

05-01-2000 - ind A = envoyée page 1 et 50

BETON Fc 28 = 25 MPa
ACIERS Fe E 500

E			
D			
C			
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A	RAJOUTE PAGE 50	05/1/00	M.D.
IND	MODIFICATIONS	DATE	NOM

UNIVERSITE DE VALENCIENNES
et du HAINAUT-CAMBRESIS
CONSTRUCTION d'un ATELIER RATTACHE
au DEPARTEMENT de l'I.U.T.

COLDEFY et Associés Architectes
16, rue Gambetta
59400 CAMBRAI
Tél : 03.27.81.15.98 Fax : 03.27.81.50.91

D.O.E

LONGRINES ARMATURES



PARC D'ACTIVITES DE
CAMBRAI-CANTIMPRE
B.P. 195
59404 CAMBRAI Cedex
TEL: 03.27.83.89.45
FAX: 03.27.78.37.96

AFF N

99124

PLAN N

05 A

ECH: 1/10 - 1/15
DATE 29/12/99

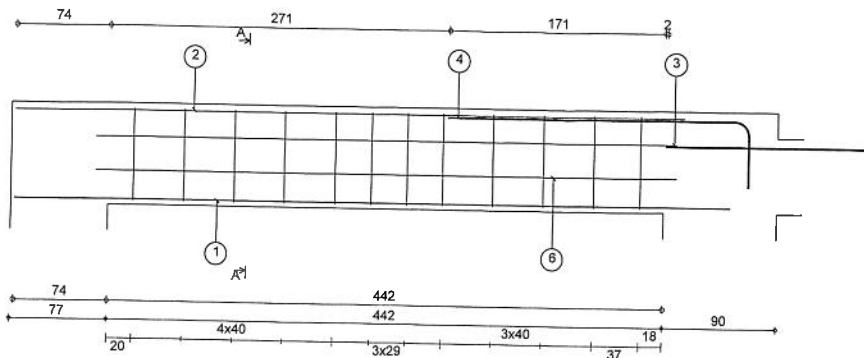
BUREAU D'ETUDE:

B.E.T. H. SIGIER

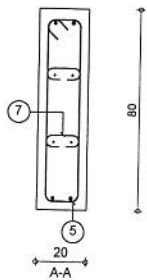
46, Avenue de Saint Amand
59300 VALENCIENNES

TEL: 03.27.24.59.34

FAX: 03.27.35.45.38



1	2HA12	l=569	569
2	2HA8	l=532	532
3	2HA20	l=221	221
4	2HA20	l=285	52 239
5	12HA8	l=186 es=40	73 14
6	4HA6	l=462	462
7	24HA6	l=29	14

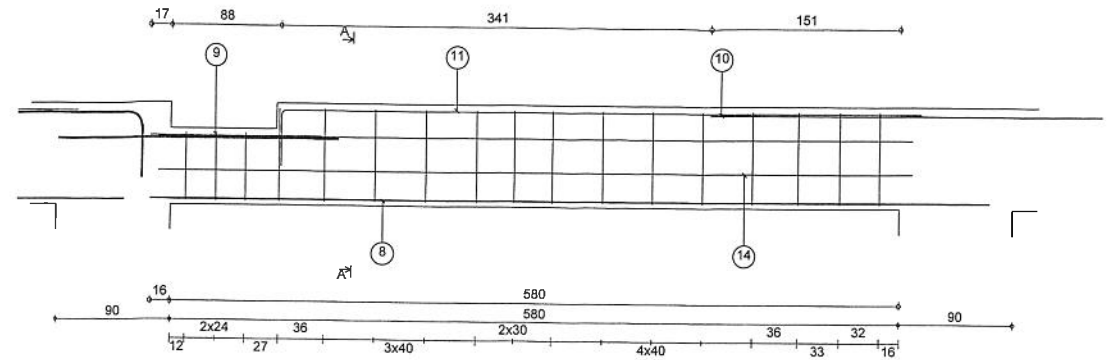


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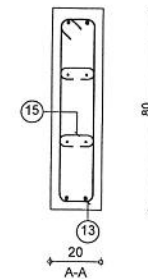
Longrines
OGP Cambrai

L1
Section 20x80

Acapulco V4.1 Fe500(HA) 54 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0,707 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15 2/



8	2HA16	l=667	667
9	2HA8	l=137	137
10	2HA12	l=382	382
11	2HA8	l=551	44 509
12	3HA8	l=146 es=24	53 14
13	14HA8	l=186 es=27	73 14
14	4HA6	l=600	600
15	34HA6	l=29	14

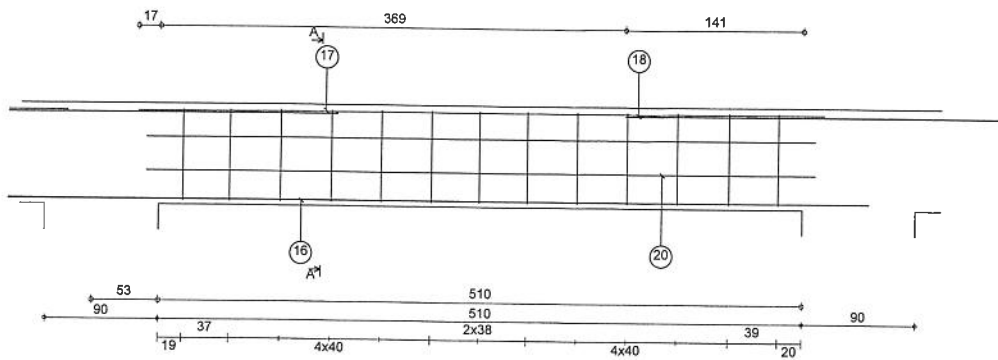


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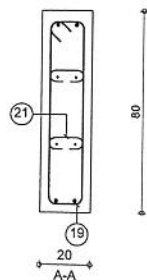
Longrines
OGP Cambrai

L2
Section 20x80

Acapulco V4.1 Fe500(HA) 53 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0,928 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15 3/



16	2HA12	l=616	616
17	2HA8	l=544	544
18	2HA12	l=371	371
19	13HA8	l=186 es=37	73 14
20	4HA6	l=530	530
21	28HA6	l=29	14

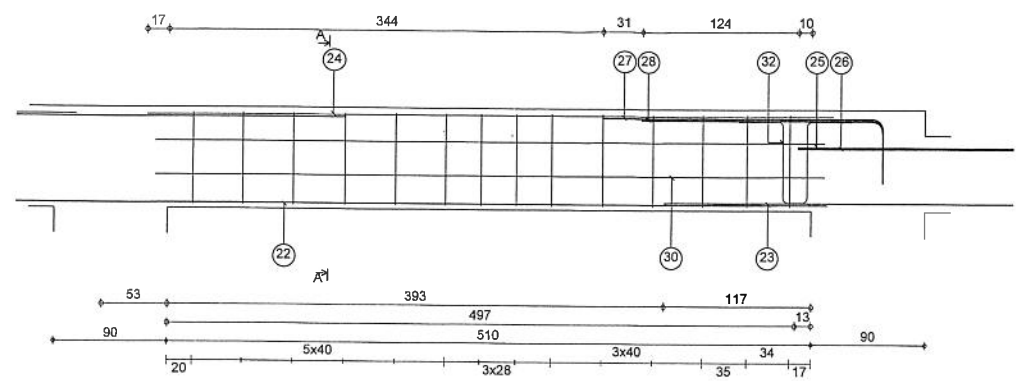


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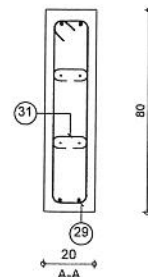
Longrines
OGP Cambrai

L3
Section 20x80

Acapulco V4.1 Fe500(HA) 38 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0,816 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15 4/



22	2HA12	l=575	575
23	2HA12	l=324	324
24	2HA8	l=544	544
25	2HA16	l=241	241
26	2HA16	l=235	235
27	2HA16	l=267	49 223
28	2HA16	l=235	49 192
29	14HA8	l=186 es=40	73 14
30	4HA6	l=530	530
31	28HA6	l=29	14
32	2HA8	l=219	64 35 20 3564

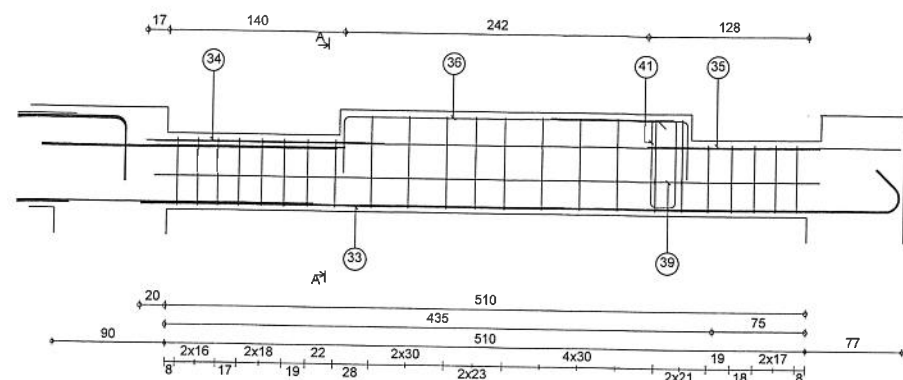


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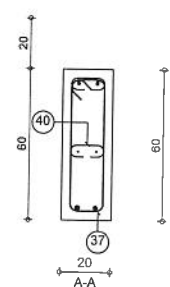
Longrines
OGP Cambrai

L4
Section 20x80

Acapulco V4.1 Fe500(HA) 70 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0,816 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15 5/



33	2HA20	l=638	604
34	2HA8	l=189	189
35	2HA8	l=202	202
36	2HA8	l=358	44 274 44
37	13HA8	l=146 es=16	53 14
38	10HA8	l=186 es=28	73 14
39	4HA6	l=530	530
40	46HA6	l=29	14
41	2HA8	l=264	14 76



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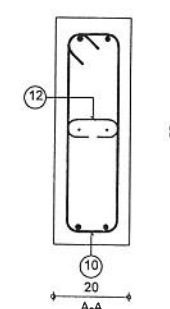
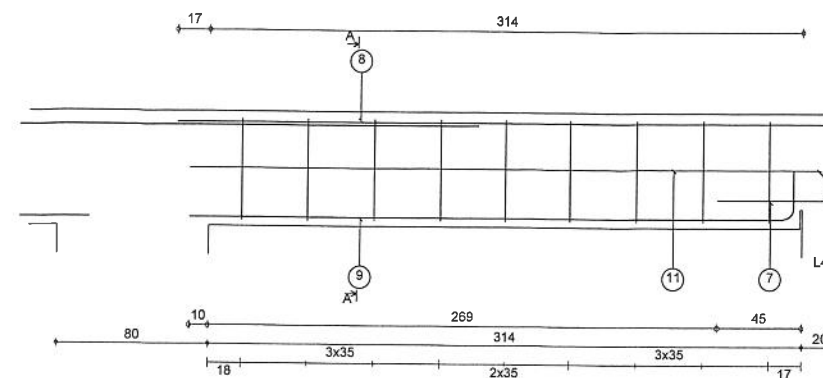
Longrines
OGP Cambrai

L5
Section 20x80

Acapulco V4.1 Fe500(HA) 62 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

Dessiné le 27/12/99
Béton (B25) = 0.816 m3

6/



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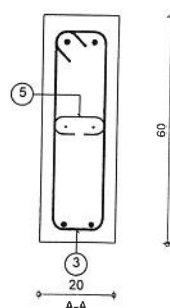
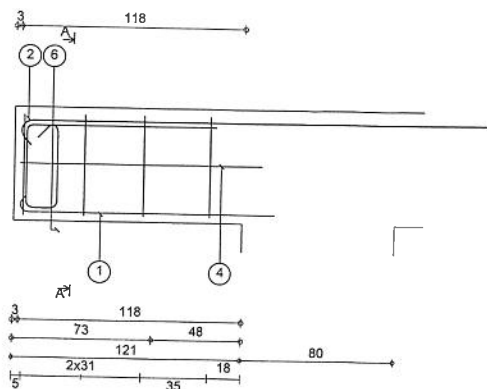
Longrines
OGP Cambrai

L6
Section 20x60

Acapulco V4.1 Fe500(HA) 15 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

Dessiné le 27/12/99
Béton (B25) = 0.377 m3

7/

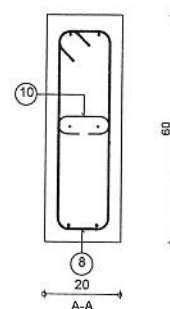
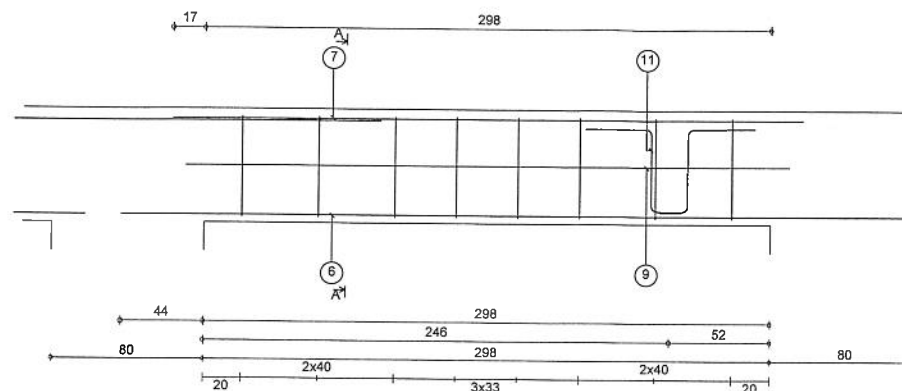


1	2HA6	l=142	7 135
2	2HA10	l=351	1 340
3	4HA8	l=146 es=35	53 14
4	2HA6	l=128	128
5	4HA6	l=29	14
6	2HA8	l=211	50 1 20

Acapulco V4.1 Fe500(HA) 10 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

Dessiné le 27/12/99
Béton (B25) = 0.145 m3

8/



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Longrines
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L8
Section 20x60

Acapulco V4.1 Fe500(HA) 16 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

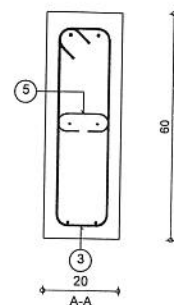
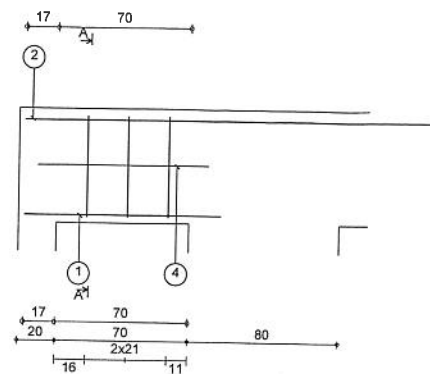
Dessiné le 27/12/99
Béton (B25) = 0.358 m3

9/

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Longrines
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L7
Section 20x60



1	2HA8	l=104	104
2	2HA10	l=260	260
3	3HA8	l=146 es=21	53 14
4	2HA6	l=90	90
5	3HA6	l=29	14

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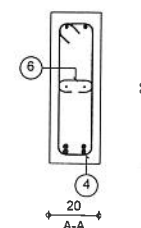
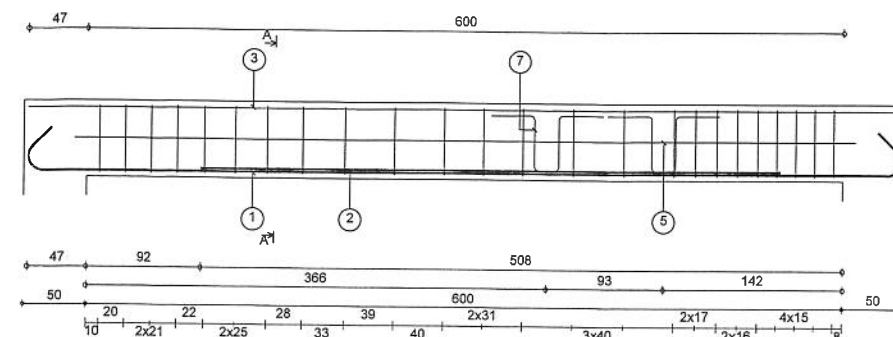
Longrines
OGP Cambrai

L8a
Section 20x60

Acapulco V4.1 Fe500(HA) 6 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

Dessiné le 27/12/99
Béton (B25) = 0.084 m3

10/



1	2HA20	l=762	694
2	2HA20	l=458	458
3	2HA8	l=694	694
4	24HA8	l=146 es=20	53 14
5	2HA6	l=620	620
6	24HA6	l=29	14
7	4HA8	l=179	44 35 20 35 44

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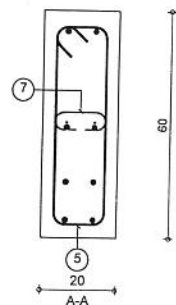
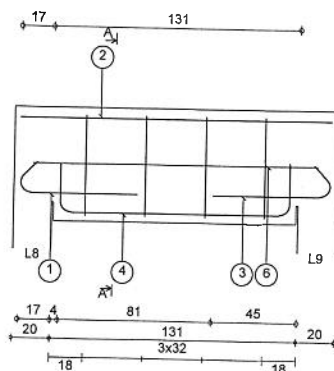
Longrines
OGP Cambrai

L9
Section 20x60

Acapulco V4.1 Fe500(HA) 87 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

Dessiné le 27/12/99
Béton (B25) = 0.720 m3

11/



1	2HA10	l=79	62
2	2HA8	l=164	164
3	2HA10	l=79	62
4	2HA10	l=168	26 122 26
5	4HA8	l=146 es=35	53 14
6	2HA6	l=151	151
7	4HA6	l=29	14

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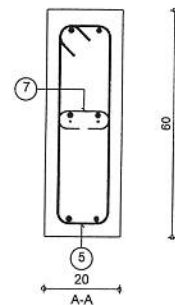
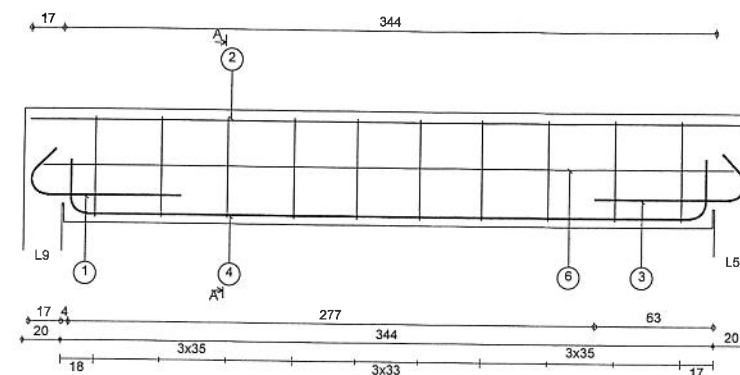
Longrines
OGP Cambrai

L10
Section 20x60

Acapulco V4.1 Fe500(HA) 9 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

Dessiné le 27/12/99
Béton (B25) = 0.157 m3

12/



1	2HA14	l=104	80
2	2HA8	l=378	378
3	2HA14	l=104	80
4	2HA14	l=384	29 336 29
5	10HA8	l=146 es=35	53 14
6	2HA6	l=364	364
7	10HA6	l=29	14

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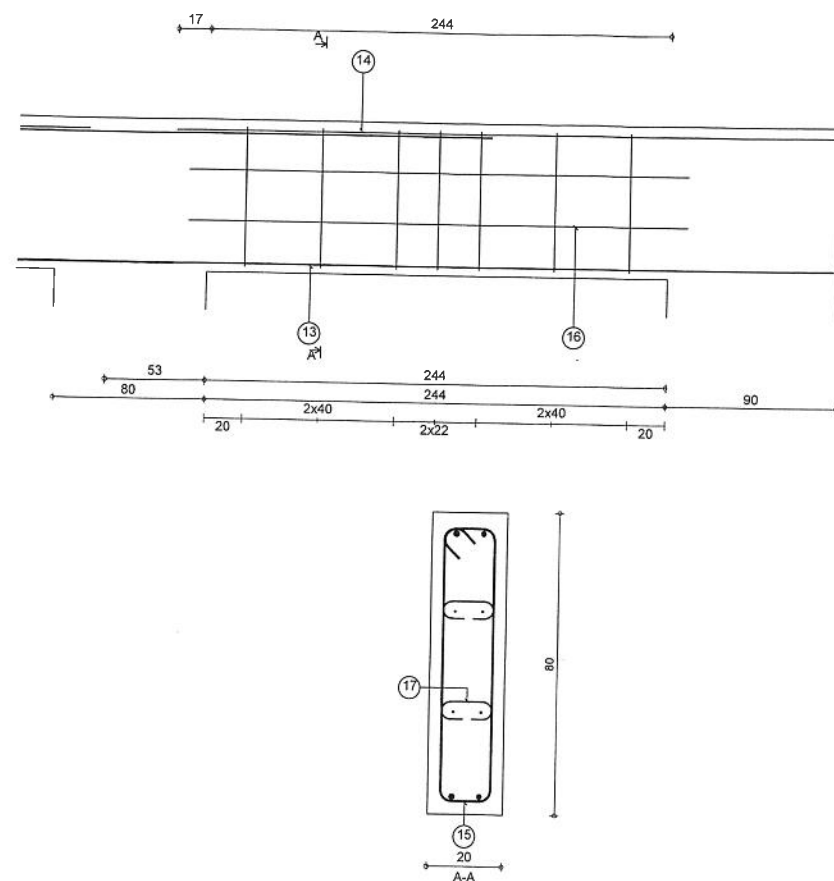
Longrines
OGP Cambrai

L11
Section 20x60

Acapulco V4.1 Fe500(HA) 25 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

Dessiné le 27/12/99
Béton (B25) = 0.413 m3

13/



13	2HA12	l=384	384
14	2HA8	l=348	348
15	7HA8	l=186 es=40	73 14
16	4HA6	l=264	264
17	14HA6	l=29	14

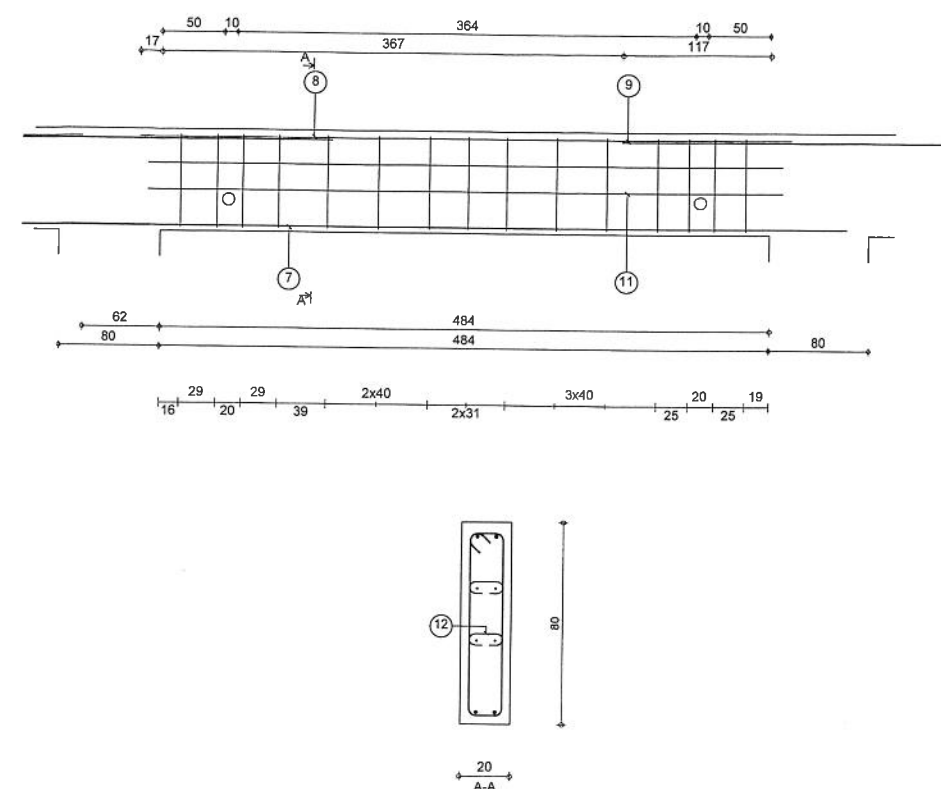
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Longrines
OGP Cambrai

L12
Section 20x80

Acapulco V4.1 Fe500(HA) 18 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.390 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

14/



7	2HA14	l=607	607
8	2HA8	l=518	518
9	2HA12	l=346	346
10	15HA8	l=186 es=32	73 14
11	4HA6	l=504	504
12	30HA6	l=29	14

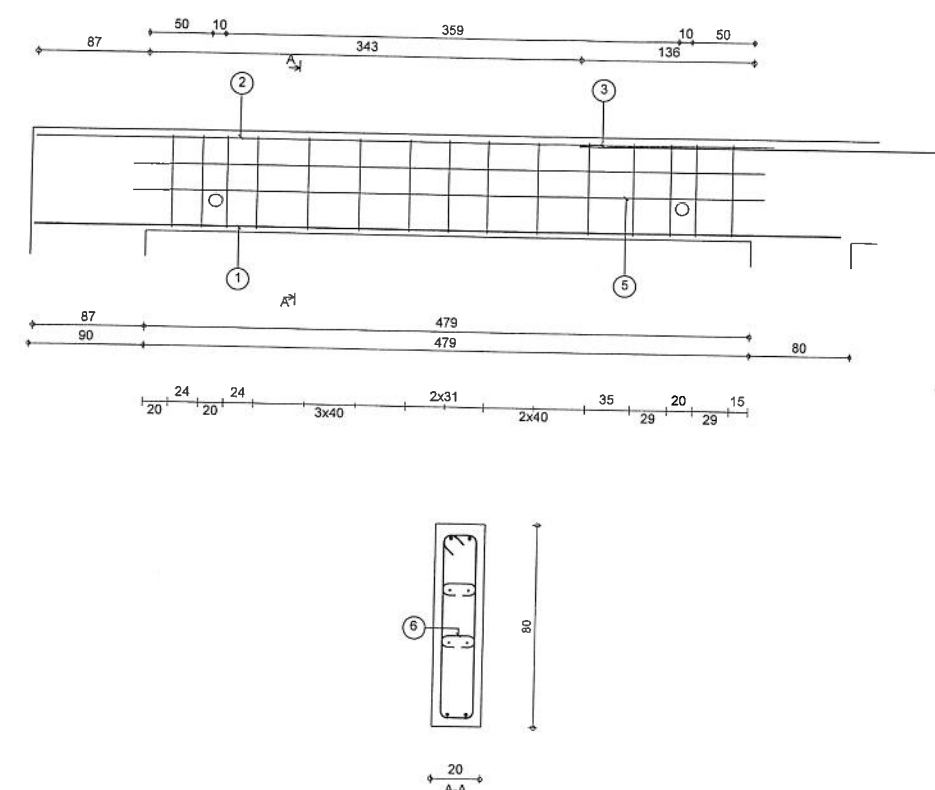
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Longrines
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L13
Section 20x80

Acapulco V4.1 Fe500(HA) 42 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.774 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

15/



1	2HA16	l=636	636
2	2HA8	l=583	583
3	2HA12	l=352	352
4	15HA8	l=186 es=40	73 14
5	4HA6	l=499	499
6	30HA6	l=29	14

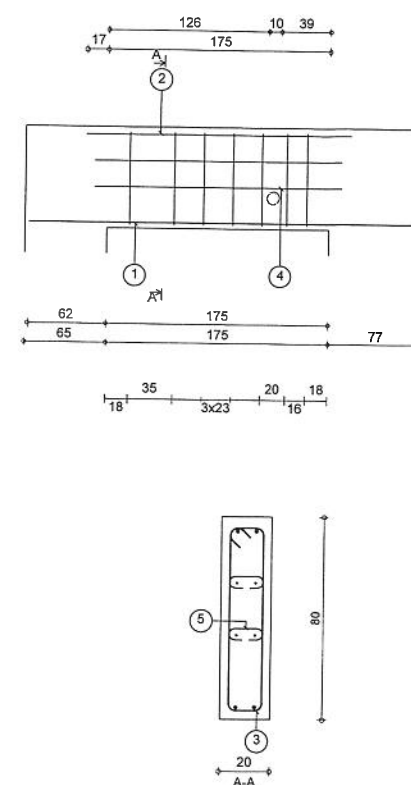
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L14
Section 20x80

Acapulco V4.1 Fe500(HA) 48 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.766 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

16/



1	2HA12	l=311	311
2	2HA8	l=209	209
3	7HA8	l=186 es=35	73 14
4	4HA6	l=195	195
5	14HA6	l=29	14

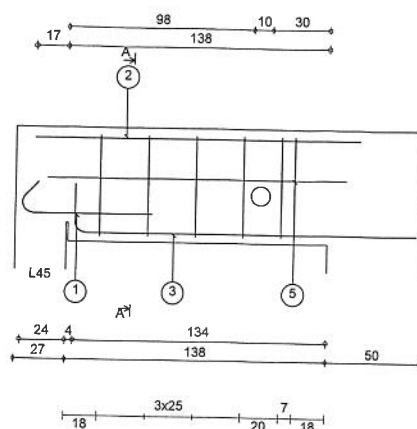
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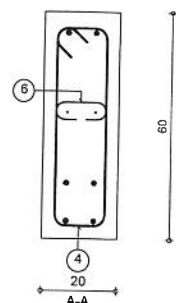
L15
Section 20x80

Acapulco V4.1 Fe500(HA) 15 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.280 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

17/



1	2HA10	l=86	69
2	2HA8	l=172	172
3	2HA10	l=204	26 181
4	6HA8	l=146 es=35	53 14
5	2HA6	l=158	158
6	6HA6	l=29	14

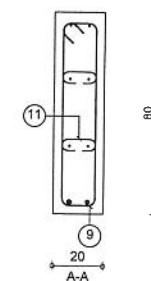
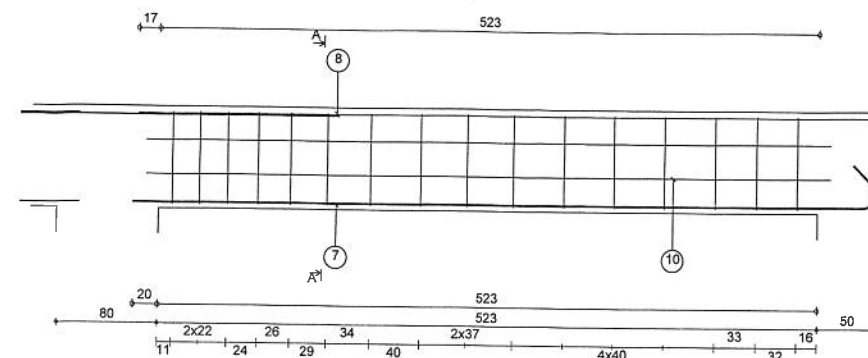


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Longrines
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L16
Section 20x60

Acapulco V4.1 Fe500(HA) 9 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.166 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10 16/

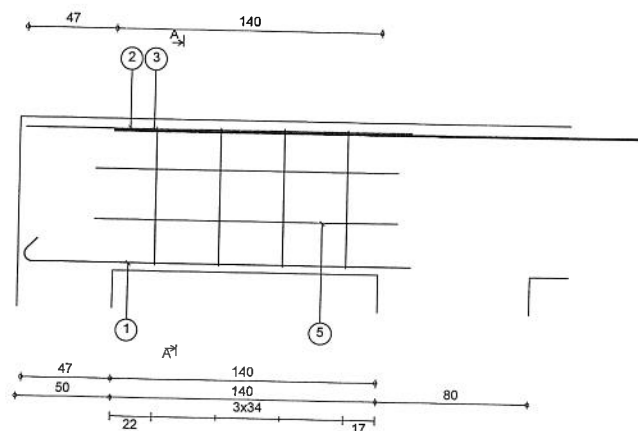


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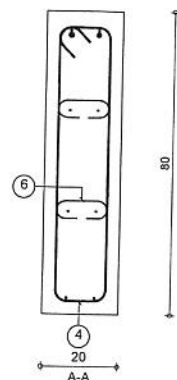
Longrines
OGP Cambrai

L17
Section 20x80

Acapulco V4.1 Fe500(HA) 54 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.837 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15 19/



1	2HA8	l=217	204
2	2HA8	l=204	204
3	2HA16	l=362	362
4	4HA8	l=186 es=34	73 14
5	4HA6	l=160	160
6	8HA6	l=29	14

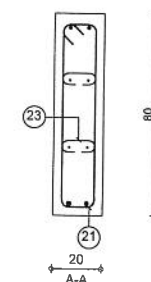
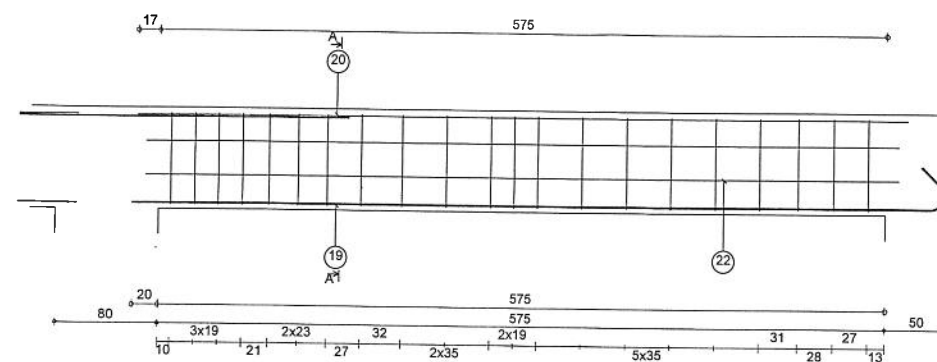


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L18
Section 20x80

Acapulco V4.1 Fe500(HA) 20 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.224 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10 20/

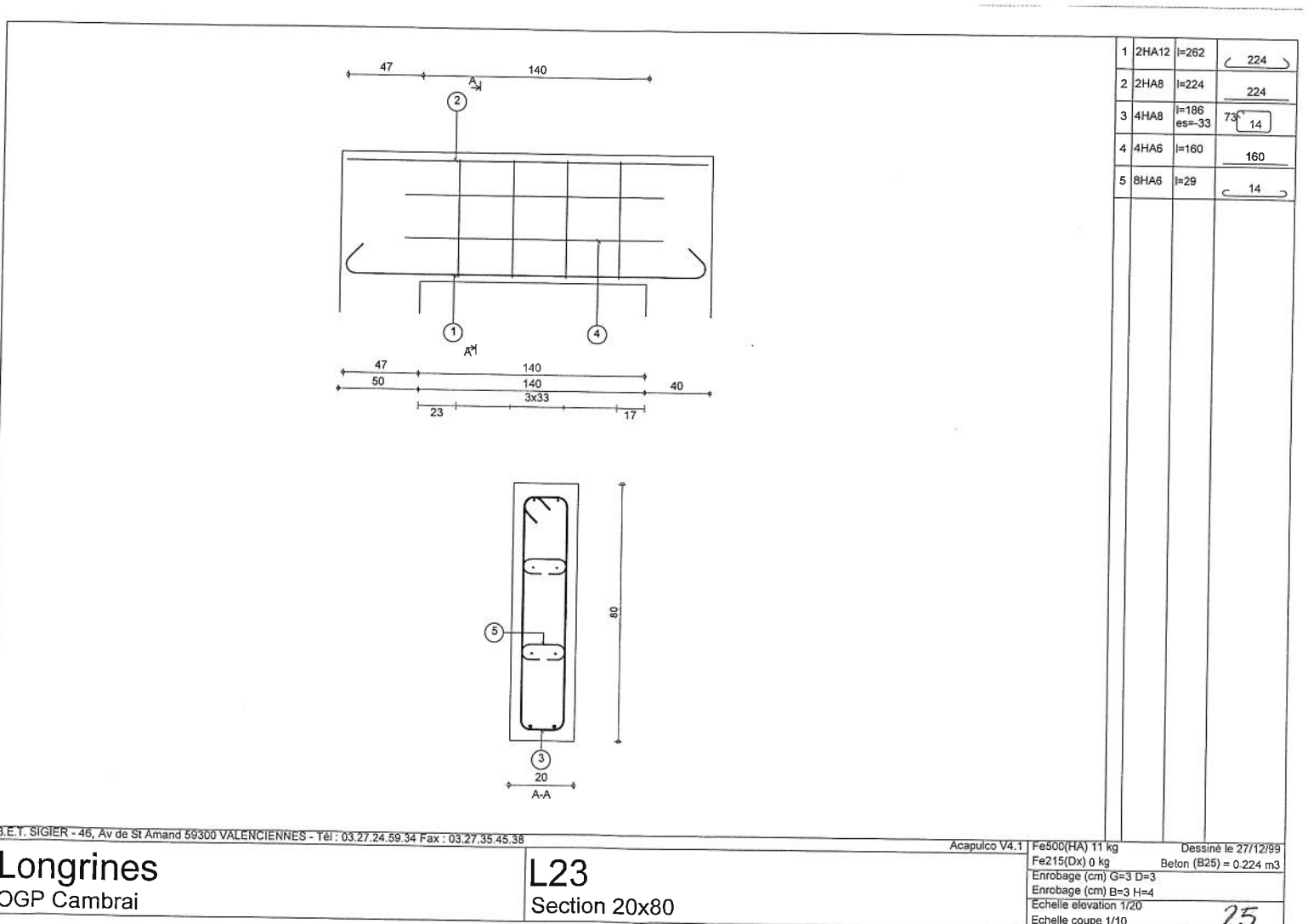
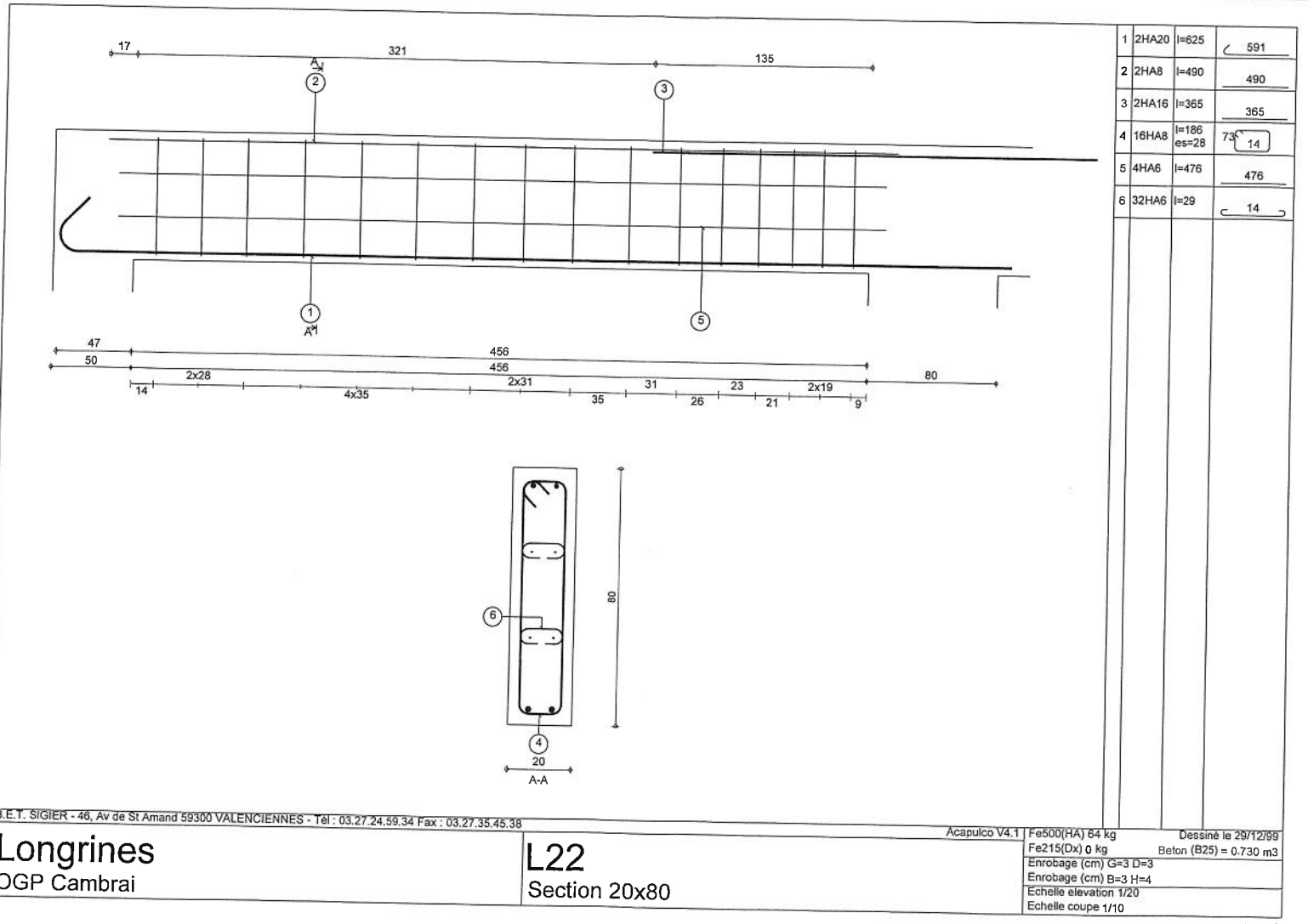
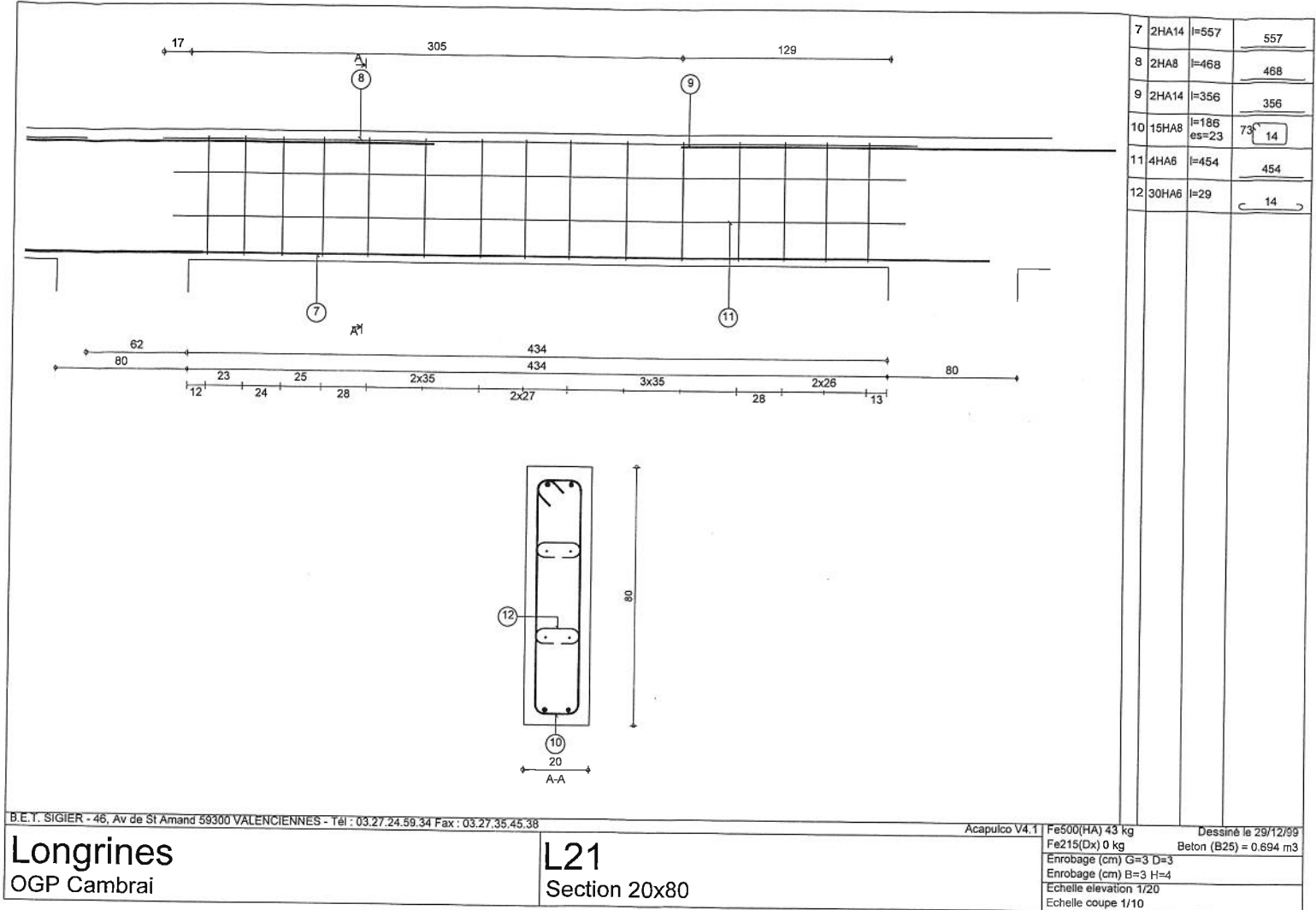
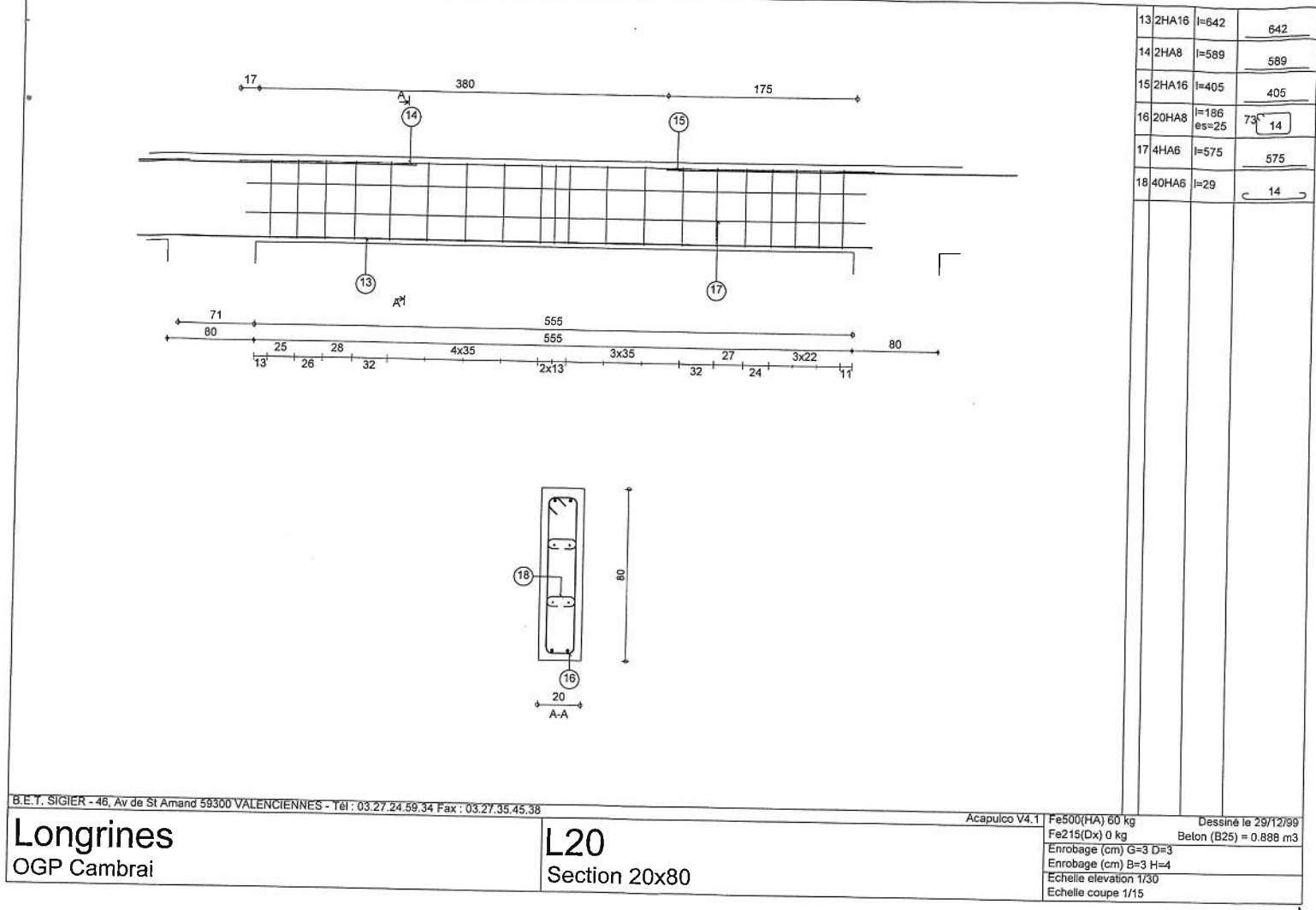


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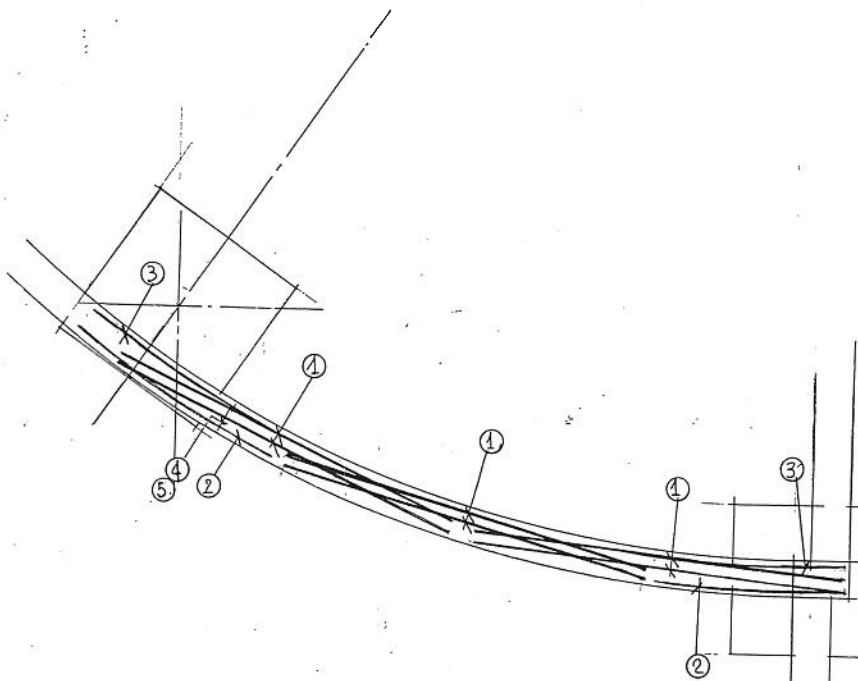
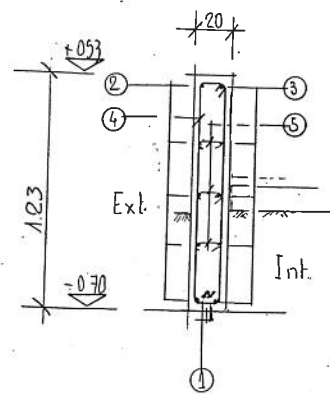
Longrines
OGP Cambrai

L19
Section 20x80

Acapulco V4.1 Fe500(HA) 62 kg Dessiné le 29/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.920 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15



Coupe



1	3x2 HA10	L=80	
2	5HA8	L=420	
3	5HA8	L=420	
4	5HA8	e=20	
5	3x6 HA6	e=50 L=0.25	

Fe500(HA) 44,54 kg
Fe235(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=3
Echelle elevation 1/25
Echelle coupe 1/25

Dessiné le 9/12/99

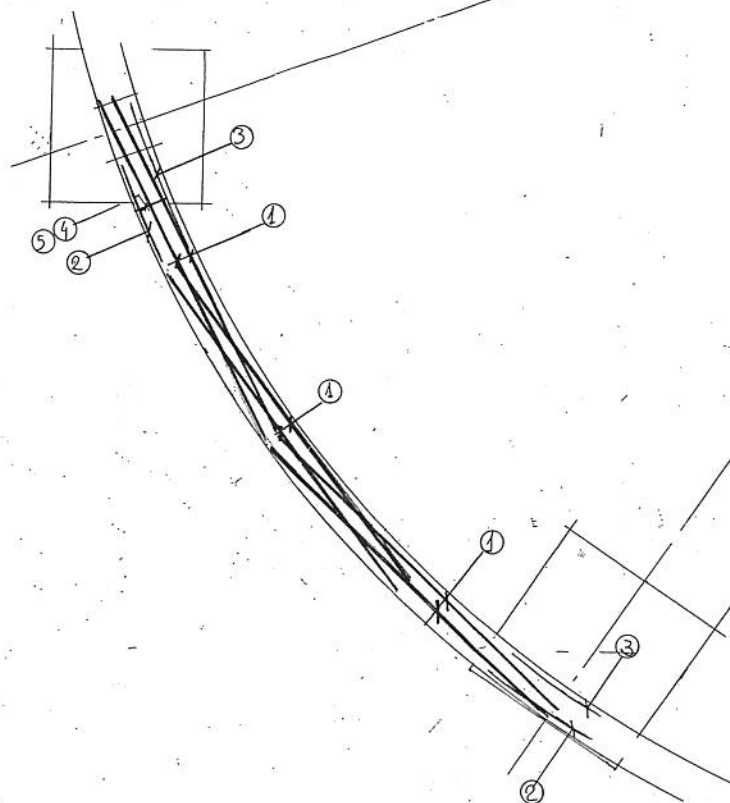
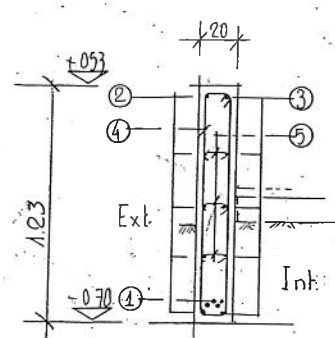
5

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OGP Cambrai

L24

Coupe



1	3x2 HA10	L=200	
2	5HA8	L=420	4.20
3	5HA8	L=420	4.20
4	5HA8	e=20 L=2.75	
5	3x7HA6	e=50 L=0.25	

Fe500(HA) 44,54 kg
Fe235(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=3
Echelle elevation 1/25
Echelle coupe 1/25

Dessiné le 9/12/99

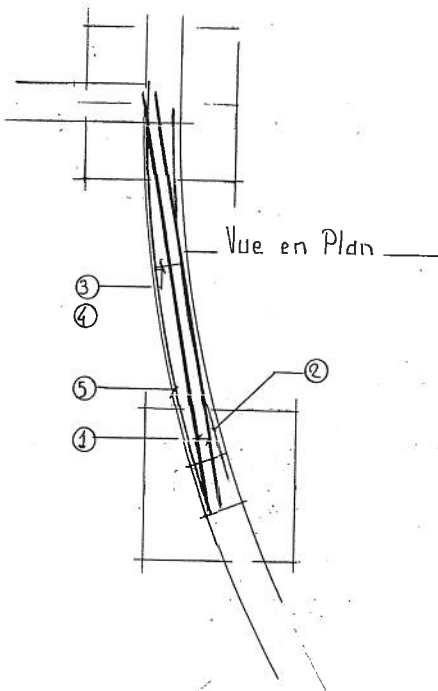
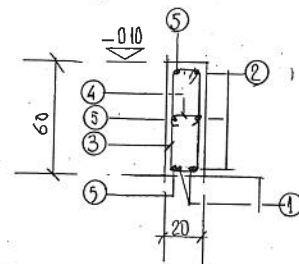
5

271

OGP Cambrai

L25

L26
Coupe



1	2HA10	L=220	2.20
2	3HA8	L=200	2.00
3	6HA8	e=20 L=1.50	1.50
4	4HA6	e=40 L=0.25	0.25
5	3HA8	2.10	2.10

Fe500(HA) 12,74 kg
Fe235(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=3
Echelle elevation 1/25
Echelle coupe 1/25

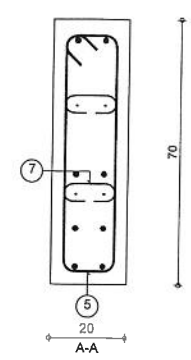
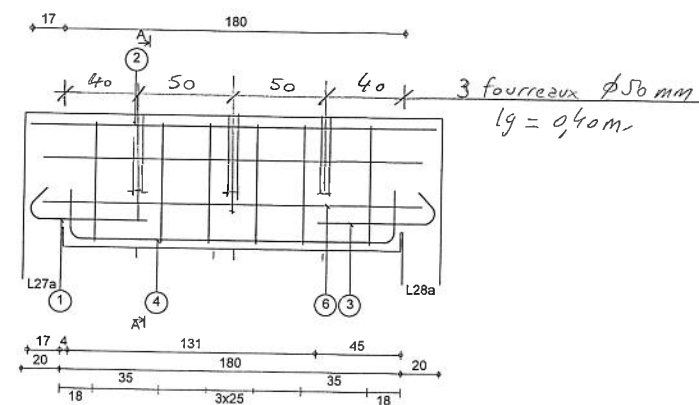
Dessiné le 9/12/99

5

261

OGP Cambrai

L26



1	2HA10	l=79	62
2	2HA8	l=214	214
3	2HA10	l=79	62
4	2HA10	l=217	217
5	6HA8	l=166 es=35	63
6	4HA6	l=200	200
7	12HA6	l=29	14

Fe500(HA) 13 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

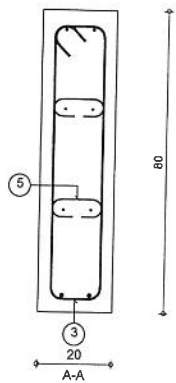
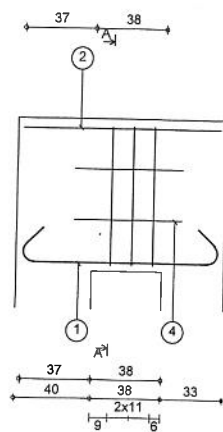
Dessiné le 27/12/99

5

291

Longrines
OGP Cambrai

L29
Section 20x70



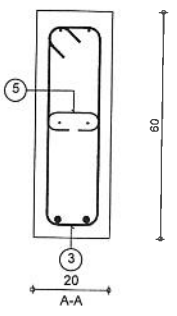
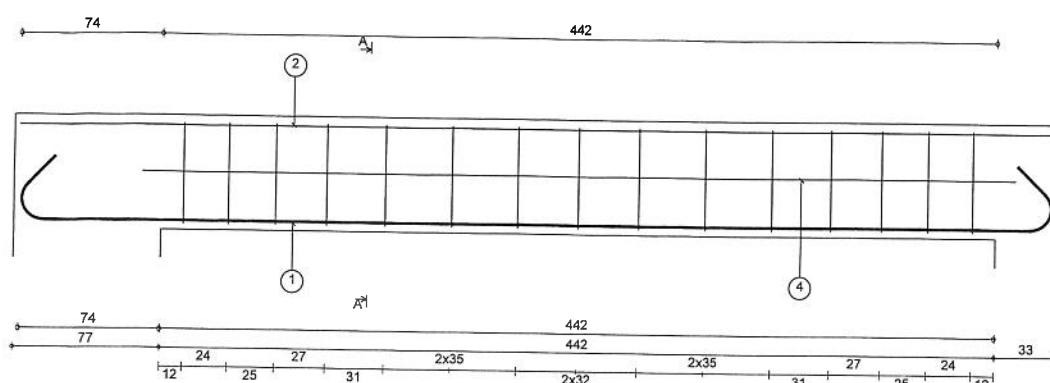
1	2HA12	l=142	105
2	2HA8	l=105	105
3	3HA8	l=186 es=-11	73 14
4	4HA6	l=57	57
5	6HA6	l=29	14

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Longrines
OGP Cambrai

L30
Section 20x80

Acapulco V4.1 Fe500(HA) 6 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10
Dessiné le 27/12/99
Beton (B25) = 0.060 m3
30/



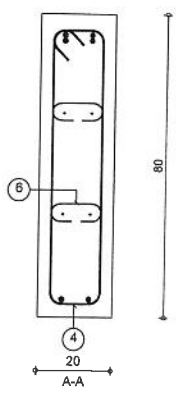
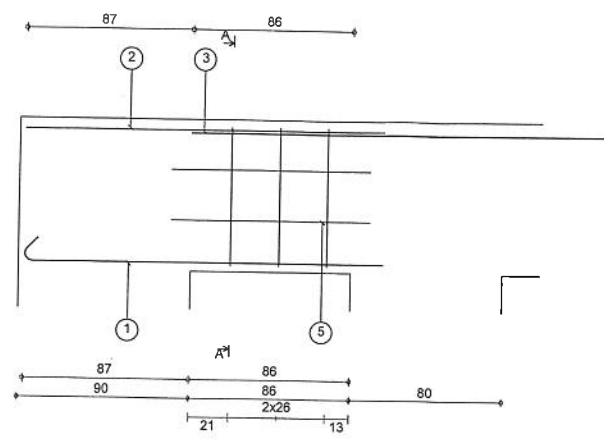
1	2HA20	l=614	546
2	2HA8	l=546	546
3	15HA8	l=146 es=-24	53 14
4	2HA6	l=462	462
5	15HA6	l=29	14

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Longrines
OGP Cambrai

L31
Section 20x60

Acapulco V4.1 Fe500(HA) 46 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10
Dessiné le 27/12/99
Beton (B25) = 0.530 m3
31/



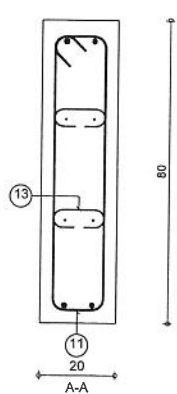
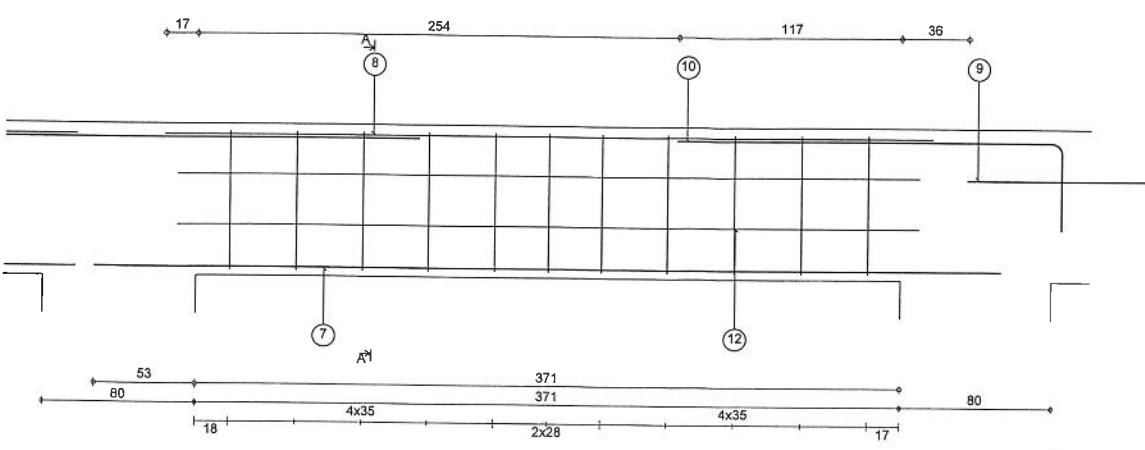
1	2HA8	l=202	190
2	2HA8	l=190	190
3	2HA12	l=282	282
4	3HA8	l=186 es=-26	73 14
5	4HA6	l=106	106
6	6HA6	l=29	14

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Longrines
OGP Cambrai

L32
Section 20x80

Acapulco V4.1 Fe500(HA) 12 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10
Dessiné le 27/12/99
Beton (B25) = 0.137 m3
32/



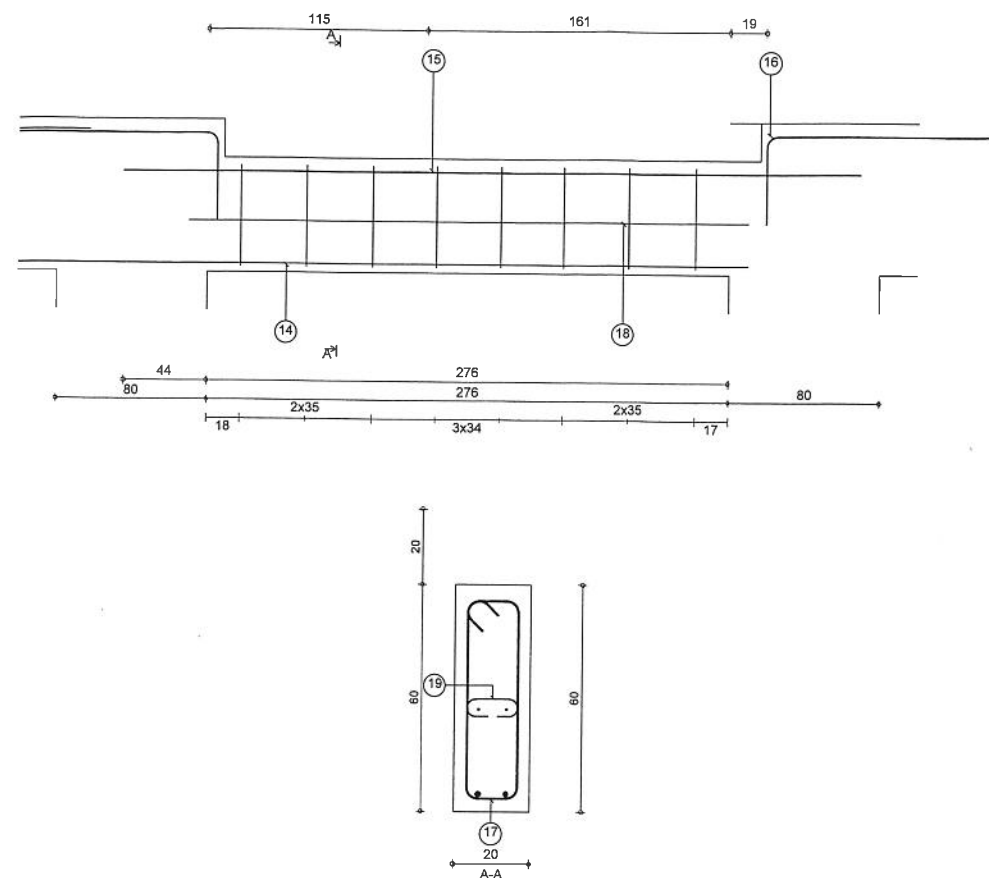
7	2HA12	l=477	477
8	2HA8	l=405	405
9	2HA12	l=177	177
10	2HA12	l=245	46 202
11	11HA8	l=186 es=-35	73 14
12	4HA6	l=391	391
13	22HA6	l=29	14

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Longrines
OGP Cambrai

L33
Section 20x80

Acapulco V4.1 Fe500(HA) 32 kg
Fe215(Dx) 0 kg
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10
Dessiné le 27/12/99
Beton (B25) = 0.594 m3
33/



14	2HA10	l=330	330
15	2HA12	l=230	230
16	2HA12	l=228	46 185
17	8HA8	l=146 es=35	53 14
18	2HA6	l=296	296
19	8HA8	l=29	14

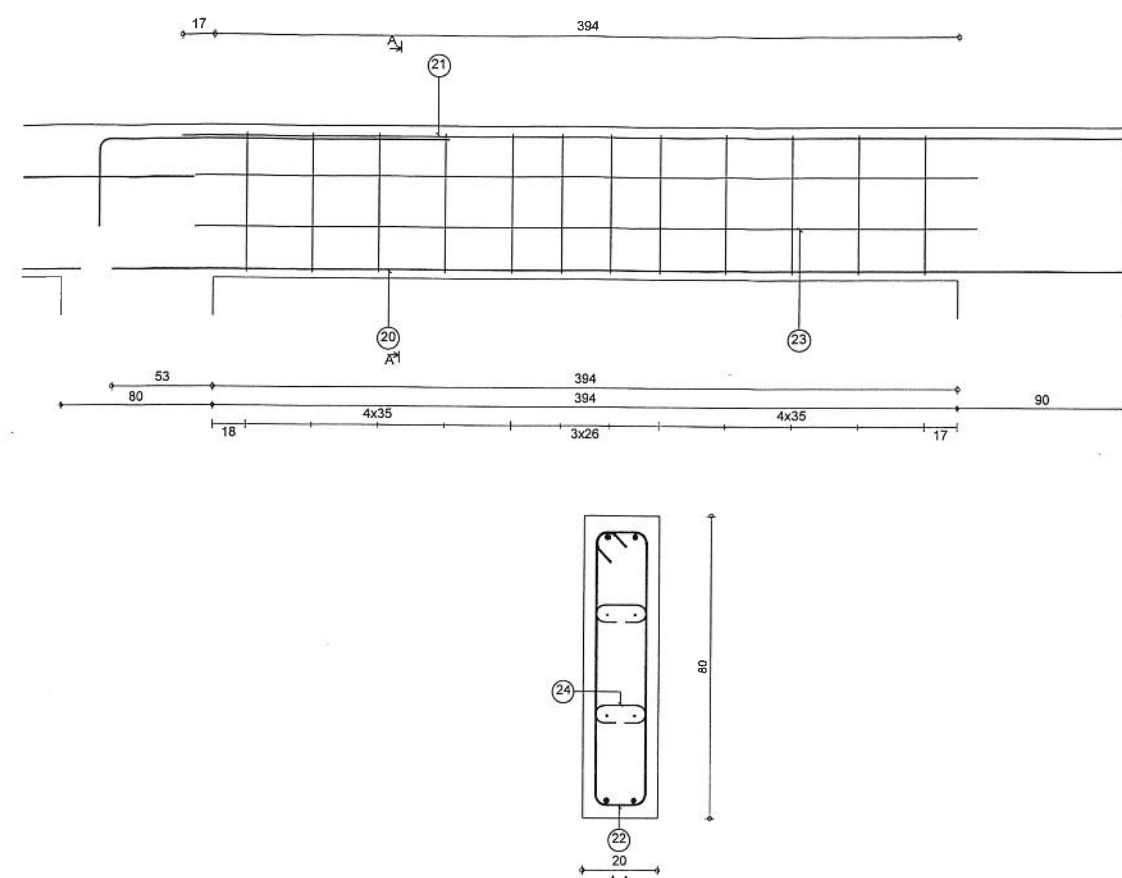
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Longrines
OGP Cambrai

L34
Section 20x80

Acapulco V4.1 Fe500(HA) 19 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.442 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

34/



20	2HA12	l=533	533
21	2HA8	l=497	497
22	12HA8	l=186 es=35	73 14
23	4HA6	l=414	414
24	24HA6	l=29	14

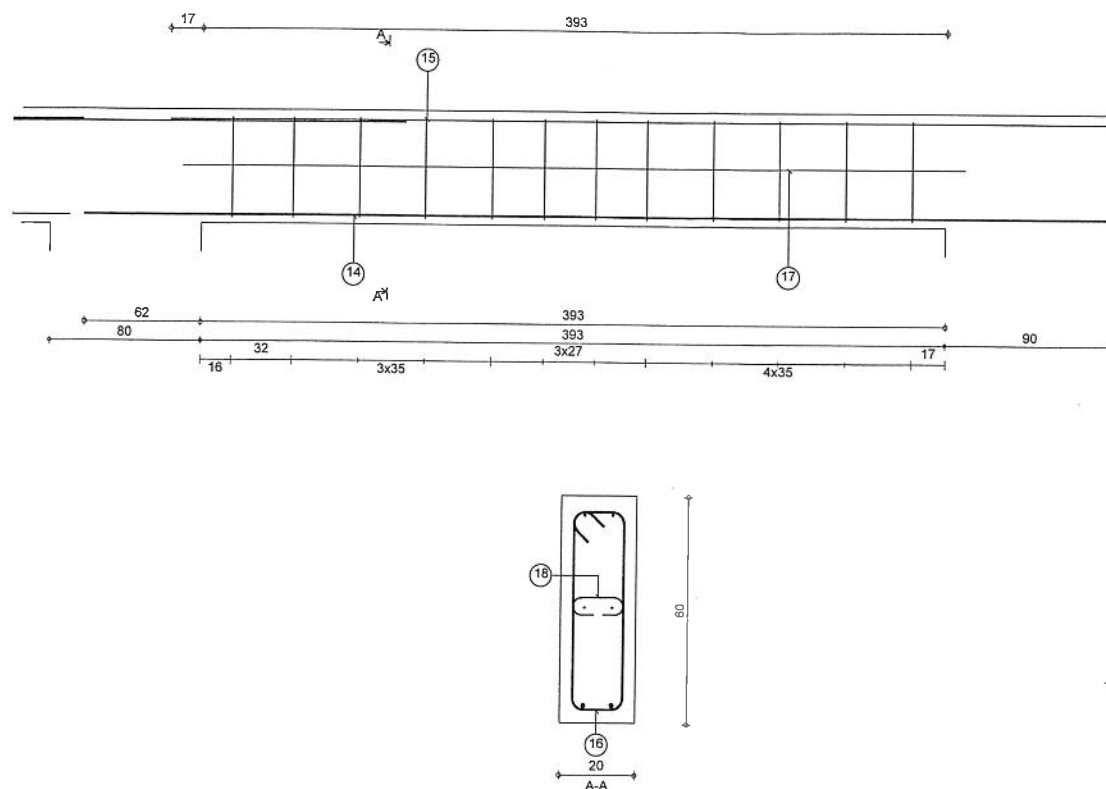
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Longrines
OGP Cambrai

L35
Section 20x80

Acapulco V4.1 Fe500(HA) 27 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.630 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

35/



14	2HA14	l=541	541
15	2HA8	l=497	497
16	12HA8	l=146 es=32	53 14
17	2HA6	l=413	413
18	12HA6	l=29	14

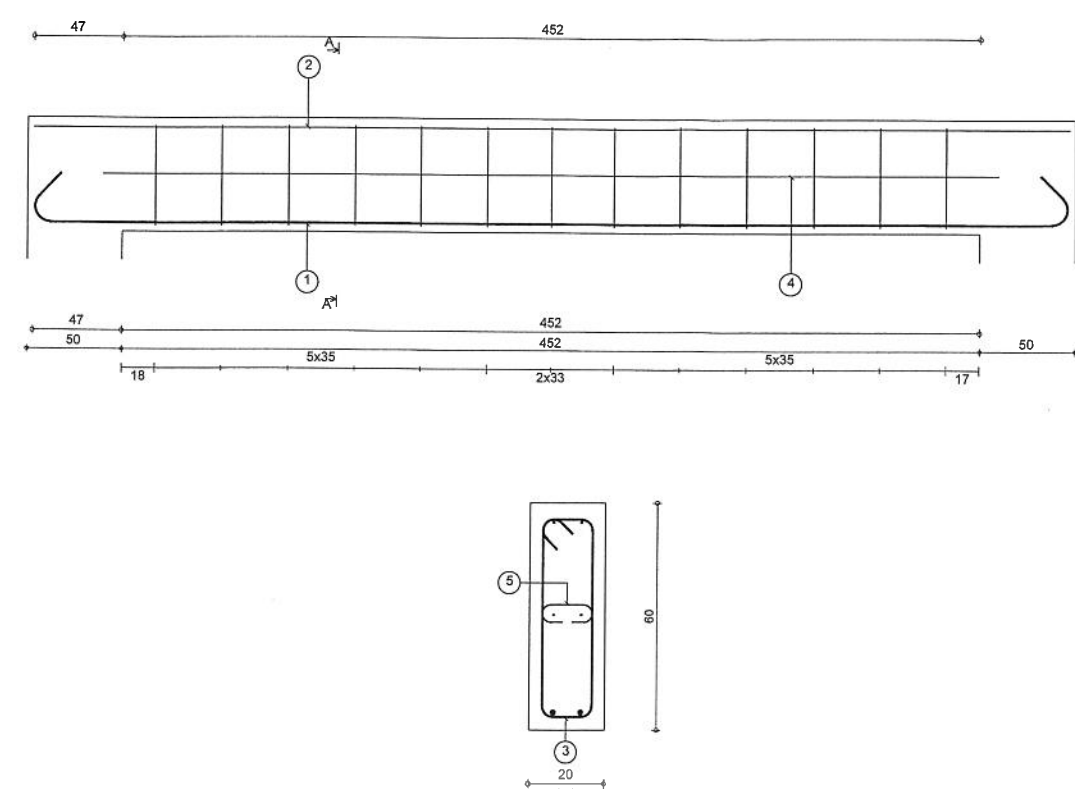
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Longrines
OGP Cambrai

L36
Section 20x60

Acapulco V4.1 Fe500(HA) 27 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.471 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

36/



1	2HA16	l=599	546
2	2HA8	l=546	546
3	13HA8	l=146 es=35	53 14
4	2HA6	l=472	472
5	13HA6	l=29	14

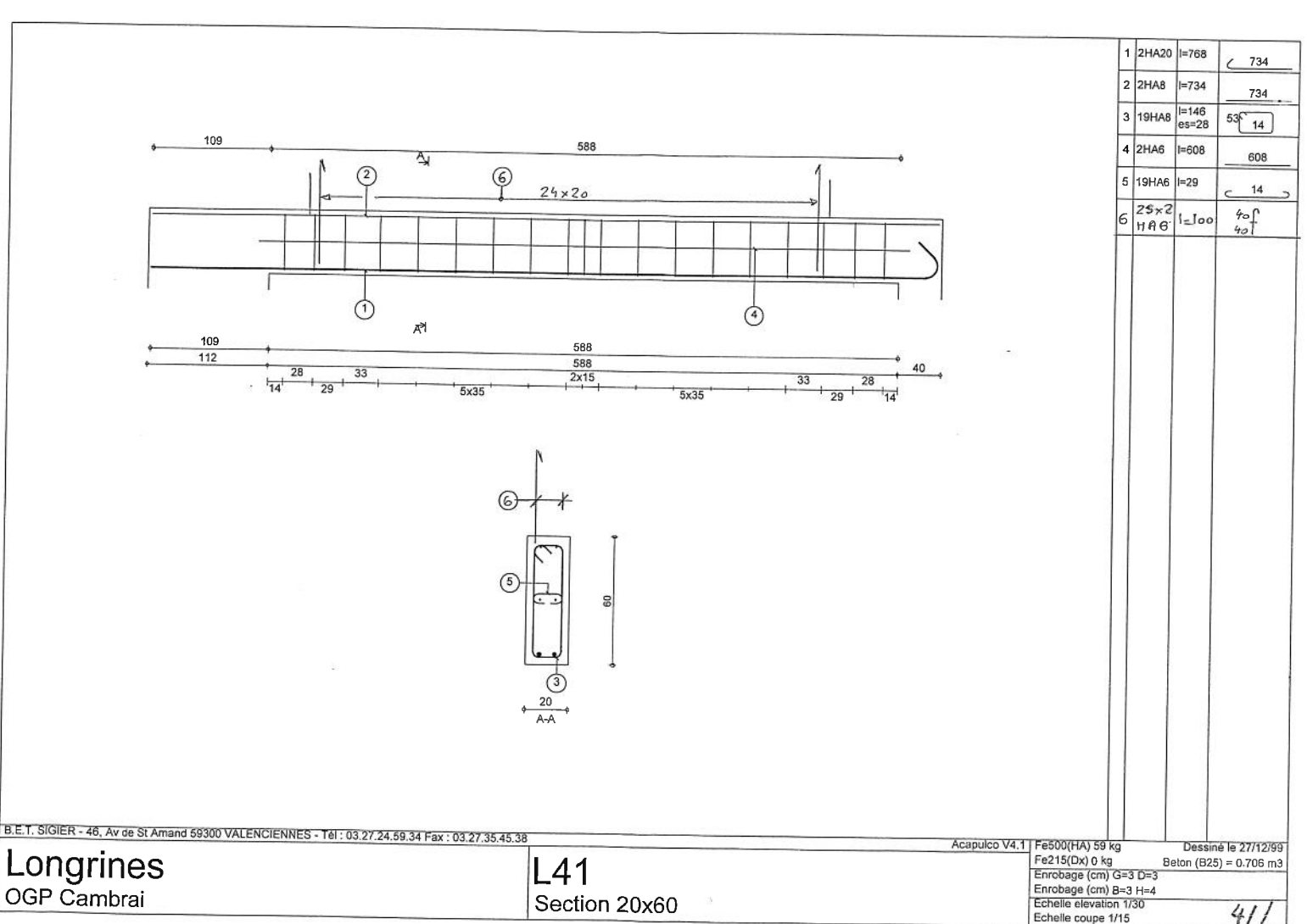
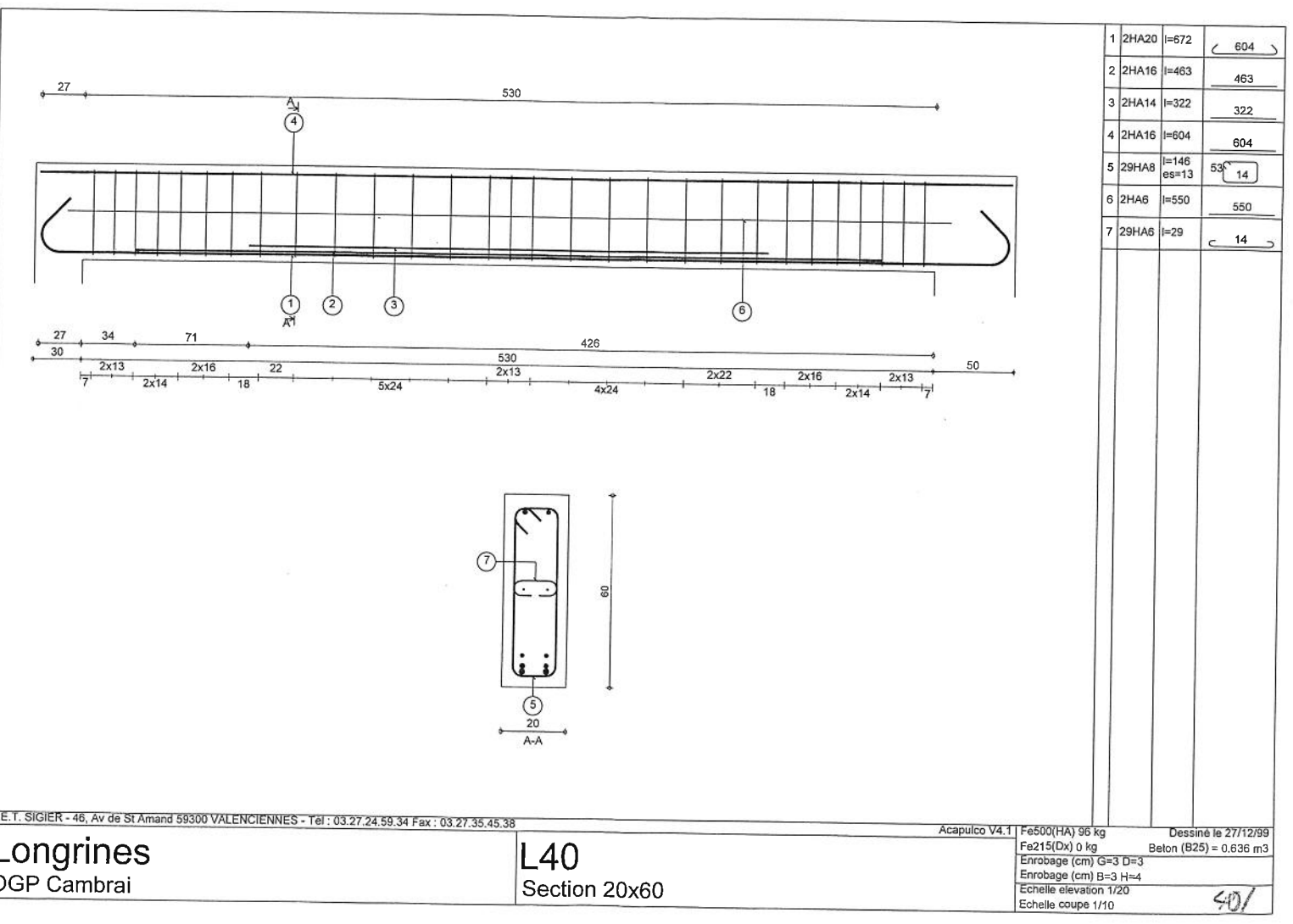
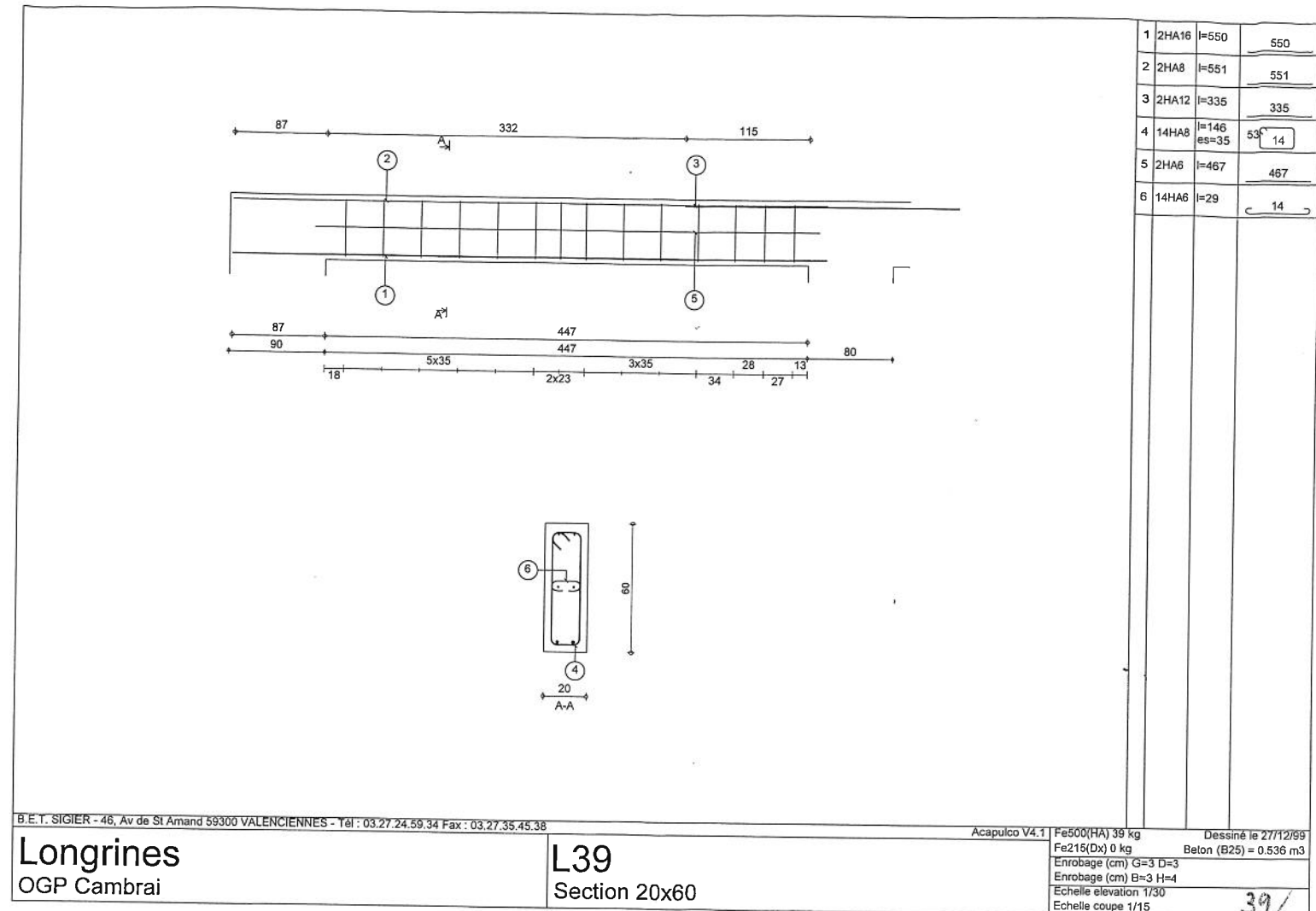
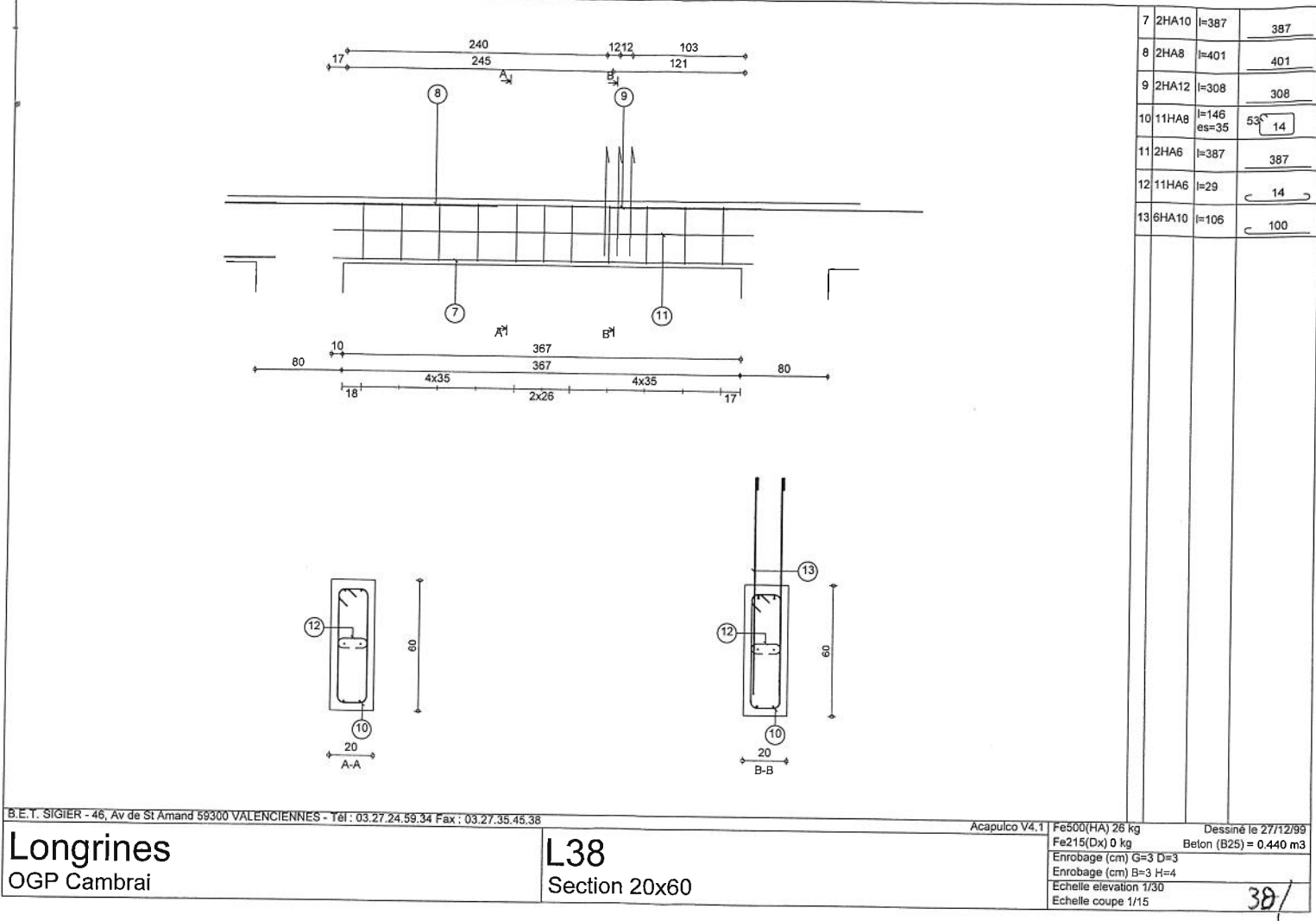
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Longrines
OGP Cambrai

L37
Section 20x60

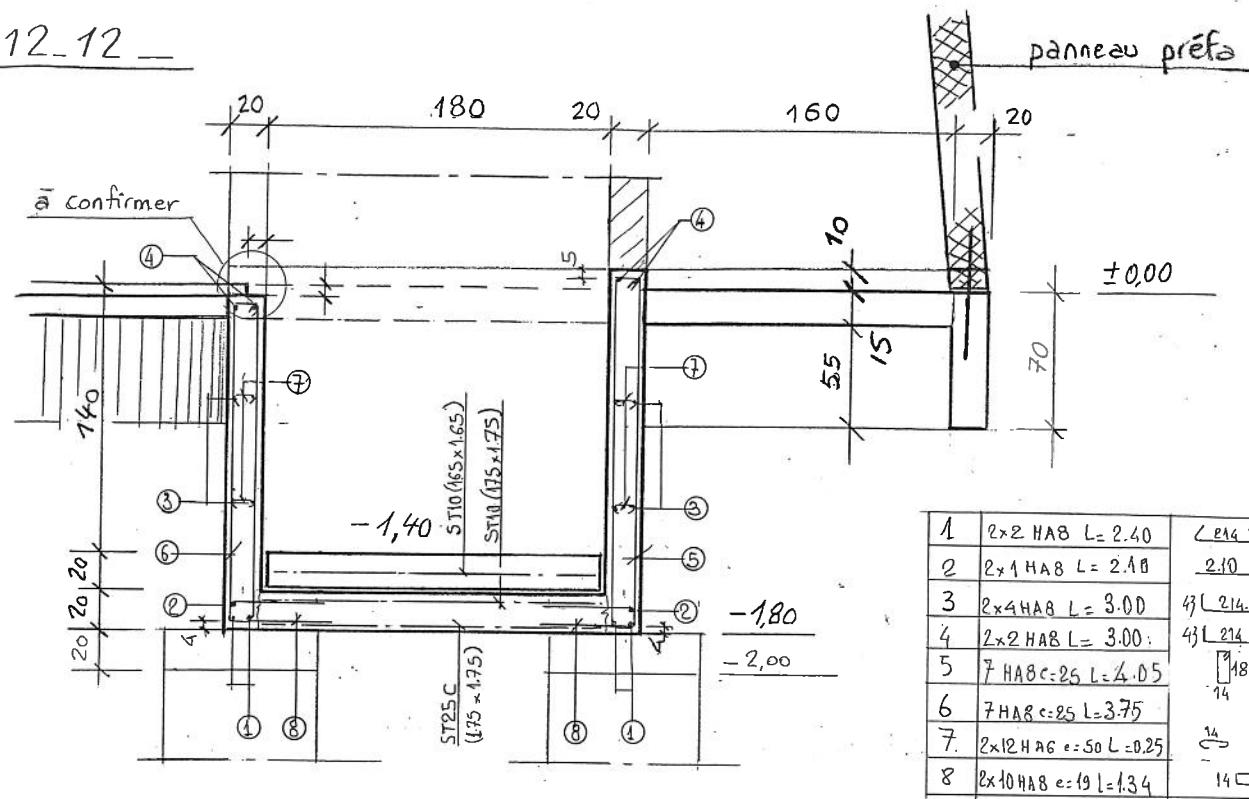
Acapulco V4.1 Fe500(HA) 34 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.542 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

37/



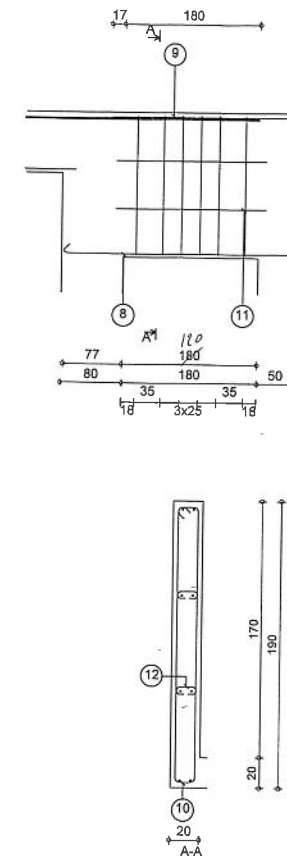
45/

12-12



Coupe 12-12

46/

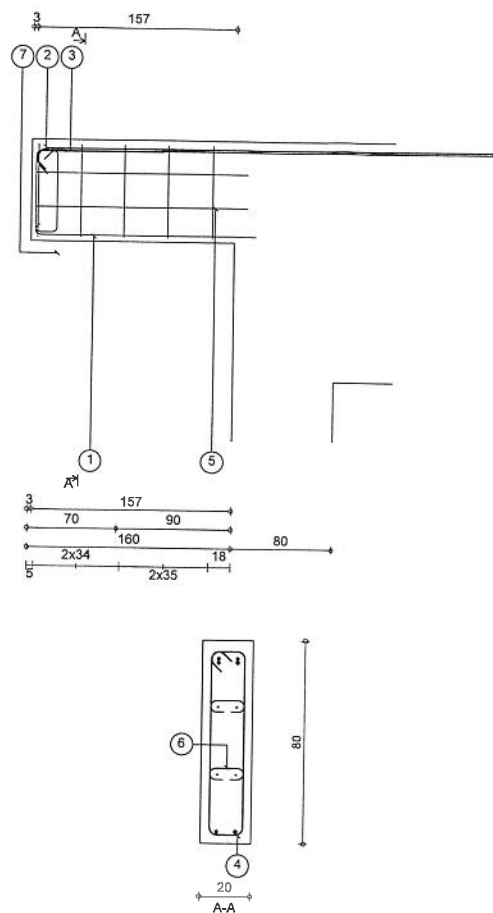


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Longrines
OGP Cambrai

L27
Section 20x190

Acapulco V4.1 Fe500(HA) 17 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.684 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/50
Echelle coupe 1/25

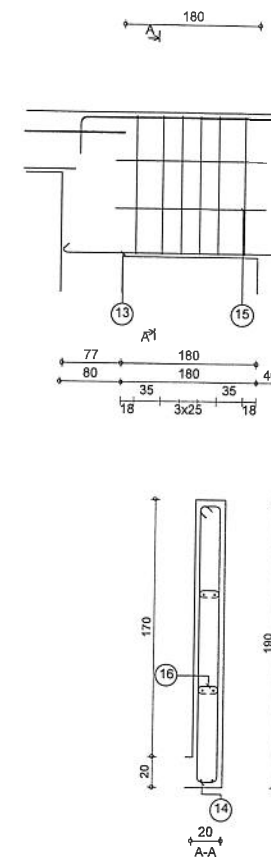


Acapulco V4.1 Fe500(HA) 30 kg Dessiné le 27/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.266 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

Longrines
OGP Cambrai

L27a
Section 20x80

46/



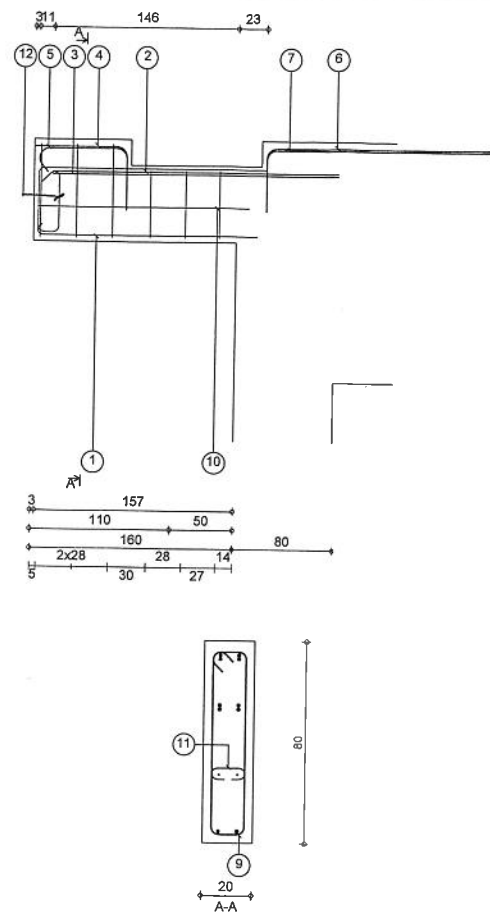
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Longrines
OGP Cambrai

L28
Section 20x190

Acapulco V4.1 Fe500(HA) 15 kg Dessiné le 29/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.684 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/50
Echelle coupe 1/25

49/



1	2HA6	l=182	7	174
2	2HA14	l=228		228
3	2HA14	l=228		228
4	2HA14	l=117	49	73
5	2HA14	l=131	16	70
6	2HA14	l=339	23	271
7	2HA14	l=325	9	271
8	3HA8	l=146 es=-27	53	14
9	3HA8	l=186 es=-30	73	14
10	2HA6	l=167		167
11	6HA6	l=29		14
12	2HA10	l=324	31	48

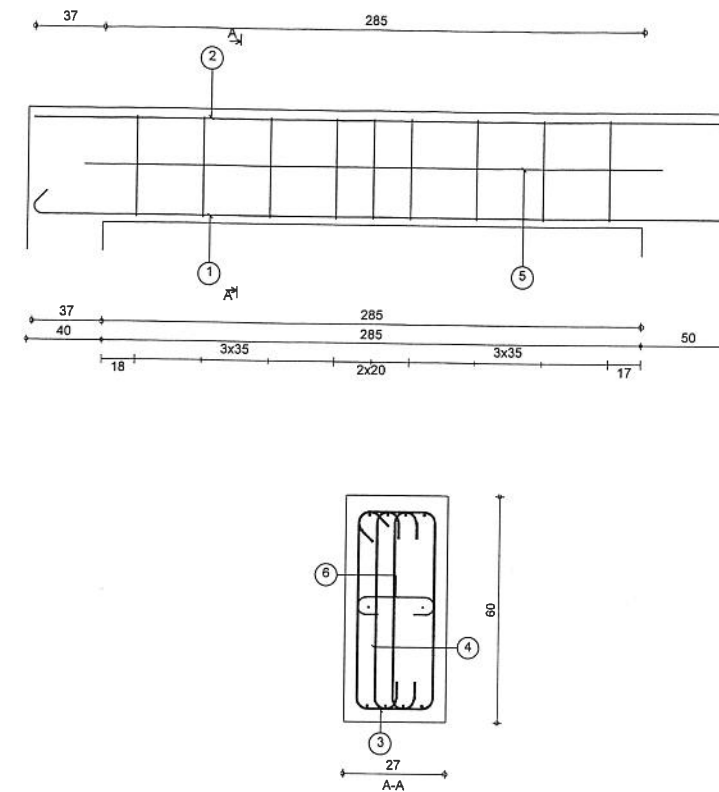
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Longrines
OGP Cambrai

L28a
Section 20x80

Acapulco V4.1 Fe500(HA) 43 kg Dessiné le 29/12/99
Fe215(Dx) 0 kg Béton (B25) = 0.256 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/30
Echelle coupe 1/15

50/



1	4HA8	l=382		369
2	4HA8	l=369		369
3	9HA8	l=160 es=35	53	21
4	18HA8	l=73		53
5	2HA6	l=305		305
6	9HA6	l=36		21

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Longrines
OGP Cambrai

L45
Section 27x60

Acapulco V4.1 Fe500(HA) 25 kg Dessiné le 27/1/100
Fe215(Dx) 0 kg Béton (B25) = 0.462 m3
Enrobage (cm) G=3 D=3
Enrobage (cm) B=3 H=4
Echelle elevation 1/20
Echelle coupe 1/10

05