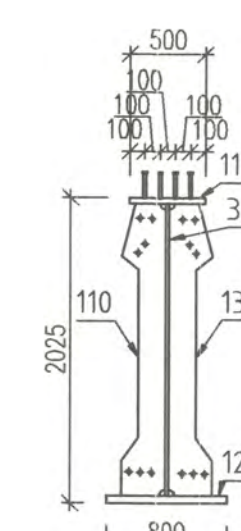
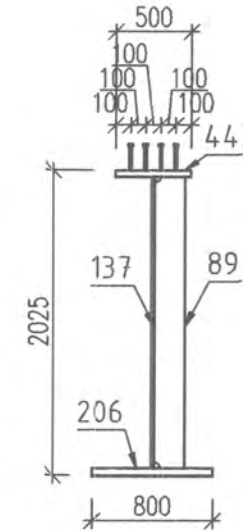




A - A



D - D


$$\text{H} - \text{H}$$


Q - Q

Mark	Quantity	Description	Length	Grade	Part weight	Total weight
114.6	1	PL 22x1934.98x9801.97				
375	1	PL 22x1934.98x9801.97	9802	S355	3273.64	3273.64
121	1	PL 800x50x9801.29	9801	S355	3077.61	3077.61
163	1	PL 22x1934.99x6006.03	6006	S355	2005.79	2005.79
120	1	PL 800x50x6001.03	6001	S355	1884.32	1884.32
137	1	PL 22x1935x5002	5002	S355	1670.67	1670.67
118	1	PL 500x40x9792.81	9793	S355	1537.47	1537.47
206	1	PL 800x50x4798.54	4799	S355	1506.74	1506.74
209	1	PL 15x1934.99x4808	4808	S355	1094.24	1094.24
117	1	PL 500x40x6005.41	6005	S355	942.85	942.85
202	1	PL 650x35x4998.44	4998	S355	892.66	892.66
44.3	1	PL 500x40x5202.2	5202	S355	816.75	816.75
410	1	PL 500x30.01x4608.12	4608	S355	542.71	542.71
125	1	PL 1933x25x629.74	630	S355	237.61	237.61
156	1	PL 1933x25x629.74	630	S355	237.61	237.61
246	1	PL 600x54.64x700	700	S355	156.02	156.02
95	4	PL 40x476.88x878.22	878	S355	87.21	348.82
103	2	PL 1933x25x202.38	202	S355	74.24	148.47
96	1	PL 15x290x1935	1935	S355	64.03	64.03
97	1	PL 15x290x1935	1935	S355	64.03	64.03
110	4	PL 15x290x1935	1935	S355	64.03	256.13
112	2	PL 15x290x1935	1935	S355	64.03	128.06
130	2	PL 15x290x1935	1935	S355	64.03	128.06
154	1	PL 15x290x1935	1935	S355	64.03	64.03
104	2	PL 20x200x1933	1933	S355	60.7	121.39
93	4	PL 20x200x1935	1935	S355	60.51	242.03
89	4	PL 12x200x1935	1935	S355	36.3	145.22
100	2	PL 20x300x300	300	S355	14.13	28.26
4.79	618	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	264.26
One assembly weight:					21879.48	21879.48
114.7	1	PL 22x1934.98x9802.07				
161	1	PL 22x1934.98x9802.07	9802	S355	3273.68	3273.68
121	1	PL 800x50x9801.29	9801	S355	3077.61	3077.61
380	1	PL 22x1935x6005.96	6006	S355	2005.79	2005.79
120	1	PL 800x50x6001.03	6001	S355	1884.32	1884.32
137	1	PL 22x1935x5002	5002	S355	1670.67	1670.67
118	1	PL 500x40x9792.81	9793	S355	1537.47	1537.47
206	1	PL 800x50x4798.54	4799	S355	1506.74	1506.74
261	1	PL 15x1934.99x5008.47	5008	S355	1139.96	1139.96
117	1	PL 500x40x6005.41	6005	S355	942.85	942.85
201	1	PL 650x35.54x198.58	5199	S355	928.4	928.4
4.42	1	PL 500x40x5202.19	5202	S355	816.74	816.74
4.19	1	PL 500x30x4808.47	4808	S355	566.2	566.2
156	1	PL 1933x25x629.74	630	S355	237.61	237.61
246	1	PL 600x54.64x700	700	S355	156.02	156.02
95	2	PL 40x476.88x878.22	878	S355	87.21	174.41
355	1	PL 1933x25x202.38	202	S355	74.24	74.24
103	1	PL 1933x25x202.38	202	S355	74.24	74.24
96	2	PL 15x290x1935	1935	S355	64.03	128.06
110	3	PL 15x290x1935	1935	S355	64.03	192.09
132	1	PL 15x290x1935	1935	S355	64.03	64.03
155	1	PL 15x290x1935	1935	S355	64.03	64.03

NOTA:

- Detalierea imbinarilor dintre ansamble (din sit) se face in plansa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) a suprastructurii metalice se vor poliza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrare elementelor pentru sudura dintre tronsoanele ce alcătuiesc suprastructura metalica.
- Greutatele din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

**CERINTE DE CALITATE TABLIER METALIC:**

**CLASA OTELULUI STRUCTURAL: S355 J2+N**

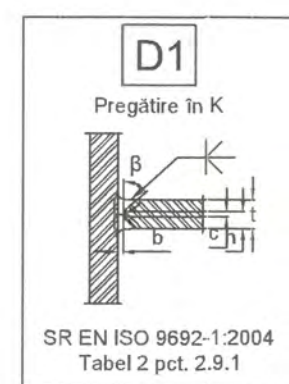
- Clasa de consecinta: CC2
- Categoria de servicii: SC2
- Categoria de productie: PC2
- Clasa de executie: EXC3
- Clasa de ductilitate: DCL
- Toleranta la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - Clasa de calitate S1
- Calitatea suprafetelor table: EXC3 - Clasa A
- Suridare: SR EN 3834 - 2, SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1, EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finale/certificate de verificare
- Astarbare: Toleranta functionala Clasa 2-EXC3
- Teste sudurilor vor fi sa parundere completa cu exceptia sudurilor de colt.
- Sudurile vor fi realizate pe toate lungimile de contact intre elemente.
- Verificarea sudurilor vor fi sa parundere completa cu exceptia sudurilor de colt.

CERINTE DE CALITATE  
CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

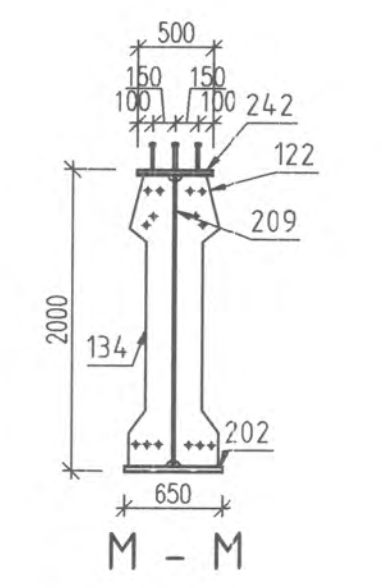
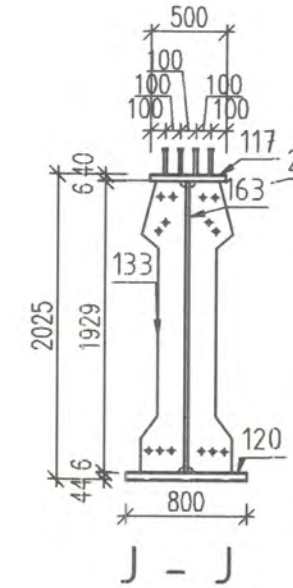
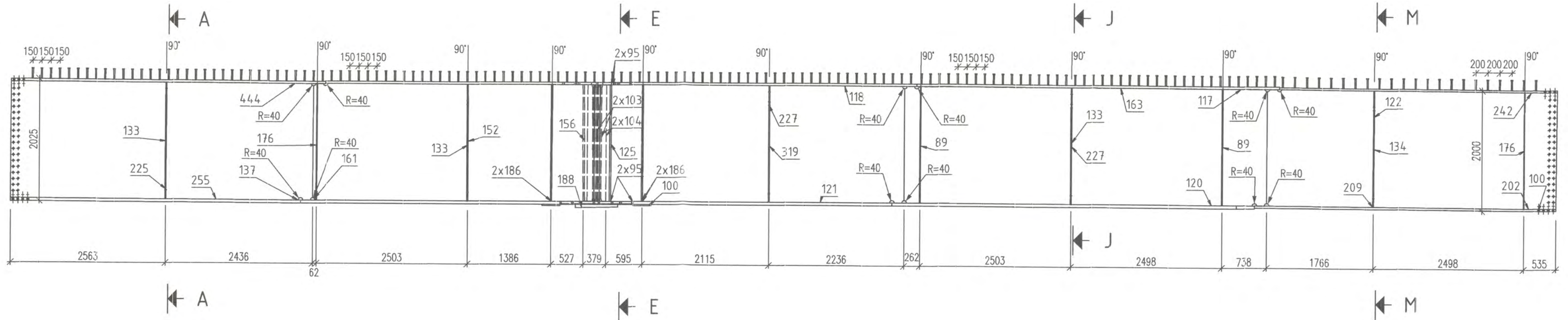
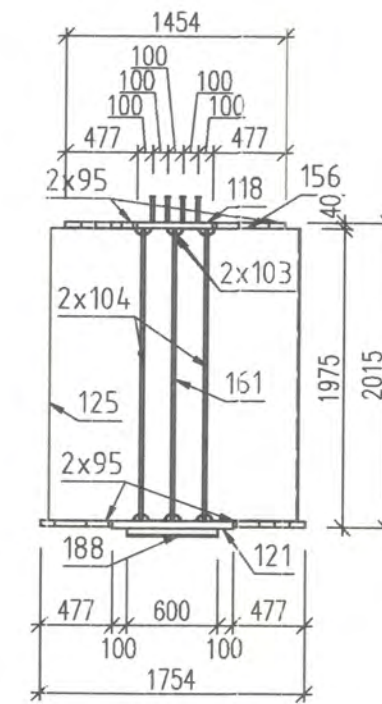
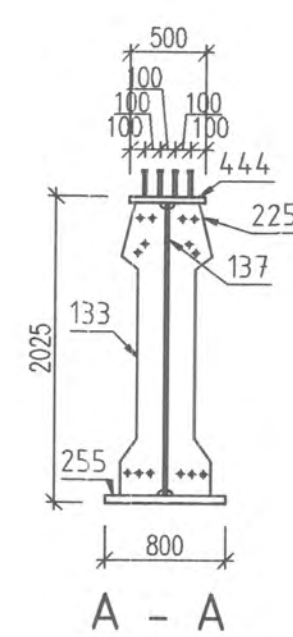
NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.

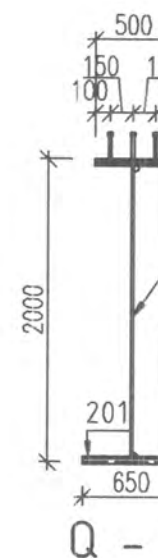
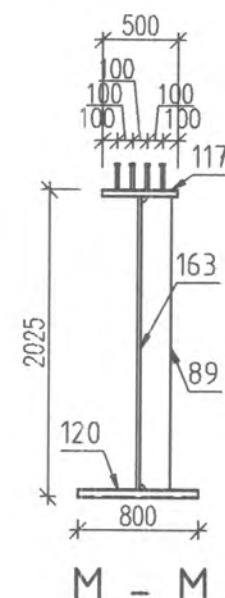
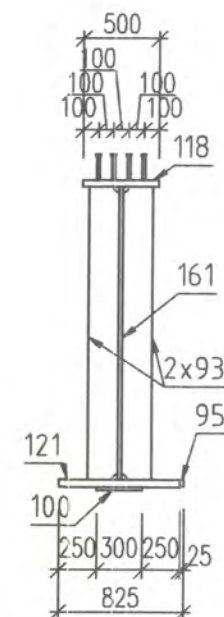
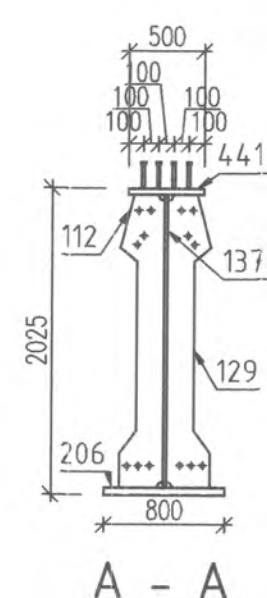
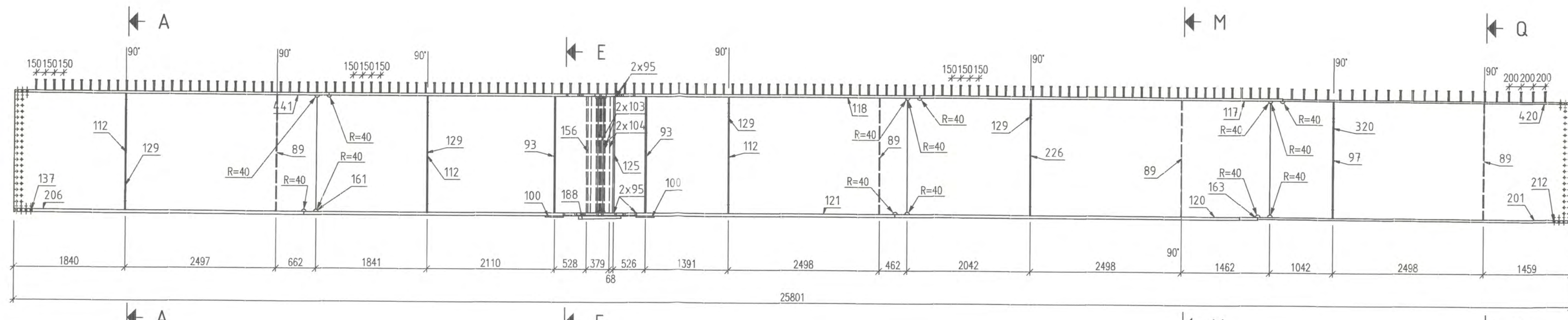




Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes dimensions for various parts of the deck, including the width (4798 mm), height (6002 mm), and reinforcement details (e.g., 2x104, 2x103, 2x186, 2x106, 2x104, 2x103, 2x186, 2x106, 2x104, 2x103, 2x186, 2x106). It also shows the location of shear studs (ø19x175) and the reinforcement layout for the deck and the central pier area.



Technical drawing of a reinforced concrete beam with a central joint. The drawing shows the beam's profile with reinforcement bars (dashed lines) and stirrups (solid lines). Key dimensions include a total length of 5199 units, a central joint width of 4796 units, and various reinforcement details like "Shear studs ø19x175" and "R=200". The drawing is divided into sections with specific dimensions and reinforcement specifications.



<p>NOTA:</p> <ul style="list-style-type: none"> <li>- Detalierea imbinarilor dintre ansamble (din situ) se face in plansa; Schema de montaj Suprastructura metalica.</li> <li>- Sudurile de la fata exteriora(vaizuta) a suprastructurii metalice se vor poliza la fata elementelor.</li> <li>- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcatusesc suprastructura metalica.</li> <li>- Greutatele din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).</li> </ul>
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**CERINTE DE CALITATE  
CONECTORI METALICI**

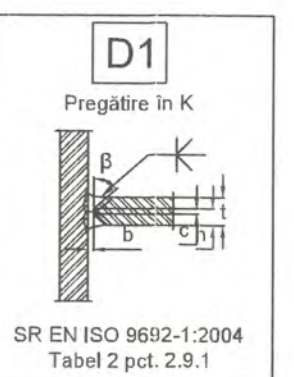
Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. între conectori: 150mm

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.

CERINTE DE CALITATE TABLIER METALIC:

- Clasa de consecință: C02
- Categorie de servicii: SC2
- Categorie de producție: PC2
- Clasa de executie: EC2
- Clasa de durabilitate: DCL
- Toleranța la grosimi pentru talie: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - nivel de calitate 5
- Calitatea suprafețelor taliei: EXC3 - domeniu 4
- Sudurii: SR EN 3834 - 2 - SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivel 1
- Criterii de acceptare: EXC3 - nivel de calitate 5
- Identificarea: EXC3 - elemente finite/acceptate EN ISO 5817:2015
- Asamblare: Toleranța funcțională Clasa 2-EXC3
- Tăieturi sudurii vor fi putându-se completa cu elemente sudurite de colț.
- Tăieturile vor fi realizate în funcție de dimensiunile elementelor.
- Verificarea sudurilor se va face prin control cu ultrasunete.



**BENEFICIAR :**



 **COMPANIA NAȚIONALĂ DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE SA**

Adresa: Bldul Dincu Galescu 38, sector 1, București, România, 010873  
Tel.: 021.264.32.00 / Fax: 021.312.69.84  
E-mail: [office@undnet.ro](mailto:office@undnet.ro)

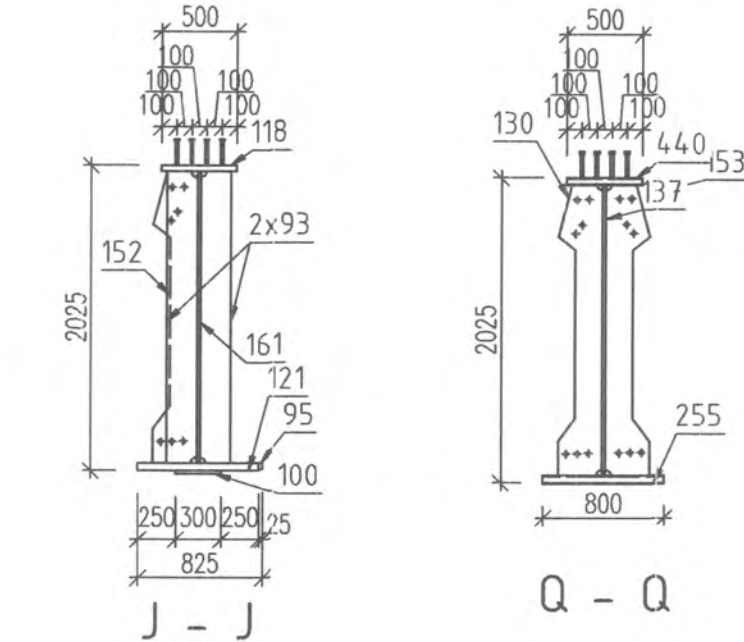
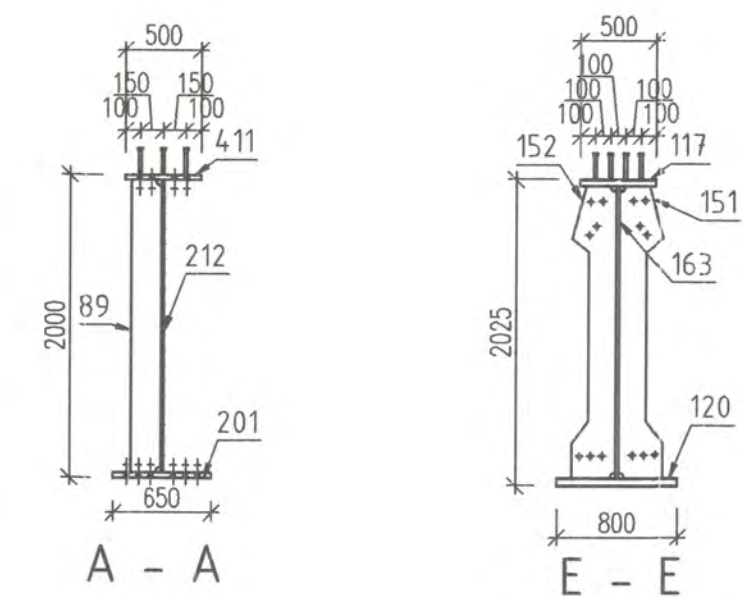
PROIECTAT:	S.C. NV CONSTRUCT S.R.L.
	Cluj-Napoca, Str. Arges, nr.2
	C.U.I: RO18639415,
	Nr.Reg. Com.J12/1520/2006



TITLU PROIECT:	"Pasaj superior pe DN2, peste CF la Roman Km 332+961"
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<small>Note: Accurate plans and properties indicated with SC M CONSTRUCT SRL. Reproduced accurate plans and information for accurate with SC M CONSTRUCT SRL.</small>											
Coord. project:	Ing. Dan SIMA		TITLU PLANSA:								
Coord. adj. proiect:	Ing. Mircea BOBAR		Confecție metalică								
Proiectat:	Ing. Dan TOMOAGA		Plan ansamblu								
Verificat:	Ing. Valeria TONU		Data:								
			10.2024	PROIECT	ALTEHNICA	FAZA	OBIECT	SUBIECT	NUMAR	REVIZIA	
			550/2021	1.1	DTF	000	00	000	0.1		





NOTA:

- Detalierea imbinarilor dintre ansamble (din situ) se face in plansa: Schema de montaj Suprastructura metalica.
- Sudurii de la fata exteriora(avizata) a suprastructurii metalice se vor realiza la fata exteriora.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcătuiesc suprastructura metalica.
- Gratuitate din tabelul cu elementele/piesele reprezinta valorile NETE(piese debitate).

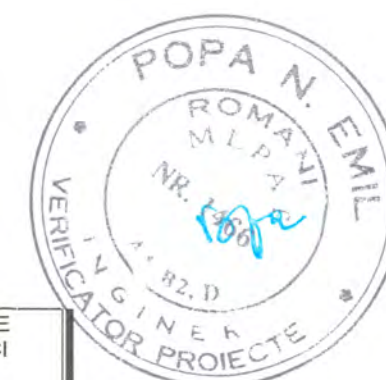
CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecință: CC2
- Categoria de servicii: C2
- Categoria de producție: PC2
- Clasa de execuție: EXC3
- Clasa de durabilitate: DCL
- Toleranță la grosimi pentru table: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor tăiate: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2; SR EN 8962 - 1
- Verificarea surselor: EN ISO 15614-1; EN ISO 15613
- Coordonarea surtelor: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente însoțite/certificate de verificare
- Asemblare: Toleranța funcțională Clasa 2-EXC3
- Tălele sudurilor vor se pune în funcție completă cu acceptarea surselor și
- Sudurile se vor realiza cu plăci lungimea de contact între elemente
- Verificarea sudurilor se va face prin control cu ultrasunete.



NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare



CNAR

COMPANIA NATIONALA DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE S.A.

Adresa B&M Oficiu Gidreasa 38, sector 1, Bucuresti, Romania, 010373  
Tel: 021.264.24.100 | Fax: 021.352.09.84  
E-mail: of@cnar.ro

PROIECT:

S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.8  
CUI: RO18639415  
Nr.Reg. Com J17/15202/2006

nv construct

infrastructura rutiera

TITLU PROIECT:

"Pasaj superior pe DN2, peste CF la Roman,  
Km 332+961"

FAZA: P.T.E.

Coord. proiect:

ing. Dan SIMA

Coord. arh. proiect:

ing. Mircea BOBAR

Proiectat:

ing. Daniela TOMA

Verificat:

ing. Valeria TONU

Numar Proiect:

590/2021

Scara:

1:50

Data:

15.05.2021

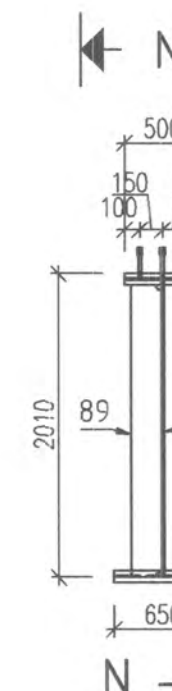
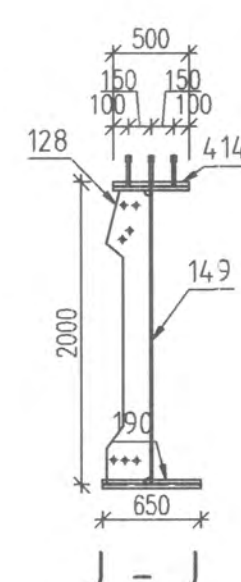
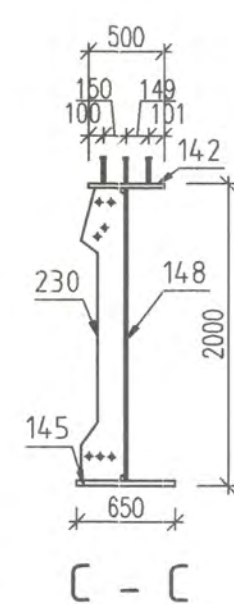
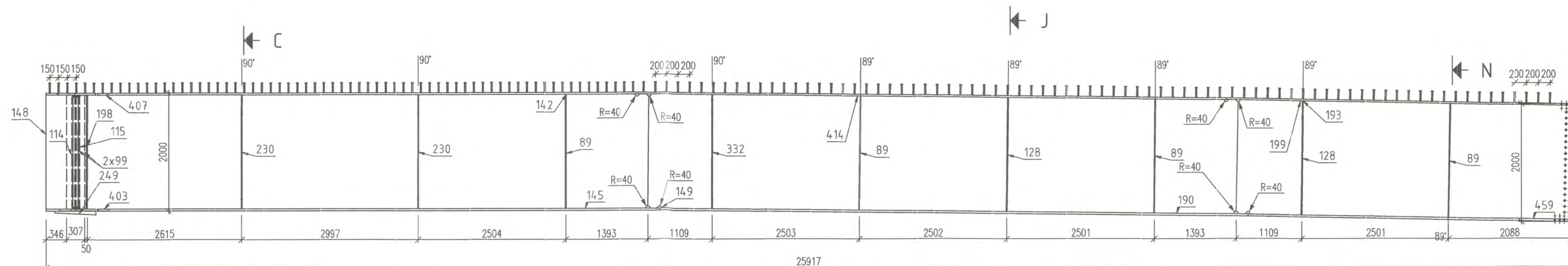
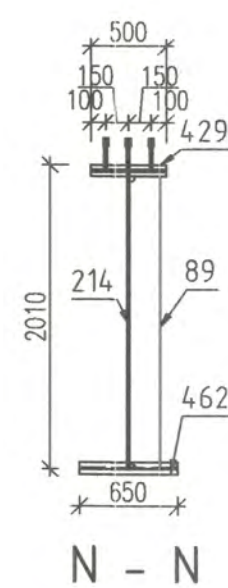
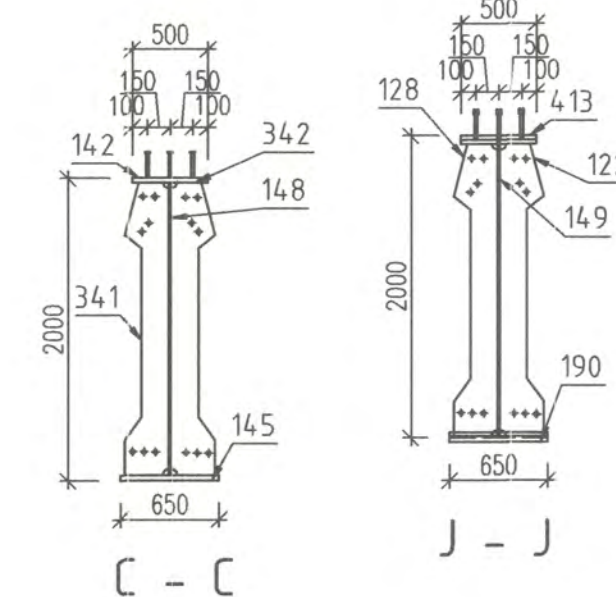
TITLU PLANSA:

Confecție metalica  
Plan ansamblu

	PROIECT	INTENȚIUNĂ	FAZA	OBJECT	SUBIECT	NUMAR	REVISI
lan. 2021	590/2021	A1	PTE	POD	PO	616	R 1

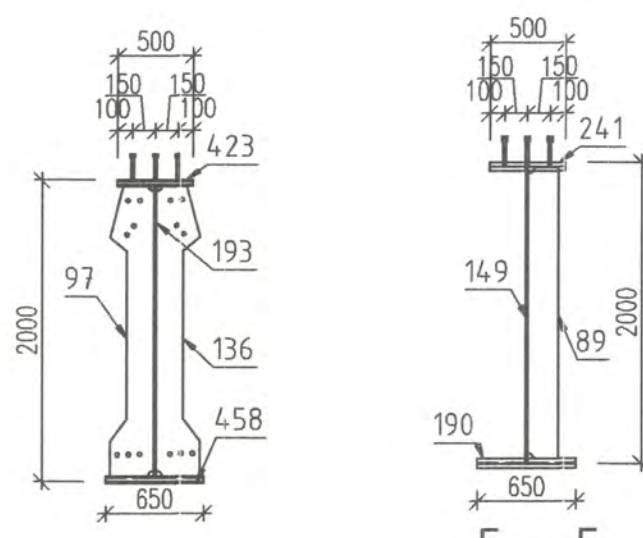
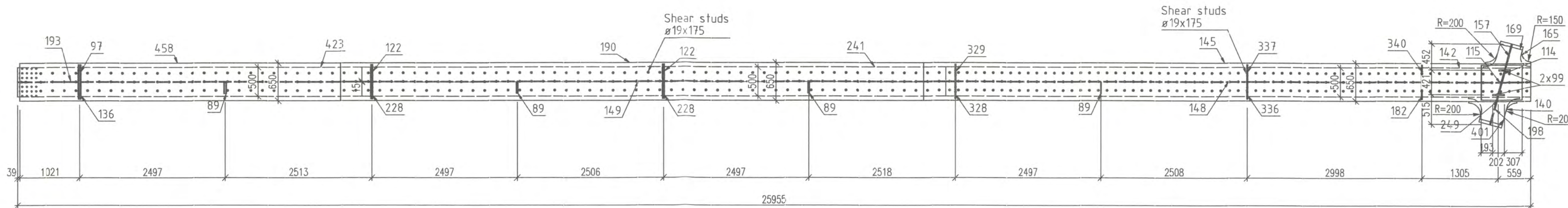
Nota: Acesta pentru planul proiectului este un SC NV CONSTRUCT SRL. Reproducerea acestui plan este interzisa fara acordul scris al SC NV CONSTRUCT SRL.



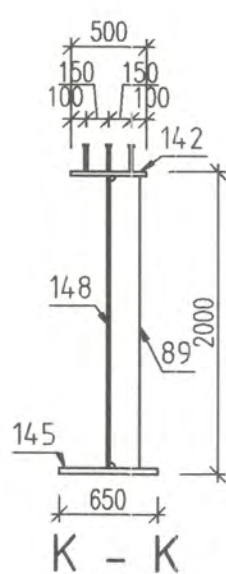


<p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>- Detalierea îmbinărilor dintre ansamblu (din sudu) se face în planşa: Schema de montaj Supracstructura metalică.</li> <li>- Sudurile de la faţa exterioră (văzută) a suprastructurii metalice se vor poliza la faţa elementelor.</li> <li>- Lungimea elementelor/pieselor sunt date întregă, fără a ţine cont de prelucrarea elementelor pentru sudarea dintr-unsoanele ce alcătuiesc suprastructura metalică.</li> <li>- Greutăţile din tabelul cu elementele/piesele reprezintă valorile NETE(piese debitate).</li> </ul>	<p style="text-align: center;"><b>CONECTORI METALICI</b></p> <p><b>Otel: S235J2+M450</b>  <b>Diametru: 19mm</b>  <b>Lungime conector: 175mm</b>  <b>Dist. min. între conectori: 150mm</b></p>
<p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>- Constructorul are obligaţia de a verifica proiectul înainte de a proceda la execuţie şi de a comunica proiectanţilor orice neputinţe, erori sau neclarităţi pentru a face corecţiile sau clarificările necesare.</li> </ul>	

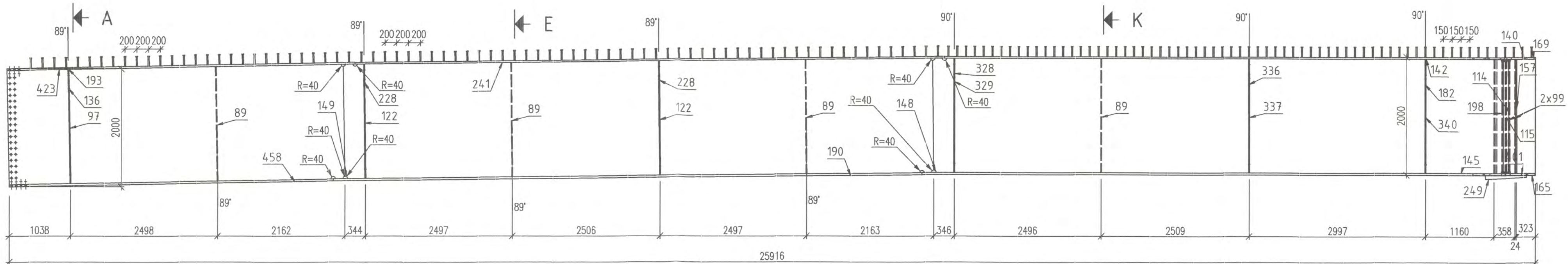




A - A



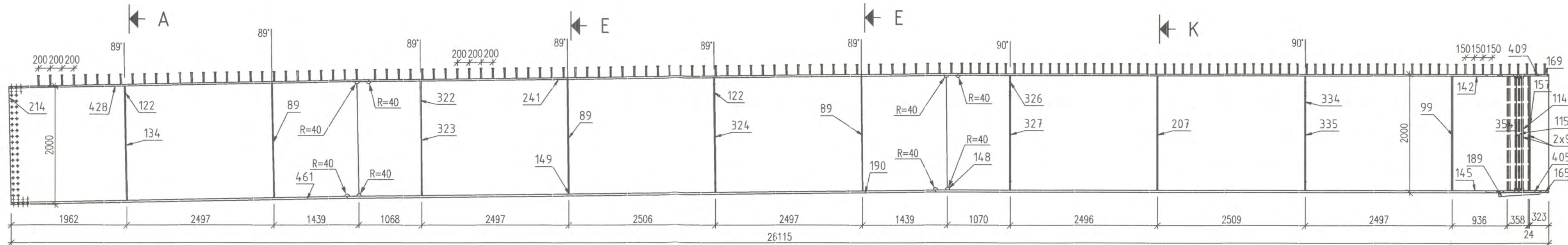
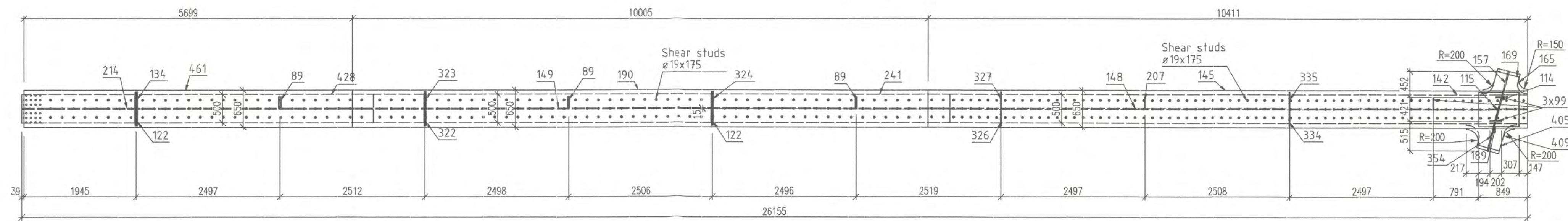
K - K



A

E

K

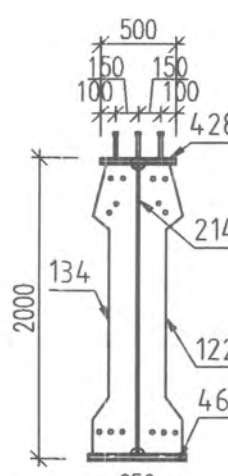


A

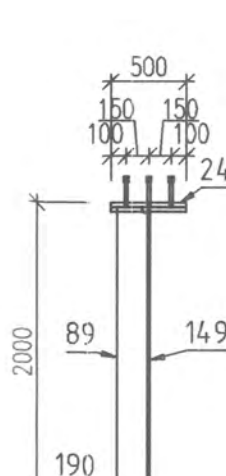
E

E

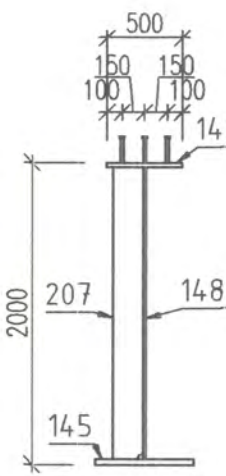
K



A - A



E - E



K - K

Mark	Quantity	Description	Length	Grade	Part weight	Total weight
1129	1	PL 15x1935x10231.63				
148	1	PL 15x1934.89x10231.6	10232	S355	2328.7	2328.7
149	1	PL 15x1934.94x10021.53	10022	S355	2281.34	2281.34
145	1	PL 650x35x10410.97	10411	S355	1859.27	1859.27
190	1	PL 650x35x10006.69	10007	S355	1787.07	1787.07
193	1	PL 15x1935x5702.67	5703	S355	1298.77	1298.77
142	1	PL 500x30x10031.66	10032	S355	1181.23	1181.23
241	1	PL 500x30x10021.26	10021	S355	1180	1180
458	1	PL 650x35x5499.49	5499	S355	982.14	982.14
423	1	PL 500x30x5902.93	5903	S355	695.07	695.07
198	1	PL 1933x20x525.17	525	S355	158.57	158.57
249	1	PL 600x63.35x700	700	S355	153.88	153.88
157	1	PL 20x460.01x1935	1935	S355	139.49	139.49
140	1	PL 30x476.88x878.22	878	S355	65.4	65.4
97	1	PL 15x290x1935	1935	S355	64.03	64.03
122	2	PL 15x290x1935	1935	S355	64.03	128.06
136	1	PL 15x290x1935	1935	S355	64.03	64.03
182	1	PL 15x290x1935	1935	S355	64.03	64.03
228	2	PL 15x290x1935	1935	S355	64.03	128.06
328	1	PL 15x290x1935	1935	S355	64.03	64.03
329	1	PL 15x290x1935	1935	S355	64.03	64.03
336	1	PL 15x290x1935	1935	S355	64.03	64.03
337	1	PL 15x290x1935	1935	S355	64.03	64.03
340	1	PL 15x290x1935	1935	S355	64.03	64.03
114	1	PL 20x205.09x1935	1935	S355	61.78	61.78
115	1	PL 20x205.09x1935	1935	S355	61.78	61.78
99	2	PL 20x200x1935	1935	S355	60.76	121.52
401	1	PL 30x451.88x828.22	828	S355	59.1	59.1
169	1	PL 30x413.94x811.83	812	S355	53.2	53.2
165	1	PL 30x388.94x773.44	773	S355	47.97	47.97
89	4	PL 12x200x1935	1935	S355	36.3	145.22
479	435	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	186.01
One assembly weight:					15615.87	15615.87
1130	1	PL 15x1935x10231.67				
148	1	PL 15x1934.89x10231.6	10232	S355	2328.7	2328.7
149	1	PL 15x1934.94x10021.53	10022	S355	2281.34	2281.34
145	1	PL 650x35x10410.97	10411	S355	1859.27	1859.27
190	1	PL 650x35x10006.69	10007	S355	1787.07	1787.07
214	1	PL 15x1935x5903.01	5903	S355	1344.39	1344.39
142	1	PL 500x30x10031.66	10032	S355	1181.23	1181.23
241	1	PL 500x30x10021.26	10021	S355	1180	1180
461	1	PL 650x35x5699.49	5699	S355	1017.86	1017.86
428	1	PL 500x30x6103.01	6103	S355	718.63	718.63
354	1	PL 1933x20x525.17	525	S355	158.56	158.56
189	1	PL 600x62.47x700	700	S355	152.44	152.44
157	1	PL 20x460.01x1935	1935	S355	139.49	139.49
409	1	PL 30x477.54x878.22	878	S355	64.89	64.89
122	2	PL 15x290x1935	1935	S355	64.03	128.06
134	1	PL 15x290x1935	1935	S355	64.03	64.03
323	1	PL 15x290x1935	1935	S355	64.03	64.03
324	1	PL 15x290x1935	1935	S355	64.03	64.03
327	1	PL 15x290x1935	1935	S355	64.03	64.03
335	1	PL 15x290x1935	1935	S355	64.03	64.03
334	1	PL 15x290x1935	1935	S355	64.03	64.03
326	1	PL 15x290x1935	1935	S355	64.03	64.03
322	1	PL 15x290x1935	1935	S355	64.03	64.03
114	1	PL 20x205.09x1935	1935	S355	61.78	61.78
115	1	PL 20x205.09x1935	1935	S355	61.78	61.78
99	3	PL 20x200x1935	1935	S355	60.76	182.28
405	1	PL 30x452.59x828.22	828	S355	58.65	58.65
169	1	PL 30x413.94x811.83	812	S355	53.2	53.2
165	1	PL 30x388.94x773.44	773	S355	47.97	47.97
207	1	PL 12x200x1935	1935	S355	36.38	36.38
89	3	PL 12x200x1935	1935	S355	36.3	108.91
479	435	Nelson S3L Mild Steel 19 175	175	Mild Steel	0.43	186.01
One assembly weight:					15651.14	15651.14
Combined Total						31267.02

NOTA:

- Detalierea imbinarilor dintre ansamble (din situ) se face in plansa: Schema de montaj Suprastructura metalica.
- Sudurile de la fata exteriora(vazuta) a suprastructurii metalice se vor poliza la fata elementelor.
- Lungimea elementelor/pieselor sunt date interax, fara a tine cont de prelucrarea elementelor pentru sudura dintre tronsoanele ce alcatuiesc suprastructura metalica.
- Greutatile din tabelul cu elementele/pieseile reprezinta valorile NETE(piesele debitate).

CERINTE DE CALITATE TABLIER METALIC:

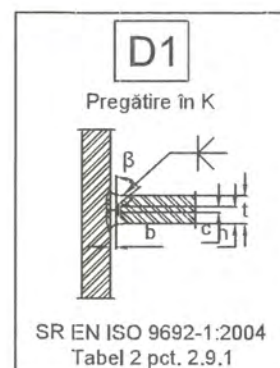
- Clasa de conexiinta: CC2
- Categoria de serviciu: SC2
- Categoria de productie: PC2
- Clasa de executie: EXC3
- Clasa de ductilitate: DCL
- Tolerante la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - clasa de calitate S1
- Calitatea suprafetelor taiate: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2, SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordinarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finite/certificate de verificare
- Asemblare: Toleranta functionala Clasa 2-EXC3
- Toate sudurile vor fi cu pat-undere completa cu exceptia sudurilor de colt.
- Sudurile se vor realiza pe toata lungimea de contact intre elemente.
- Verificarea sudurilor se va face prin control cu ultrasunete.

CERINTE DE CALITATE CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

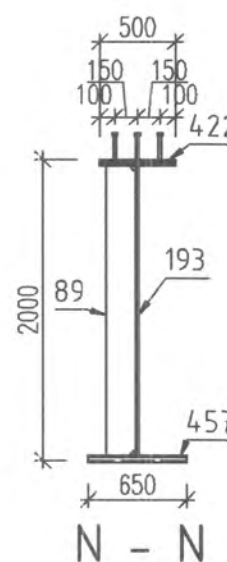
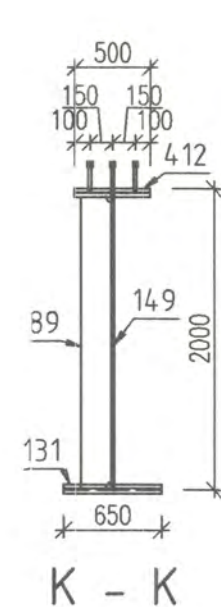
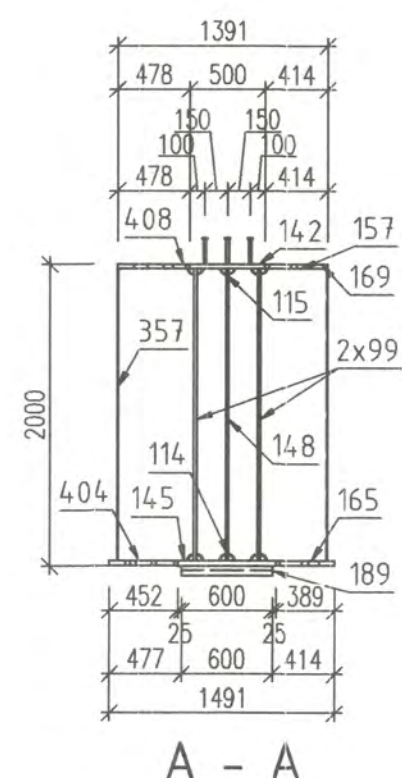
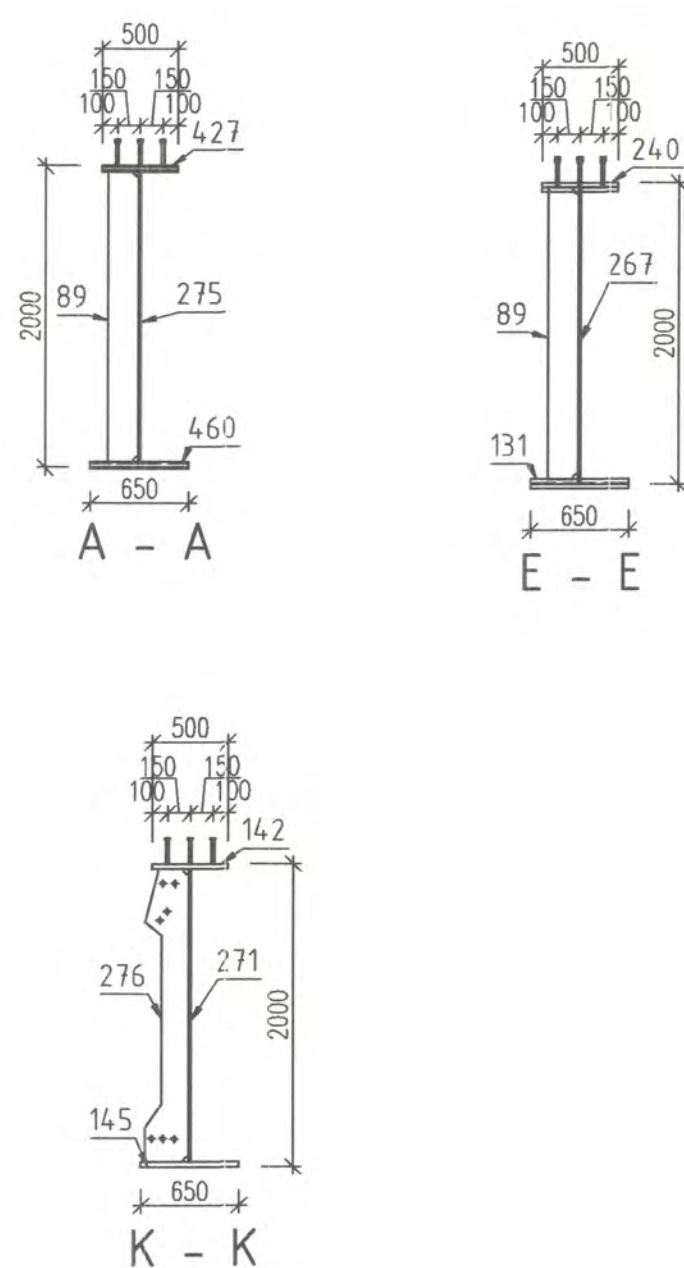
NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectile sau clarificarile necesare.



<div> <div>BENEFICIAR :</div> <div>COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.</div> <div>Adresa:Bd.Dimitrie Ghicula 38, sector 1, Bucuresti, Romania, 010873 Tel: (021) 264 52 00 Fax: (021) 312.08 94 E-mail: cnaia@cnaia.ro</div> </div>	<div> <div>PROIECTAT:</div> <div>S.C. NV CONSTRUCT S.R.L</div> <div>Olas-Napoca, Str. Arges, nr.26, ap.8</div> <div>C.U.I: FO18639415</div> <div>Nr.Reg. Com J12/1520/2006</div> </div>	<div> <div> <div> <div></div> <div>nv construct</div> <div>infrastructure design</div> </div> </div> </div>	TITLU PROIECT:		Coord. proiect:	Ing. Dan SIMA	<div> <div>550/2021</div> <div>Scara: 1:50</div> </div>	TITLU PLANSA:	Confecție metalica Plan ansamblu					
			Coord. adj. proiect:	Ing. Mircea BOBAR	<div> <div>550/2021</div> <div>Scara: 1:50</div> </div>									
			Proiectat:	Ing. Dan TOMIWA	<div> <div>550/2021</div> <div>Scara: 1:50</div> </div>									
			Verificat:	Ing. Valeria TONU	<div> <div>550/2021</div> <div>Scara: 1:50</div> </div>									
FAZA: P.T.E.									<div> <div>PROIECT</div> <div>ALTERNATIVA</div> <div>FAZA</div> <div>CHIECT</div> <div>SUBIECT</div> <div>NUMAR</div> <div>REVIZA</div> </div> <div> <div>550/2021</div> <div>A1</div> <div>PTE</div> <div>POD</div> <div>PO</div> <div>618</div> <div>R.1</div> </div>					





<p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>- Detalierea imbinarilor dintre ansamblu (din sit) se face in plansa: Schema de montaj Suprastuctura metalica.</li> <li>- Surdulele de la fata exteriora(vazuta) a suprastucturii metalice se vor poliza la fata elementelor.</li> <li>- Lungimea elementelor/pieselor sunt date intercar, fara a tine cont de prelucrarea elementelor pentru sudura dintre tonsoanele ac alcatuiesc suprastuctura metalica.</li> <li>- Creatiile din tabelul cu elementele/piesele reprezinta valorile NETE(giese debitate).</li> </ul>	<p><b>GERINTE DE CALITATE CONECTORI METALICI</b></p> <p>Otel: S235J2+C450  Diametru: 19mm  Lungime conector: 175mm  Dist. min. intre conectori: 150mm</p>
<p><b>GERINTE DE CALITATE TABLIERI METALICI:</b></p> <p>CLASA OTELULUI STRUCTURAL: S355 J2+N</p> <ul style="list-style-type: none"> <li>- Clasa de consecinta: CC2</li> <li>- Categoria de serviciu: SC2</li> <li>- Categoria de productie: PC2</li> <li>- Clasa de executie: EXC3</li> <li>- Clasa de ductilitate: DCL</li> <li>- Tolerante la grosimi pentru table: EXC3 - Clasa A</li> <li>- Proprietati speciale: EXC3 - clasa de calitate S1</li> <li>- Calitatea suprafelelor tale: EXC3 - domeniul 4</li> <li>- Sudura: SR EN 3834 - 2, SR EN 9692 - 1</li> <li>- Verificarea suduri: EXC3 - EN ISO 15614-1; EN ISO 15613</li> <li>- Coordonarea sudurii: EXC3 - nivelul C</li> <li>- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015</li> <li>- Identificare: EXC3 - elemente finisate/certificate de verificare</li> <li>- Asamblare: Toleranta functionala Clasa 2-EXC3</li> <li>- Toate surdule vor fi cu pastuzare completa cu exceptia sudurilor de colt.</li> <li>- Surdule se vor realiza pe toata lungimea de contact intre elemente.</li> <li>- Verificarea sudurilor se va face prin control cu ultrasunete.</li> </ul>	<p><b>NOTA:</b></p> <ul style="list-style-type: none"> <li>- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice neputintire, erorare sau neadecvat pentru a face corectiile sau clarificarile necesare.</li> </ul>



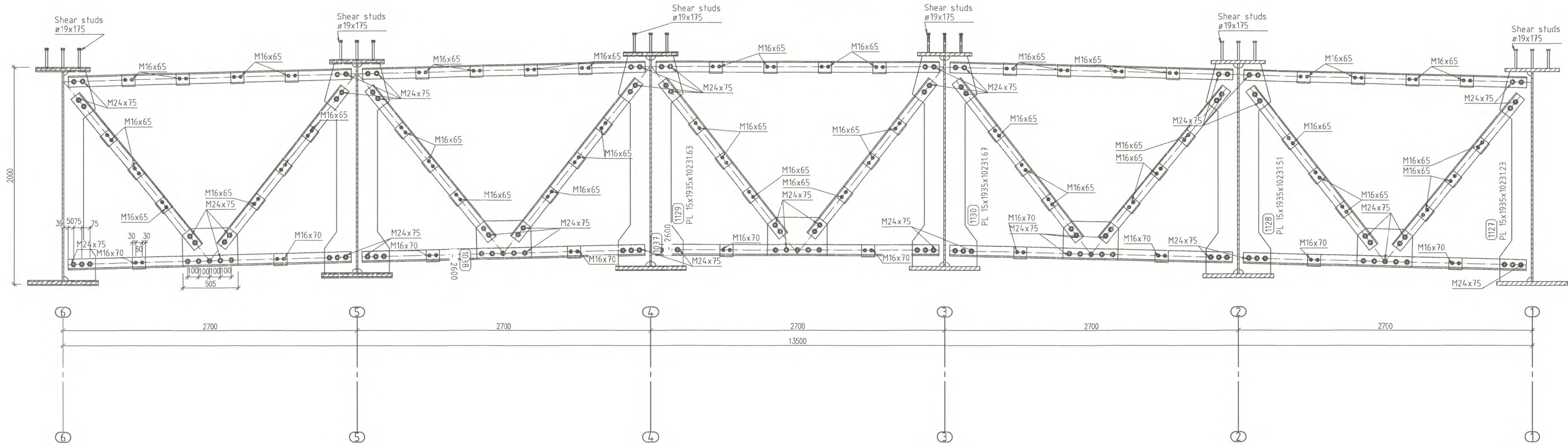




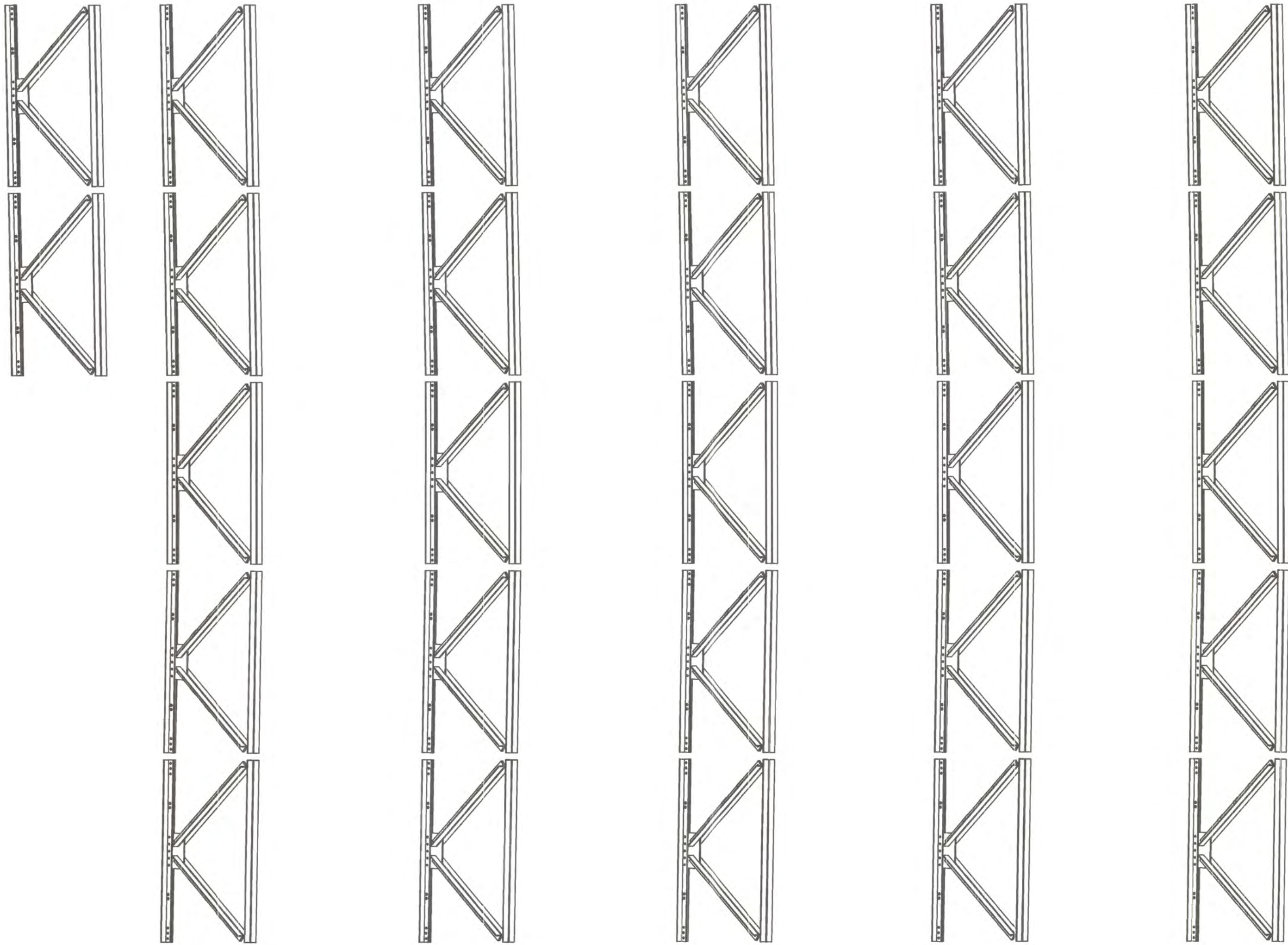
BENEFICIAR:		COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.		PROIECTAT:		S.C. NV CONSTRUCT S.R.L. Cluj-Napoca, Str. Arges, nr.26, ap.8 C.U.I.: RO16039415 Nr.Reg.Com 12715202006		TITLU PROIECT:		"Pasaj superior pe DN2, peste CF la Roman, Km 332+961"		Coord. proiect:		Ing. Dan SIMA		Numar Proiect:		550/2021		TITLU PLANSA:							
<div><div>Adresa: Bd. Dr. Gheorghe I. Brucan 1, sector 1, Bucuresti, Romania, 010373 TEL: 021-264 12 01 / Fax: 021-312.69.86 E-mail: office@nvnconstruct.ro</div></div>		<div><div><b>nv construct</b> (INFRASTRUCTURE DESIGN)</div></div>		FAZA P.T.E.		Coord. arh. proiect:		Ing. Mircea BOBARA		Scara:		1:50		Confectie metalica Plan ansamblu		Data:		PROJECT / ALTERNATIVE		FAZA		OBJECT / SUBJECT		NUMAR		REVIZIA	
						Proiectant:		Ing. Dan TOMOAGA		Verificat:		Ing. Valeria TONU															
						Jan. 2024		550/2021_A1		PTE		PD															



Sectiune transversala antretoaza curenta ansamblu 1011  
scara 1:20



Vedere izometrica ansamblu 1011  
scara 1:50



CERINTE DE CALITATE  
CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

NOTA  
Construcorul are obligaia de a verifica proiectul inainte de a  
proceda la execuia si de a comunica proiectantului orice nepotrivire,  
eroare sau nedaritate pentru a face coreciile sau clarificari necesare.

CERINTE DE CALITATE TABLIER METALIC:

CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de consecina: CC2
- Categoria de serviciu: SC2
- Categoria de producie: PC2
- Clasa de execuie: EXC3
- Clasa de ductilitate: DCL
- Tolerane la grosimi pentru table: EXC3 - Clasa A
- Proprietati speciale: EXC3 - clasa de calitate S1
- Calitatea suprafeelor taiate: EXC3 - domeniul 4
- Sudare: SR EN 3834 - 2; SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817 2015
- Identificare: EXC3 - elemente finisate/certificate de verificare
- Asamblare: Tolerana funcionala Clasa 2-EXC3
- Toate sudurile vor fi cu patundere completa cu exceptia sudurilor de colt.
- Sudurile se vor realiza pe toata lungimea de contact intre elemente.
- Verificarea sudurilor se va face prin control cu ultrasunete.

BENEFICIAR: COMPANIA NAIONALĂ DE  
ADMINISTRAIE A  
INFRASTRUCTURII RUTIERE S.A.

PROIECTAT: S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.3  
C.U.I. RO18639415,  
Nr.Reg. Com.J12/1520/2006

nv construct

TITLU PROIECT: "Pasaj superior pe DN2, peste CF la Roman,  
Km 332+961"

FAZA: P.T.E.

Coord. proiect: Ing. Dan SIMA  
Coord. adj. proiect: Ing. Mircea BOBAR  
Proiectat: Ing. Dan TOMOAGA  
Verificat: Ing. Valeria TOVU

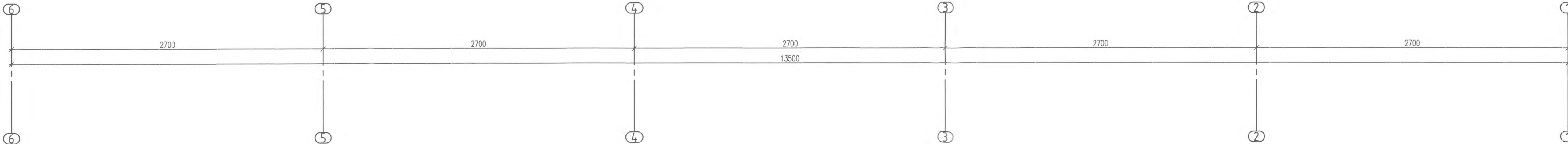
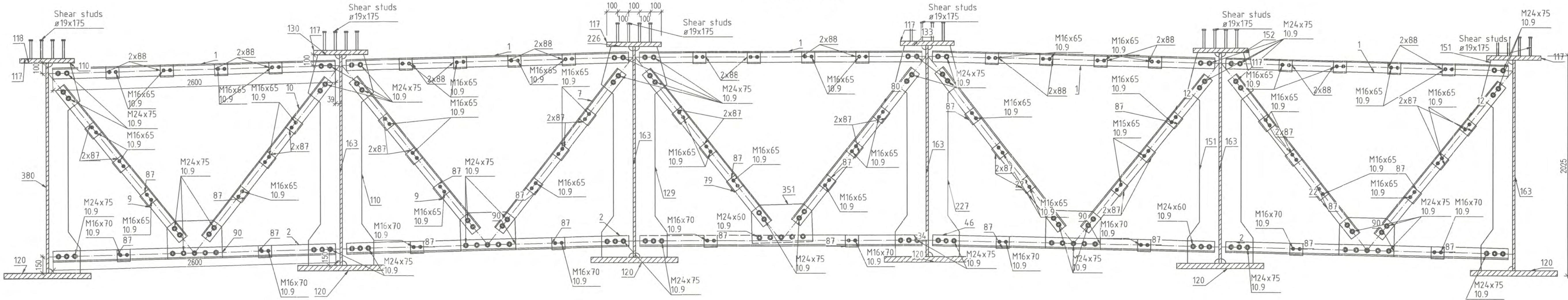
Numar Proiect: 550/2021  
Scara: 1:50/20  
Data: Ian. 2024

TITLU PLANISA: Confecie metalica  
Plan ansamblu 1011

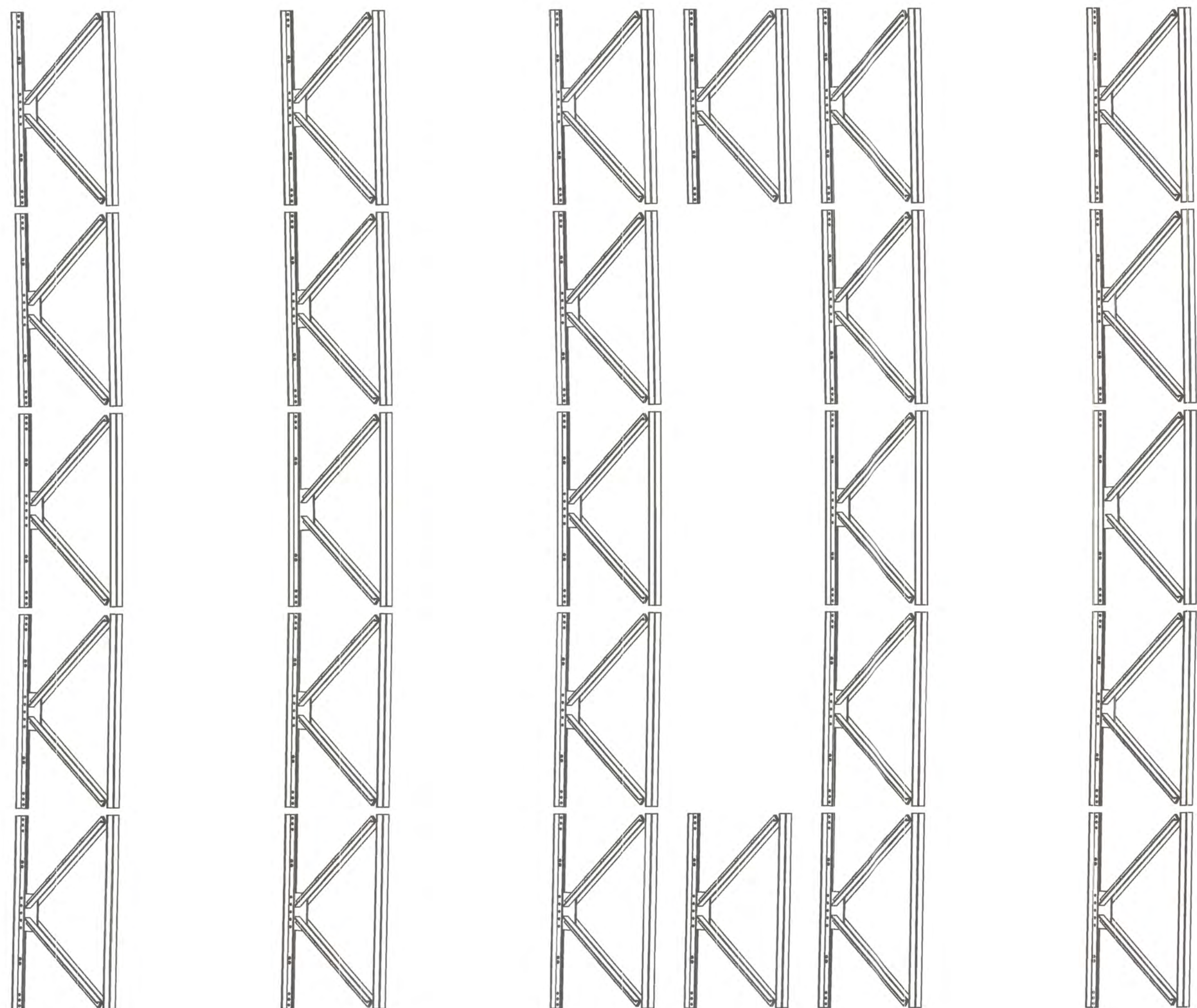
PROIECT	ALTERNATIVA	FAZA	OBIECT	SUBIECT	NUMAR	REVIZA
550/2021	A1	PTE	POD	PD	700	R.1



Sețiune transversala antretoaza curenta ansamblu 1018  
scara 1:20



Vedere izometrica ansamblu 1018  
scara 1:50



## CERINTE DE CALITATE CONECTORI METALICI

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. intre conectori: 150mm

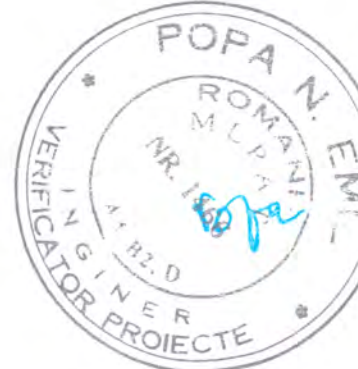
NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare

## CERINTE DE CALITATE TABLIER METALI

CLASA OTELULUI STRUCTURAL: S355 J2+M

- Clasa de consecința: CC2
- Categoria de serviciu: SC2
- Categoria de producție: PC2
- Clasa de execuție: EC2
- Clasa de ductilitate: DCL
- Toleranțe la grosimi pentru table: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor tăiate: EXC3 - domeniul 4
- Sudare: SR EN 334 - EN ISO 9859
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivel C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finisate/certificate de verificare
- Asamblare: Toleranța funcțională Clasa 2-EXC3
- Toleranțe de formă și dimensiuni: complete cu verificare asupra surilor de coordonate
- Sudurile se vor realiza pe toate lungimile de contact între elemente.
- Verificarea sudurii se va face prin control cu ultrasunete.



**BENEFICIAR :**

 **COMPANIA NAȚIONALĂ DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE**

Adresa: Bd-ul Dincu Goleșcu 38, sector 1, București, România, 0106  
Tel.: 021.264.32.00 / Fax: 021.312.69.64  
E-mail: office@andnet.ro

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap.  
C.U.I: RO18639415,  
Nr.Reg. Com.J12/1520/2006





**nv construct**  
INFRASTRUCTURE DESIGN

TITLU PROIECT:

"Pasaj superior pe DN2, peste CF la Roman  
Km 332+961"

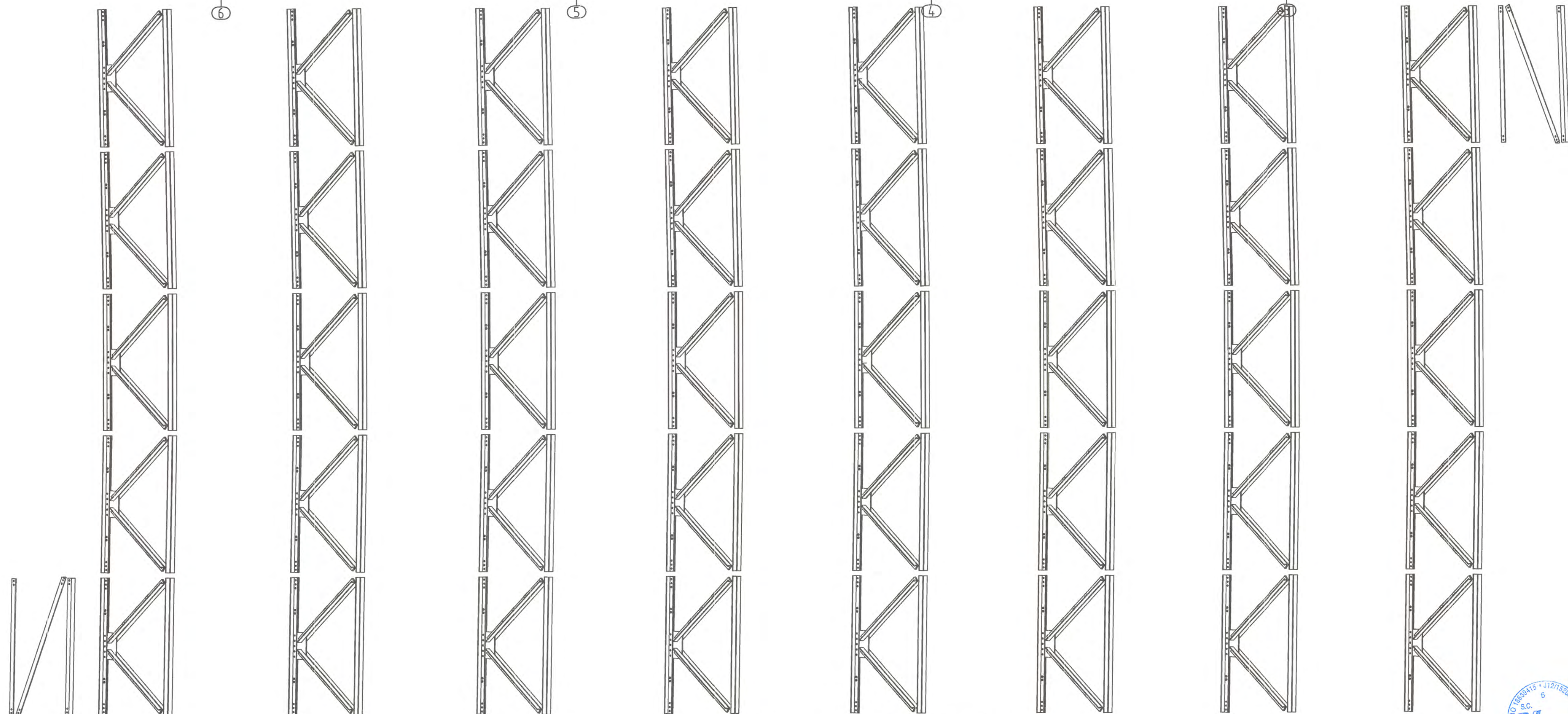
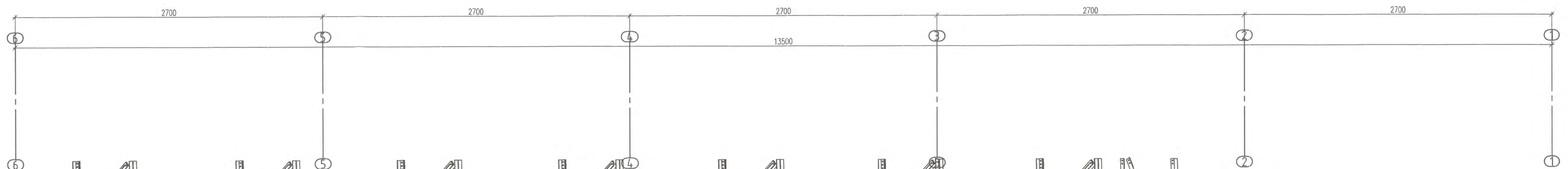
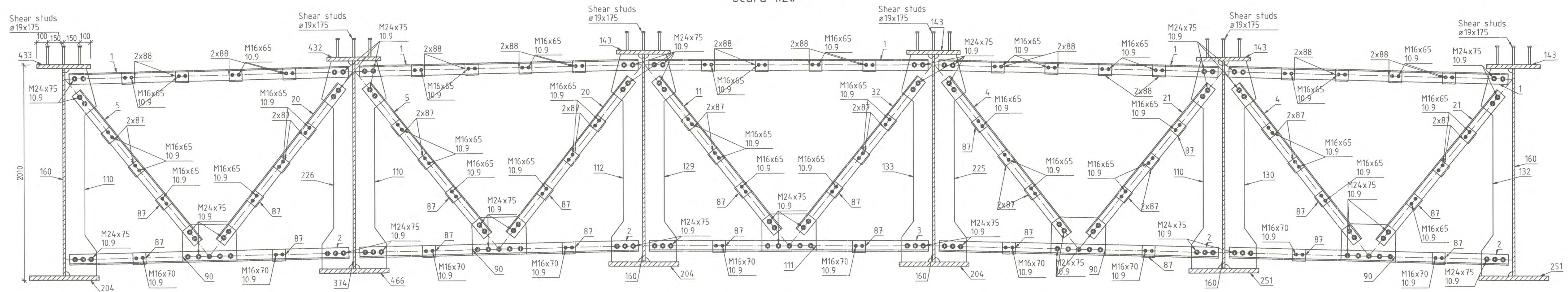
Coord. proiect:	ing. Dan SIM
Coord. adj. proiect:	ing. Mircea BOBA

 	Numar Proiect:	TITLU PLANSA:
	550/2021	
	Scara:	Confectie metalica Plan ansamblu 1018

Notă: Această planșă este proprietate intelectuală a SC NV CONSTRUCT SRL. Reproducerea acestei planșe este interzisă fără acordul scris al SC NV CONSTRUCT SRL.



Sețiune transversala antretoaza curenta ansamblu 1102  
scara 1:20



Vedere izometrica ansamblu 1102  
scara 1:50



**CERINTE DE CALITATE  
CONECTORI METALICI**

Otel: S235J2+C450  
Diametru: 19mm  
Lungime conector: 175mm  
Dist. min. între conectori: 150mm

**NOTA:**

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.



CERINTE DE CALITATE TABLIER METALIC:

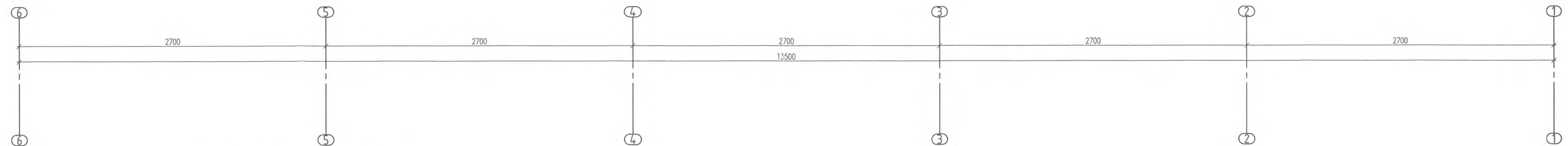
CLASA OTELULUI STRUCTURAL: S355 J2+N

- Clasa de conștiință: CG2
- Categoria de servicii: SC2
- Categoria de producție: PC2
- Clasa de producție: EDC1
- Clasa de ductilitate: D1
- Toleranță la grosimi pentru talie: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor taliei: EXC3 - domeniul 4
- Surse: SR EN 3834 - 2, SR EN 6962 - 1
- Valoarea sudurii: EN ISO 1561/41, EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterele de acceptare: EXC3 - nivel de calitate B EN 817:2015
- Identificarea: EXC3 - elemente finite/cifre/codice de verificare
- Examinare: Toleranța la grosime Clasa 2
- Tăuile sudurii vor fi cu patrundere completă cu excepția sudurii de colț.
- Sudurile se vor realiza pe toate lungimile de contact între elemente.
- Elementele sudurii vor fi executate în conformitate cu următoarele:



The drawing illustrates a roof truss system with the following components and dimensions:

- Top Chord:** Labeled with dimensions 437, 1, 2x88, 2x88, M16x65 10.9, 436, 1, 2x88, 2x88, M16x65 10.9, 438, 1, 2x88, 2x88, M16x65 10.9, 445, 1, 2x88, 2x88, M16x65 10.9, 439, 1, 2x88, 2x88, M16x65 10.9, 101, 1, 2x88, 2x88, M16x65 10.9, 119, 243, 143, 2x91, 164, 2x92, 113, 463, 102, 467, 113, 463, 102, 467, 113, 463, 102, 467.
- Bottom Chord:** Labeled with dimensions 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 307, 132, 87, M24x75 10.9, 87, M16x70 10.9, 197, M16x70 10.9, 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 232, M16x70 10.9, 305, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 304, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 283, 2x94, M24x135 10.9, 467, 113, 463, 102, 467, 113, 463, 102, 467.
- Diagonal Bracing:** Labeled with dimensions 21, 2x87, M16x65 10.9, 4, 2x87, M16x65 10.9, 306, 132, 87, M24x75 10.9, 87, M16x70 10.9, 197, M16x70 10.9, 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 232, M16x70 10.9, 305, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 304, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 283, 2x94, M24x135 10.9, 467, 113, 463, 102, 467, 113, 463, 102, 467.
- Vertical Supports:** Labeled with dimensions 2, 164, 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 197, M16x70 10.9, 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 232, M16x70 10.9, 305, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 304, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 283, 2x94, M24x135 10.9, 467, 113, 463, 102, 467, 113, 463, 102, 467.
- Roof Structure:** Labeled with dimensions 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 307, 132, 87, M24x75 10.9, 87, M16x70 10.9, 197, M16x70 10.9, 205, 164, 132, 87, M24x75 10.9, 87, M16x70 10.9, 232, M16x70 10.9, 305, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 304, 112, 87, M24x75 10.9, 87, M16x70 10.9, 90, M16x70 10.9, 283, 2x94, M24x135 10.9, 467, 113, 463, 102, 467, 113, 463, 102, 467.



**NOTA:**

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare.

- Clasa de consecința: CC2
- Categoria de servicii: SC2
- Categoria de producție: PC2
- Clasa de execuție: EXC3
- Clasa de durată: DCL
- Toleranța la greșelile punctuale: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor latente: EXC3 - demnitate 4
- Sudare: SR EN 3834 - 2: SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15612
- Coordonarea sudurii: EN 1090-2
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817/2015
- Identificare: EXC3 - elemente finite/certificate de verificare
- Asamblare: Toleranța funcțională Clasa 2-EXC3
- Toate sudurile vor fi cu putere completă cu excepția sudurilor cu
- Sudurile se vor realiza în condiții de siguranță de contact între elemente
- Verificarea sudurilor se va face prin control cu ultrasunete,



Coord. proiect:	ing. Dan SIMA
Coord. adj. proiect:	ing. Mirosia BOBAR
Proiectat:	ing. Dan TOMCIAGA
Verificat:	Ing. Valeria TONU

Numar Proiect: 550/2021	TITLU PLANSA:  Confectie metalica Plan ansamblu 1001
Scara: 1:5000	

1:50/20	Pemeriksaan 100%						
Data:	PROJECT	ALTERNATIF	FAZA	OBJEKT	SUBJEKT	NUMAR	REVISI
Jan. 2024	550/2021	A1	PTE	POD	PD	703	R 1



[illegible]

NOTA:

- Constructorul are obligatia de a verifica proiectul inainte de a proceda la executie si de a comunica proiectantului orice nepotrivire, eroare sau neclaritate pentru a face corectiile sau clarificarile necesare

**CERINTE DE CALITATE TABLIER METALIC:**

**CLASA OTEIULUI STRUCTURAL: S355 J2+N**

- Clasa de consecințe: C02
- Categoria de serviciu: SC2
- Categoria de producție: PC2
- Clasa de execuție: EXC3
- Clasa de ductilitate: DCL
- Toleranțe la grosimi pentru table: EXC3 - Clasa A
- Proprietăți speciale: EXC3 - clasa de calitate S1
- Calitatea suprafețelor table: EXC3 - nivelul 4
- Sudare: SR EN 3834 - 2, SR EN 9692 - 1
- Verificarea sudurii: EXC3 - EN ISO 15614-1; EN ISO 15613
- Coordonarea sudurii: EXC3 - nivelul C
- Criterii de acceptare: EXC3 - nivel de calitate B EN ISO 5817:2015
- Identificare: EXC3 - elemente finisate/cerificate de verificare
- Asamblare: Toleranța funcțională Clasa 2-EXC3
- Toate sudurile și șurubii/păunzii complecși cu excepția sudurilor de colț
- Sudurile vor realiza o bună legătură de contact între elemente.
- Verificarea și prelucrarea se va face prin contact cu ultrasunete.



CNAR

COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.

Adresa Bld Circului Golestan 30, sector 1, Bucuresti, Romania, 110873  
Tel: 021-264 12 00 / Fax: 021-31224984  
Email: oficiu@cnar.ro

nv construct

S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Argei, nr.26, ap.8  
CUI: RO1683941  
Nr.Reg. COM/15102/2006

PROIECT

Titlu proiect

TITLU PROIECT:  
"Pasa superior pe DN2, peste CF la Roman, Km 33+961"  
FAZA P.T.E.

Coord. proiect:

ing. Dan SIMA

Coord. adp.:

ing. Mircea BOGAR

Scant:

Verificat:

Ing. Dan TOMA

2024

2024

Numar Proiect:

550/2021

Data:

Iun. 2024

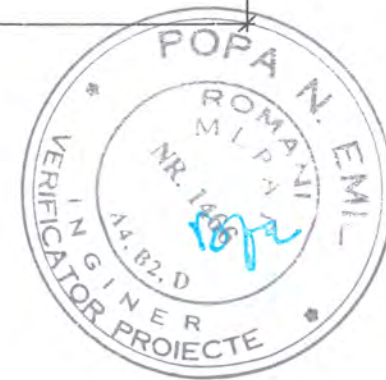
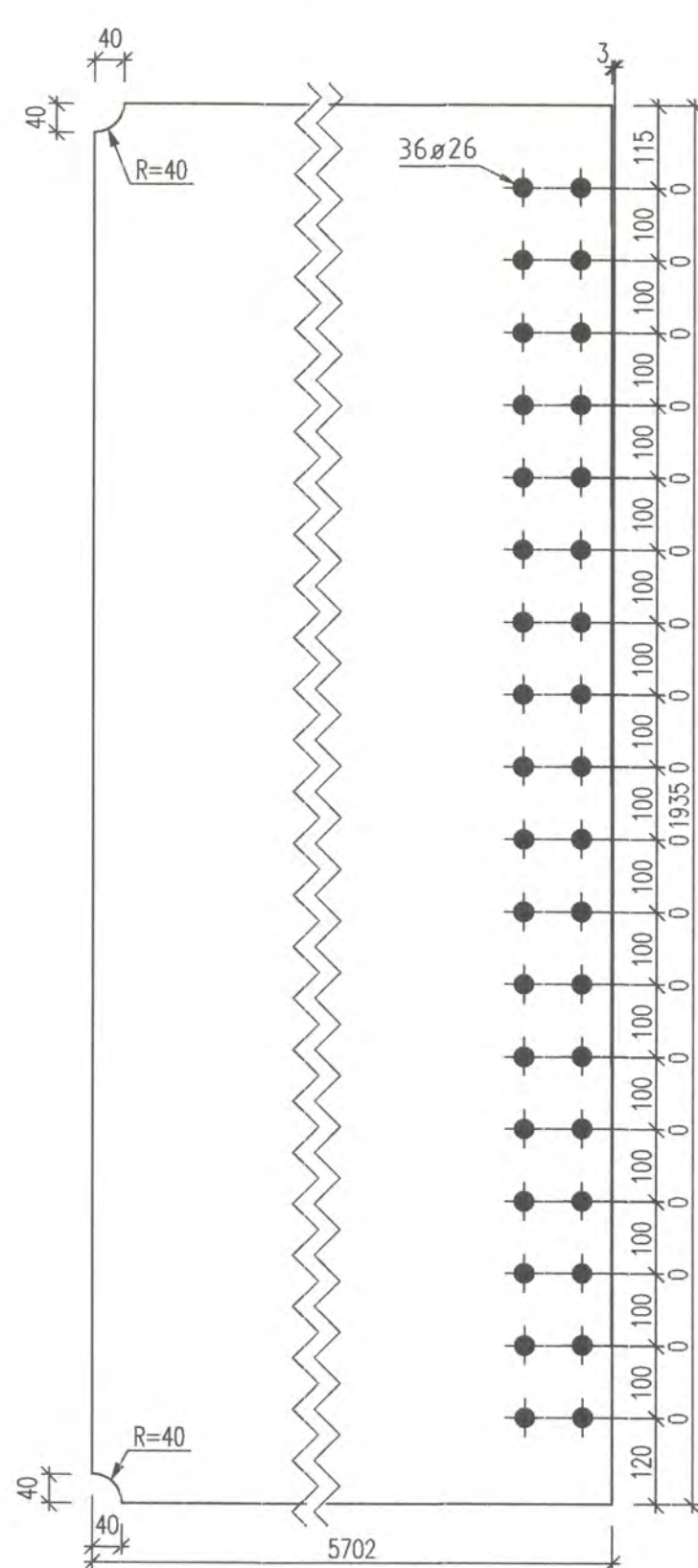
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AN	PTE	OD	SUBIECT	NUMAR	REVIZIA
2021	A1	PTE	OD	704	8

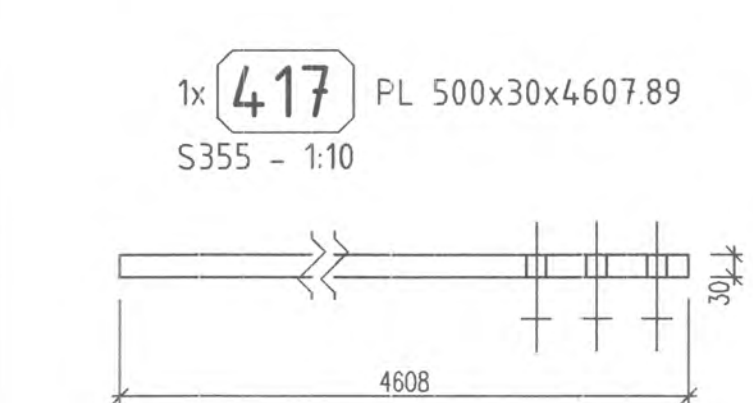
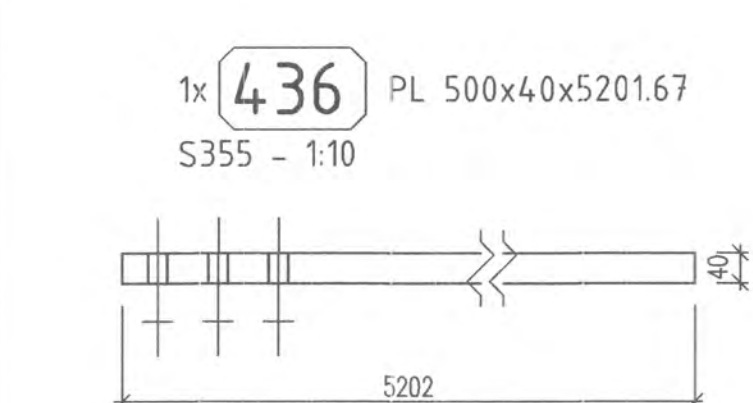
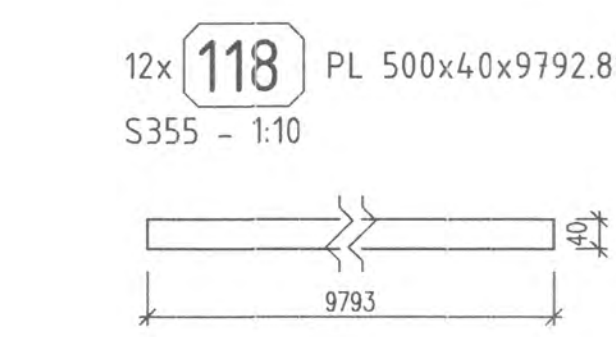
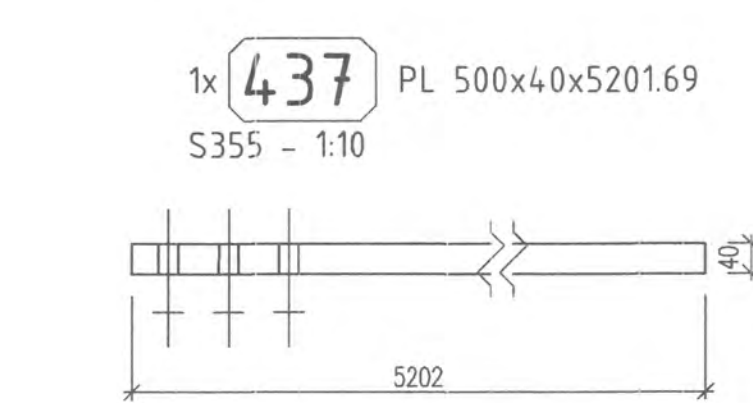
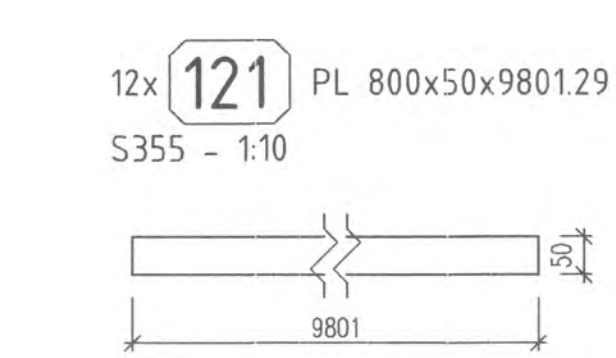
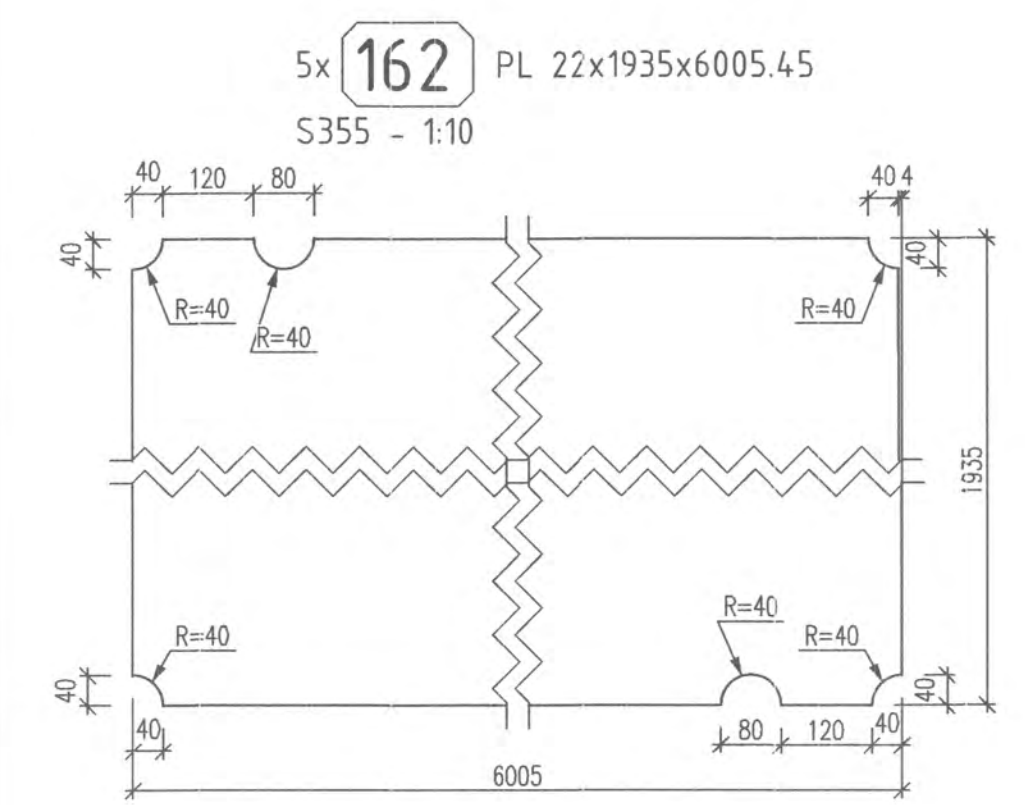
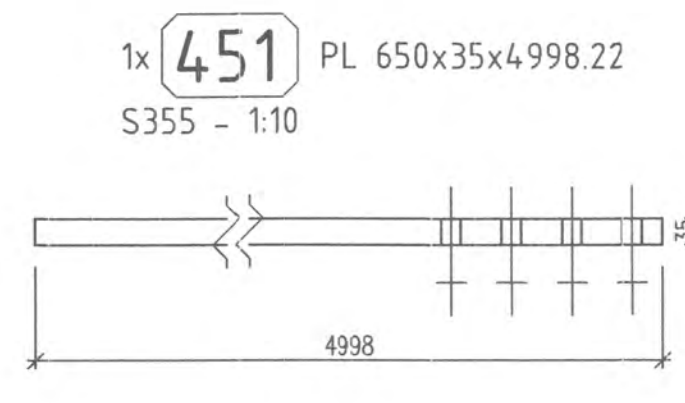
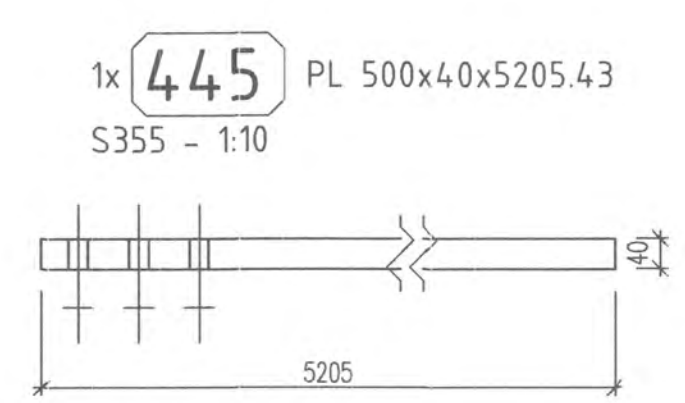
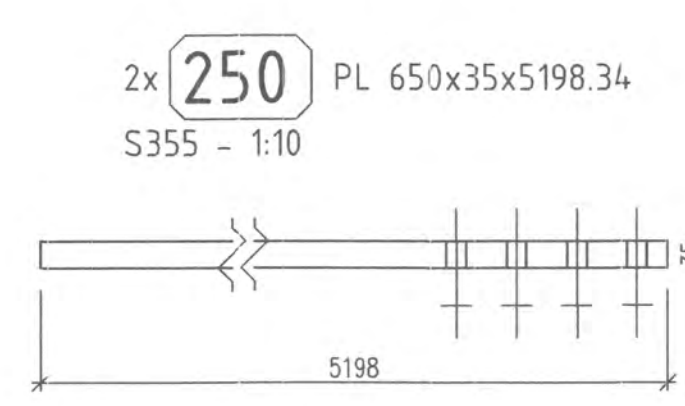
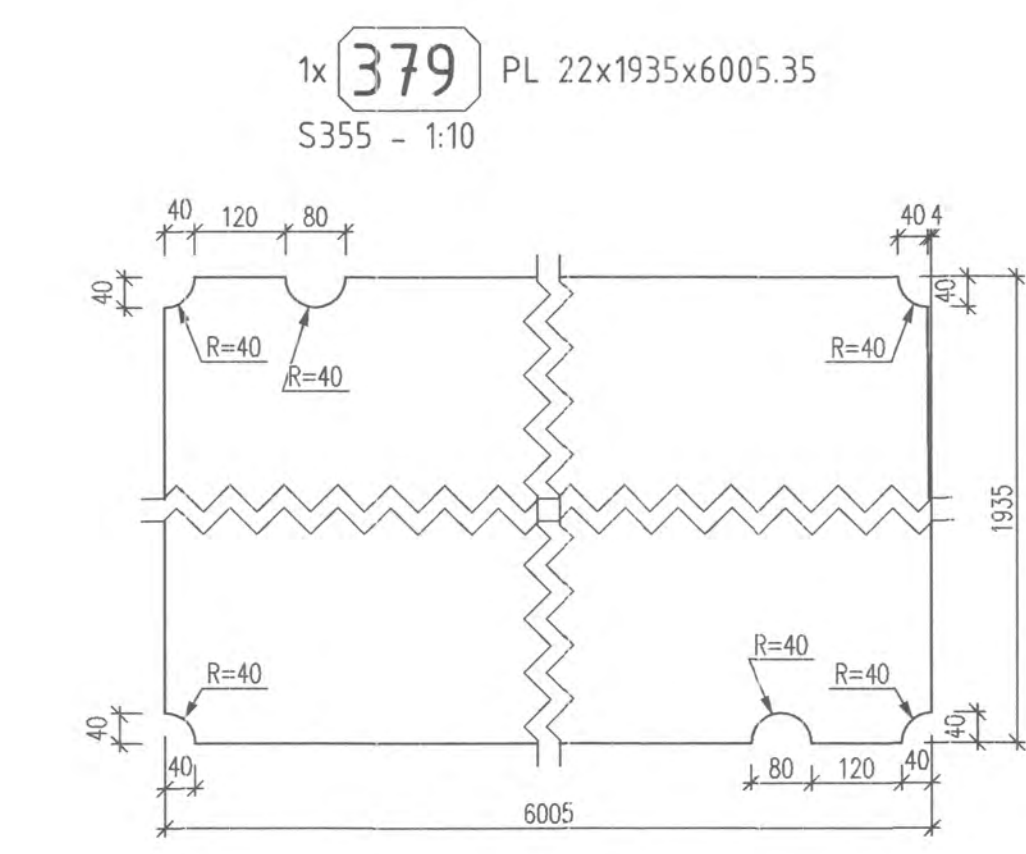
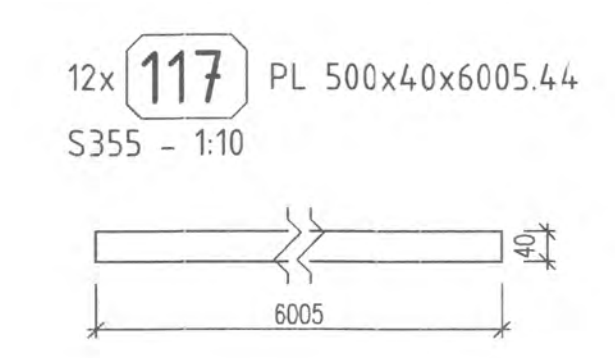
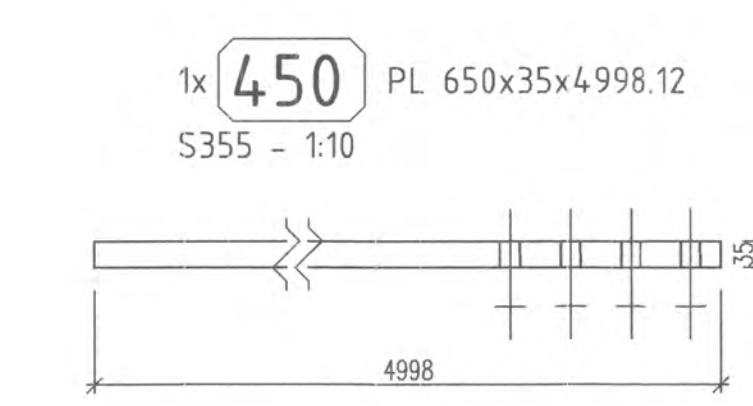
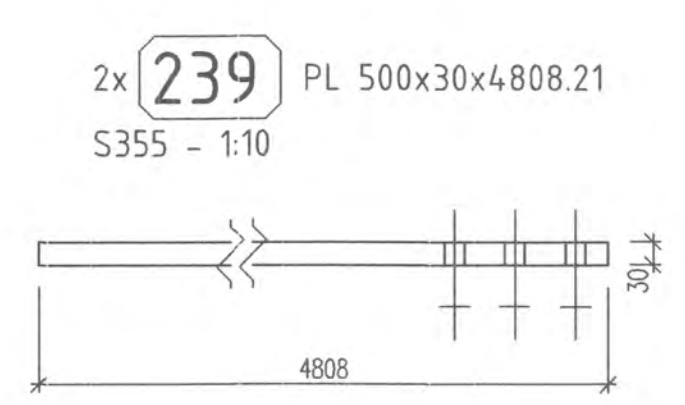
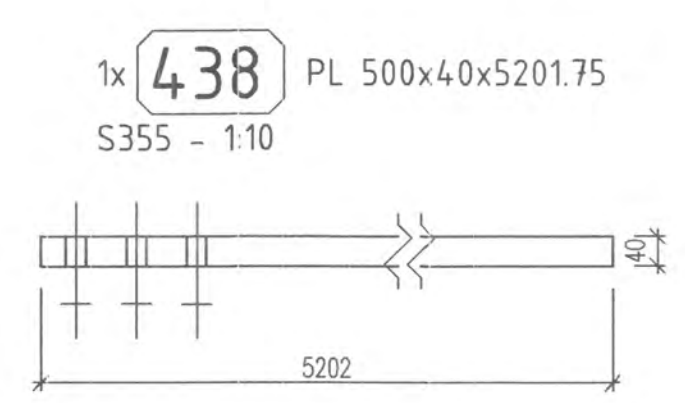
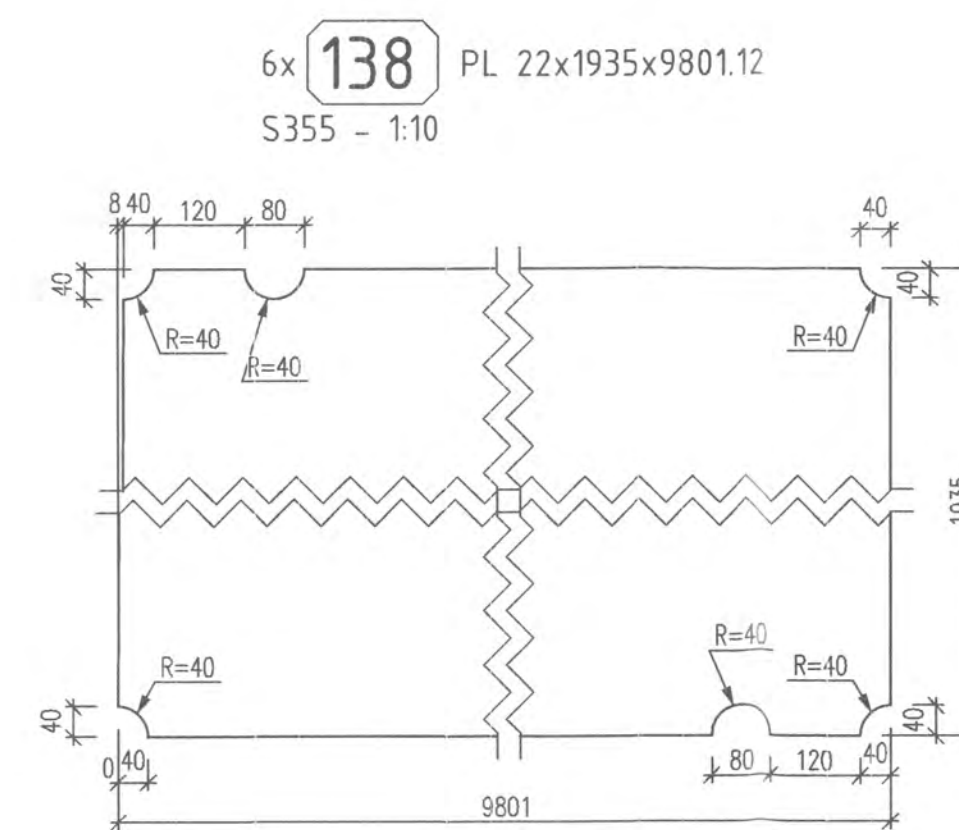
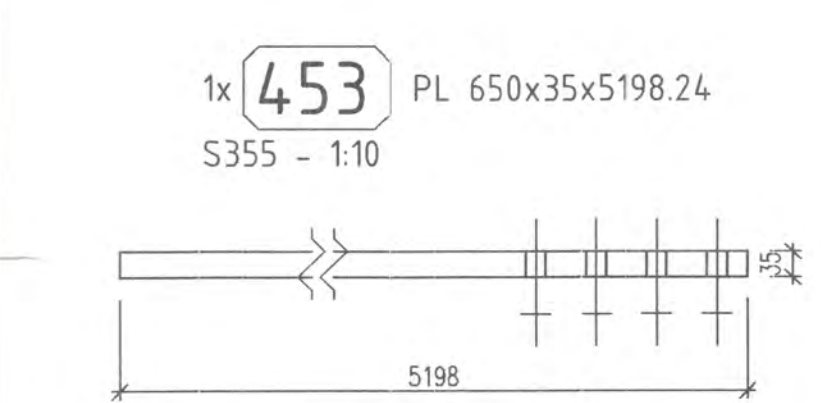
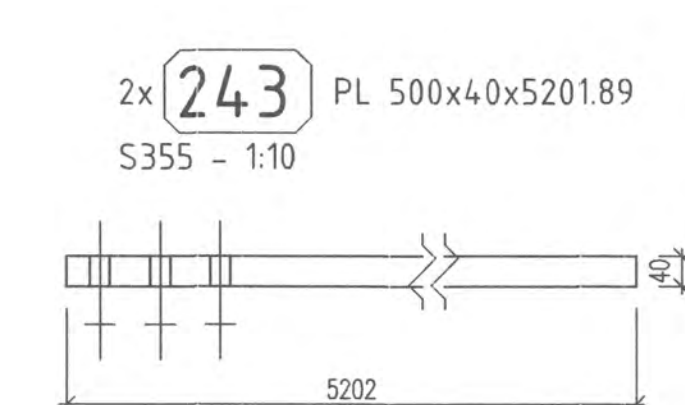
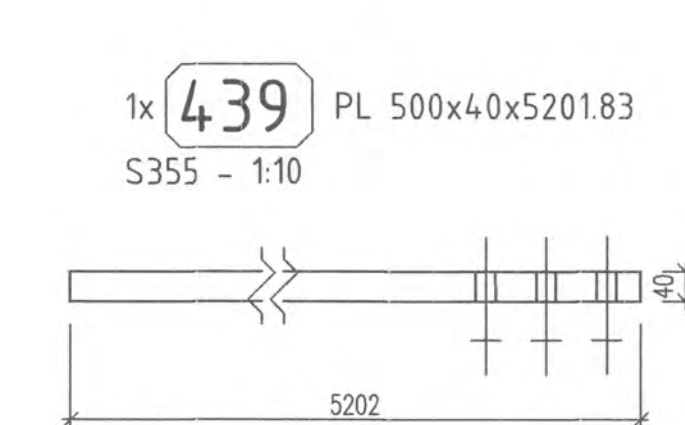
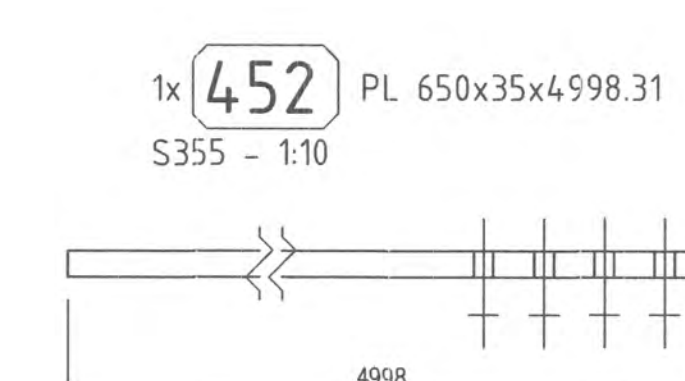
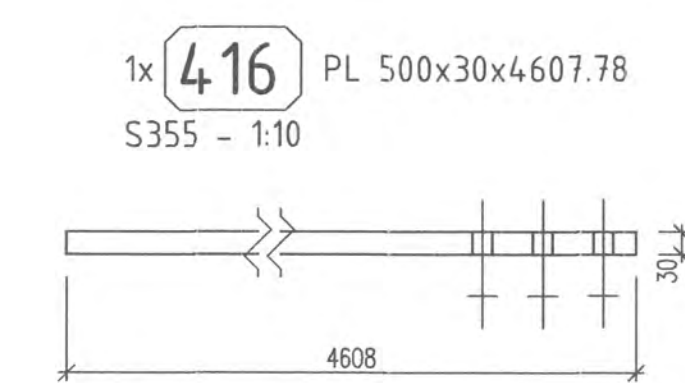
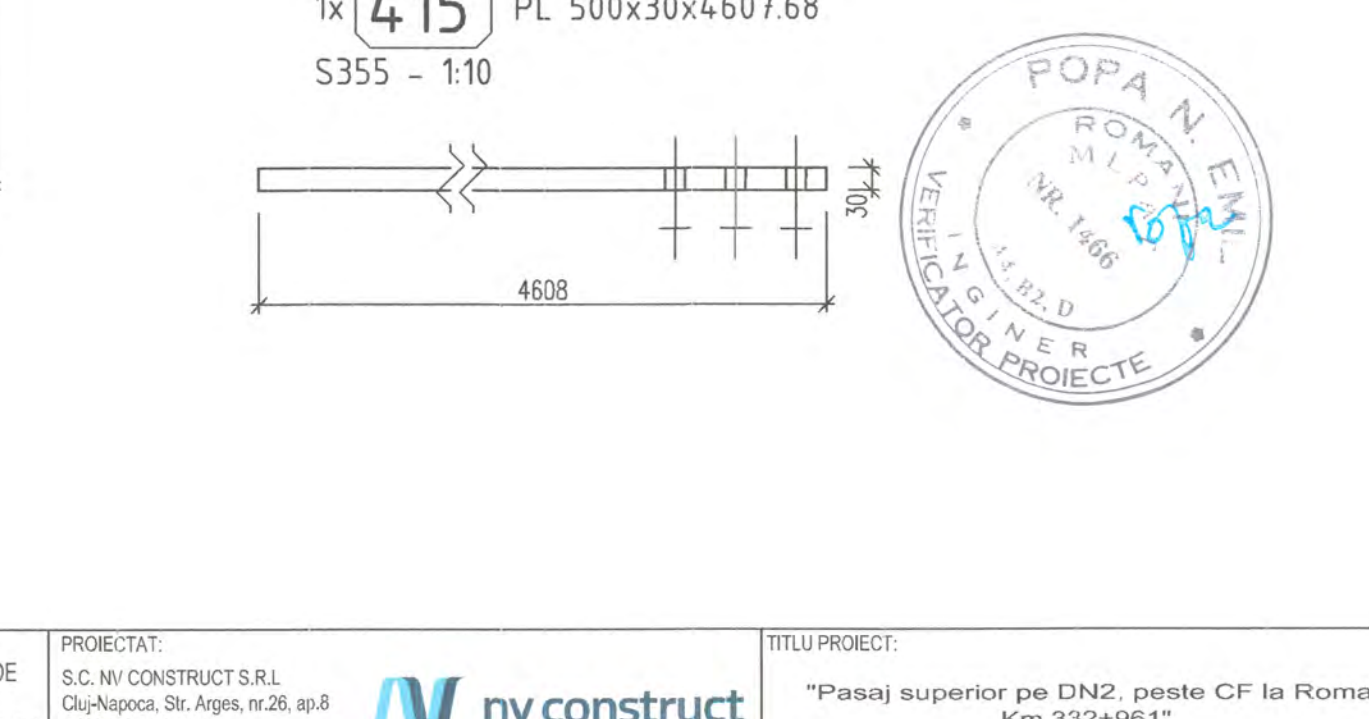
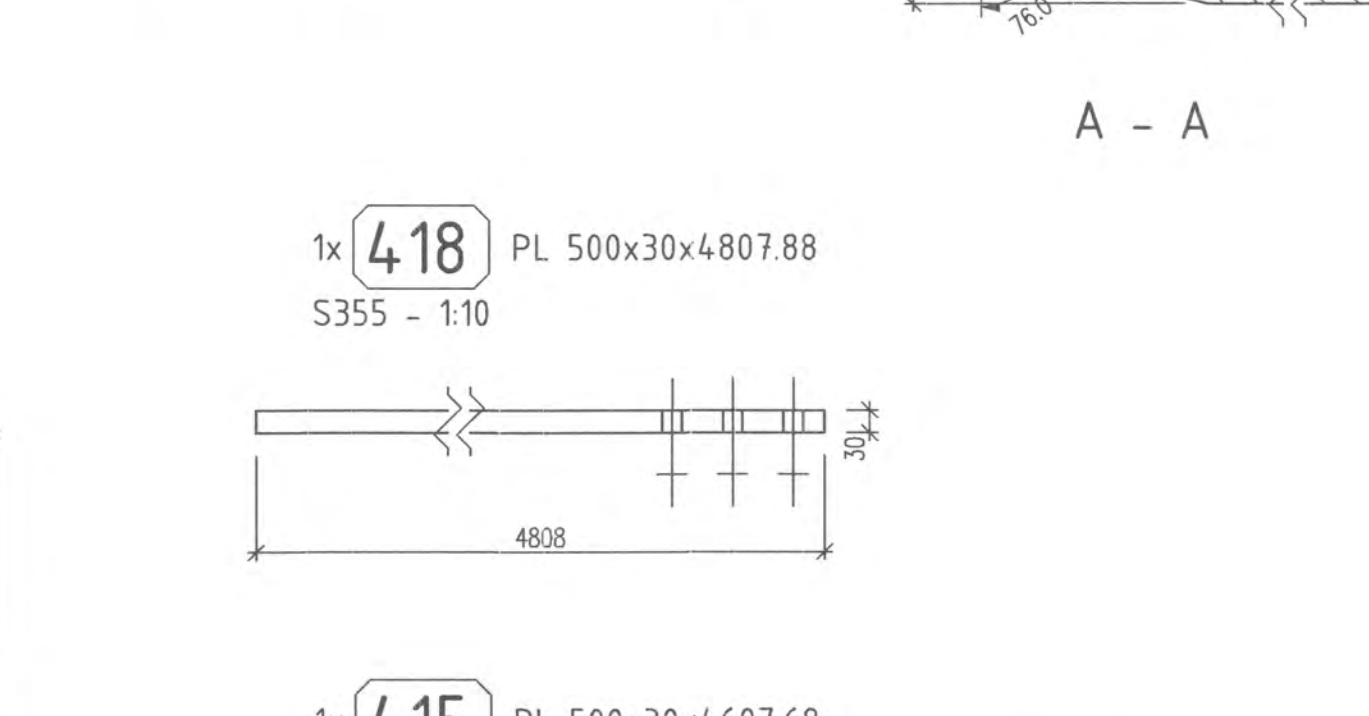
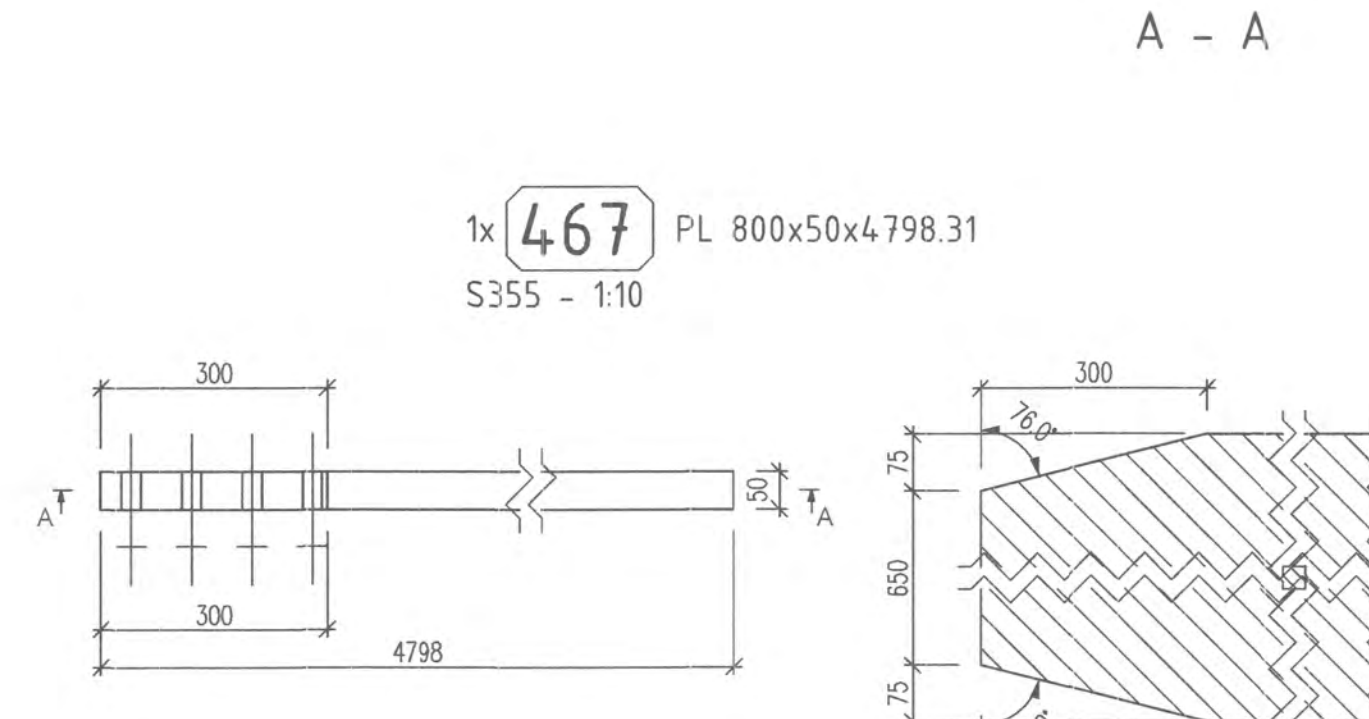
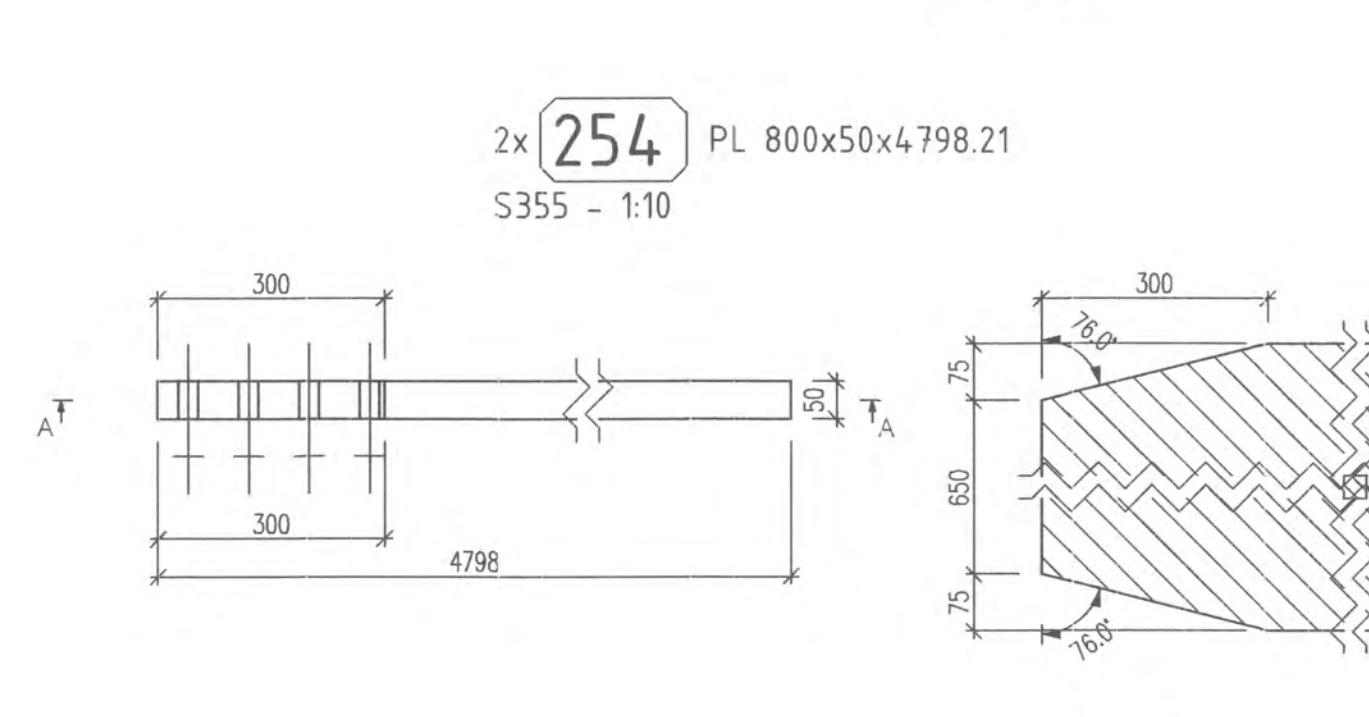
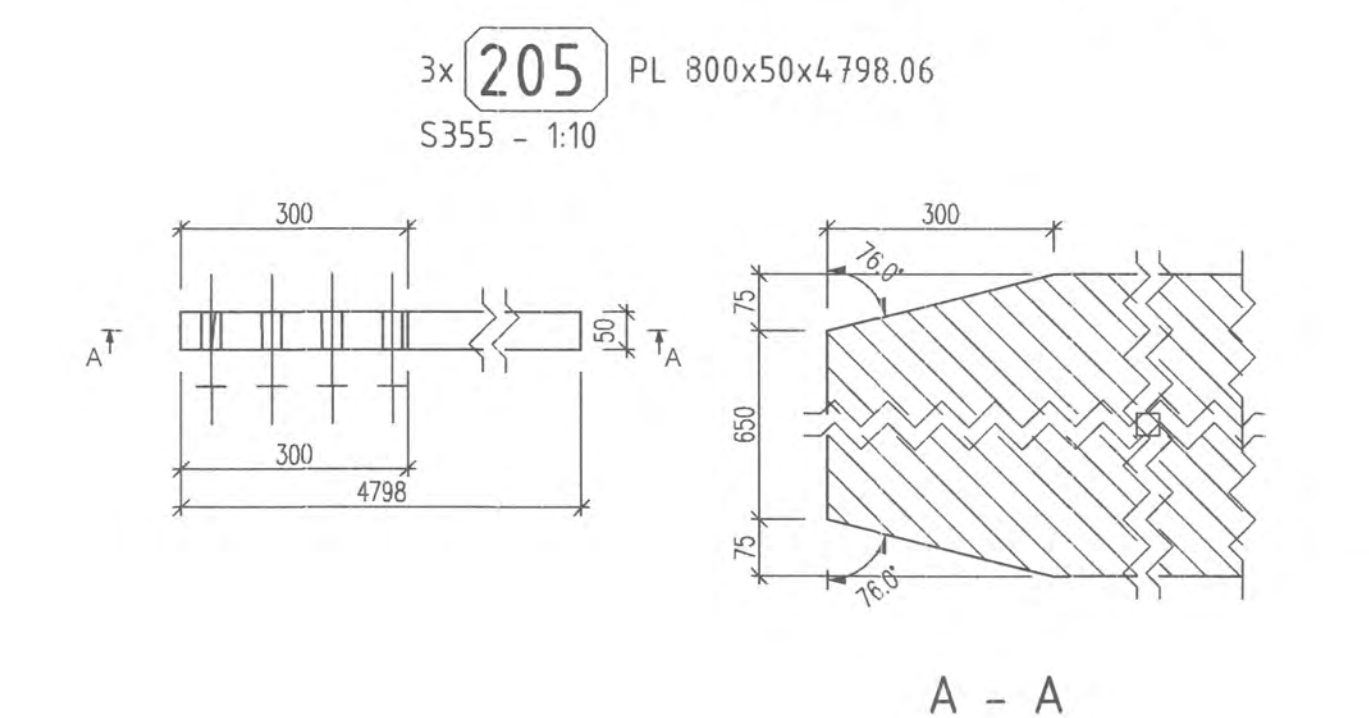
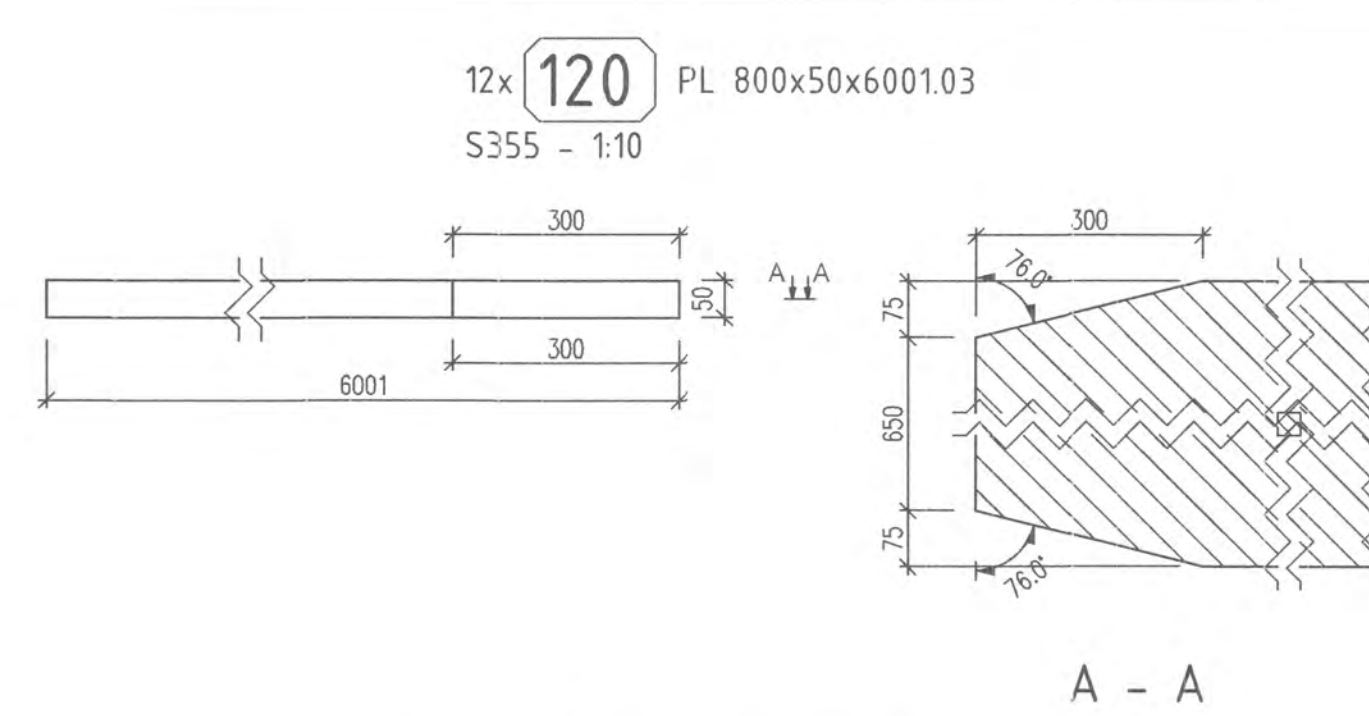
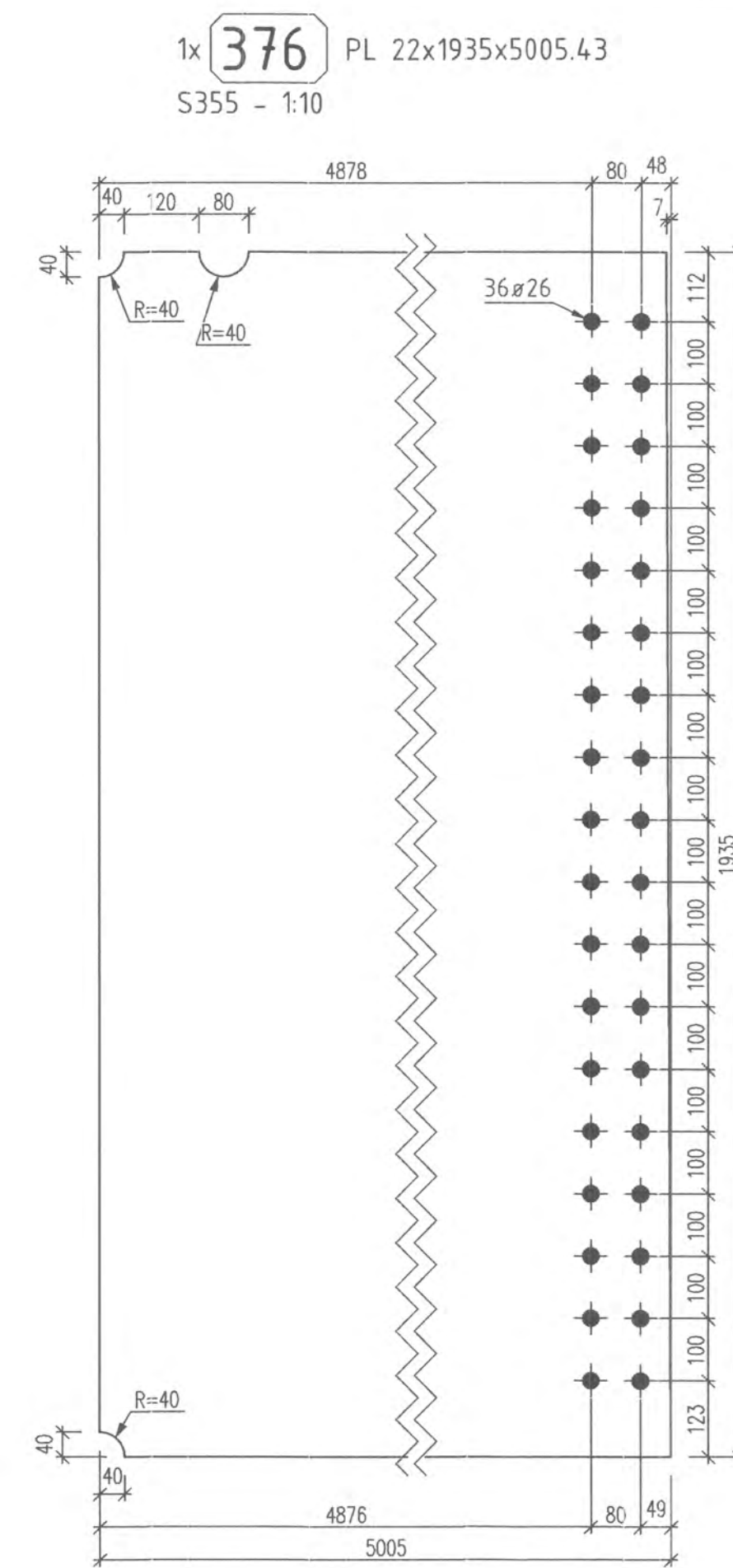
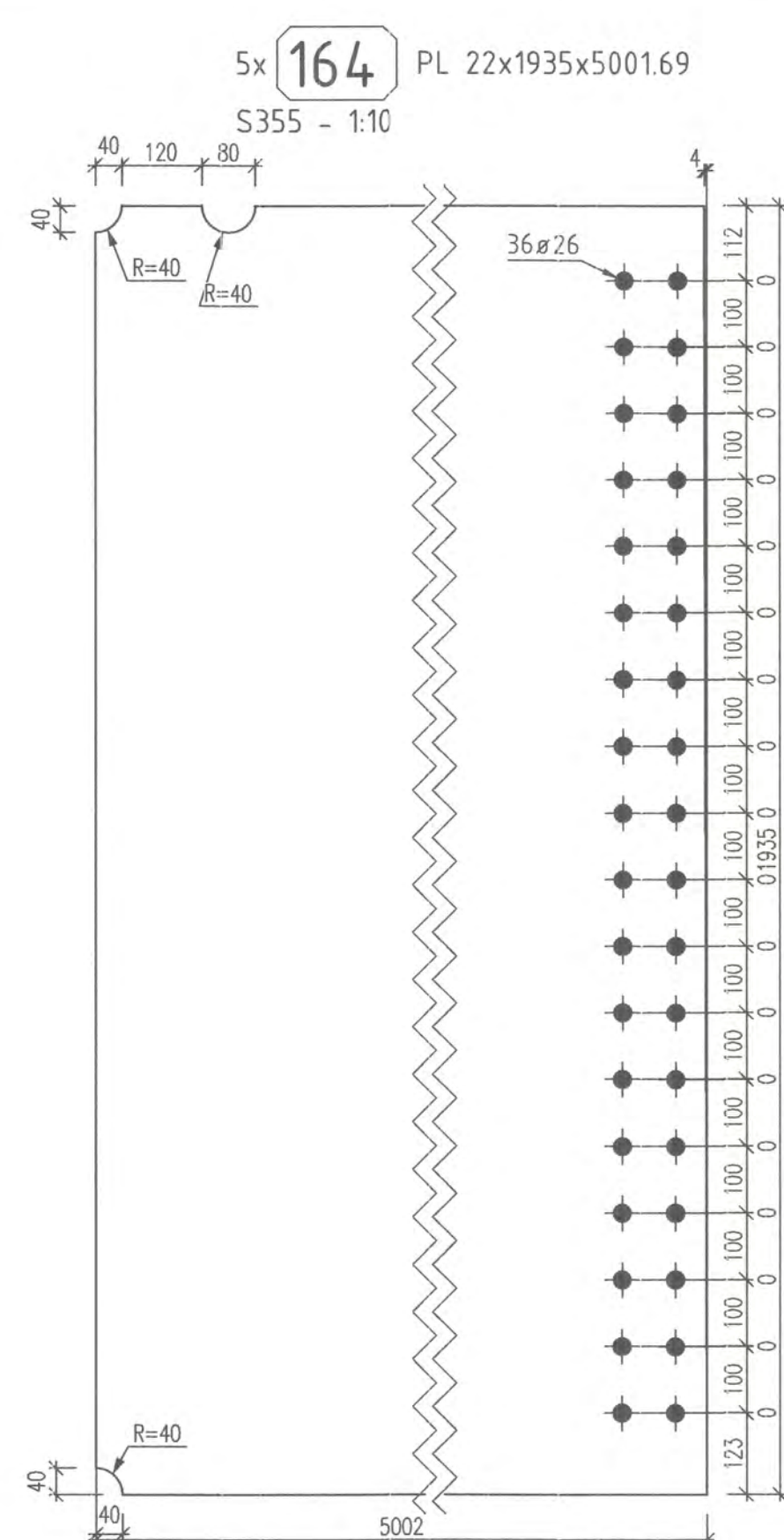
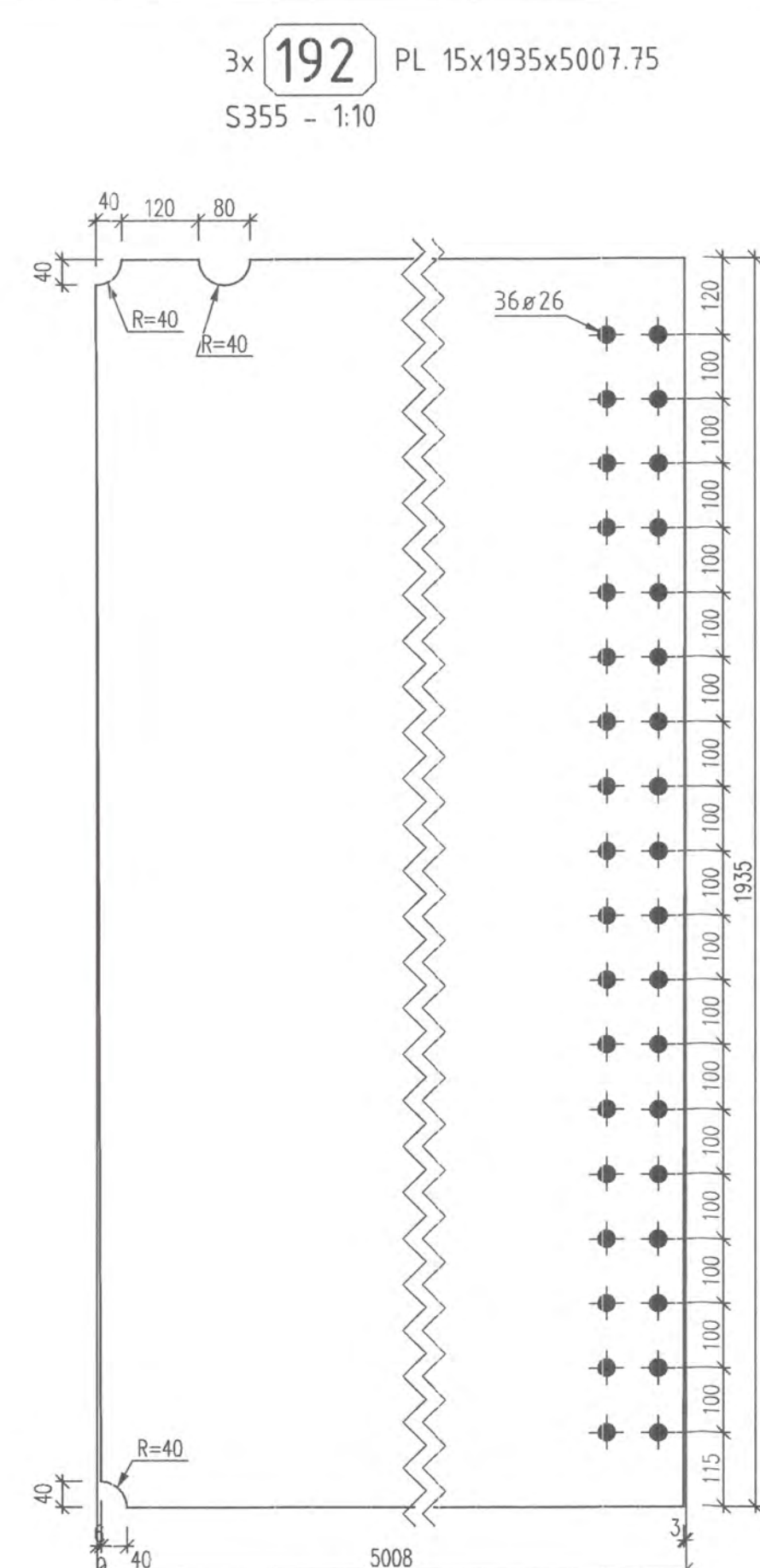
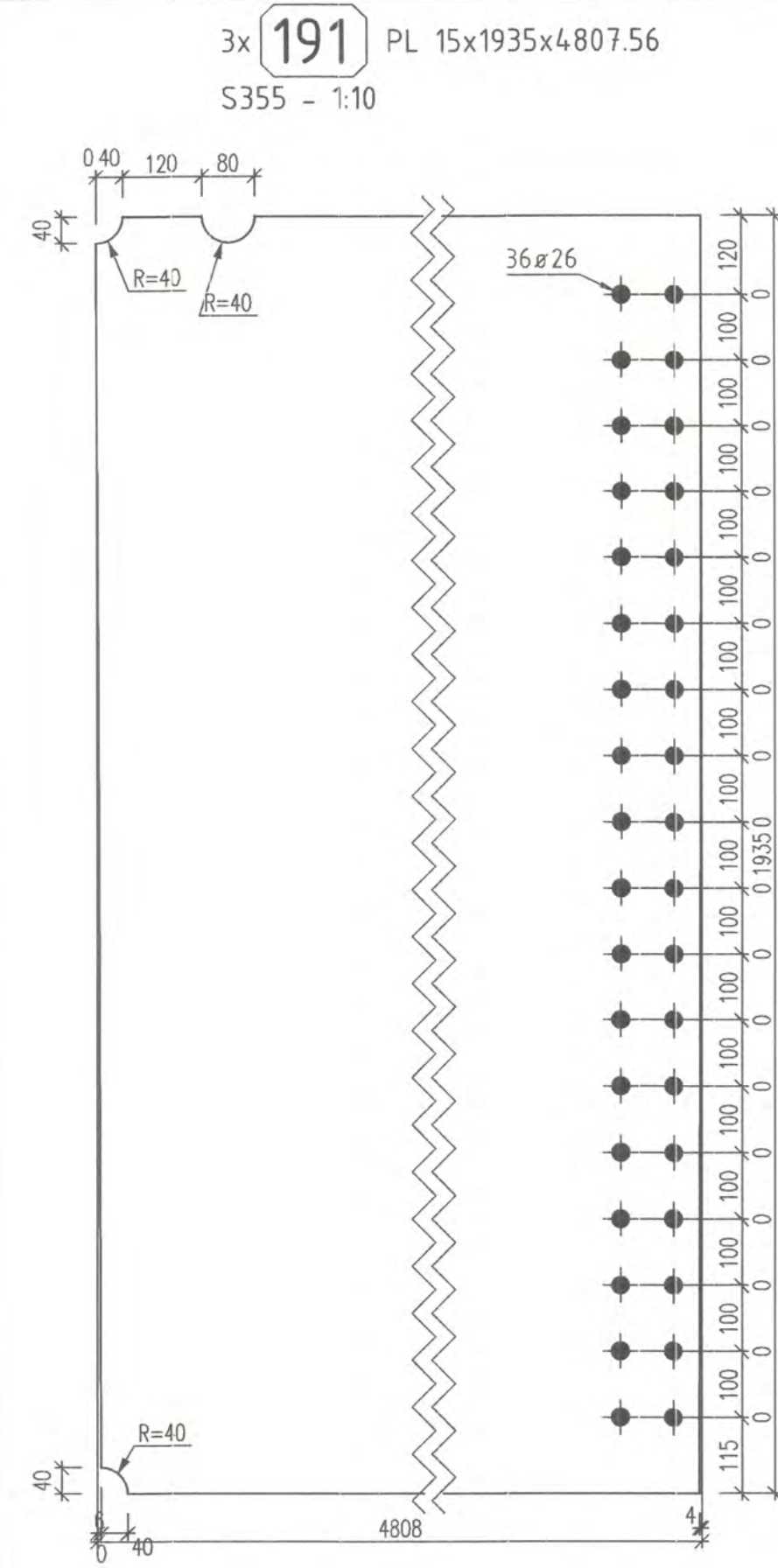
Plan ansamblu 1026



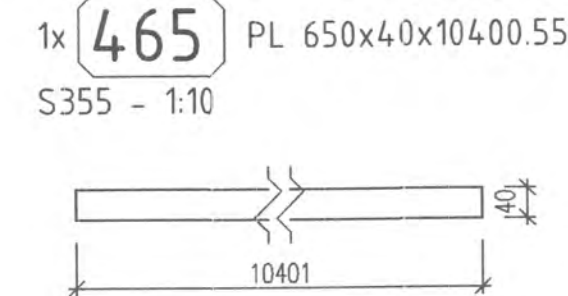
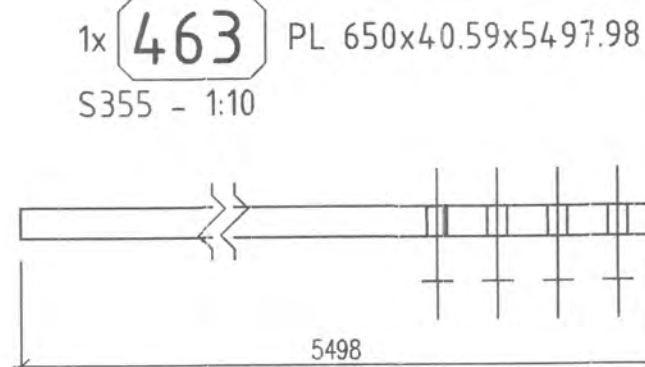
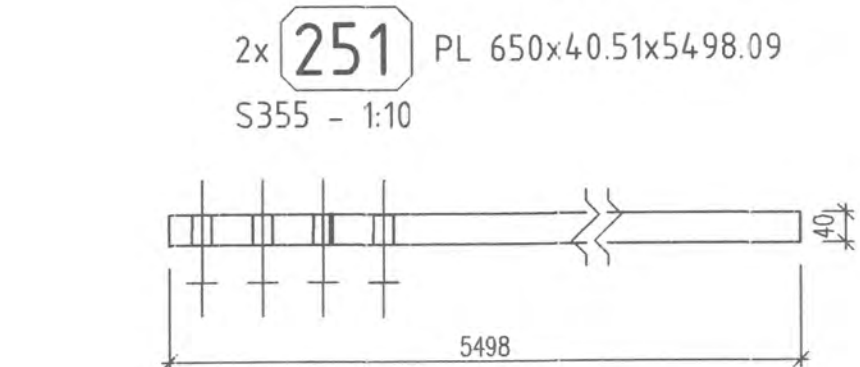
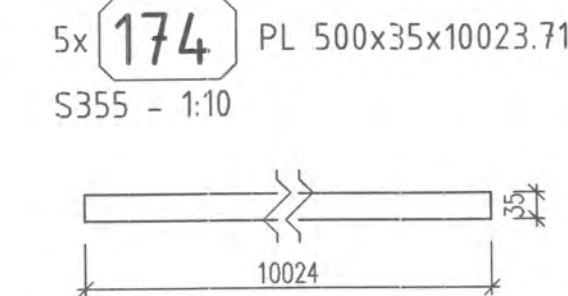
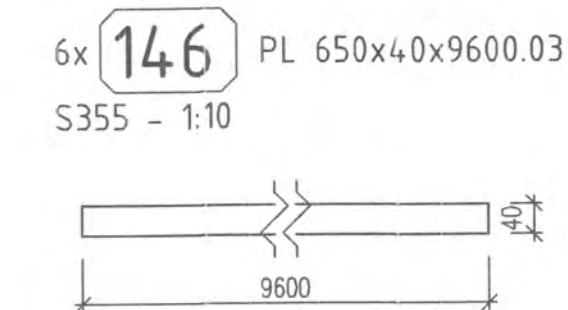
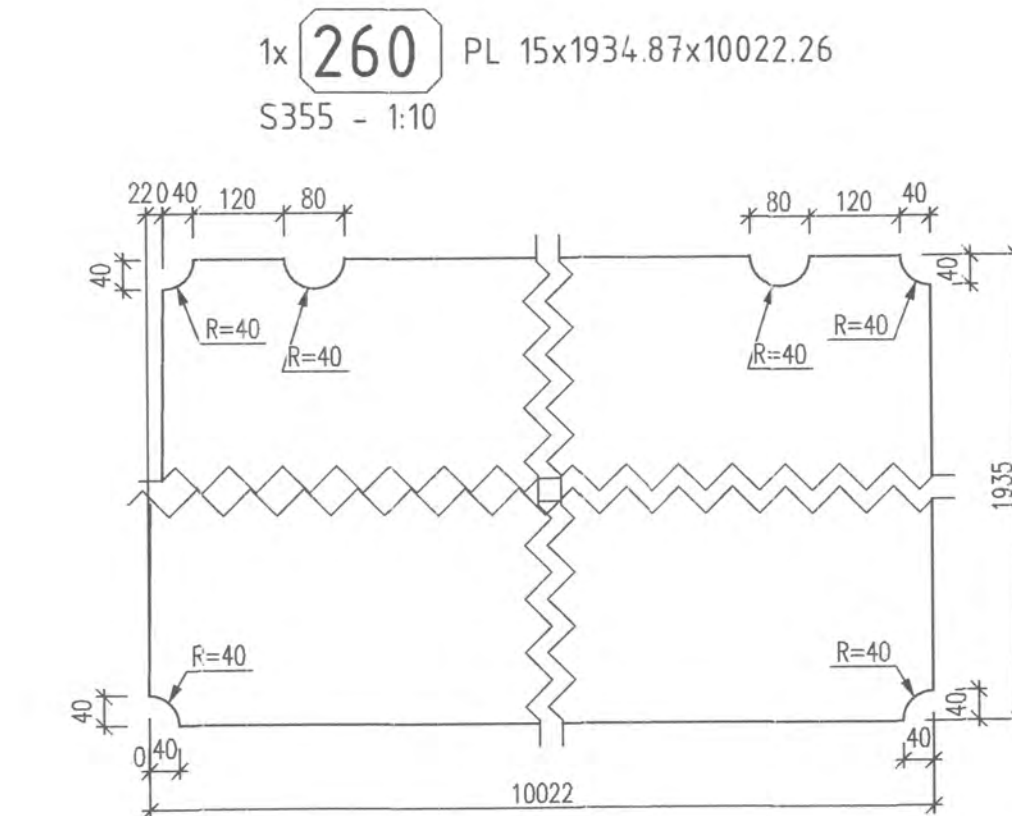
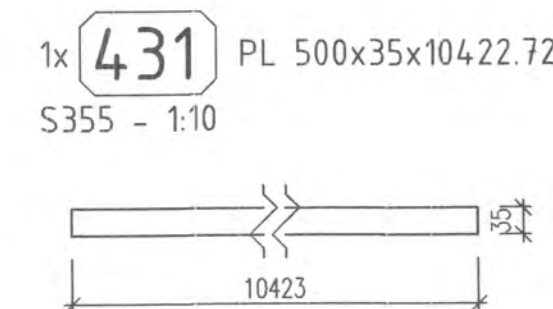
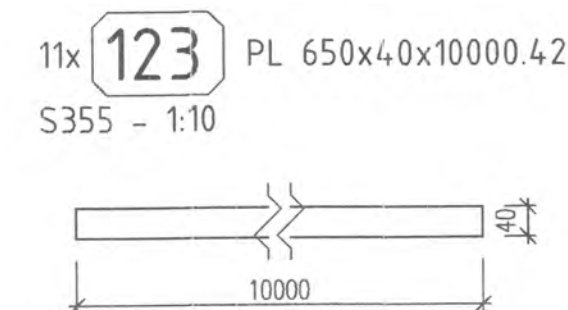
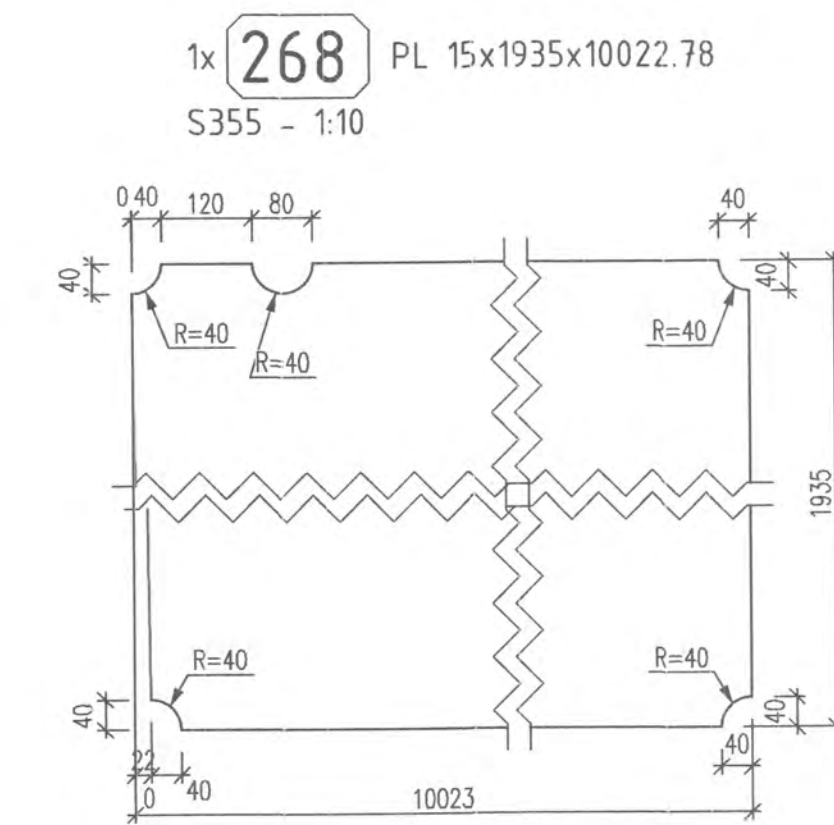
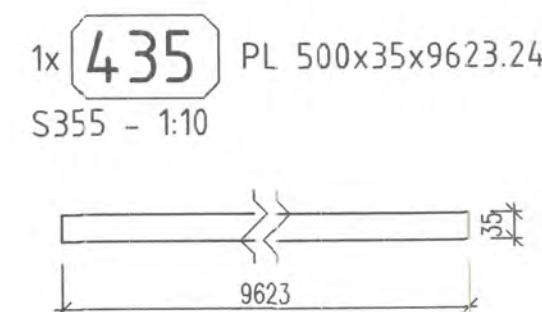
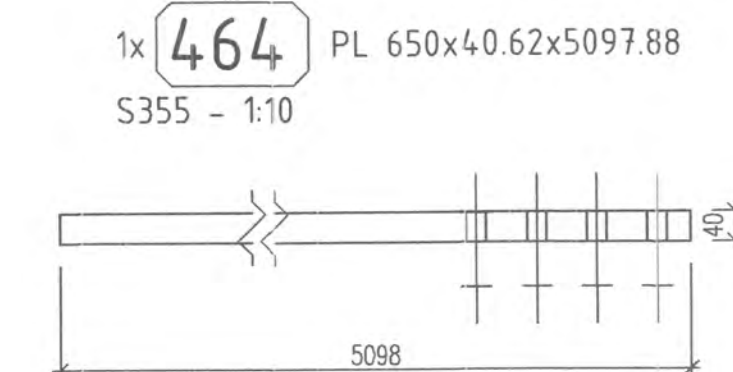
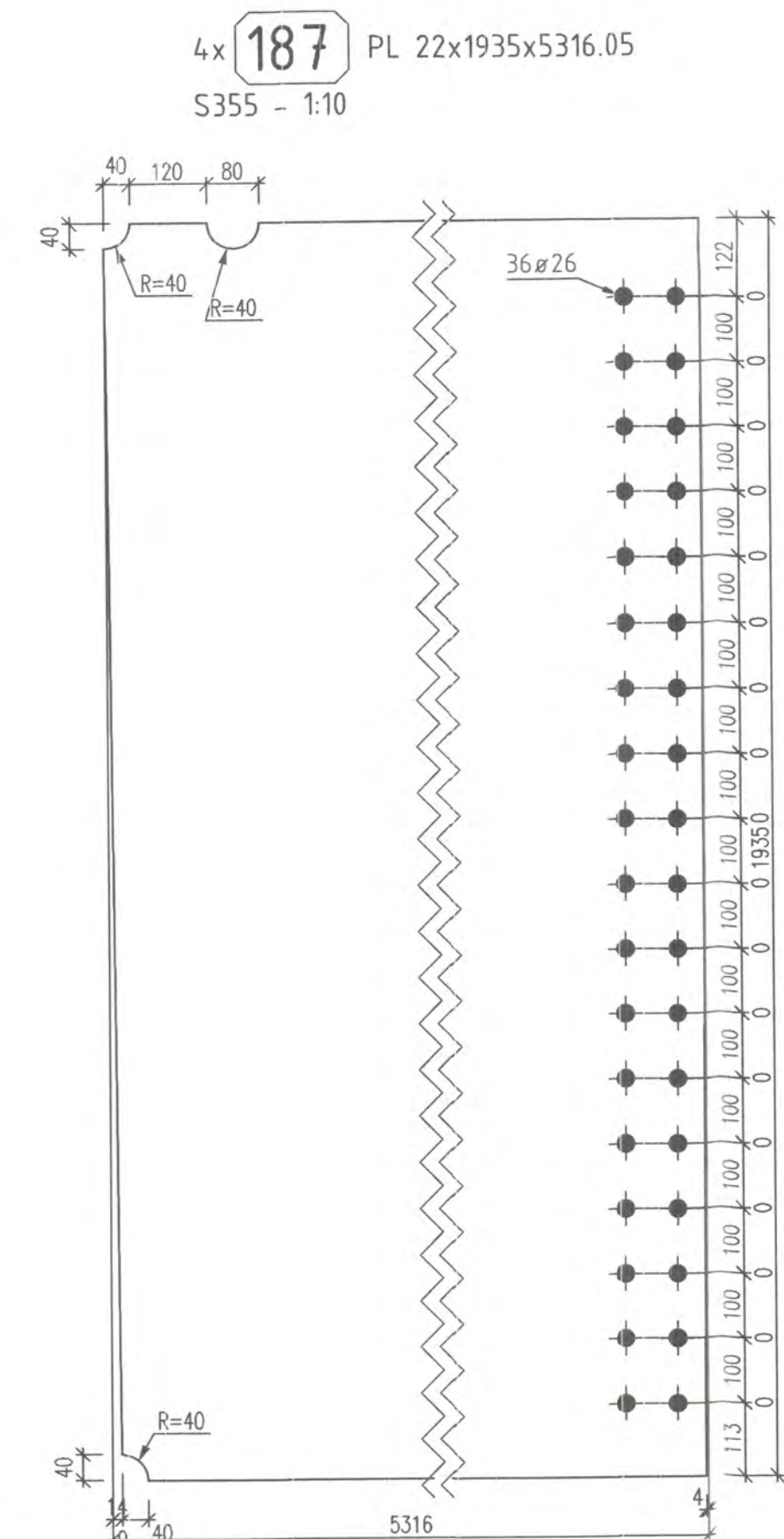
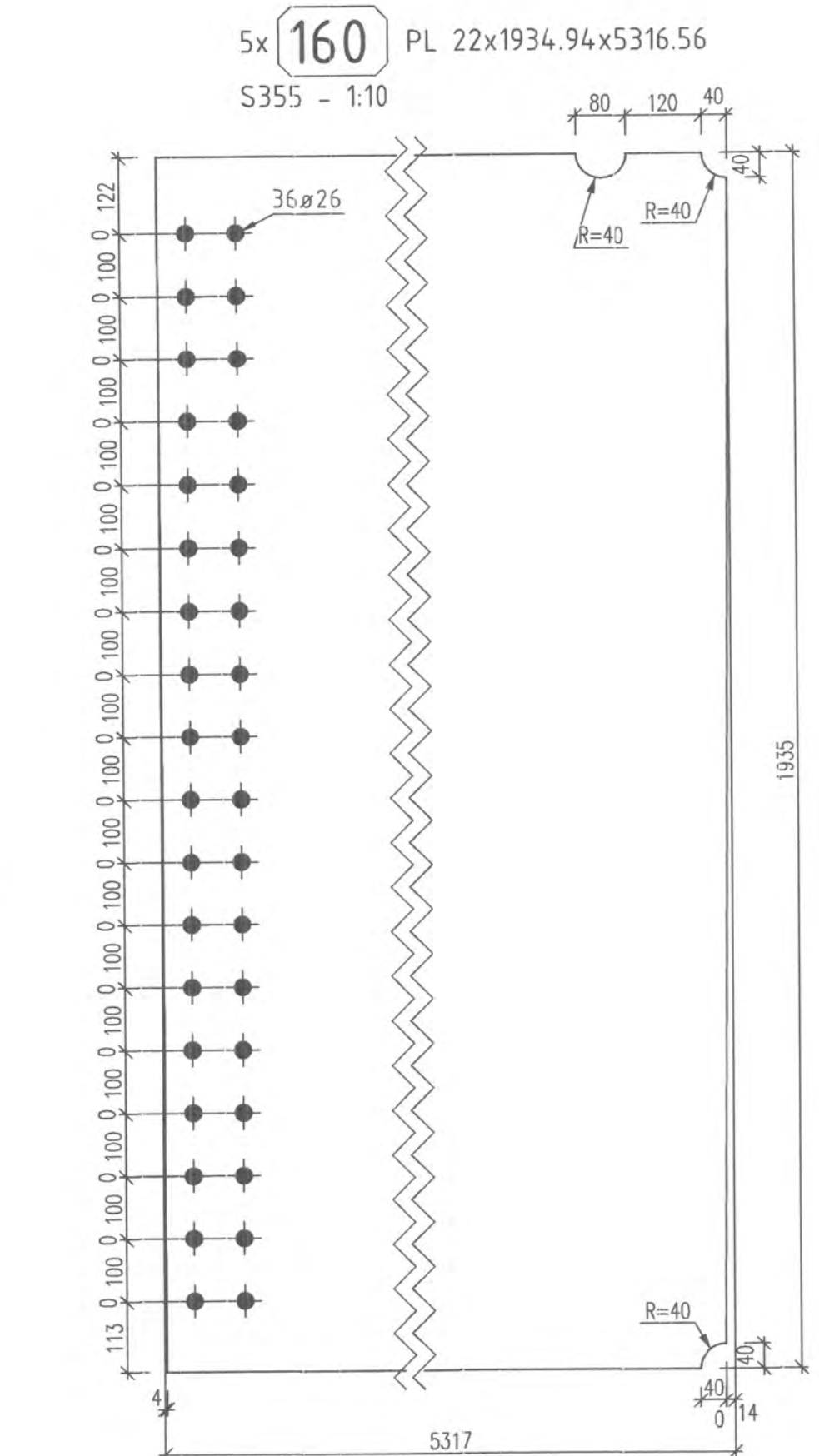
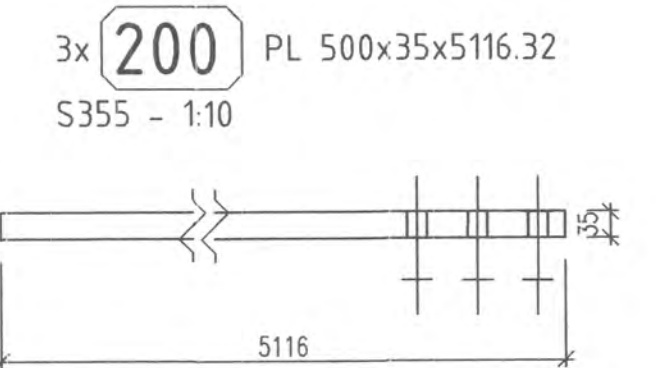
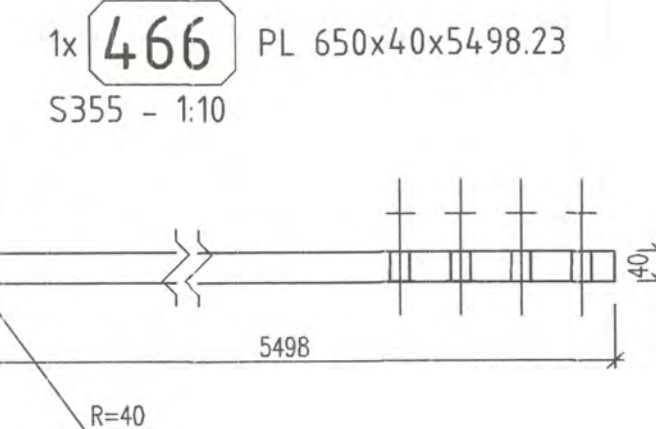
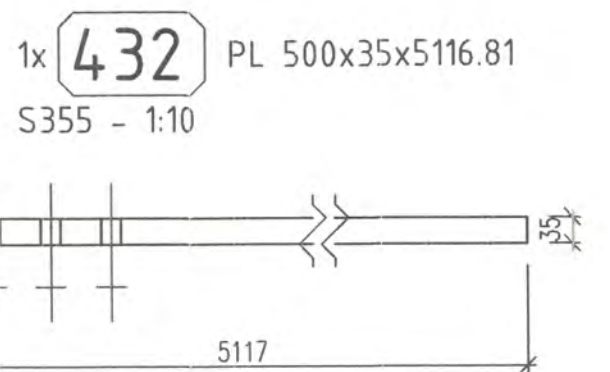
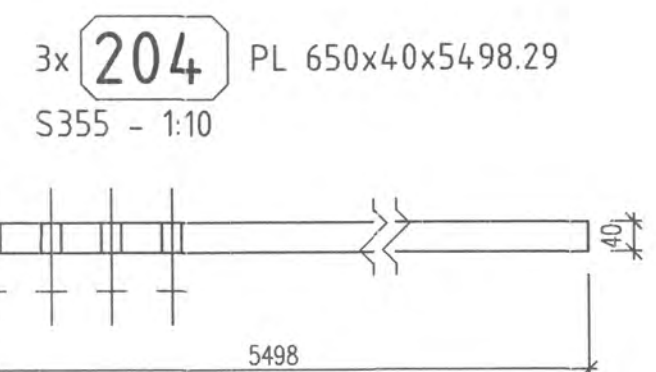
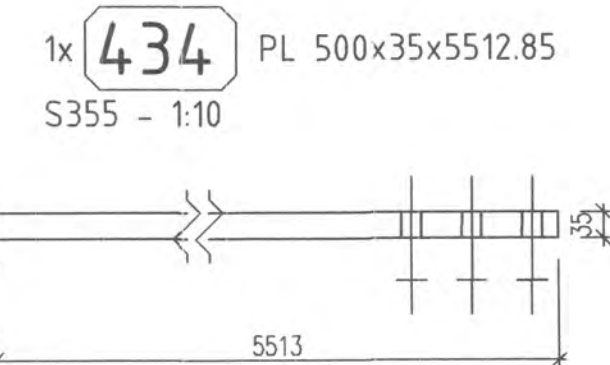
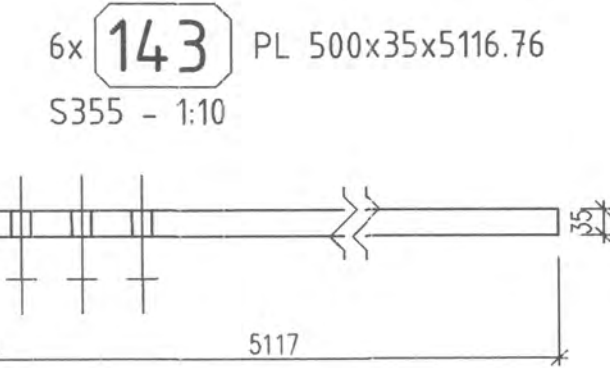
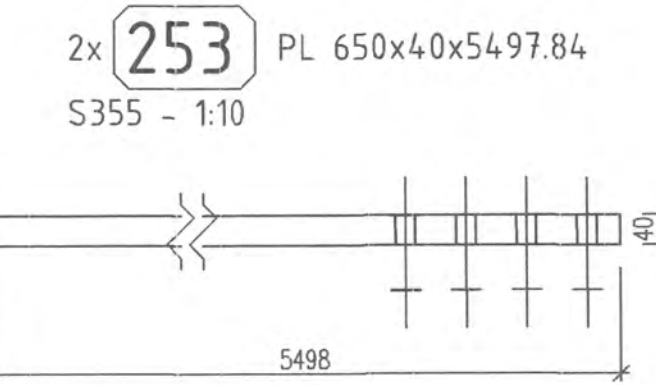
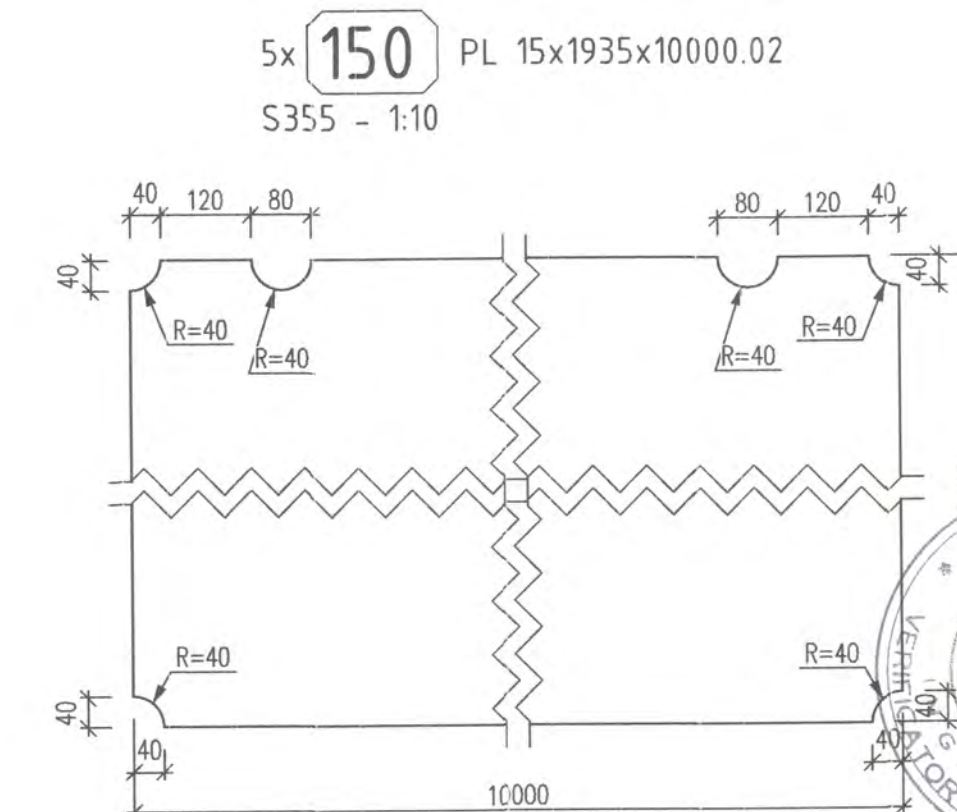
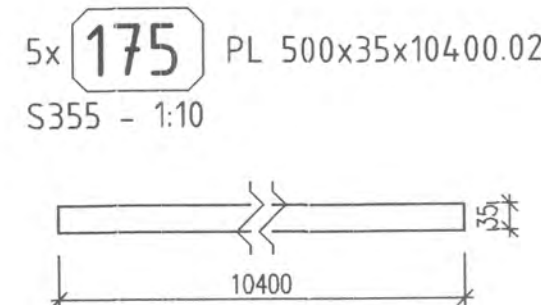
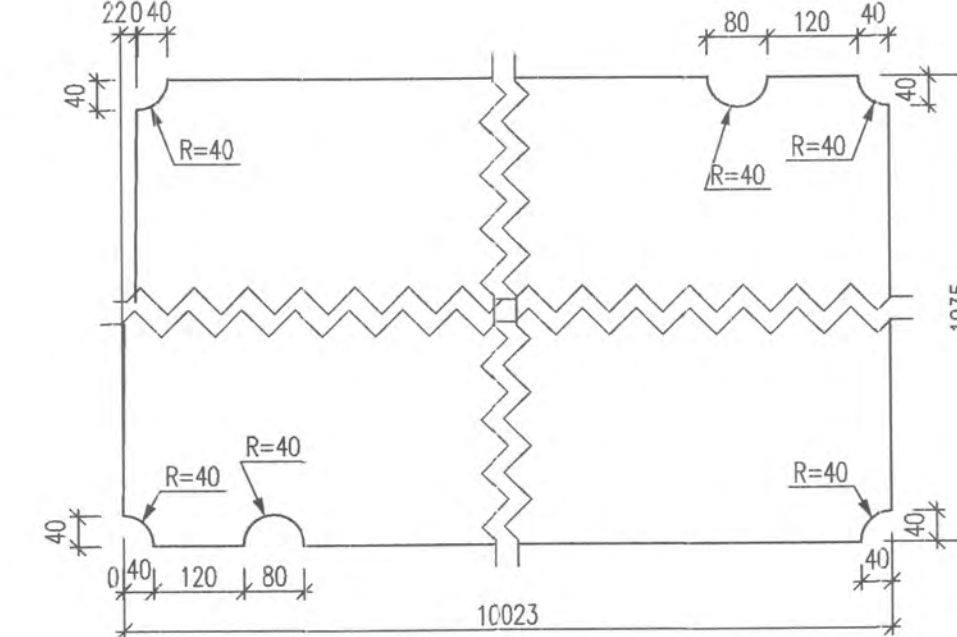
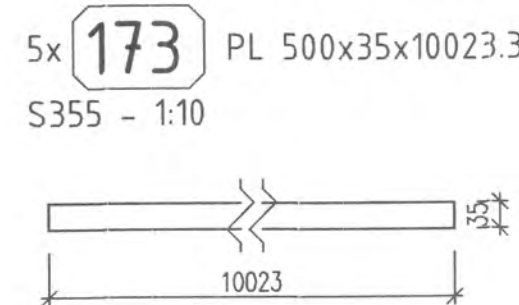
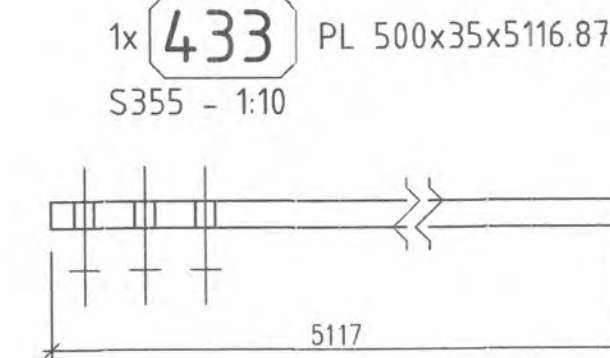
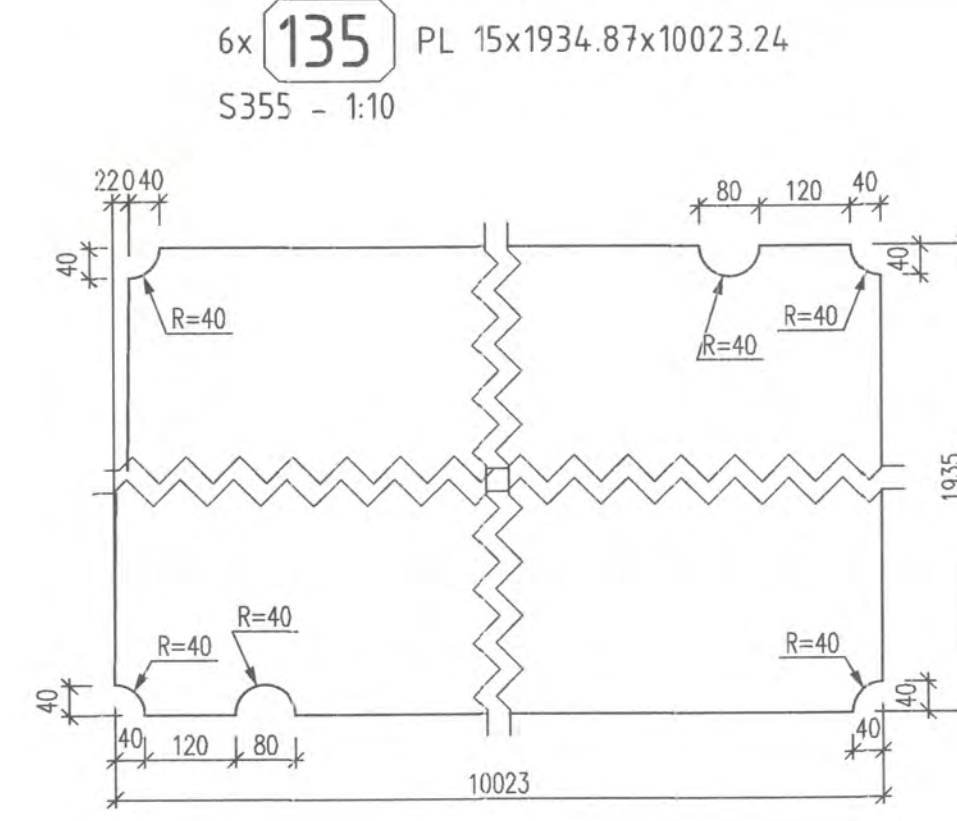
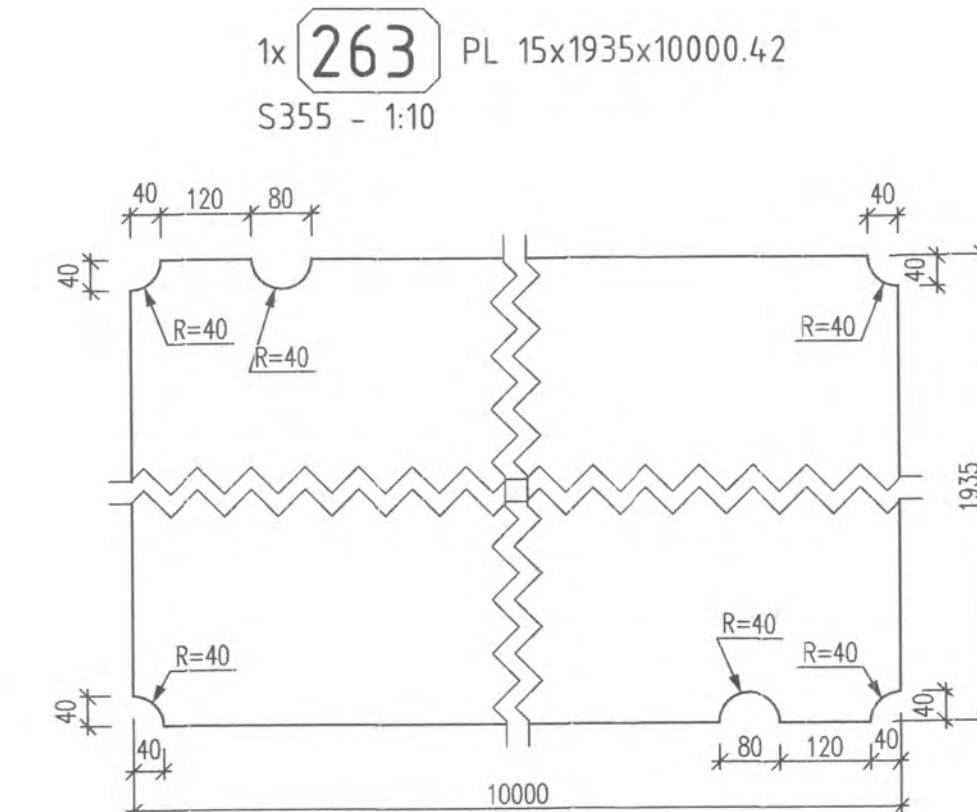
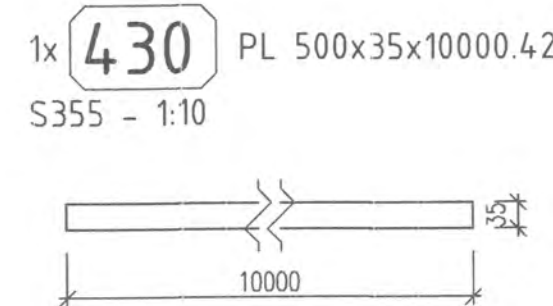
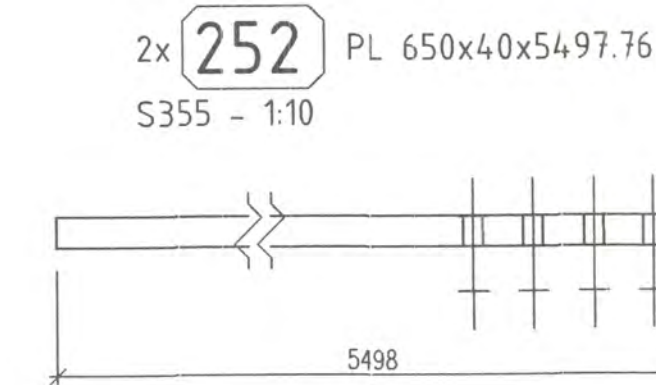
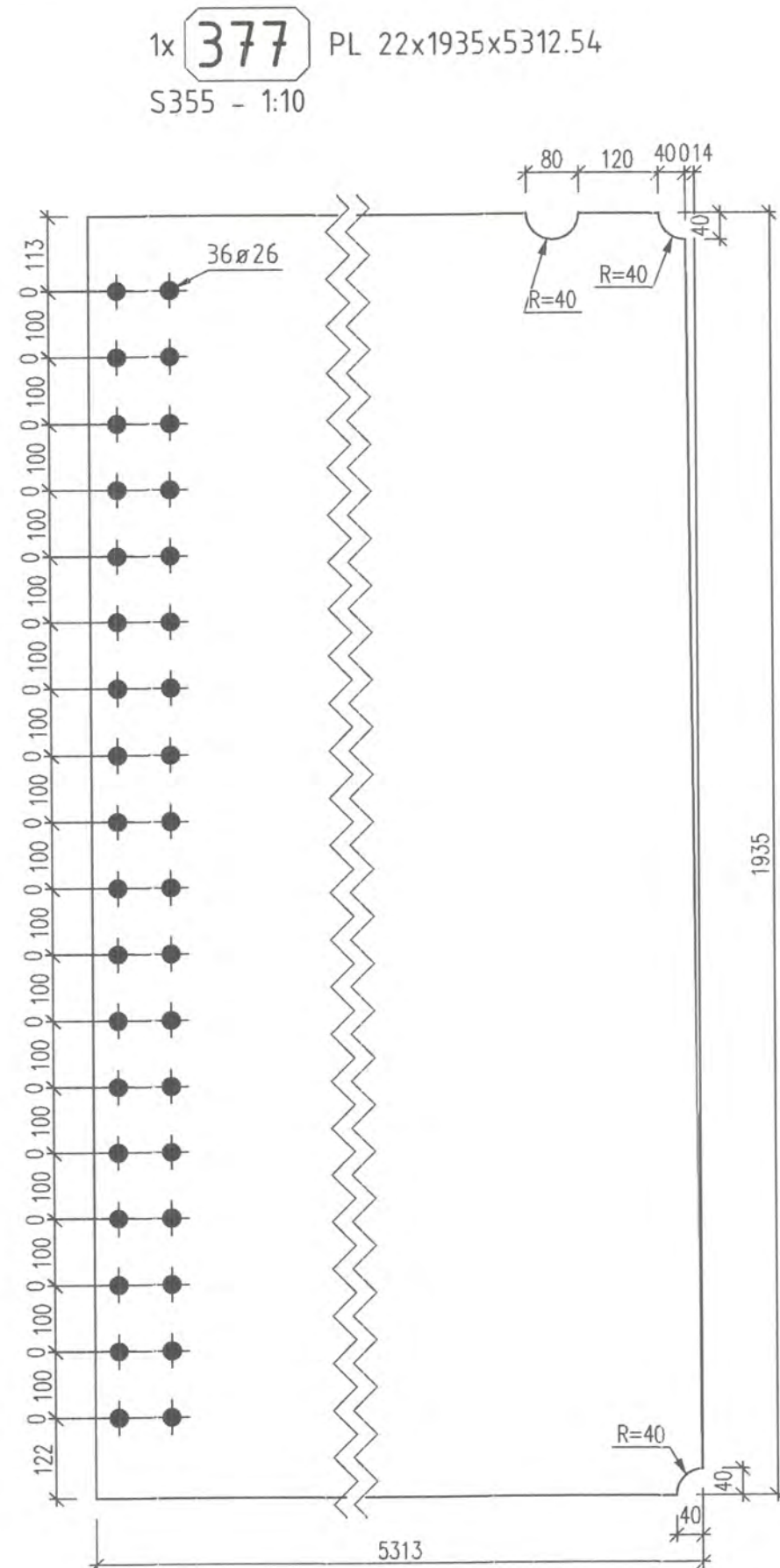
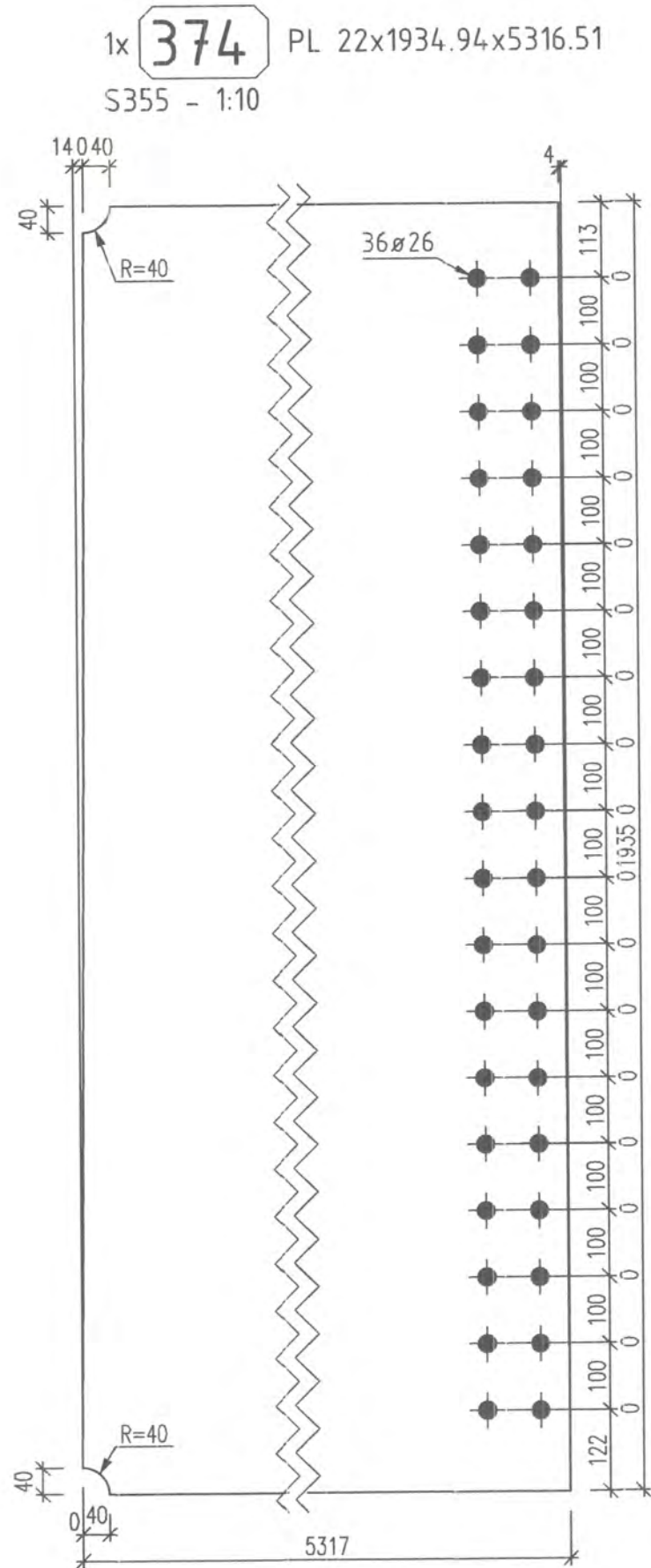
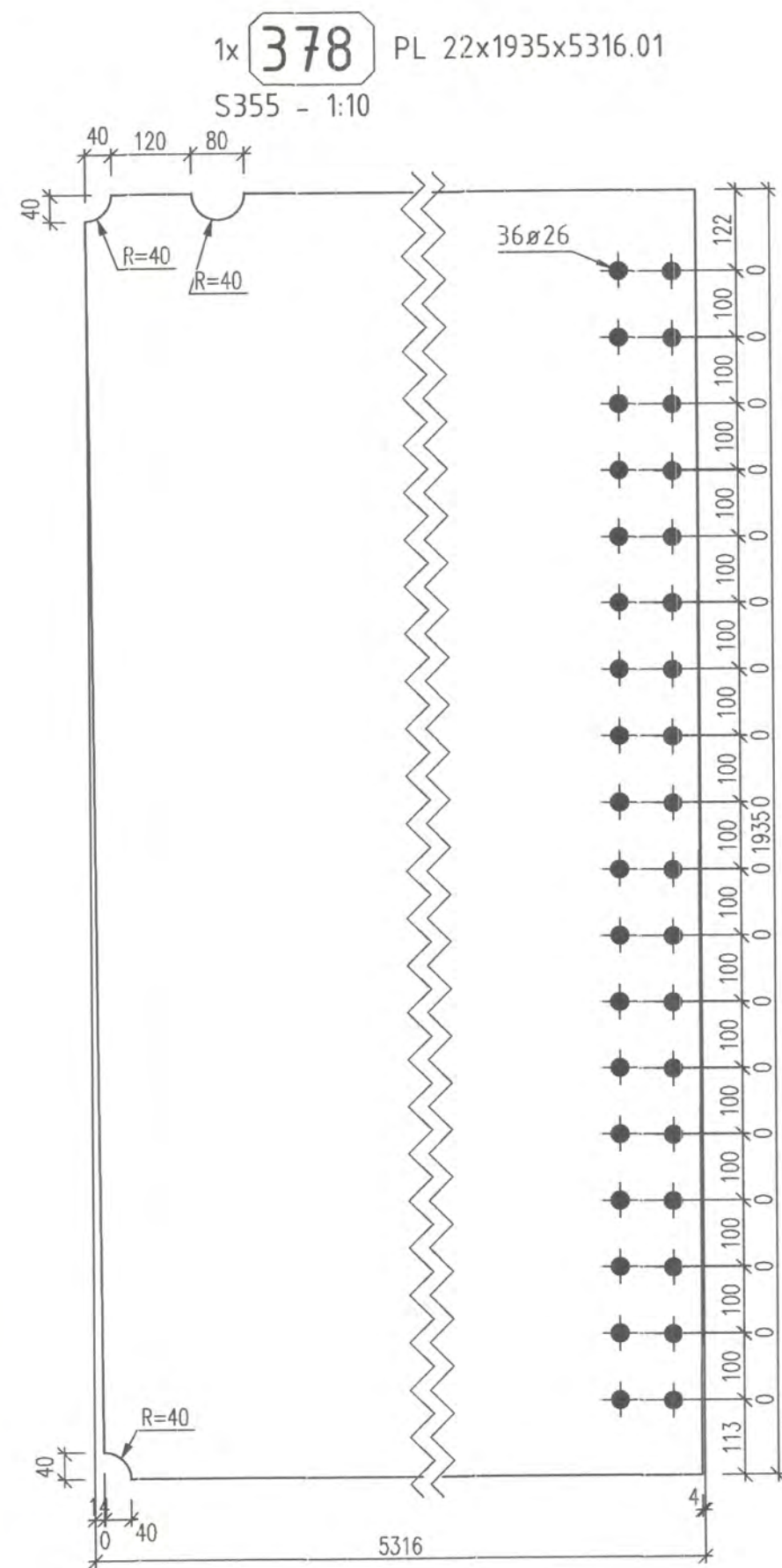
1x  PL 15x1935x5702.44  
S 355 1:10



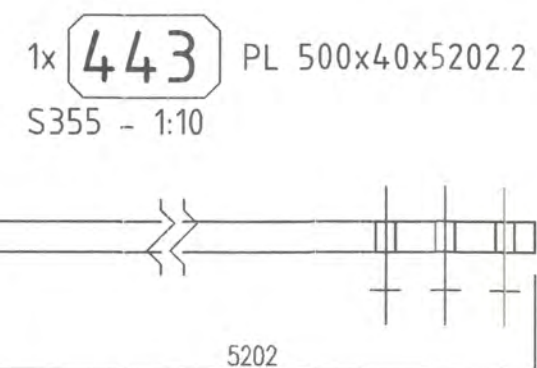
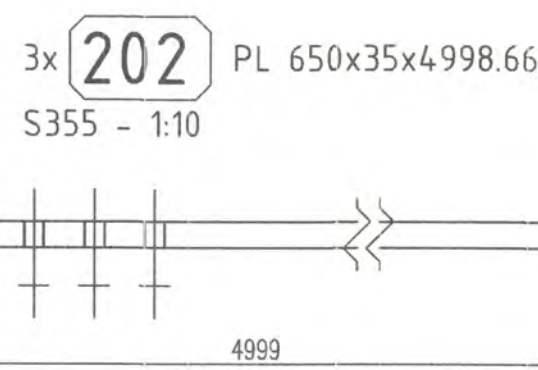
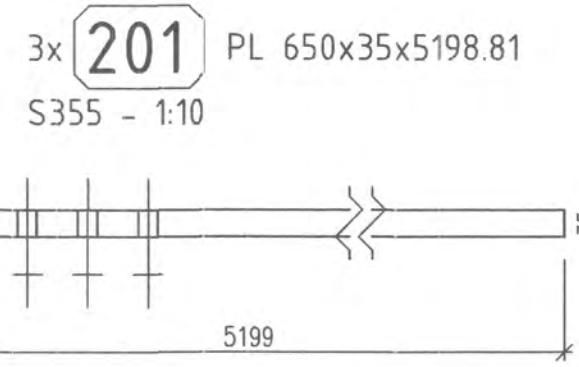
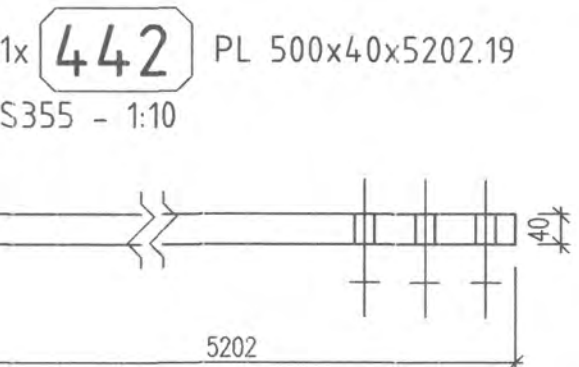
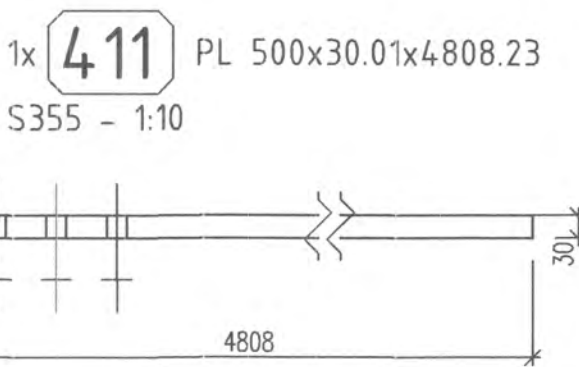
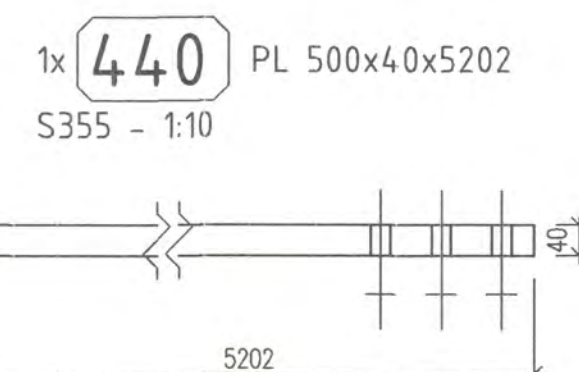
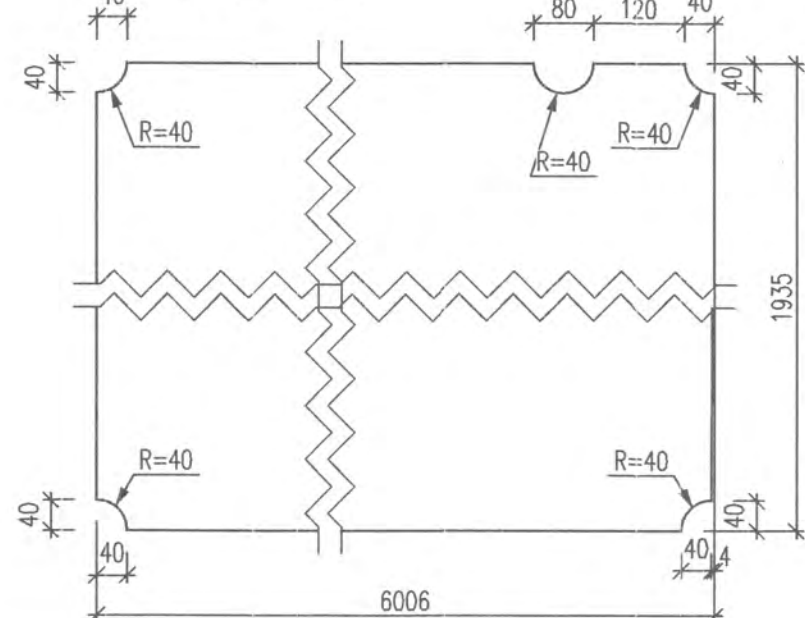
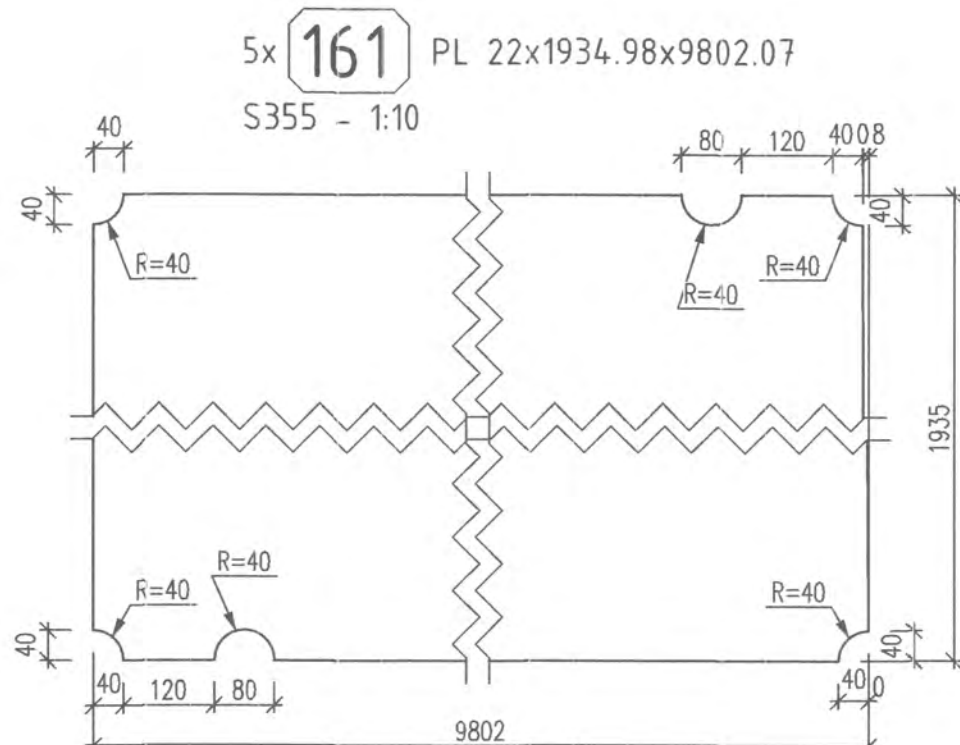
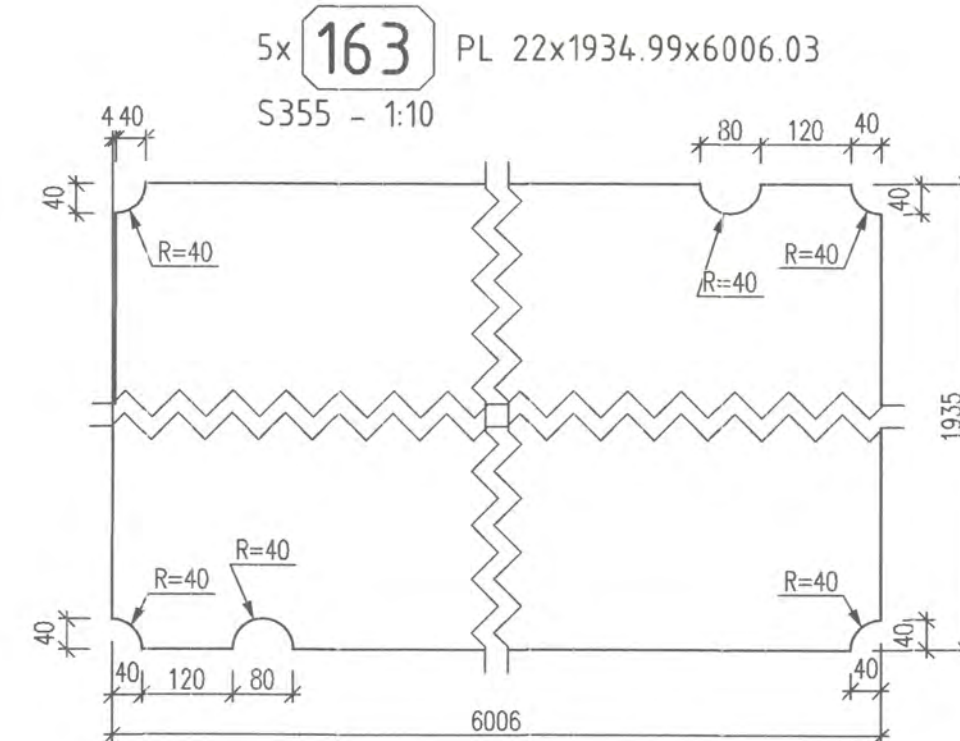
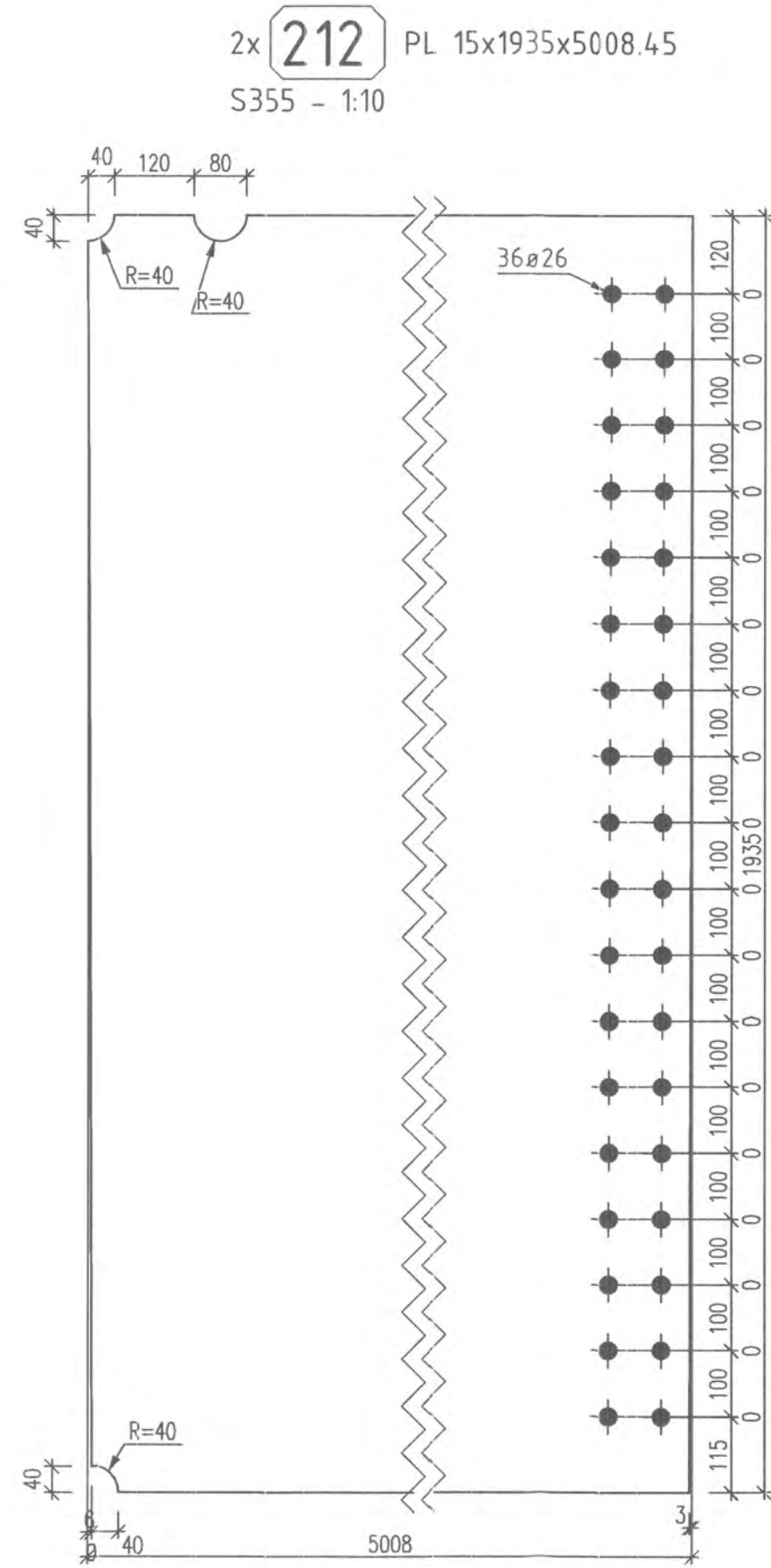
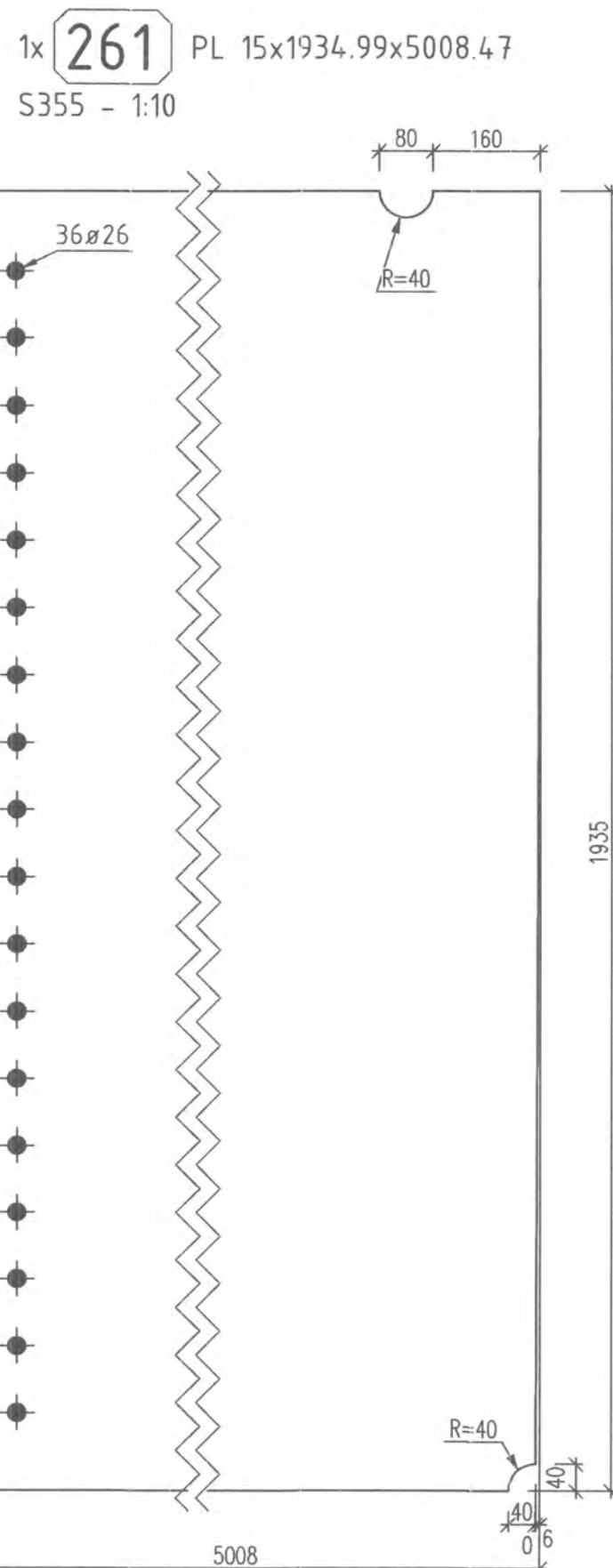
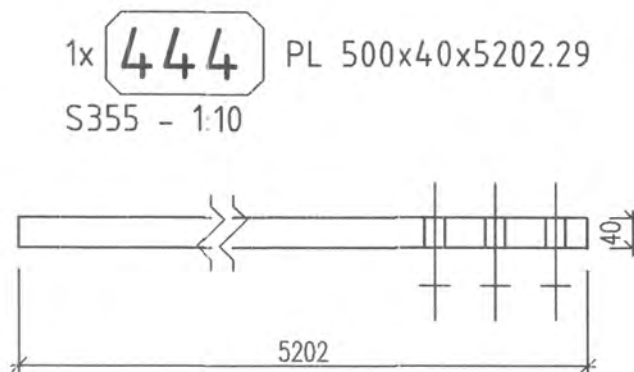
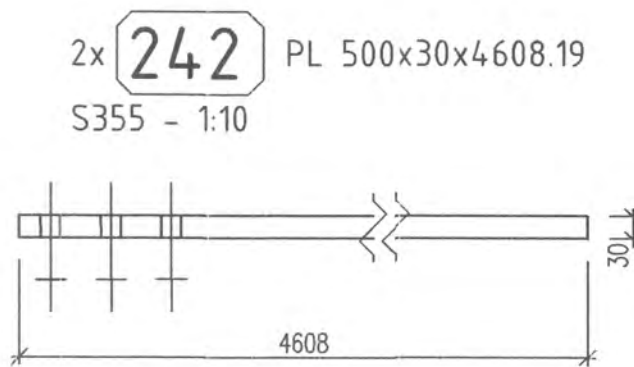
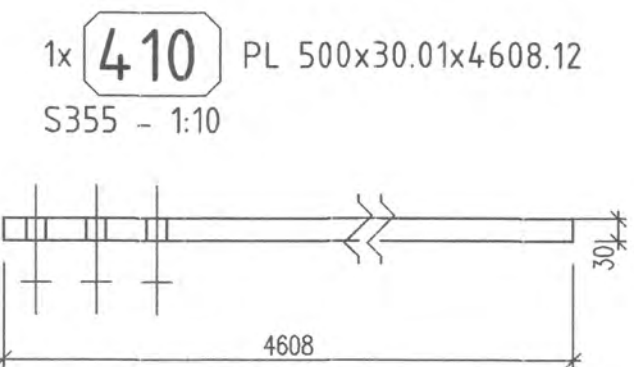
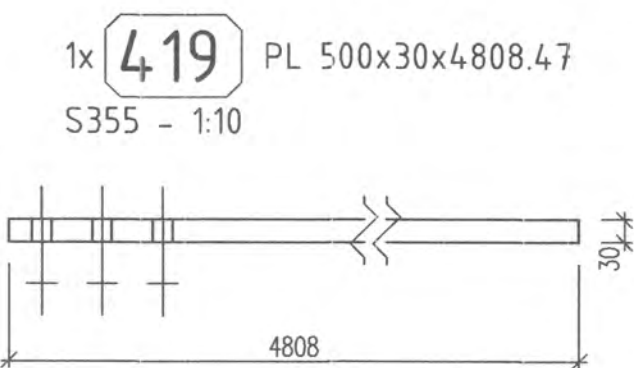
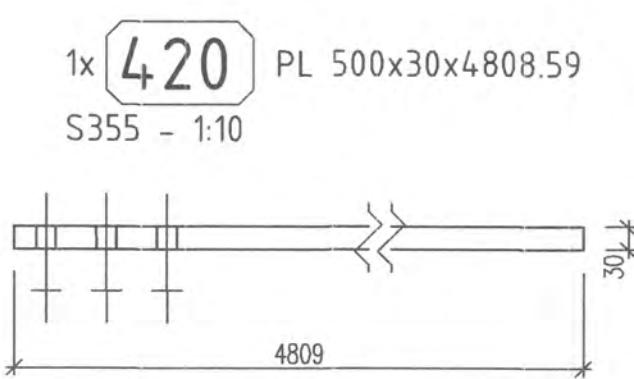
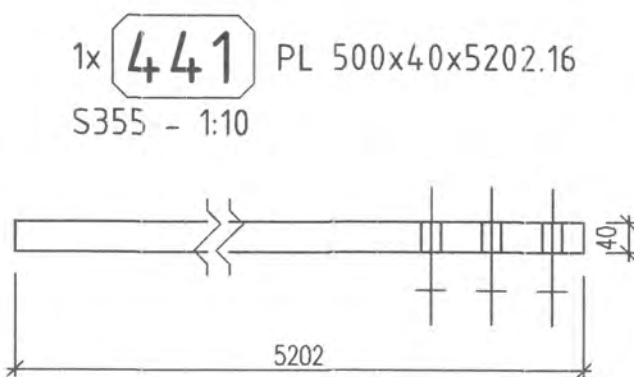
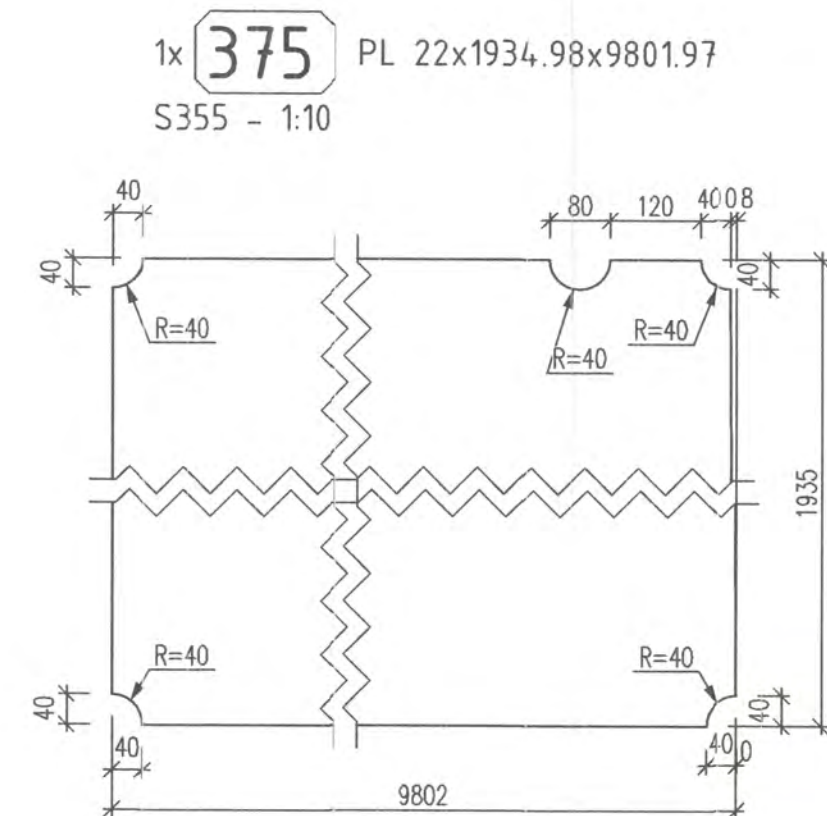
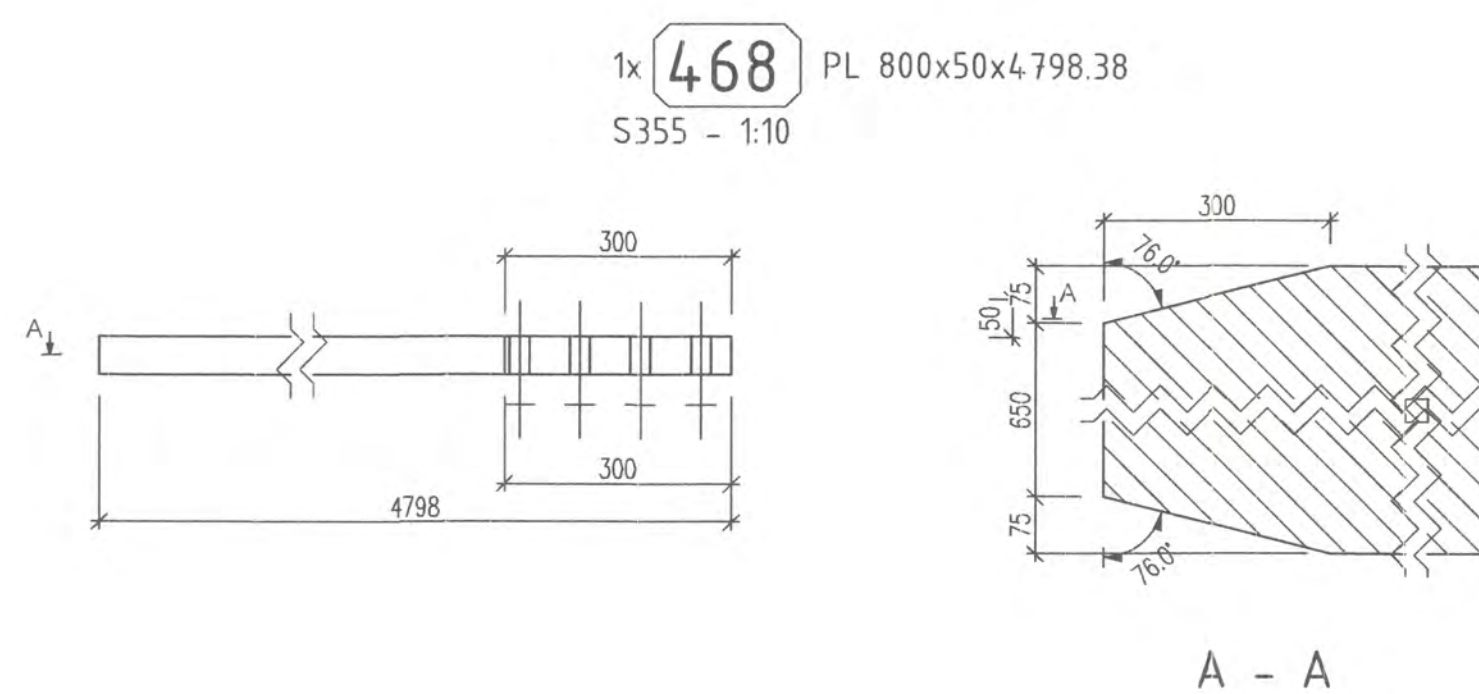
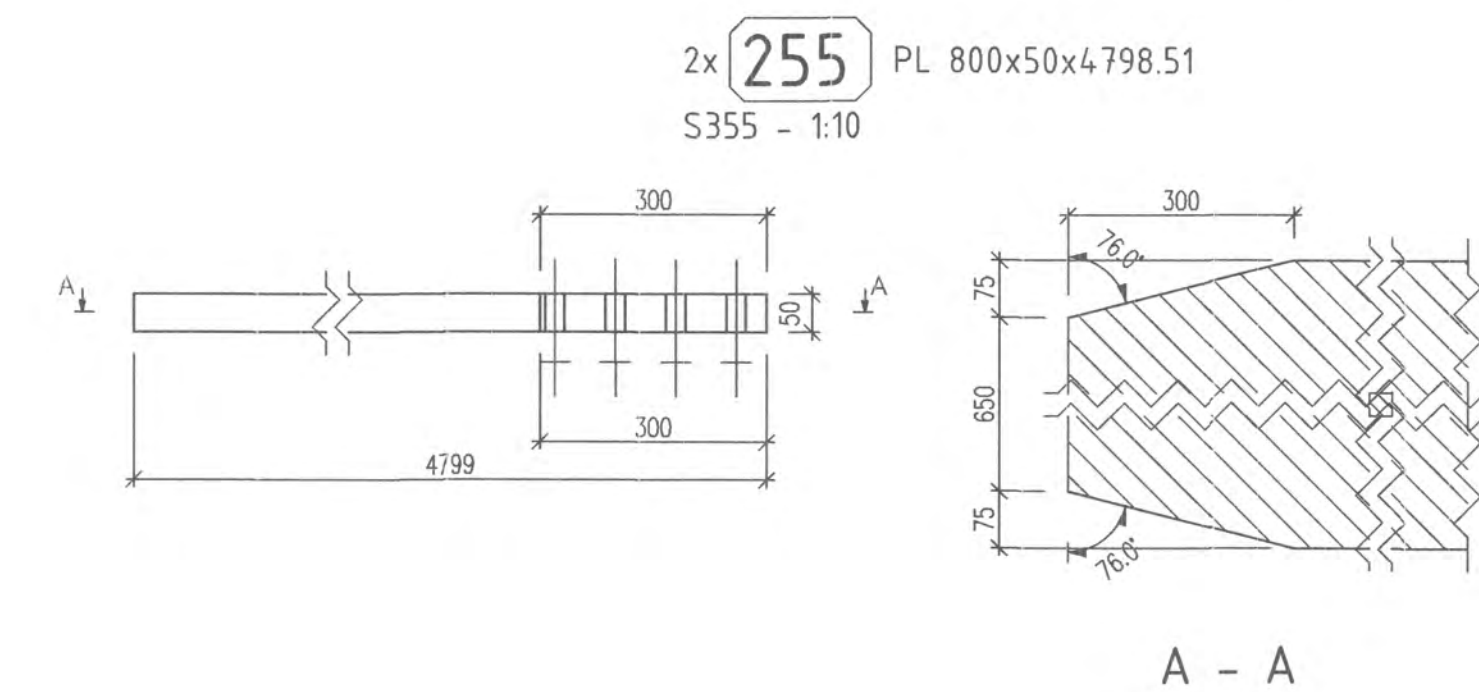
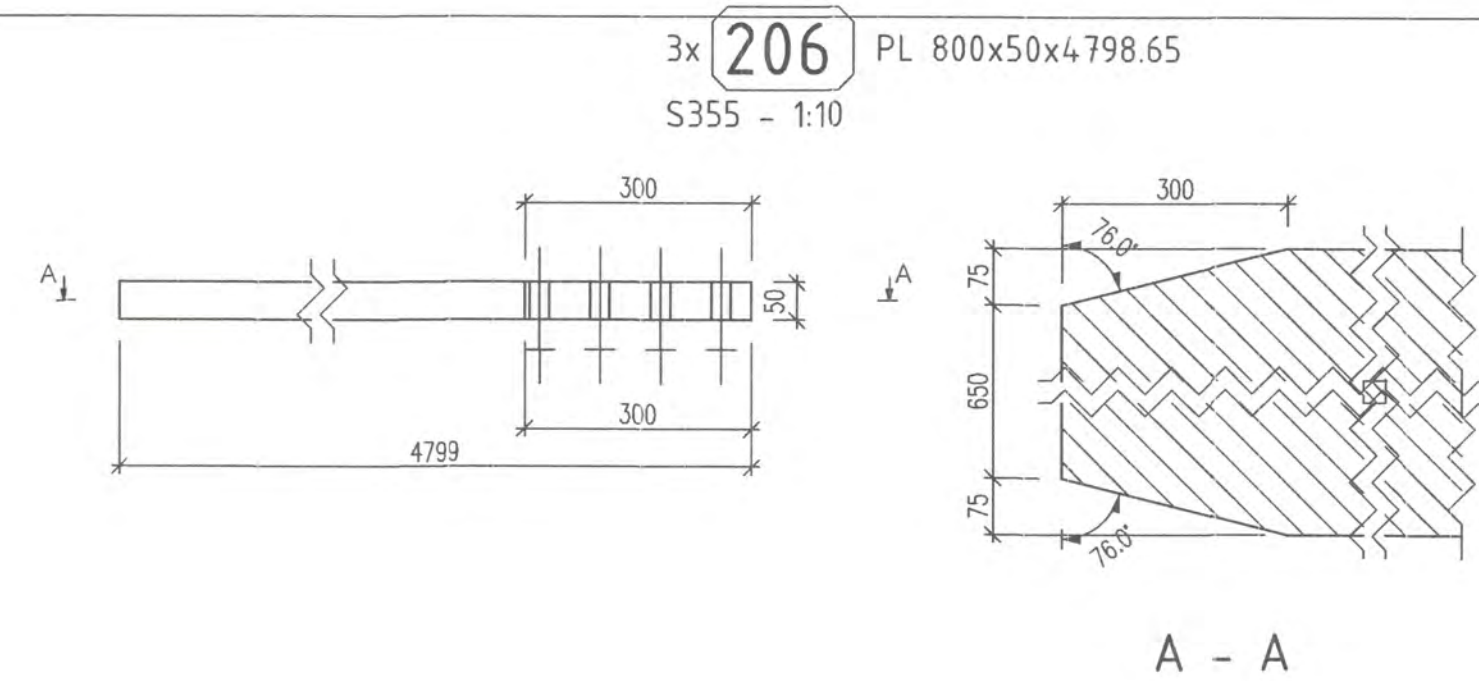
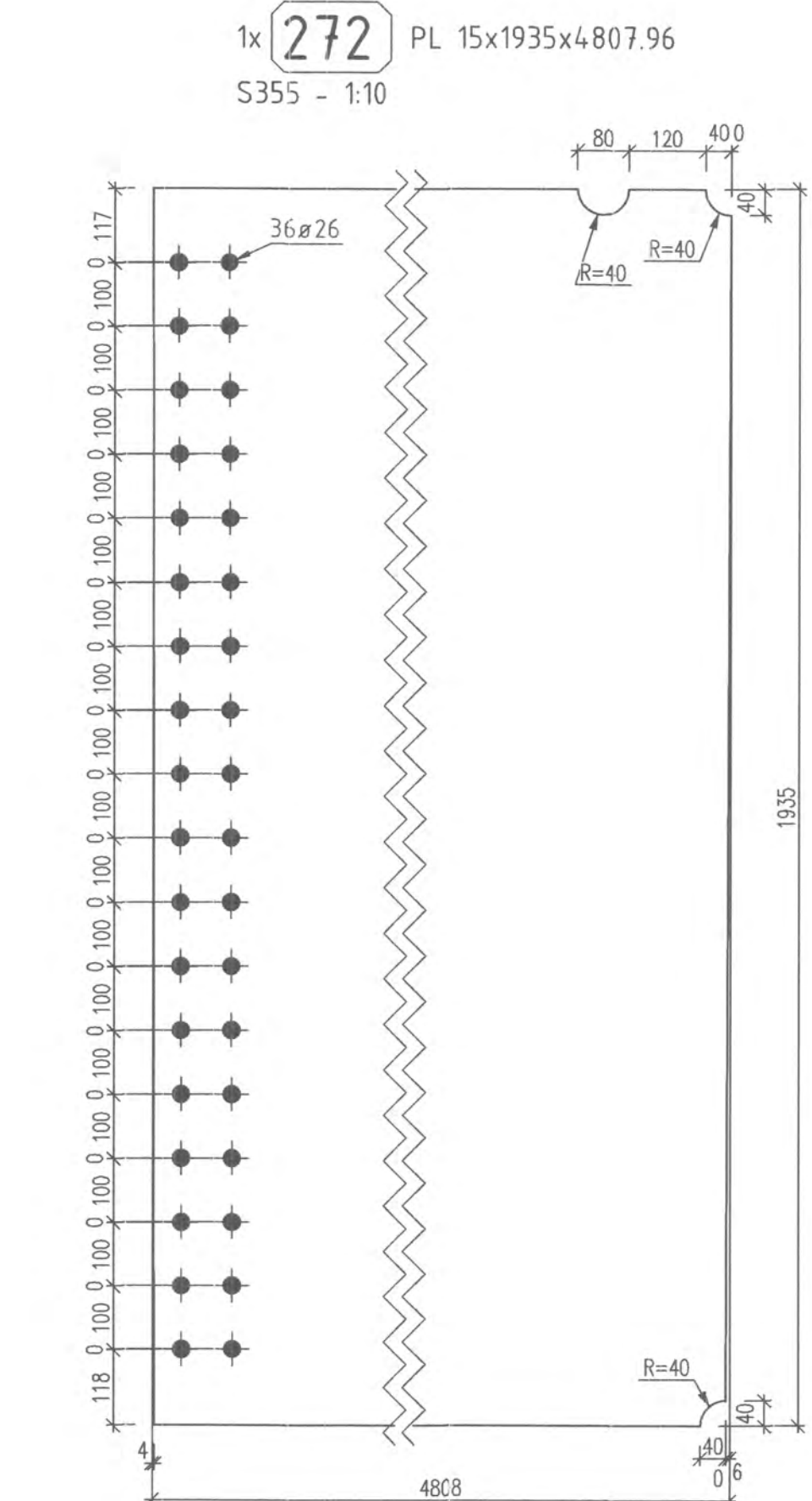
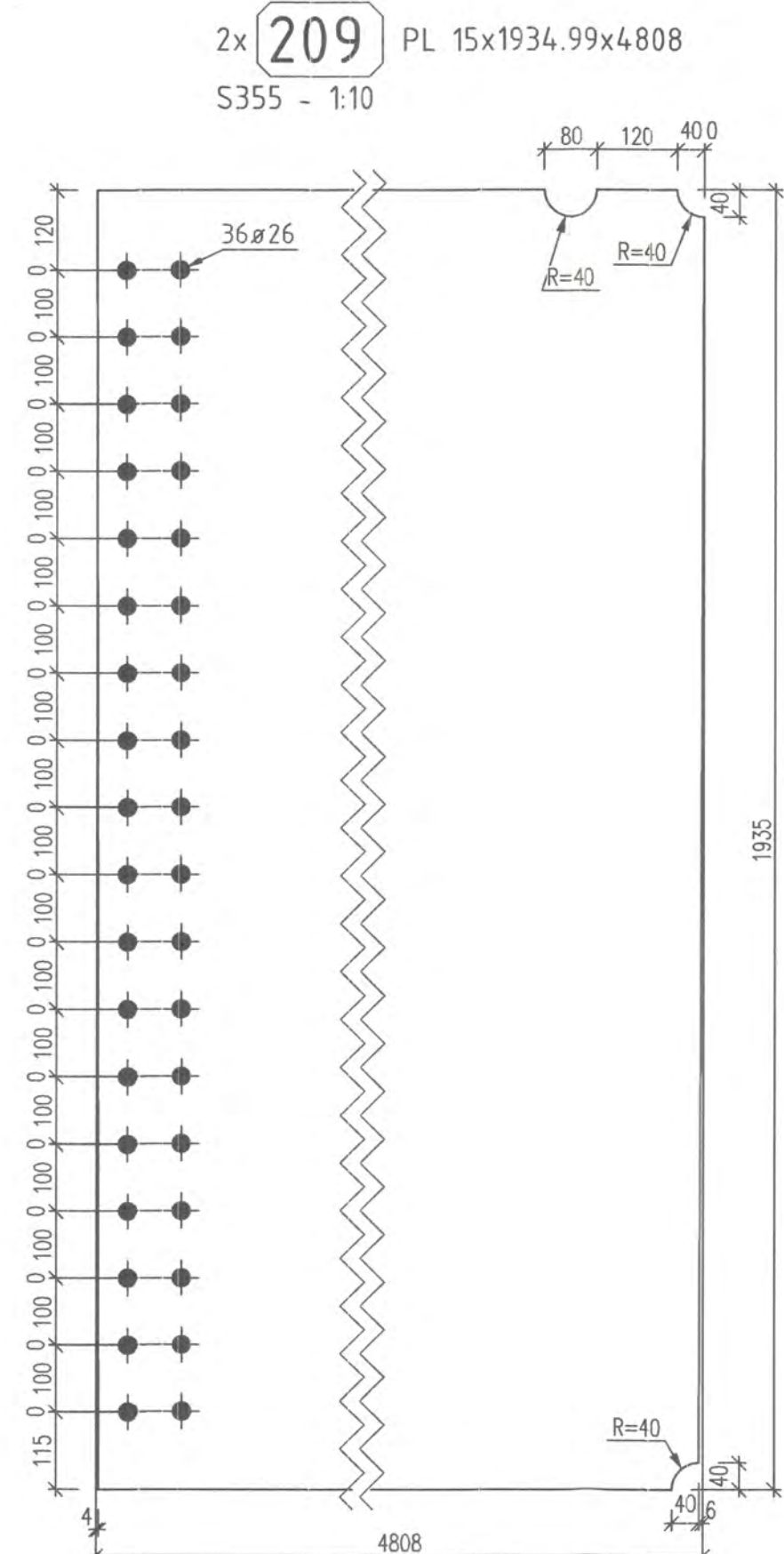
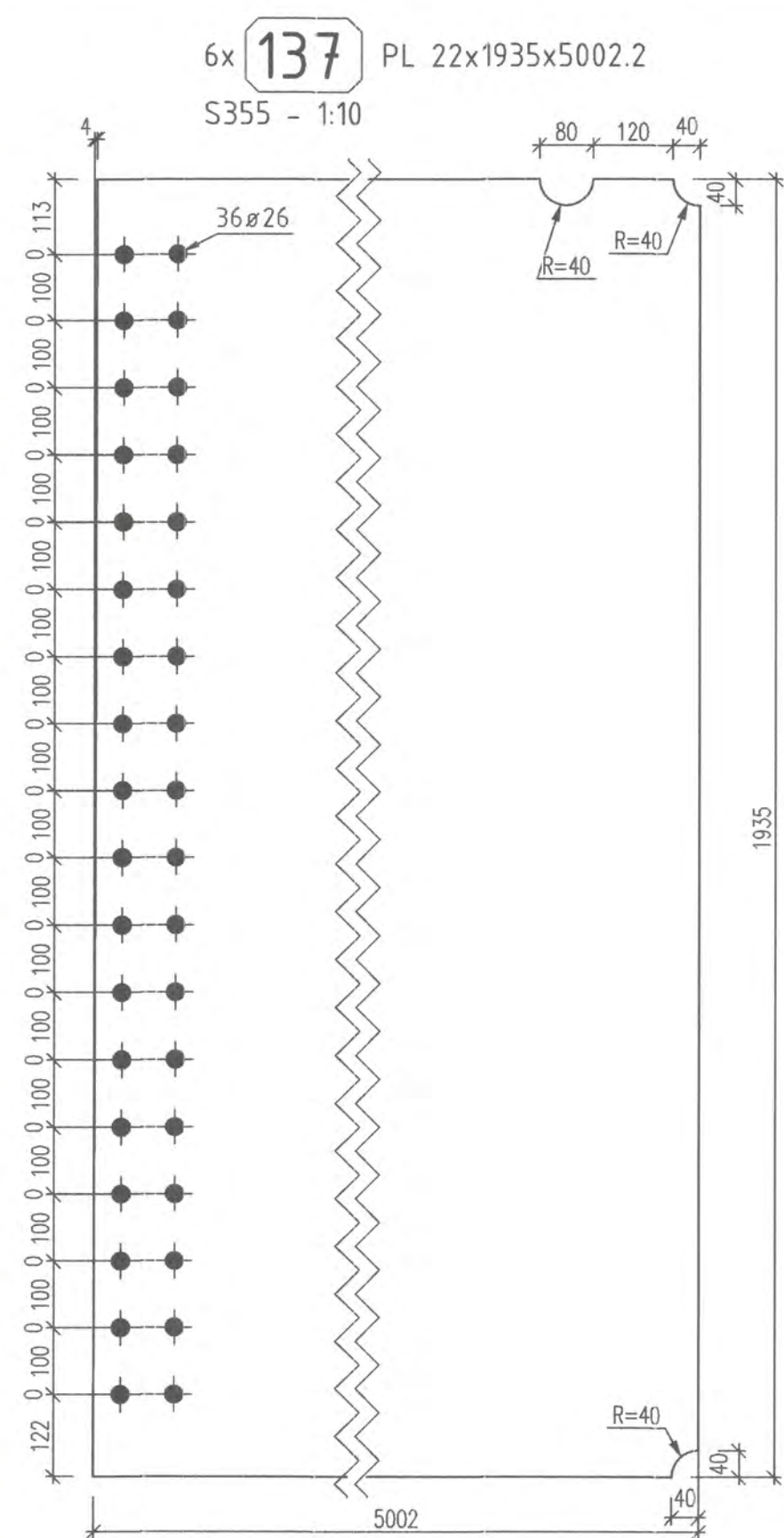






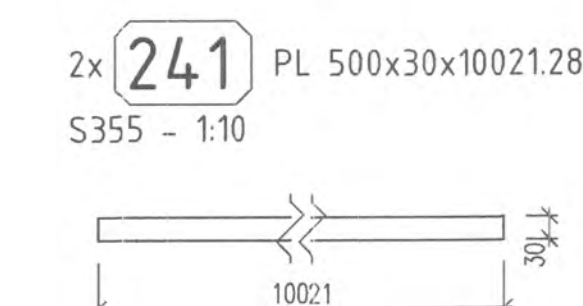
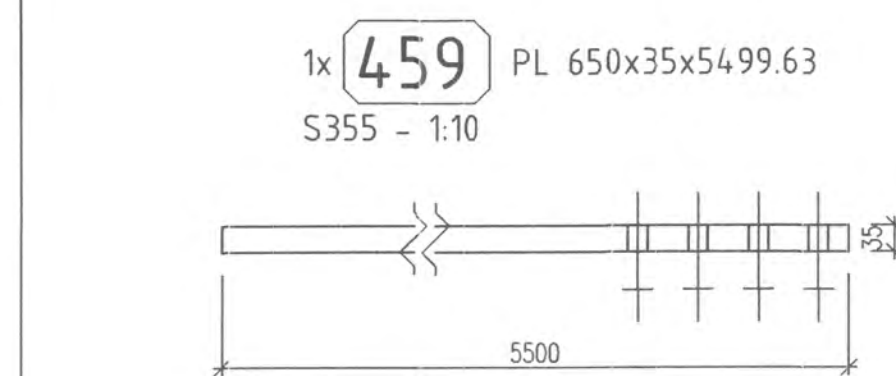
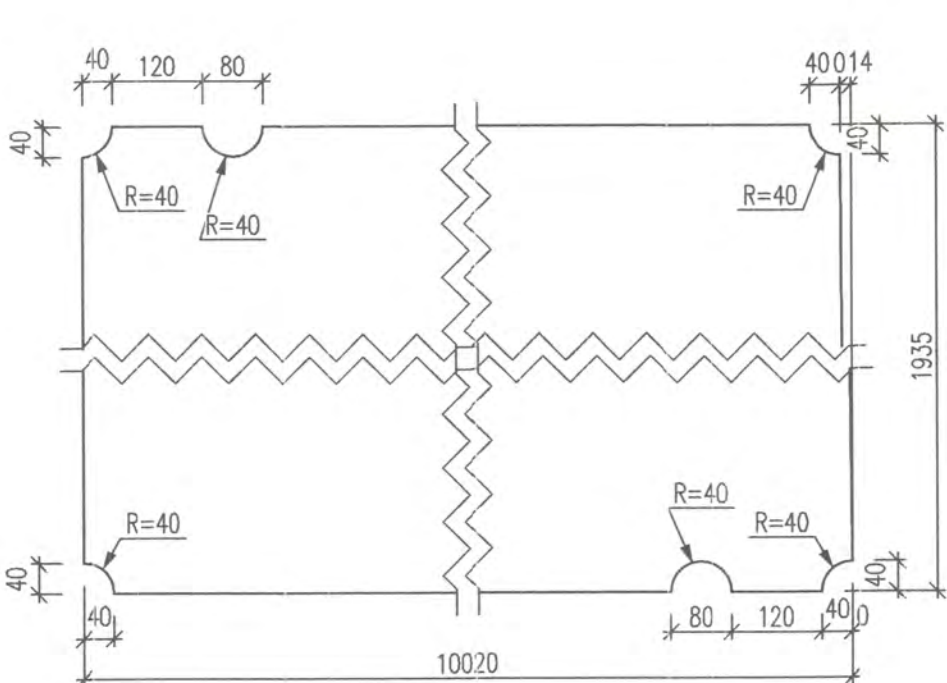
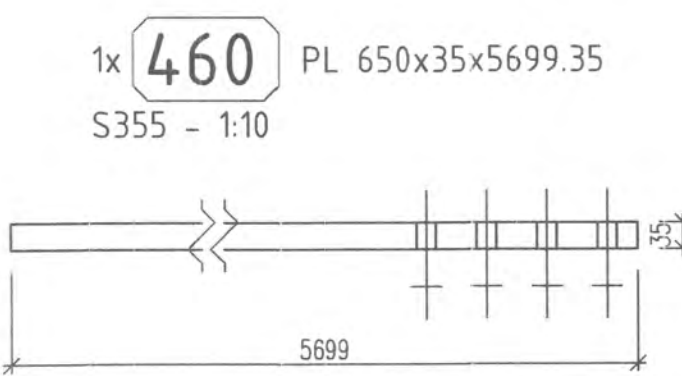
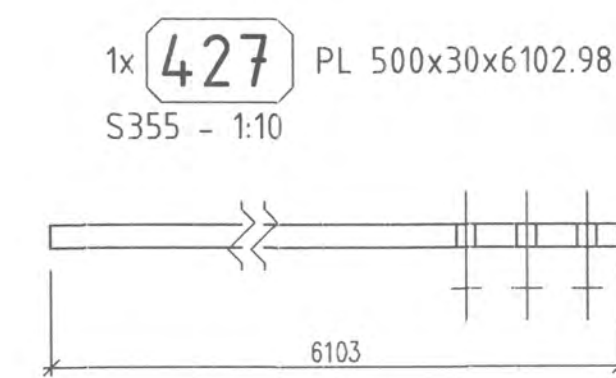
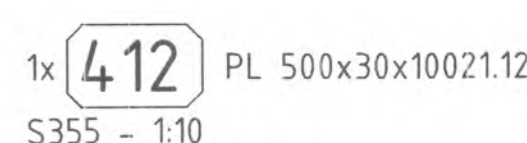
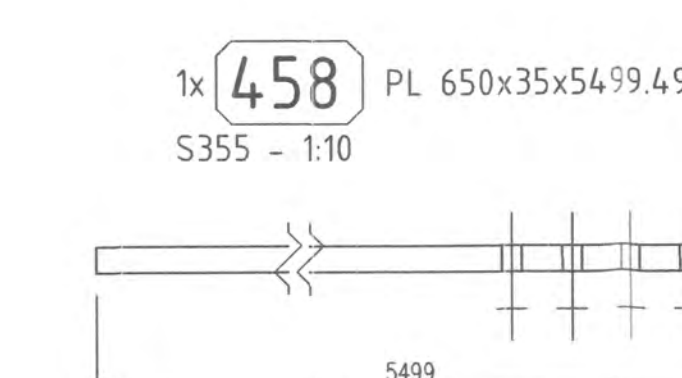
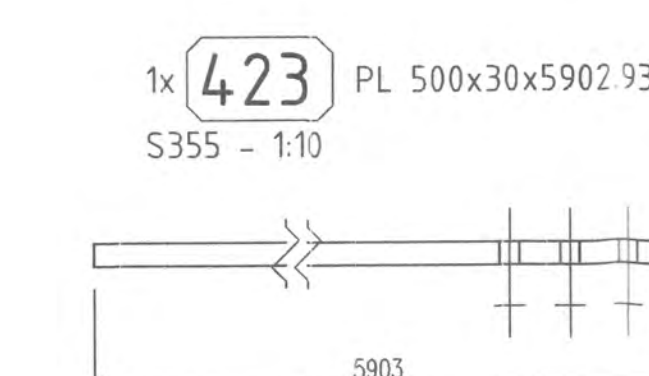
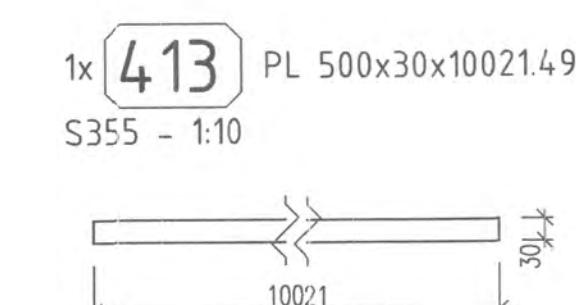
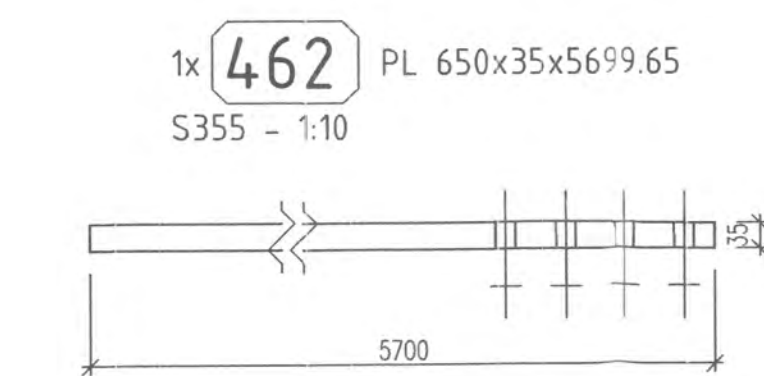
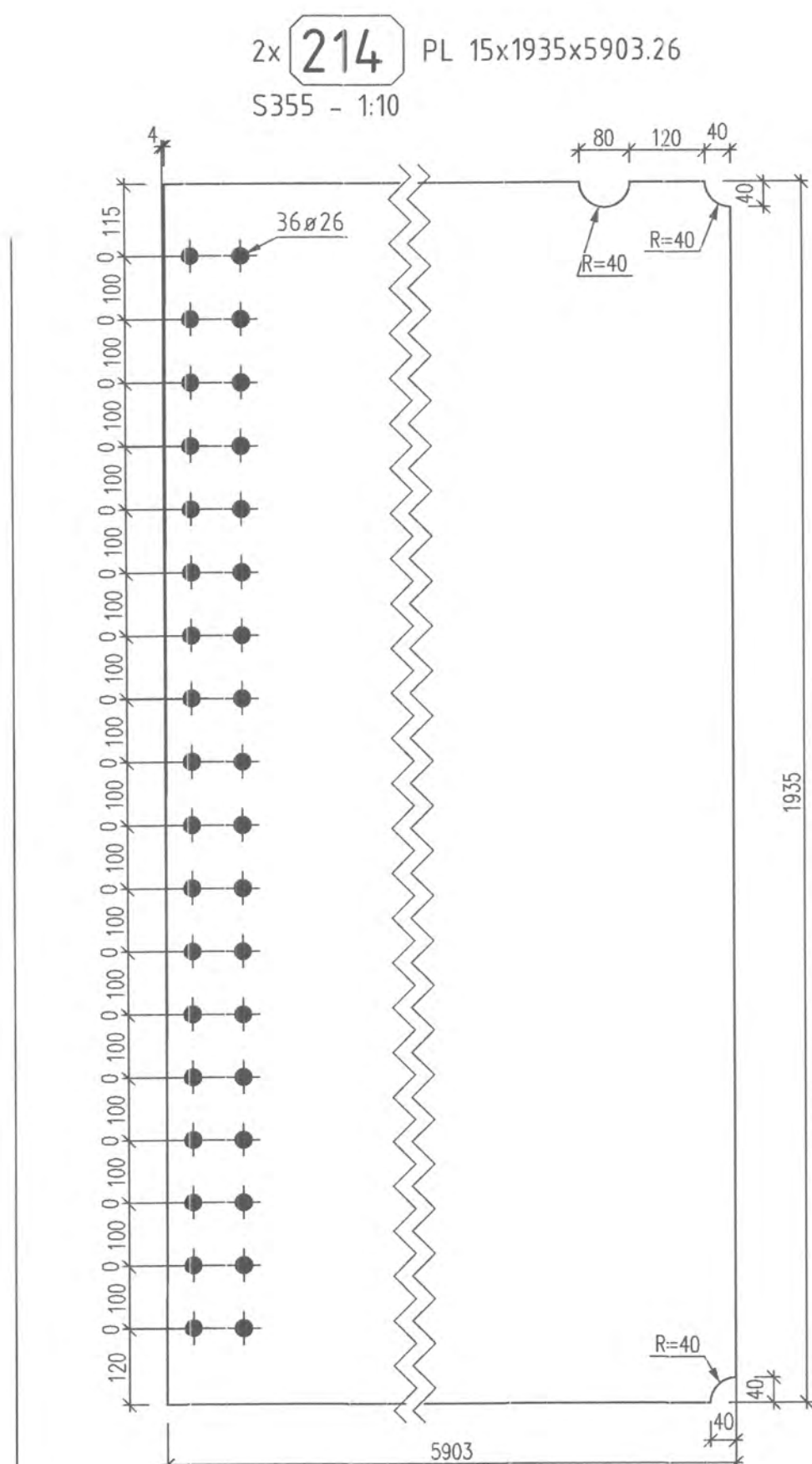
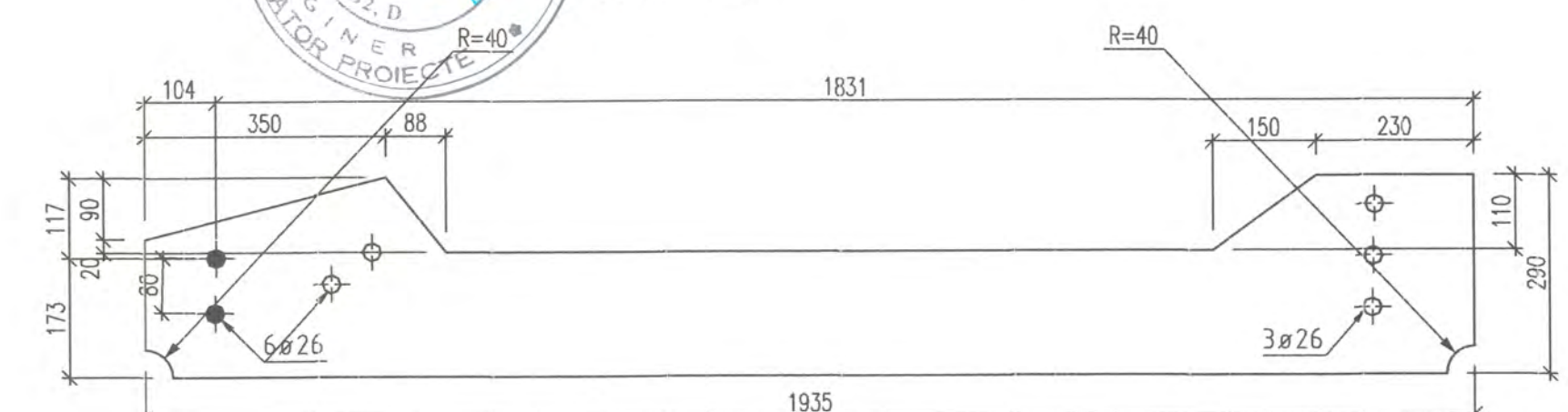
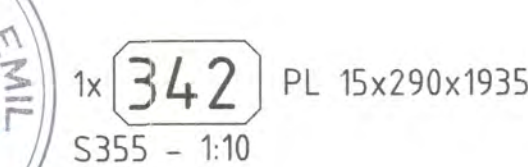
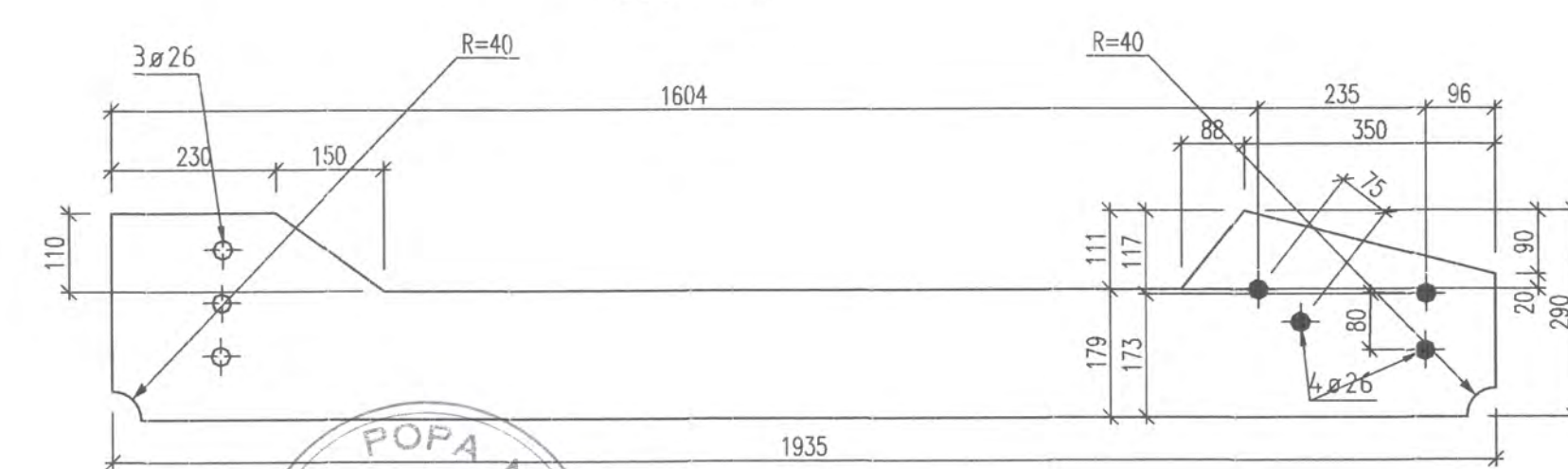
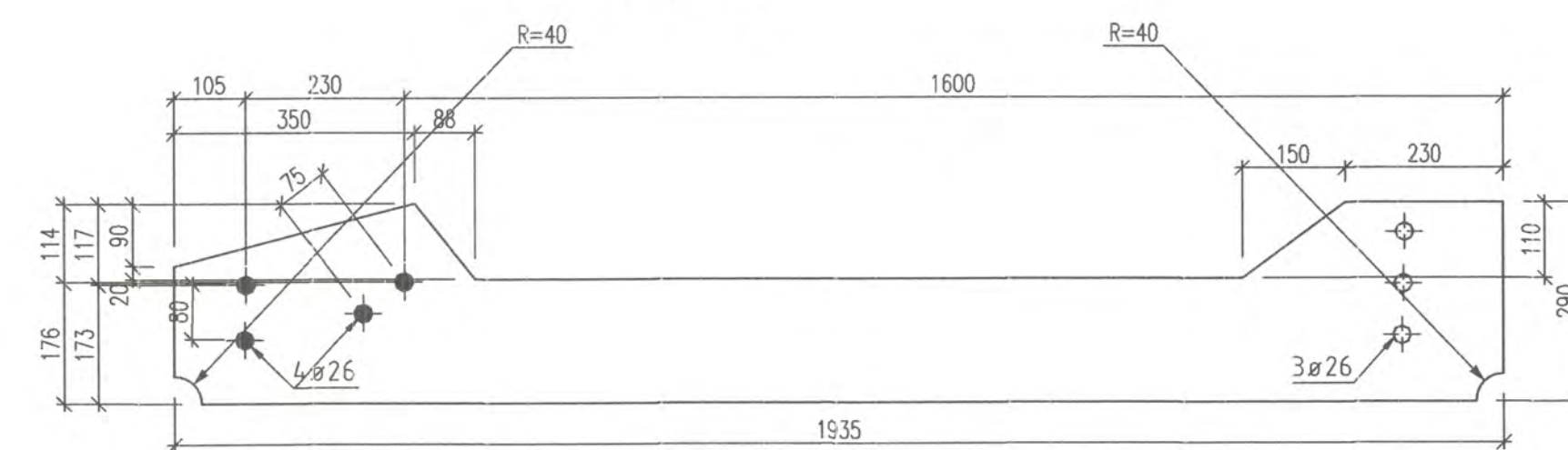
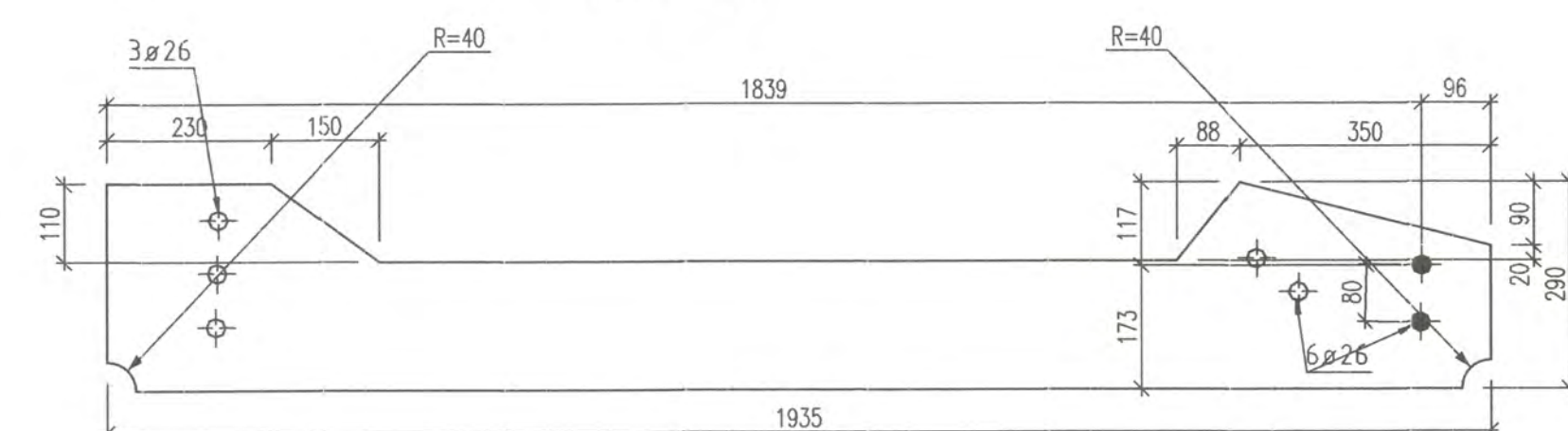
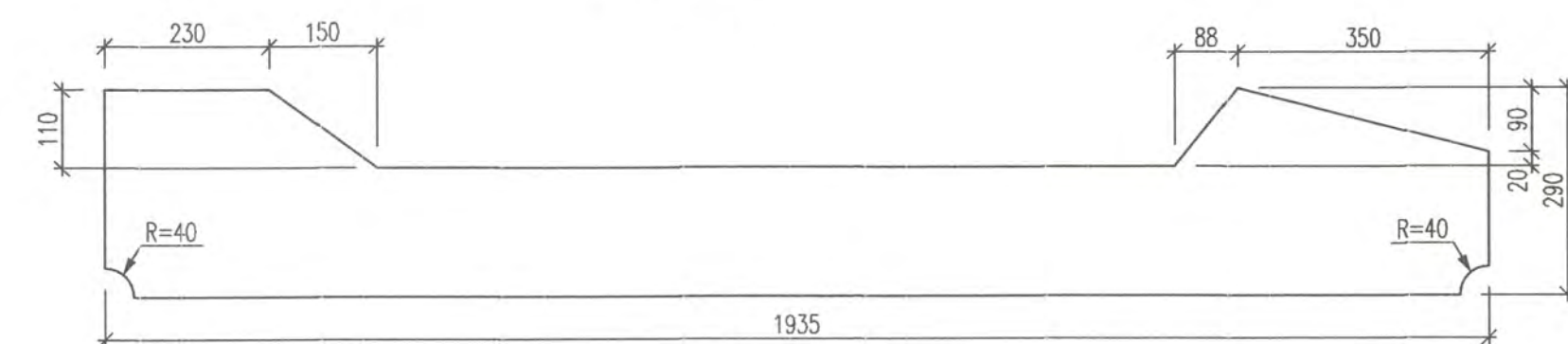
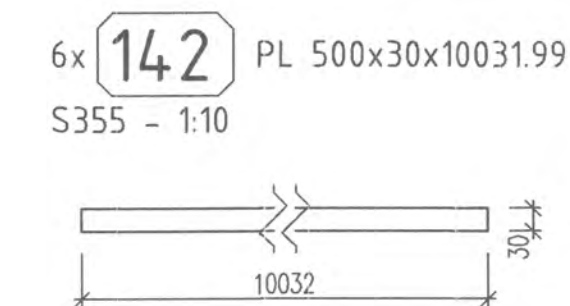
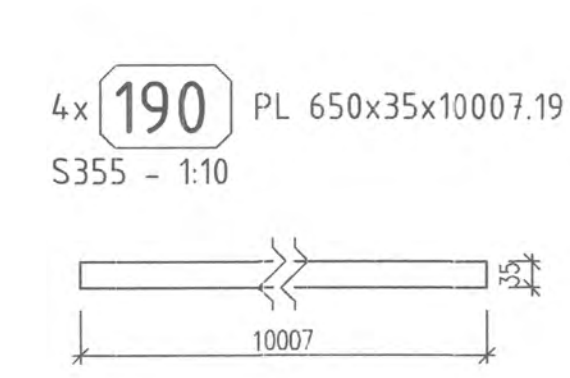
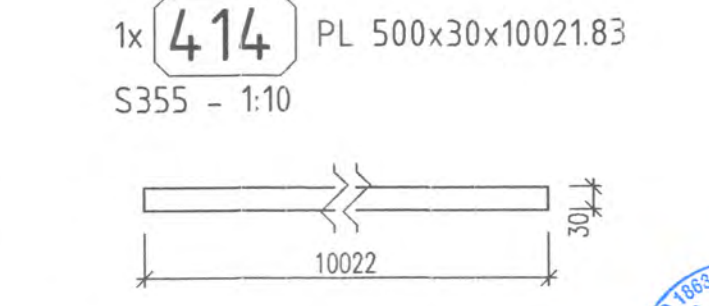
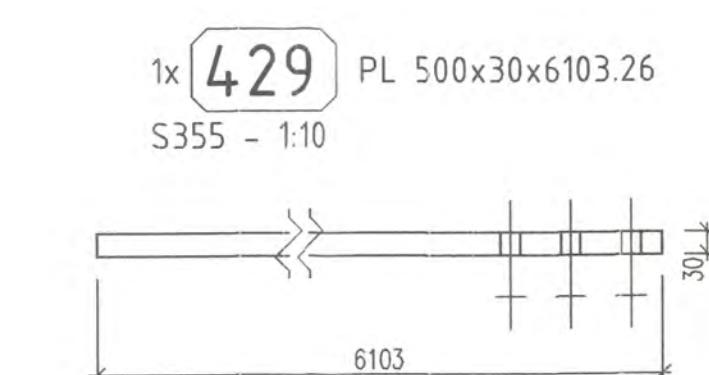
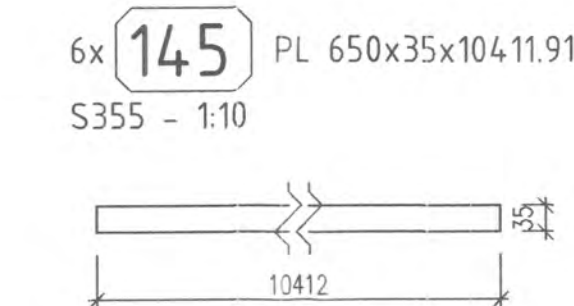
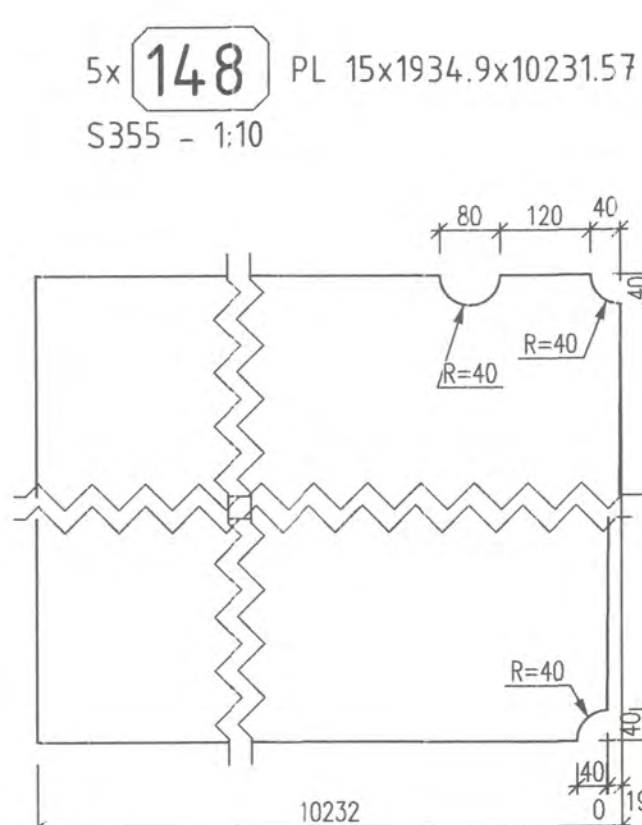
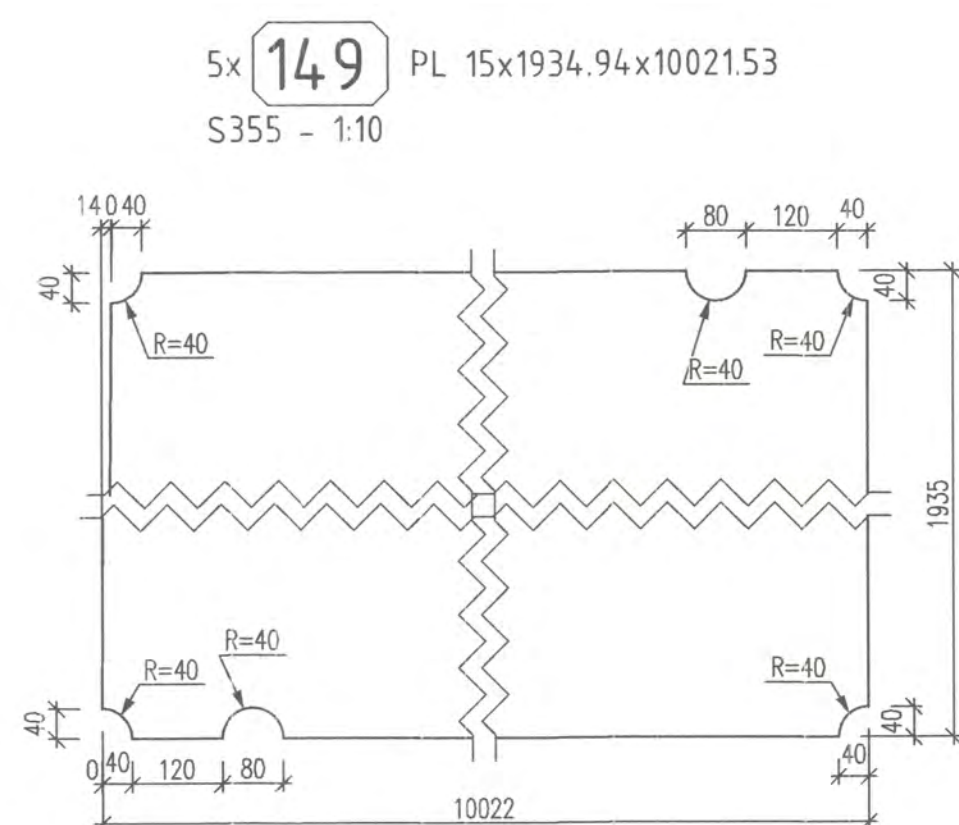
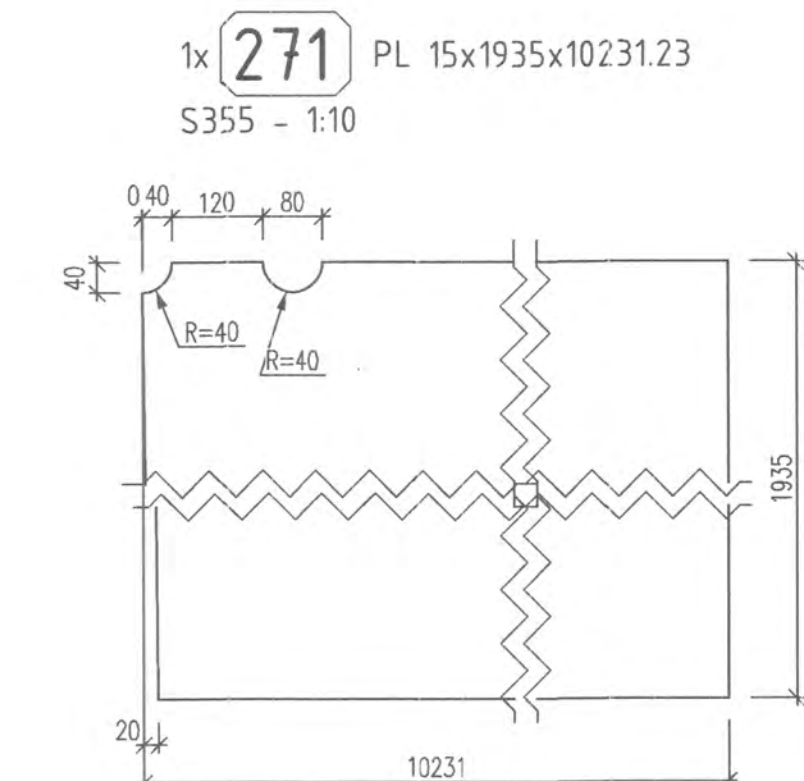
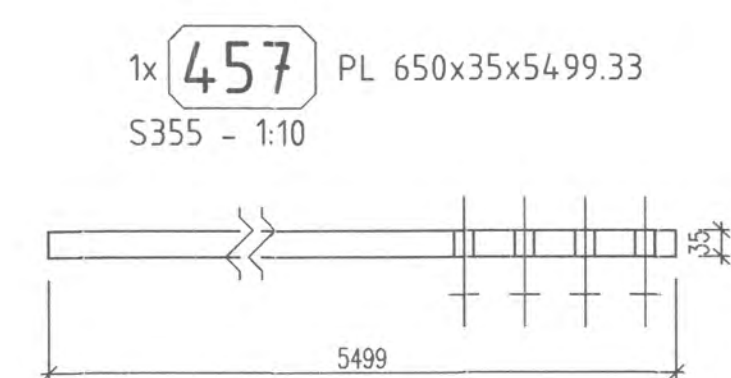
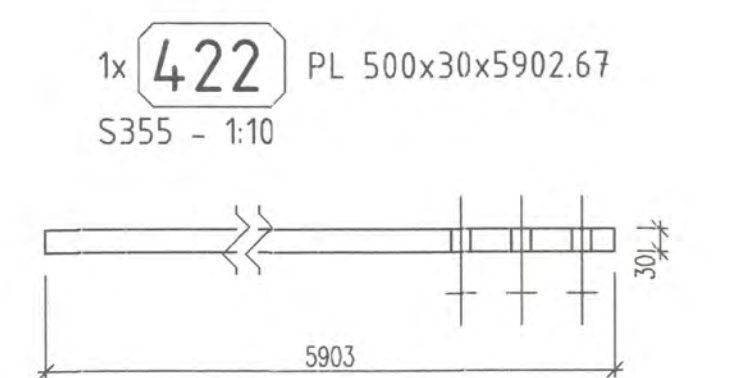
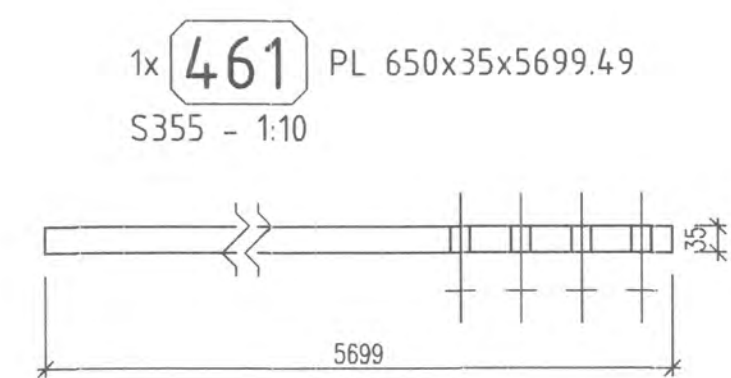
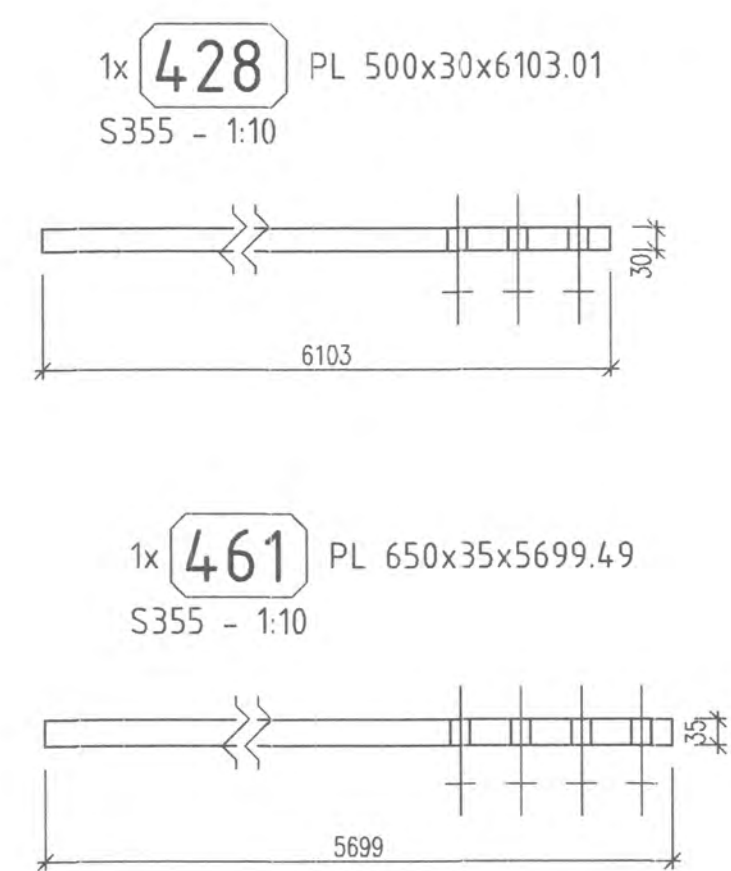
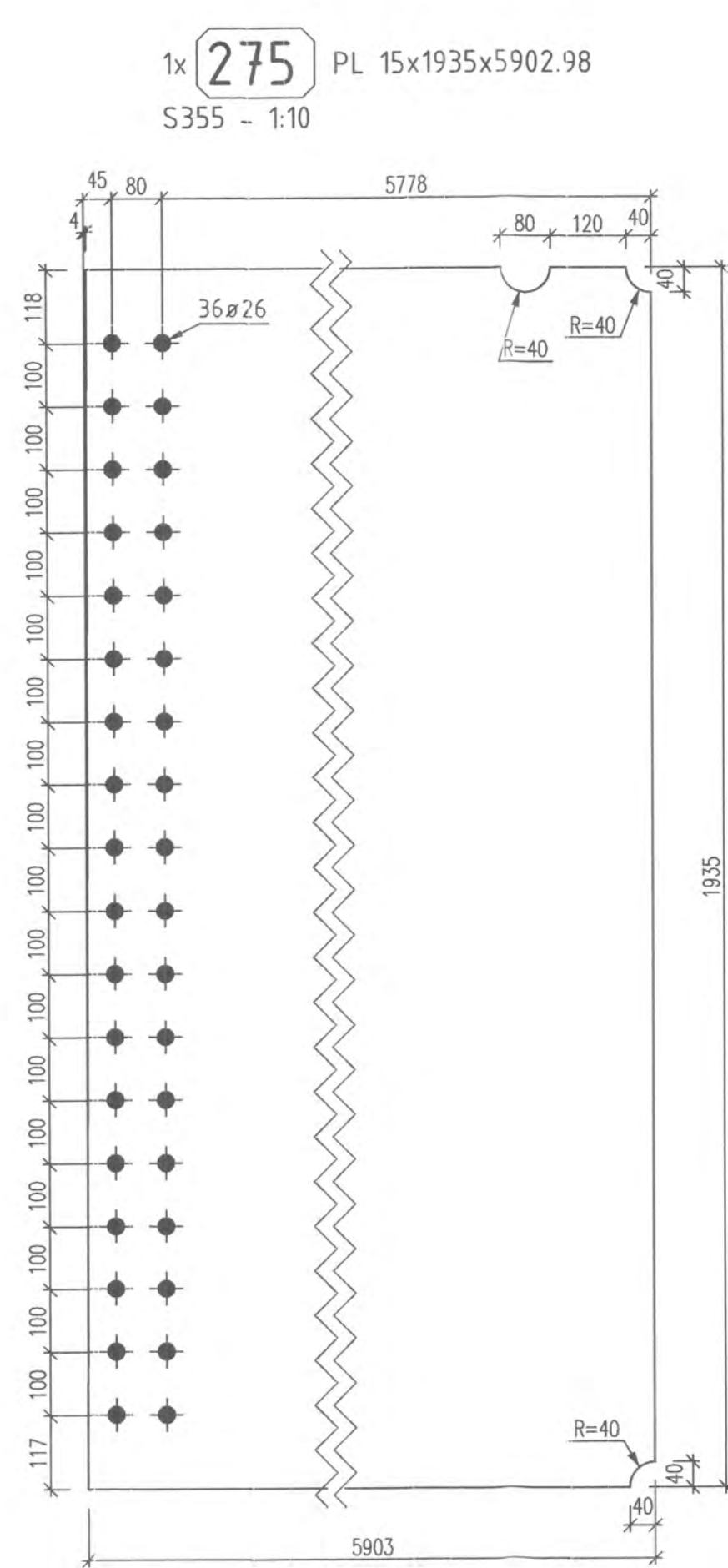
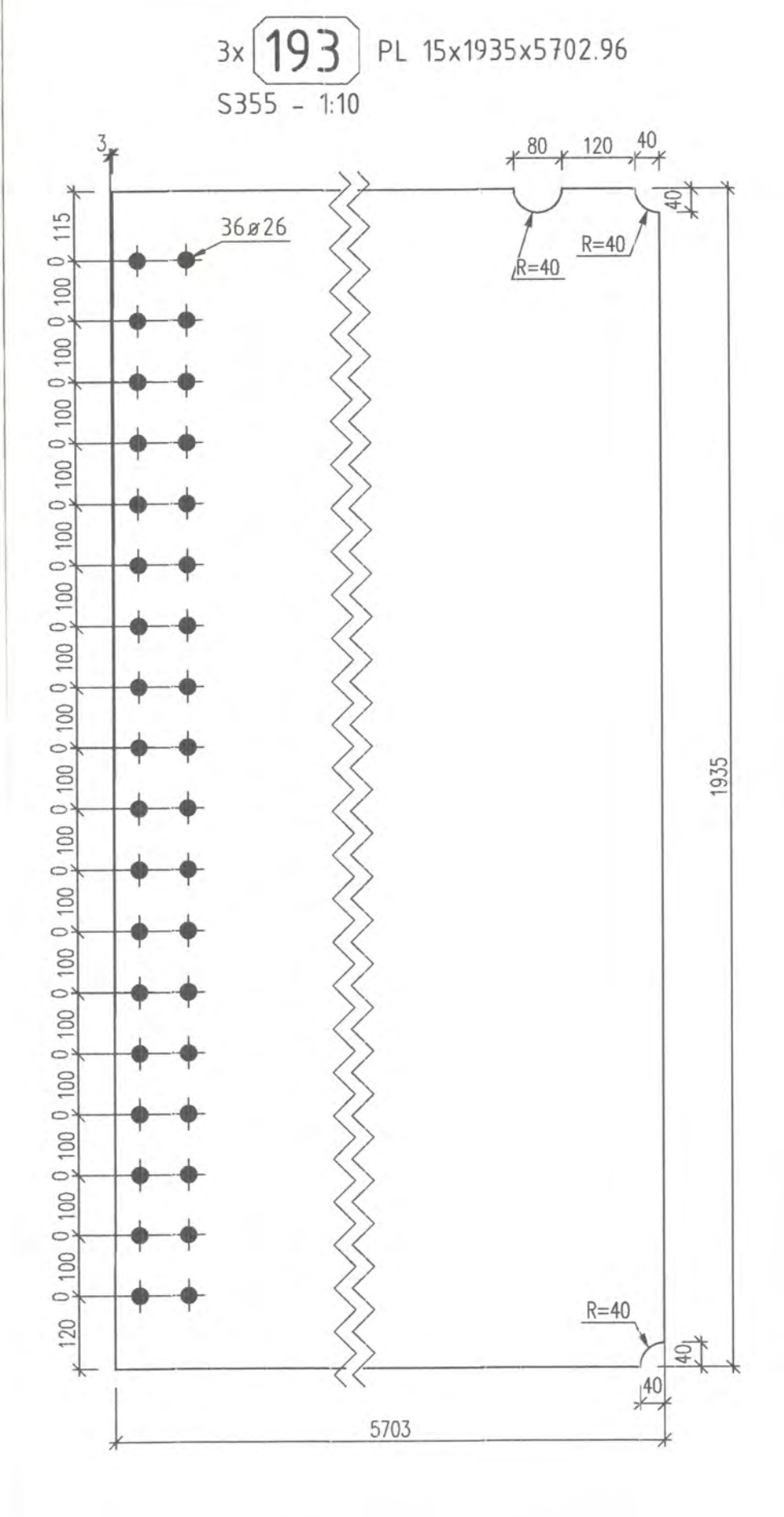






BENEFICIAR:		COMPANIA NAȚIONALĂ DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A.		PROIECTAT:		S.C. NV CONSTRUCT S.R.L. Cluj-Napoca, Str. Arges, nr.26, ap.8 C.U.I.: FO18639415 Nr.Reg. Com./J21/520/2006				TITLU PROIECT:		Coord. proiect:		ing. Dan SIMA		Numar Proiect:		590/2021		TITLU PLANSA:		Confecție metalica Plan debitate			
Adresa B&A Dincu, Calea 3B, sector 1, Bucuresti, Romania, 010873 Tel: 021.264.32.60 / Fax: 021.312.26.84 E-mail: cna@cna.ro										"Pasaj superior pe DN2, peste CF la Roman, Km 332+961"		Coord. ad. proiect:		ing. Mircea BOBAR		Scara:		1:10		PROIECT		FILTRUL		P.T.E.	
												Proiectat:		ing. Dan TOMAGA		Data:		ian. 2024							
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A diagram of a rectangular plot. The horizontal dimension is labeled 1067 and the vertical dimension is labeled 401. The plot is outlined with a double line.

Technical drawing of a rectangular plate. The overall width is 2002 and the overall height is 1305. A central slot is cut out, with a width of 67 and a height of 125. The slot is positioned such that the remaining material on the left and right sides is 67 units wide. The top and bottom edges of the plate are slightly irregular, suggesting a cast or machined part.

Technical drawing of a rectangular plate. The overall width is 1999 and the overall height is 1305. A central slot is cut out, with a width of 64 and a height of 1305. The slot is defined by two vertical zigzag lines. The distance from the left edge to the start of the slot is 64, and the distance from the end of the slot to the right edge is 64.

Technical drawing of a rectangular plate. The overall width is 1997 and the overall height is 1887. There is a central slot with a width of 64. The distance from the left edge to the start of the slot is 64, and the distance from the end of the slot to the right edge is 64. The slot has a jagged, sawtooth-like profile.

A diagram of a rectangle with a horizontal length of 1397 and a vertical width of 400. The dimensions are indicated by arrows and labels below and to the right of the rectangle.

A technical drawing of a rectangle. The horizontal dimension is labeled 1360 and the vertical dimension is labeled 400. The drawing is a simple black outline on a white background.

Technical drawing of a rectangular plate. The overall width is 2004 and the overall height is 1305. A central slot is cut out, with a width of 69 and a height of 124. The slot is positioned such that the remaining material on the left and right sides is 69 units wide. The top and bottom edges of the plate are slightly irregular, suggesting a cast or machined part.

1x **386** PL 25x1088.85x1997.92  
S355 - 1:11934

1089

11934

Technical drawing of a rectangular plate. The overall width is 1999 and the overall height is 1087. There is a central rectangular hole with a width of 66 and a height of 66. The drawing includes dimension lines and arrows indicating the measurements.

Technical drawing of a rectangular plate. The dimensions are: length 1360, width 400, and a small offset of 31 on the left side.

Technical drawing of a rectangular frame with a diamond mesh pattern. The drawing shows a rectangle with a diamond mesh pattern inside. Dimensions are given: width 1088.87, height 2000.07, and a small offset of 65. The drawing is labeled "S355 - 1:10" and "1x 387 F199825x1088.87x2000.07".

Technical drawing of a rectangular plate. The overall width is 2000 and the overall height is 1087. A central vertical crack is shown with a zigzag line. The crack is 67 wide at the top and bottom edges. The distance from the left edge to the crack is 67, and the distance from the crack to the right edge is 67. The distance from the top edge to the crack is 67, and the distance from the crack to the bottom edge is 67. The crack is 67 wide at the top and bottom edges.

A technical drawing of a rectangle. The horizontal dimension is labeled 1361 and the vertical dimension is labeled 400. The drawing includes dimension lines with arrows and tick marks at the corners.

1x **363** PL 20x1358,65x1998,58  
S355 - 1:10

64 1999 1359



VERKEER PROJECTE

Technical drawing of a rectangular plate. The overall width is 1363, with 1-unit margins on both sides. The overall height is 400, with a 14-unit margin at the top. A central slot is shown with a zigzag line indicating a break. The slot is 1363 wide and 400 high.

Technical drawing of a rectangular plate. The overall width is 1999 and the overall height is 1359. A horizontal zigzag line is drawn across the plate, with a small square symbol indicating a 90-degree angle at its center. A vertical zigzag line is drawn on the right side of the plate. A circular stamp is located in the upper right corner, containing the text "CALCULATOR PROJECT" and "VER 2.0". A dimension of 67 is indicated for a small rectangular feature on the right side of the plate. A dimension of 64 is indicated for a small rectangular feature on the left side of the plate.

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Arges, nr.26, ap. 1  
C.U.I: RO18639415,  
Nr.Reg. Com.J12/1520/2006



Coord. proiect:	ing. Dan SIMA	
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Numar Proiect:	TITLU PLANSĂ:
550/2021	
Scara:	Confecție metalică
	Plan debitare

Notă: Această planșă este proprietate intelectuală a SC NV CONSTRUCT SRL. Reproducerea acestei planșe este interzisă fără acordul scris al SC NV CONSTRUCT SRL.

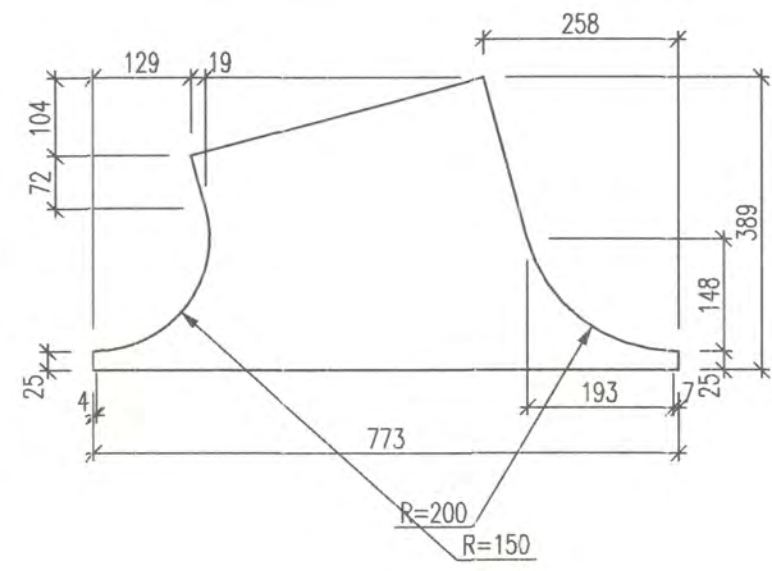
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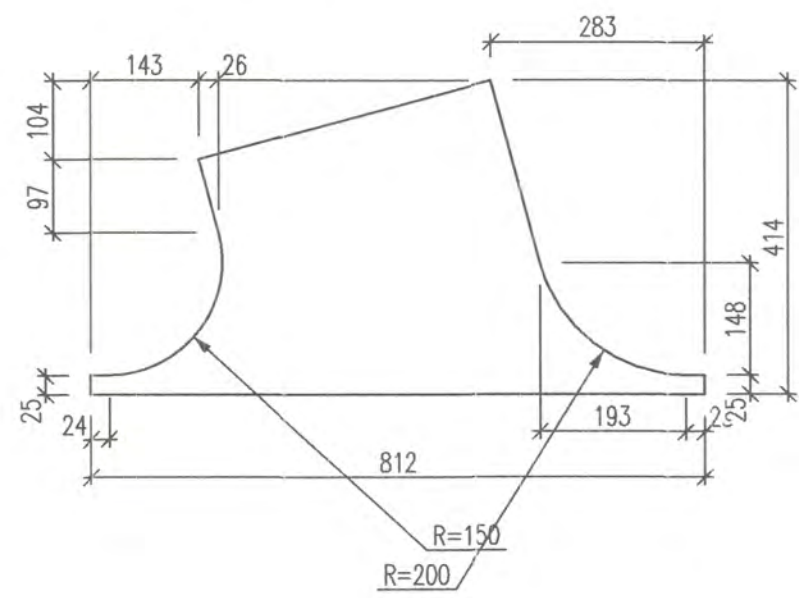




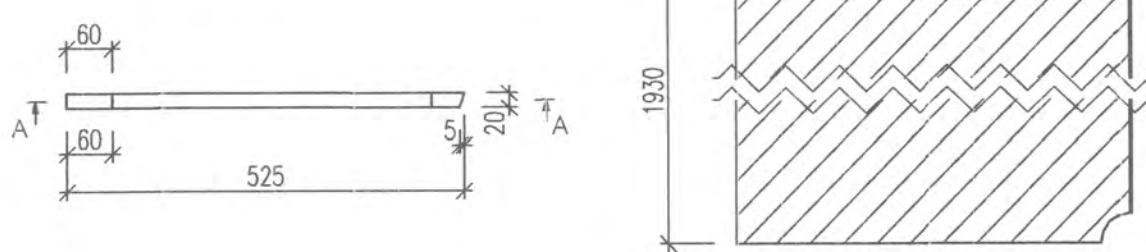
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S355 - 1:10



5x **169** PL 30x413.94x811.83  
S355 - 1:10

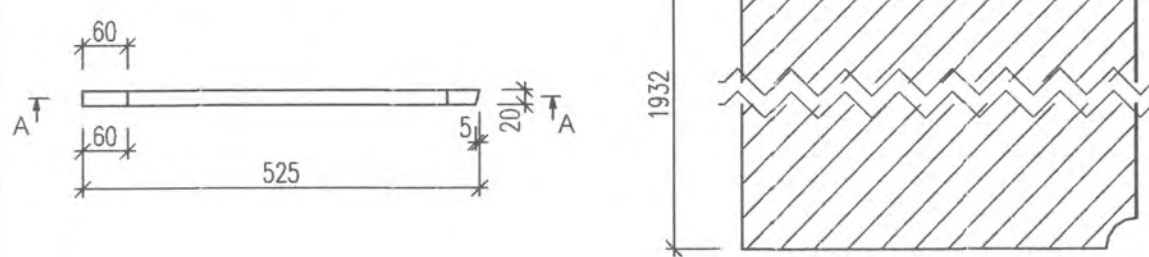


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S355 - 1:10



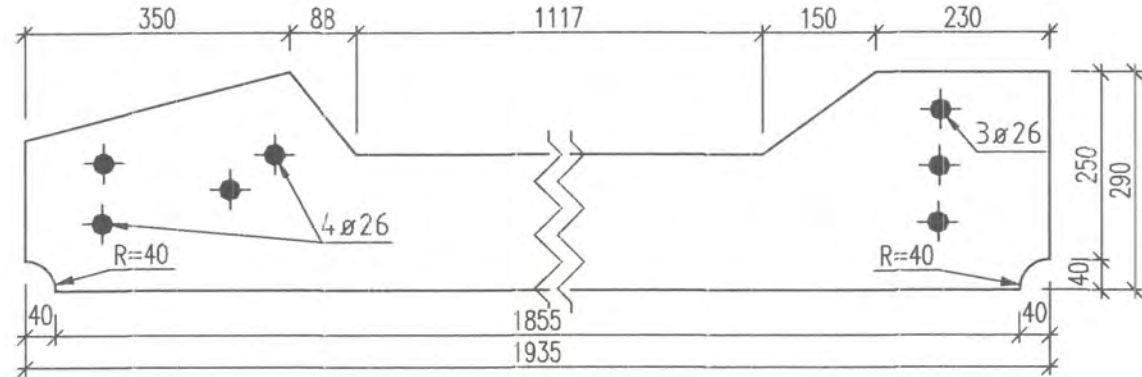
A - A

1x **357** PL 1935x20x525.17  
S355 - 1:10

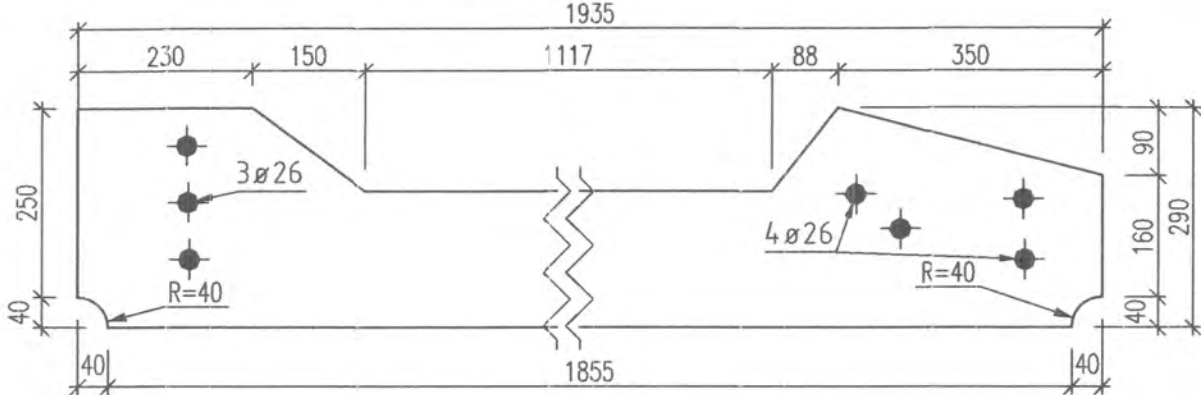


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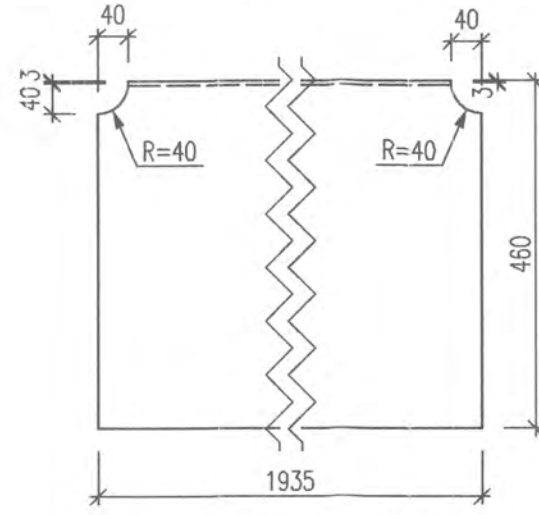
8x **130** PL 15x290x1935  
S355 - 1:10



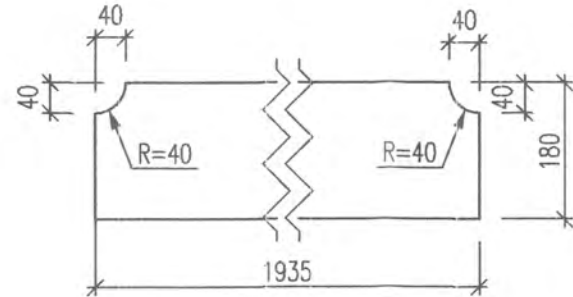
5x **152** PL 15x290x1935  
S355 - 1:10



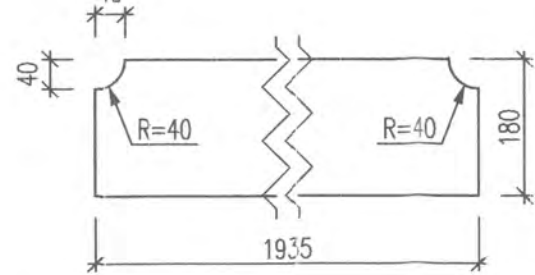
5x **157** PL 20x460.01x1935  
S355 - 1:10



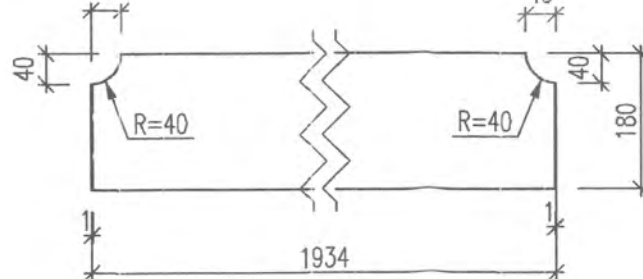
4x **184** PL 20x180x1935.04  
S355 - 1:10



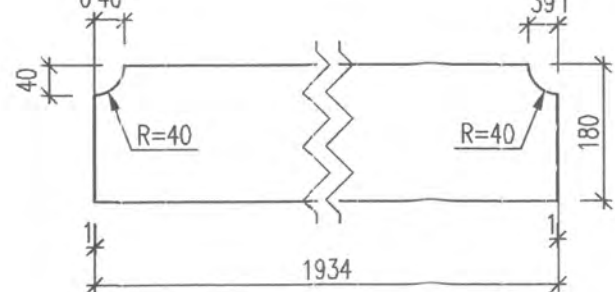
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S355 - 1:10



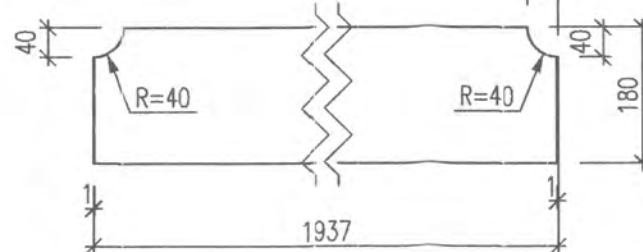
1x **369** PL 20x180x1934.48  
S355 - 1:10



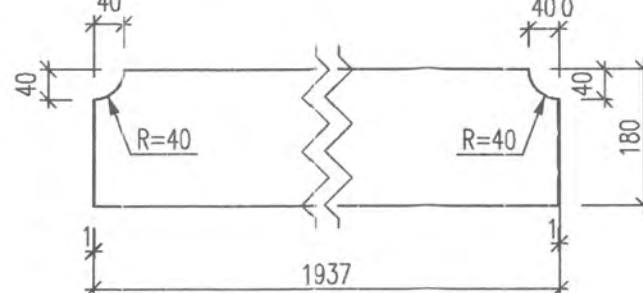
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S355 - 1:10



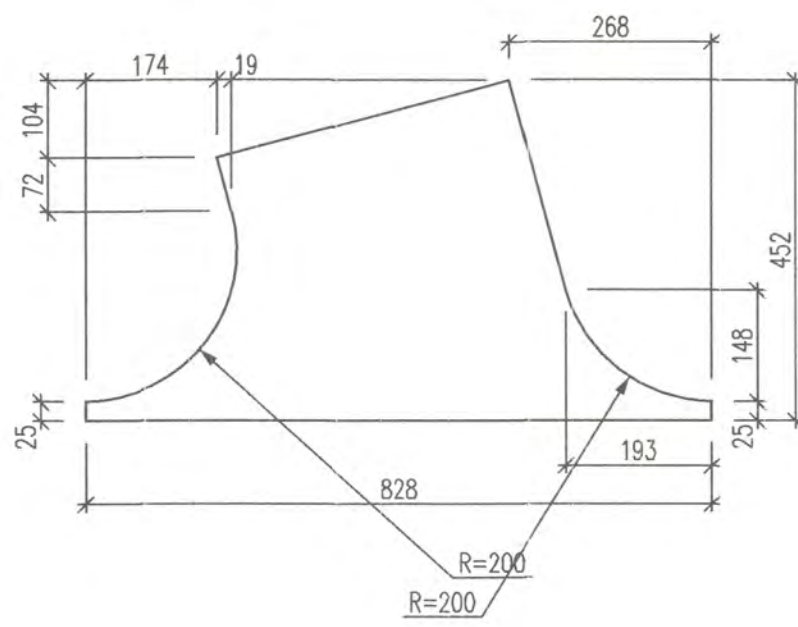
1x **371** PL 20x180x1937.11  
S355 - 1:10



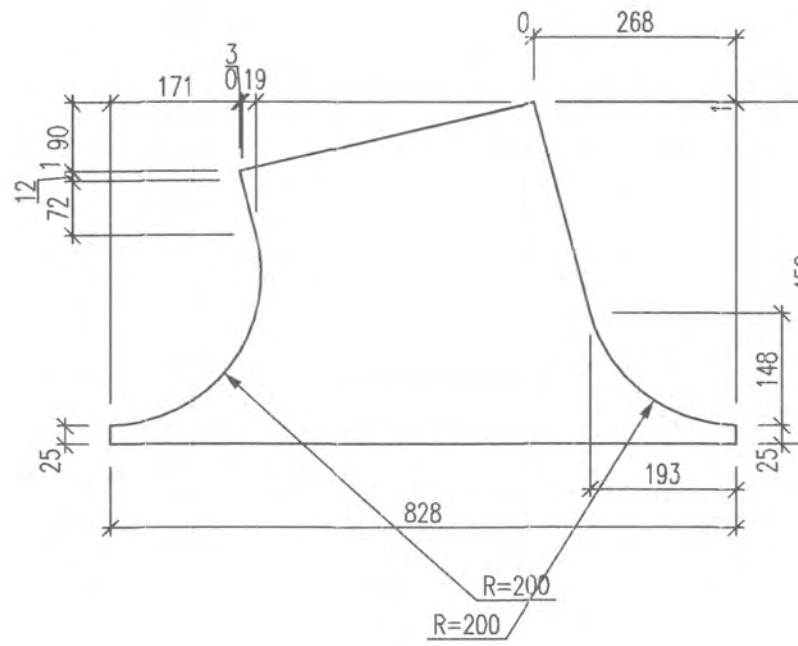
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S355 - 1:10



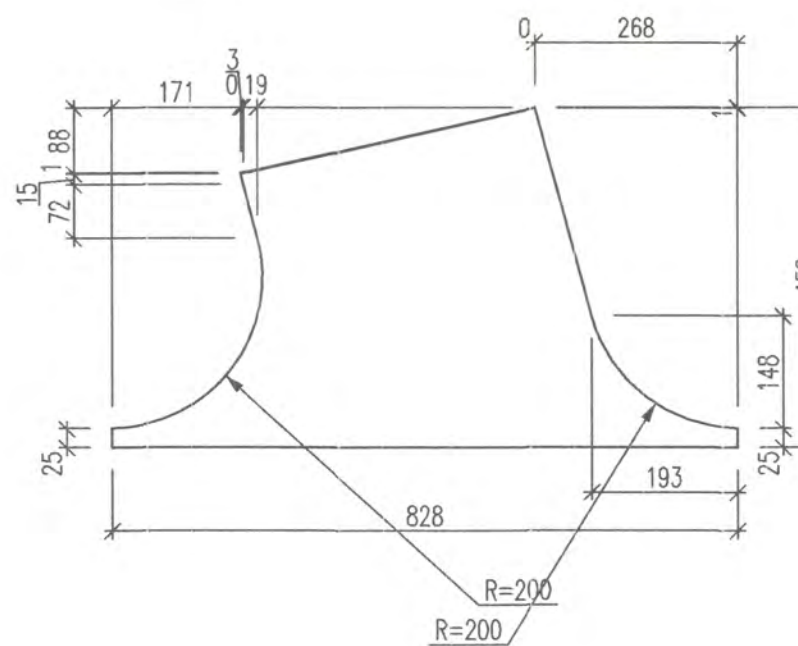
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S355 - 1:10



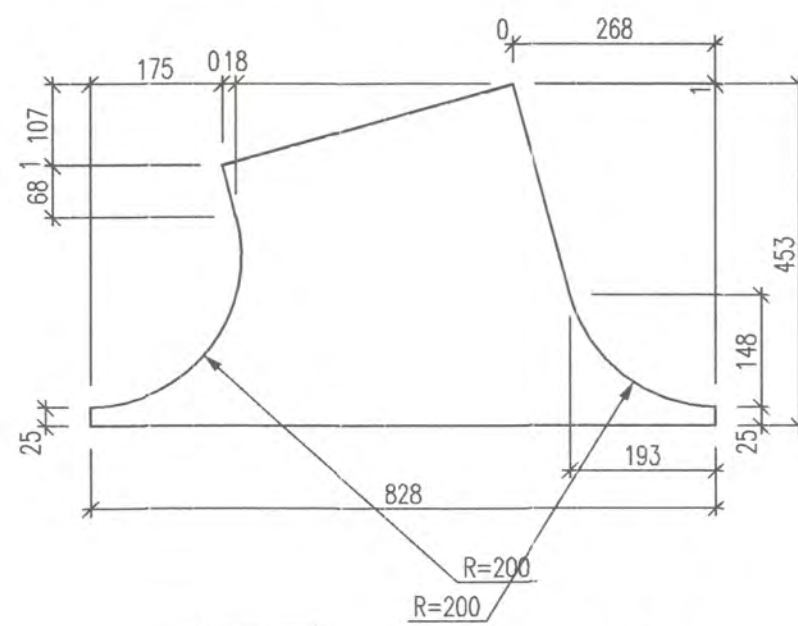
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S355 - 1:10



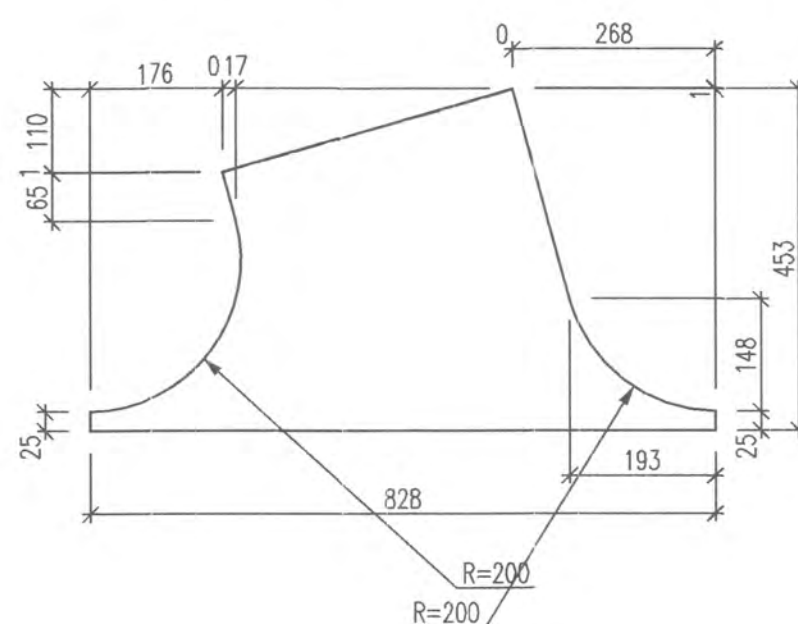
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S355 - 1:10



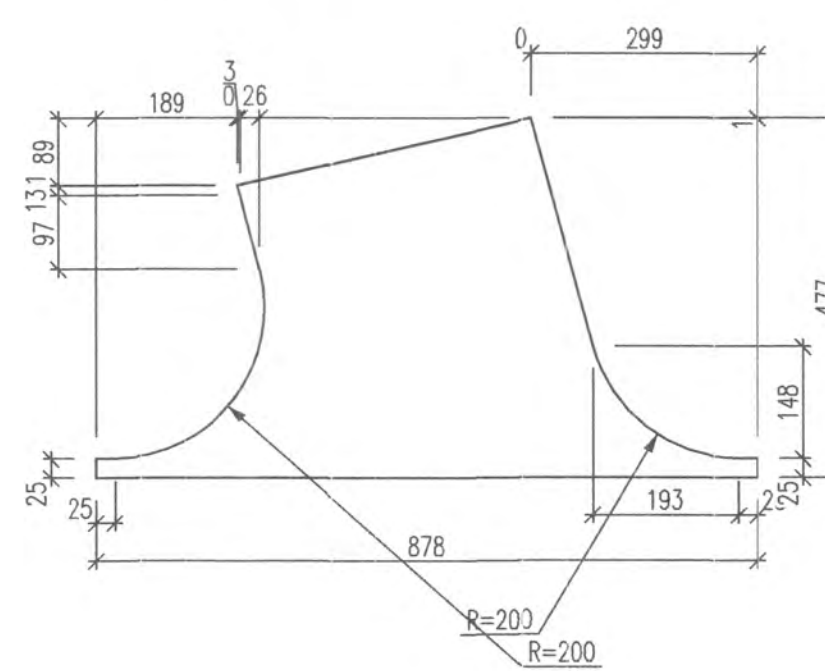
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S355 - 1:10



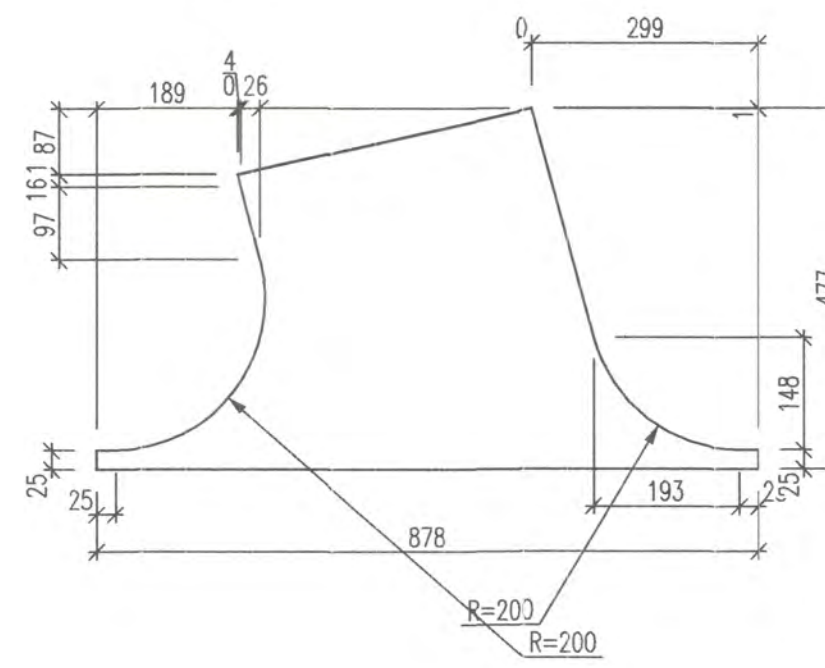
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S355 - 1:10



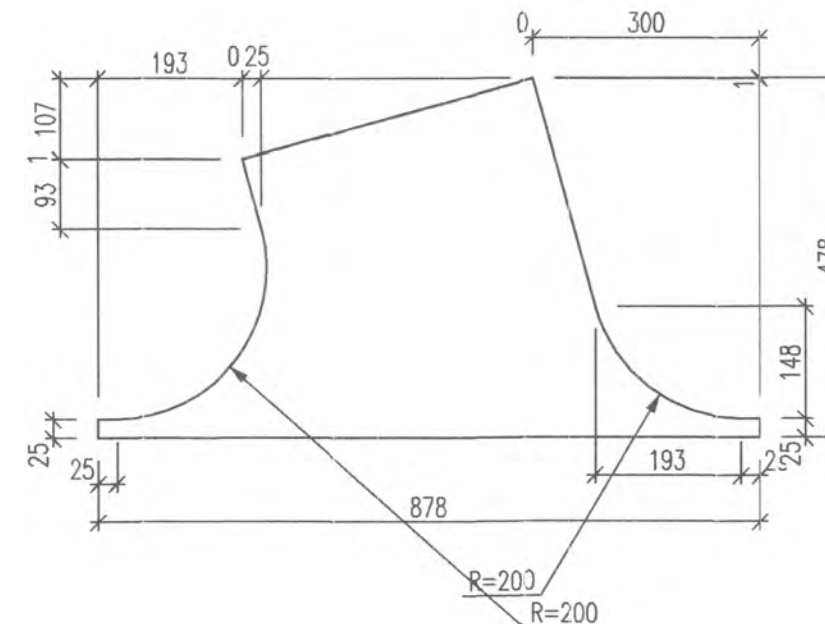
1x **406** PL 30x476.83x878.22  
S355 - 1:10



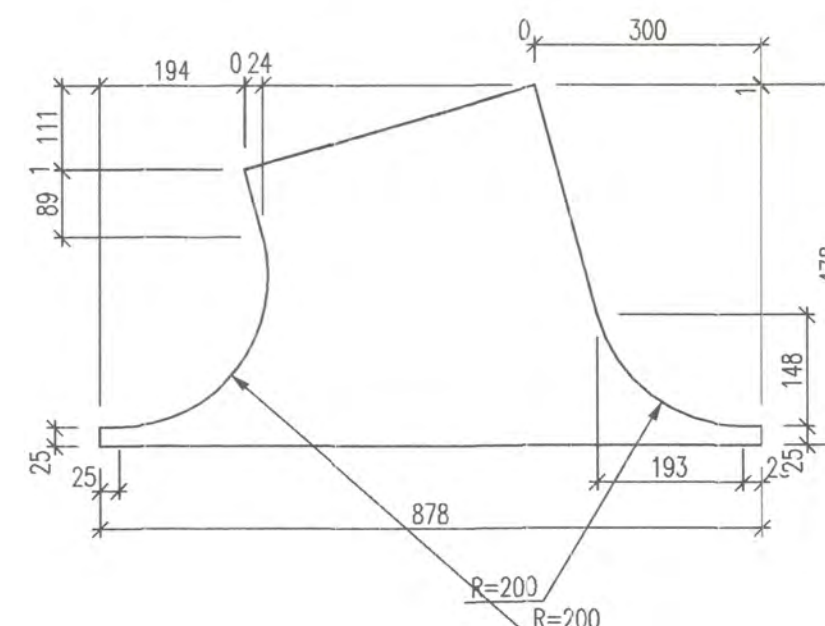
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S355 - 1:10



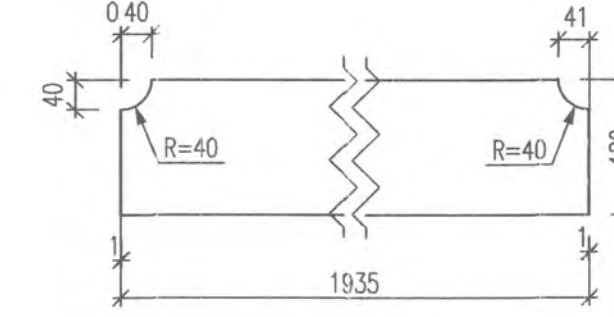
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S355 - 1:10



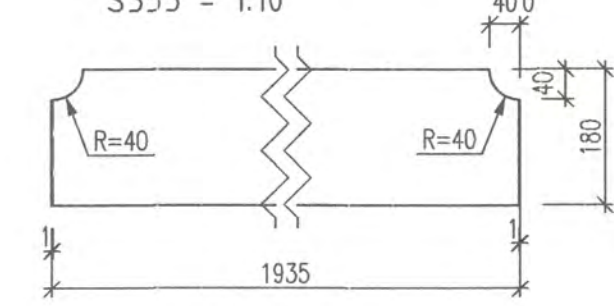
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S355 - 1:10



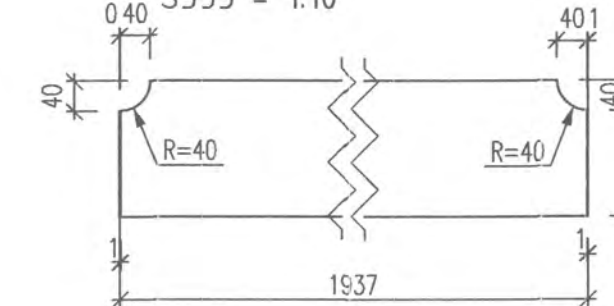
2x **234** PL 20x180x1934.66  
S355 - 1:10



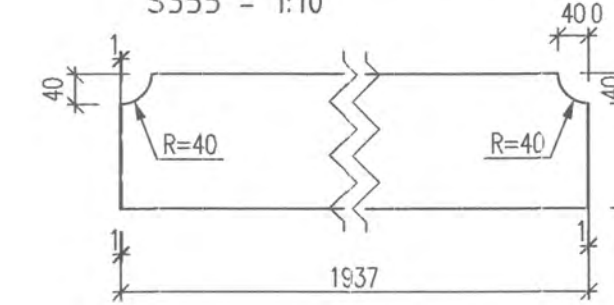
2x **235** PL 20x180x1934.66  
S355 - 1:10



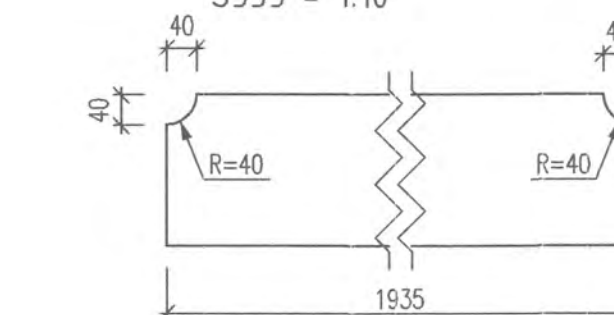
2x **236** PL 20x180x1937.3  
S355 - 1:10



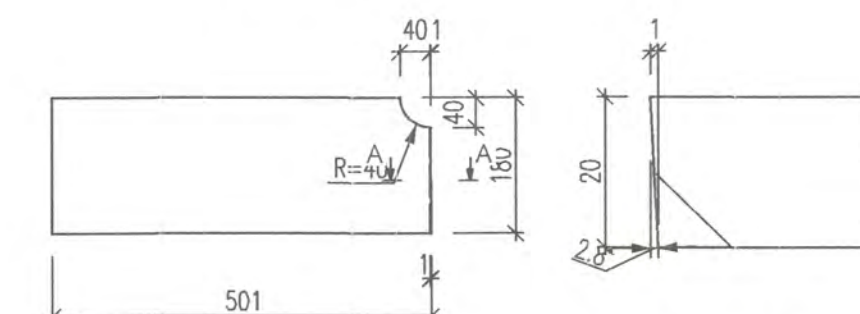
2x **237** PL 20x180x1937.3  
S355 - 1:10



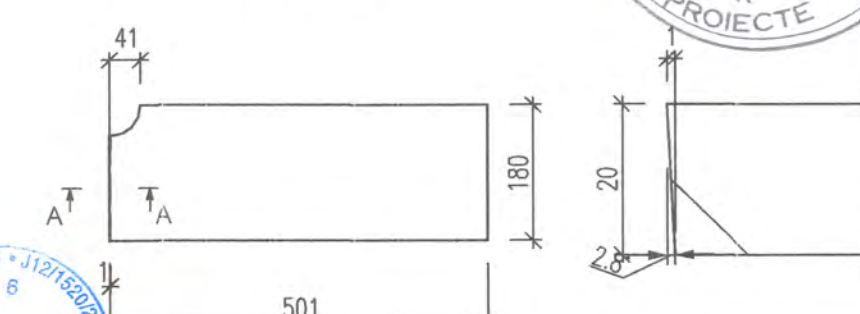
2x **238** PL 20x200x1935  
S355 - 1:10



20x **105** PL 20x180x500.98  
S355 - 1:10

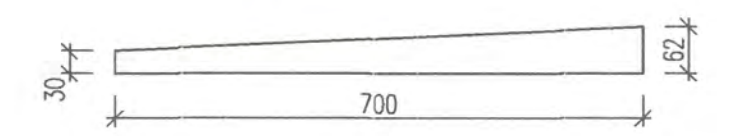


20x **106** PL 20x180x500.98  
S355 - 1:10

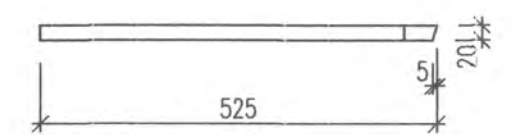


A - A

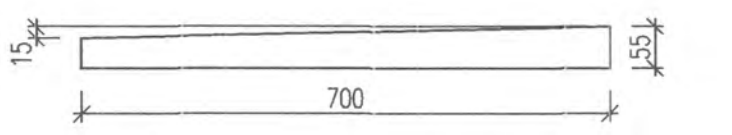
4x **189** PL 600x62.47x700  
S355 - 1:10



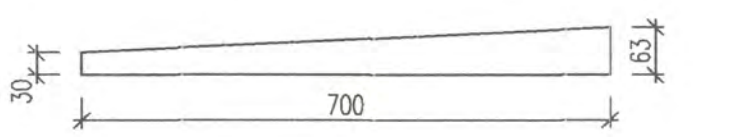
3x **198** PL 1933x20x525.17  
S355 - 1:10



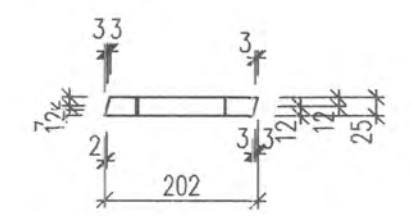
2x **246** PL 600x54.97x700  
S355 - 1:10



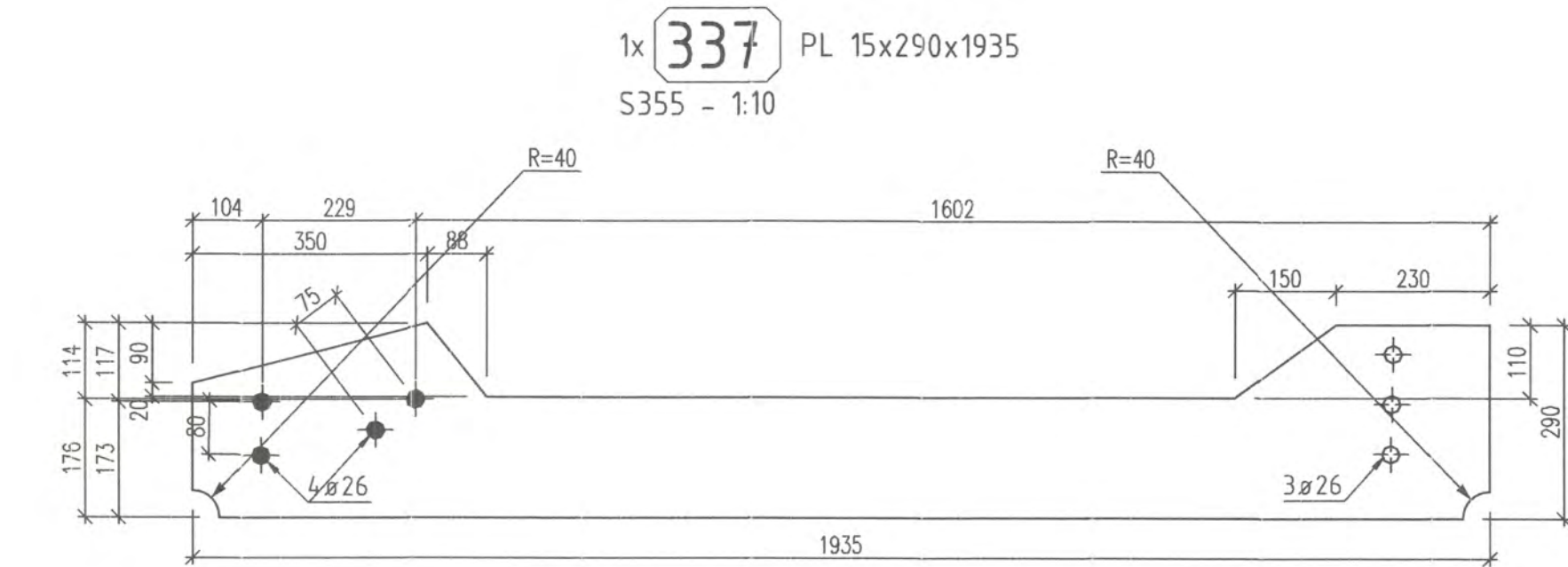
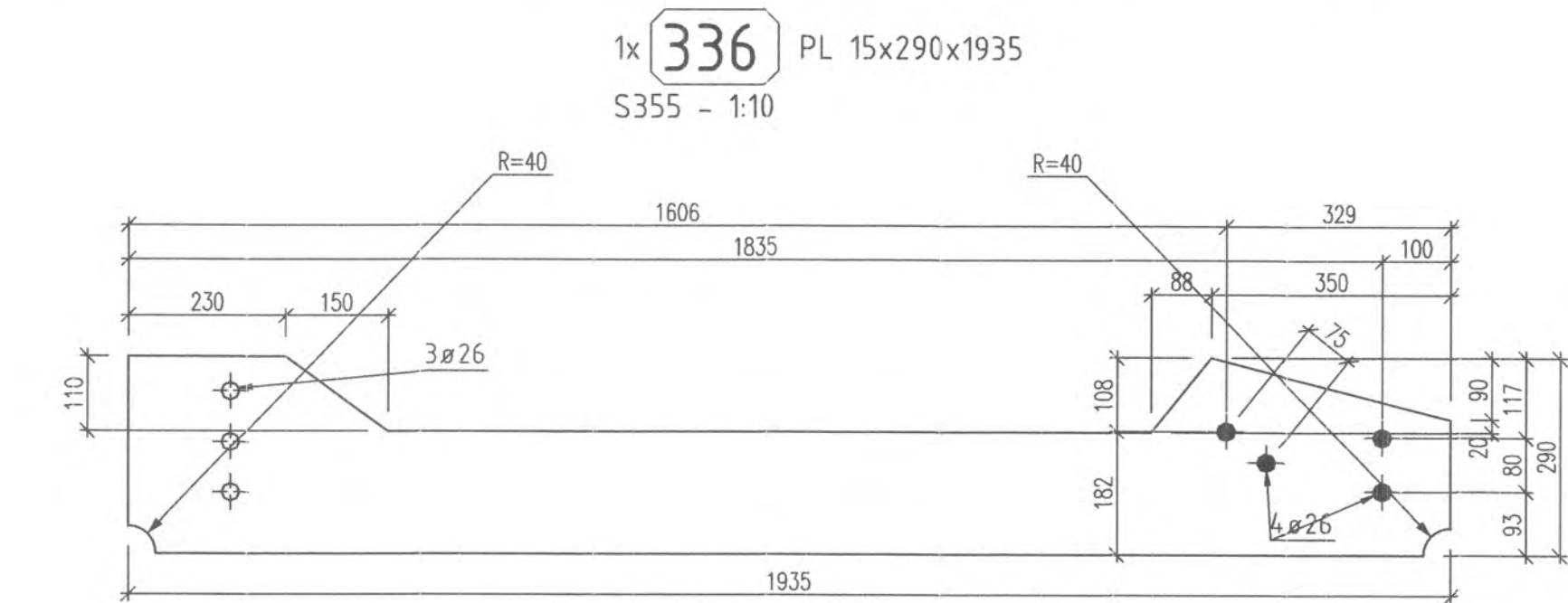
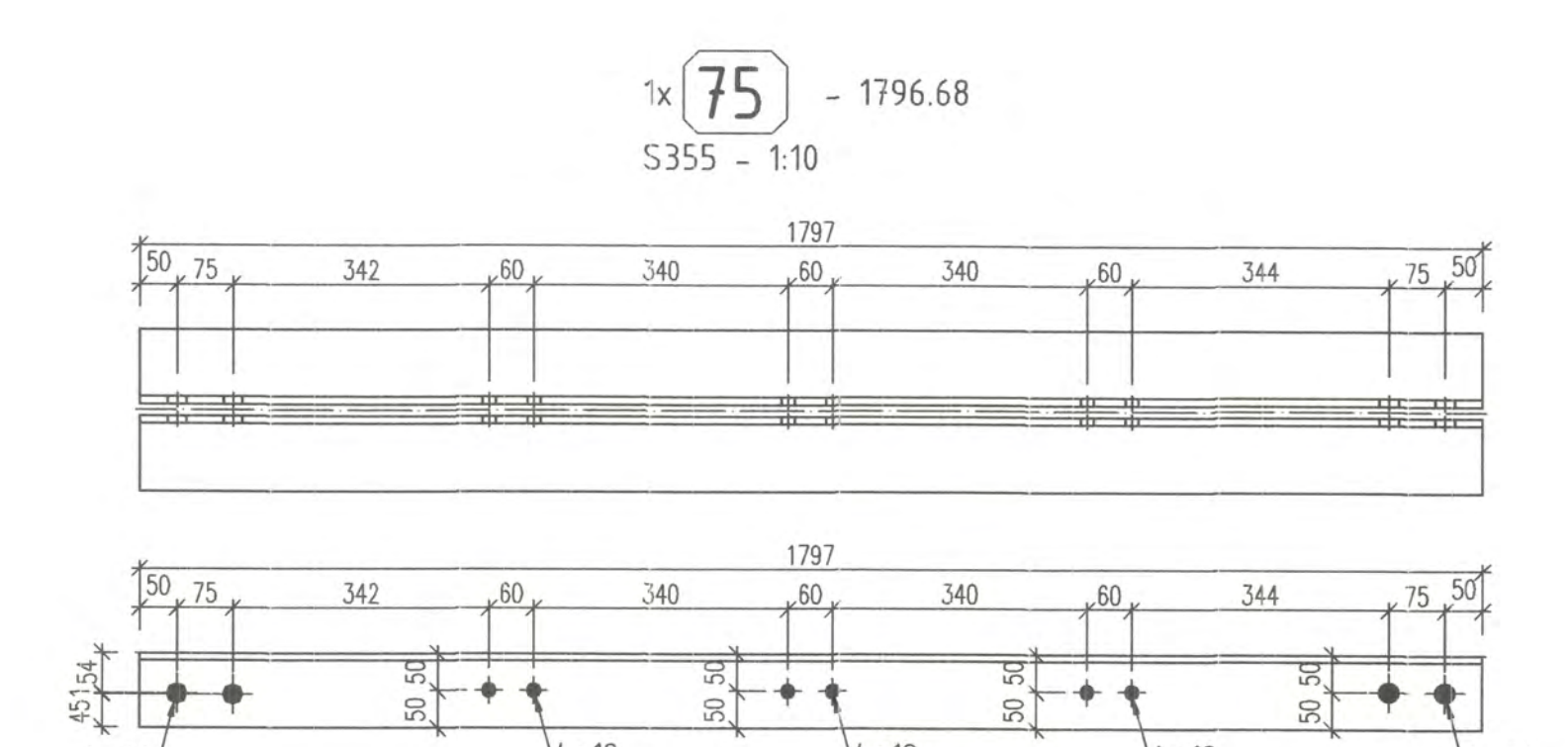
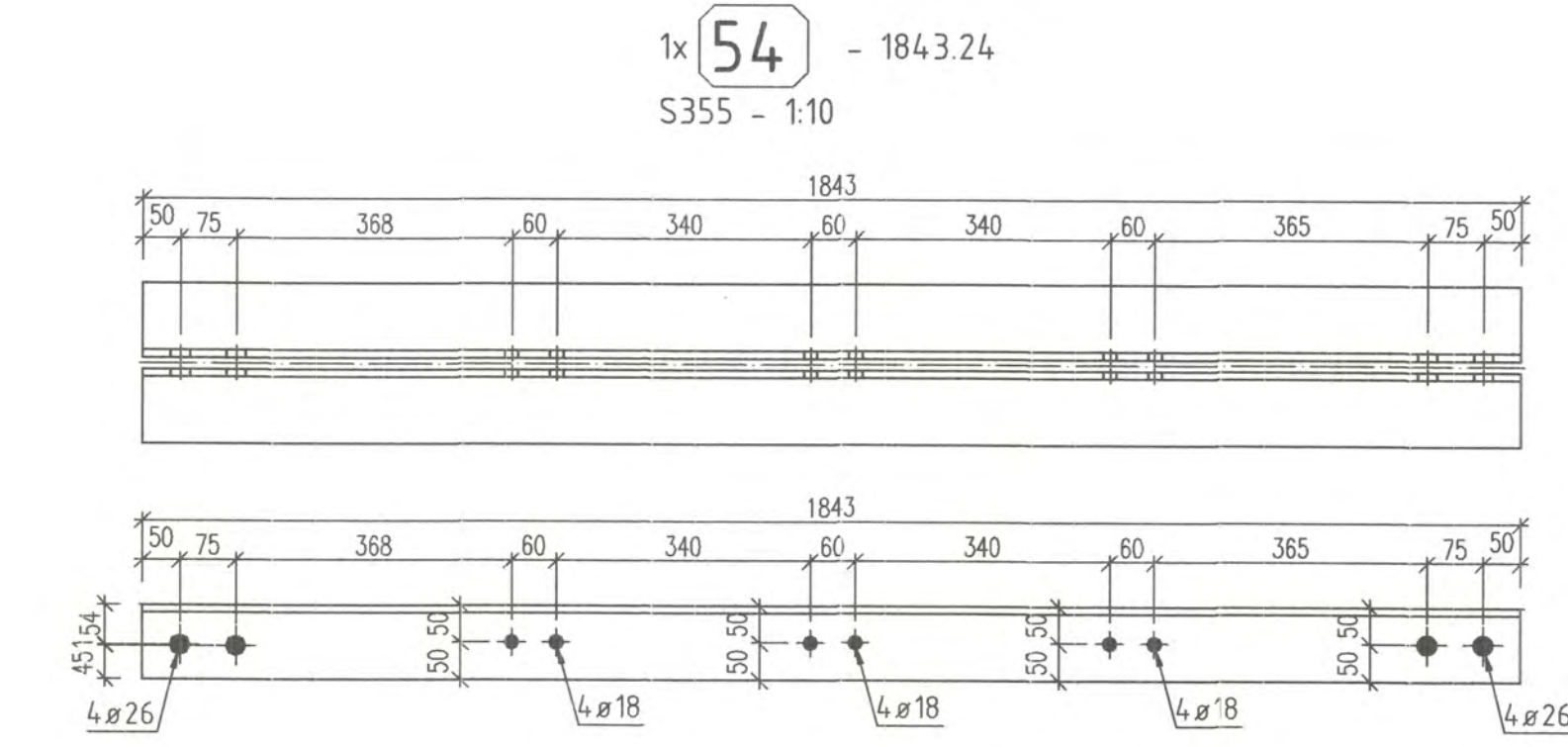
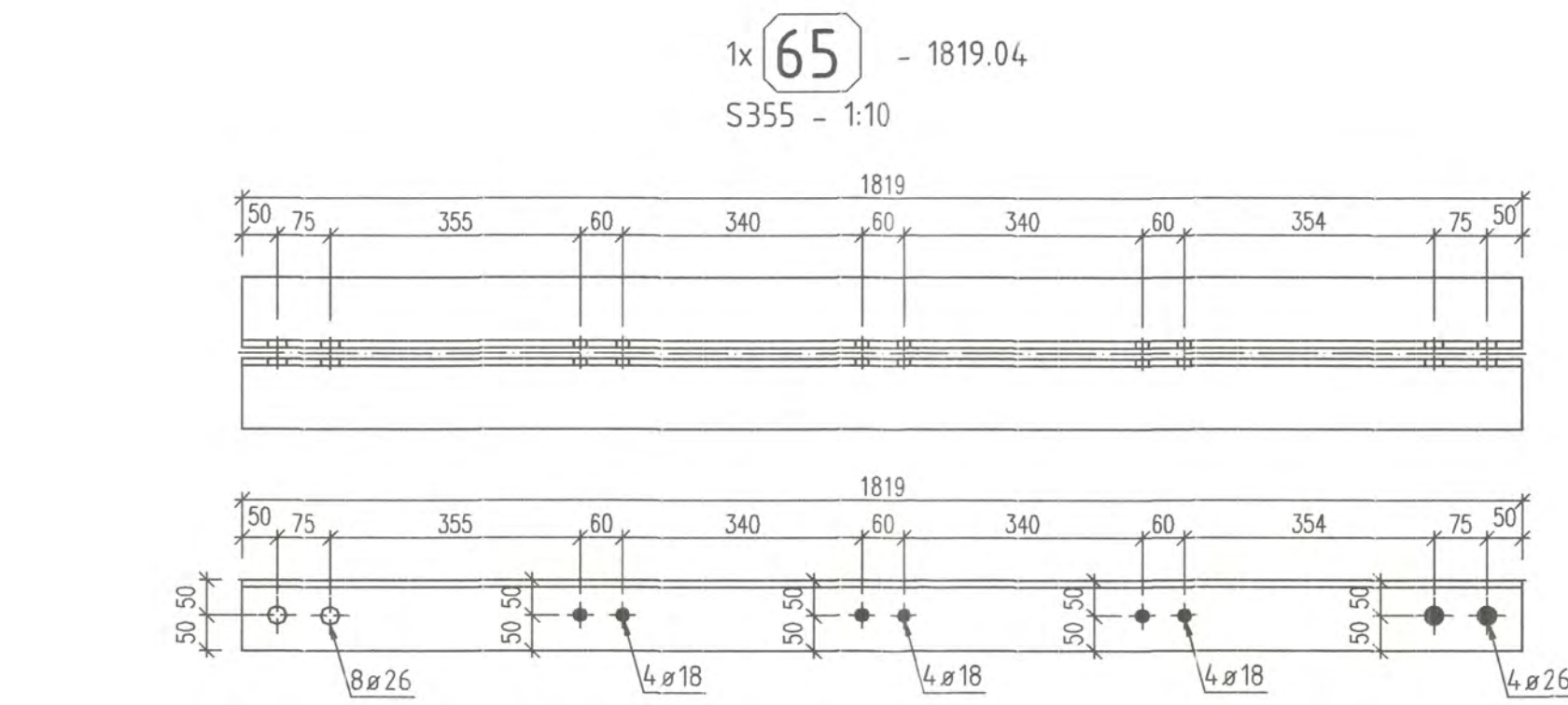
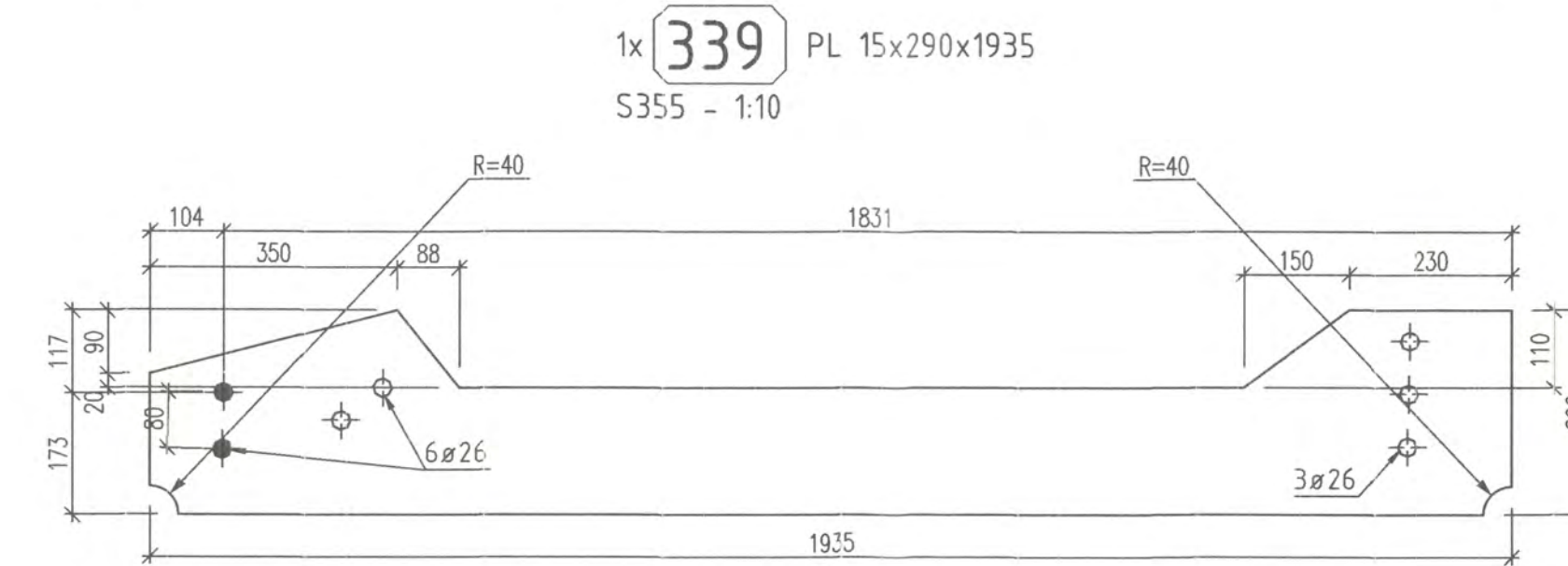
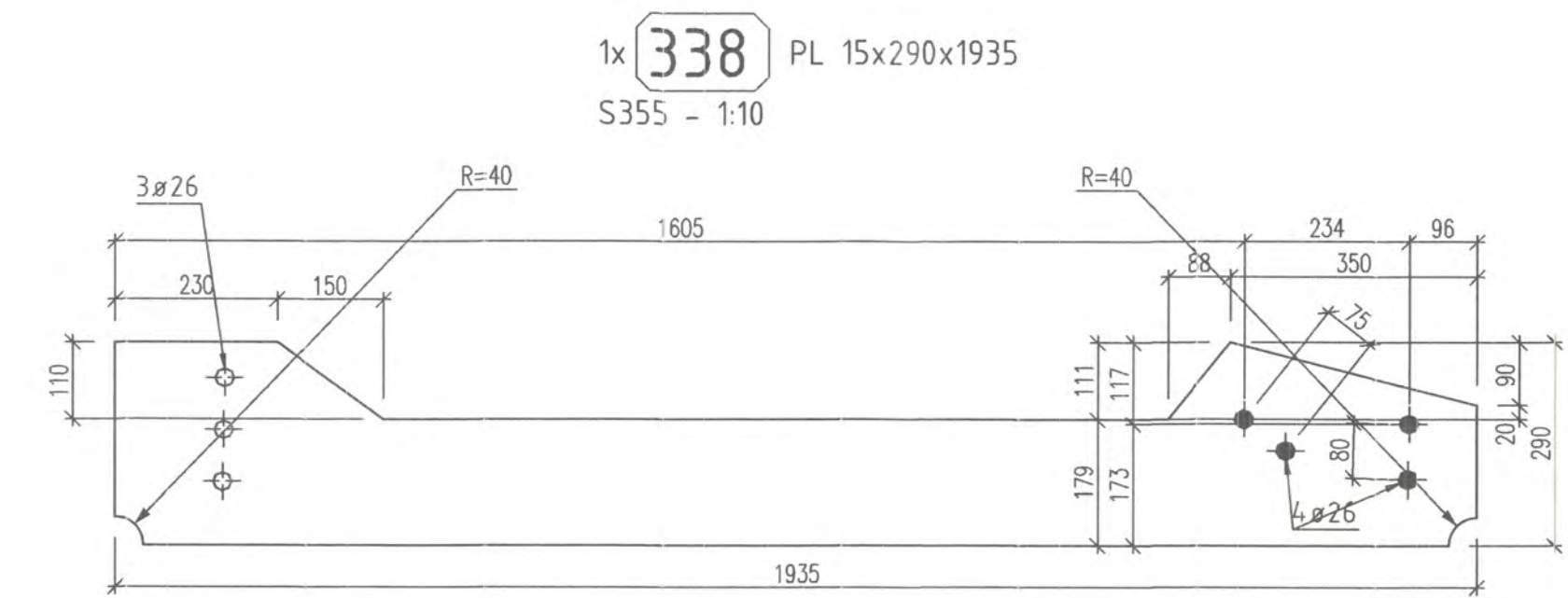
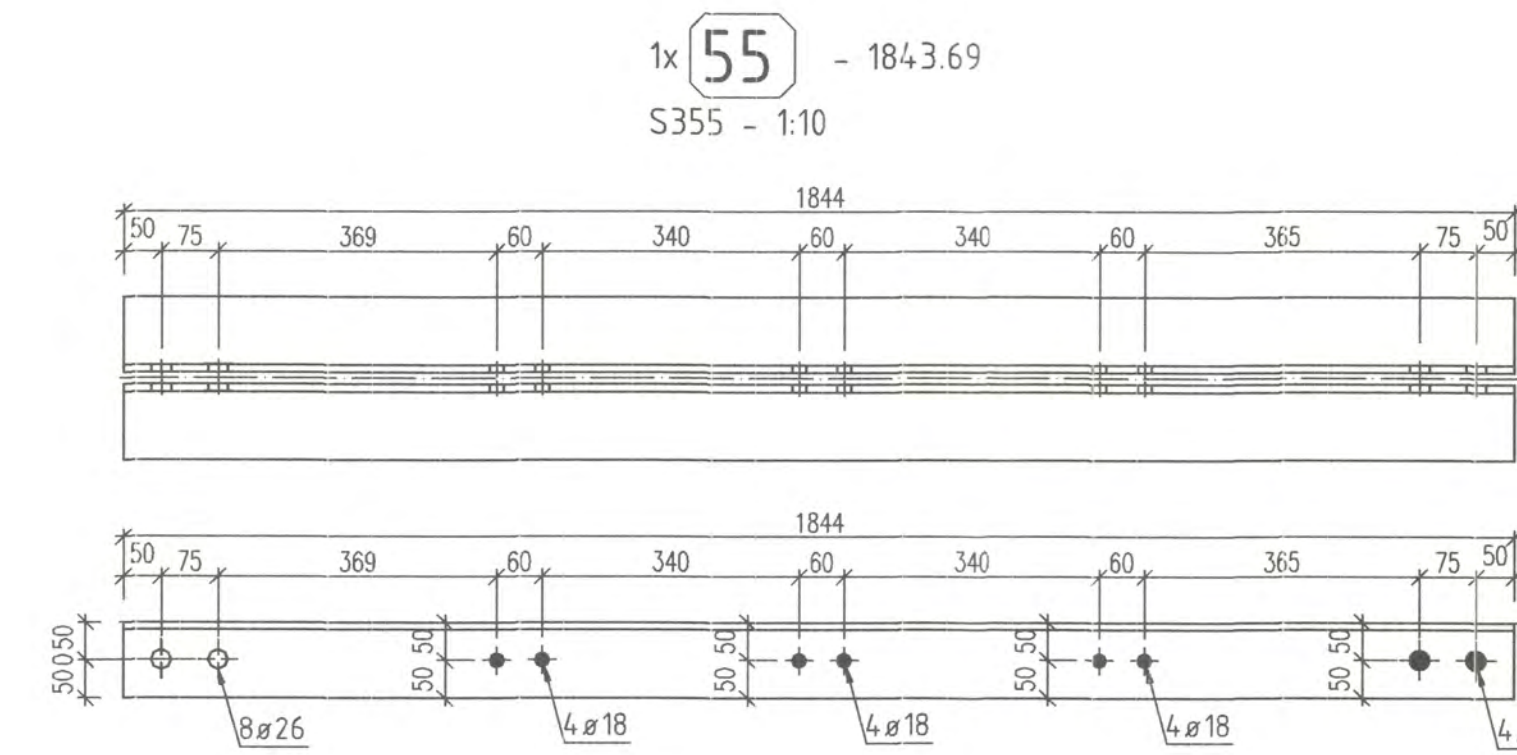
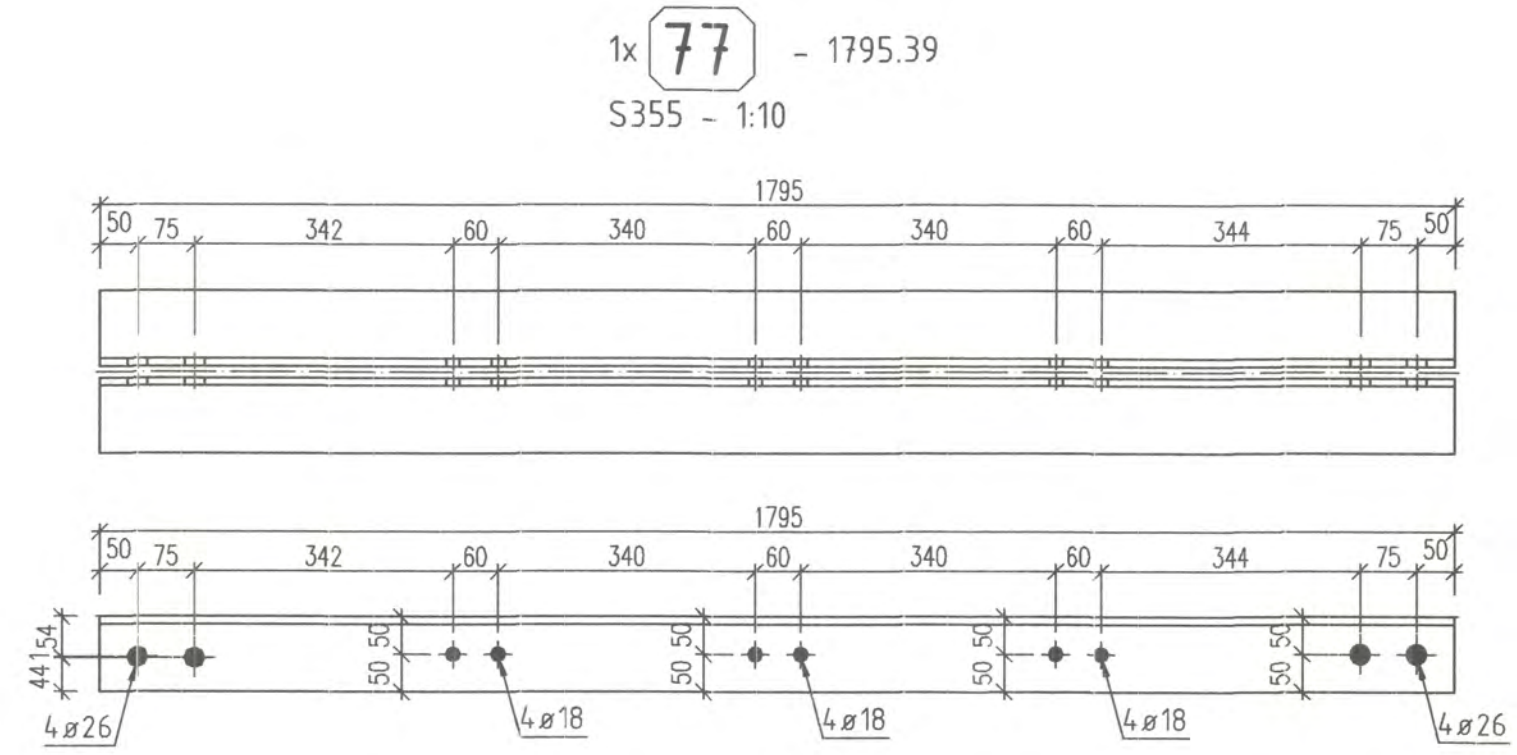
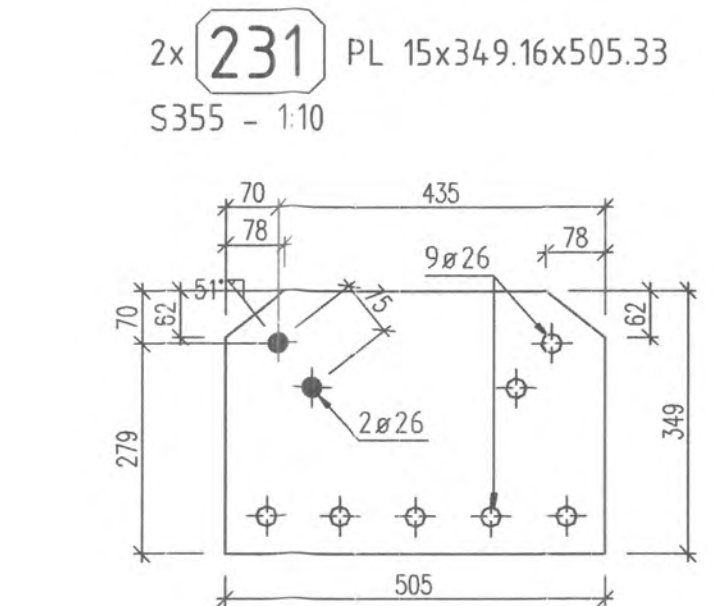
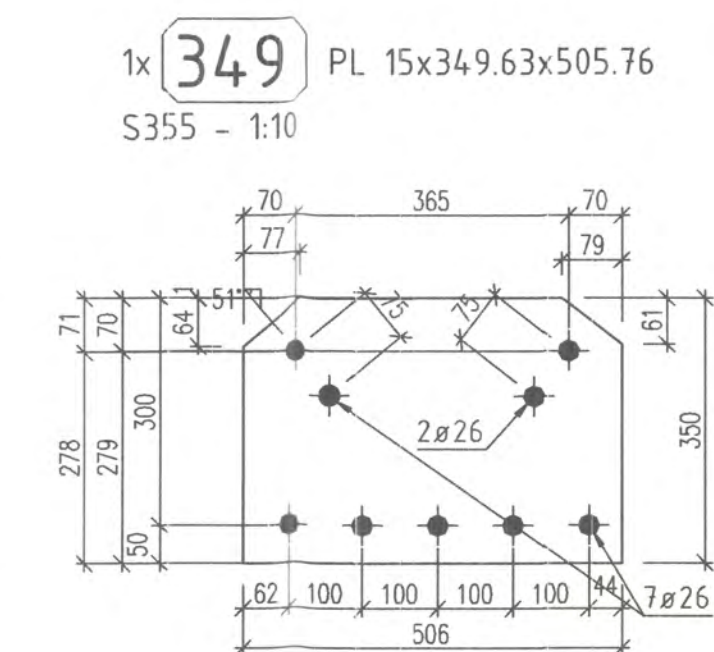
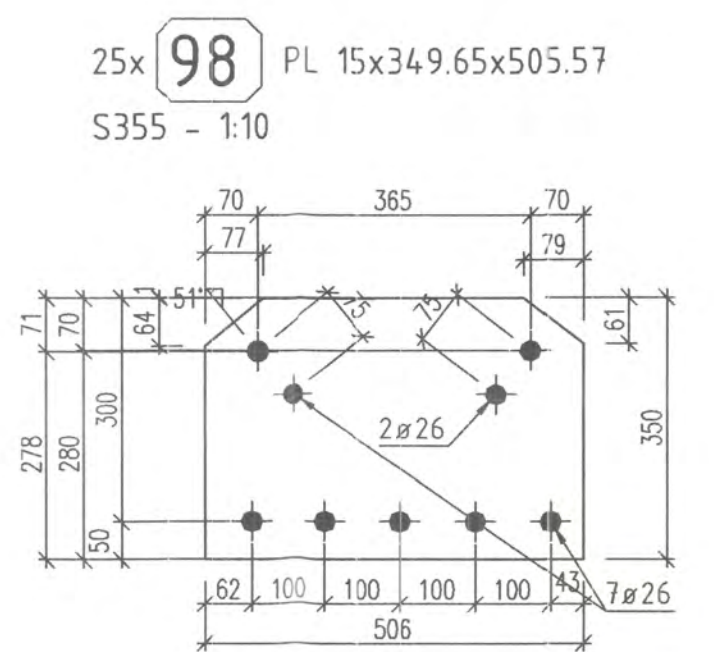
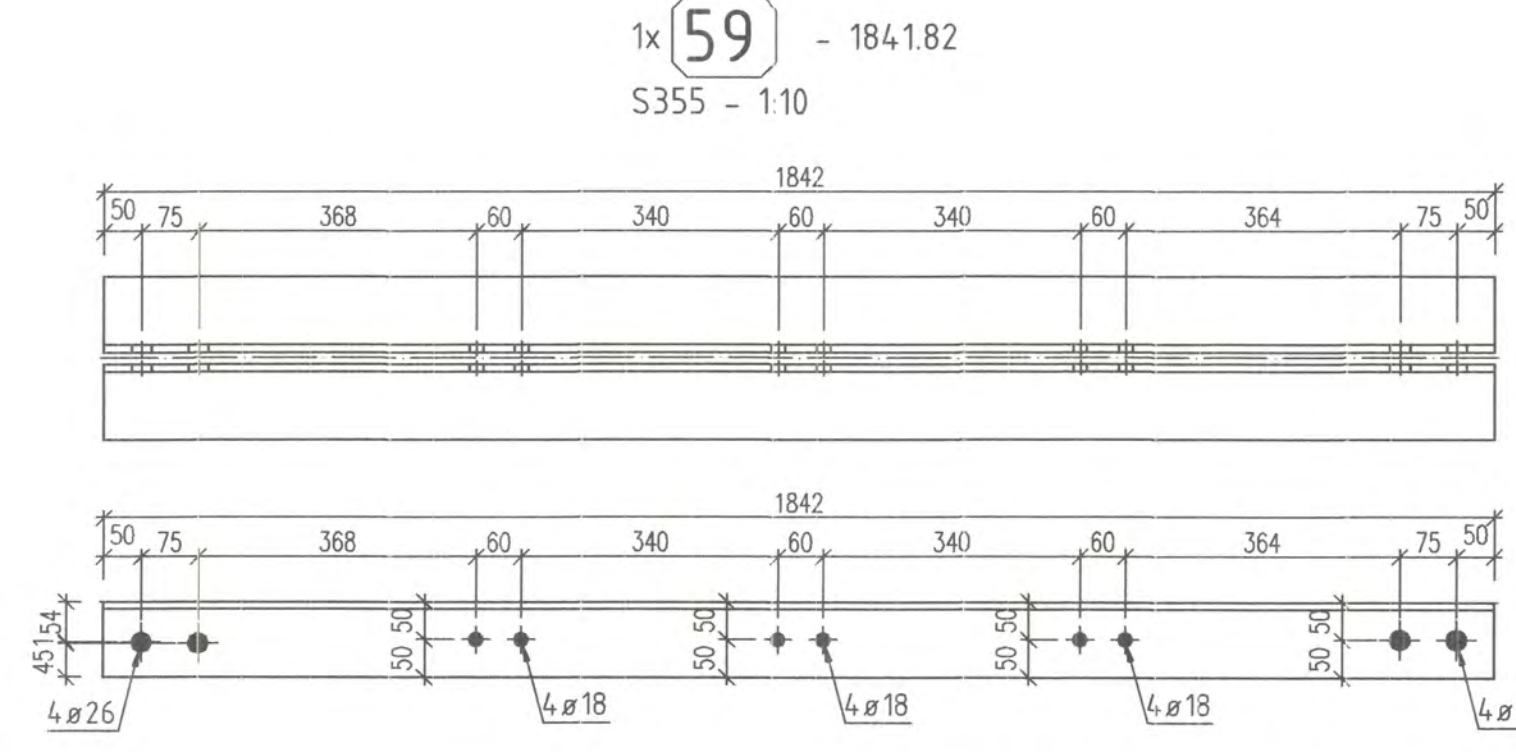
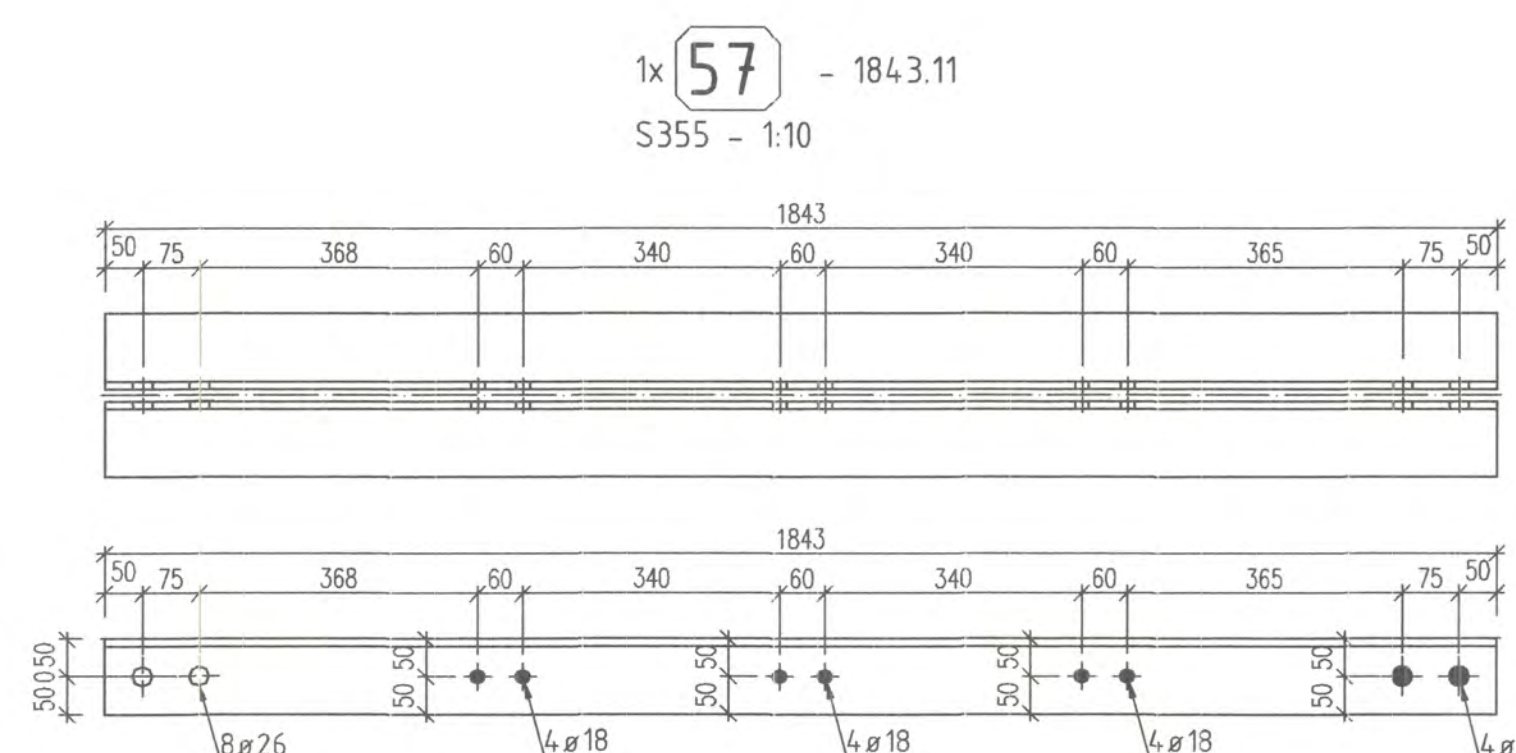
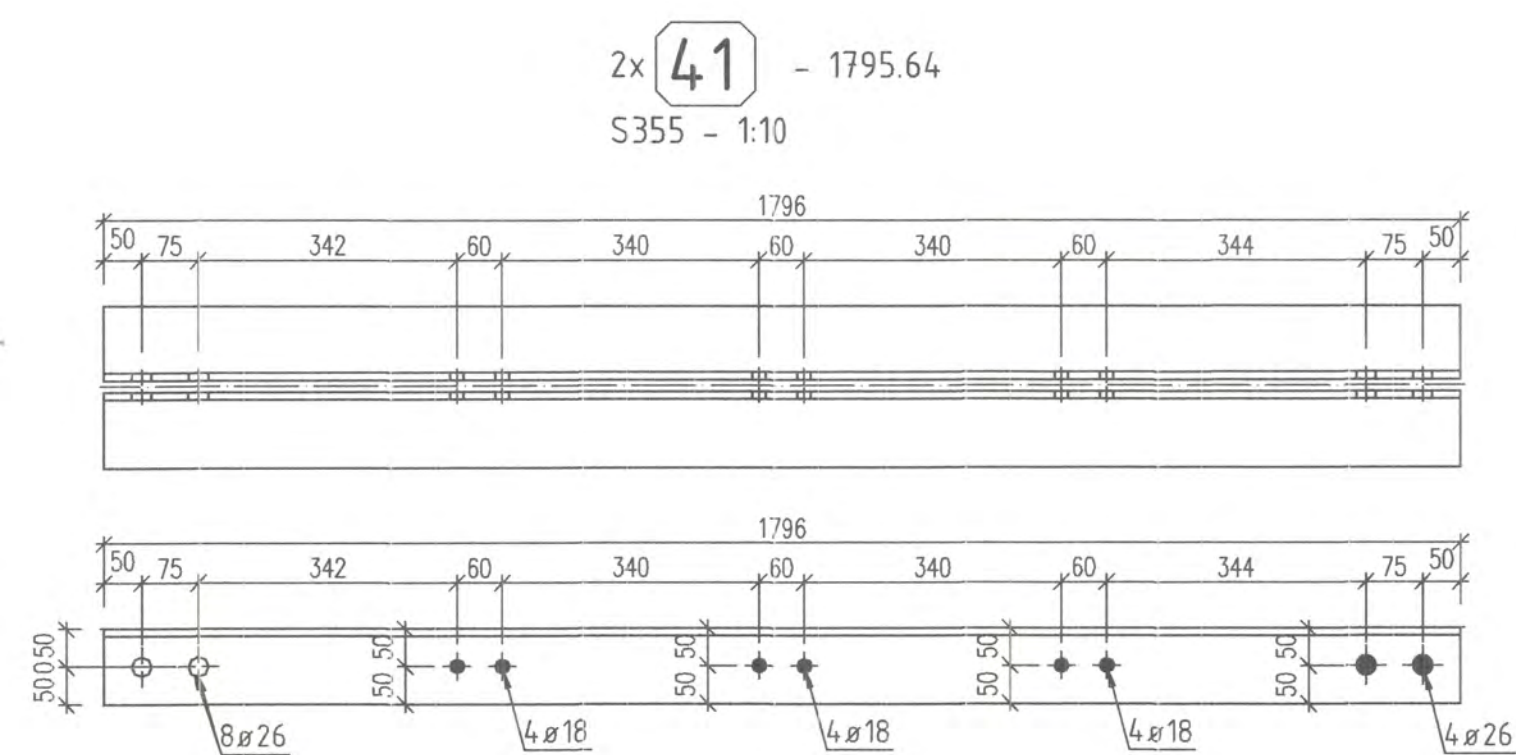
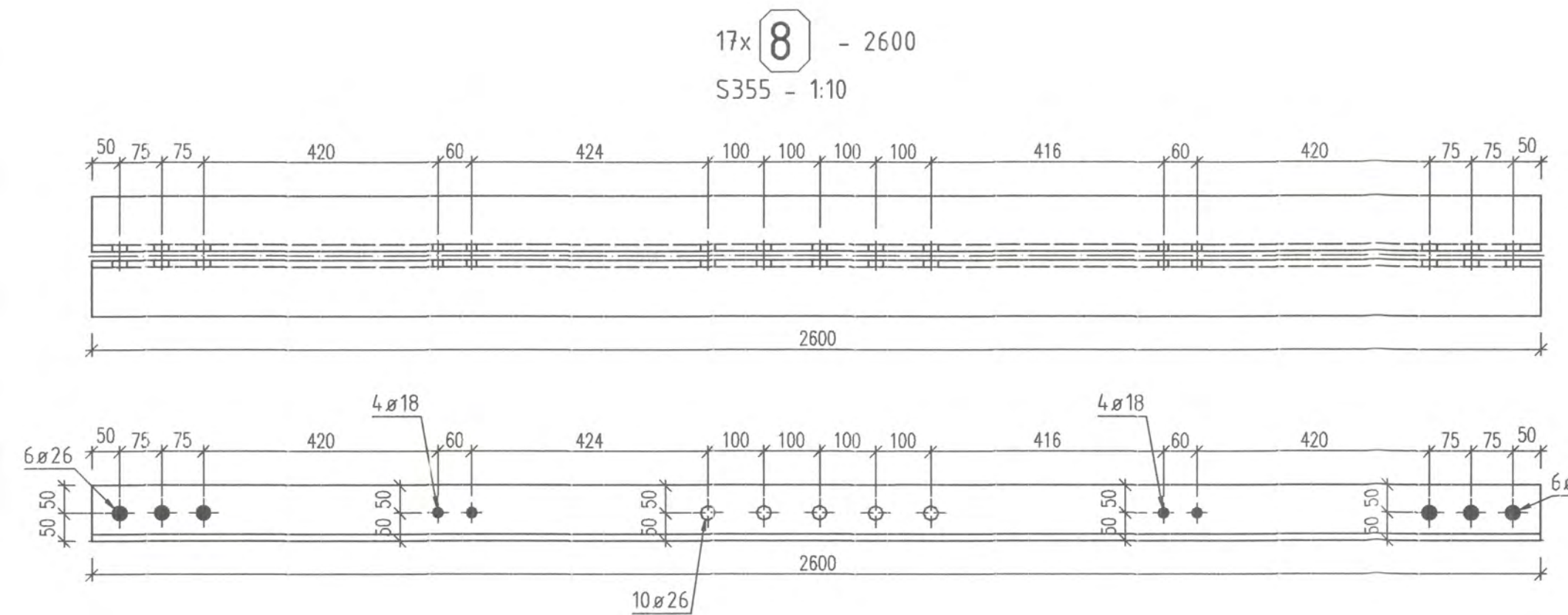
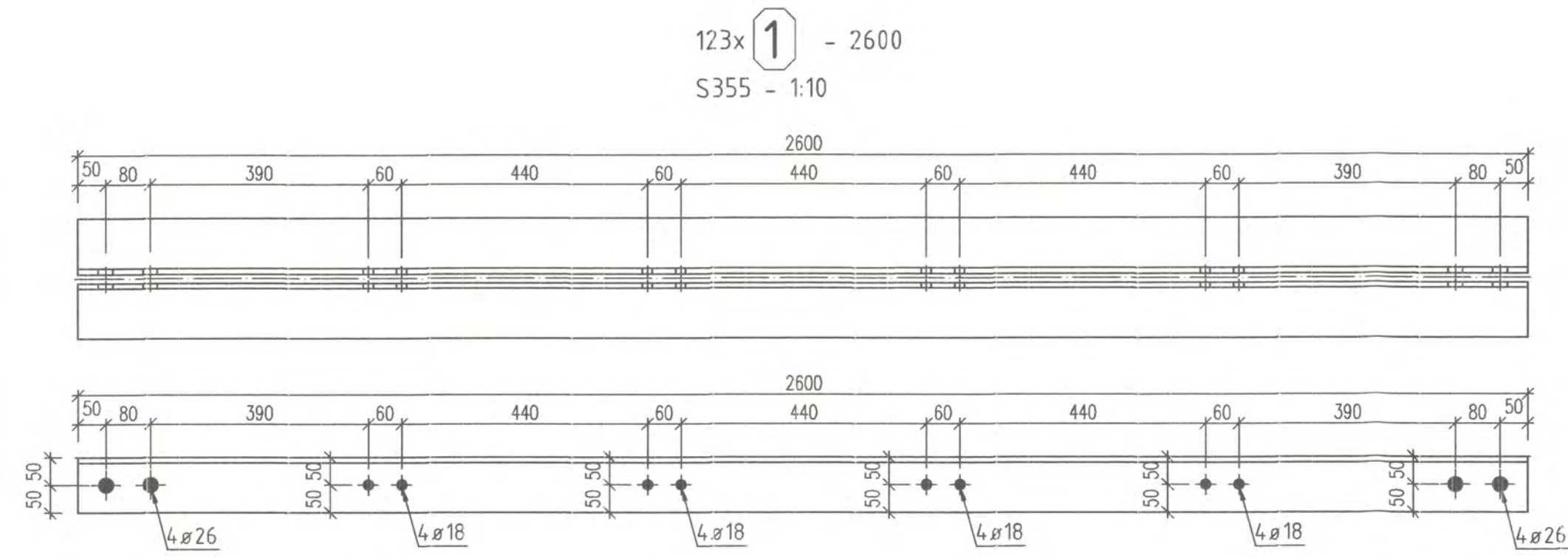
2x **249** PL 600x63.35x700  
S355 - 1:10



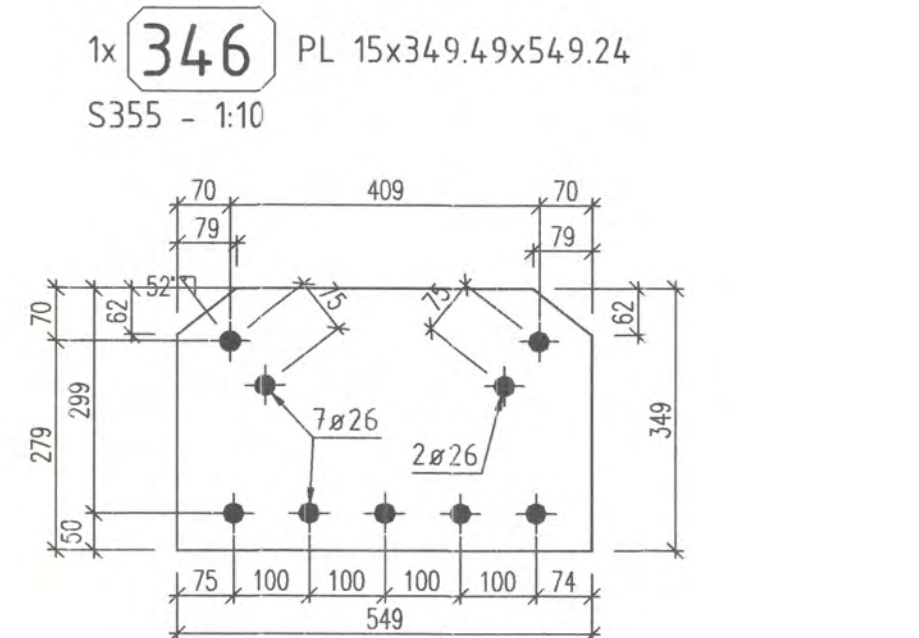
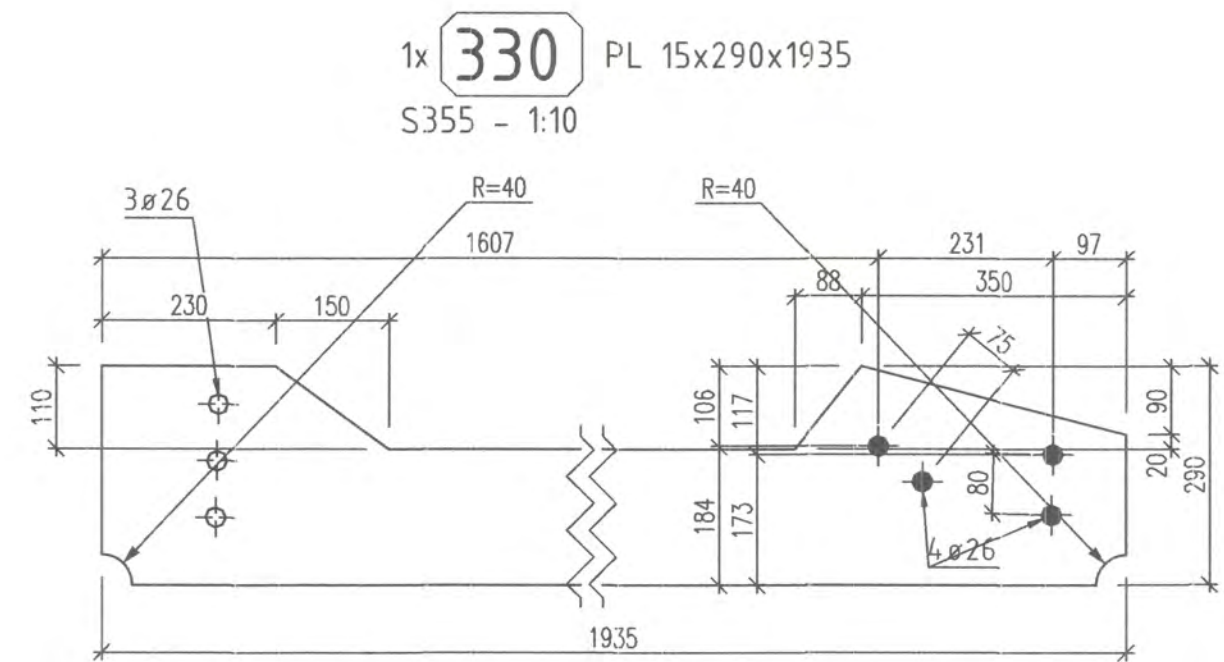
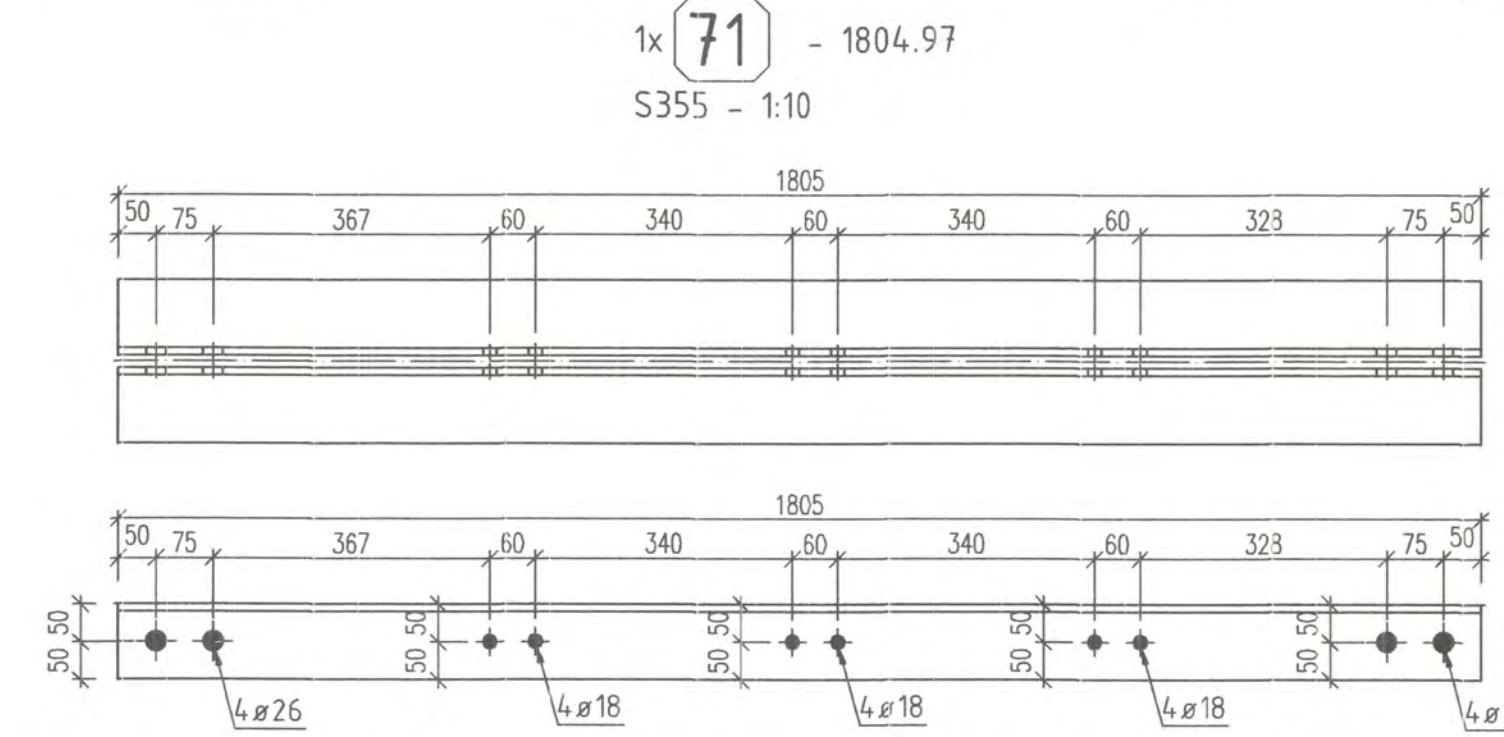
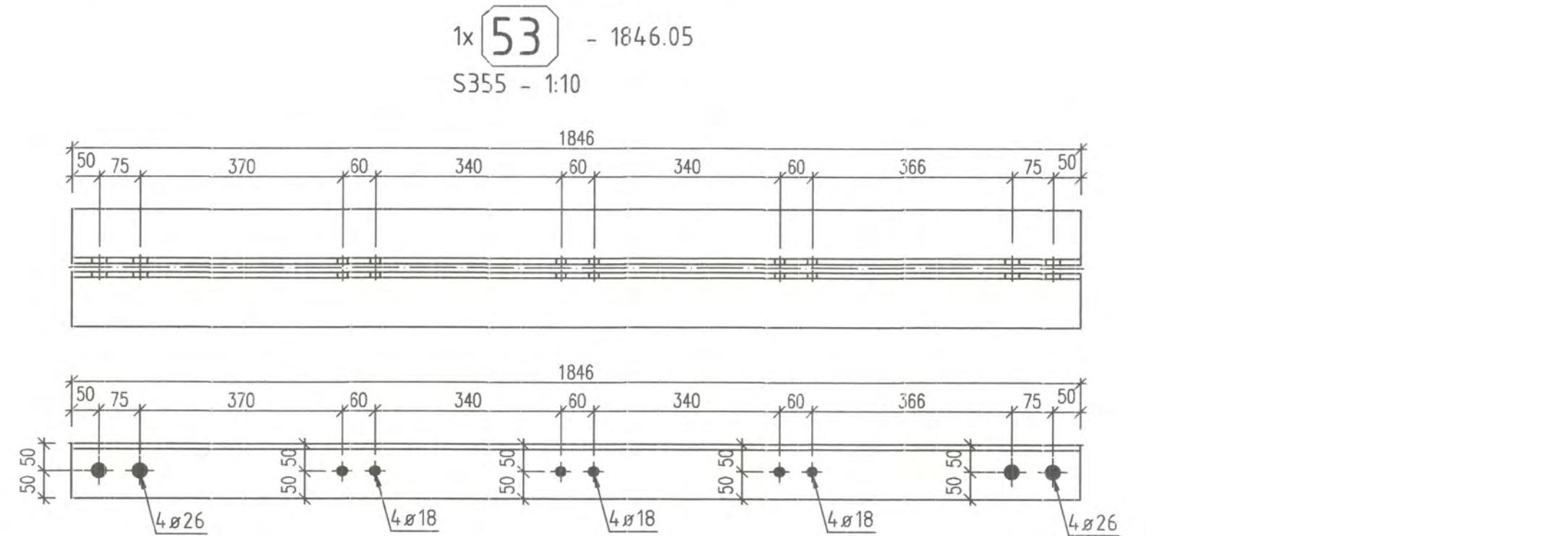
1x **355** PL 1933x25x202.38  
S355 - 1:10













Technical drawing of a rectangular plate with a rounded top-left corner. The corner radius is labeled  $R=40$ . The total width is 1935 and the total height is 506.

Technical drawing of a reinforced concrete slab (Figure 10.10). The drawing shows a rectangular slab with dimensions 505 (width) and 350 (depth). The slab is supported by a central column and two side columns. The reinforcement consists of 7 bars of diameter 25 (7Ø25) and 2 bars of diameter 26 (2Ø26). The drawing includes various dimensions for the slab, columns, and reinforcement layout.

Technical drawing of a bridge structure showing dimensions and reinforcement details. The drawing includes a plan view and a cross-section view. The plan view shows a rectangular structure with a total length of 1935 and a total width of 290. The cross-section view shows a trapezoidal shape with a top width of 150 and a bottom width of 230. The height of the cross-section is 110. The drawing also shows reinforcement details, including 4 #26 bars in the top and 3 #26 bars in the bottom. The drawing includes various dimensions and angles, such as 96, 243, 350, 88, 1597, 150, 230, 110, 290, 1935, 173, 193, 117, 97, 90, 20, 75, 108, 4 #26, 3 #26, R=40, and 1935.

[illegible]



10x **14** - 2600  
S355 - 1:10

3x **196** PL 15x349.19x505.4  
S355 - 1:10

1x **279** PL 15x290x1935  
S355 - 1:10

1x **61** - 1824.94  
S355 - 1:10

10x **15** - 1847.78  
S355 - 1:10

1x **324** PL 15x290x1935  
S355 - 1:10

11x **122** PL 15x290x1935  
S355 - 1:10

12x **12** - 1800.91  
S355 - 1:10

9x **18** - 1802.53  
S355 - 1:10

2x **228** PL 15x290x1935  
S355 - 1:10

9x **128** PL 15x290x1935  
S355 - 1:10

3x **30** - 1849.24  
S355 - 1:10

2x **38** - 1825.73  
S355 - 1:10

2x **229** PL 15x290x1935  
S355 - 1:10

1x **322** PL 15x290x1935  
S355 - 1:10

1x **52** - 1843.25  
S355 - 1:10

1x **60** - 1824.95  
S355 - 1:10

1x **287** PL 15x290x1935  
S355 - 1:10

1x **323** PL 15x290x1935  
S355 - 1:10



Technical drawing of a reinforced concrete slab cross-section showing reinforcement layout for two spans. The top diagram shows the slab profile with dimensions: 50, 75, 368, 60, 340, 1843, 340, 60, 365, 75, 50. The bottom diagram shows the reinforcement layout with labels: 4ø26, 4ø18, 4ø18, 4ø18, 4ø26. Vertical dimensions on the left and right are 50, 50, 50, 50, 50.

Technical drawing of a reinforced concrete slab cross-section. The top part shows a plan view with dimensions: 50, 75, 355, 60, 340, 60, 340, 60, 355, 75, 50. The bottom part shows a cross-section with dimensions: 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50. The cross-section also shows reinforcement bars with diameters: 4 ø 26, 4 ø 18, 4 ø 18, 4 ø 18, 4 ø 18, 4 ø 26. The total width is 1821.

Technical drawing of a reinforced concrete slab cross-section. The top part shows a plan view with dimensions: 50, 75, 355, 60, 340, 60, 340, 60, 354, 75, 50. The bottom part shows a cross-section with dimensions: 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50. The cross-section also shows reinforcement bars with diameters: 4ø26, 4ø18, 4ø18, 4ø18, 4ø26. The total width is 1819.

Technical drawing of a mechanical part with dimensions and tolerances. The drawing shows a side view of a component with a total length of 1935 and a total height of 290. The left side features a vertical profile with a total height of 180, a top flange of 110, and a base of 20. The top flange has a width of 330 and a central hole with a diameter of 26. The base has a width of 350 and a central hole with a diameter of 26. The right side has a total height of 290 and a top flange of 144. The top flange has a width of 230 and a central hole with a diameter of 26. The base has a width of 150 and a central hole with a diameter of 26. The drawing includes various dimension lines and tolerances, such as  $R=40$  for radii and  $3 \pm 0.26$  for hole diameters.

Technical drawing of a road cross-section showing two variants of a 2600mm wide road. The drawing includes dimensions for the road width, base width, and shoulder width, as well as a scale bar.

**Variant 1 (Top):** Shows a road with a 520mm wide base and 390mm wide shoulders. The total width is 2600mm. The base width is 440mm. The shoulder width is 390mm. The drawing includes dimensions for the road width, base width, and shoulder width, as well as a scale bar.

**Variant 2 (Bottom):** Shows a road with a 500mm wide base and 390mm wide shoulders. The total width is 2600mm. The base width is 440mm. The shoulder width is 390mm. The drawing includes dimensions for the road width, base width, and shoulder width, as well as a scale bar.

Technical drawing of a rectangular reinforcement cage for a concrete slab. The cage is 650 units wide and 255 units high. It features 12 horizontal bars (12ø26) and 9 vertical bars (9ø20). Horizontal spacing: 45, 80, 80, 90, 80, 80, 80, 45. Vertical spacing: 50, 80, 80, 45. A label "48x 91 PL 25x170x500" is present at the bottom.

Technical drawing of a mechanical part, likely a bracket or arm, showing dimensions and features. The part has a total length of 1935 and a total height of 290. Key dimensions include a top flange width of 150, a central section width of 1607, and a bottom flange width of 328. There are three holes with a diameter of 26, and a fillet radius of R=40 at the bottom right corner. The drawing is labeled 'Fig. 1' and 'Fig. 2'.

Technical drawing of a rectangular reinforcement layout for a slab. The drawing shows a grid of reinforcement bars with dimensions: total width 1790, total length 350, and bar spacing 100. The drawing includes a detail view of a corner reinforcement bar labeled 72 Ø 26.

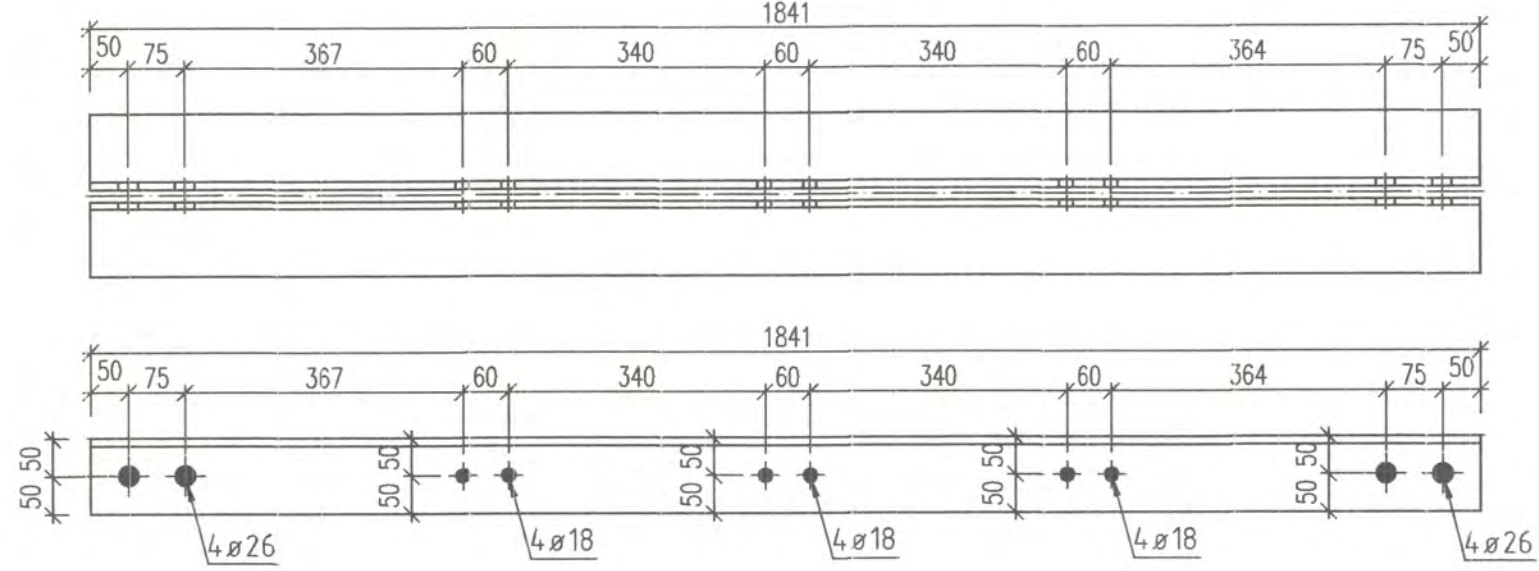
The drawing shows a plan view of a reinforced concrete slab. The overall dimensions are 1803 mm in width and 50 mm in thickness. The slab is divided into sections with the following dimensions: 50, 75, 348, 60, 340, 60, 340, 60, 345, 75, 50. The reinforcement details are as follows:

- Top reinforcement: 4  $\varnothing 26$  (at the ends) and 4  $\varnothing 18$  (in the middle sections).
- Bottom reinforcement: 4  $\varnothing 18$  (in the middle sections) and 4  $\varnothing 26$  (at the ends).

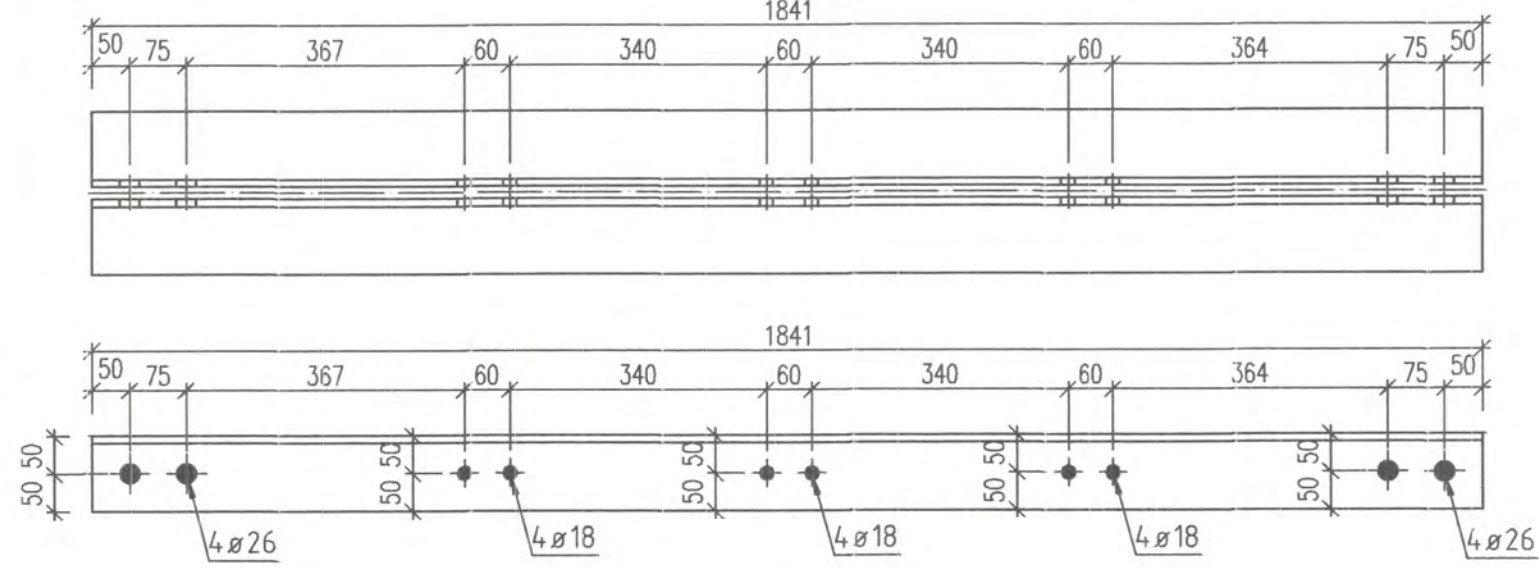




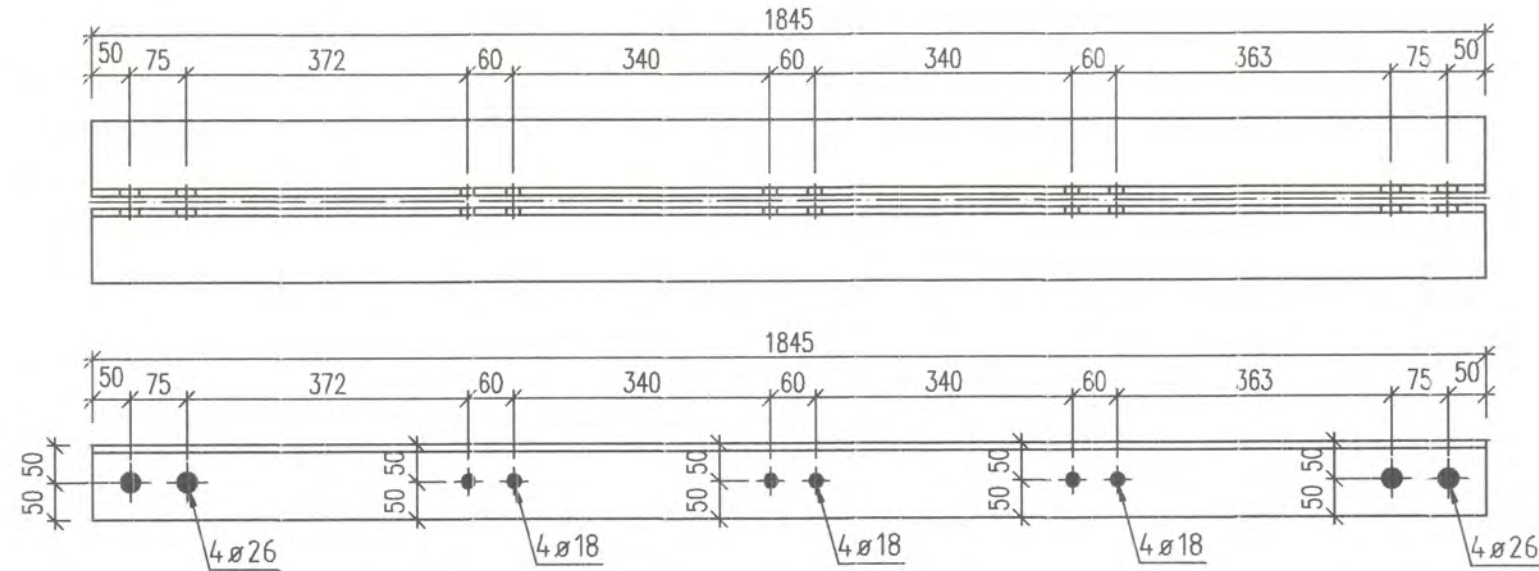
21x **7** - 1840.71  
S355 - 1:10



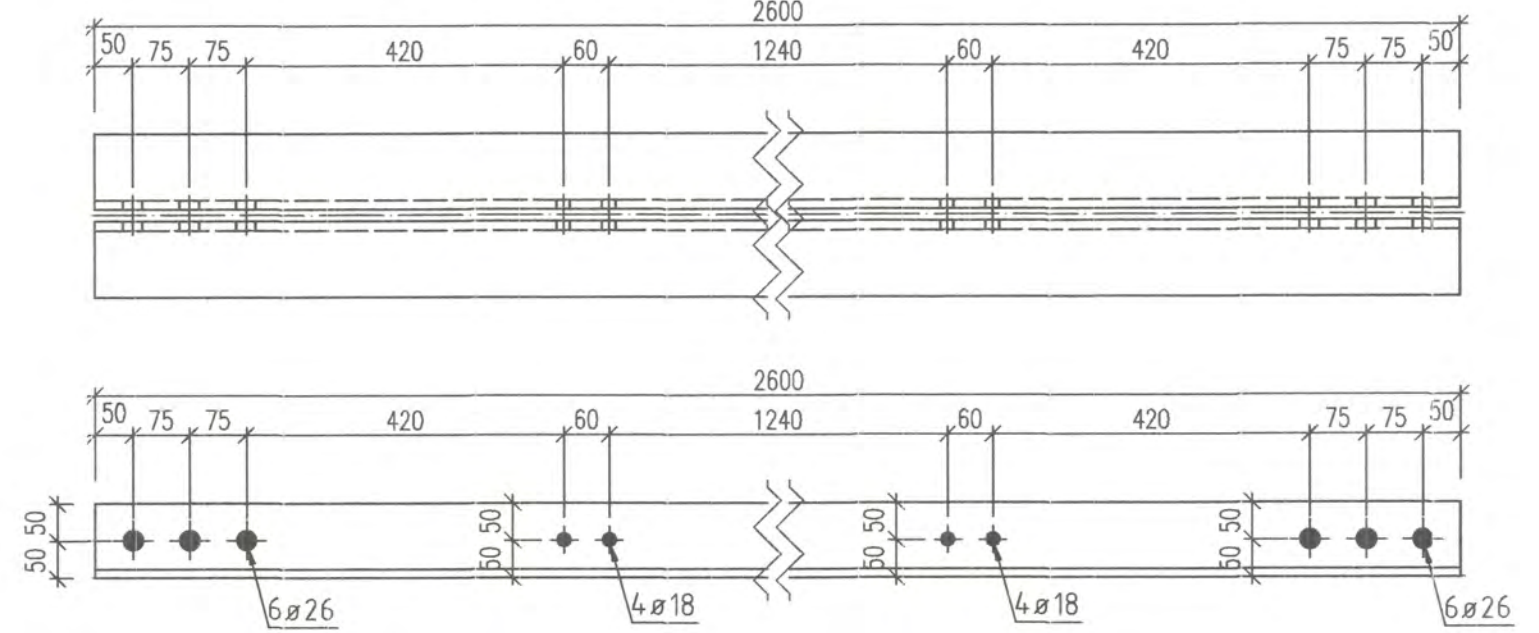
14x **10** - 1841.43  
S355 - 1:10



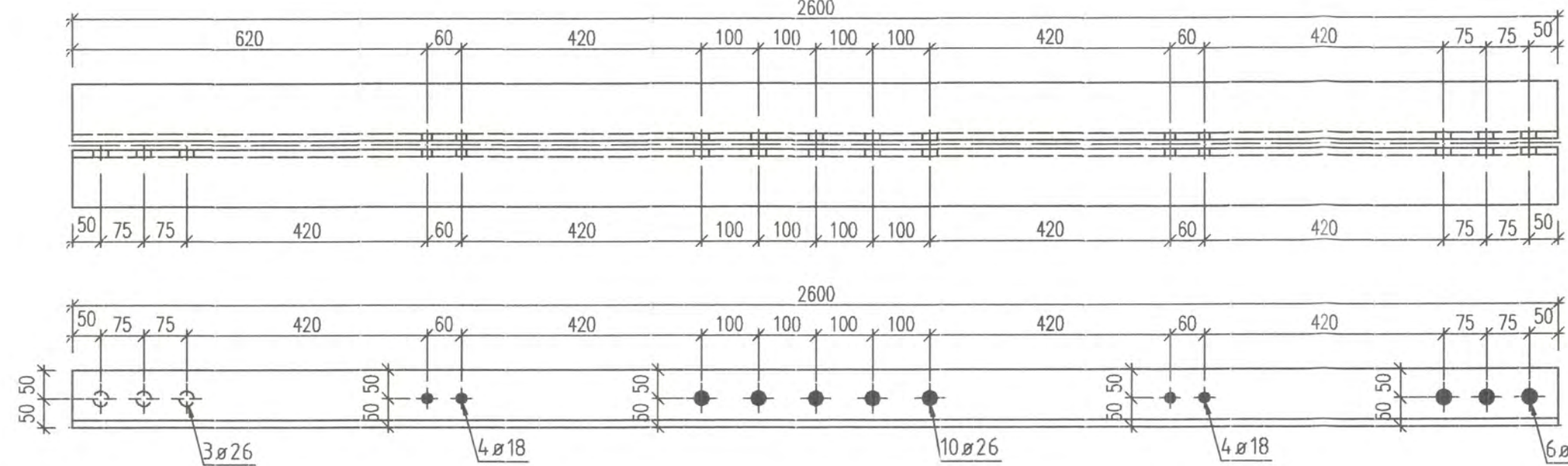
7x **22** - 1845.3  
S355 - 1:10



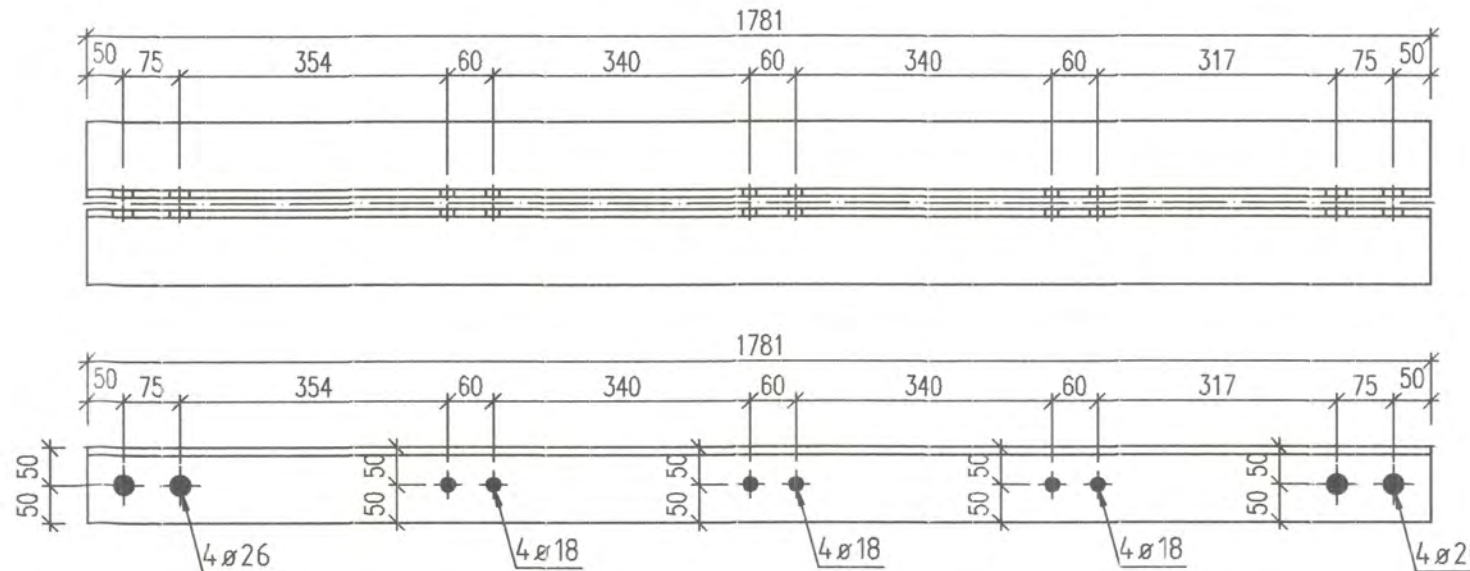
2x **34** - 2600  
S355 - 1:10



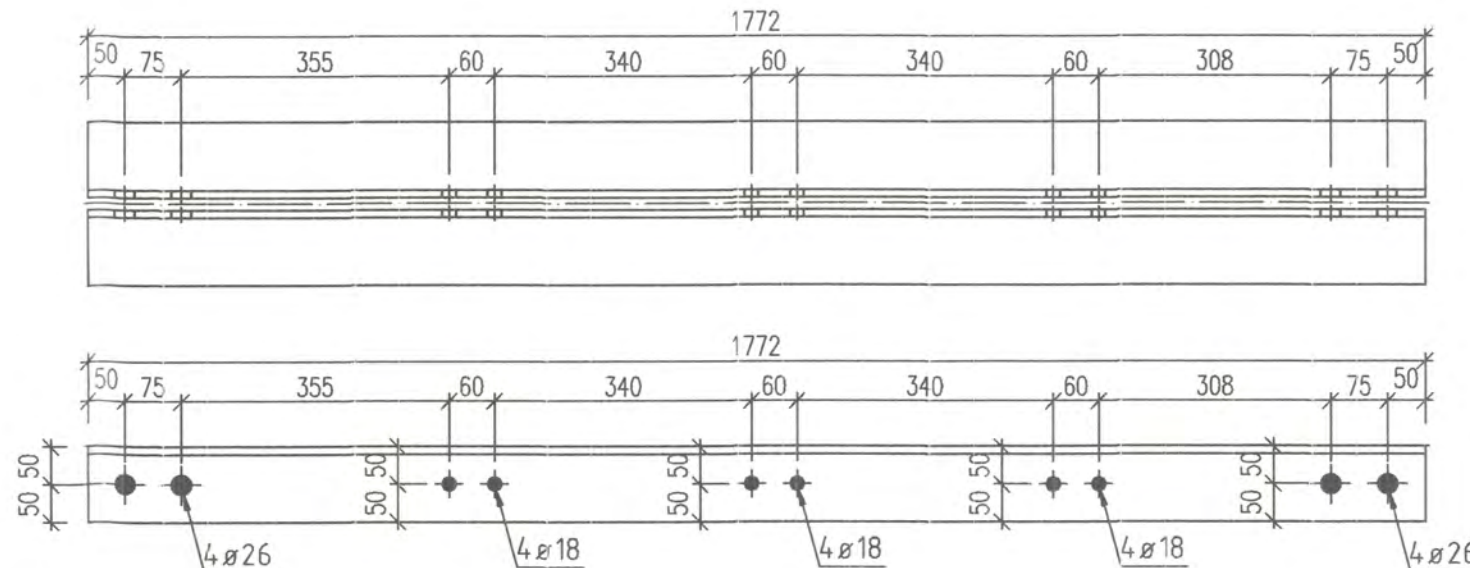
1x **46** - 2600  
S355 - 1:10



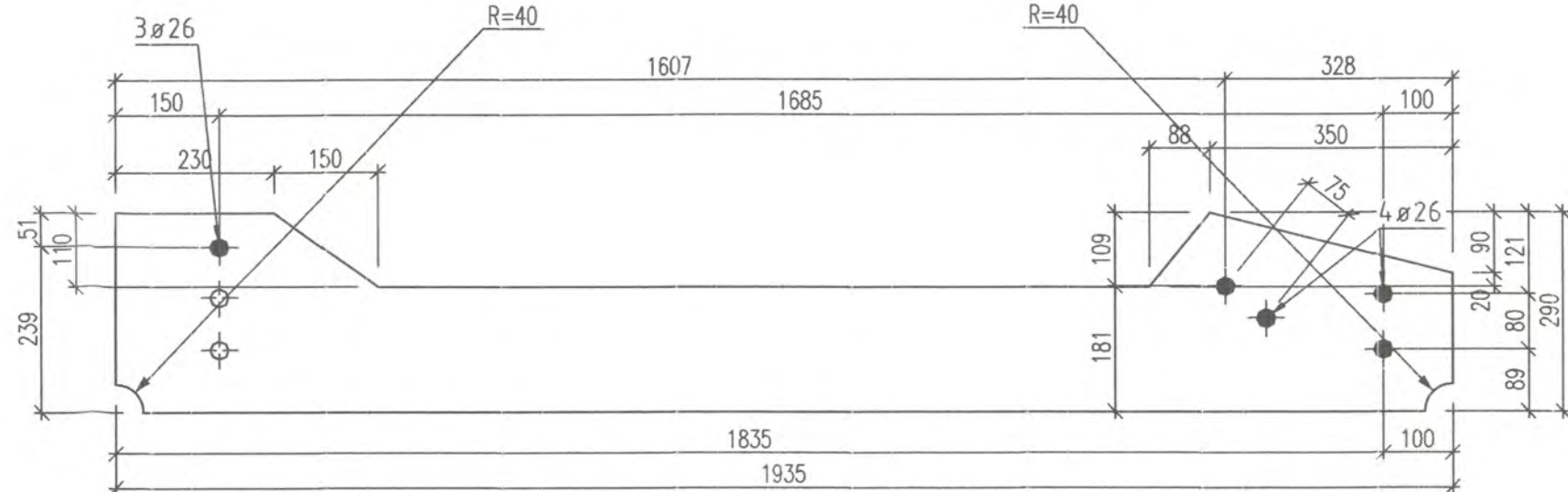
1x **79** - 1781  
S355 - 1:10



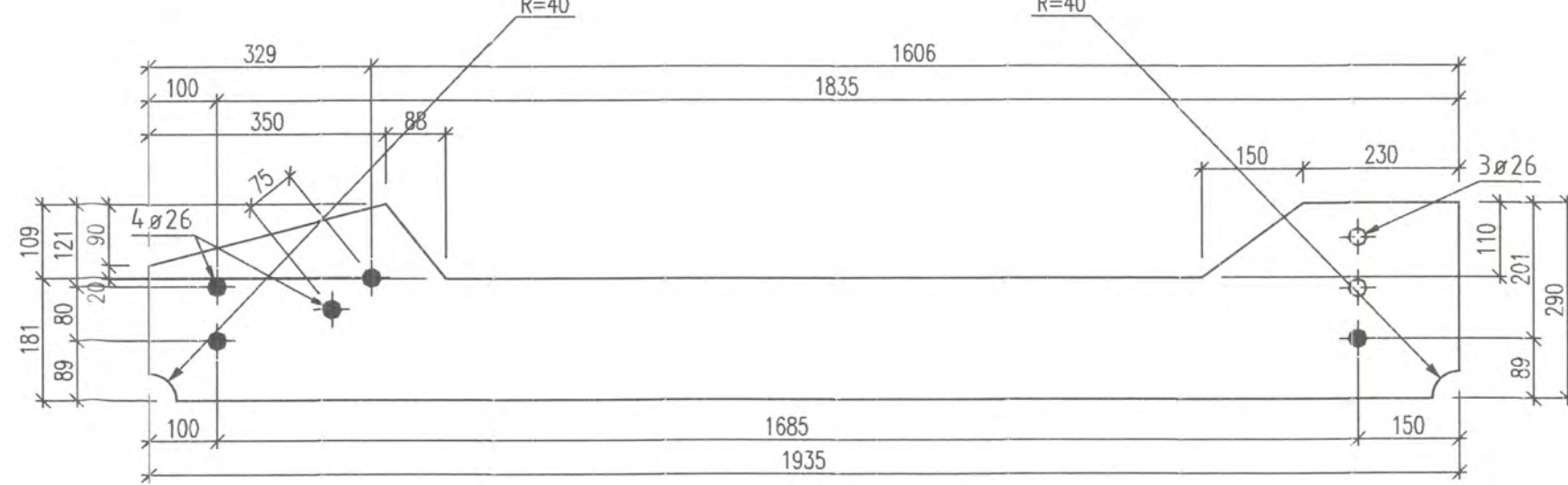
1x **80** - 1772.14  
S355 - 1:10



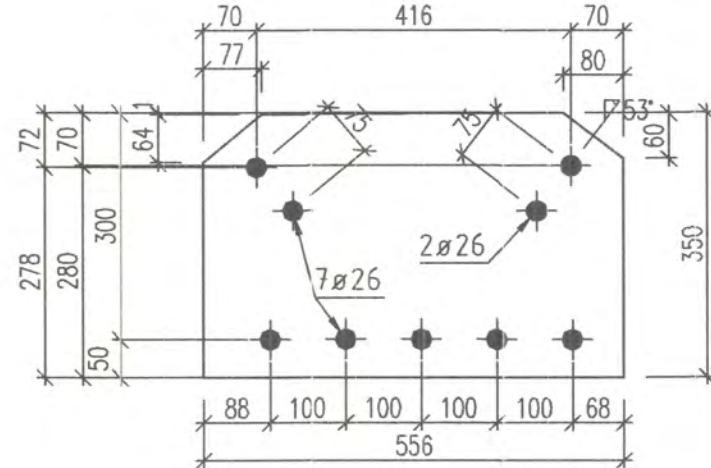
8x **129** PL 15x290x1935  
S355 - 1:10



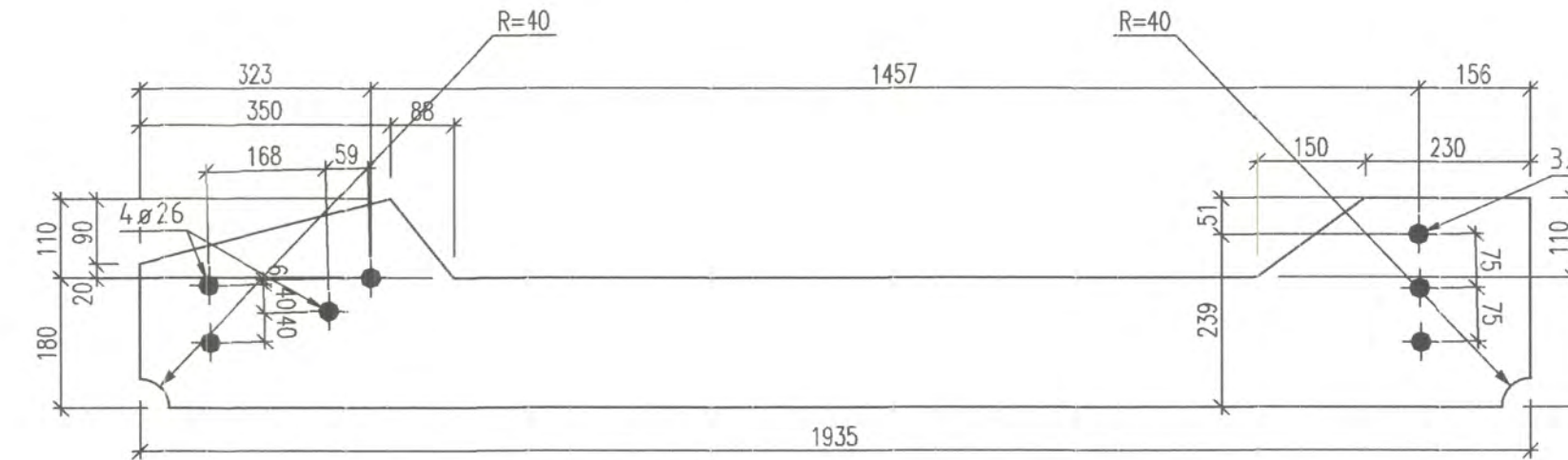
7x **133** PL 15x290x1935  
S355 - 1:10



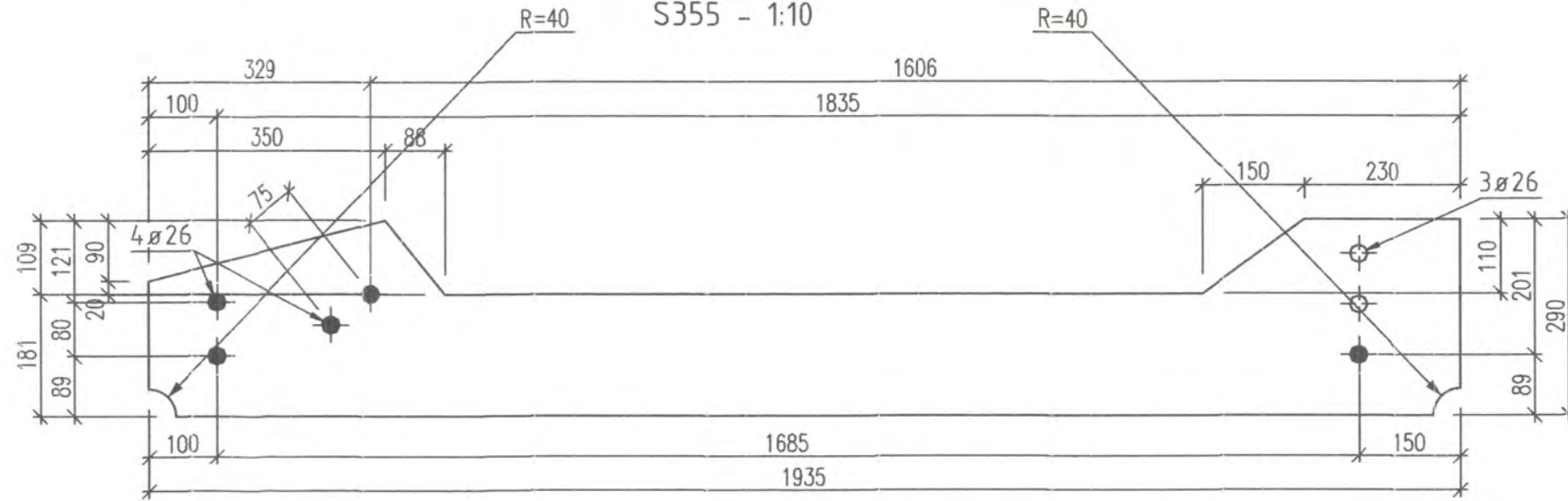
1x **351** PL 15x349.9x556.08  
S355 - 1:10



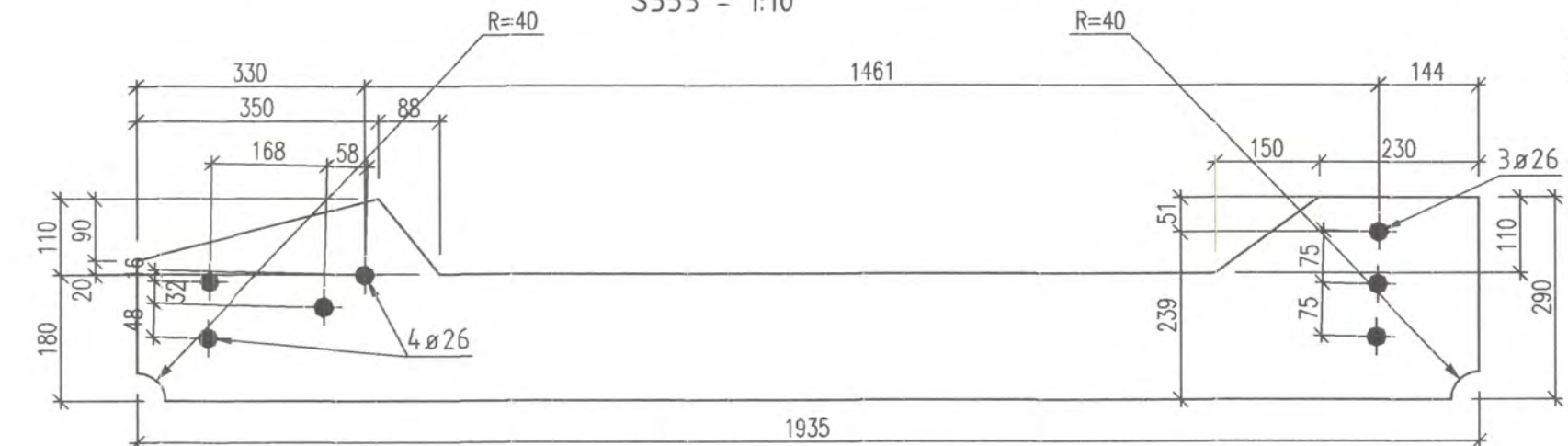
5x **151** PL 15x290x1935  
S355 - 1:10



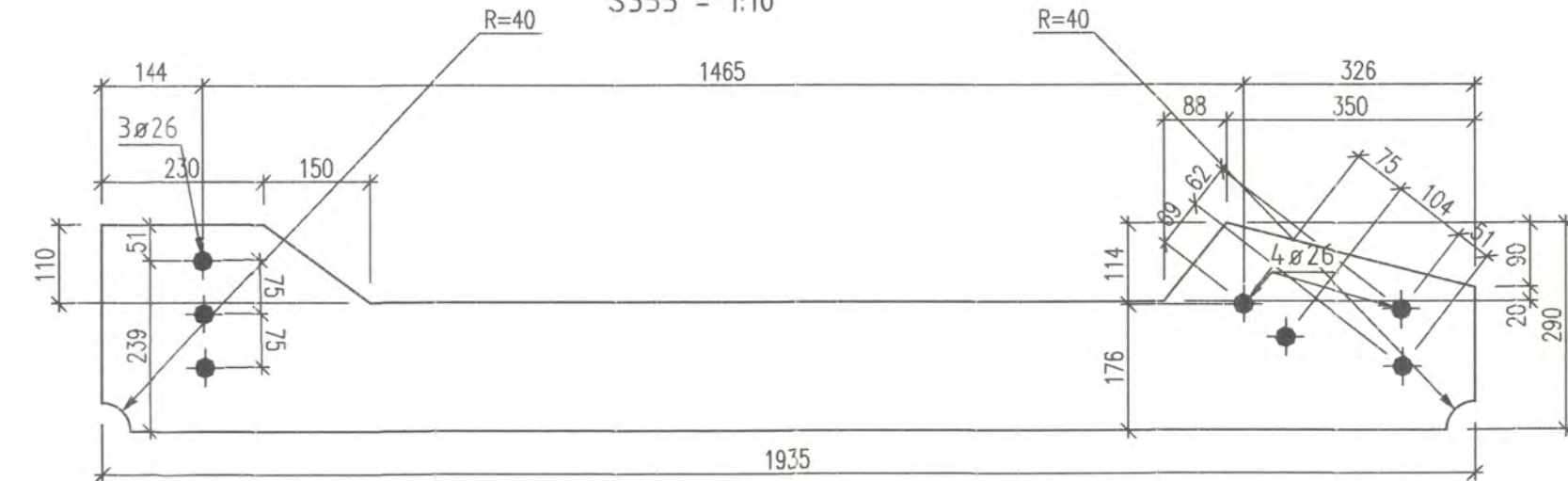
1x **319** PL 15x290x1935  
S355 - 1:10



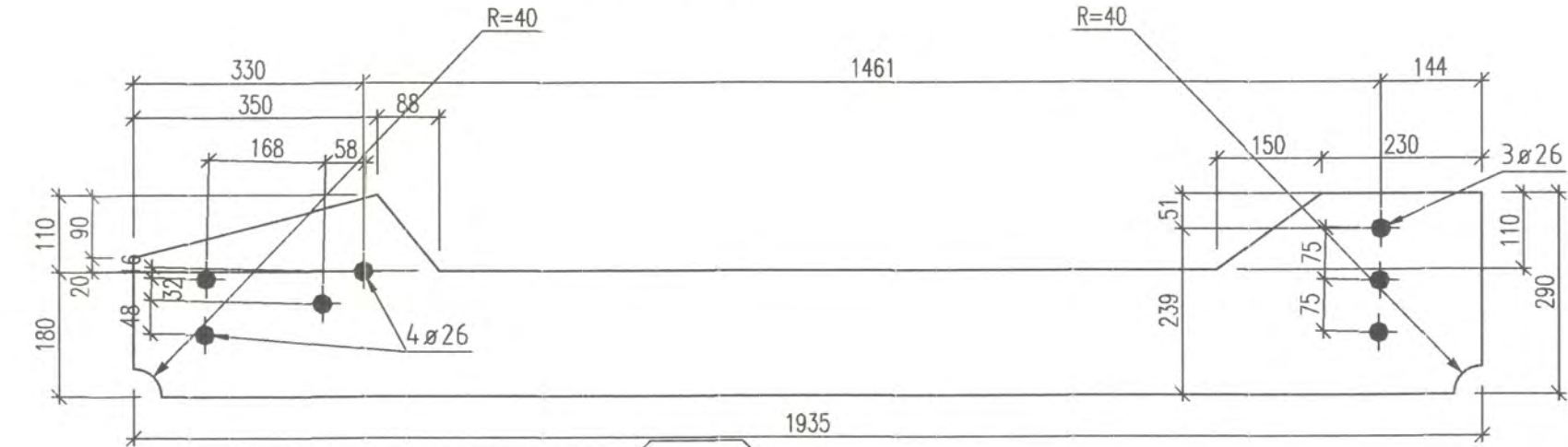
2x **226** PL 15x290x1935  
S355 - 1:10



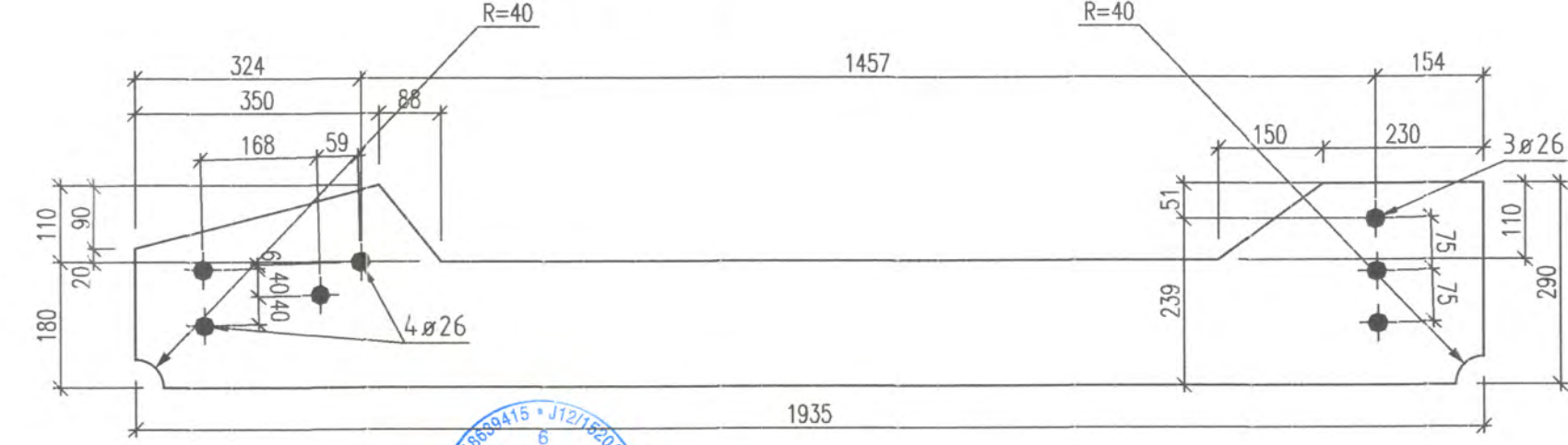
2x **227** PL 15x290x1935  
S355 - 1:10



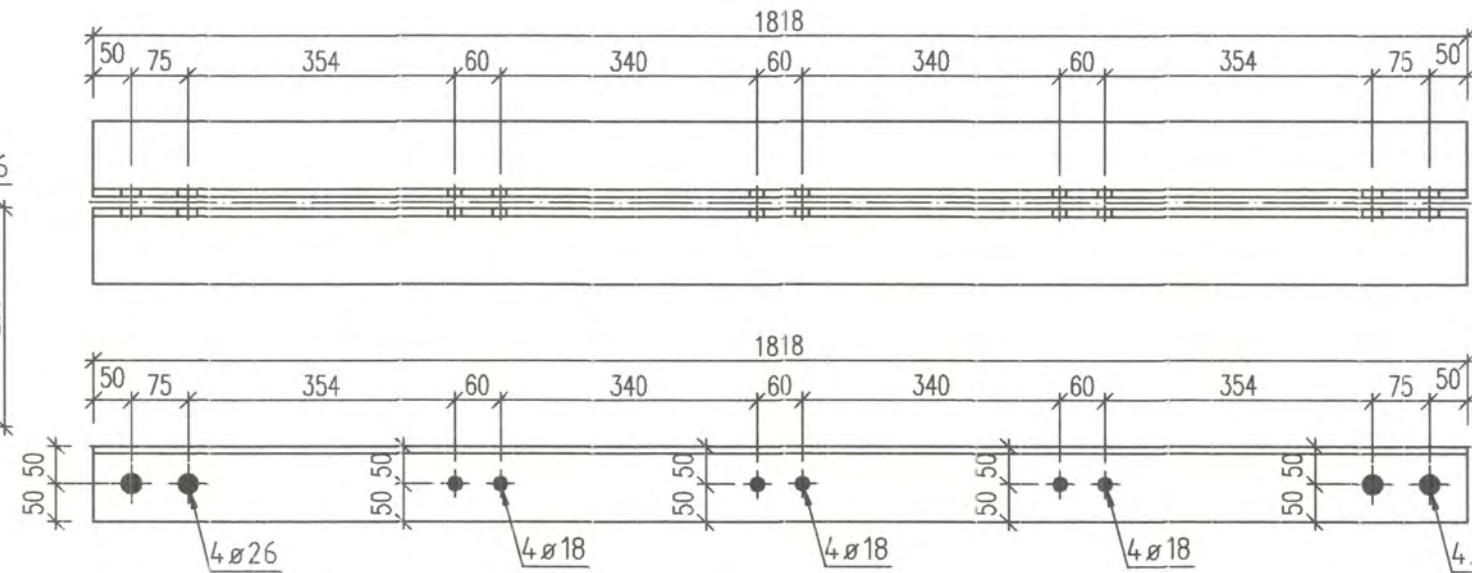
14x **112** PL 15x290x1935  
S355 - 1:10



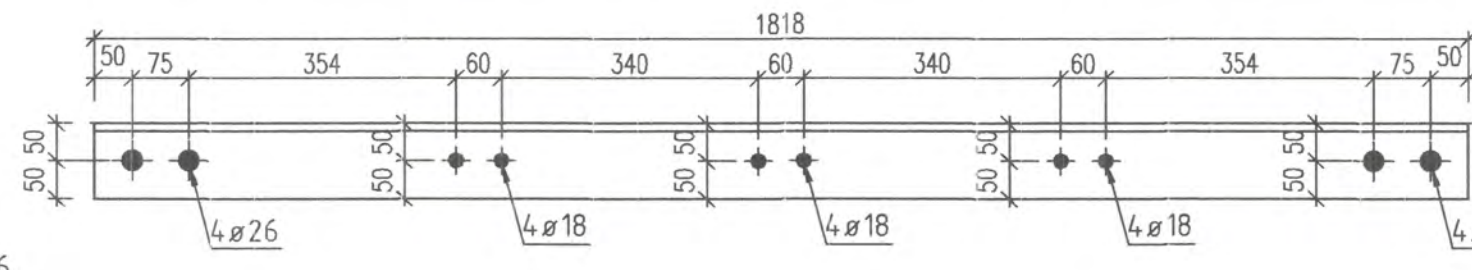
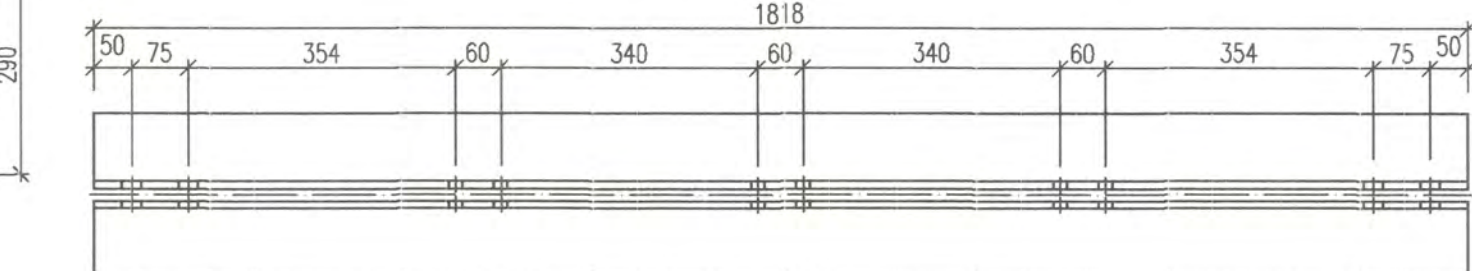
1x **318** PL 15x290x1935  
S355 - 1:10



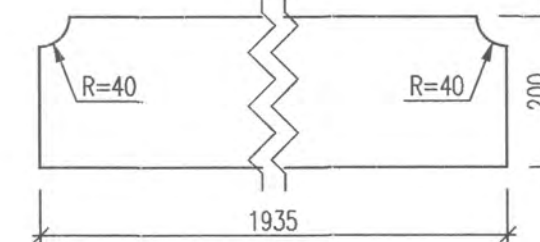
9x **17** - 1817.58  
S355 - 1:10



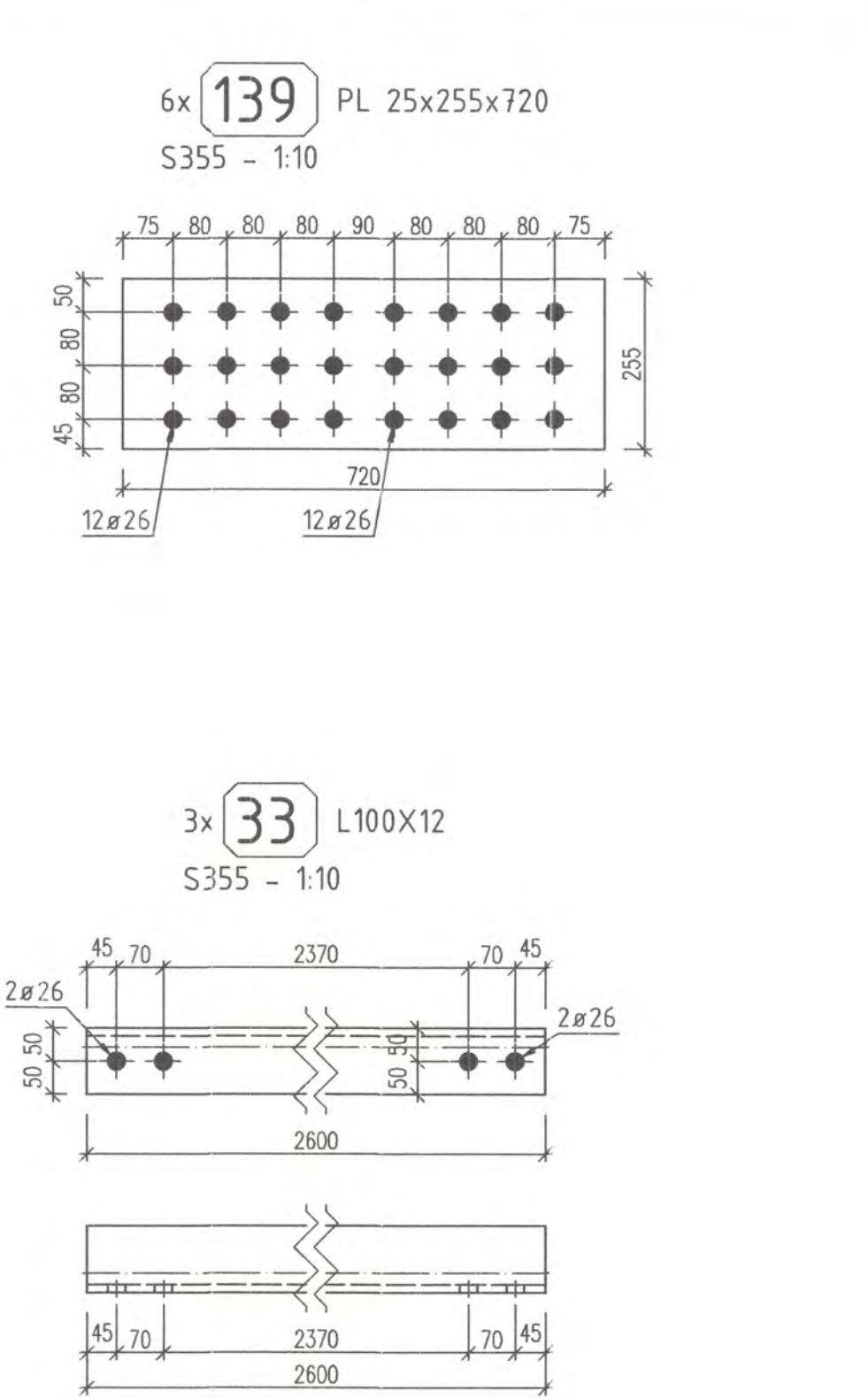
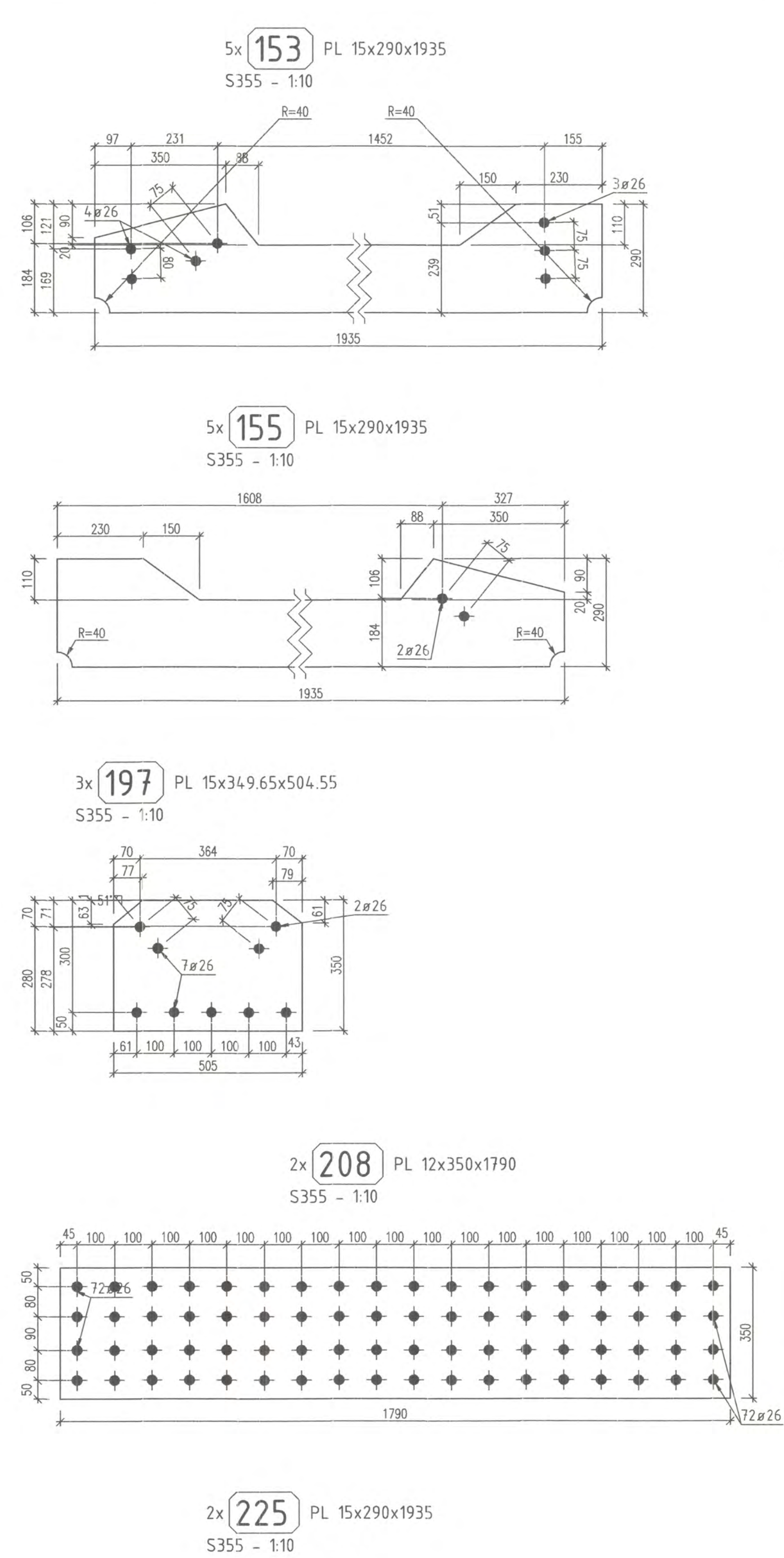
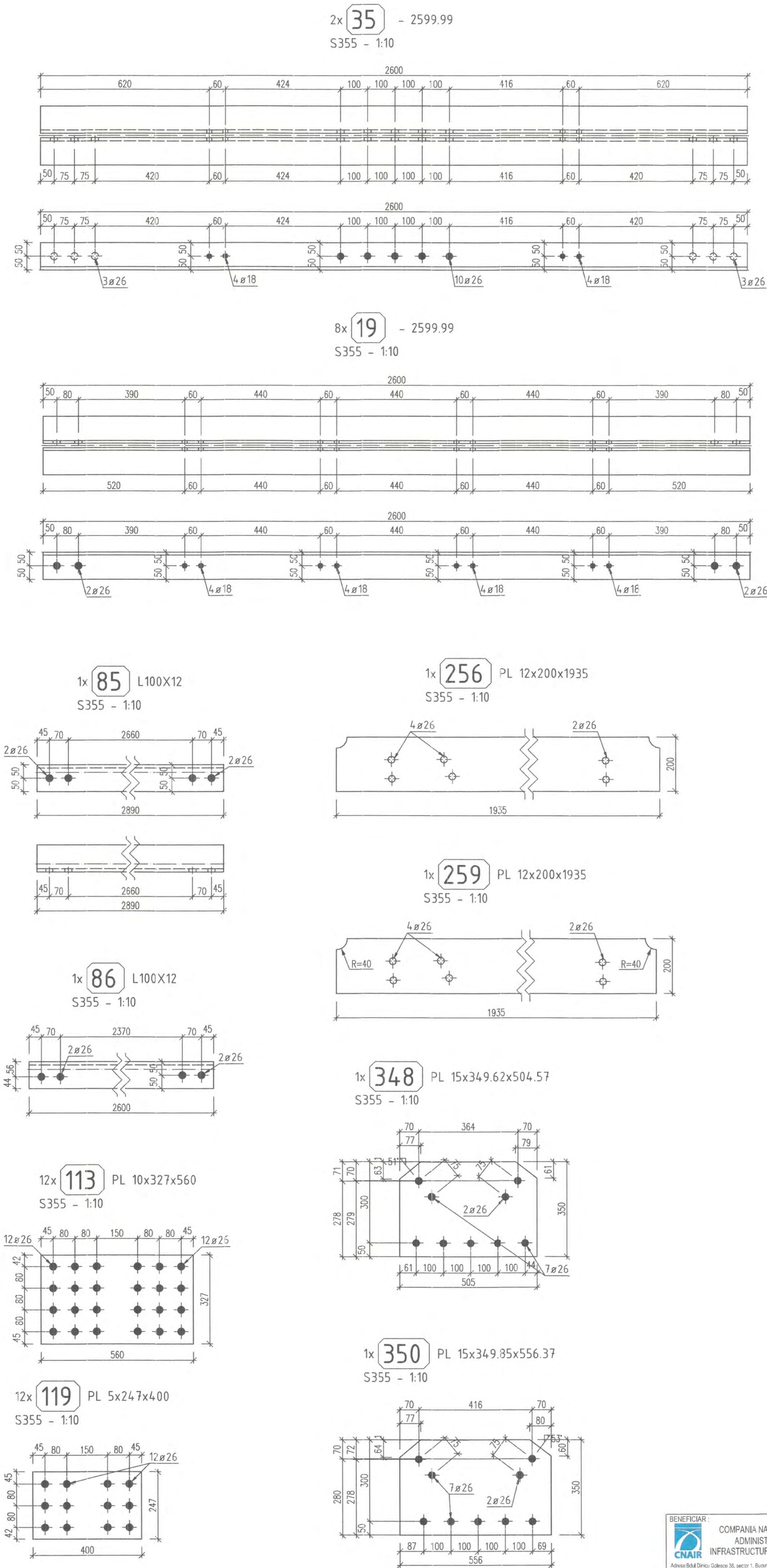
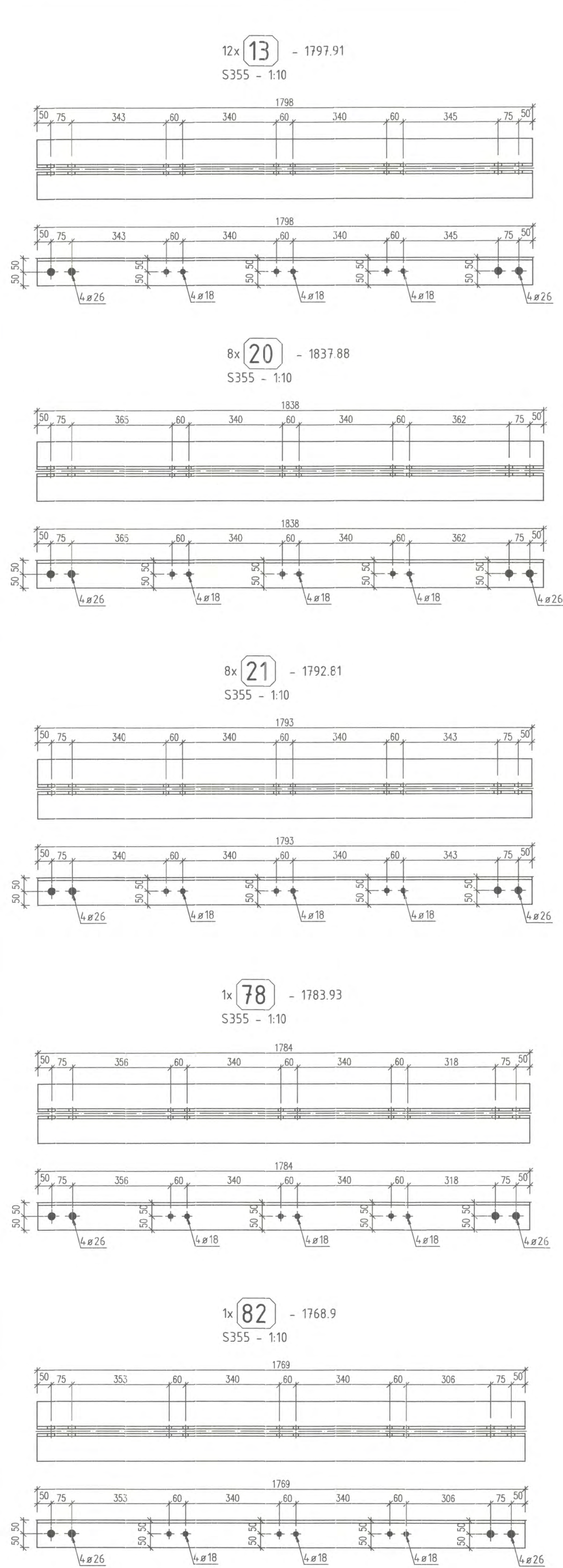
3x **31** - 1818.4  
S355 - 1:10



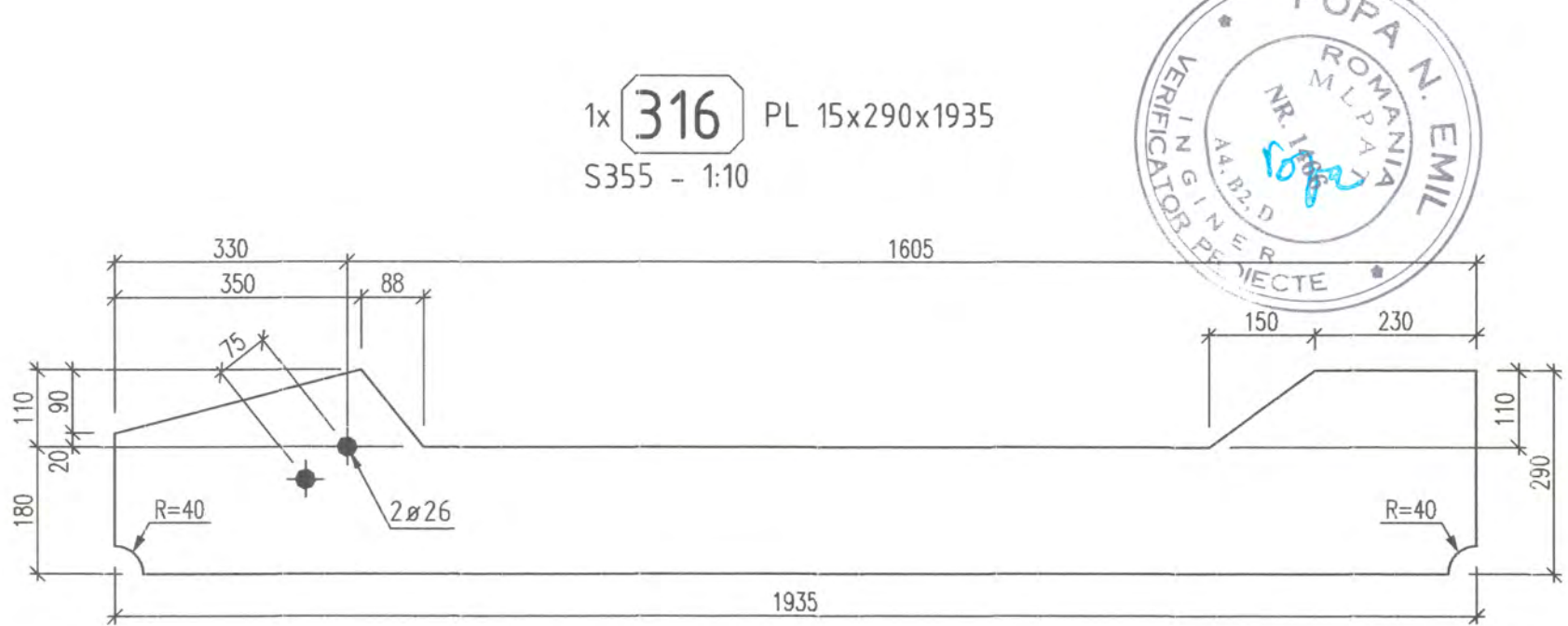
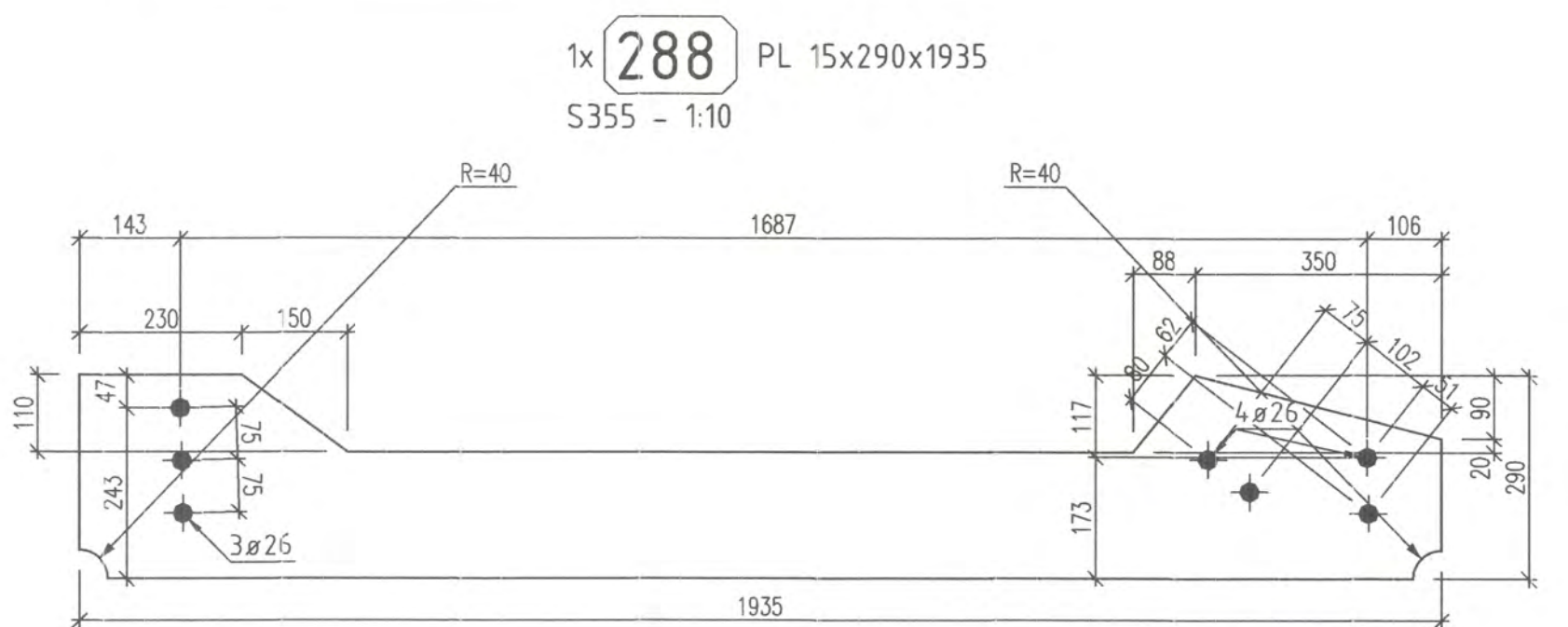
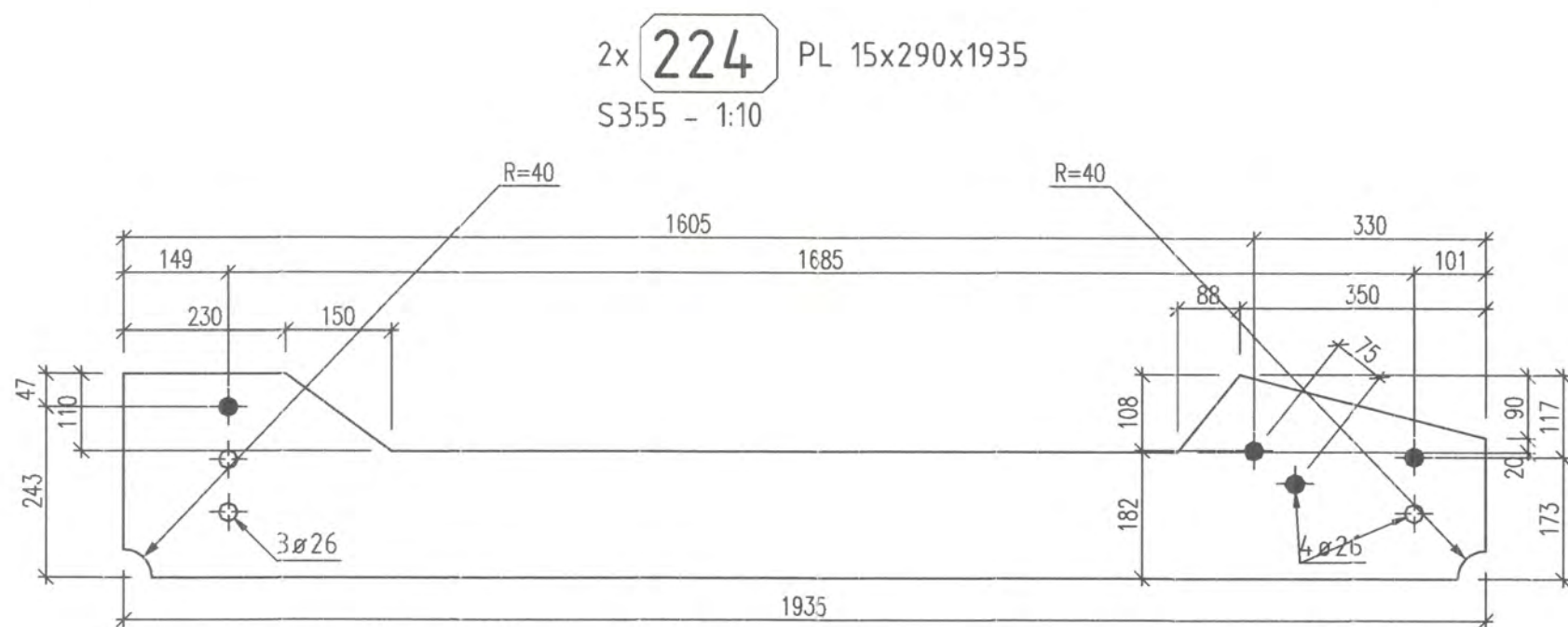
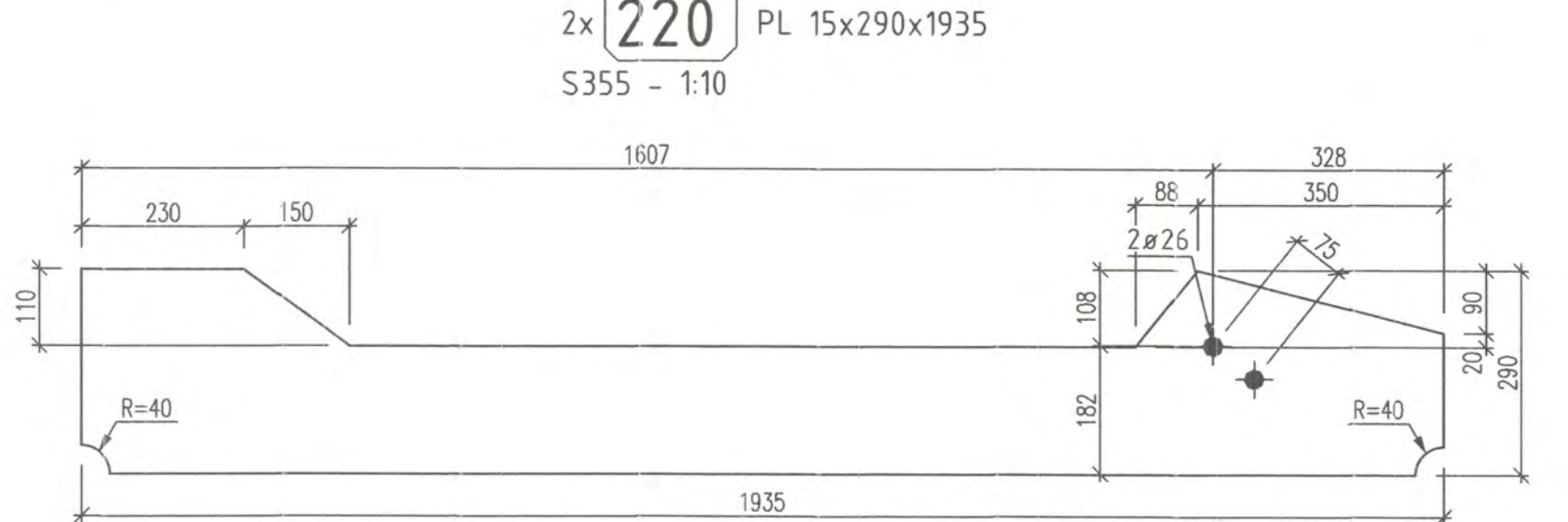
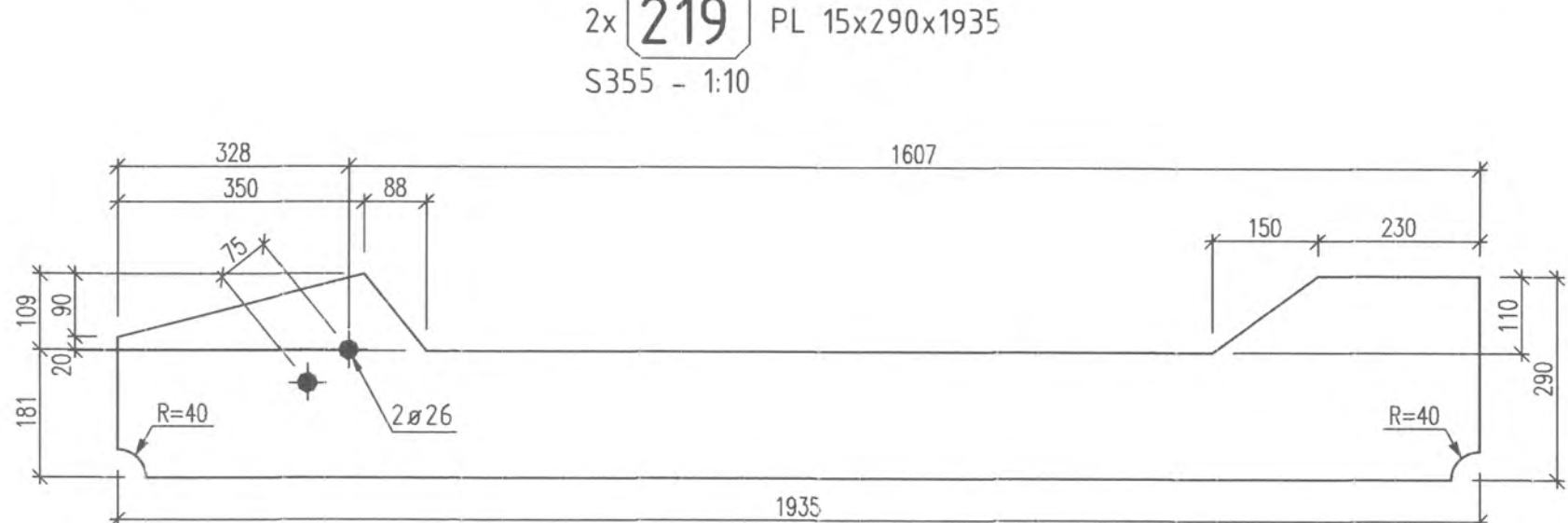
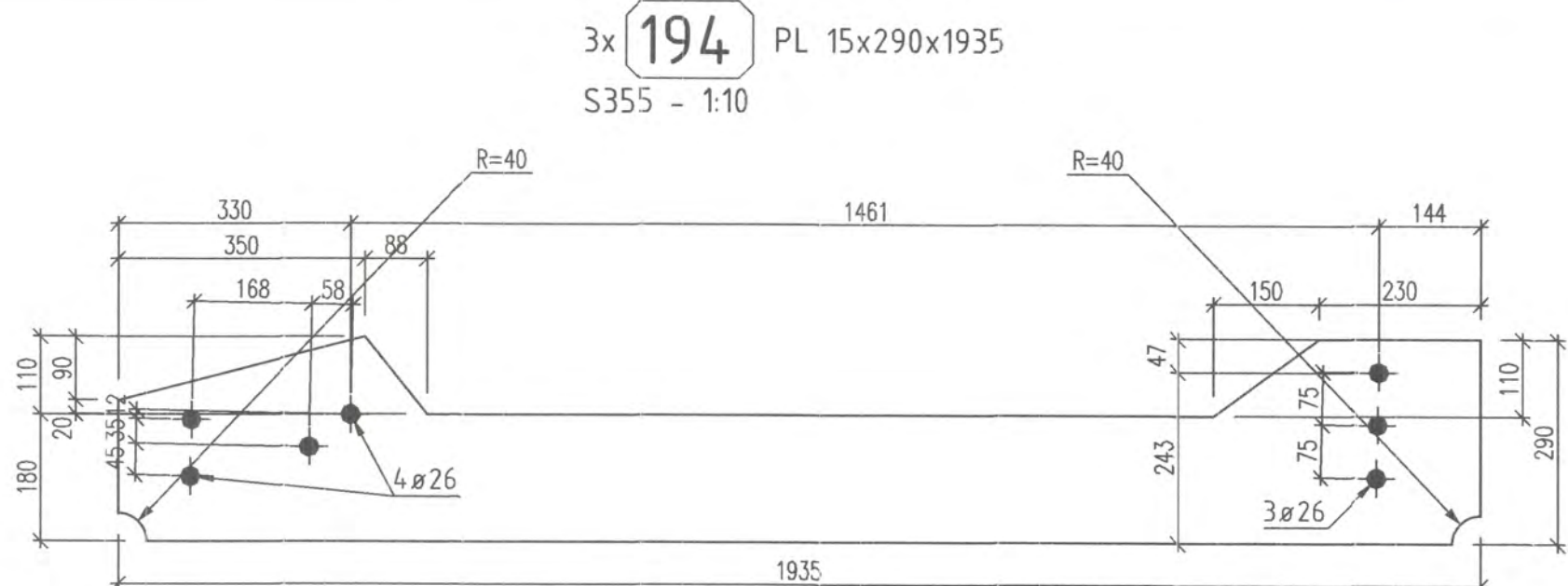
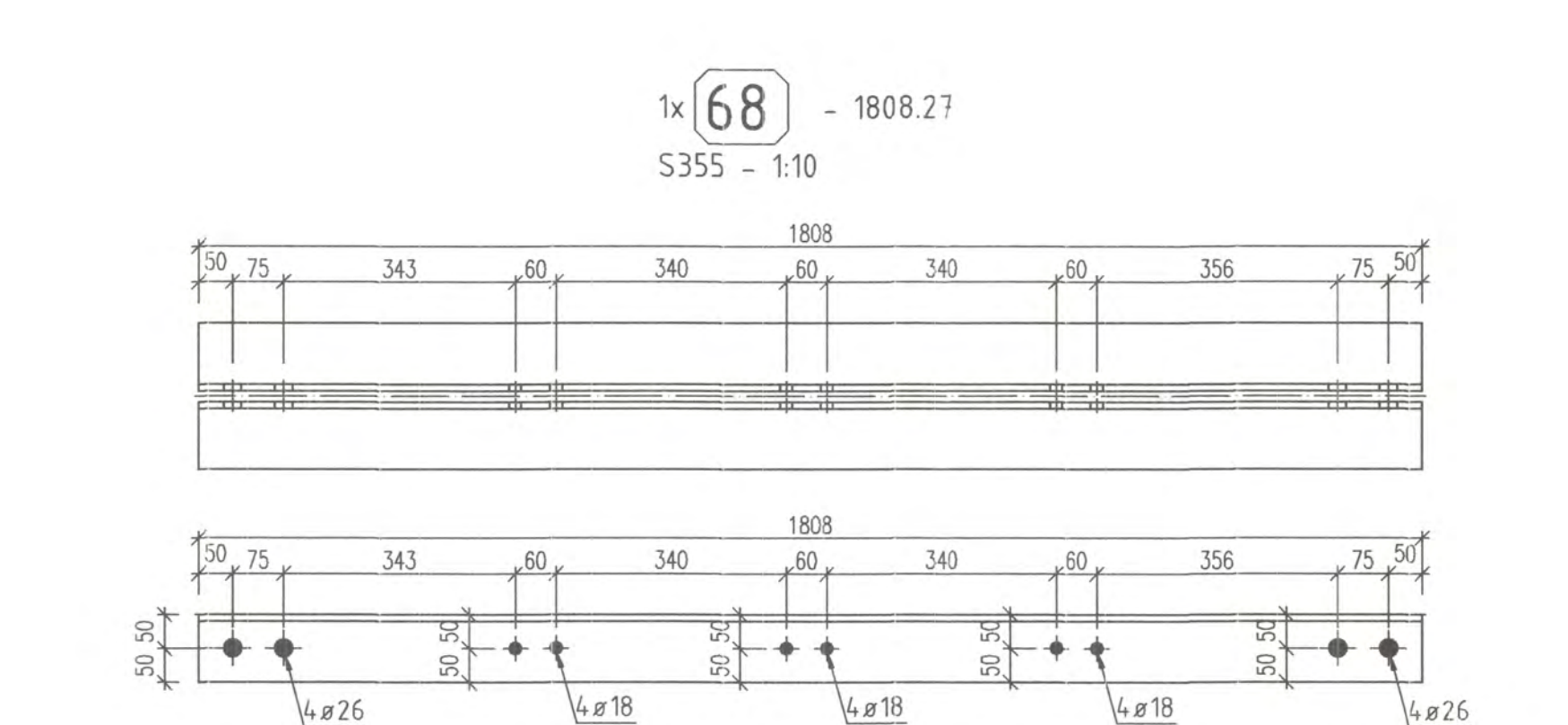
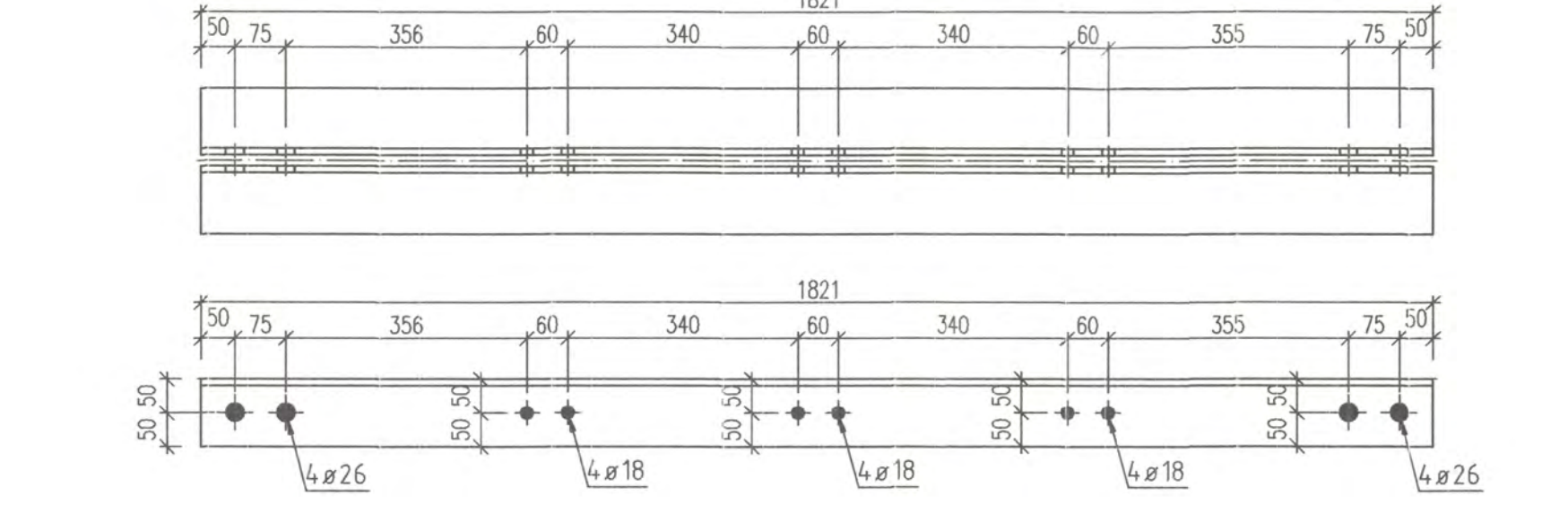
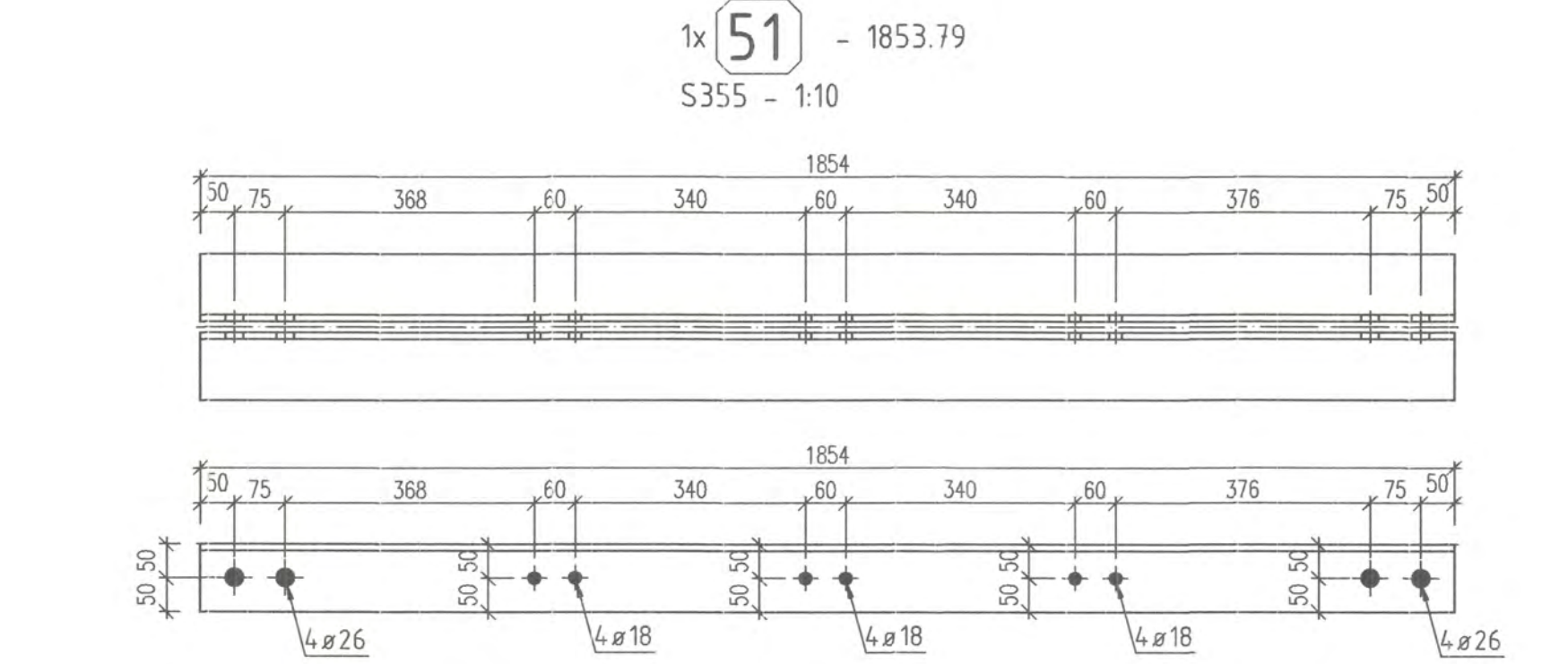
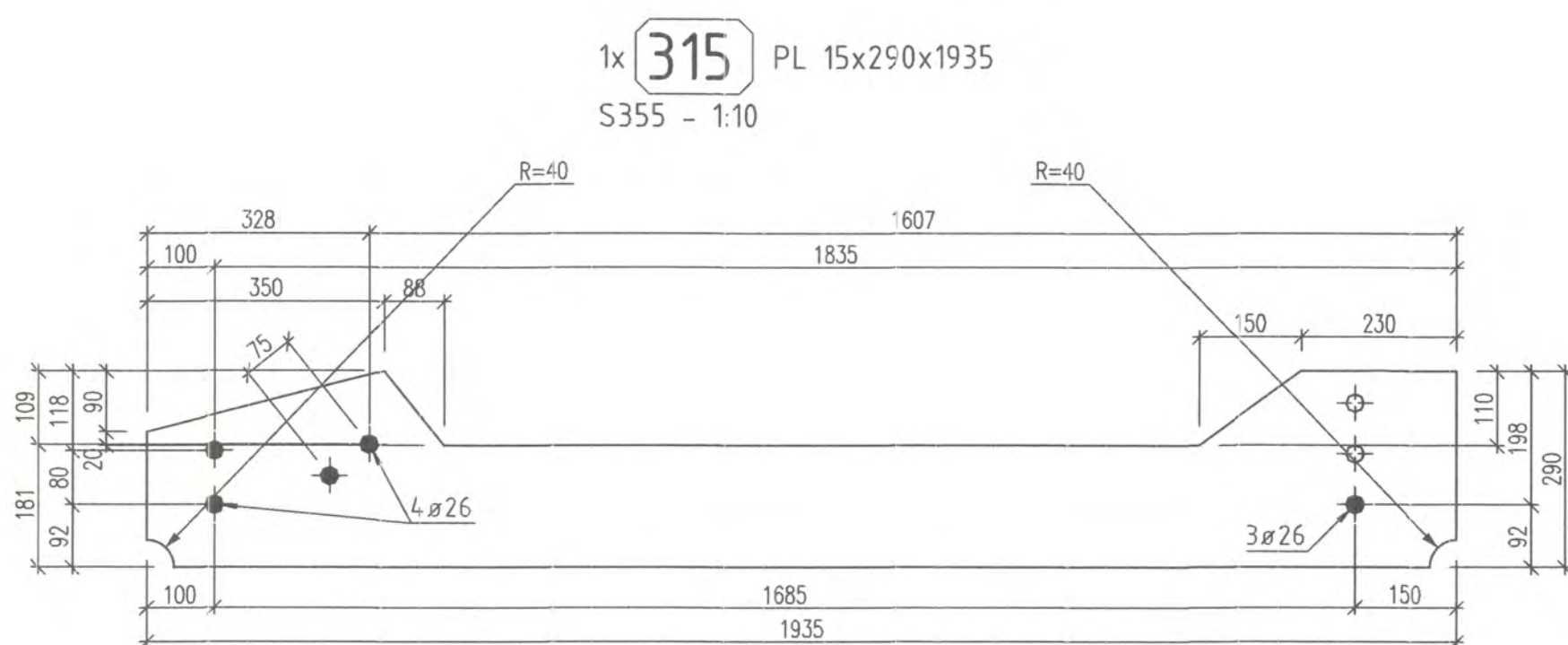
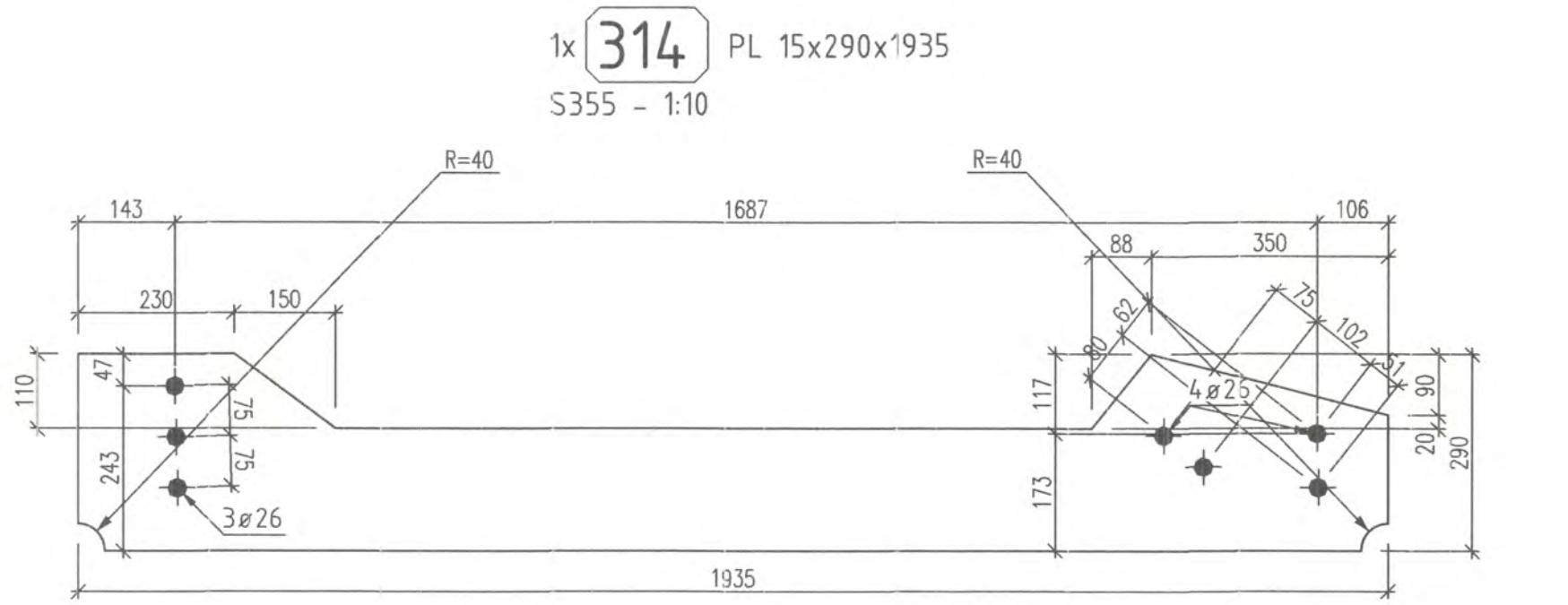
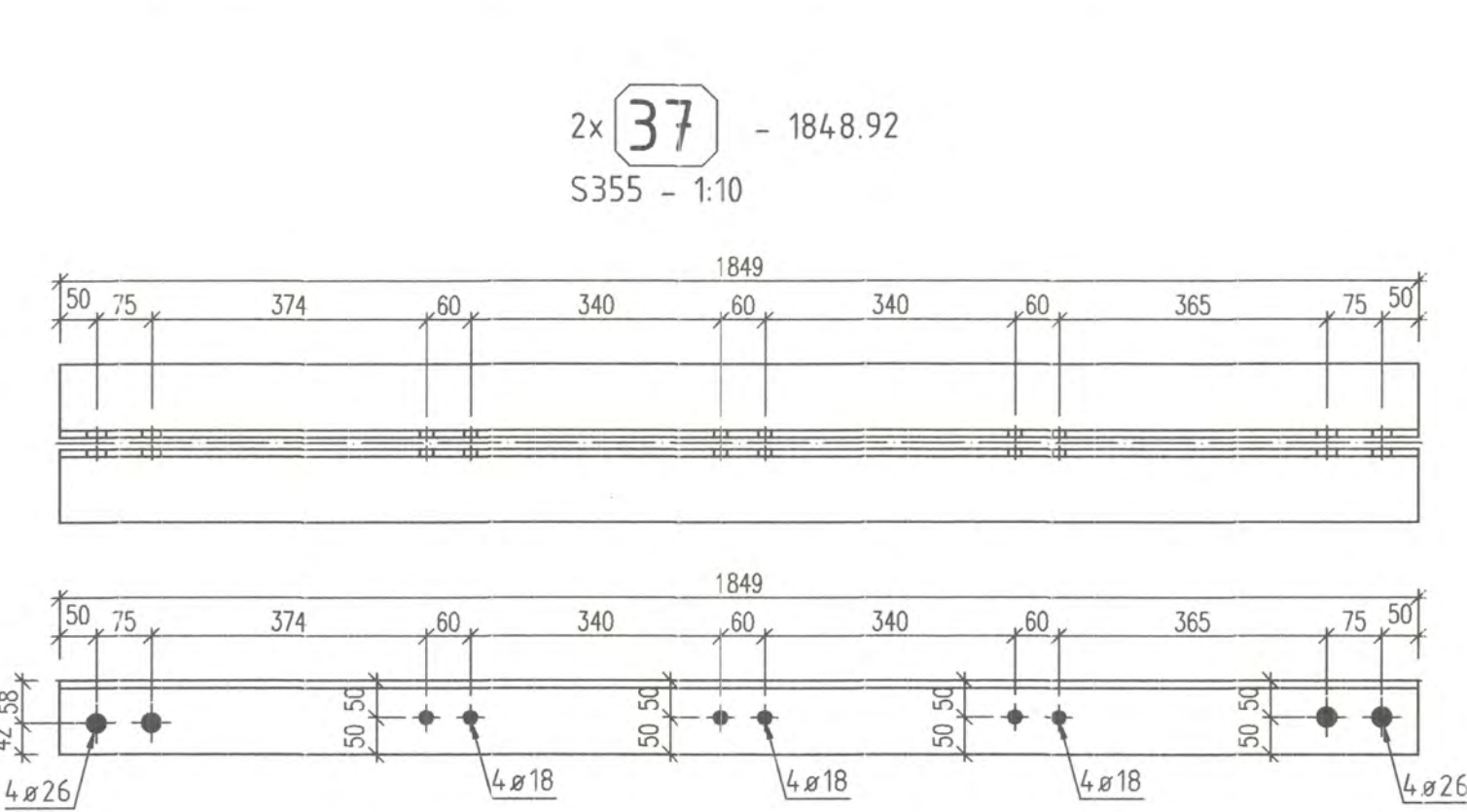
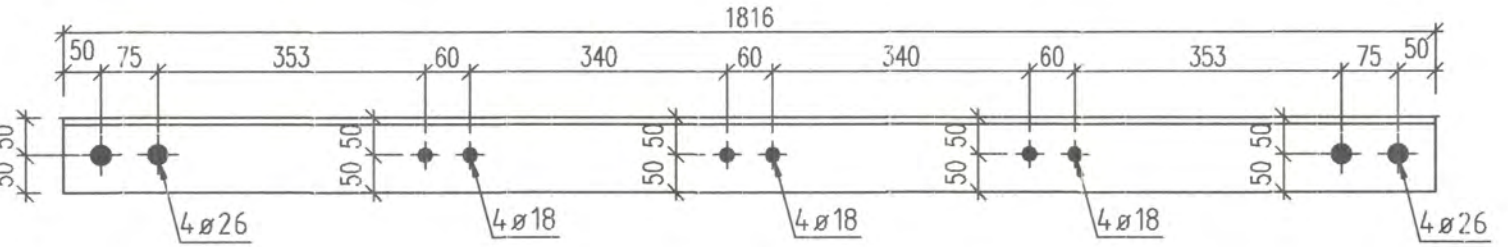
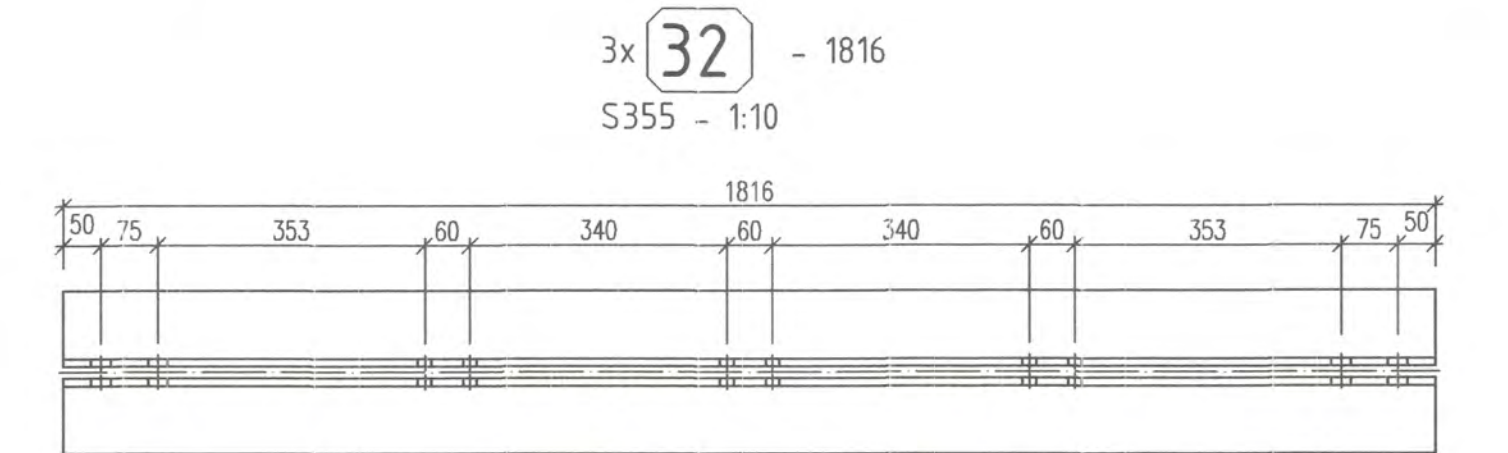
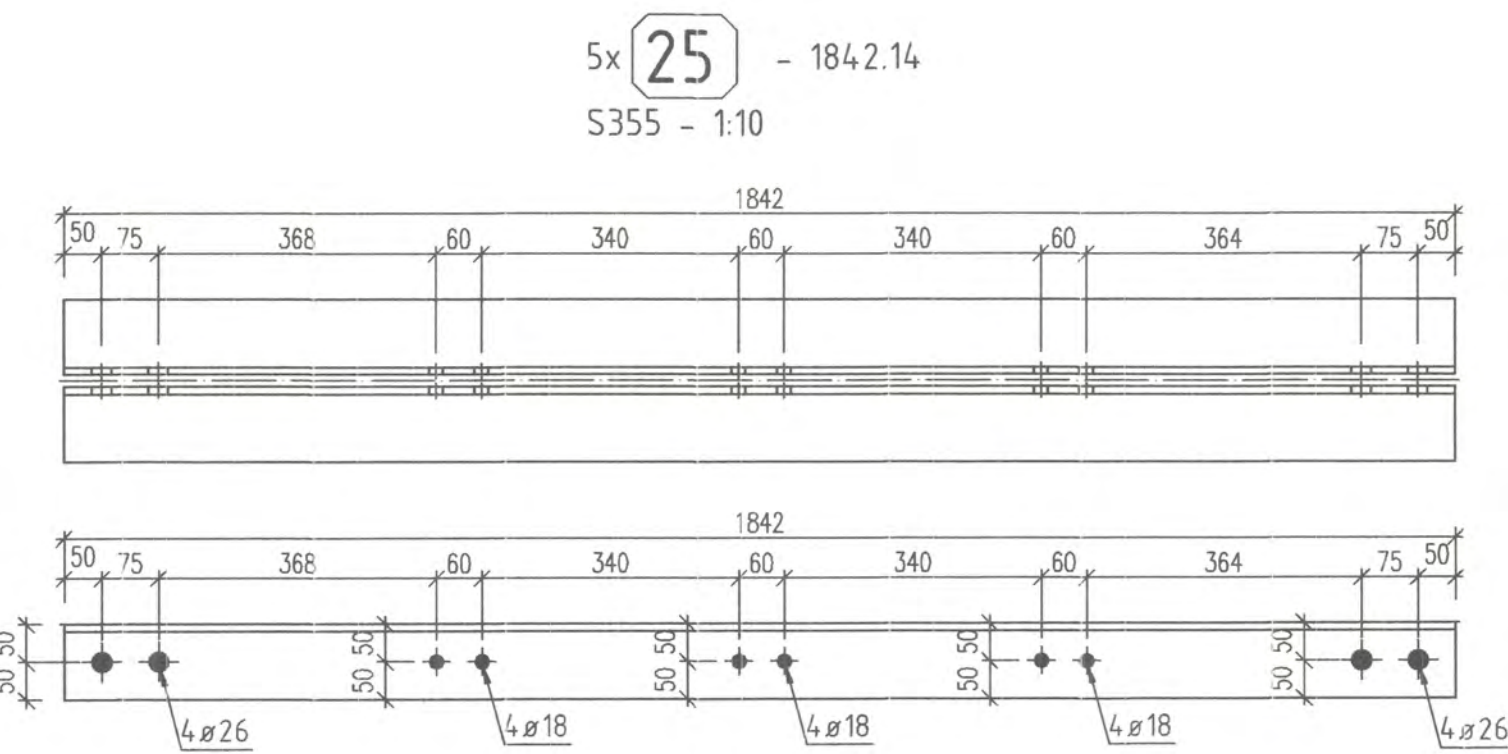
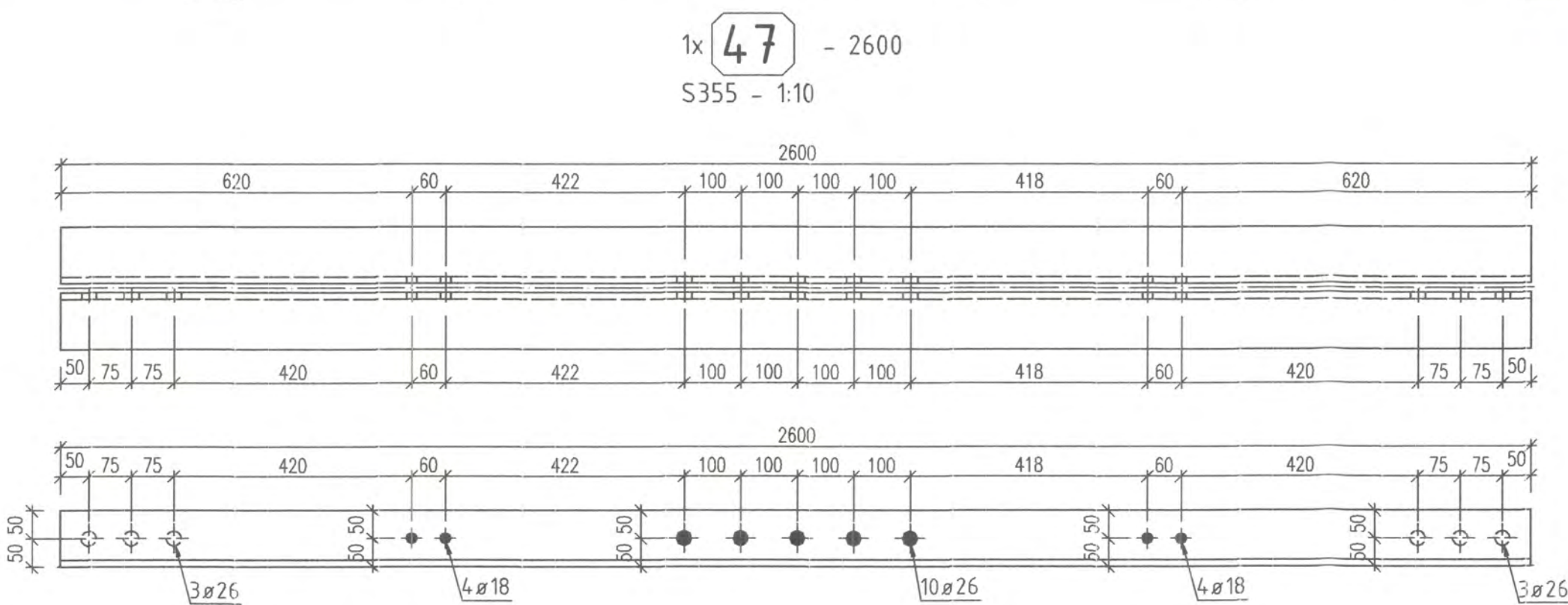
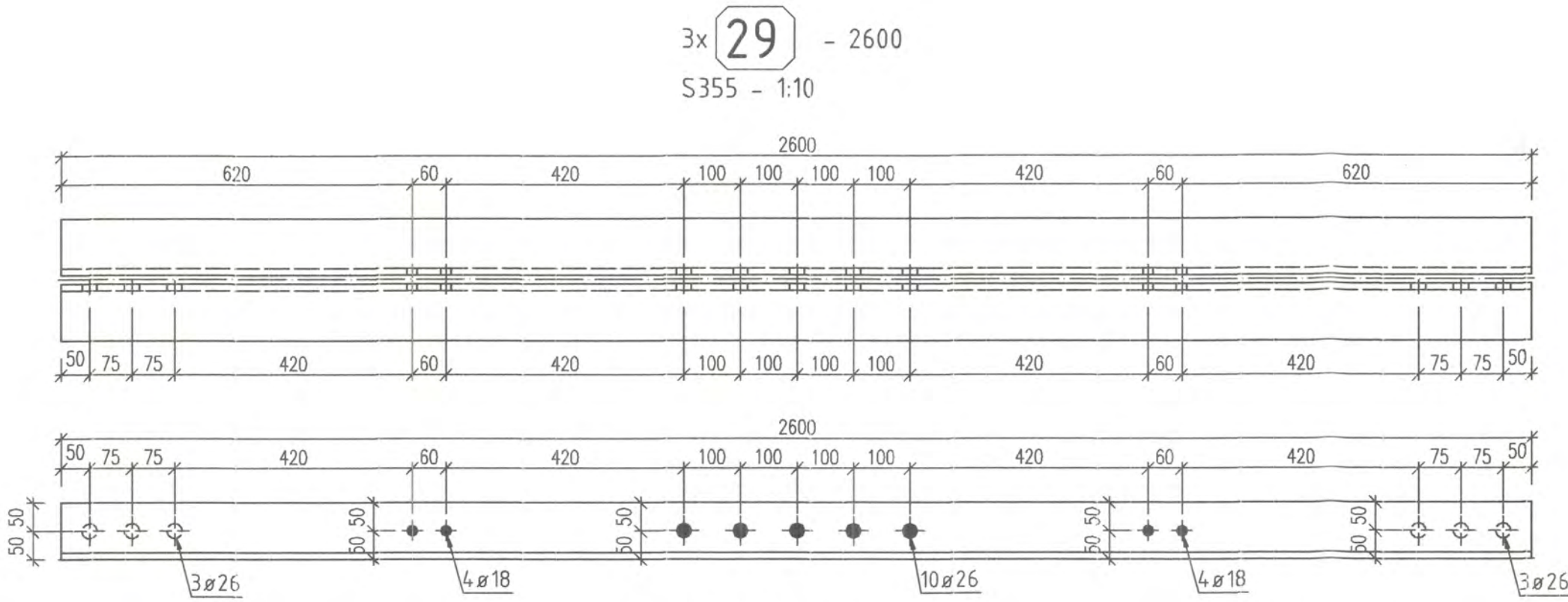
4x **176** PL 12x200x1935  
S355 - 1:10



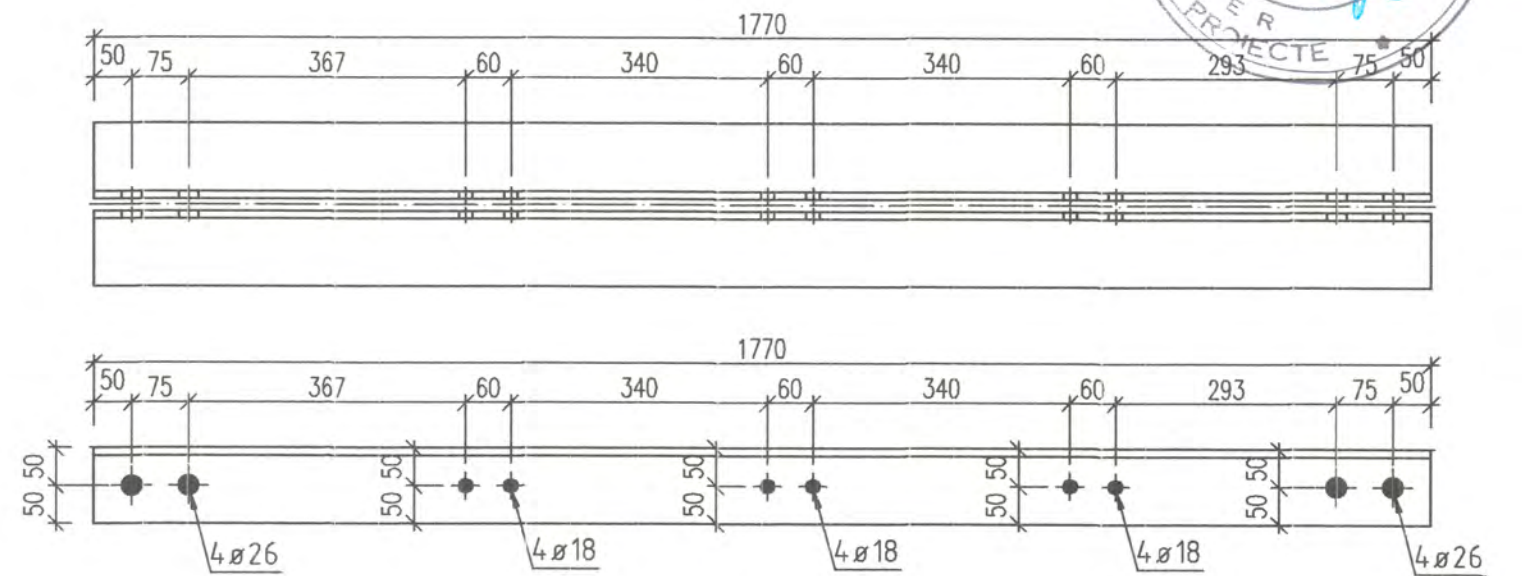
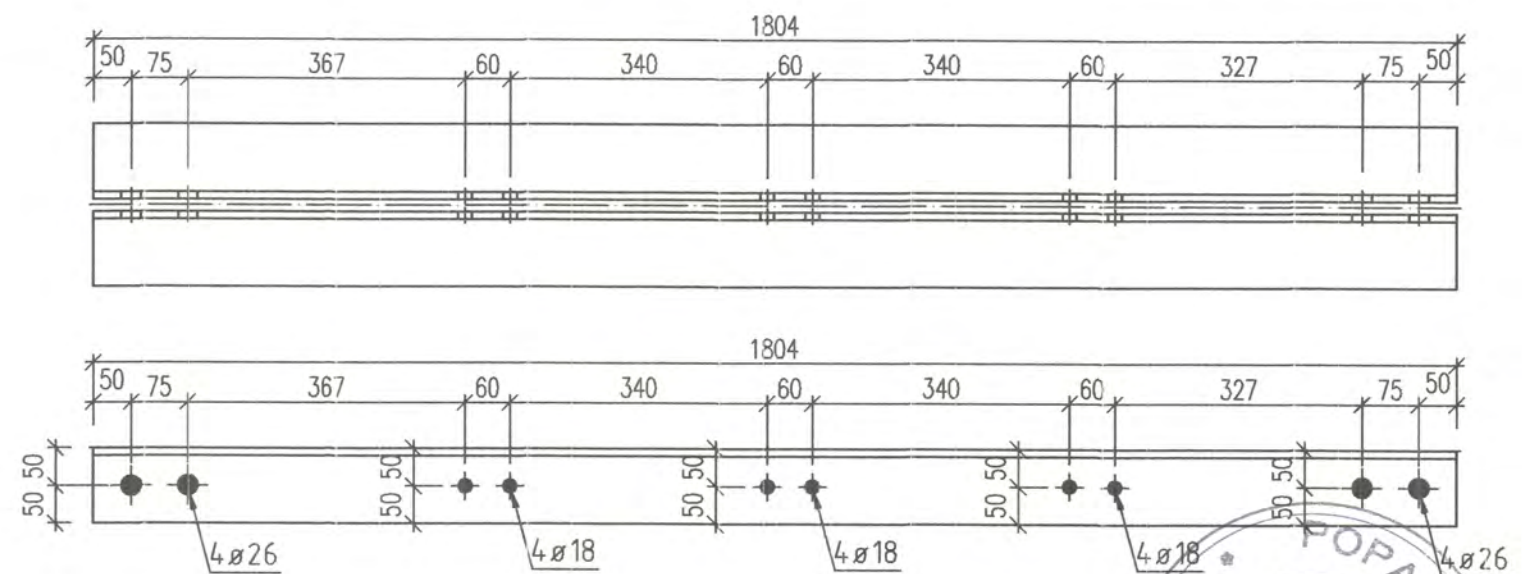
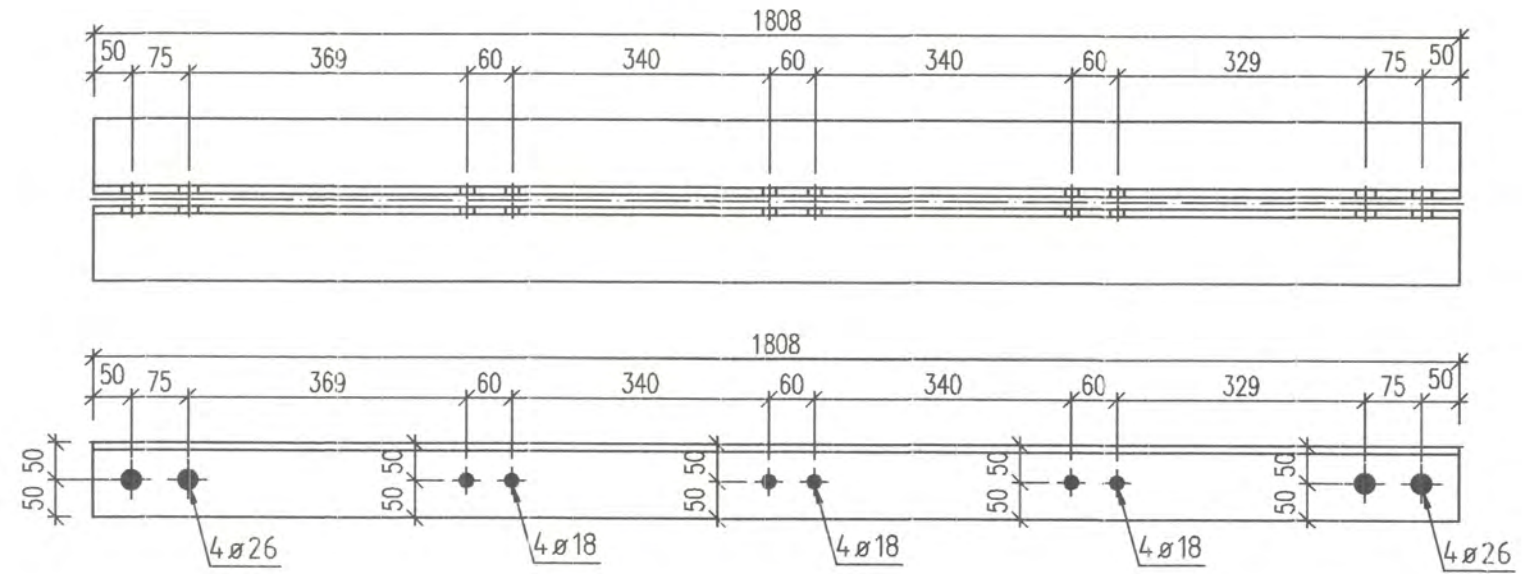
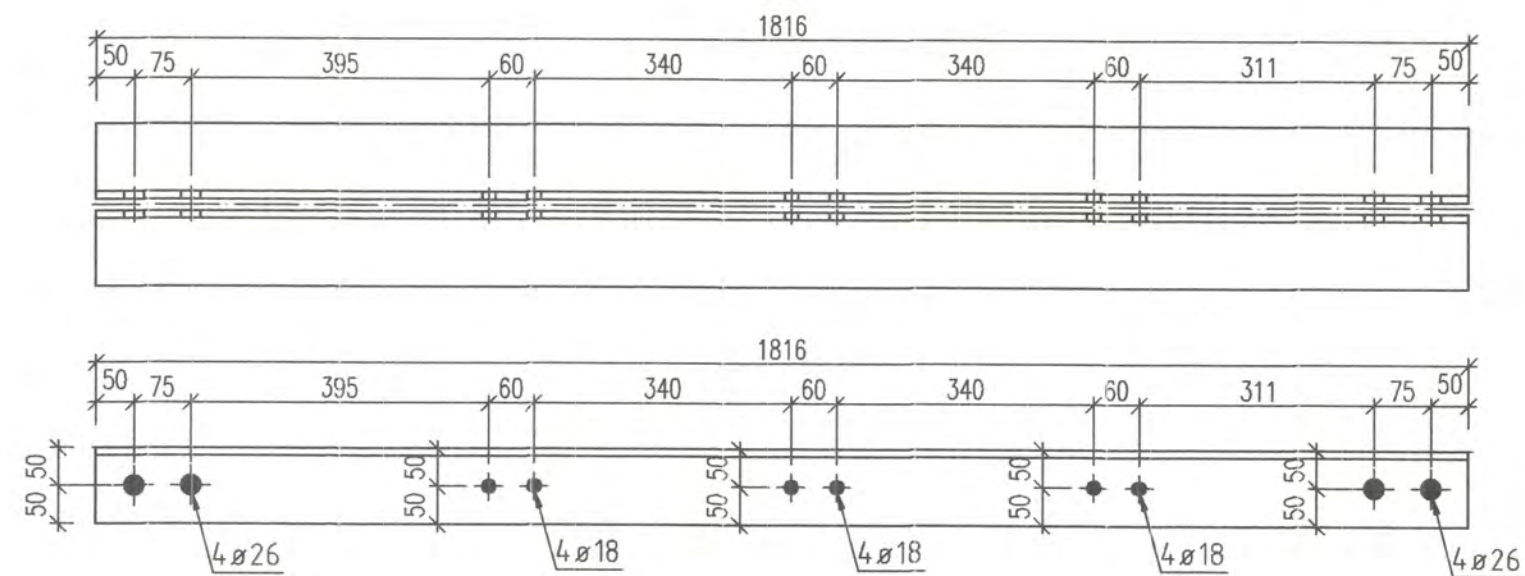
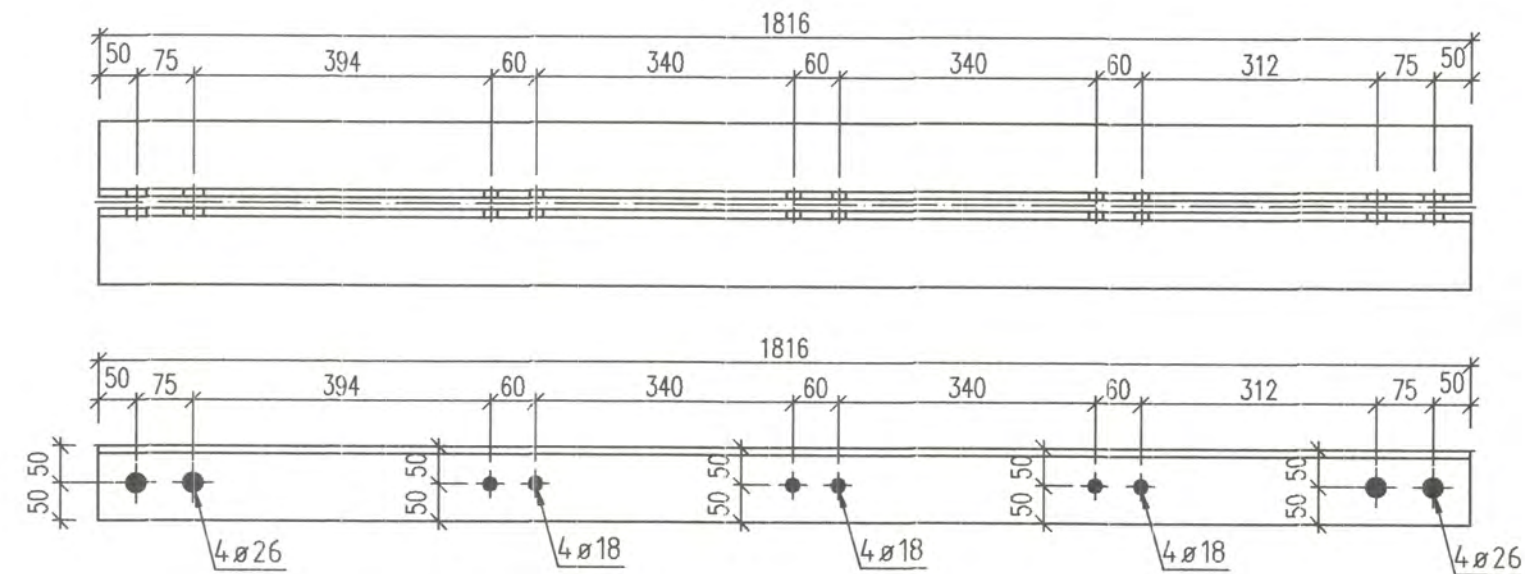
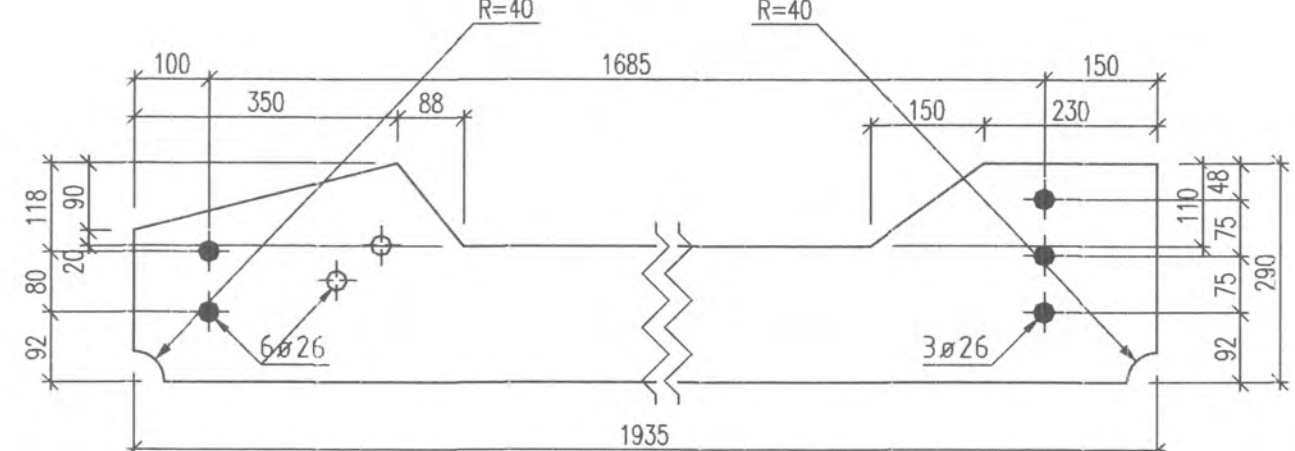
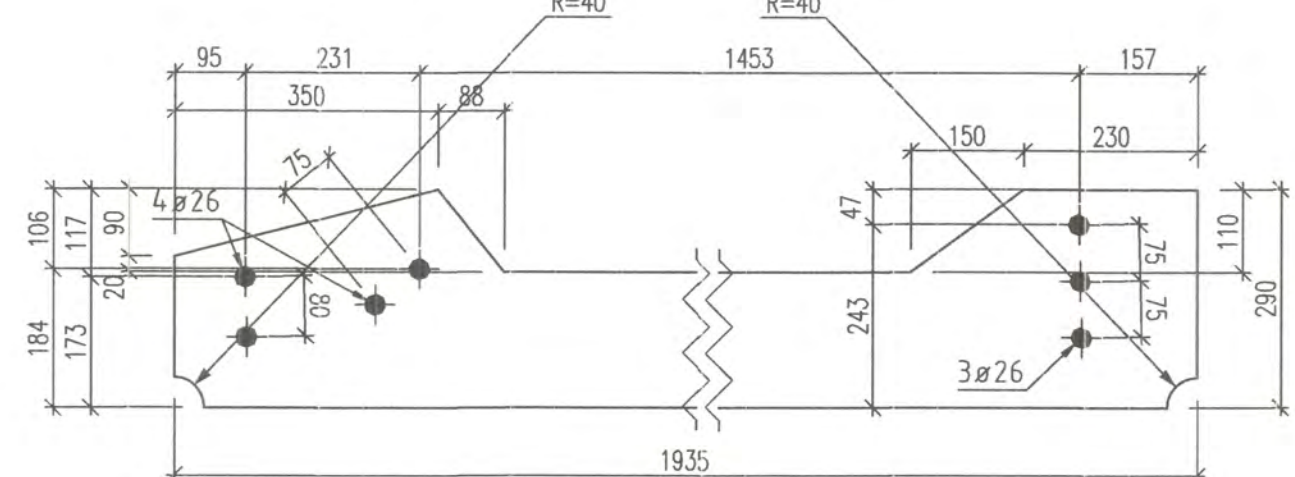
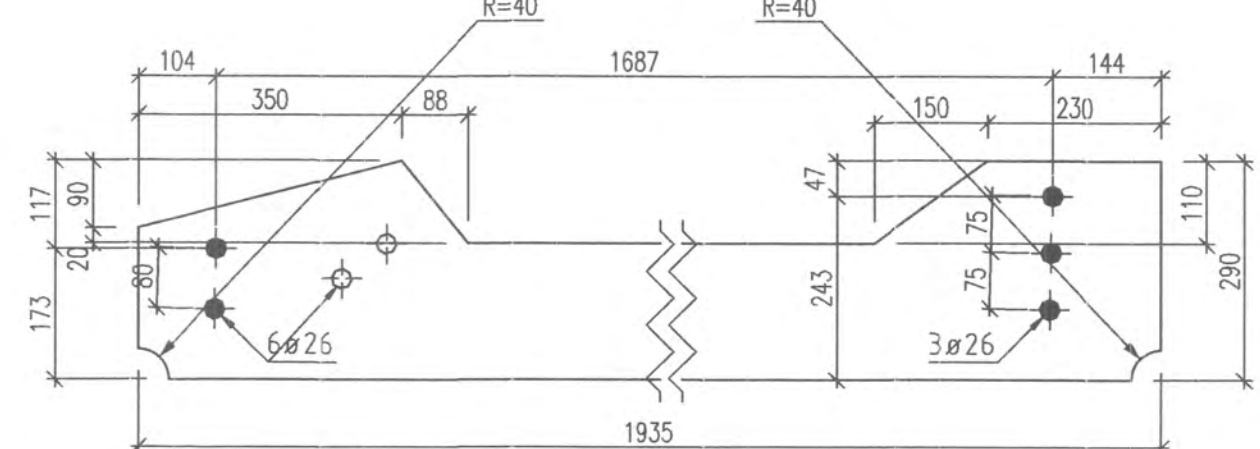
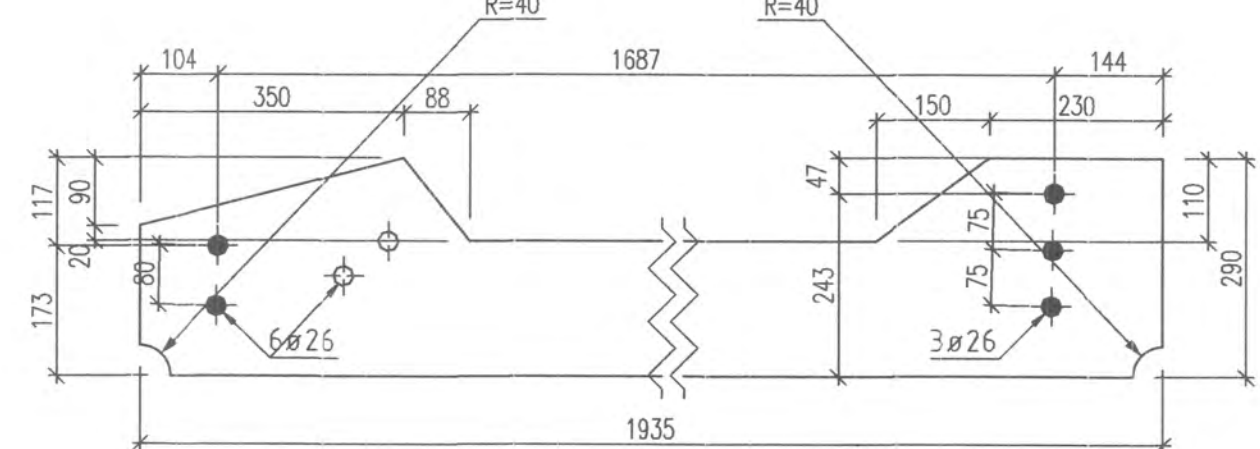
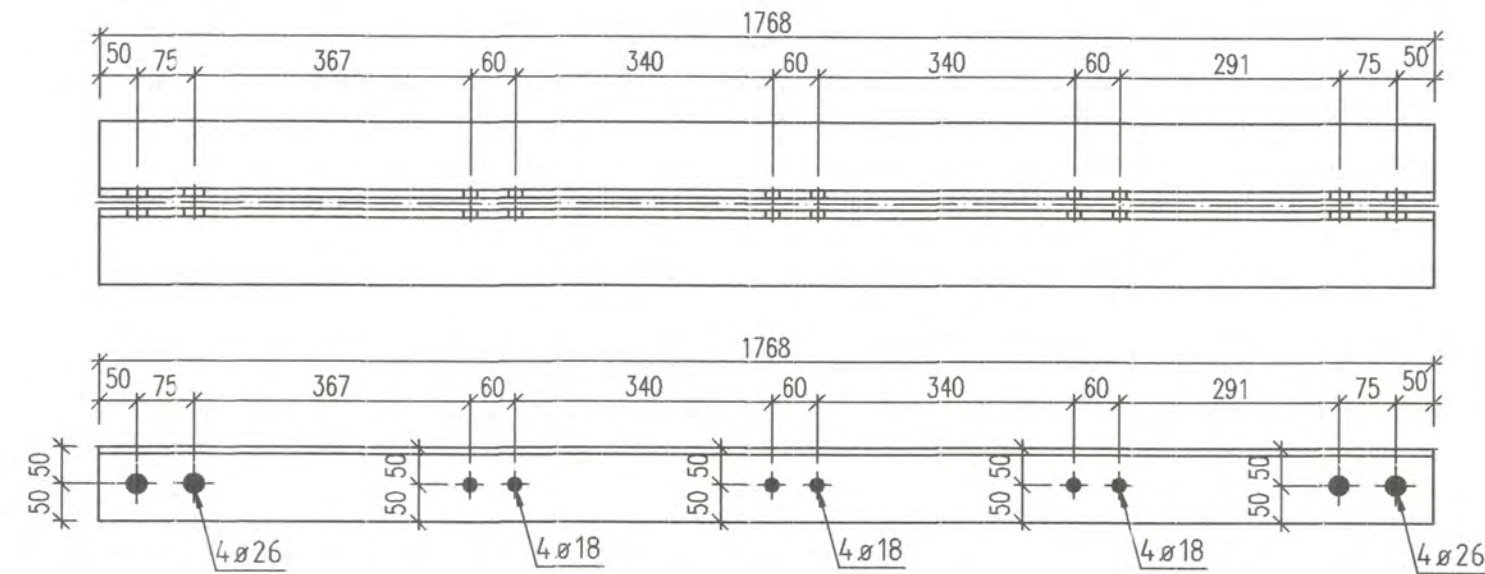
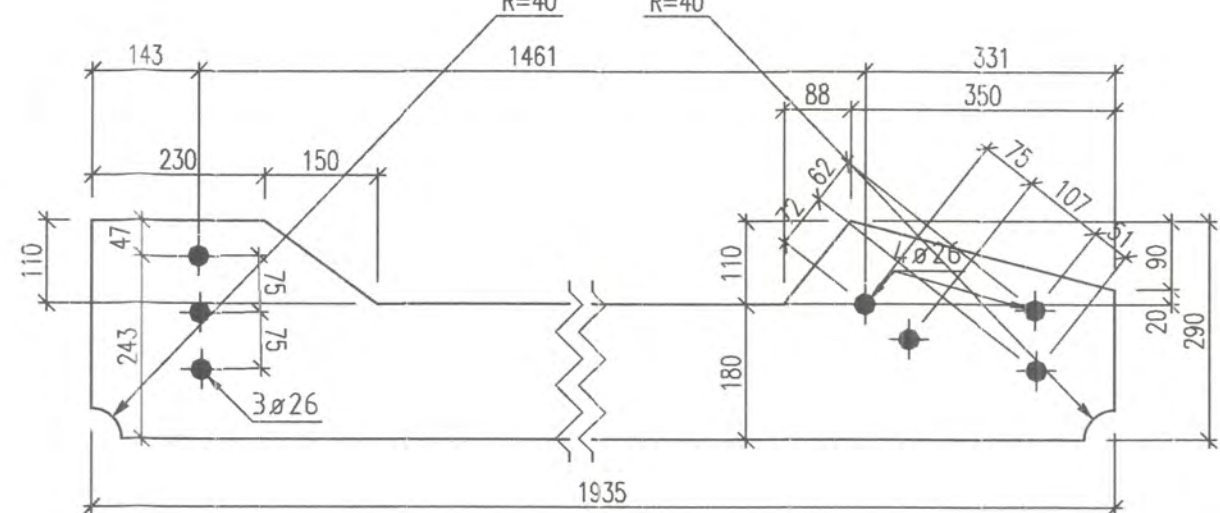
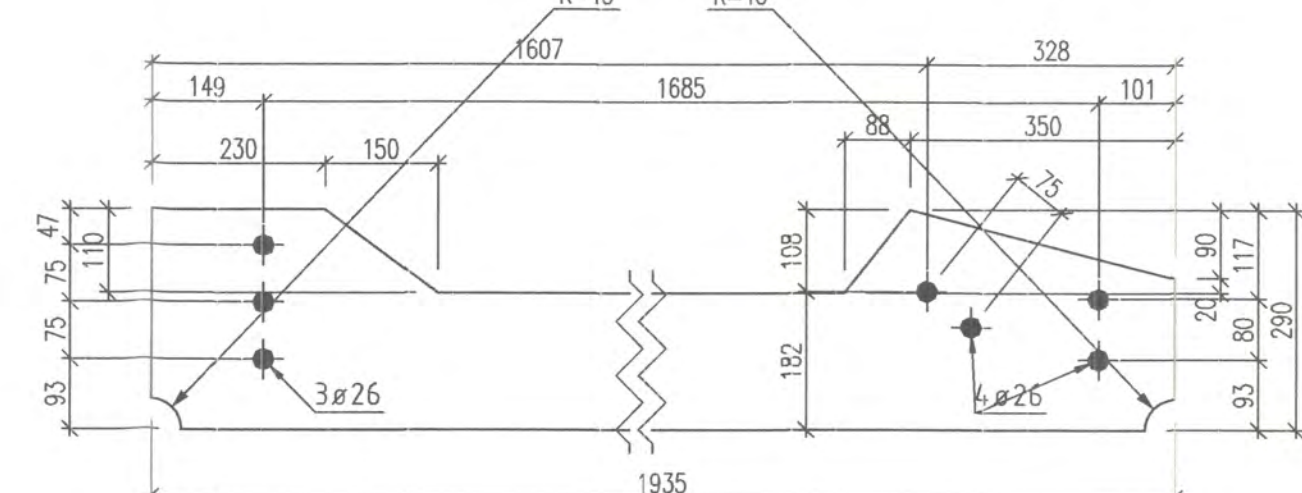
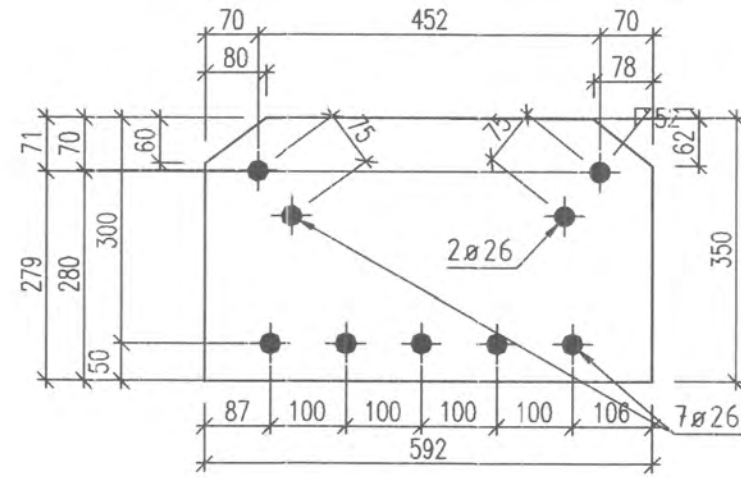
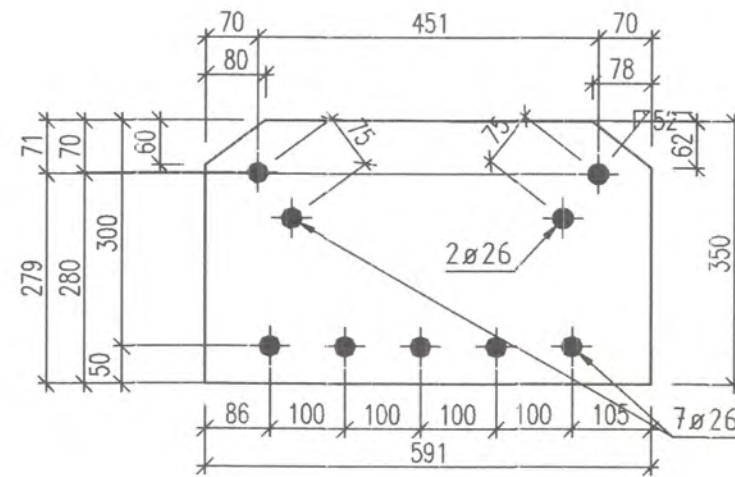
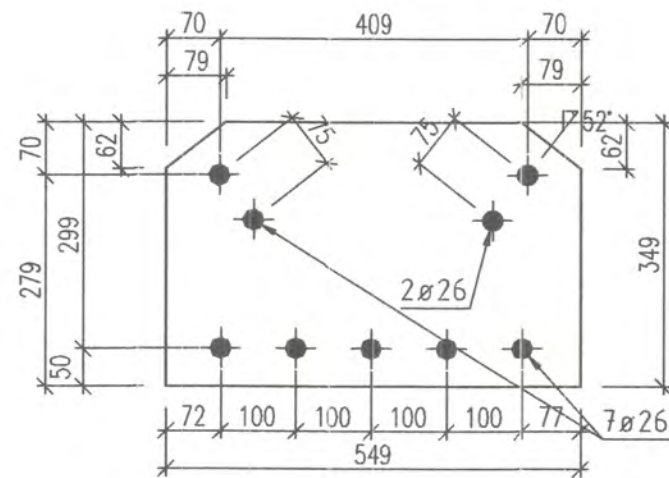
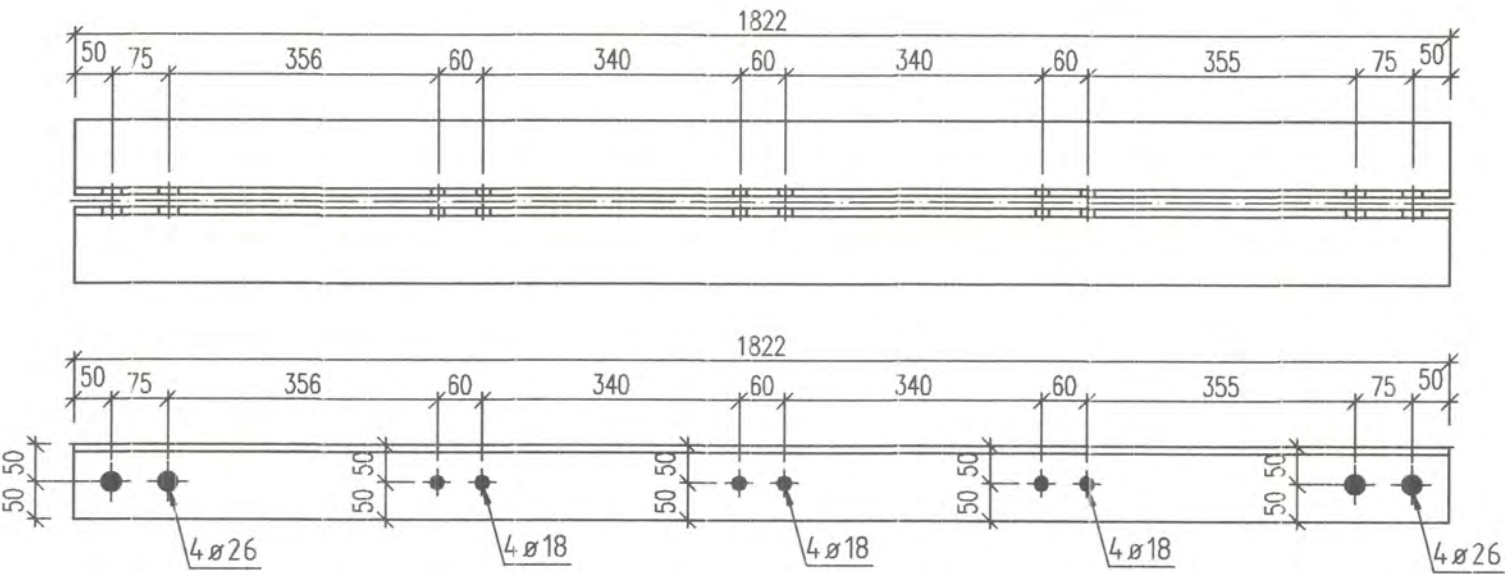
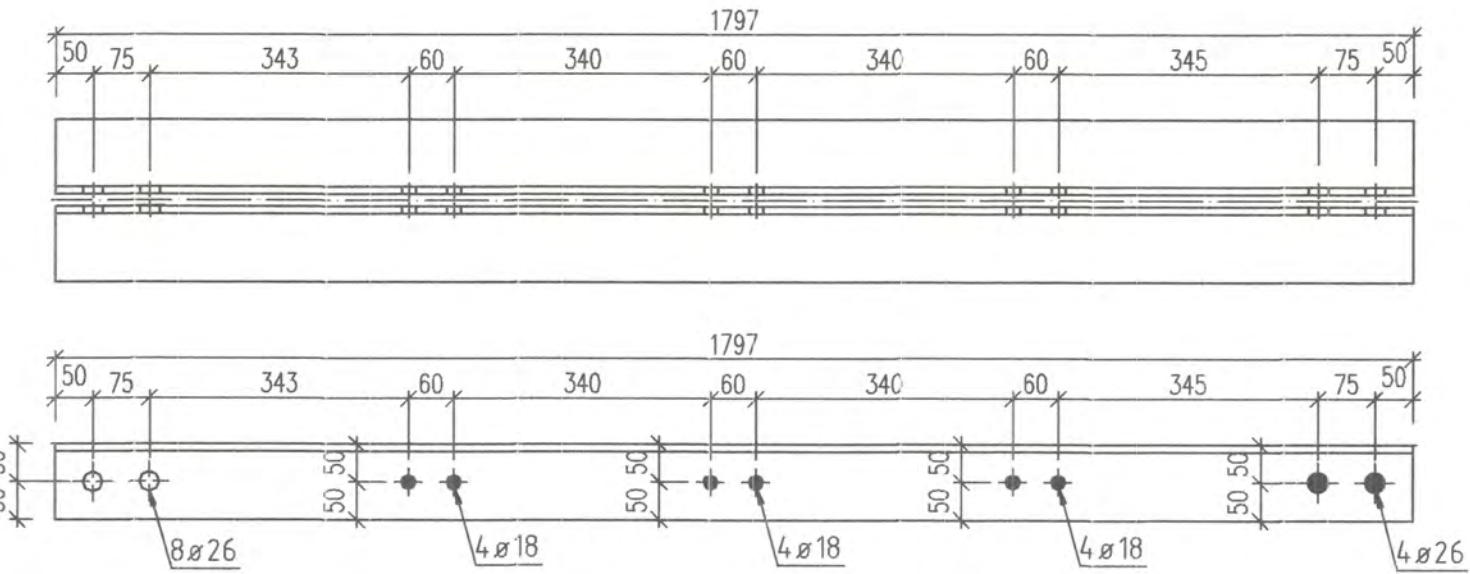
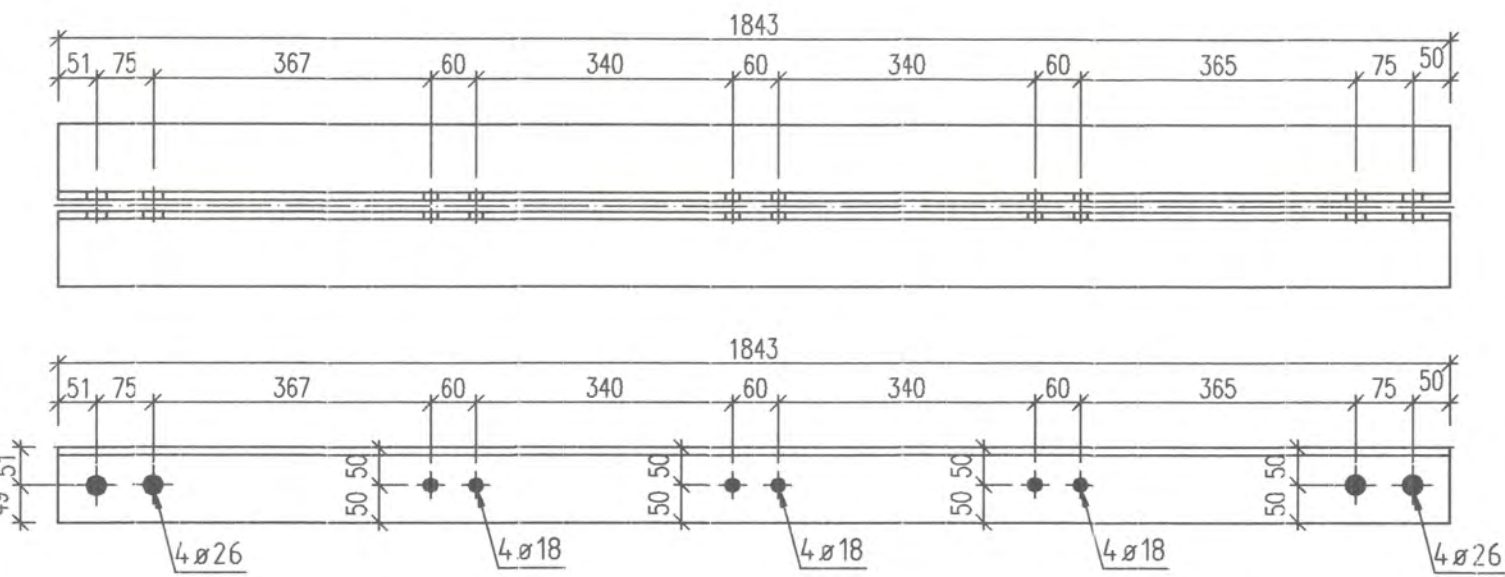
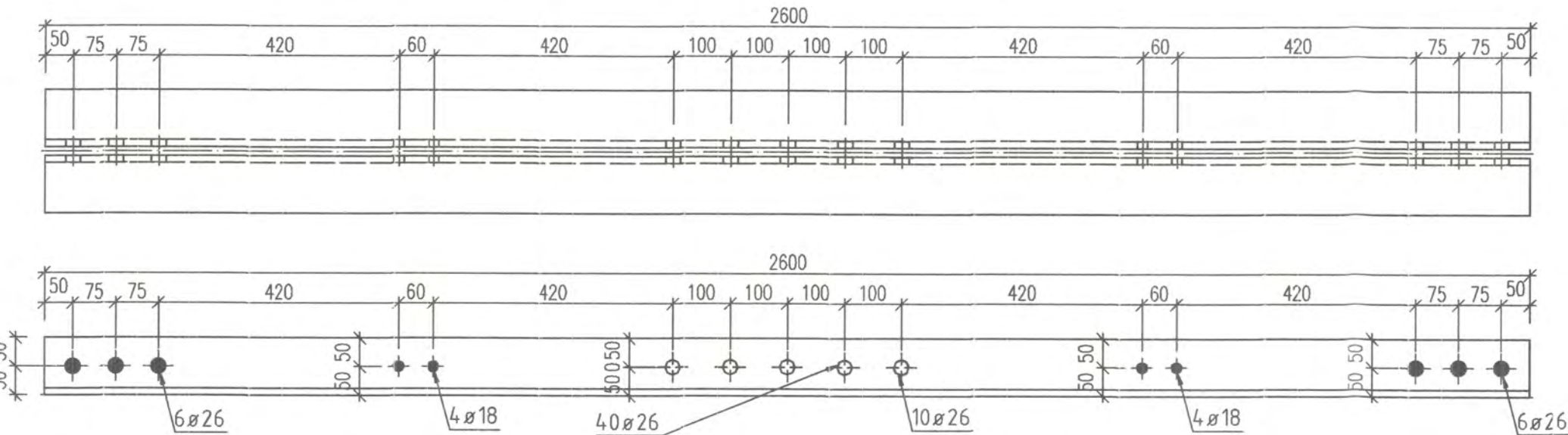
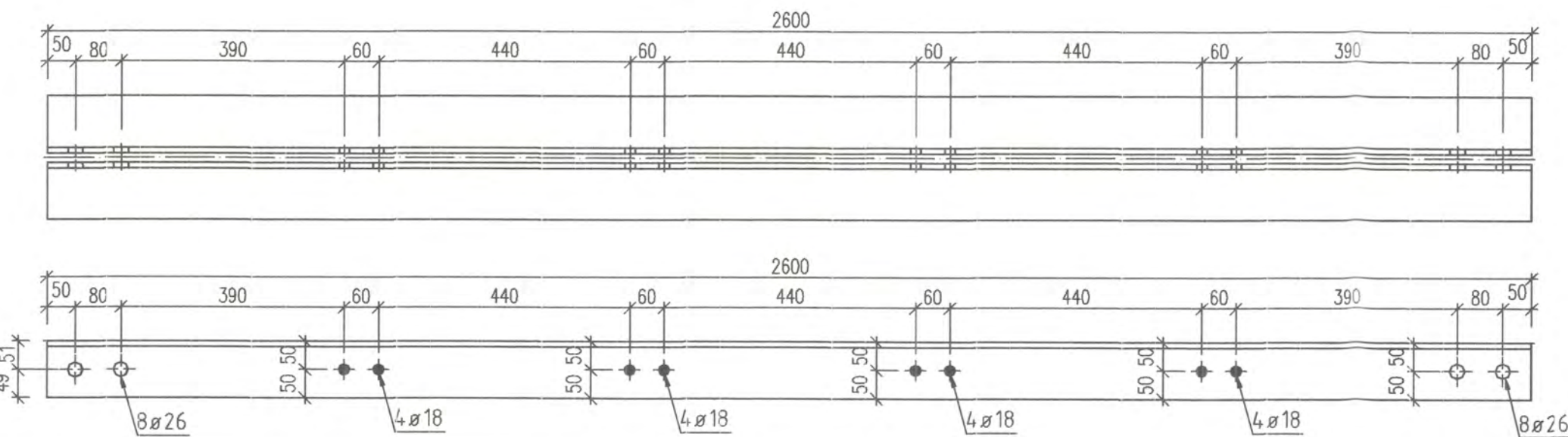






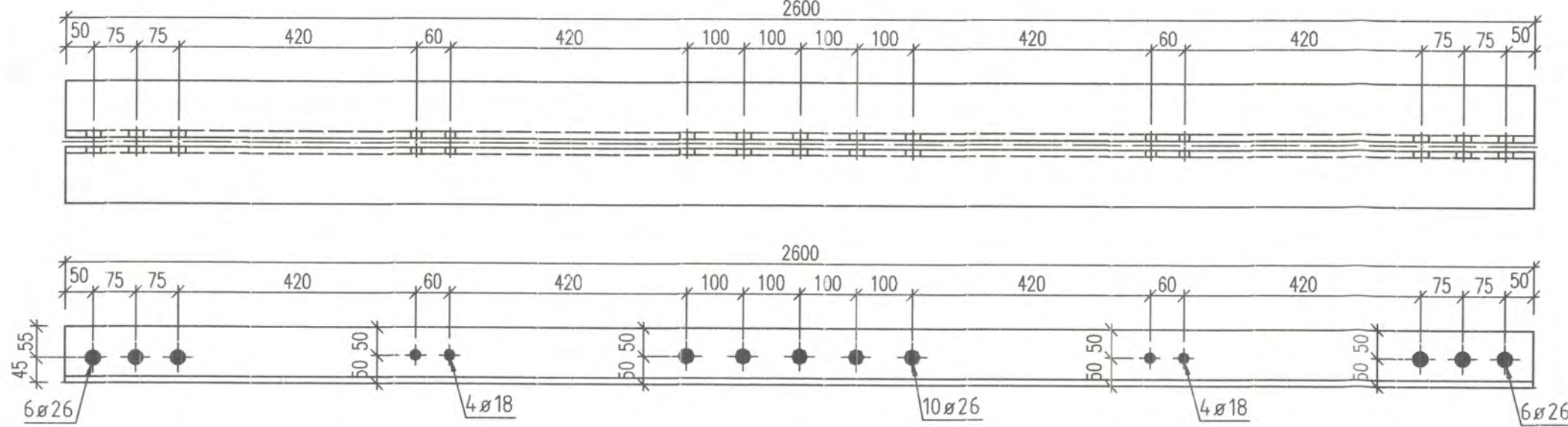




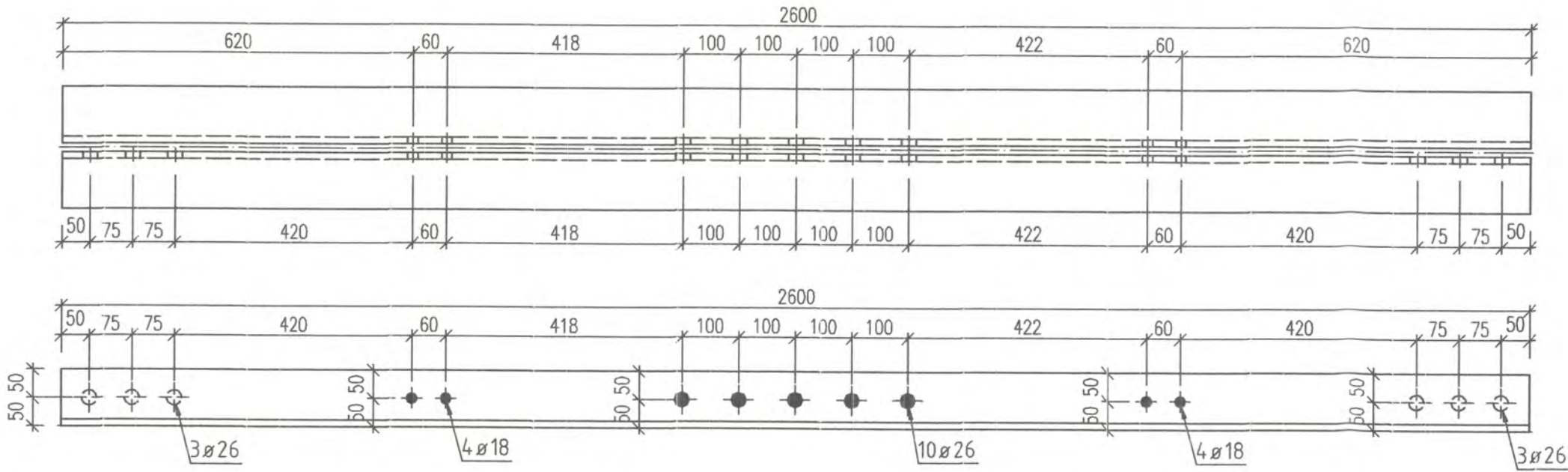




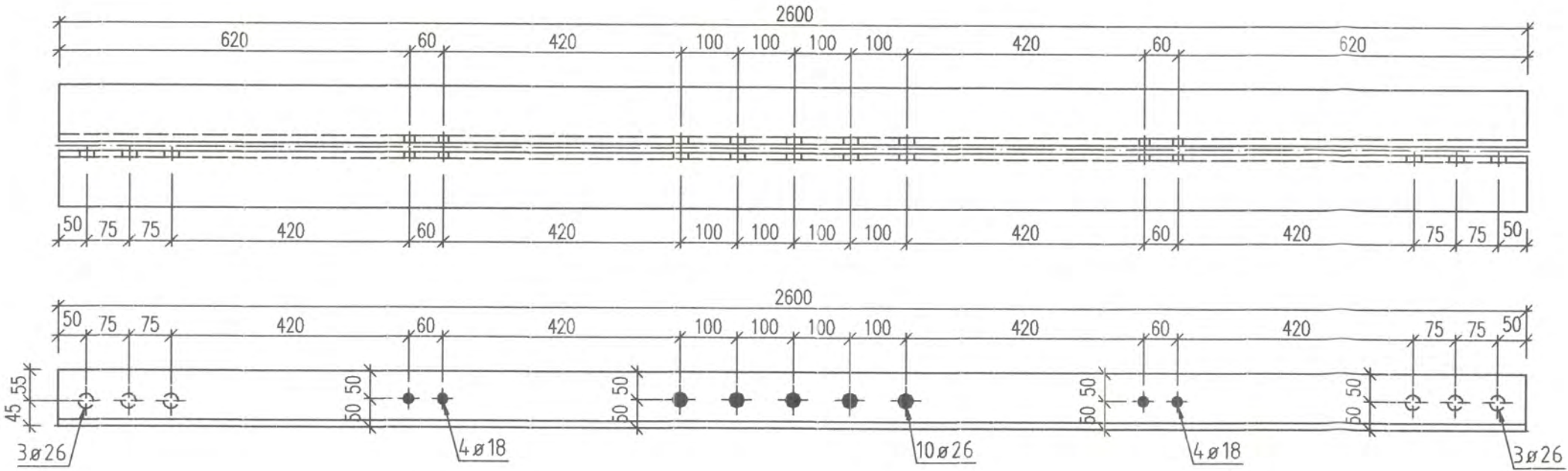
2x **36** - 2600  
S355 - 1:10



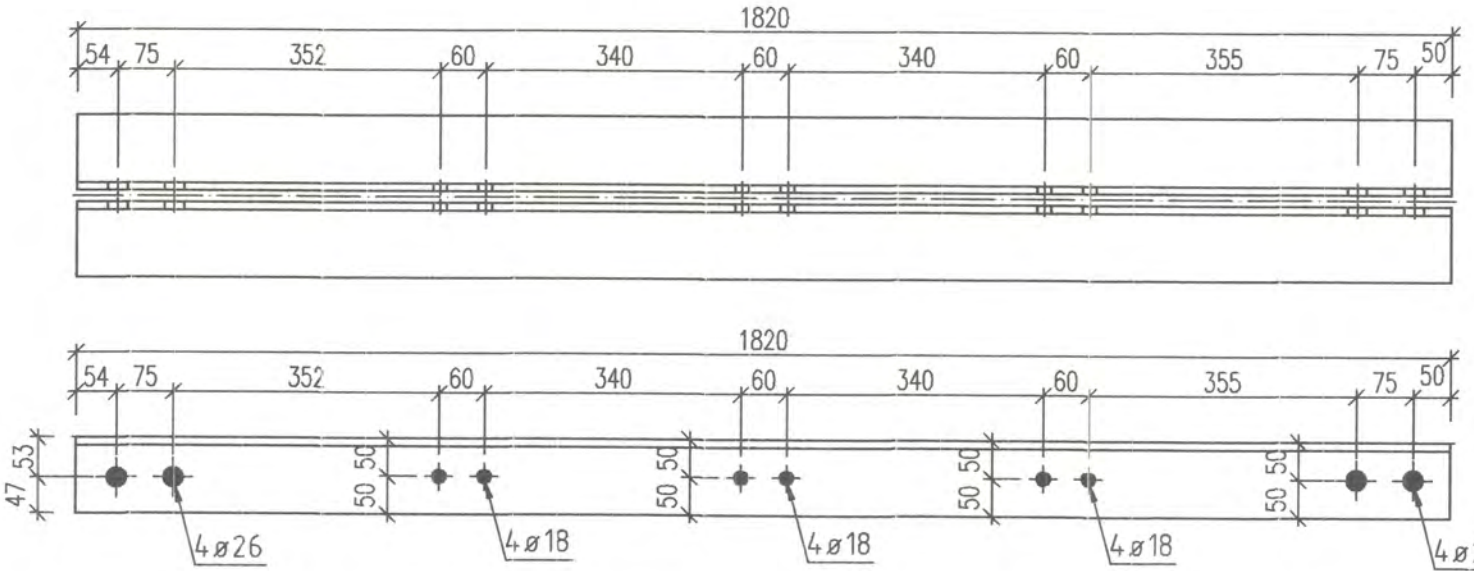
1x **49** - 2600  
S355 - 1:10



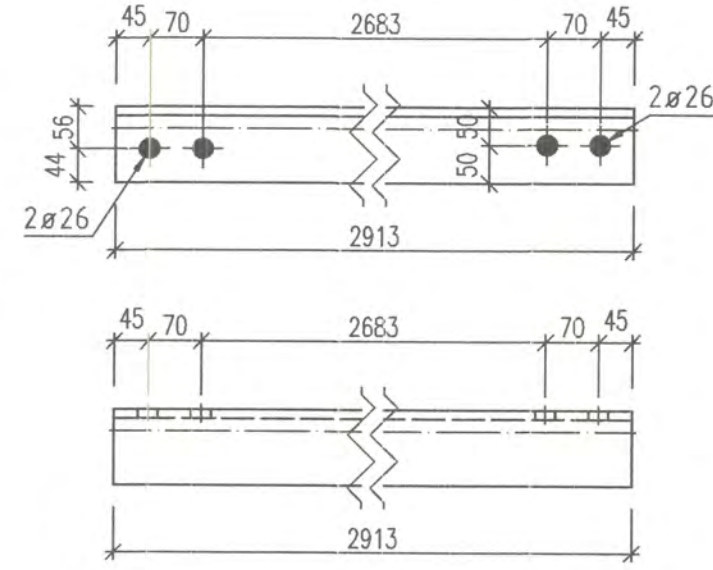
1x **50** - 2600  
S355 - 1:10



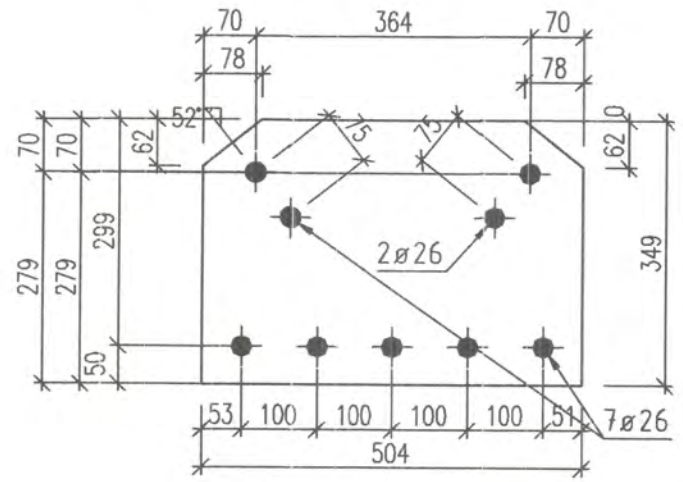
1x **64** - 1820.47  
S355 - 1:10



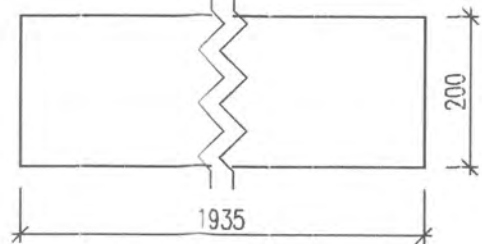
1x **84** L100X12  
S355 - 1:10



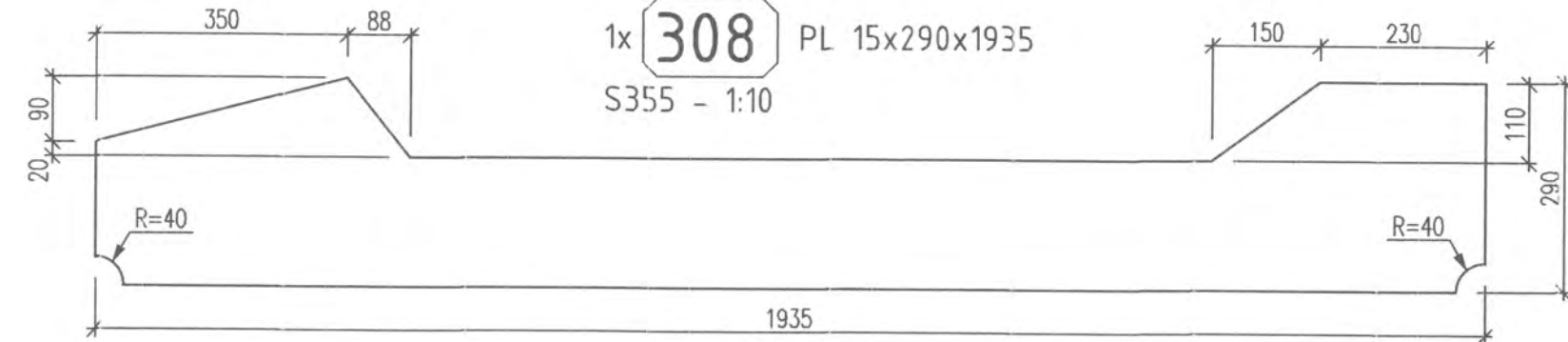
2x **232** PL 15x349.27x504.49  
S355 - 1:10



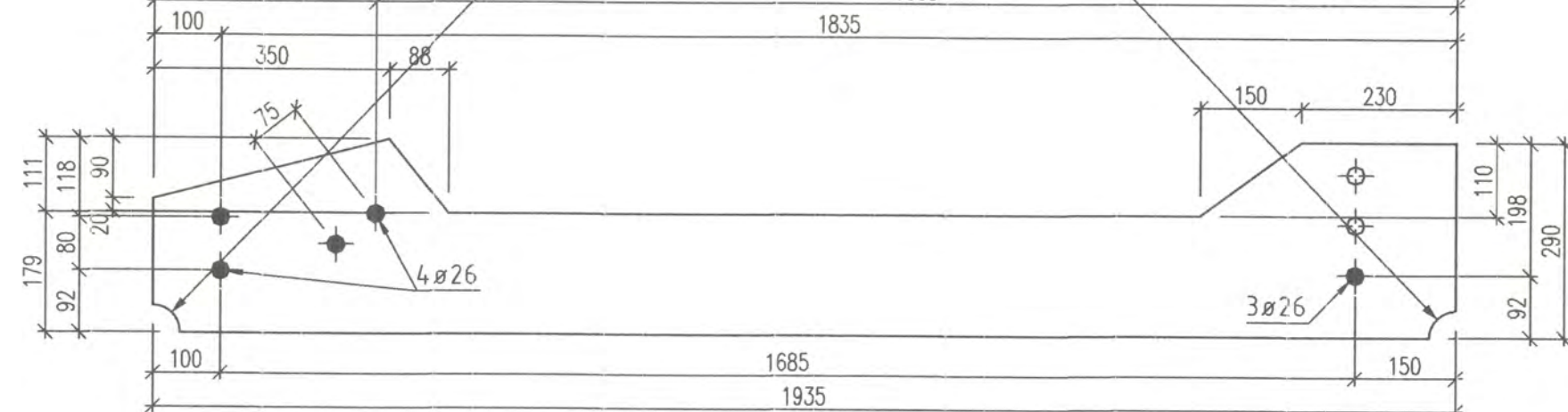
5x **147** PL 12x200x1935  
S355 - 1:10



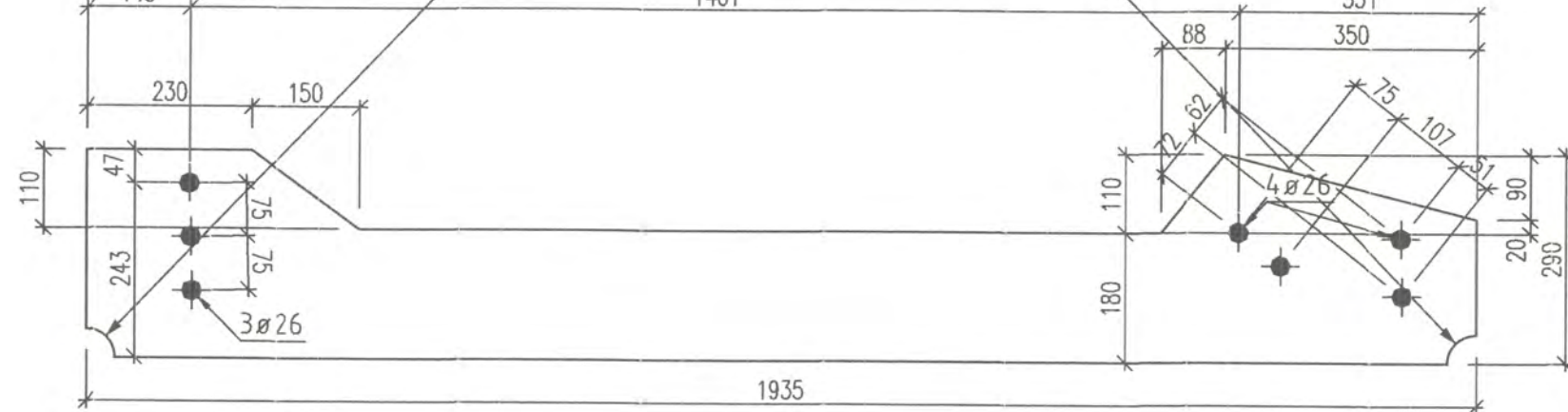
1x **308** PL 15x290x1935  
S355 - 1:10



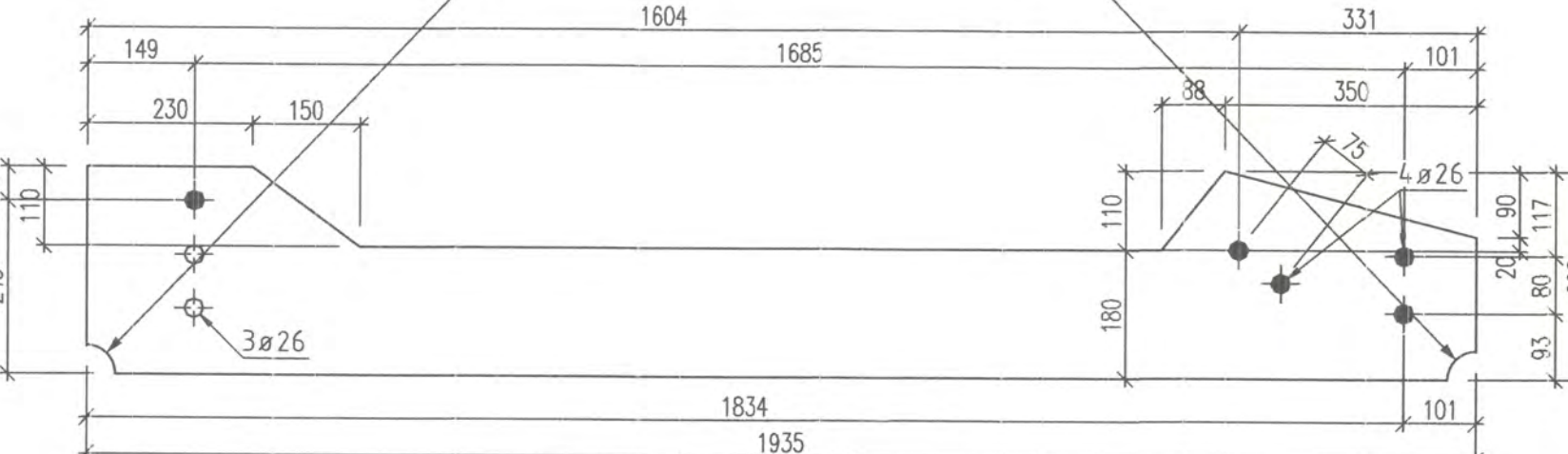
1x **309** PL 15x290x1935  
S355 - 1:10



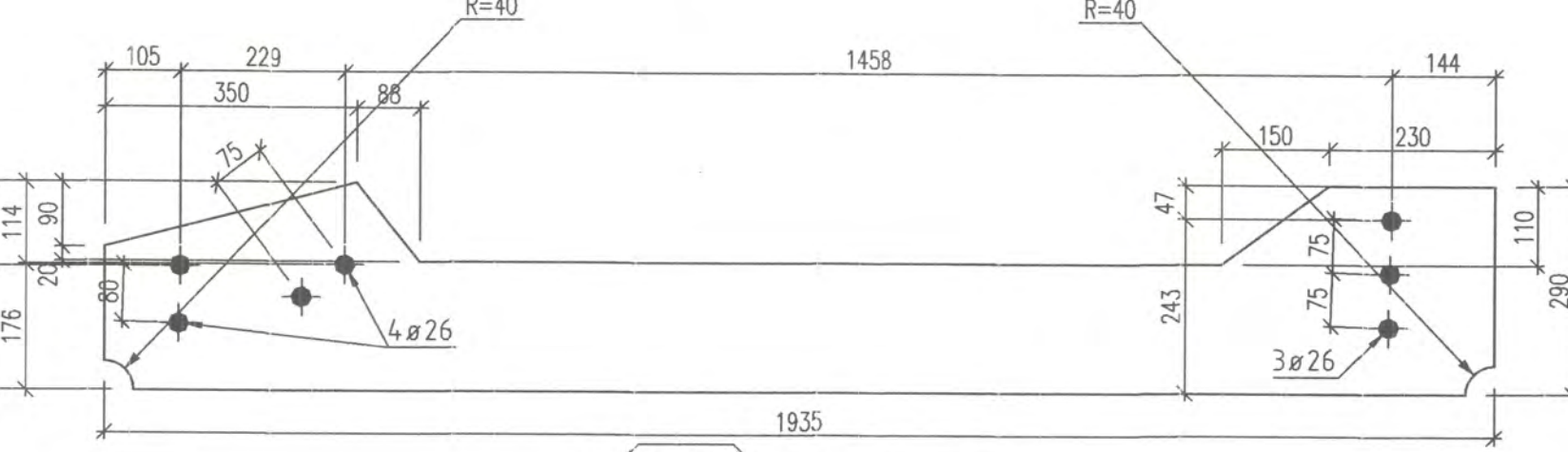
1x **310** PL 15x290x1935  
S355 - 1:10



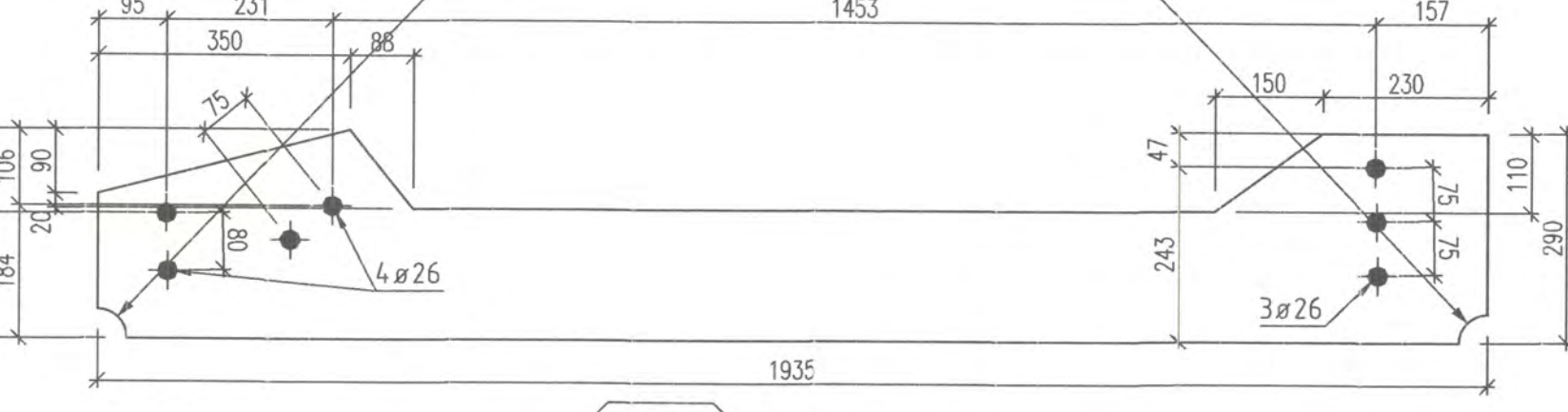
1x **311** PL 15x290x1935  
S355 - 1:10



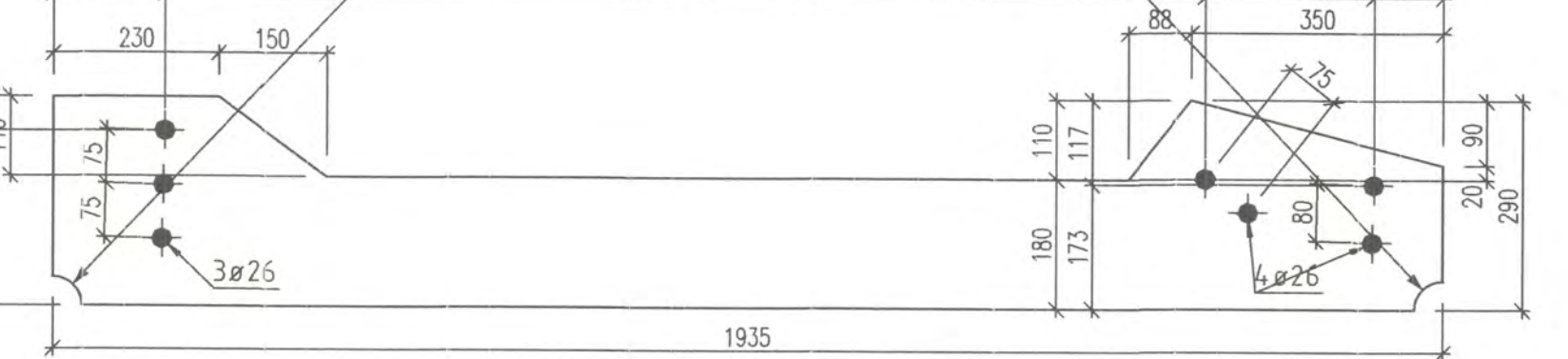
2x **221** PL 15x290x1935  
S355 - 1:10



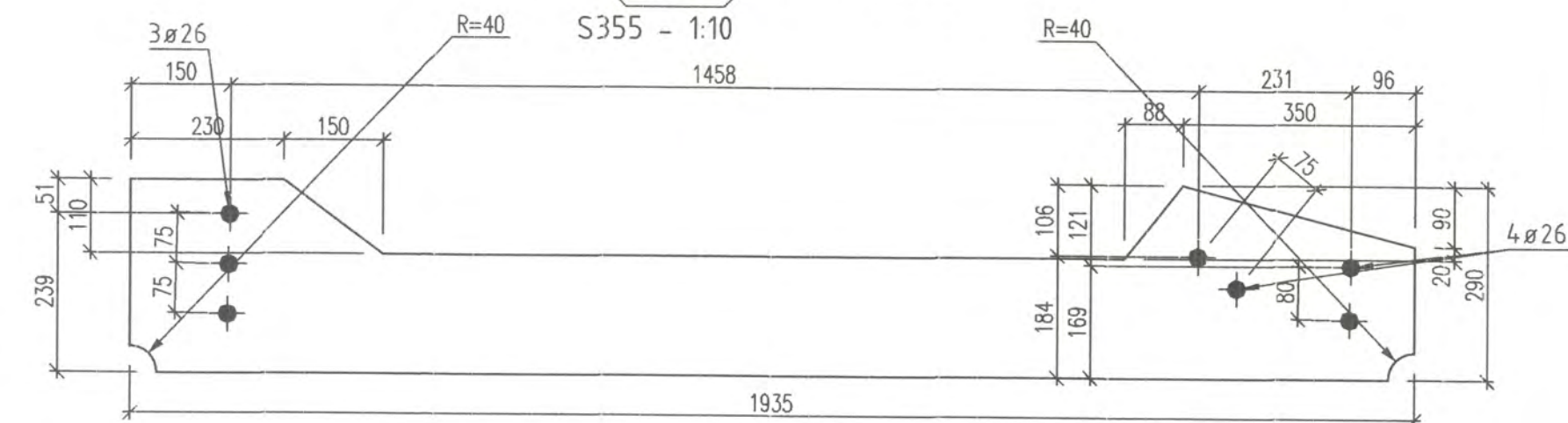
4x **179** PL 15x290x1935  
S355 - 1:10



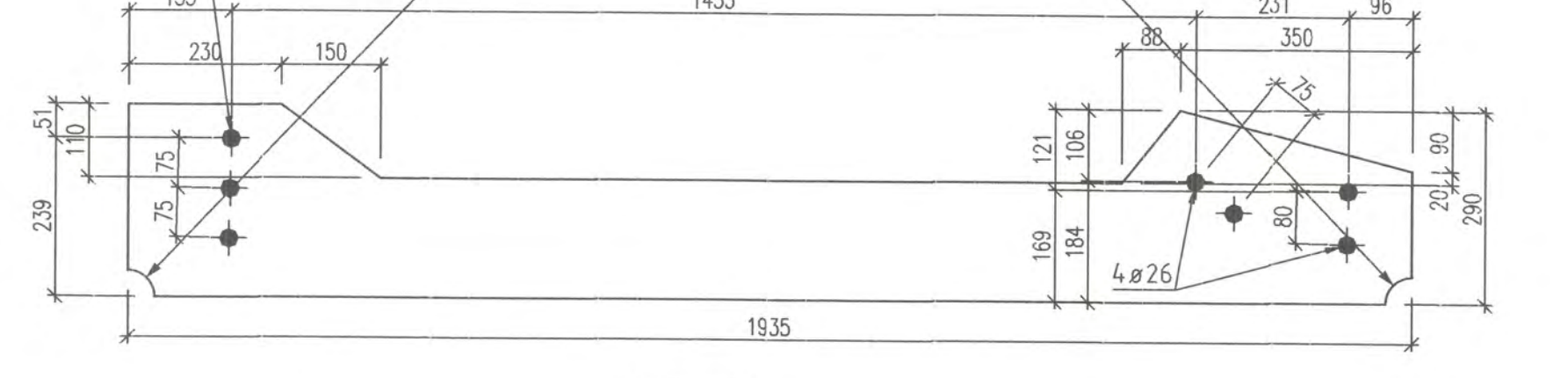
2x **222** PL 15x290x1935  
S355 - 1:10



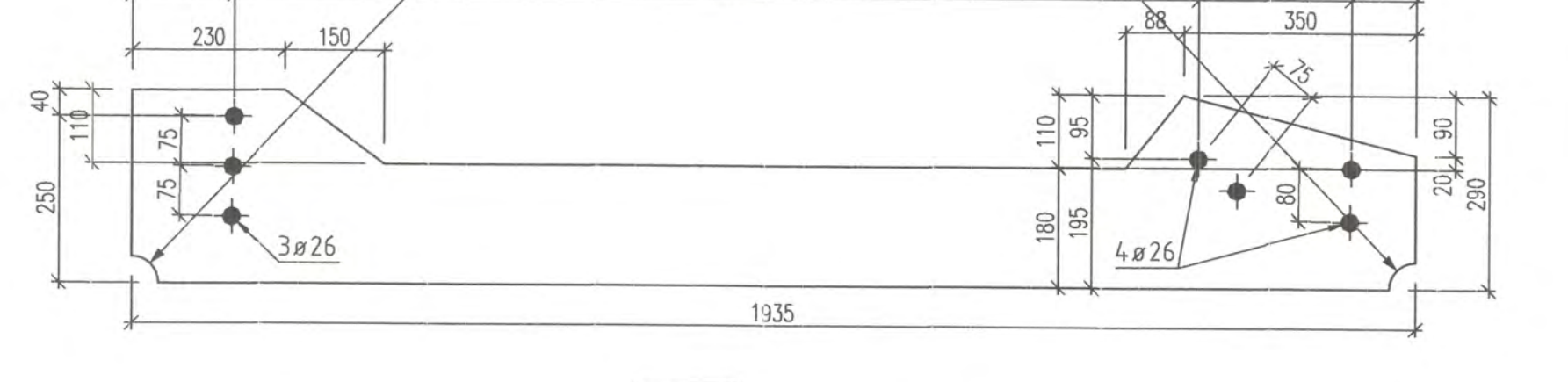
1x **282** PL 15x290x1935  
S355 - 1:10



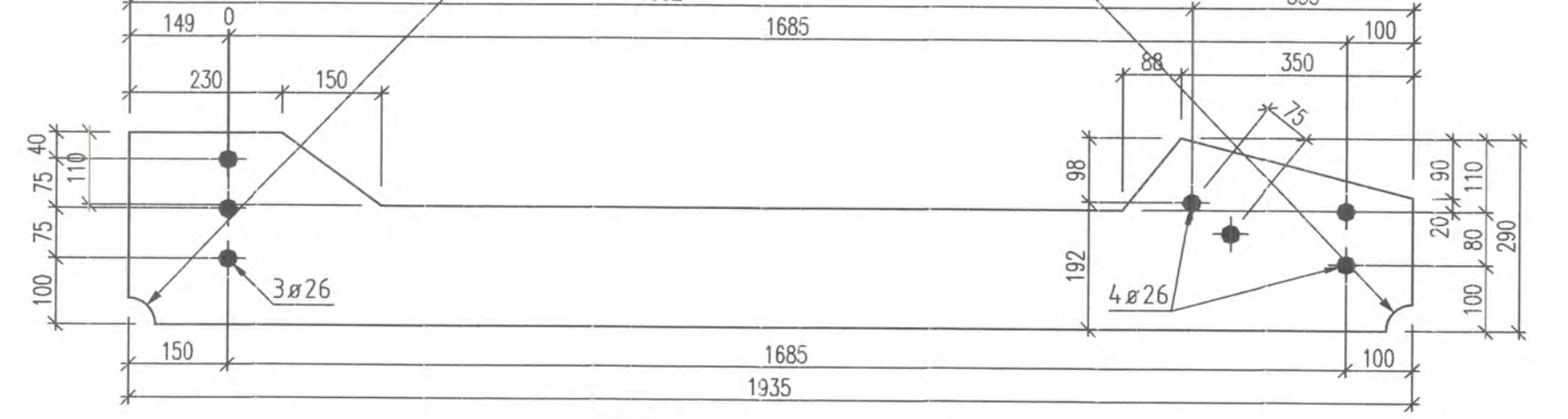
1x **283** PL 15x290x1935  
S355 - 1:10



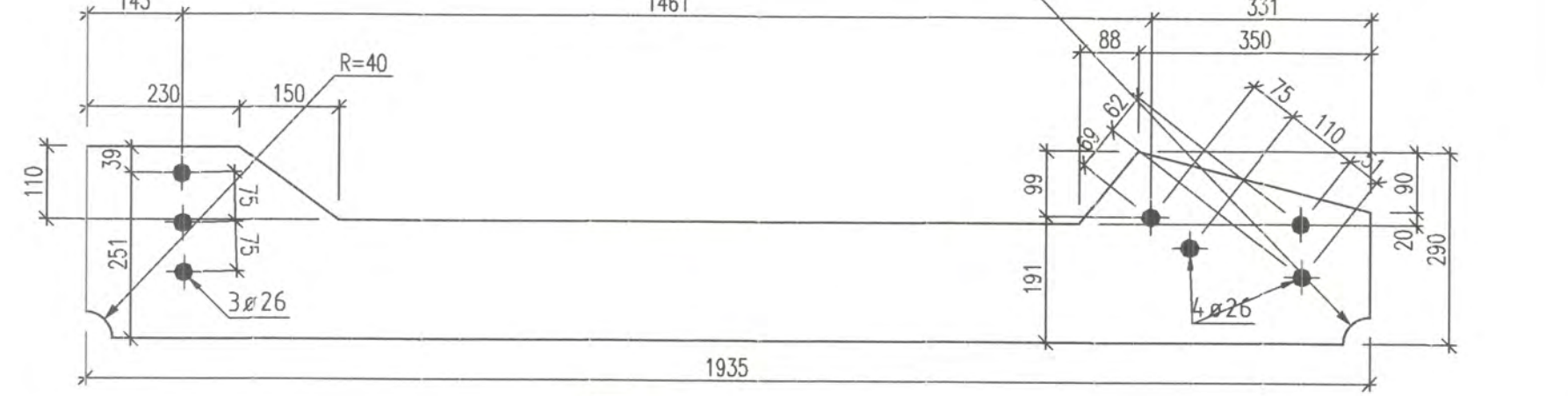
1x **304** PL 15x290x1935  
S355 - 1:10



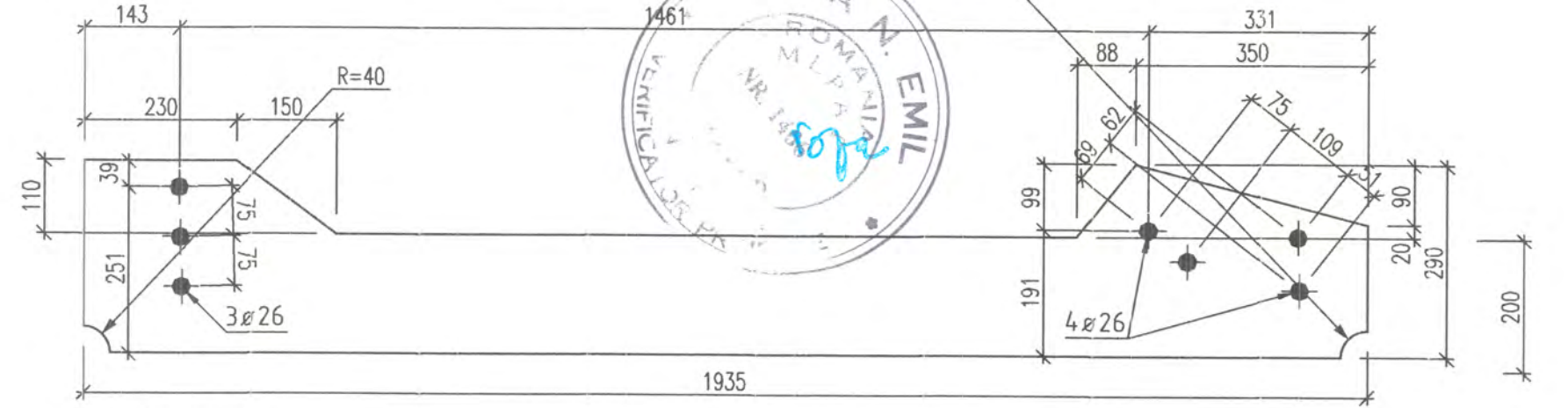
1x **305** PL 15x290x1935  
S355 - 1:10



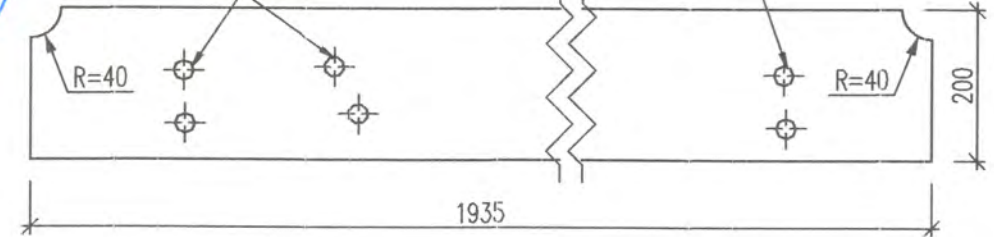
1x **306** PL 15x290x1935  
S355 - 1:10



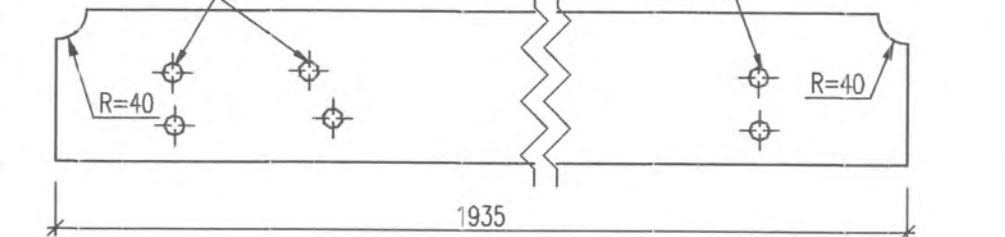
1x **307** PL 15x290x1935  
S355 - 1:10



1x **257** PL 12x200x1935  
S355 - 1:10



1x **258** PL 12x200x1935  
S355 - 1:10



BENEFICIAR:  
COMPANIA NATIONALA DE  
ADMINISTRARE A  
INFRASTRUCTURII RUTIERE S.A.  
Adresa BMD Dracu Colonea 38, sector 1, Bucuresti, Romania, 010873  
Tel: 021 264 32 00 / Fax: 021 263 28 84  
Email: oficiu@cnir.ro

PROIECTAT:  
S.C. NV CONSTRUCT S.R.L.  
Cluj-Napoca, Str. Argheș, nr.26, ap.8  
C.U.I.: RO18639415  
Nr.Reg. Com: J17/520/2006



TITLU PROIECT:  
"Pasaj superior pe DN2, peste CF la Roman,  
Km 332+961"

Coord. proiect: Ing. Dan SIMA  
Coord. ad. proiect: Ing. Mircea BOBAR  
Proiectat: Ing. Dan TOMOAGA  
Verificat: Ing. Valeria TONU

Numar Proiect: 550/2021  
Scara: 1:10  
Data: Ian. 2024  
PROIECT ALTERNATIVA FAZA OBIECT SUBRECI TITLU NUMAR REVIZIA  
550/2021 A1 PTE POD PD 817 R 1



Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances. The drawing includes a top view and a side view. Key dimensions include overall length 1935, overall width 290, and various internal dimensions like 331, 350, 1460, 144, 150, 230, 110, 239, 51, 75, 75, 144, 110, 290. It also shows radii  $R=40$  and hole specifications  $4 \varnothing 26$  and  $3 \varnothing 26$ .

The technical drawing shows two views of a mechanical component. The top view (plan) has overall dimensions of 1935 by 290. It features a central horizontal section with a width of 1685 and a total length of 1834. There are several offset sections and holes. A hole with a diameter of  $\varnothing 26$  is located at a distance of 101 from the left edge. Another hole with a diameter of  $\varnothing 26$  is located at a distance of 149 from the right edge. The bottom view (side elevation) shows the profile of the component with a total height of 290. It includes vertical dimensions of 108, 72, 90, 20, 89, 80, and 162. Horizontal dimensions include 101, 330, 350, 88, 1605, 150, 230, 110, 75, 164, and 1935. Two fillet radii of R=40 are indicated.

[illegible]

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and features. The part has a total length of 1935 and a total height of 290. It features a base with a 4x26 hole pattern, a top flange with a 3x26 hole pattern, and a central section with a 1461 length and a 110 height. The drawing includes various radii (R=40) and specific dimensions for the holes and flanges.





Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and features. The part has a total length of 1935 and a total height of 290. It features a base with a 180mm height, a top section with a 110mm height, and a central section with a 1461mm length. The drawing includes various radii (R=40), hole diameters (3 holes of 26mm), and specific dimensions for the base and top sections.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and features. The drawing includes a top view and a side view. Key dimensions include: overall length 1935, overall width 290, and various radii (R=40, R=80). The top view shows a complex shape with a central rectangular section and two angled sections. The side view shows a profile with a vertical section of 108 and a horizontal section of 119. The drawing also indicates the presence of 4 holes of diameter 26 and 3 holes of diameter 26.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and features. The part has a total length of 1935 and a total height of 290. It features a central horizontal section with a width of 1452 and a top flange with a width of 154. The drawing includes various radii (R=40) and hole specifications (3x26 and 6x26).



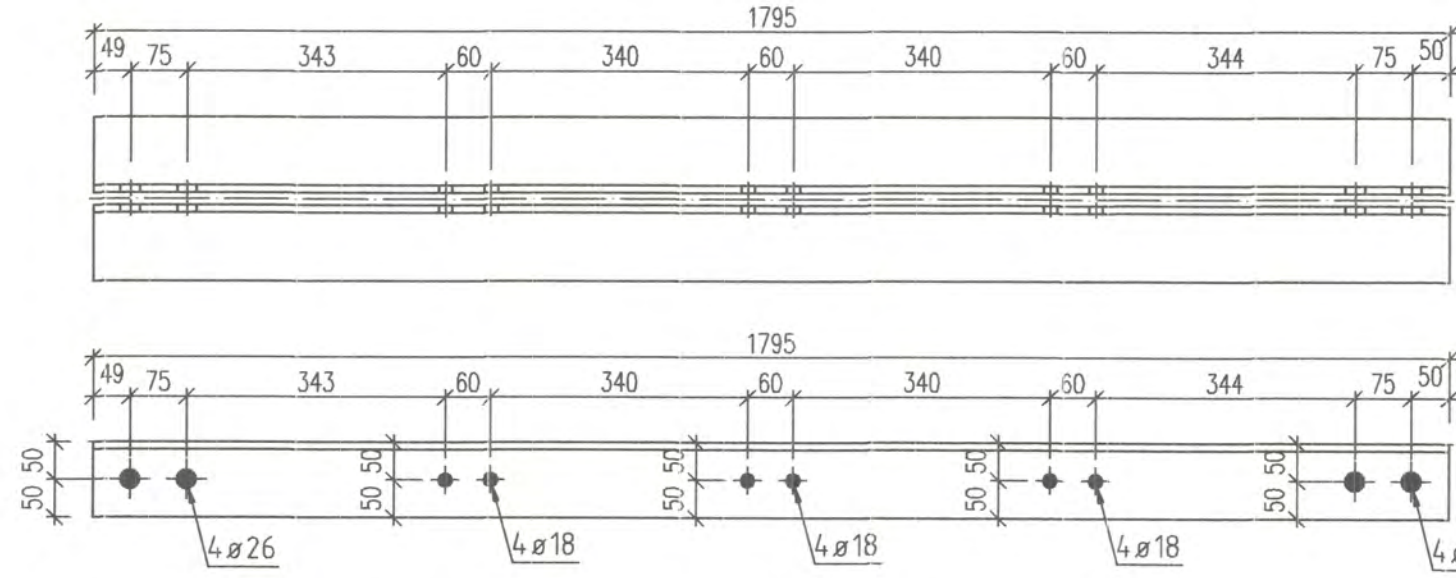
nv construct  
INFRASTRUCTURE DESIGN

Coord. proiect:	ing. Dan SIMA	
Coord. adj. proiect:	ing. Mirela BOBAR	
Proiectat:	ing. Dan TOMCIAGA	
Verificat:	ing. Valeria TONIU	

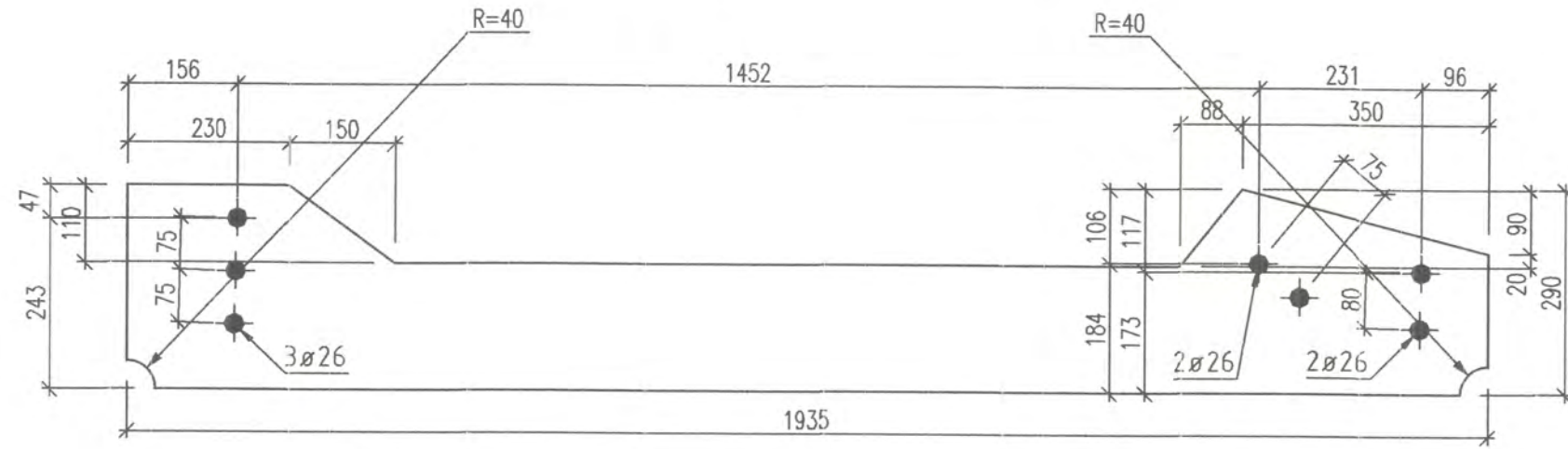
Titlu Proiect: 550/2021	Confecție metalică Plan debitare						
Scara: 1:10							
Data: Ian. 2024	PROIECT	ALTERNATIVĂ	FAZA	OBIECT	SUBIECT	NUMAR	REVIZIA
	550/2021	A1	PTE	POD	PD	818	R 1



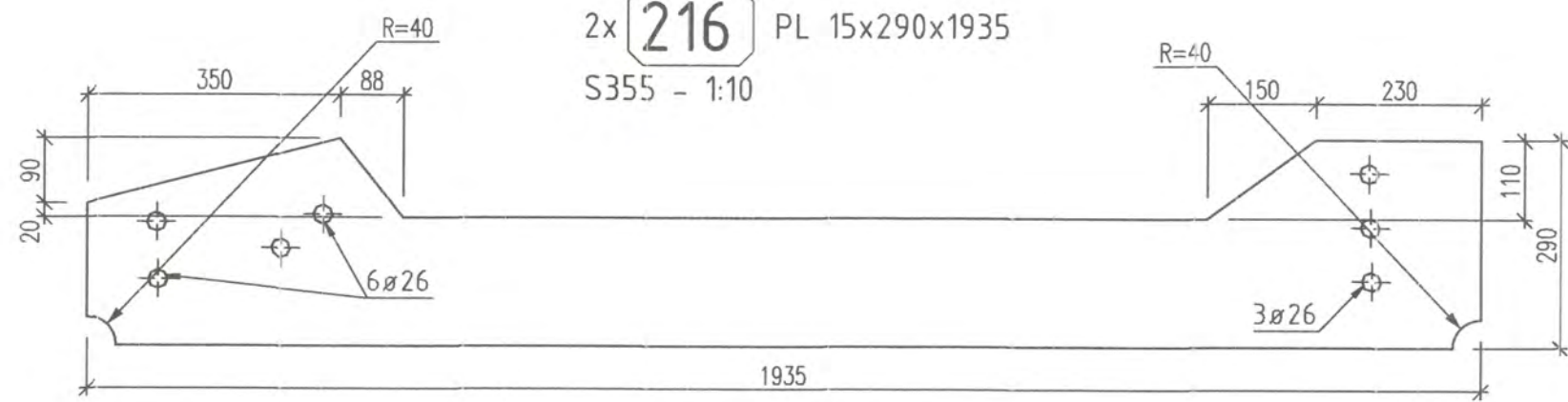
1x **76** - 1795.13  
S355 - 1:10



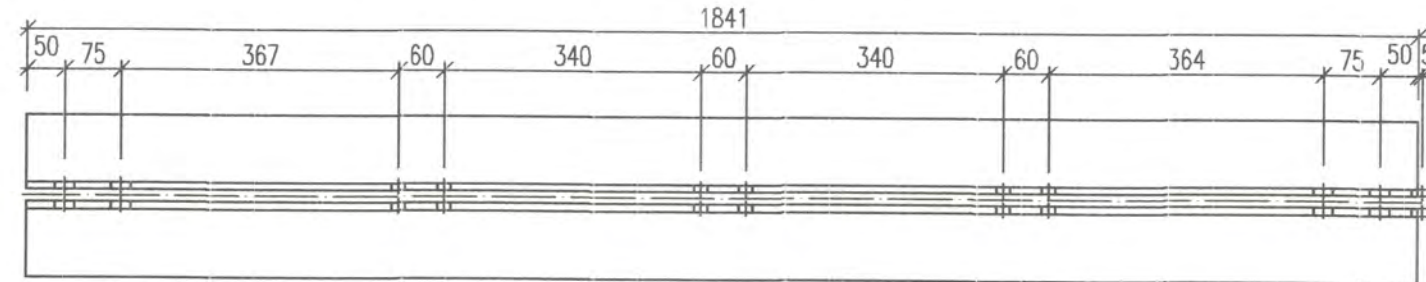
1x **343** PL 15x290x1935  
S355 - 1:10



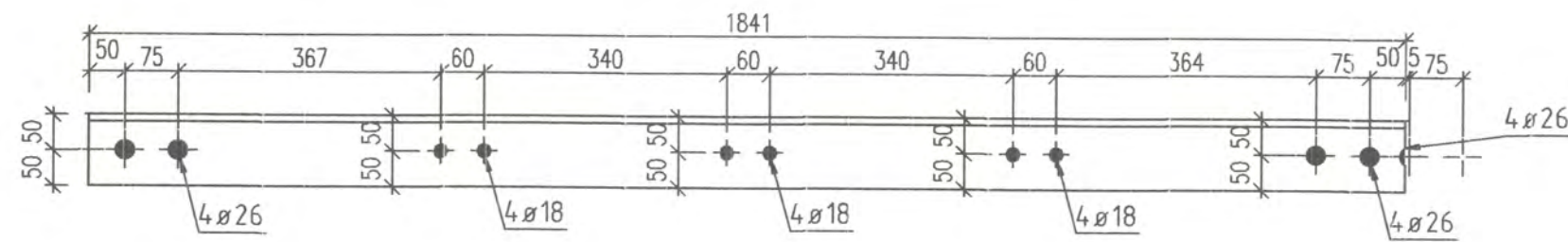
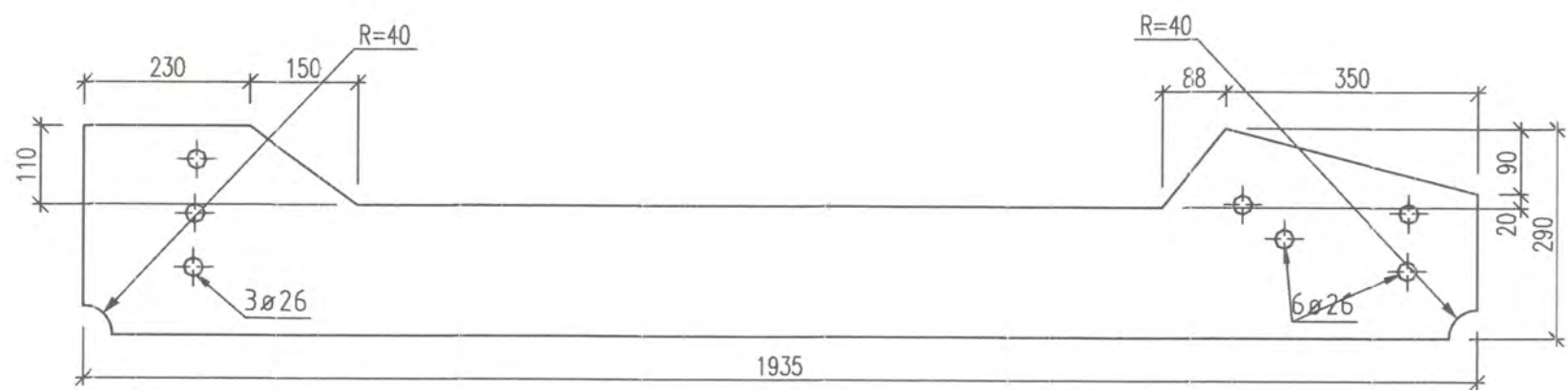
2x **216** PL 15x290x1935  
S355 - 1:10



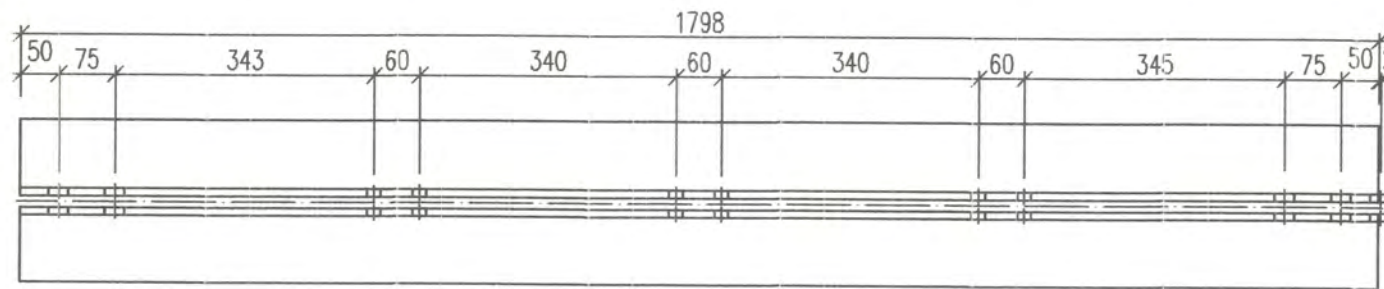
1x **58** - 184.13  
S355 - 1:10



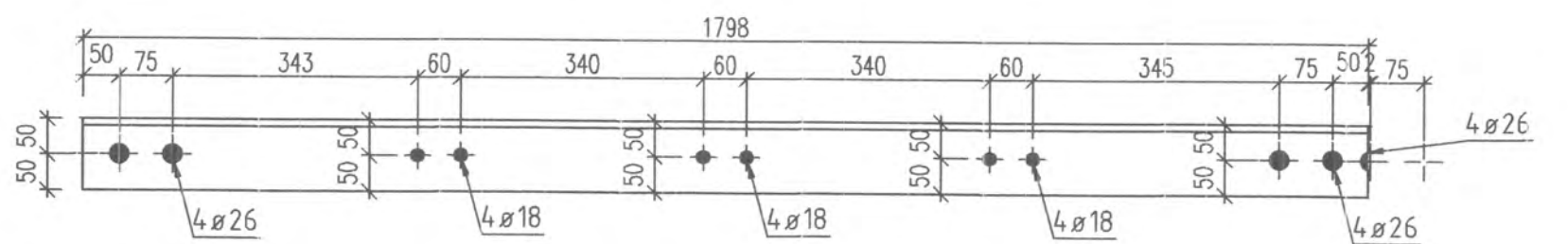
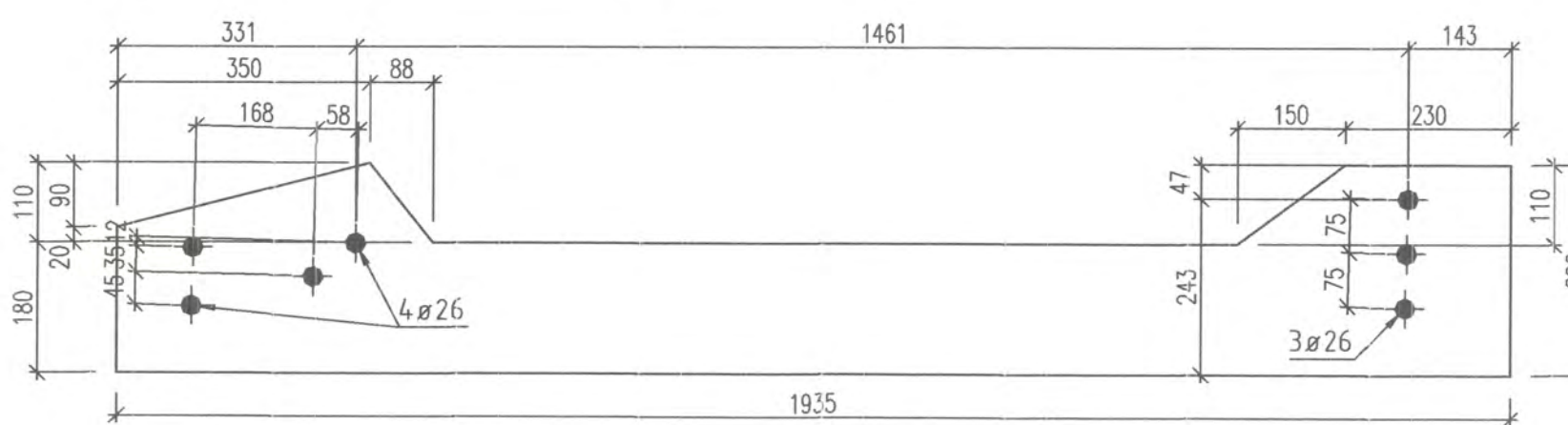
1x **285** PL 15x290x1935  
S355 - 1:10



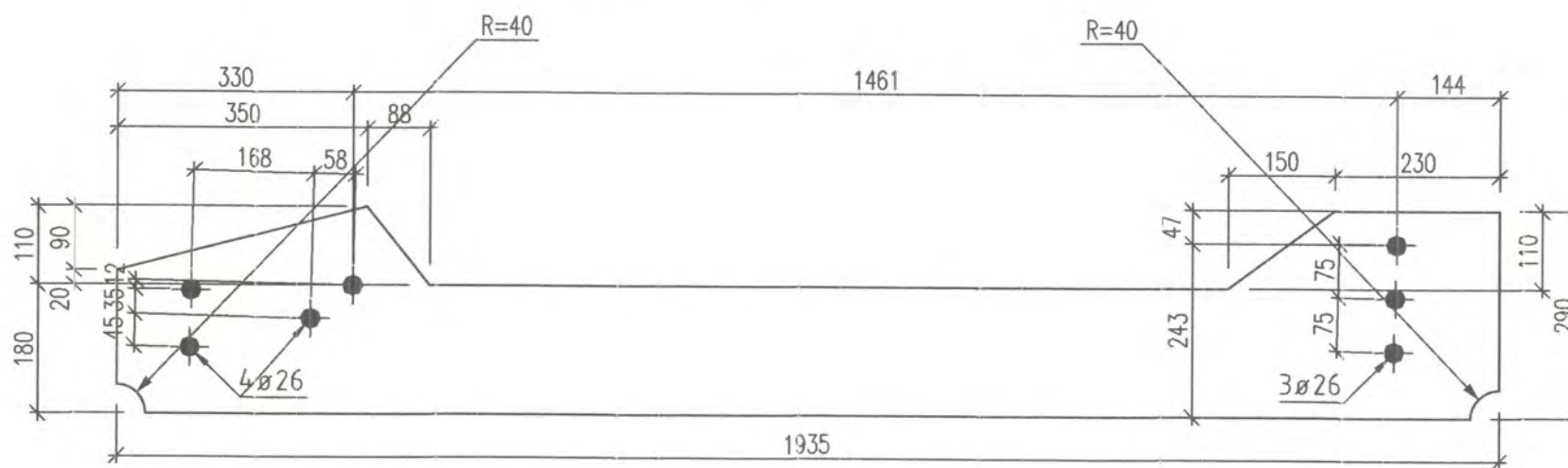
1x **73** - 1798.2  
S355 - 1:10



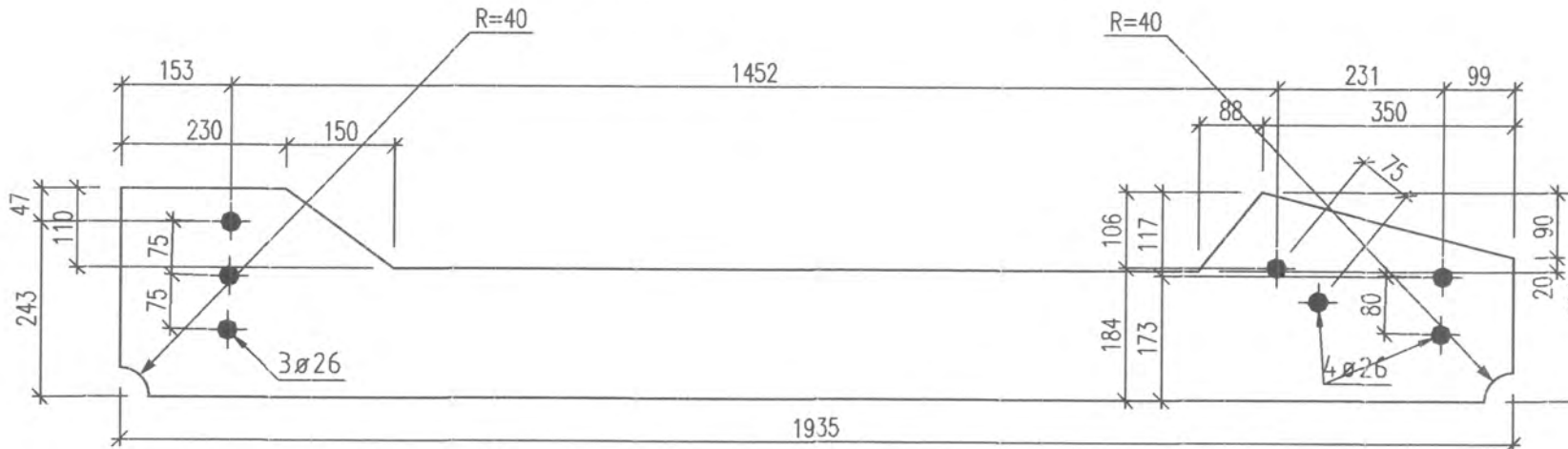
1x **291** PL 15x290x1935  
S355 - 1:10



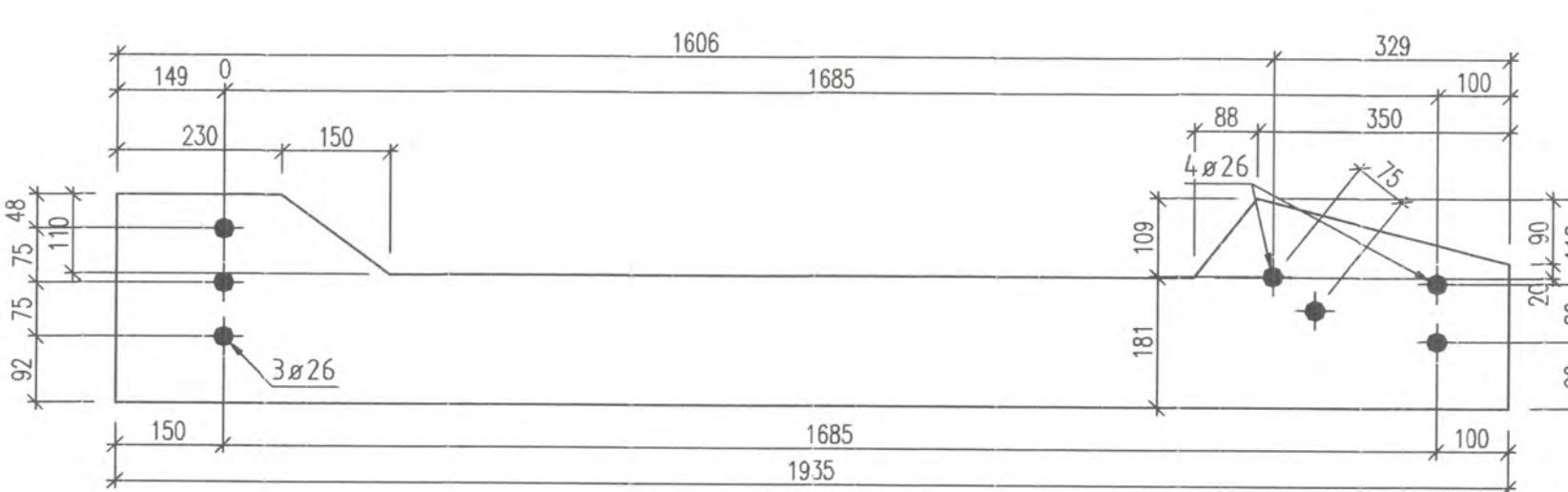
1x **344** PL 15x290x1935  
S355 - 1:10



1x **292** PL 15x290x1935  
S355 - 1:10



1x **293** PL 15x290x1935  
S355 - 1:10



BENEFICIAR:  COMPANIA NATIONALA DE ADMINISTRARE A INFRASTRUCTURII RUTIERE S.A. Adresa: Bld. Orlow, Colentina 18, sector 1, Bucuresti, Romania, 010873 Tel: 021.284.12.00   Fax: 021.352.00.94 Email: office@cnir.ro	PROIECTAT: S.C. NV CONSTRUCT S.R.L. Cluj-Napoca, Str. Arges, nr.26, ap.8 CUI: RO1803415 Nr.Reg. Com.J12/1520/2006		TITLU PROIECT: "Pasaj superior pe DN2, peste CF la Roman, Km 332+961"	Coord. proiect:	Ing. Dan SIMA	Numar Proiect: 550/2021	TITLU PLANSA: Confecție metalică Plan debitare
				Coord. adj. proiect:	Ing. Mircea BOBAR		
FAZA: P.T.E.	Verificat:	Ing. Valeria TONU	Data:	Proiectat:	Ing. Dan TOMIAGA	Scara: 1:10	PROIECT
				FAZA	ALTERNATIVA		
				OBIECT	POD		
				SUBIECT	PD		
				NUMAR	819		
				REVIZIA	R 1		