

REPUBLIQUE DU CAMEROUN

PAIX-TRAVAIL-PATRIE



REPUBLIC OF CAMEROON

PEACE-WORK-FATHERLAND

PROJET :
ETUDES ARCHITECTURALES ET TECHNIQUES EN VUE DE LA CONSTRUCTION DE
LA DELEGATION DEPARTEMENTALE DU MINH DU DES BAMBOUTOS



MAITRE D'OUVRAGE :

**MINISTERE DE L'HABITAT ET DU
DEVELOPPEMENT URBAIN**



BUREAU D'ETUDE :

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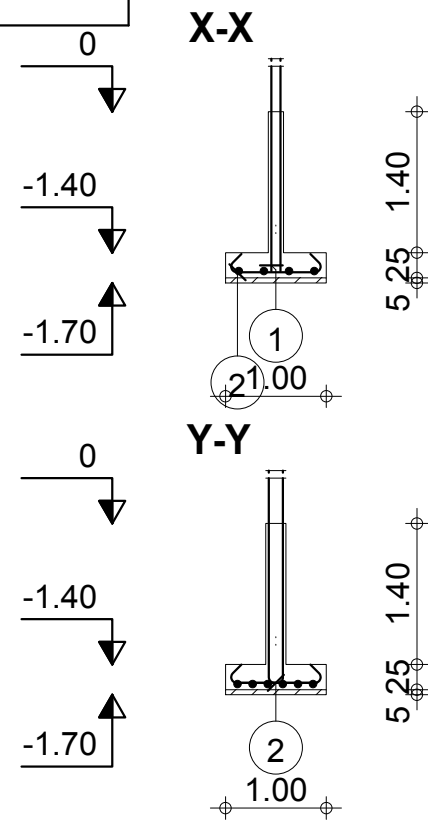
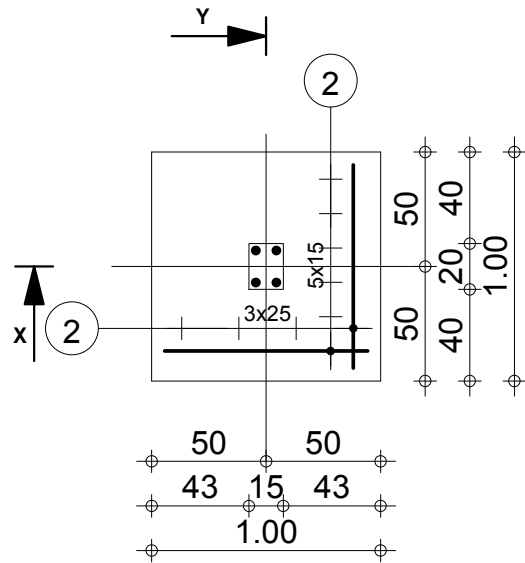
FERAILLAGE

| | |
|---------------------------|-------------|
| Date : | 19/11/2016 |
| Echelle pour la vue : | 1/25 ; 1/50 |
| Echelle pour la section : | 1/10 |

| Indices | Modifications | Dates | Phases | |
|---------|---------------|-------|--------|--------------|
| | | | | |
| | | | APS | |
| | | | APD | |
| | | | PEO | |
| | | | DAO | |

SEMELLES

MINHDU-BAMBOUTOS_Semelles



| Pos. | Armature | Code | Forme |
|------|---------------------|------|-------|
| ① | 4HA 12 l=2.54 | 00 | |
| ② | 10HA 12 l=1.28 | 00 | |

Tél.
Fax

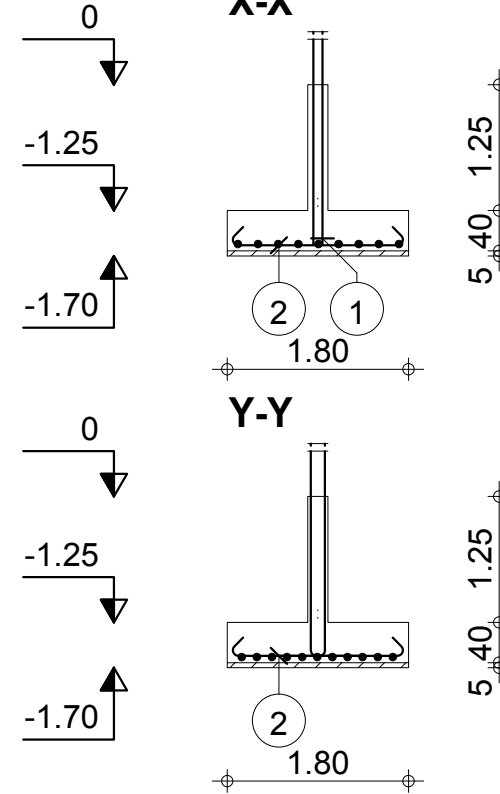
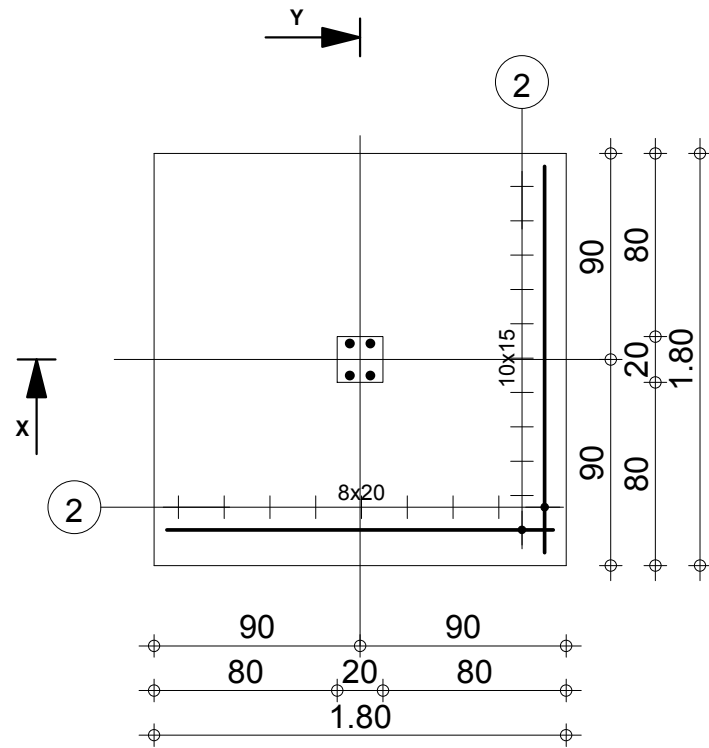
Echelle pour la vue 1:33
Echelle pour la section 1:75

S1

Enrobage 5 cm
Page 1/3

Béton : BETON20 = 0.292 m3
Acier HA 400 = 20.4 kg

MINHDU-BAMBOUTOS_Semelles



| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 4HA 12 | l=2.54 | 00 |
| ② | 20HA 12 | l=2.08 | 00 |

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:75

S3

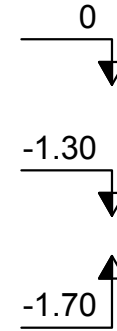
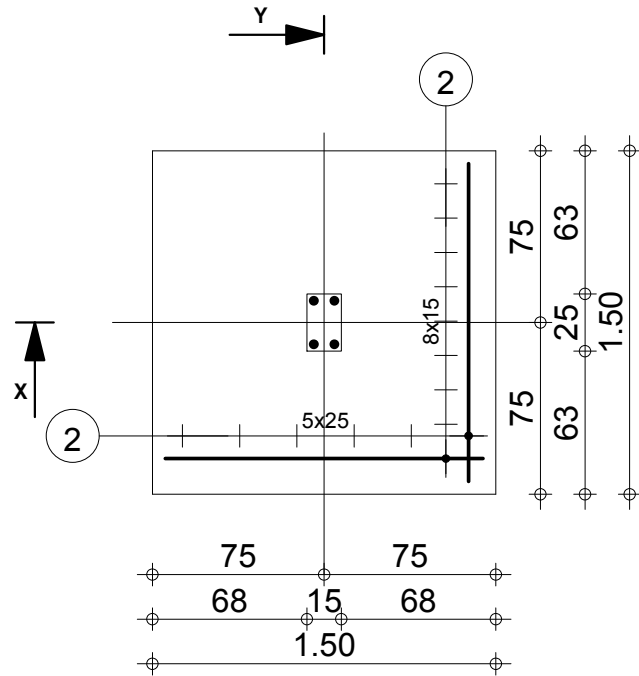
Enrobage 5 cm

Page 2/3

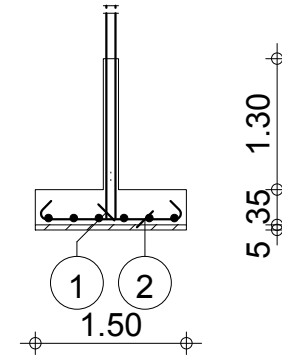
Béton : BETON20 = 1.35 m³

Acier HA 400 = 45.9 kg

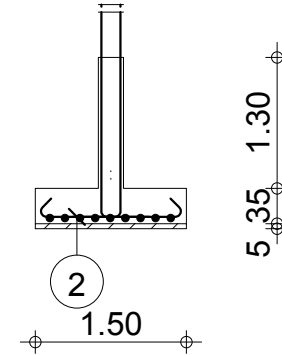
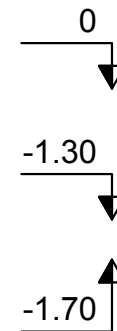
MINHDU-BAMBOUTOS_Semelles



X-X



Y-Y



| Pos. | Armature | Code | Forme |
|------|-------------------|------|-------|
| ① | 4HA 12 l=2.54 | 00 | |
| ② | 15HA 12 l=1.78 | 00 | |

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:75

S2

Enrobage 5 cm

Page 3/3


Béton : BETON20 = 0.836 m³

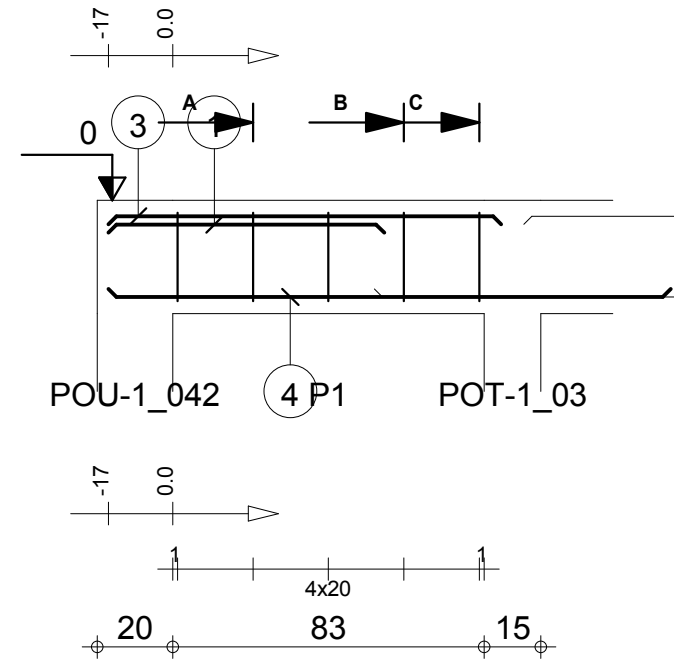
Acier HA 400 = 32.7 kg

LONGRINES

-1

MINHDU_BAMBOUTOS_POUTRES

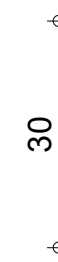
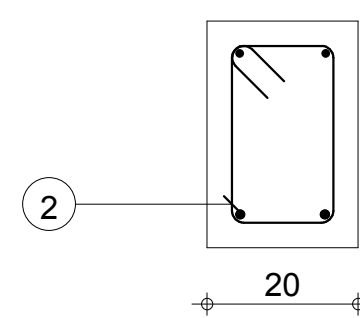
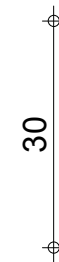
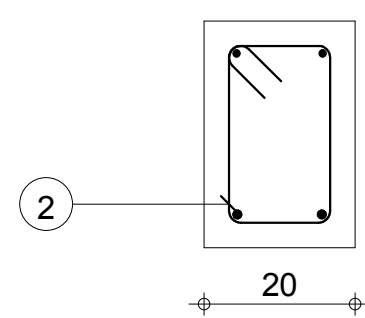
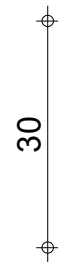
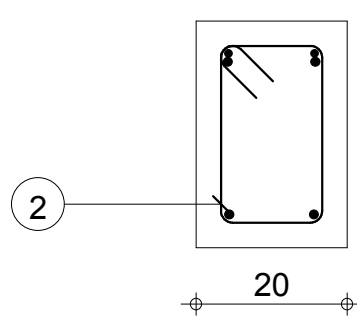
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=73 | 00 | 73 |
| ② | 5HA 6 | l=88 | 31 |  |
| ③ | 2HA 10 | l=1.04 | 00 | 1.04 |
| ④ | 2HA 12 | l=1.49 | 00 | 1.49 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR 3.BE: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.066 m3

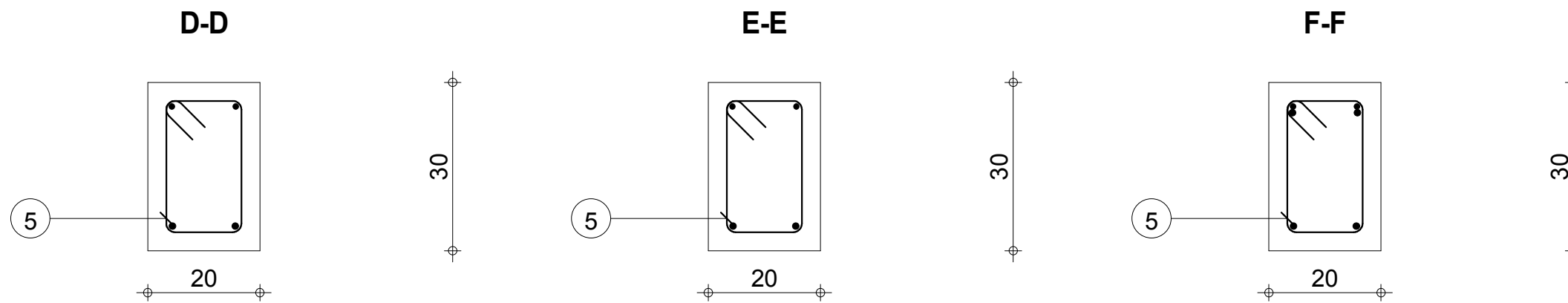
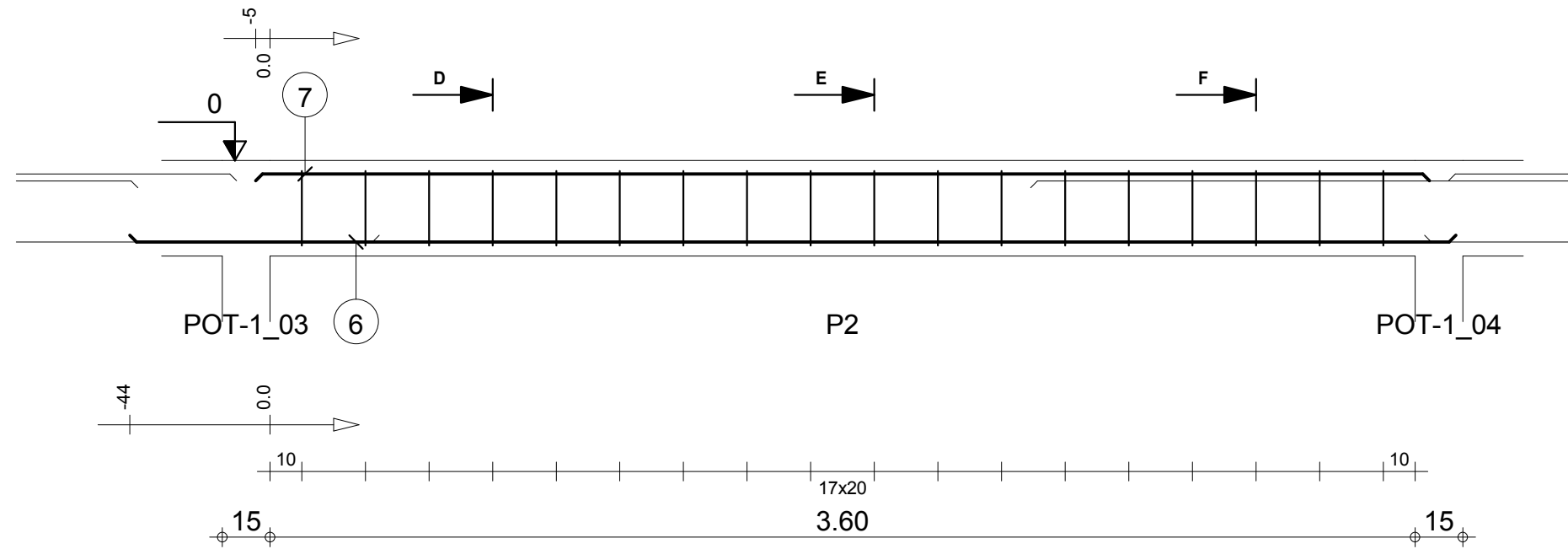
Acier HA 400 = 0.974 kg

Acier HA 400 = 5.22 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 5 | 18HA 6 | l=88 | 31 | |
| 6 | 2HA 12 | l=4.17 | 00 | |
| 7 | 2HA 10 | l=3.69 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

LGR 3.BE: P2
Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

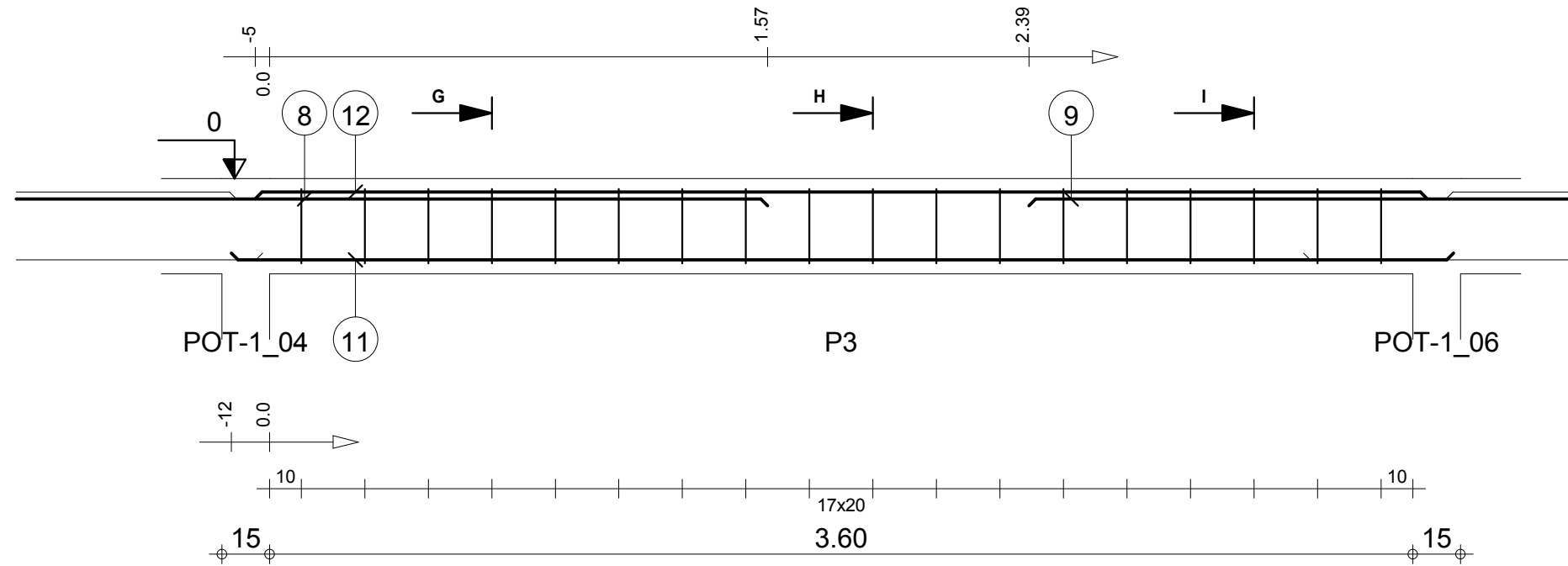
Page 2/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 3.51 kg
Acier HA 400 = 12 kg

-1

MINHDU_BAMBOUTOS_POUTRES

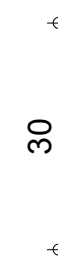
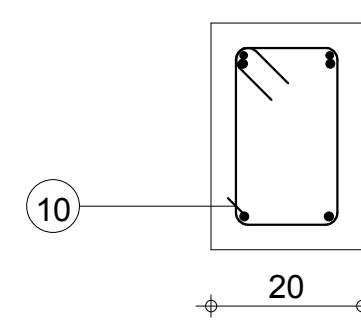
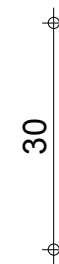
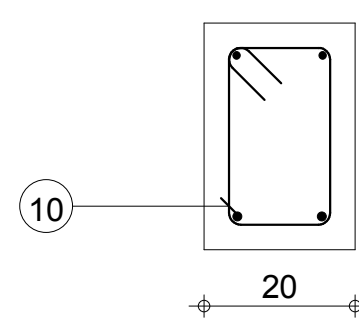
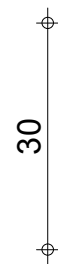
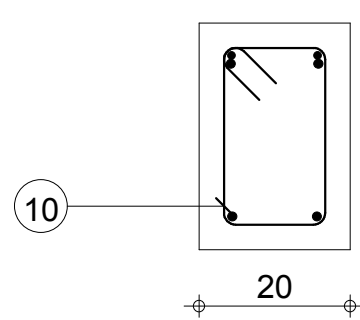
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| 8 | 2HA 12 | l=2.93 | 00 2.93 |
| 9 | 2HA 12 | l=2.36 | 00 2.35 |
| 10 | 18HA 6 | l=88 | 31 14 8 |
| 11 | 2HA 12 | l=3.85 | 00 3.85 |
| 12 | 2HA 10 | l=3.69 | 00 3.69 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR 3.BE: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.225 m3

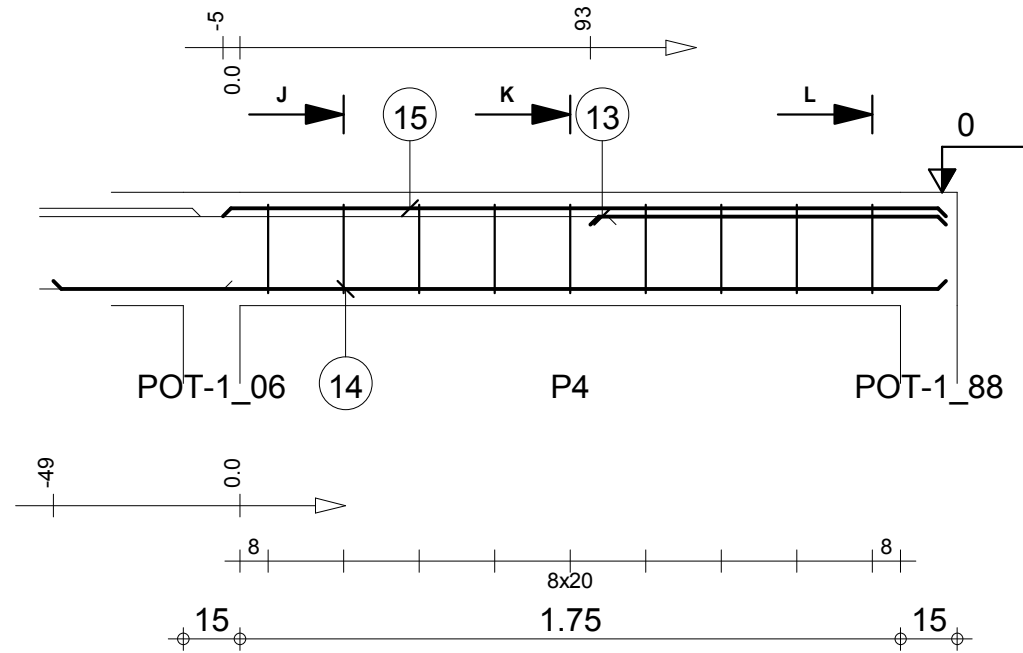
Acier HA 400 = 3.51 kg

Acier HA 400 = 20.8 kg

-1

MINHDU_BAMBOUTOS_POUTRES

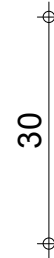
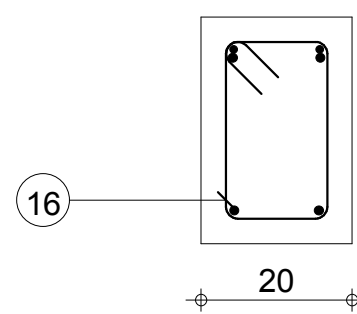
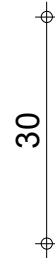
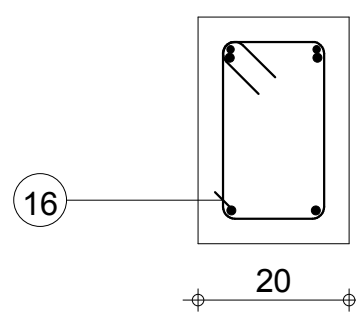
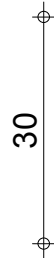
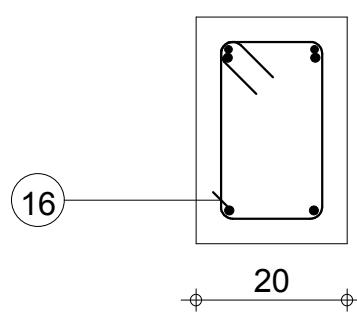
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=94 | 00 | 94 |
| 14 | 2HA 12 | l=2.36 | 00 | 2.36 |
| 15 | 2HA 10 | l=1.92 | 00 | 1.92 |
| 16 | 9HA 6 | l=88 | 31 | |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR 3.BE: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.119 m3

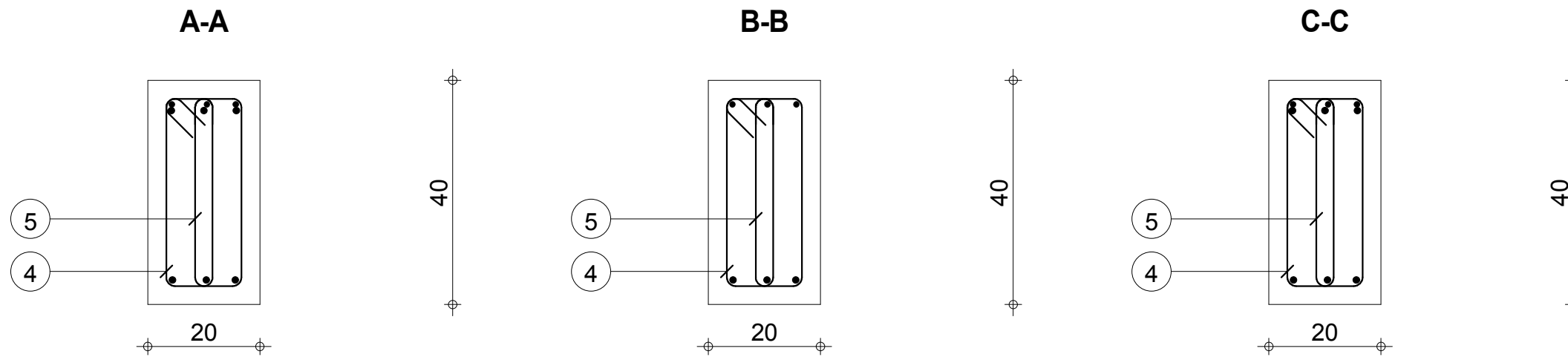
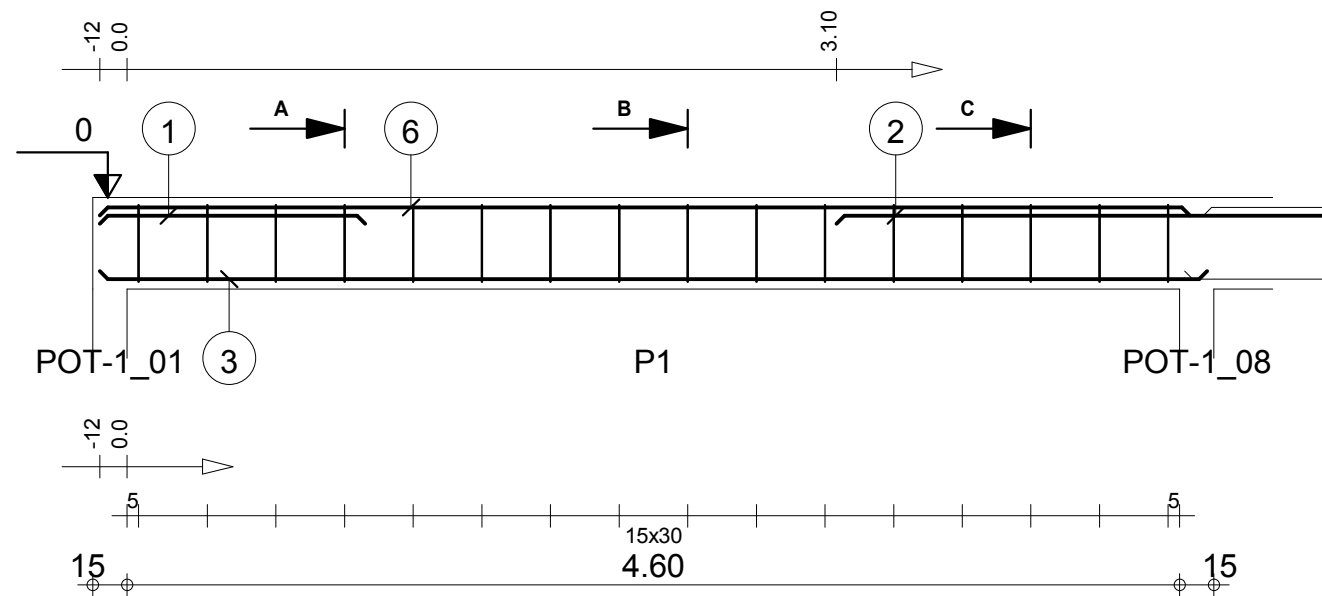
Acier HA 400 = 1.75 kg

Acier HA 400 = 8.23 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 3HA 12 | l=1.16 | 00 | 1.16 |
| ② | 3HA 12 | l=2.85 | 00 | 2.85 |
| ③ | 3HA 12 | l=4.84 | 00 | 4.84 |
| ④ | 16HA 6 | l=1.08 | 31 | |
| ⑤ | 16HA 6 | l=81 | | |
| ⑥ | 3HA 10 | l=4.76 | 00 | 4.77 |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR 4.K: P1

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.386 m3

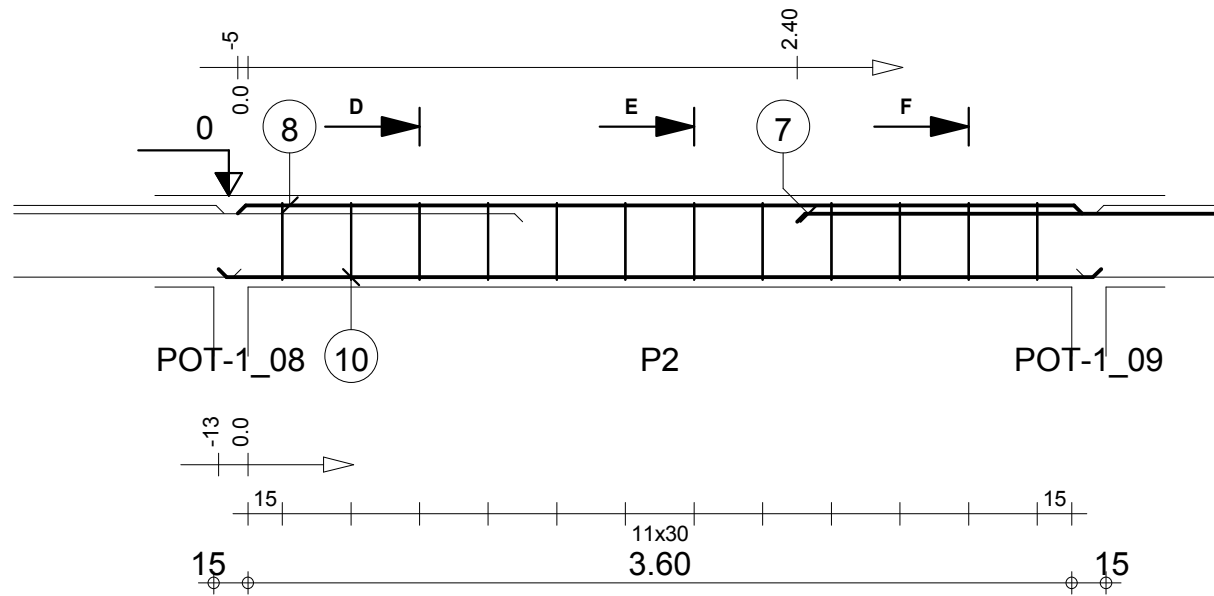
Acier HA 400 = 6.71 kg

Acier HA 400 = 32.4 kg

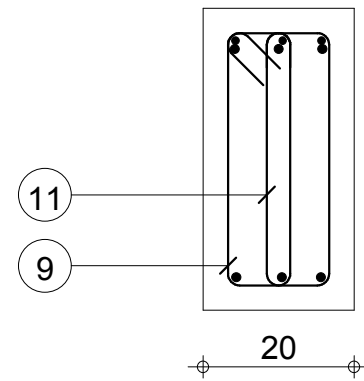
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MINHDU_BAMBOUTOS_POUTRES

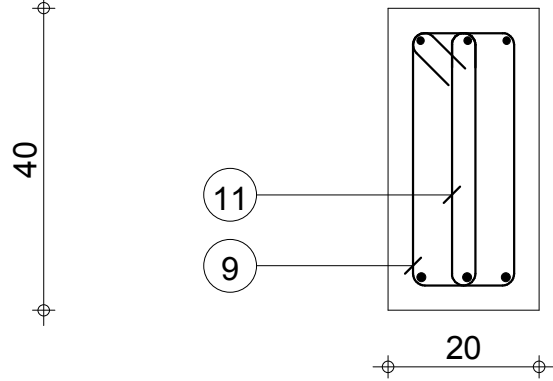
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------------|
| 7 | 3HA 12 | l=2.55 | 00 2.55 |
| 8 | 3HA 10 | l=3.69 | 00 3.69 |
| 9 | 12HA 6 | l=1.08 | 31 14 8 34 |
| 10 | 3HA 12 | l=3.86 | 00 3.86 |
| 11 | 12HA 6 | l=81 | 34 0.0 8 |



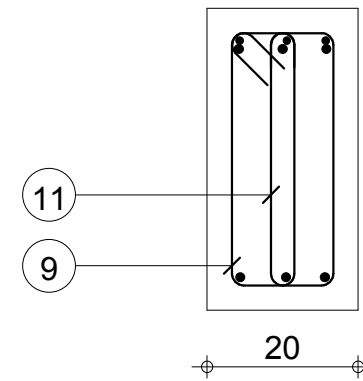
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR 4.K: P2

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.3 m3

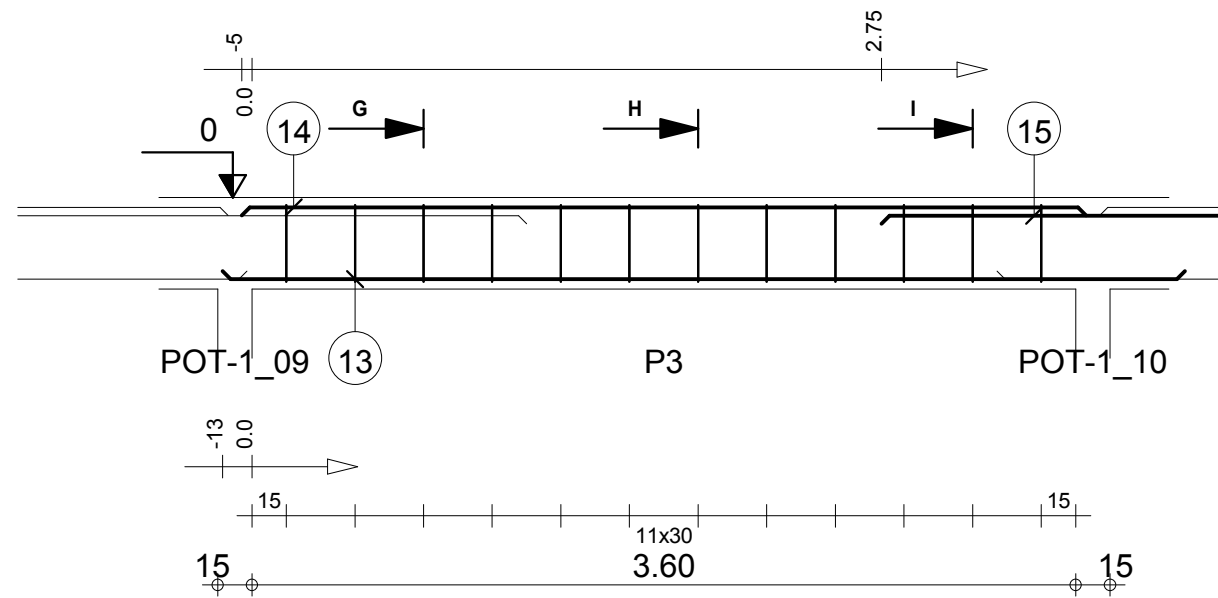
Acier HA 400 = 5.03 kg

Acier HA 400 = 23.9 kg

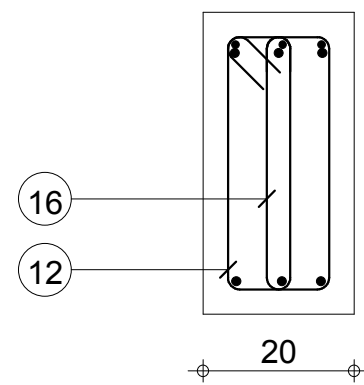
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MINHDU_BAMBOUTOS_POUTRES

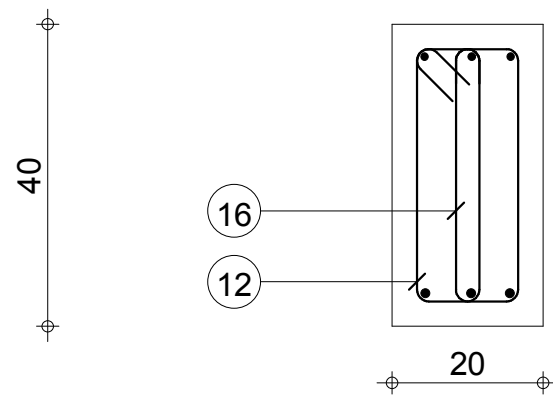
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 12 | 12HA 6 | l=1.08 | 31 | |
| 13 | 3HA 12 | l=4.21 | 00 | |
| 14 | 3HA 10 | l=3.69 | 00 | |
| 15 | 3HA 12 | l=1.85 | 00 | |
| 16 | 12HA 6 | l=81 | | |



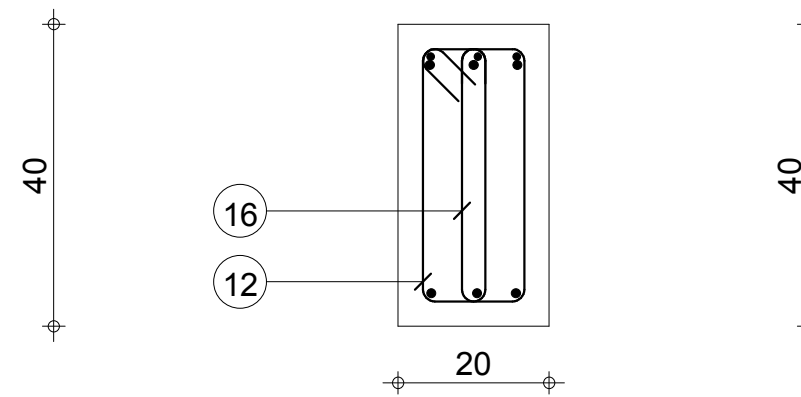
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR 4.K: P3

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.3 m3

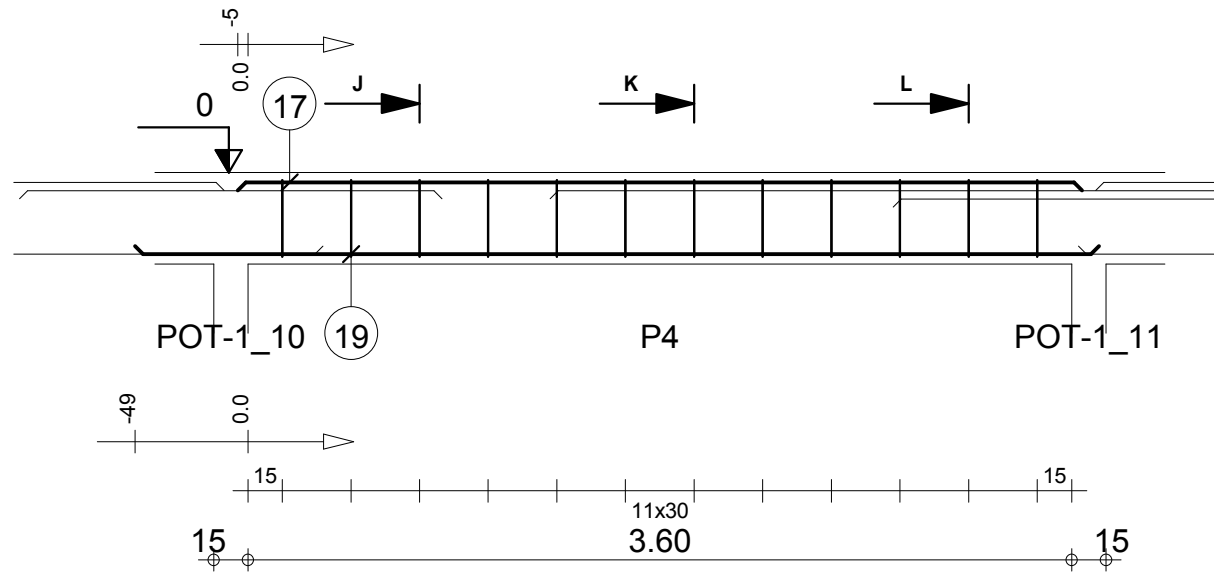
Acier HA 400 = 5.03 kg

Acier HA 400 = 22.9 kg

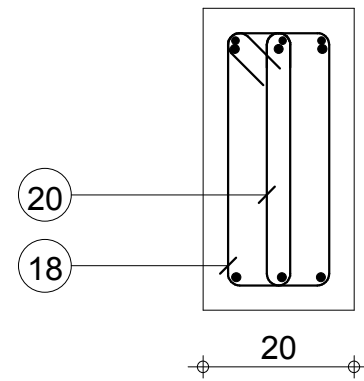
-1

MINHDU_BAMBOUTOS_POUTRES

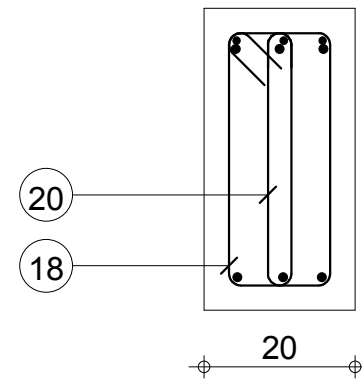
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 17 | 3HA 10 | l=3.69 | 00 | 3.69 |
| 18 | 12HA 6 | l=1.08 | 31 | |
| 19 | 3HA 12 | l=4.21 | 00 | 4.21 |
| 20 | 12HA 6 | l=81 | | |



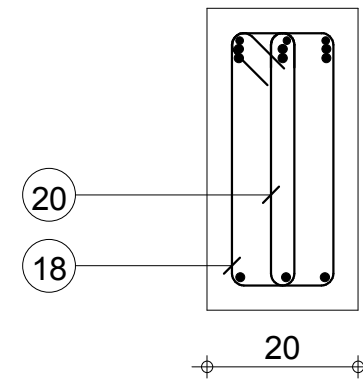
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR 4.K: P4

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.3 m3

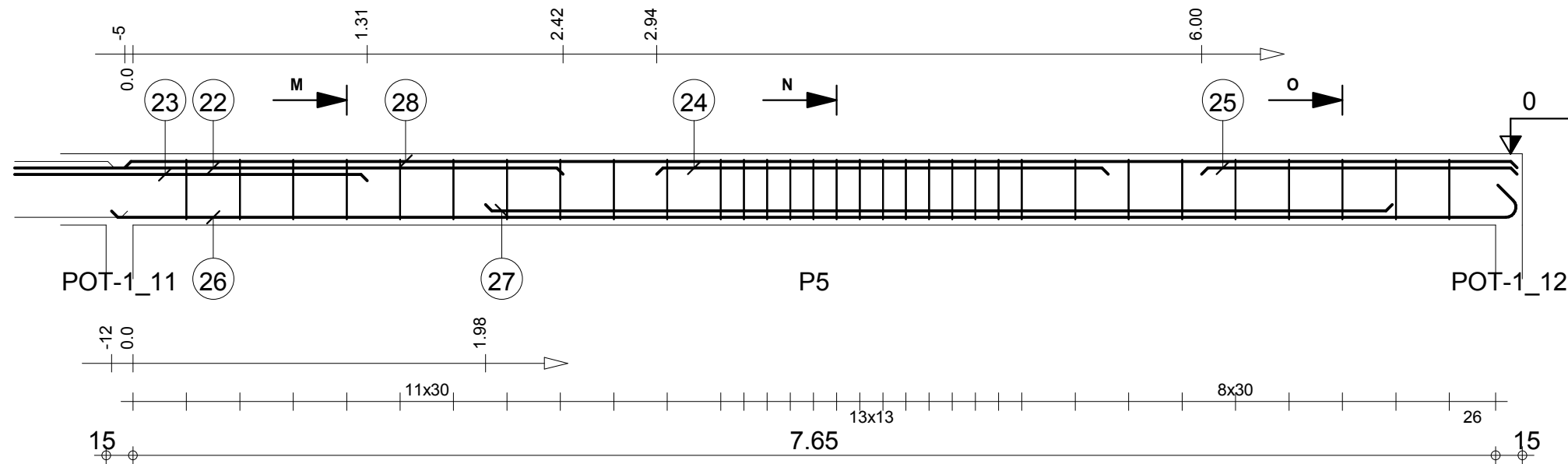
Acier HA 400 = 5.03 kg

Acier HA 400 = 18 kg

-1

MINHDU_BAMBOUTOS_POUTRES

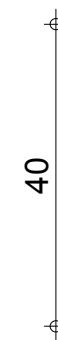
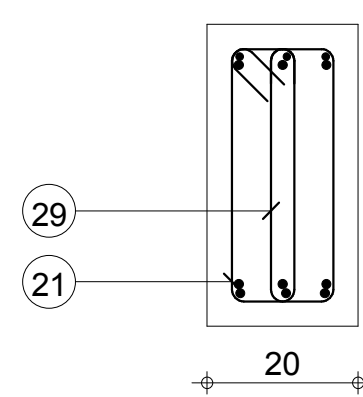
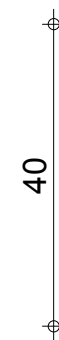
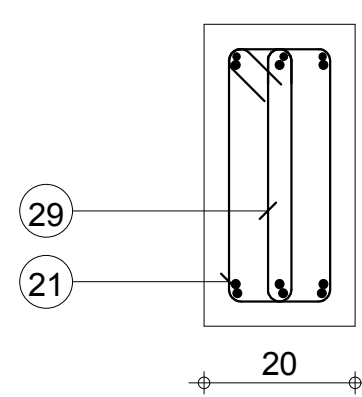
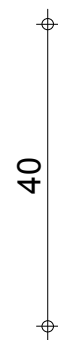
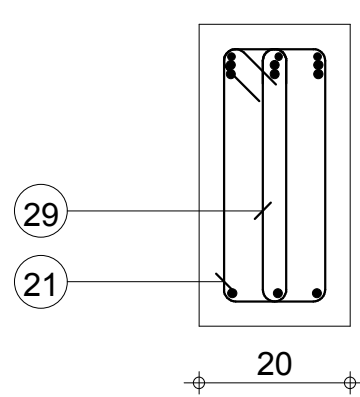
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 32HA 6 | l=1.08 | 31 | |
| 22 | 3HA 12 | l=4.84 | 00 | |
| 23 | 3HA 12 | l=2.25 | 00 | |
| 24 | 3HA 12 | l=2.54 | 00 | |
| 25 | 3HA 12 | l=1.77 | 00 | |
| 26 | 3HA 12 | l=8.08 | 00 | |
| 27 | 3HA 12 | l=5.09 | 00 | |
| 28 | 3HA 10 | l=7.82 | 00 | |
| 29 | 32HA 6 | l=81 | | |



M-M

N-N

O-O



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR 4.K: P5

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5


Béton : BETON20 = 0.63 m3

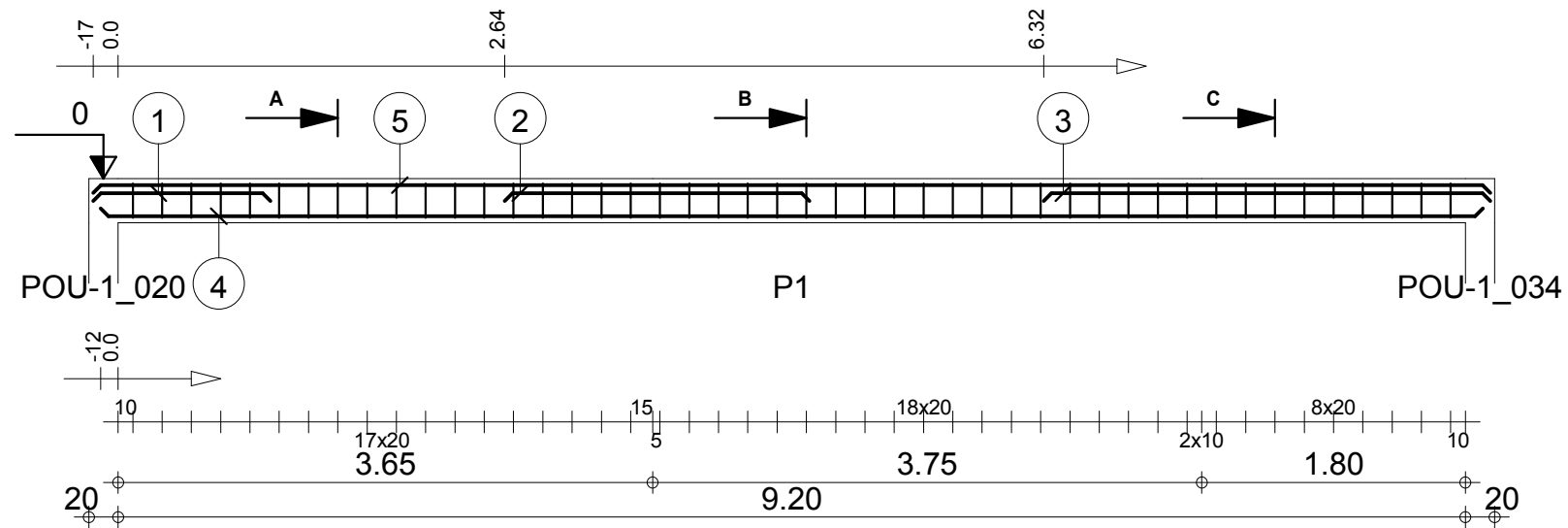
Acier HA 400 = 13.4 kg

Acier HA 400 = 79.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

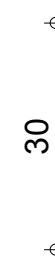
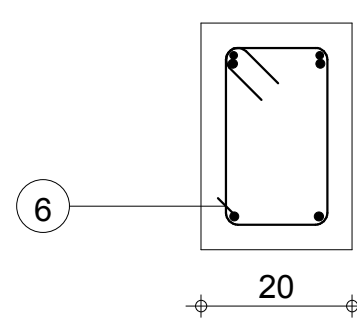
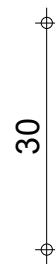
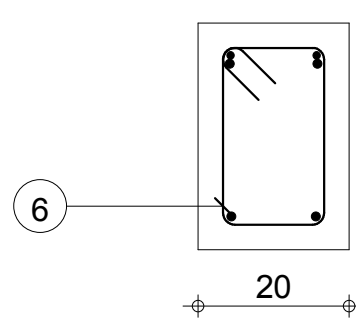
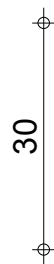
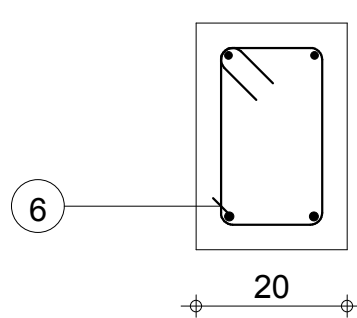
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.21 | 00 | 1.21 |
| ② | 2HA 12 | l=2.08 | 00 | 2.08 |
| ③ | 2HA 12 | l=3.05 | 00 | 3.05 |
| ④ | 2HA 12 | l=9.44 | 00 | 9.44 |
| ⑤ | 2HA 10 | l=9.54 | 00 | 9.54 |
| ⑥ | 46HA 6 | l=88 | 31 |  |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:50

Echelle pour la section 1:10

LGR 1.BE: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.576 m3

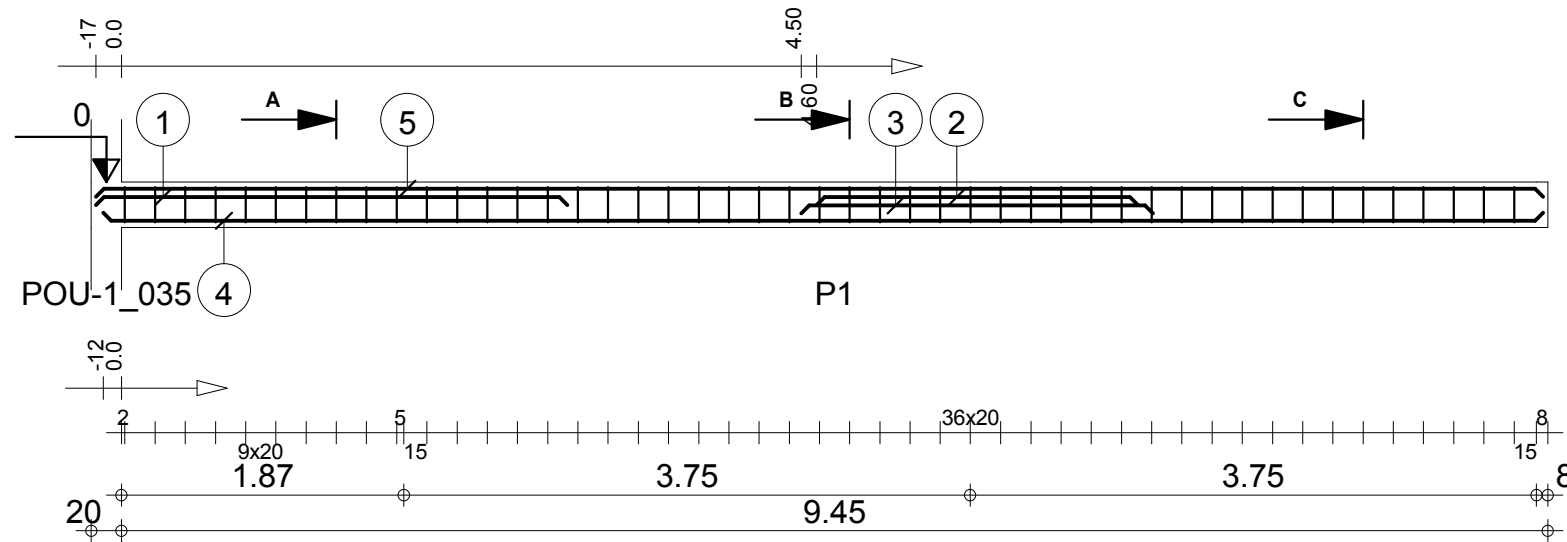
Acier HA 400 = 8.97 kg

Acier HA 400 = 39.8 kg

-1

MINHDU_BAMBOUTOS_POUTRES

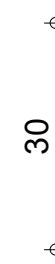
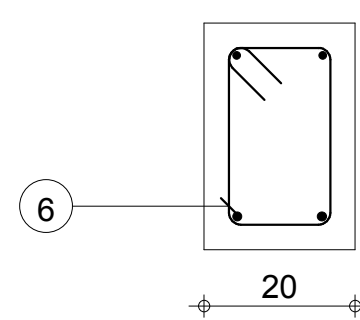
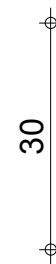
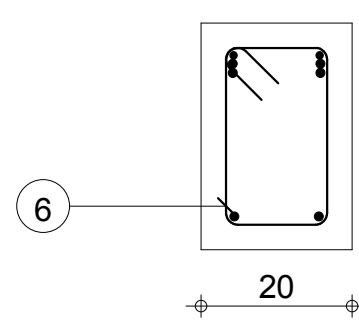
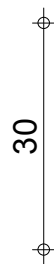
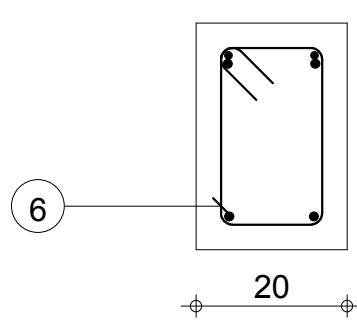
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ① | 2HA 12 | l=3.12 | 00 | 3.12 |
| ② | 2HA 12 | l=2.13 | 00 | 2.13 |
| ③ | 2HA 12 | l=2.33 | 00 | 2.33 |
| ④ | 2HA 12 | l=9.54 | 00 | 9.54 |
| ⑤ | 2HA 10 | l=9.59 | 00 | 9.59 |
| ⑥ | 47HA 6 | l=88 | 31 | |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:50

Echelle pour la section 1:10

LGR1.OS: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.579 m3

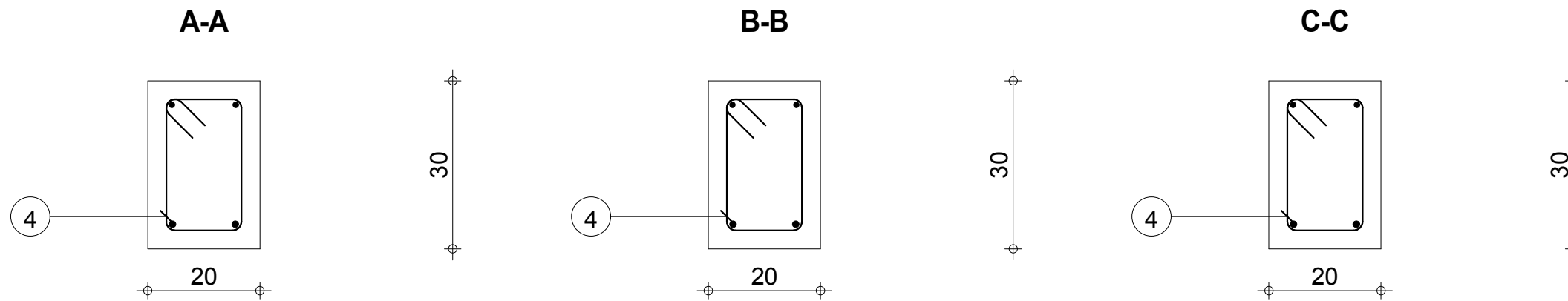
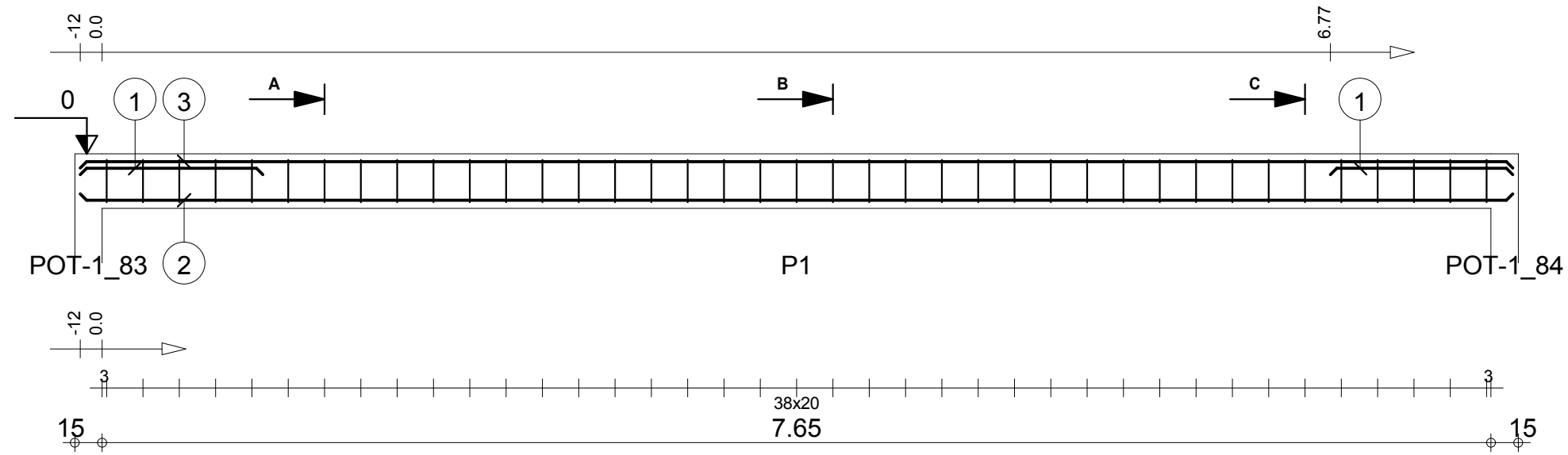
Acier HA 400 = 9.16 kg

Acier HA 400 = 42.2 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 4HA 12 | l=1.01 | 00 | 1.01 |
| ② | 2HA 12 | l=7.89 | 00 | 7.89 |
| ③ | 2HA 10 | l=7.89 | 00 | 7.89 |
| ④ | 39HA 6 | l=88 | 31 | |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR2.HK: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1


Béton : BETON20 = 0.477 m3

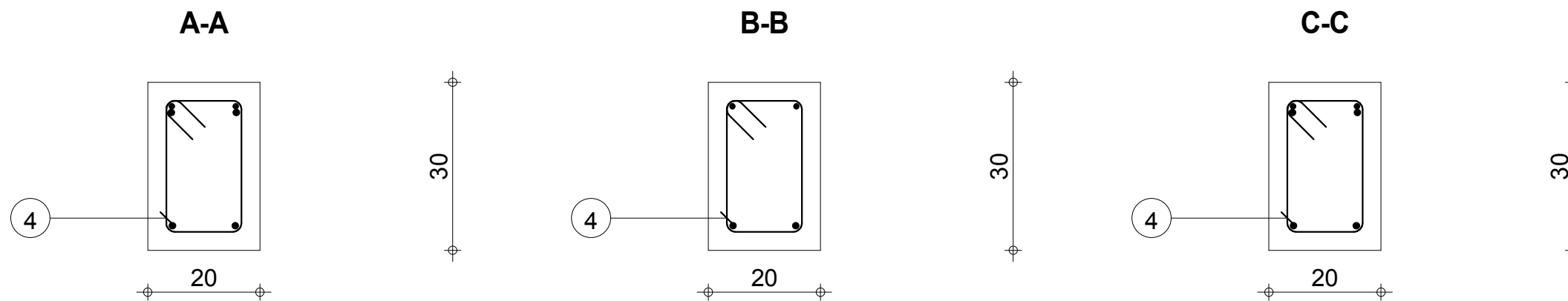
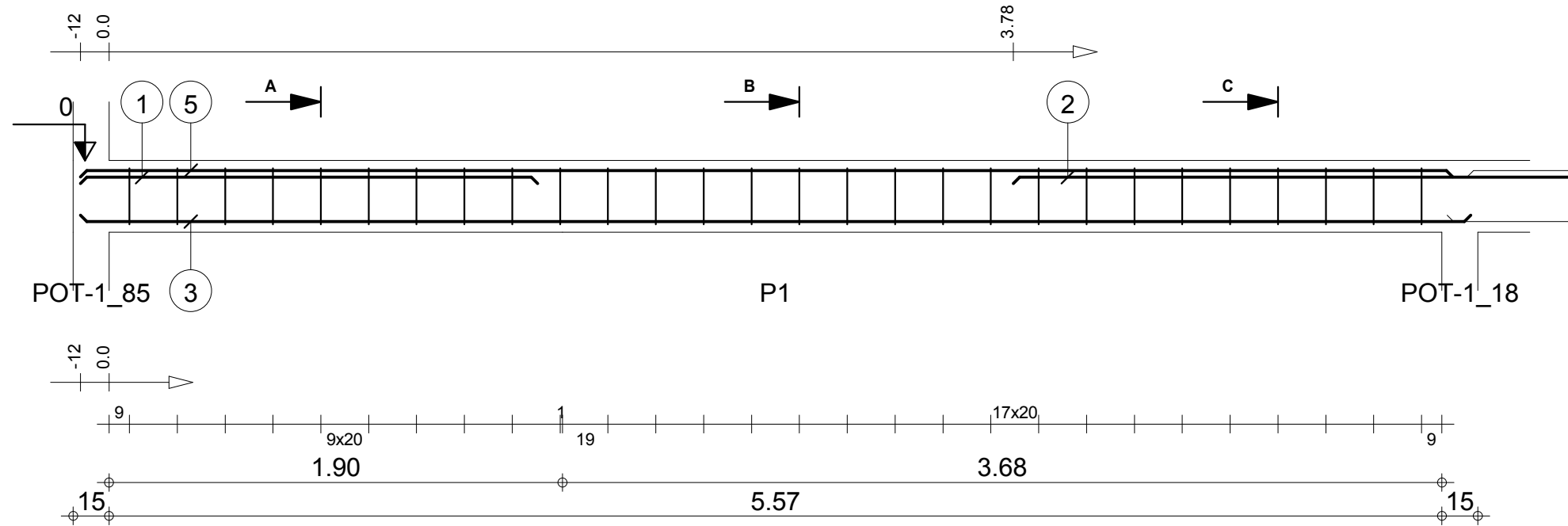
Acier HA 400 = 7.6 kg

Acier HA 400 = 27.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|---|
| ① | 2HA 12 | l=1.91 | 00 | 1.91 |
| ② | 2HA 12 | l=3.15 | 00 | 3.15 |
| ③ | 2HA 12 | l=5.81 | 00 | 5.81 |
| ④ | 2*14HA 6 | l=88 | 31 |  |
| ⑤ | 2HA 10 | l=5.74 | 00 | 5.74 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGR3.OS: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.348 m3

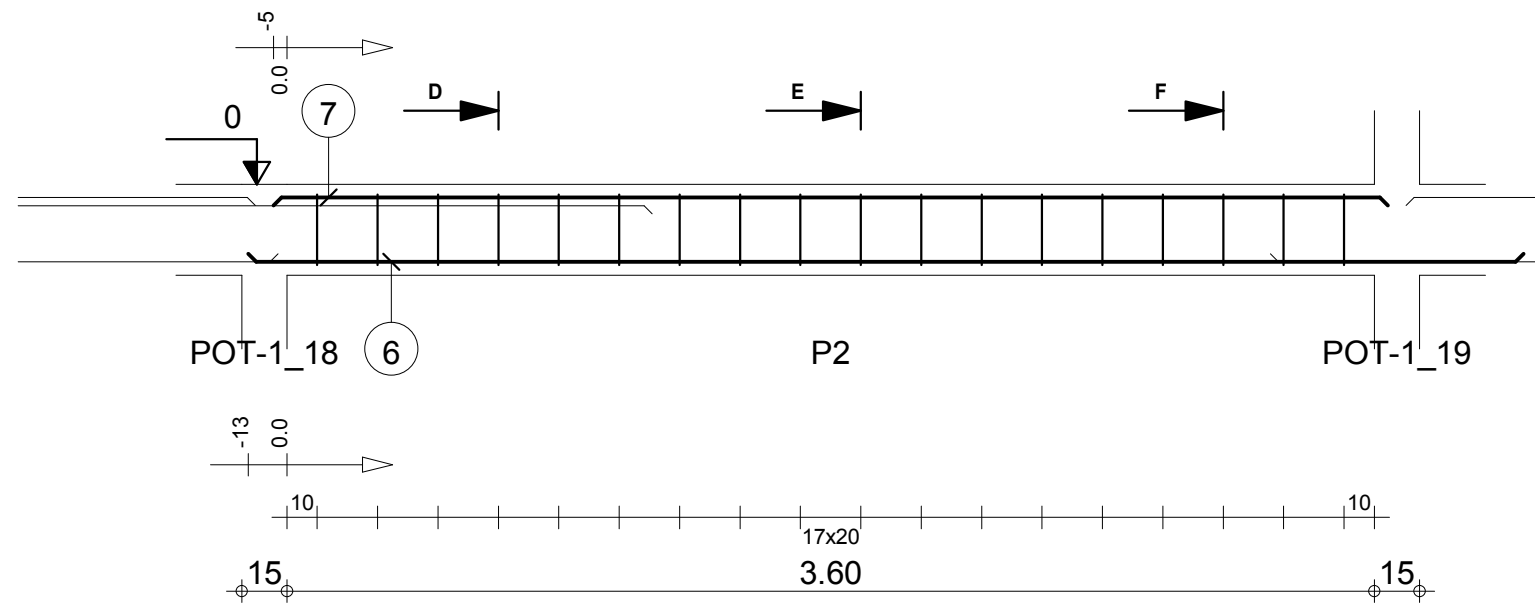
Acier HA 400 = 5.46 kg

Acier HA 400 = 26.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

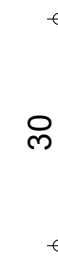
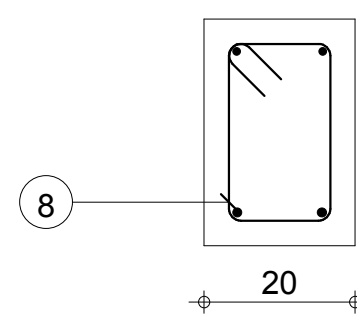
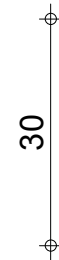
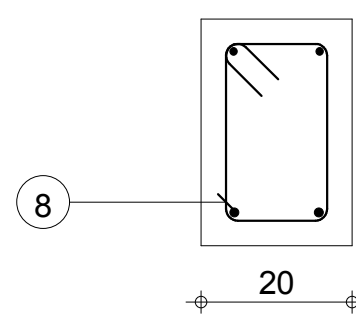
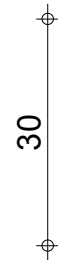
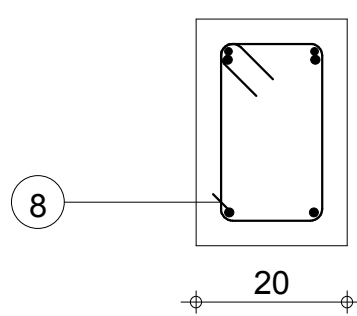
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| 6 | 2HA 12 | l=4.22 | 00 4.22 |
| 7 | 2HA 10 | l=3.69 | 00 3.69 |
| 8 | 18HA 6 | l=88 | 31 14 8 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGR3.OS: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.225 m3

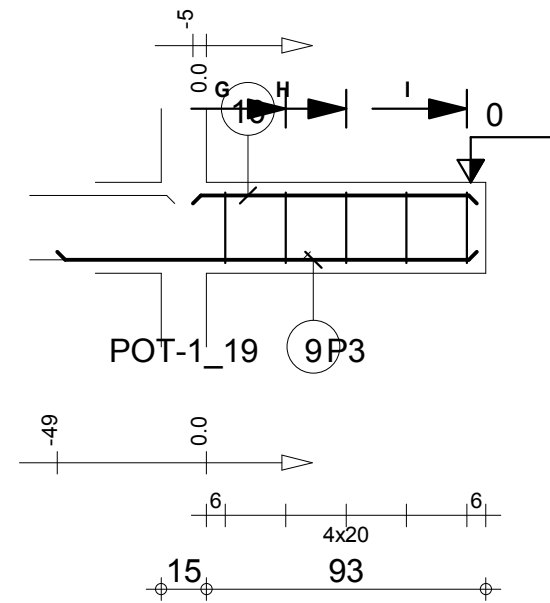
Acier HA 400 = 3.51 kg

Acier HA 400 = 12 kg

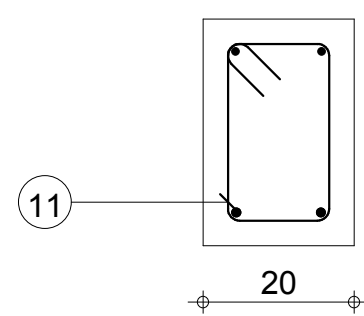
-1

MINHDU_BAMBOUTOS_POUTRES

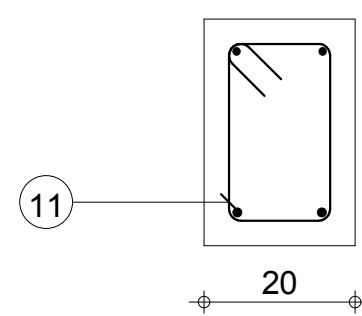
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| 9 | 2HA 12 | I=1.39 | 1.39 |
| 10 | 2HA 10 | I=94 | 94 |
| 11 | 5HA 6 | I=88 | 14 8 24 |



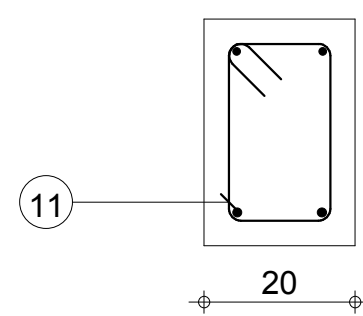
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGR3.OS: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.06 m3

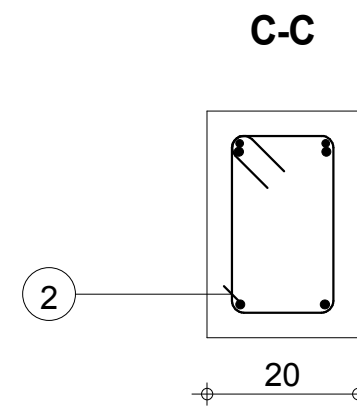
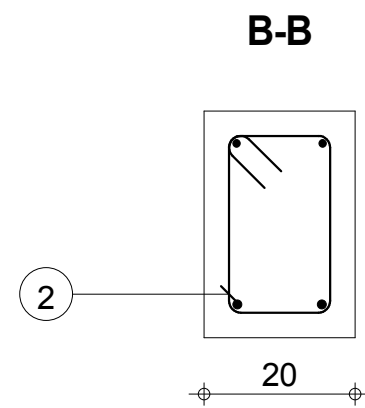
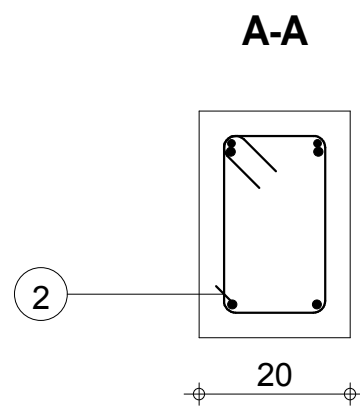
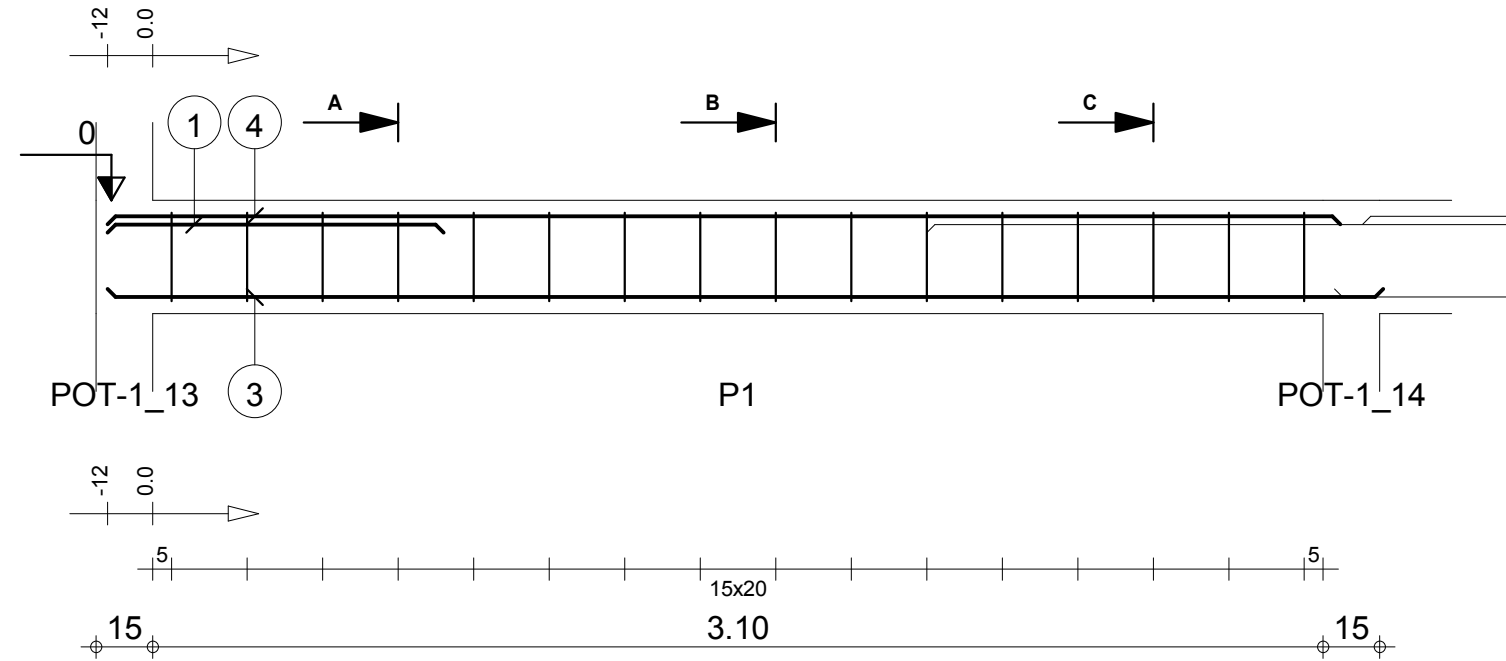
Acier HA 400 = 0.974 kg

Acier HA 400 = 3.63 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=89 | 00 | 89 |
| ② | 16HA 6 | l=88 | 31 | |
| ③ | 2HA 12 | l=3.38 | 00 | 3.38 |
| ④ | 2HA 10 | l=3.27 | 00 | 3.27 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR4.LS: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.2 m3

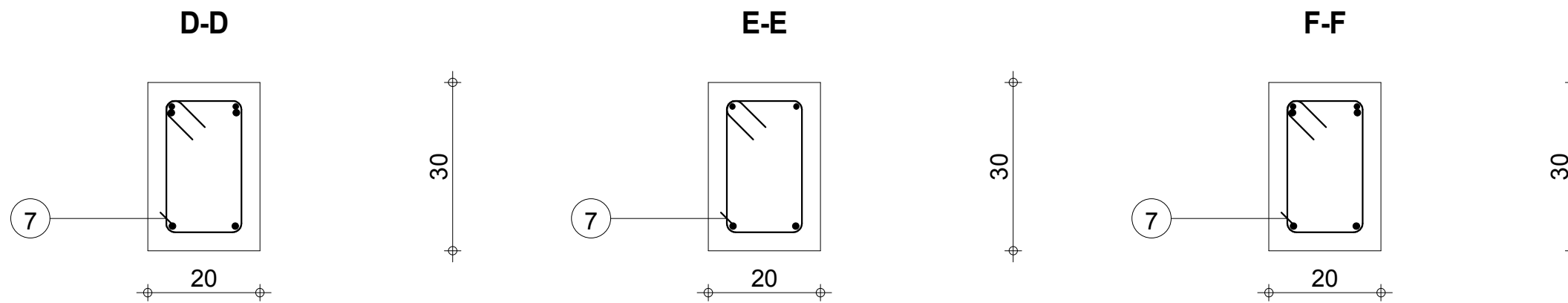
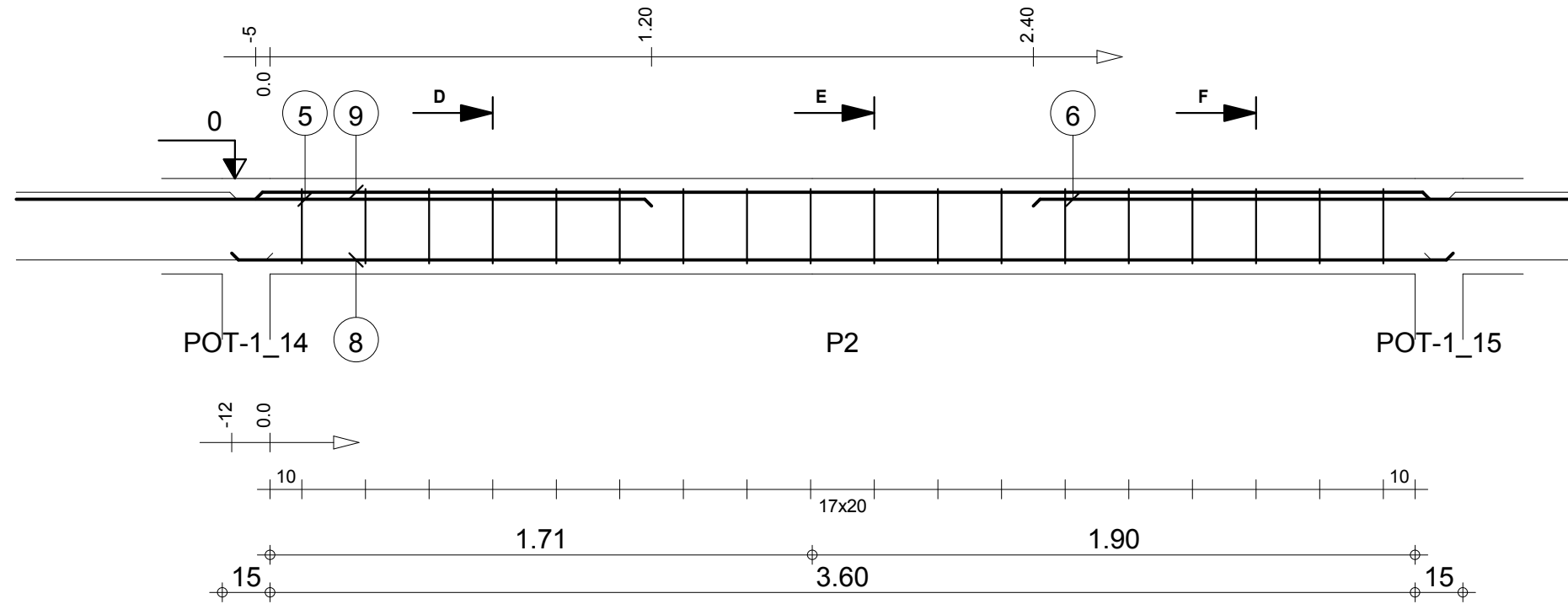
Acier HA 400 = 3.12 kg

Acier HA 400 = 11.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 5 | 2HA 12 | l=2.40 | 00 | 2.40 |
| 6 | 2HA 12 | l=2.55 | 00 | 2.55 |
| 7 | 2*9HA 6 | l=88 | 31 | |
| 8 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 9 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR4.LS: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4


Béton : BETON20 = 0.225 m3

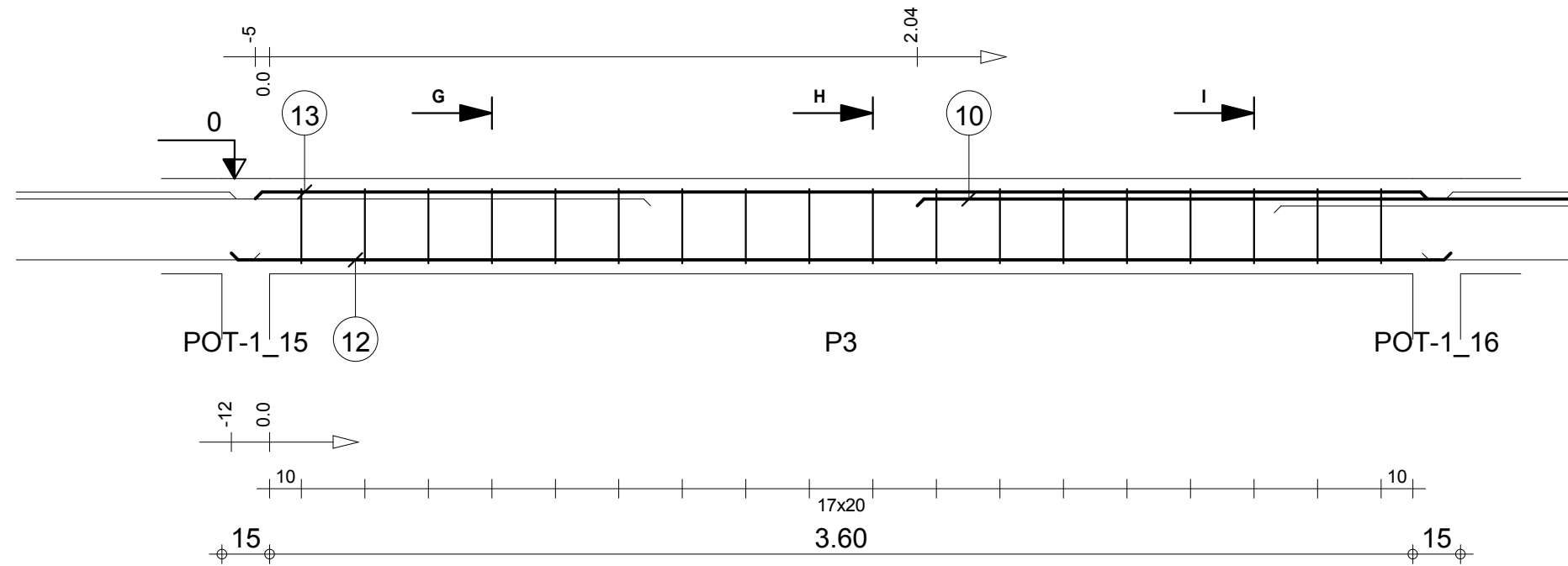
Acier HA 400 = 3.51 kg

Acier HA 400 = 20.2 kg

-1

MINHDU_BAMBOUTOS_POUTRES

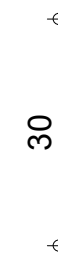
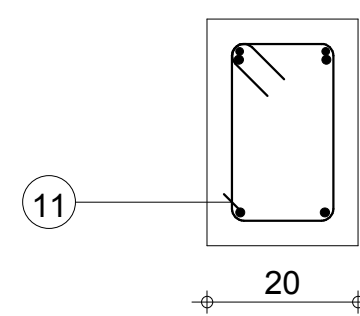
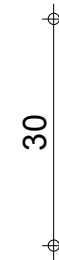
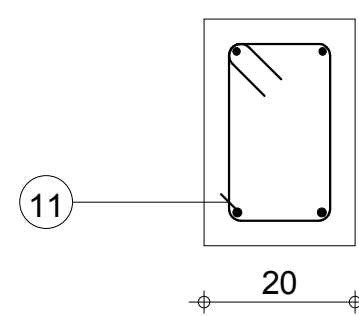
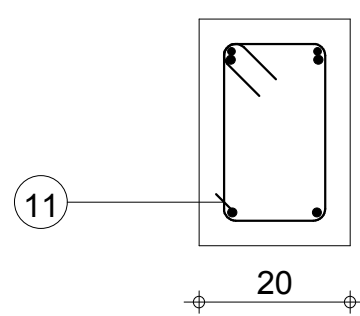
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 10 | 2HA 12 | l=3.21 | 00 | 3.21 |
| 11 | 18HA 6 | l=88 | 31 |  |
| 12 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 13 | 2HA 10 | l=3.69 | 00 | 3.69 |



G-G

H-H

I-I



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

LGR4.LS: P3
Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

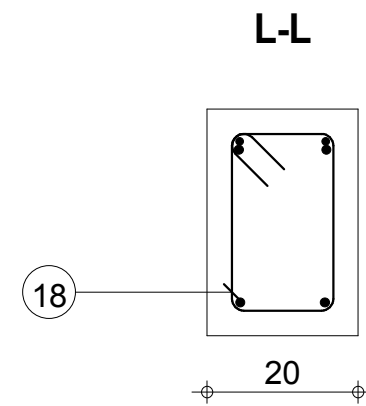
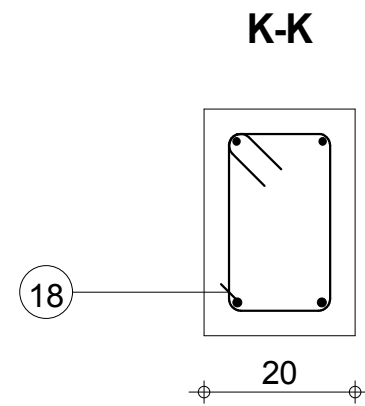
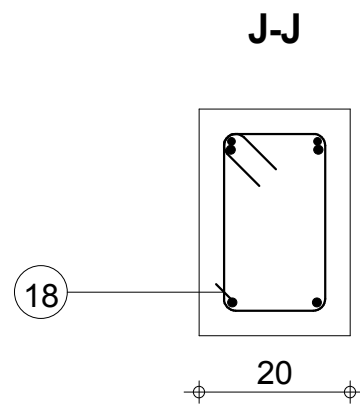
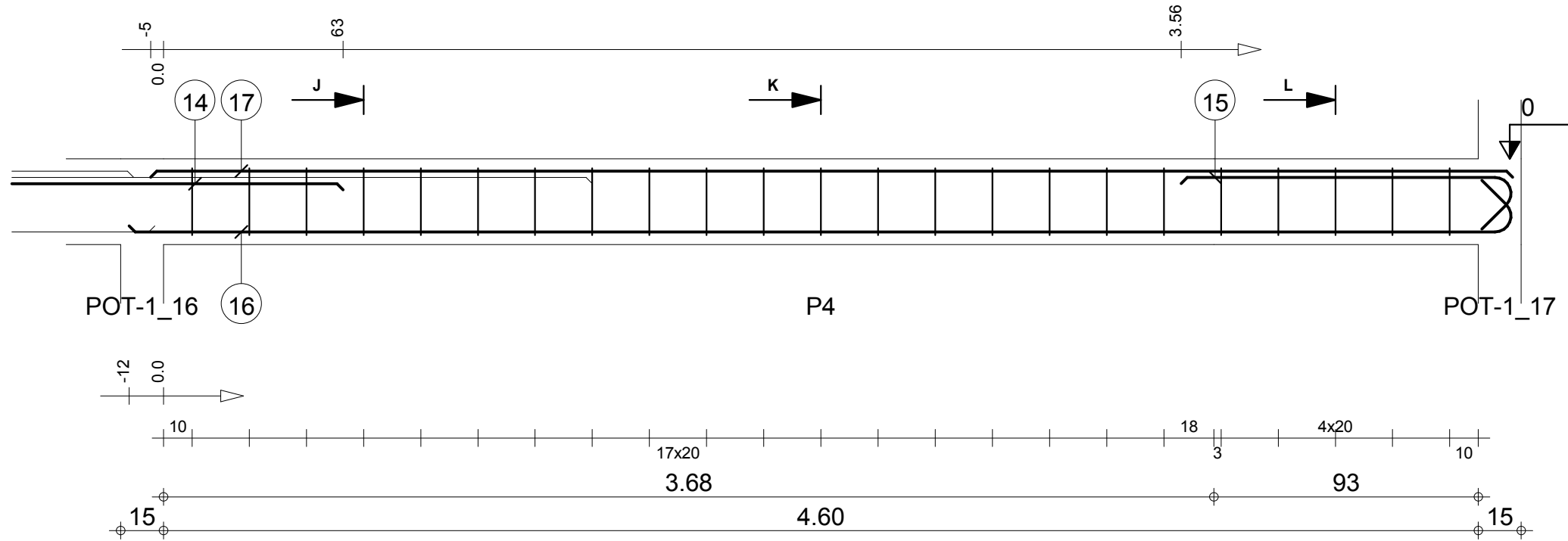
Page 3/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 3.51 kg
Acier HA 400 = 17.1 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 14 | 2HA 12 | l=1.21 | 00 |
| 15 | 2HA 12 | l=1.35 | 00 |
| 16 | 2HA 12 | l=5.03 | 00 |
| 17 | 2HA 10 | l=4.76 | 00 |
| 18 | 23HA 6 | l=88 | 31 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR4.LS: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.289 m3

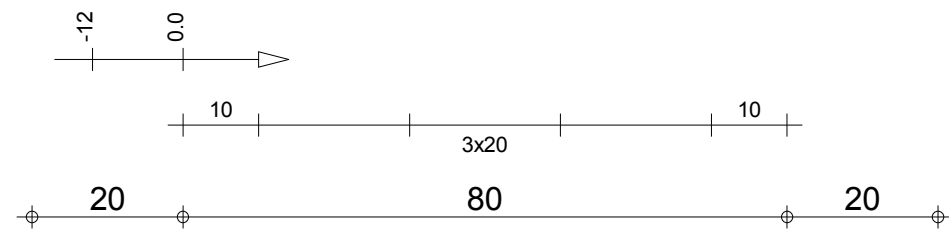
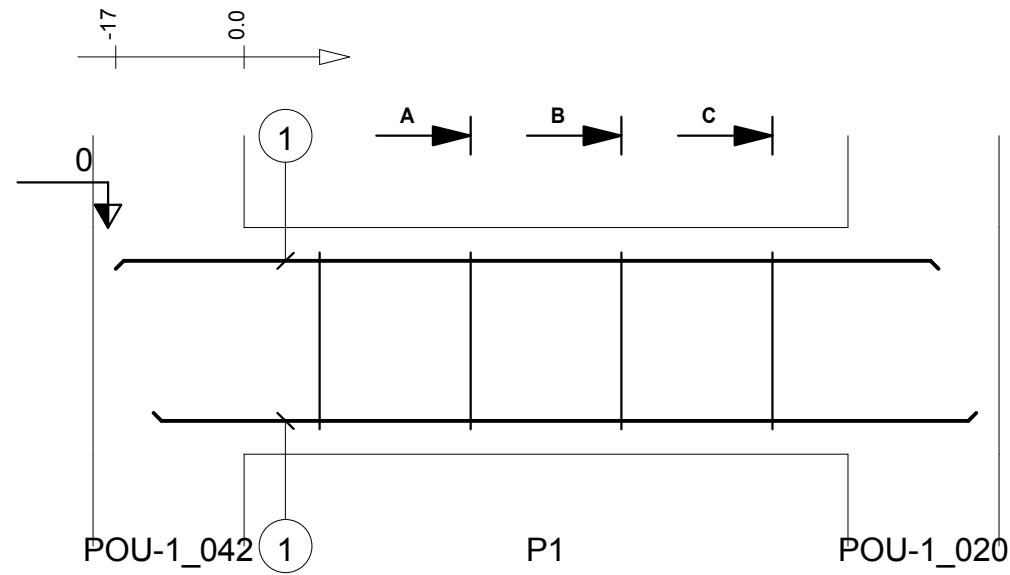
Acier HA 400 = 4.48 kg

Acier HA 400 = 19.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

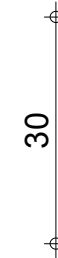
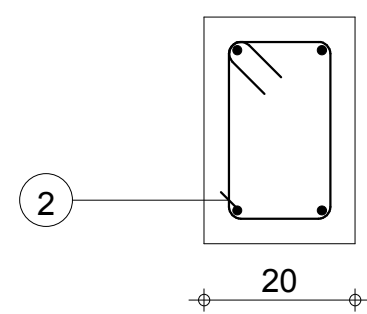
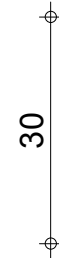
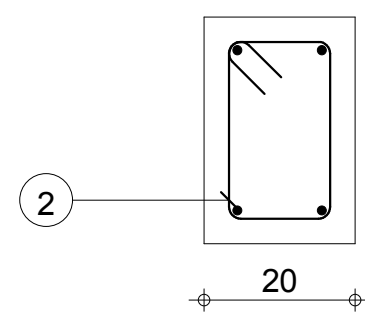
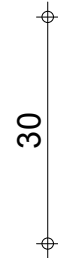
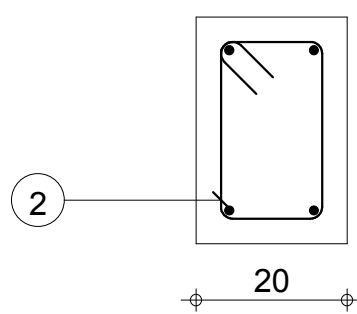
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 4HA 12 | I=1.09 | 1.09 |
| ② | 4HA 6 | I=88 | 31 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGR5.AB: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.072 m3

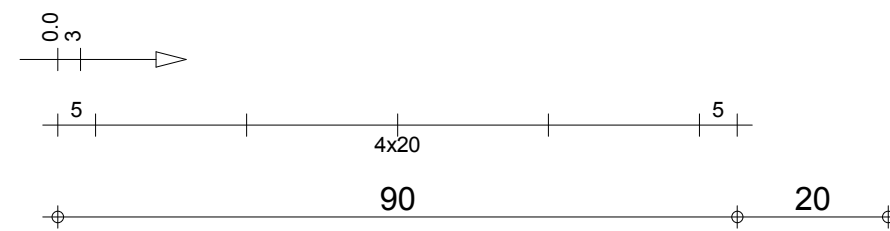
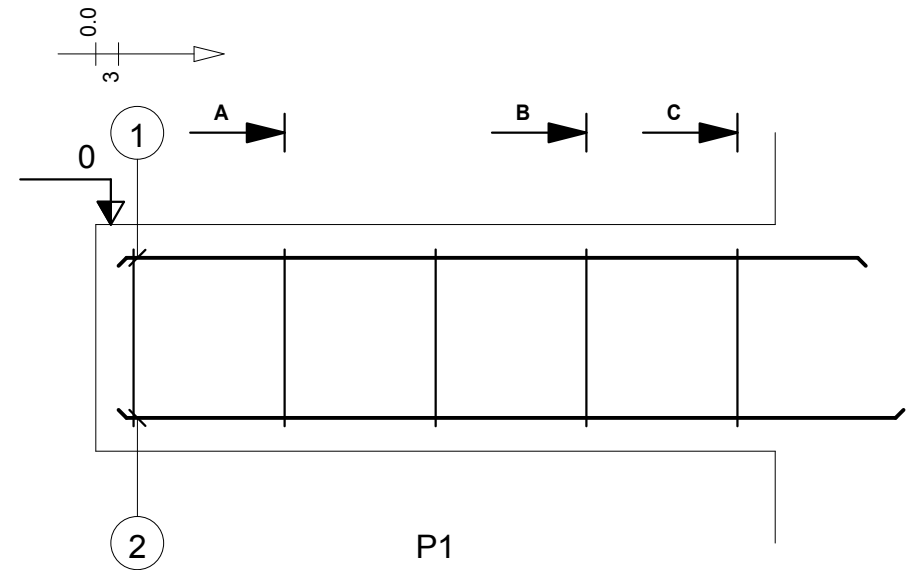
Acier HA 400 = 0.78 kg

Acier HA 400 = 3.87 kg

-1

MINHDU_BAMBOUTOS_POUTRES

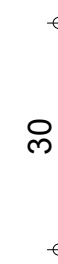
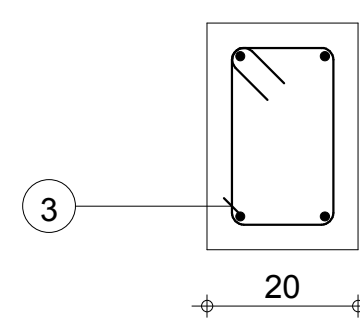
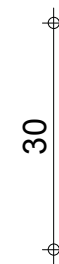
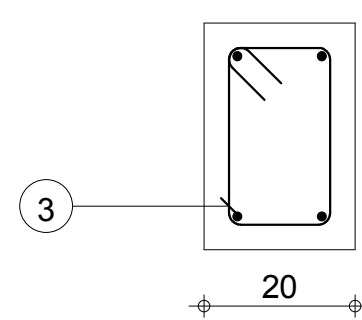
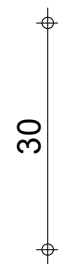
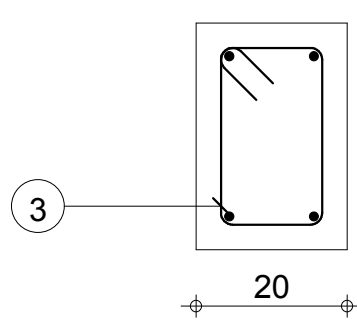
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| ① | 2HA 12 | I=99 | 99 |
| ② | 2HA 12 | I=1.04 | 1.04 |
| ③ | 5HA 6 | I=88 | 14 8 24 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGR5.RS: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1


Béton : BETON20 = 0.066 m3

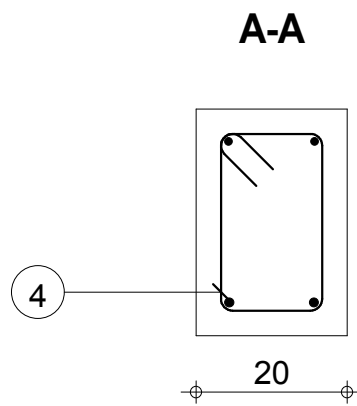
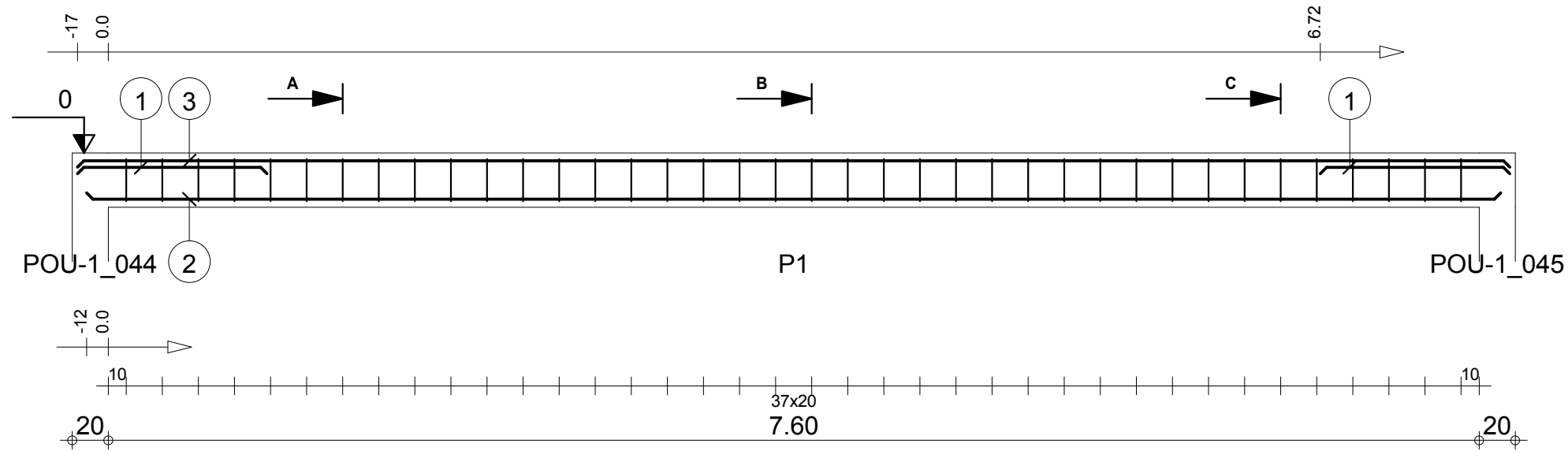
Acier HA 400 = 0.974 kg

Acier HA 400 = 3.6 kg

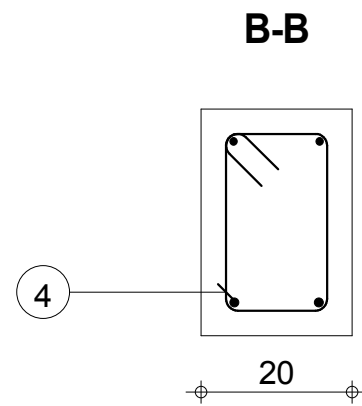
-1

MINHDU_BAMBOUTOS_POUTRES

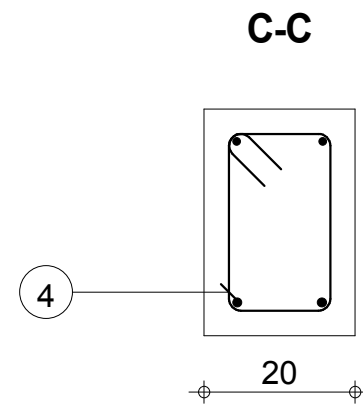
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 4HA 12 | l=1.05 | 00 | 1.05 |
| ② | 2HA 12 | l=7.84 | 00 | 7.84 |
| ③ | 2HA 10 | l=7.94 | 00 | 7.94 |
| ④ | 38HA 6 | l=88 | 31 |  |



30



30



30

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR6.HK: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.48 m3

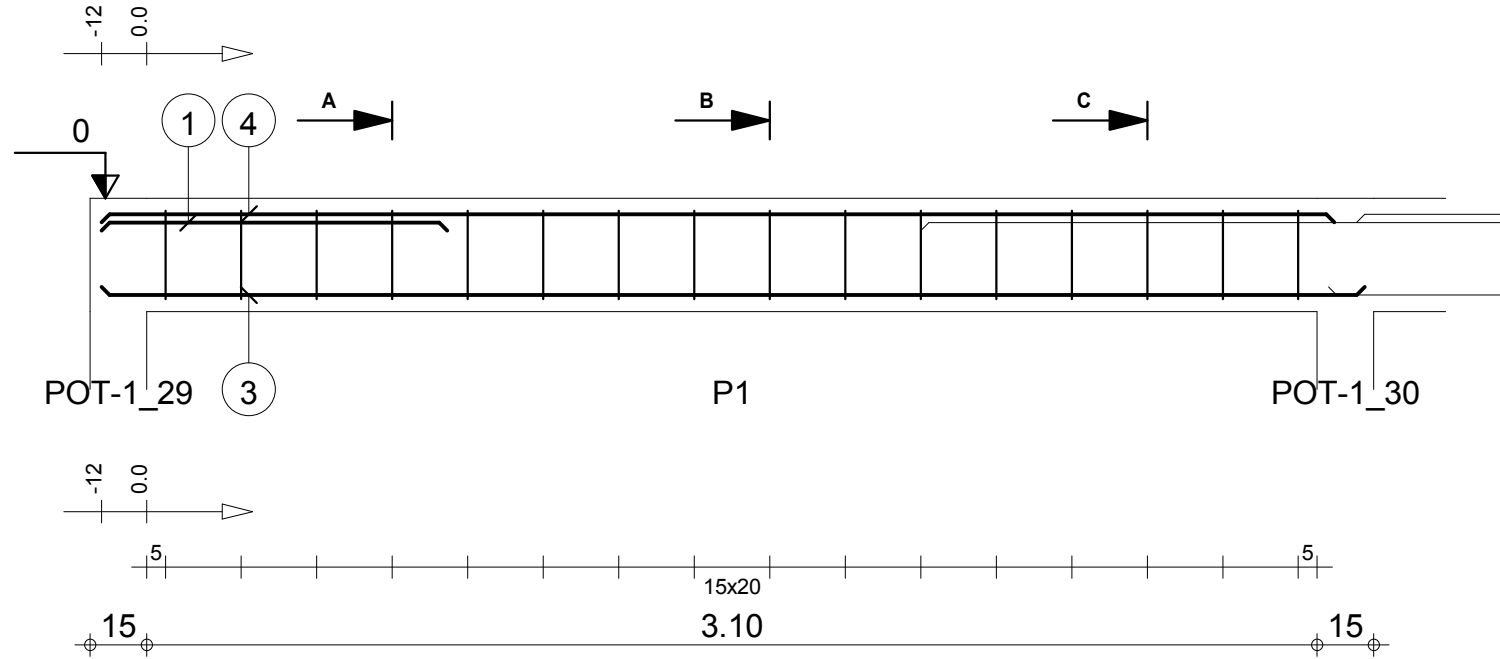
Acier HA 400 = 7.41 kg

Acier HA 400 = 27.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

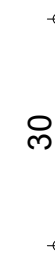
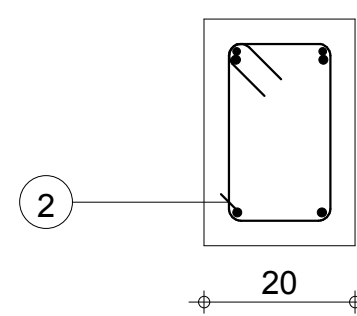
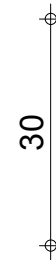
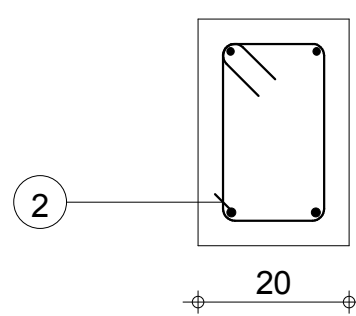
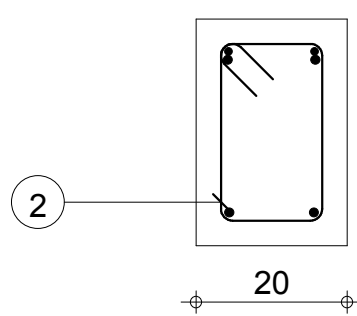
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=92 | 00 | 92 |
| ② | 16HA 6 | l=88 | 31 | |
| ③ | 2HA 12 | l=3.35 | 00 | 3.35 |
| ④ | 2HA 10 | l=3.27 | 00 | 3.27 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR7.LR: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.2 m3

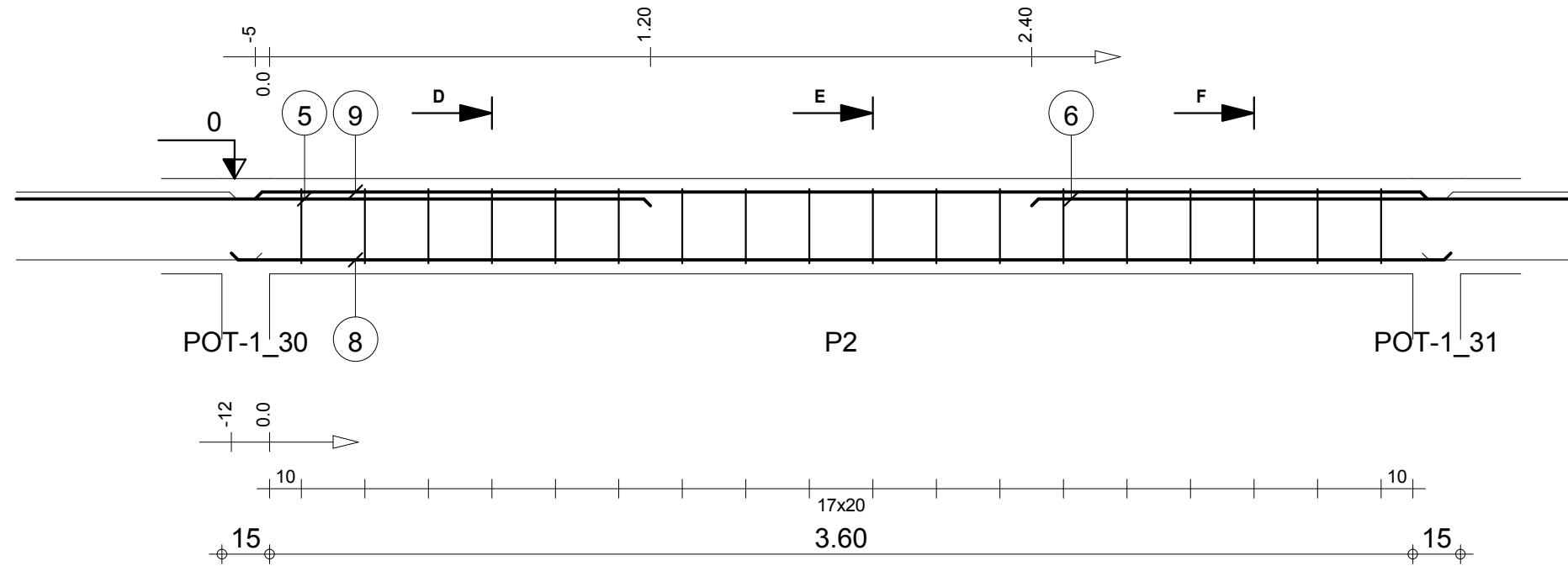
Acier HA 400 = 3.12 kg

Acier HA 400 = 11.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

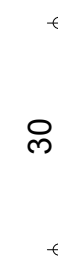
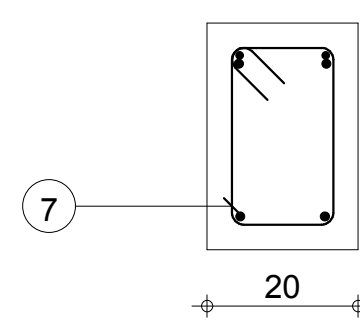
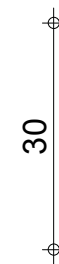
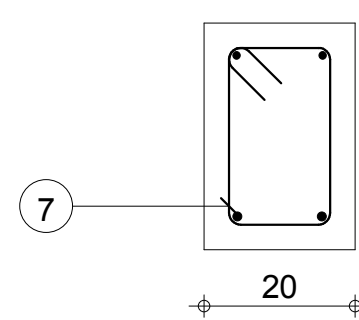
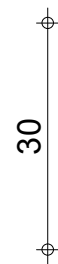
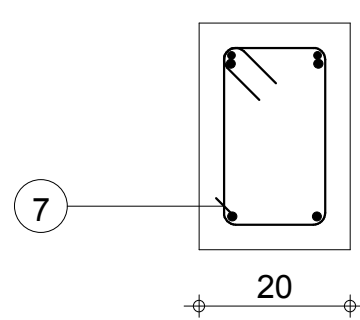
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 5 | 2HA 12 | l=2.40 | 00 | 2.40 |
| 6 | 2HA 12 | l=2.55 | 00 | 2.55 |
| 7 | 18HA 6 | l=88 | 31 | |
| 8 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 9 | 2HA 10 | l=3.69 | 00 | 3.69 |



D-D

E-E

F-F



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

LGR7.LR: P2
Section 20x30


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

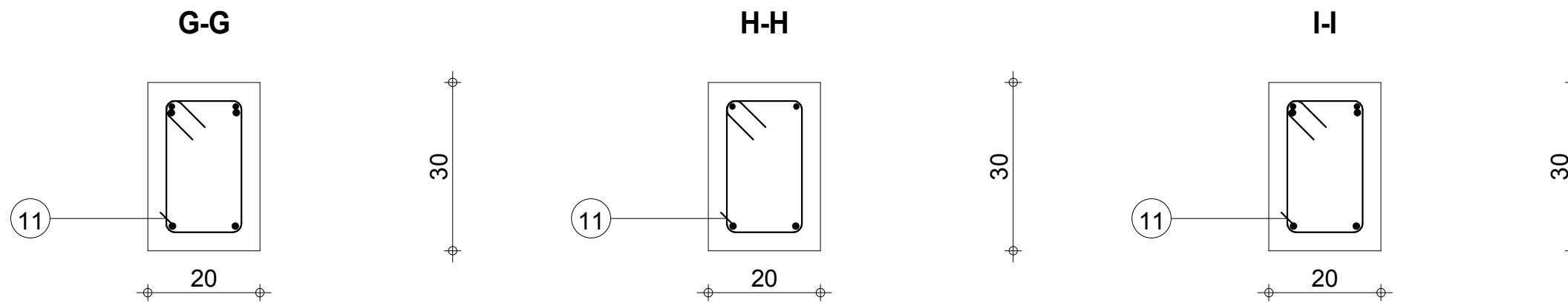
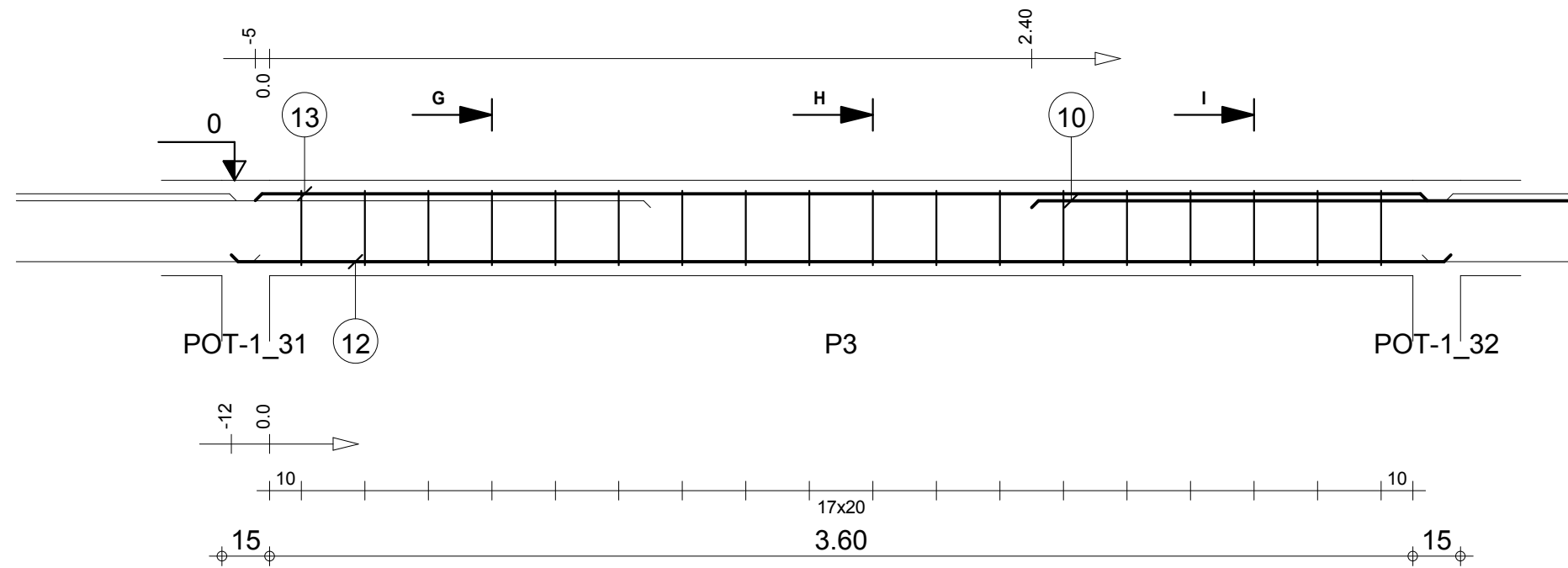
Page 2/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 3.51 kg
Acier HA 400 = 20.2 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 10 | 2HA 12 | l=2.55 | 00 | 2.55 |
| 11 | 18HA 6 | l=88 | 31 |  |
| 12 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 13 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR7.LR: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.225 m3

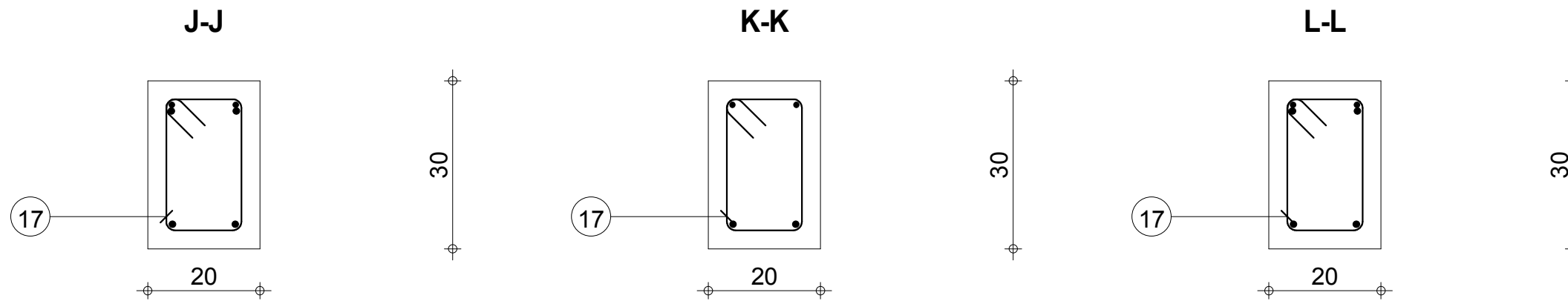
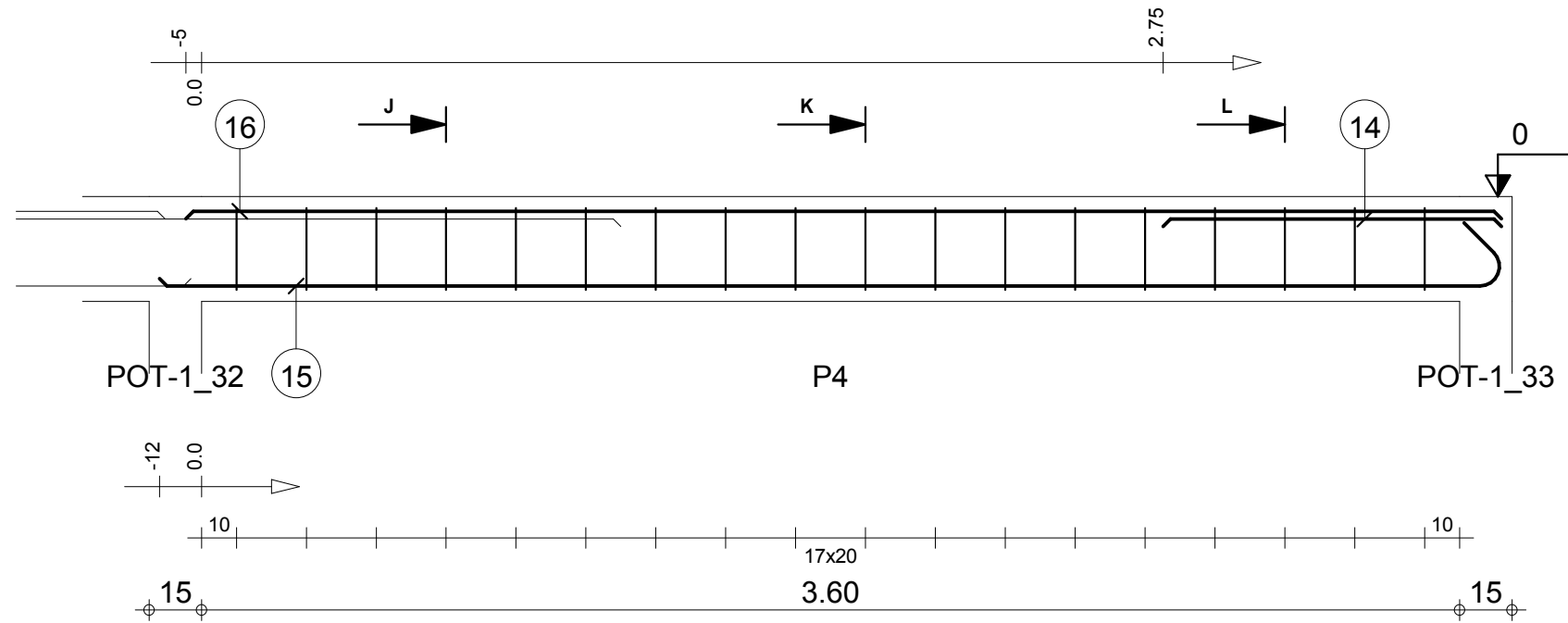
Acier HA 400 = 3.51 kg

Acier HA 400 = 15.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|------------|
| 14 | 2HA 12 | l=97 | 00 | 97 |
| 15 | 2HA 12 | l=4.03 | 00 | 3.84 |
| 16 | 2HA 10 | l=3.77 | 00 | 3.77 |
| 17 | 18HA 6 | l=88 | 31 | 14 8 24 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR7.LR: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.23 m3

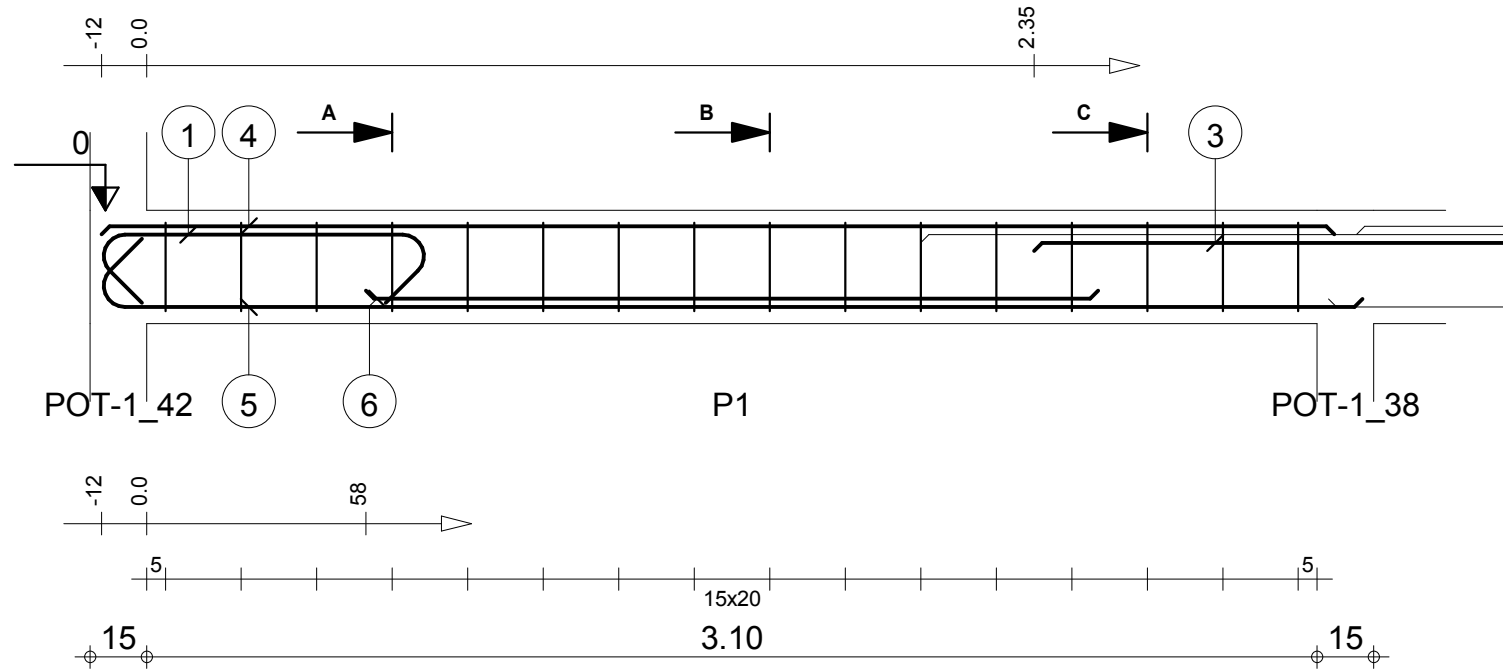
Acier HA 400 = 3.51 kg

Acier HA 400 = 13.5 kg

-1

MINHDU_BAMBOUTOS_POUTRES

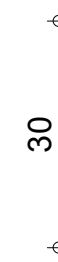
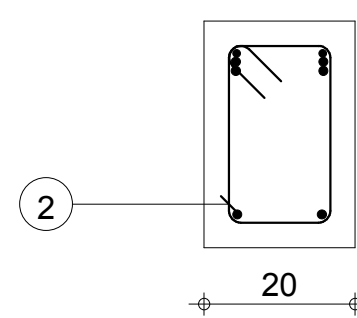
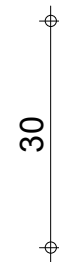
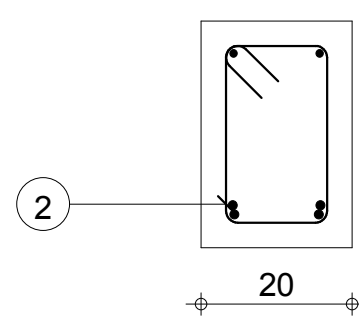
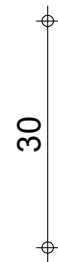
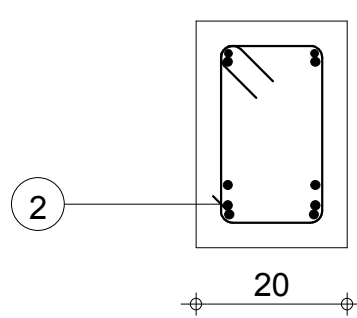
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.24 | 00 | |
| ② | 16HA 6 | l=88 | 31 | |
| ③ | 2HA 12 | l=1.34 | 00 | |
| ④ | 2HA 10 | l=3.27 | 00 | |
| ⑤ | 2HA 12 | l=3.53 | 00 | |
| ⑥ | 2HA 12 | l=1.94 | 00 | |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR.8LQ': P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.2 m3

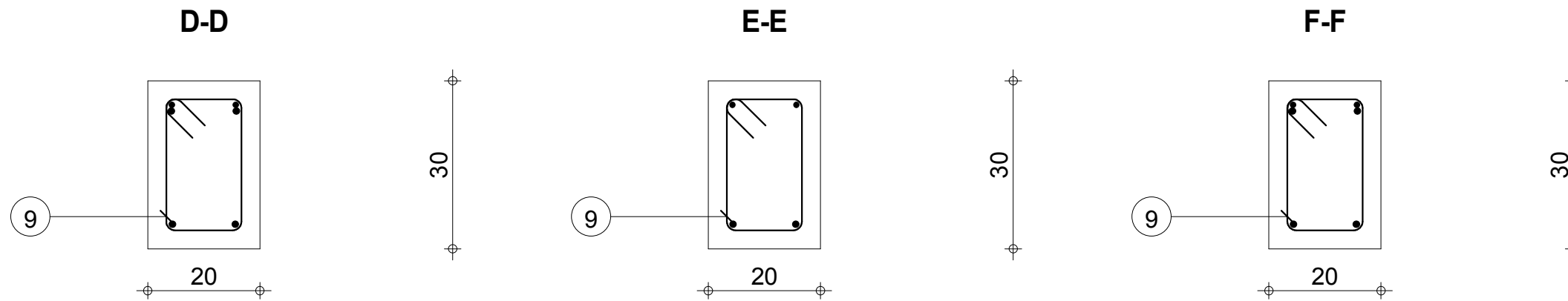
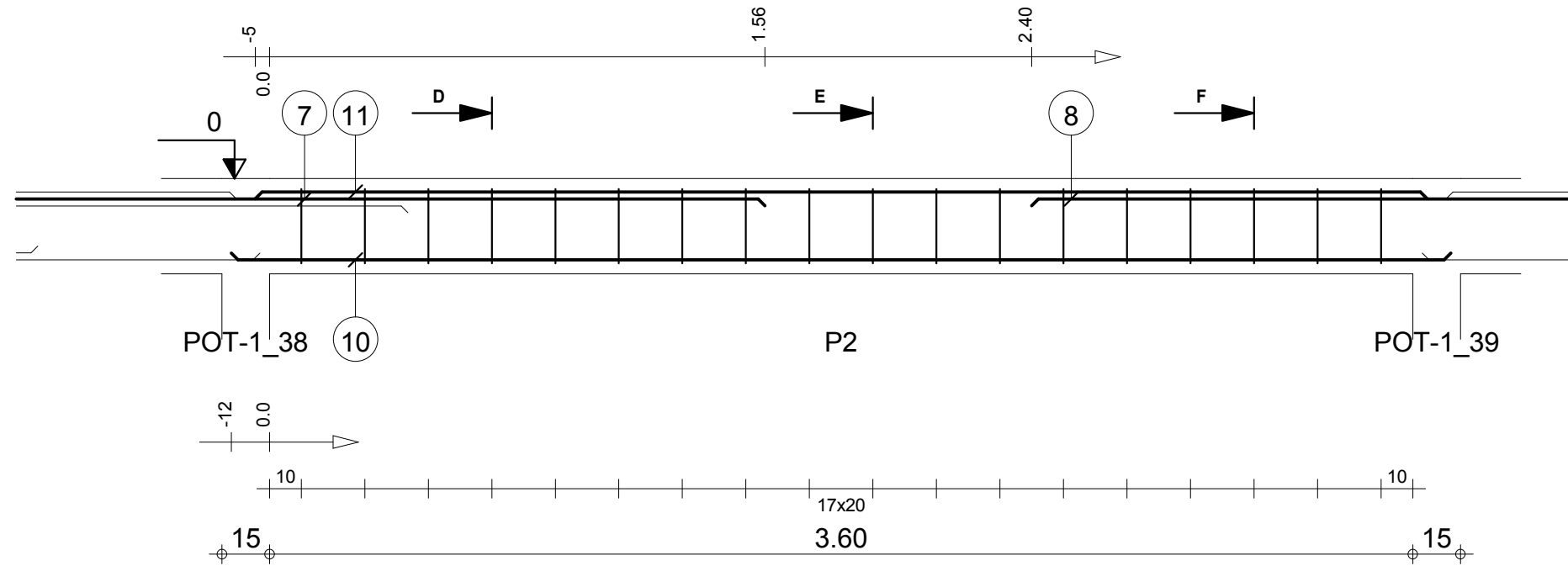
Acier HA 400 = 3.12 kg

Acier HA 400 = 18.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 7 | 2HA 12 | l=2.76 | 00 | 2.76 |
| 8 | 2HA 12 | l=2.55 | 00 | 2.55 |
| 9 | 18HA 6 | l=88 | 31 | |
| 10 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 11 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR.8LQ': P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.225 m3

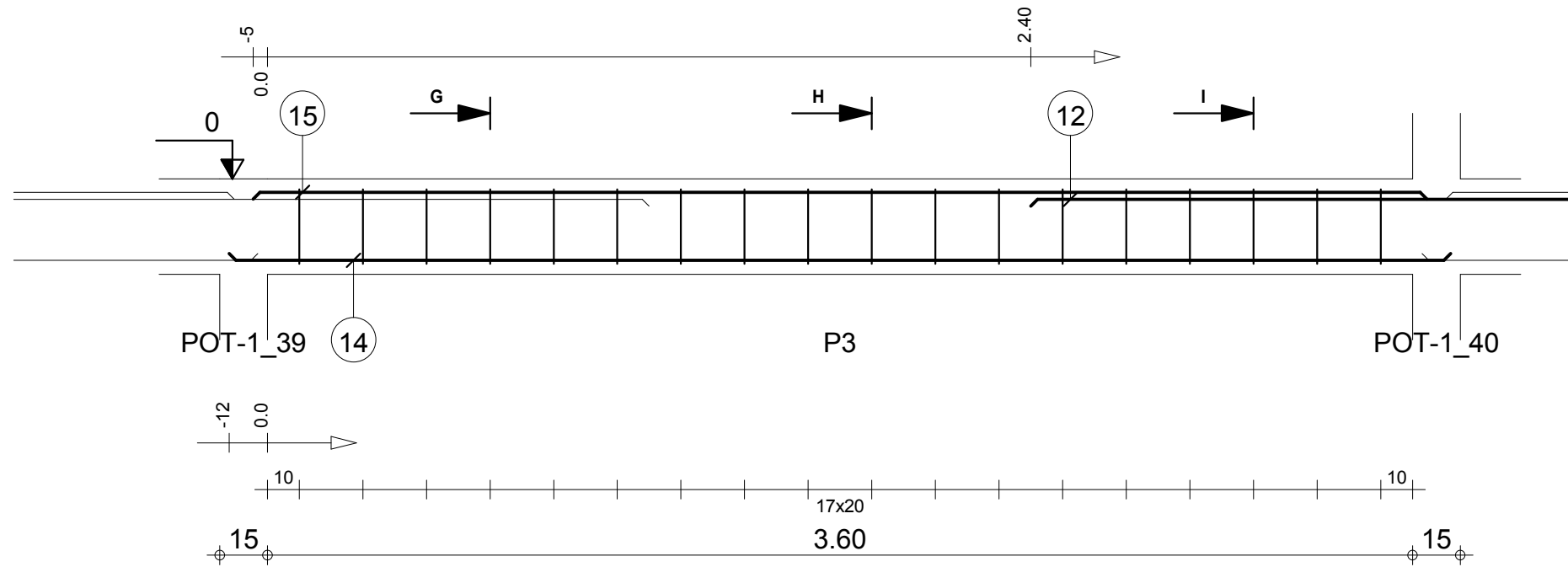
Acier HA 400 = 3.51 kg

Acier HA 400 = 20.8 kg

-1

MINHDU_BAMBOUTOS_POUTRES

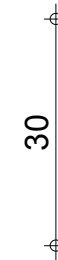
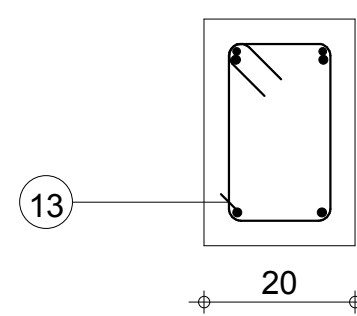
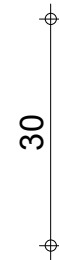
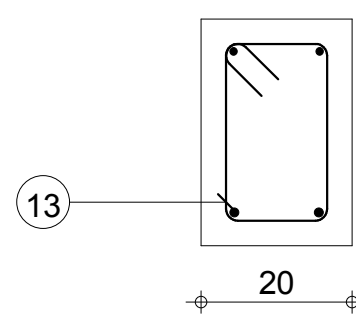
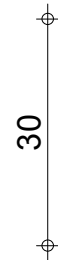
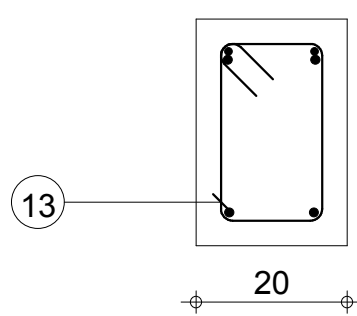
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 12 | 2HA 12 | l=2.24 | 00 | 2.24 |
| 13 | 18HA 6 | l=88 | 31 | |
| 14 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 15 | 2HA 10 | l=3.69 | 00 | 3.69 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR.8LQ': P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.225 m3

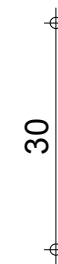
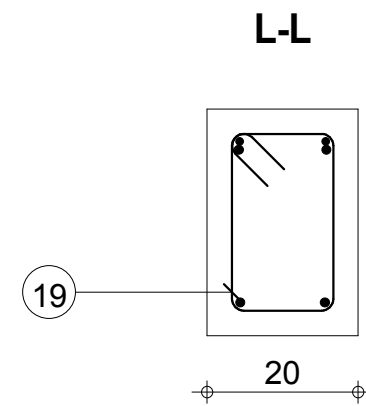
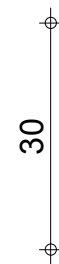
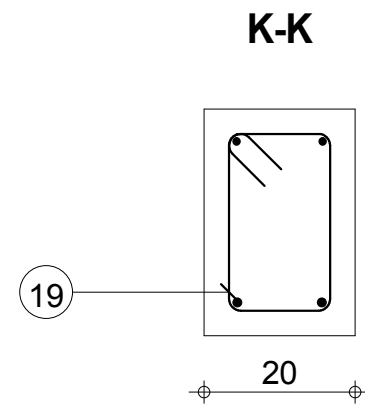
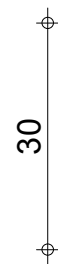
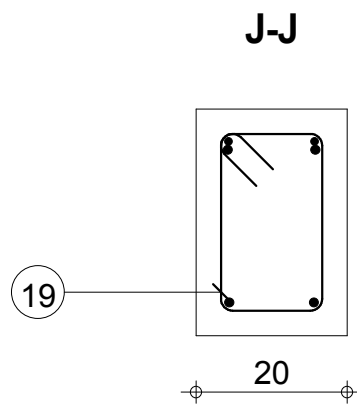
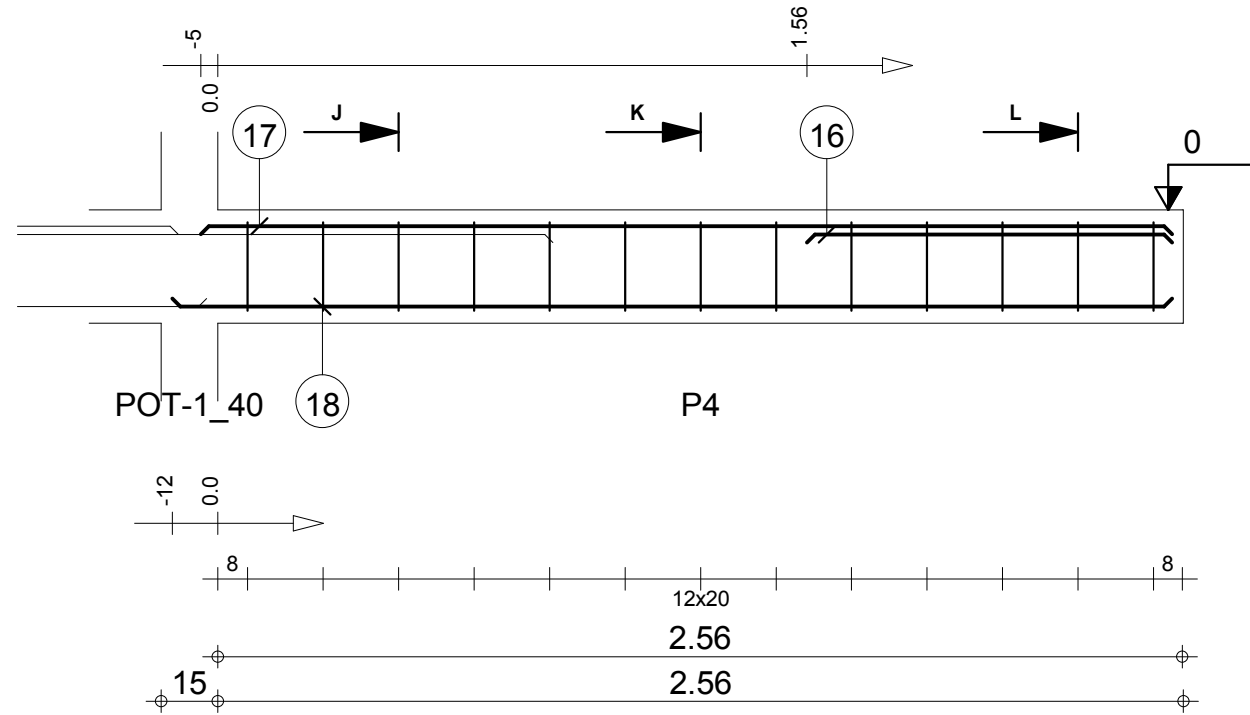
Acier HA 400 = 3.51 kg

Acier HA 400 = 15.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| 16 | 2HA 12 | l=97 | 00 97 |
| 17 | 2HA 10 | l=2.57 | 00 2.57 |
| 18 | 2HA 12 | l=2.65 | 00 2.65 |
| 19 | 13HA 6 | l=88 | 31 14 8 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

LGR.8LQ': P4
Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

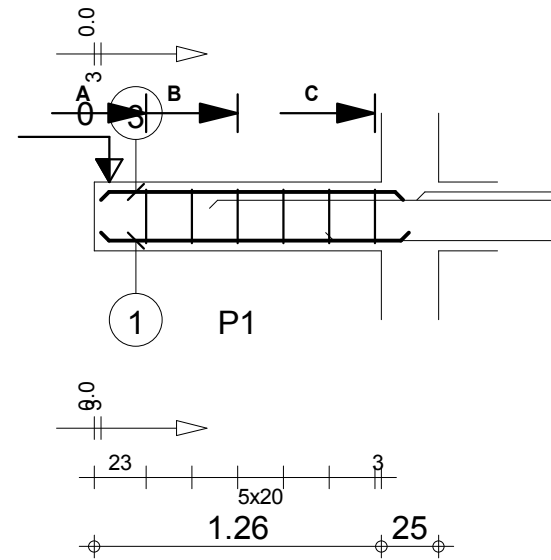
Page 4/4

Béton : BETON20 = 0.158 m3
Acier HA 400 = 2.53 kg
Acier HA 400 = 9.59 kg

-1

MINHDU_BAMBOUTOS_POUTRES

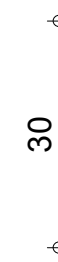
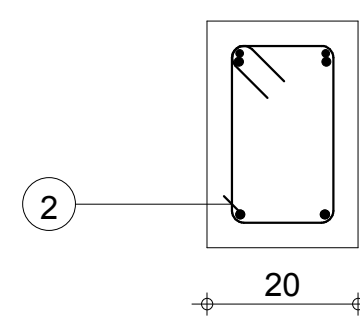
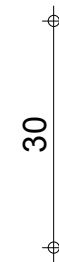
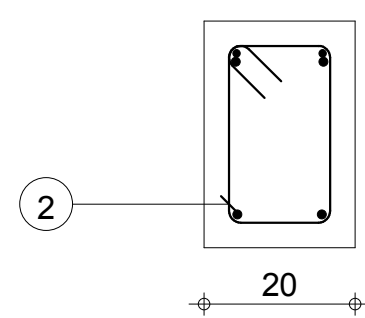
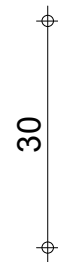
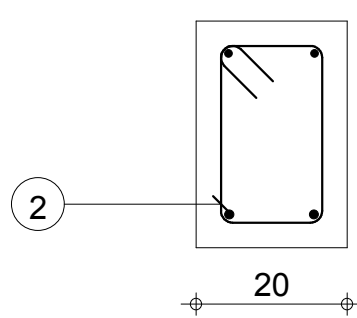
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=1.35 | 1.35 |
| ② | 6HA 6 | l=88 | |
| ③ | 2HA 10 | l=1.32 | 1.32 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR9.LP: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.0828 m3

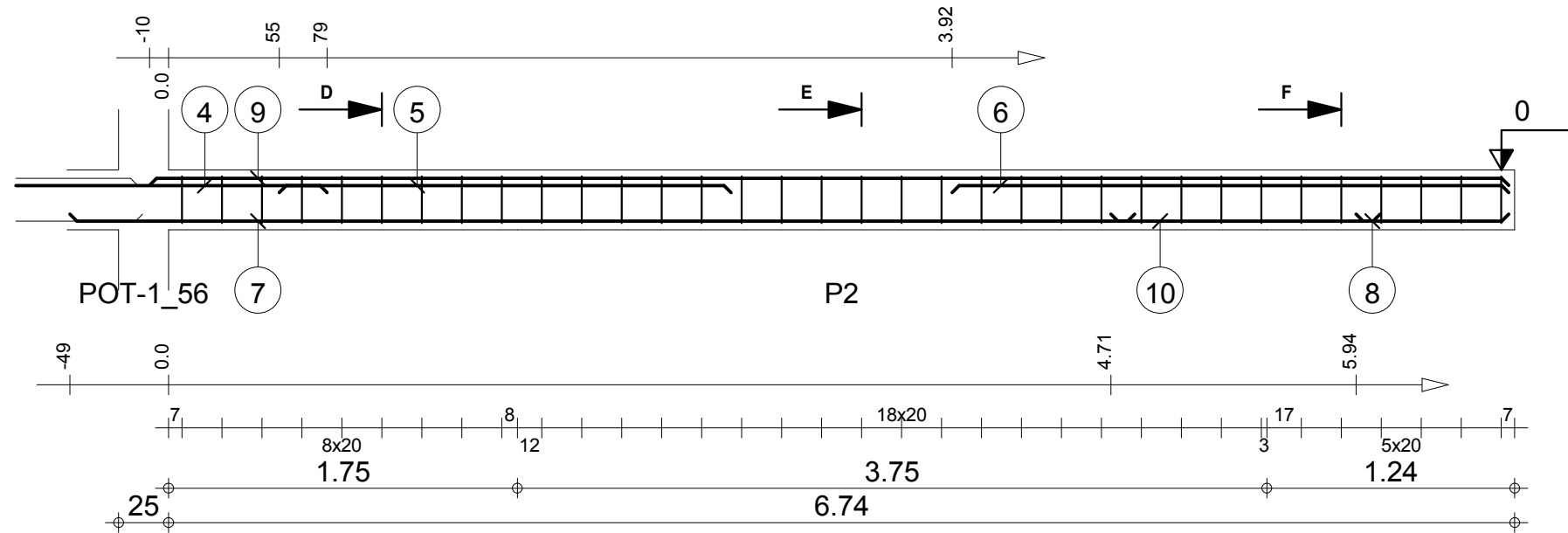
Acier HA 400 = 1.17 kg

Acier HA 400 = 4.02 kg

-1

MINHDU_BAMBOUTOS_POUTRES

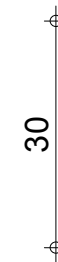
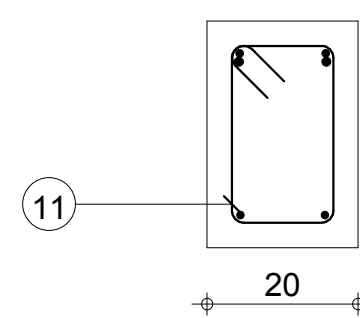
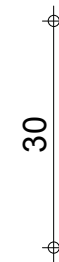
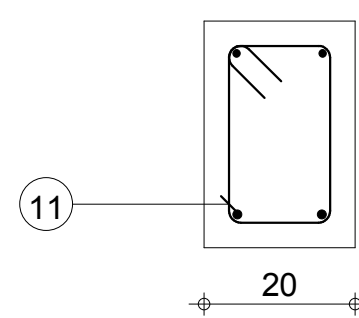
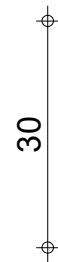
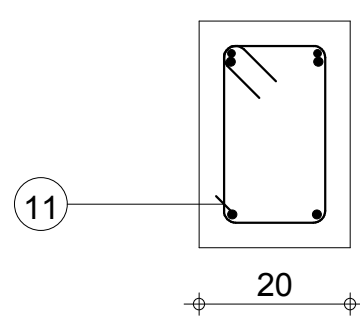
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ④ | 2HA 12 | l=1.79 | 00 | 1.79 |
| ⑤ | 2HA 12 | l=2.26 | 00 | 2.26 |
| ⑥ | 2HA 12 | l=2.78 | 00 | 2.78 |
| ⑦ | 2HA 12 | l=5.33 | 00 | 5.33 |
| ⑧ | 2HA 12 | l=76 | 00 | 76 |
| ⑨ | 2HA 10 | l=6.80 | 00 | 6.80 |
| ⑩ | 2HA 10 | l=1.35 | 00 | 1.35 |
| ⑪ | 34HA 6 | l=88* | 31 | |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

LGR9.LP: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.412 m3

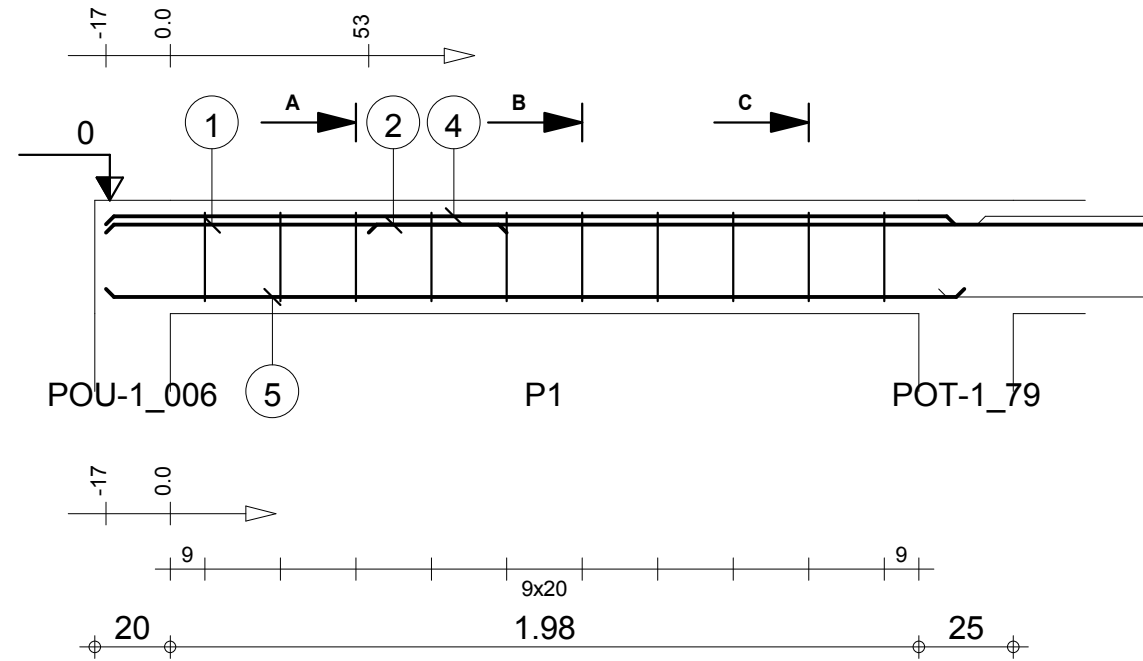
Acier HA 400 = 6.62 kg

Acier HA 400 = 33 kg

-1

MINHDU_BAMBOUTOS_POUTRES

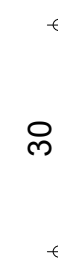
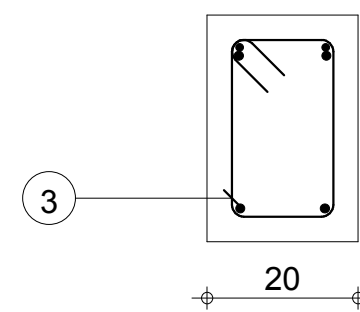
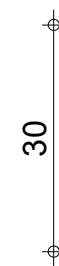
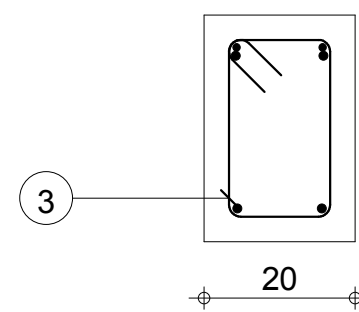
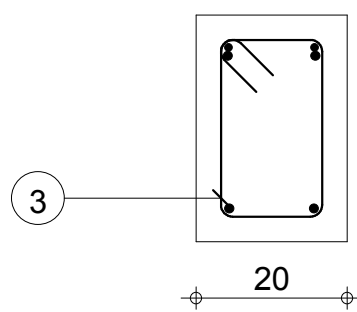
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ① | 2HA 12 | l=1.06 | 00 | 1.06 |
| ② | 2HA 12 | l=2.66 | 00 | 2.66 |
| ③ | 10HA 6 | l=88 | 31 | |
| ④ | 2HA 10 | l=2.25 | 00 | 2.25 |
| ⑤ | 2HA 12 | l=2.27 | 00 | 2.27 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR15.BC: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.138 m3

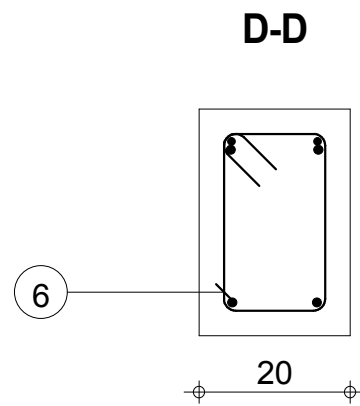
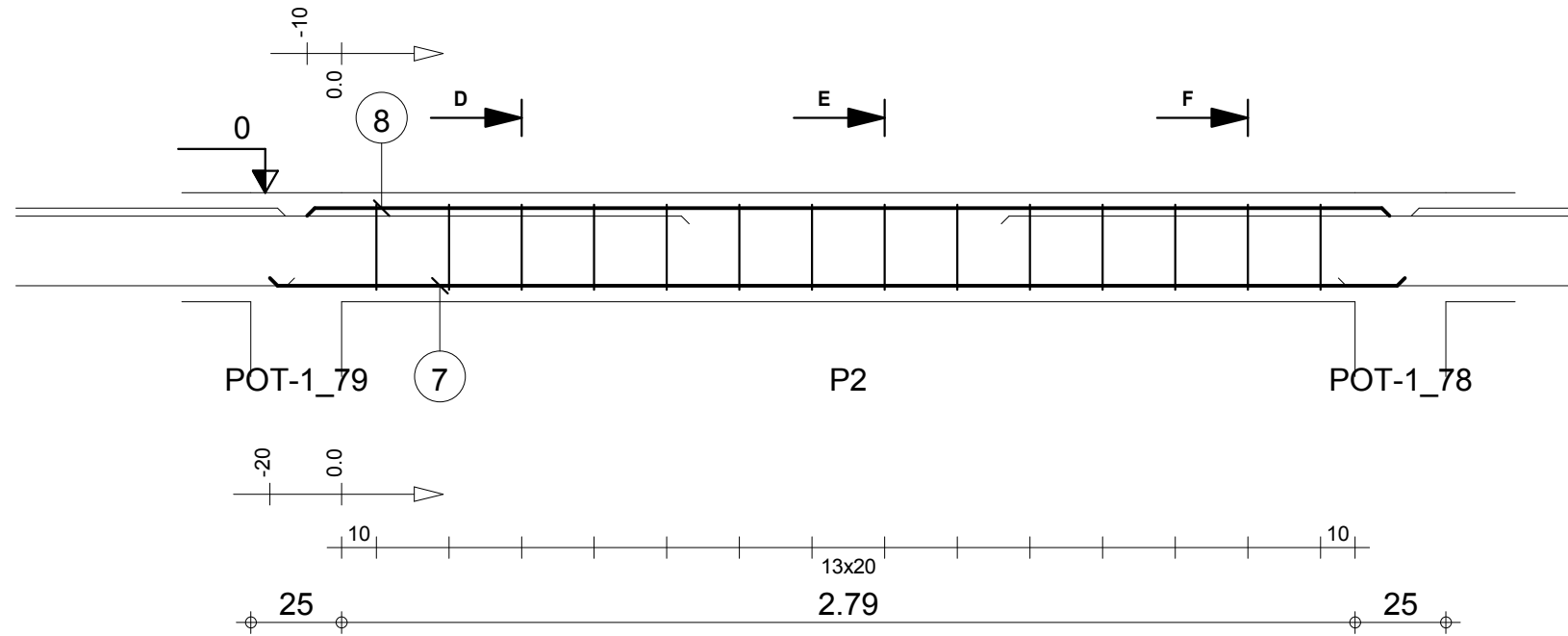
Acier HA 400 = 1.95 kg

Acier HA 400 = 13.4 kg

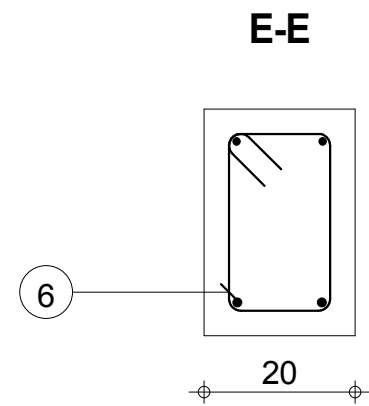
-1

MINHDU_BAMBOUTOS_POUTRES

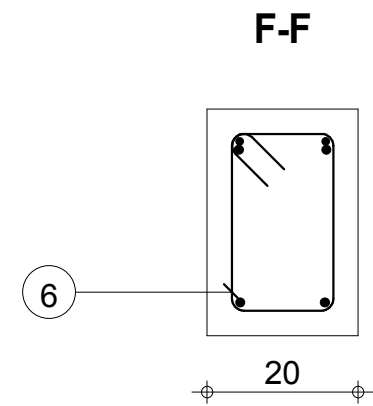
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 6 | 14HA 6 | l=88 | 31 | |
| 7 | 2HA 12 | l=3.13 | 00 | |
| 8 | 2HA 10 | l=2.98 | 00 | |



30



30



30

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR15.BC: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.182 m3

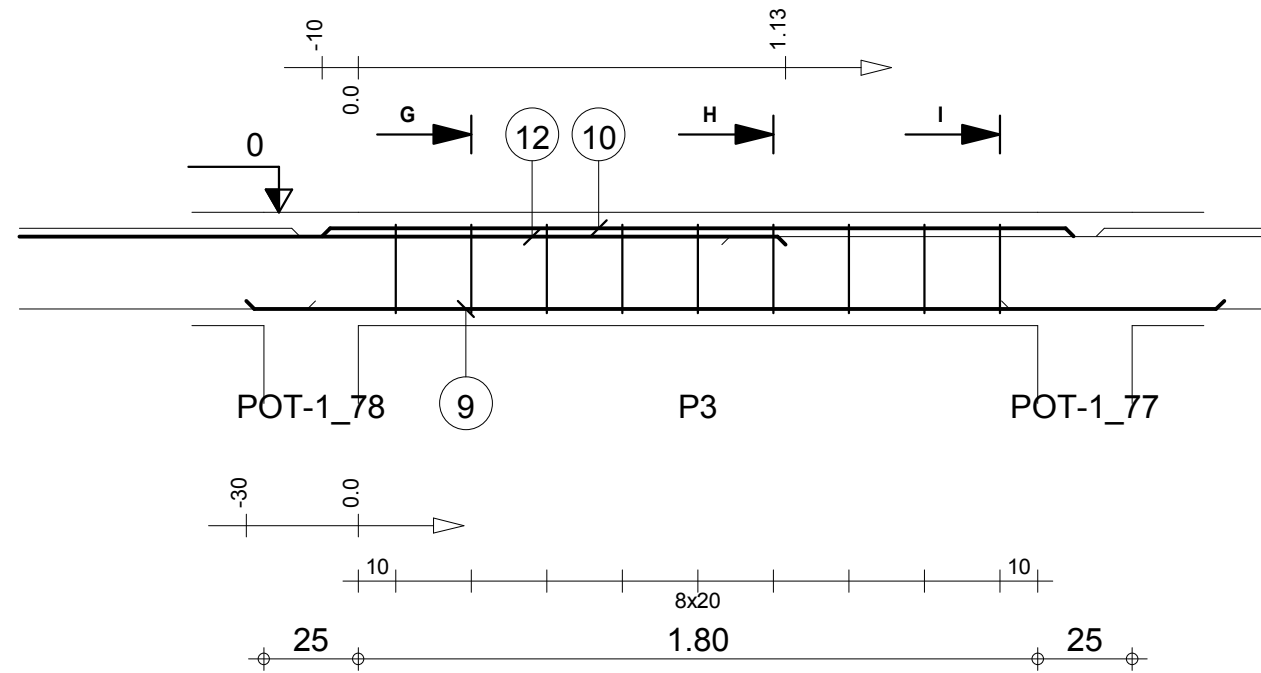
Acier HA 400 = 2.73 kg

Acier HA 400 = 9.22 kg

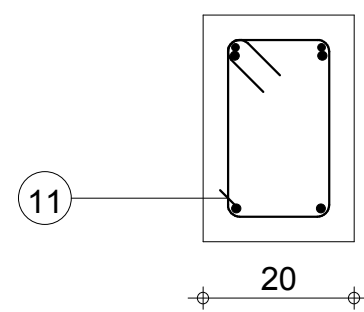
-1

MINHDU_BAMBOUTOS_POUTRES

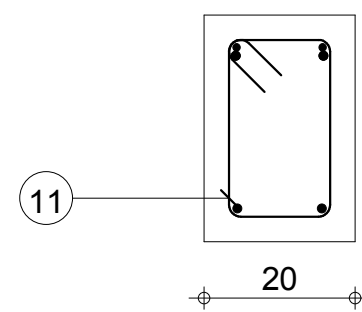
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| 9 | 2HA 12 | l=2.59 | 00 2.59 |
| 10 | 2HA 10 | l=1.99 | 00 1.99 |
| 11 | 9HA 6 | l=88 | 31 14 8 |
| 12 | 2HA 12 | l=2.36 | 00 2.36 |



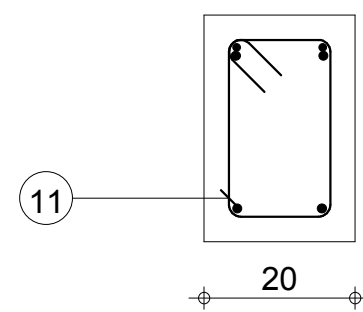
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR15.BC: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4


Béton : BETON20 = 0.123 m3

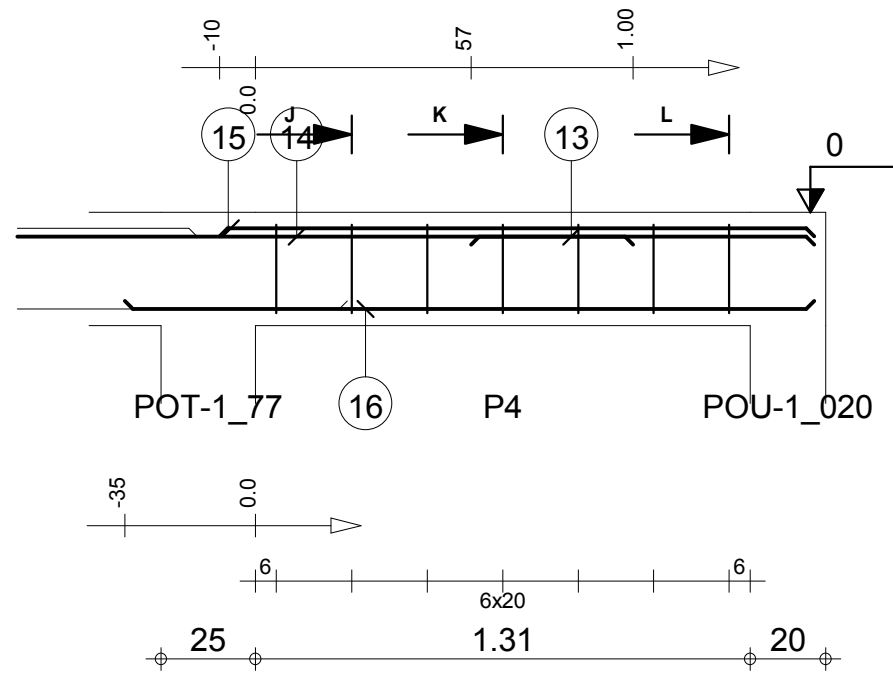
Acier HA 400 = 1.75 kg

Acier HA 400 = 11.2 kg

-1

MINHDU_BAMBOUTOS_POUTRES

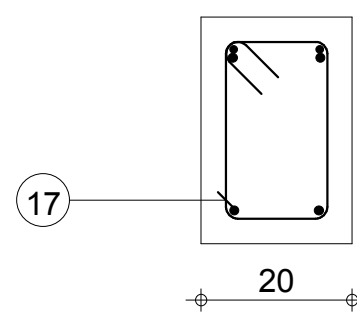
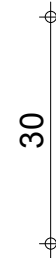
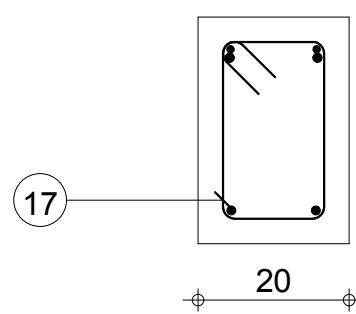
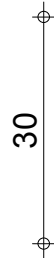
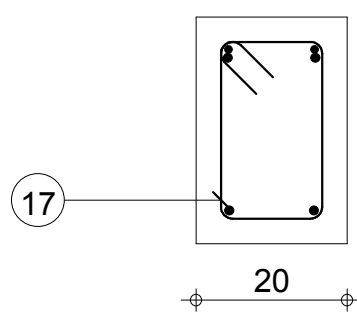
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 13 | 2HA 12 | l=91 | 00 | 91 |
| 14 | 2HA 12 | l=2.09 | 00 | 2.09 |
| 15 | 2HA 10 | l=1.58 | 00 | 1.58 |
| 16 | 2HA 12 | l=1.83 | 00 | 1.83 |
| 17 | 7HA 6 | l=88 | 31 |  |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR15.BC: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.0981 m3

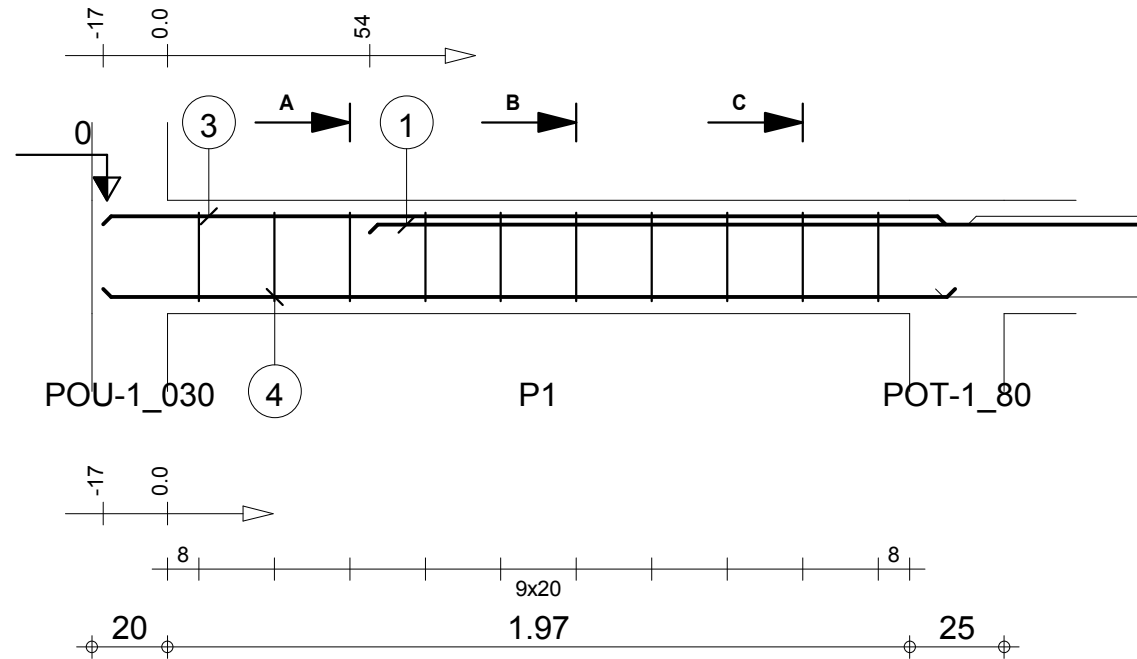
Acier HA 400 = 1.36 kg

Acier HA 400 = 10.5 kg

-1

MINHDU_BAMBOUTOS_POUTRES

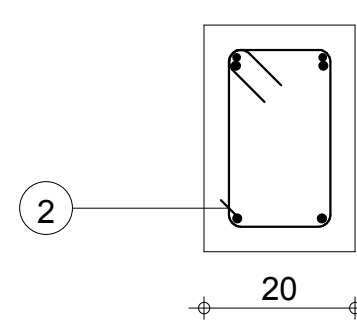
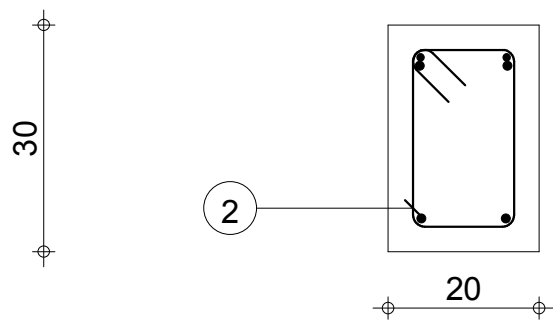
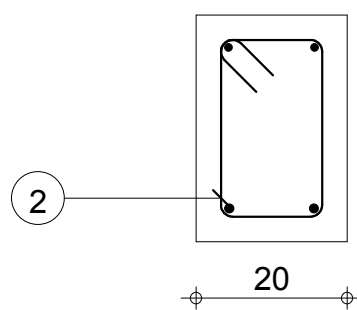
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| ① | 2HA 12 | l=2.64 | 00 2.64 |
| ② | 10HA 6 | l=88 | 31 |
| ③ | 2HA 10 | l=2.23 | 00 2.23 |
| ④ | 2HA 12 | l=2.26 | 00 2.26 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR16.P'R: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.137 m3

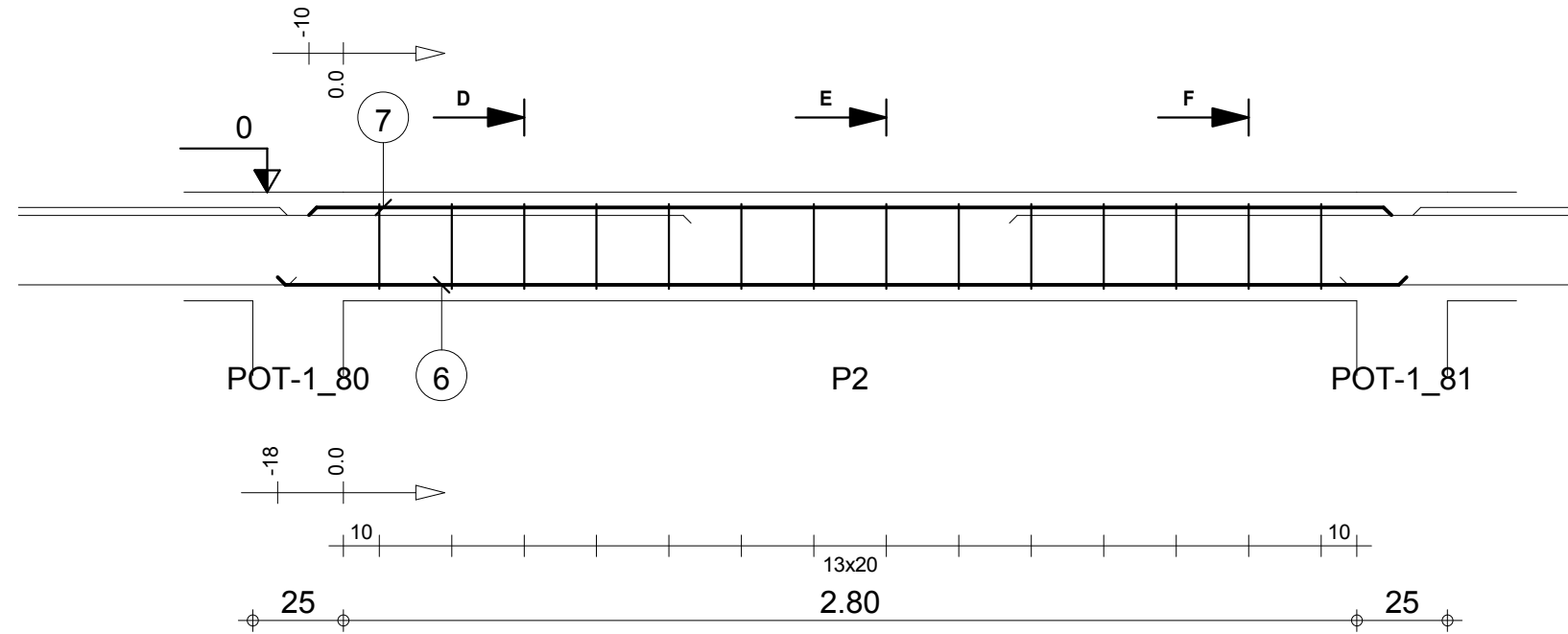
Acier HA 400 = 1.95 kg

Acier HA 400 = 11.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

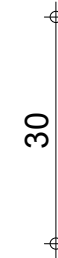
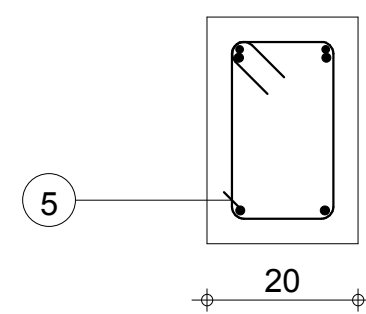
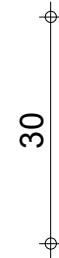
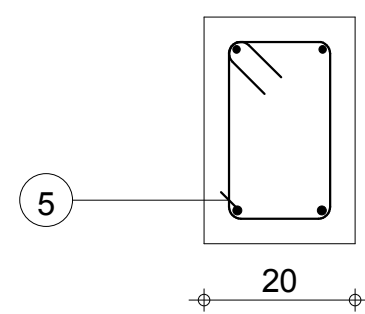
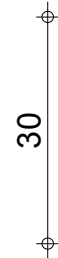
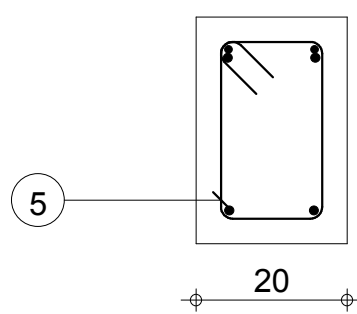
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 5 | 14HA 6 | l=88 | 31 | |
| 6 | 2HA 12 | l=3.12 | 00 | |
| 7 | 2HA 10 | l=2.99 | 00 | |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR16.P'R: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.183 m3

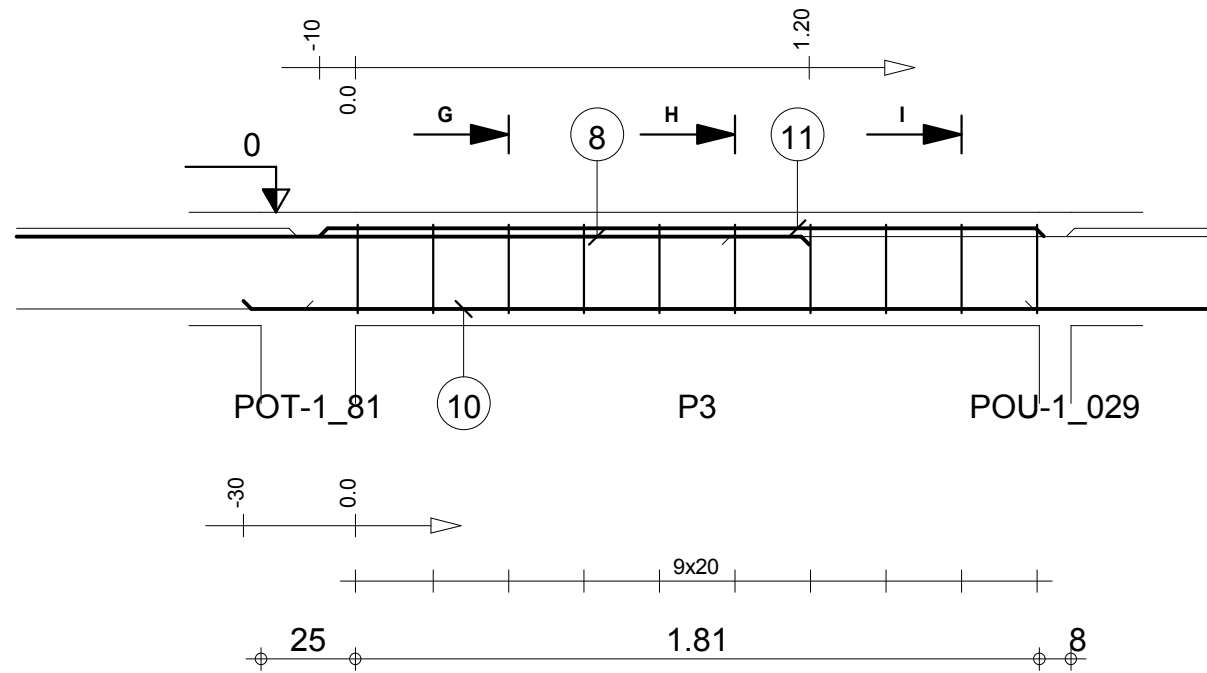
Acier HA 400 = 2.73 kg

Acier HA 400 = 9.22 kg

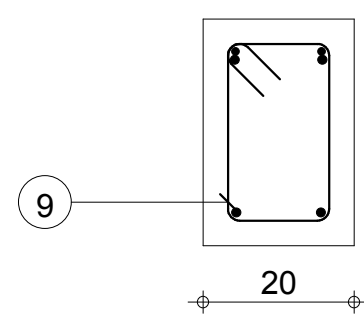
-1

MINHDU_BAMBOUTOS_POUTRES

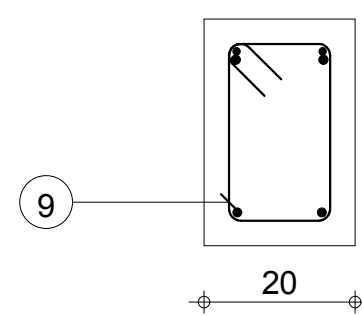
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 8 | 2HA 12 | l=2.41 | 00 | 2.41 |
| 9 | 10HA 6 | l=88 | 31 | |
| 10 | 2HA 12 | l=2.60 | 00 | 2.60 |
| 11 | 2HA 10 | l=1.92 | 00 | 1.92 |



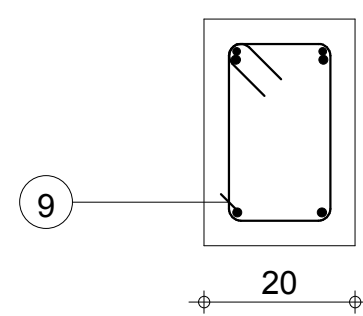
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR16.P'R: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5


Béton : BETON20 = 0.119 m3

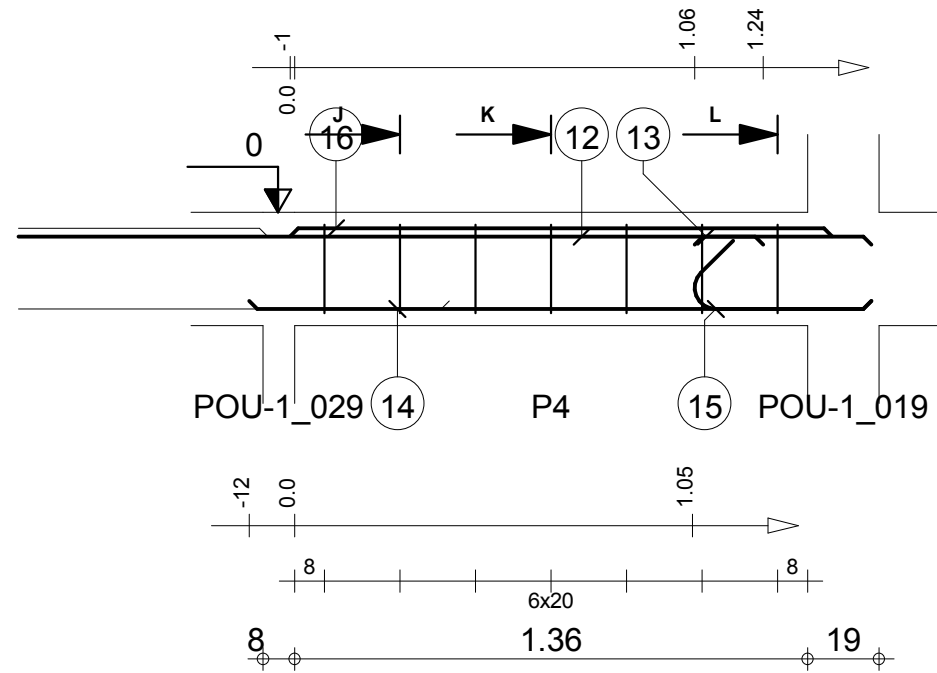
Acier HA 400 = 1.95 kg

Acier HA 400 = 11.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

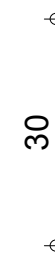
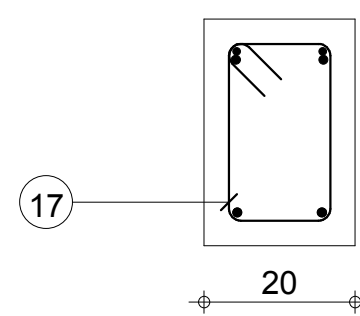
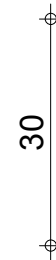
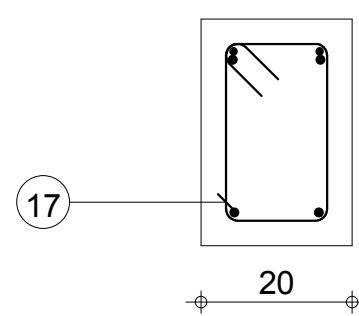
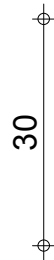
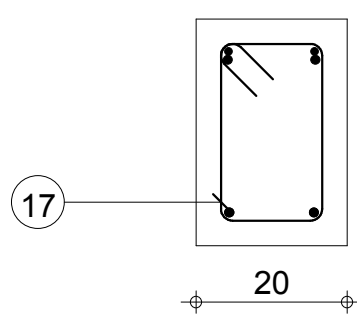
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 12 | 2HA 12 | l=2.17 | 00 | 2.16 |
| 13 | 2HA 12 | l=47 | 00 | 47 |
| 14 | 2HA 12 | l=1.65 | 00 | 1.65 |
| 15 | 2HA 12 | l=66 | 00 | 47 |
| 16 | 2HA 10 | l=1.44 | 00 | 1.44 |
| 17 | 7HA 6 | l=88 | 31 |  |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR16.P'R: P4

Section 20x30

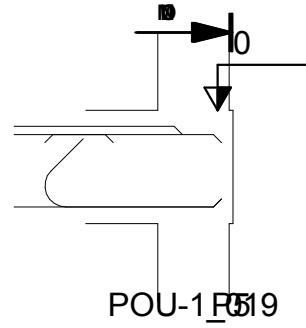
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.0897 m3

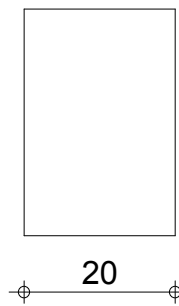
Acier HA 400 = 1.36 kg

Acier HA 400 = 10.5 kg



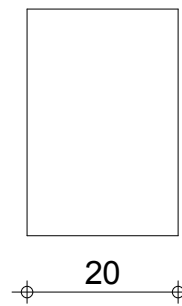
19

M-M



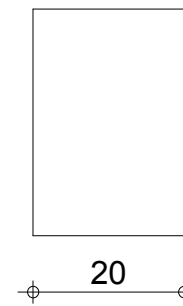
30

N-N



30

O-O



30

Tél.

Fax

Echelle pour la vue 1:20

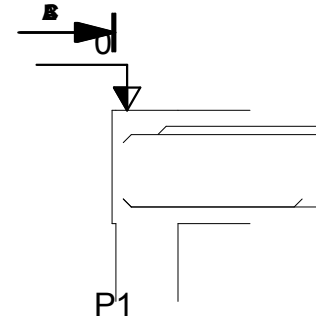
Echelle pour la section 1:10

LGR16.P'R: P5

Section 20x30

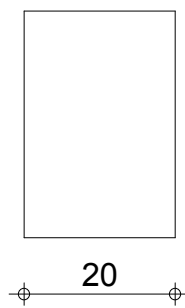
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00627 m3

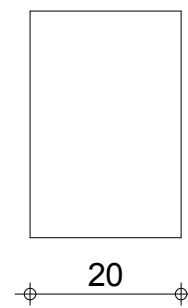


1 17

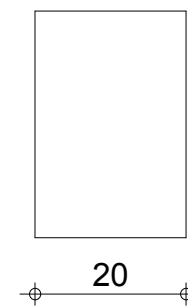
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR1014: P1


Section 20x30

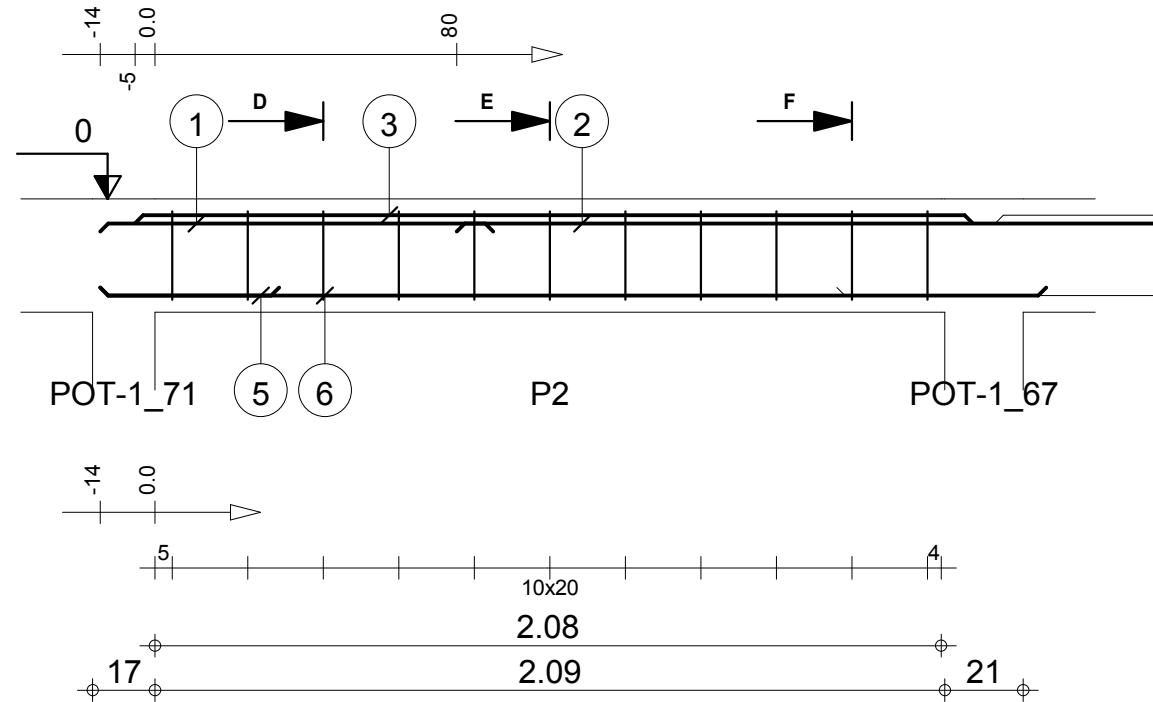
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

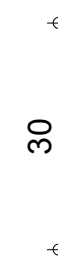
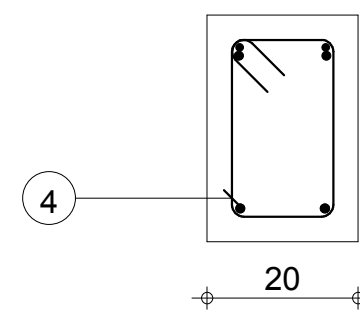
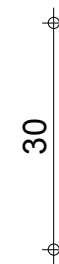
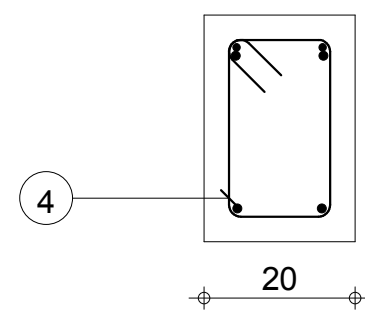
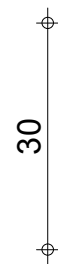
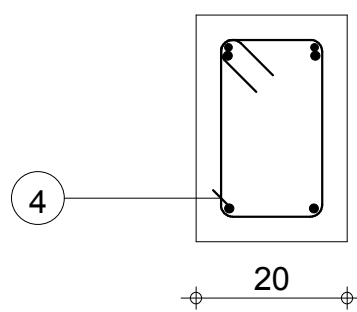
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.04 | 00 | 1.04 |
| ② | 2HA 12 | l=2.58 | 00 | 2.58 |
| ③ | 2HA 10 | l=2.22 | 00 | 2.22 |
| ④ | 11HA 6 | l=88 | 31 |  |
| ⑤ | 2HA 12 | l=47 | 00 | 47 |
| ⑥ | 2HA 12 | l=2.51 | 00 | 2.51 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR1014: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.137 m3

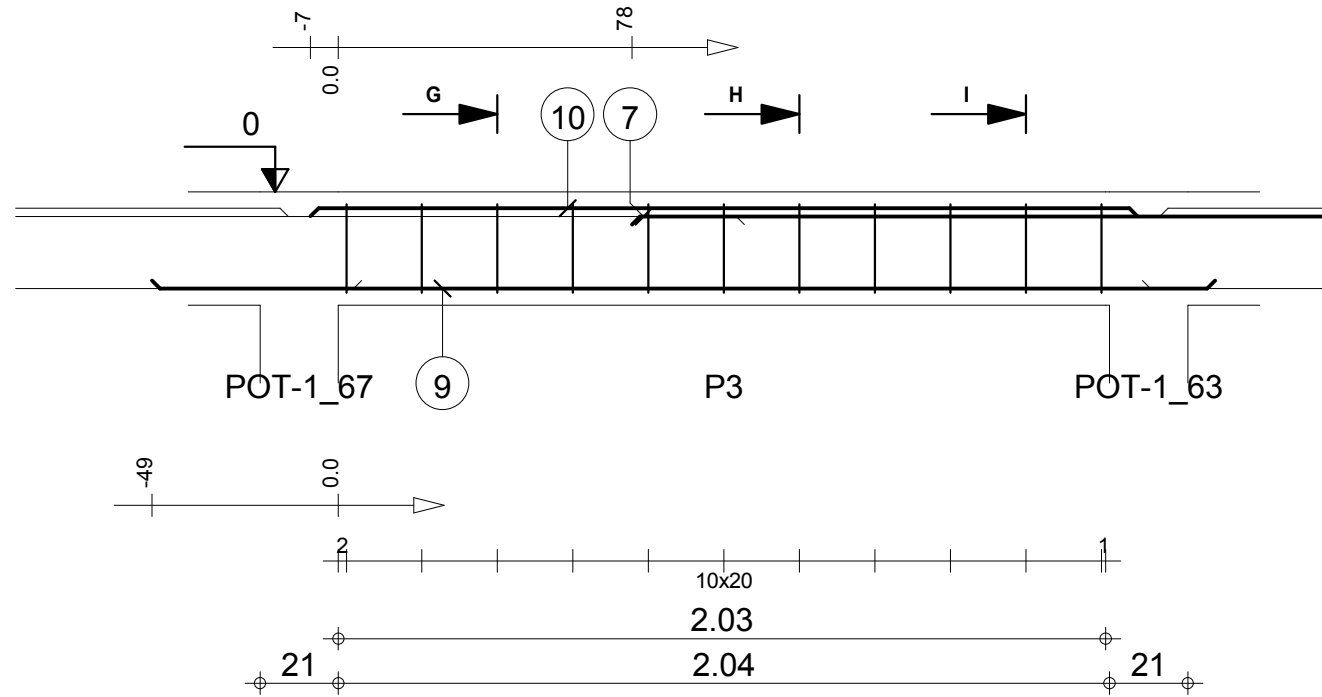
Acier HA 400 = 2.14 kg

Acier HA 400 = 14.5 kg

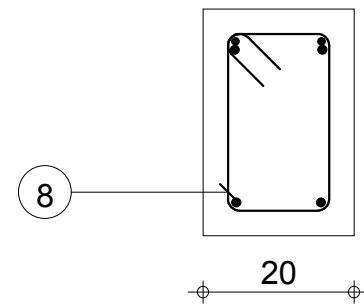
-1

MINHDU_BAMBOUTOS_POUTRES

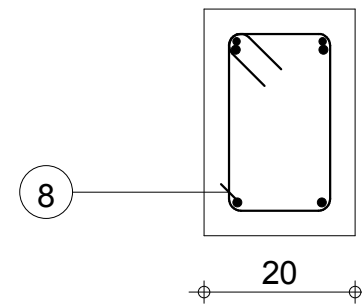
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=2.58 | 00 | 2.58 |
| 8 | 11HA 6 | l=88 | 31 | |
| 9 | 2HA 12 | l=2.82 | 00 | 2.82 |
| 10 | 2HA 10 | l=2.19 | 00 | 2.19 |



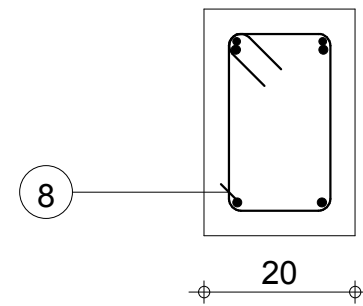
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR1014: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.135 m3

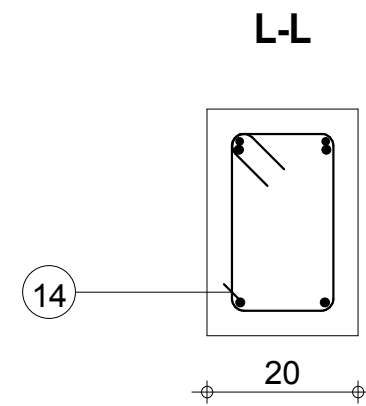
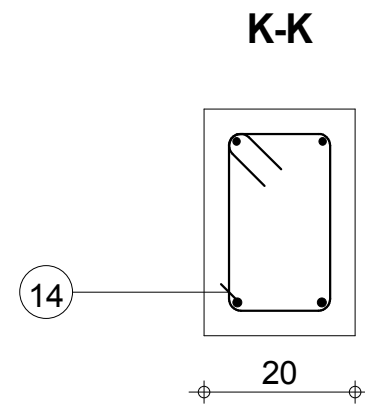
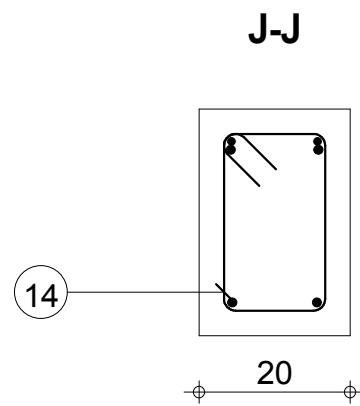
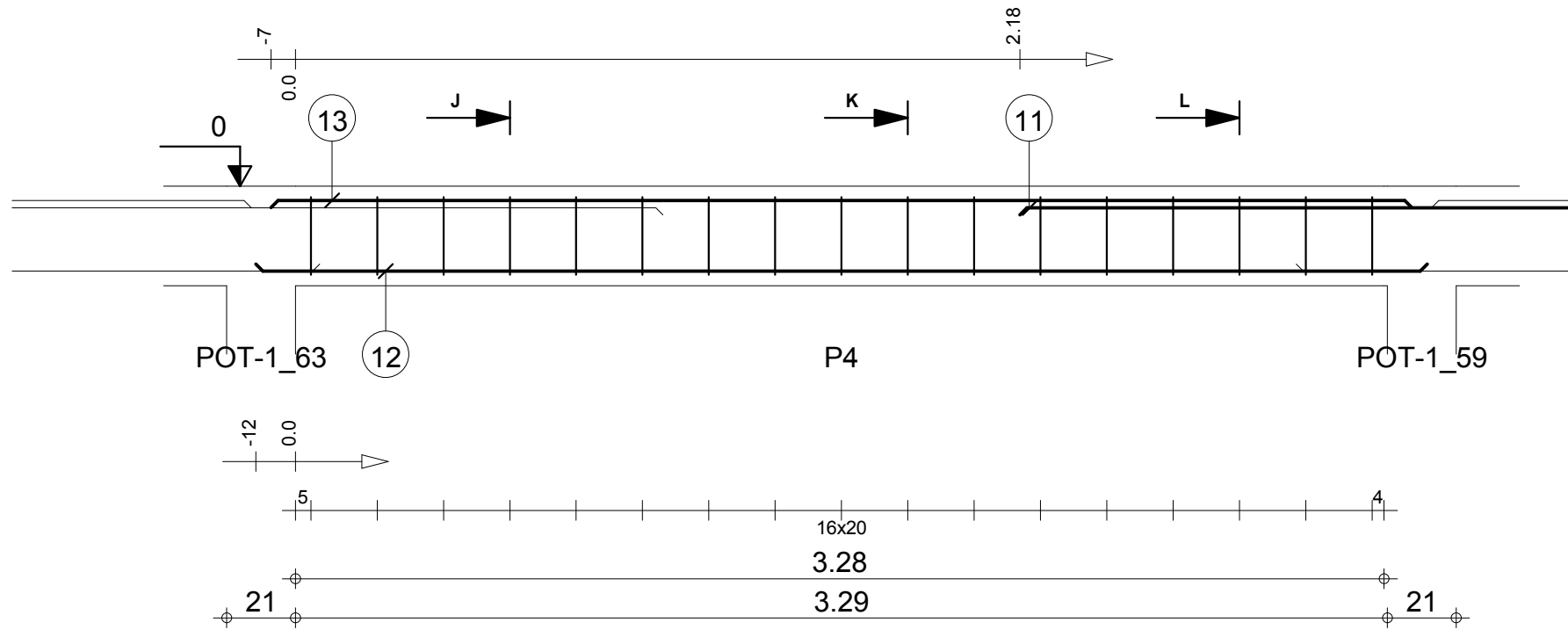
Acier HA 400 = 2.14 kg

Acier HA 400 = 12.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|------------------|
| 11 | 2HA 12 | l=2.40 | 00 2.40 |
| 12 | 2HA 12 | l=3.53 | 00 3.53 |
| 13 | 2HA 10 | l=3.44 | 00 3.44 |
| 14 | 17HA 6 | l=88 | 31 14 8 24 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR1014: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.21 m3

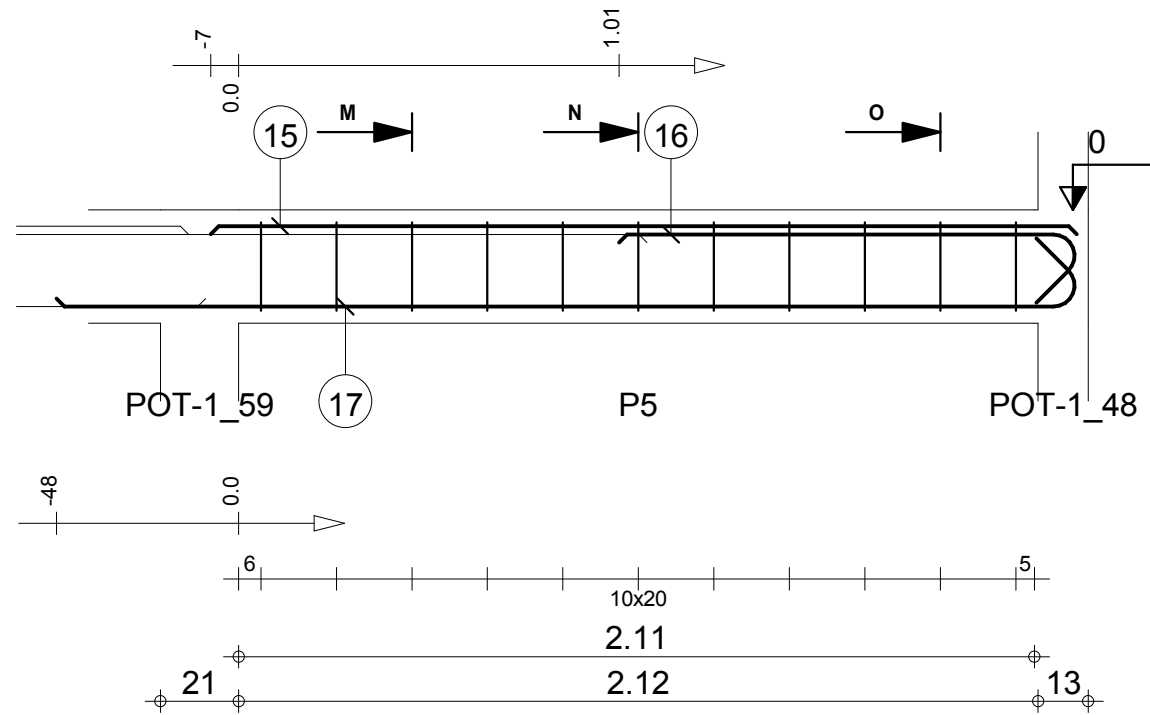
Acier HA 400 = 3.31 kg

Acier HA 400 = 14.8 kg

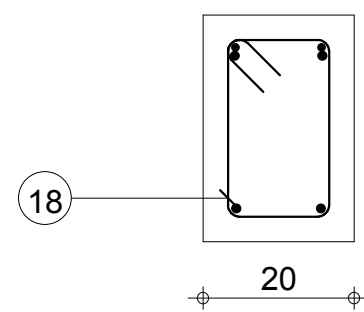
-1

MINHDU_BAMBOUTOS_POUTRES

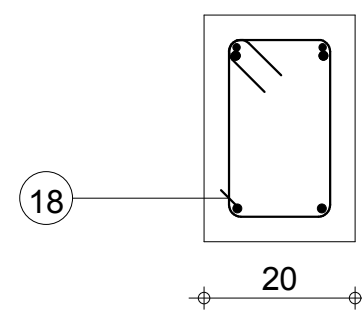
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 2HA 10 | l=2.29 | 00 | 2.29 |
| 16 | 2HA 12 | l=1.40 | 00 | 1.21 |
| 17 | 2HA 12 | l=2.89 | 00 | 2.70 |
| 18 | 11HA 6 | l=88 | 31 | |



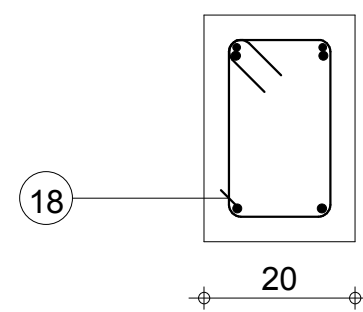
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGR1014: P5

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.141 m3

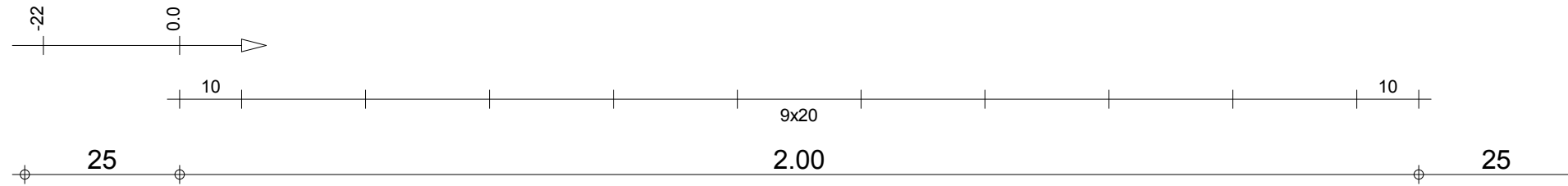
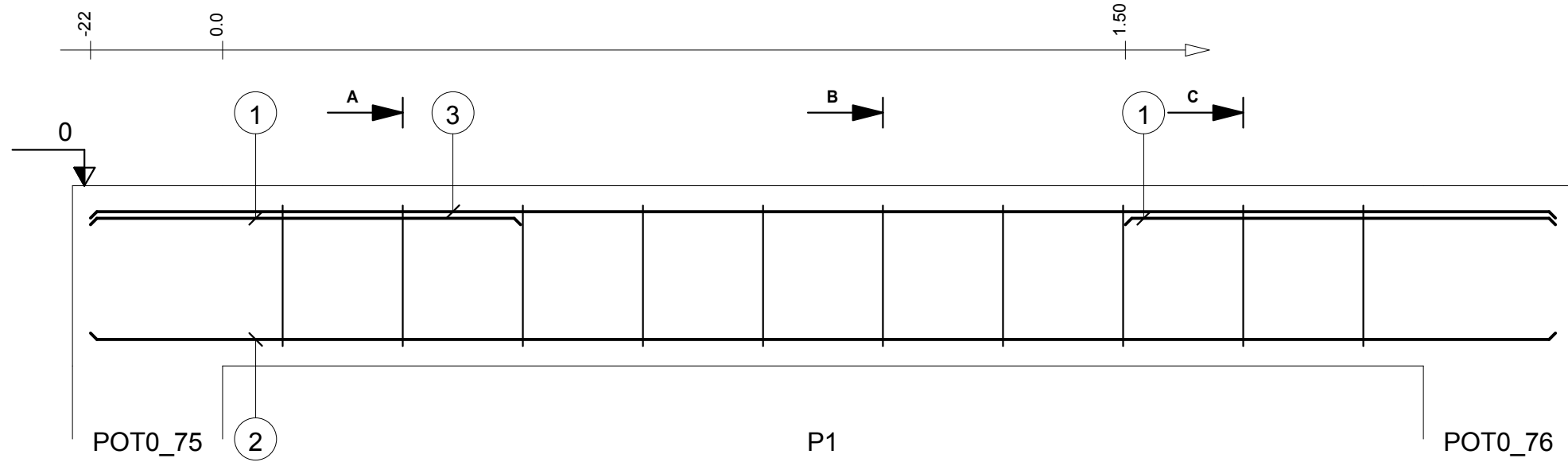
Acier HA 400 = 2.14 kg

Acier HA 400 = 10.5 kg

-1

MINHDU_BAMBOUTOS_POUTRES

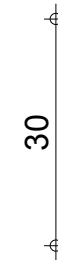
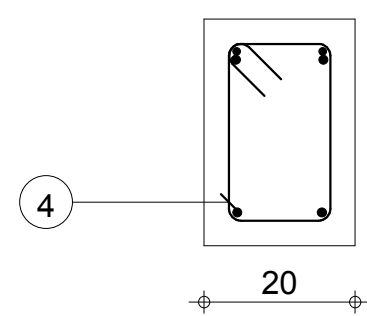
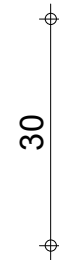
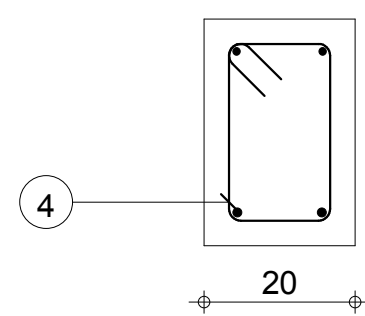
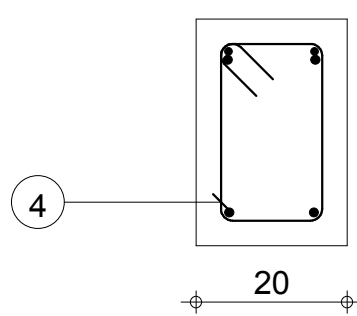
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| ① | 4HA 12 | l=72 | 00 72 |
| ② | 2HA 12 | l=2.44 | 00 2.44 |
| ③ | 2HA 10 | l=2.44 | 00 2.44 |
| ④ | 10HA 6 | l=88 | 31 14 8 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGR1314: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.15 m3

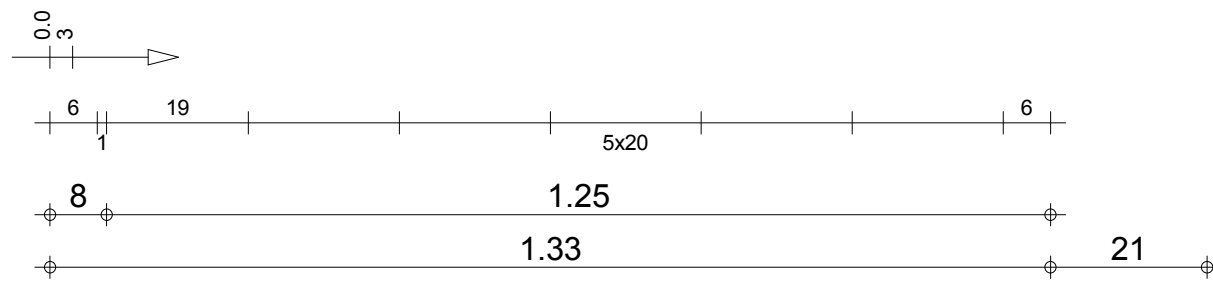
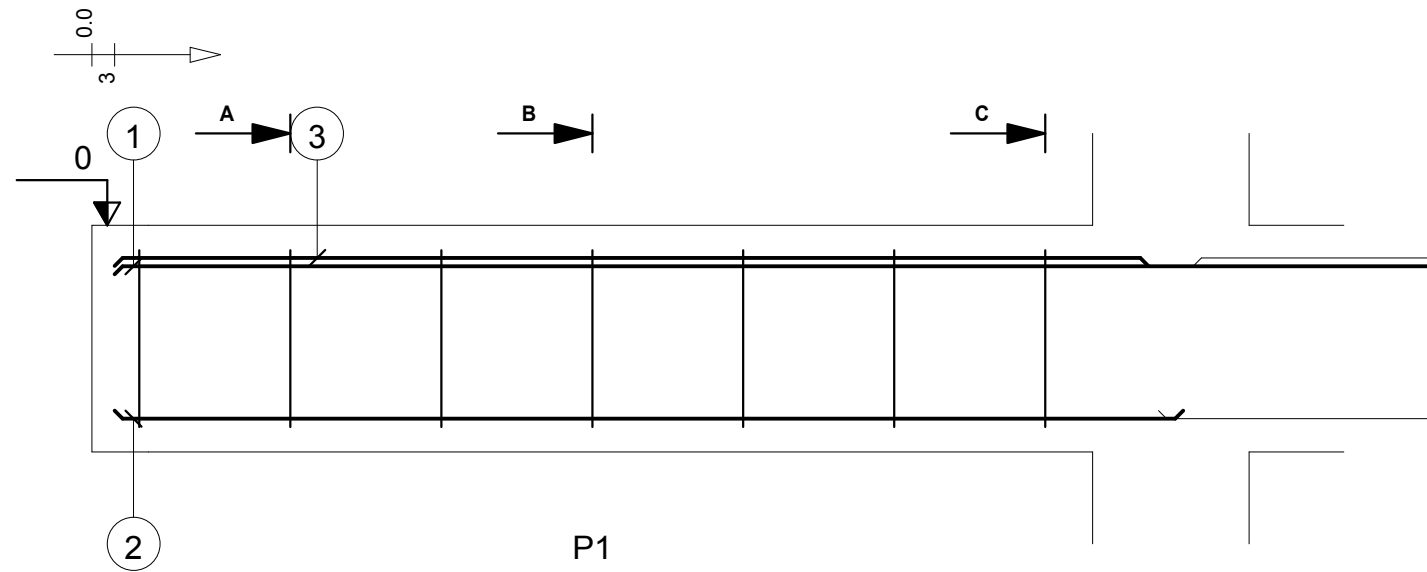
Acier HA 400 = 1.95 kg

Acier HA 400 = 9.88 kg

-1

MINHDU_BAMBOUTOS_POUTRES

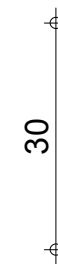
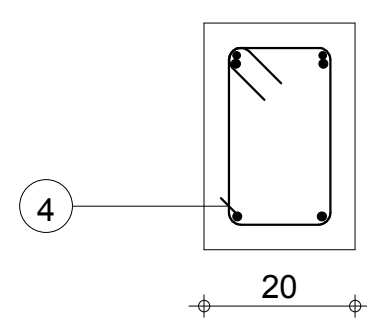
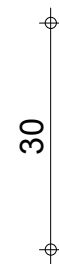
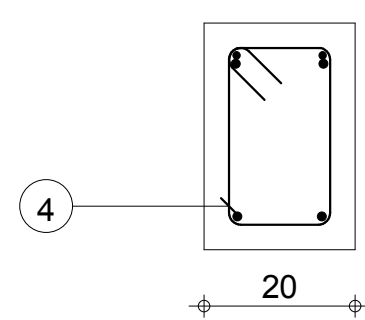
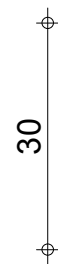
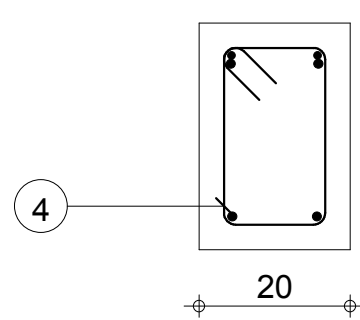
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| ① | 2HA 12 | l=2.79 | 00 2.79 |
| ② | 2HA 12 | l=1.42 | 00 1.42 |
| ③ | 2HA 10 | l=1.37 | 00 1.37 |
| ④ | 7HA 6 | l=88 | 31 14 8 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGRA.35: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2


Béton : BETON20 = 0.0857 m3

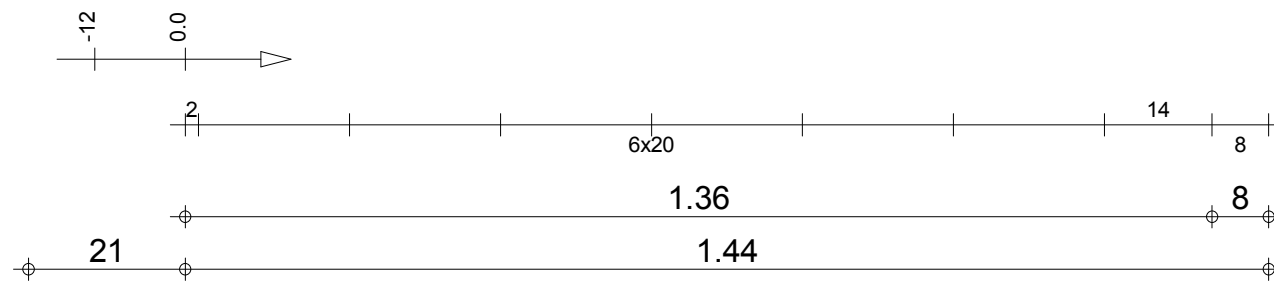
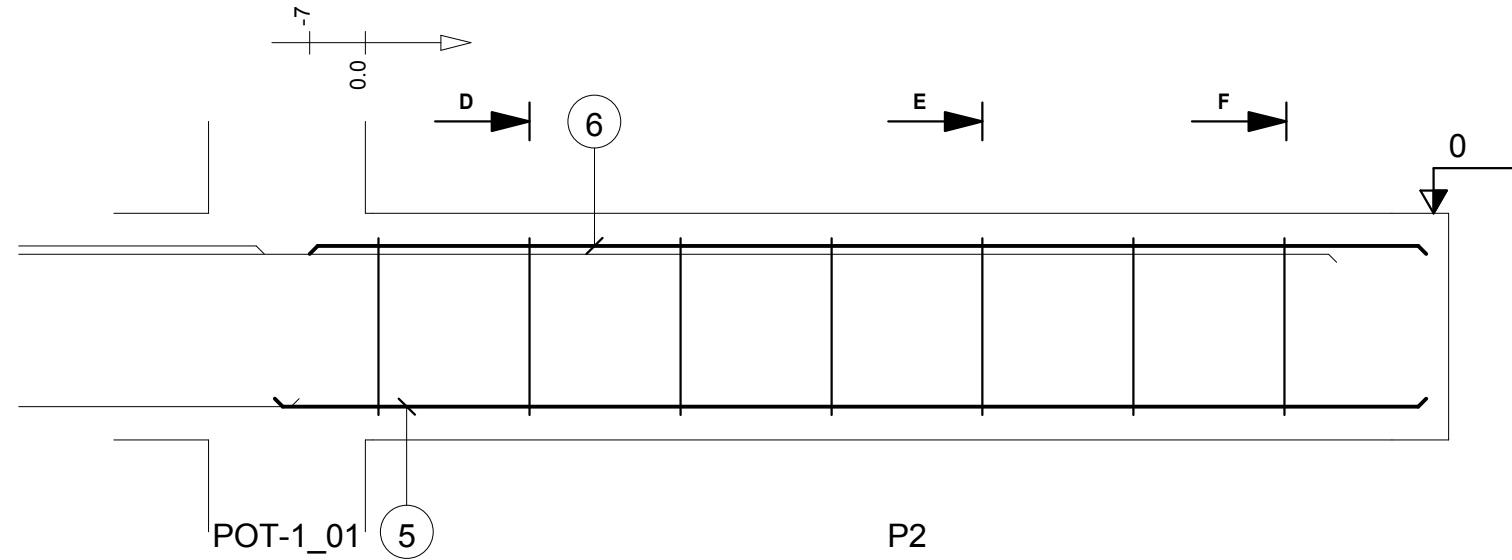
Acier HA 400 = 1.36 kg

Acier HA 400 = 9.15 kg

-1

MINHDU_BAMBOUTOS_POUTRES

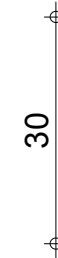
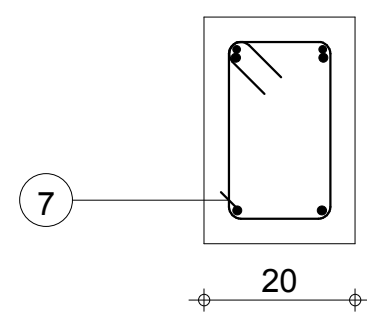
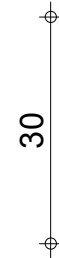
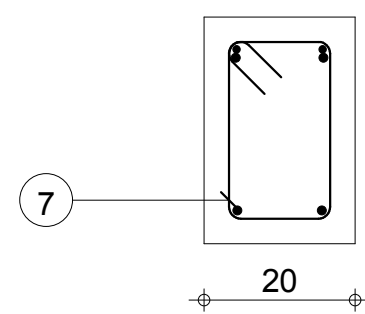
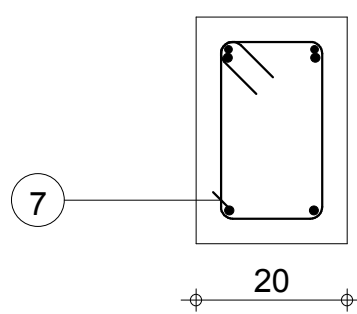
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 5 | 2HA 12 | l=1.53 | 00 | 1.53 |
| 6 | 2HA 10 | l=1.48 | 00 | 1.48 |
| 7 | 7HA 6 | l=88 | 31 |  |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGRA.35: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.0923 m3

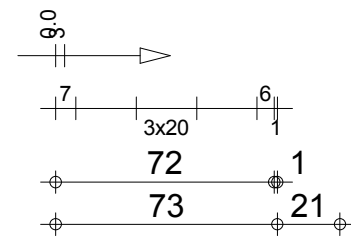
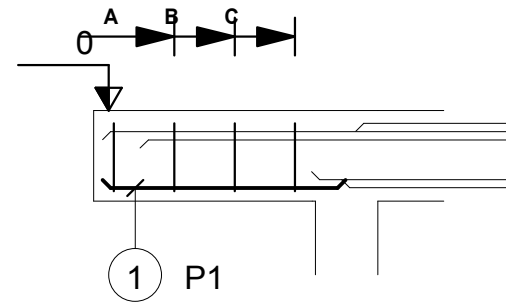
Acier HA 400 = 1.36 kg

Acier HA 400 = 4.53 kg

-1

MINHDU_BAMBOUTOS_POUTRES

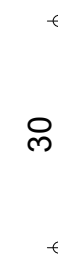
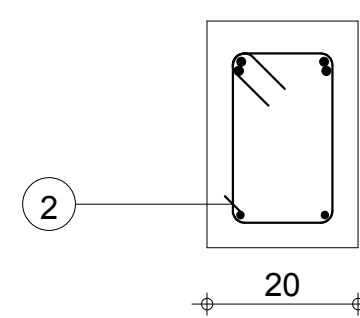
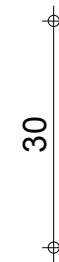
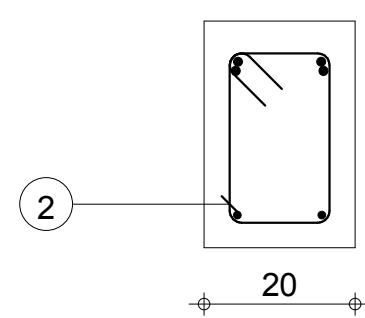
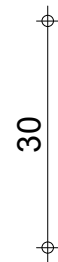
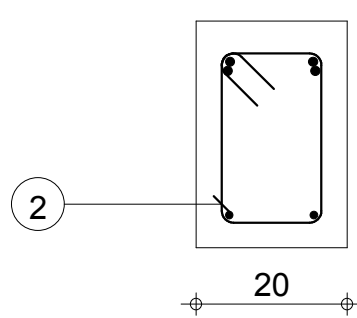
| Pos. | Armature | Code | Forme |
|------|----------|------|---------|
| ① | 2HA 10 | I=80 | 80 |
| ② | 4HA 6 | I=85 | 14 8 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRB.115: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.0503 m3

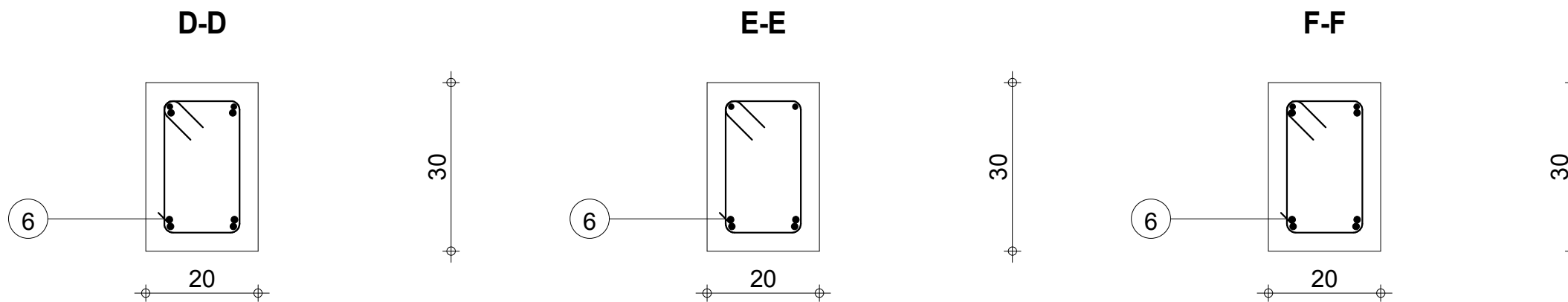
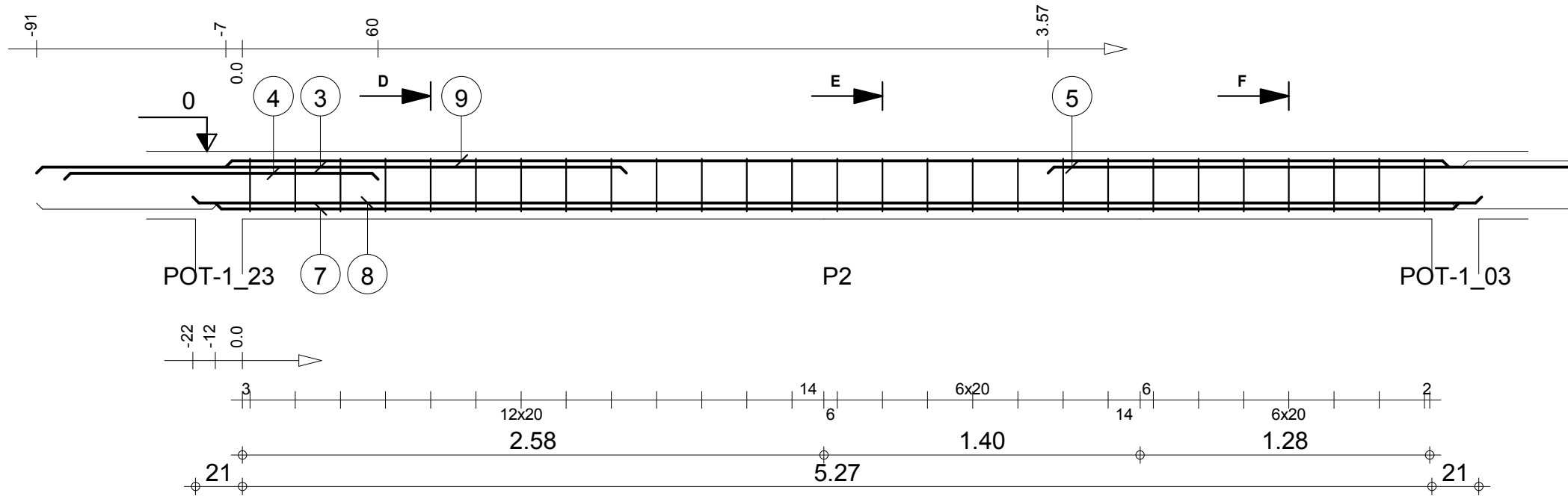
Acier HA 400 = 0.758 kg

Acier HA 400 = 0.991 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ③ | 2HA 12 | l=2.61 | 00 | 2.61 |
| ④ | 2HA 12 | l=1.39 | 00 | 1.39 |
| ⑤ | 2HA 12 | l=3.31 | 00 | 3.31 |
| ⑥ | 3*9HA 6 | l=88 | 31 | |
| ⑦ | 2HA 12 | l=5.51 | 00 | 5.51 |
| ⑧ | 2HA 12 | l=5.71 | 00 | 5.71 |
| ⑨ | 2HA 10 | l=5.42 | 00 | 5.42 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRB.115: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.329 m3

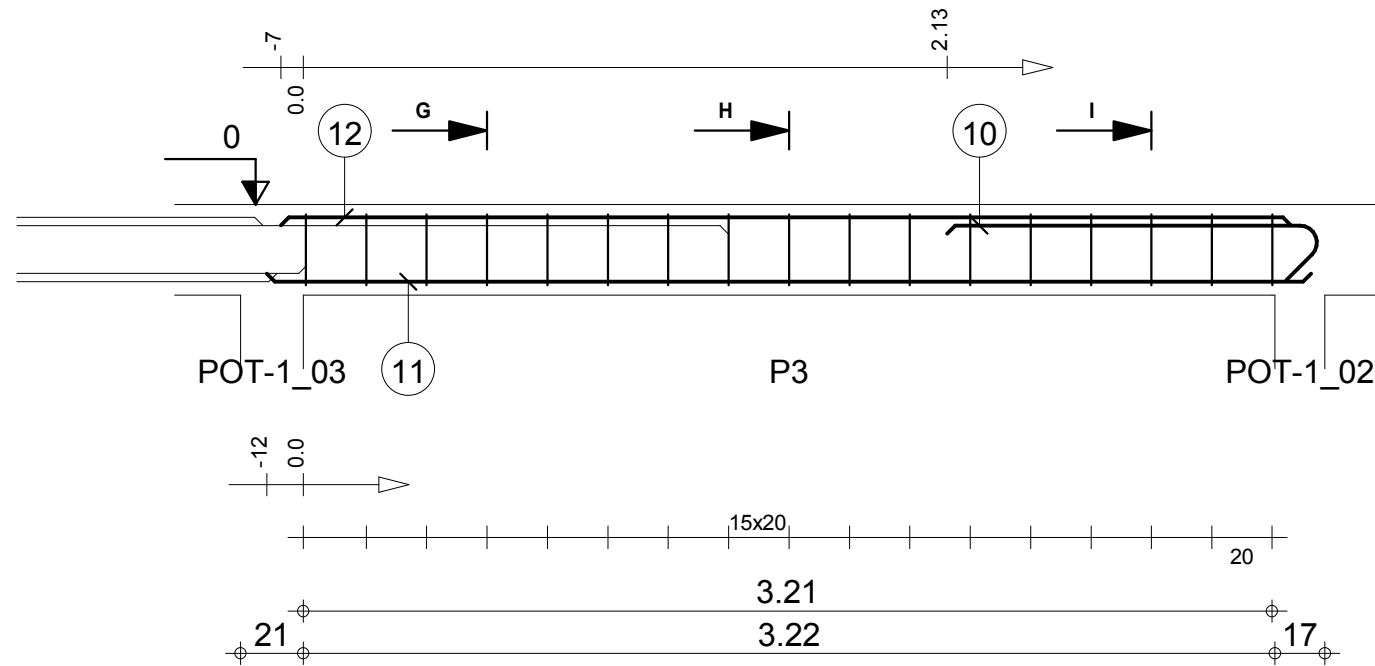
Acier HA 400 = 5.26 kg

Acier HA 400 = 39.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

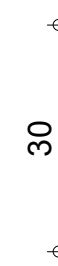
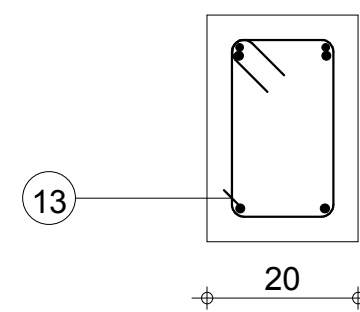
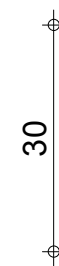
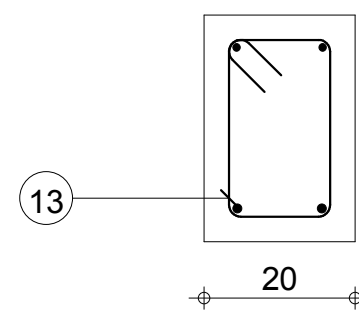
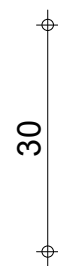
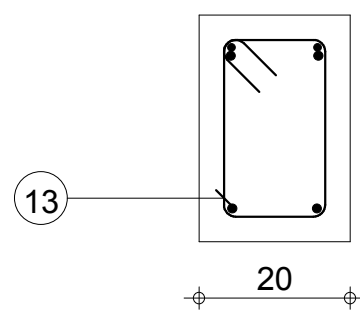
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---------|
| ⑩ | 2HA 12 | l=1.42 | 00 | 1.23 |
| ⑪ | 2HA 12 | l=3.46 | 00 | 3.46 |
| ⑫ | 2HA 10 | l=3.34 | 00 | 3.34 |
| ⑬ | 17HA 6 | l=88 | 31 | 14 8 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRB.115: P3

Section 20x30

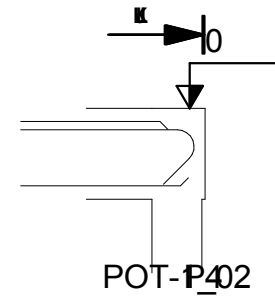
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.204 m3

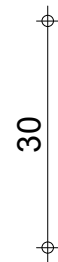
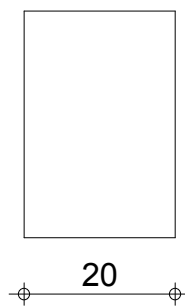
Acier HA 400 = 3.31 kg

Acier HA 400 = 12.8 kg

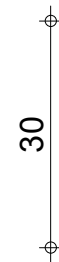
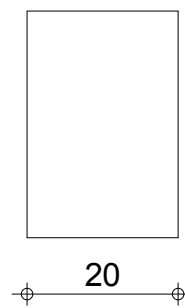


17

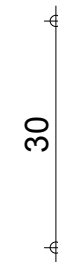
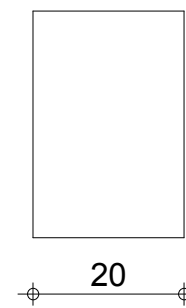
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRB.115: P4


Section 20x30

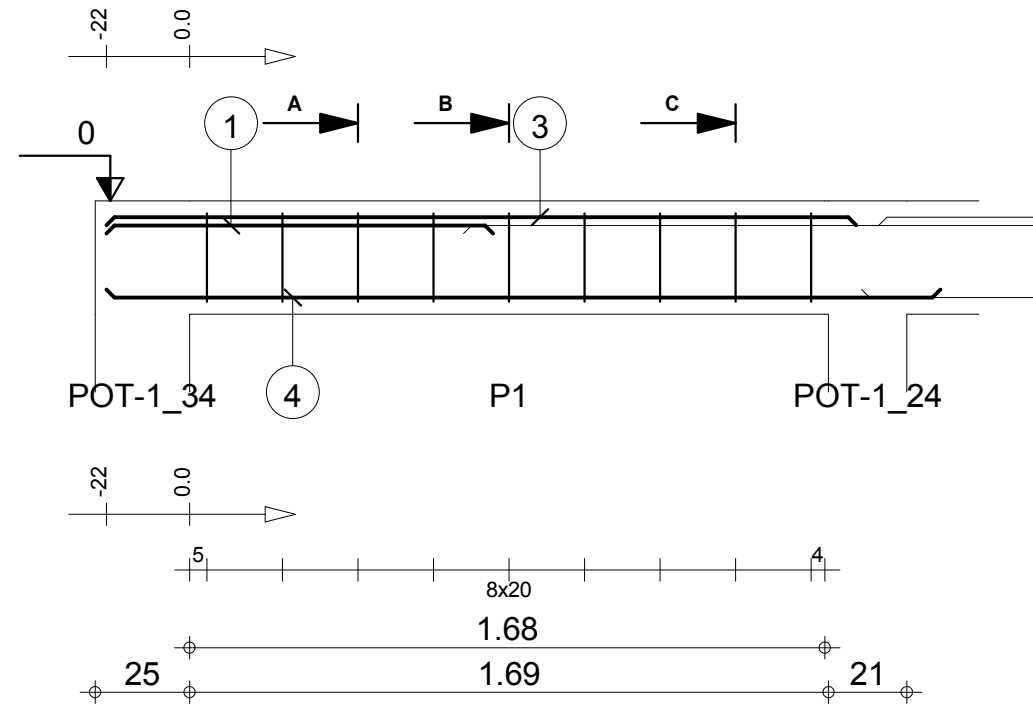
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

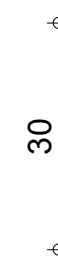
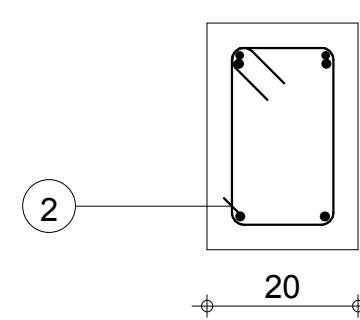
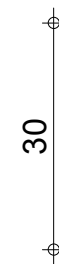
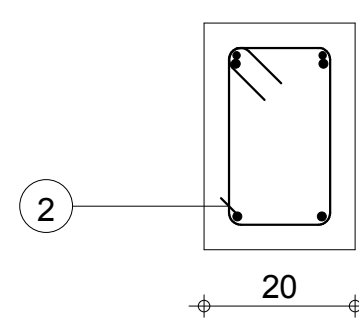
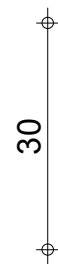
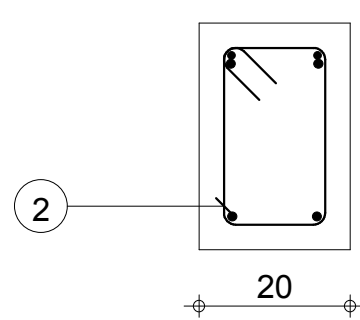
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.02 | 00 | 1.02 |
| ② | 9HA 6 | l=88 | 31 |  |
| ③ | 2HA 10 | l=1.99 | 00 | 1.99 |
| ④ | 2HA 12 | l=2.21 | 00 | 2.21 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRC.18: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.123 m3

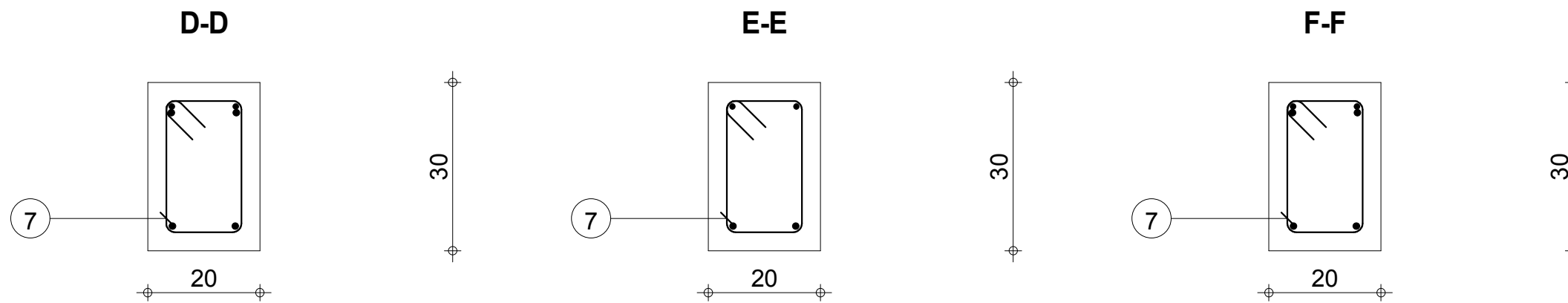
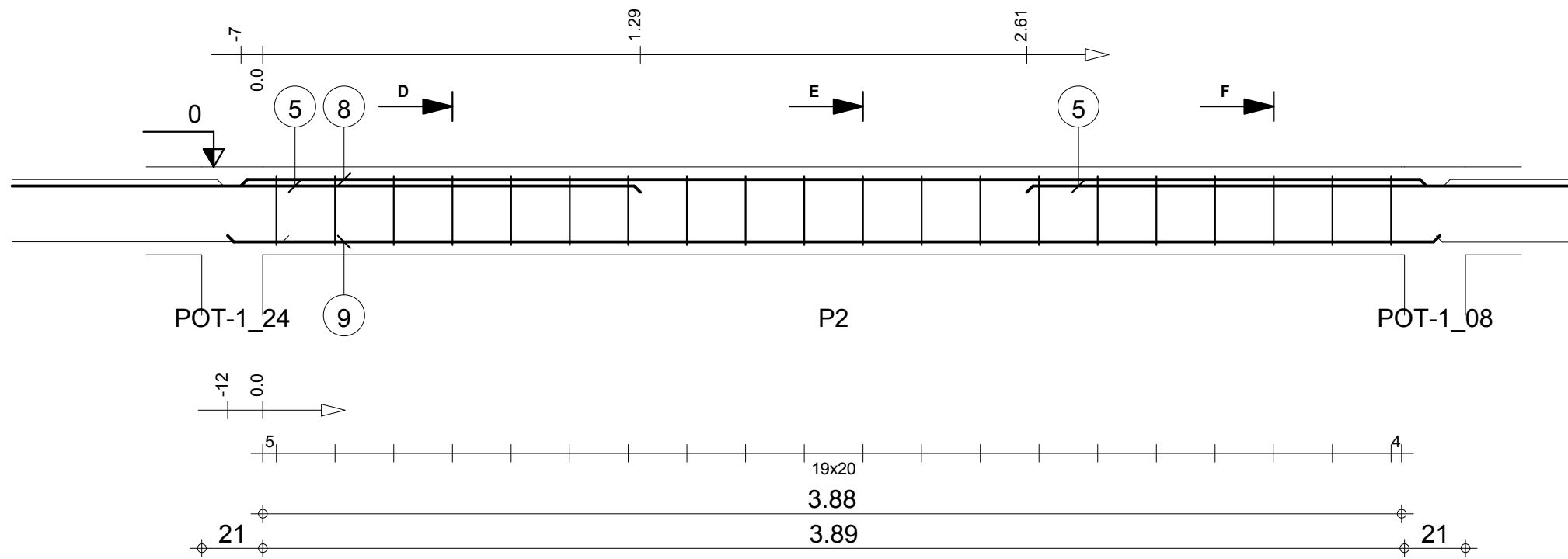
Acier HA 400 = 1.75 kg

Acier HA 400 = 8.19 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|-------|
| 5 | 2*2HA 12 | l=2.46* | 00 | 2.46 |
| 7 | 20HA 6 | l=88 | 31 | |
| 8 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 9 | 2HA 12 | l=4.13 | 00 | 4.13 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRC.18: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.246 m3

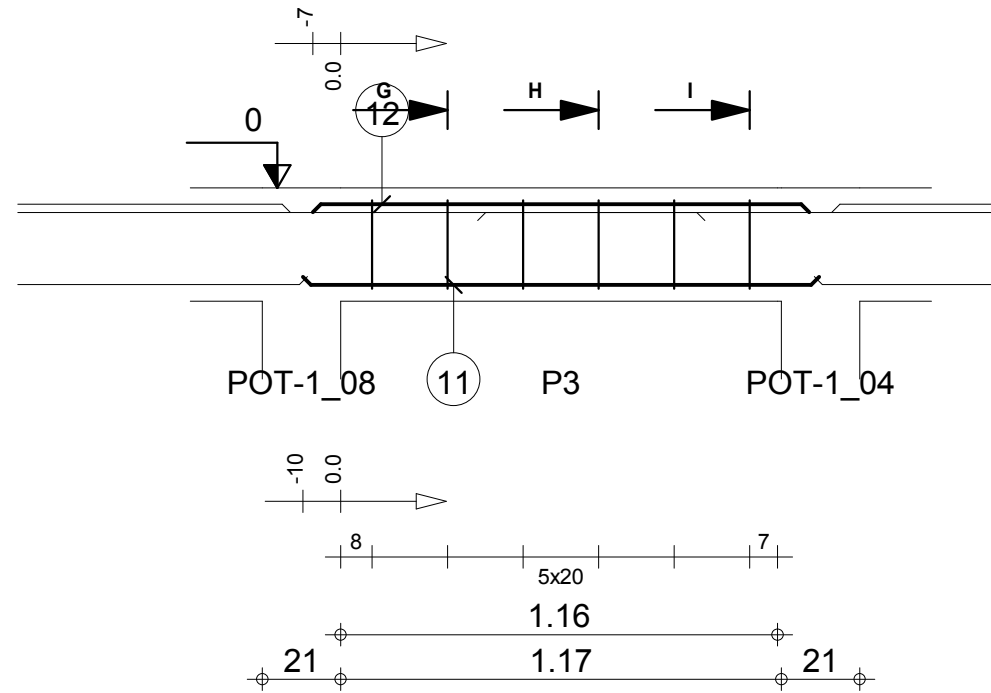
Acier HA 400 = 3.9 kg

Acier HA 400 = 21.1 kg

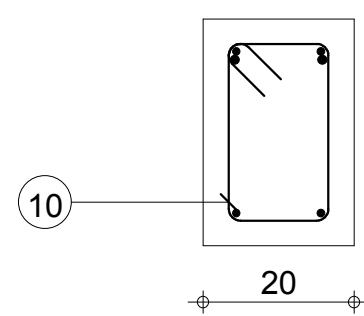
-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 10 | 6HA 6 | l=87 | 31 | |
| 11 | 2HA 10 | l=1.37 | 00 | |
| 12 | 2HA 10 | l=1.31 | 00 | |

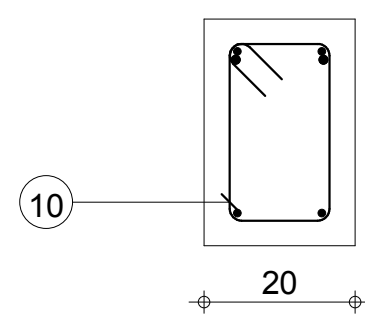


G-G



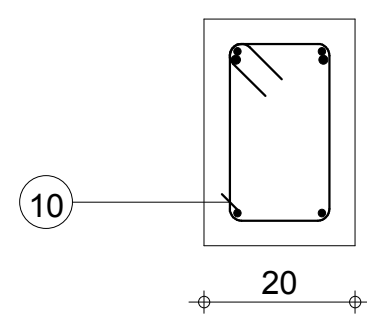
30

H-H



30

I-I



30

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRC.18: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.0825 m3

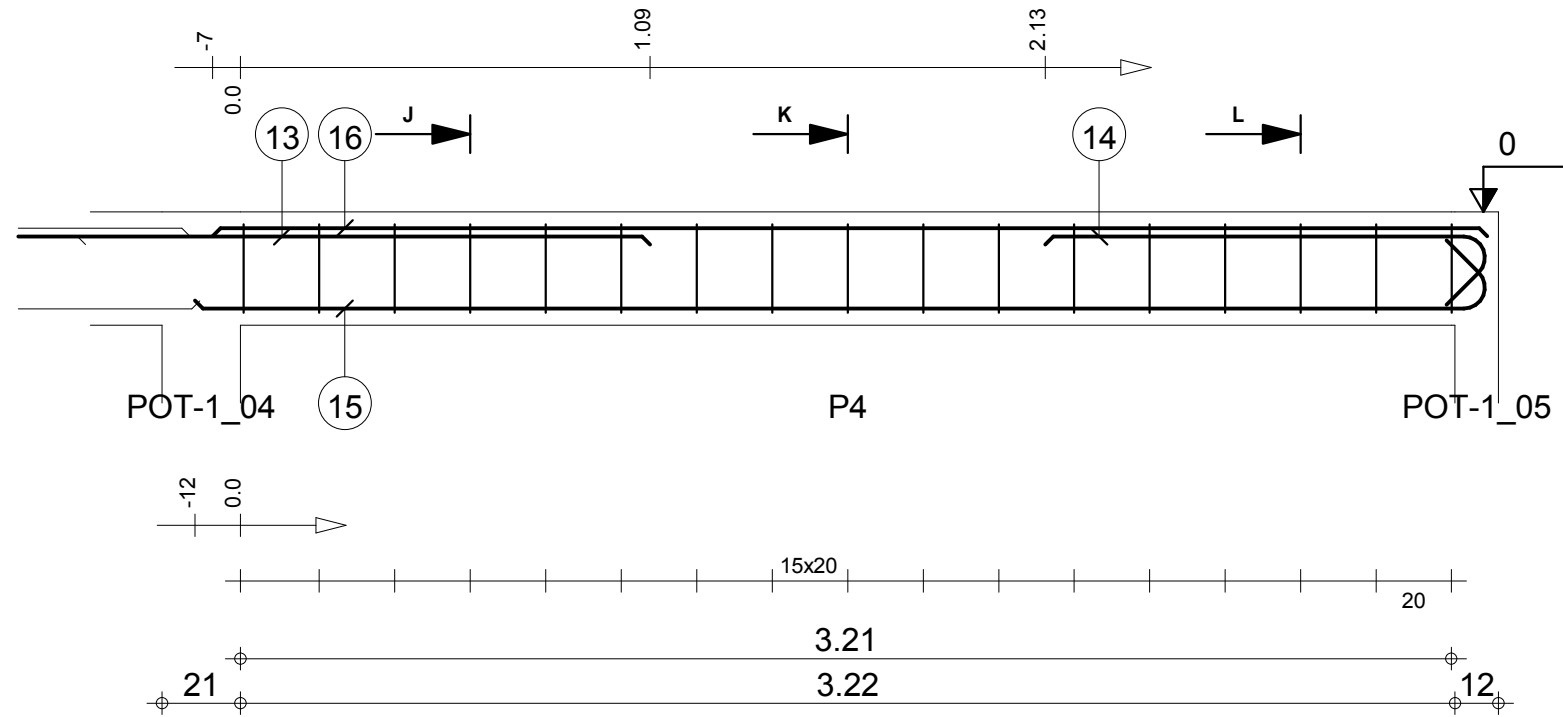
Acier HA 400 = 1.16 kg

Acier HA 400 = 3.31 kg

-1

MINHDU_BAMBOUTOS_POUTRES

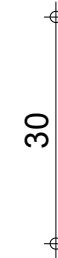
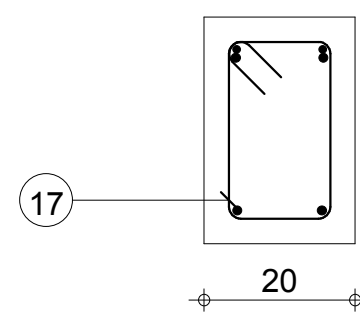
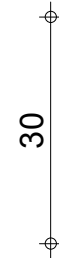
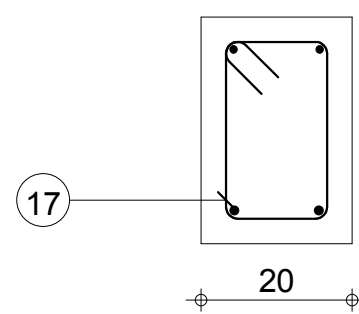
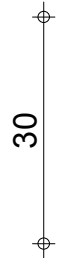
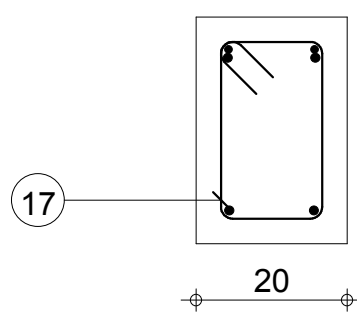
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=2.10 | 00 | 2.10 |
| 14 | 2HA 12 | l=1.36 | 00 | 1.17 |
| 15 | 2HA 12 | l=3.61 | 00 | 3.42 |
| 16 | 2HA 10 | l=3.38 | 00 | 3.38 |
| 17 | 17HA 6 | l=88 | 31 | |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRC.18: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.206 m3

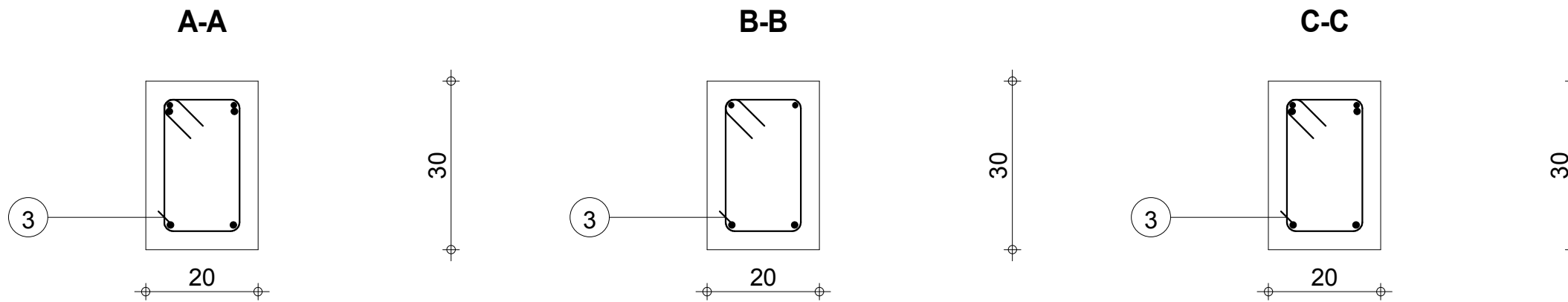
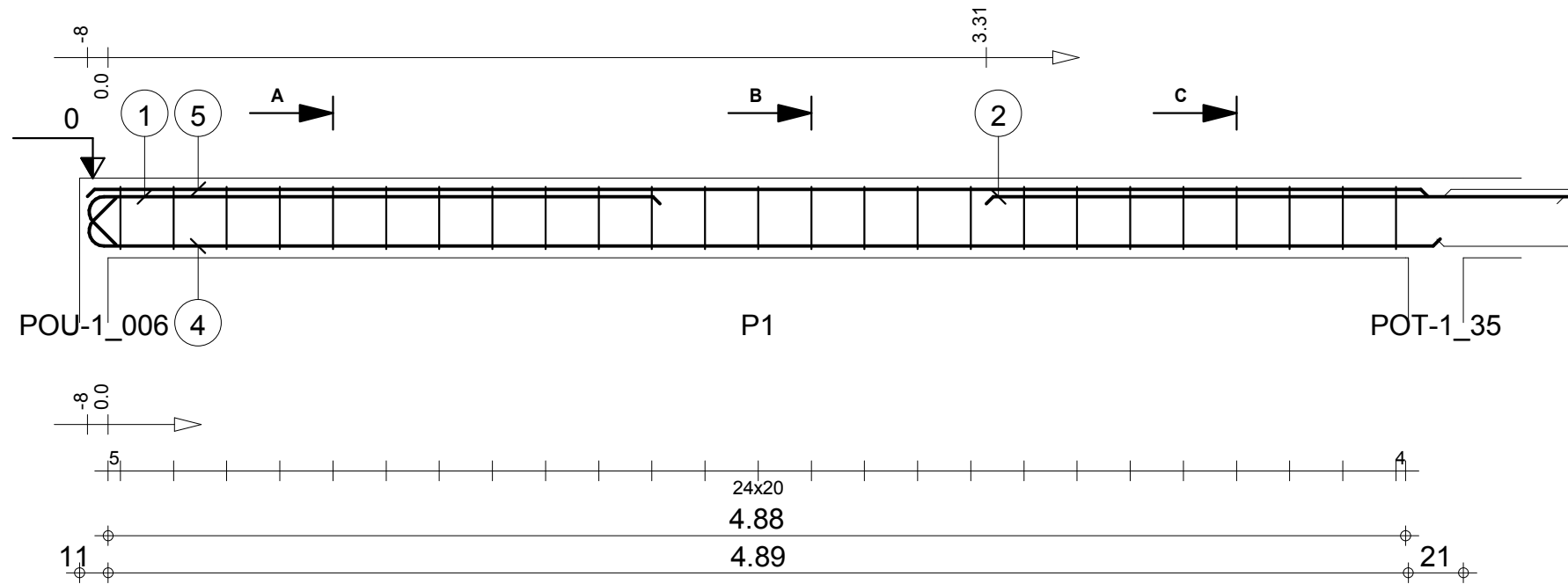
Acier HA 400 = 3.31 kg

Acier HA 400 = 16.7 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=2.34 | 00 | |
| ② | 2HA 12 | l=3.14 | 00 | |
| ③ | 25HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=5.28 | 00 | |
| ⑤ | 2HA 10 | l=5.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.306 m3

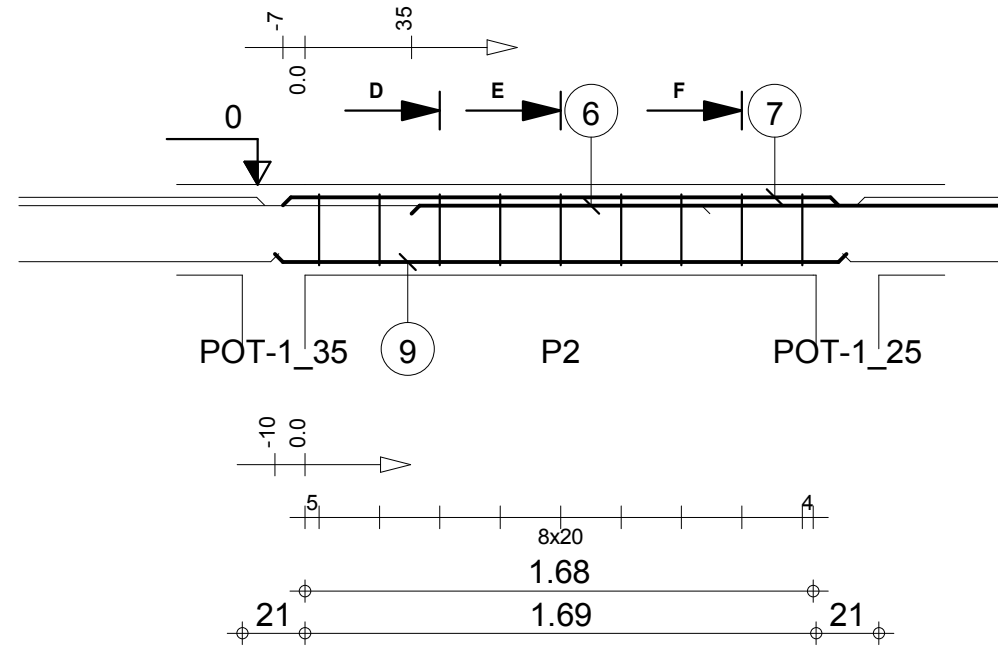
Acier HA 400 = 4.87 kg

Acier HA 400 = 25.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

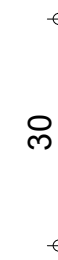
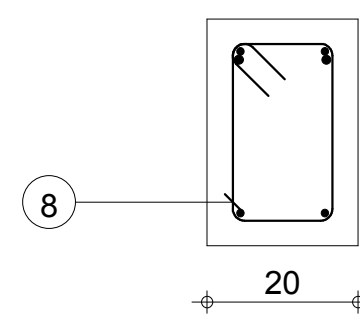
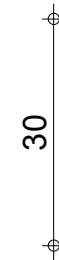
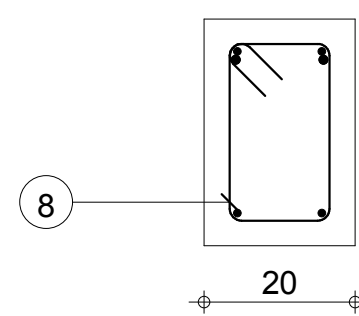
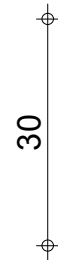
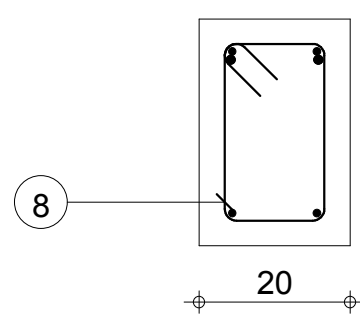
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 6 | 2HA 12 | l=2.84 | 00 | 2.84 |
| 7 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 8 | 9HA 6 | l=87 | 31 | |
| 9 | 2HA 10 | l=1.89 | 00 | 1.89 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.114 m3

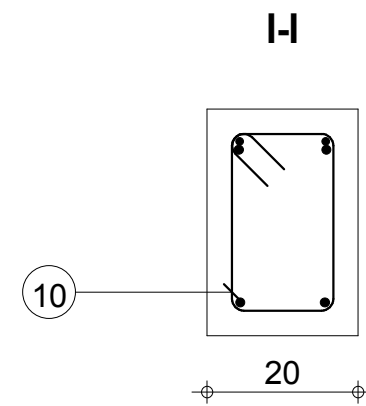
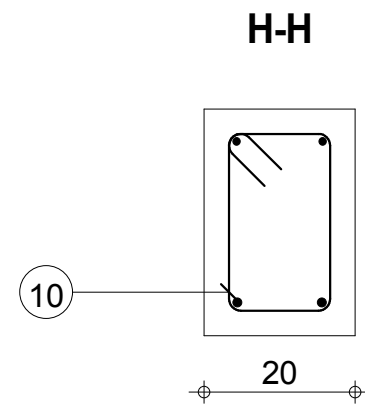
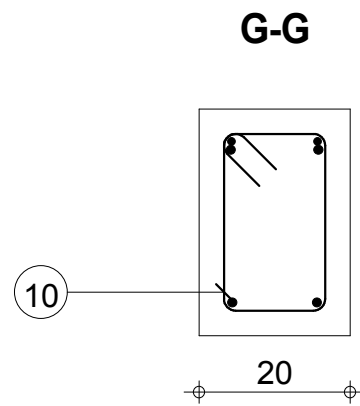
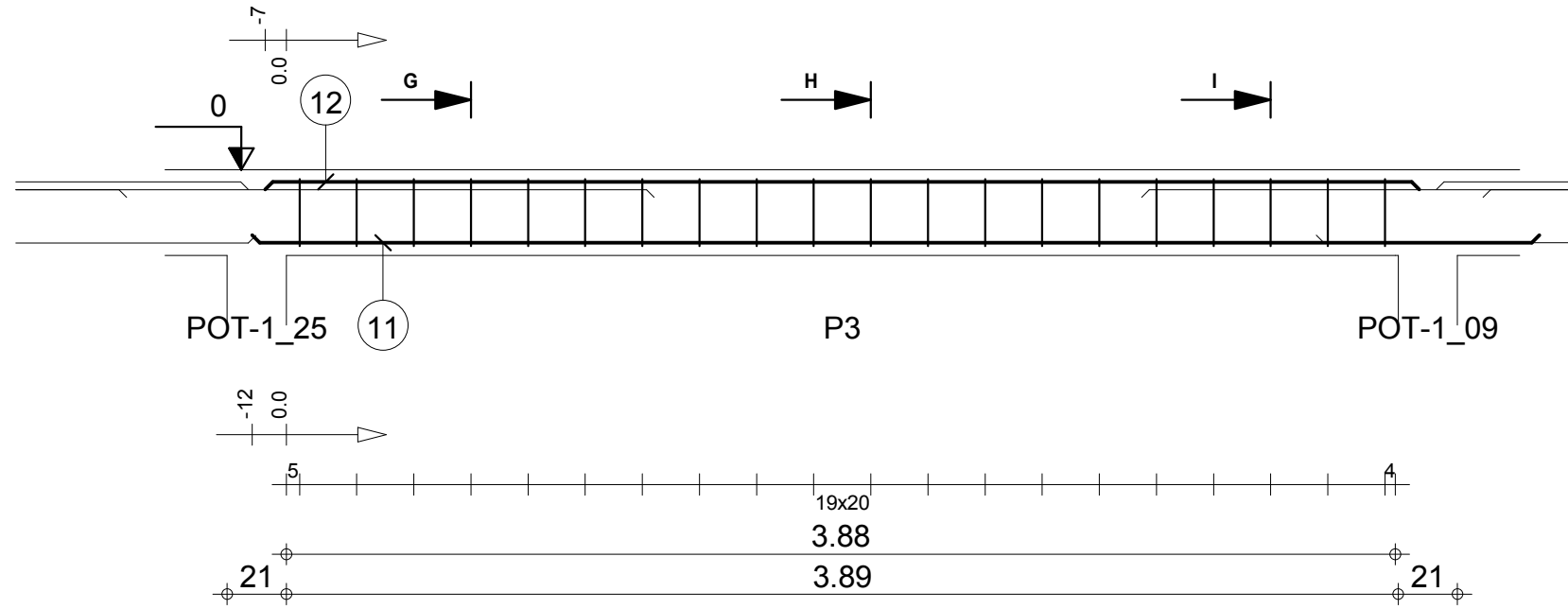
Acier HA 400 = 1.75 kg

Acier HA 400 = 9.64 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 10 | 20HA 6 | l=88 | 31 | |
| 11 | 2HA 12 | l=4.51 | 00 | |
| 12 | 2HA 10 | l=4.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.246 m3

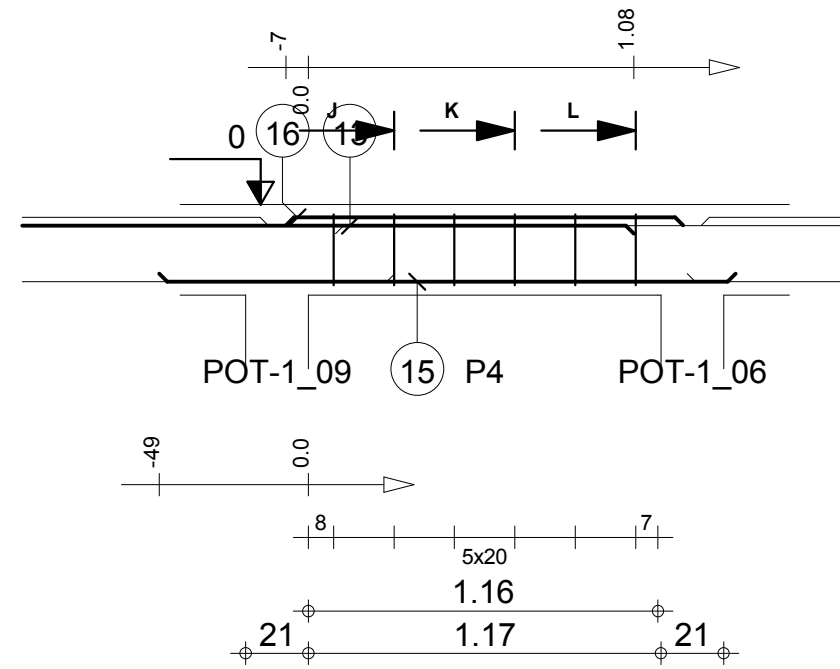
Acier HA 400 = 3.9 kg

Acier HA 400 = 13 kg

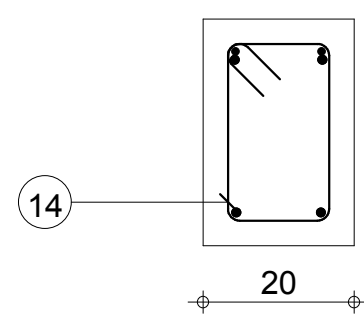
-1

MINHDU_BAMBOUTOS_POUTRES

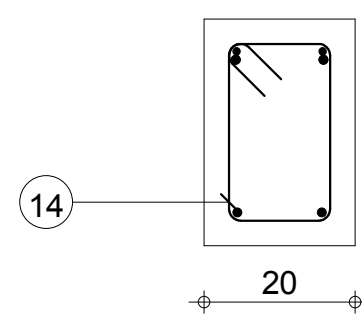
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 13 | 2HA 12 | l=2.18 | 00 | 2.18 |
| 14 | 6HA 6 | l=88 | 31 | |
| 15 | 2HA 12 | l=1.91 | 00 | 1.91 |
| 16 | 2HA 10 | l=1.31 | 00 | 1.32 |



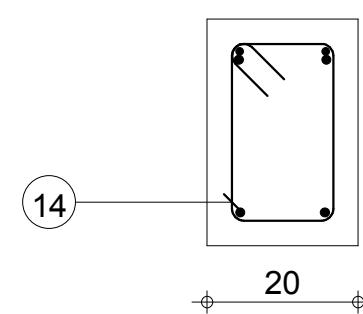
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.0825 m3

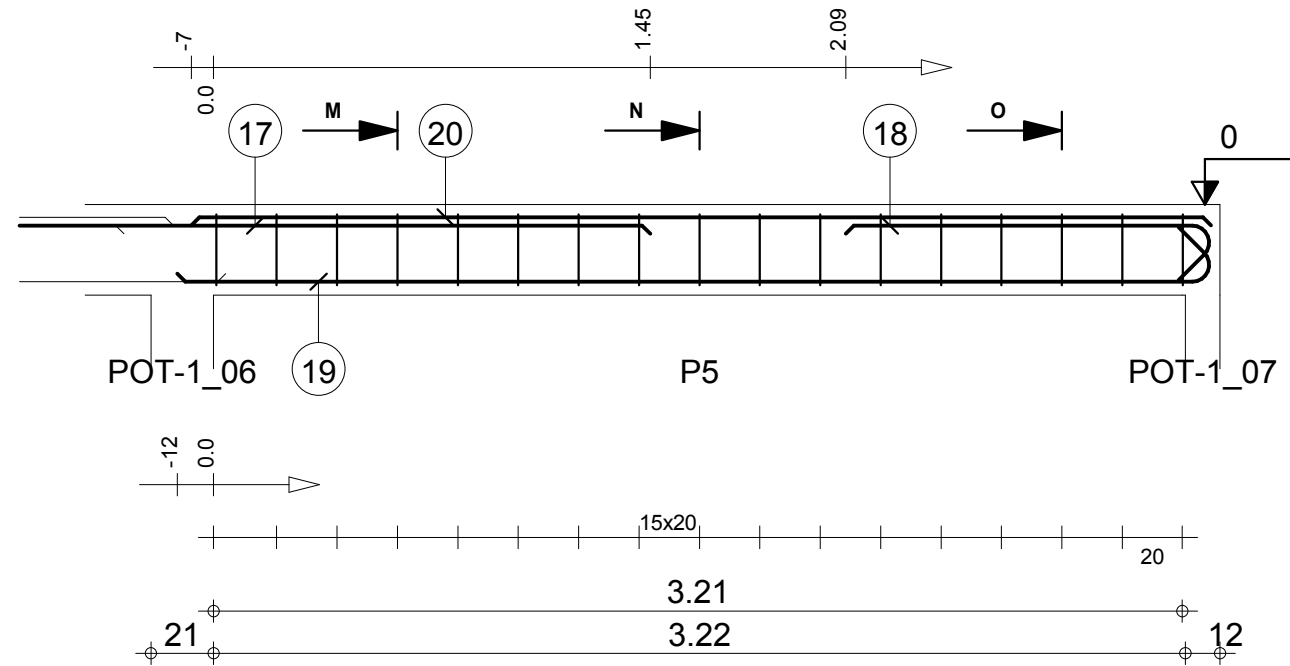
Acier HA 400 = 1.17 kg

Acier HA 400 = 8.89 kg

-1

MINHDU_BAMBOUTOS_POUTRES

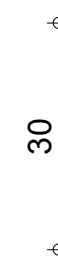
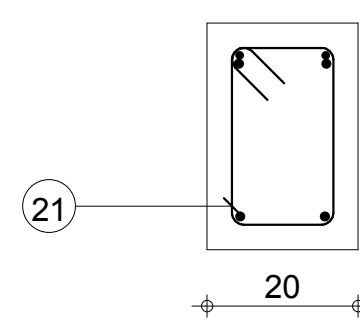
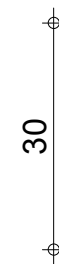
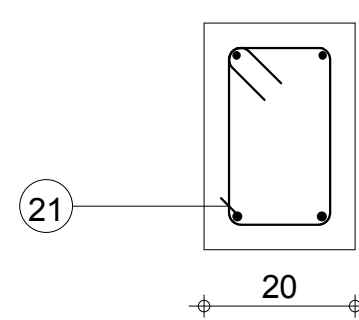
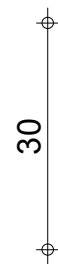
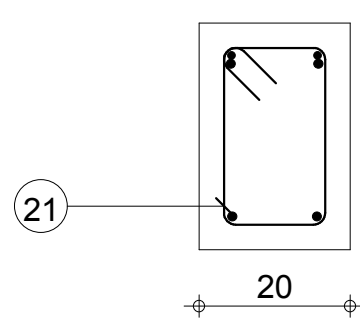
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------------|
| 17 | 2HA 12 | l=2.73 | 00 2.73 |
| 18 | 2HA 12 | l=1.40 | 00 1.21 |
| 19 | 2HA 12 | l=3.61 | 00 3.42 |
| 20 | 2HA 10 | l=3.38 | 00 3.38 |
| 21 | 17HA 6 | l=88 | 31 14 8 24 |



M-M

N-N

O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P5

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.206 m3

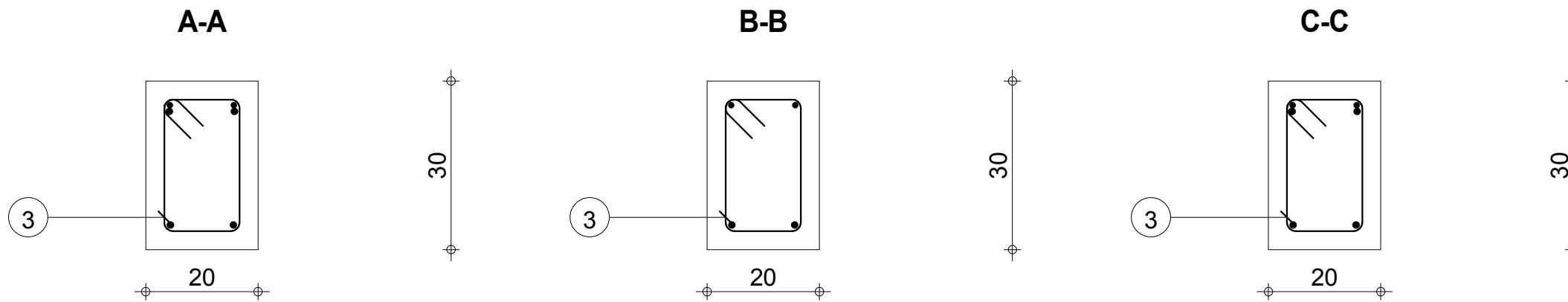
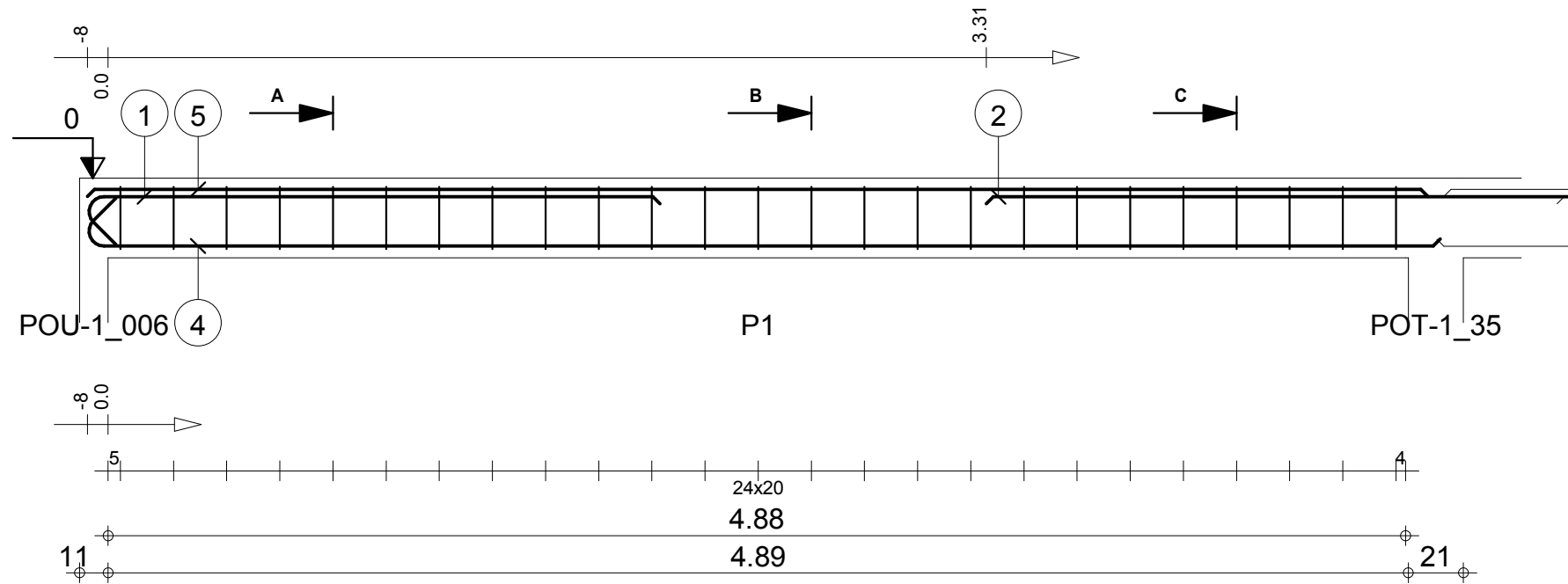
Acier HA 400 = 3.31 kg

Acier HA 400 = 17.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=2.34 | 00 |
| ② | 2HA 12 | l=3.14 | 00 |
| ③ | 25HA 6 | l=88 | 31 |
| ④ | 2HA 12 | l=5.28 | 00 |
| ⑤ | 2HA 10 | l=5.04 | 00 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5


Béton : BETON20 = 0.306 m3

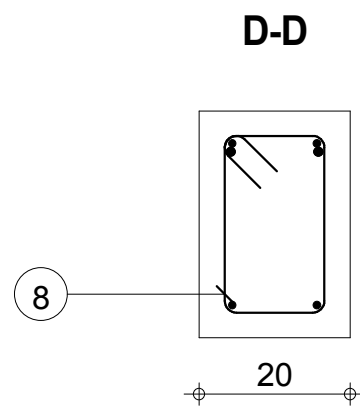
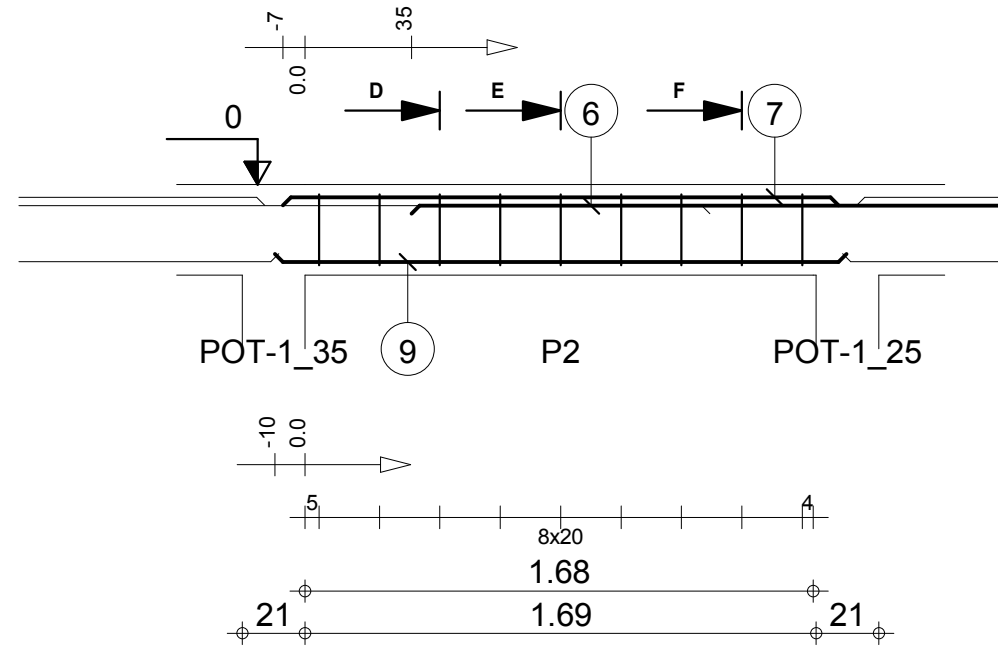
Acier HA 400 = 4.87 kg

Acier HA 400 = 25.3 kg

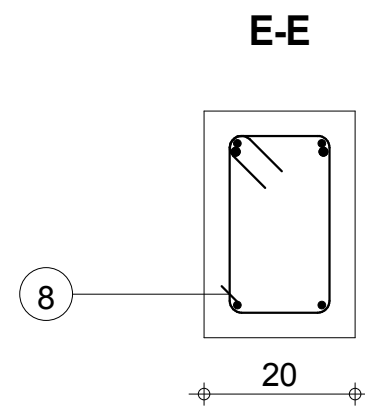
-1

MINHDU_BAMBOUTOS_POUTRES

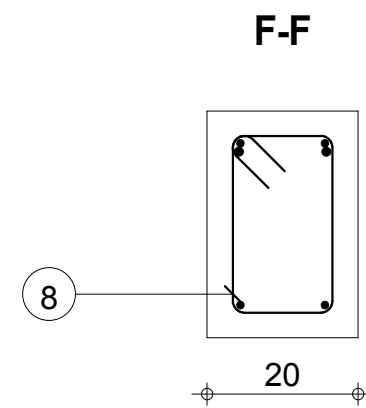
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 6 | 2HA 12 | l=2.84 | 00 | 2.84 |
| 7 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 8 | 9HA 6 | l=87 | 31 |  |
| 9 | 2HA 10 | l=1.89 | 00 | 1.89 |



30



30



30

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.114 m3

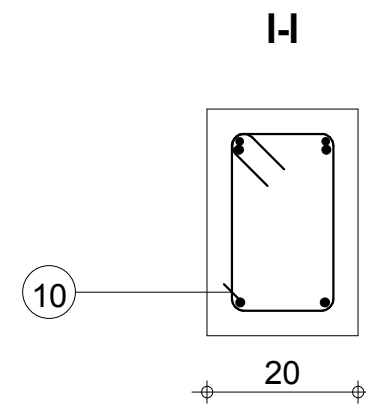
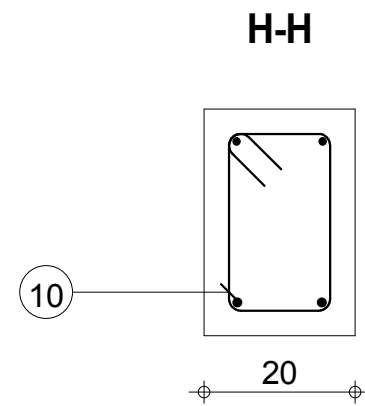
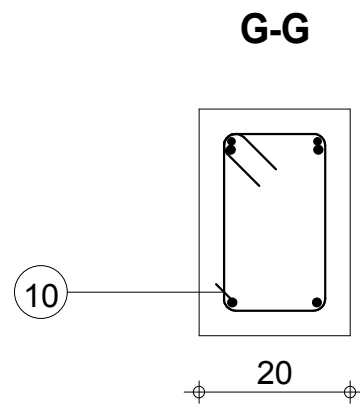
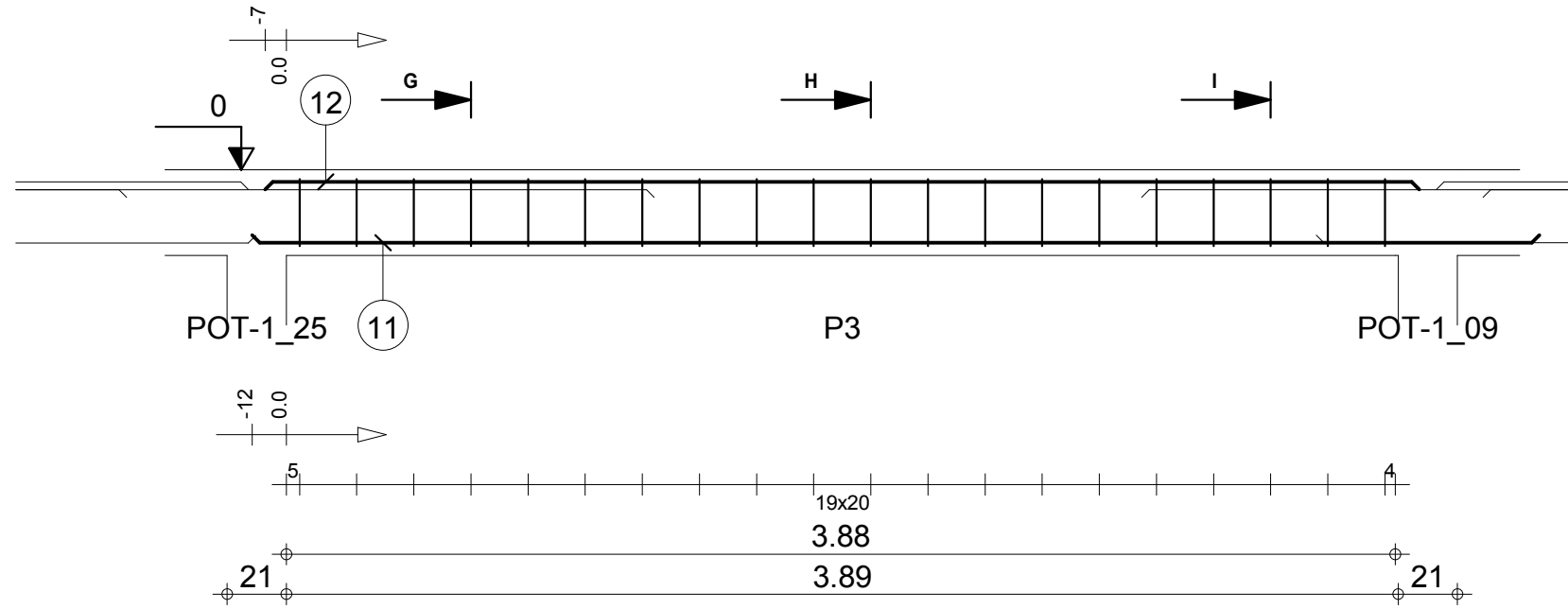
Acier HA 400 = 1.75 kg

Acier HA 400 = 9.64 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 10 | 20HA 6 | l=88 | 31 | |
| 11 | 2HA 12 | l=4.51 | 00 | |
| 12 | 2HA 10 | l=4.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5


Béton : BETON20 = 0.246 m3

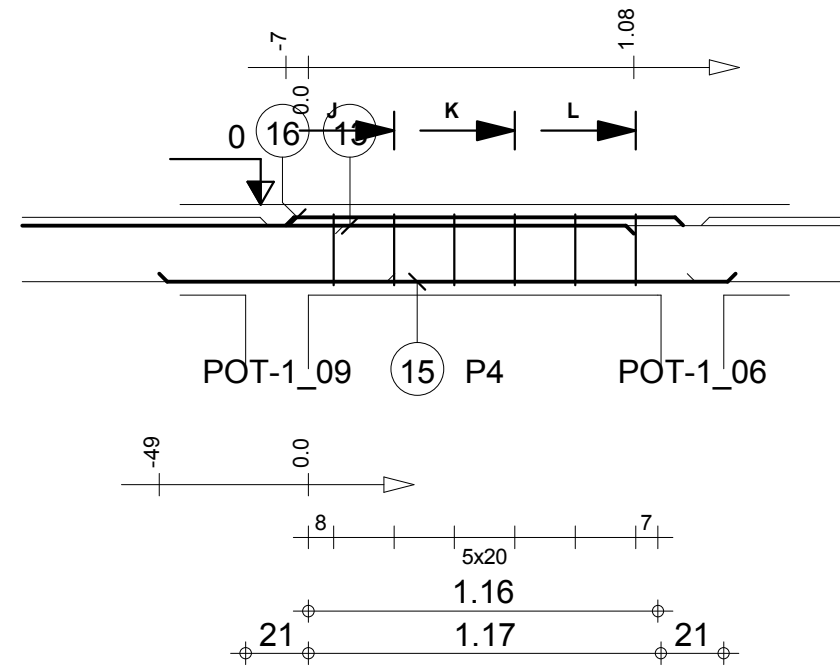
Acier HA 400 = 3.9 kg

Acier HA 400 = 13 kg

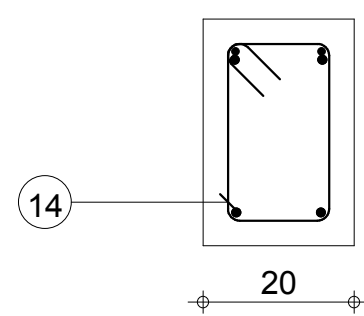
-1

MINHDU_BAMBOUTOS_POUTRES

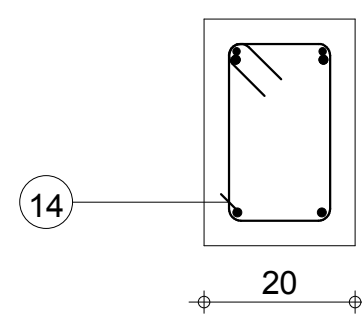
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 13 | 2HA 12 | l=2.18 | 00 2.18 |
| 14 | 6HA 6 | l=88 | 31  |
| 15 | 2HA 12 | l=1.91 | 00 1.91 |
| 16 | 2HA 10 | l=1.31 | 00 1.31 |



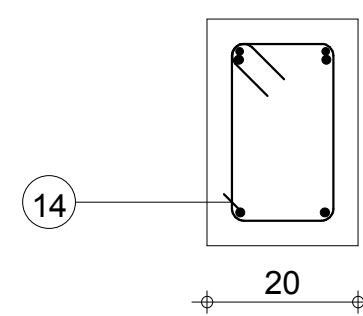
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.0825 m3

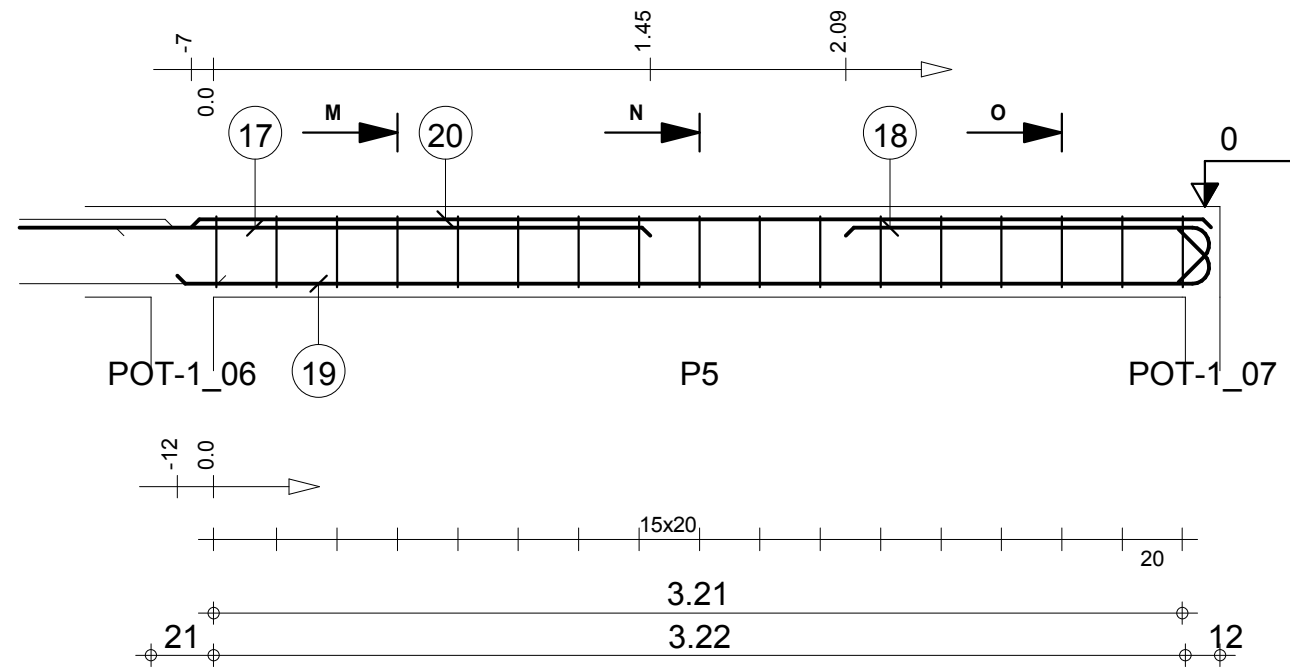
Acier HA 400 = 1.17 kg

Acier HA 400 = 8.89 kg

-1

MINHDU_BAMBOUTOS_POUTRES

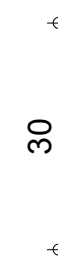
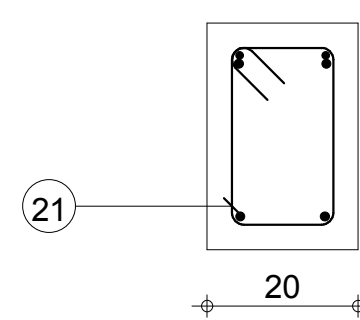
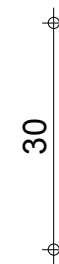
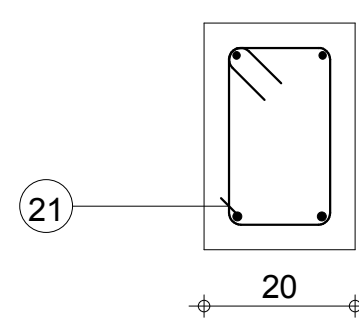
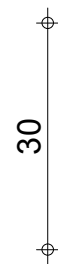
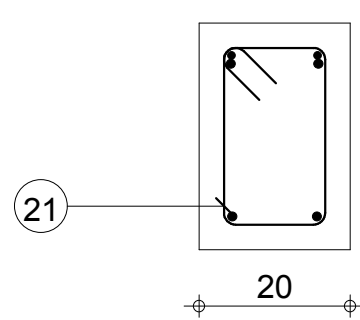
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------------|
| 17 | 2HA 12 | l=2.73 | 00 2.73 |
| 18 | 2HA 12 | l=1.40 | 00 1.21 |
| 19 | 2HA 12 | l=3.61 | 00 3.42 |
| 20 | 2HA 10 | l=3.38 | 00 3.38 |
| 21 | 17HA 6 | l=88 | 31 14 8 24 |



M-M

N-N

O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRD.19: P5

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.206 m3

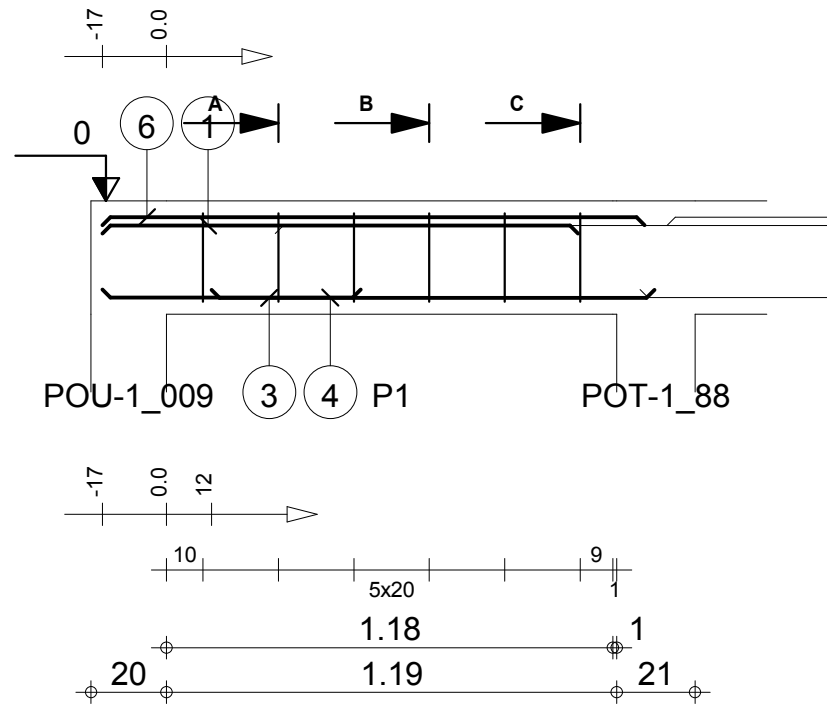
Acier HA 400 = 3.31 kg

Acier HA 400 = 17.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

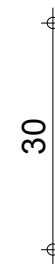
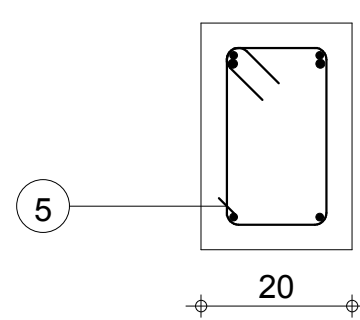
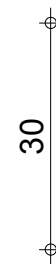
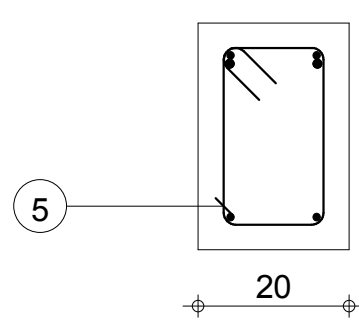
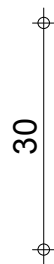
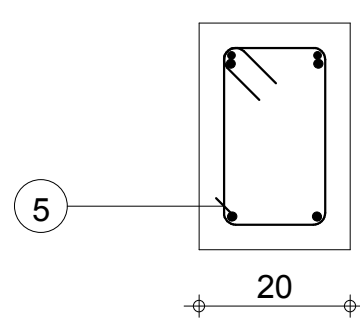
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.26 | 00 | 1.26 |
| ③ | 2HA 10 | l=1.17 | 00 | 1.17 |
| ④ | 2HA 12 | l=68 | 00 | 68 |
| ⑤ | 6HA 6 | l=88* | 31 | |
| ⑥ | 2HA 10 | l=1.44 | 00 | 1.44 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRE.14: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.0898 m3

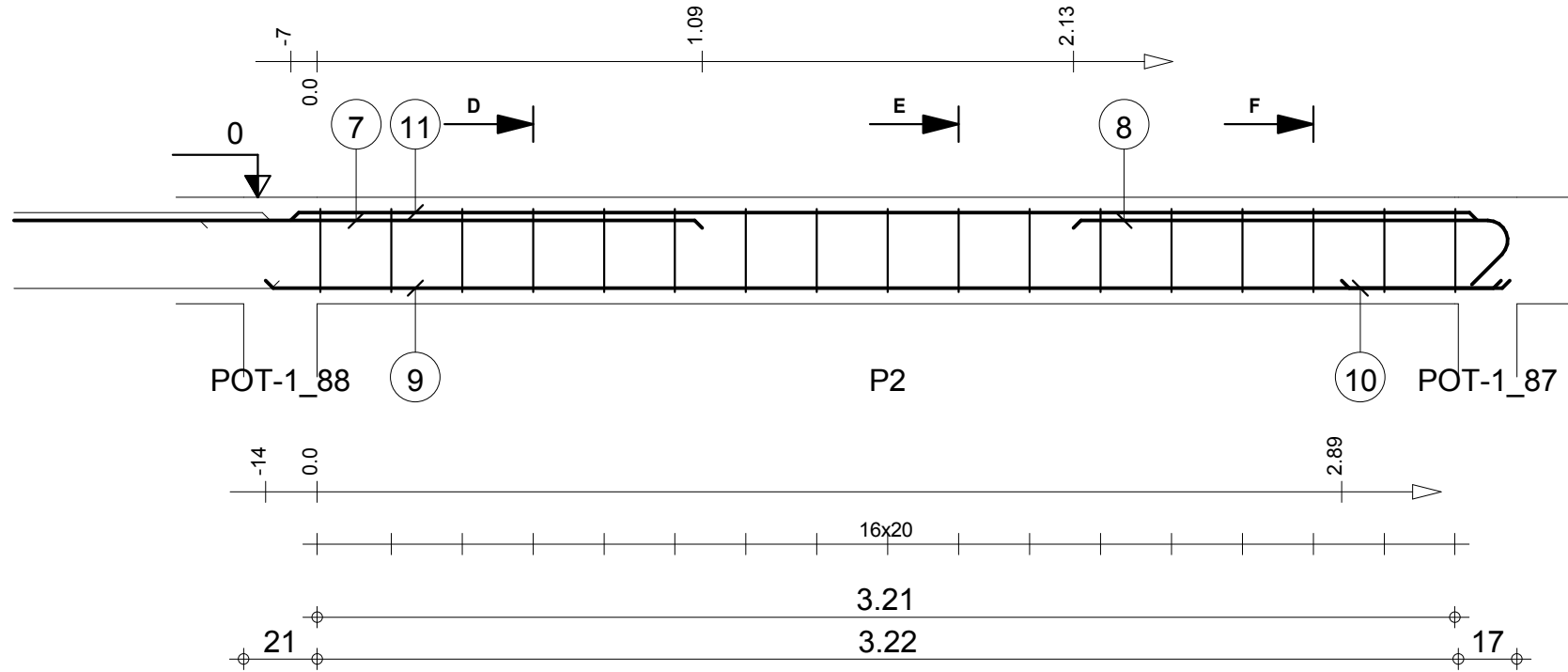
Acier HA 400 = 1.17 kg

Acier HA 400 = 6.67 kg

-1

MINHDU_BAMBOUTOS_POUTRES

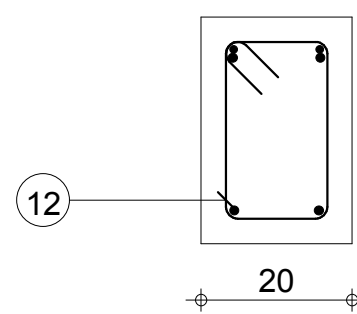
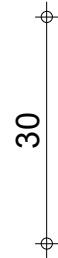
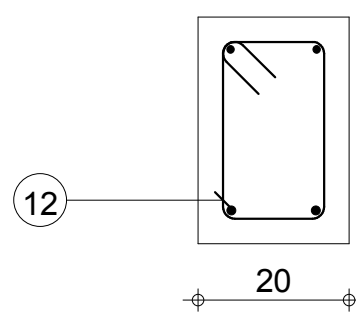
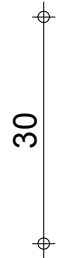
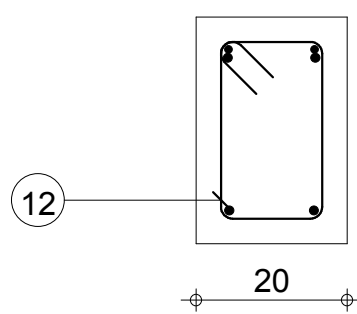
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 7 | 2HA 12 | l=2.20 | 00 |
| 8 | 2HA 12 | l=1.42 | 00 |
| 9 | 2HA 12 | l=3.48 | 00 |
| 10 | 2HA 12 | l=47 | 00 |
| 11 | 2HA 10 | l=3.34 | 00 |
| 12 | 17HA 6 | l=88 | 31 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRE.14: P2

Section 20x30

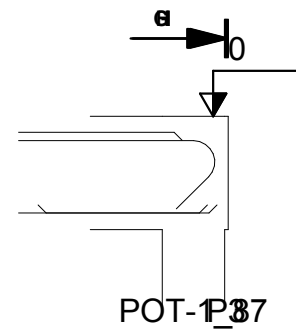
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.204 m3

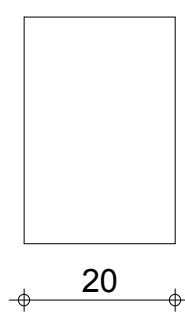
Acier HA 400 = 3.31 kg

Acier HA 400 = 17.6 kg



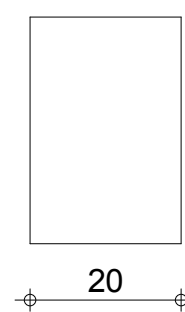
17

G-G



30

H-H



30

I-I



30

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRE.14: P3

Section 20x30

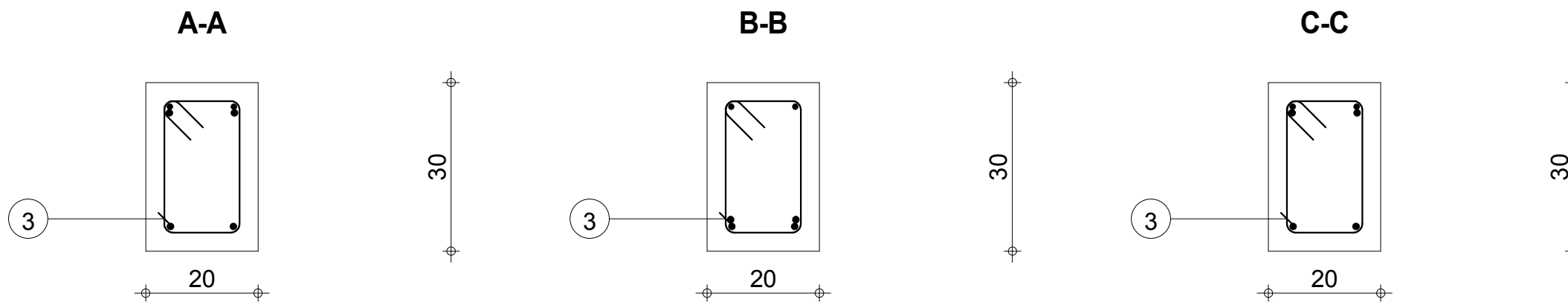
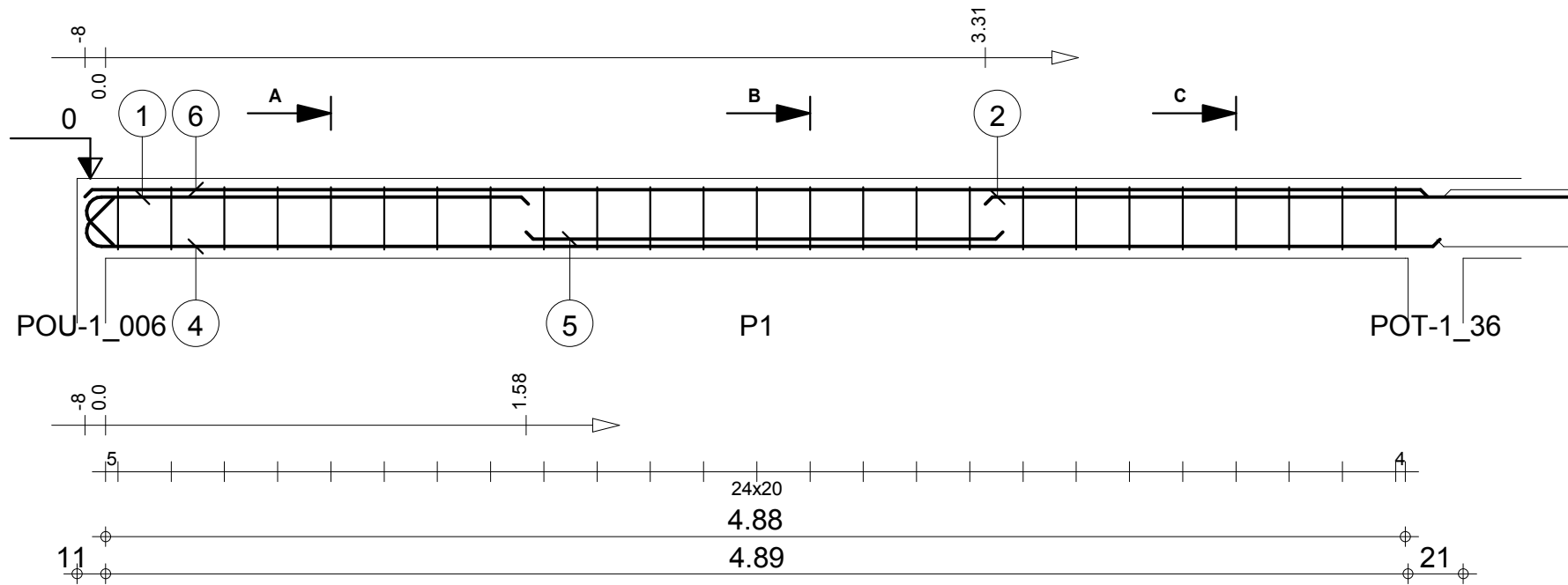
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.86 | 00 | |
| ② | 2HA 12 | l=2.84 | 00 | |
| ③ | 25HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=5.28 | 00 | |
| ⑤ | 2HA 12 | l=1.79 | 00 | |
| ⑥ | 2HA 10 | l=5.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.306 m3

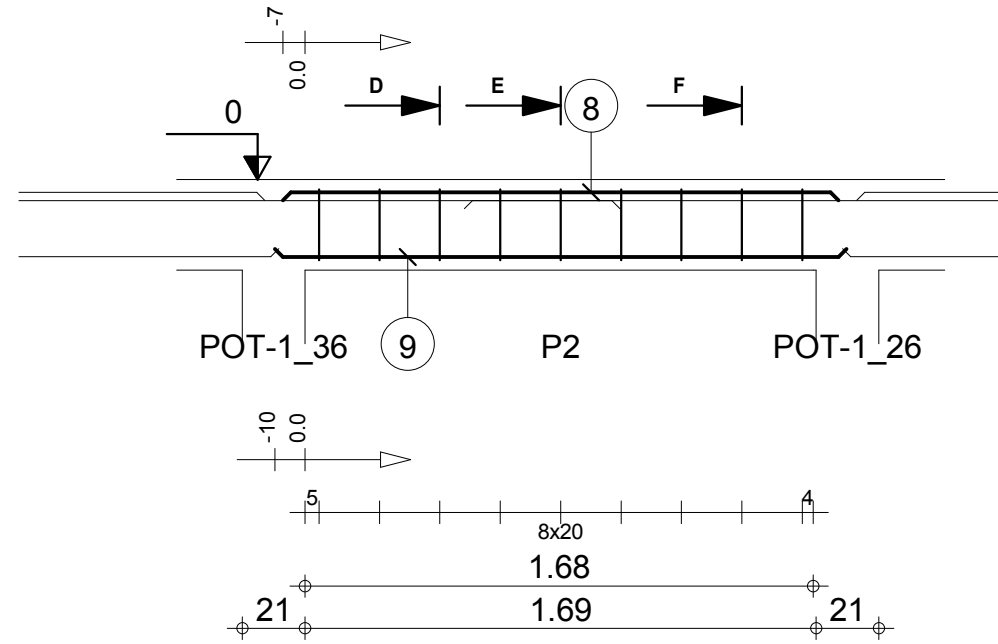
Acier HA 400 = 4.87 kg

Acier HA 400 = 27.1 kg

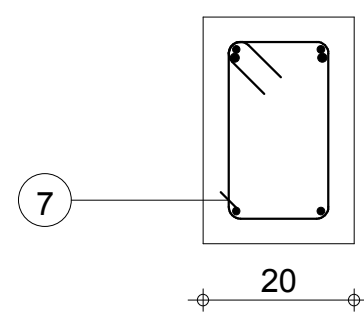
-1

MINHDU_BAMBOUTOS_POUTRES

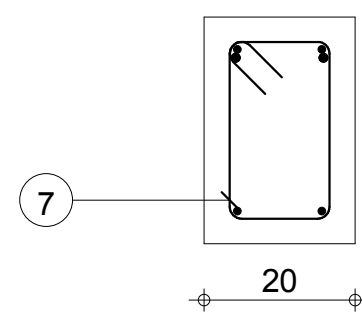
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 9HA 6 | l=87 | 31 | |
| 8 | 2HA 10 | l=1.84 | 00 | |
| 9 | 2HA 10 | l=1.89 | 00 | |



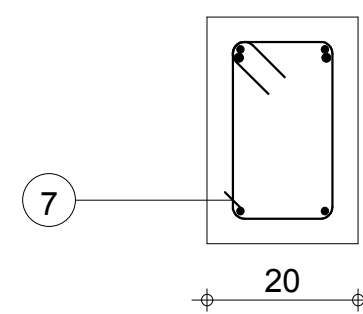
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.114 m3

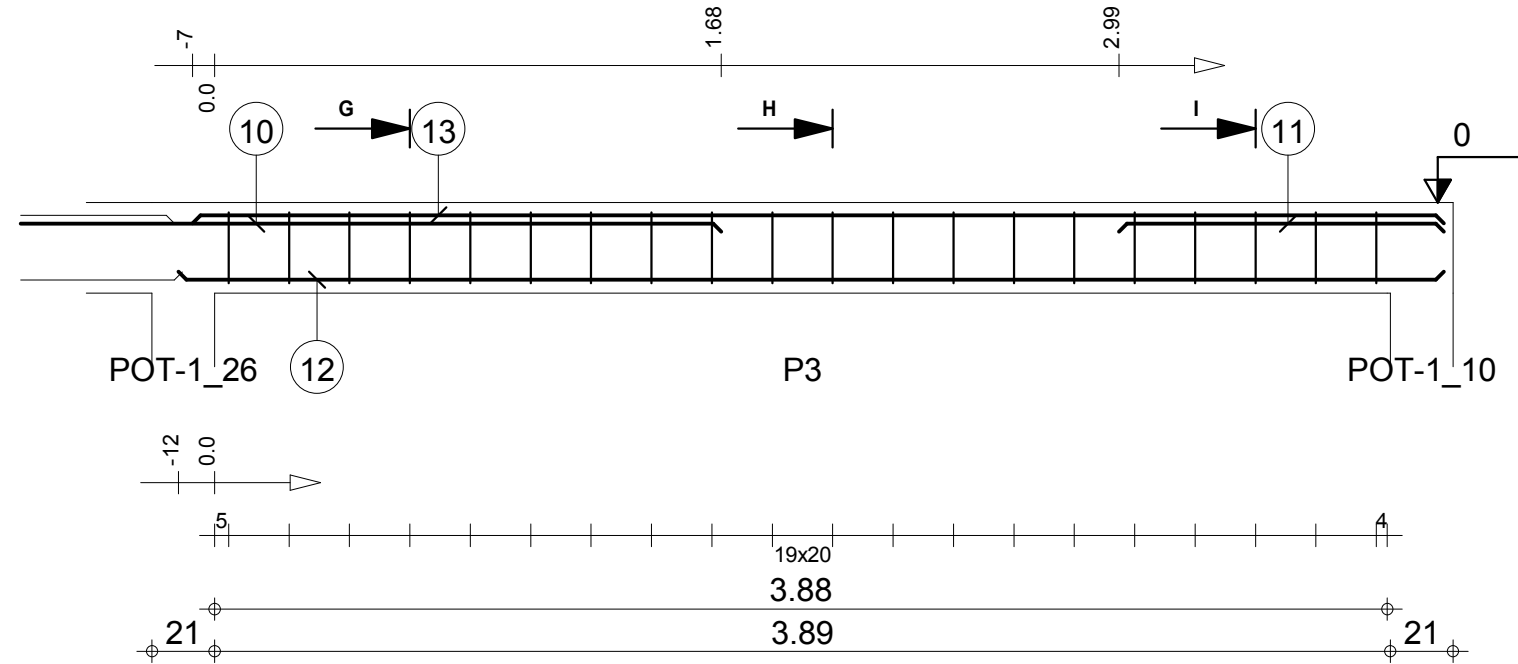
Acier HA 400 = 1.75 kg

Acier HA 400 = 4.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

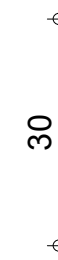
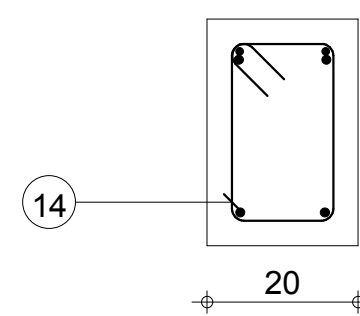
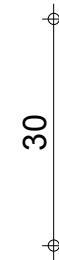
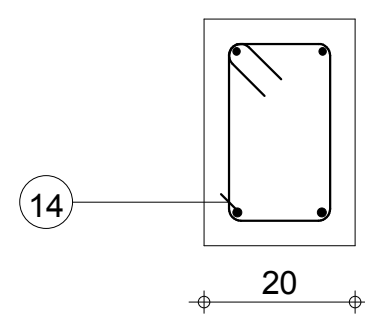
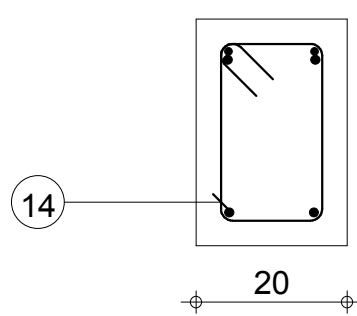
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------------|
| ⑩ | 2HA 12 | l=3.05 | 00 3.05 |
| ⑪ | 2HA 12 | l=1.08 | 00 1.08 |
| ⑫ | 2HA 12 | l=4.19 | 00 4.19 |
| ⑬ | 2HA 10 | l=4.14 | 00 4.14 |
| ⑭ | 20HA 6 | l=88 | 31 14 24 8 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.252 m3

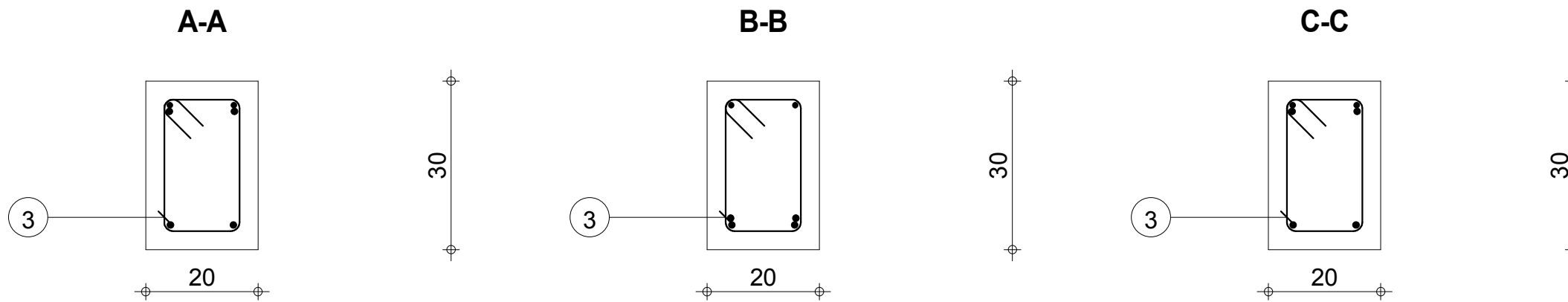
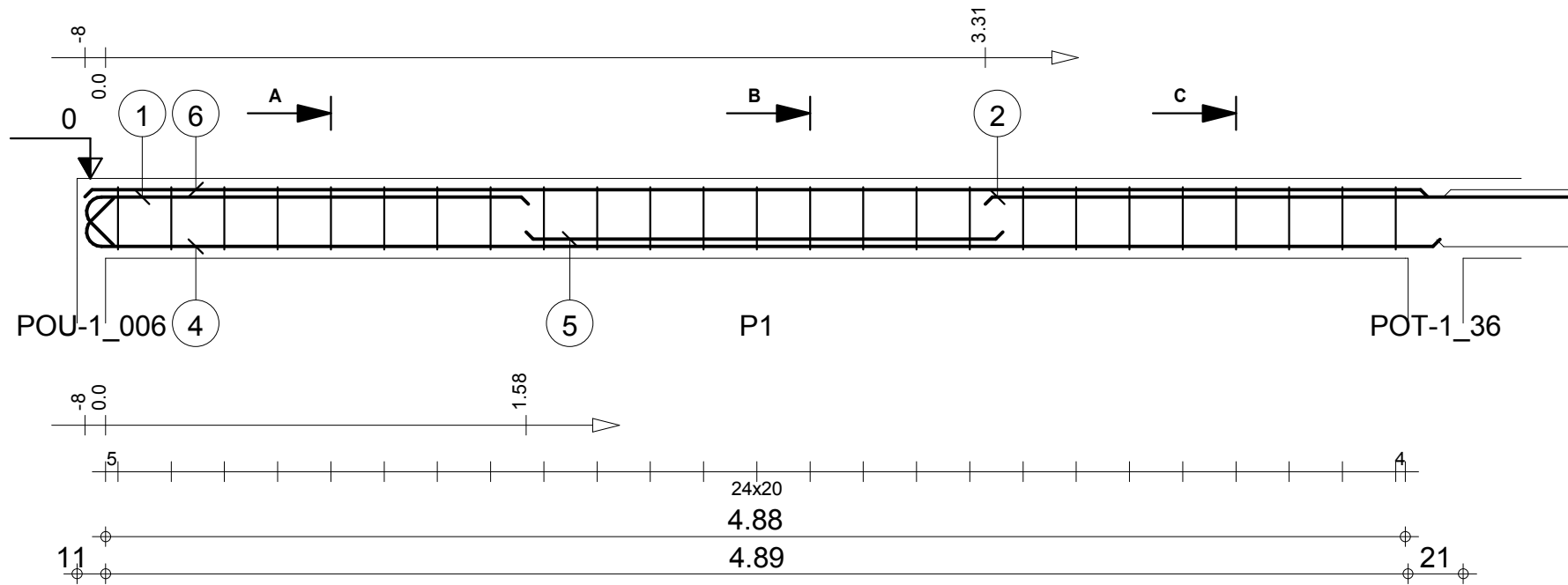
Acier HA 400 = 3.9 kg

Acier HA 400 = 19.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.86 | 00 | |
| ② | 2HA 12 | l=2.84 | 00 | |
| ③ | 25HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=5.28 | 00 | |
| ⑤ | 2HA 12 | l=1.79 | 00 | |
| ⑥ | 2HA 10 | l=5.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.306 m3

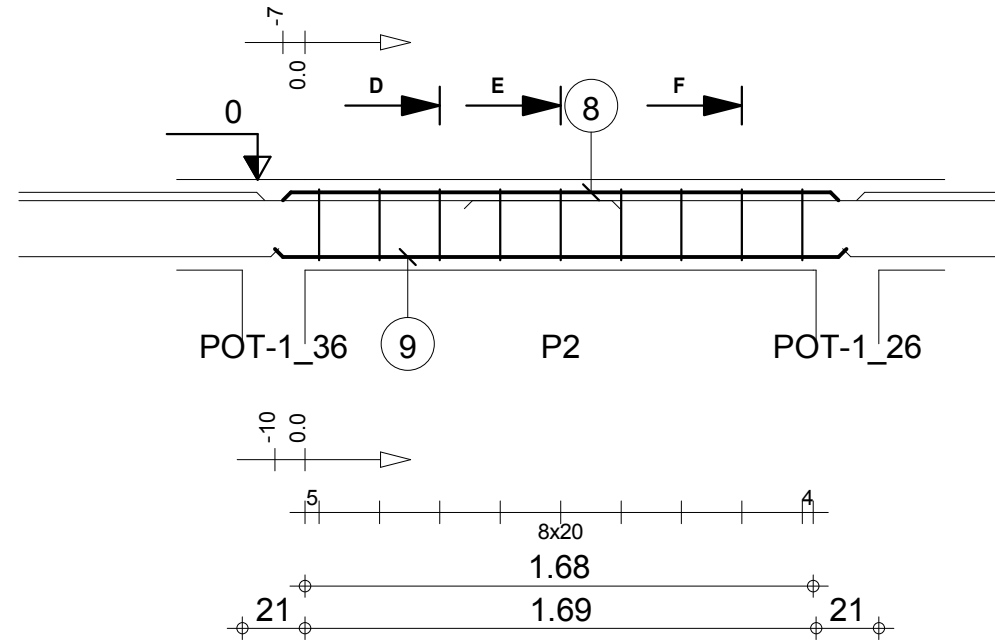
Acier HA 400 = 4.87 kg

Acier HA 400 = 27.1 kg

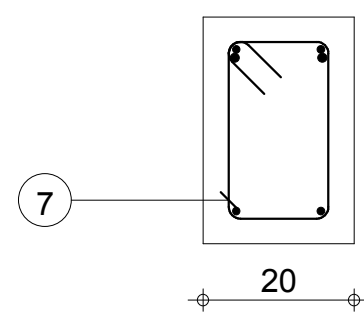
-1

MINHDU_BAMBOUTOS_POUTRES

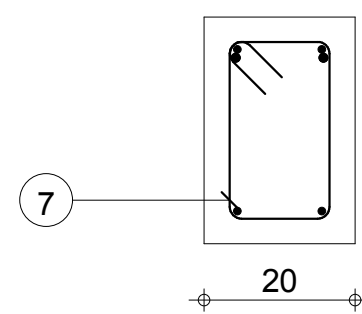
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 9HA 6 | l=87 | 31 | |
| 8 | 2HA 10 | l=1.84 | 00 | |
| 9 | 2HA 10 | l=1.89 | 00 | |



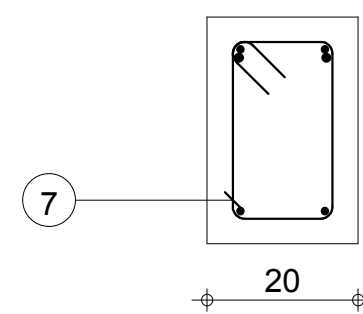
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.114 m3

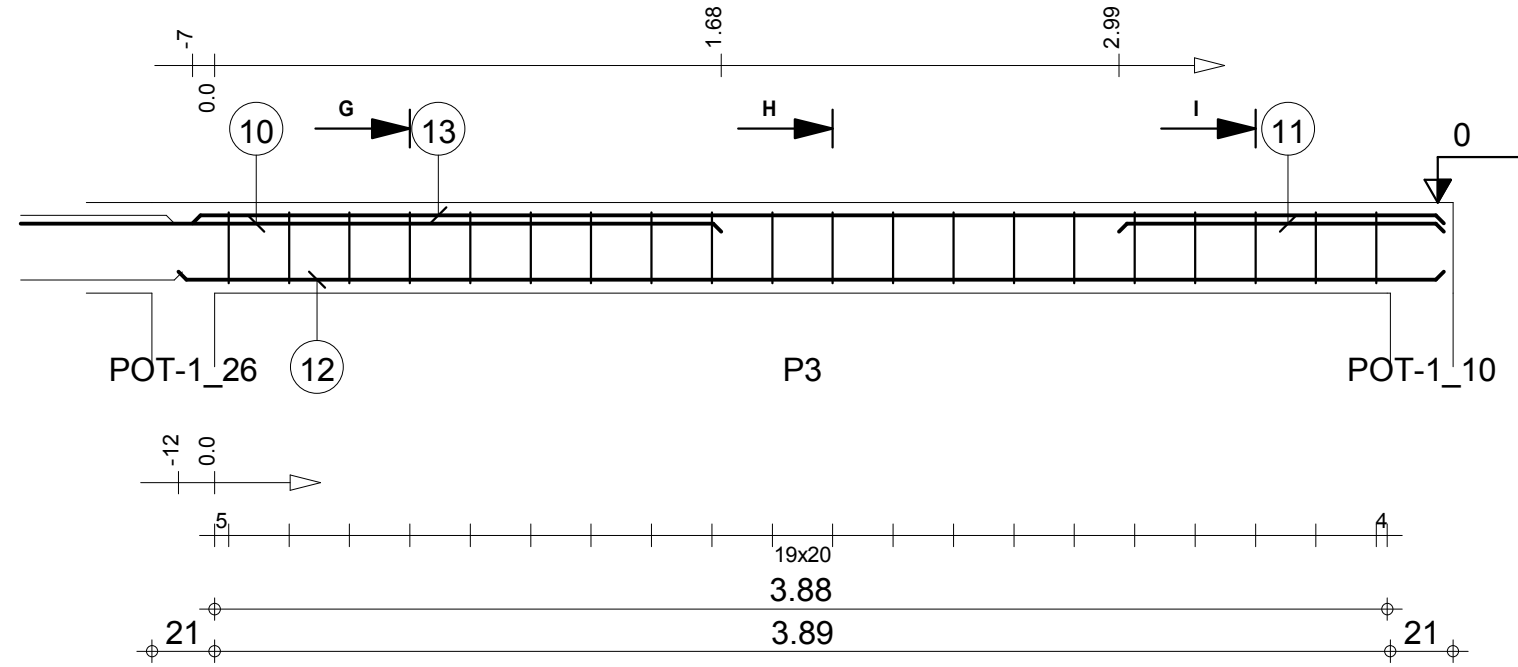
Acier HA 400 = 1.75 kg

Acier HA 400 = 4.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

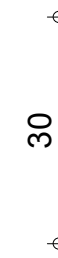
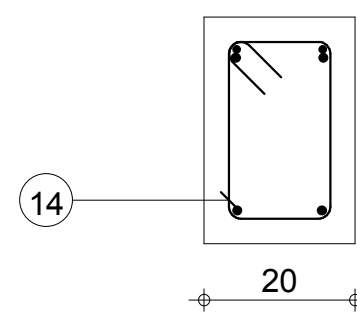
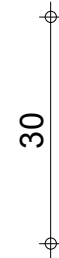
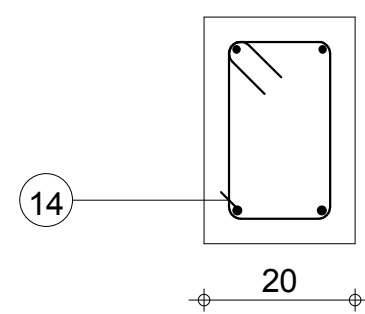
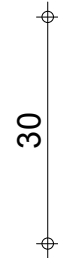
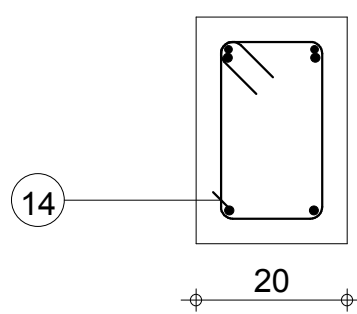
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ⑩ | 2HA 12 | l=3.05 | 00 | 3.05 |
| ⑪ | 2HA 12 | l=1.08 | 00 | 1.08 |
| ⑫ | 2HA 12 | l=4.19 | 00 | 4.19 |
| ⑬ | 2HA 10 | l=4.14 | 00 | 4.14 |
| ⑭ | 20HA 6 | l=88 | 31 | |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRF.49: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.252 m3

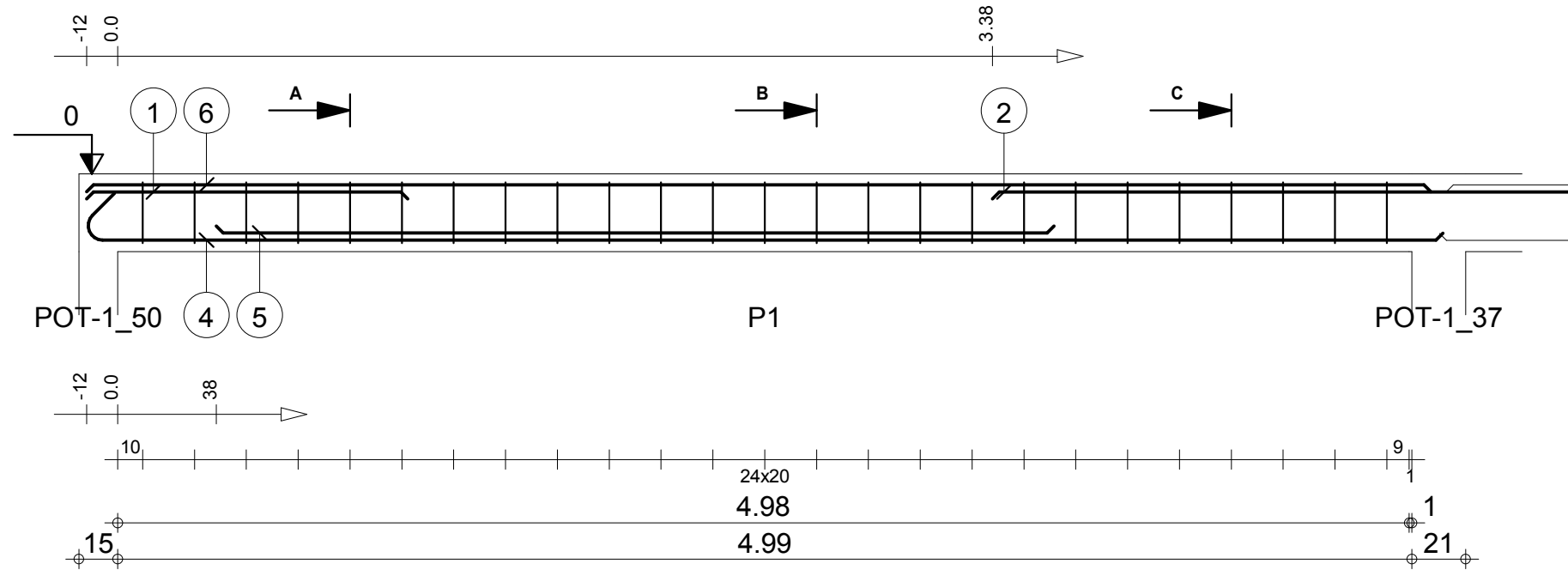
Acier HA 400 = 3.9 kg

Acier HA 400 = 19.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

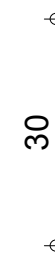
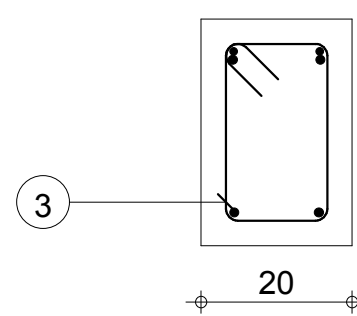
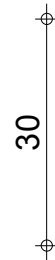
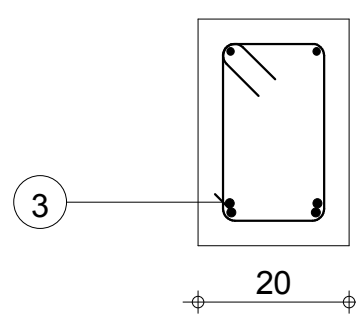
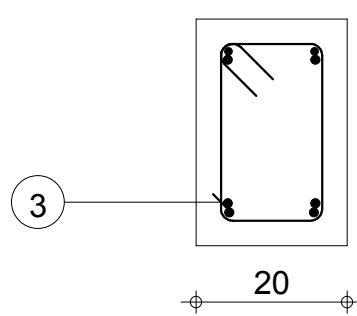
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.24 | 00 | 1.24 |
| ② | 2HA 12 | l=2.86 | 00 | 2.86 |
| ③ | 25HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=5.42 | 00 | 5.23 |
| ⑤ | 2HA 12 | l=3.23 | 00 | 3.23 |
| ⑥ | 2HA 10 | l=5.19 | 00 | 5.19 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRH.49: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.315 m3

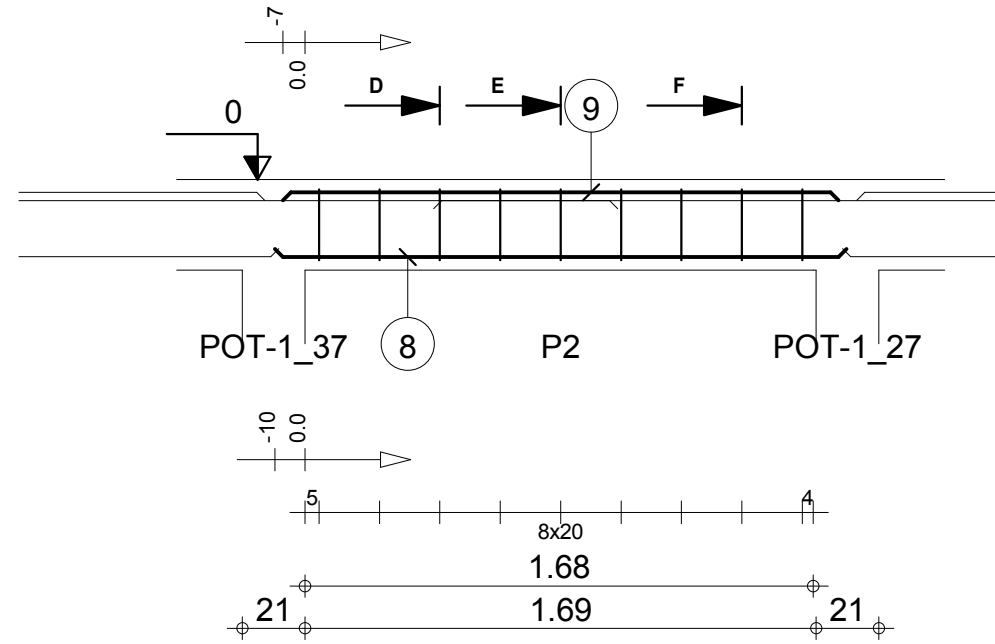
Acier HA 400 = 4.87 kg

Acier HA 400 = 29 kg

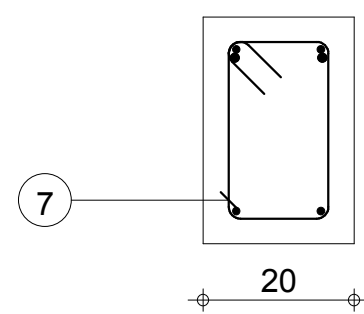
-1

MINHDU_BAMBOUTOS_POUTRES

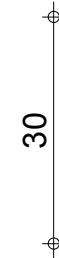
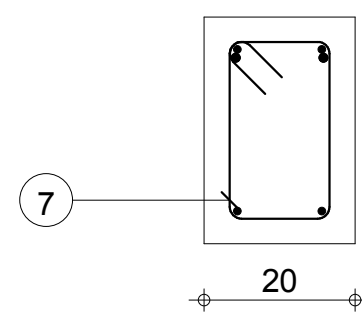
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 9HA 6 | l=87 | 31 | |
| 8 | 2HA 10 | l=1.89 | 00 | |
| 9 | 2HA 10 | l=1.84 | 00 | |



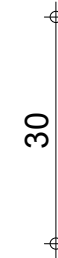
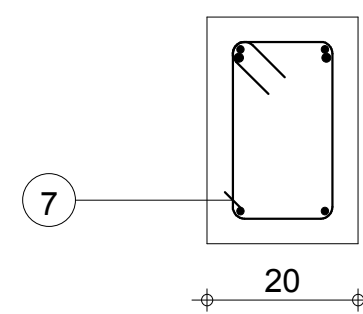
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRH.49: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4


Béton : BETON20 = 0.114 m3

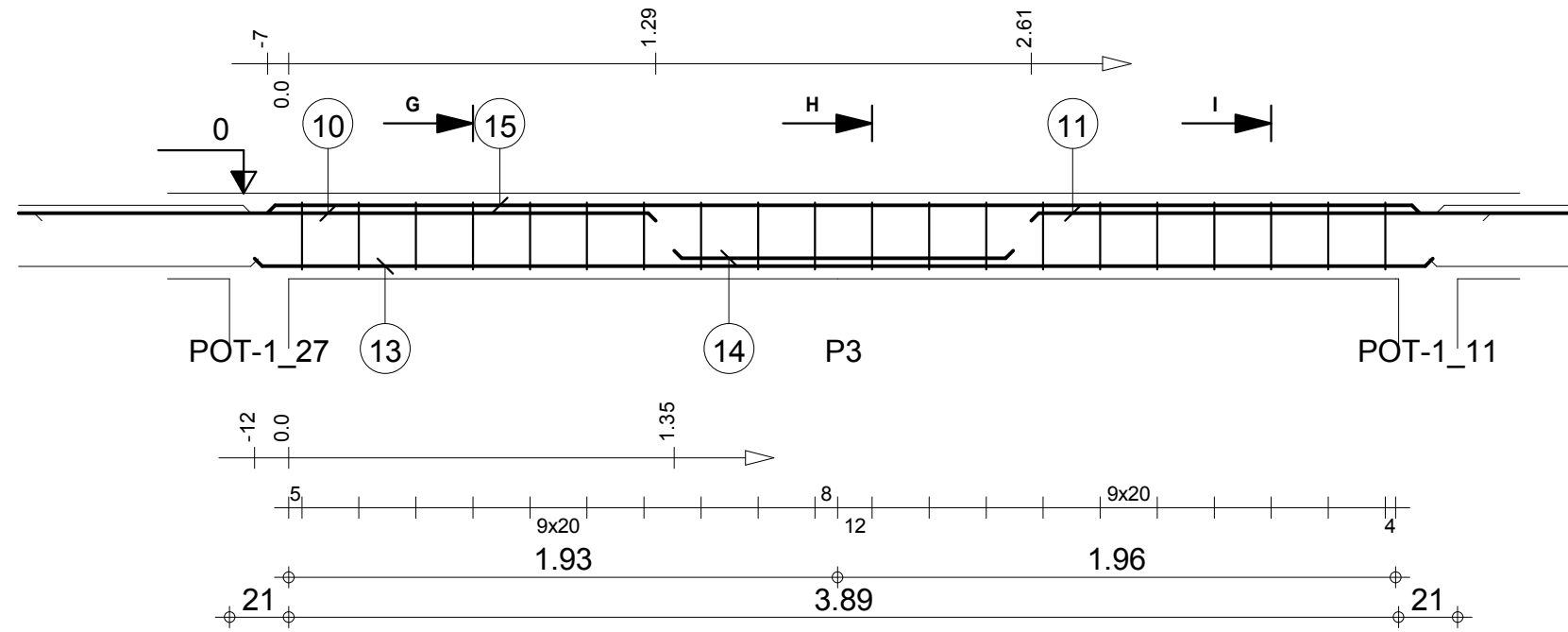
Acier HA 400 = 1.75 kg

Acier HA 400 = 4.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

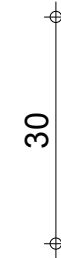
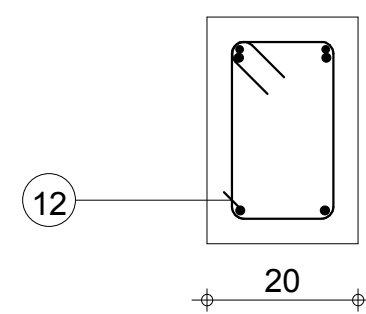
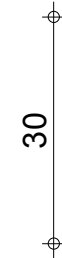
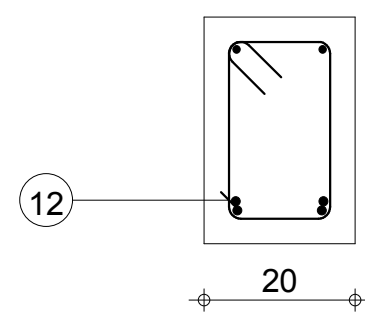
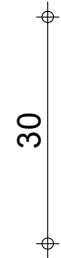
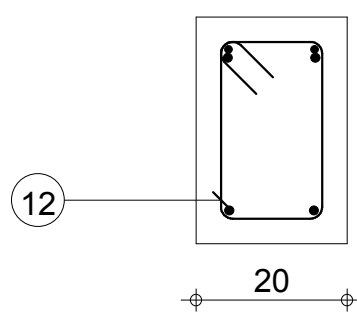
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| ⑩ | 2HA 12 | l=2.76 | 00 2.76 |
| ⑪ | 2HA 12 | l=2.44 | 00 2.43 |
| ⑫ | 2*10HA 6 | l=88 | 31  |
| ⑬ | 2HA 12 | l=4.13 | 00 4.13 |
| ⑭ | 2HA 12 | l=1.19 | 00 1.19 |
| ⑮ | 2HA 10 | l=4.04 | 00 4.04 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRH.49: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.246 m3

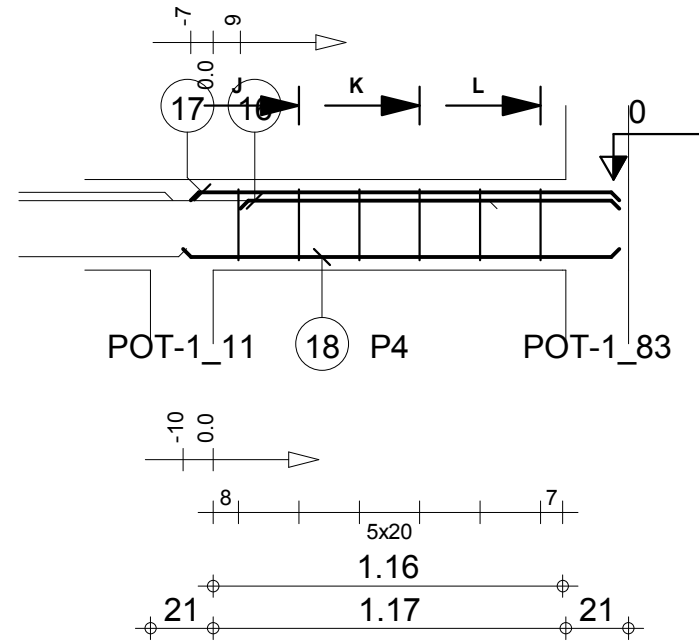
Acier HA 400 = 3.9 kg

Acier HA 400 = 23.7 kg

-1

MINHDU_BAMBOUTOS_POUTRES

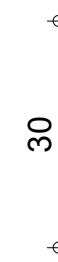
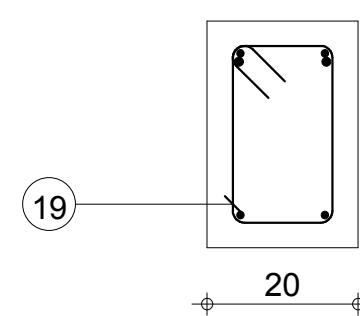
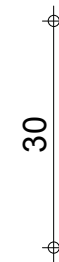
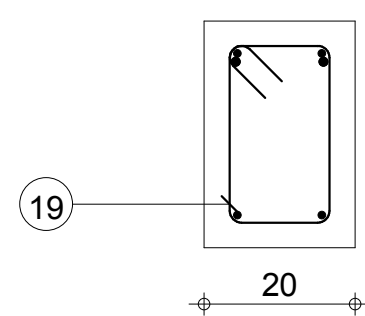
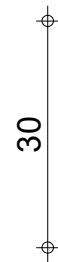
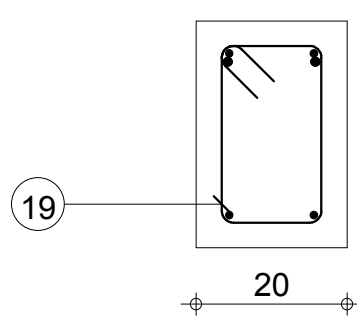
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 16 | 2HA 12 | l=1.26 | 00 | 1.26 |
| 17 | 2HA 10 | l=1.42 | 00 | 1.42 |
| 18 | 2HA 10 | l=1.45 | 00 | 1.45 |
| 19 | 6HA 6 | l=87 | 31 | |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRH.49: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.0887 m3

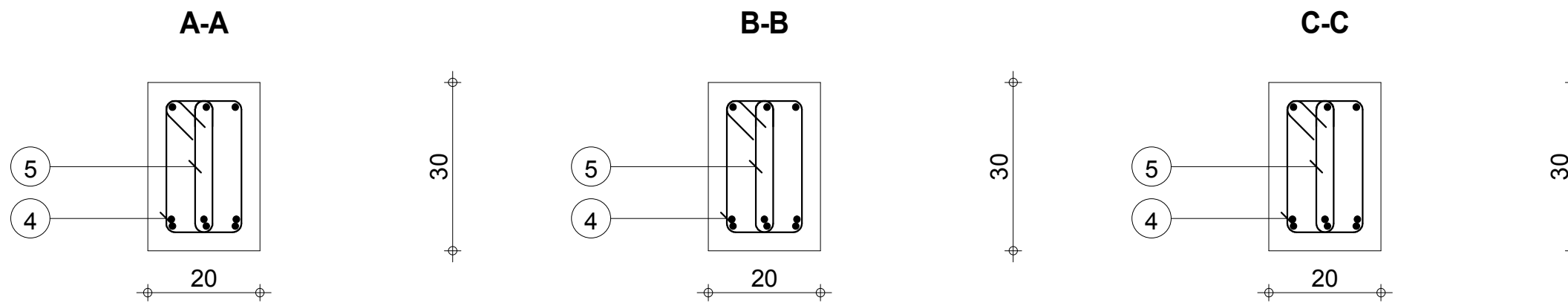
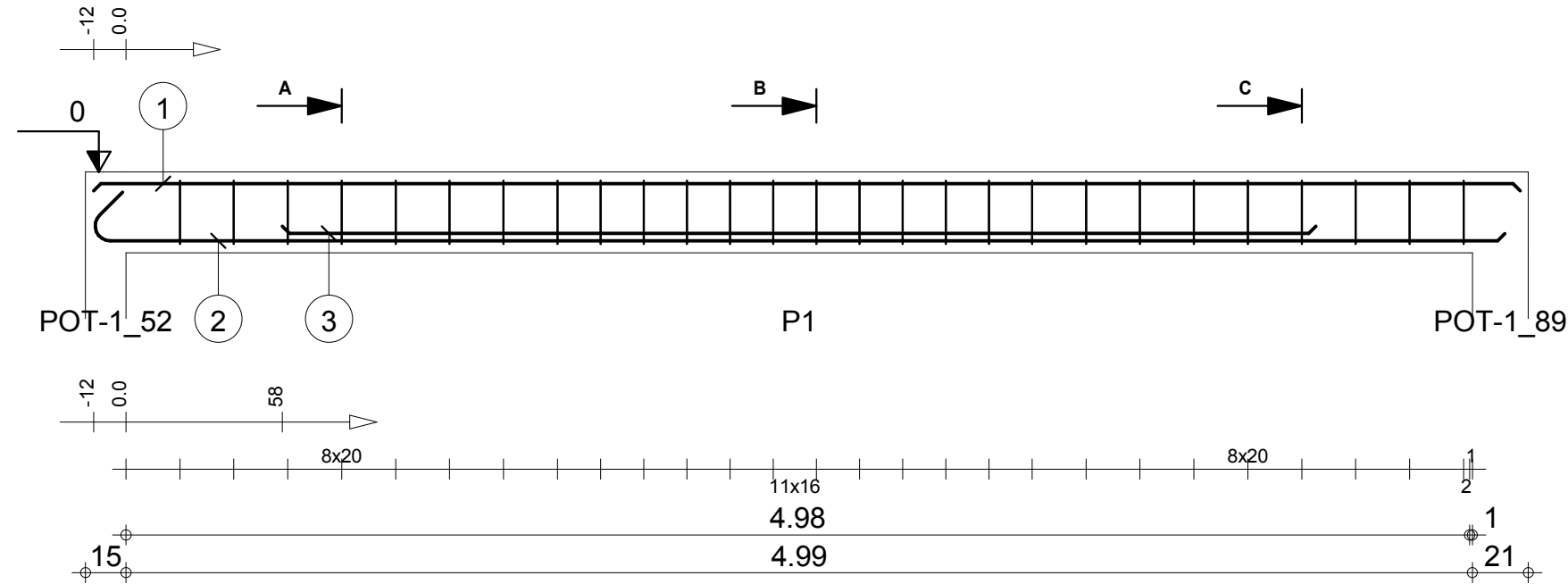
Acier HA 400 = 1.16 kg

Acier HA 400 = 5.76 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 3HA 12 | l=5.29 | 00 | 5.29 |
| ② | 3HA 12 | l=5.42 | 00 | 5.23 |
| ③ | 3HA 12 | l=3.83 | 00 | 3.83 |
| ④ | 27HA 6 | l=88 | 31 | |
| ⑤ | 27HA 6 | l=61 | | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRI.89: P1

Section 20x30

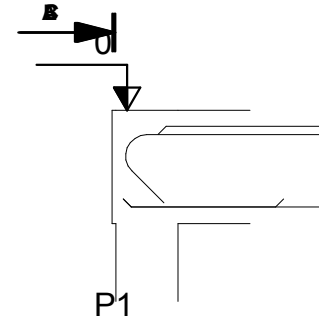
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.321 m3

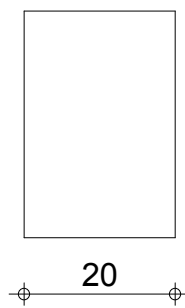
Acier HA 400 = 8.93 kg

Acier HA 400 = 38.7 kg



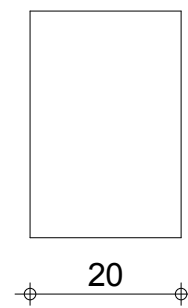
1 17

A-A



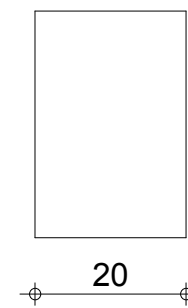
30

B-B



30

C-C



30

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRI.1014: P1

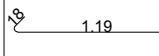

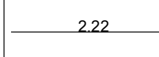
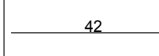
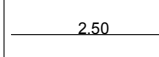
Section 20x30

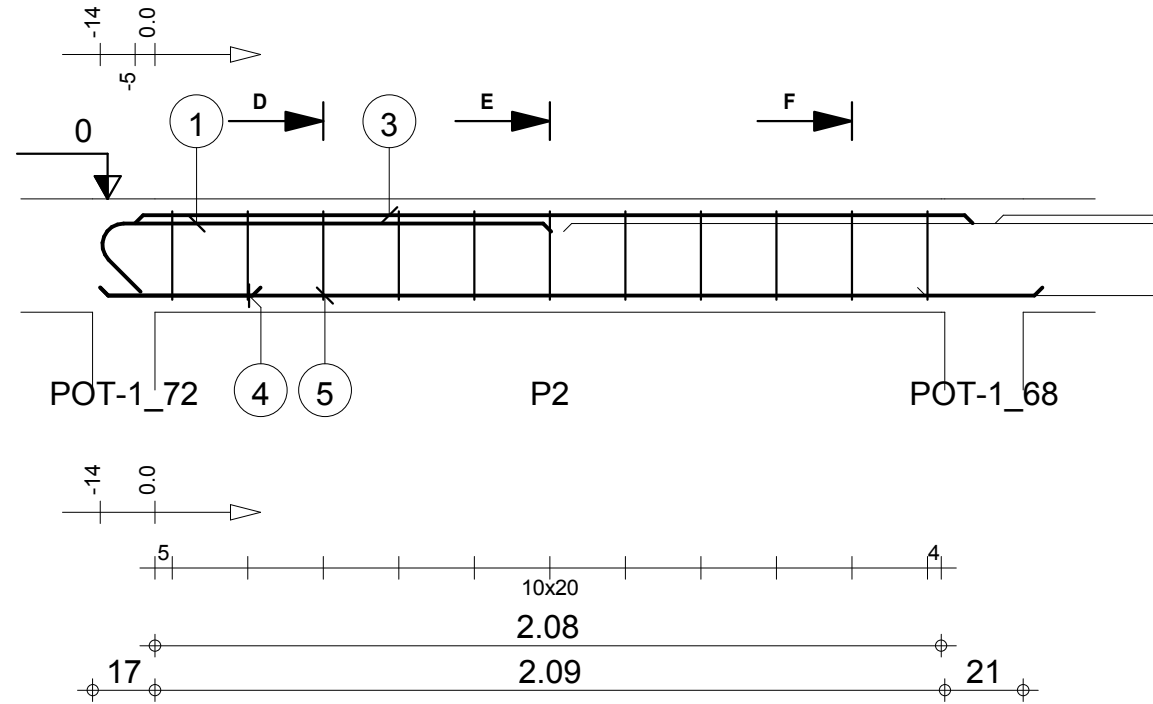
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

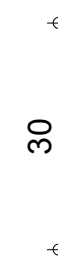
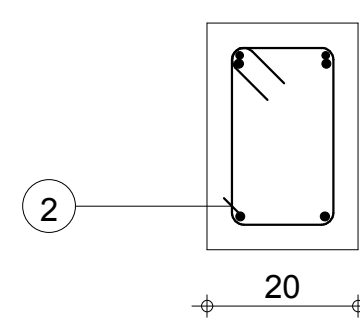
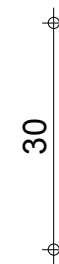
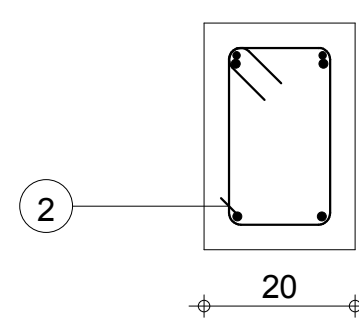
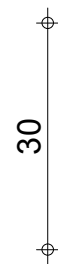
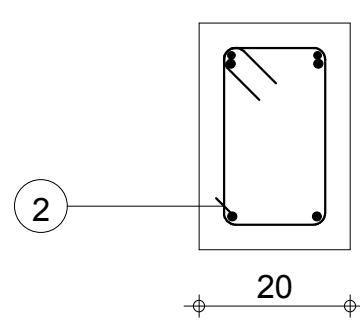
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.39 | 00 |  |
| ② | 11HA 6 | l=88 | 31 |  |
| ③ | 2HA 10 | l=2.22 | 00 |  |
| ④ | 2HA 12 | l=42 | 00 |  |
| ⑤ | 2HA 12 | l=2.50 | 00 |  |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRI.1014: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5


Béton : BETON20 = 0.137 m3

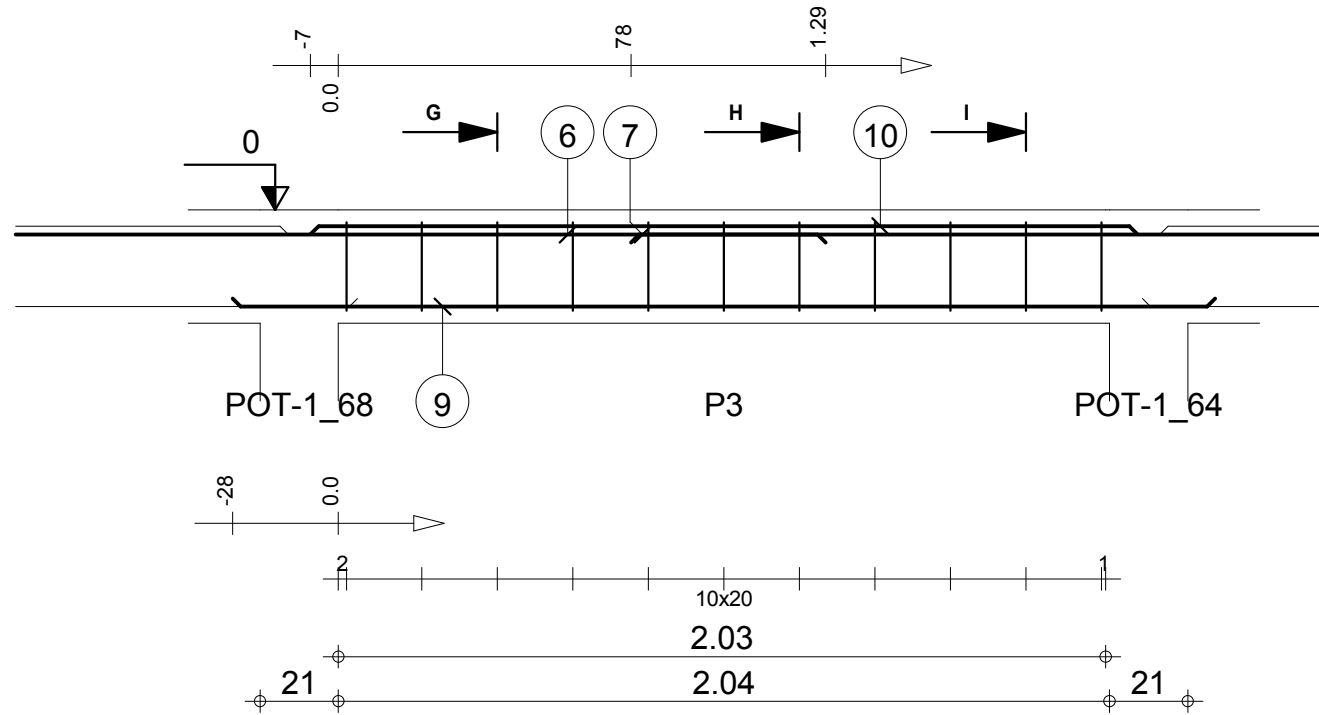
Acier HA 400 = 2.14 kg

Acier HA 400 = 10.4 kg

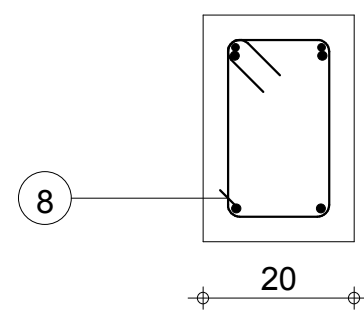
-1

MINHDU_BAMBOUTOS_POUTRES

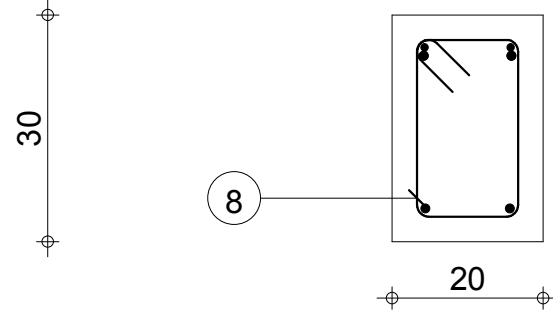
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 6 | 2HA 12 | l=2.51 | 00 2.51 |
| 7 | 2HA 12 | l=2.58 | 00 2.58 |
| 8 | 11HA 6 | l=88 | 31  |
| 9 | 2HA 12 | l=2.60 | 00 2.60 |
| 10 | 2HA 10 | l=2.19 | 00 2.19 |



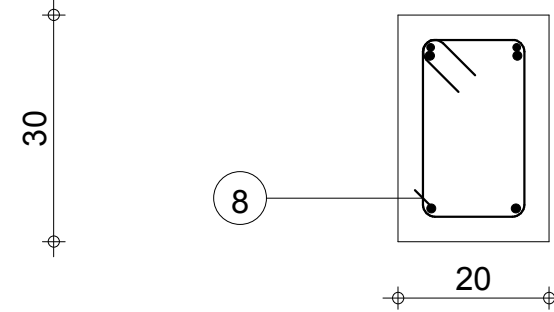
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRI.1014: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5


Béton : BETON20 = 0.135 m3

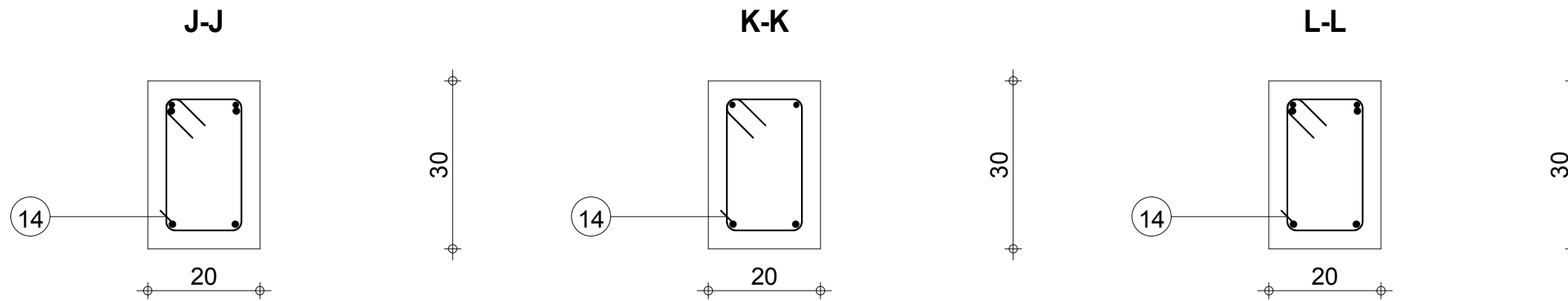
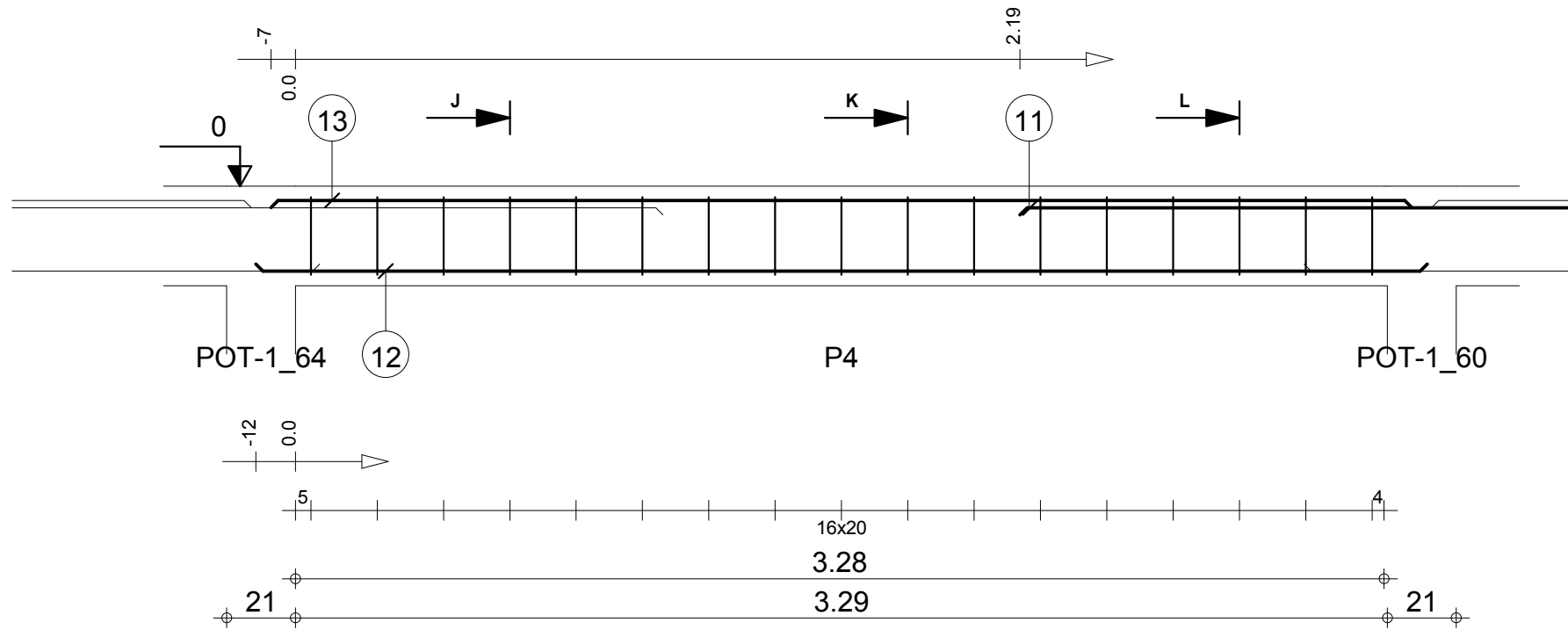
Acier HA 400 = 2.14 kg

Acier HA 400 = 16.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 11 | 2HA 12 | l=2.36 | 00 | 2.36 |
| 12 | 2HA 12 | l=3.53 | 00 | 3.53 |
| 13 | 2HA 10 | l=3.44 | 00 | 3.44 |
| 14 | 17HA 6 | l=88 | 31 |  |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRI.1014: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.21 m3

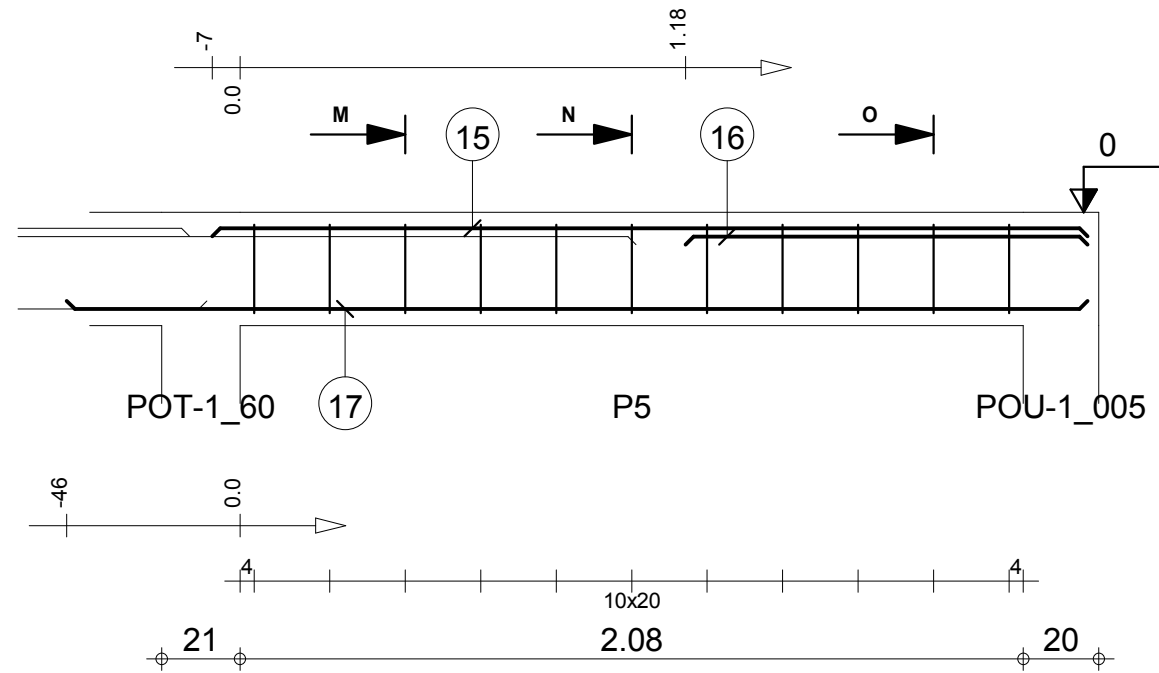
Acier HA 400 = 3.31 kg

Acier HA 400 = 14.7 kg

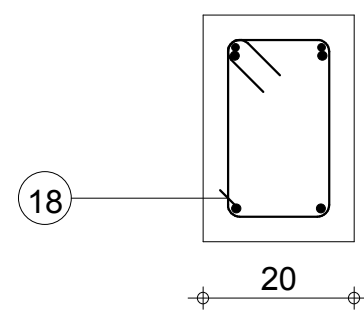
-1

MINHDU_BAMBOUTOS_POUTRES

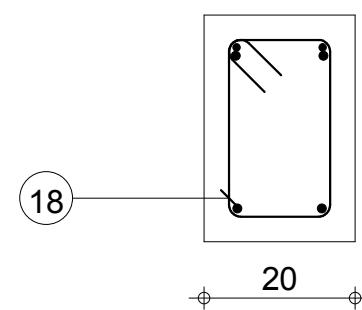
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 2HA 10 | l=2.32 | 00 | 2.32 |
| 16 | 2HA 12 | l=1.06 | 00 | 1.07 |
| 17 | 2HA 12 | l=2.70 | 00 | 2.70 |
| 18 | 11HA 6 | l=88 | 31 | |



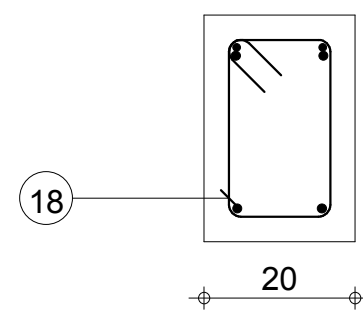
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRI.1014: P5

Section 20x30

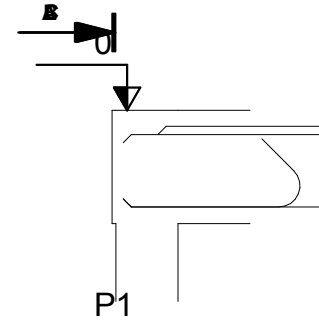
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.143 m3

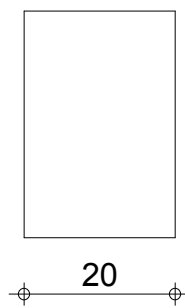
Acier HA 400 = 2.14 kg

Acier HA 400 = 9.55 kg



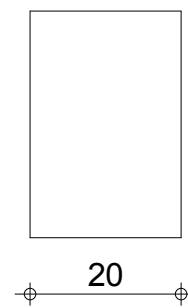
1 17

A-A



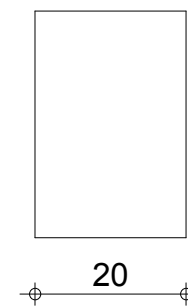
30

B-B



30

C-C



30

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRJ1014: P1


Section 20x30

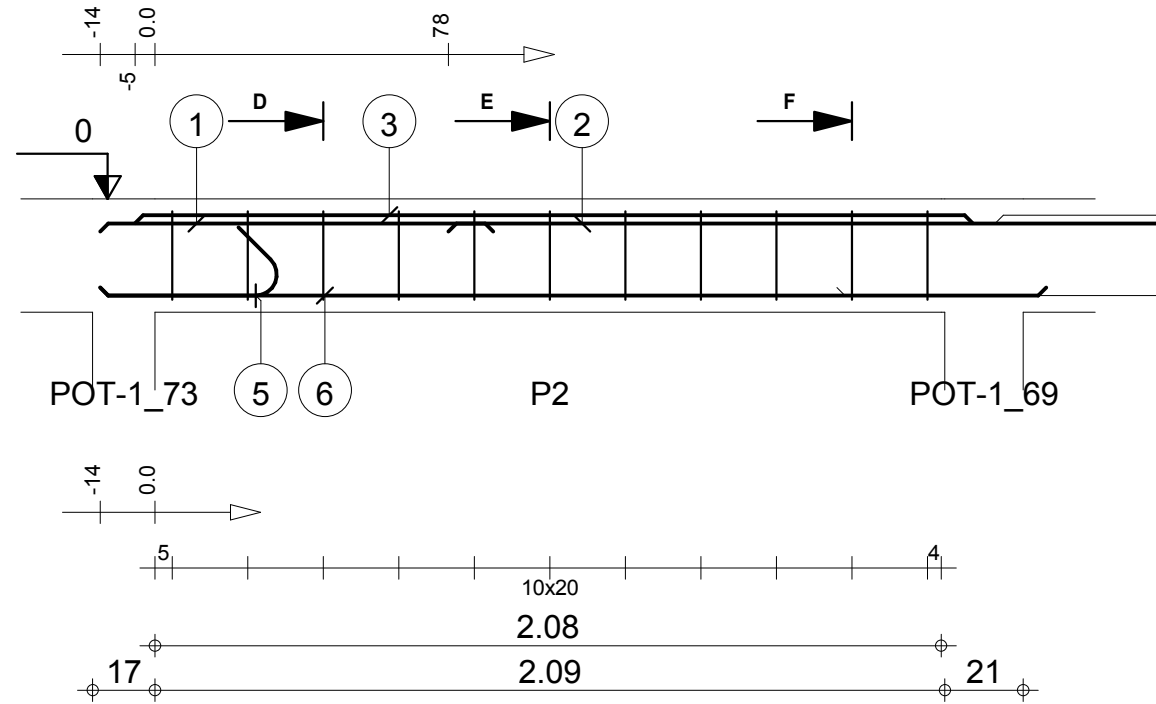
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

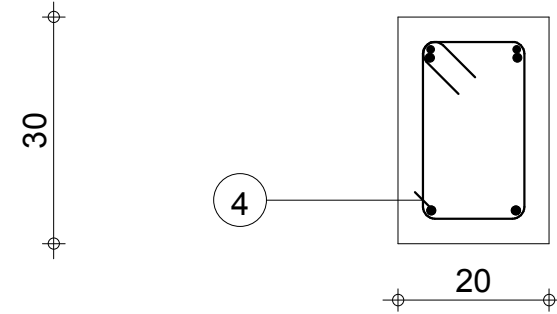
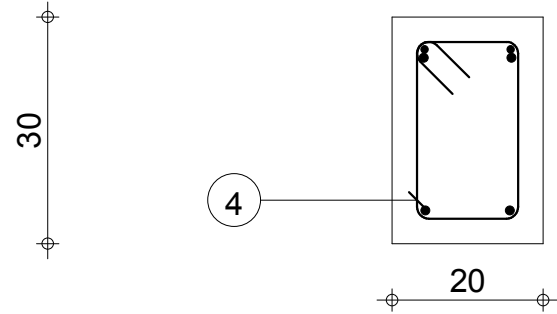
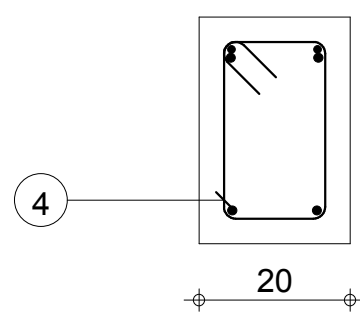
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.04 | 00 | 1.04 |
| ② | 2HA 12 | l=2.62 | 00 | 2.62 |
| ③ | 2HA 10 | l=2.22 | 00 | 2.22 |
| ④ | 11HA 6 | l=88 | 31 |  |
| ⑤ | 2HA 12 | l=66 | 00 | 47 |
| ⑥ | 2HA 12 | l=2.51 | 00 | 2.51 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRJ1014: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.137 m3

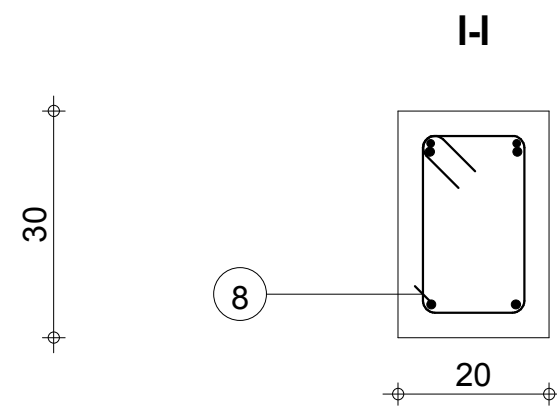
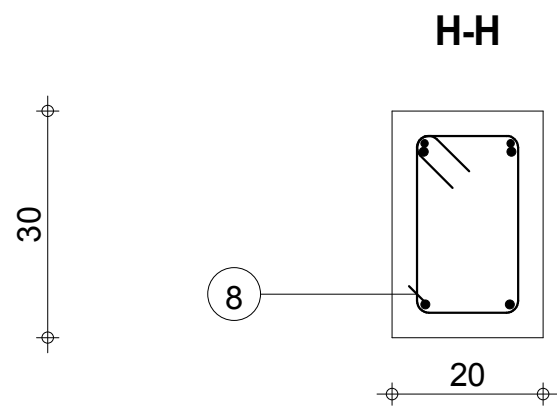
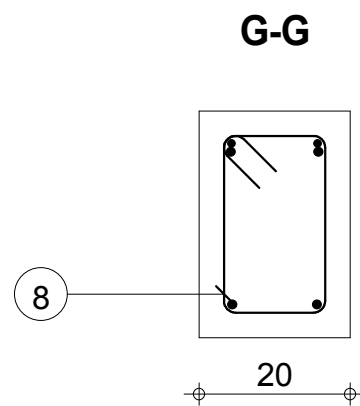
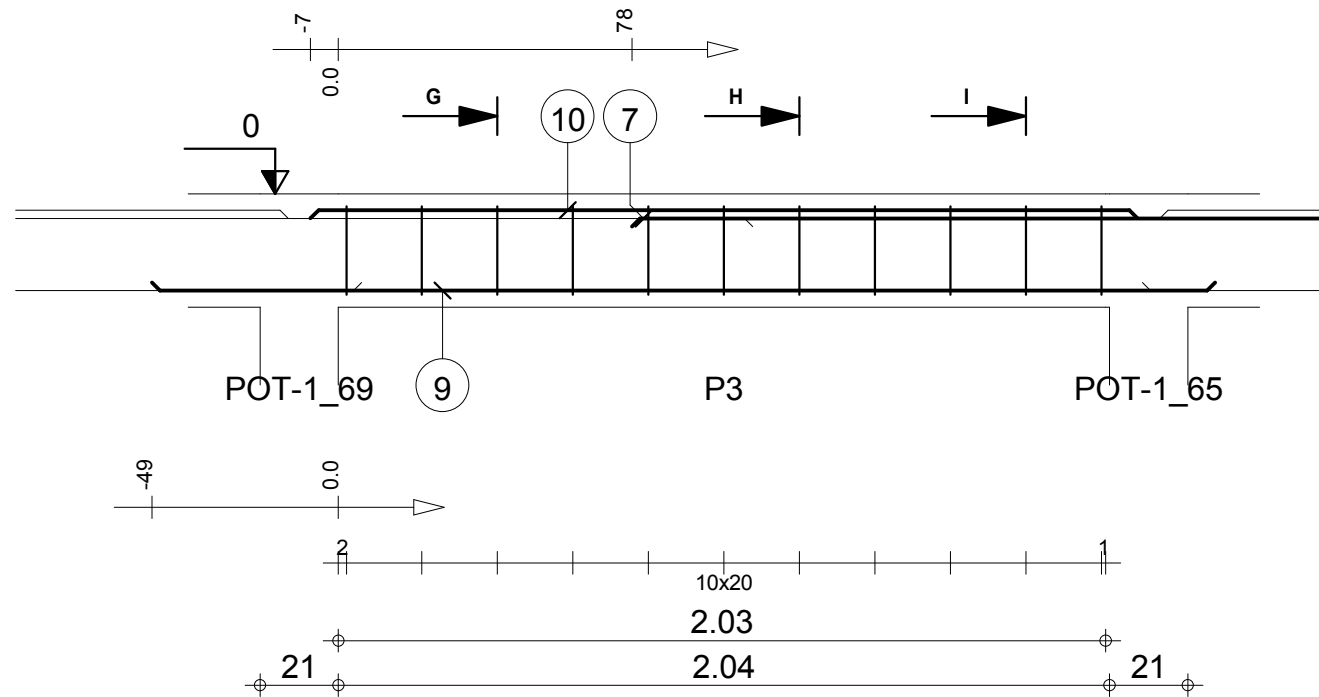
Acier HA 400 = 2.14 kg

Acier HA 400 = 14.9 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=2.58 | 00 | 2.58 |
| 8 | 11HA 6 | l=88 | 31 | |
| 9 | 2HA 12 | l=2.82 | 00 | 2.82 |
| 10 | 2HA 10 | l=2.19 | 00 | 2.19 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRJ1014: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5


Béton : BETON20 = 0.135 m3

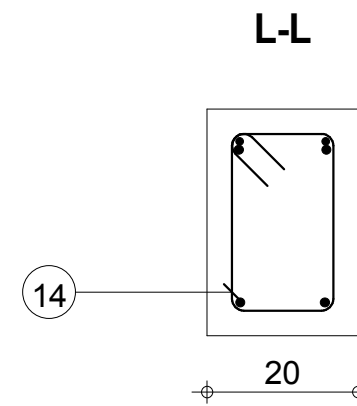
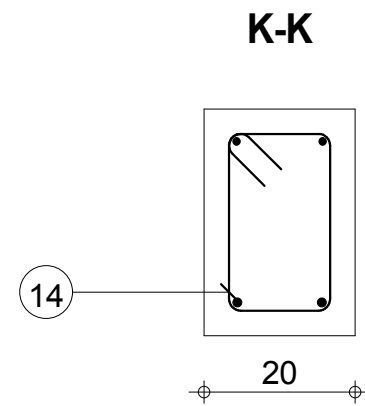
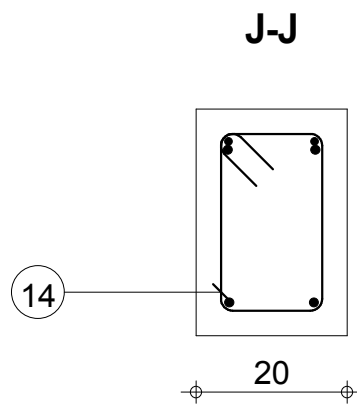
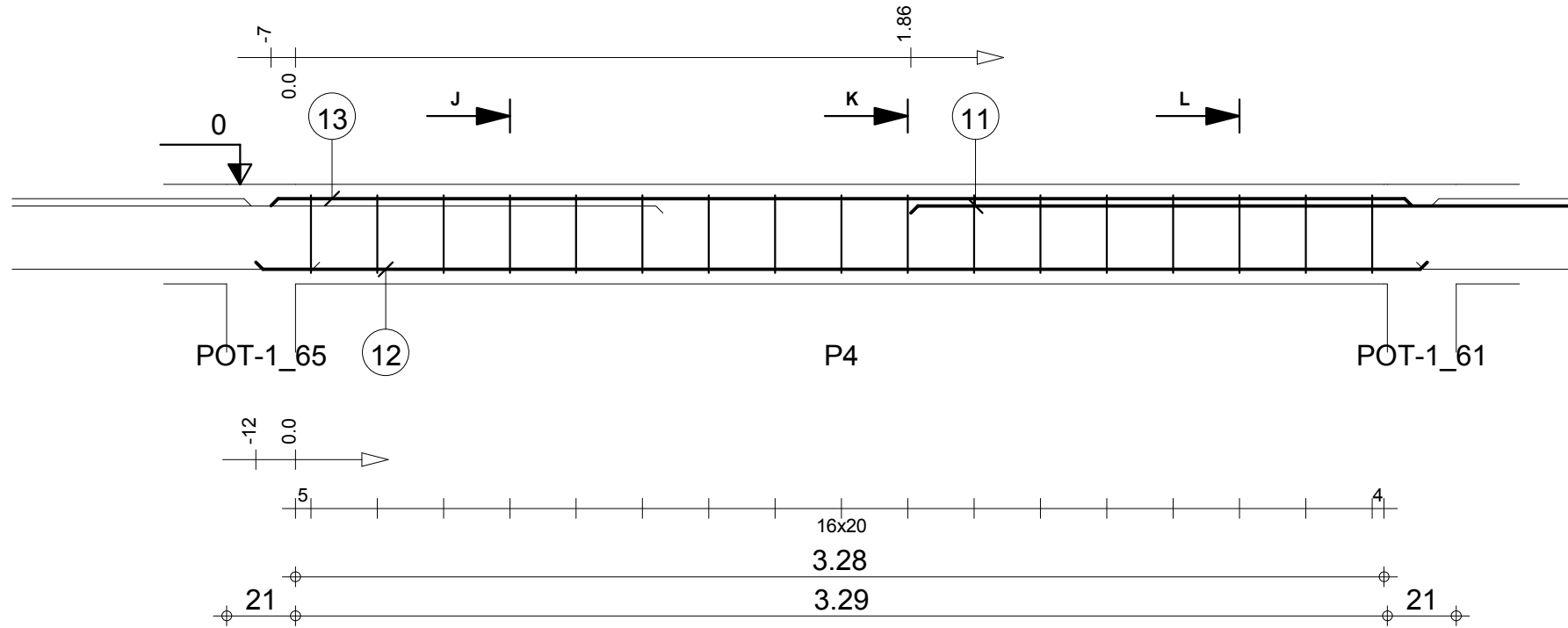
Acier HA 400 = 2.14 kg

Acier HA 400 = 12.3 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|---|
| 11 | 2HA 12 | l=2.50 | 00 | 2.50 |
| 12 | 2HA 12 | l=3.53 | 00 | 3.53 |
| 13 | 2HA 10 | l=3.44 | 00 | 3.44 |
| 14 | 17HA 6 | l=88 | 31 |  |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRJ1014: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.21 m3

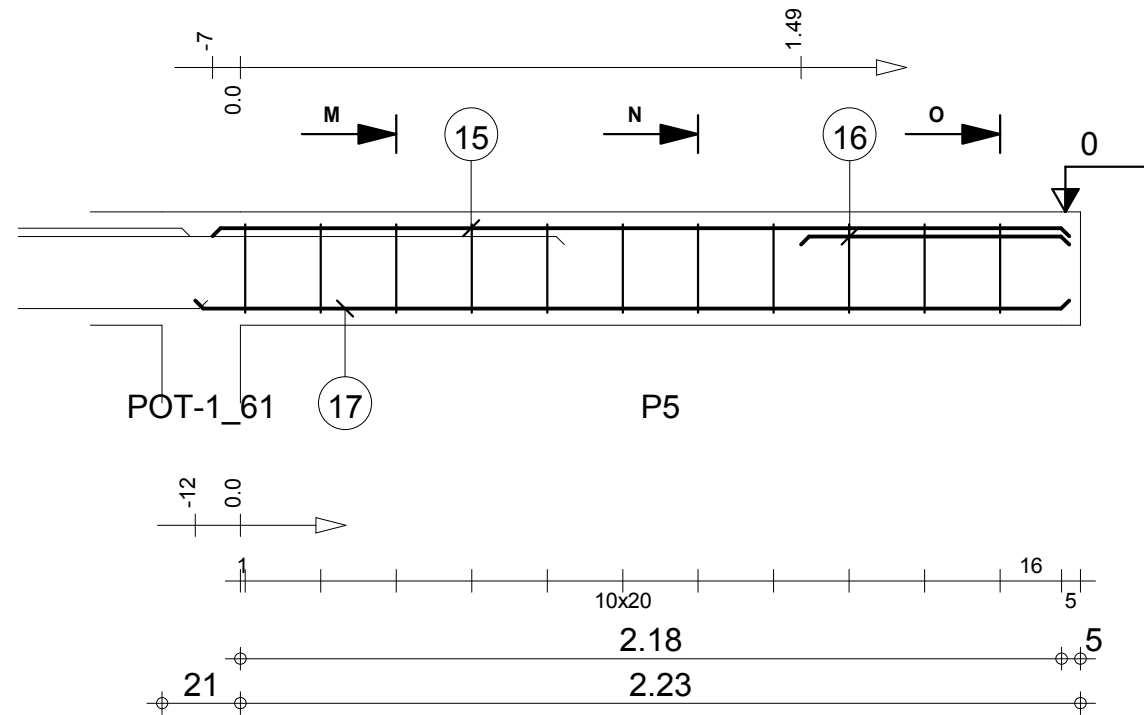
Acier HA 400 = 3.31 kg

Acier HA 400 = 15 kg

-1

MINHDU_BAMBOUTOS_POUTRES

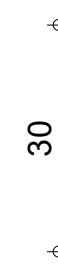
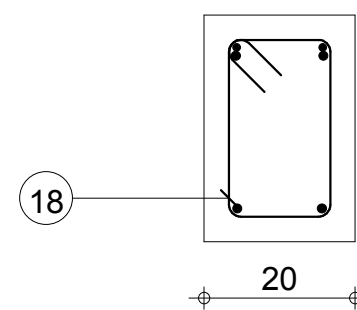
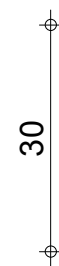
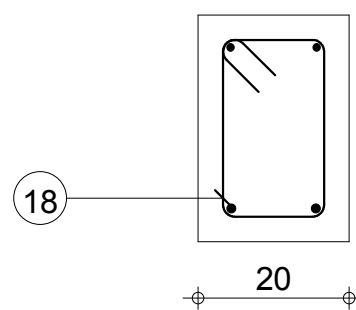
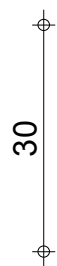
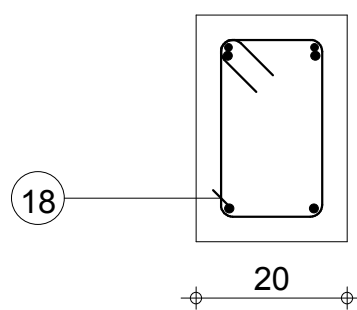
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 2HA 10 | l=2.27 | 00 | 2.27 |
| 16 | 2HA 12 | l=71 | 00 | 71 |
| 17 | 2HA 12 | l=2.31 | 00 | 2.32 |
| 18 | 11HA 6 | l=88 | 31 | |



M-M

N-N

O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRJ1014: P5

Section 20x30

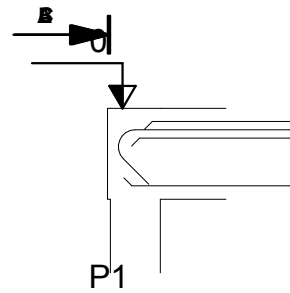
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.14 m3

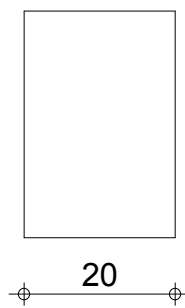
Acier HA 400 = 2.14 kg

Acier HA 400 = 8.17 kg

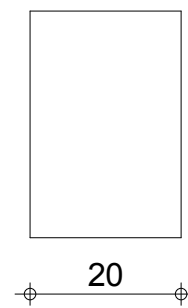


1.17

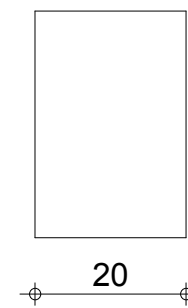
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRK.29: P1

Section 20x30

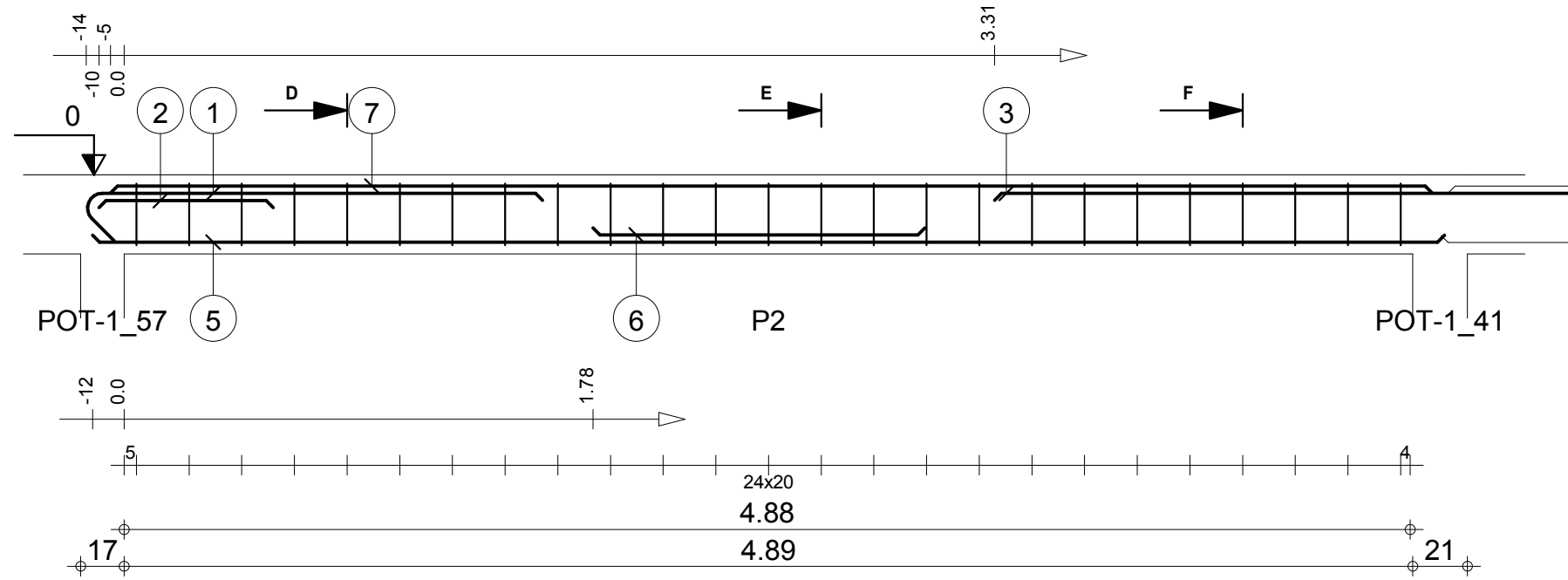
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

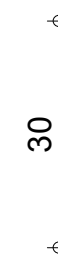
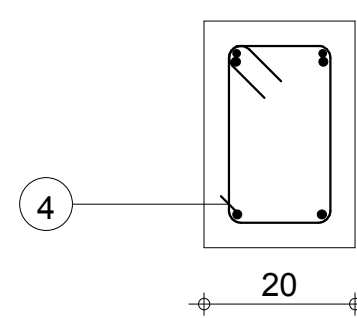
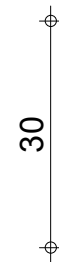
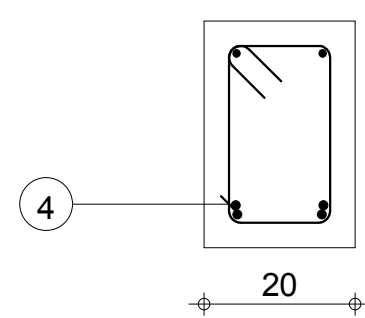
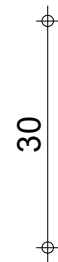
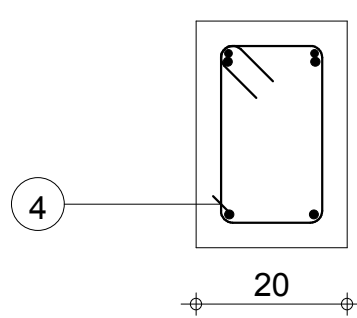
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.92 | 00 | |
| ② | 2HA 12 | l=66 | 00 | |
| ③ | 2HA 12 | l=2.84 | 00 | |
| ④ | 25HA 6 | l=88 | 31 | |
| ⑤ | 2HA 12 | l=5.13 | 00 | |
| ⑥ | 2HA 12 | l=1.26 | 00 | |
| ⑦ | 2HA 10 | l=5.02 | 00 | |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRK.29: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.305 m3

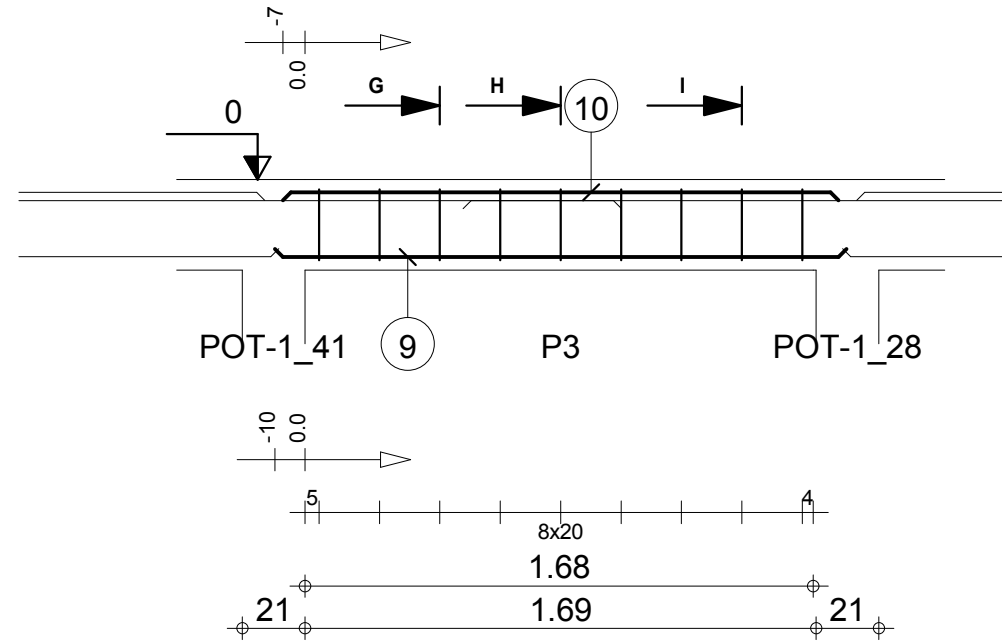
Acier HA 400 = 4.87 kg

Acier HA 400 = 27.2 kg

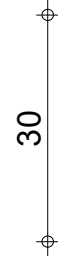
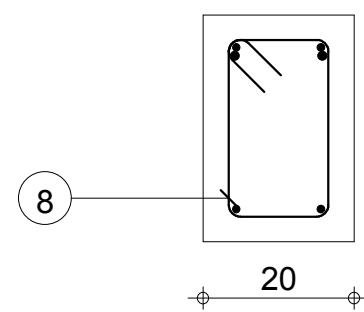
-1

MINHDU_BAMBOUTOS_POUTRES

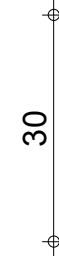
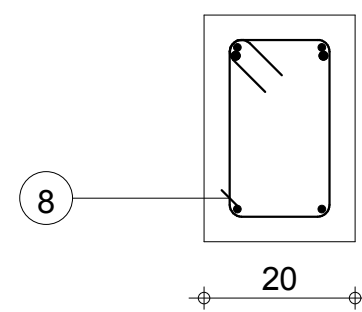
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 8 | 9HA 6 | I=87 | 31 | |
| 9 | 2HA 10 | I=1.89 | 00 | |
| 10 | 2HA 10 | I=1.84 | 00 | |



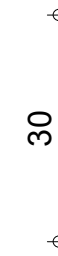
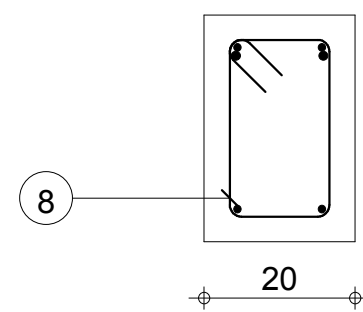
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRK.29: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.114 m3

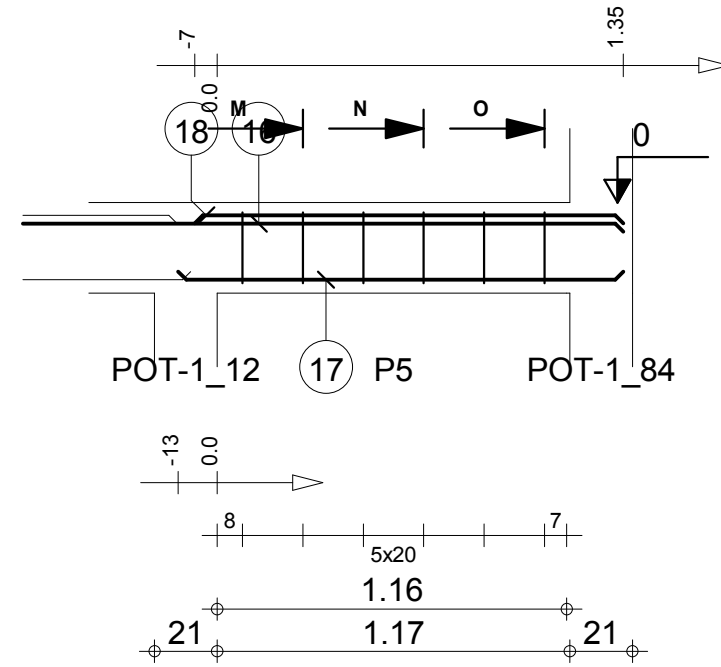
Acier HA 400 = 1.75 kg

Acier HA 400 = 4.6 kg

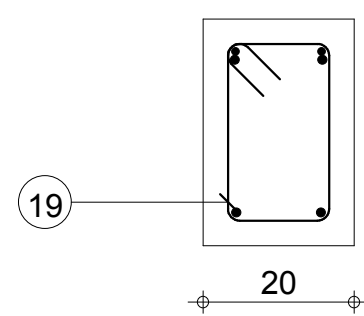
-1

MINHDU_BAMBOUTOS_POUTRES

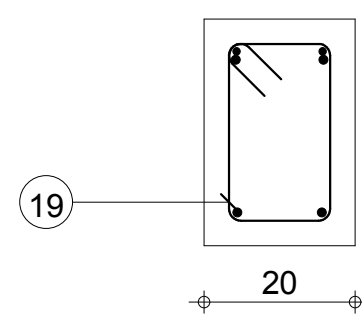
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 16 | 2HA 12 | l=2.84 | 00 | 2.84 |
| 17 | 2HA 12 | l=1.47 | 00 | 1.47 |
| 18 | 2HA 10 | l=1.42 | 00 | 1.42 |
| 19 | 6HA 6 | l=88 | 31 | |



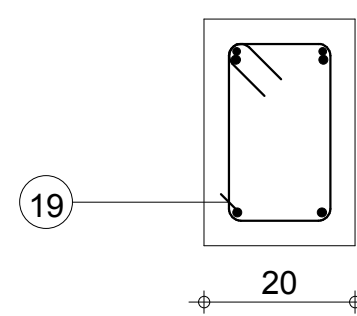
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRK.29: P5

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.0887 m3

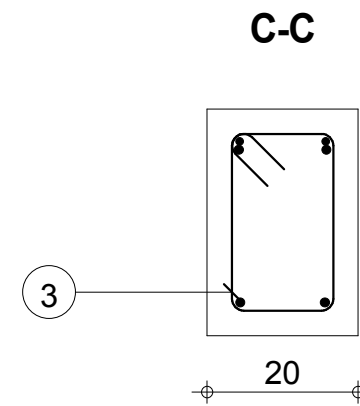
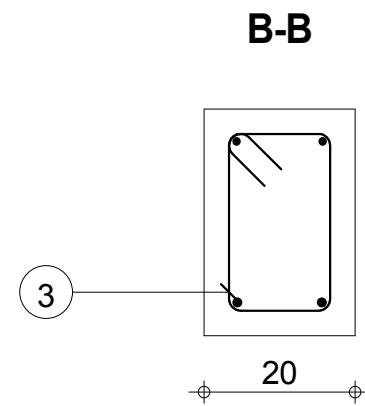
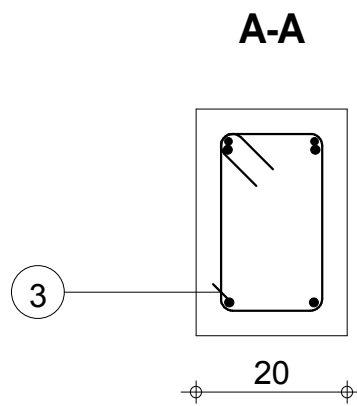
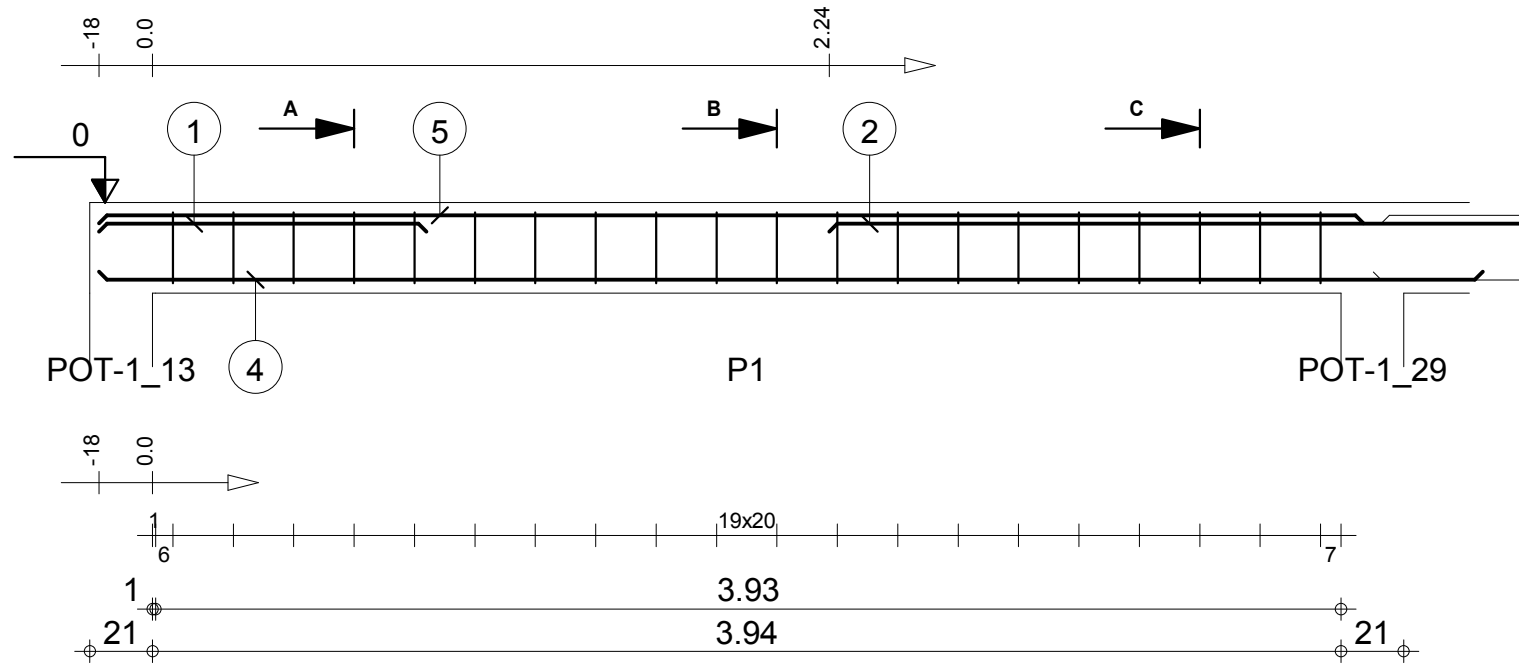
Acier HA 400 = 1.17 kg

Acier HA 400 = 9.41 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.09 | 00 | 1.08 |
| ② | 2HA 12 | l=3.26 | 00 | 3.26 |
| ③ | 20HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=4.58 | 00 | 4.58 |
| ⑤ | 2HA 10 | l=4.19 | 00 | 4.19 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRL.49: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.255 m3

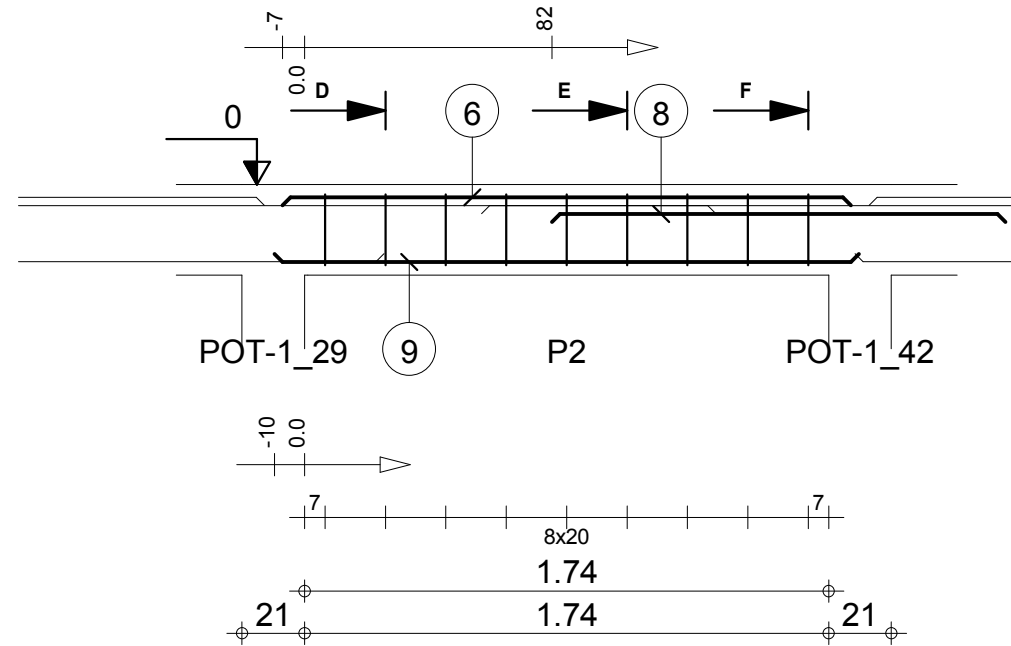
Acier HA 400 = 3.9 kg

Acier HA 400 = 21 kg

-1

MINHDU_BAMBOUTOS_POUTRES

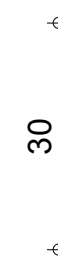
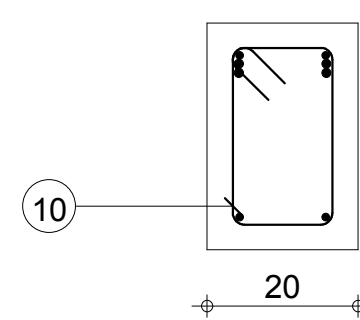
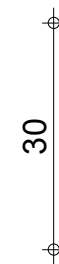
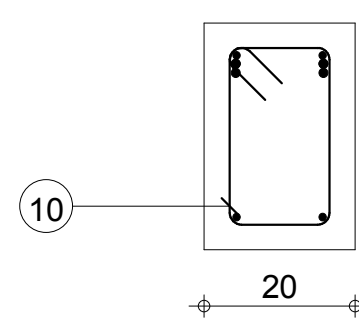
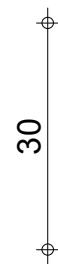
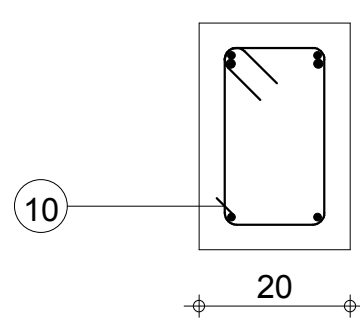
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 6 | 2HA 10 | l=1.88 | 00 | 1.88 |
| 8 | 2HA 12 | l=1.50 | 00 | 1.50 |
| 9 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 10 | 9HA 6 | l=88* | 31 |  |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRL.49: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.117 m3

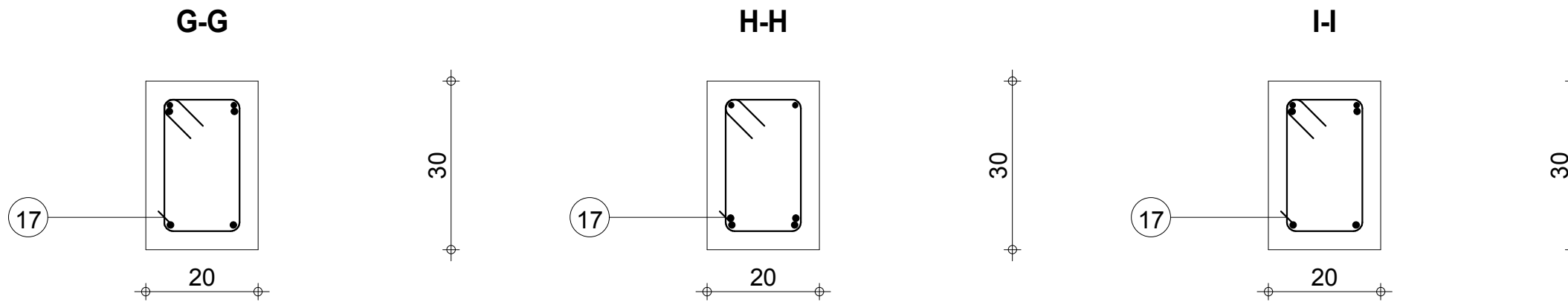
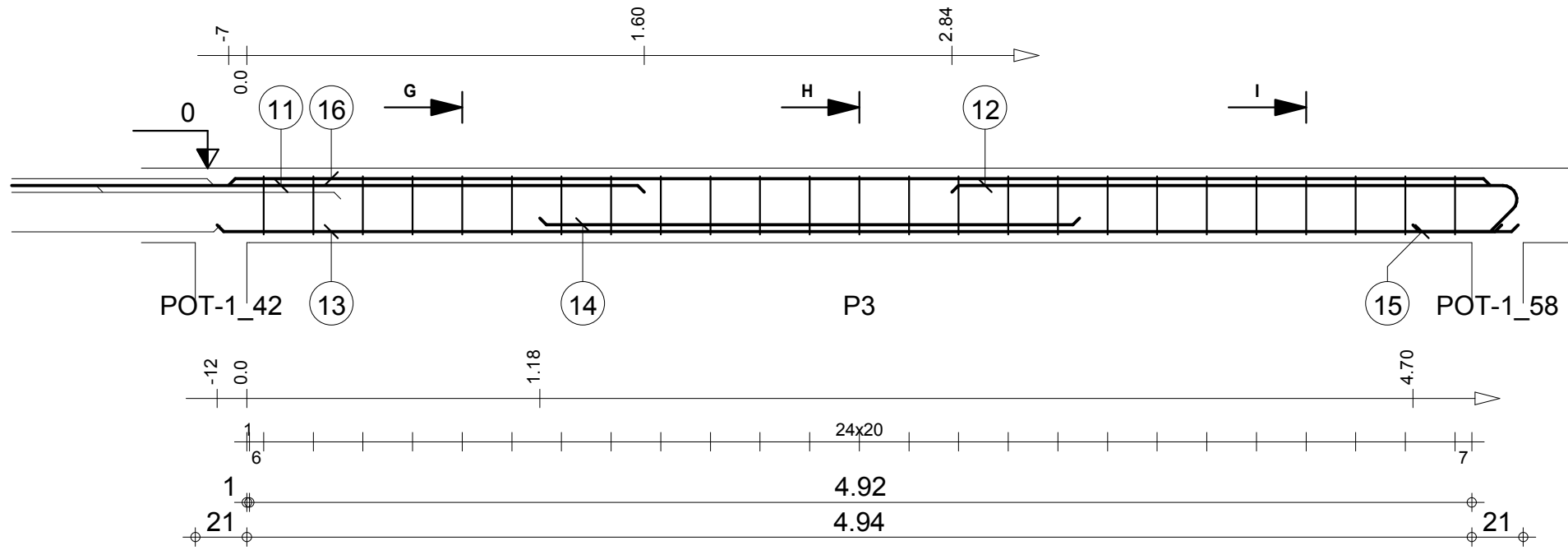
Acier HA 400 = 1.75 kg

Acier HA 400 = 7.37 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 11 | 2HA 12 | l=2.96 | 00 |
| 12 | 2HA 12 | l=2.47 | 00 |
| 13 | 2HA 12 | l=5.17 | 00 |
| 14 | 2HA 12 | l=2.18 | 00 |
| 15 | 2HA 12 | l=42 | 00 |
| 16 | 2HA 10 | l=5.08 | 00 |
| 17 | 25HA 6 | l=88 | 31 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRL.49: P3

Section 20x30

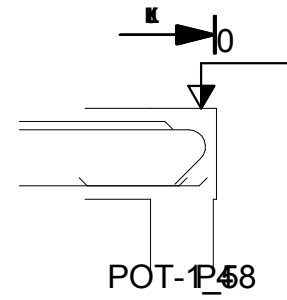
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.309 m3

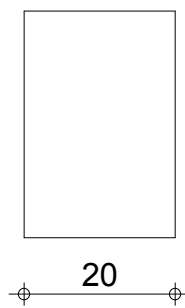
Acier HA 400 = 4.87 kg

Acier HA 400 = 29.7 kg



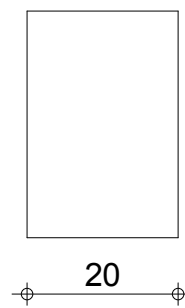
21

J-J



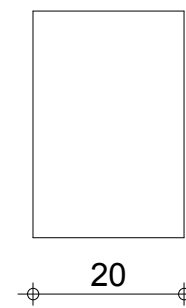
30

K-K



30

L-L



30

Tél.

Fax

Echelle pour la vue 1:25

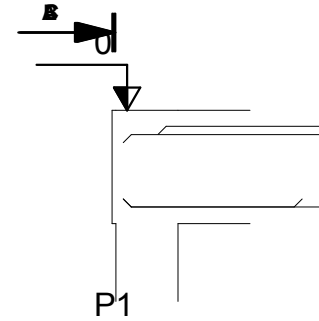
Echelle pour la section 1:10

LGRL.49: P4

Section 20x30

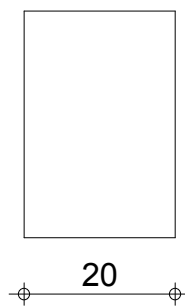
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00683 m3

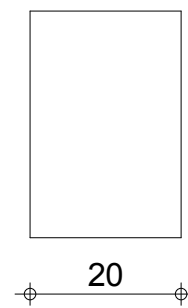


1 17

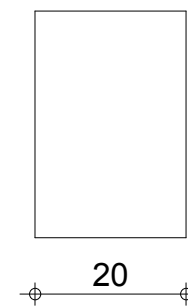
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRM1014: P1


Section 20x30

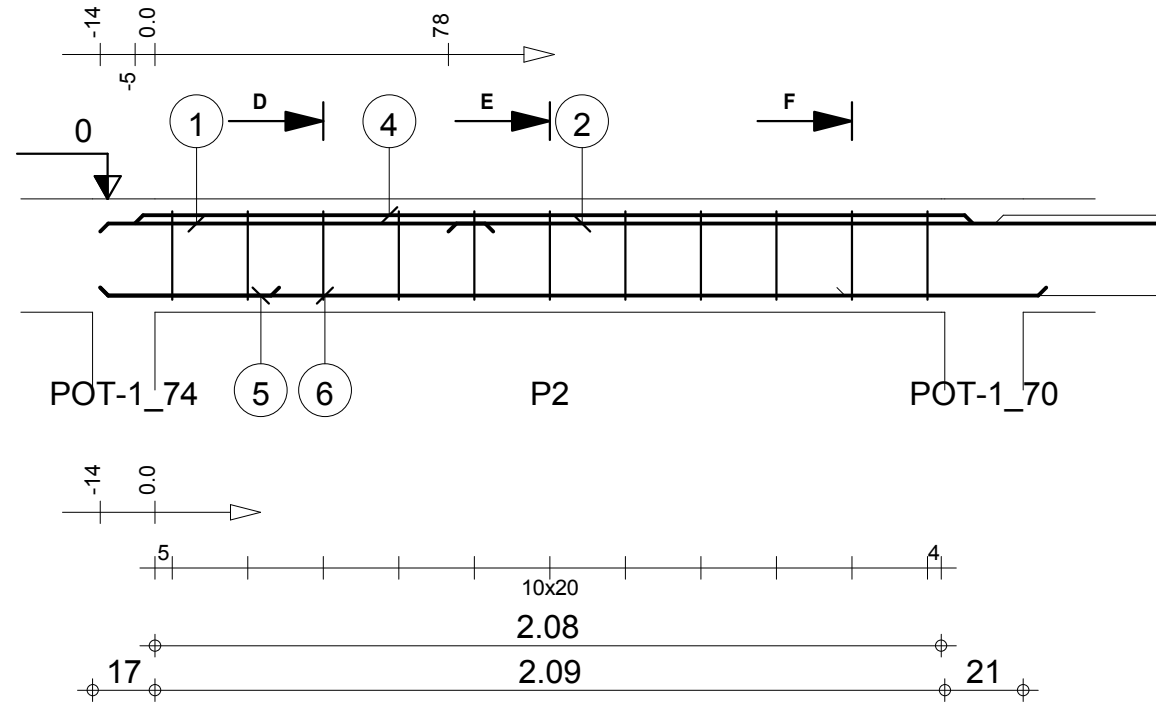
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

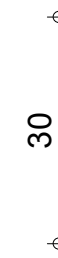
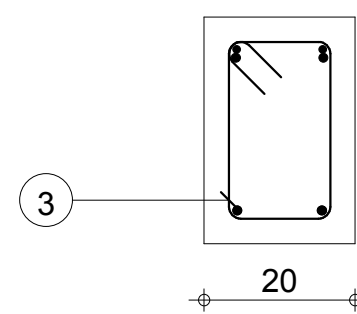
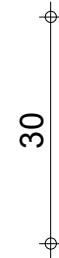
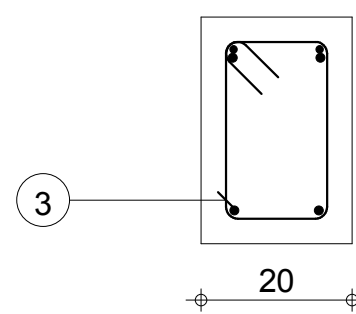
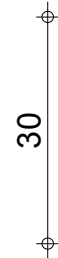
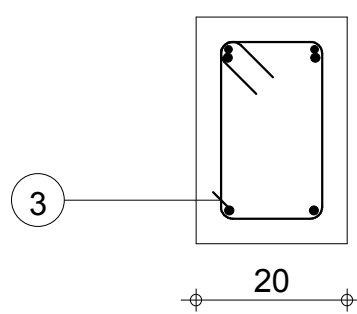
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.04 | 00 | 1.04 |
| ② | 2HA 12 | l=2.62 | 00 | 2.62 |
| ③ | 11HA 6 | l=88 | 31 |  |
| ④ | 2HA 10 | l=2.22 | 00 | 2.22 |
| ⑤ | 2HA 12 | l=47 | 00 | 47 |
| ⑥ | 2HA 12 | l=2.51 | 00 | 2.51 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRM1014: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.137 m3

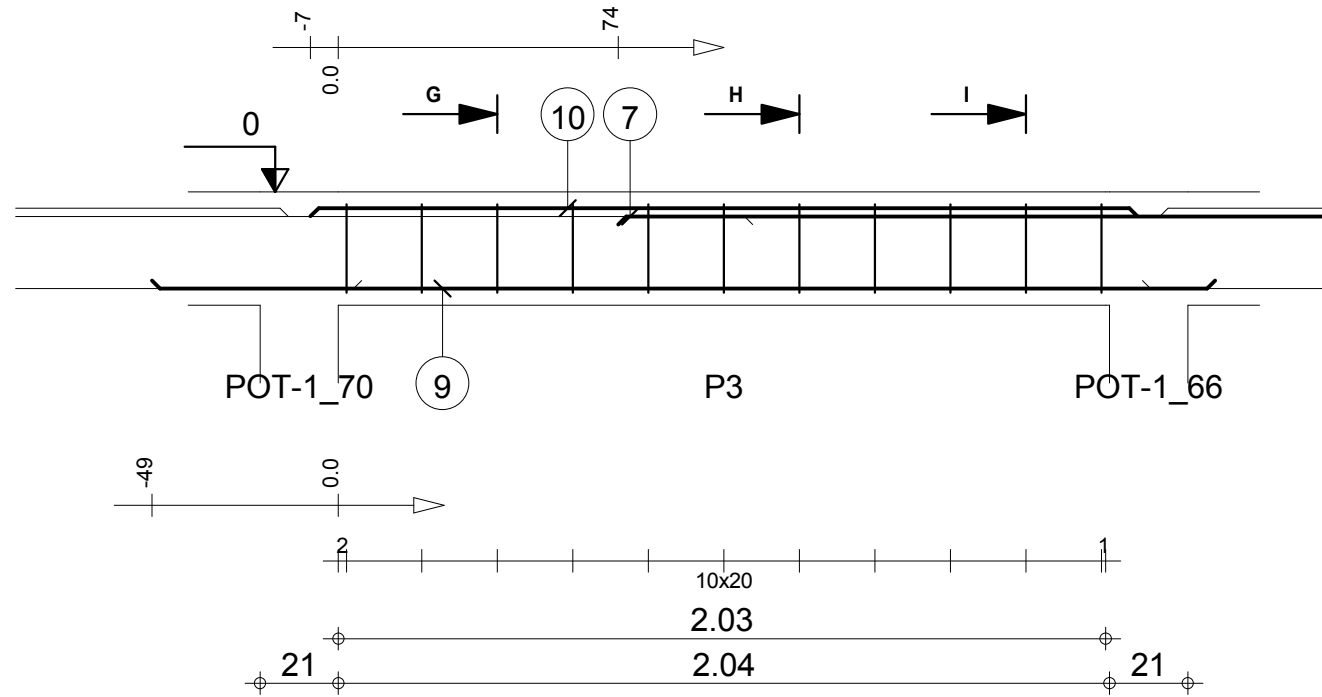
Acier HA 400 = 2.14 kg

Acier HA 400 = 14.5 kg

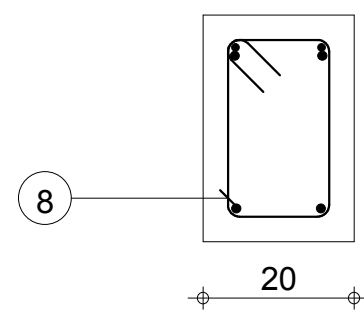
-1

MINHDU_BAMBOUTOS_POUTRES

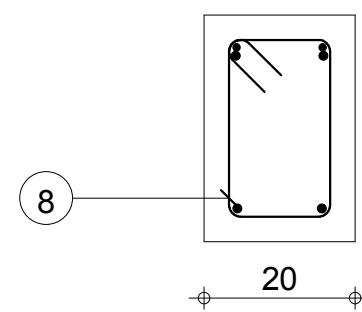
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=2.63 | 00 | 2.63 |
| 8 | 11HA 6 | l=88 | 31 | |
| 9 | 2HA 12 | l=2.82 | 00 | 2.82 |
| 10 | 2HA 10 | l=2.19 | 00 | 2.19 |



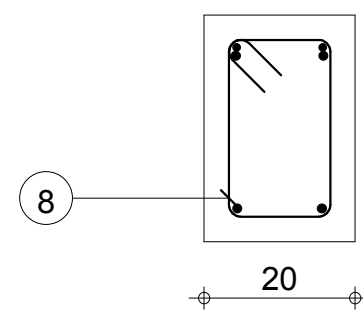
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRM1014: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.135 m3

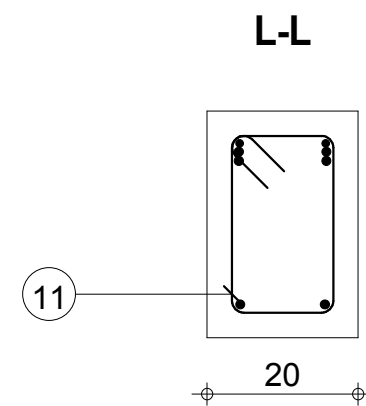
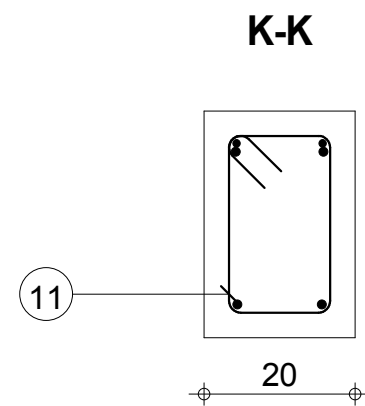
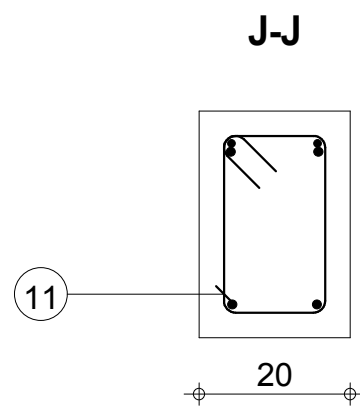
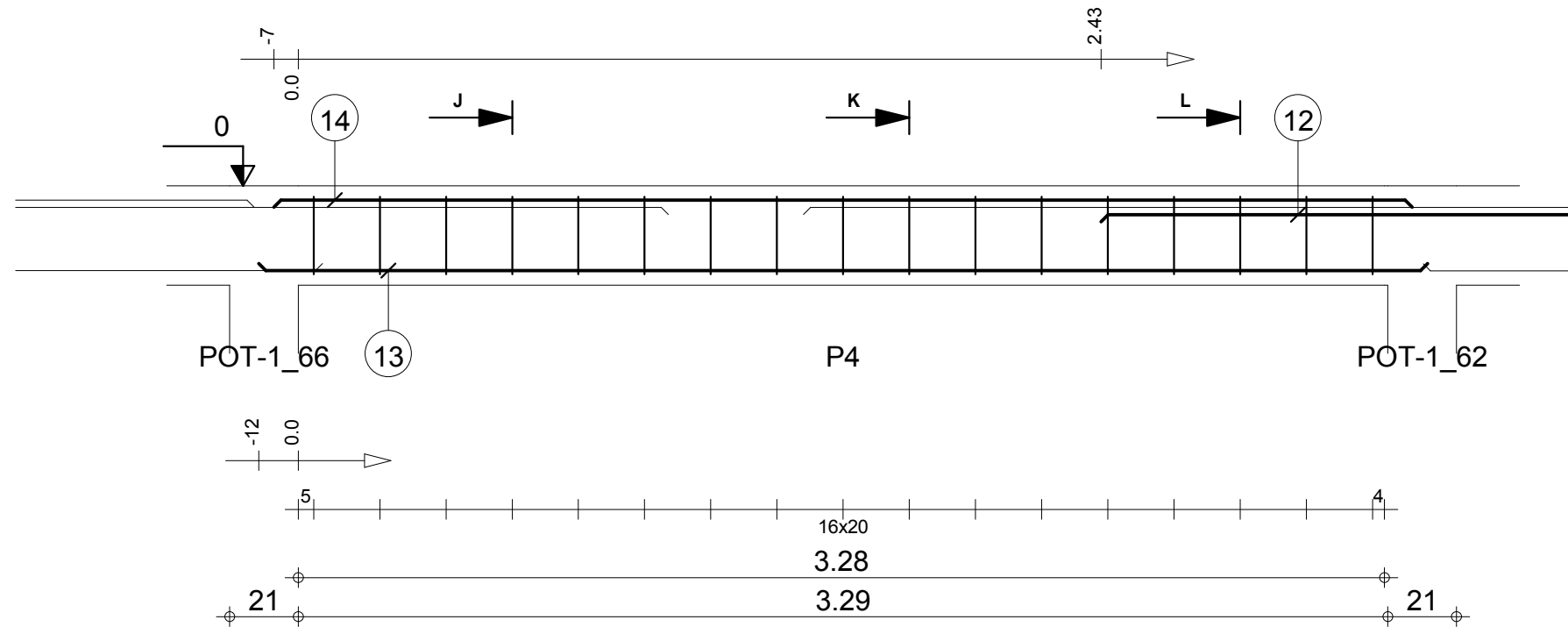
Acier HA 400 = 2.14 kg

Acier HA 400 = 12.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 11 | 17HA 6 | l=88 | 31 | |
| 12 | 2HA 12 | l=1.87 | 00 | |
| 13 | 2HA 12 | l=3.53 | 00 | |
| 14 | 2HA 10 | l=3.44 | 00 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRM1014: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.21 m3

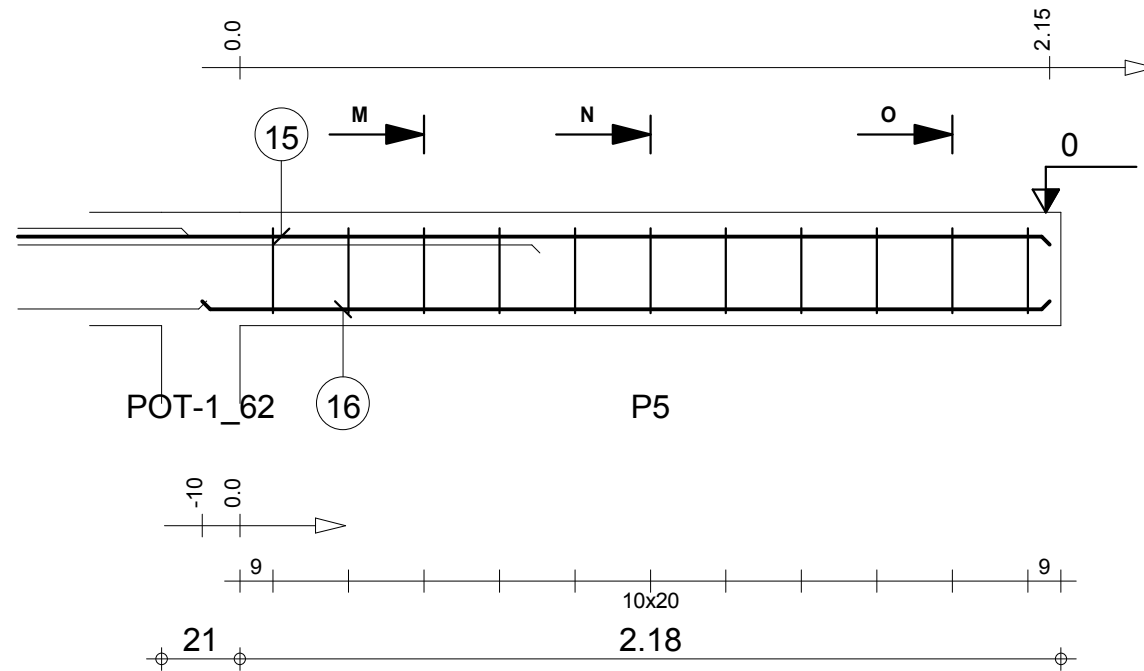
Acier HA 400 = 3.31 kg

Acier HA 400 = 13.8 kg

-1

MINHDU_BAMBOUTOS_POUTRES

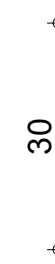
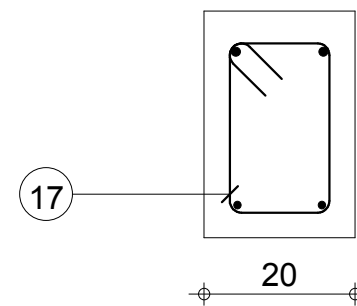
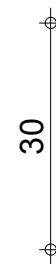
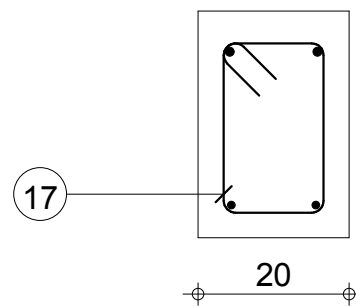
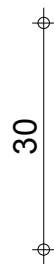
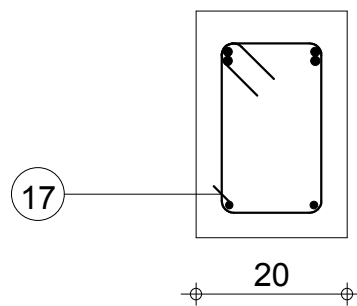
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------|
| 15 | 2HA 12 | l=4.12 | 4.12 |
| 16 | 2HA 10 | l=2.25 | 2.25 |
| 17 | 11HA 6 | l=85 | 14 8 |



M-M

N-N

O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRM1014: P5

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.137 m3

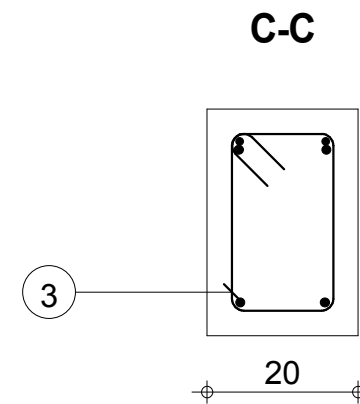
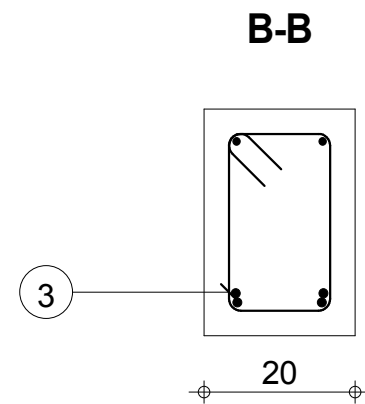
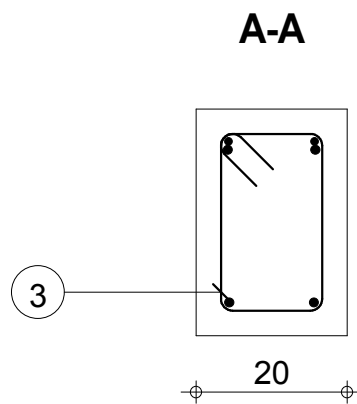
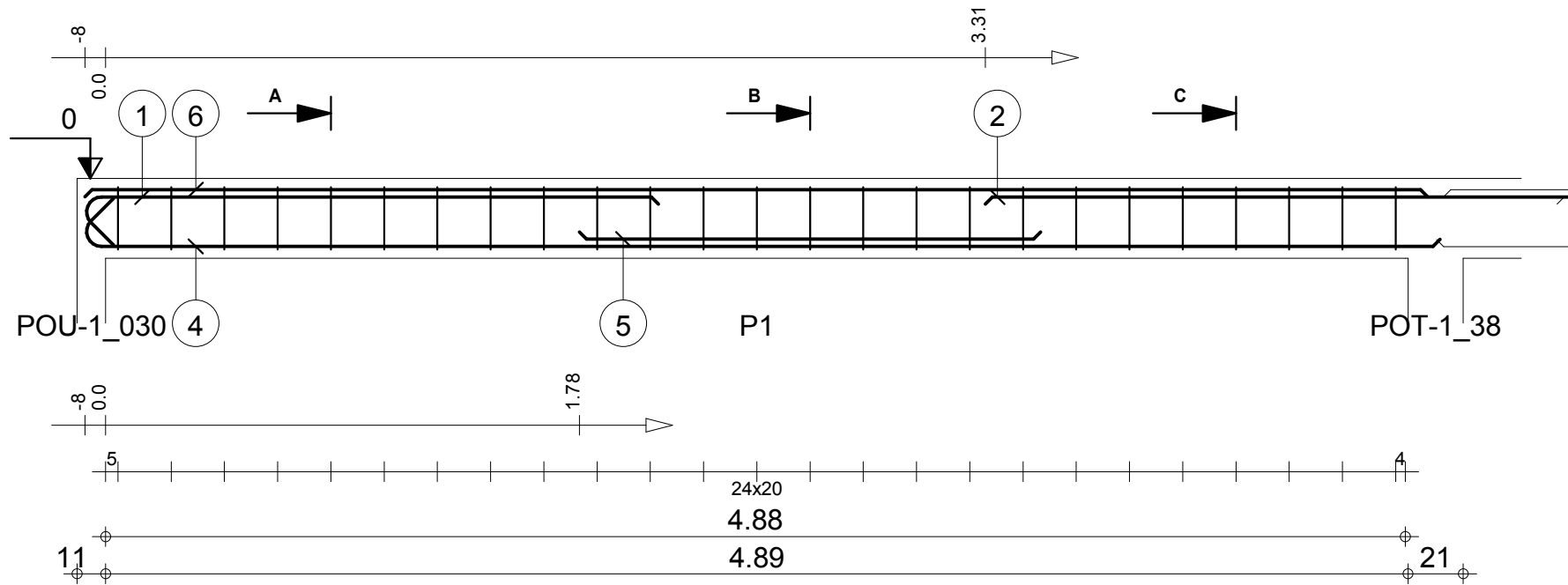
Acier HA 400 = 2.09 kg

Acier HA 400 = 10.1 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=2.34 | 00 |
| ② | 2HA 12 | l=2.87 | 00 |
| ③ | 25HA 6 | l=88 | 31 |
| ④ | 2HA 12 | l=5.28 | 00 |
| ⑤ | 2HA 12 | l=1.73 | 00 |
| ⑥ | 2HA 10 | l=5.04 | 00 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRN.49: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.306 m3

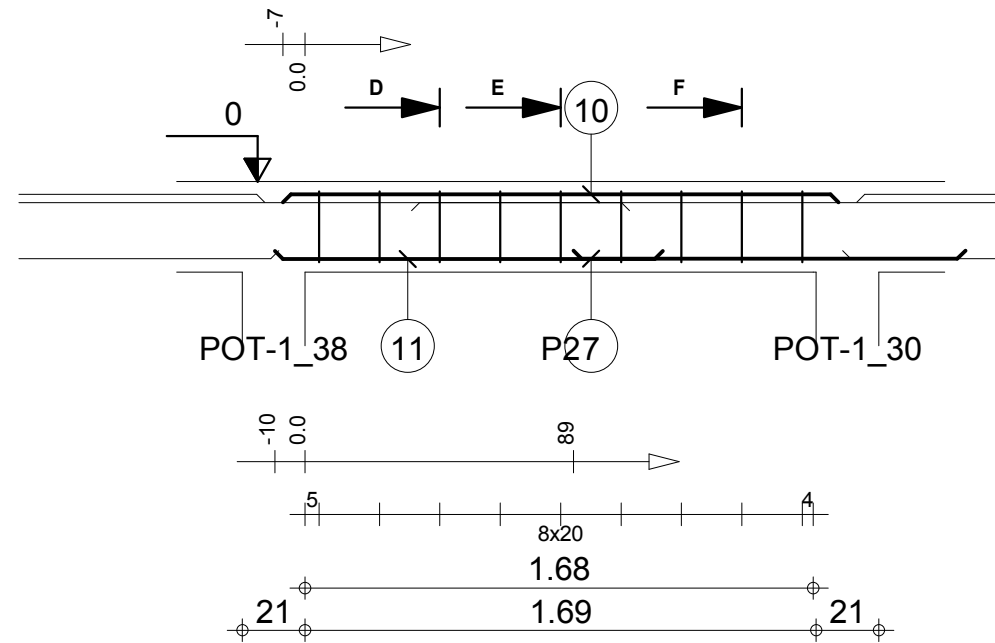
Acier HA 400 = 4.87 kg

Acier HA 400 = 27.9 kg

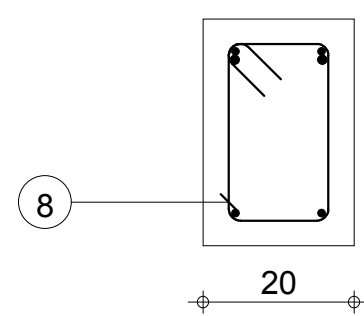
-1

MINHDU_BAMBOUTOS_POUTRES

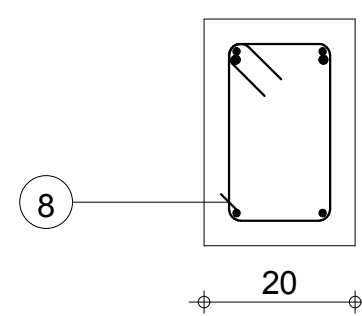
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=1.30 | 00 | 1.30 |
| 8 | 9HA 6 | l=88* | 31 | |
| 10 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 11 | 2HA 10 | l=1.28 | 00 | 1.28 |



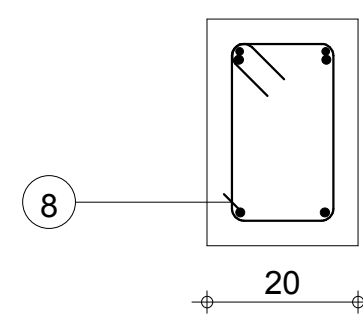
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRN.49: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3


Béton : BETON20 = 0.114 m3

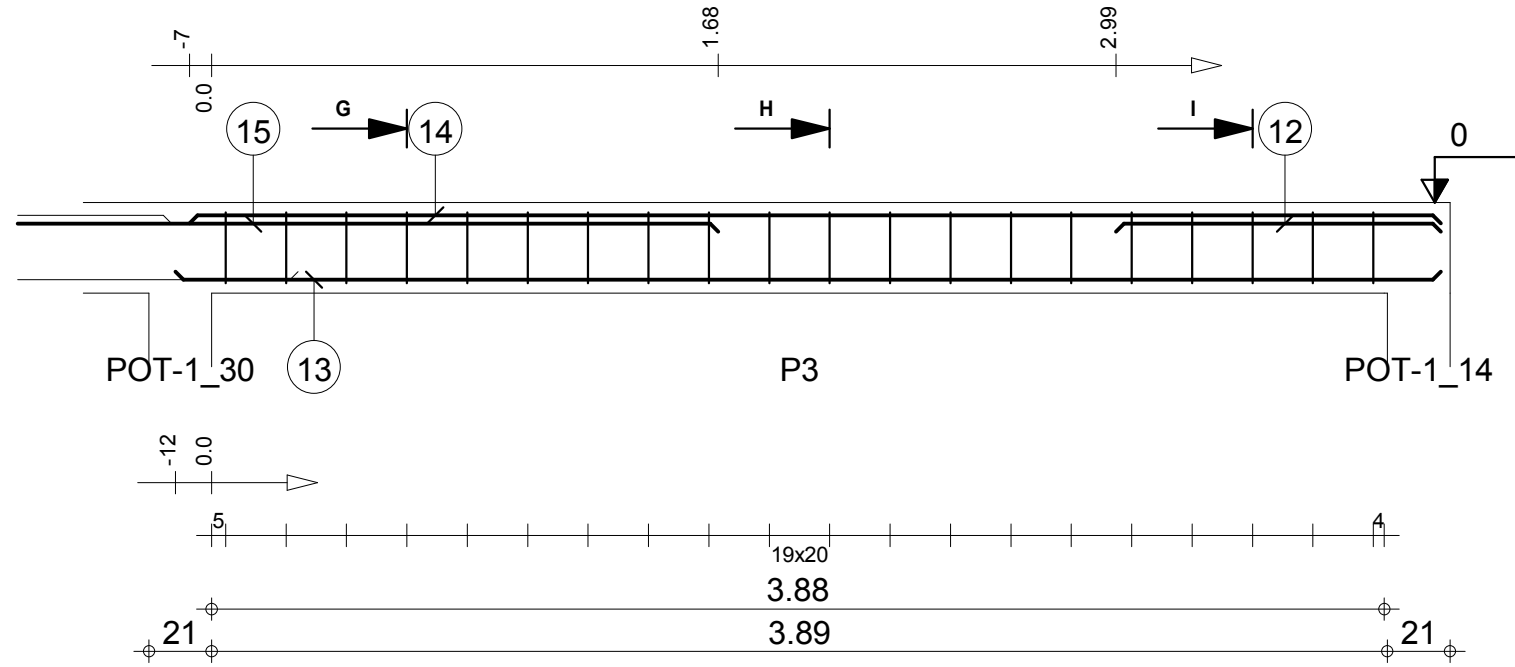
Acier HA 400 = 1.75 kg

Acier HA 400 = 6.16 kg

-1

MINHDU_BAMBOUTOS_POUTRES

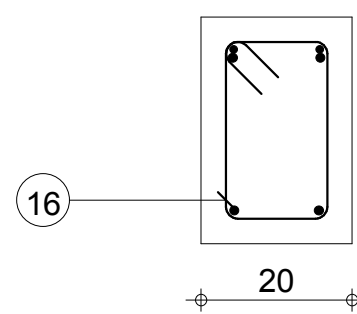
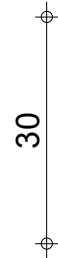
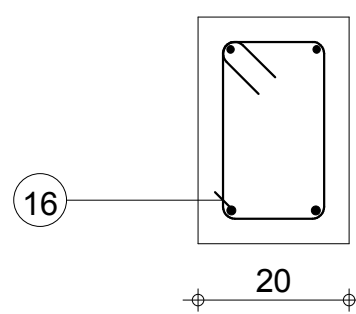
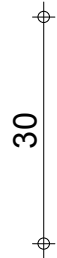
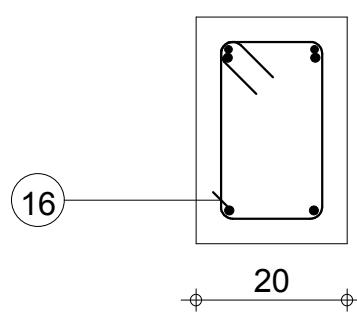
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 12 | 2HA 12 | l=1.08 | 00 | 1.08 |
| 13 | 2HA 12 | l=4.19 | 00 | 4.19 |
| 14 | 2HA 10 | l=4.14 | 00 | 4.14 |
| 15 | 2HA 12 | l=3.23 | 00 | 3.22 |
| 16 | 20HA 6 | l=88 | 31 |  |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRN.49: P3

Section 20x30

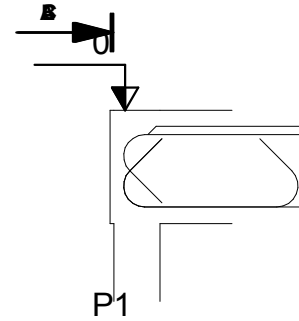
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.252 m3

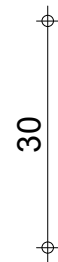
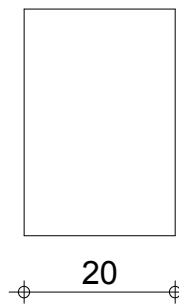
Acier HA 400 = 3.9 kg

Acier HA 400 = 20.2 kg

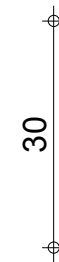
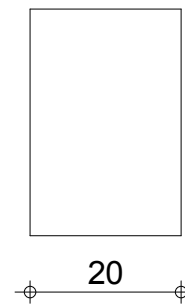


1_12

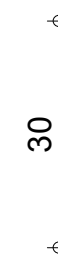
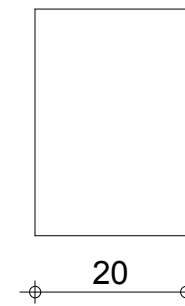
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRO.14: P1

Section 20x30

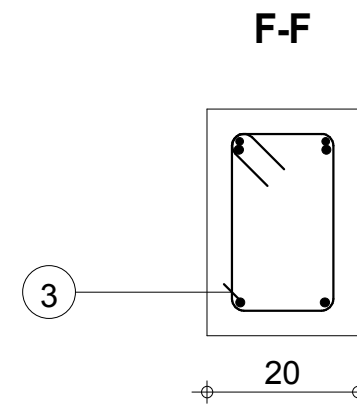
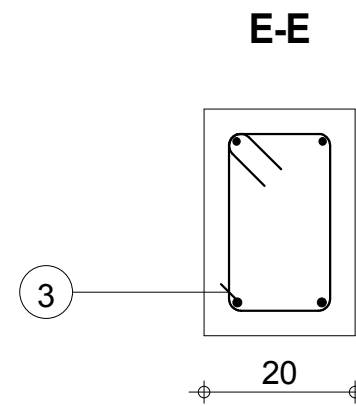
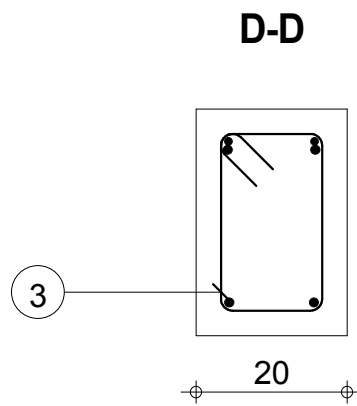
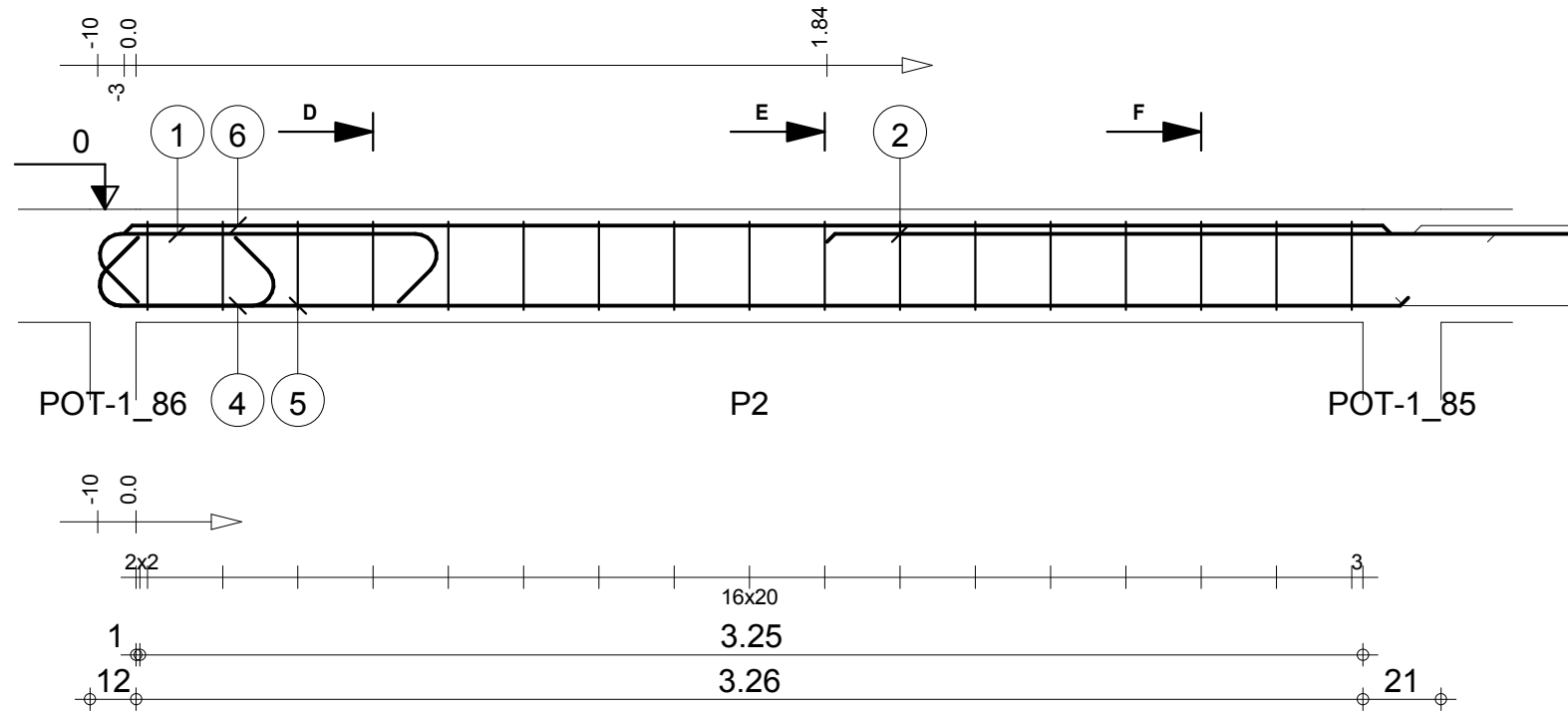
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00428 m3

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.29 | 00 | |
| ② | 2HA 12 | l=2.48 | 00 | |
| ③ | 17HA 6 | l=88 | 31 | |
| ④ | 2HA 12 | l=85 | 00 | |
| ⑤ | 2HA 12 | l=3.67 | 00 | |
| ⑥ | 2HA 10 | l=3.37 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

LGRO.14: P2
Section 20x30


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

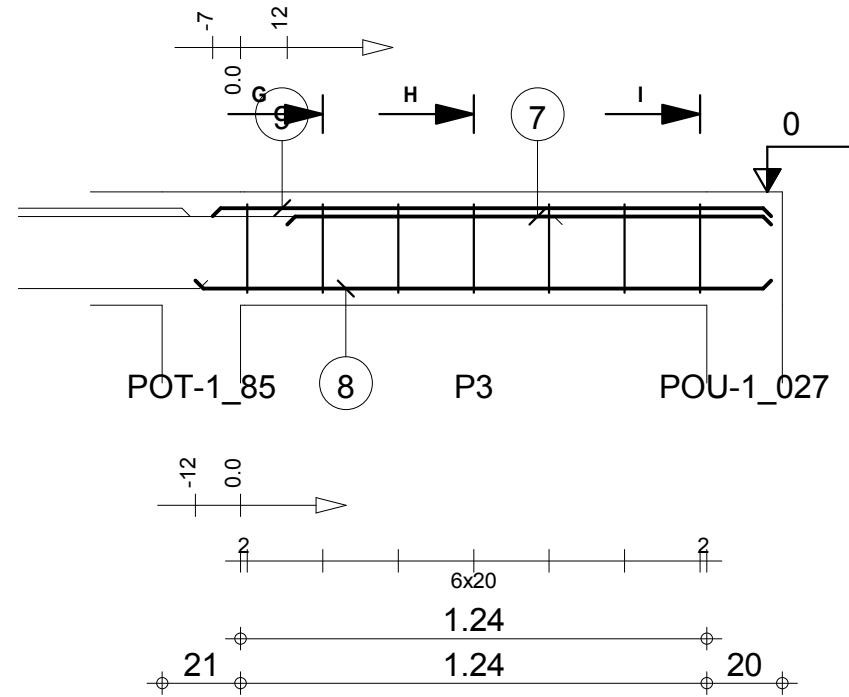
Page 2/3

Béton : BETON20 = 0.206 m3
Acier HA 400 = 3.31 kg
Acier HA 400 = 18.9 kg

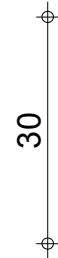
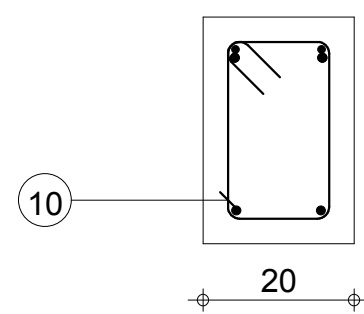
-1

MINHDU_BAMBOUTOS_POUTRES

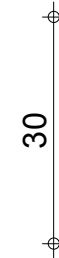
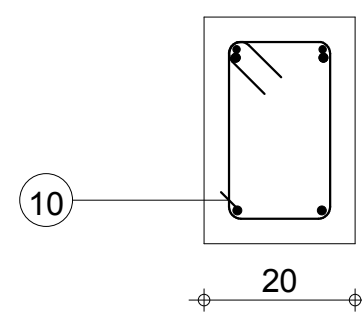
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 7 | 2HA 12 | l=1.28 | 00 | 1.28 |
| 8 | 2HA 12 | l=1.53 | 00 | 1.53 |
| 9 | 2HA 10 | l=1.48 | 00 | 1.48 |
| 10 | 7HA 6 | l=88 | 31 |  |



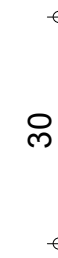
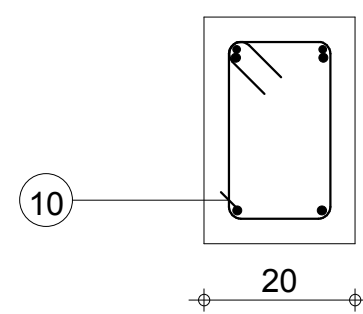
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRO.14: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.0923 m3

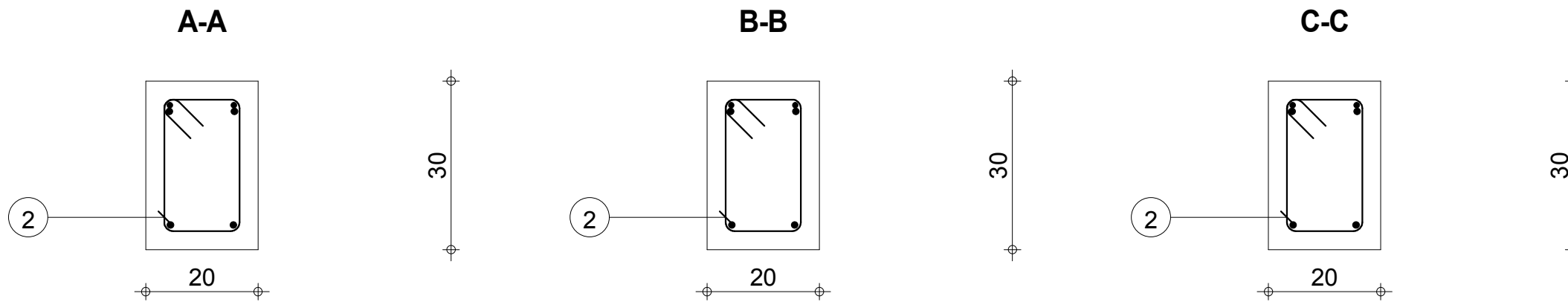
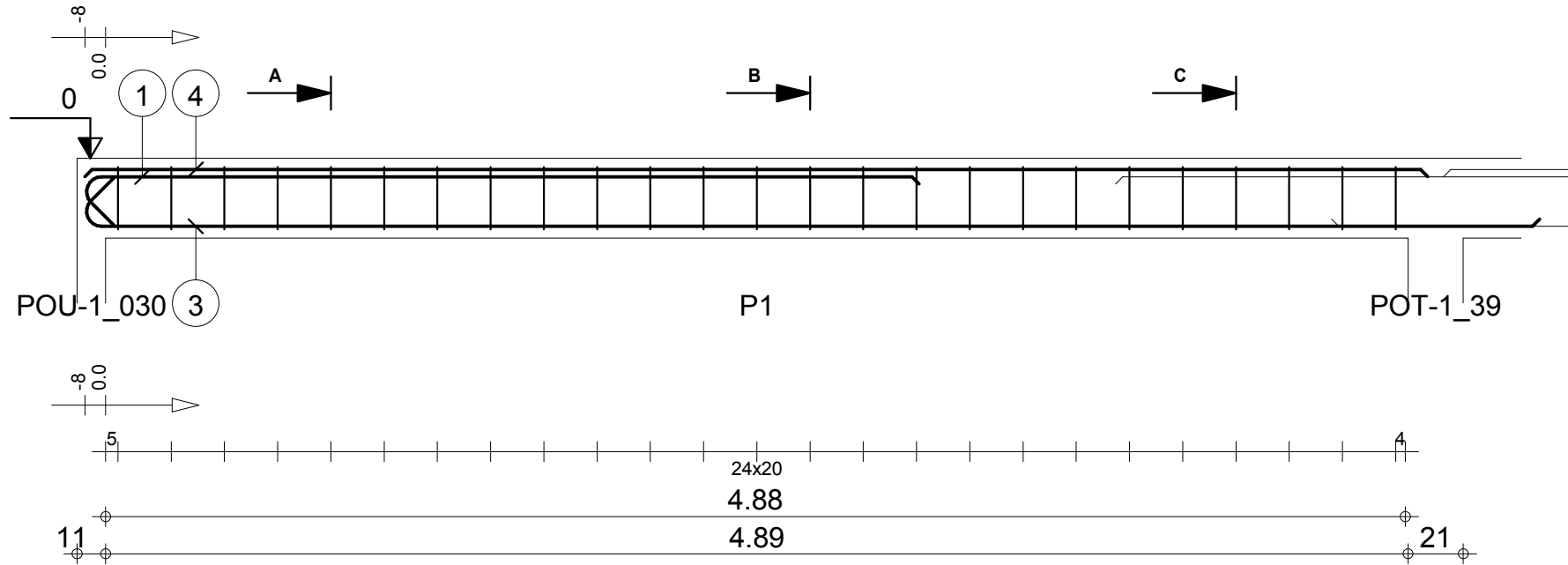
Acier HA 400 = 1.36 kg

Acier HA 400 = 6.81 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=3.32 | 00 | |
| ② | 25HA 6 | l=88 | 31 | |
| ③ | 2HA 12 | l=5.65 | 00 | |
| ④ | 2HA 10 | l=5.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRP.19: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.306 m3

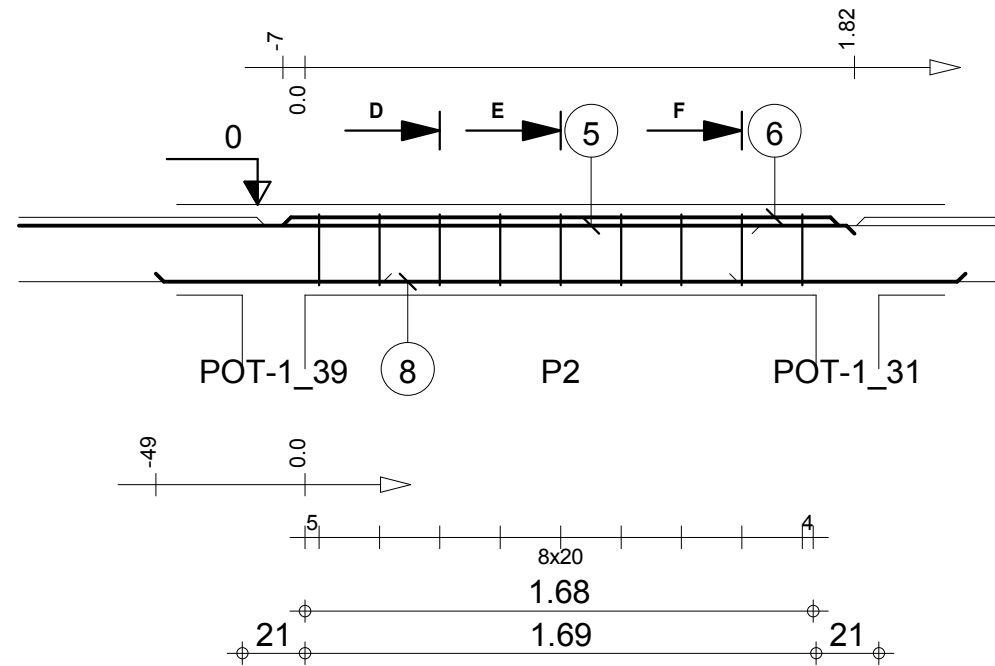
Acier HA 400 = 4.87 kg

Acier HA 400 = 22.2 kg

-1

MINHDU_BAMBOUTOS_POUTRES

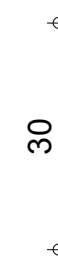
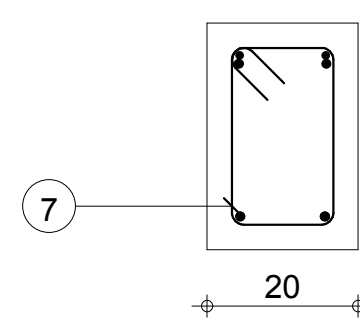
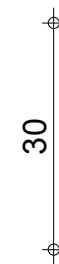
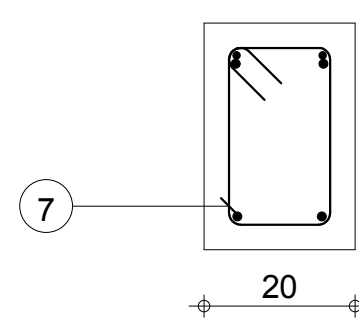
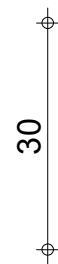
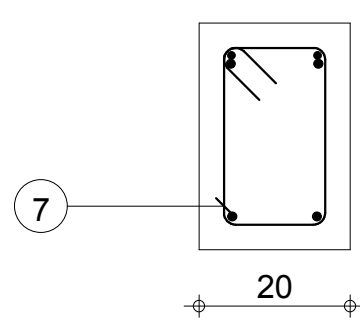
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 5 | 2HA 12 | l=3.13 | 00 | 3.13 |
| 6 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 7 | 9HA 6 | l=88 | 31 |  |
| 8 | 2HA 12 | l=2.68 | 00 | 2.68 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRP.19: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.114 m3

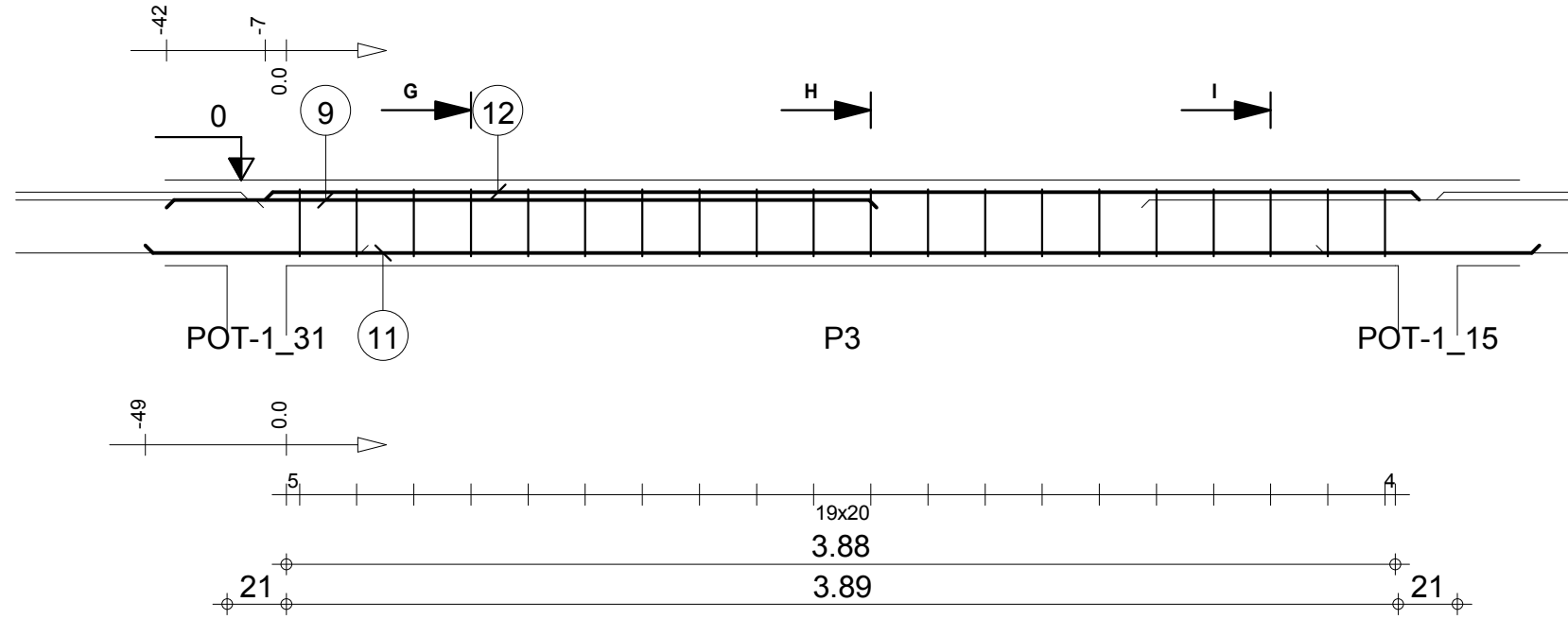
Acier HA 400 = 1.75 kg

Acier HA 400 = 12.6 kg

-1

MINHDU_BAMBOUTOS_POUTRES

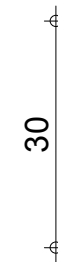
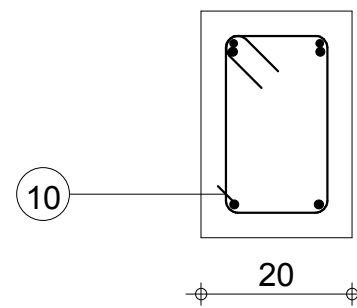
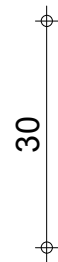
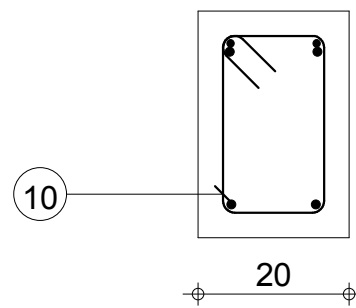
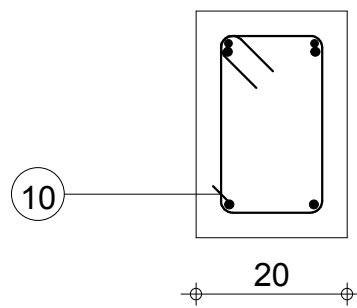
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 9 | 2HA 12 | l=2.49 | 00 | 2.49 |
| 10 | 20HA 6 | l=88 | 31 | |
| 11 | 2HA 12 | l=4.88 | 00 | 4.88 |
| 12 | 2HA 10 | l=4.04 | 00 | 4.04 |



G-G

H-H

I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRP.19: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.246 m3

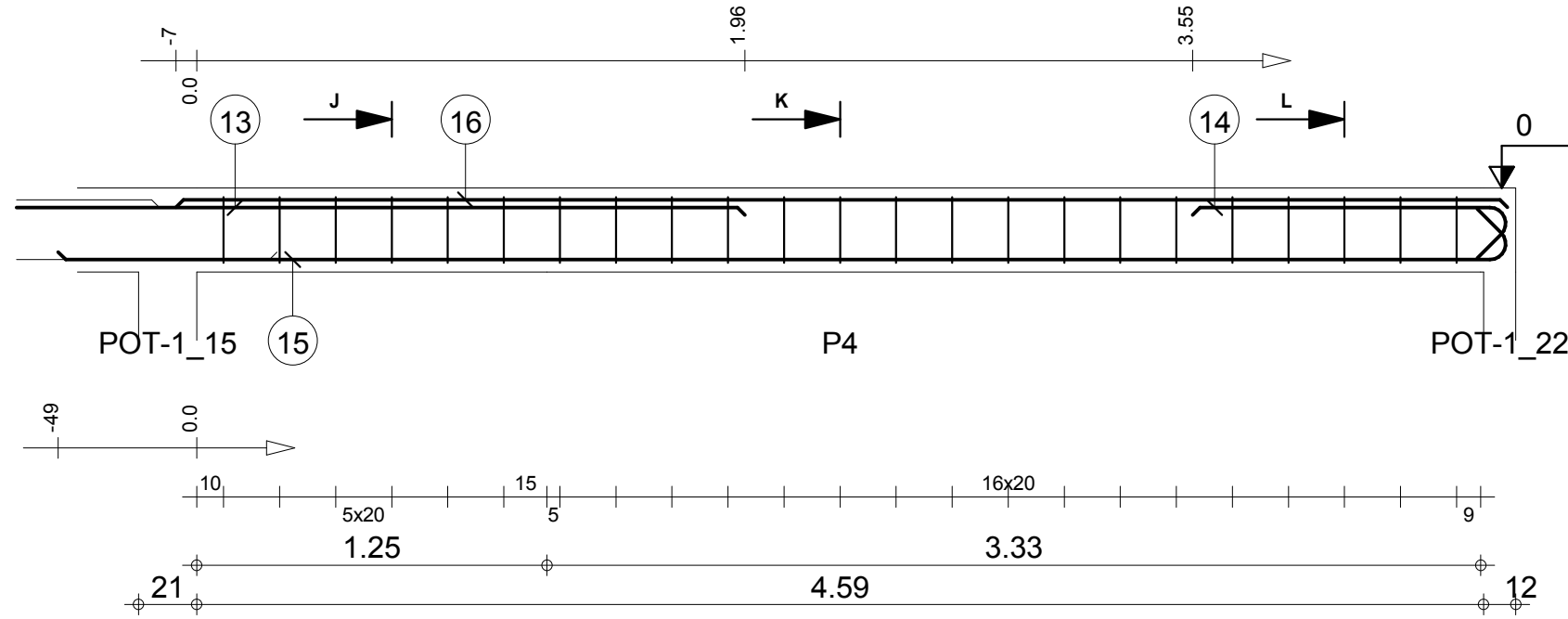
Acier HA 400 = 3.9 kg

Acier HA 400 = 18.1 kg

-1

MINHDU_BAMBOUTOS_POUTRES

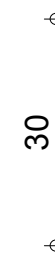
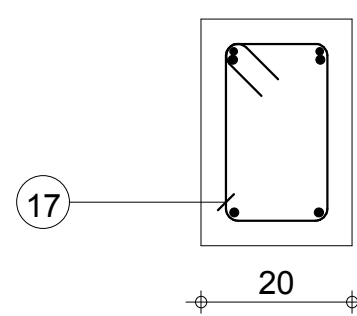
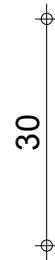
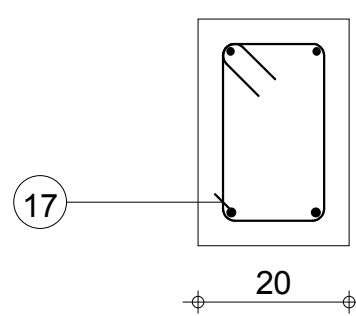
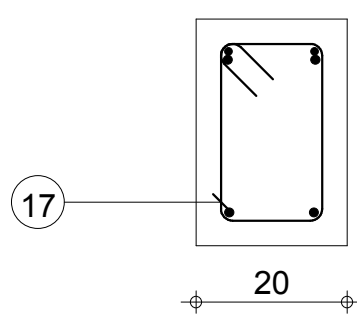
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 13 | 2HA 12 | l=3.06 | 00 |
| 14 | 2HA 12 | l=1.31 | 00 |
| 15 | 2HA 12 | l=5.36 | 00 |
| 16 | 2HA 10 | l=4.75 | 00 |
| 17 | 23HA 6 | l=88 | 31 |



J-J

K-K

L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRP.19: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.289 m3

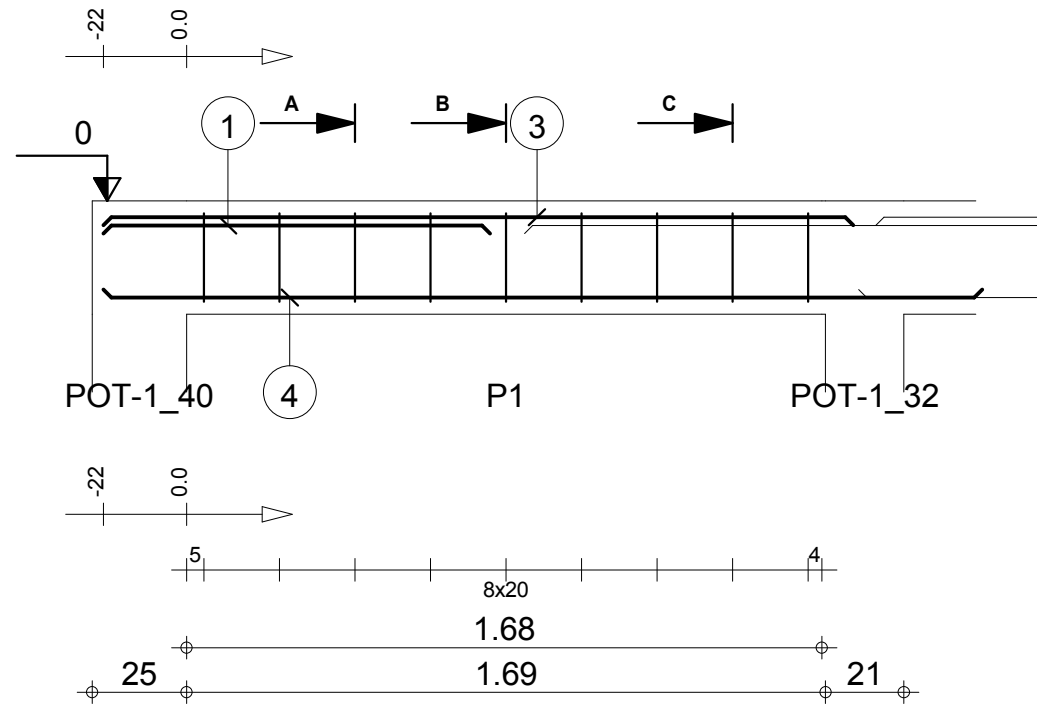
Acier HA 400 = 4.48 kg

Acier HA 400 = 23.1 kg

-1

MINHDU_BAMBOUTOS_POUTRES

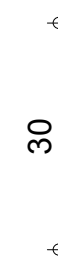
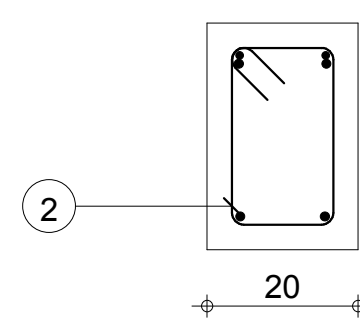
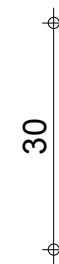
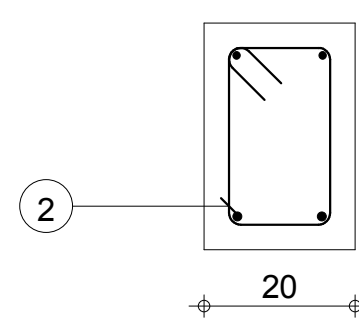
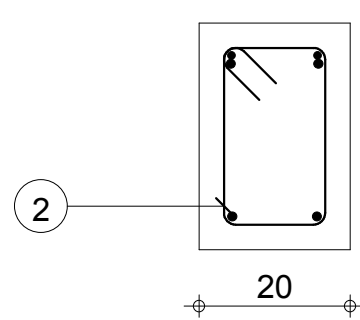
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.02 | 00 | 1.02 |
| ② | 9HA 6 | l=88 | 31 | |
| ③ | 2HA 10 | l=1.99 | 00 | 1.99 |
| ④ | 2HA 12 | l=2.33 | 00 | 2.33 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRQ.18: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.123 m3

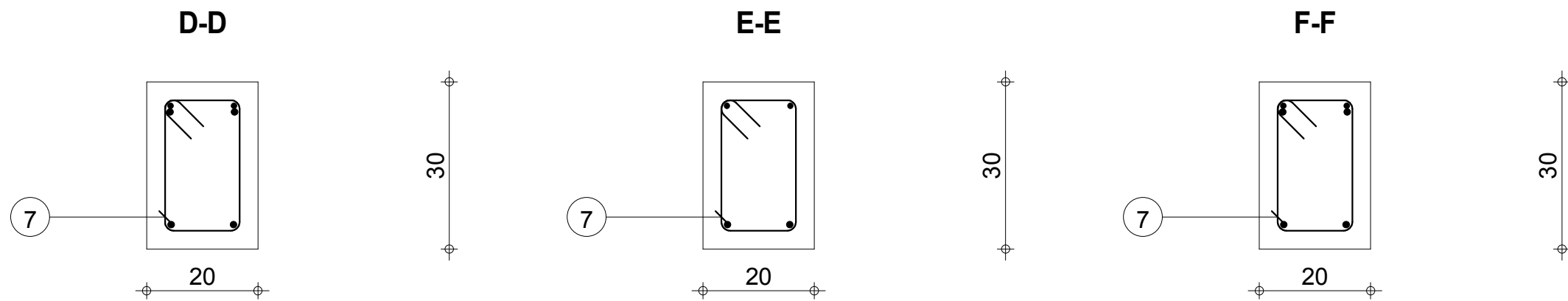
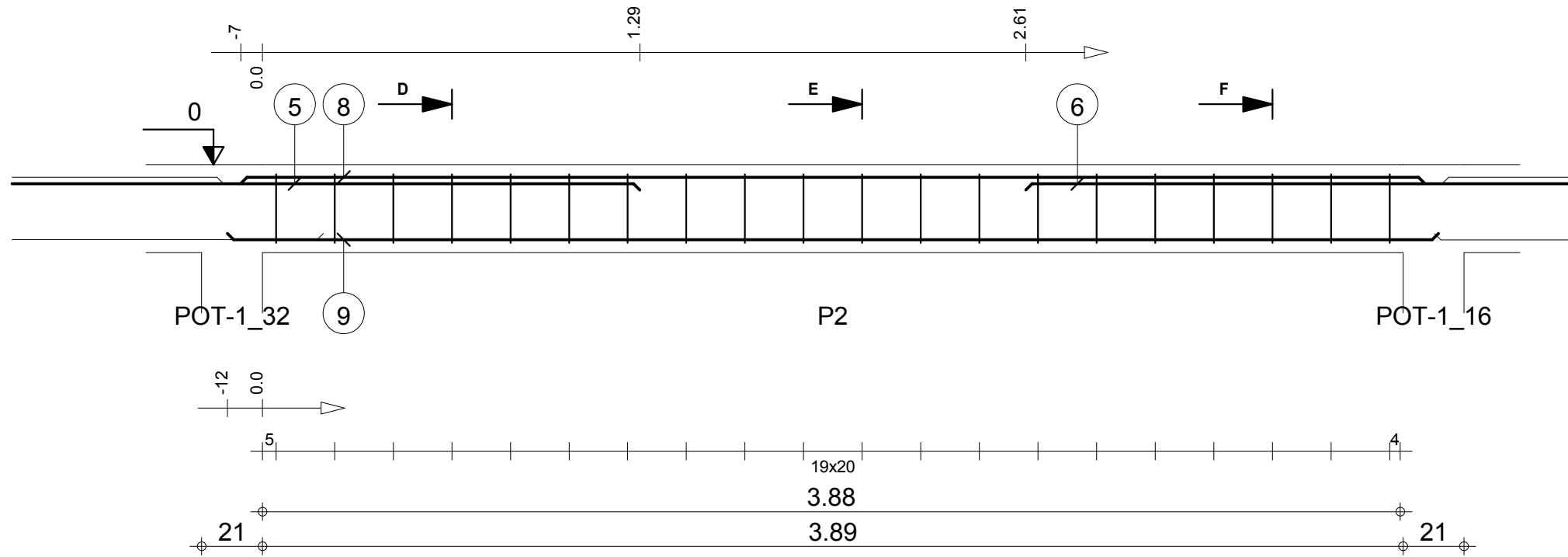
Acier HA 400 = 1.75 kg

Acier HA 400 = 8.4 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 5 | 2HA 12 | l=2.29 | 00 2.29 |
| 6 | 2HA 12 | l=2.33 | 00 2.33 |
| 7 | 20HA 6 | l=88 | 31  |
| 8 | 2HA 10 | l=4.04 | 00 4.04 |
| 9 | 2HA 12 | l=4.13 | 00 4.13 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRQ.18: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.246 m³

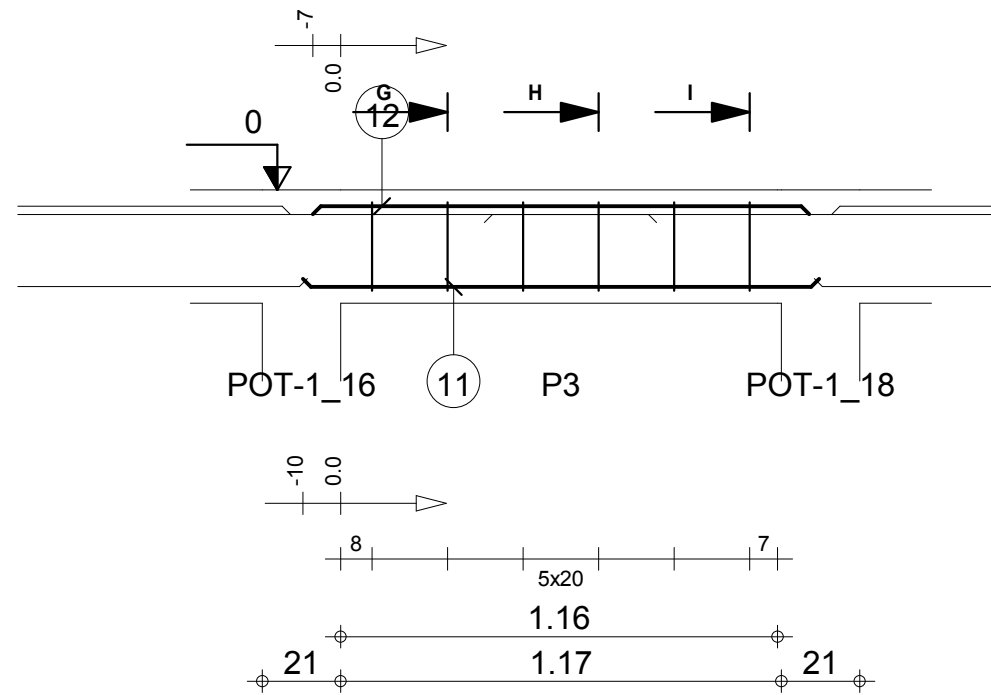
Acier HA 400 = 3.9 kg

Acier HA 400 = 20.5 kg

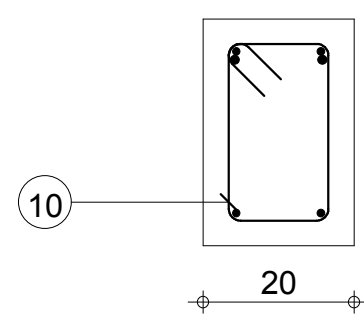
-1

MINHDU_BAMBOUTOS_POUTRES

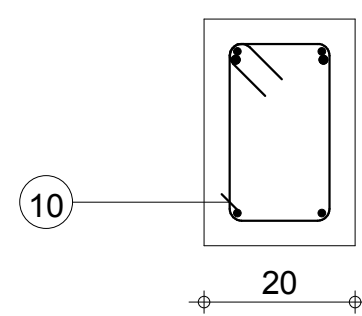
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 10 | 6HA 6 | l=87 | 31 | |
| 11 | 2HA 10 | l=1.37 | 00 | |
| 12 | 2HA 10 | l=1.31 | 00 | |



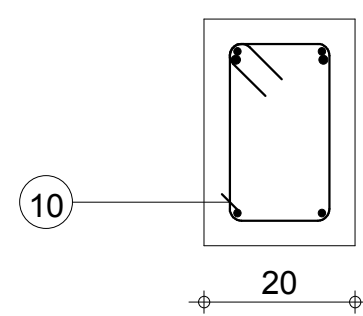
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRQ.18: P3

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.0825 m3

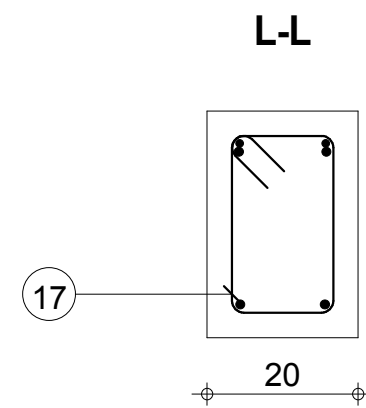
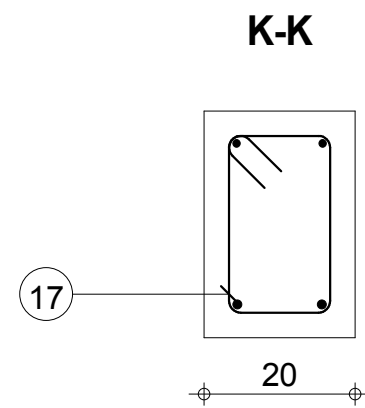
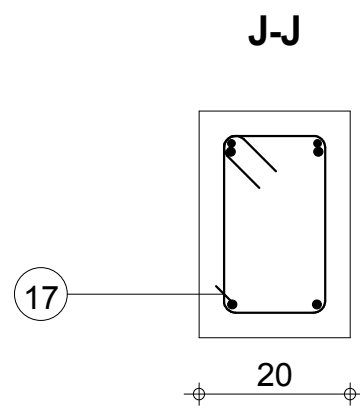
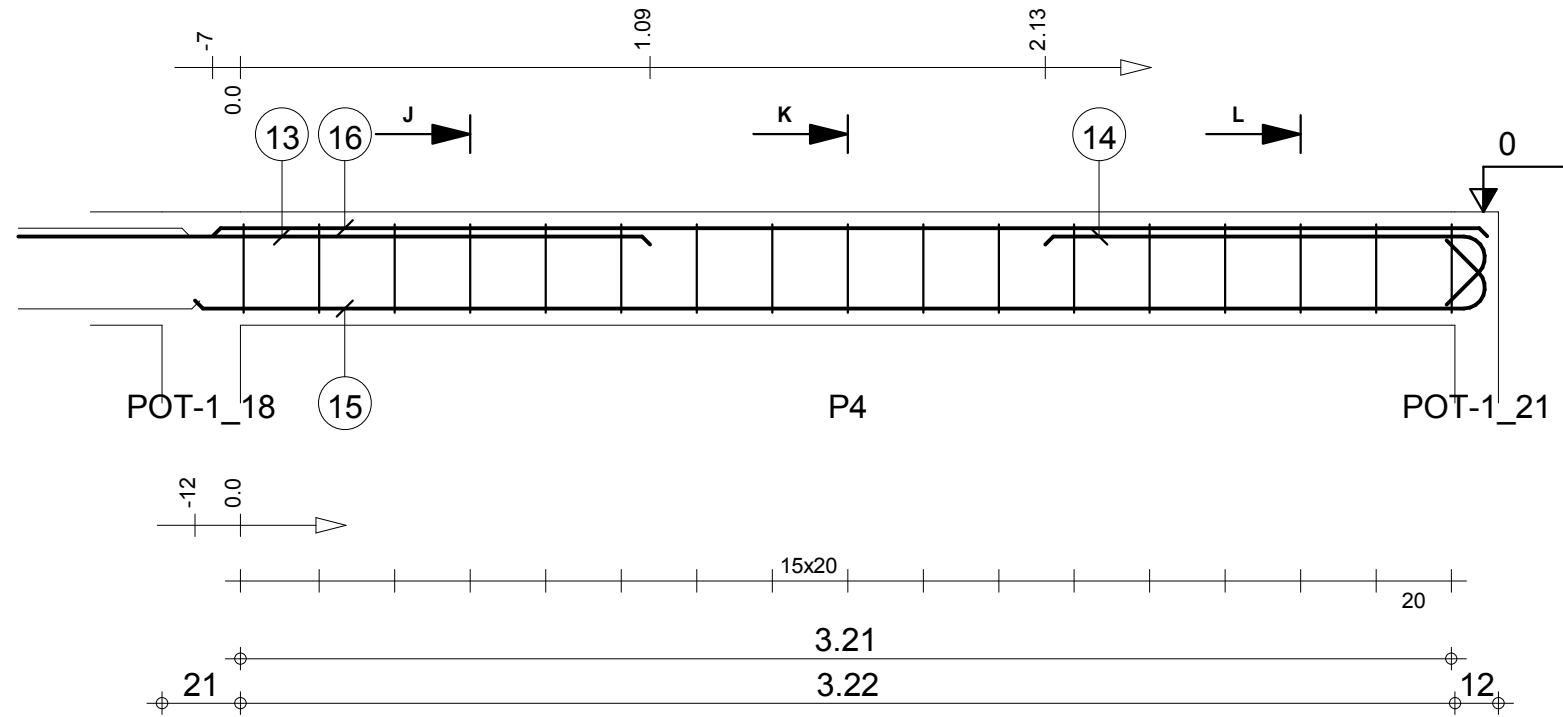
Acier HA 400 = 1.16 kg

Acier HA 400 = 3.31 kg

-1

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=2.08 | 00 | 2.08 |
| 14 | 2HA 12 | l=1.36 | 00 | 1.17 |
| 15 | 2HA 12 | l=3.61 | 00 | 3.42 |
| 16 | 2HA 10 | l=3.38 | 00 | 3.38 |
| 17 | 17HA 6 | l=88 | 31 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

LGRQ.18: P4

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.206 m3

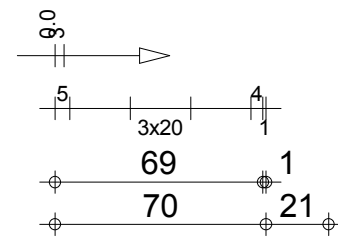
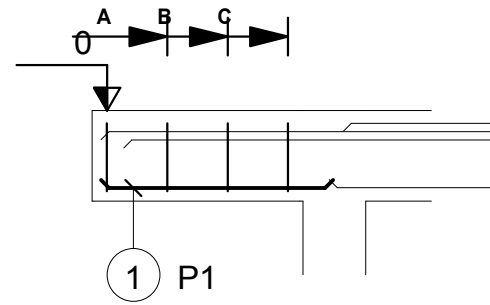
Acier HA 400 = 3.31 kg

Acier HA 400 = 16.7 kg

-1

MINHDU_BAMBOUTOS_POUTRES

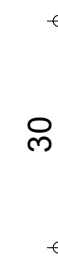
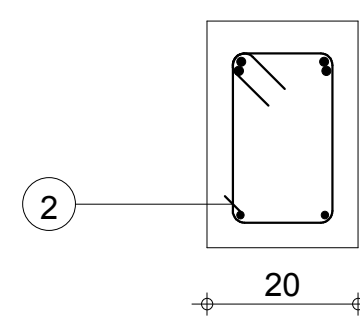
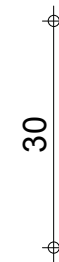
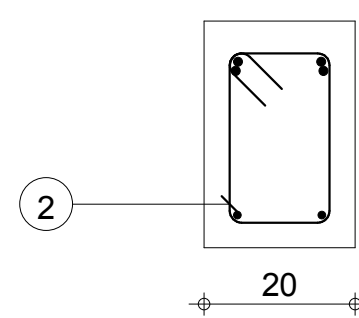
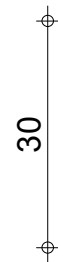
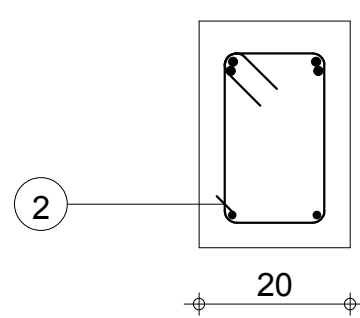
| Pos. | Armature | Code | Forme |
|------|----------|------|---------------|
| ① | 2HA 10 | I=77 | 00 77 |
| ② | 4HA 6 | I=85 | 31 14 8 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.0481 m3

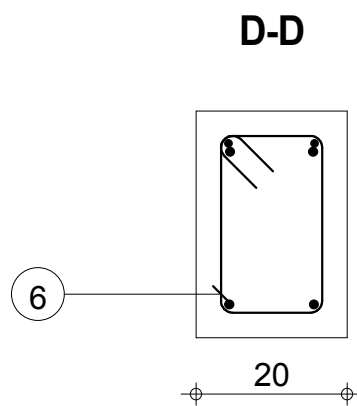
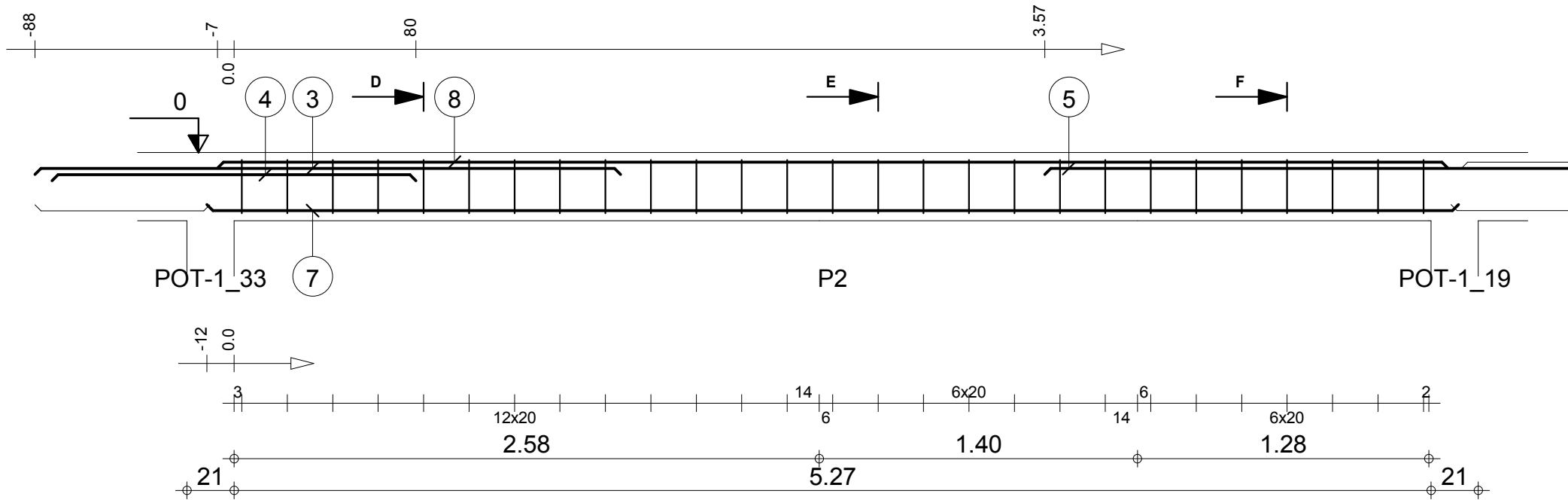
Acier HA 400 = 0.758 kg

Acier HA 400 = 0.948 kg

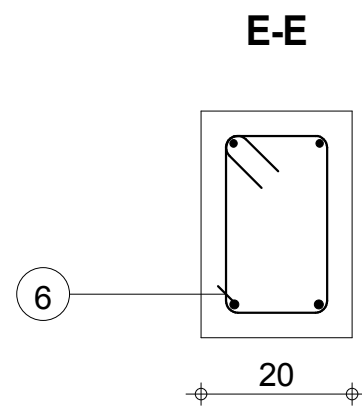
-1

MINHDU_BAMBOUTOS_POUTRES

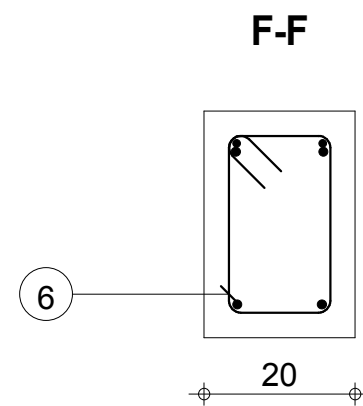
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ③ | 2HA 12 | l=2.58 | 00 | 2.58 |
| ④ | 2HA 12 | l=1.60 | 00 | 1.60 |
| ⑤ | 2HA 12 | l=3.31 | 00 | 3.31 |
| ⑥ | 3*9HA 6 | l=88 | 31 | |
| ⑦ | 2HA 12 | l=5.51 | 00 | 5.51 |
| ⑧ | 2HA 10 | l=5.42 | 00 | 5.42 |



30



30



30

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

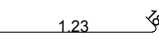
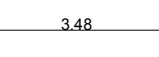
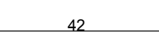
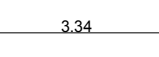
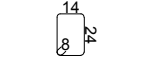
Béton : BETON20 = 0.329 m3

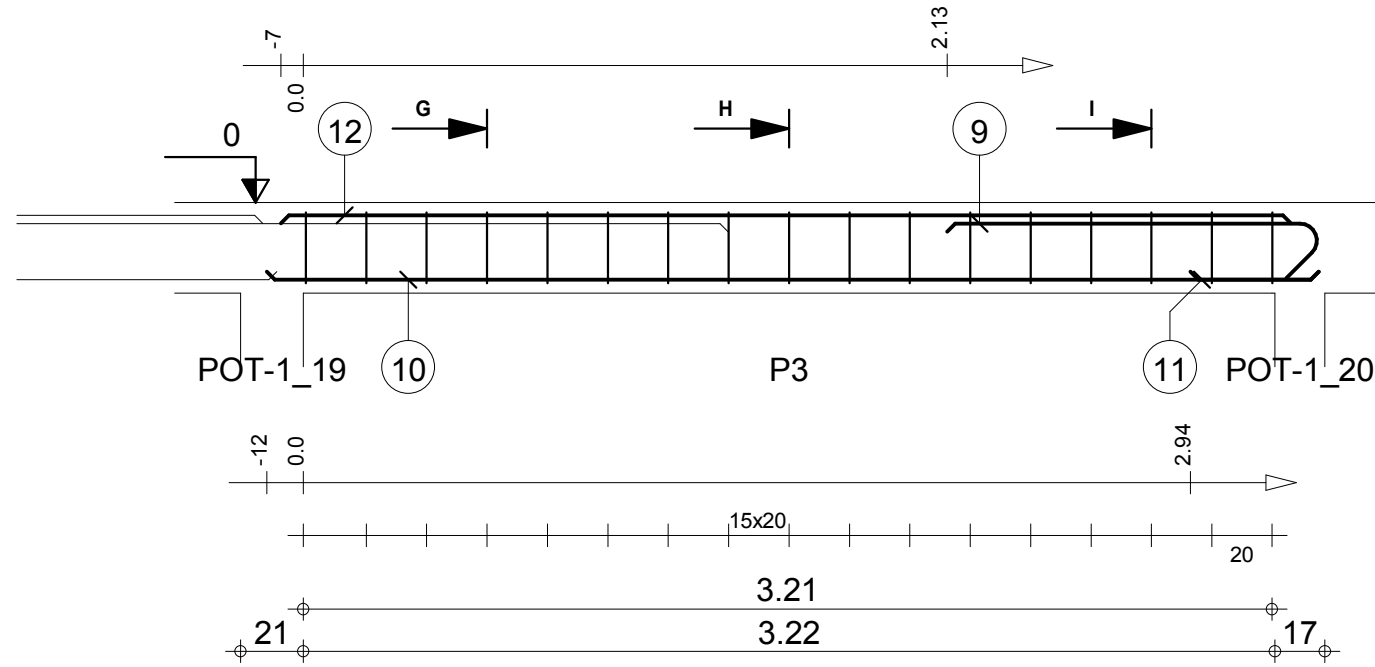
Acier HA 400 = 5.26 kg

Acier HA 400 = 29.8 kg

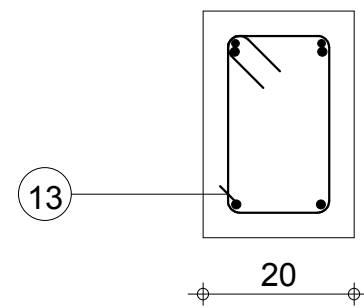
-1

MINHDU_BAMBOUTOS_POUTRES

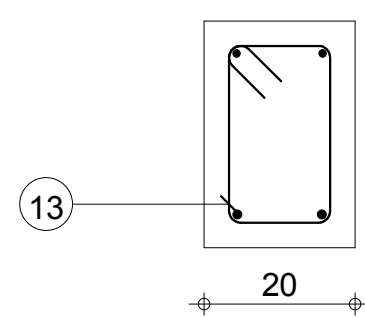
| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 9 | 2HA 12 | l=1.42 | 00  |
| 10 | 2HA 12 | l=3.48 | 00  |
| 11 | 2HA 12 | l=42 | 00  |
| 12 | 2HA 10 | l=3.34 | 00  |
| 13 | 17HA 6 | l=88 | 31  |



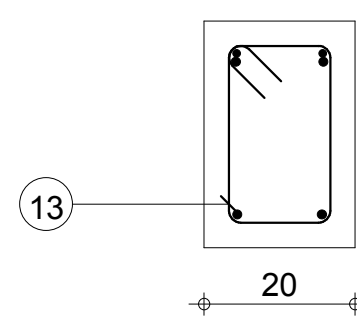
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P3

Section 20x30

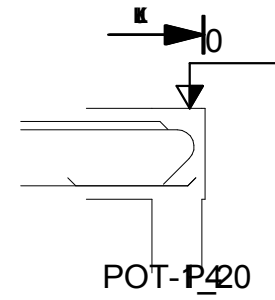
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.204 m3

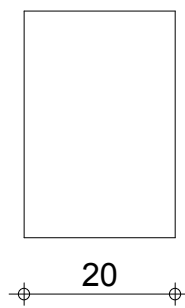
Acier HA 400 = 3.31 kg

Acier HA 400 = 13.6 kg



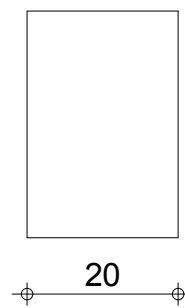
17

J-J



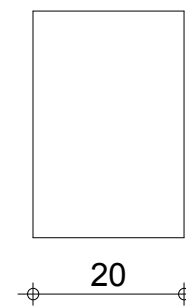
30

K-K



30

L-L



30

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P4

Section 20x30

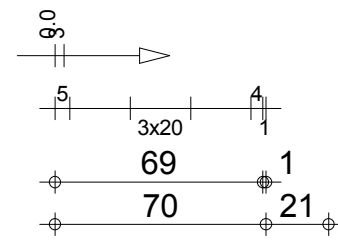
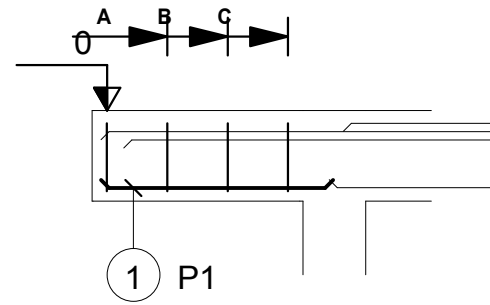
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

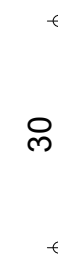
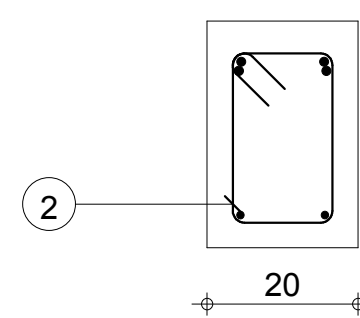
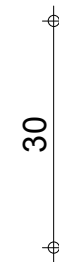
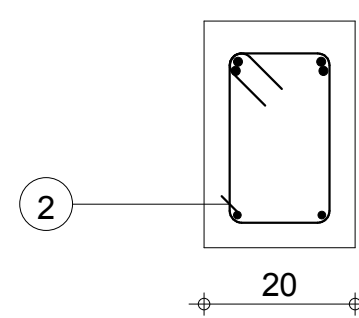
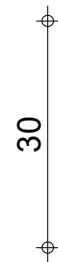
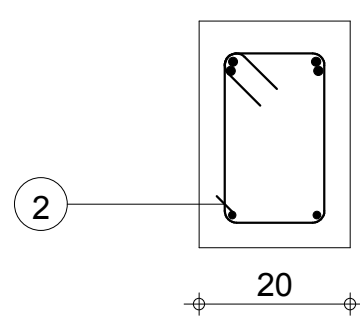
| Pos. | Armature | Code | Forme |
|------|----------|------|---------------|
| ① | 2HA 10 | I=77 | 00 77 |
| ② | 4HA 6 | I=85 | 31 14 8 |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.0481 m3

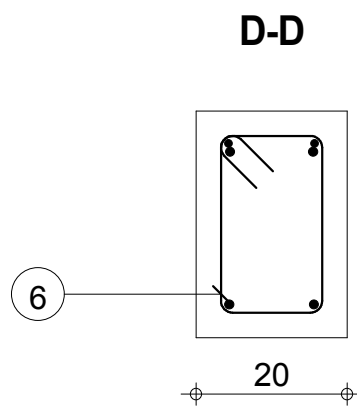
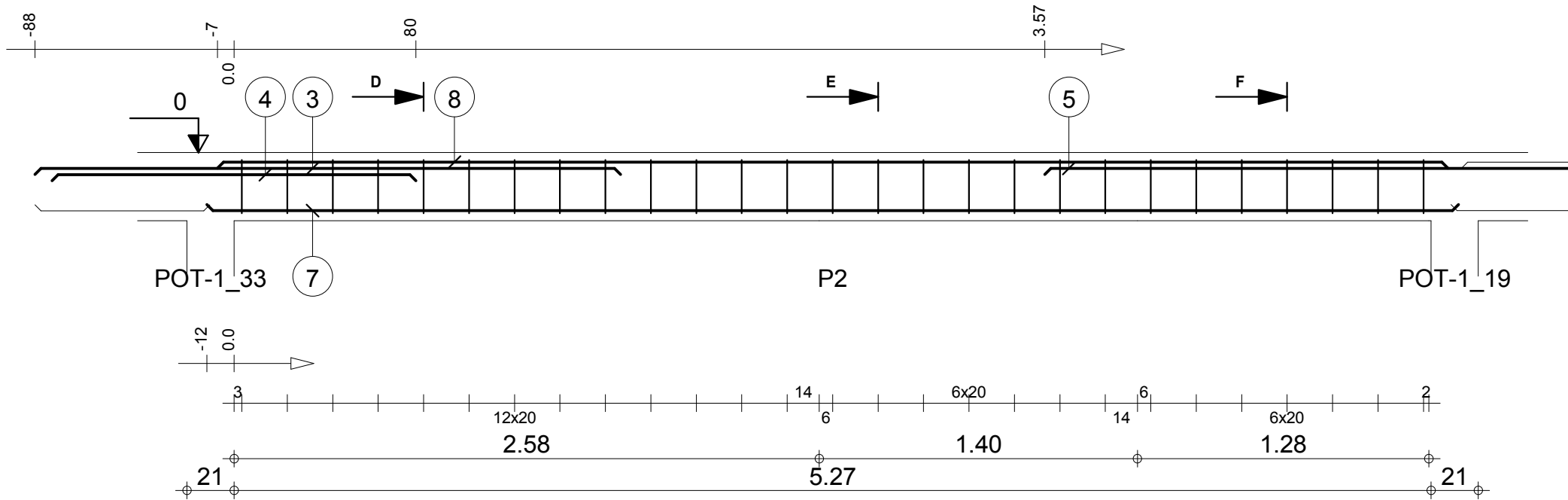
Acier HA 400 = 0.758 kg

Acier HA 400 = 0.948 kg

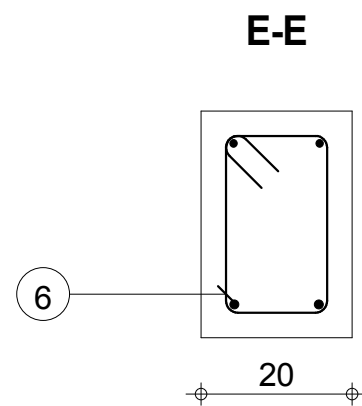
-1

MINHDU_BAMBOUTOS_POUTRES

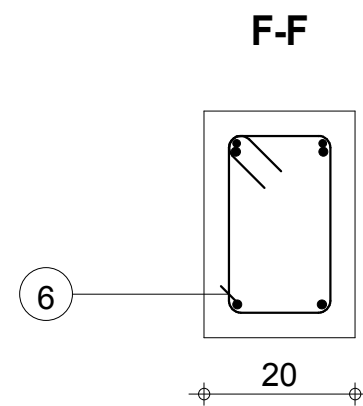
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ③ | 2HA 12 | l=2.58 | 00 | 2.58 |
| ④ | 2HA 12 | l=1.60 | 00 | 1.60 |
| ⑤ | 2HA 12 | l=3.31 | 00 | 3.31 |
| ⑥ | 3*9HA 6 | l=88 | 31 | |
| ⑦ | 2HA 12 | l=5.51 | 00 | 5.51 |
| ⑧ | 2HA 10 | l=5.42 | 00 | 5.42 |



30



30



30

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

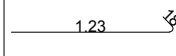
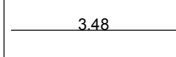
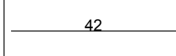
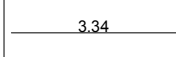
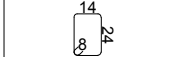
Béton : BETON20 = 0.329 m3

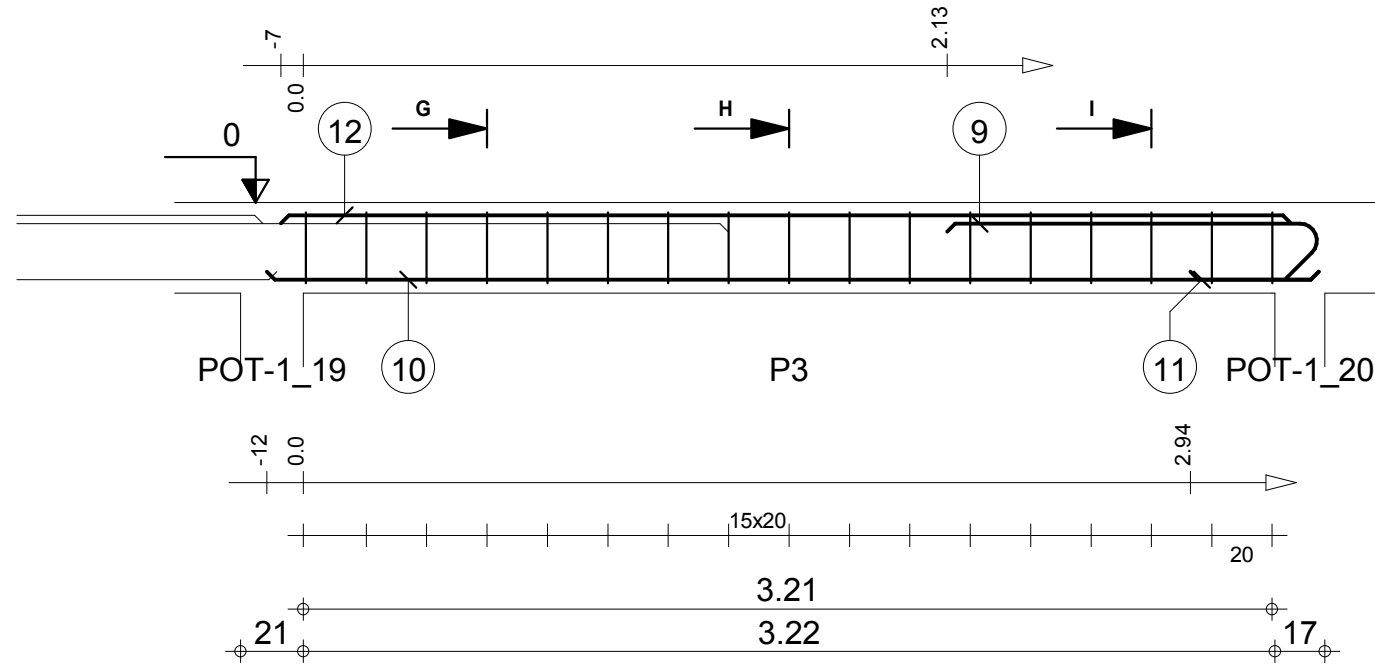
Acier HA 400 = 5.26 kg

Acier HA 400 = 29.8 kg

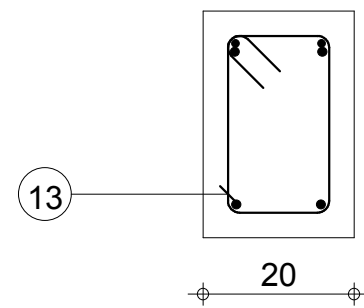
-1

MINHDU_BAMBOUTOS_POUTRES

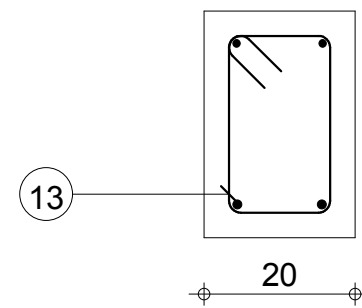
| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 9 | 2HA 12 | l=1.42 | 00  |
| 10 | 2HA 12 | l=3.48 | 00  |
| 11 | 2HA 12 | l=42 | 00  |
| 12 | 2HA 10 | l=3.34 | 00  |
| 13 | 17HA 6 | l=88 | 31  |



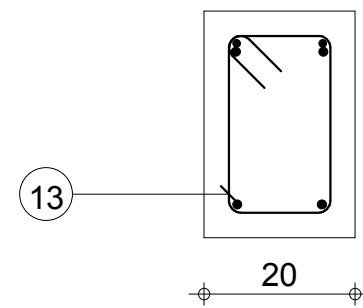
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P3

Section 20x30

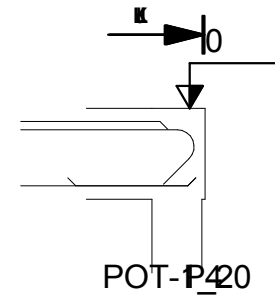
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.204 m3

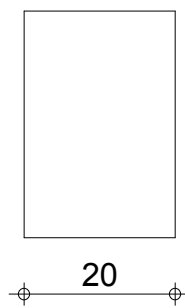
Acier HA 400 = 3.31 kg

Acier HA 400 = 13.6 kg



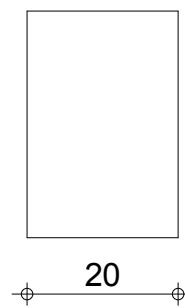
17

J-J



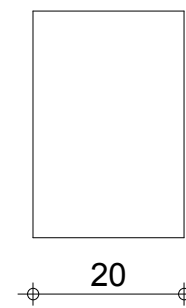
30

K-K



30

L-L



30

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

LGRR.116: P4


Section 20x30

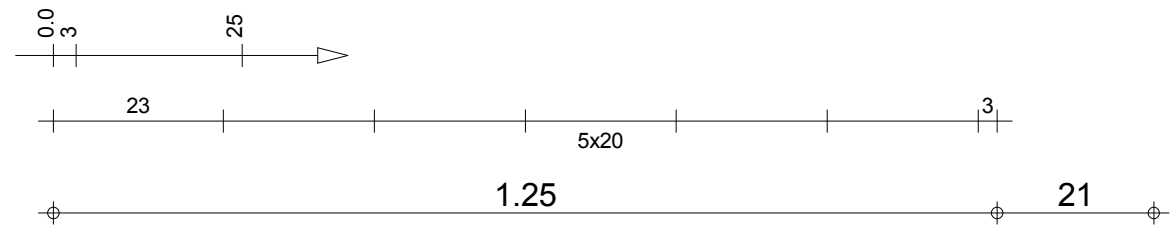
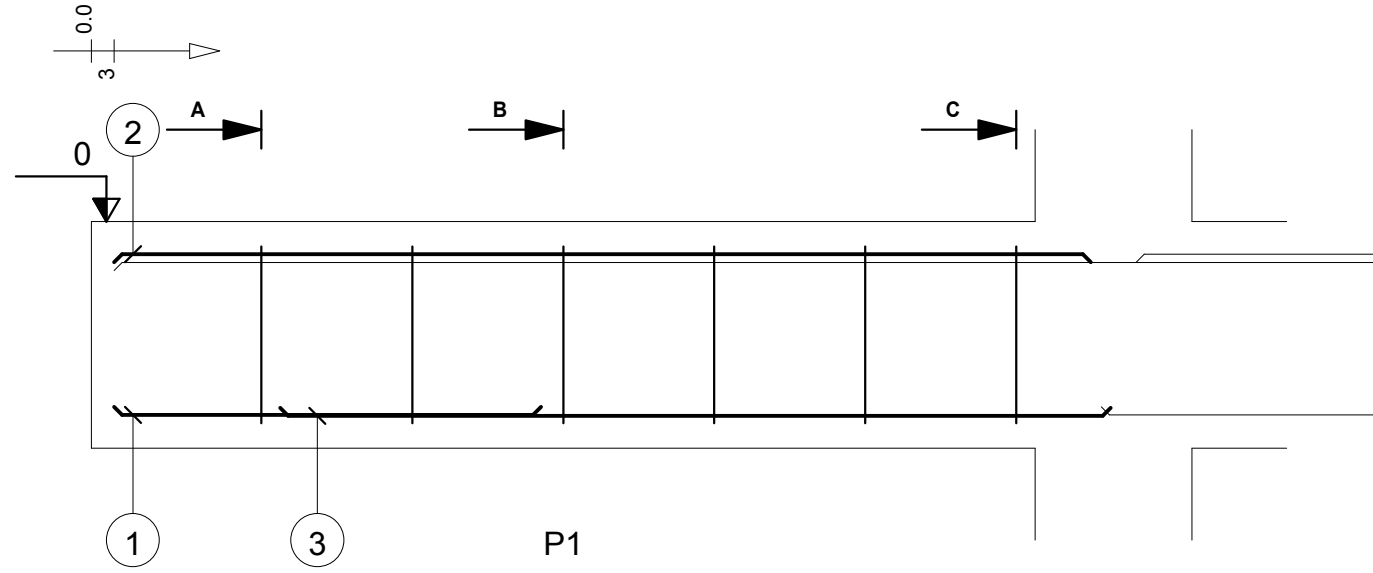
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00555 m3

-1

MINHDU_BAMBOUTOS_POUTRES

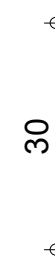
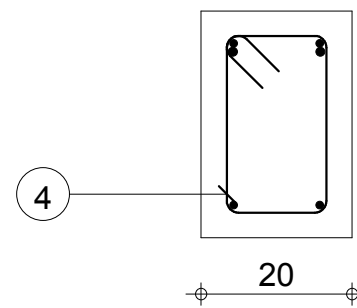
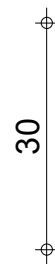
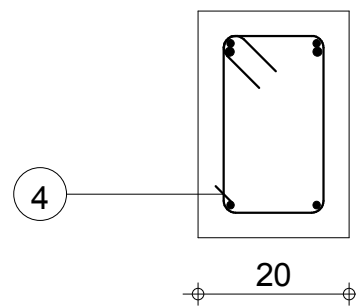
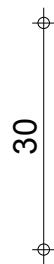
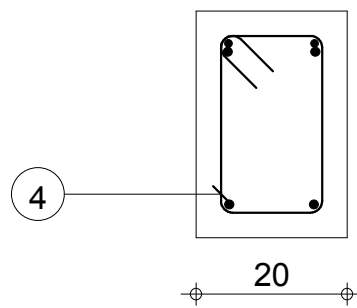
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| ① | 2HA 12 | I=57 | 57 |
| ② | 2HA 10 | I=1.29 | 1.29 |
| ③ | 2HA 10 | I=1.10 | 1.10 |
| ④ | 6HA 6 | I=88* |  |



A-A

B-B

C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGRS.35: P1

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.0812 m³

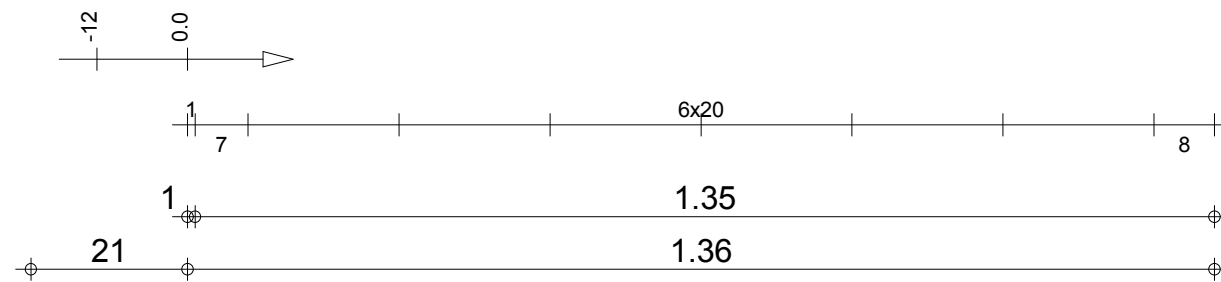
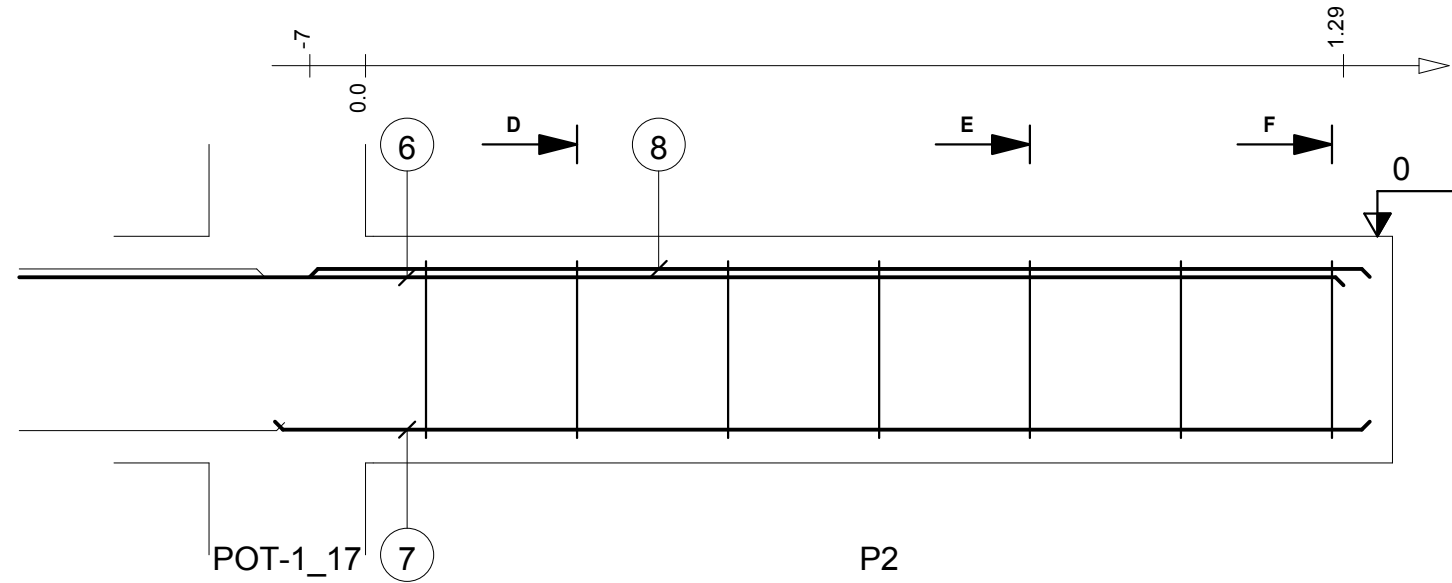
Acier HA 400 = 1.17 kg

Acier HA 400 = 3.96 kg

-1

MINHDU_BAMBOUTOS_POUTRES

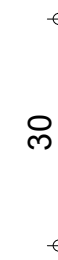
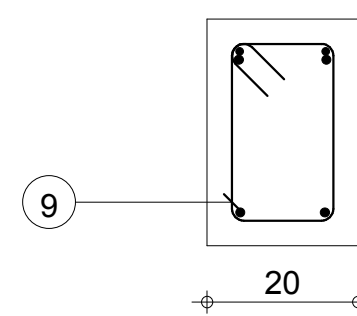
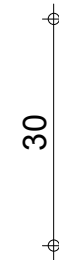
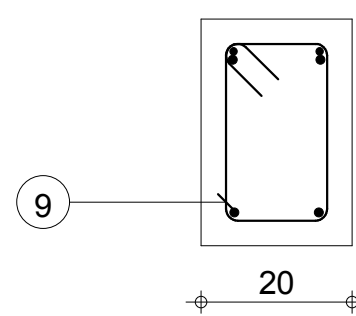
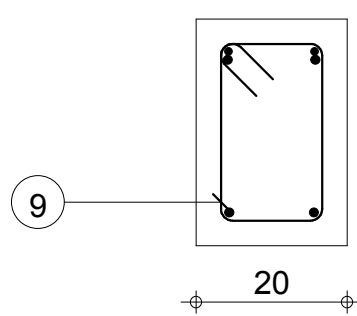
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| ⑥ | 2HA 12 | l=2.72 | 00 2.72 |
| ⑦ | 2HA 12 | l=1.45 | 00 1.45 |
| ⑧ | 2HA 10 | l=1.40 | 00 1.40 |
| ⑨ | 7HA 6 | l=88 | 31 14 8 |



D-D

E-E

F-F



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

LGRS.35: P2

Section 20x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.0878 m3

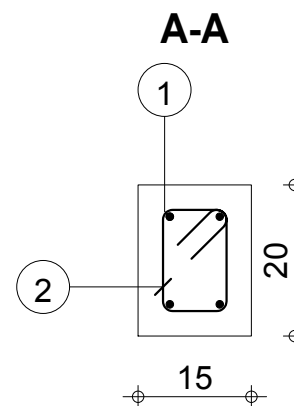
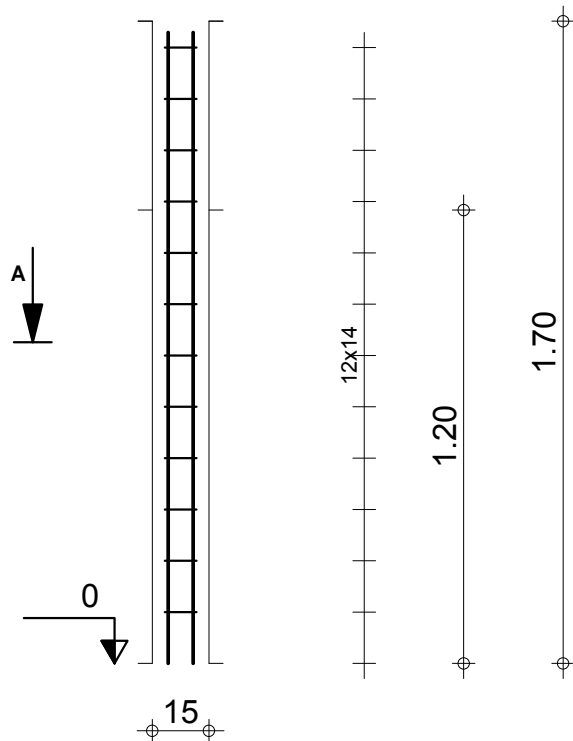
Acier HA 400 = 1.36 kg

Acier HA 400 = 9.14 kg

POTEAUX

MINHDU-BAMBOUTOS_Poteaux

| Pos. | Armature | Code | Forme |
|------|----------------|------|-------|
| ① | 4HA 10 =1.67 | 00 | 1.67 |
| ② | 12RL 6 =58 | 31 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

P1

Section 15x20

Enrobage 3 cm


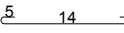
Page 1/3

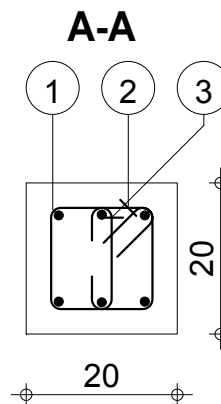
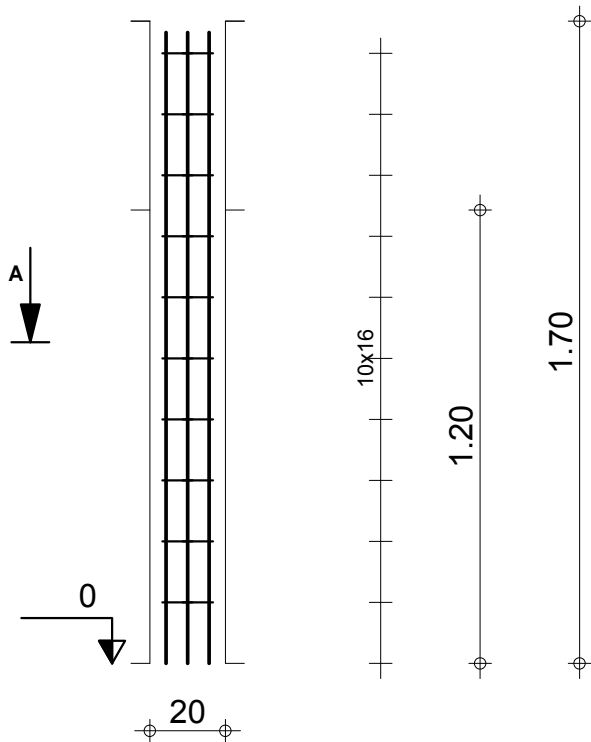
Béton : BETON20 = 0.036 m3

Acier HA 400 = 4.12 kg

Acier RL 235 = 1.53 kg

MINHDU-BAMBOUTOS_Poteaux

| Pos. | Armature | Code | Forme |
|------|---------------|------|---|
| ① | 6HA 12 l=1.67 | 00 | 1.67 |
| ② | 10RL 6 l=68 | 31 |  |
| ③ | 10RL 6 l=25 | 00 |  |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

P2

Section 20x20

Enrobage 3 cm

Page 2/3

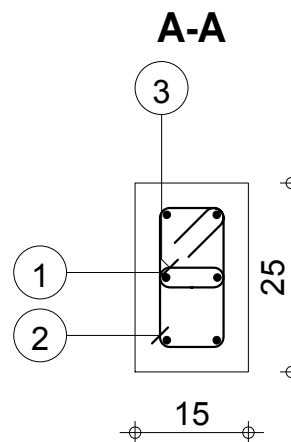
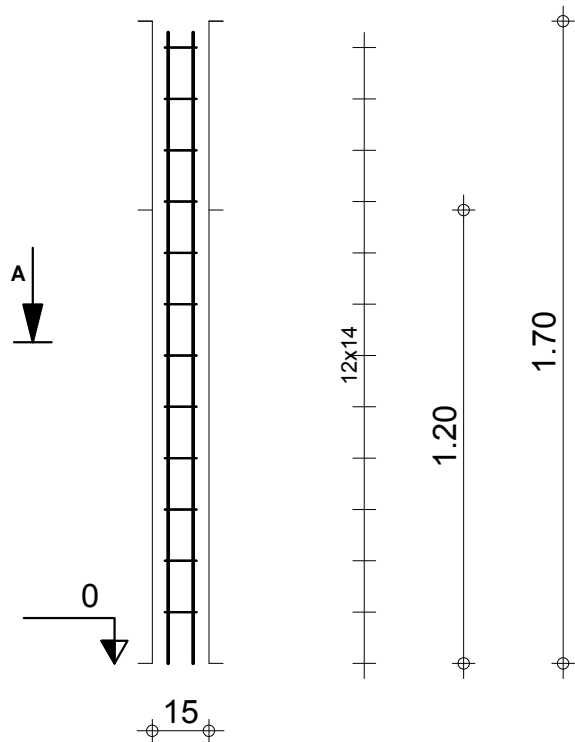
Béton : BETON20 = 0.048 m3

Acier HA 400 = 8.9 kg

Acier RL 235 = 2.05 kg

MINHDU-BAMBOUTOS_Poteaux

| Pos. | Armature | Code | Forme |
|------|---------------|------|----------|
| ① | 6HA 10 l=1.67 | 00 | — 1.67 — |
| ② | 12RL 6 l=68 | 31 | |
| ③ | 12RL 6 l=20 | 00 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

P3

Section 15x25

Enrobage 3 cm

Page 3/3

Béton : BETON20 = 0.045 m3


Acier HA 400 = 6.18 kg

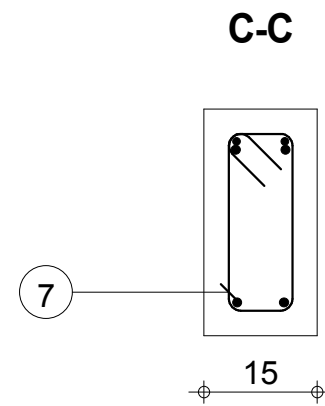
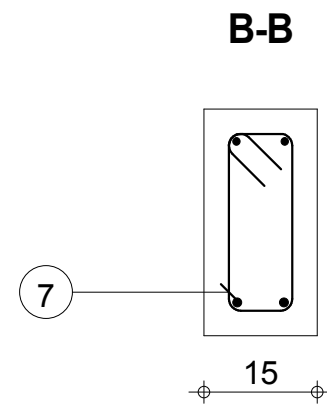
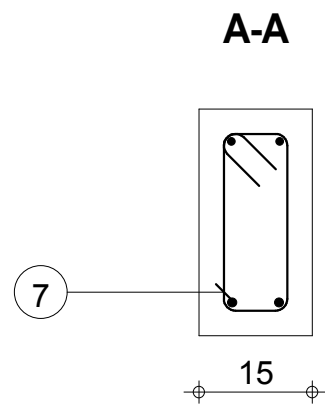
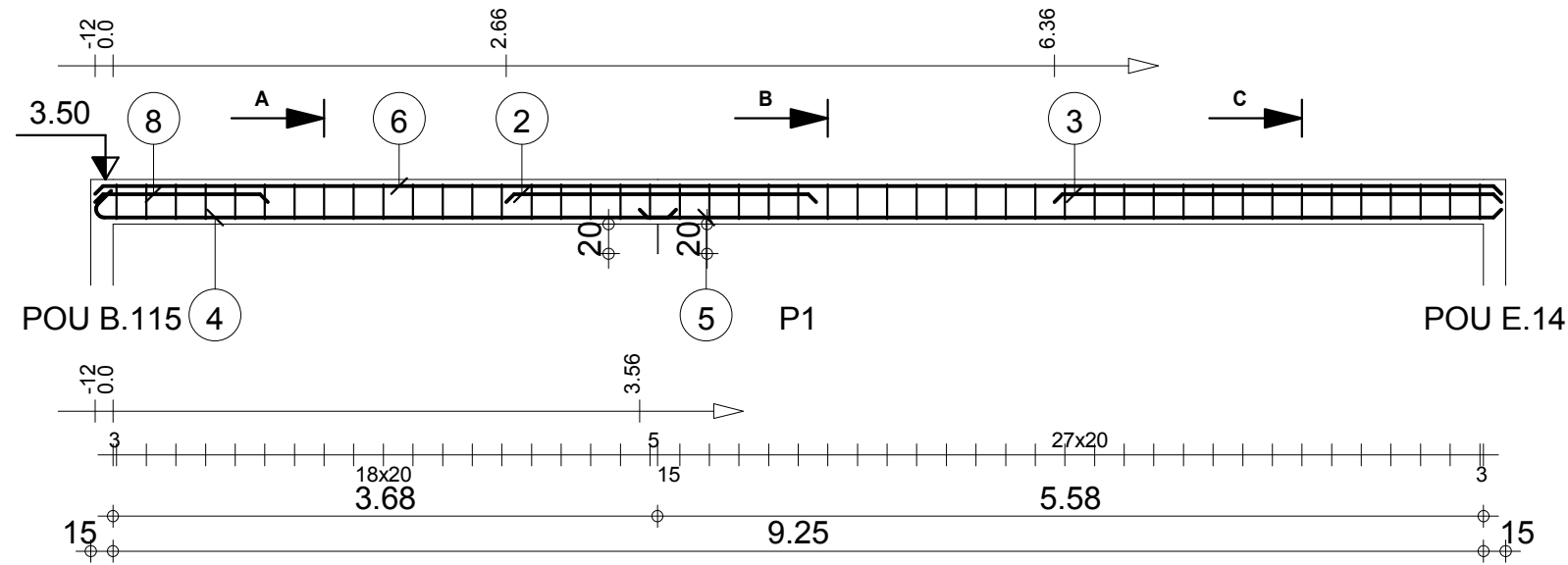
Acier RL 235 = 2.33 kg

POUTRES

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|---|
| ② | 2HA 12 | l=2.09 | 00 | 2.09 |
| ③ | 2HA 12 | l=3.02 | 00 | 3.02 |
| ④ | 2HA 12 | l=4.11 | 00 | 3.92 |
| ⑤ | 2HA 12 | l=5.82 | 00 | 5.82 |
| ⑥ | 2HA 10 | l=9.49 | 00 | 9.49 |
| ⑦ | 47HA 6 | l=78 | 31 |  |
| ⑧ | 2HA 12 | l=1.17 | 00 | 1.17 |



Tél.

Fax

Echelle pour la vue 1:50

Echelle pour la section 1:10

POU 1.BE: P1

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.434 m3

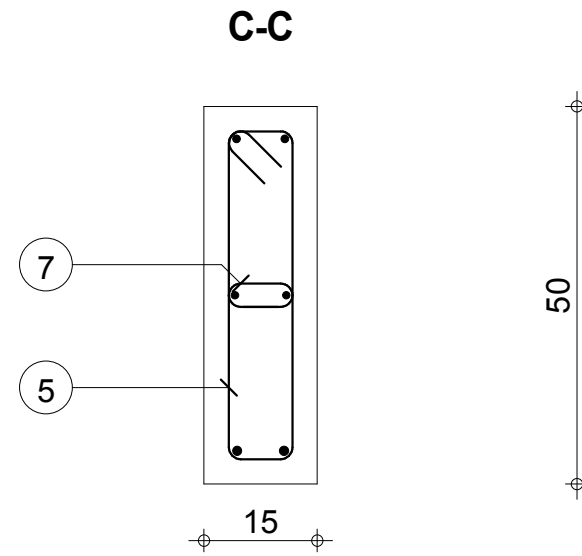
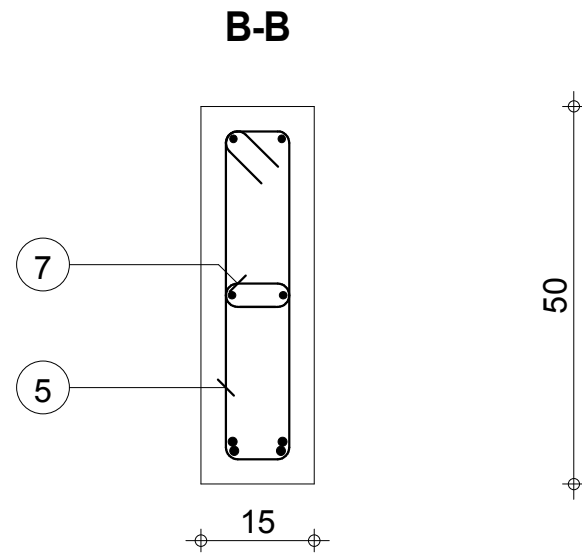
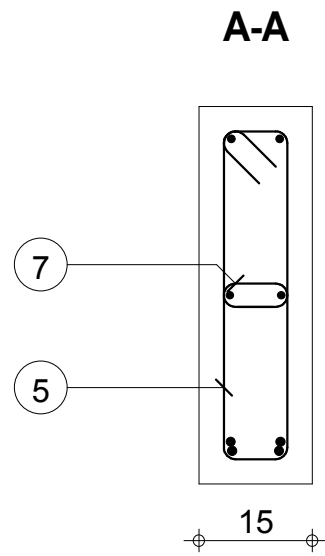
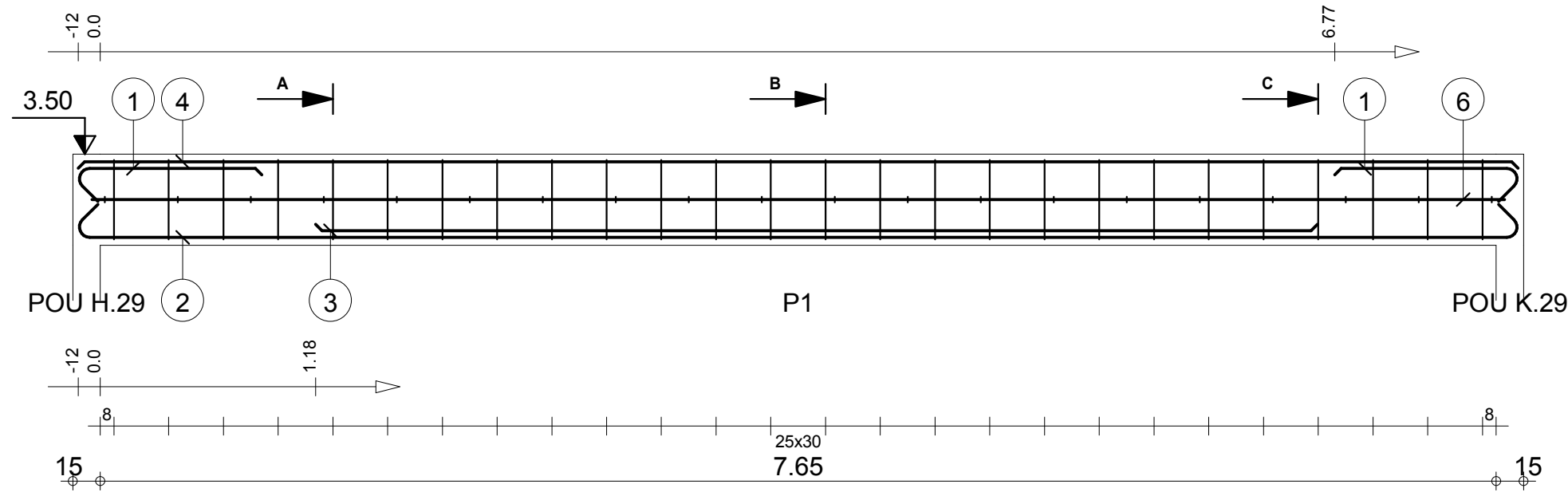
Acier HA 400 = 8.12 kg

Acier HA 400 = 40.5 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 4HA 12 | l=1.20 | 00 | |
| ② | 2HA 12 | l=8.27 | 00 | |
| ③ | 2HA 12 | l=5.49 | 00 | |
| ④ | 2HA 10 | l=7.89 | 00 | |
| ⑤ | 26HA 6 | l=1.18 | 31 | |
| ⑥ | 2HA 10 | l=7.74 | 00 | |
| ⑦ | 20HA 6 | l=25 | 00 | |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 2.HK: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.596 m3

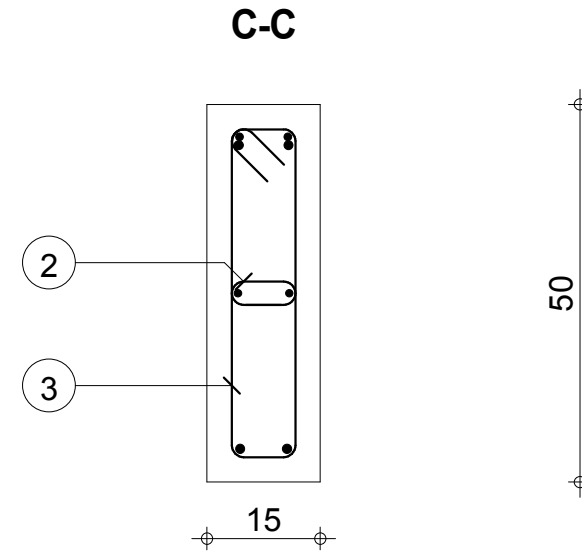
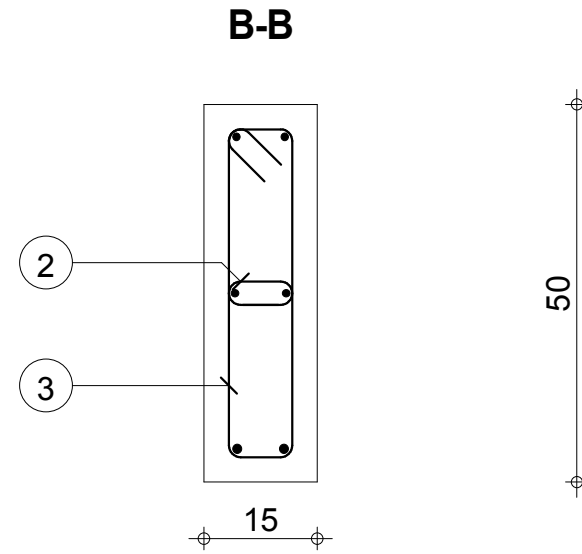
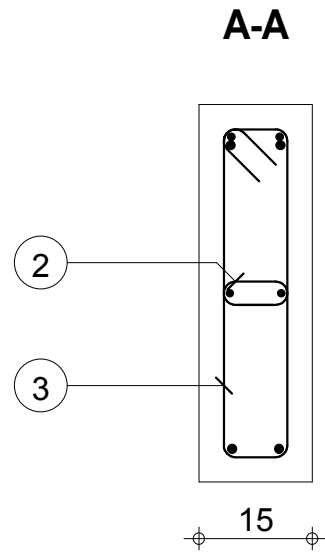
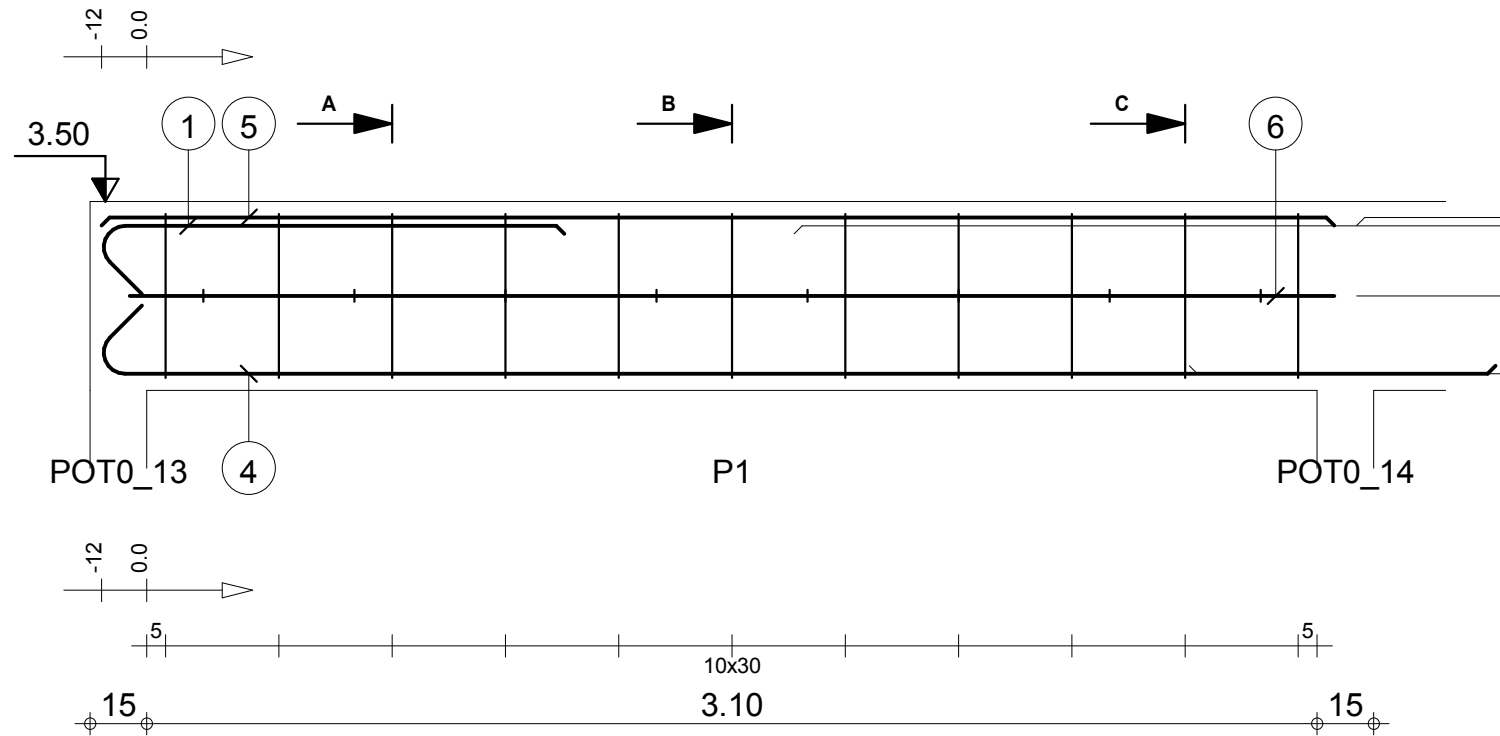
Acier HA 400 = 17.5 kg

Acier HA 400 = 38.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.42 | 00 | |
| ② | 8HA 6 | l=25 | 00 | |
| ③ | 11HA 6 | l=1.18 | 31 | |
| ④ | 2HA 12 | l=3.88 | 00 | |
| ⑤ | 2HA 10 | l=3.27 | 00 | |
| ⑥ | 2HA 10 | l=3.19 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 4.LS: P1
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

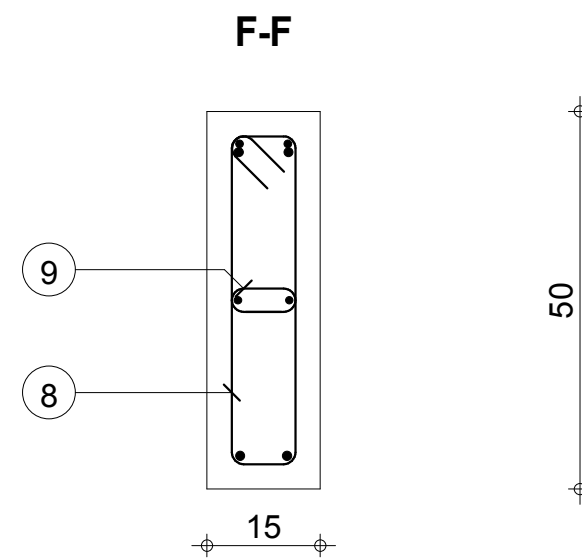
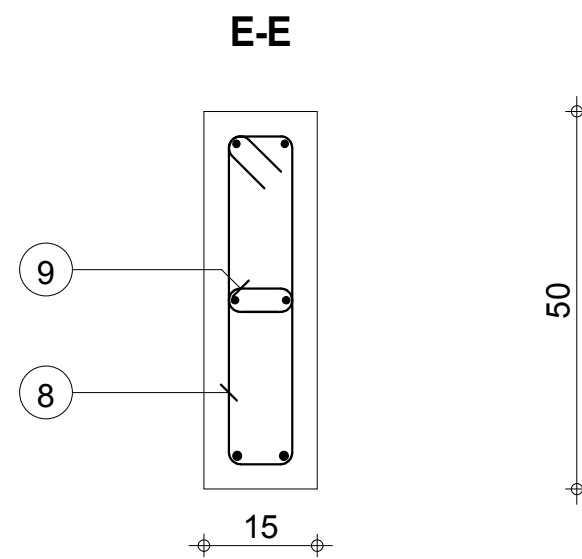
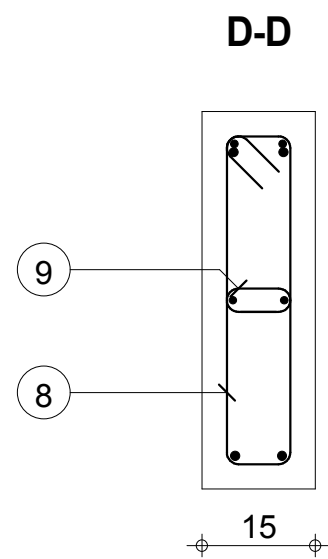
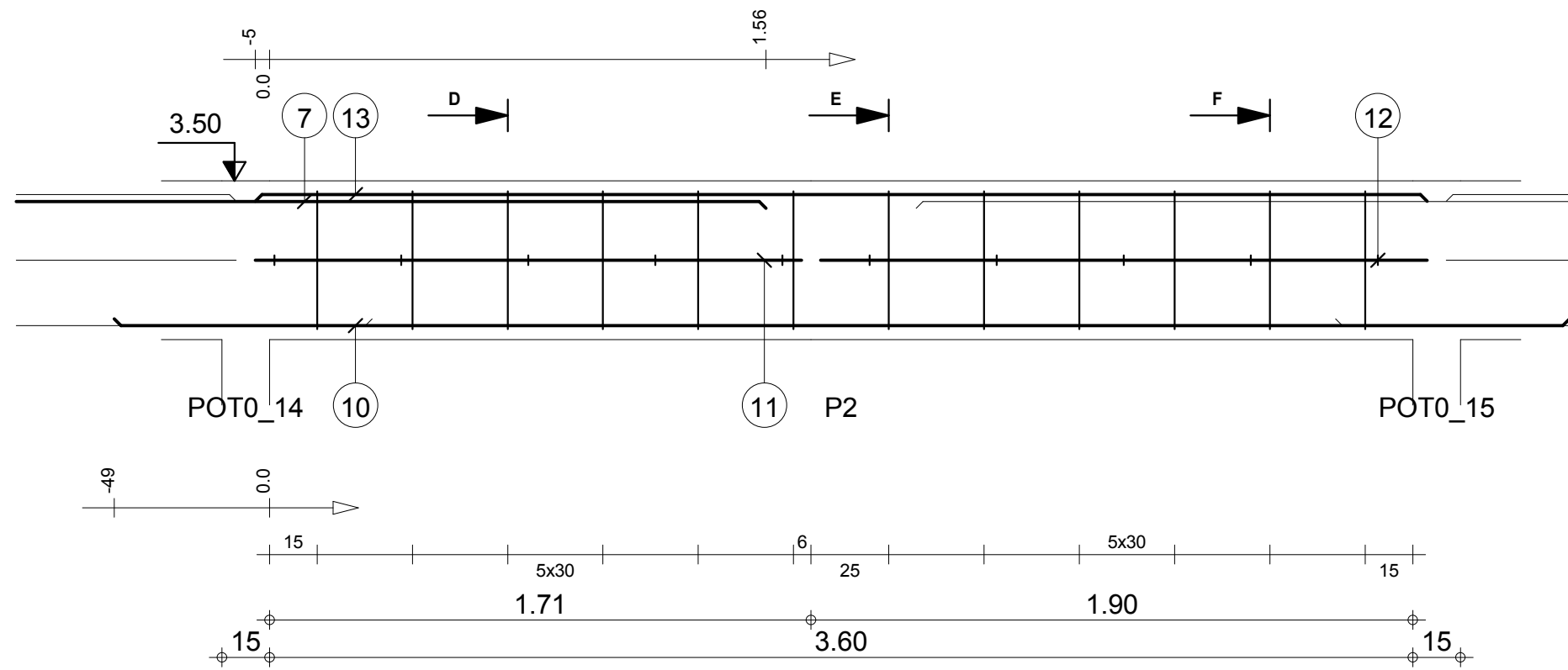
Page 1/4

Béton : BETON20 = 0.249 m3
Acier HA 400 = 7.25 kg
Acier HA 400 = 13.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=3.10 | 00 | 3.10 |
| 8 | 2*6HA 6 | l=1.18 | 31 | |
| 9 | 2*5HA 6 | l=25 | 00 | |
| 10 | 2HA 12 | l=4.58 | 00 | 4.58 |
| 11 | 2HA 10 | l=1.72 | 00 | 1.72 |
| 12 | 2HA 10 | l=1.91 | 00 | 1.91 |
| 13 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 4.LS: P2
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

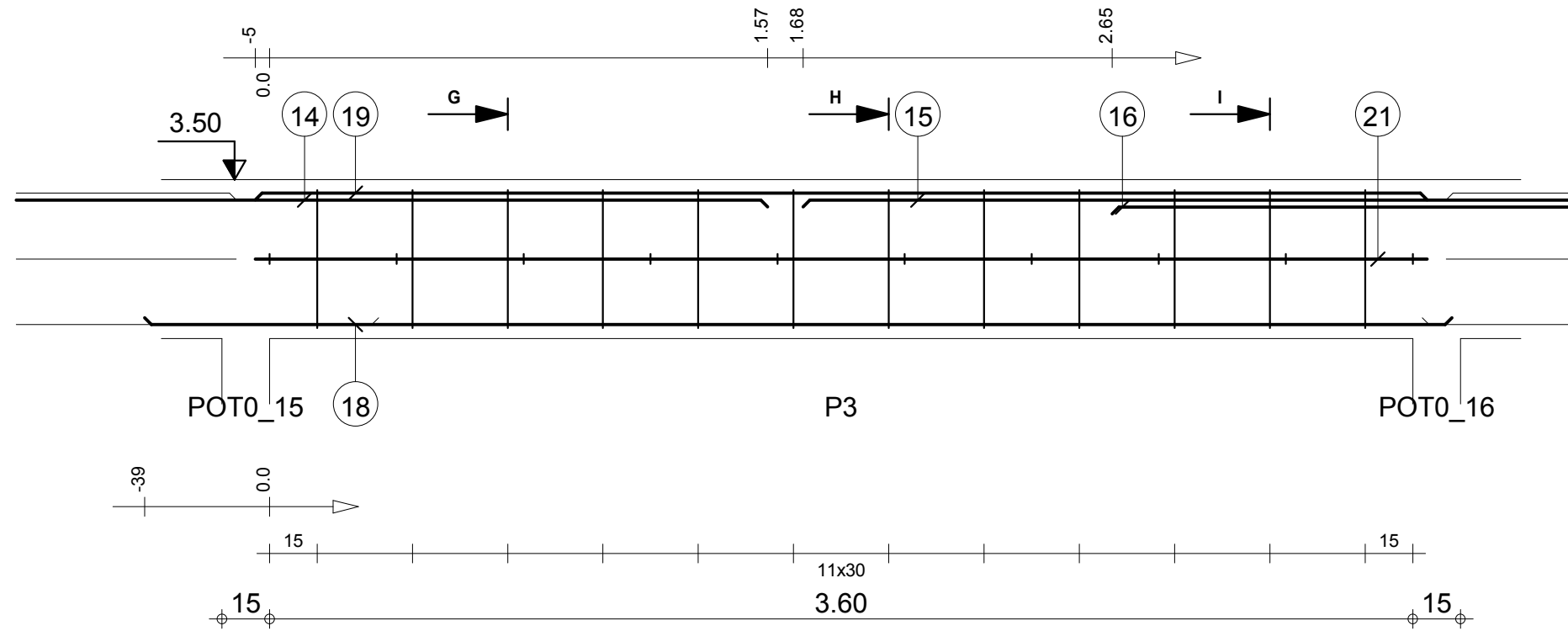
Page 2/4

Béton : BETON20 = 0.281 m3
Acier HA 400 = 8.17 kg
Acier HA 400 = 18.2 kg

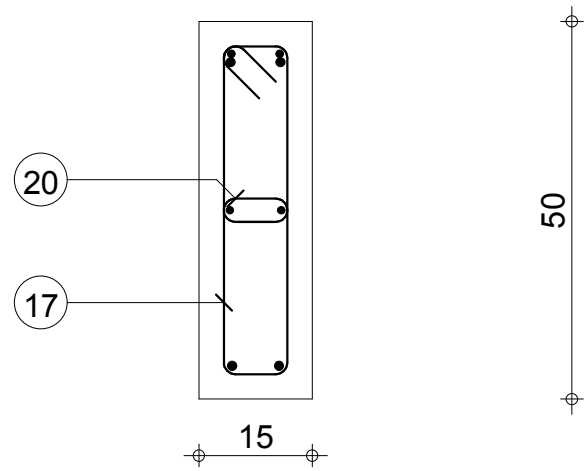
0

MINHDU_BAMBOUTOS_POUTRES

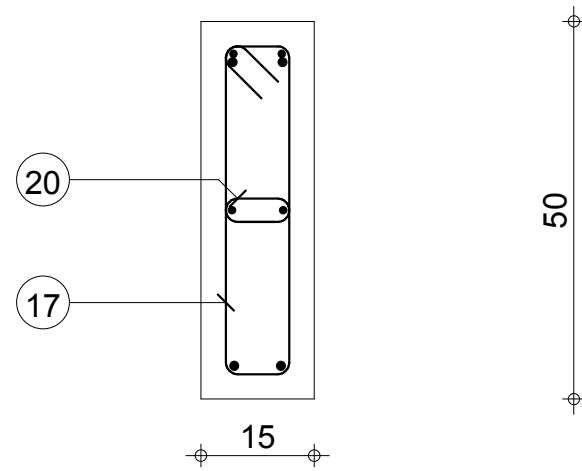
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 14 | 2HA 12 | l=3.28 | 00 |
| 15 | 2HA 12 | l=3.57 | 00 |
| 16 | 2HA 12 | l=1.97 | 00 |
| 17 | 12HA 6 | l=1.18 | 31 |
| 18 | 2HA 12 | l=4.12 | 00 |
| 19 | 2HA 10 | l=3.69 | 00 |
| 20 | 10HA 6 | l=25 | 00 |
| 21 | 2HA 10 | l=3.69 | 00 |



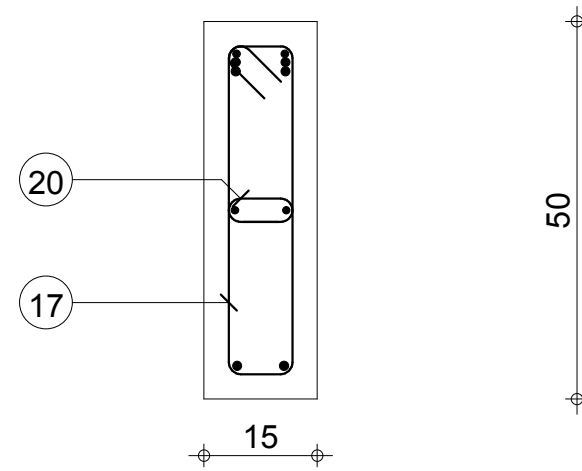
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 4.LS: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4


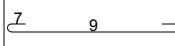
Béton : BETON20 = 0.281 m3

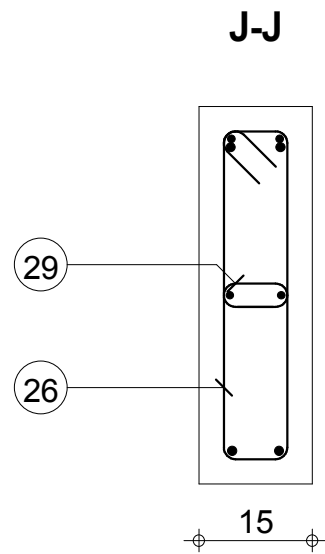
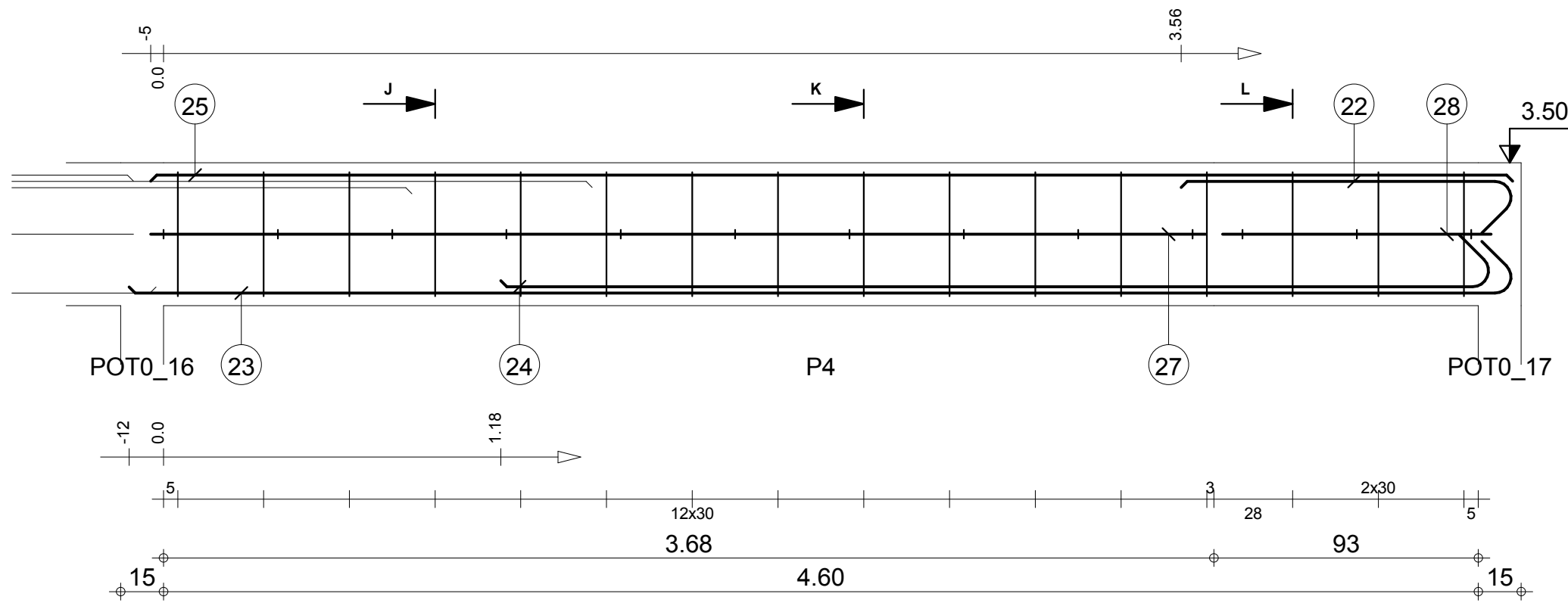
Acier HA 400 = 8.24 kg

Acier HA 400 = 27.5 kg

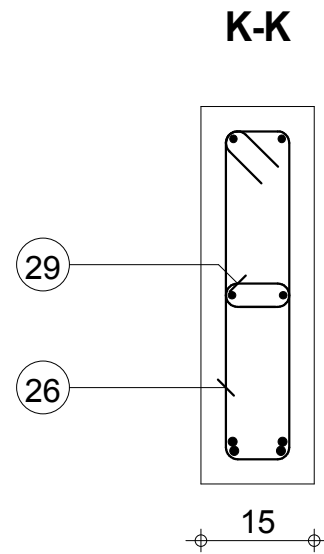
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MINHDU_BAMBOUTOS_POUTRES

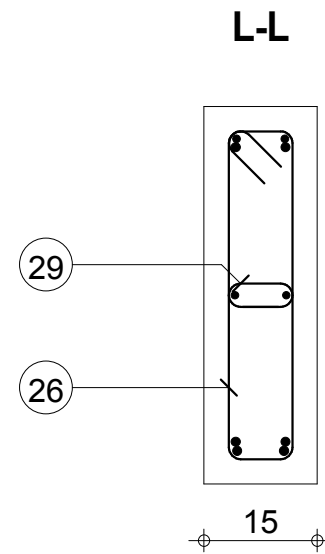
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 22 | 2HA 12 | l=1.35 | 00 | 1.16 |
| 23 | 2HA 12 | l=5.03 | 00 | 4.84 |
| 24 | 2HA 12 | l=3.65 | 00 | 3.46 |
| 25 | 2HA 10 | l=4.76 | 00 | 4.77 |
| 26 | 2*8HA 6 | l=1.18 | 31 |  |
| 27 | 2HA 10 | l=3.69 | 00 | 3.69 |
| 28 | 2HA 10 | l=94 | 00 | 94 |
| 29 | 13HA 6 | l=25 | 00 |  |



50



50



50

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 4.LS: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.362 m3

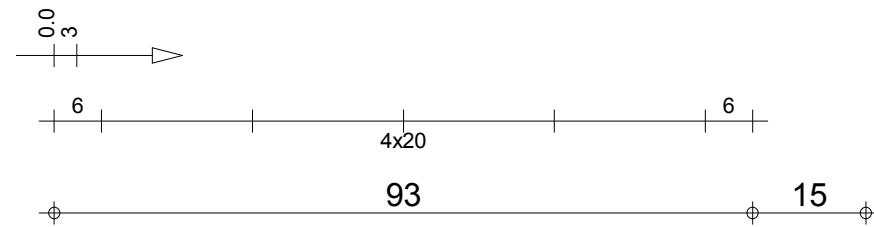
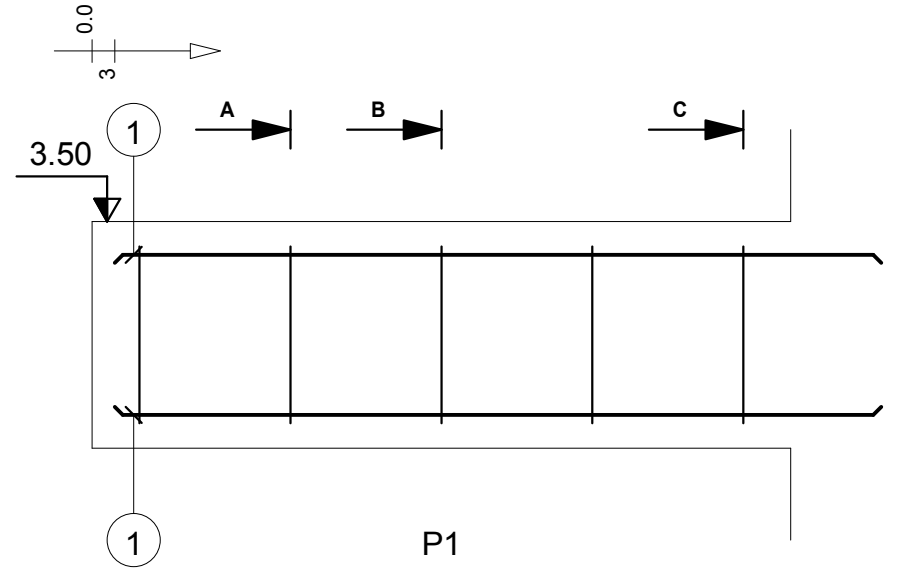
Acier HA 400 = 10.6 kg

Acier HA 400 = 23.7 kg

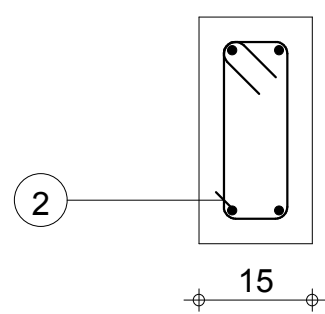
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MINHDU_BAMBOUTOS_POUTRES

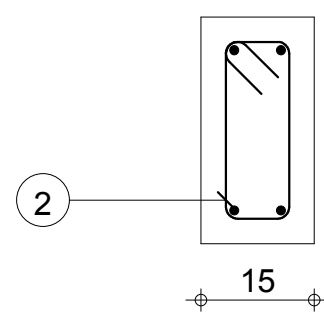
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 4HA 12 | I=1.02 | 1.02 |
| ② | 5HA 6 | I=78 | 31 |



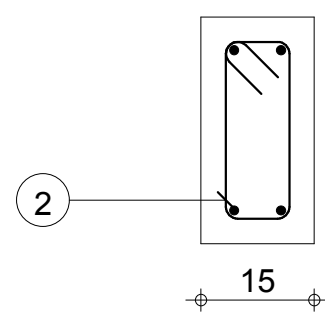
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

POU 5.RS: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.0484 m3

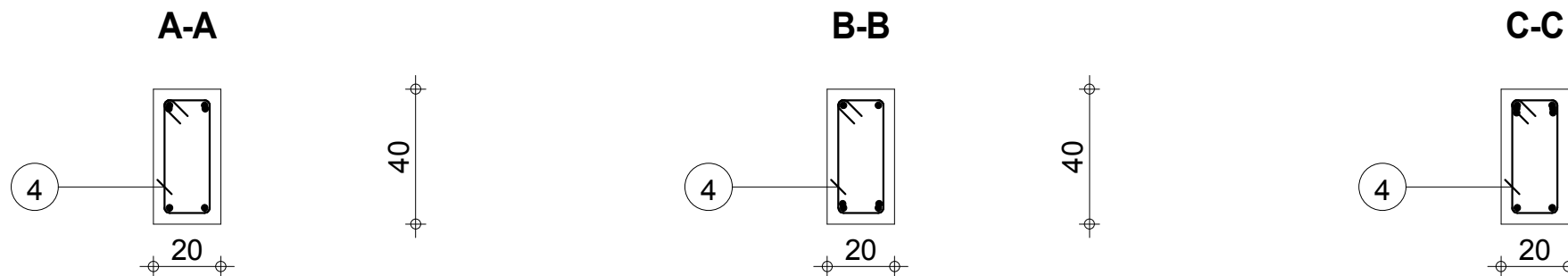
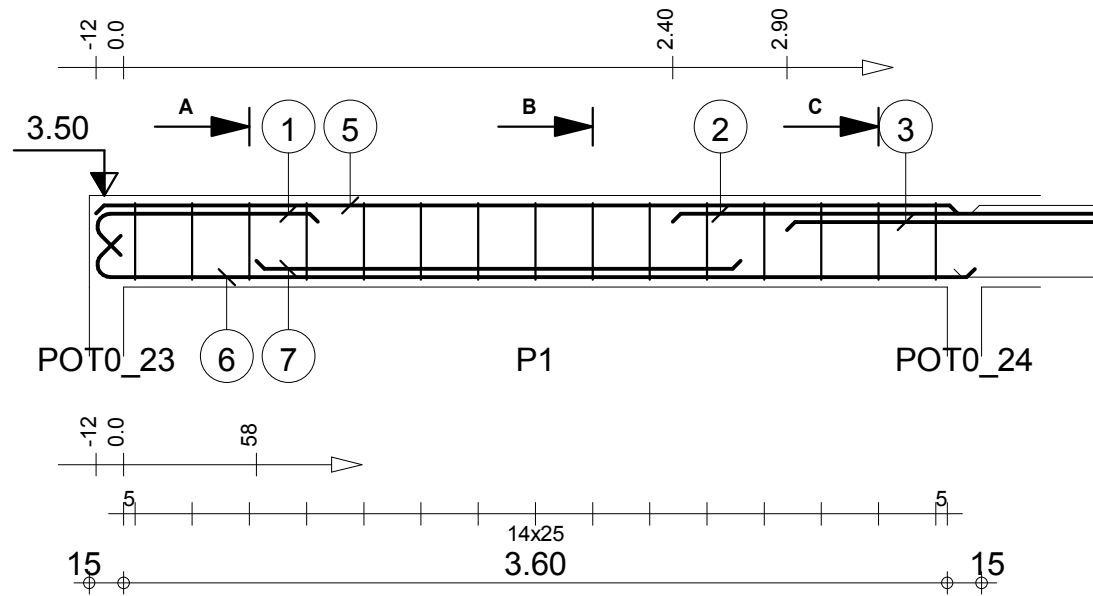
Acier HA 400 = 0.863 kg

Acier HA 400 = 3.6 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.16 | 00 | |
| ② | 2HA 12 | l=2.55 | 00 | |
| ③ | 2HA 12 | l=1.55 | 00 | |
| ④ | 15HA 6 | l=1.08 | 31 | |
| ⑤ | 2HA 10 | l=3.77 | 00 | |
| ⑥ | 2HA 12 | l=4.03 | 00 | |
| ⑦ | 2HA 12 | l=2.12 | 00 | |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

POU 7.BK: P1

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.306 m3

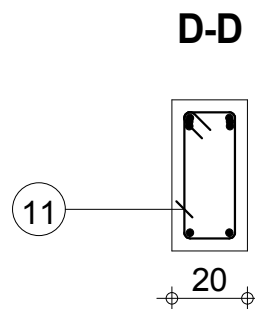
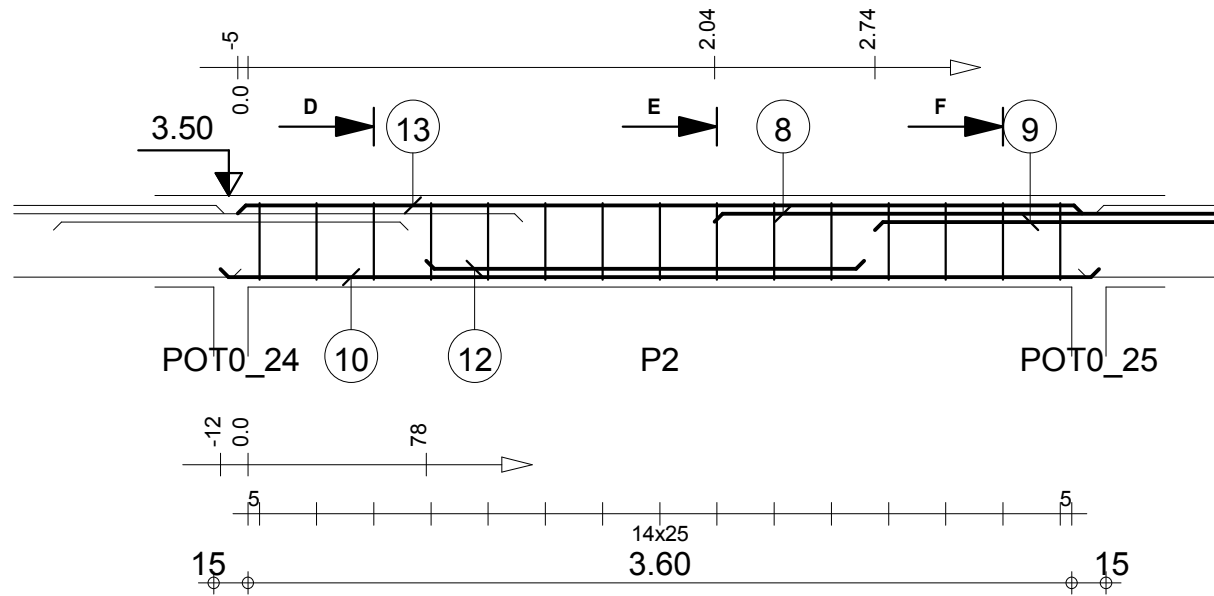
Acier HA 400 = 3.59 kg

Acier HA 400 = 24.9 kg

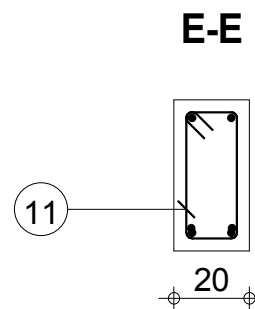
0

MINHDU_BAMBOUTOS_POUTRES

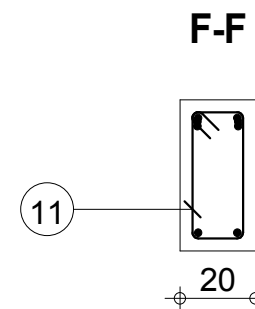
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 8 | 2HA 12 | l=3.27 | 00 | 3.27 |
| 9 | 2HA 12 | l=1.77 | 00 | 1.77 |
| 10 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 11 | 15HA 6 | l=1.08 | 31 | |
| 12 | 2HA 12 | l=1.91 | 00 | 1.91 |
| 13 | 2HA 10 | l=3.69 | 00 | 3.69 |



40



40



40

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

POU 7.BK: P2

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.3 m3

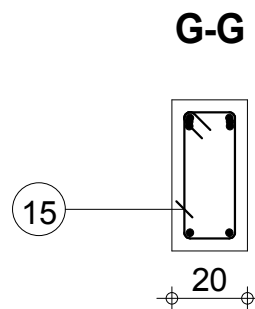
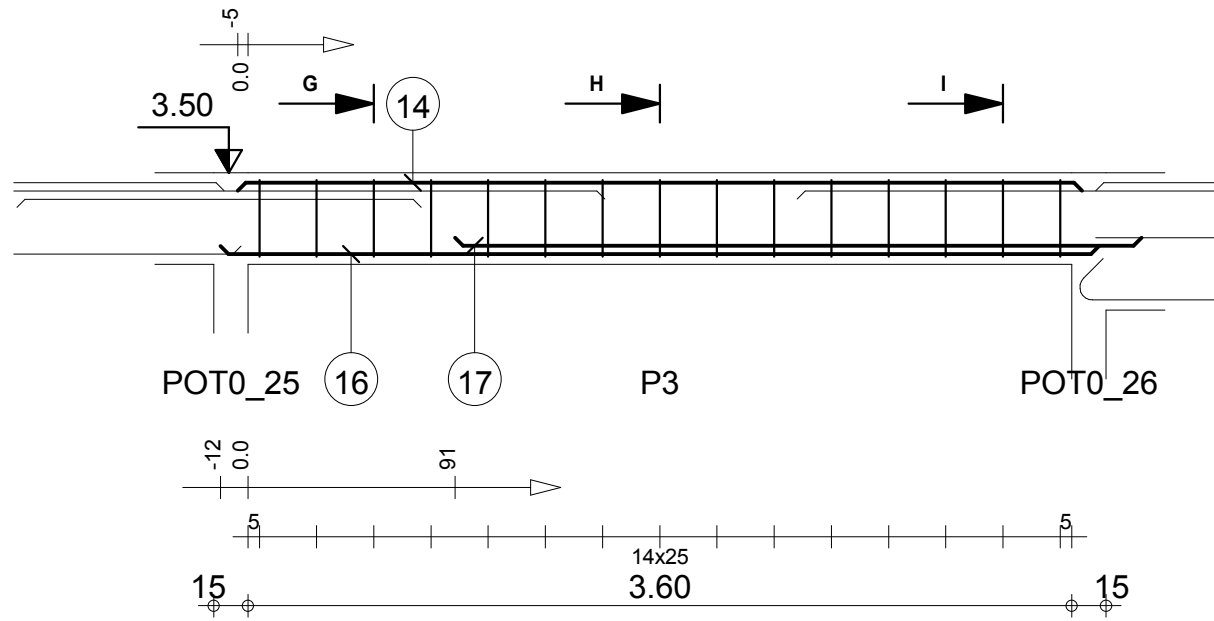
Acier HA 400 = 3.59 kg

Acier HA 400 = 23.7 kg

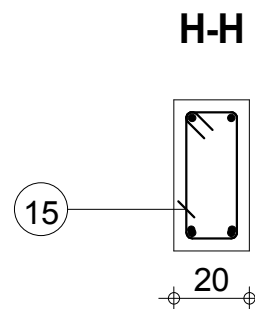
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MINHDU_BAMBOUTOS_POUTRES

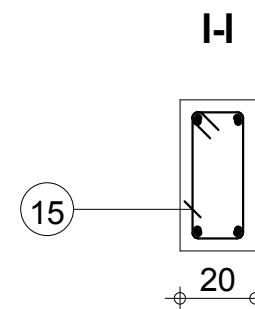
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 14 | 2HA 10 | l=3.69 | 00 | 3.69 |
| 15 | 15HA 6 | l=1.08 | 31 | |
| 16 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 17 | 2HA 12 | l=3.00 | 00 | 3.00 |



40



40



40

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

POU 7.BK: P3

Section 20x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.306 m3

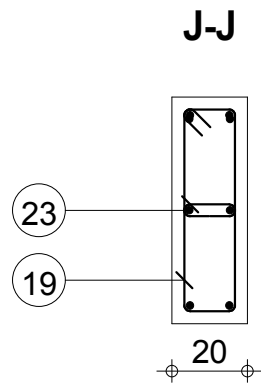
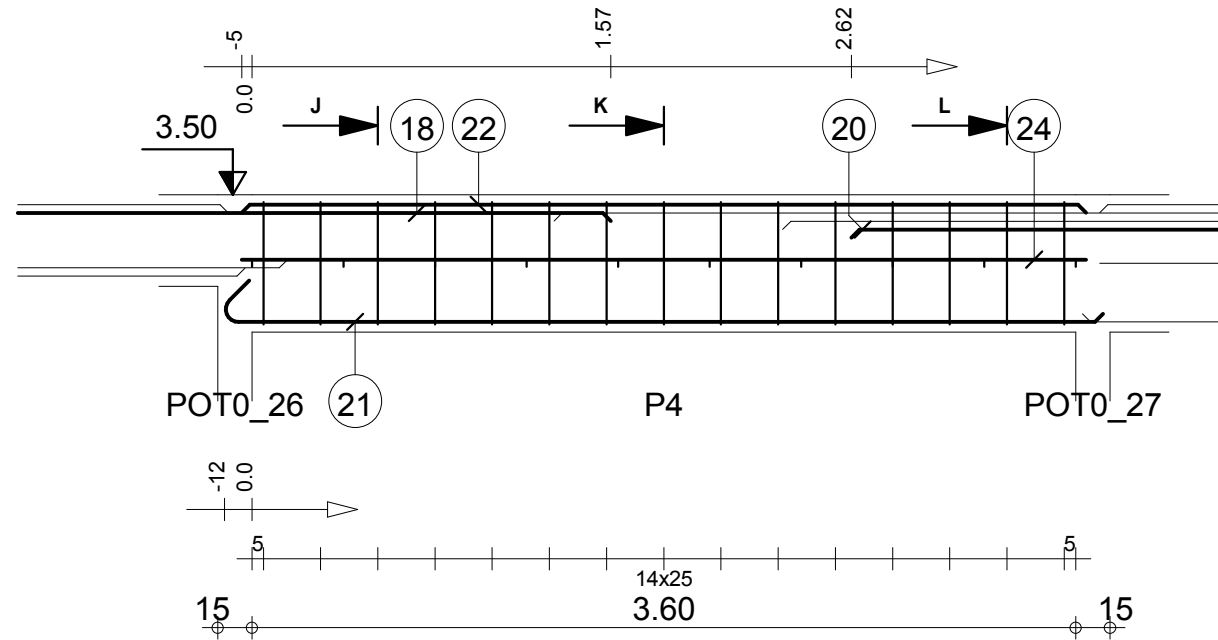
Acier HA 400 = 3.59 kg

Acier HA 400 = 16.7 kg

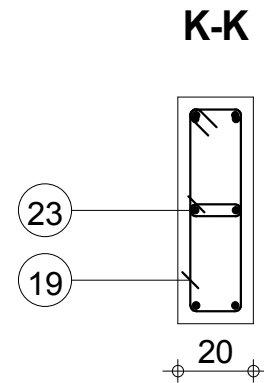
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MINHDU_BAMBOUTOS_POUTRES

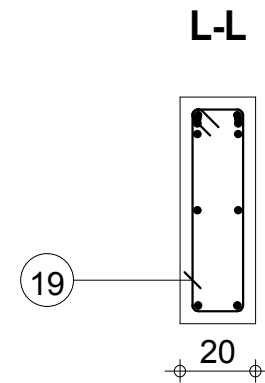
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 18 | 2HA 12 | l=2.92 | 00 | 2.92 |
| 19 | 15HA 6 | l=1.48 | 31 | |
| 20 | 2HA 12 | l=2.04 | 00 | 2.05 |
| 21 | 2HA 12 | l=4.03 | 00 | |
| 22 | 2HA 10 | l=3.69 | 00 | 3.69 |
| 23 | 10HA 6 | l=30 | 00 | |
| 24 | 2HA 10 | l=3.69 | 00 | 3.69 |



60



60



60

Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

POU 7.BK: P4

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.453 m3

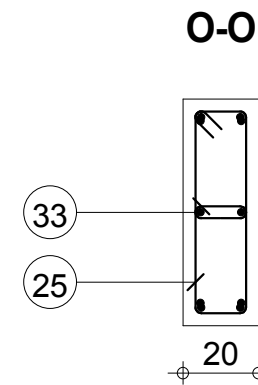
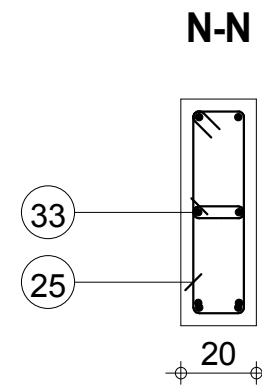
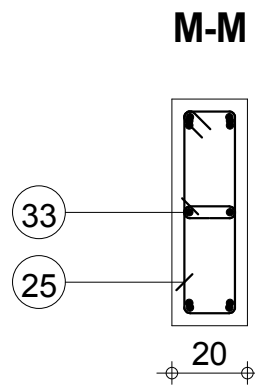
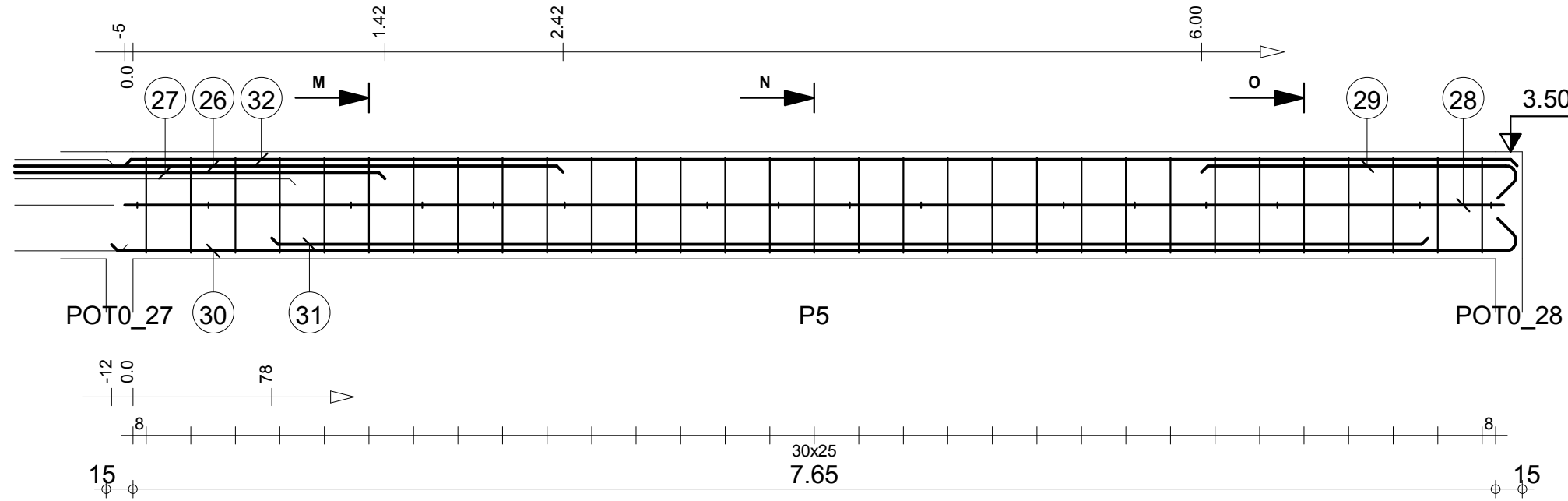
Acier HA 400 = 10.1 kg

Acier HA 400 = 20.5 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 25 | 31HA 6 | l=1.48 | 31 | |
| 26 | 2HA 12 | l=4.84 | 00 | |
| 27 | 2HA 12 | l=2.85 | 00 | |
| 28 | 2HA 10 | l=7.74 | 00 | |
| 29 | 2HA 12 | l=1.96 | 00 | |
| 30 | 2HA 12 | l=8.08 | 00 | |
| 31 | 2HA 12 | l=6.49 | 00 | |
| 32 | 2HA 10 | l=7.82 | 00 | |
| 33 | 20HA 6 | l=30 | 00 | |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:20

POU 7.BK: P5

Section 20x60

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.945 m3

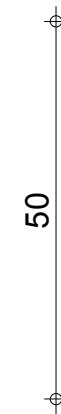
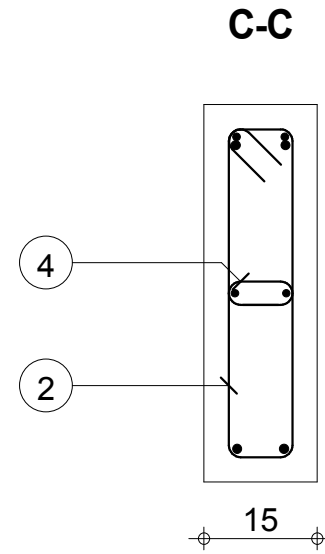
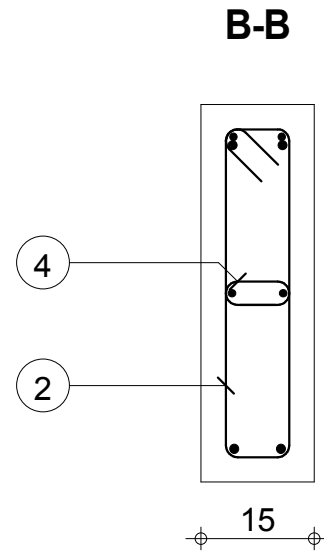
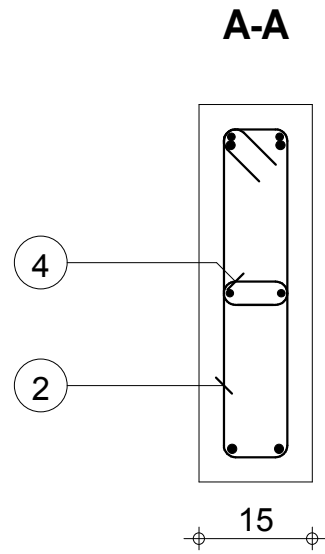
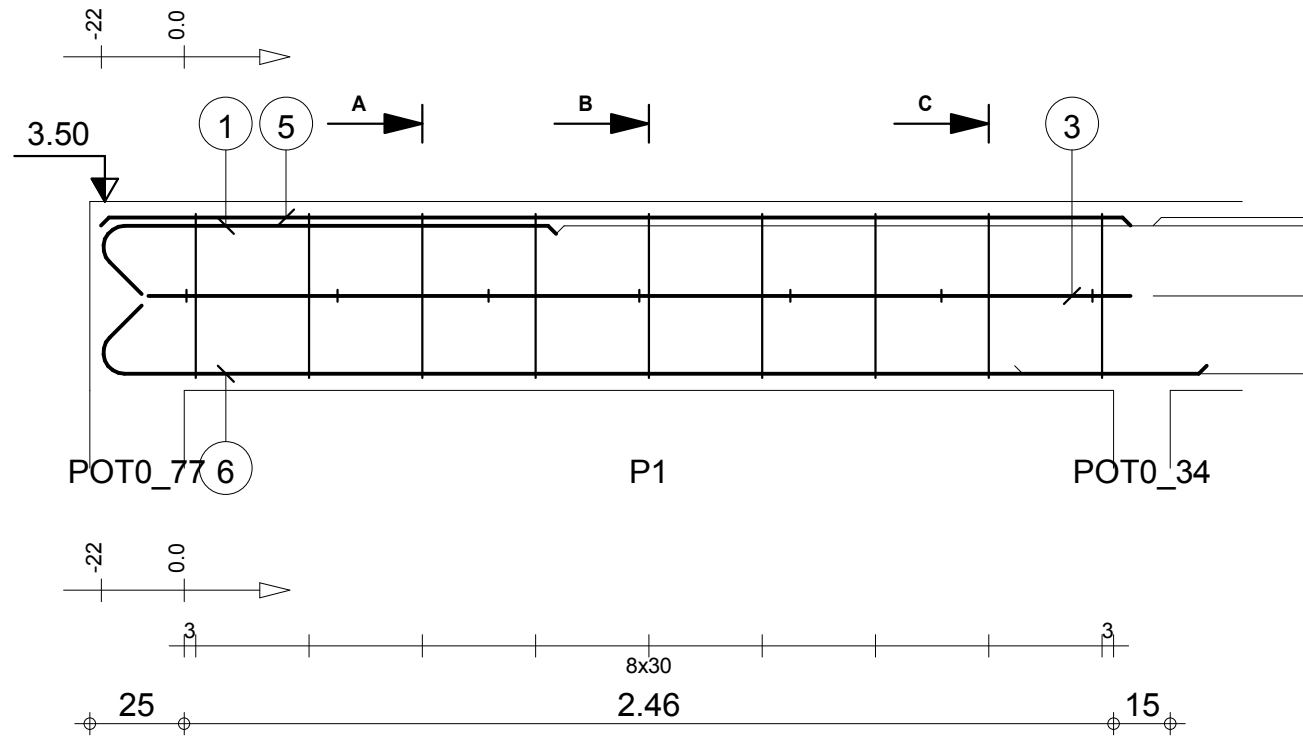
Acier HA 400 = 21 kg

Acier HA 400 = 52.6 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.40 | 00 | |
| ② | 9HA 6 | l=1.18 | 31 | |
| ③ | 2HA 10 | l=2.60 | 00 | |
| ④ | 7HA 6 | l=25 | 00 | |
| ⑤ | 2HA 10 | l=2.73 | 00 | |
| ⑥ | 2HA 12 | l=3.12 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.B'K: P1
Section 15x50

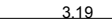
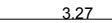
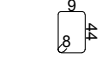

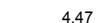
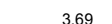
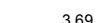
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

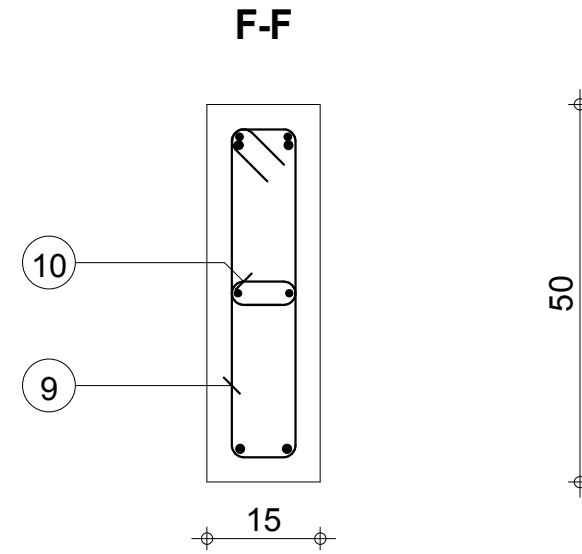
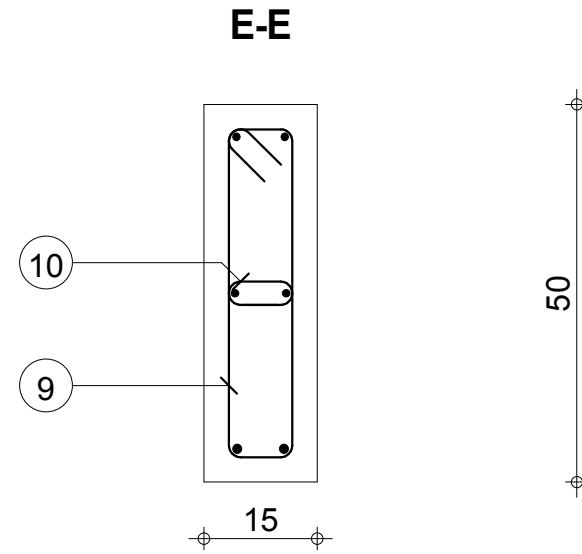
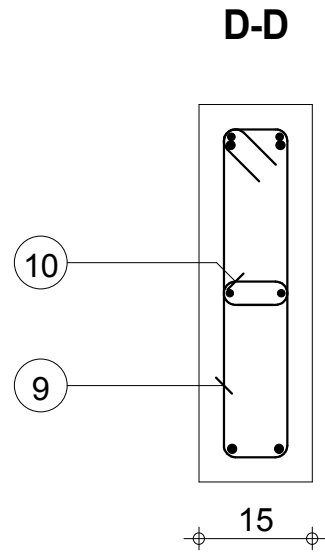
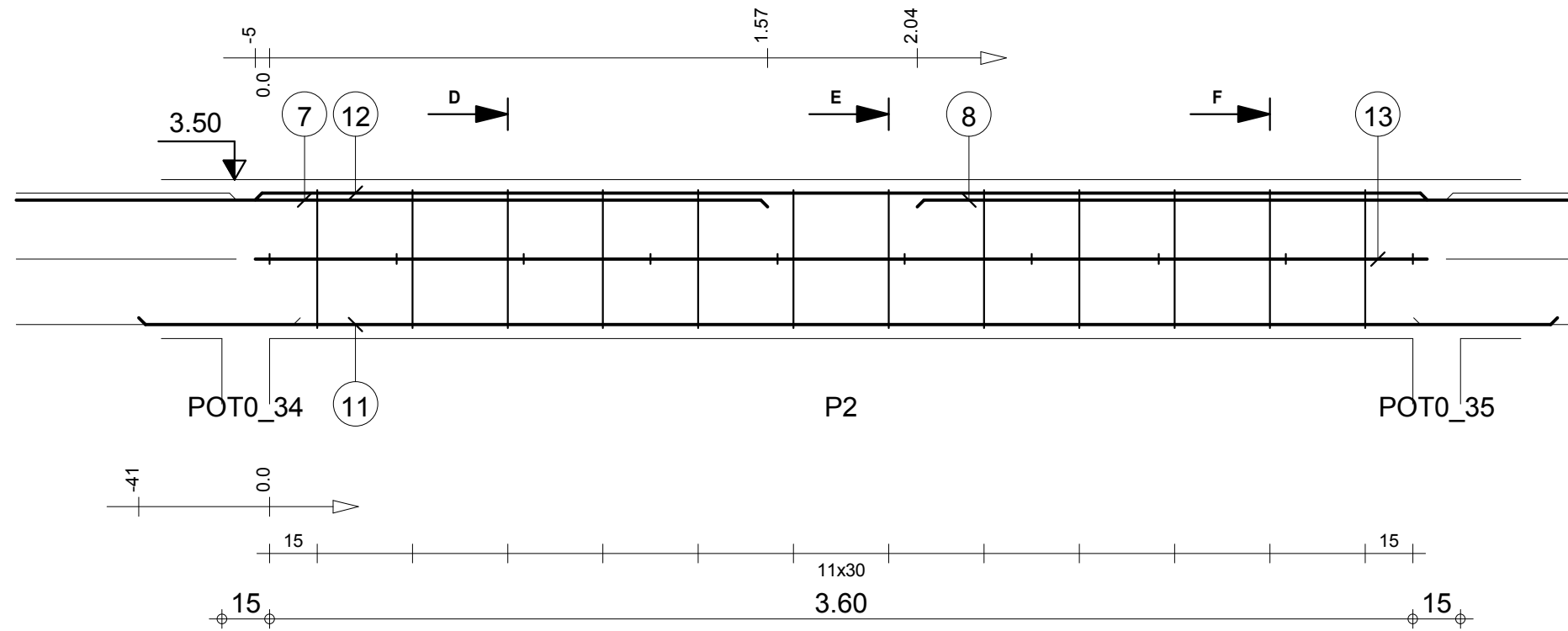
Page 1/7

Béton : BETON20 = 0.209 m3
Acier HA 400 = 5.95 kg
Acier HA 400 = 11.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 7 | 2HA 12 | l=3.20 | 00  |
| 8 | 2HA 12 | l=3.27 | 00  |
| 9 | 12HA 6 | l=1.18 | 31  |
| 10 | 10HA 6 | l=25 | 00  |
| 11 | 2HA 12 | l=4.47 | 00  |
| 12 | 2HA 10 | l=3.69 | 00  |
| 13 | 2HA 10 | l=3.69 | 00  |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.B'K: P2
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

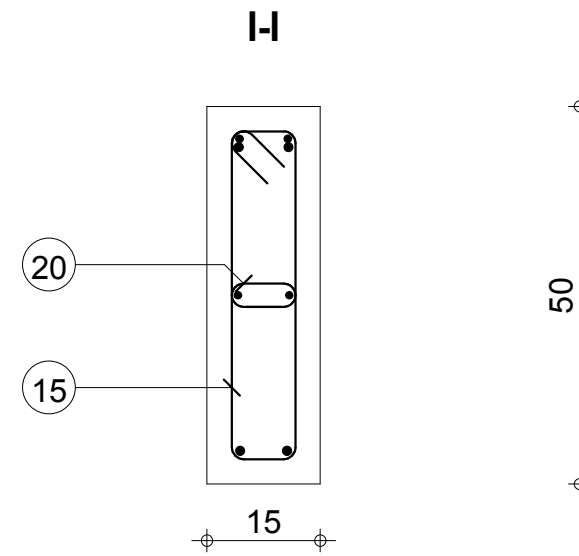
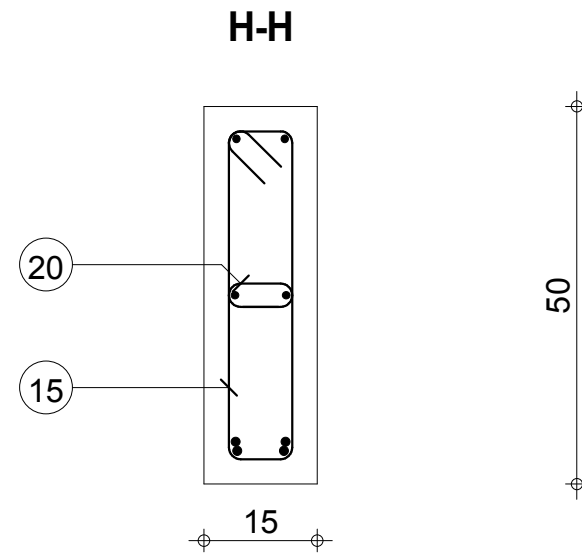
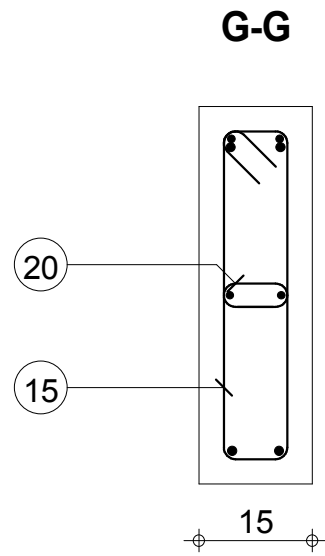
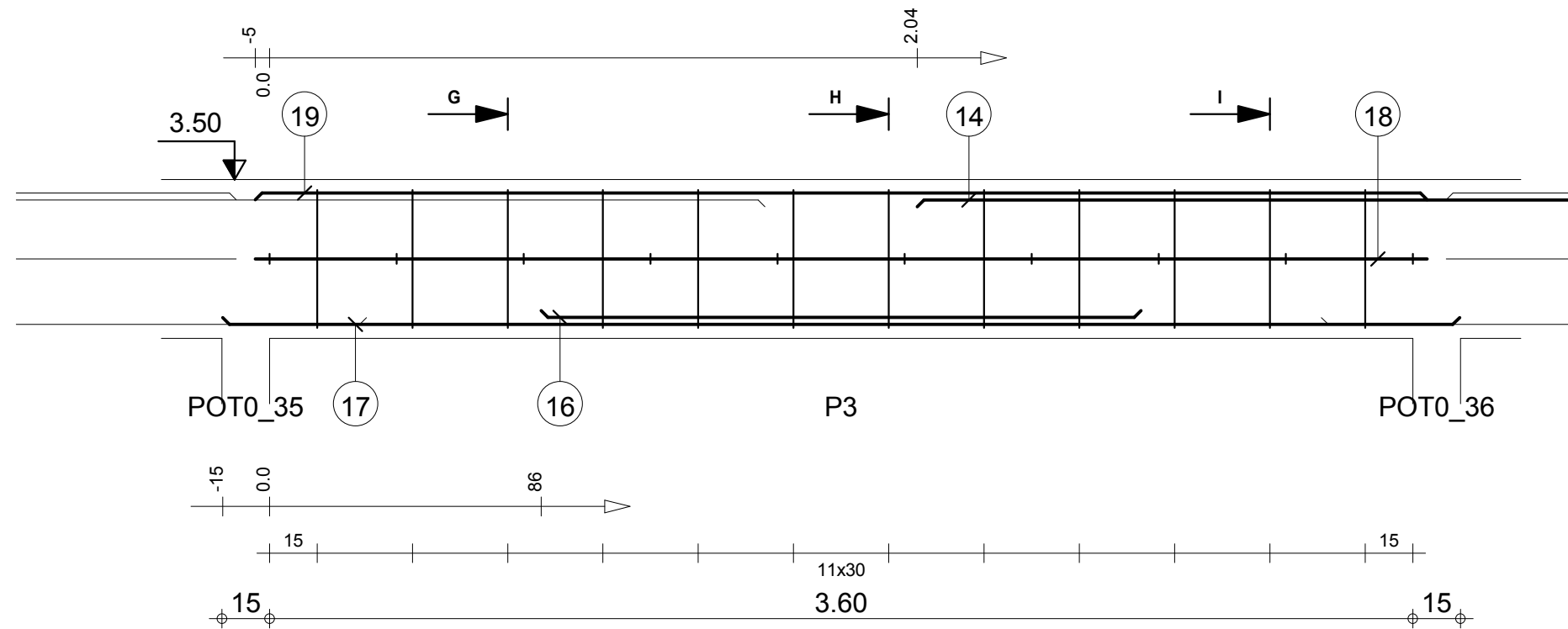
Page 2/7

Béton : BETON20 = 0.281 m3
Acier HA 400 = 8.24 kg
Acier HA 400 = 24 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 14 | 2HA 12 | l=3.27 | 00 | 3.27 |
| 15 | 12HA 6 | l=1.18 | 31 | |
| 16 | 2HA 12 | l=1.89 | 00 | 1.89 |
| 17 | 2HA 12 | l=3.90 | 00 | 3.89 |
| 18 | 2HA 10 | l=3.69 | 00 | 3.69 |
| 19 | 2HA 10 | l=3.69 | 00 | 3.69 |
| 20 | 10HA 6 | l=25 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.B'K: P3
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

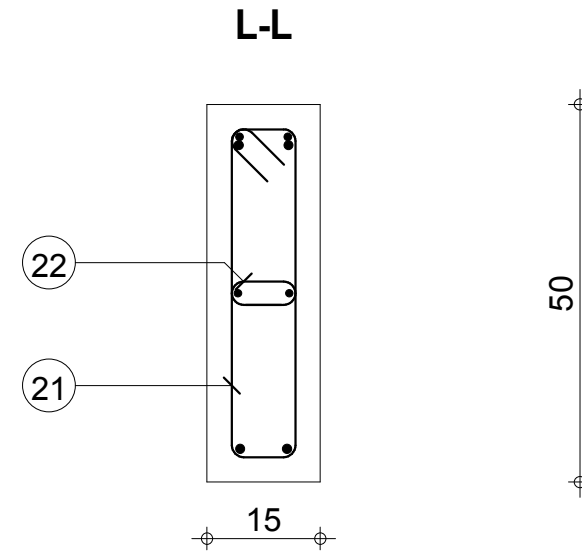
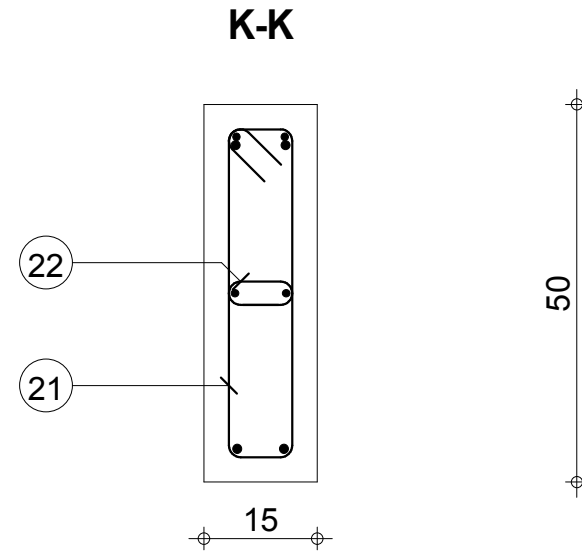
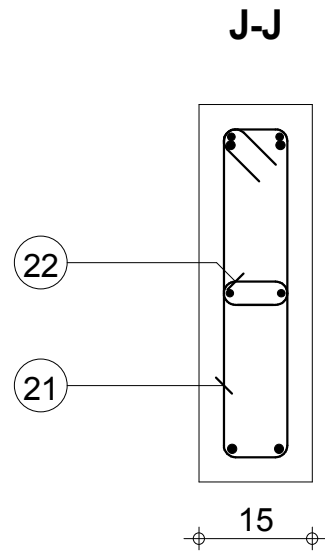
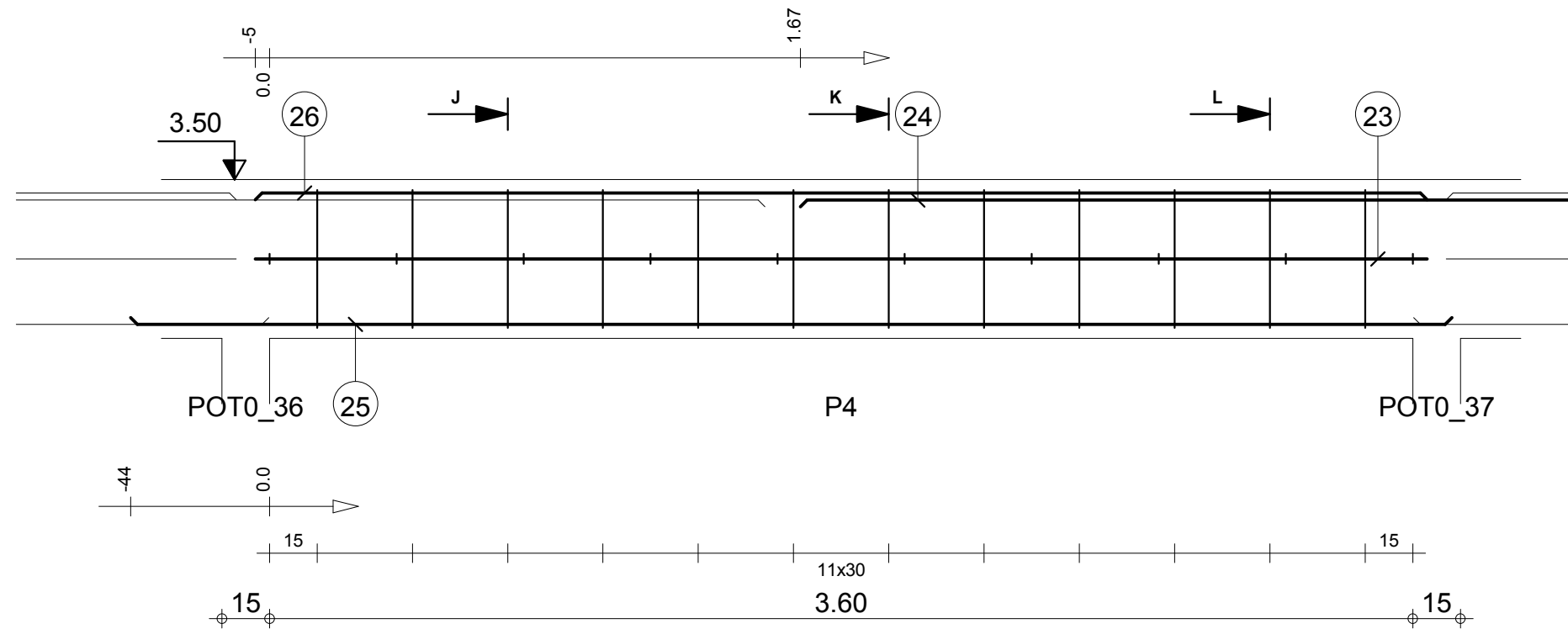
Page 3/7

Béton : BETON20 = 0.281 m3
Acier HA 400 = 8.24 kg
Acier HA 400 = 20.6 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 12HA 6 | l=1.18 | 31 | |
| 22 | 10HA 6 | l=25 | 00 | |
| 23 | 2HA 10 | l=3.69 | 00 | |
| 24 | 2HA 12 | l=3.66 | 00 | |
| 25 | 2HA 12 | l=4.16 | 00 | |
| 26 | 2HA 10 | l=3.69 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.B'K: P4
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

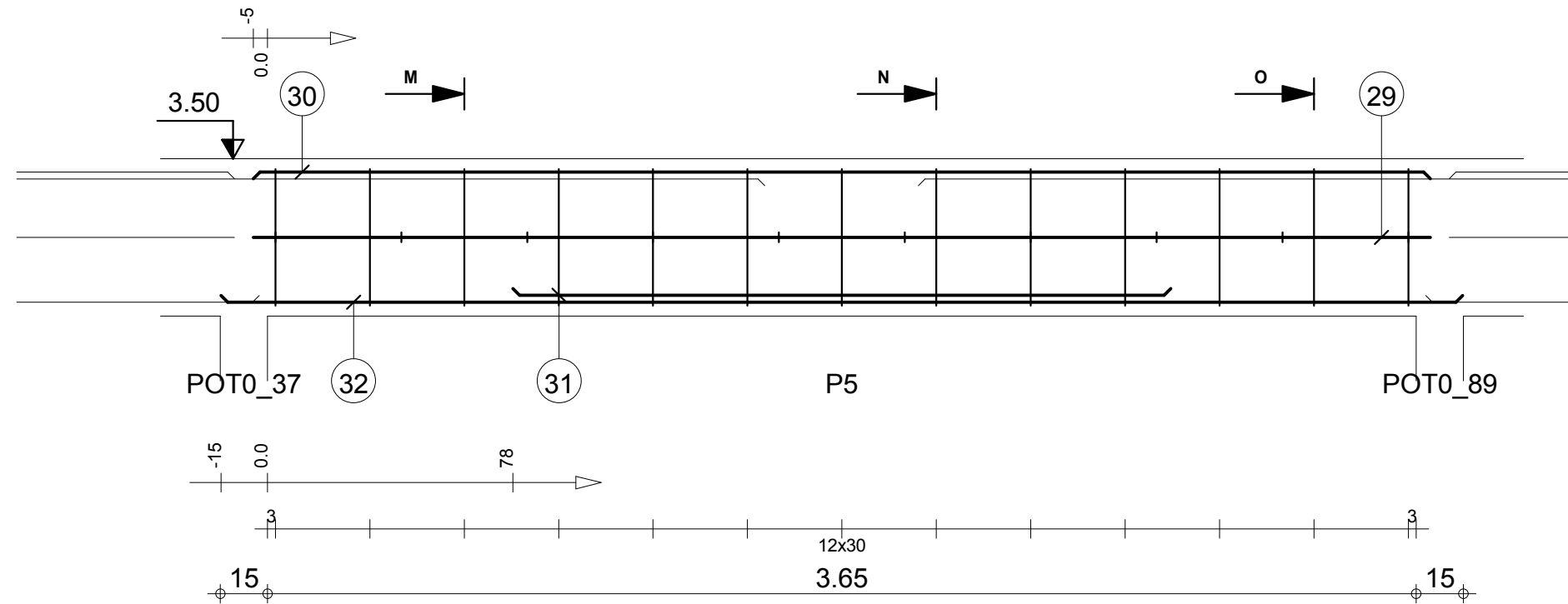
Page 4/7

Béton : BETON20 = 0.281 m3
Acier HA 400 = 8.24 kg
Acier HA 400 = 18.4 kg

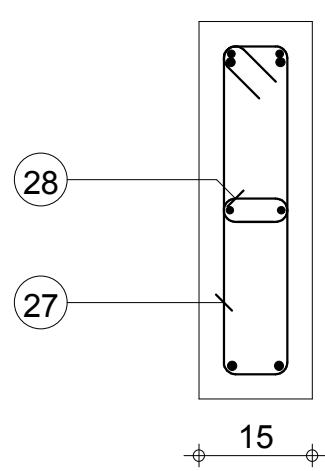
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MINHDU_BAMBOUTOS_POUTRES

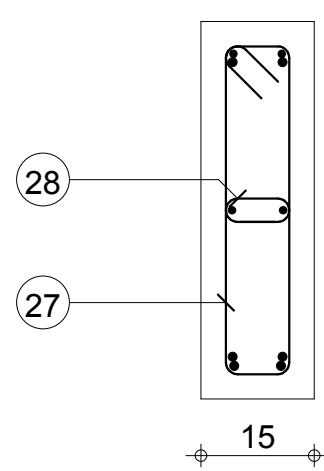
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 27 | 13HA 6 | l=1.18 | 31 | |
| 28 | 10HA 6 | l=25 | 00 | |
| 29 | 2HA 10 | l=3.74 | 00 | |
| 30 | 2HA 10 | l=3.74 | 00 | |
| 31 | 2HA 12 | l=2.09 | 00 | |
| 32 | 2HA 12 | l=3.95 | 00 | |



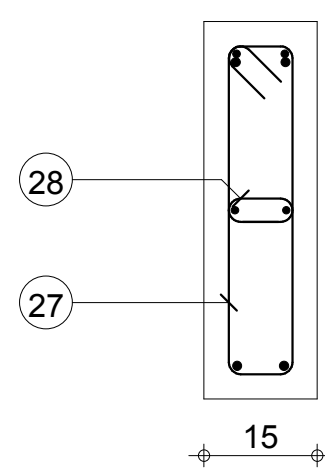
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 8.B'K: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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Béton : BETON20 = 0.285 m3

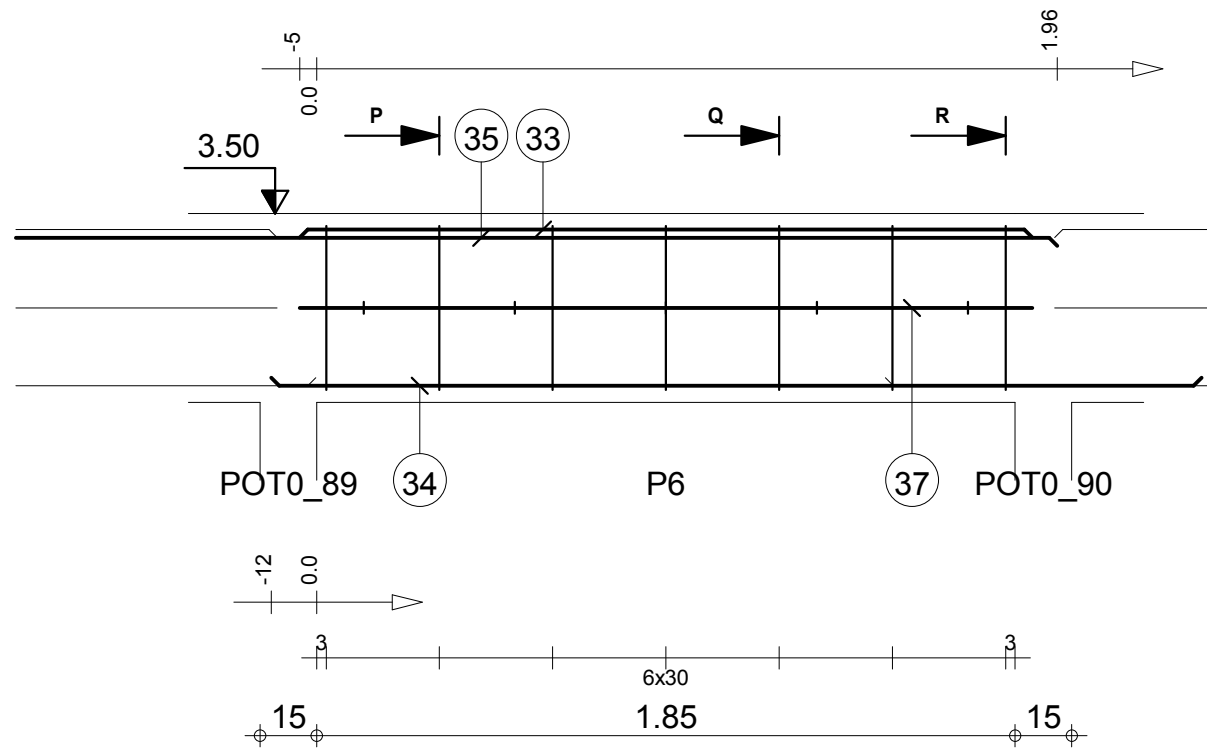
Acier HA 400 = 8.57 kg

Acier HA 400 = 15.3 kg

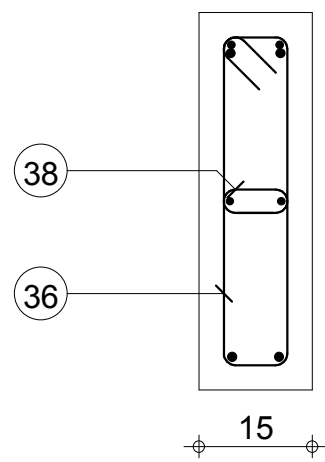
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MINHDU_BAMBOUTOS_POUTRES

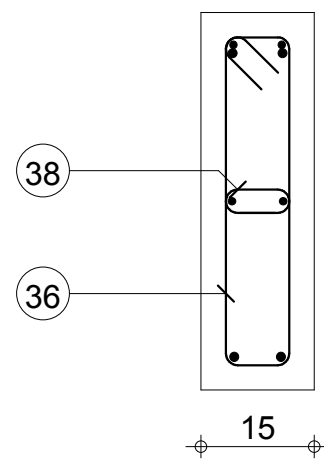
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 33 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 34 | 2HA 12 | l=2.46 | 00 | 2.46 |
| 35 | 2HA 12 | l=3.69 | 00 | 3.69 |
| 36 | 7HA 6 | l=1.18 | 31 | |
| 37 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 38 | 5HA 6 | l=25 | 00 | |



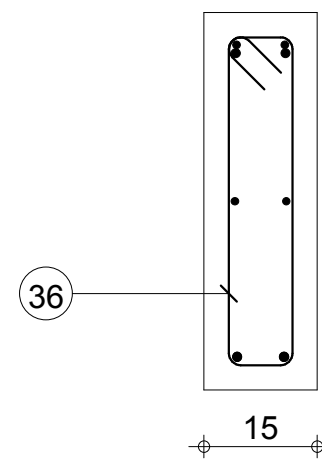
P-P



Q-Q



R-R



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 8.B'K: P6

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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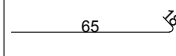
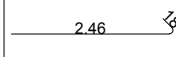
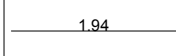
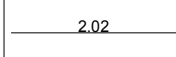
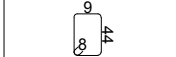
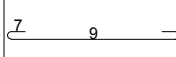
Béton : BETON20 = 0.15 m3

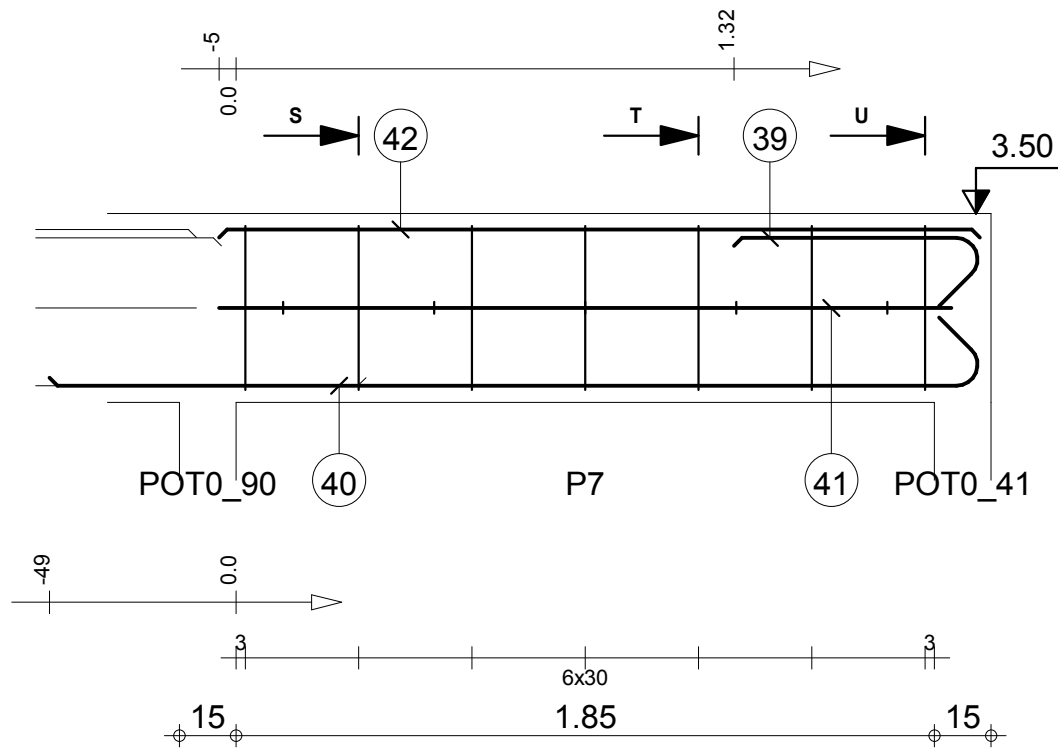
Acier HA 400 = 4.5 kg

Acier HA 400 = 13.3 kg

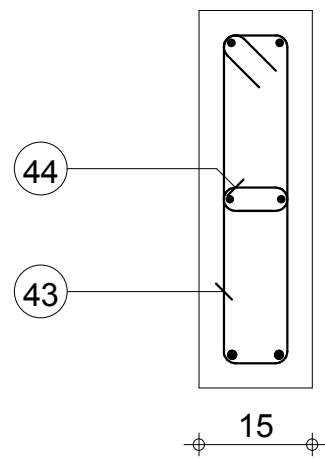
0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 39 | 2HA 12 | l=84 | 00  |
| 40 | 2HA 12 | l=2.65 | 00  |
| 41 | 2HA 10 | l=1.94 | 00  |
| 42 | 2HA 10 | l=2.02 | 00  |
| 43 | 7HA 6 | l=1.18 | 31  |
| 44 | 5HA 6 | l=25 | 00  |

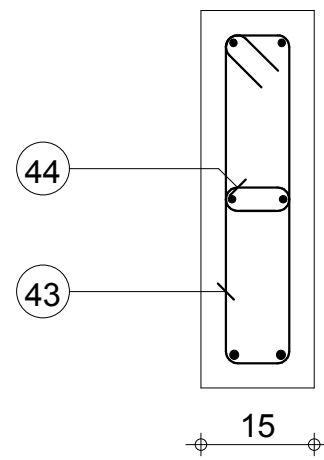


S-S



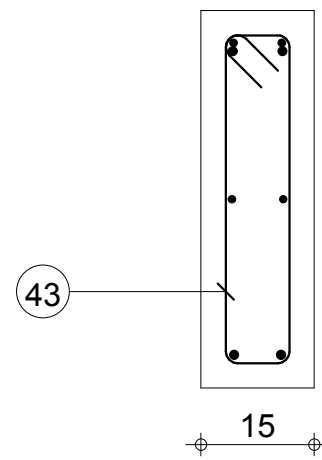
50

T-T



50

U-U



50

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 8.B'K: P7

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 7/7

Béton : BETON20 = 0.156 m3

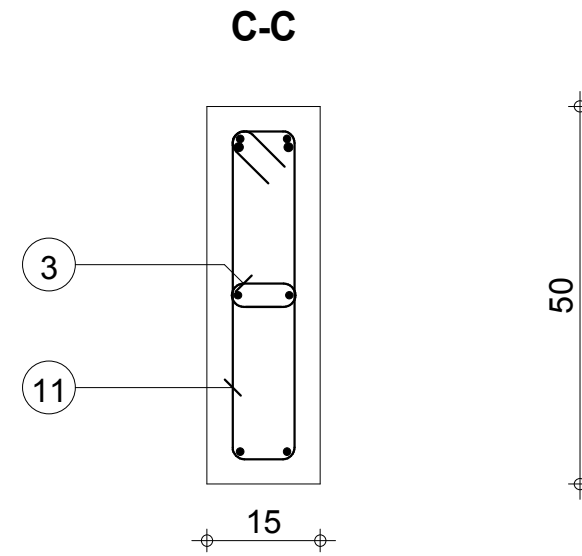
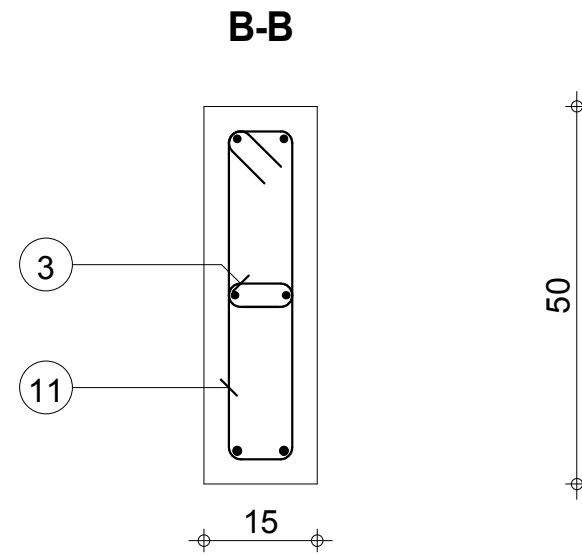
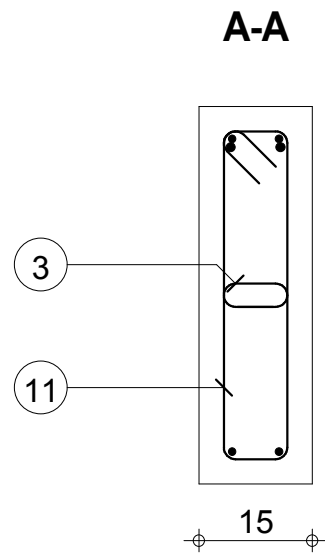
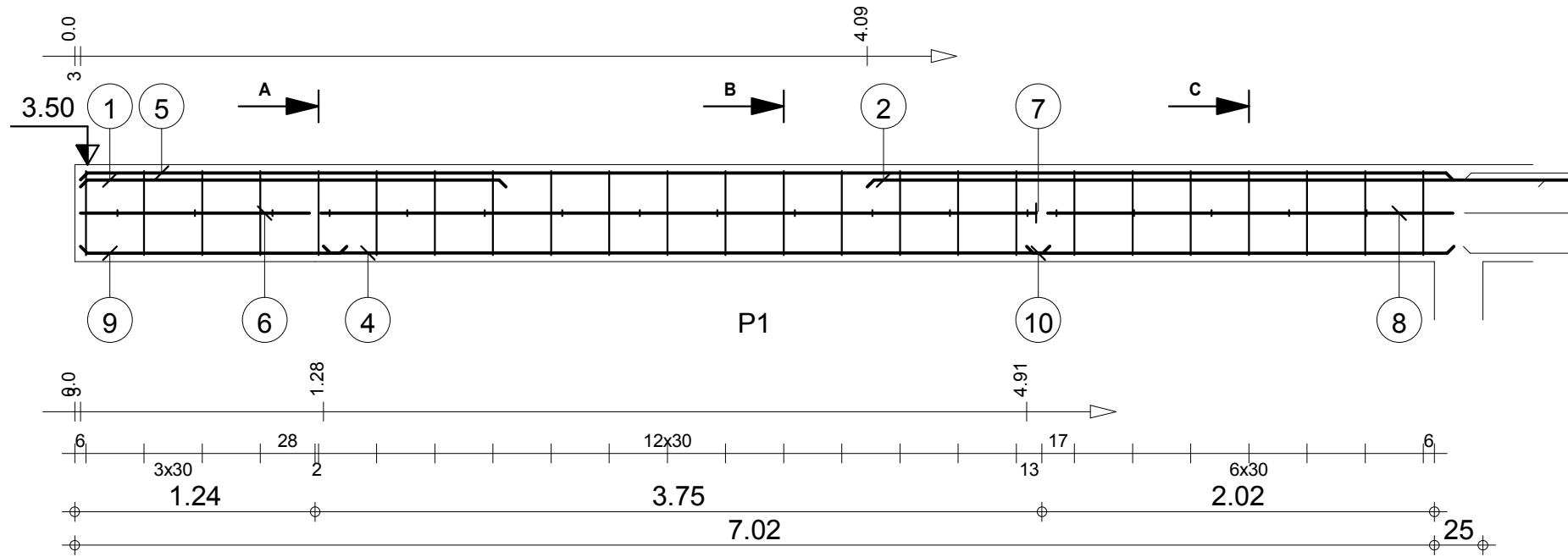
Acier HA 400 = 4.5 kg

Acier HA 400 = 8.69 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|---------|-------|------|
| ① | 2HA 12 | l=2.19 | 00 | 2.19 |
| ② | 2HA 12 | l=4.28 | 00 | 4.28 |
| ③ | 3*6HA 6 | l=25 | 00 | 9 |
| ④ | 2HA 12 | l=3.75 | 00 | 3.75 |
| ⑤ | 2HA 10 | l=7.08 | 00 | 7.08 |
| ⑥ | 2HA 10 | l=1.18 | 00 | 1.18 |
| ⑦ | 2HA 10 | l=3.69 | 00 | 3.69 |
| ⑧ | 2HA 10 | l=2.09 | 00 | 2.09 |
| ⑨ | 2HA 10 | l=1.37 | 00 | 1.37 |
| ⑩ | 2HA 10 | l=2.21 | 00 | 2.20 |
| ⑪ | 3*8HA 6 | l=1.18* | 31 | 4 |



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.C'K: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.535 m3

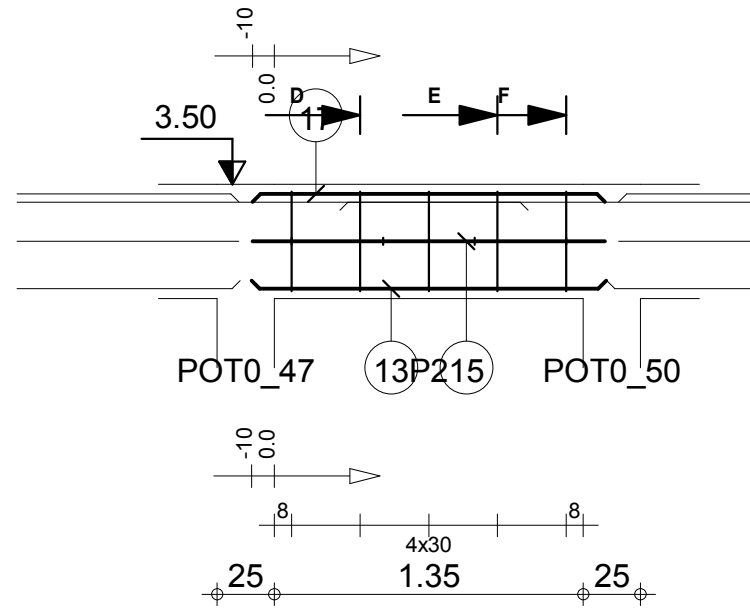
Acier HA 400 = 15.8 kg

Acier HA 400 = 31.3 kg

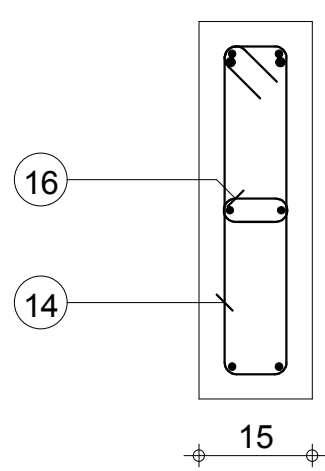
0

MINHDU_BAMBOUTOS_POUTRES

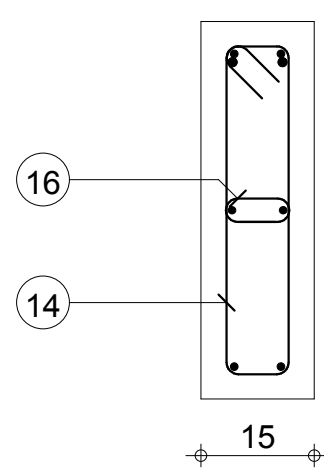
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 10 | l=1.55 | 00 | 1.55 |
| 14 | 5HA 6 | l=1.17 | 31 | |
| 15 | 2HA 10 | l=1.54 | 00 | 1.54 |
| 16 | 4HA 6 | l=25 | 00 | |
| 17 | 2HA 10 | l=1.54 | 00 | 1.54 |



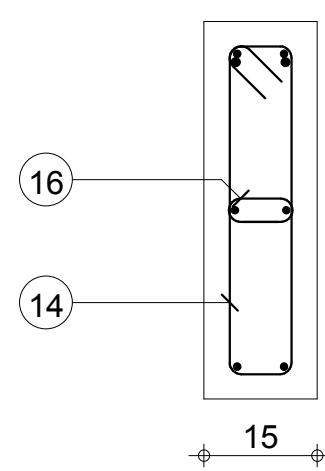
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.C'K: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5


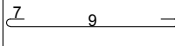
Béton : BETON20 = 0.12 m3

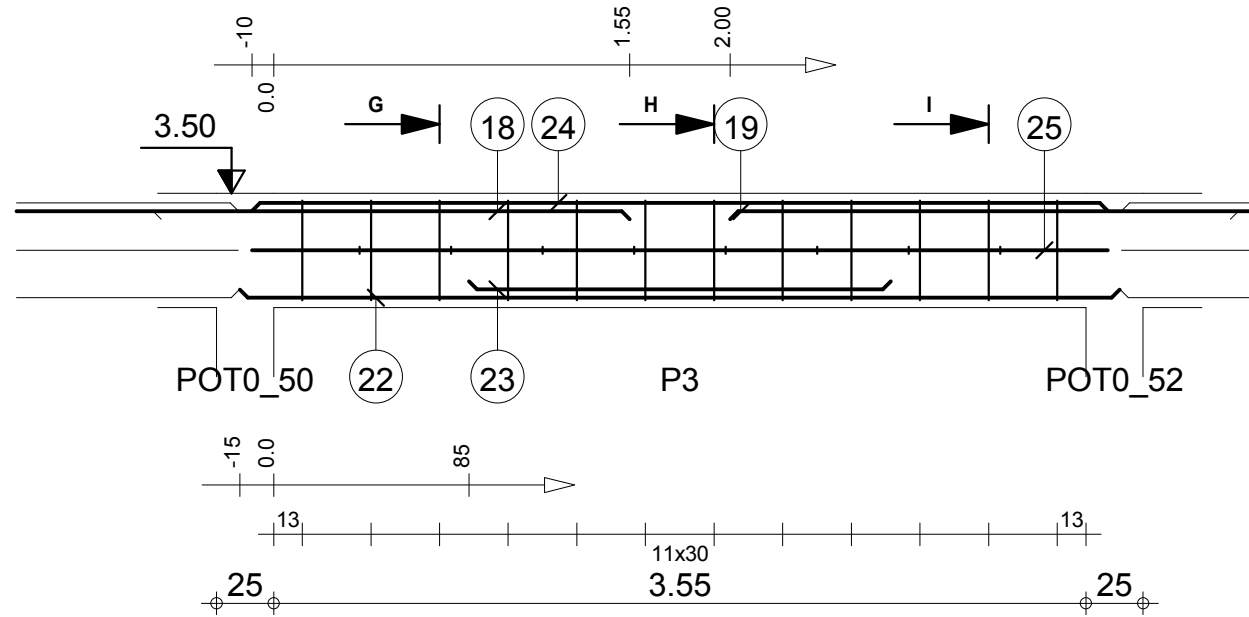
Acier HA 400 = 3.42 kg

Acier HA 400 = 3.81 kg

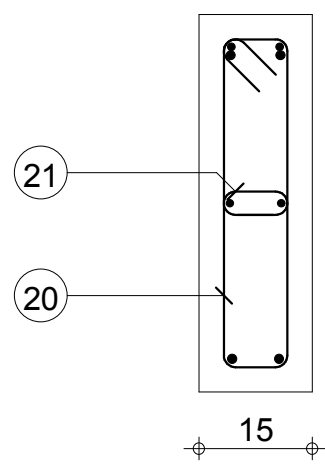
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MINHDU_BAMBOUTOS_POUTRES

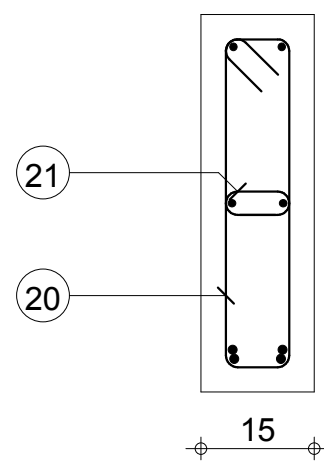
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 18 | 2HA 12 | l=2.87 | 00 | 2.87 |
| 19 | 2HA 12 | l=3.14 | 00 | 3.14 |
| 20 | 12HA 6 | l=1.18 | 31 |  |
| 21 | 8HA 6 | l=25 | 00 |  |
| 22 | 2HA 12 | l=3.85 | 00 | 3.84 |
| 23 | 2HA 12 | l=1.84 | 00 | 1.84 |
| 24 | 2HA 10 | l=3.74 | 00 | 3.74 |
| 25 | 2HA 10 | l=3.74 | 00 | 3.74 |



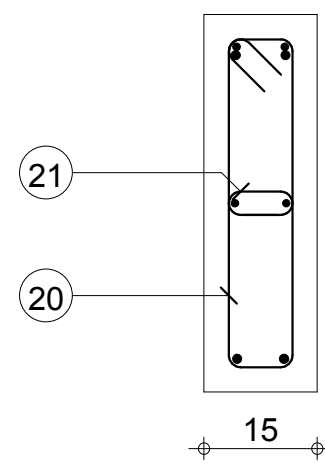
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.C'K: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5


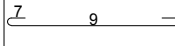
Béton : BETON20 = 0.285 m3

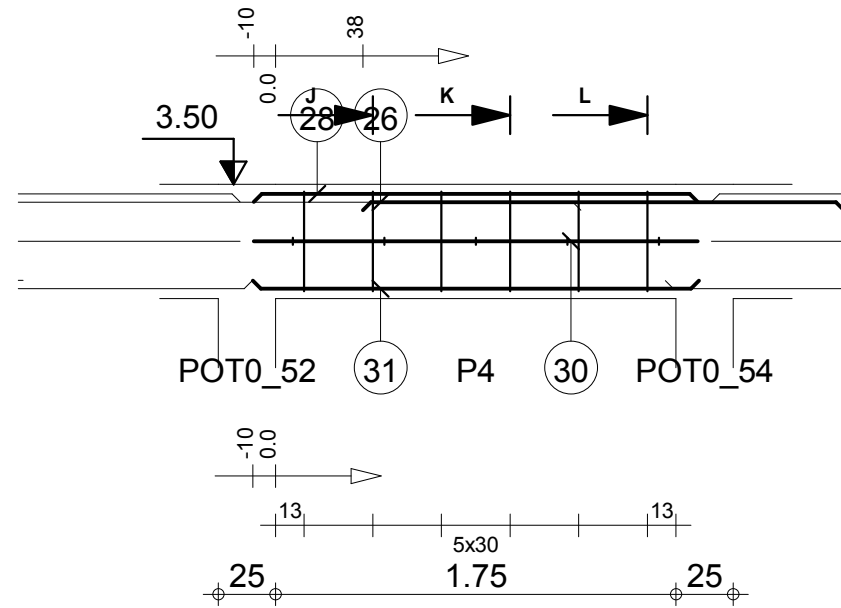
Acier HA 400 = 8.19 kg

Acier HA 400 = 25.4 kg

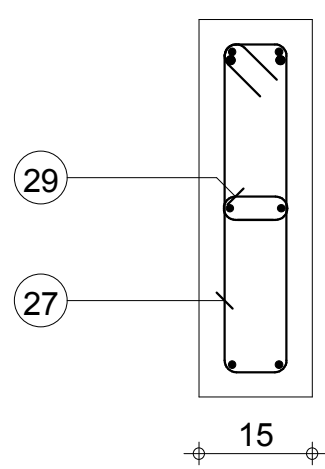
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MINHDU_BAMBOUTOS_POUTRES

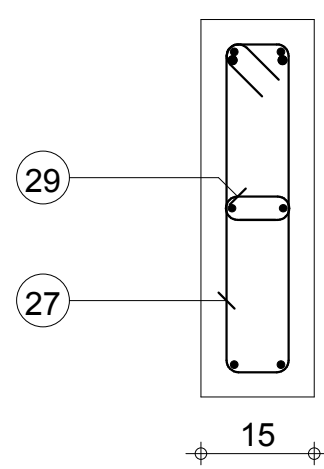
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 26 | 2HA 12 | l=2.10 | 00 | 2.10 |
| 27 | 6HA 6 | l=1.17 | 31 |  |
| 28 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 29 | 5HA 6 | l=25 | 00 |  |
| 30 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 31 | 2HA 10 | l=1.95 | 00 | 1.95 |



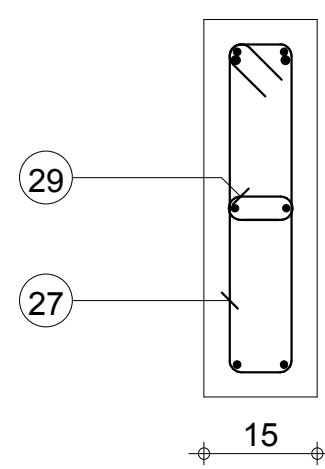
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.C'K: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.15 m3

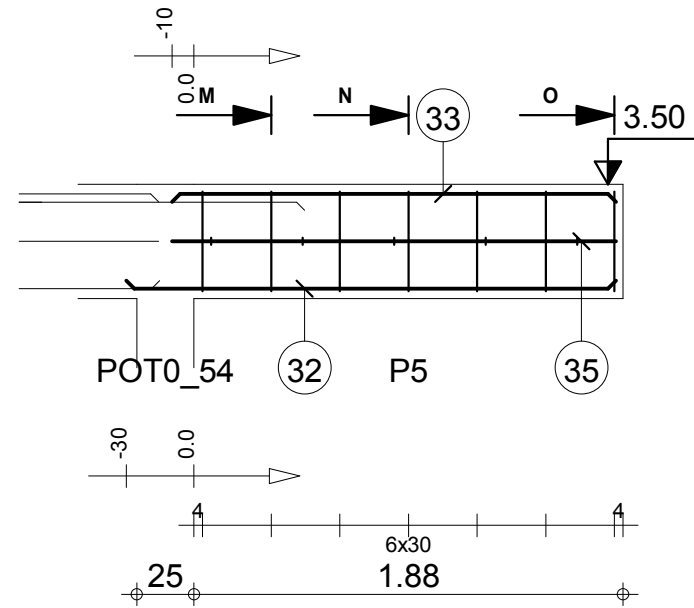
Acier HA 400 = 4.23 kg

Acier HA 400 = 8.53 kg

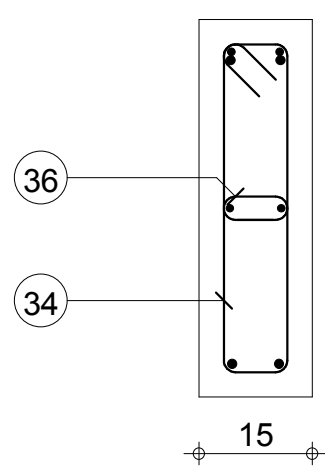
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MINHDU_BAMBOUTOS_POUTRES

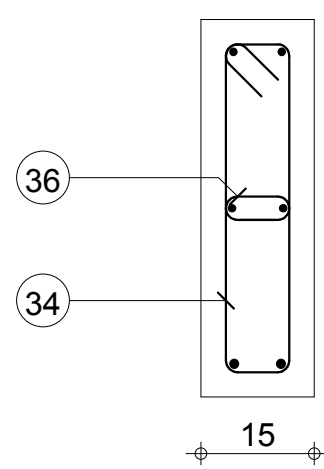
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 32 | 2HA 12 | l=2.14 | 00 | 2.14 |
| 33 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 34 | 7HA 6 | l=1.18 | 31 | |
| 35 | 2HA 10 | l=1.94 | 00 | 1.94 |
| 36 | 5HA 6 | l=25 | 00 | |



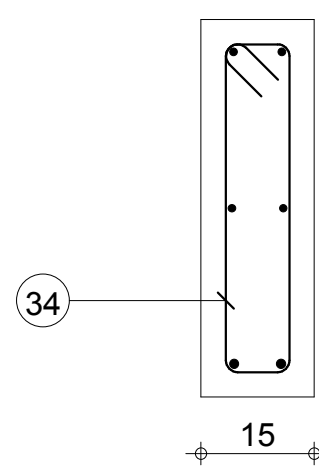
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.C'K: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.15 m3

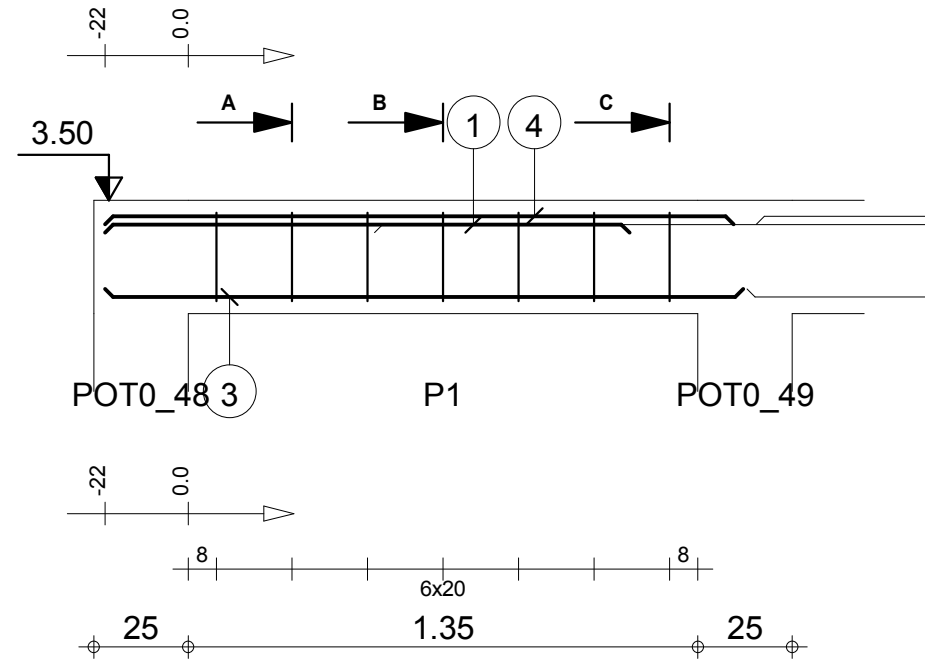
Acier HA 400 = 4.5 kg

Acier HA 400 = 6.19 kg

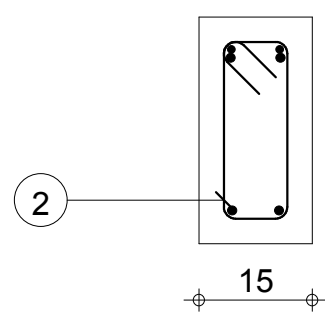
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MINHDU_BAMBOUTOS_POUTRES

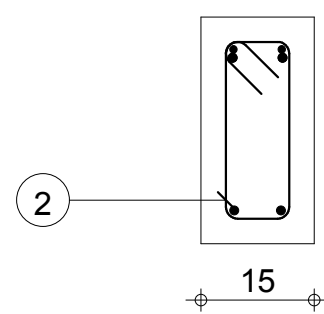
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.39 | 00 | 1.39 |
| ② | 7HA 6 | l=78 | 31 | |
| ③ | 2HA 12 | l=1.69 | 00 | 1.69 |
| ④ | 2HA 10 | l=1.67 | 00 | 1.67 |



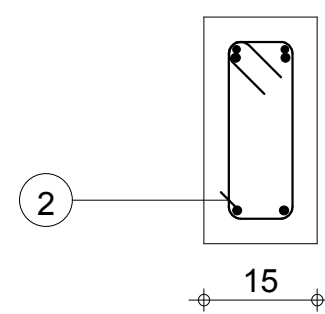
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 10.GM: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.0776 m3

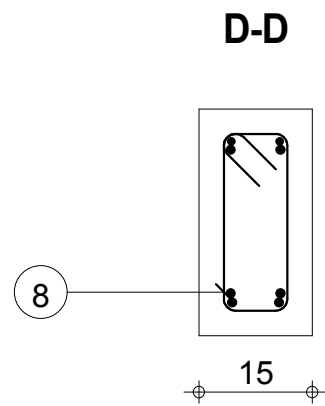
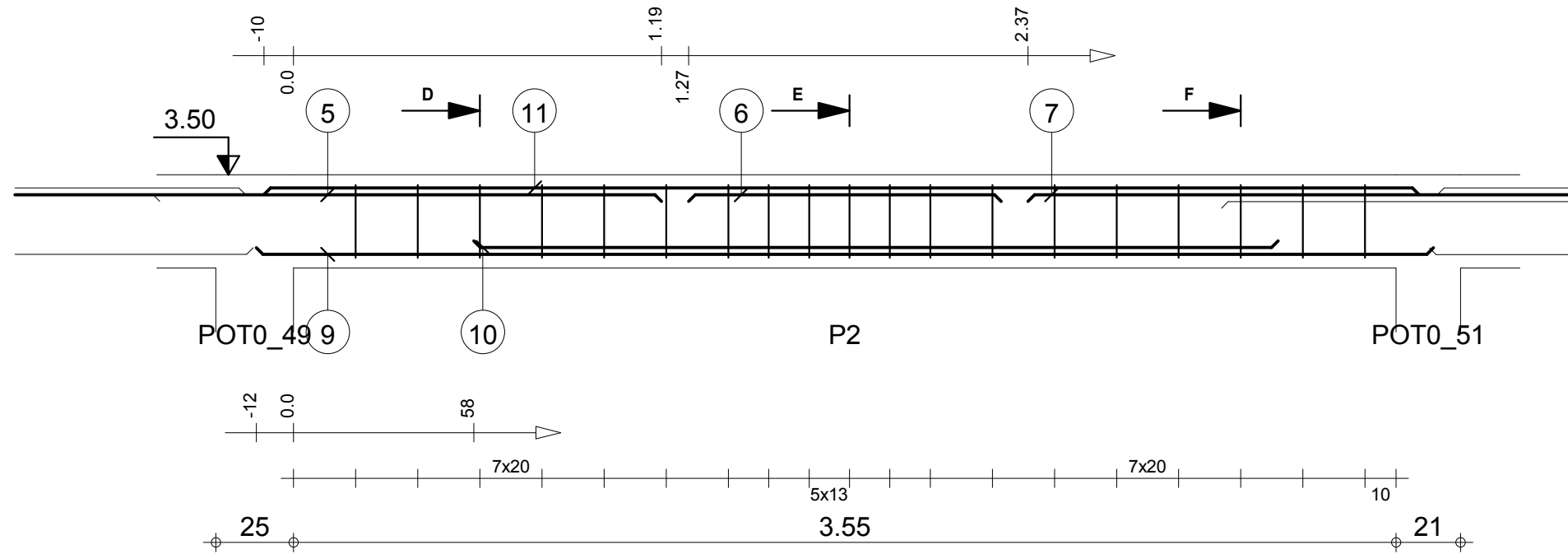
Acier HA 400 = 1.21 kg

Acier HA 400 = 7.52 kg

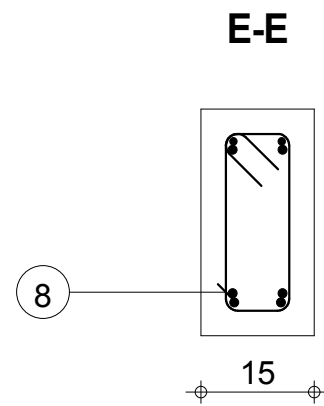
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MINHDU_BAMBOUTOS_POUTRES

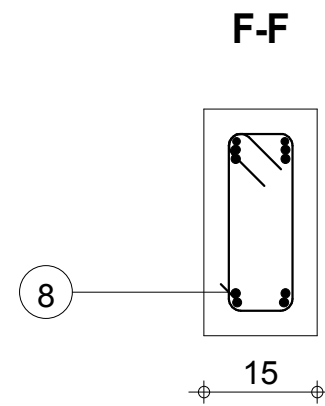
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| 5 | 2HA 12 | l=2.29 | 00 2.29 |
| 6 | 2HA 12 | l=1.01 | 00 1.01 |
| 7 | 2HA 12 | l=2.45 | 00 2.45 |
| 8 | 19HA 6 | l=78 | 31 |
| 9 | 2HA 12 | l=3.79 | 00 3.79 |
| 10 | 2HA 12 | l=2.59 | 00 2.59 |
| 11 | 2HA 10 | l=3.72 | 00 3.72 |



30



30



30

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 10.GM: P2
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

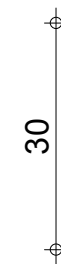
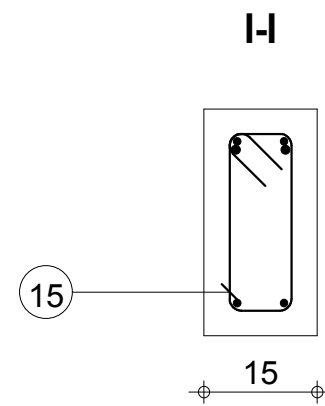
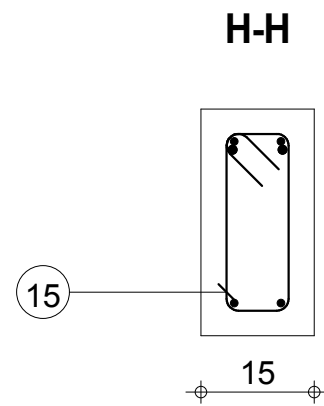
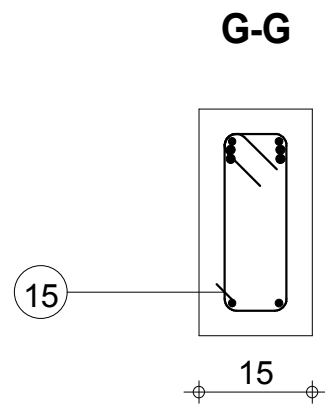
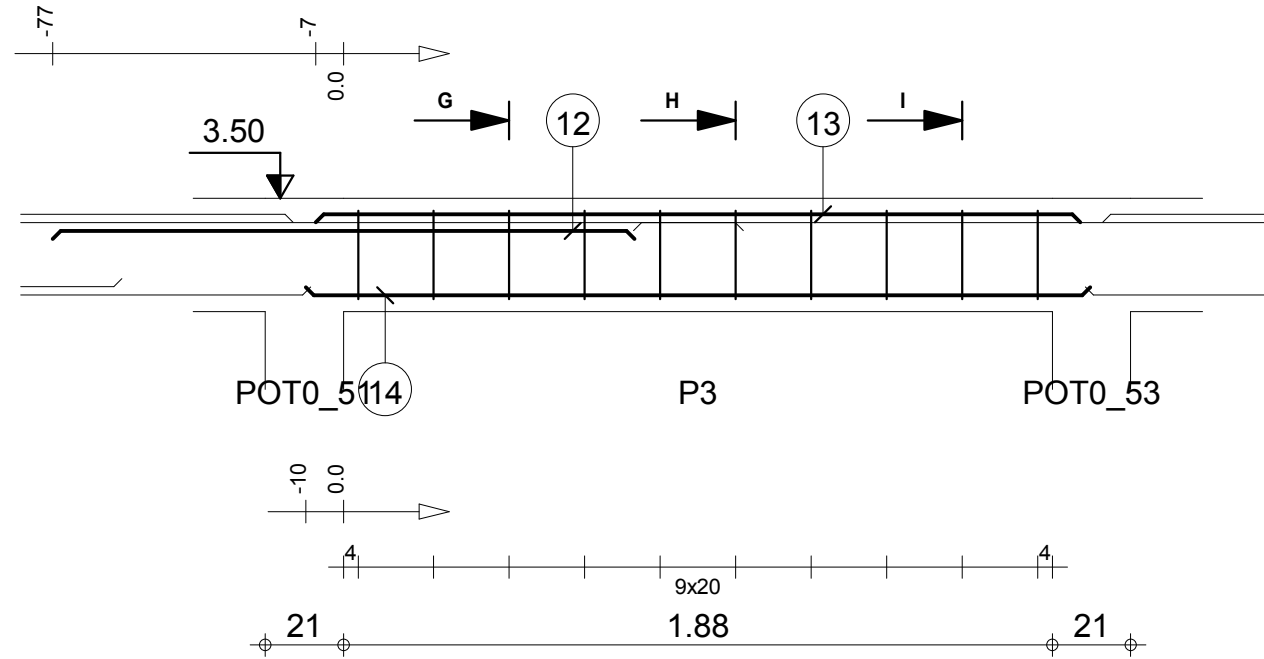
Page 2/4

Béton : BETON20 = 0.17 m3
Acier HA 400 = 3.28 kg
Acier HA 400 = 26.1 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 12 | 2HA 12 | l=1.54 | 00 | 1.54 |
| 13 | 2HA 10 | l=2.02 | 00 | 2.03 |
| 14 | 2HA 10 | l=2.08 | 00 | 2.08 |
| 15 | 10HA 6 | l=77 | 31 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 10.GM: P3

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.0938 m3

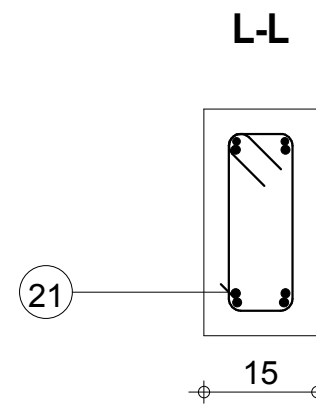
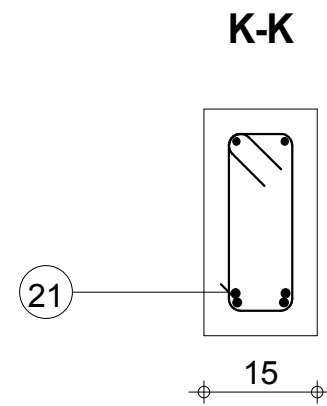
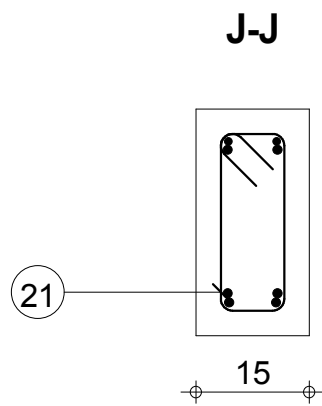
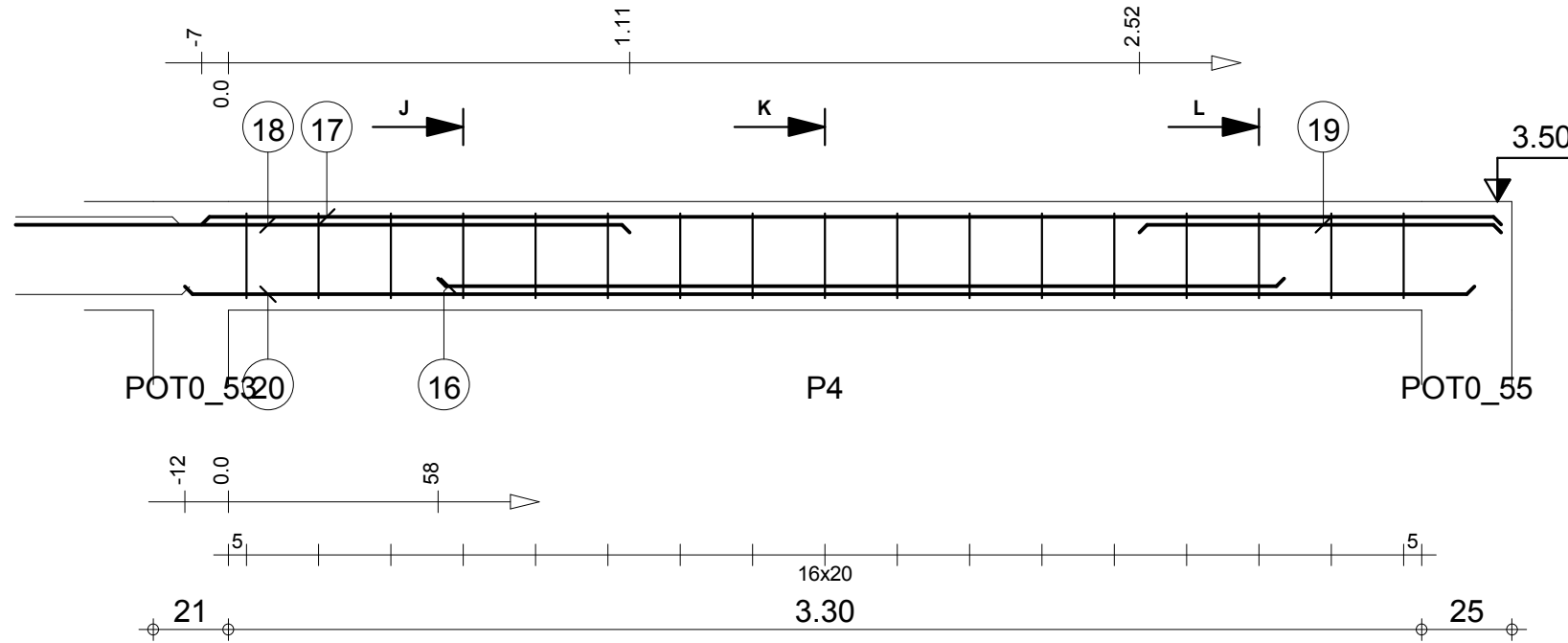
Acier HA 400 = 1.72 kg

Acier HA 400 = 7.79 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| 16 | 2HA 12 | l=2.34 | 00 2.34 |
| 17 | 2HA 10 | l=3.59 | 00 3.59 |
| 18 | 2HA 12 | l=2.43 | 00 2.43 |
| 19 | 2HA 12 | l=1.00 | 00 1.00 |
| 20 | 2HA 12 | l=3.57 | 00 3.57 |
| 21 | 17HA 6 | l=78 | 31 8 24 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 10.GM: P4

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.164 m3

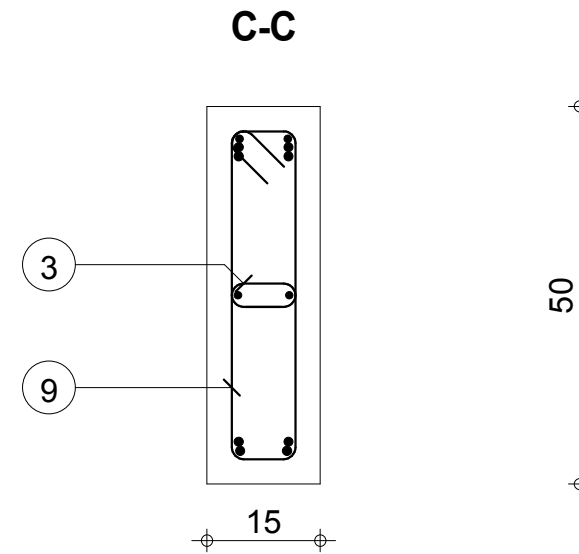
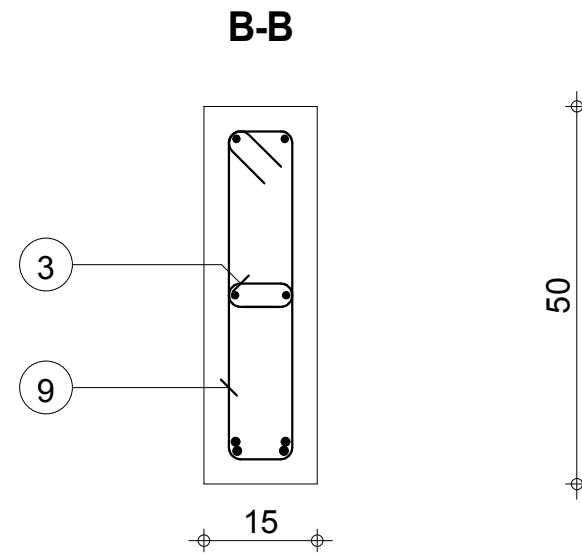
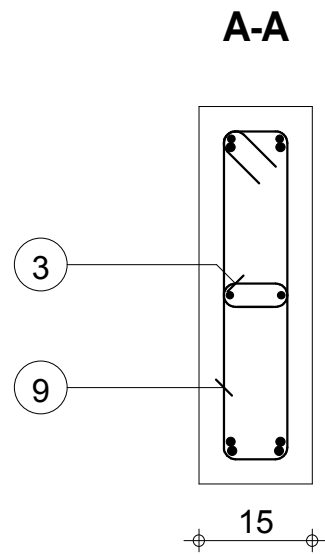
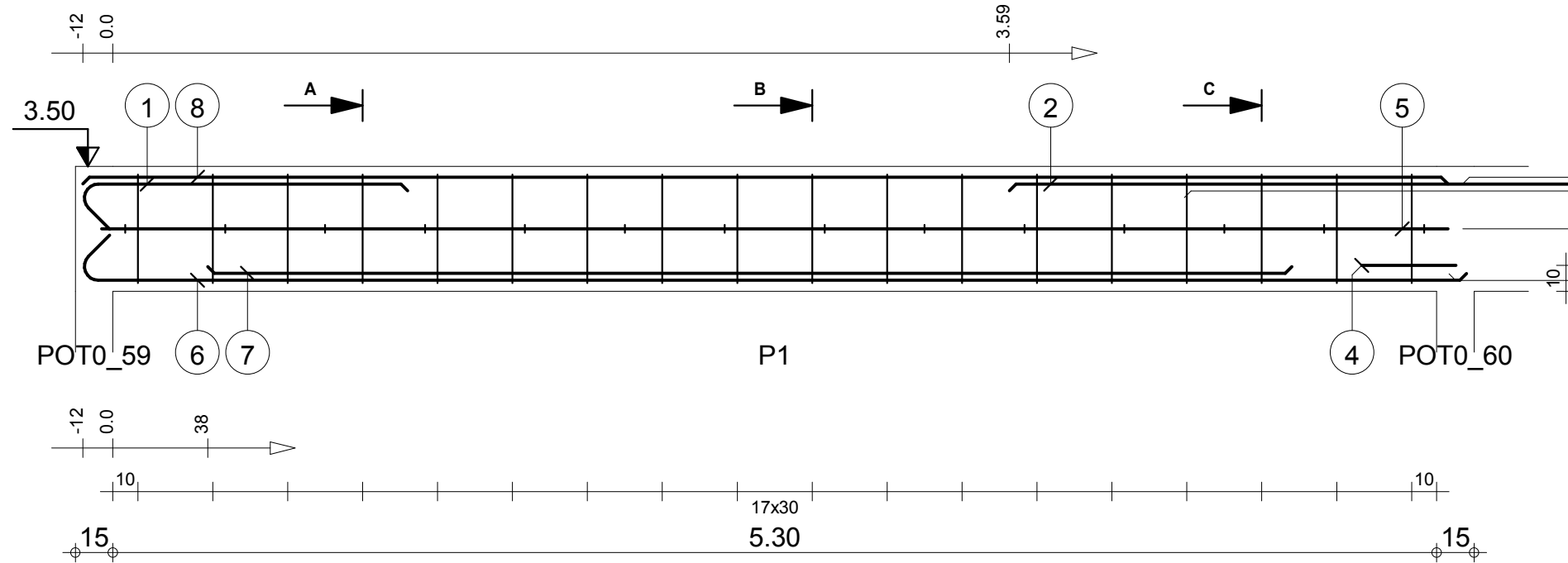
Acier HA 400 = 2.94 kg

Acier HA 400 = 21 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.49 | 00 | |
| ② | 2HA 12 | l=3.21 | 00 | |
| ③ | 14HA 6 | l=25 | 00 | |
| ④ | 1HA 6 | l=81 | 21 | |
| ⑤ | 2HA 10 | l=5.39 | 00 | |
| ⑥ | 2HA 12 | l=5.73 | 00 | |
| ⑦ | 2HA 12 | l=4.34 | 00 | |
| ⑧ | 2HA 10 | l=5.46 | 00 | |
| ⑨ | 18HA 6 | l=1.18 | 31 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 11.GM: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.414 m3

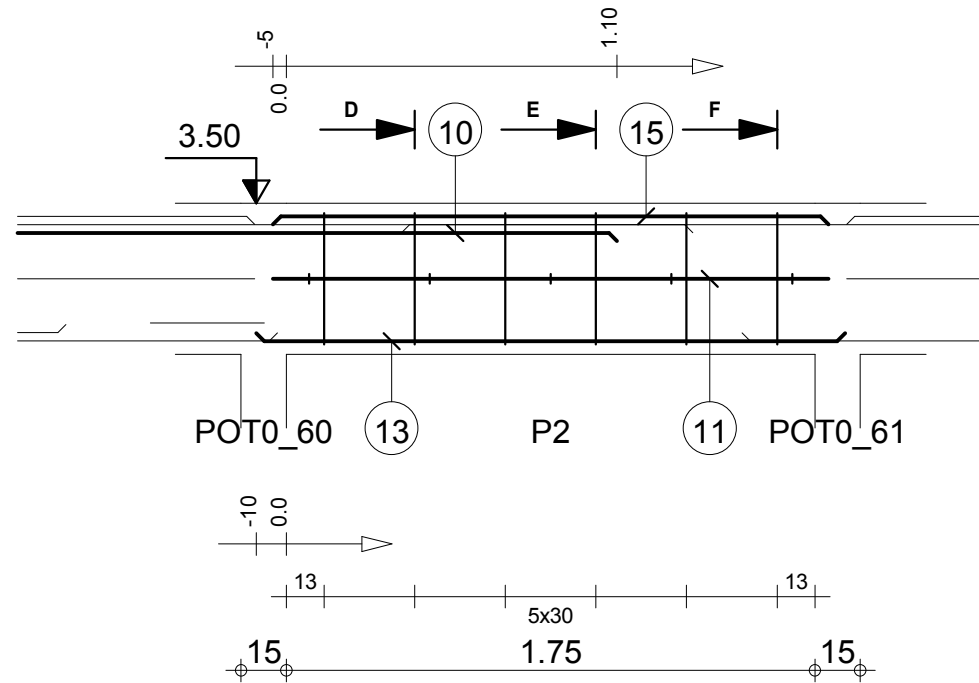
Acier HA 400 = 12.3 kg

Acier HA 400 = 33 kg

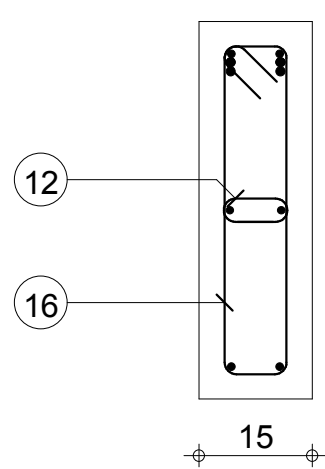
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MINHDU_BAMBOUTOS_POUTRES

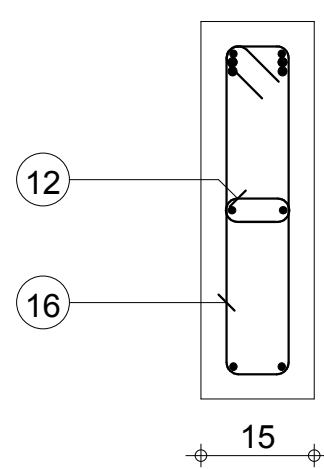
| Pos. | Armature | Code | Forme |
|------|----------|---------|-------|
| ⑩ | 2HA 12 | l=2.25 | 00 |
| ⑪ | 2HA 10 | l=1.84 | 00 |
| ⑫ | 5HA 6 | l=25 | 00 |
| ⑬ | 2HA 10 | l=1.95 | 00 |
| ⑮ | 2HA 10 | l=1.84 | 00 |
| ⑯ | 6HA 6 | l=1.18* | 31 |



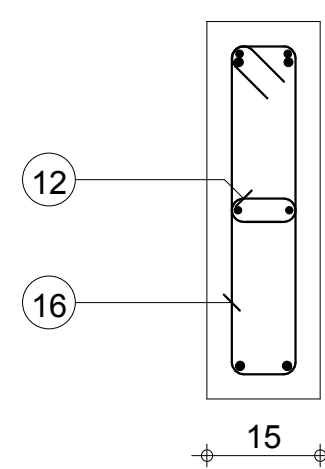
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 11.GM: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.142 m3

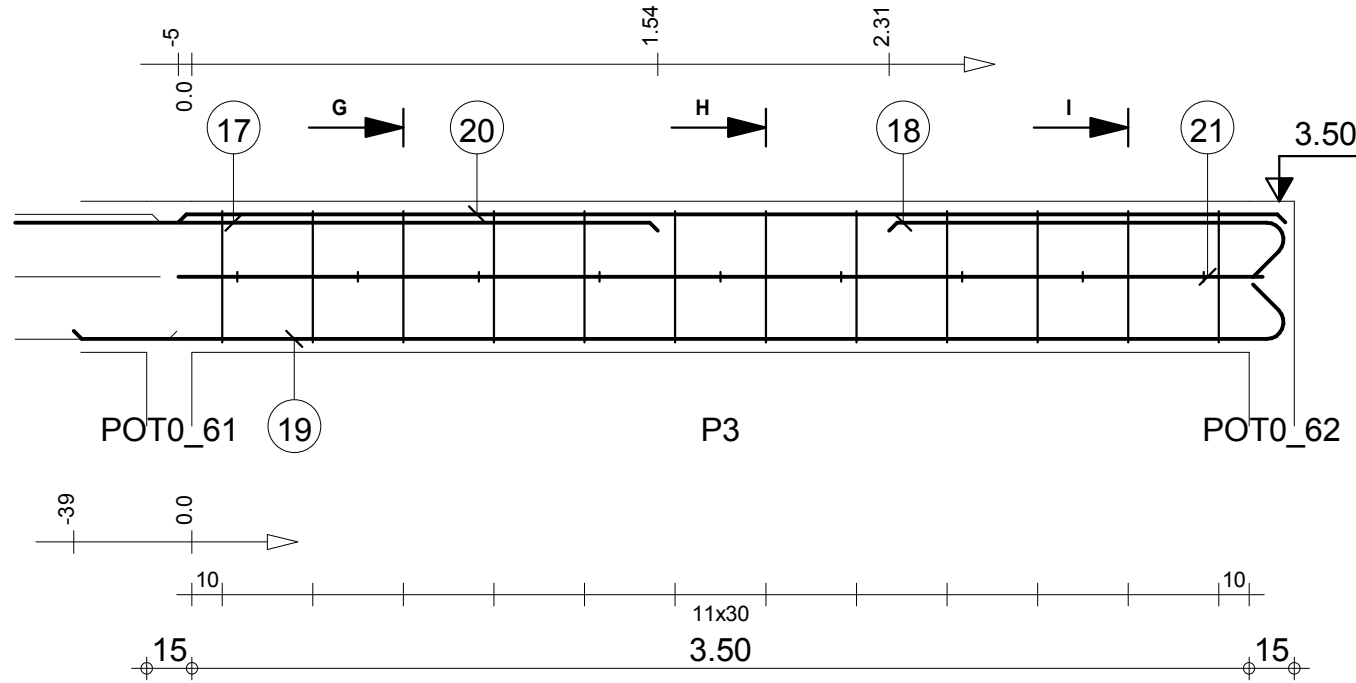
Acier HA 400 = 4.11 kg

Acier HA 400 = 8.68 kg

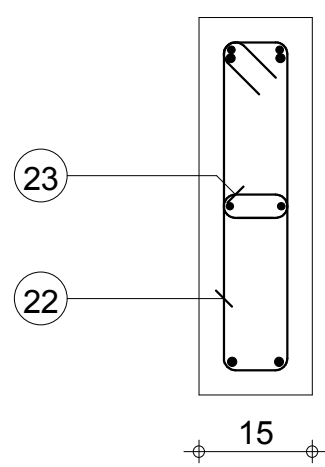
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MINHDU_BAMBOUTOS_POUTRES

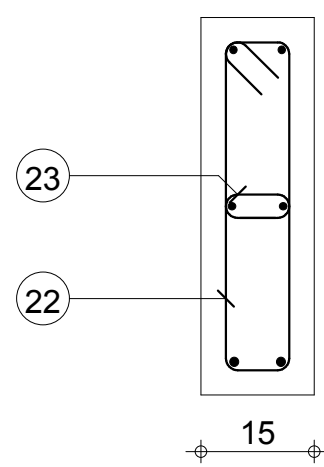
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 17 | 2HA 12 | l=3.06 | 00 |
| 18 | 2HA 12 | l=1.50 | 00 |
| 19 | 2HA 12 | l=4.20 | 00 |
| 20 | 2HA 10 | l=3.67 | 00 |
| 21 | 2HA 10 | l=3.59 | 00 |
| 22 | 12HA 6 | l=1.18 | 31 |
| 23 | 9HA 6 | l=25 | 00 |



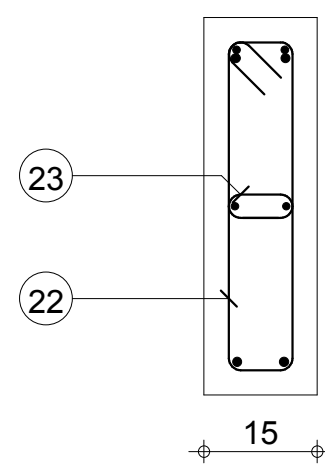
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 11.GM: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

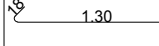
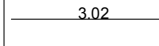
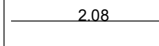
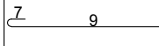
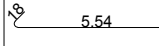
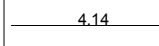
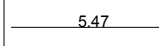

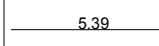
Béton : BETON20 = 0.279 m3

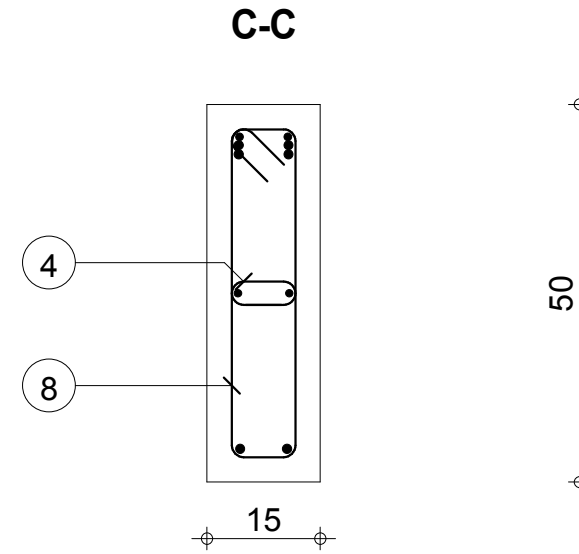
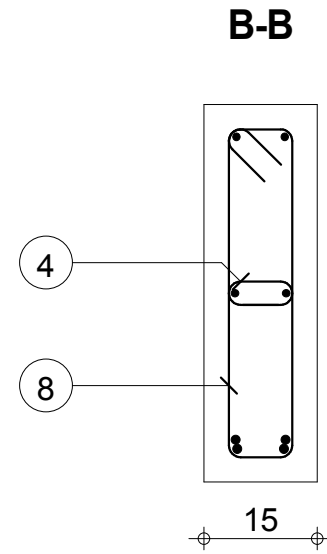
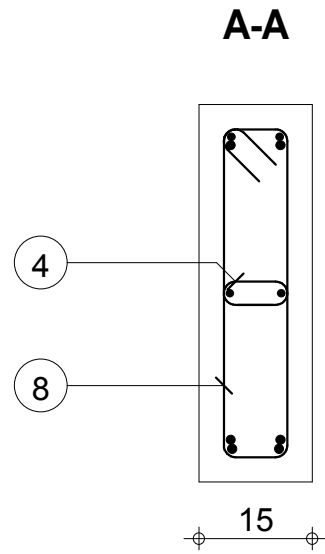
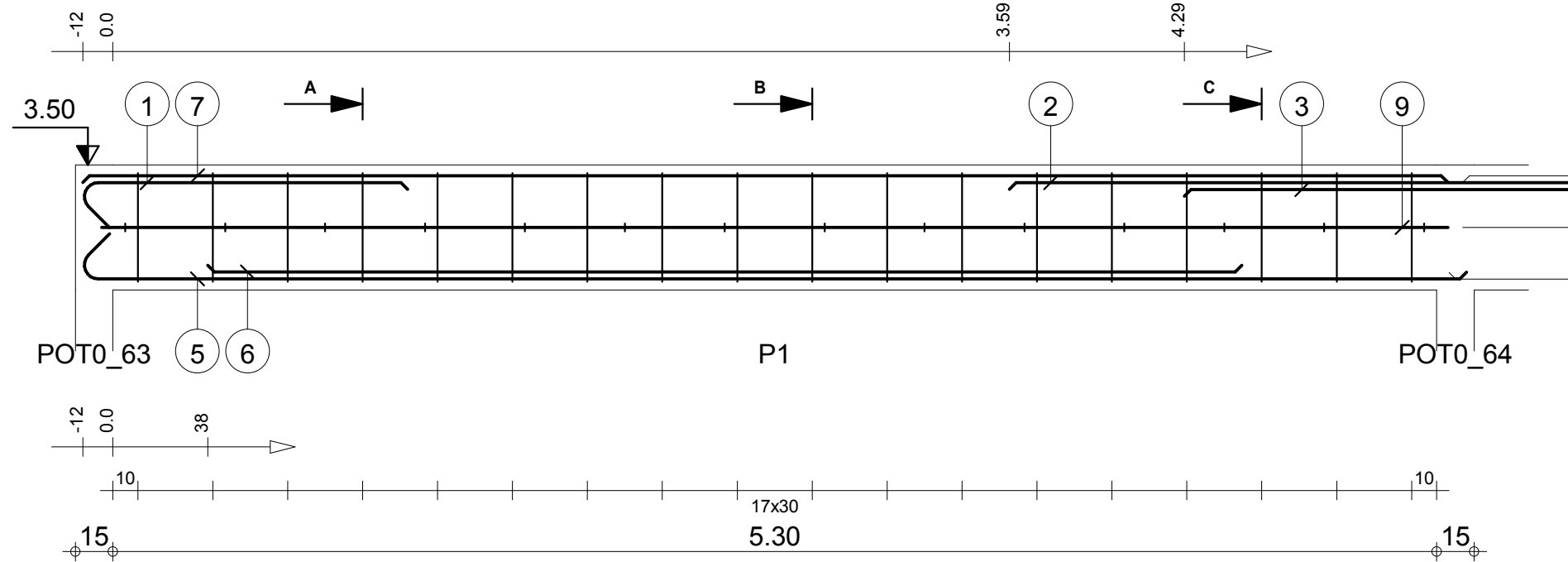
Acier HA 400 = 8.06 kg

Acier HA 400 = 20.1 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| ① | 2HA 12 | l=1.49 | 00  |
| ② | 2HA 12 | l=3.02 | 00  |
| ③ | 2HA 12 | l=2.09 | 00  |
| ④ | 14HA 6 | l=25 | 00  |
| ⑤ | 2HA 12 | l=5.73 | 00  |
| ⑥ | 2HA 12 | l=4.14 | 00  |
| ⑦ | 2HA 10 | l=5.46 | 00  |
| ⑧ | 18HA 6 | l=1.18 | 31  |
| ⑨ | 2HA 10 | l=5.39 | 00  |



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

POU 12.GM: P1
Section 15x50


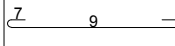
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

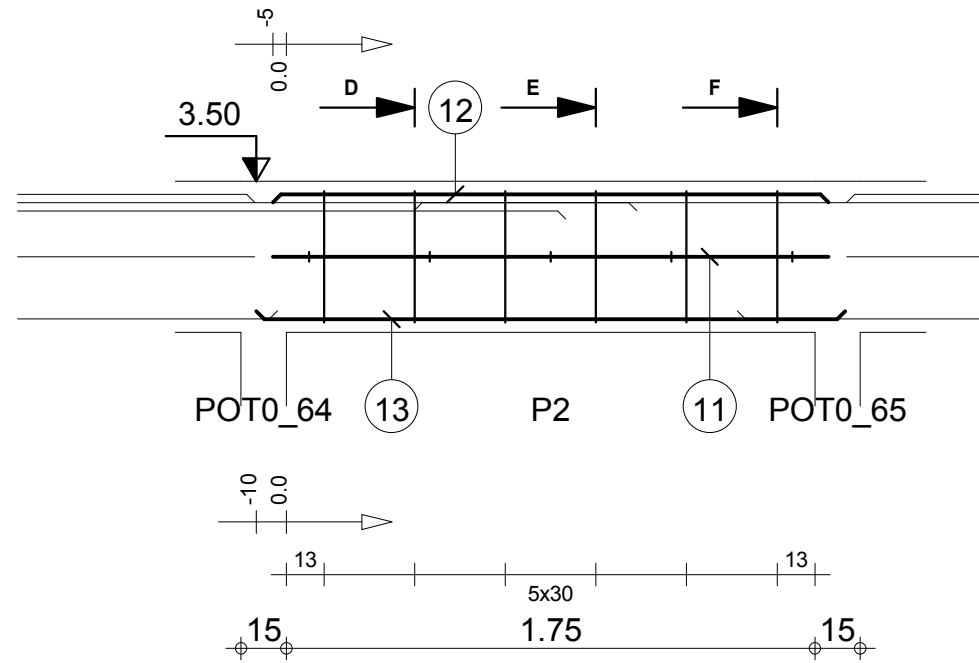
Page 1/3

Béton : BETON20 = 0.414 m3
Acier HA 400 = 12.1 kg
Acier HA 400 = 36 kg

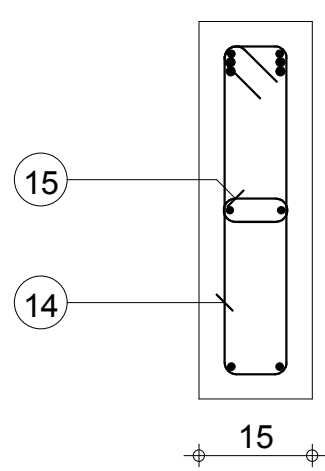
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MINHDU_BAMBOUTOS_POUTRES

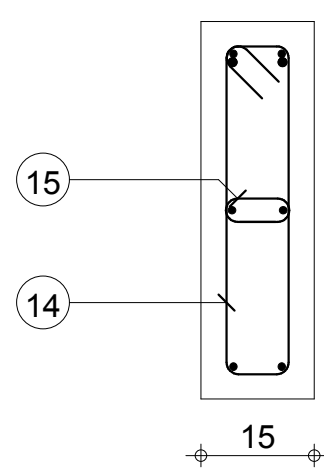
| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|---|
| 11 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 12 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 13 | 2HA 10 | l=1.95 | 00 | 1.95 |
| 14 | 6HA 6 | l=1.18* | 31 |  |
| 15 | 5HA 6 | l=25 | 00 |  |



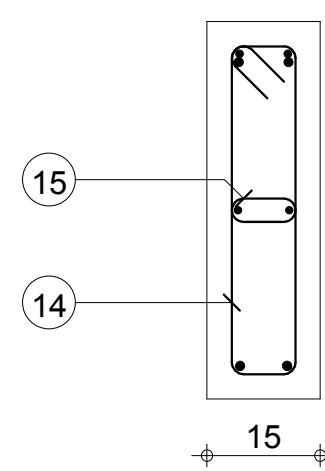
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 12.GM: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.142 m3

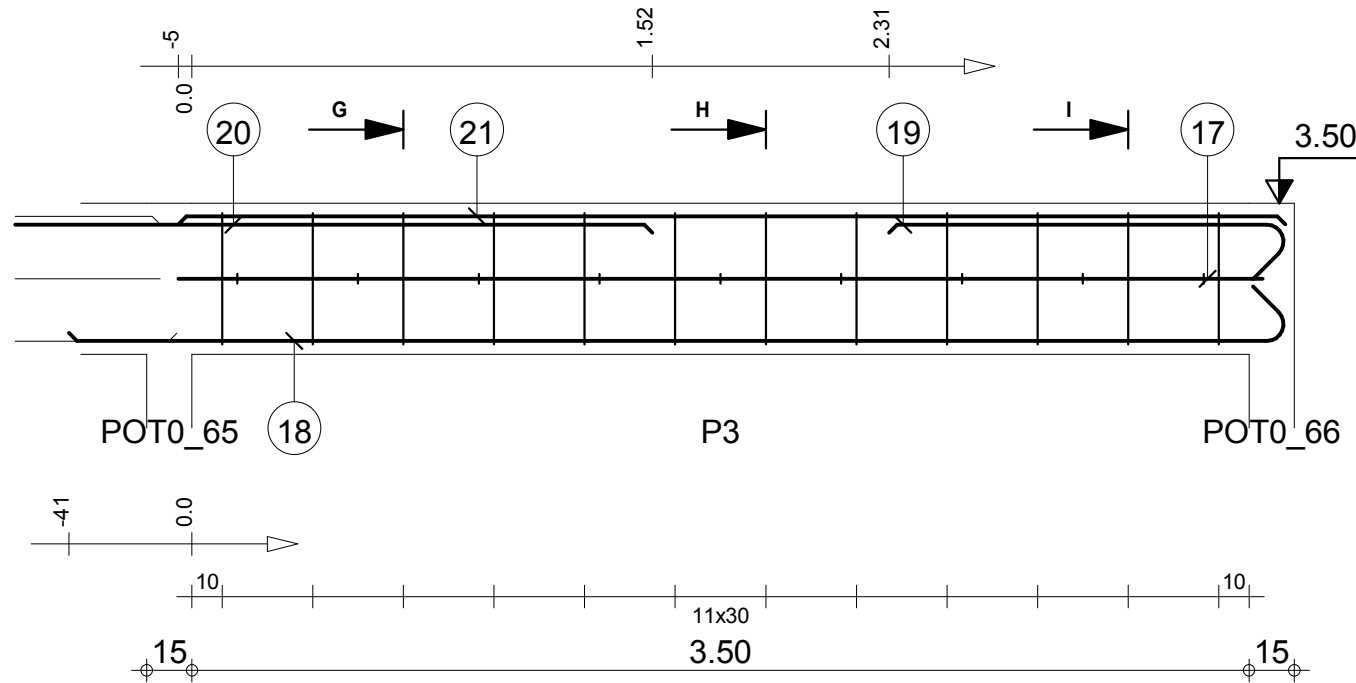
Acier HA 400 = 4.11 kg

Acier HA 400 = 4.67 kg

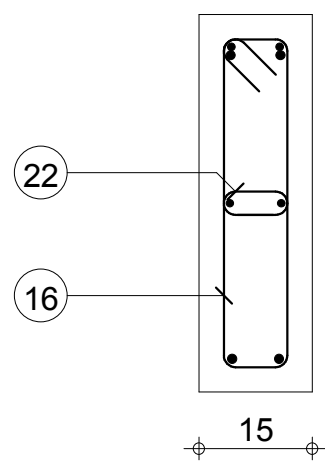
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MINHDU_BAMBOUTOS_POUTRES

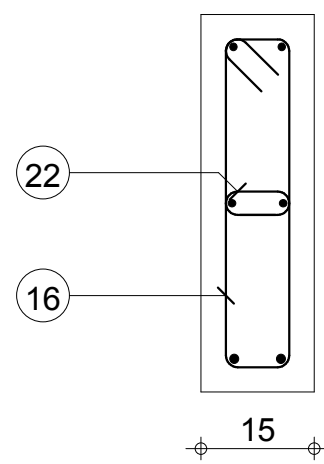
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 16 | 12HA 6 | l=1.18 | 31 | |
| 17 | 2HA 10 | l=3.59 | 00 | |
| 18 | 2HA 12 | l=4.22 | 00 | |
| 19 | 2HA 12 | l=1.50 | 00 | |
| 20 | 2HA 12 | l=3.00 | 00 | |
| 21 | 2HA 10 | l=3.67 | 00 | |
| 22 | 9HA 6 | l=25 | 00 | |



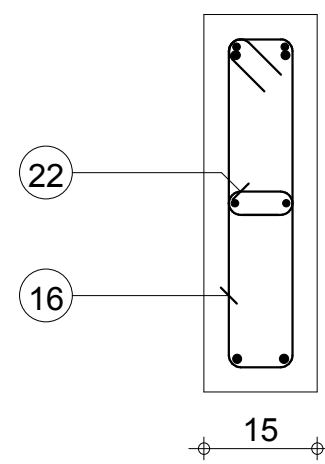
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 12.GM: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.279 m3

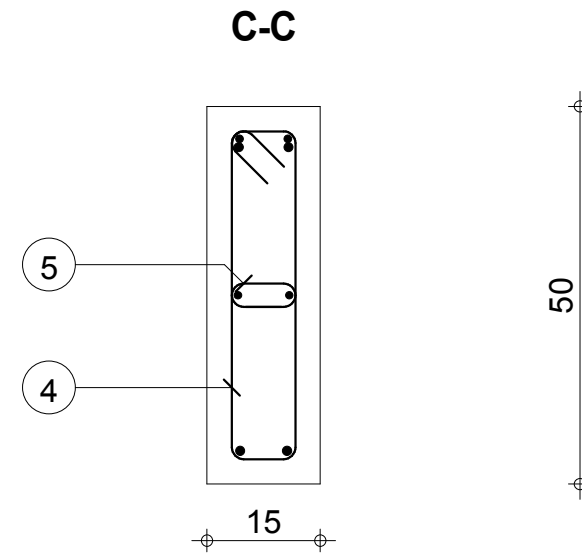
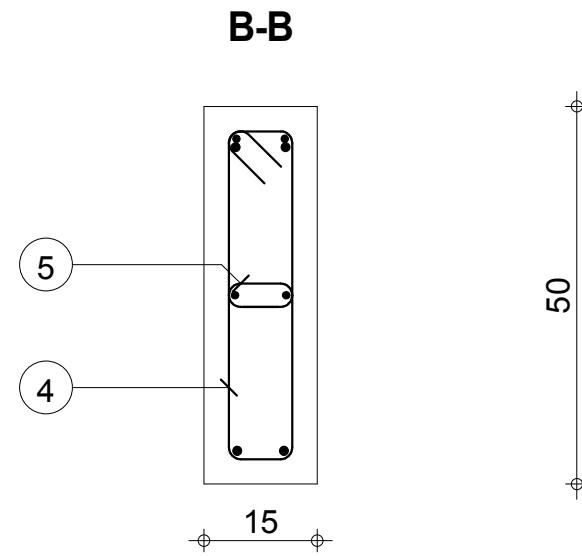
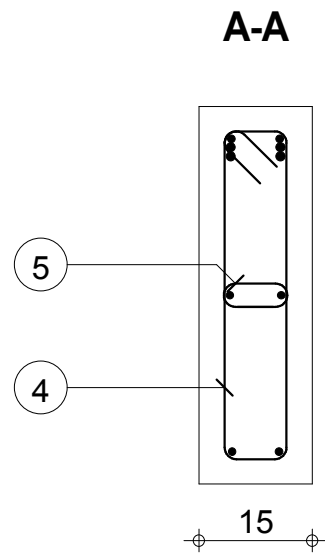
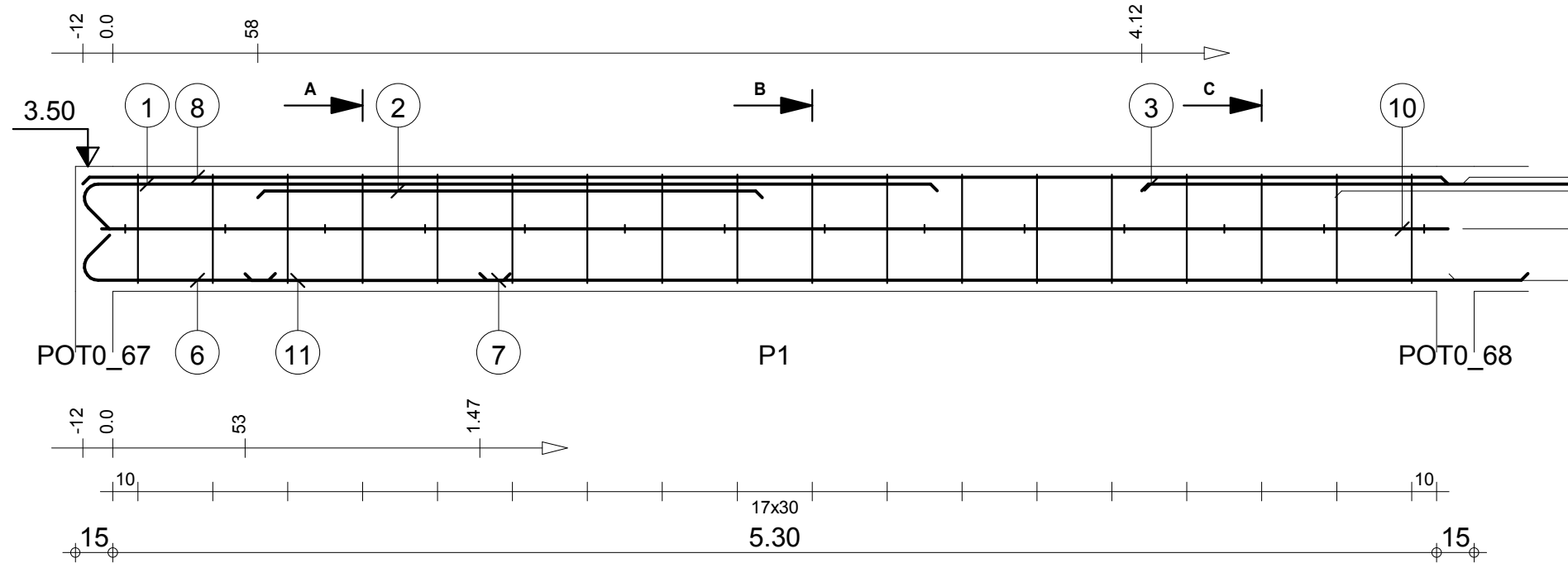
Acier HA 400 = 8.06 kg

Acier HA 400 = 20 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|-------|
| ① | 2HA 12 | l=3.61 | 00 | |
| ② | 2HA 12 | l=2.02 | 00 | |
| ③ | 2HA 12 | l=2.39 | 00 | |
| ④ | 18HA 6 | l=1.18* | 31 | |
| ⑤ | 14HA 6 | l=25 | 00 | |
| ⑥ | 2HA 12 | l=96 | 00 | |
| ⑦ | 2HA 12 | l=4.20 | 00 | |
| ⑧ | 2HA 10 | l=5.46 | 00 | |
| ⑩ | 2HA 10 | l=5.39 | 00 | |
| ⑪ | 2HA 10 | l=1.06 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 13.GM: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3


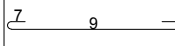
Béton : BETON20 = 0.414 m3

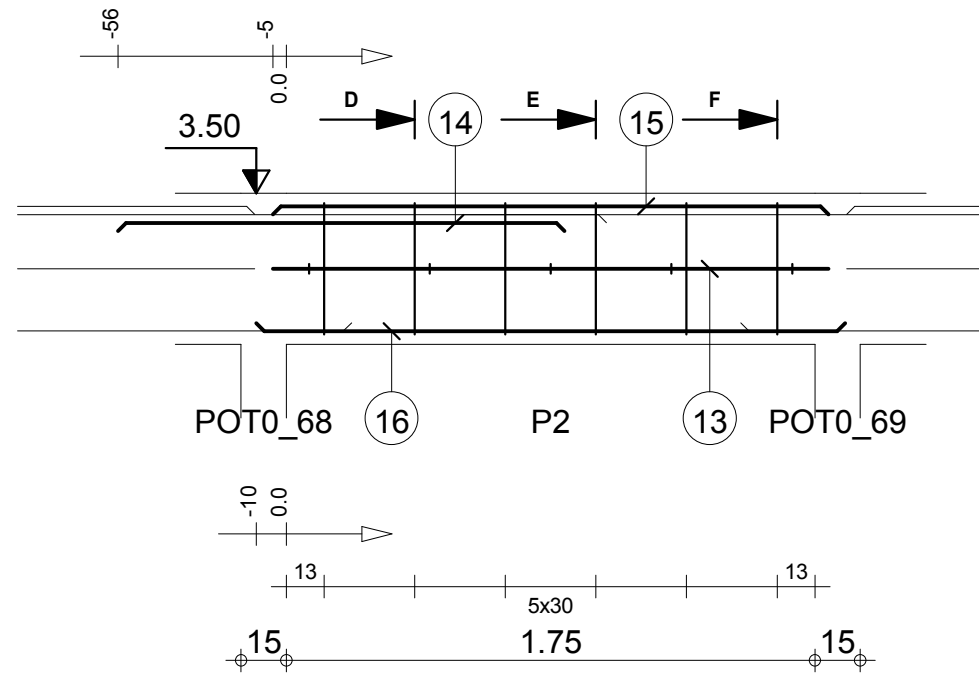
Acier HA 400 = 12.1 kg

Acier HA 400 = 31.4 kg

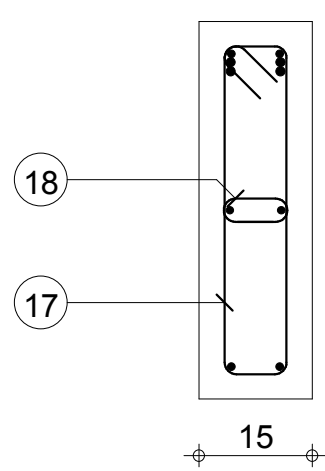
0

MINHDU_BAMBOUTOS_POUTRES

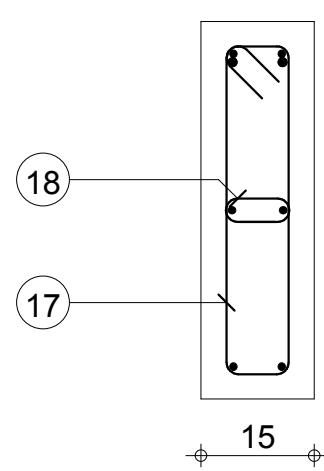
| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|---|
| 13 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 14 | 2HA 12 | l=1.48 | 00 | 1.48 |
| 15 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 16 | 2HA 10 | l=1.95 | 00 | 1.95 |
| 17 | 6HA 6 | l=1.18* | 31 |  |
| 18 | 5HA 6 | l=25 | 00 |  |



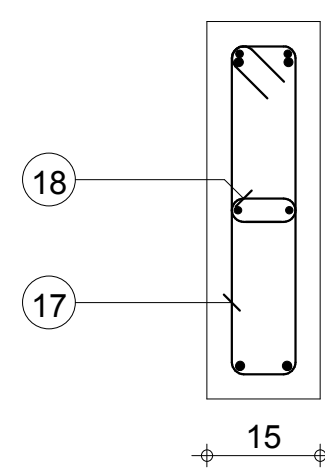
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 13.GM: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.142 m3

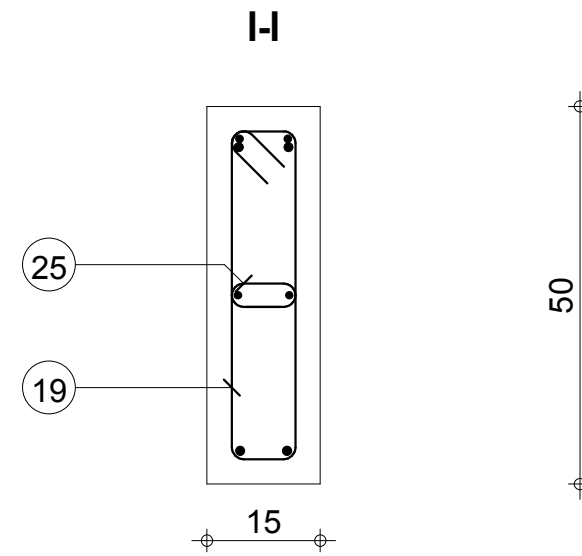
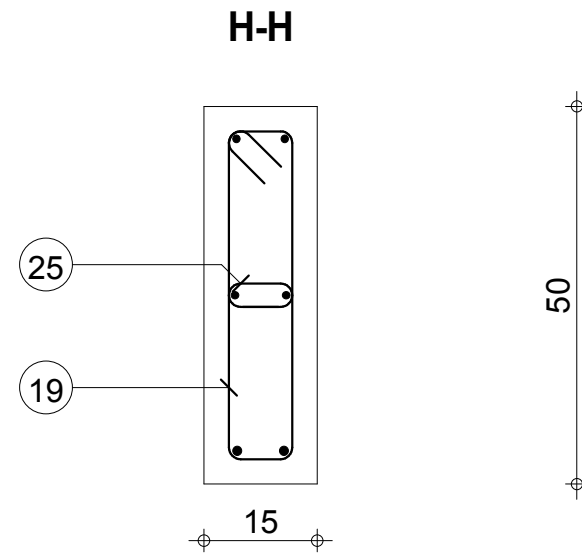
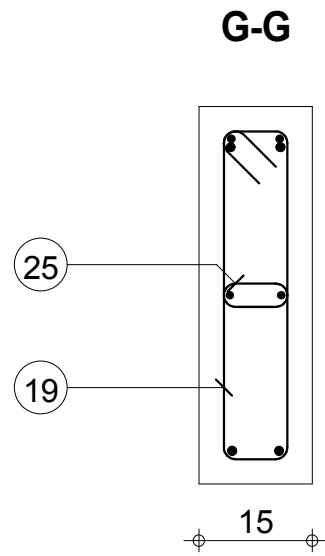
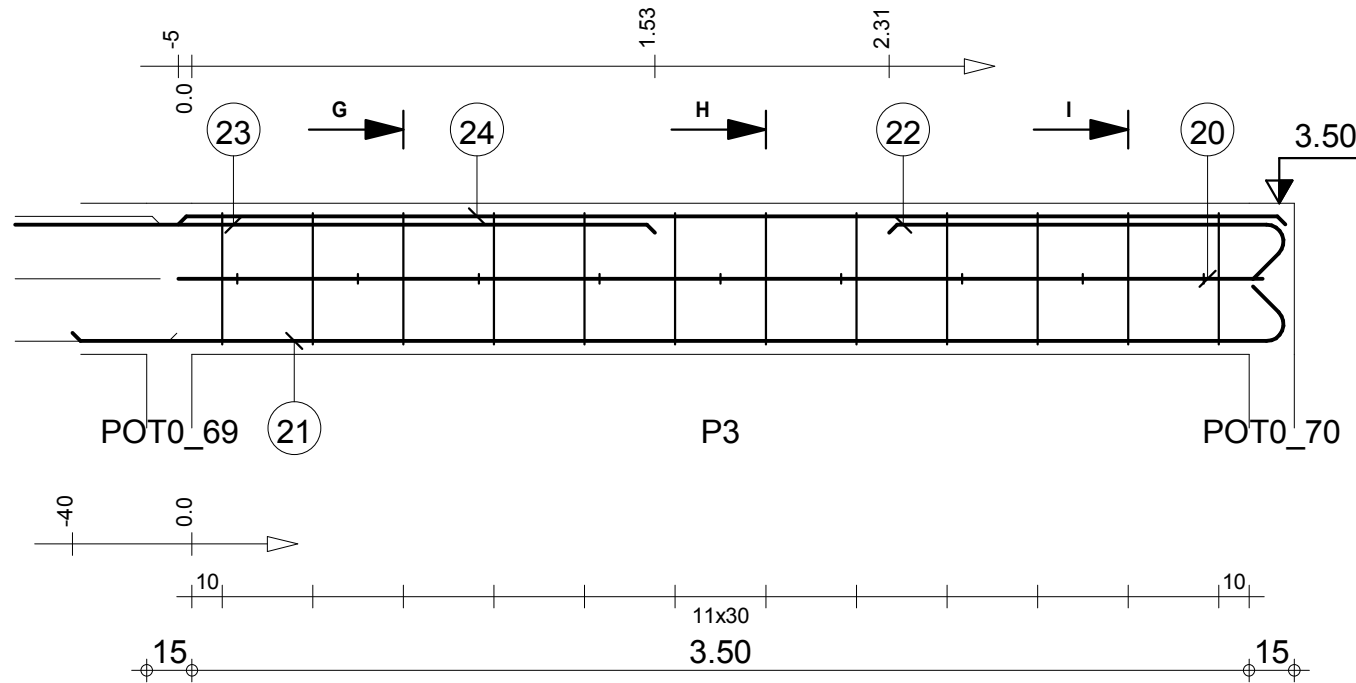
Acier HA 400 = 4.11 kg

Acier HA 400 = 7.3 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 19 | 12HA 6 | l=1.18 | 31 | |
| 20 | 2HA 10 | l=3.59 | 00 | |
| 21 | 2HA 12 | l=4.21 | 00 | |
| 22 | 2HA 12 | l=1.50 | 00 | |
| 23 | 2HA 12 | l=2.87 | 00 | |
| 24 | 2HA 10 | l=3.67 | 00 | |
| 25 | 9HA 6 | l=25 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 13.GM: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.279 m3

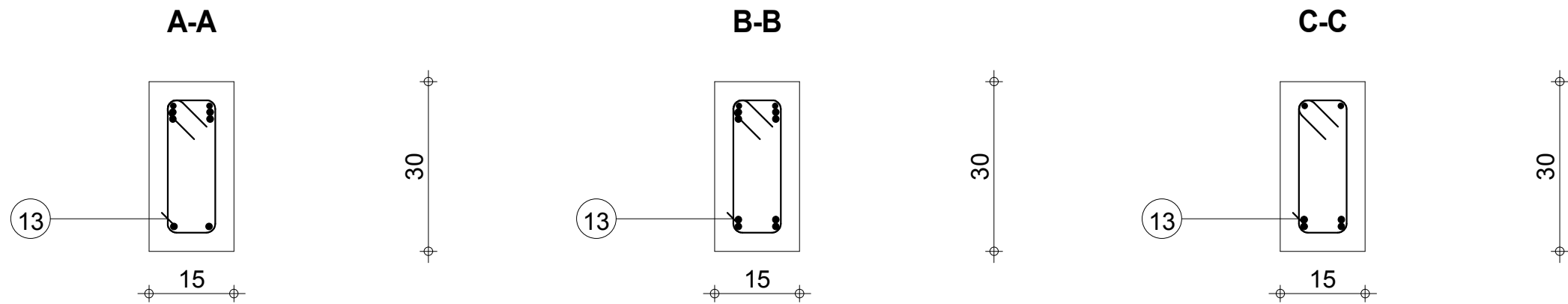
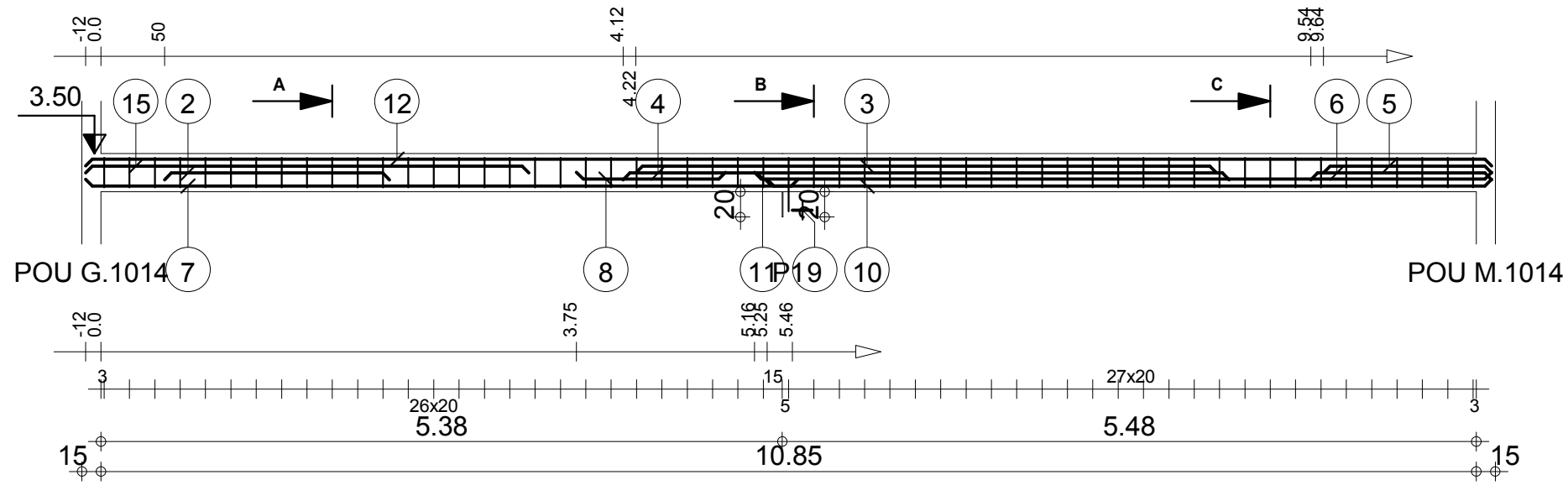
Acier HA 400 = 8.06 kg

Acier HA 400 = 19.8 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|---------|-------|-------|
| ② | 2HA 12 | l=1.77 | 00 | 1.77 |
| ③ | 2HA 12 | l=4.58 | 00 | 4.58 |
| ④ | 2HA 12 | l=4.78 | 00 | 4.78 |
| ⑤ | 2HA 12 | l=1.33 | 00 | 1.33 |
| ⑥ | 2HA 12 | l=1.43 | 00 | 1.43 |
| ⑦ | 2HA 12 | l=5.62 | 00 | 5.62 |
| ⑧ | 2HA 12 | l=1.18 | 00 | 1.18 |
| ⑨ | 2HA 12 | l=16 | 00 | 16 |
| ⑩ | 2HA 12 | l=5.71 | 00 | 5.72 |
| ⑪ | 2HA 12 | l=5.82 | 00 | 5.82 |
| ⑫ | 2HA 10 | l=11.09 | 00 | 11.09 |
| ⑬ | 2*27HA 6 | l=78 | 31 | |
| ⑭ | 1HA 6 | l=1.15 | 31 | |
| ⑮ | 2HA 12 | l=3.50 | 00 | 3.50 |



Tél.

Fax

Echelle pour la vue 1:50

Echelle pour la section 1:10

POU 14.GM: P1

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.506 m3

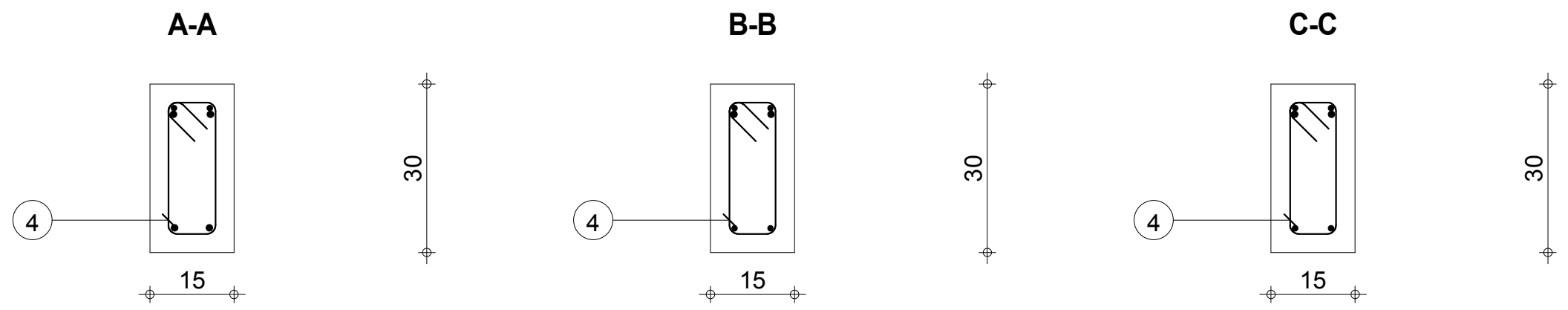
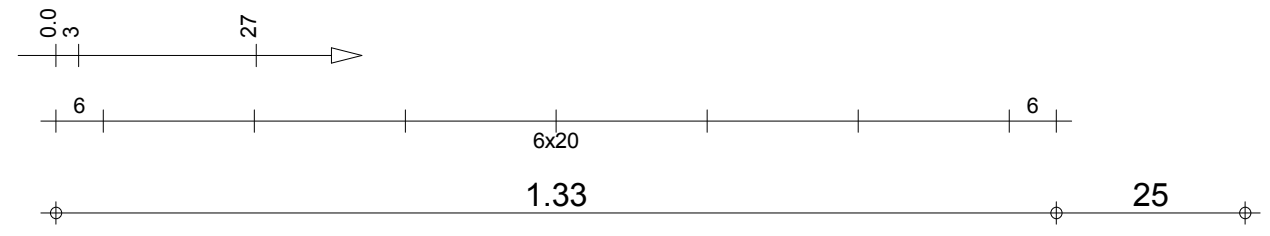
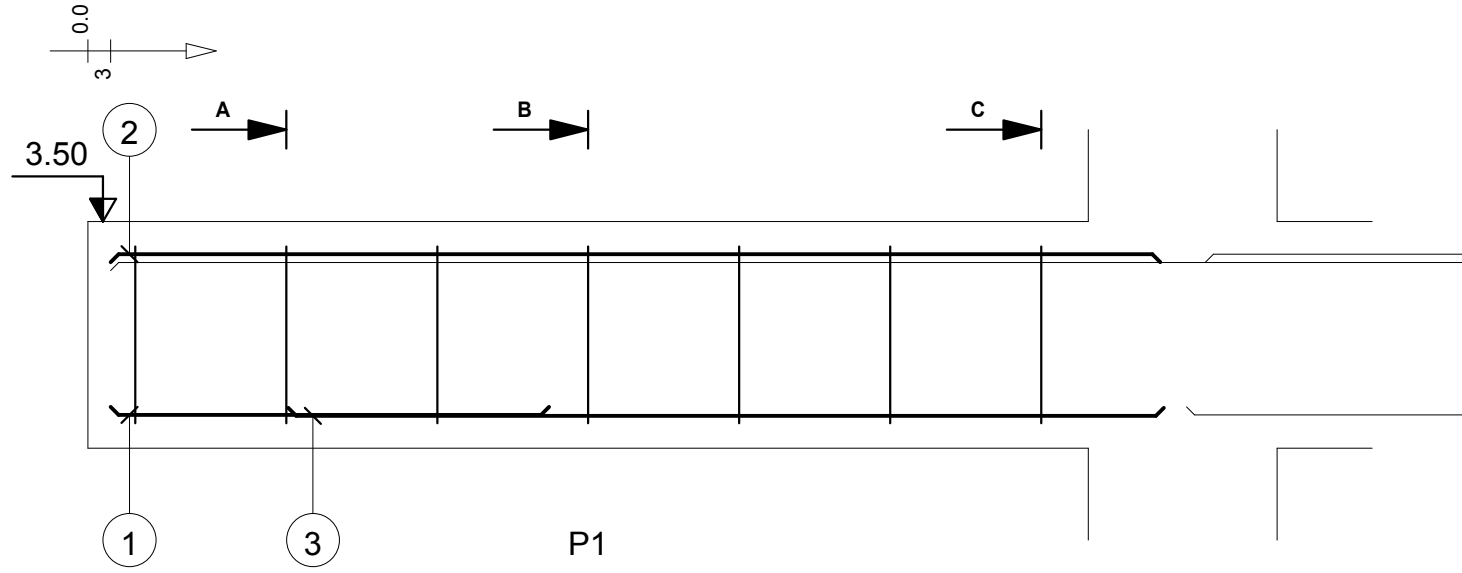
Acier HA 400 = 9.58 kg

Acier HA 400 = 77.3 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | I=58 | 58 |
| ② | 2HA 10 | I=1.39 | 1.39 |
| ③ | 2HA 10 | I=1.16 | 1.16 |
| ④ | 7HA 6 | I=78* | |



Tél.
Fax

Echelle pour la vue 1:10
Echelle pour la section 1:10

POU A.35: P1
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

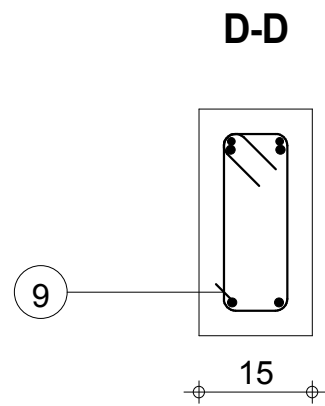
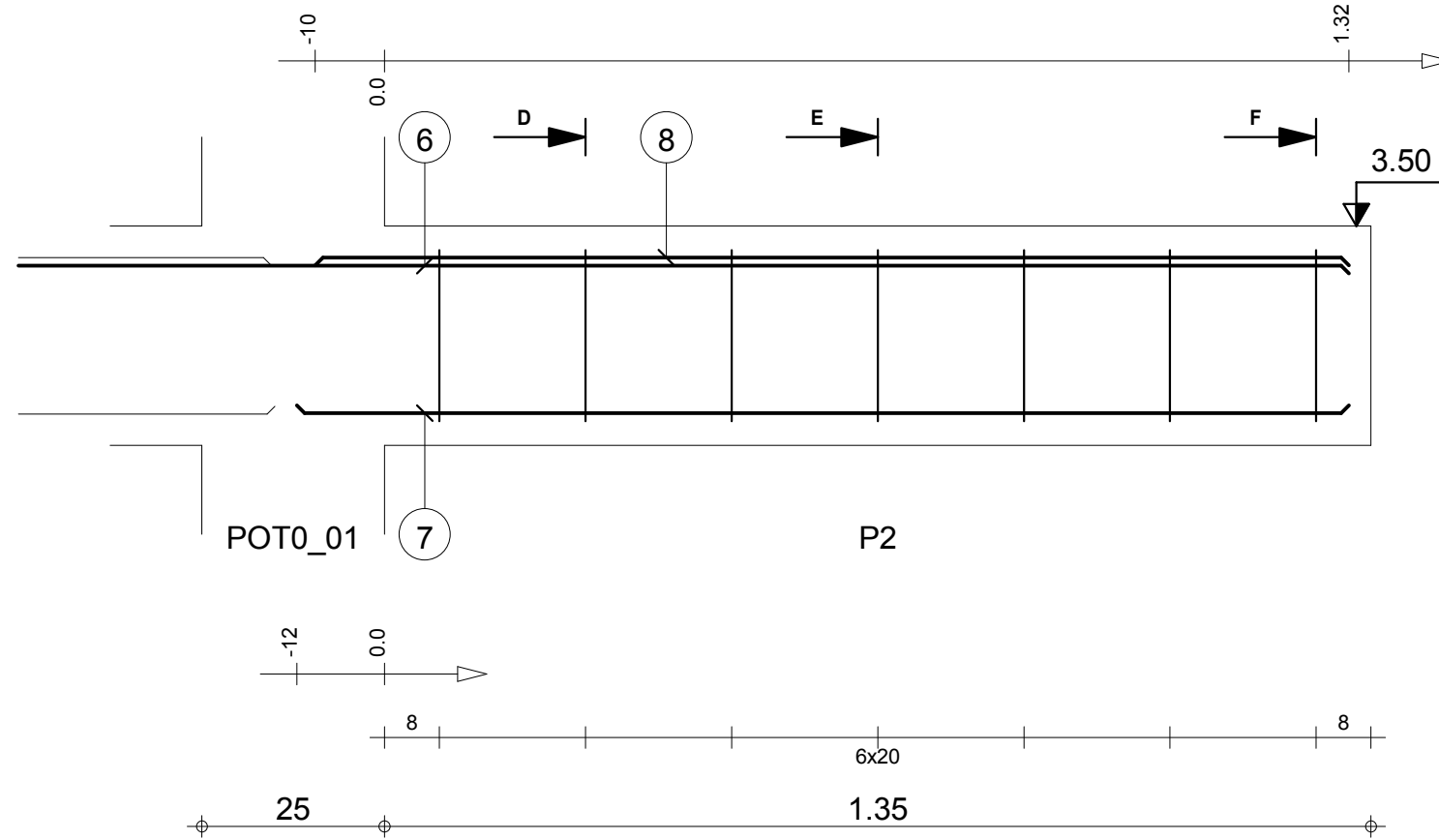
Page 1/2

Béton : BETON20 = 0.0652 m3
Acier HA 400 = 1.21 kg
Acier HA 400 = 4.18 kg

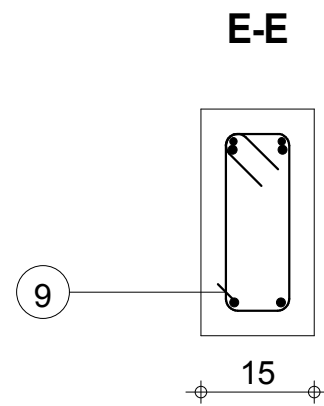
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MINHDU_BAMBOUTOS_POUTRES

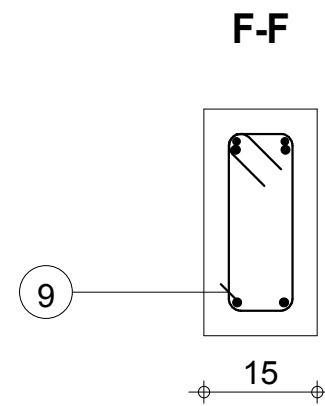
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| ⑥ | 2HA 12 | l=2.87 | 00 2.87 |
| ⑦ | 2HA 12 | l=1.44 | 00 1.44 |
| ⑧ | 2HA 10 | l=1.42 | 00 1.42 |
| ⑨ | 7HA 6 | l=78 | 31 |



30



30



30

Tél.
Fax

Echelle pour la vue 1:10
Echelle pour la section 1:10

POU A.35: P2
Section 15x30



Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

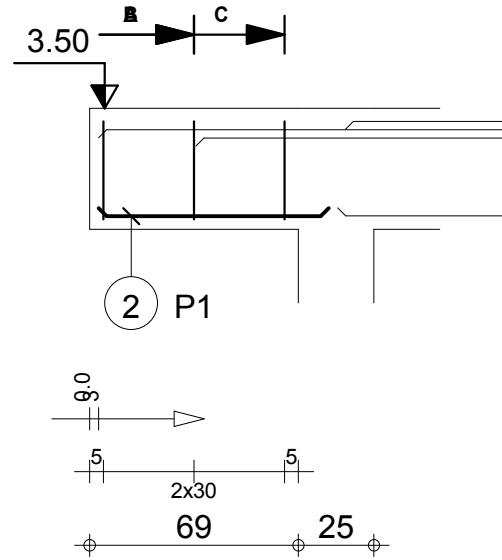
Page 2/2

Béton : BETON20 = 0.0664 m3
Acier HA 400 = 1.21 kg
Acier HA 400 = 9.39 kg

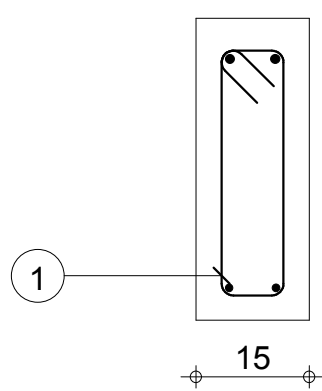
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MINHDU_BAMBOUTOS_POUTRES

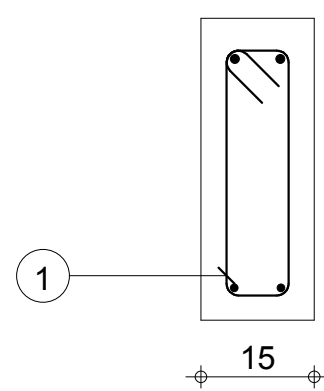
| Pos. | Armature | Code | Forme |
|------|----------|------|--|
| ① | 3HA 6 | I=95 | 31  |
| ② | 2HA 10 | I=76 | 00  |



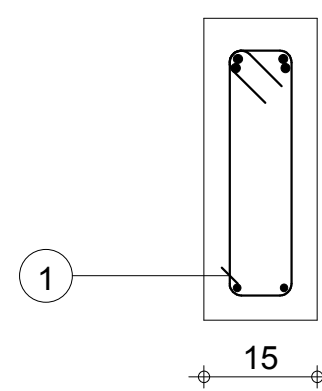
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU B.115: P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.049 m3

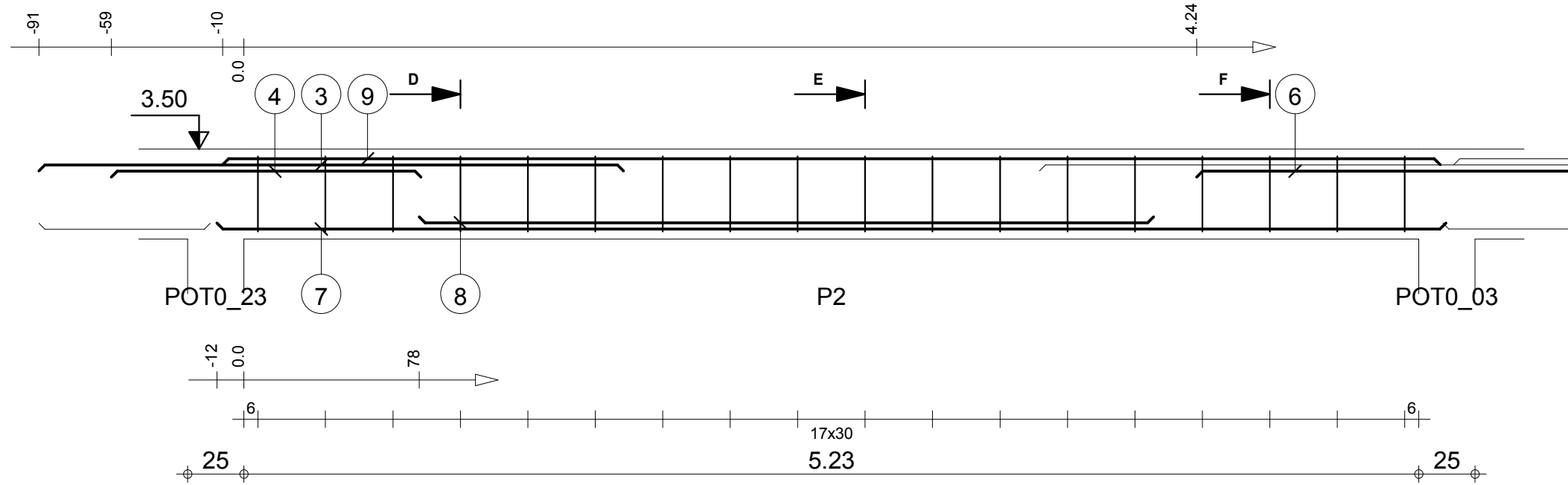
Acier HA 400 = 0.635 kg

Acier HA 400 = 0.939 kg

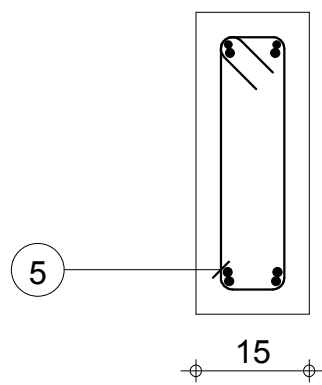
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MINHDU_BAMBOUTOS_POUTRES

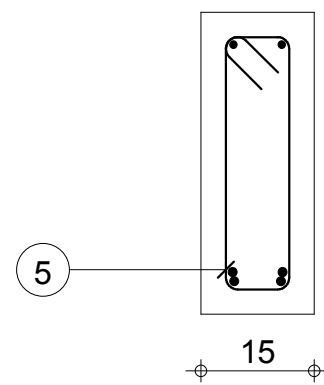
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|---|
| ③ | 2HA 12 | l=2.60 | 00 | 2.60 |
| ④ | 2HA 12 | l=1.38 | 00 | 1.38 |
| ⑤ | 18HA 6 | l=98 | 31 |  |
| ⑥ | 2HA 12 | l=2.12 | 00 | 2.12 |
| ⑦ | 2HA 12 | l=5.46 | 00 | 5.47 |
| ⑧ | 2HA 12 | l=3.27 | 00 | 3.27 |
| ⑨ | 2HA 10 | l=5.42 | 00 | 5.42 |



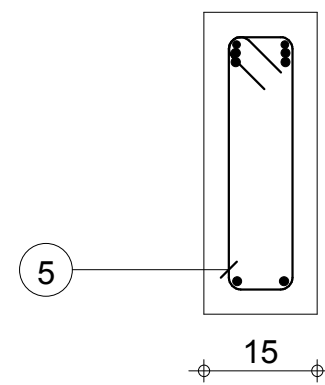
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU B.115: P2

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.328 m3

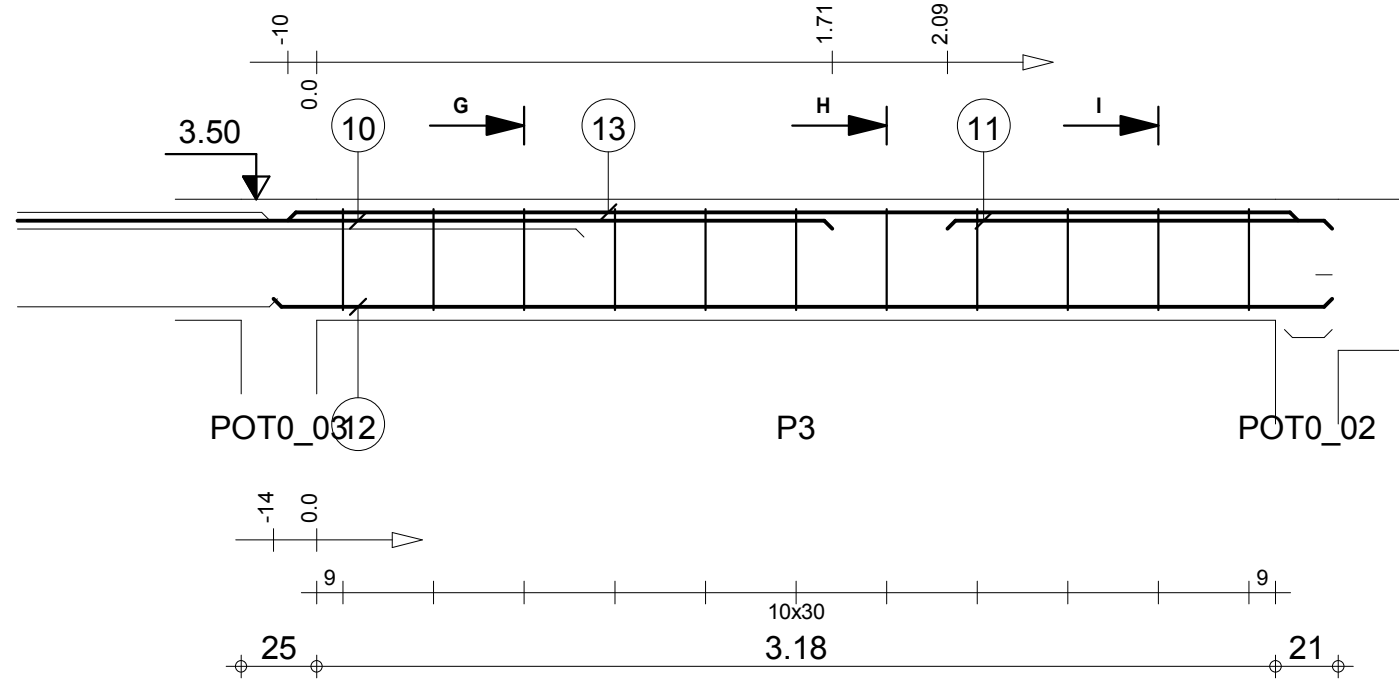
Acier HA 400 = 3.91 kg

Acier HA 400 = 33 kg

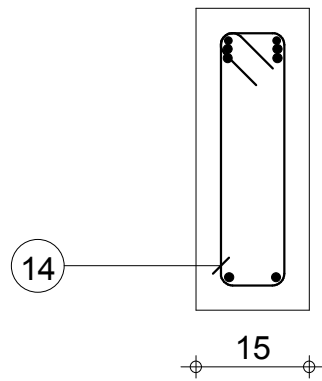
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MINHDU_BAMBOUTOS_POUTRES

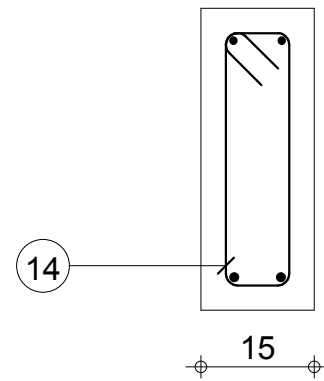
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ⑩ | 2HA 12 | l=3.65 | 00 | 3.65 |
| ⑪ | 2HA 12 | l=1.27 | 00 | 1.27 |
| ⑫ | 2HA 12 | l=3.50 | 00 | 3.51 |
| ⑬ | 2HA 10 | l=3.34 | 00 | 3.34 |
| ⑭ | 11HA 6 | l=98 | 31 | |



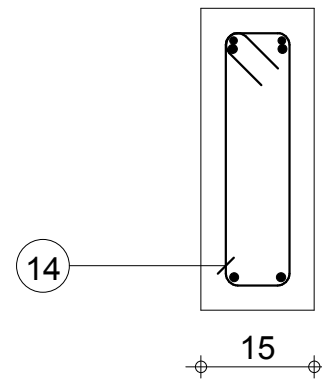
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU B.115: P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.207 m3

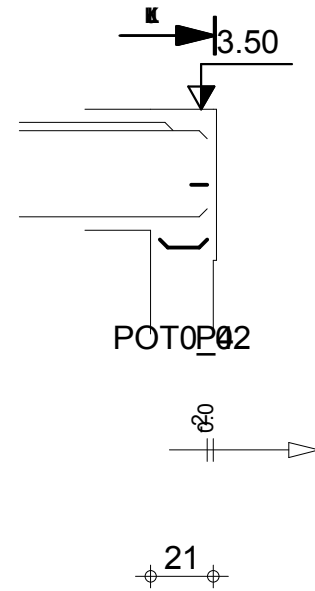
Acier HA 400 = 2.39 kg

Acier HA 400 = 19.1 kg

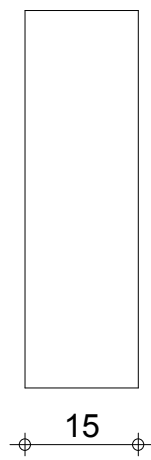
0

MINHDU_BAMBOUTOS_POUTRES

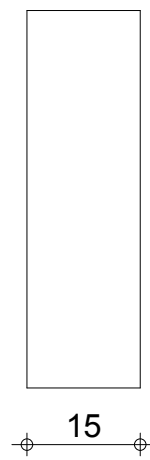
| Pos. | Armature | Code | Forme |
|------|-------------|------|-------|
| 15 | 2HA 12 l=16 | 00 | 16 |
| 16 | 2HA 10 l=5 | 00 | 5 |



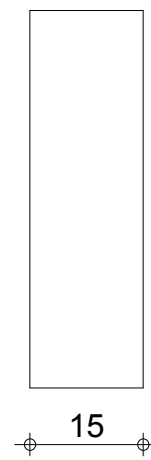
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU B.115: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.0101 m3

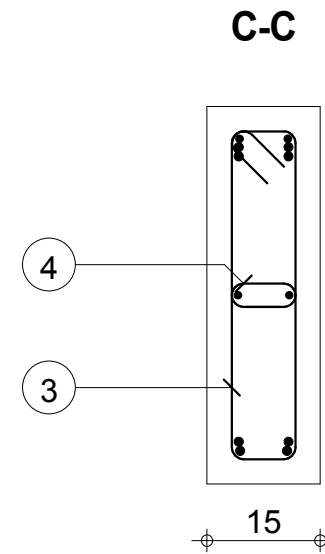
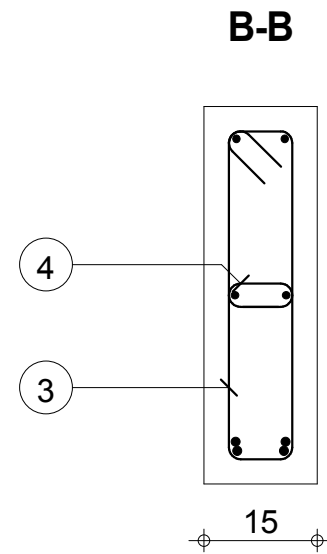
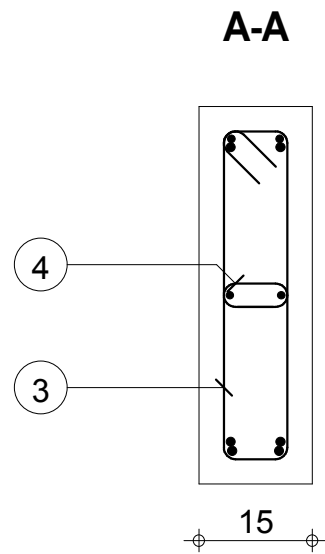
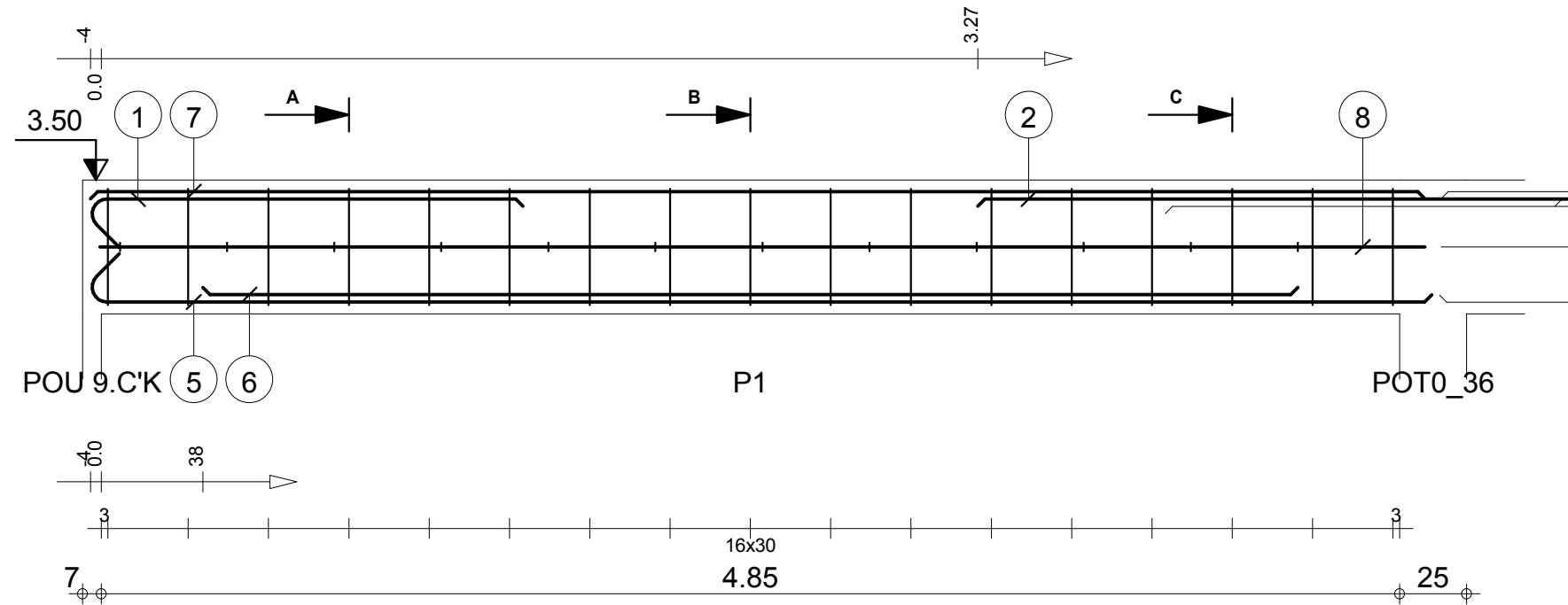
Acier HA 400 = 0.0663 kg

Acier HA 400 = 0.28 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.80 | 00 | |
| ② | 2HA 12 | l=3.09 | 00 | |
| ③ | 17HA 6 | l=1.18 | 31 | |
| ④ | 12HA 6 | l=25 | 00 | |
| ⑤ | 2HA 12 | l=5.20 | 00 | |
| ⑥ | 2HA 12 | l=4.09 | 00 | |
| ⑦ | 2HA 10 | l=4.99 | 00 | |
| ⑧ | 2HA 10 | l=4.95 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU F.49: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.378 m3

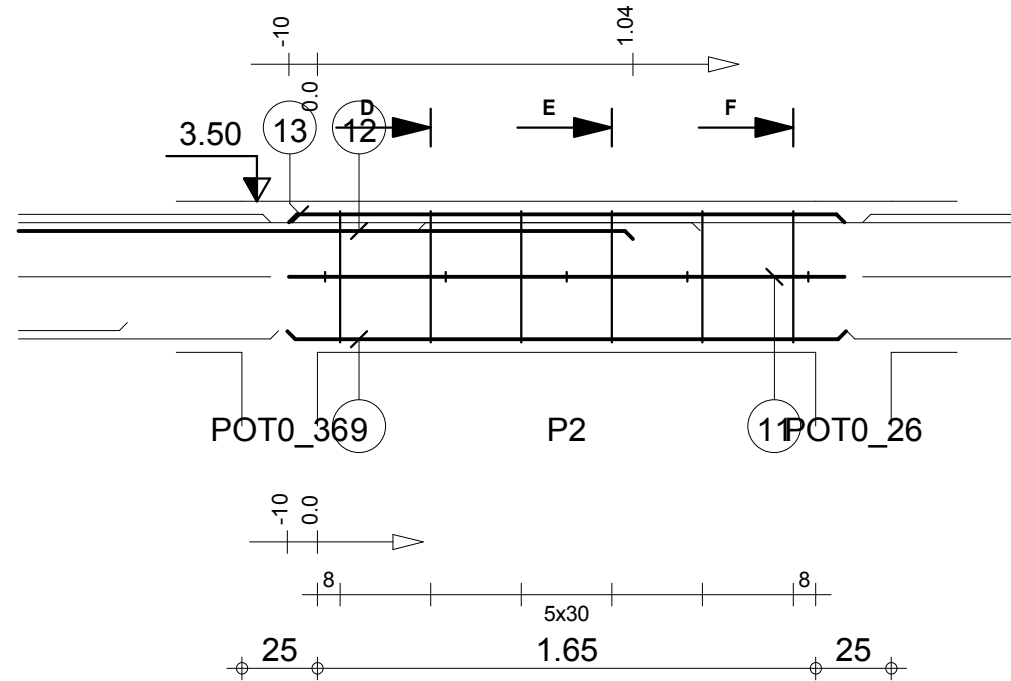
Acier HA 400 = 11.2 kg

Acier HA 400 = 31.3 kg

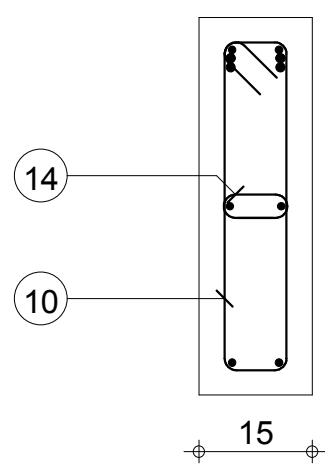
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MINHDU_BAMBOUTOS_POUTRES

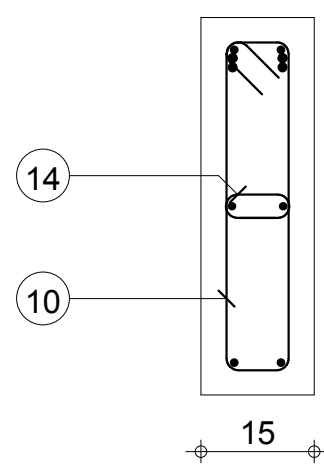
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 9 | 2HA 10 | l=1.85 | 00 | 1.85 |
| 10 | 6HA 6 | l=1.17 | 31 | |
| 11 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 12 | 2HA 12 | l=2.17 | 00 | 2.17 |
| 13 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 14 | 5HA 6 | l=25 | 00 | |



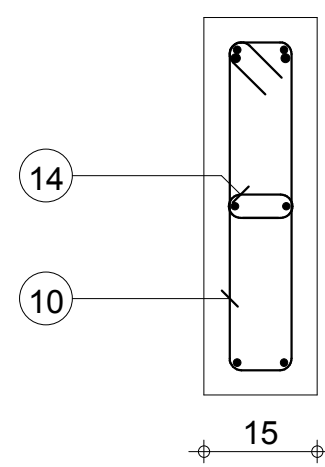
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU F.49: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.142 m³

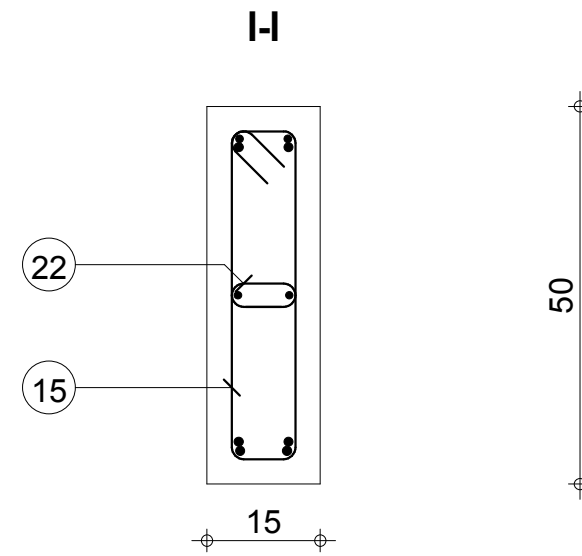
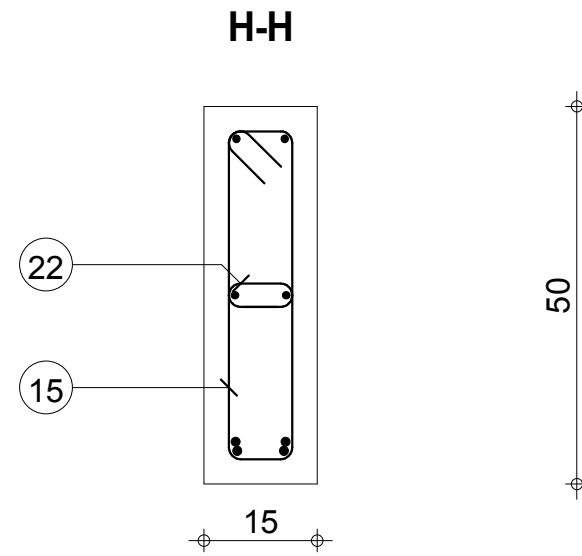
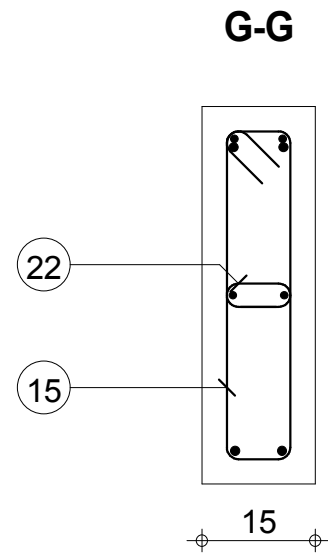
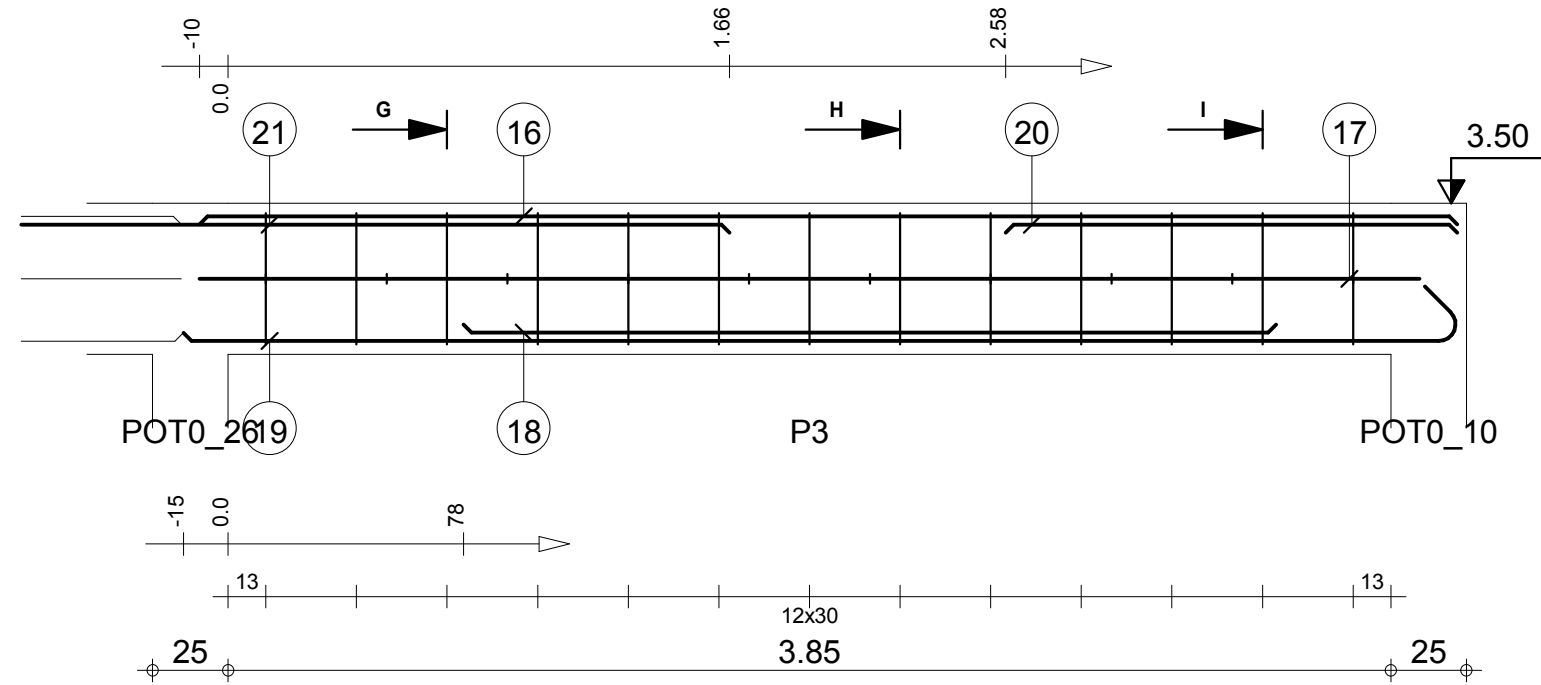
Acier HA 400 = 4.11 kg

Acier HA 400 = 8.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 13HA 6 | l=1.18 | 31 | |
| 16 | 2HA 10 | l=4.17 | 00 | |
| 17 | 2HA 10 | l=4.04 | 00 | |
| 18 | 2HA 12 | l=2.69 | 00 | |
| 19 | 2HA 12 | l=4.41 | 00 | |
| 20 | 2HA 12 | l=1.50 | 00 | |
| 21 | 2HA 12 | l=3.23 | 00 | |
| 22 | 10HA 6 | l=25 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU F.49: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.317 m³

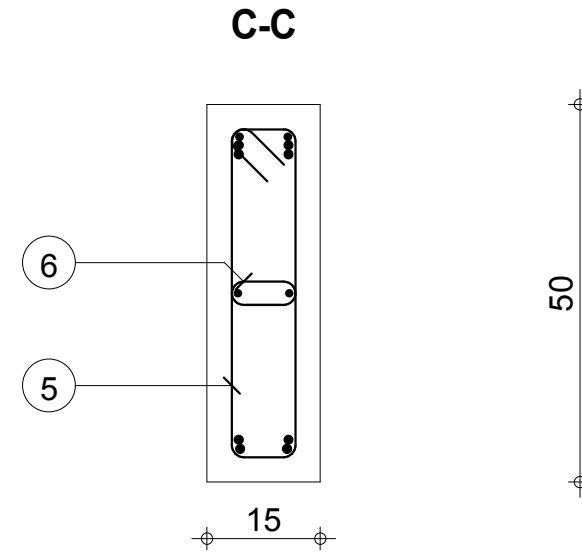
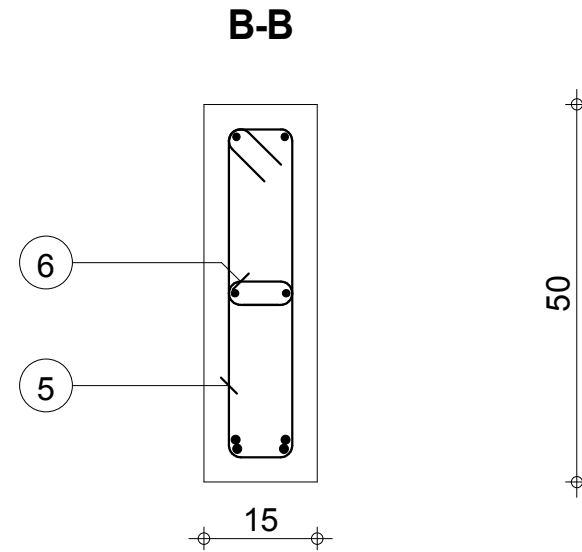
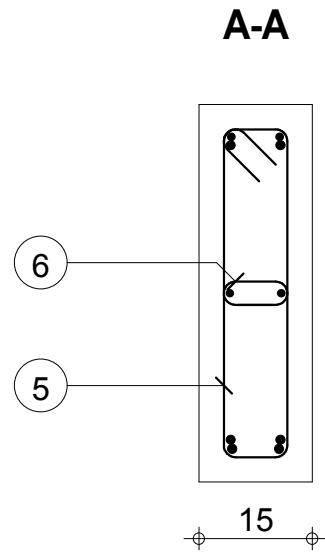
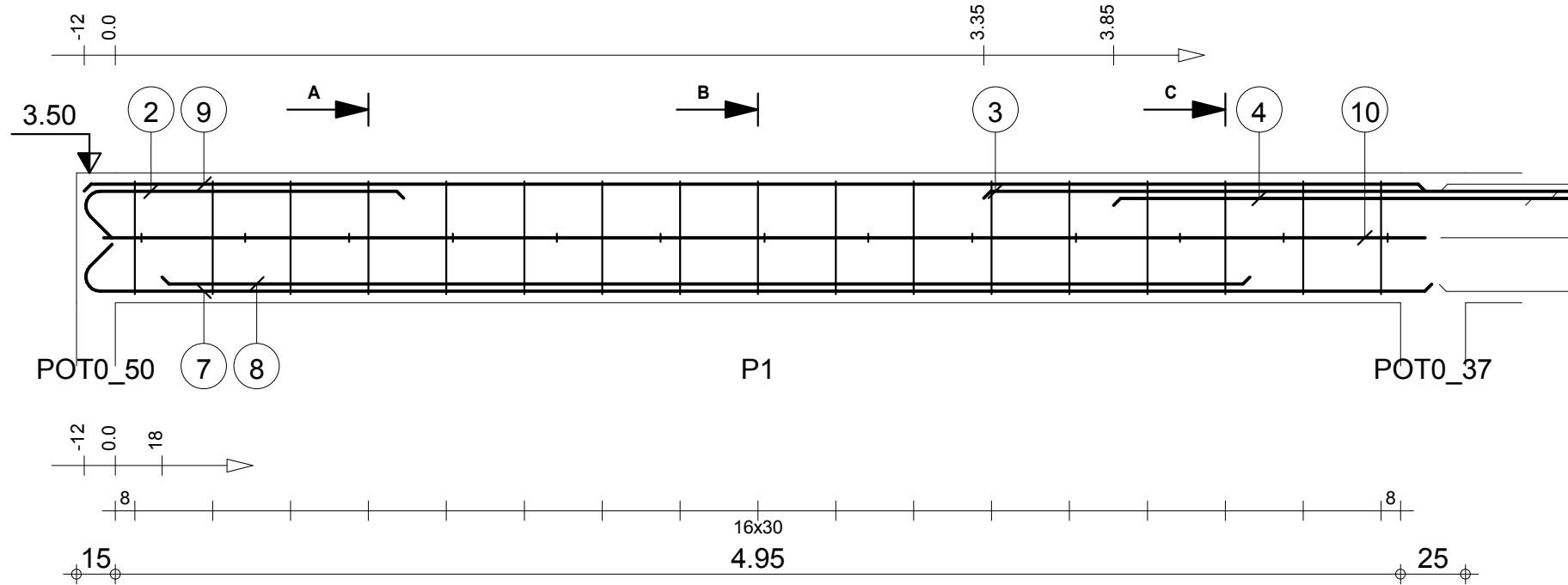
Acier HA 400 = 8.94 kg

Acier HA 400 = 26.1 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=1.42 | 00 | |
| ③ | 2HA 12 | l=3.17 | 00 | |
| ④ | 2HA 12 | l=2.44 | 00 | |
| ⑤ | 17HA 6 | l=1.18 | 31 | |
| ⑥ | 13HA 6 | l=25 | 00 | |
| ⑦ | 2HA 12 | l=5.38 | 00 | |
| ⑧ | 2HA 12 | l=4.19 | 00 | |
| ⑨ | 2HA 10 | l=5.17 | 00 | |
| ⑩ | 2HA 10 | l=5.09 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU H.29: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5


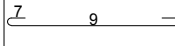
Béton : BETON20 = 0.392 m3

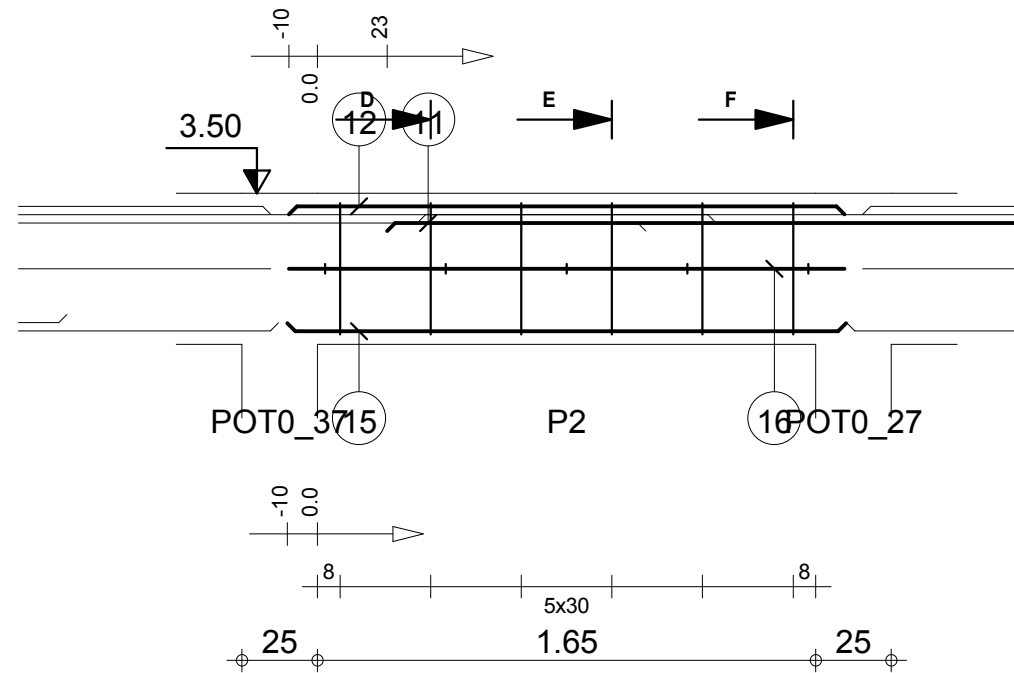
Acier HA 400 = 11.4 kg

Acier HA 400 = 35.9 kg

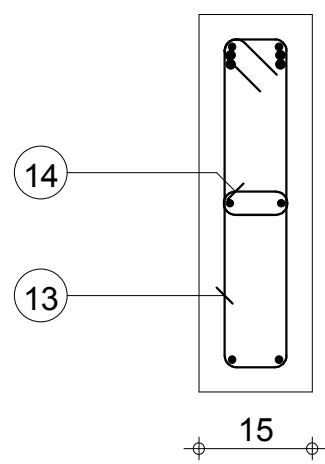
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MINHDU_BAMBOUTOS_POUTRES

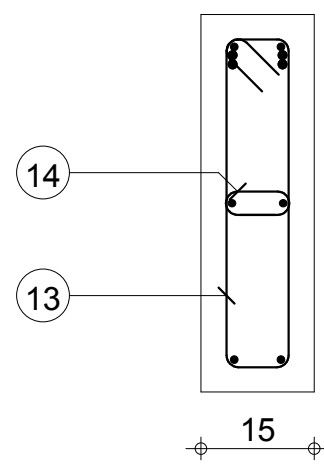
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 11 | 2HA 12 | l=2.62 | 00 | 2.62 |
| 12 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 13 | 6HA 6 | l=1.17 | 31 |  |
| 14 | 5HA 6 | l=25 | 00 |  |
| 15 | 2HA 10 | l=1.85 | 00 | 1.85 |
| 16 | 2HA 10 | l=1.84 | 00 | 1.84 |



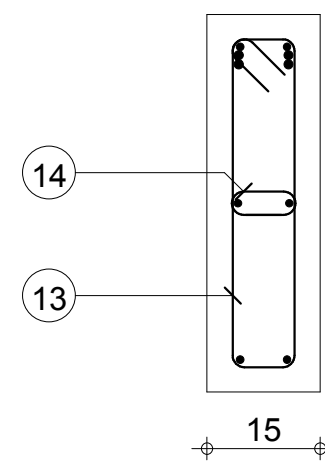
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU H.29: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.142 m3

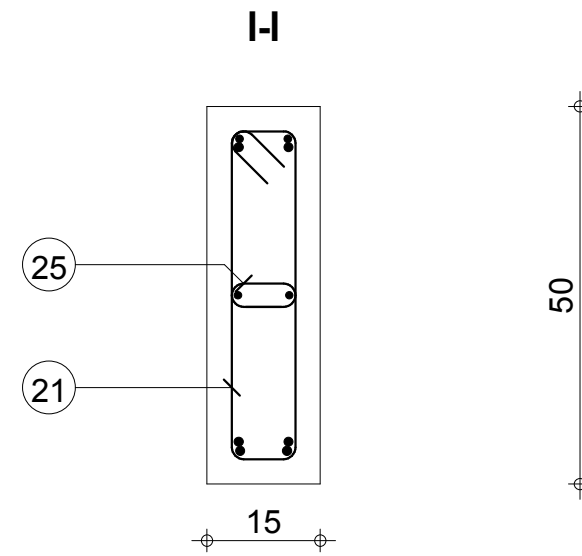
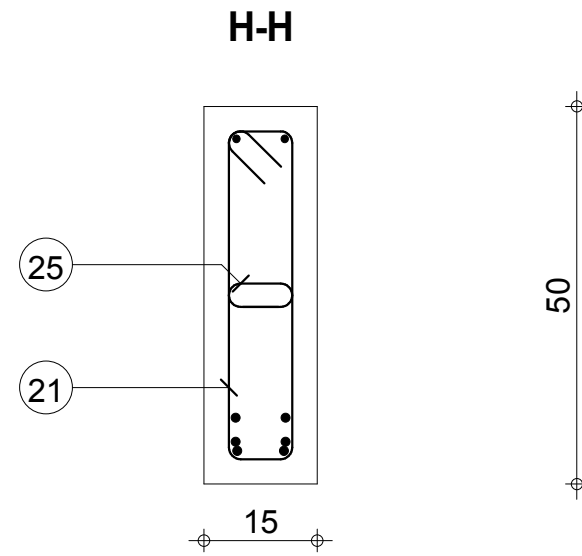
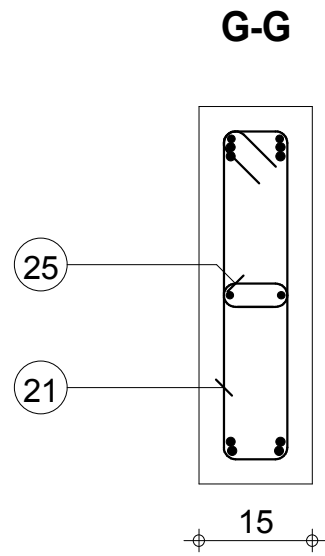
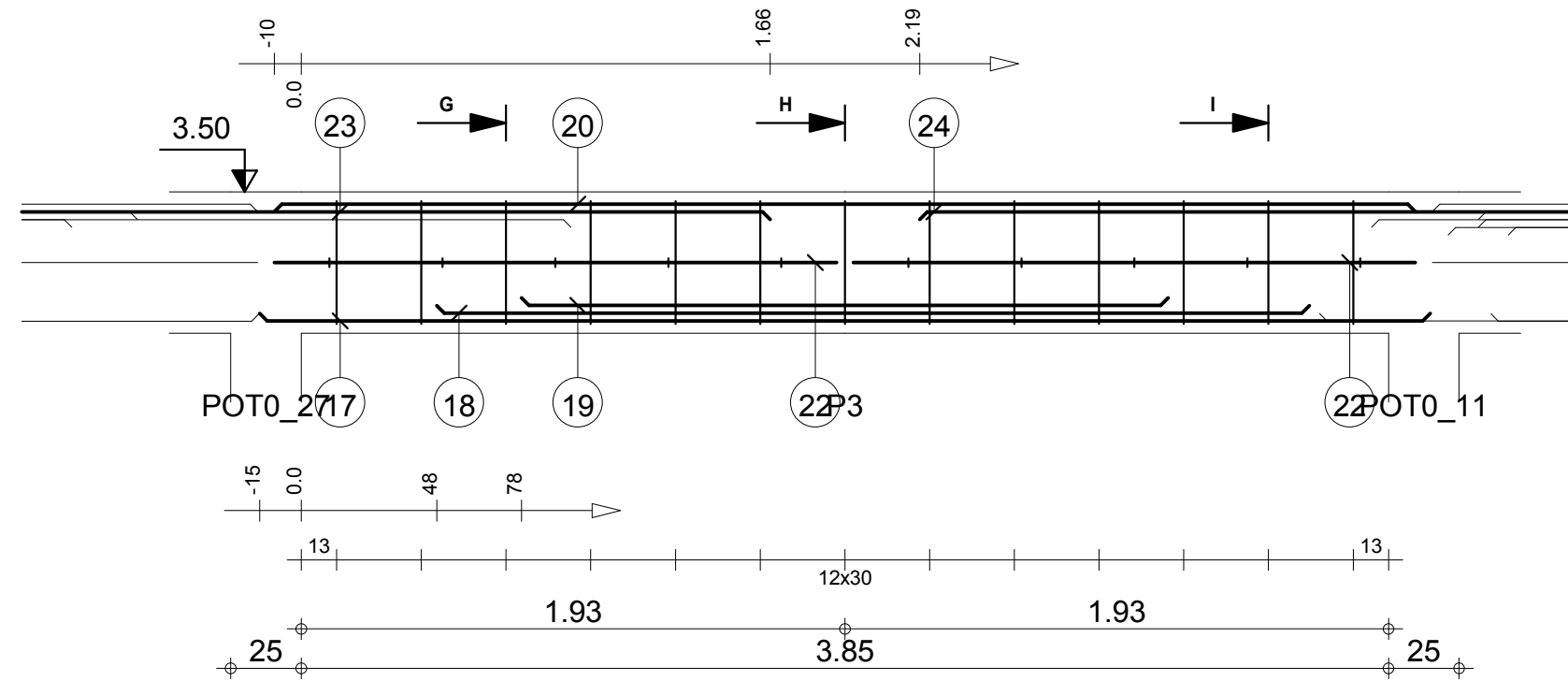
Acier HA 400 = 4.11 kg

Acier HA 400 = 9.21 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 17 | 2HA 12 | l=4.15 | 00 | 4.14 |
| 18 | 2HA 12 | l=3.09 | 00 | 3.09 |
| 19 | 2HA 12 | l=2.29 | 00 | 2.29 |
| 20 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 21 | 13HA 6 | l=1.18 | 31 | |
| 22 | 2*2HA 10 | l=1.99 | 00 | 1.99 |
| 23 | 2HA 12 | l=3.23 | 00 | 3.23 |
| 24 | 2HA 12 | l=2.97 | 00 | 2.97 |
| 25 | 2*5HA 6 | l=25 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU H.29: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.308 m3

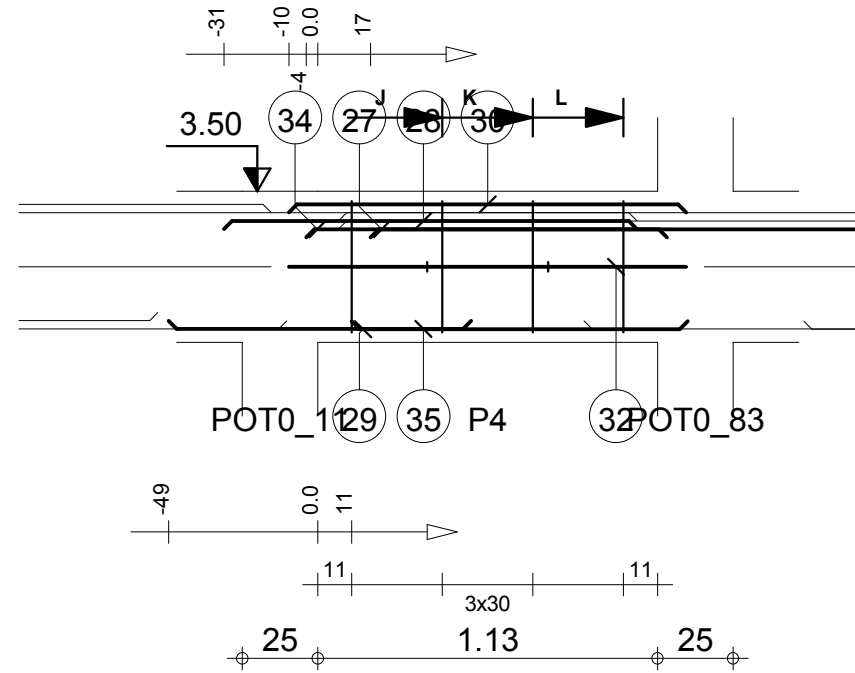
Acier HA 400 = 8.86 kg

Acier HA 400 = 32.9 kg

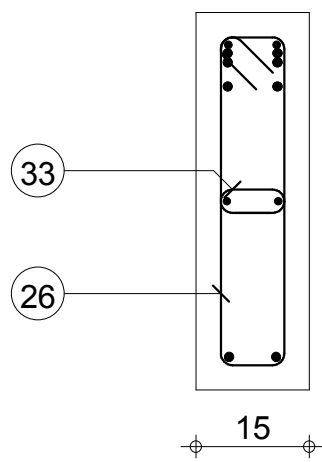
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MINHDU_BAMBOUTOS_POUTRES

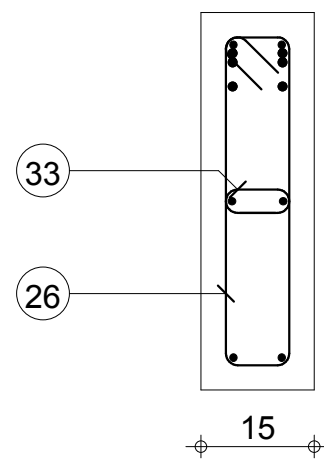
| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|-------|
| 26 | 4HA 6 | l=1.18* | 31 | |
| 27 | 2HA 12 | l=1.97 | 00 | |
| 28 | 2HA 12 | l=1.37 | 00 | |
| 29 | 2HA 10 | l=1.11 | 00 | |
| 30 | 2HA 10 | l=1.31 | 00 | |
| 32 | 2HA 10 | l=1.31 | 00 | |
| 33 | 2HA 6 | l=25 | 00 | |
| 34 | 2HA 12 | l=1.19 | 00 | |
| 35 | 2HA 12 | l=1.00 | 00 | |



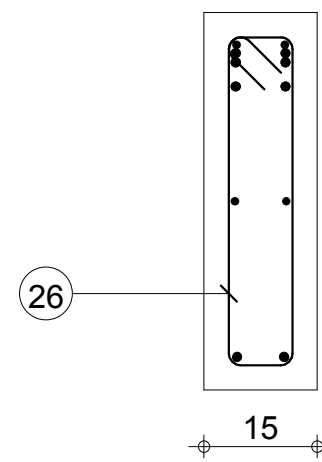
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU H.29: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.103 m3

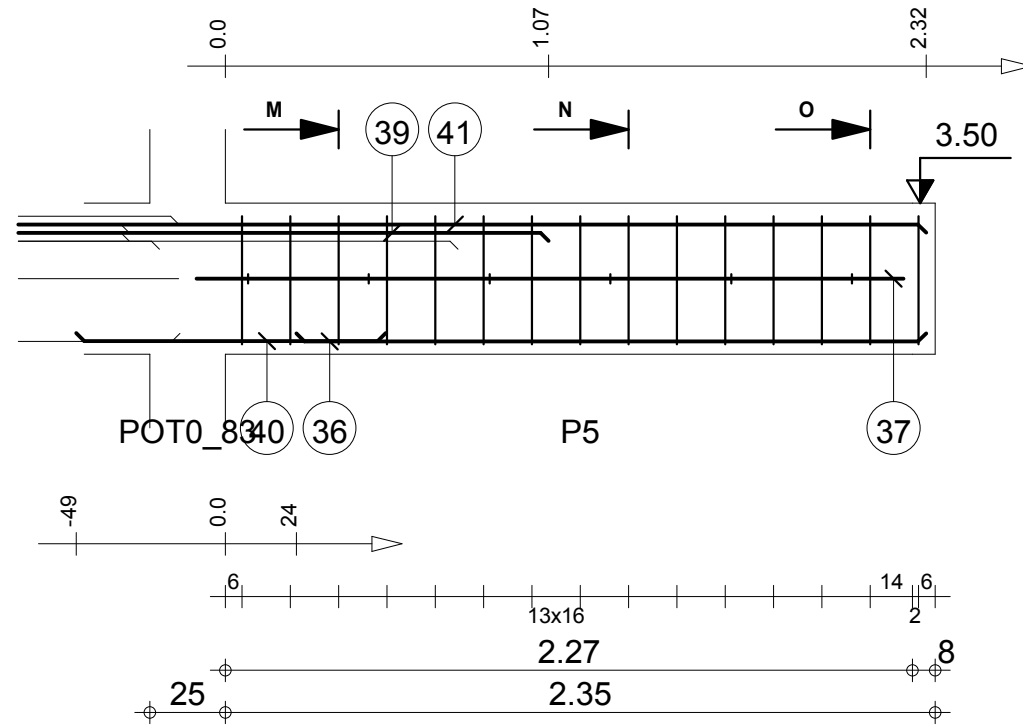
Acier HA 400 = 2.78 kg

Acier HA 400 = 12.8 kg

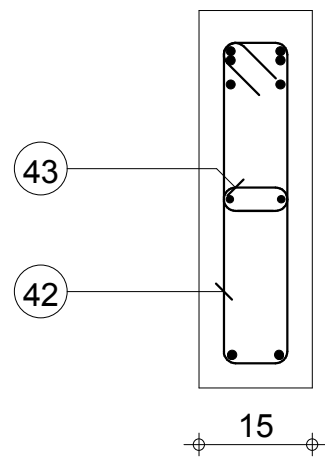
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MINHDU_BAMBOUTOS_POUTRES

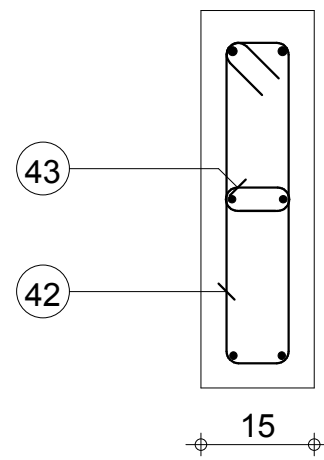
| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|-------|
| 36 | 2HA 10 | l=2.09 | 00 | 2.09 |
| 37 | 2HA 10 | l=2.34 | 00 | 2.34 |
| 39 | 2HA 12 | l=2.38 | 00 | 2.38 |
| 40 | 2HA 12 | l=1.02 | 00 | 1.03 |
| 41 | 2HA 12 | l=3.63 | 00 | 3.63 |
| 42 | 15HA 6 | l=1.16* | 31 | |
| 43 | 6HA 6 | l=25 | 00 | |



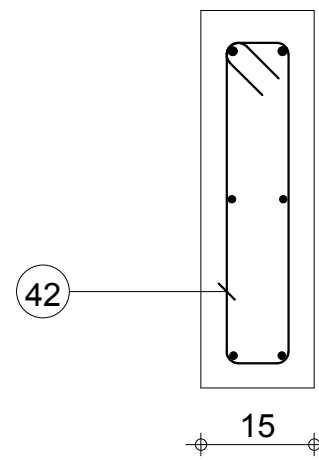
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU H.29: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5


Béton : BETON20 = 0.186 m3

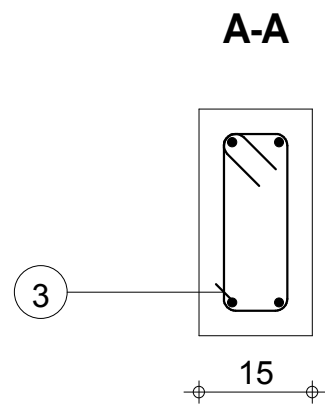
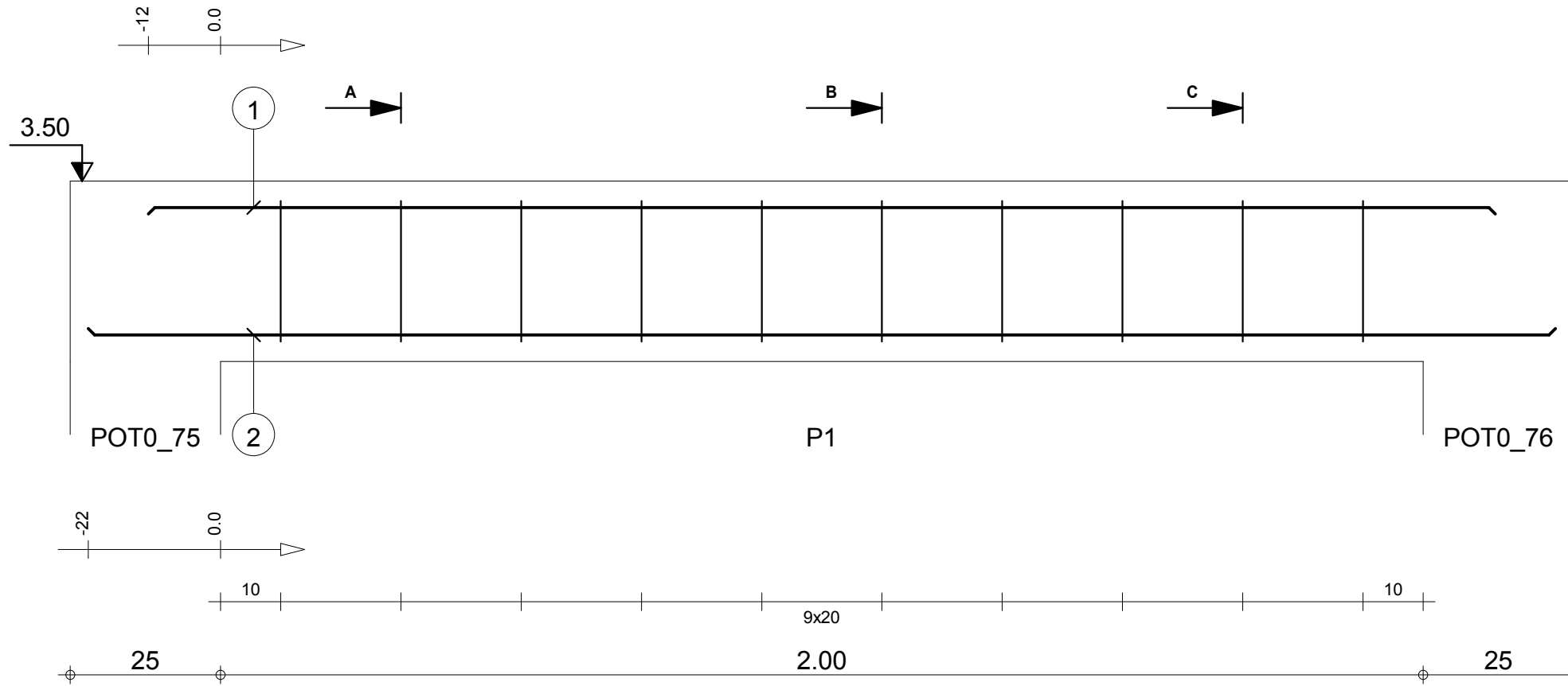
Acier HA 400 = 7.06 kg

Acier HA 400 = 15 kg

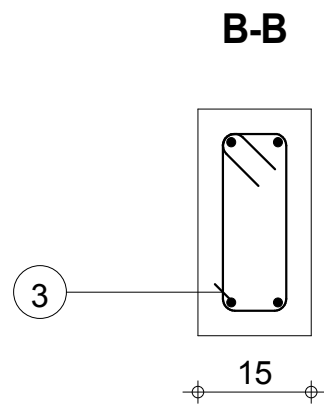
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MINHDU_BAMBOUTOS_POUTRES

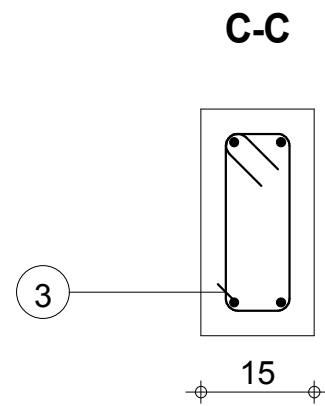
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| ① | 2HA 12 | l=2.24 | 00 2.24 |
| ② | 2HA 12 | l=2.44 | 00 2.44 |
| ③ | 10HA 6 | l=78 | 31  |



30



30



30

Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

POU H.1314: P1

Section 15x30

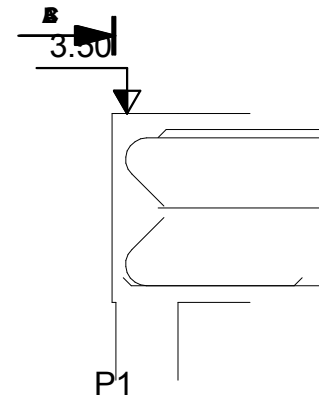
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.112 m3

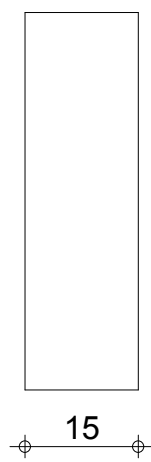
Acier HA 400 = 1.73 kg

Acier HA 400 = 8.31 kg



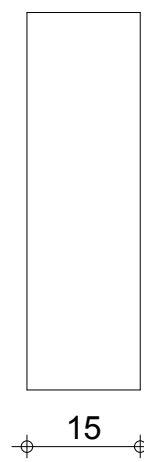
1 17

A-A



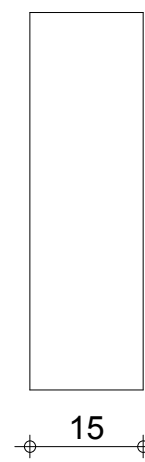
50

B-B



50

C-C



50

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU I.1014: P1

Section 15x50

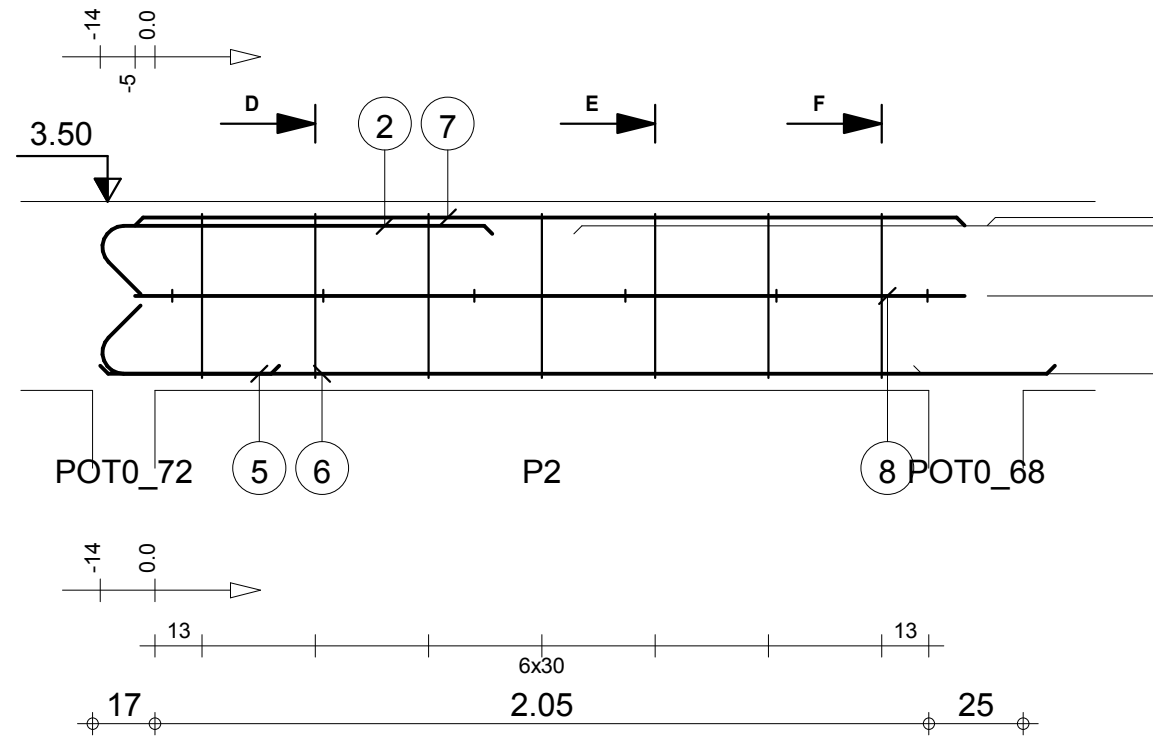
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

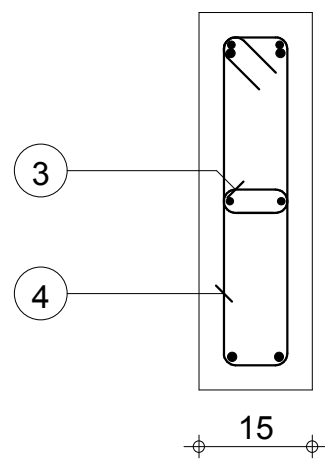
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MINHDU_BAMBOUTOS_POUTRES

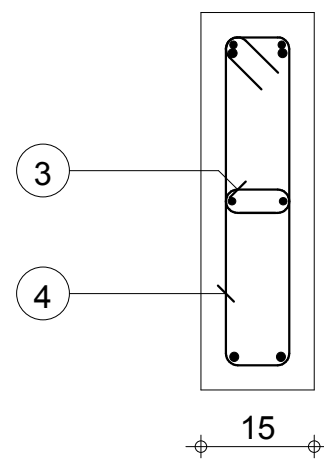
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=1.23 | 00 | |
| ③ | 6HA 6 | l=25 | 00 | |
| ④ | 7HA 6 | l=1.18 | 31 | |
| ⑤ | 2HA 12 | l=66 | 00 | |
| ⑥ | 2HA 12 | l=2.53 | 00 | |
| ⑦ | 2HA 10 | l=2.20 | 00 | |
| ⑧ | 2HA 10 | l=2.20 | 00 | |



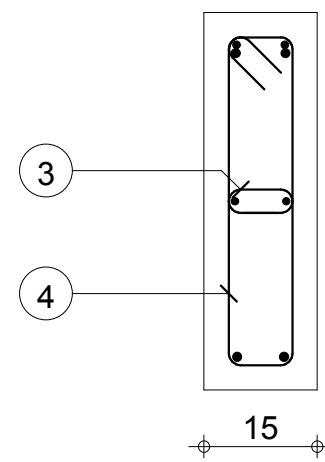
D-D



E-E



F-F



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU I.1014: P2
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

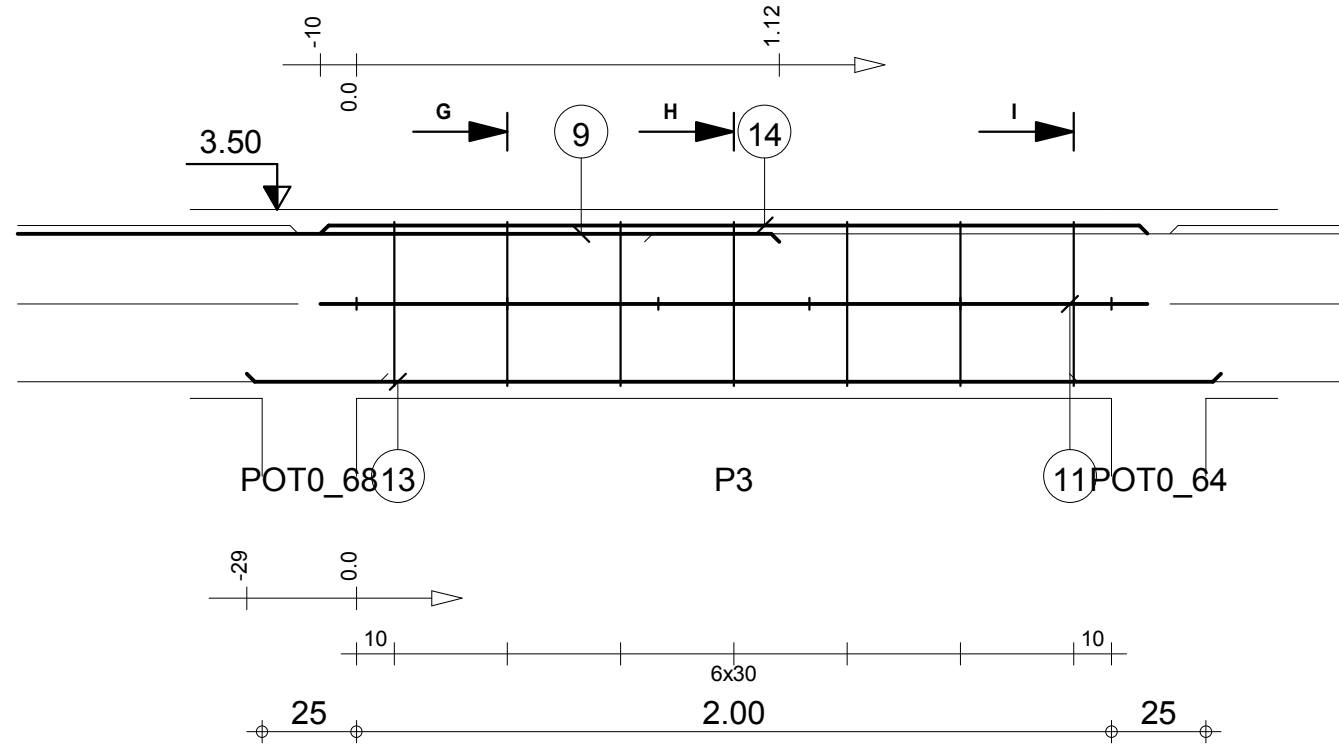
Page 2/5

Béton : BETON20 = 0.169 m3
Acier HA 400 = 4.87 kg
Acier HA 400 = 10.6 kg

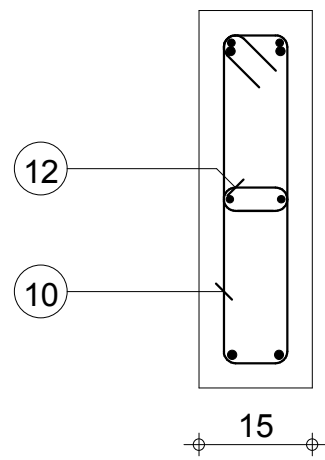
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MINHDU_BAMBOUTOS_POUTRES

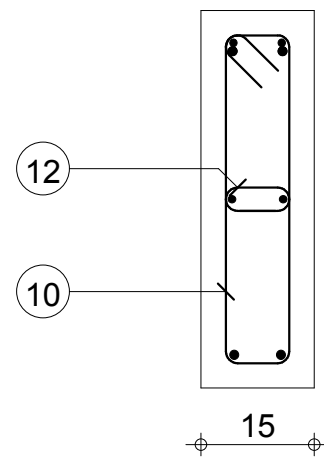
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 9 | 2HA 12 | l=2.31 | 00 | 2.31 |
| 10 | 7HA 6 | l=1.18 | 31 | |
| 11 | 2HA 10 | l=2.19 | 00 | 2.19 |
| 12 | 6HA 6 | l=25 | 00 | |
| 13 | 2HA 12 | l=2.58 | 00 | 2.58 |
| 14 | 2HA 10 | l=2.19 | 00 | 2.19 |



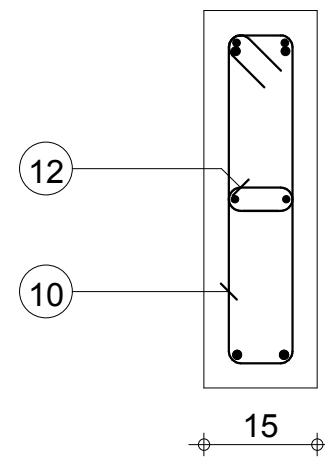
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU I.1014: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.169 m3

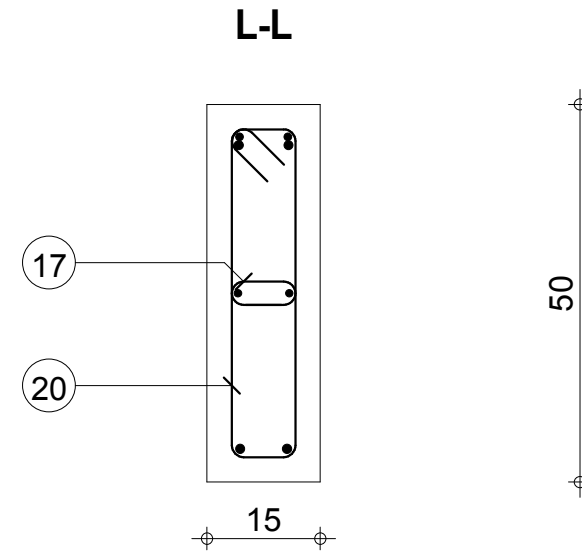
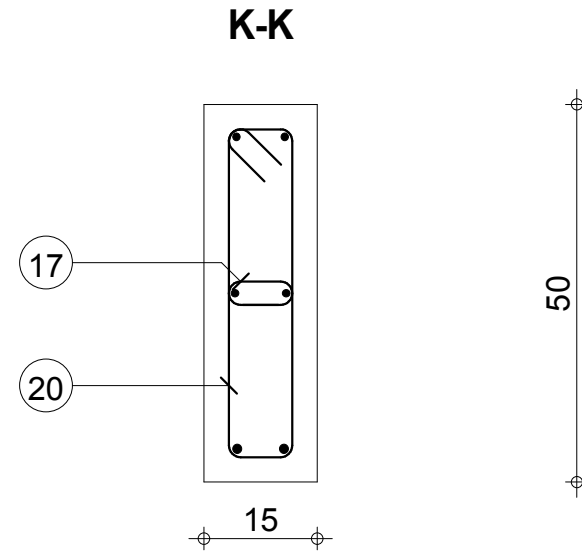
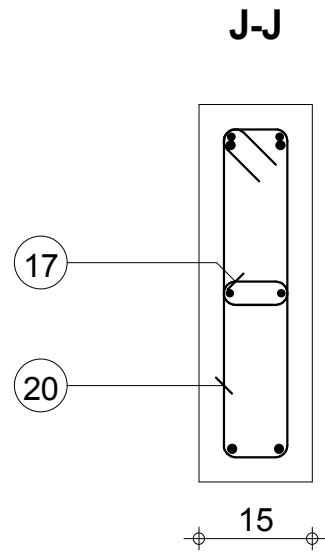
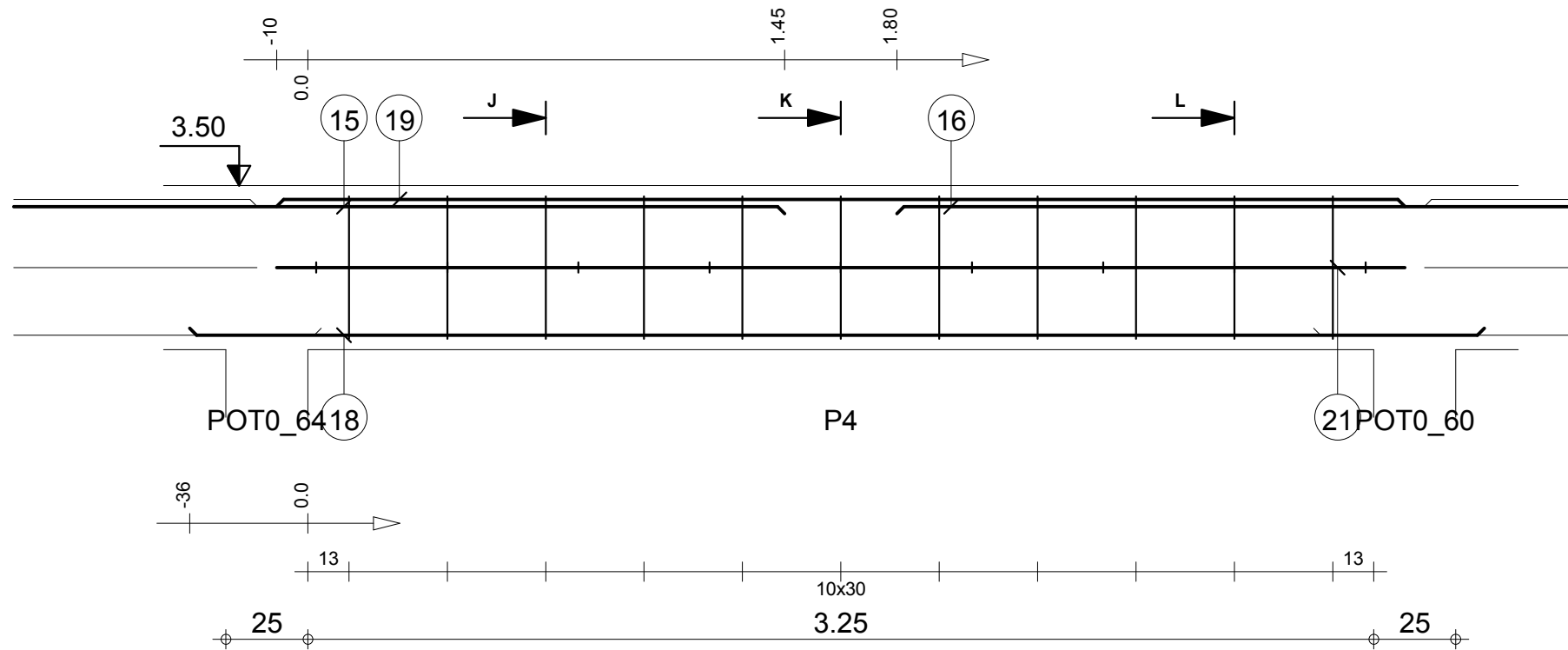
Acier HA 400 = 4.86 kg

Acier HA 400 = 11.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|--------|
| 15 | 2HA 12 | l=2.94 | 00 | 2.94 |
| 16 | 2HA 12 | l=2.81 | 00 | 2.81 |
| 17 | 9HA 6 | l=25 | 00 | 9 |
| 18 | 2HA 12 | l=3.95 | 00 | 3.95 |
| 19 | 2HA 10 | l=3.44 | 00 | 3.44 |
| 20 | 11HA 6 | l=1.18 | 31 | 9 8 |
| 21 | 2HA 10 | l=3.44 | 00 | 3.44 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU I.1014: P4
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

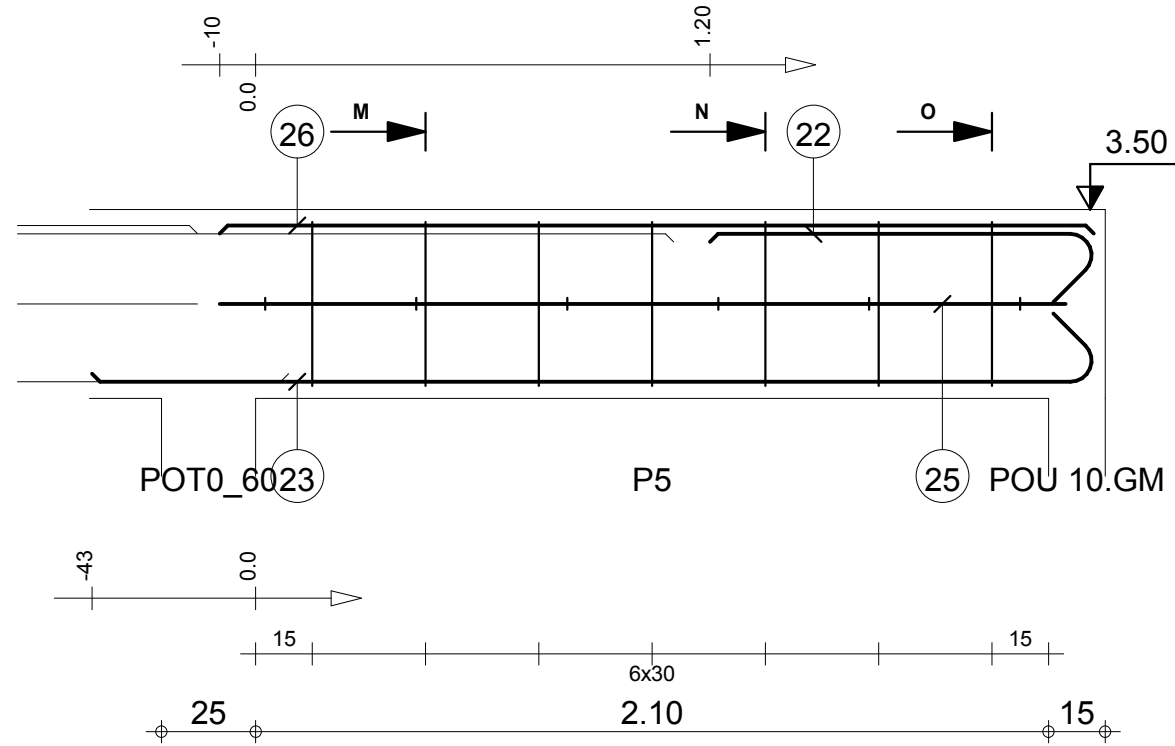
Page 4/5

Béton : BETON20 = 0.263 m3
Acier HA 400 = 7.62 kg
Acier HA 400 = 21.5 kg

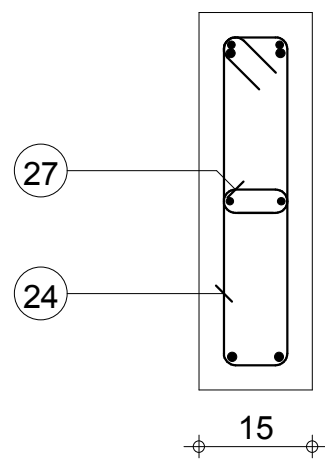
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MINHDU_BAMBOUTOS_POUTRES

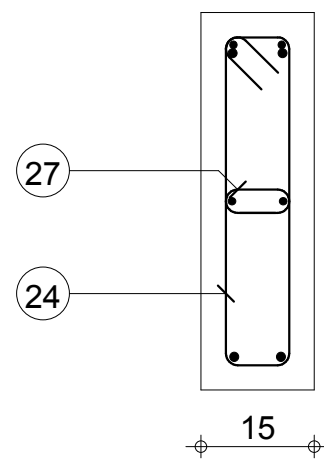
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 22 | 2HA 12 | l=1.21 | 00 | 1.02 |
| 23 | 2HA 12 | l=2.84 | 00 | 2.65 |
| 24 | 7HA 6 | l=1.18 | 31 | |
| 25 | 2HA 10 | l=2.24 | 00 | 2.24 |
| 26 | 2HA 10 | l=2.31 | 00 | 2.32 |
| 27 | 6HA 6 | l=25 | 00 | |



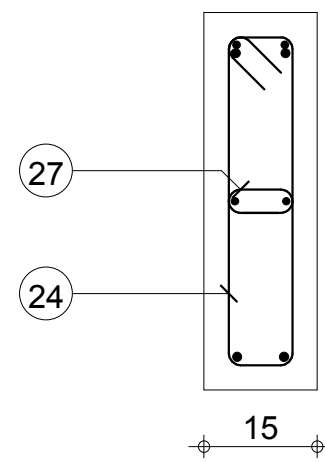
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU I.1014: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

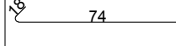
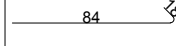
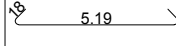
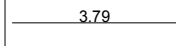
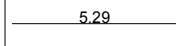
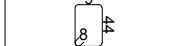
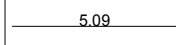
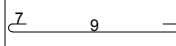
Béton : BETON20 = 0.178 m3

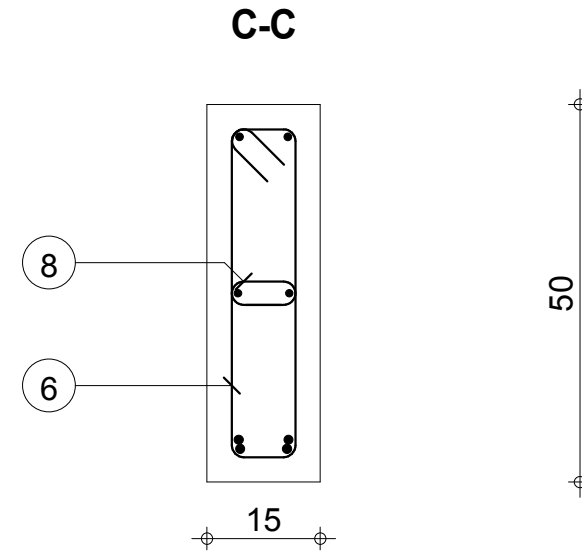
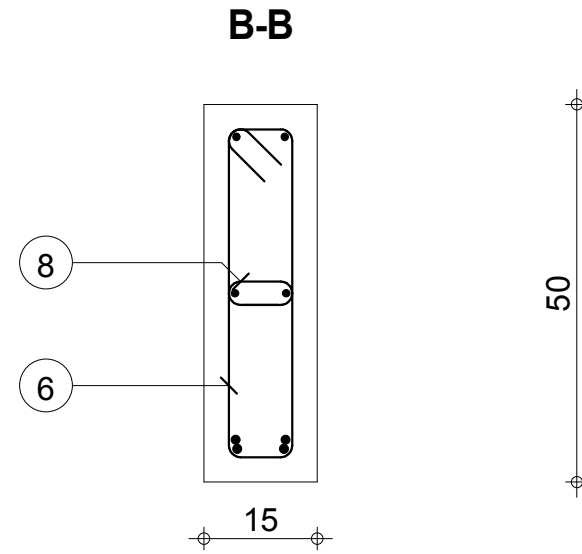
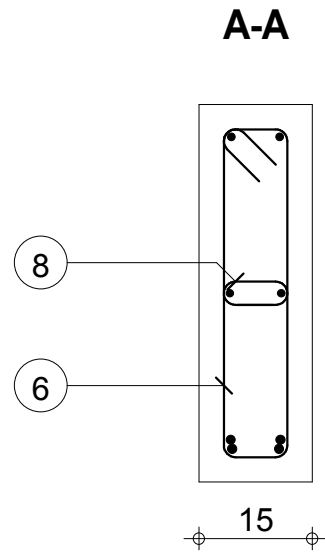
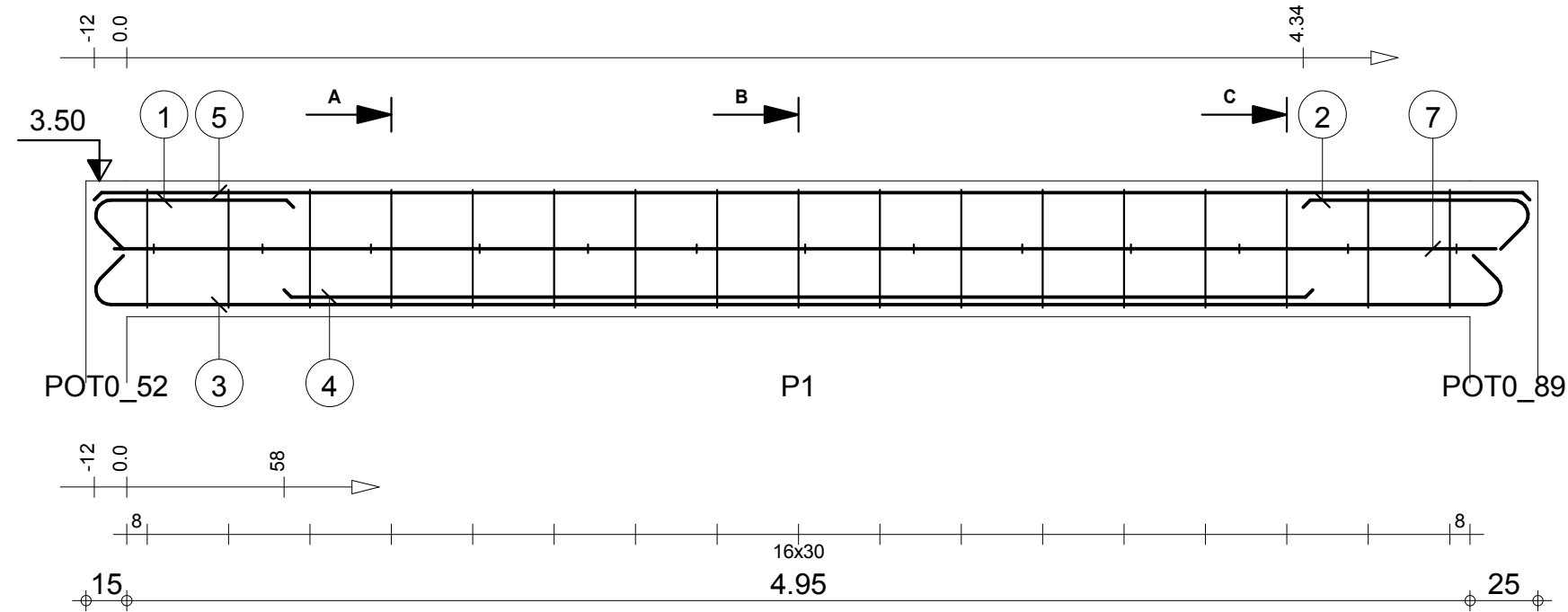
Acier HA 400 = 4.93 kg

Acier HA 400 = 10 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| ① | 2HA 12 | l=93 | 00  |
| ② | 2HA 12 | l=1.02 | 00  |
| ③ | 2HA 12 | l=5.57 | 00  |
| ④ | 2HA 12 | l=3.79 | 00  |
| ⑤ | 2HA 10 | l=5.29 | 00  |
| ⑥ | 17HA 6 | l=1.18 | 31  |
| ⑦ | 2HA 10 | l=5.09 | 00  |
| ⑧ | 13HA 6 | l=25 | 00  |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU I.89: P1

Section 15x50

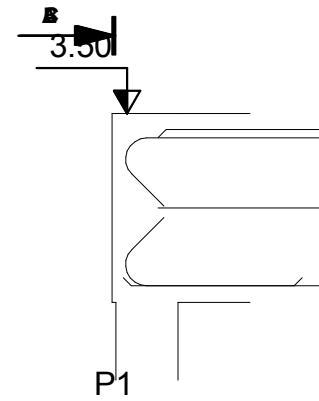
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.401 m³

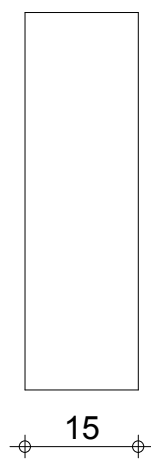
Acier HA 400 = 11.4 kg

Acier HA 400 = 26.6 kg

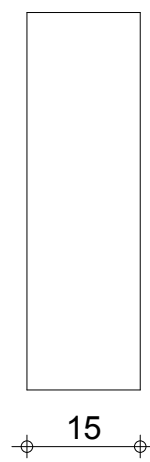


1 17

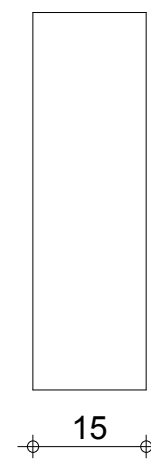
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU J.1014: P1

Section 15x50

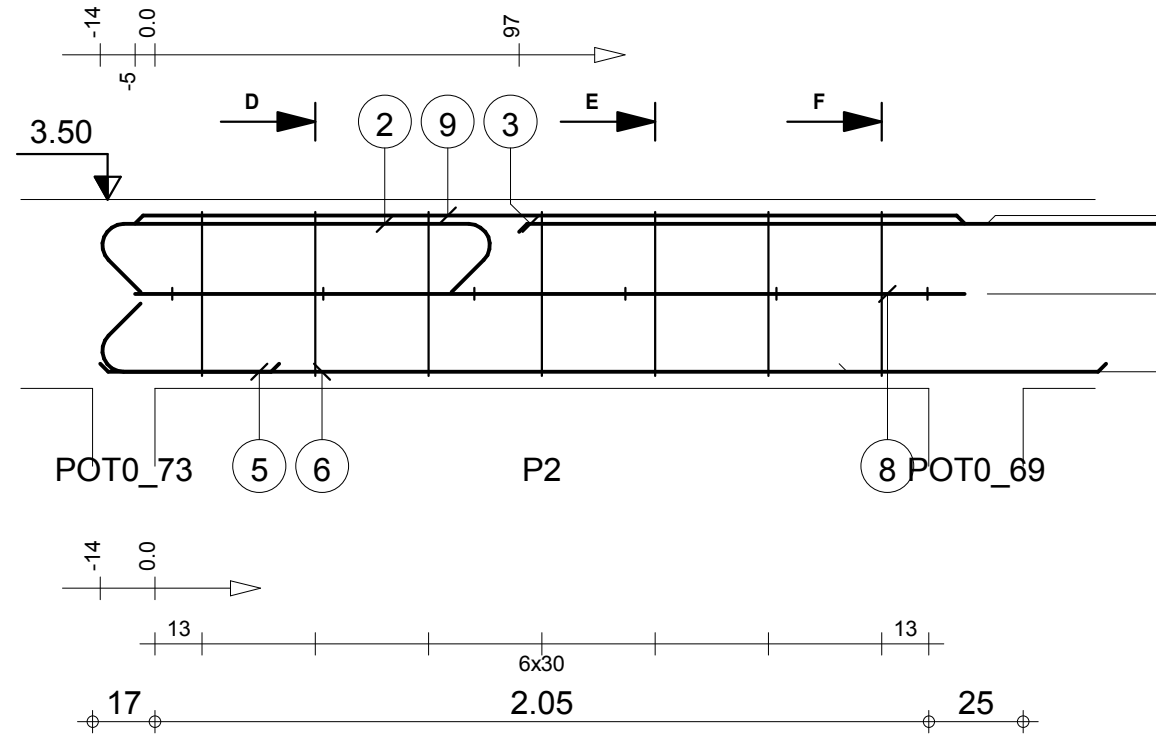
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

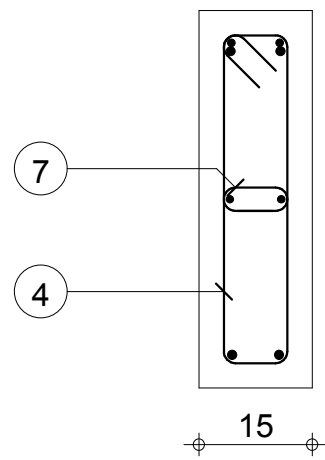
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MINHDU_BAMBOUTOS_POUTRES

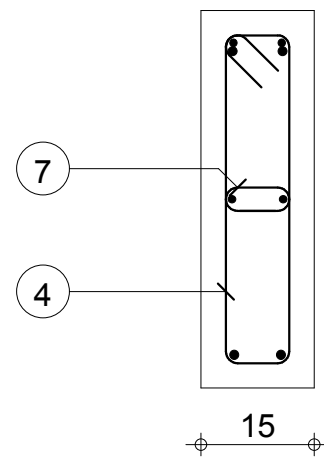
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=1.42 | 00 | |
| ③ | 2HA 12 | l=2.41 | 00 | |
| ④ | 7HA 6 | l=1.18 | 31 | |
| ⑤ | 2HA 12 | l=66 | 00 | |
| ⑥ | 2HA 12 | l=2.67 | 00 | |
| ⑦ | 6HA 6 | l=25 | 00 | |
| ⑧ | 2HA 10 | l=2.20 | 00 | |
| ⑨ | 2HA 10 | l=2.20 | 00 | |



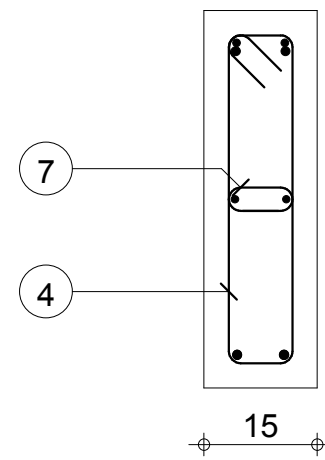
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU J.1014: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.169 m³

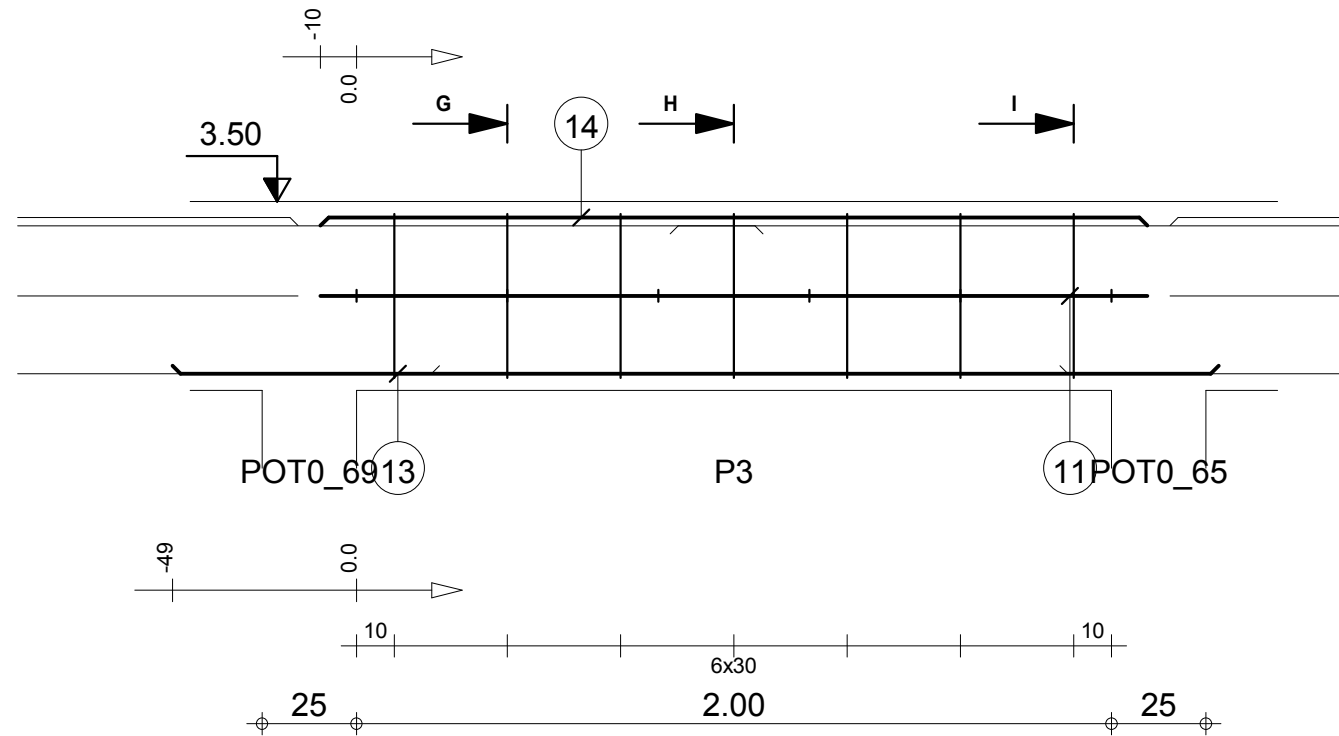
Acier HA 400 = 4.87 kg

Acier HA 400 = 15.4 kg

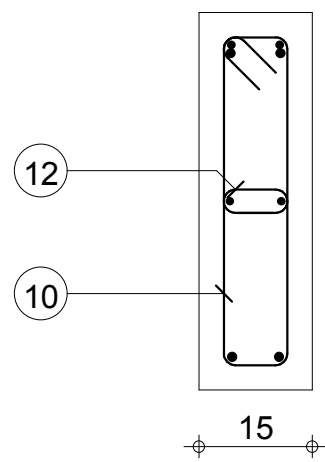
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MINHDU_BAMBOUTOS_POUTRES

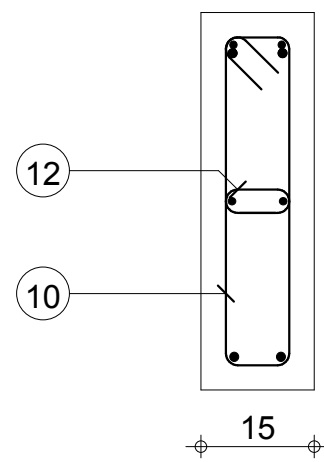
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ⑩ | 7HA 6 | l=1.18 | 31 | |
| ⑪ | 2HA 10 | l=2.19 | 00 | |
| ⑫ | 6HA 6 | l=25 | 00 | |
| ⑬ | 2HA 12 | l=2.77 | 00 | |
| ⑭ | 2HA 10 | l=2.19 | 00 | |



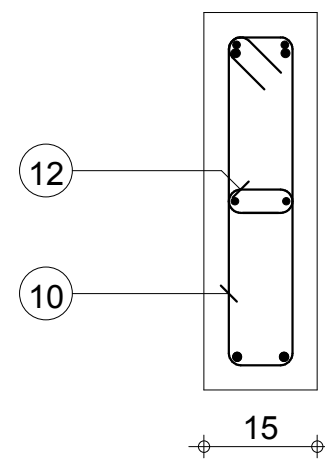
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU J.1014: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.169 m3

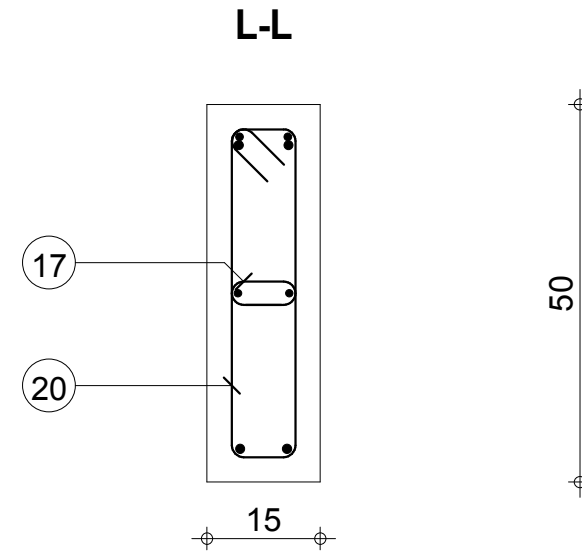
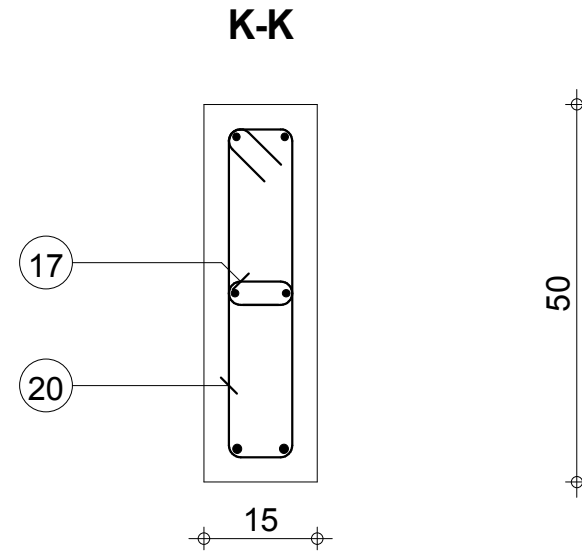
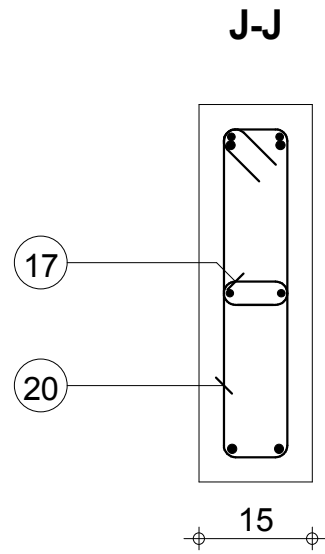
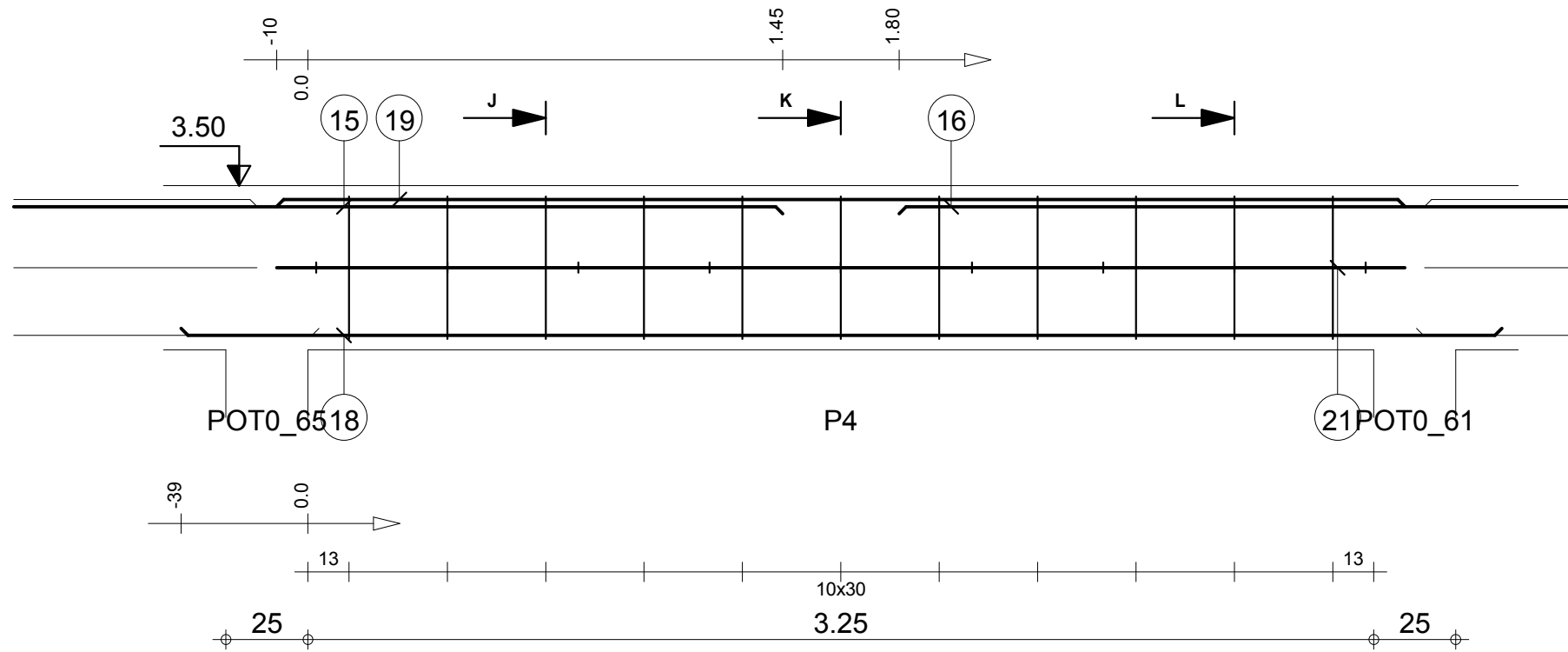
Acier HA 400 = 4.86 kg

Acier HA 400 = 7.62 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|--------|
| 15 | 2HA 12 | l=2.87 | 00 | 2.87 |
| 16 | 2HA 12 | l=2.56 | 00 | 2.56 |
| 17 | 9HA 6 | l=25 | 00 | 9 |
| 18 | 2HA 12 | l=4.03 | 00 | 4.03 |
| 19 | 2HA 10 | l=3.44 | 00 | 3.44 |
| 20 | 11HA 6 | l=1.18 | 31 | 9 8 |
| 21 | 2HA 10 | l=3.44 | 00 | 3.44 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU J.1014: P4
Section 15x50


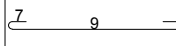
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

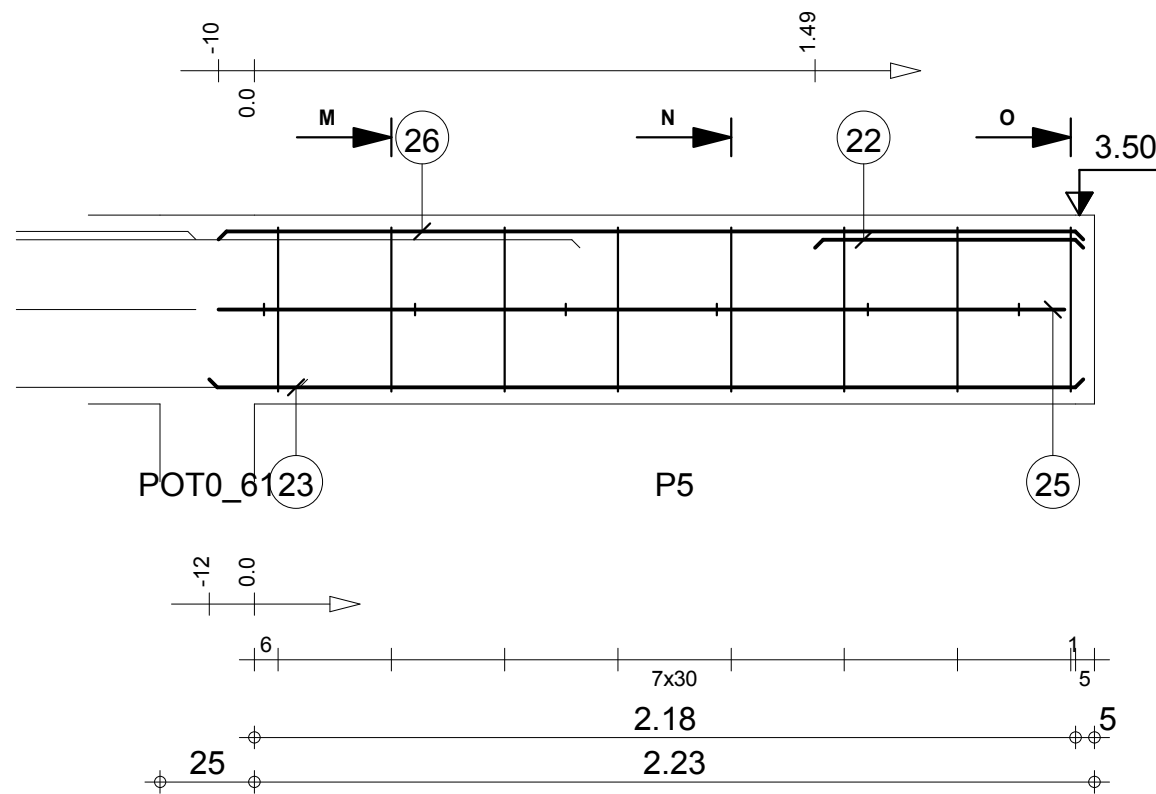
Page 4/5

Béton : BETON20 = 0.263 m3
Acier HA 400 = 7.62 kg
Acier HA 400 = 21 kg

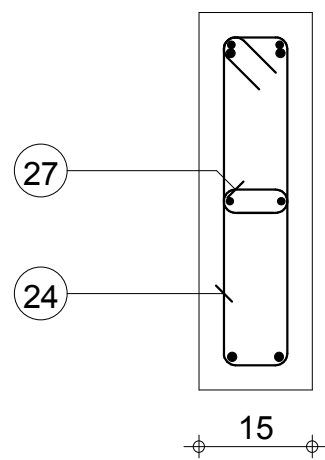
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MINHDU_BAMBOUTOS_POUTRES

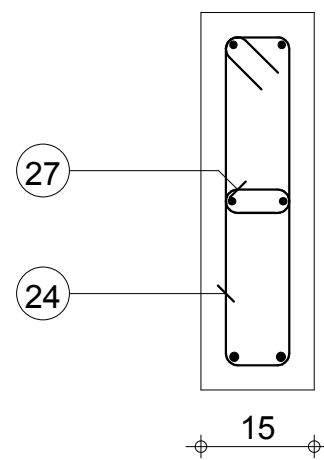
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 22 | 2HA 12 | l=71 | 00 | 71 |
| 23 | 2HA 12 | l=2.31 | 00 | 2.32 |
| 24 | 8HA 6 | l=1.18 | 31 |  |
| 25 | 2HA 10 | l=2.24 | 00 | 2.24 |
| 26 | 2HA 10 | l=2.29 | 00 | 2.29 |
| 27 | 6HA 6 | l=25 | 00 |  |



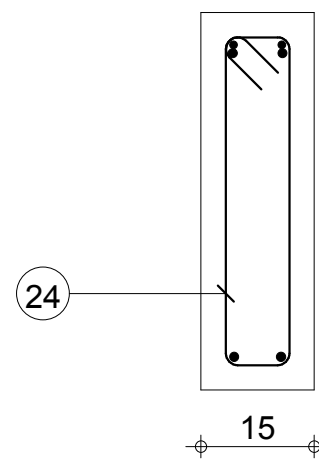
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU J.1014: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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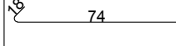
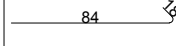
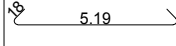
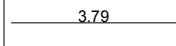
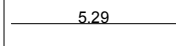
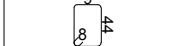
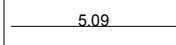
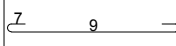
Béton : BETON20 = 0.176 m3

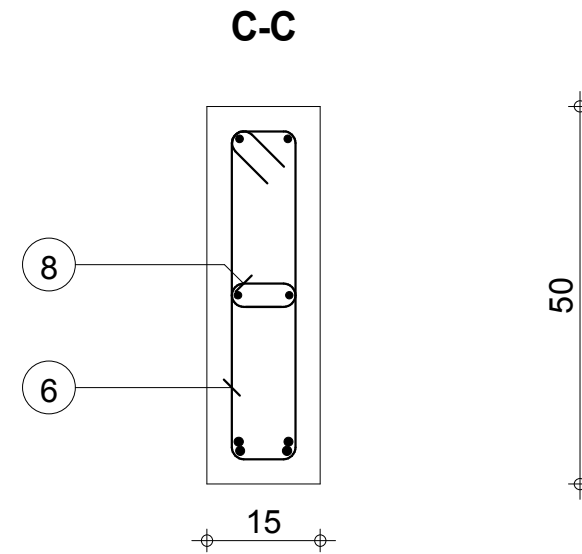
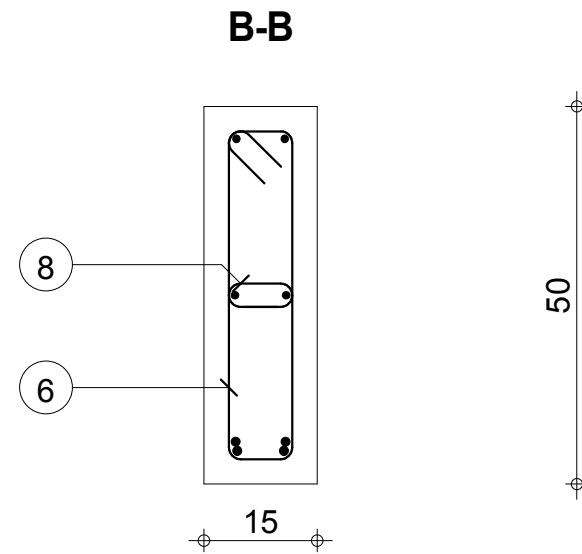
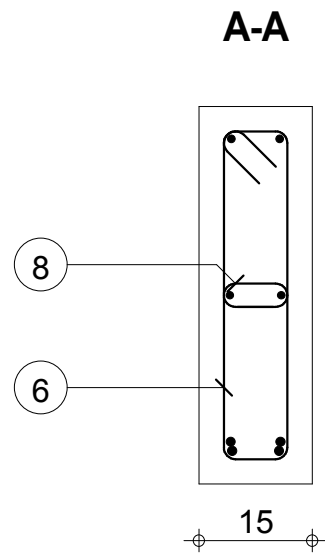
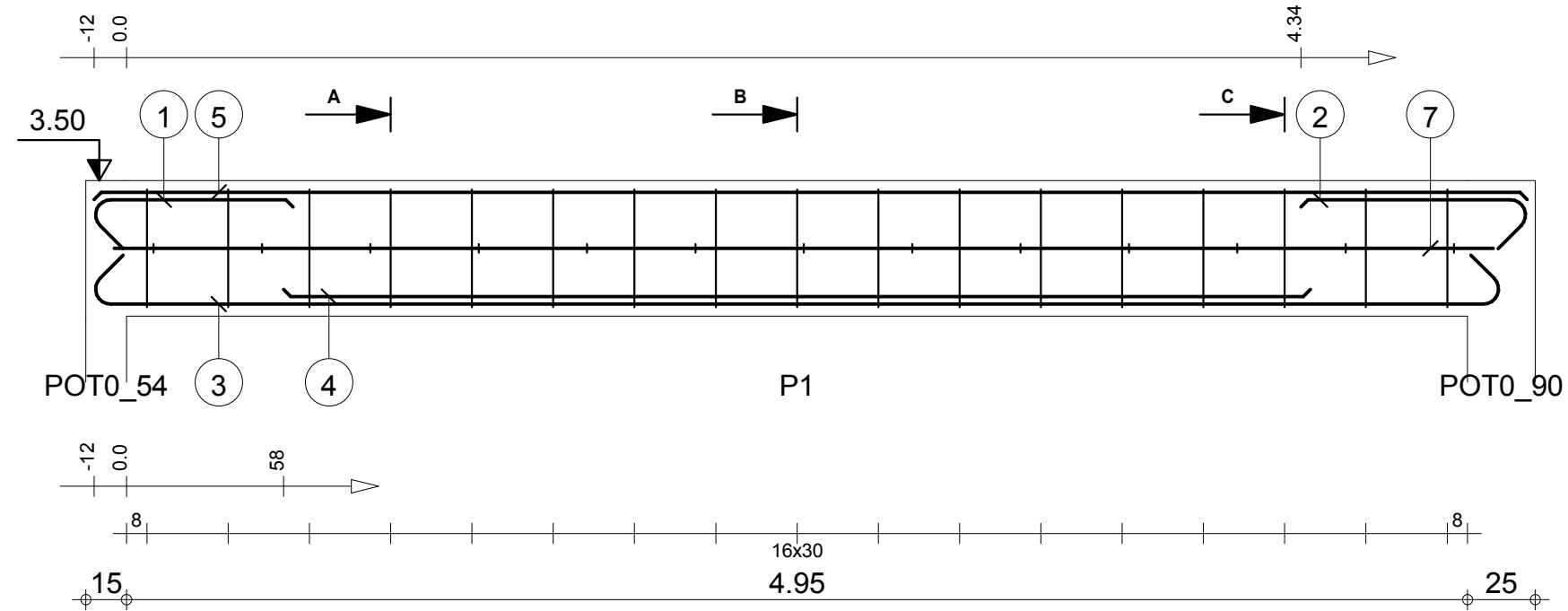
Acier HA 400 = 5.19 kg

Acier HA 400 = 8.19 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| ① | 2HA 12 | l=93 | 00  |
| ② | 2HA 12 | l=1.02 | 00  |
| ③ | 2HA 12 | l=5.57 | 00  |
| ④ | 2HA 12 | l=3.79 | 00  |
| ⑤ | 2HA 10 | l=5.29 | 00  |
| ⑥ | 17HA 6 | l=1.18 | 31  |
| ⑦ | 2HA 10 | l=5.09 | 00  |
| ⑧ | 13HA 6 | l=25 | 00  |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU J.89: P1

Section 15x50

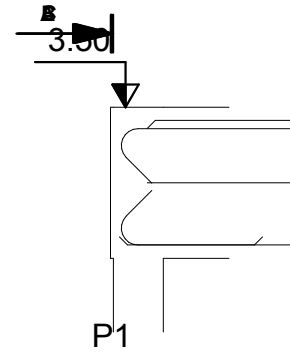
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1

Béton : BETON20 = 0.401 m³

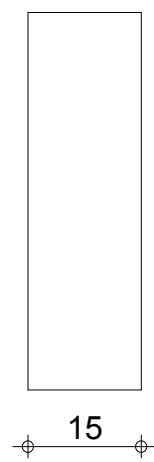
Acier HA 400 = 11.4 kg

Acier HA 400 = 26.6 kg



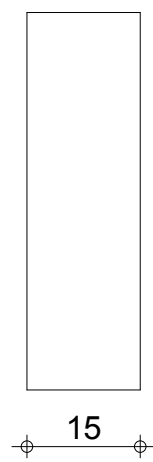
1 17

A-A



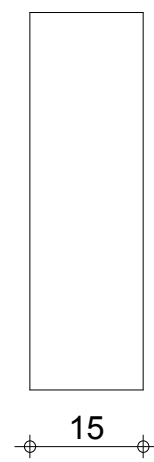
50

B-B



50

C-C



50

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU K.29: P1

Section 15x50

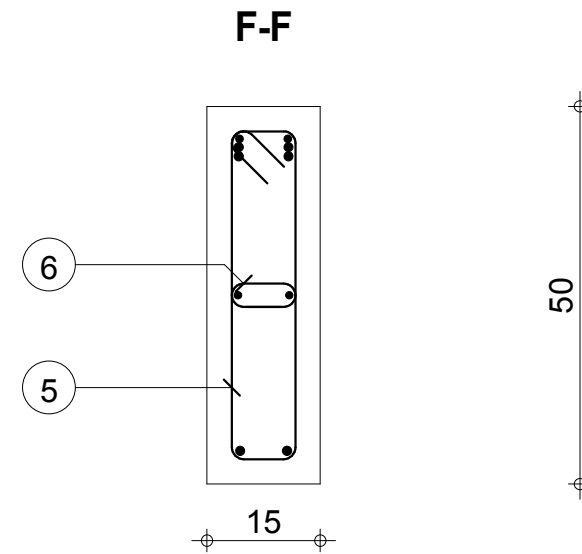
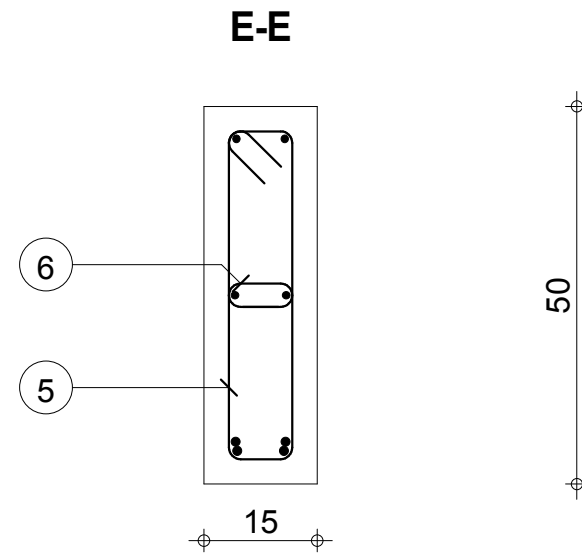
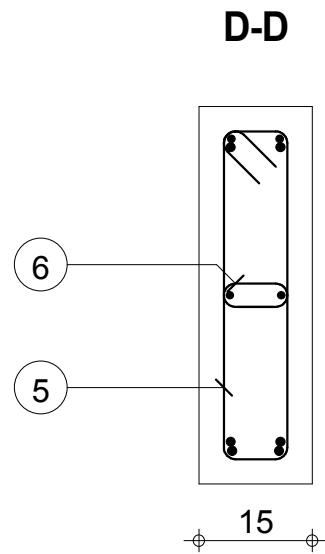
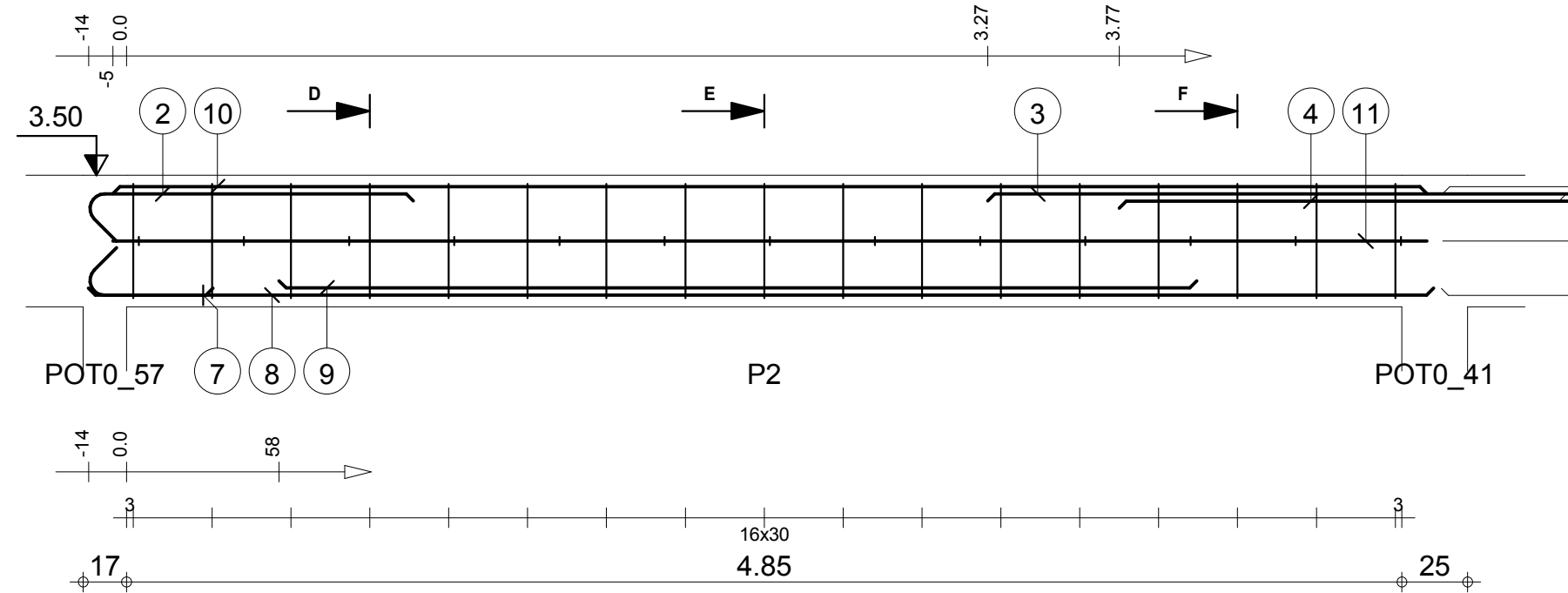
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=1.43 | 00 | |
| ③ | 2HA 12 | l=3.13 | 00 | |
| ④ | 2HA 12 | l=2.37 | 00 | |
| ⑤ | 17HA 6 | l=1.18 | 31 | |
| ⑥ | 13HA 6 | l=25 | 00 | |
| ⑦ | 2HA 12 | l=66 | 00 | |
| ⑧ | 2HA 12 | l=5.12 | 00 | |
| ⑨ | 2HA 12 | l=3.49 | 00 | |
| ⑩ | 2HA 10 | l=5.00 | 00 | |
| ⑪ | 2HA 10 | l=5.00 | 00 | |



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

POU K.29: P2
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

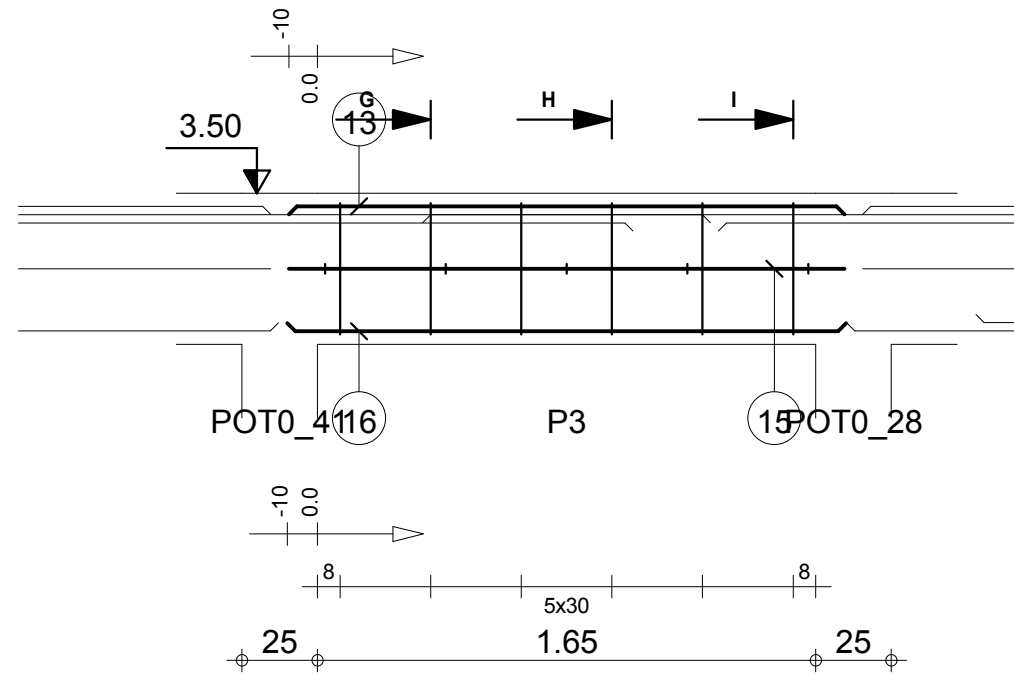
Page 2/6

Béton : BETON20 = 0.379 m3
Acier HA 400 = 11.3 kg
Acier HA 400 = 34.9 kg

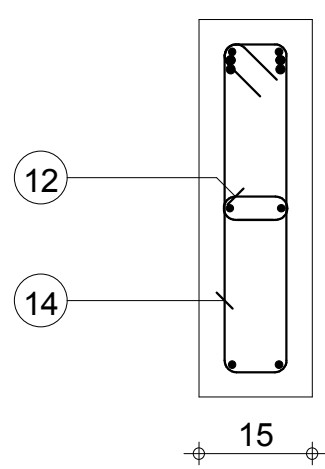
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MINHDU_BAMBOUTOS_POUTRES

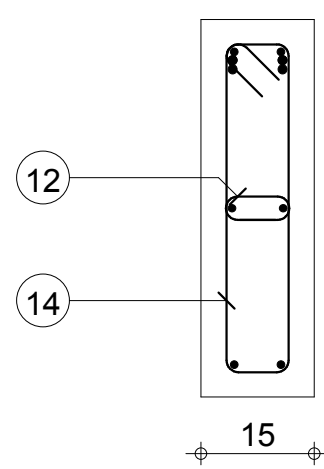
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 12 | 5HA 6 | l=25 | 00 | |
| 13 | 2HA 10 | l=1.84 | 00 | |
| 14 | 6HA 6 | l=1.17 | 31 | |
| 15 | 2HA 10 | l=1.84 | 00 | |
| 16 | 2HA 10 | l=1.85 | 00 | |



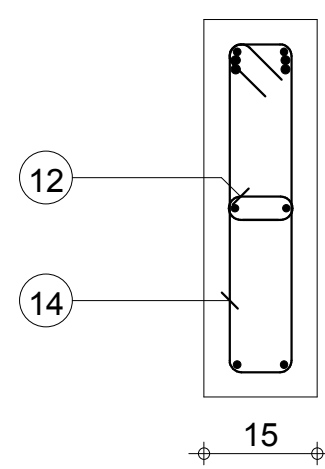
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU K.29: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/6

Béton : BETON20 = 0.142 m3

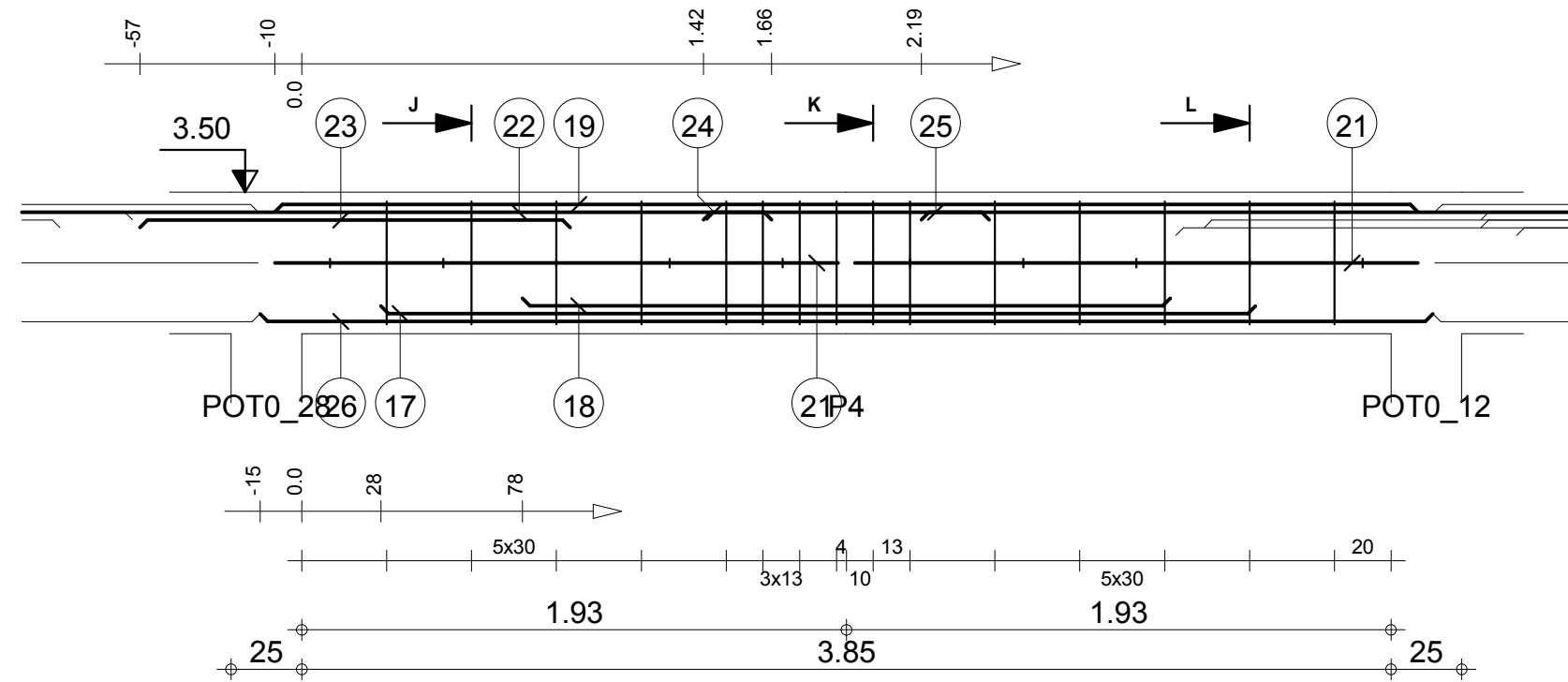
Acier HA 400 = 4.11 kg

Acier HA 400 = 4.55 kg

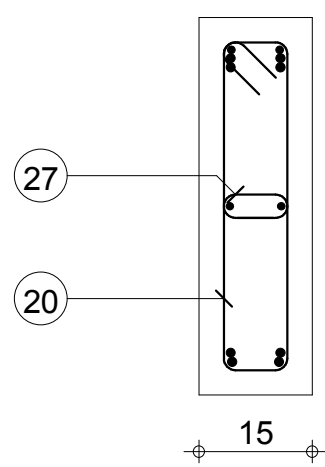
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MINHDU_BAMBOUTOS_POUTRES

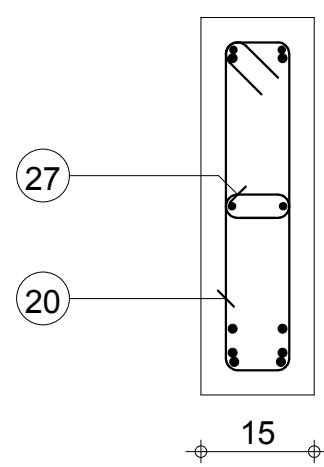
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 17 | 2HA 12 | l=3.09 | 00 | 3.09 |
| 18 | 2HA 12 | l=2.29 | 00 | 2.29 |
| 19 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 20 | 15HA 6 | l=1.18 | 31 | |
| 21 | 2*2HA 10 | l=1.99 | 00 | 1.99 |
| 22 | 2HA 12 | l=3.21 | 00 | 3.21 |
| 23 | 2HA 12 | l=1.52 | 00 | 1.52 |
| 24 | 2HA 12 | l=1.01 | 00 | 1.01 |
| 25 | 2HA 12 | l=2.97 | 00 | 2.97 |
| 26 | 2HA 12 | l=4.15 | 00 | 4.14 |
| 27 | 2*5HA 6 | l=25 | 00 | |



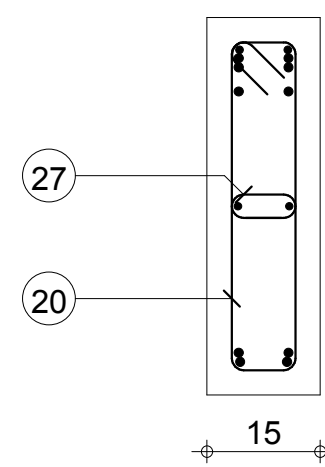
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU K.29: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/6

Béton : BETON20 = 0.308 m3

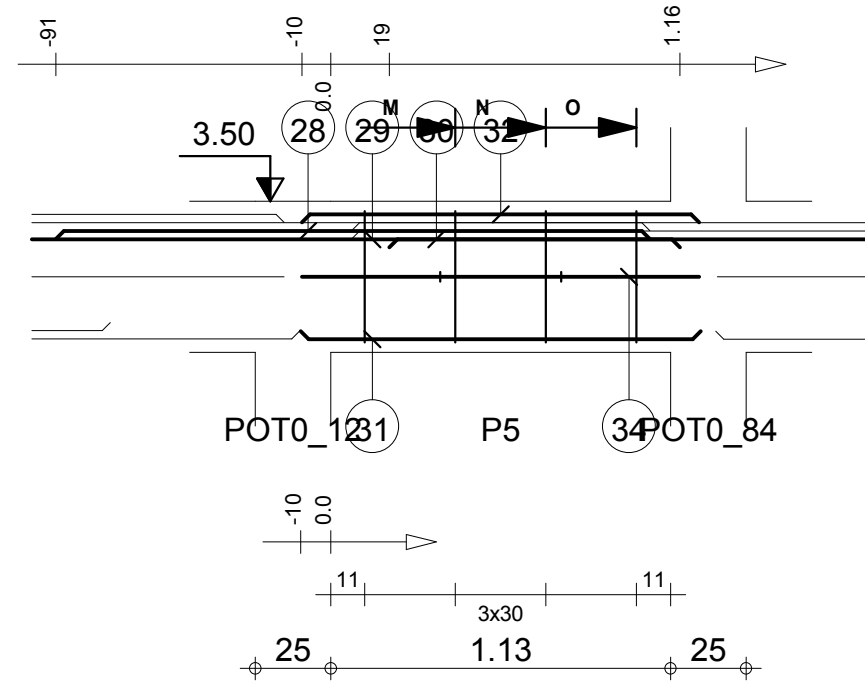
Acier HA 400 = 9.39 kg

Acier HA 400 = 37.4 kg

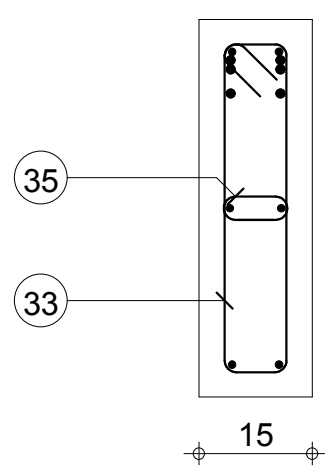
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MINHDU_BAMBOUTOS_POUTRES

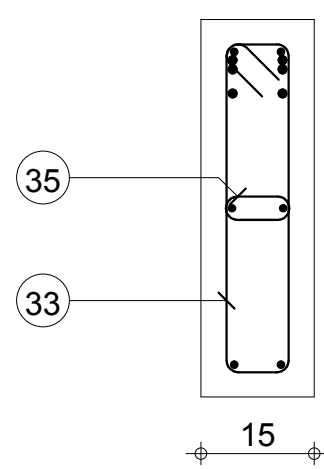
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 28 | 2HA 12 | l=1.97 | 00 | 1.97 |
| 29 | 2HA 12 | l=2.17 | 00 | 2.17 |
| 30 | 2HA 12 | l=1.78 | 00 | 1.78 |
| 31 | 2HA 10 | l=1.33 | 00 | 1.33 |
| 32 | 2HA 10 | l=1.31 | 00 | 1.32 |
| 33 | 4HA 6 | l=1.17 | 31 | |
| 34 | 2HA 10 | l=1.31 | 00 | 1.32 |
| 35 | 2HA 6 | l=25 | 00 | |



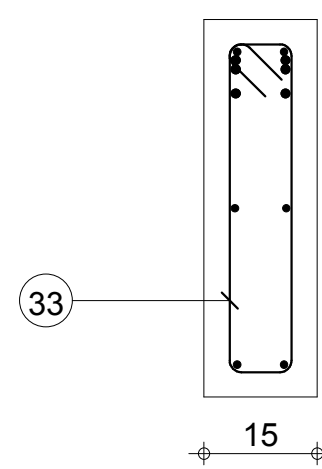
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU K.29: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/6

Béton : BETON20 = 0.103 m³

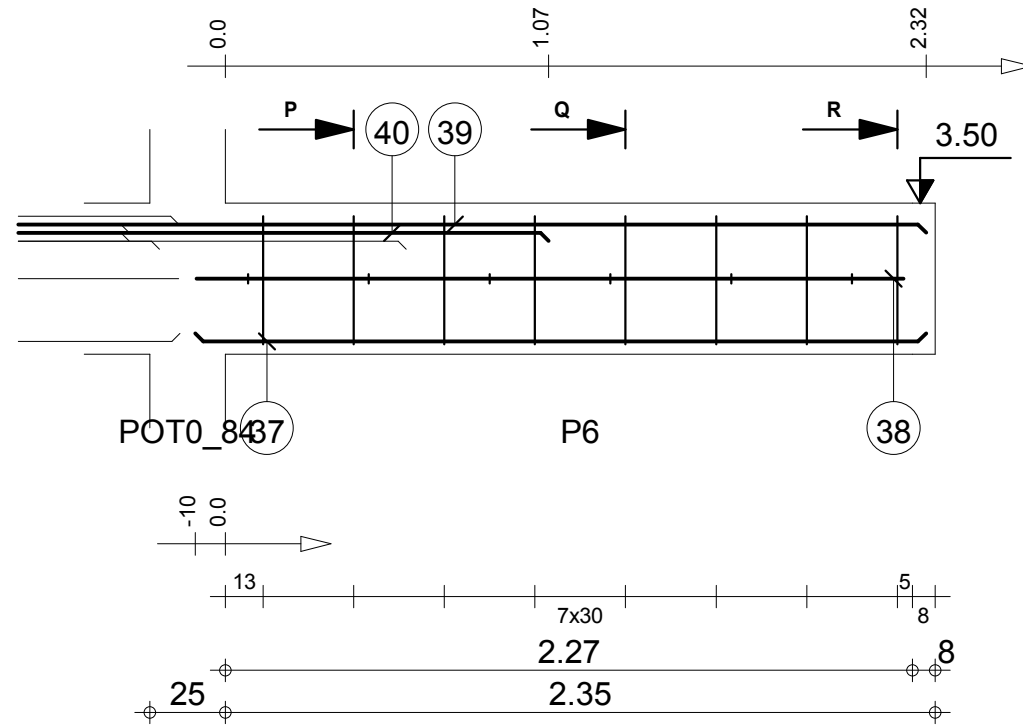
Acier HA 400 = 2.78 kg

Acier HA 400 = 13.8 kg

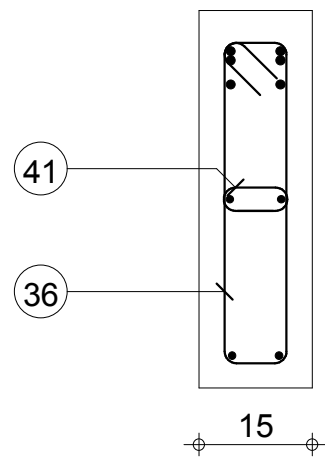
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MINHDU_BAMBOUTOS_POUTRES

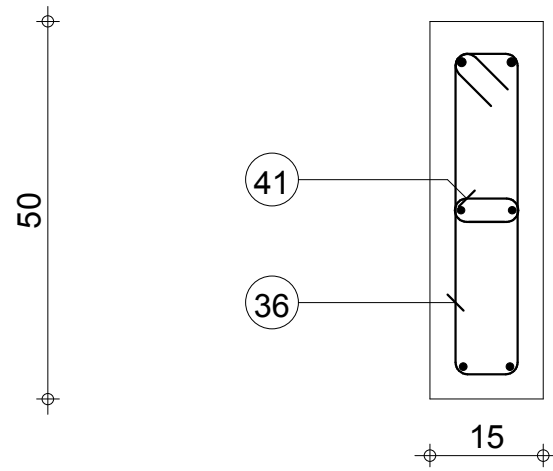
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 36 | 8HA 6 | l=1.15 | 31 | |
| 37 | 2HA 10 | l=2.42 | 00 | |
| 38 | 2HA 10 | l=2.34 | 00 | |
| 39 | 2HA 12 | l=3.63 | 00 | |
| 40 | 2HA 12 | l=2.38 | 00 | |
| 41 | 6HA 6 | l=25 | 00 | |



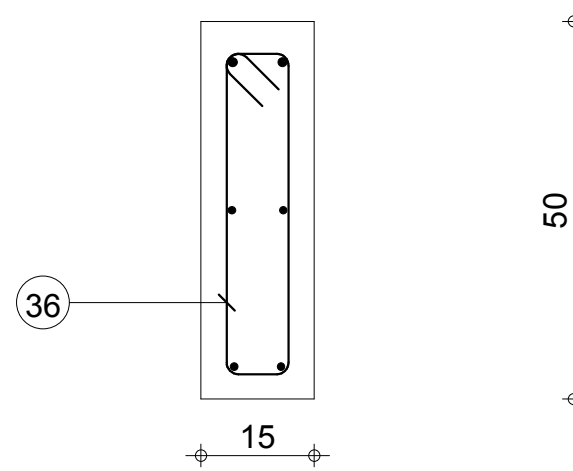
P-P



Q-Q



R-R



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU K.29: P6

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 6/6

Béton : BETON20 = 0.186 m3

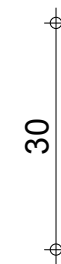
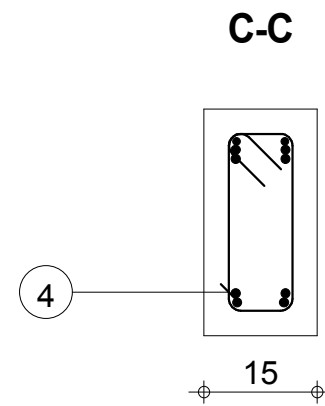
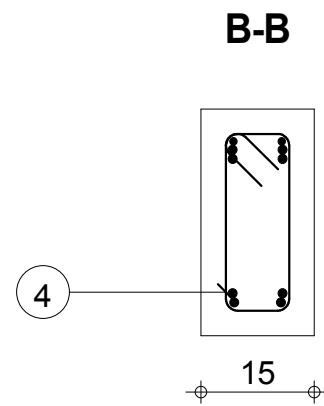
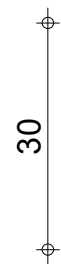
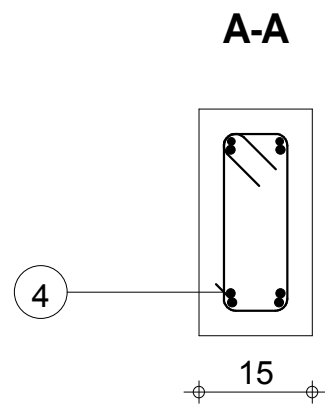
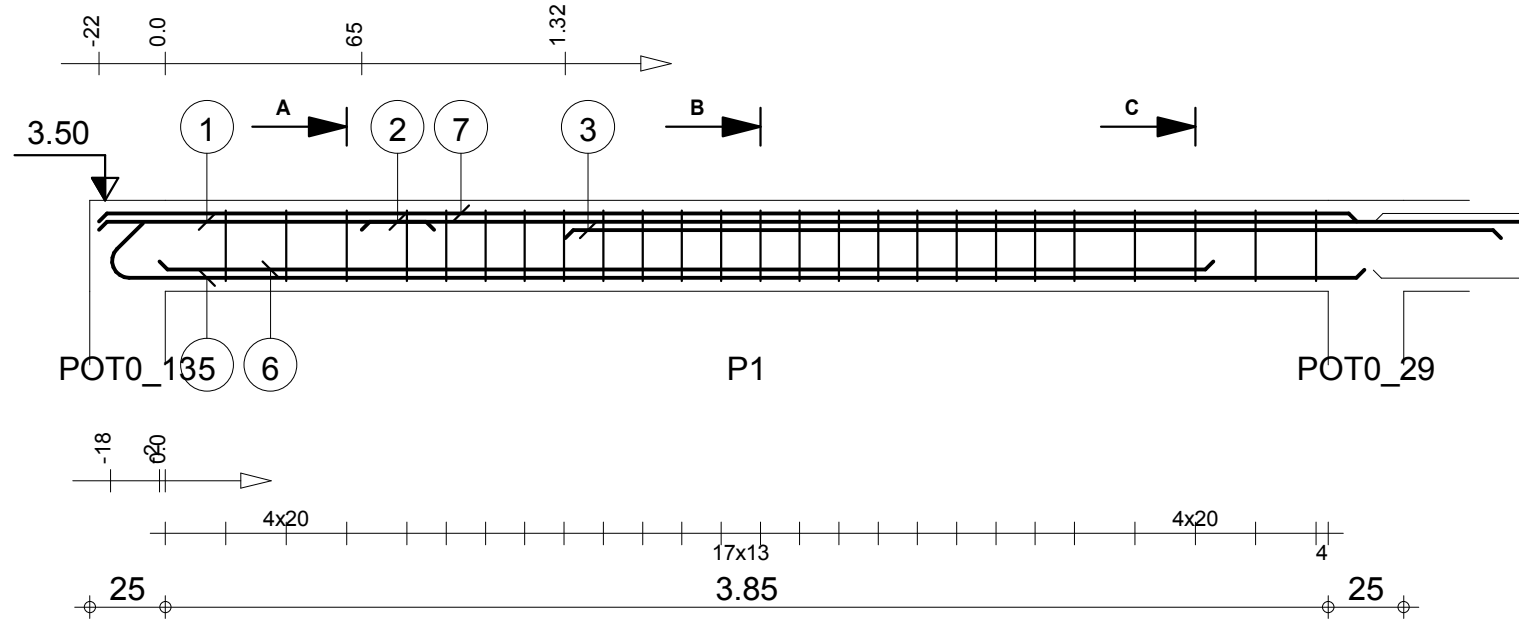
Acier HA 400 = 5.27 kg

Acier HA 400 = 13.6 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.11 | 00 | 1.11 |
| ② | 2HA 12 | l=4.61 | 00 | 4.61 |
| ③ | 2HA 12 | l=3.10 | 00 | 3.10 |
| ④ | 25HA 6 | l=78 | 31 | |
| ⑤ | 2HA 12 | l=4.34 | 00 | 4.15 |
| ⑥ | 2HA 12 | l=3.49 | 00 | 3.49 |
| ⑦ | 2HA 10 | l=4.17 | 00 | 4.17 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU L.49: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.19 m3

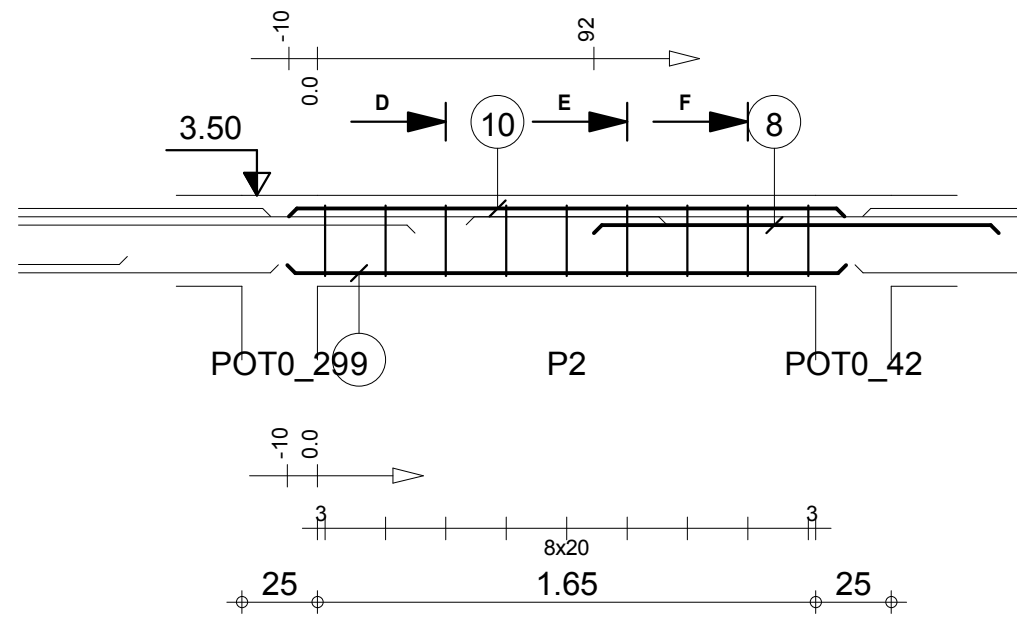
Acier HA 400 = 4.32 kg

Acier HA 400 = 34.7 kg

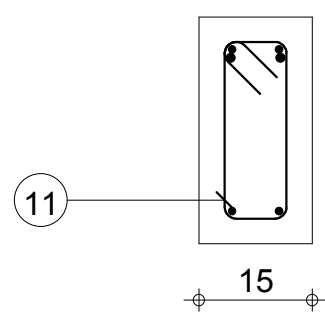
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MINHDU_BAMBOUTOS_POUTRES

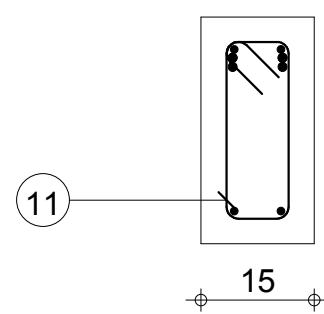
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 8 | 2HA 12 | l=1.34 | 00 | 1.34 |
| 9 | 2HA 10 | l=1.85 | 00 | 1.85 |
| 10 | 2HA 10 | l=1.84 | 00 | 1.84 |
| 11 | 9HA 6 | l=77 | 31 | |



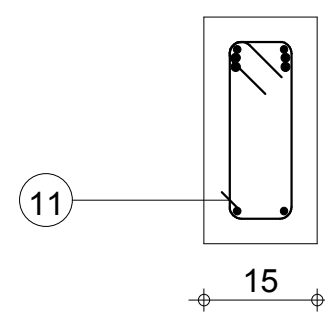
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU L.49: P2

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.0855 m3

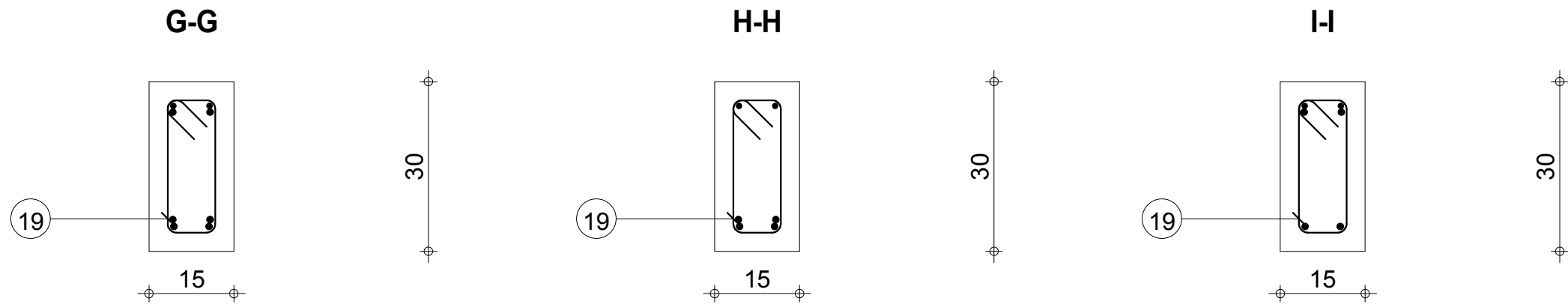
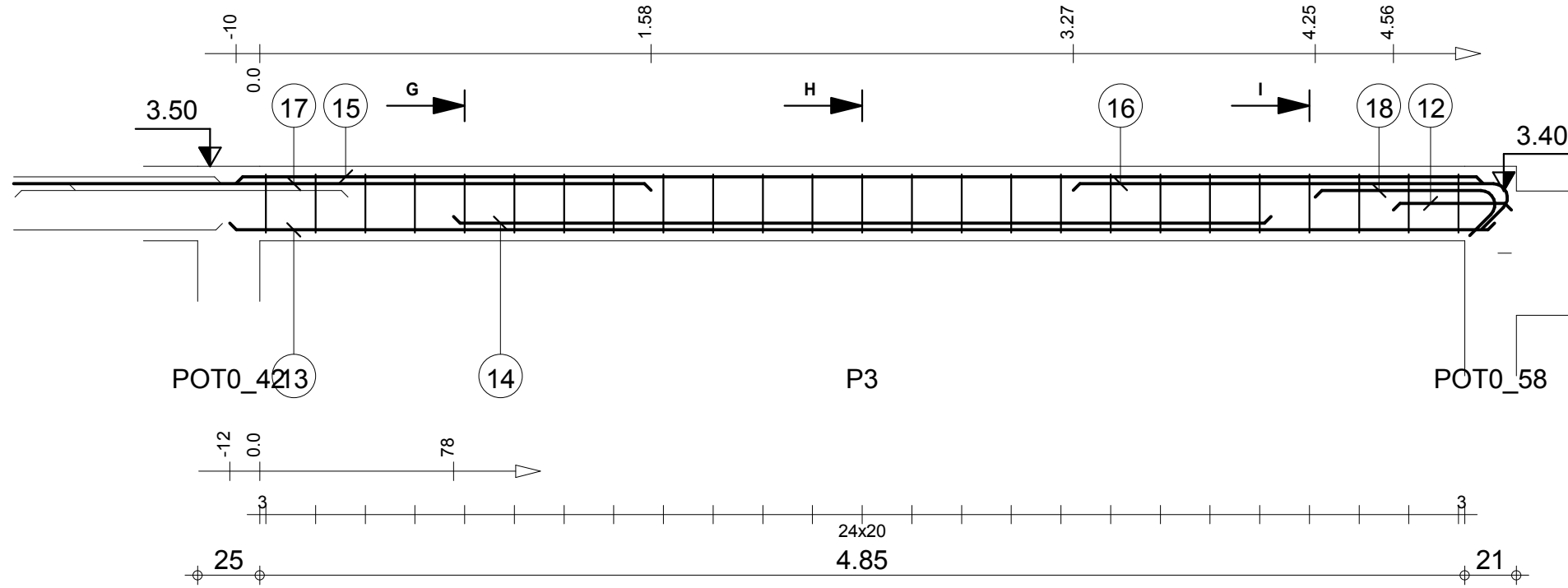
Acier HA 400 = 1.55 kg

Acier HA 400 = 6.93 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 12 | 2HA 12 | l=47 | 47 |
| 13 | 2HA 12 | l=5.09 | 5.09 |
| 14 | 2HA 12 | l=3.29 | 3.29 |
| 15 | 2HA 10 | l=5.02 | 5.02 |
| 16 | 2HA 12 | l=1.94 | 1.75 |
| 17 | 2HA 12 | l=2.98 | 2.98 |
| 18 | 2HA 12 | l=92 | 73 |
| 19 | 25HA 6 | l=78 | 24 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU L.49: P3

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.236 m3

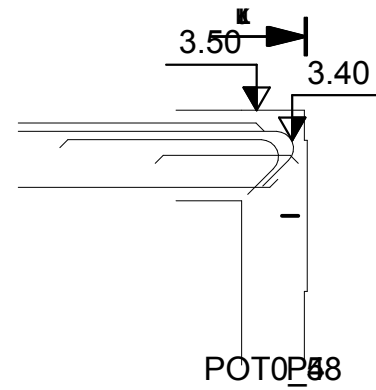
Acier HA 400 = 4.32 kg

Acier HA 400 = 32.3 kg

0

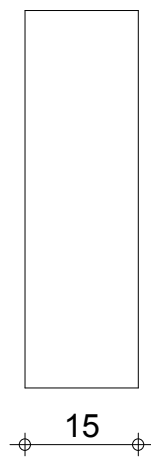
MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|------|-------|
| 20 | 2HA 10 | l=5 | 00 |



Ø 21

J-J



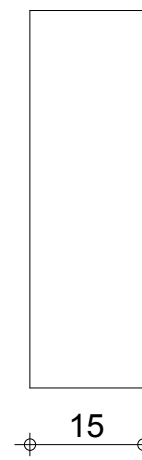
50

K-K



50

L-L



50

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

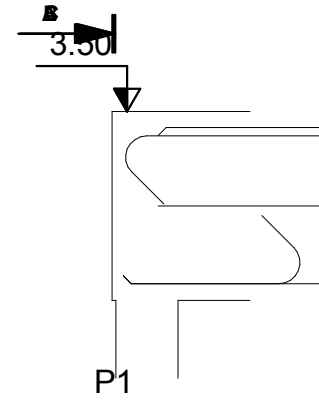
POU L.49: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

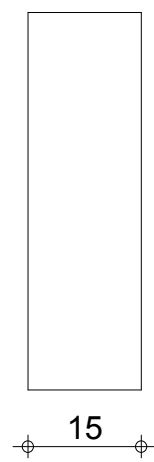
Page 4/4

Béton : BETON20 = 0.0132 m3
Acier HA 400 = 0.0663 kg

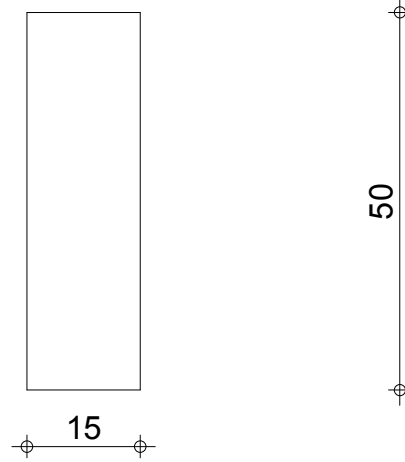


1 17

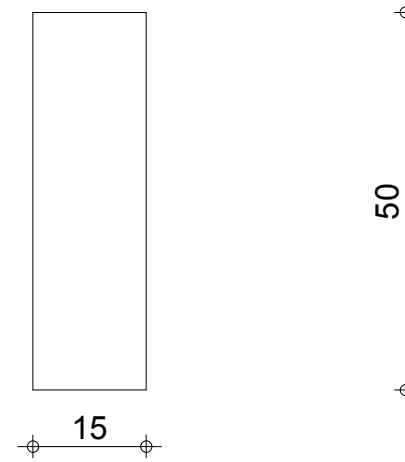
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU M.1014: P1

Section 15x50

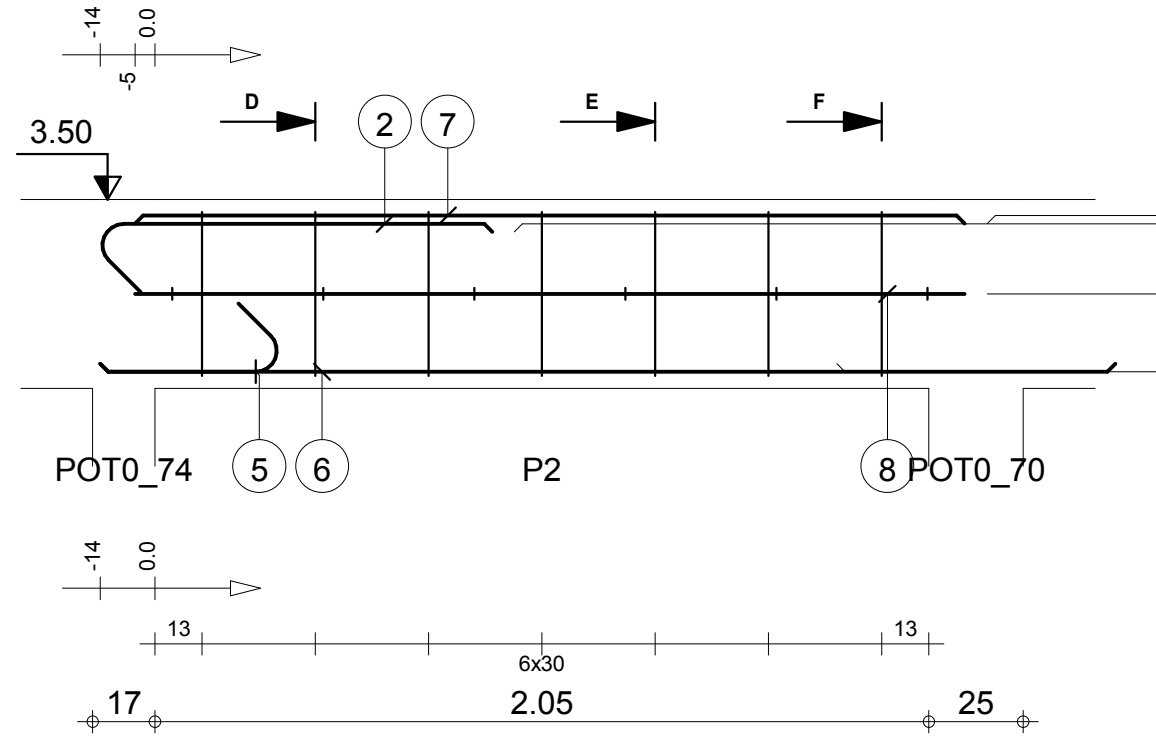
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

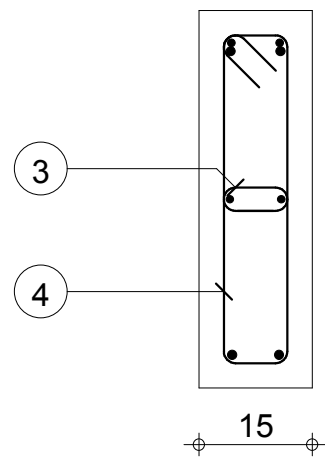
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MINHDU_BAMBOUTOS_POUTRES

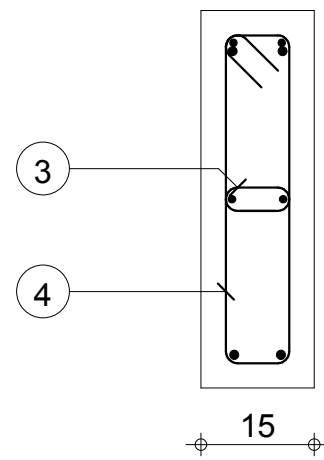
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=1.23 | 00 | |
| ③ | 6HA 6 | l=25 | 00 | |
| ④ | 7HA 6 | l=1.18 | 31 | |
| ⑤ | 2HA 12 | l=66 | 00 | |
| ⑥ | 2HA 12 | l=2.69 | 00 | |
| ⑦ | 2HA 10 | l=2.20 | 00 | |
| ⑧ | 2HA 10 | l=2.20 | 00 | |



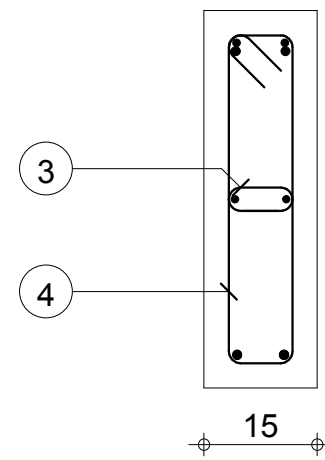
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU M.1014: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.169 m³

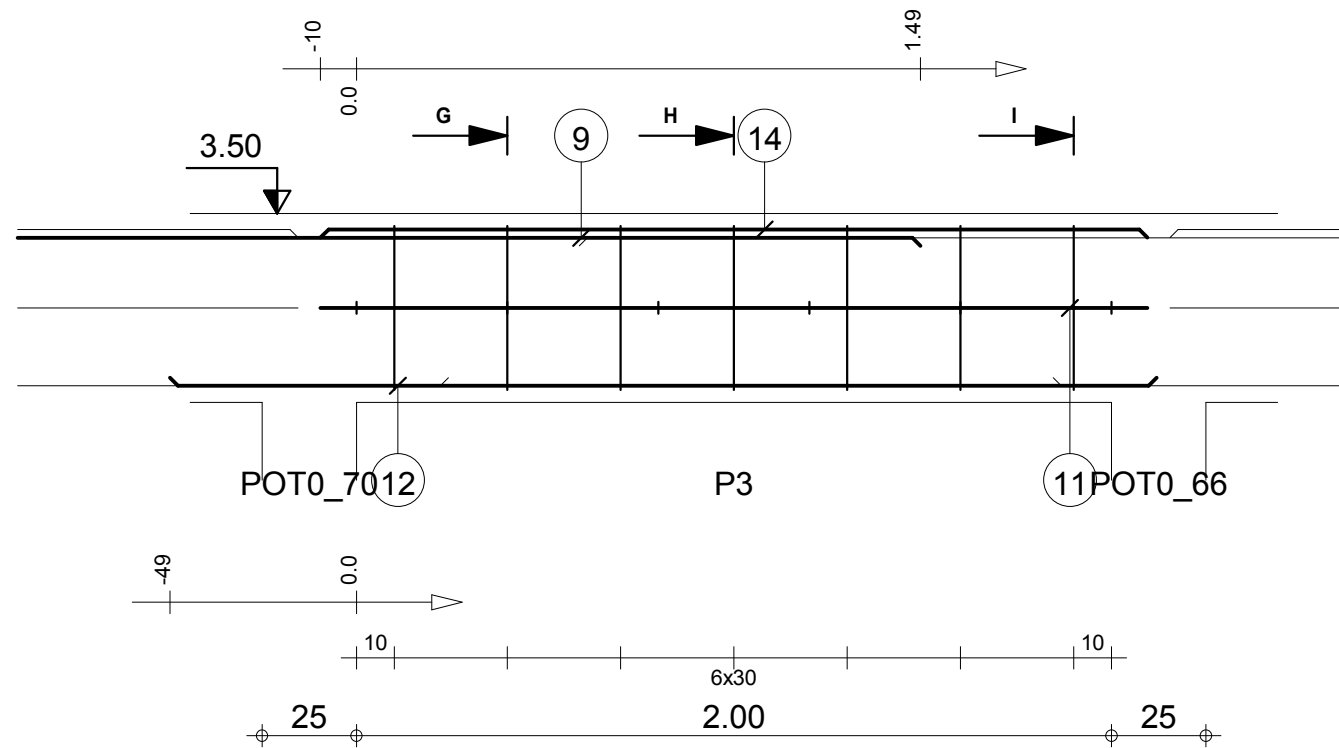
Acier HA 400 = 4.87 kg

Acier HA 400 = 10.8 kg

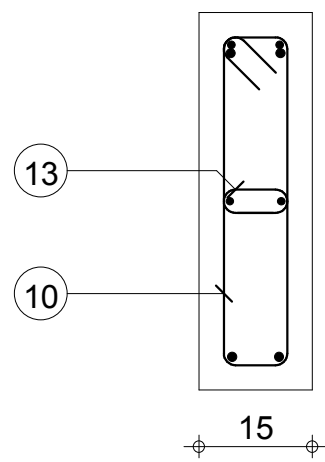
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MINHDU_BAMBOUTOS_POUTRES

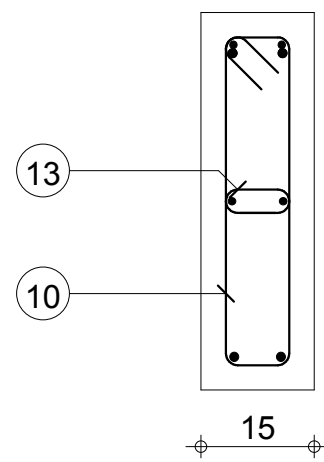
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 9 | 2HA 12 | l=2.84 | 00 | 2.84 |
| 10 | 7HA 6 | l=1.18 | 31 | |
| 11 | 2HA 10 | l=2.19 | 00 | 2.19 |
| 12 | 2HA 12 | l=2.61 | 00 | 2.61 |
| 13 | 6HA 6 | l=25 | 00 | |
| 14 | 2HA 10 | l=2.19 | 00 | 2.19 |



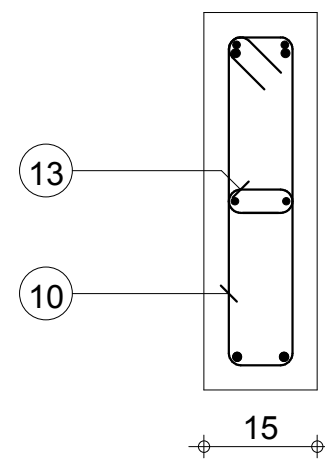
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU M.1014: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/5

Béton : BETON20 = 0.169 m3

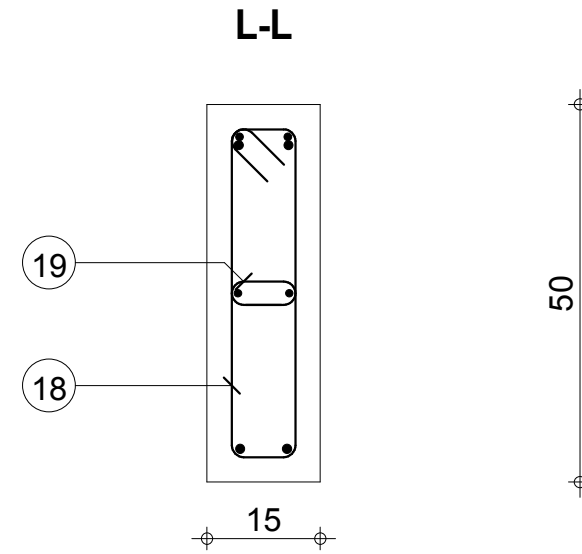
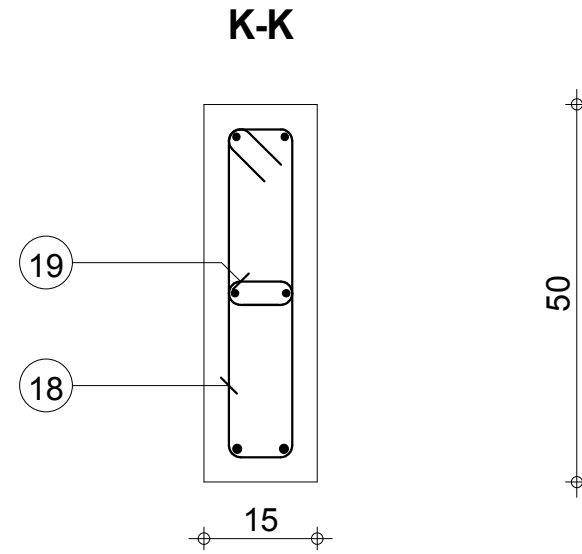
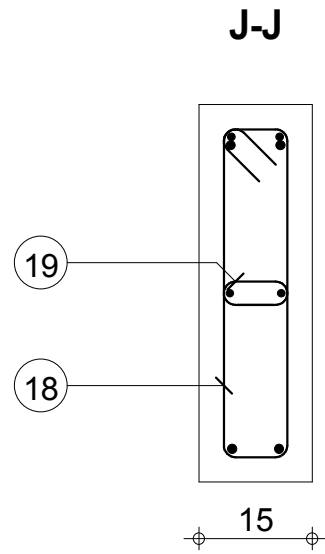
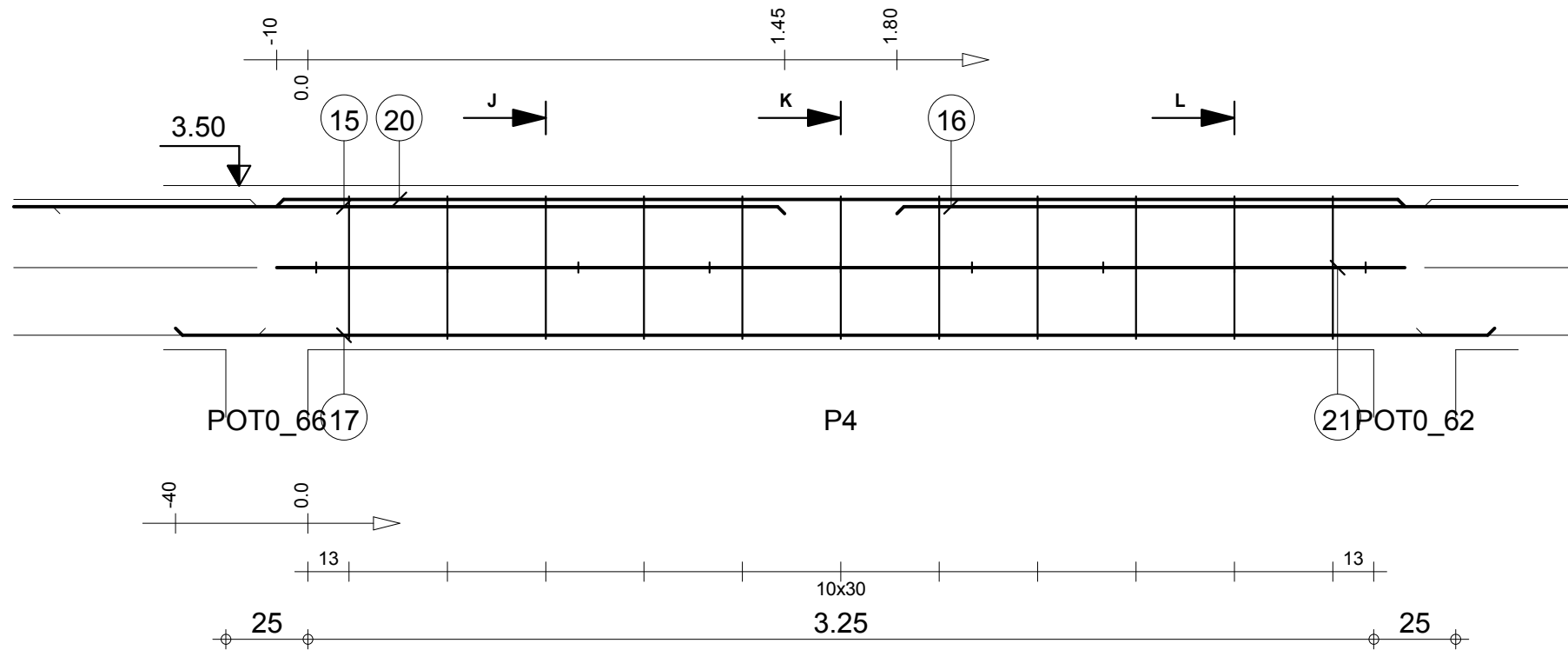
Acier HA 400 = 4.86 kg

Acier HA 400 = 12.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 2HA 12 | l=3.11 | 00 | 3.11 |
| 16 | 2HA 12 | l=2.60 | 00 | 2.60 |
| 17 | 2HA 12 | l=4.02 | 00 | 4.02 |
| 18 | 11HA 6 | l=1.18 | 31 | |
| 19 | 9HA 6 | l=25 | 00 | |
| 20 | 2HA 10 | l=3.44 | 00 | 3.44 |
| 21 | 2HA 10 | l=3.44 | 00 | 3.44 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU M.1014: P4
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

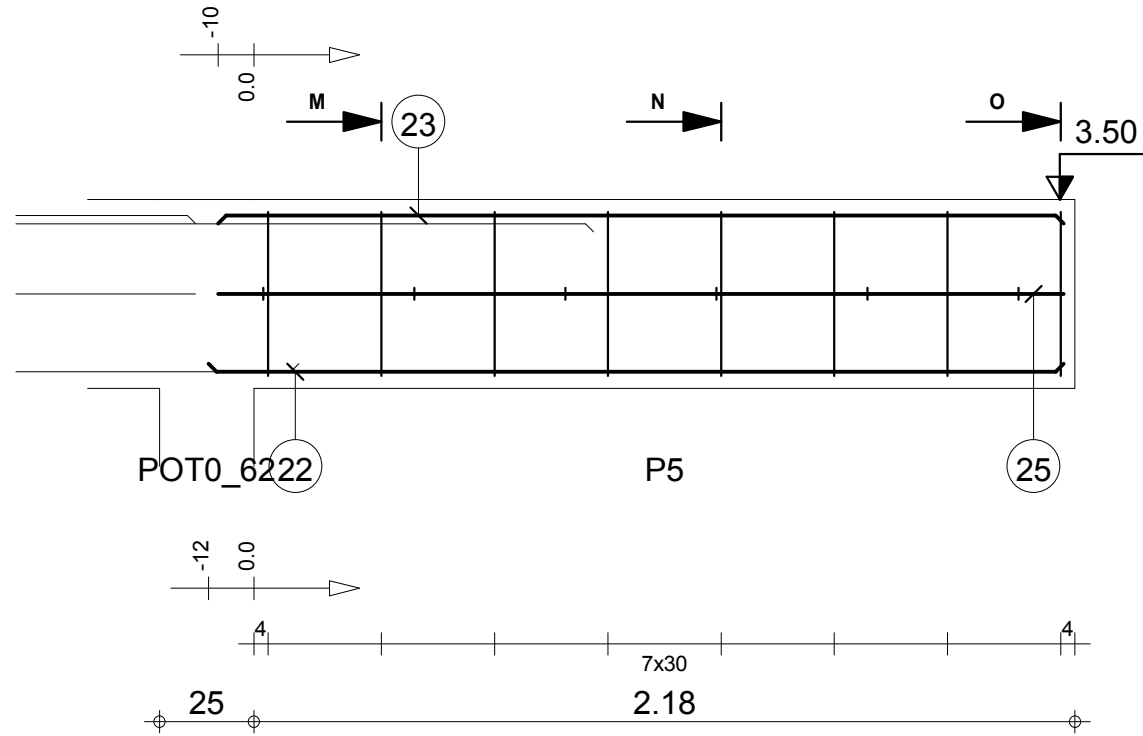
Page 4/5

Béton : BETON20 = 0.263 m3
Acier HA 400 = 7.62 kg
Acier HA 400 = 21.5 kg

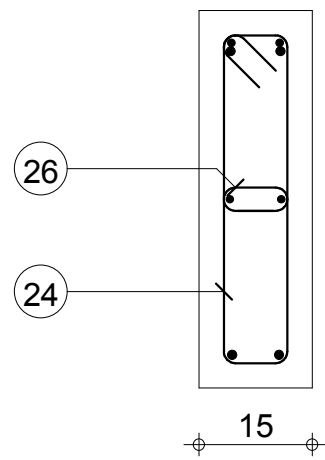
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MINHDU_BAMBOUTOS_POUTRES

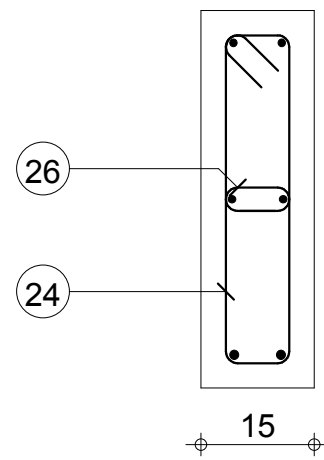
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 22 | 2HA 12 | l=2.27 | 00 | 2.27 |
| 23 | 2HA 10 | l=2.24 | 00 | 2.24 |
| 24 | 8HA 6 | l=1.18 | 31 | |
| 25 | 2HA 10 | l=2.24 | 00 | 2.24 |
| 26 | 6HA 6 | l=25 | 00 | |



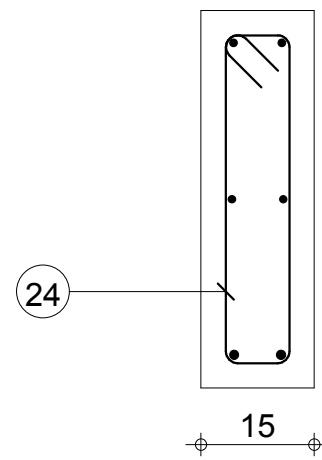
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU M.1014: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

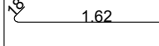
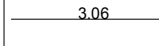
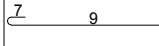
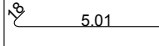
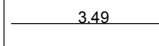
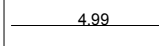

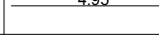
Béton : BETON20 = 0.172 m3

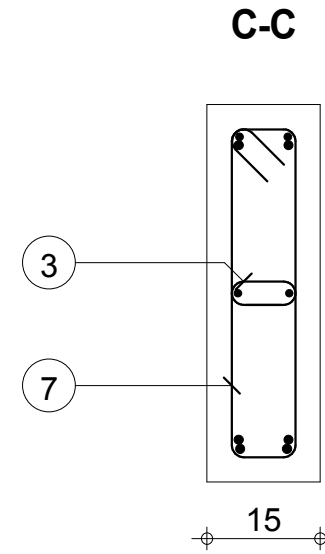
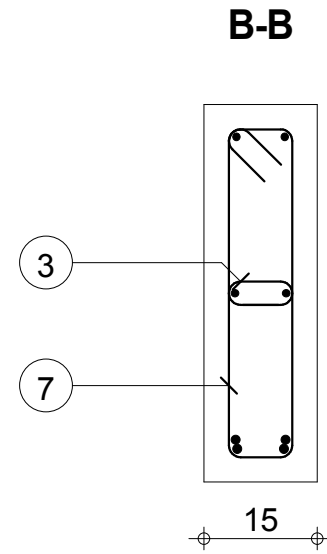
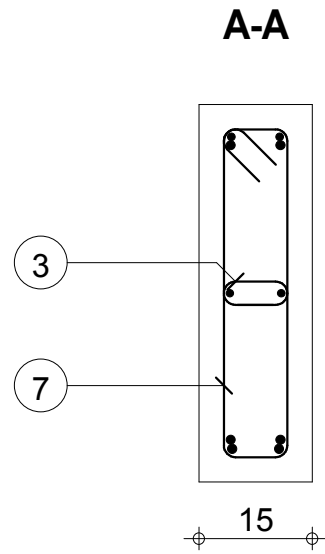
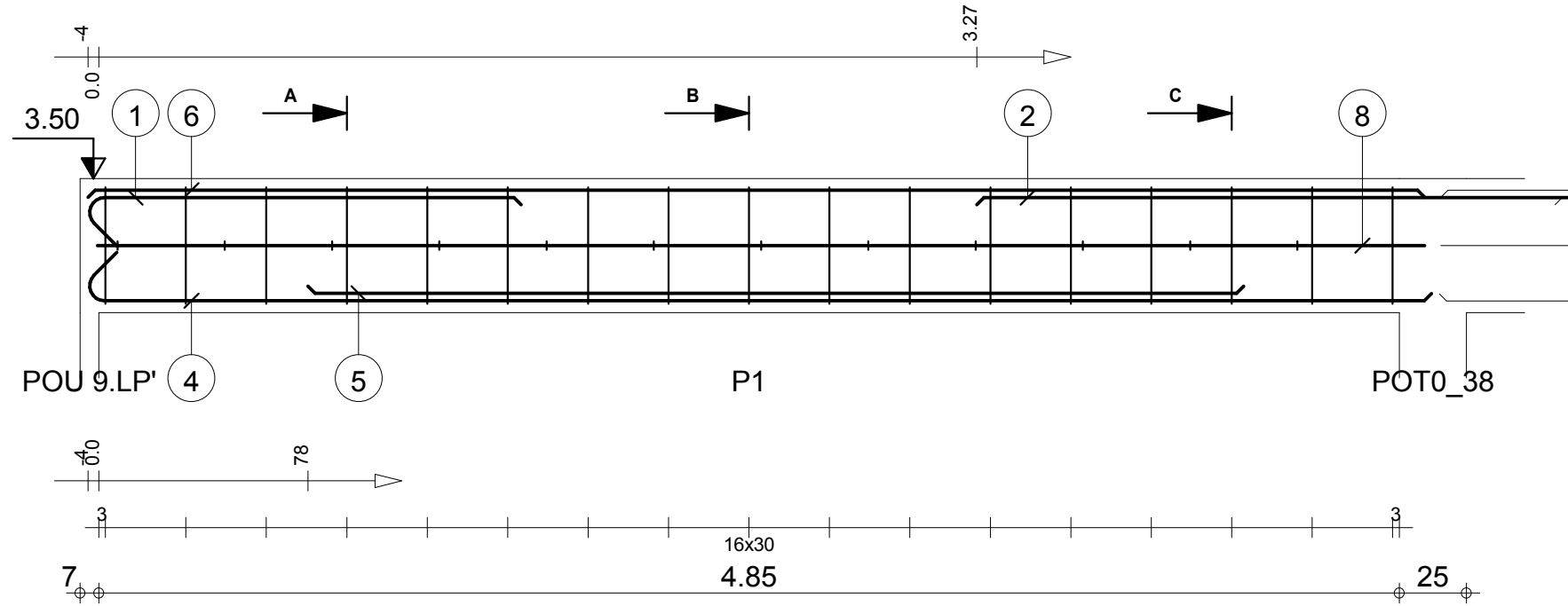
Acier HA 400 = 5.19 kg

Acier HA 400 = 6.78 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| ① | 2HA 12 | l=1.80 | 00  |
| ② | 2HA 12 | l=3.06 | 00  |
| ③ | 12HA 6 | l=25 | 00  |
| ④ | 2HA 12 | l=5.20 | 00  |
| ⑤ | 2HA 12 | l=3.49 | 00  |
| ⑥ | 2HA 10 | l=4.99 | 00  |
| ⑦ | 17HA 6 | l=1.18 | 31  |
| ⑧ | 2HA 10 | l=4.95 | 00  |



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

POU N.49: P1
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

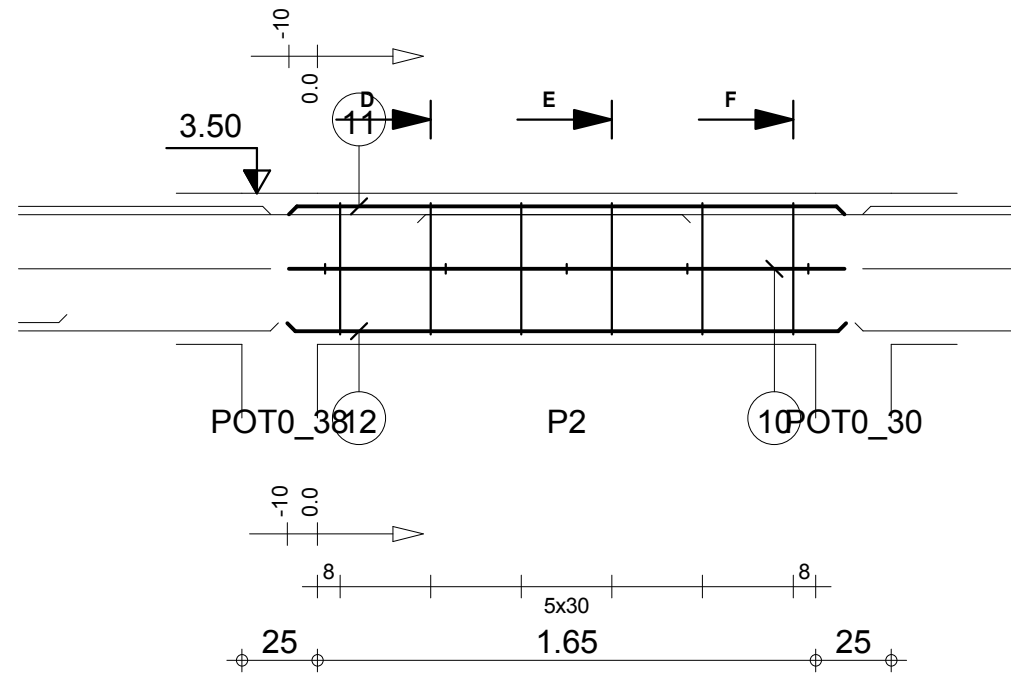
Page 1/3

Béton : BETON20 = 0.378 m3
Acier HA 400 = 11.2 kg
Acier HA 400 = 30.2 kg

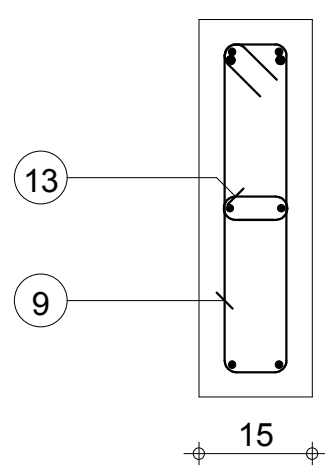
0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 9 | 6HA 6 | l=1.17 | 31 | |
| 10 | 2HA 10 | l=1.84 | 00 | |
| 11 | 2HA 10 | l=1.84 | 00 | |
| 12 | 2HA 10 | l=1.85 | 00 | |
| 13 | 5HA 6 | l=25 | 00 | |

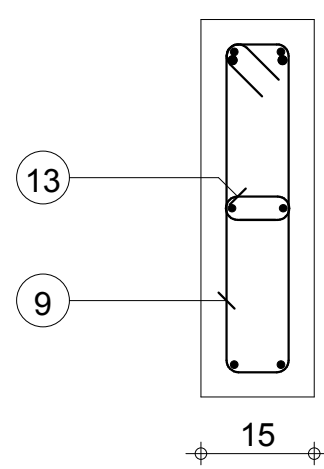


D-D



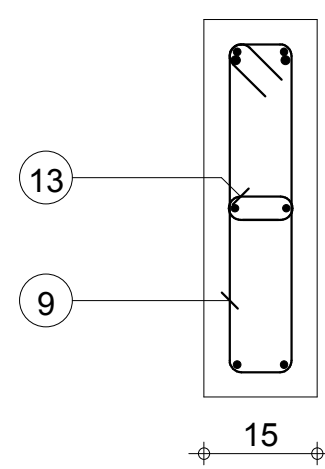
50

E-E



50

F-F



50

Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU N.49: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3









Béton : BETON20 = 0.143 m3

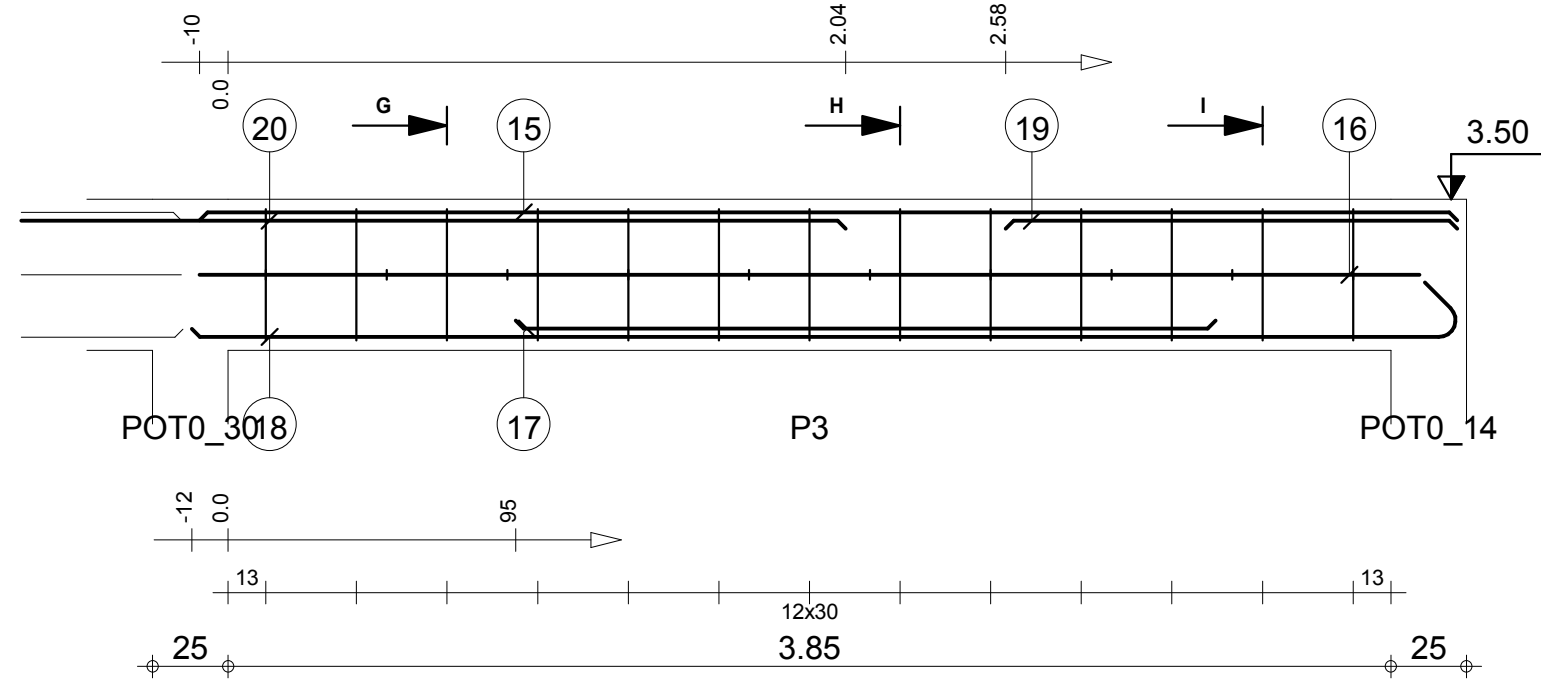
Acier HA 400 = 4.11 kg

Acier HA 400 = 4.55 kg

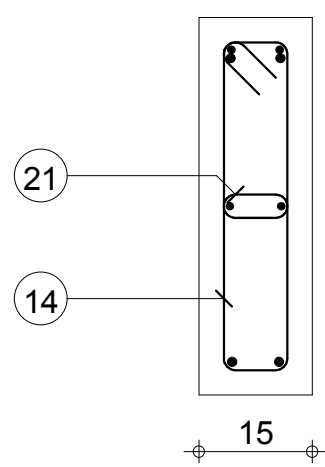
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MINHDU_BAMBOUTOS_POUTRES

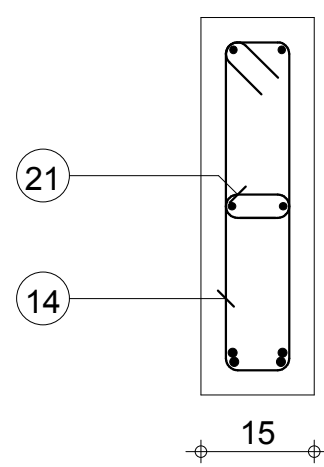
| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 14 | 13HA 6 | l=1.18 | 31  |
| 15 | 2HA 10 | l=4.17 | 00  |
| 16 | 2HA 10 | l=4.04 | 00  |
| 17 | 2HA 12 | l=2.32 | 00  |
| 18 | 2HA 12 | l=4.38 | 00  |
| 19 | 2HA 12 | l=1.50 | 00  |
| 20 | 2HA 12 | l=3.61 | 00  |
| 21 | 10HA 6 | l=25 | 00  |



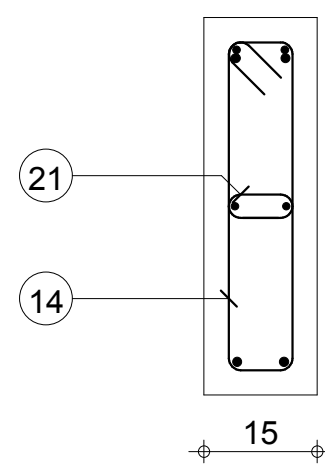
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU N.49: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.317 m³

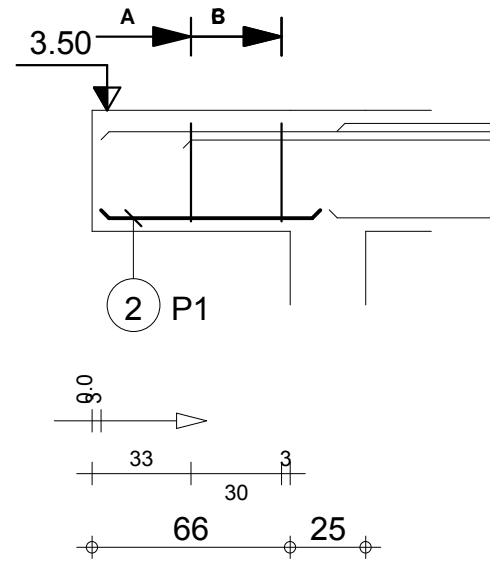
Acier HA 400 = 8.94 kg

Acier HA 400 = 26.1 kg

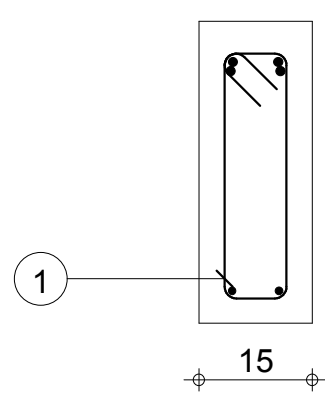
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MINHDU_BAMBOUTOS_POUTRES

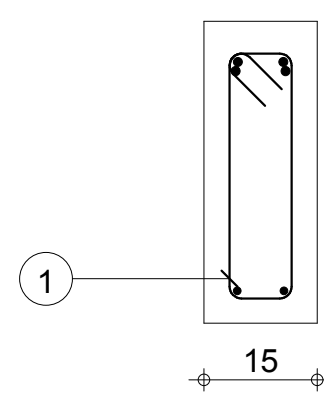
| Pos. | Armature | Code | Forme |
|------|----------|------|-------|
| ① | 2HA 6 | I=95 | 31 |
| ② | 2HA 10 | I=73 | 00 |



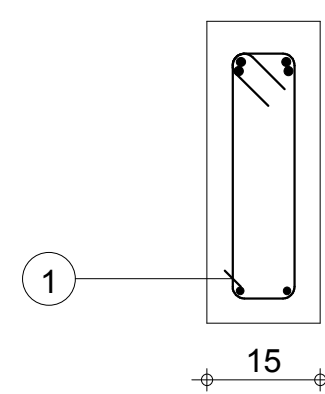
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU R.116: P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.0469 m3

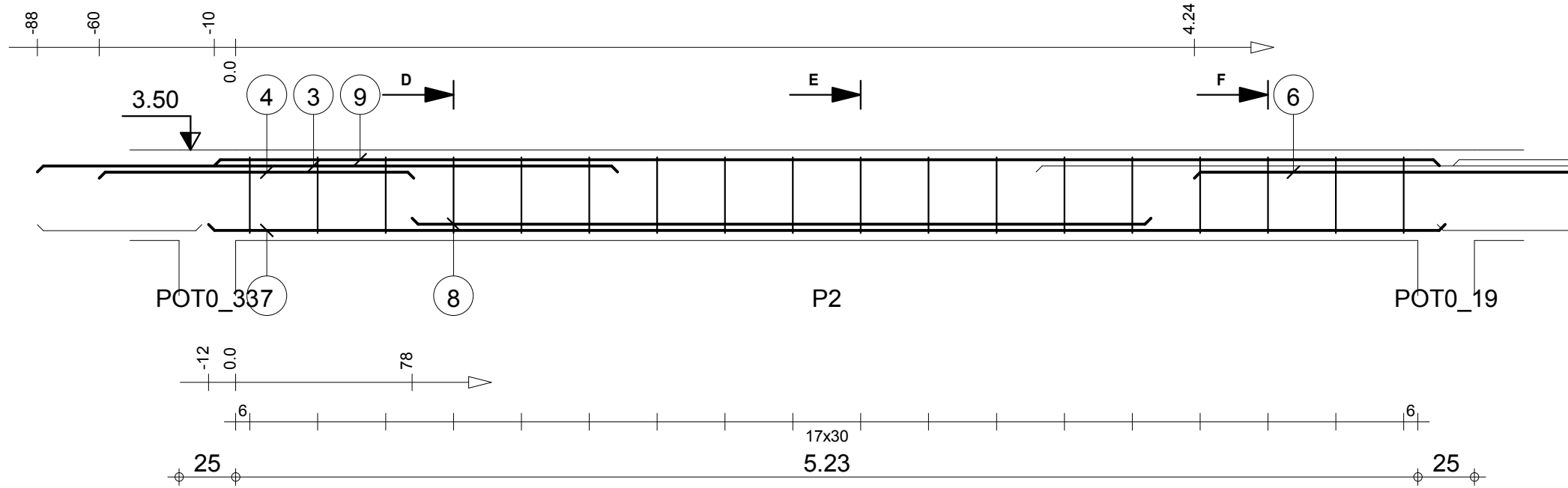
Acier HA 400 = 0.424 kg

Acier HA 400 = 0.895 kg

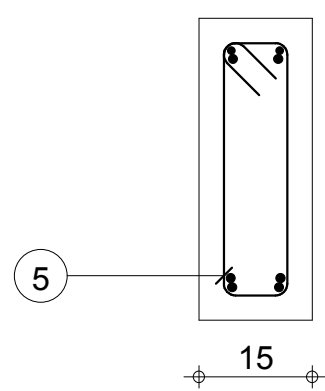
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MINHDU_BAMBOUTOS_POUTRES

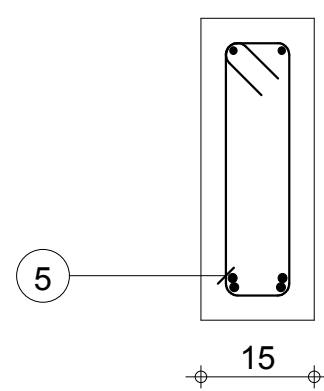
| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| ③ | 2HA 12 | l=2.56 | 00 | 2.56 |
| ④ | 2HA 12 | l=1.39 | 00 | 1.39 |
| ⑤ | 18HA 6 | l=98 | 31 | |
| ⑥ | 2HA 12 | l=2.12 | 00 | 2.12 |
| ⑦ | 2HA 12 | l=5.46 | 00 | 5.47 |
| ⑧ | 2HA 12 | l=3.27 | 00 | 3.27 |
| ⑨ | 2HA 10 | l=5.42 | 00 | 5.42 |



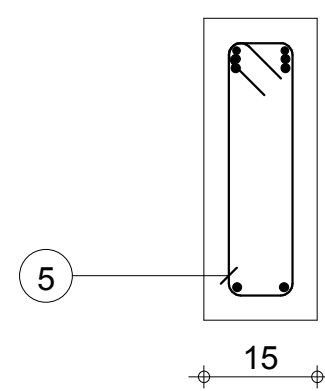
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU R.116: P2

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.328 m3

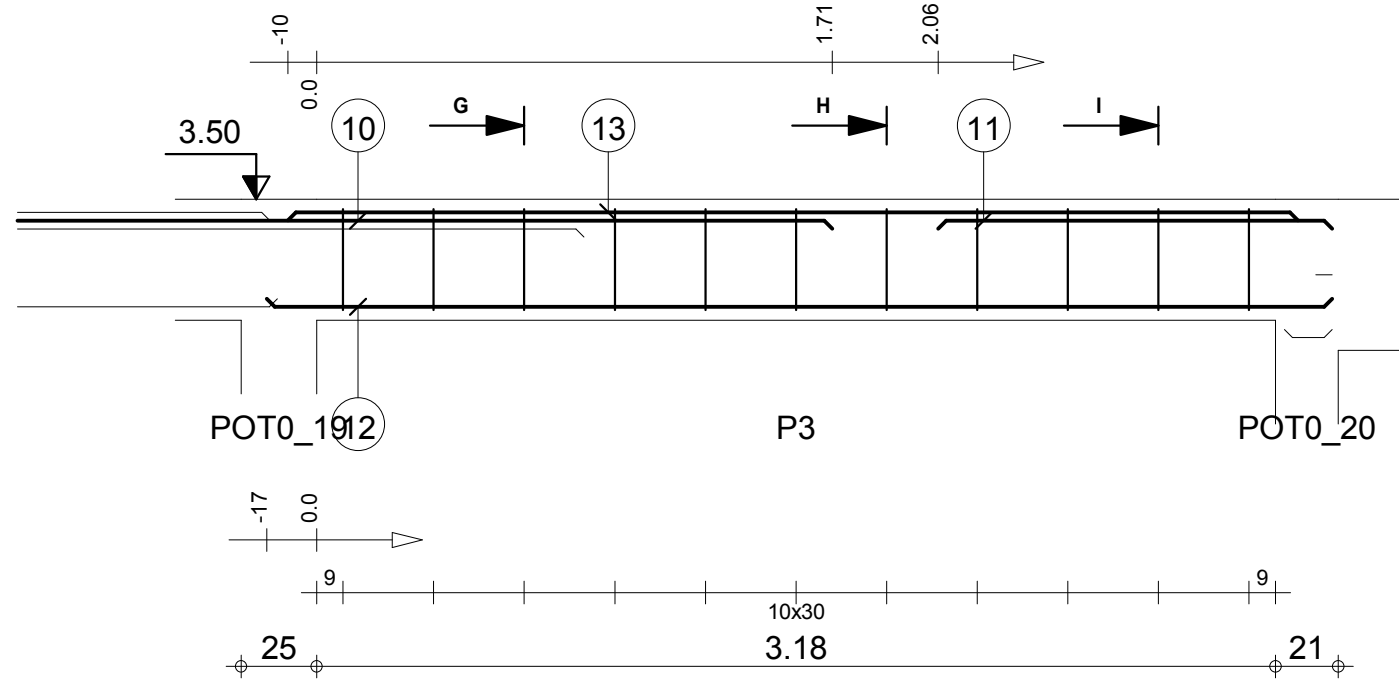
Acier HA 400 = 3.91 kg

Acier HA 400 = 33 kg

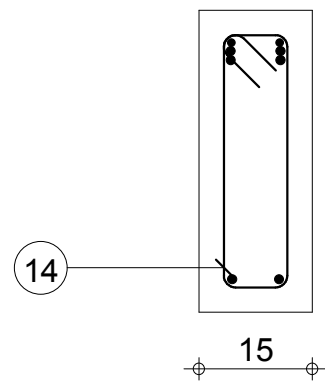
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MINHDU_BAMBOUTOS_POUTRES

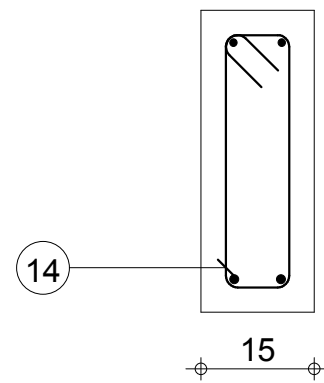
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ⑩ | 2HA 12 | l=3.65 | 00 | 3.65 |
| ⑪ | 2HA 12 | l=1.30 | 00 | 1.30 |
| ⑫ | 2HA 12 | l=3.53 | 00 | 3.53 |
| ⑬ | 2HA 10 | l=3.34 | 00 | 3.34 |
| ⑭ | 11HA 6 | l=98 | 31 | |



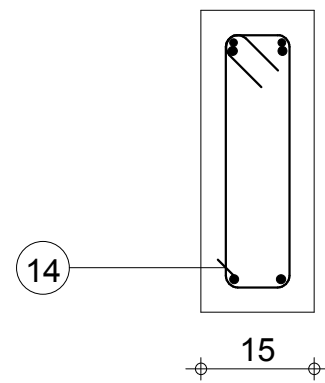
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU R.116: P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.207 m3

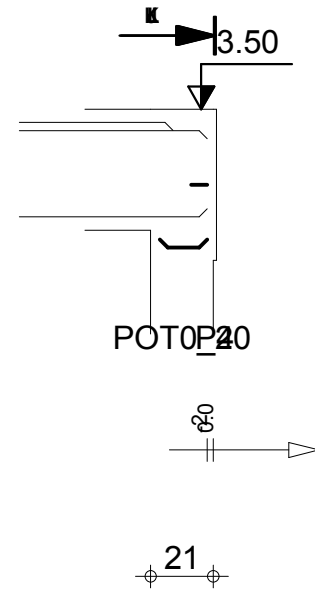
Acier HA 400 = 2.39 kg

Acier HA 400 = 19.2 kg

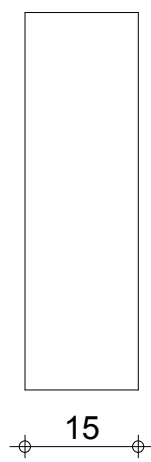
0

MINHDU_BAMBOUTOS_POUTRES

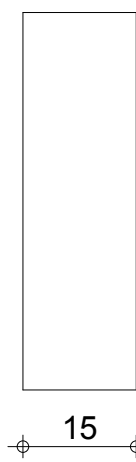
| Pos. | Armature | Code | Forme |
|------|-------------|------|-------|
| 15 | 2HA 12 l=16 | 00 | 16 |
| 16 | 2HA 10 l=5 | 00 | 5 |



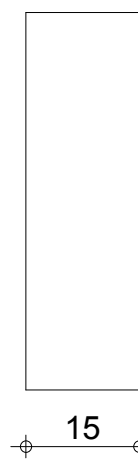
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU R.116: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.0101 m3

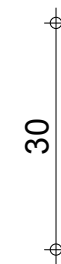
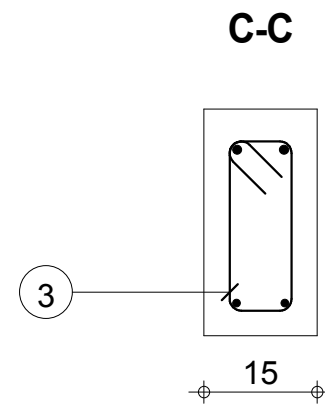
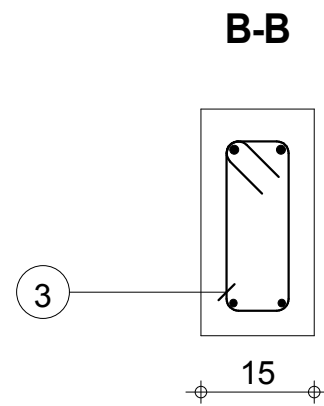
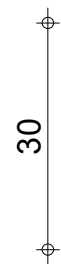
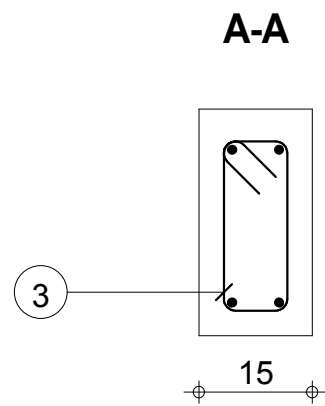
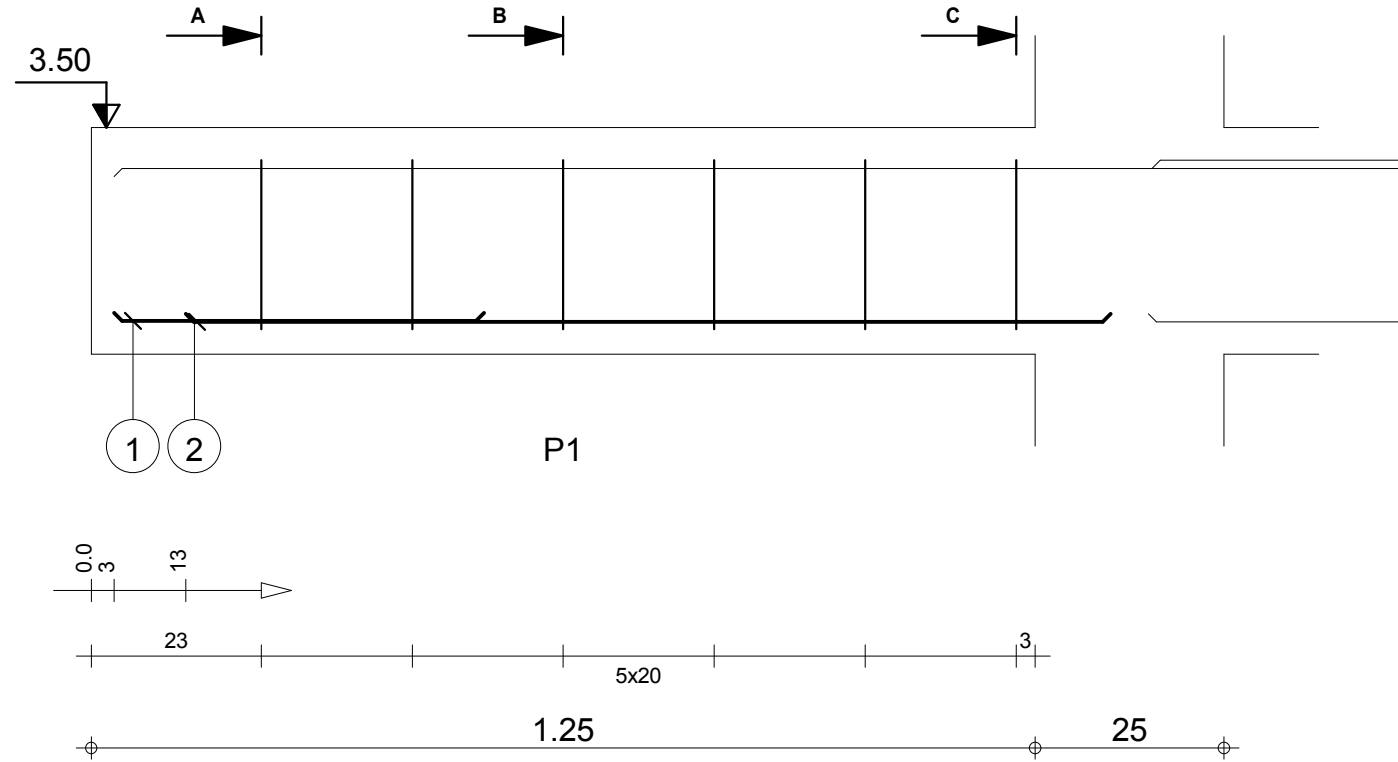
Acier HA 400 = 0.0663 kg

Acier HA 400 = 0.28 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=49 | 49 |
| ② | 2HA 10 | l=1.23 | 1.23 |
| ③ | 6HA 6 | l=76* | |



Tél.
Fax

Echelle pour la vue 1:10
Echelle pour la section 1:10

POU S.35: P1
Section 15x30


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

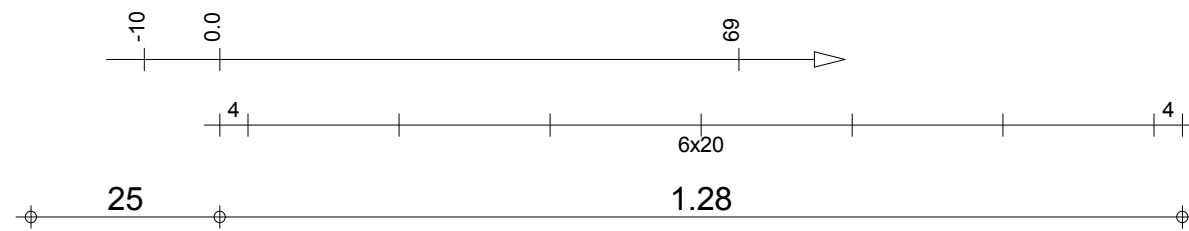
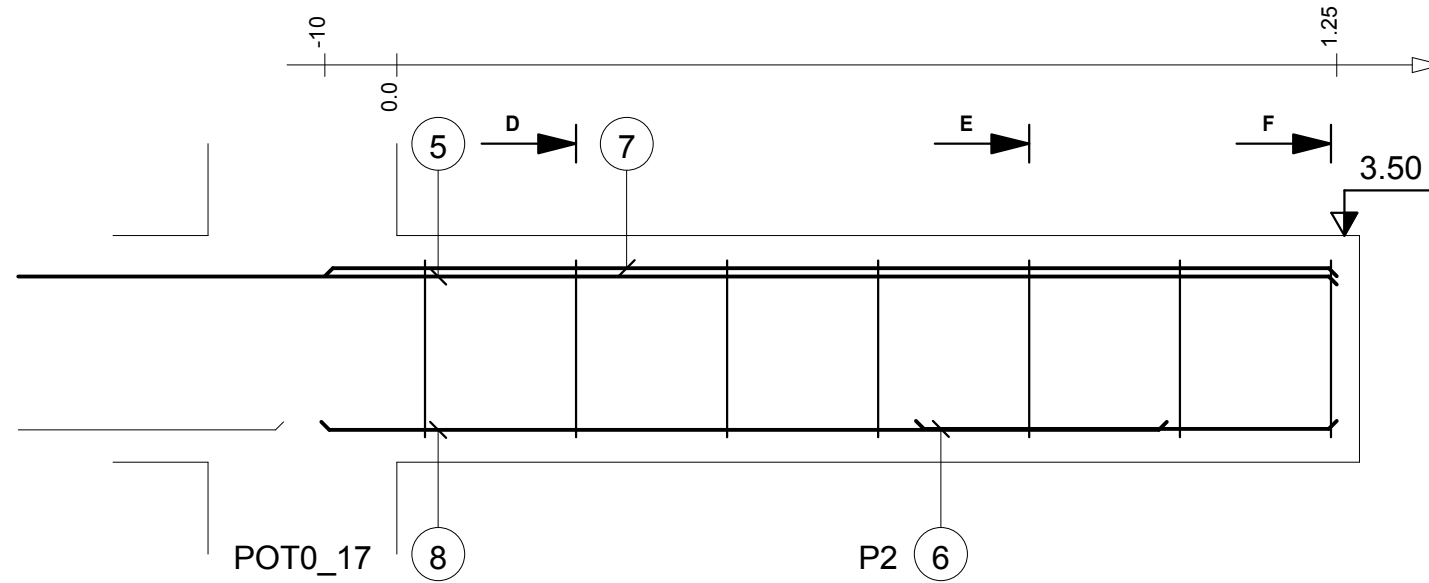
Page 1/2

Béton : BETON20 = 0.0619 m³
Acier HA 400 = 1.01 kg
Acier HA 400 = 2.38 kg

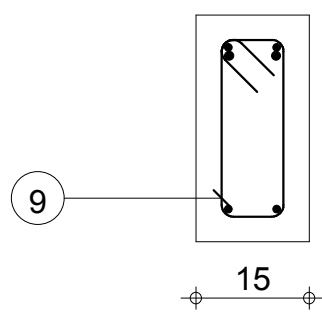
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MINHDU_BAMBOUTOS_POUTRES

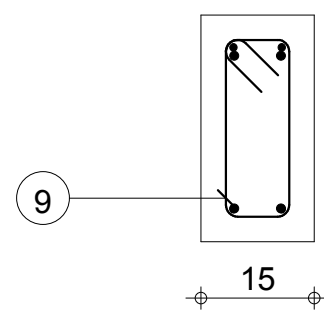
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 5 | 2HA 12 | l=2.71 | 00 2.72 |
| 6 | 2HA 12 | l=56 | 00 56 |
| 7 | 2HA 10 | l=1.34 | 00 1.34 |
| 8 | 2HA 10 | l=1.12 | 00 1.12 |
| 9 | 7HA 6 | l=78* | 31  |



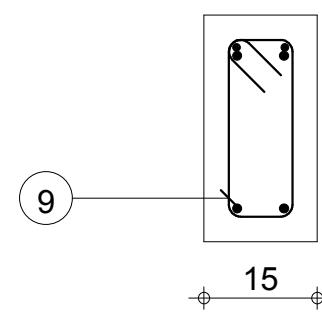
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

POU S.35: P2

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/2

Béton : BETON20 = 0.063 m3

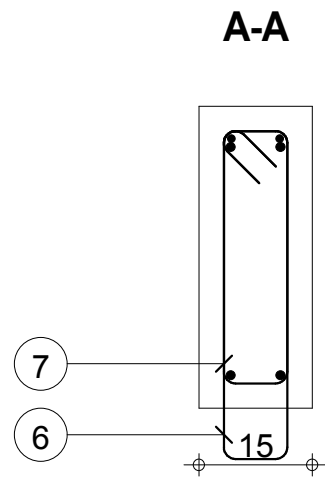
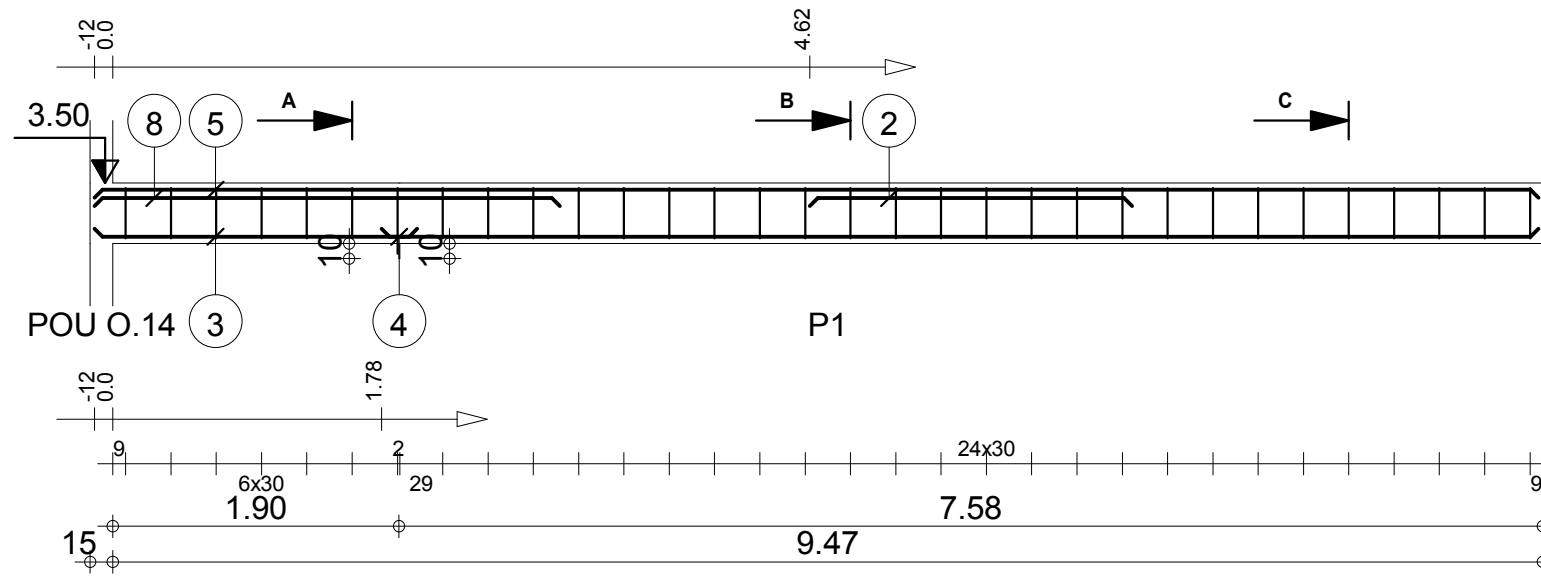
Acier HA 400 = 1.21 kg

Acier HA 400 = 8.84 kg

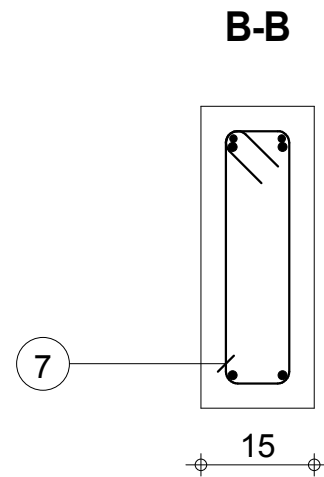
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MINHDU_BAMBOUTOS_POUTRES

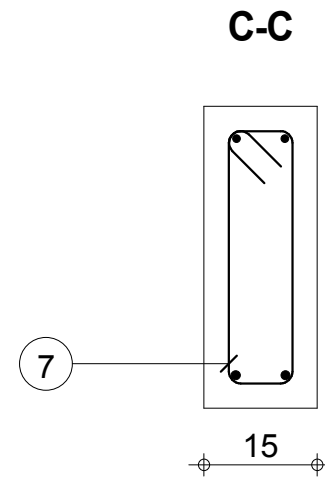
| Pos. | Armature | Code | Forme |
|------|----------|--------|---------------|
| ② | 2HA 12 | l=2.13 | 00 2.13 |
| ③ | 2HA 12 | l=2.14 | 00 2.14 |
| ④ | 2HA 12 | l=7.66 | 00 7.66 |
| ⑤ | 2HA 10 | l=9.56 | 00 9.56 |
| ⑥ | 1HA 6 | l=1.18 | 31 4 8 |
| ⑦ | 31HA 6 | l=98 | 31 34 8 |
| ⑧ | 2HA 12 | l=3.08 | 00 3.08 |



40



40



40

Tél.
Fax

Echelle pour la vue 1:50
Echelle pour la section 1:10

POU 1.OS: P1
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

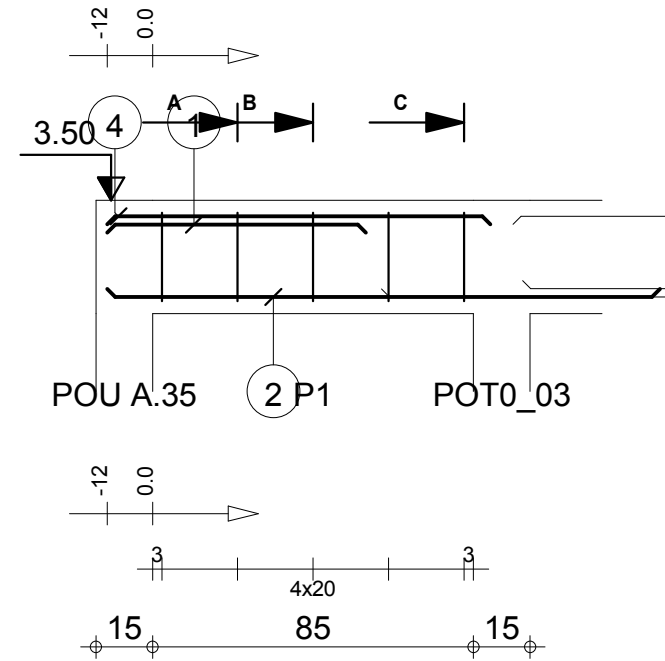
Page 1/1

Béton : BETON20 = 0.577 m3
Acier HA 400 = 6.99 kg
Acier HA 400 = 38.4 kg

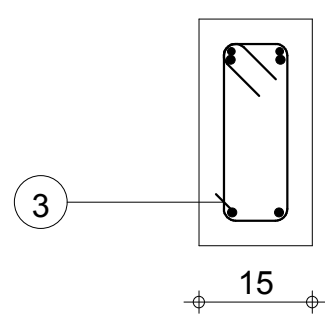
0

MINHDU_BAMBOUTOS_POUTRES

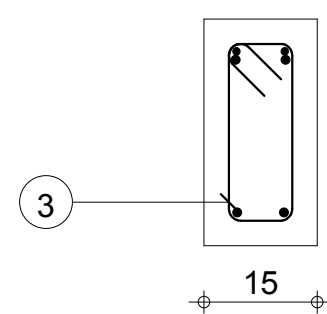
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| ① | 2HA 12 | l=69 | 00 69 |
| ② | 2HA 12 | l=1.46 | 00 1.46 |
| ③ | 5HA 6 | l=78 | 31 |
| ④ | 2HA 10 | l=1.02 | 00 1.02 |



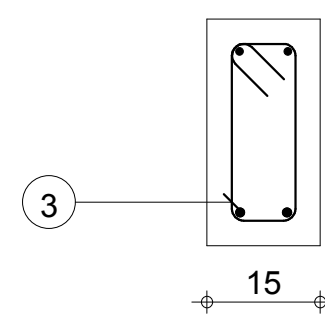
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 3.BE: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.0484 m3

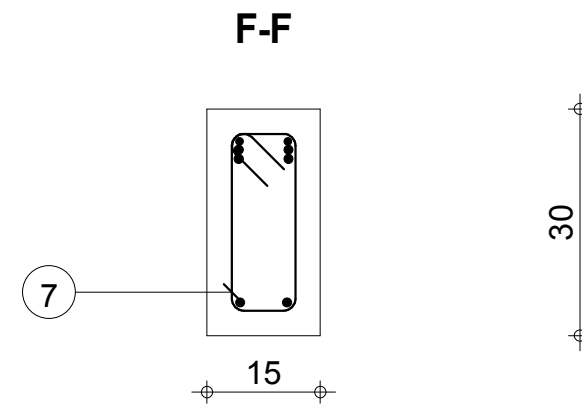
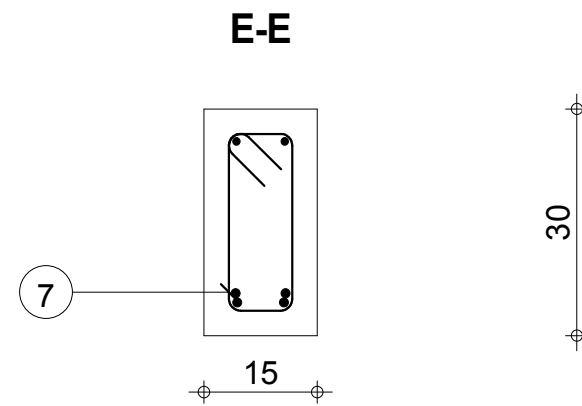
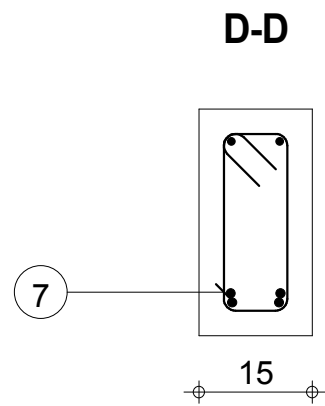
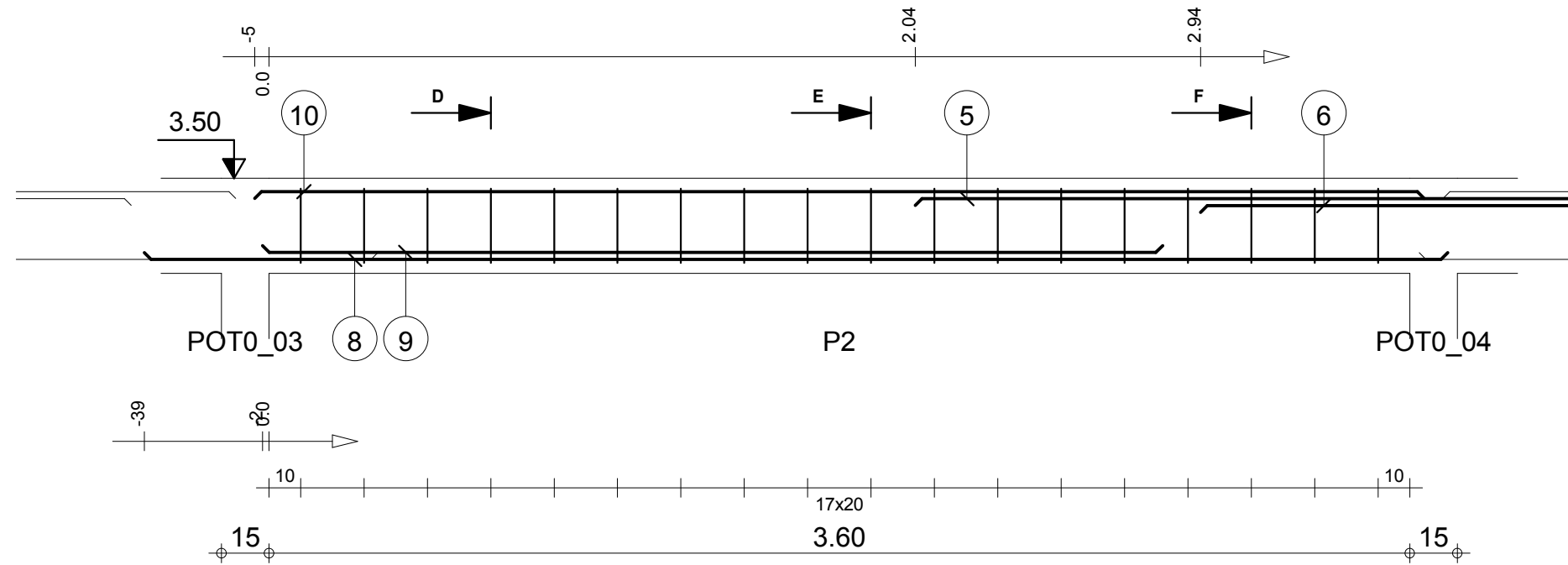
Acier HA 400 = 0.863 kg

Acier HA 400 = 5.07 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 5 | 2HA 12 | l=3.27 | 00 3.27 |
| 6 | 2HA 12 | l=1.47 | 00 1.47 |
| 7 | 18HA 6 | l=78 | 31  |
| 8 | 2HA 12 | l=4.11 | 00 4.11 |
| 9 | 2HA 12 | l=2.84 | 00 2.84 |
| 10 | 2HA 10 | l=3.69 | 00 3.69 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 3.BE: P2
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

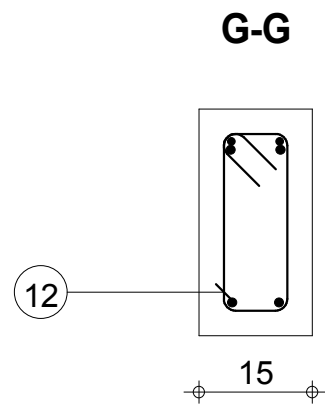
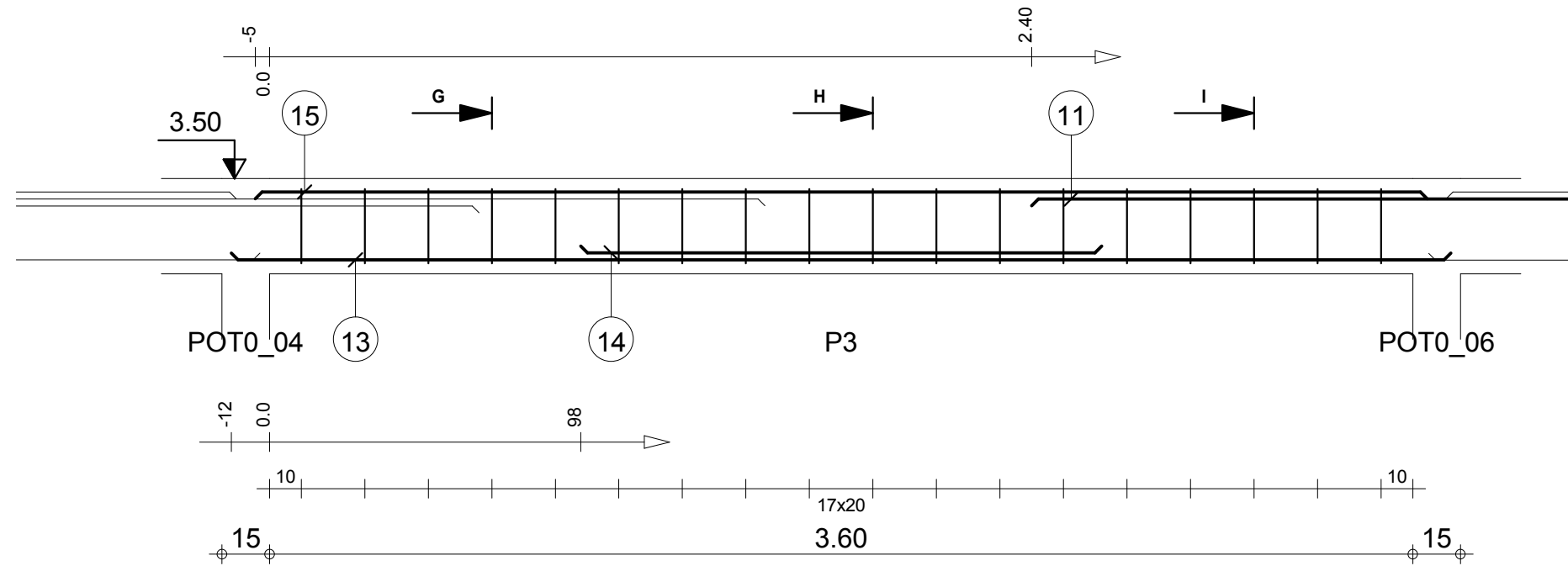
Page 2/4

Béton : BETON20 = 0.169 m3
Acier HA 400 = 3.11 kg
Acier HA 400 = 25.3 kg

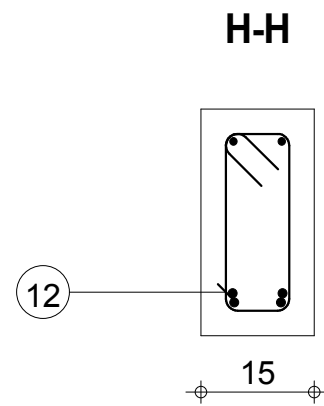
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MINHDU_BAMBOUTOS_POUTRES

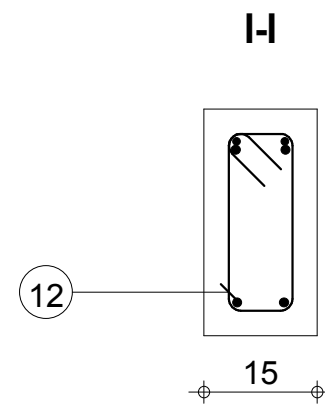
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 11 | 2HA 12 | l=2.52 | 00 | 2.52 |
| 12 | 18HA 6 | l=78 | 31 | |
| 13 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 14 | 2HA 12 | l=1.64 | 00 | 1.64 |
| 15 | 2HA 10 | l=3.69 | 00 | 3.69 |



30



30



30

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 3.BE: P3
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

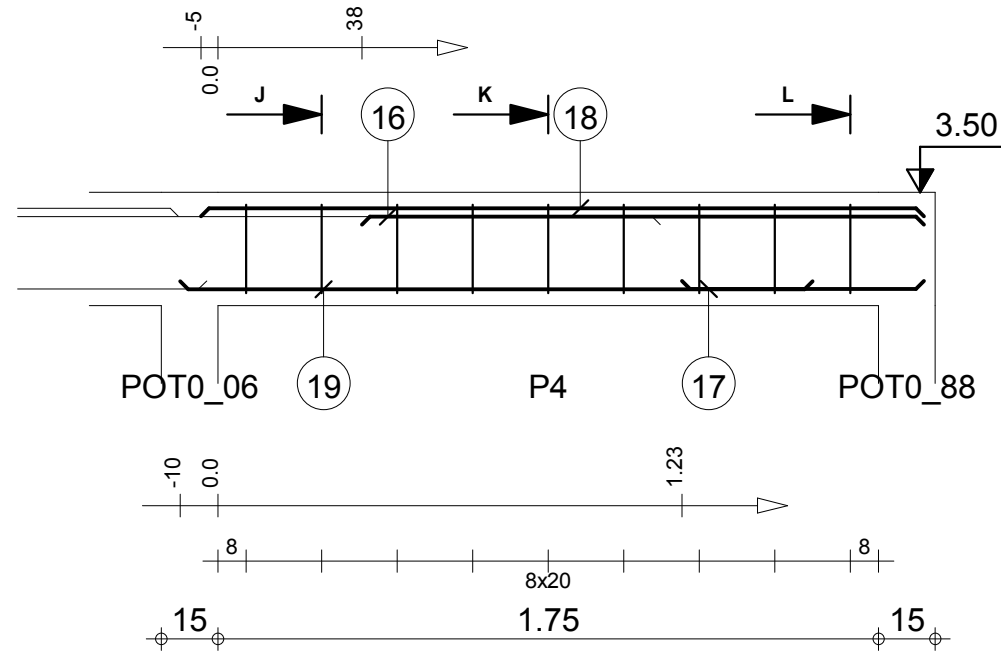
Page 3/4

Béton : BETON20 = 0.169 m3
Acier HA 400 = 3.11 kg
Acier HA 400 = 18.8 kg

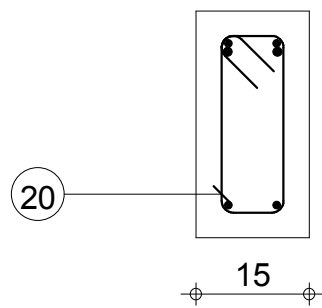
0

MINHDU_BAMBOUTOS_POUTRES

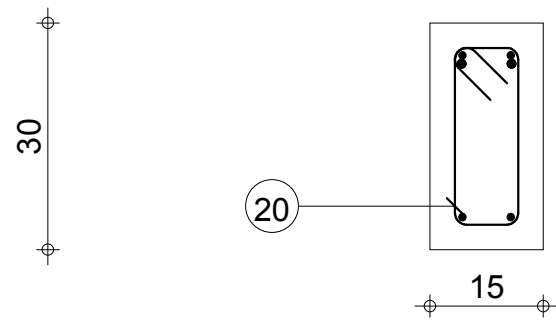
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 16 | 2HA 12 | l=1.49 | 00 | 1.49 |
| 17 | 2HA 12 | l=64 | 00 | 64 |
| 18 | 2HA 10 | l=1.92 | 00 | 1.92 |
| 19 | 2HA 10 | l=1.68 | 00 | 1.68 |
| 20 | 9HA 6 | l=78* | 31 | |



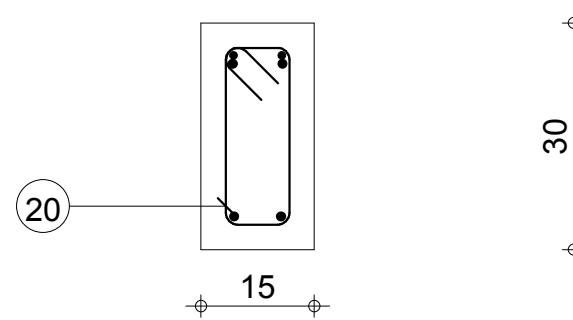
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 3.BE: P4

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4


Béton : BETON20 = 0.0889 m3

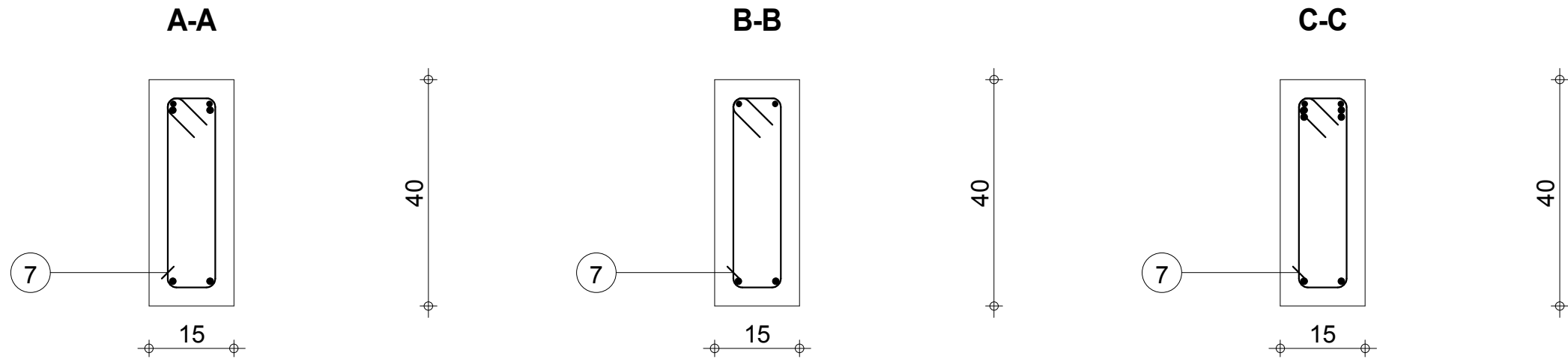
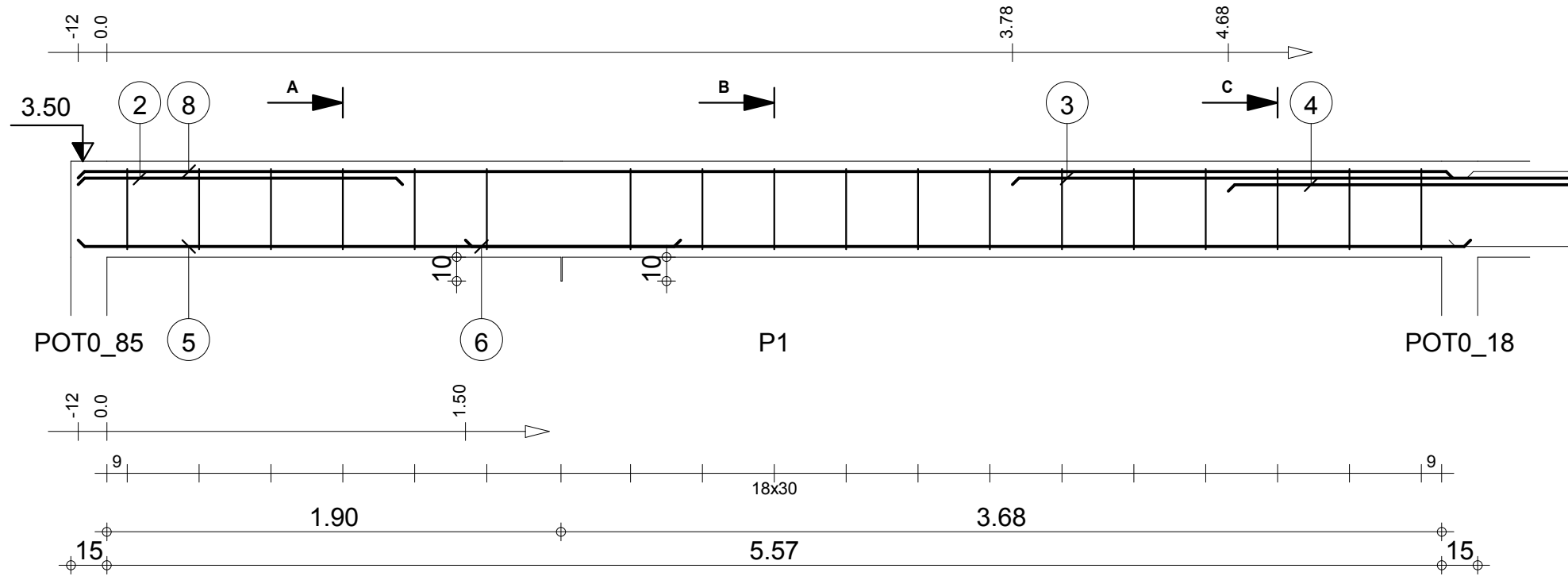
Acier HA 400 = 1.55 kg

Acier HA 400 = 8.21 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|---|
| ② | 2HA 12 | l=1.35 | 00 | 1.35 |
| ③ | 2HA 12 | l=3.50 | 00 | 3.50 |
| ④ | 2HA 12 | l=1.92 | 00 | 1.92 |
| ⑤ | 2HA 12 | l=2.51 | 00 | 2.51 |
| ⑥ | 2HA 12 | l=4.19 | 00 | 4.19 |
| ⑦ | 2*9HA 6 | l=98 | 31 |  |
| ⑧ | 2HA 10 | l=5.74 | 00 | 5.74 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 3.OS: P1

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/3

Béton : BETON20 = 0.348 m3

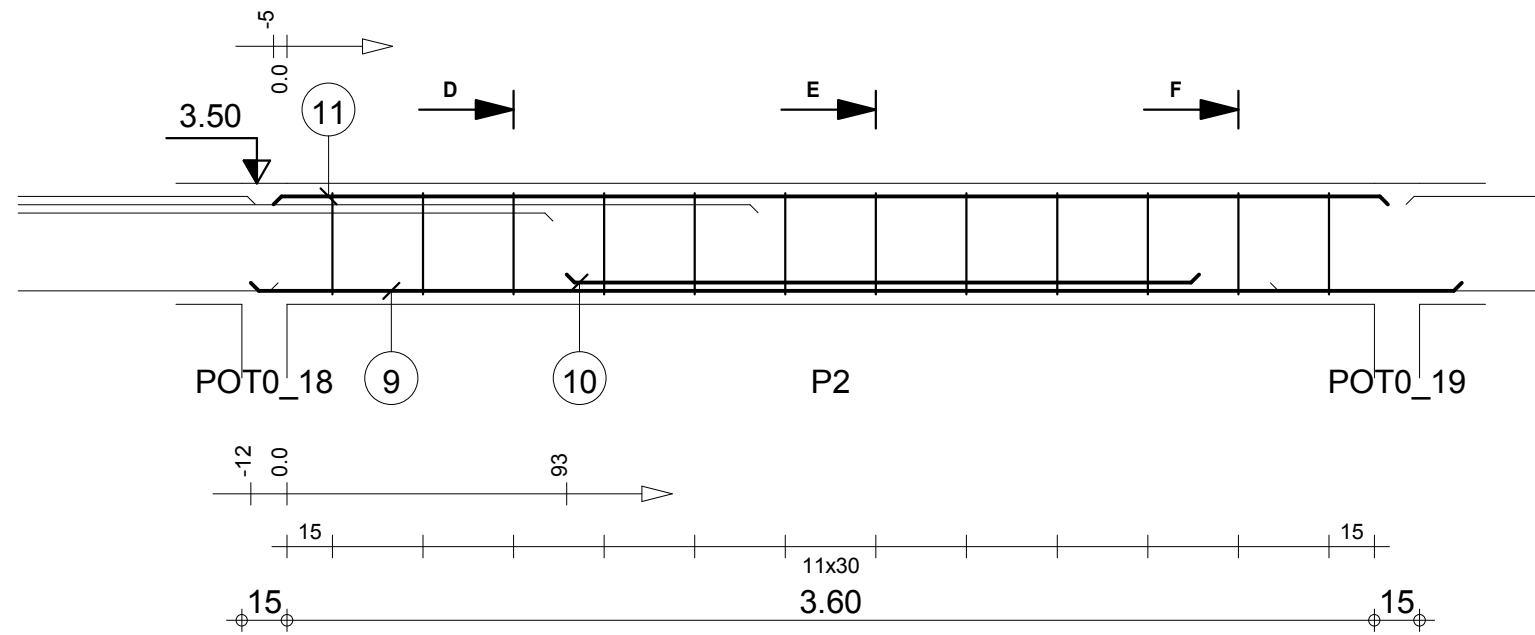
Acier HA 400 = 3.91 kg

Acier HA 400 = 31 kg

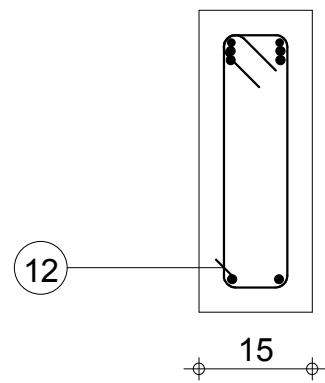
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MINHDU_BAMBOUTOS_POUTRES

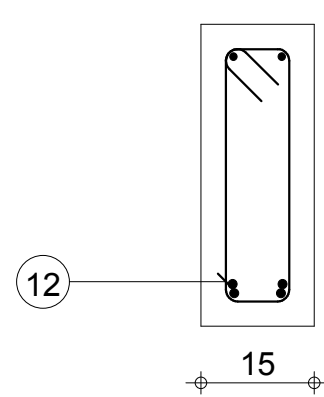
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 9 | 2HA 12 | l=4.01 | 4.01 |
| 10 | 2HA 12 | l=2.09 | 2.09 |
| 11 | 2HA 10 | l=3.69 | 3.69 |
| 12 | 12HA 6 | l=98 | |



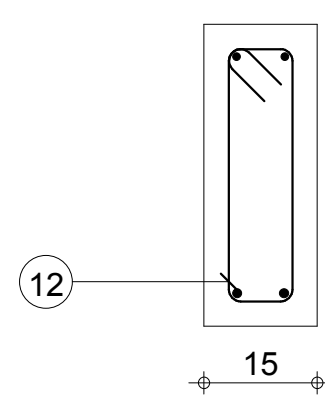
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 3.OS: P2

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3


Béton : BETON20 = 0.225 m3

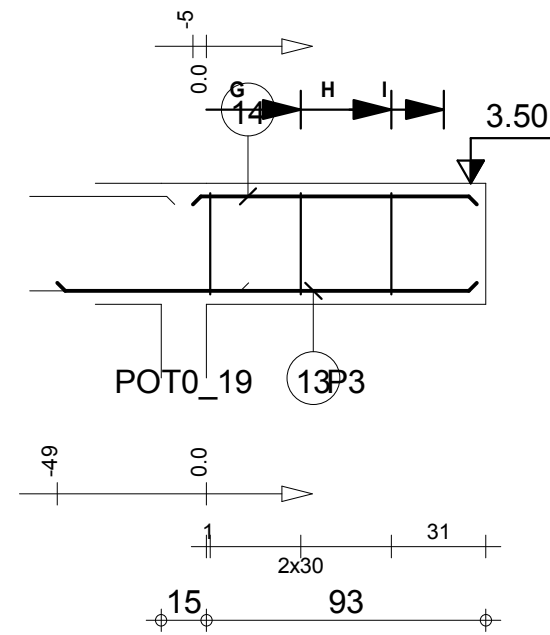
Acier HA 400 = 2.61 kg

Acier HA 400 = 15.4 kg

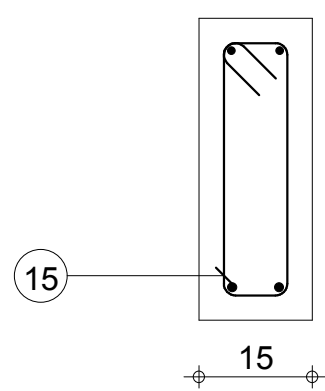
0

MINHDU_BAMBOUTOS_POUTRES

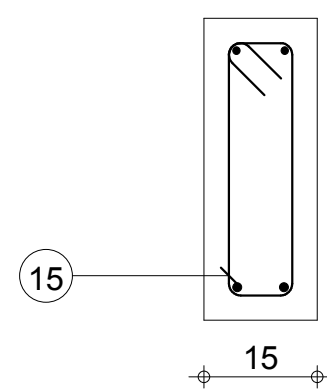
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 13 | 2HA 12 | l=1.39 | 00 | 1.39 |
| 14 | 2HA 10 | l=94 | 00 | 94 |
| 15 | 3HA 6 | l=98 | 31 |  |



G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU 3.OS: P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/3

Béton : BETON20 = 0.06 m3

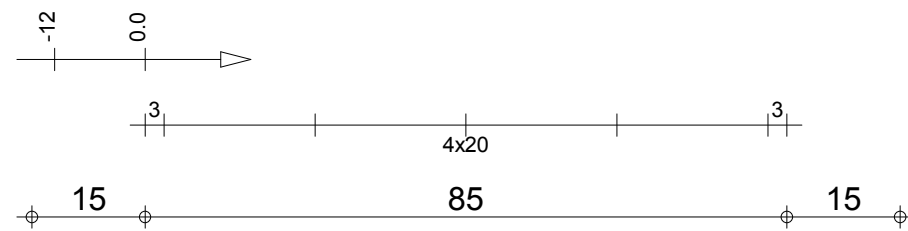
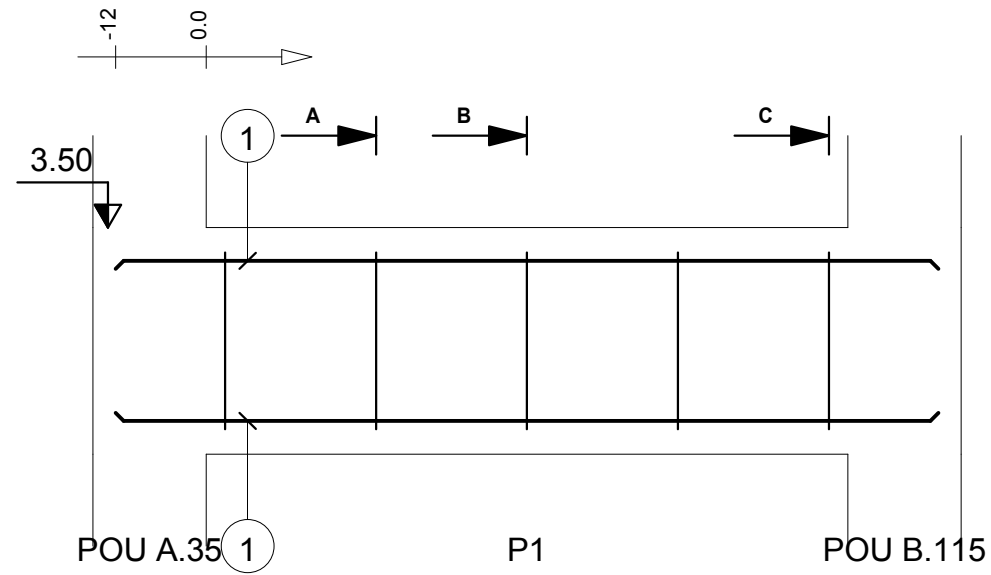
Acier HA 400 = 0.651 kg

Acier HA 400 = 3.63 kg

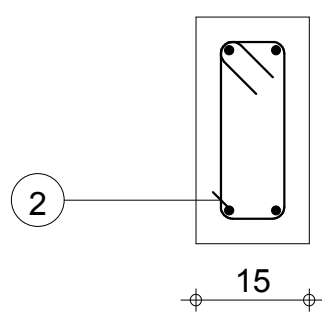
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MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|--------------|
| ① | 4HA 12 | I=1.09 | 00 1.09 |
| ② | 5HA 6 | I=78 | 31 9 8 |

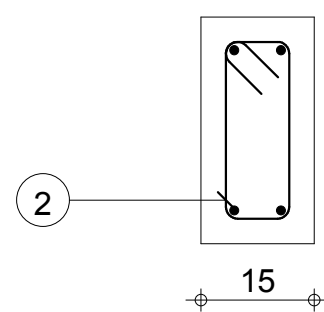


A-A



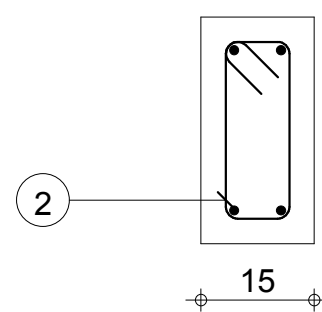
30

B-B



30

C-C



30

Tél.

Fax

Echelle pour la vue 1:10

Echelle pour la section 1:10

POU 5.AB: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/1


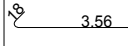
Béton : BETON20 = 0.0517 m³

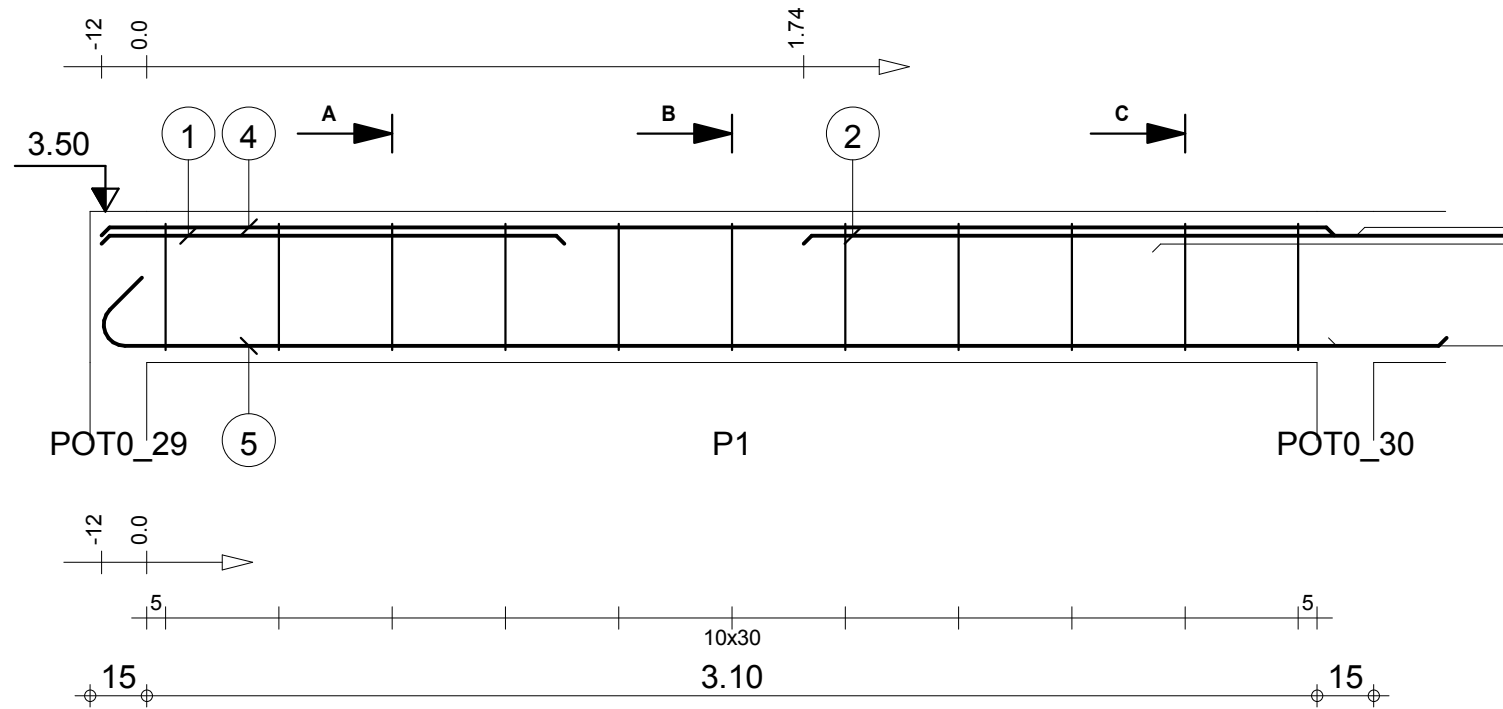
Acier HA 400 = 0.863 kg

Acier HA 400 = 3.87 kg

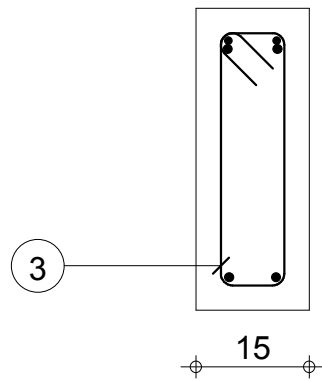
0

MINHDU_BAMBOUTOS_POUTRES

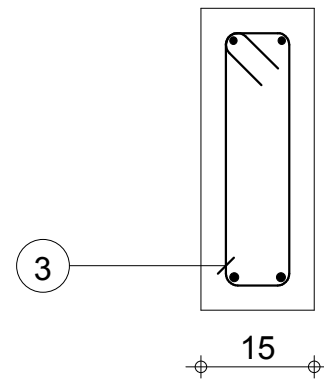
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.23 | 00 | 1.23 |
| ② | 2HA 12 | l=2.71 | 00 | 2.71 |
| ③ | 11HA 6 | l=98 | 31 |  |
| ④ | 2HA 10 | l=3.27 | 00 | 3.27 |
| ⑤ | 2HA 12 | l=3.75 | 00 |  |



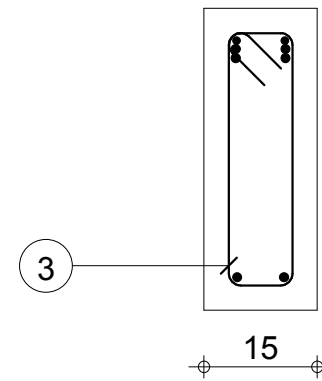
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 7.LR: P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.2 m3

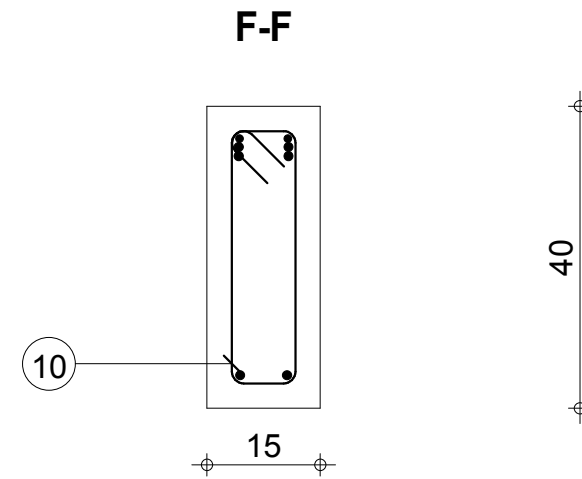
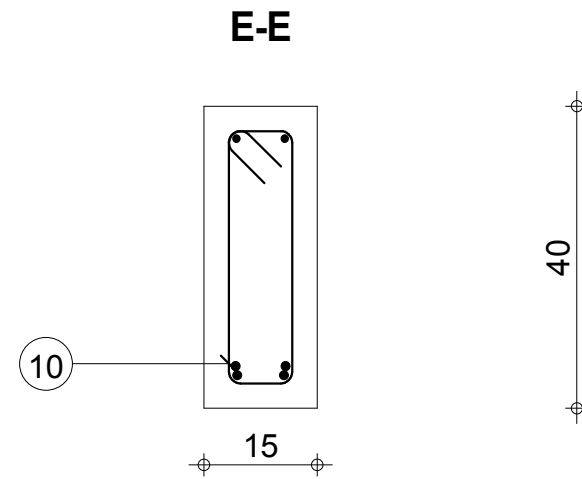
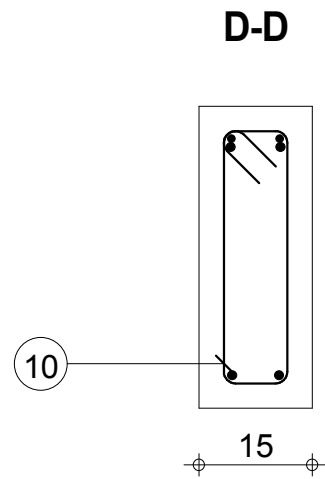
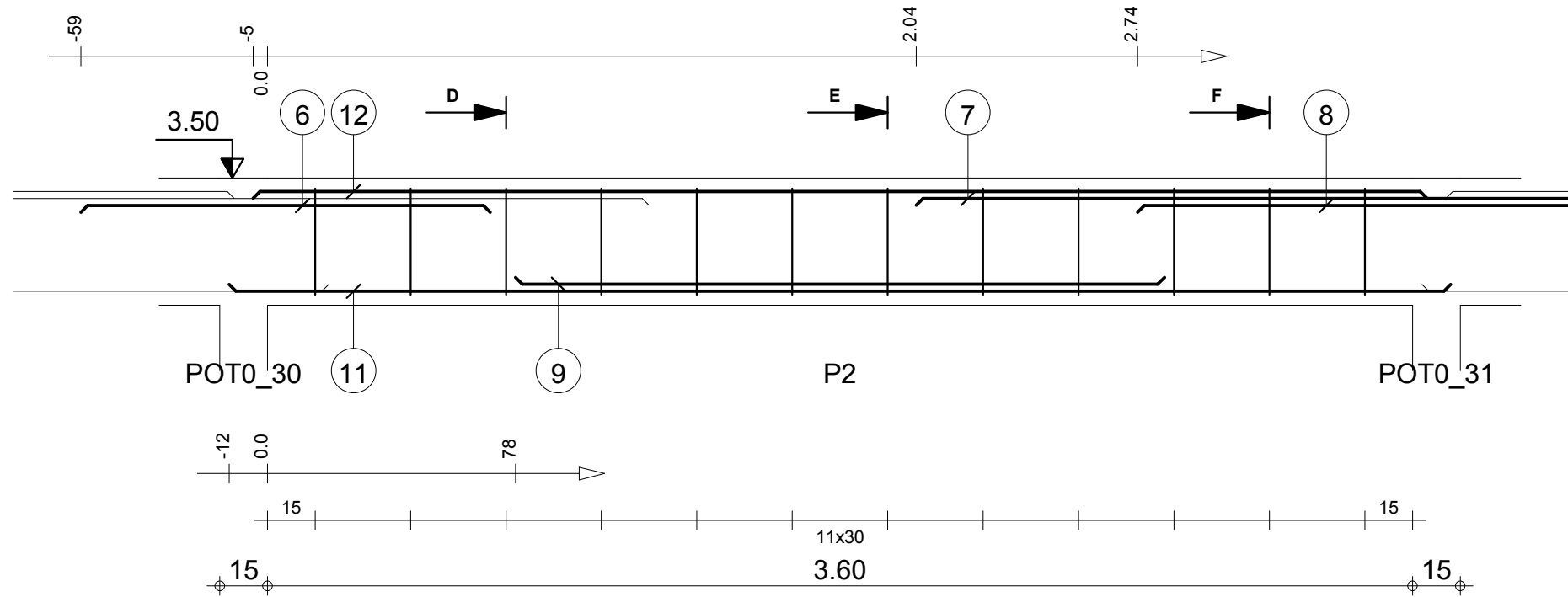
Acier HA 400 = 2.39 kg

Acier HA 400 = 17.7 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 6 | 2HA 12 | l=1.29 | 00 | 1.29 |
| 7 | 2HA 12 | l=3.27 | 00 | 3.27 |
| 8 | 2HA 12 | l=1.88 | 00 | 1.88 |
| 9 | 2HA 12 | l=2.04 | 00 | 2.04 |
| 10 | 12HA 6 | l=98 | 31 | |
| 11 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 12 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 7.LR: P2
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

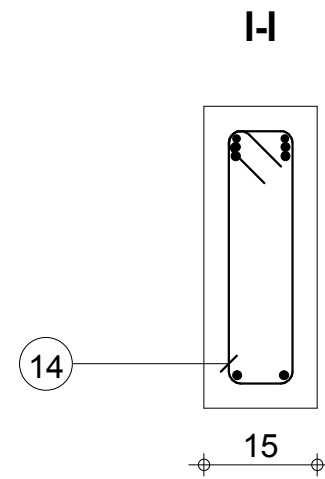
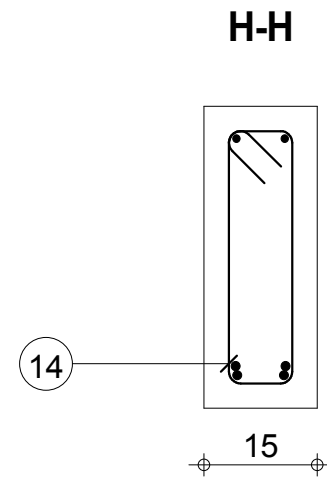
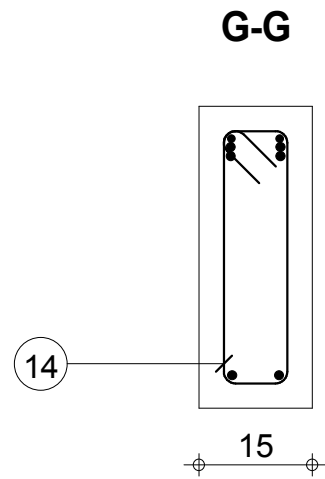
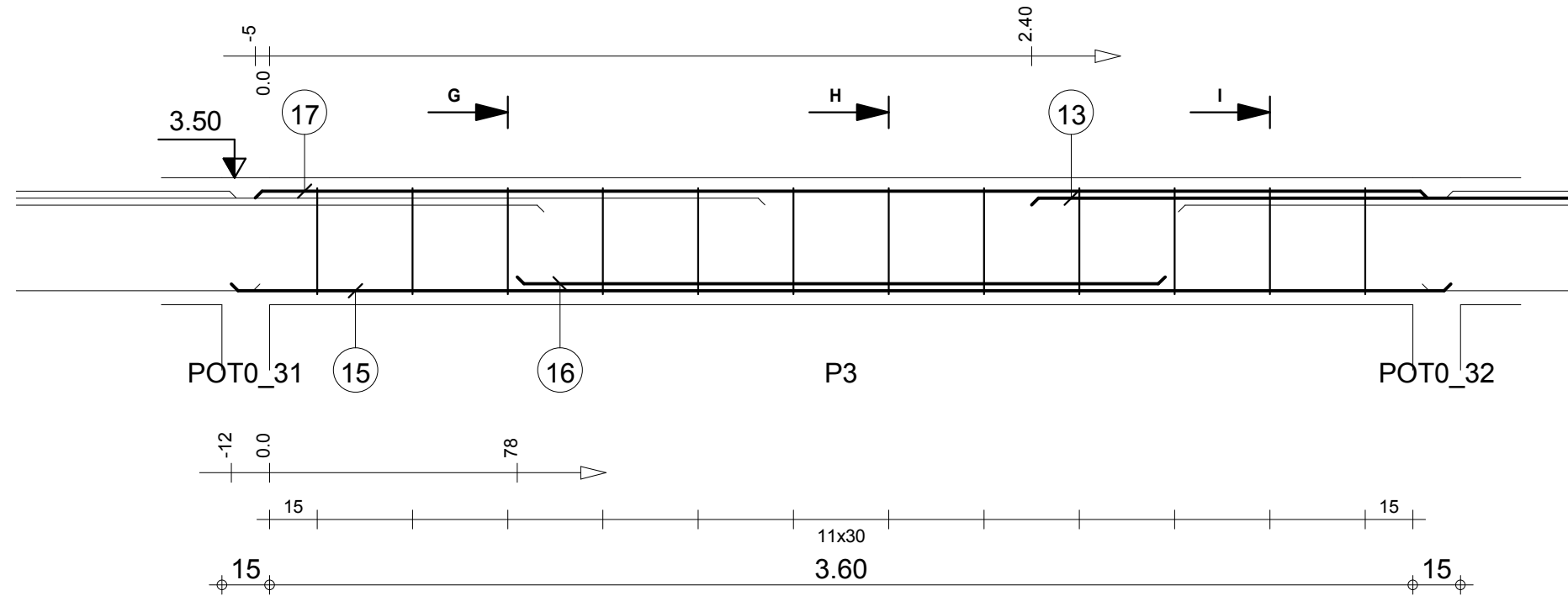
Page 2/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 2.61 kg
Acier HA 400 = 26.4 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=2.55 | 00 | 2.55 |
| 14 | 12HA 6 | l=98 | 31 | |
| 15 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 16 | 2HA 12 | l=2.04 | 00 | 2.04 |
| 17 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 7.LR: P3

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.225 m3

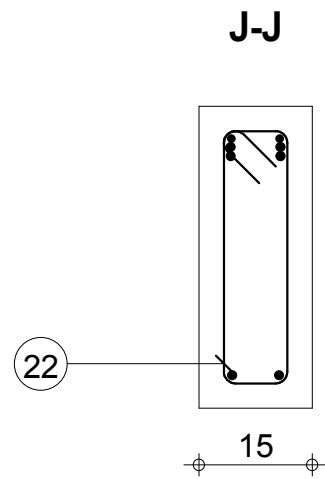
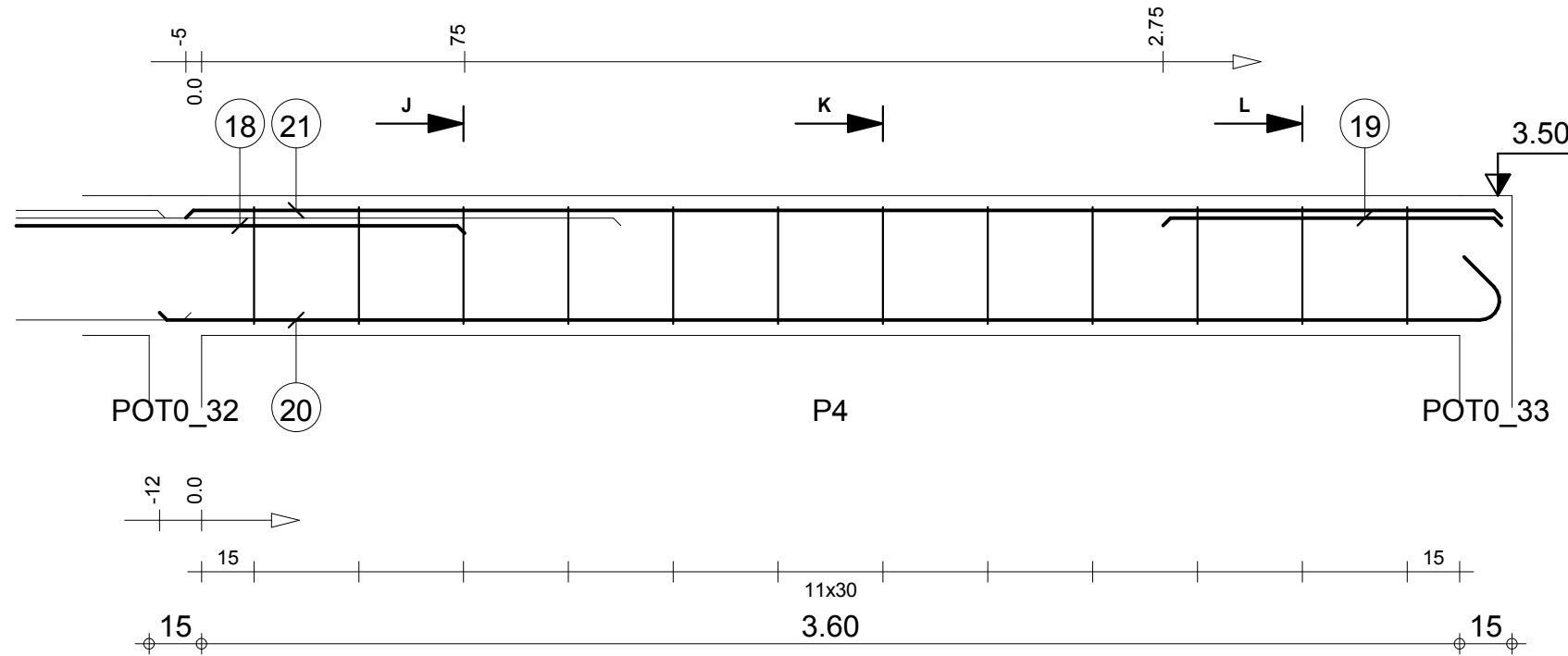
Acier HA 400 = 2.61 kg

Acier HA 400 = 19.5 kg

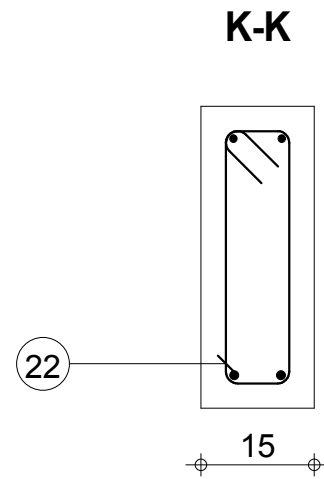
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MINHDU_BAMBOUTOS_POUTRES

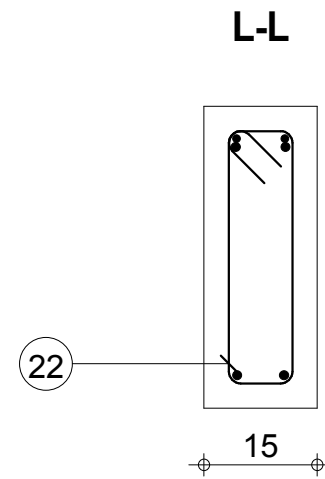
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 18 | 2HA 12 | l=1.64 | 00 | 1.64 |
| 19 | 2HA 12 | l=97 | 00 | 97 |
| 20 | 2HA 12 | l=4.03 | 00 | 3.84 |
| 21 | 2HA 10 | l=3.77 | 00 | 3.77 |
| 22 | 12HA 6 | l=98 | 31 | |



40



40



40

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 7.LR: P4

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.23 m3

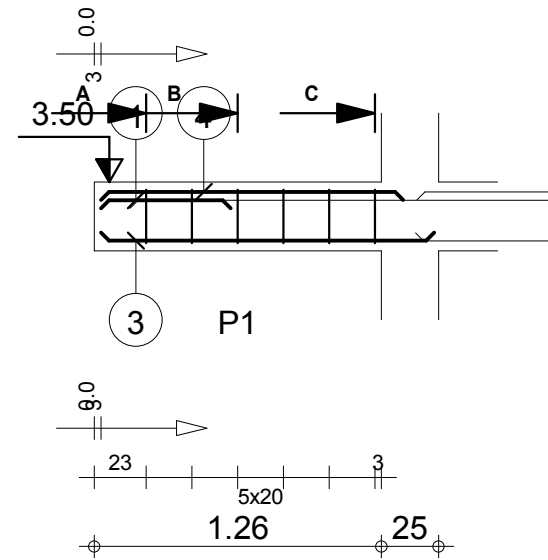
Acier HA 400 = 2.61 kg

Acier HA 400 = 16.4 kg

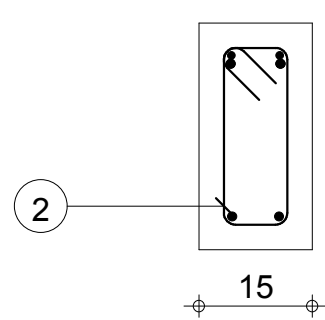
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MINHDU_BAMBOUTOS_POUTRES

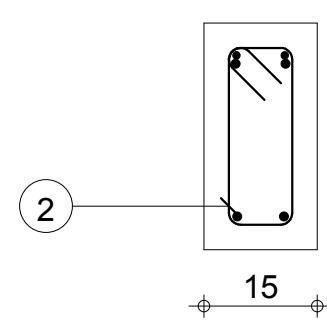
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=57 | 00 | 57 |
| ② | 6HA 6 | l=78 | 31 | |
| ③ | 2HA 12 | l=1.46 | 00 | 1.46 |
| ④ | 2HA 10 | l=1.32 | 00 | 1.32 |



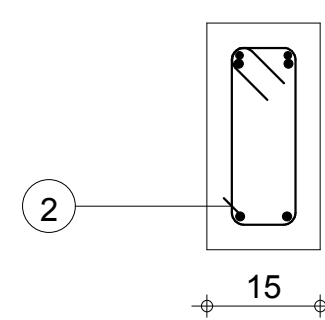
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:33

Echelle pour la section 1:10

POU 9.LP': P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/2

Béton : BETON20 = 0.0621 m3

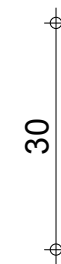
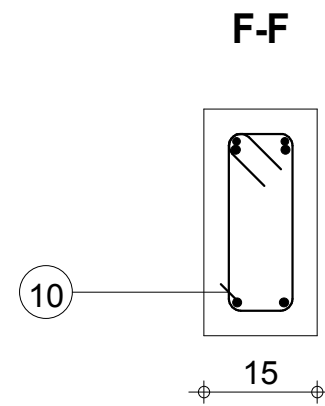
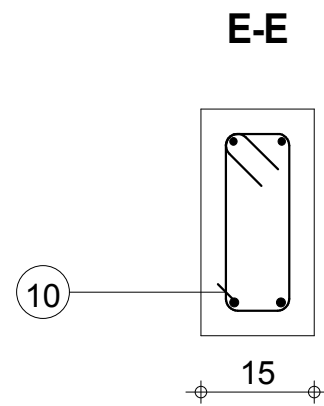
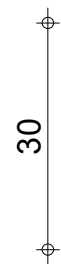
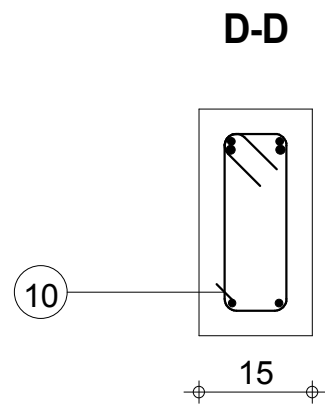
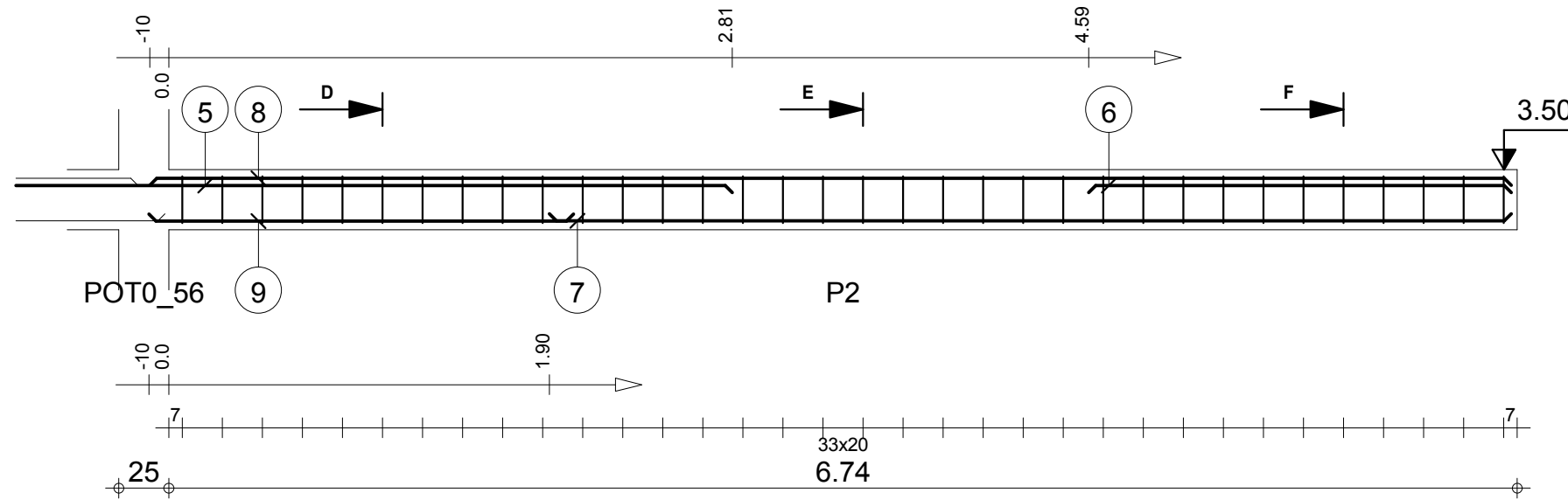
Acier HA 400 = 1.04 kg

Acier HA 400 = 5.22 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 5 | 2HA 12 | l=4.16 | 4.16 |
| 6 | 2HA 12 | l=2.11 | 2.11 |
| 7 | 2HA 12 | l=4.80 | 4.80 |
| 8 | 2HA 10 | l=6.80 | 6.80 |
| 9 | 2HA 10 | l=2.12 | 2.12 |
| 10 | 34HA 6 | l=78* | |



Tél.
Fax

Echelle pour la vue 1:33
Echelle pour la section 1:10

POU 9.LP': P2
Section 15x30


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

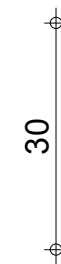
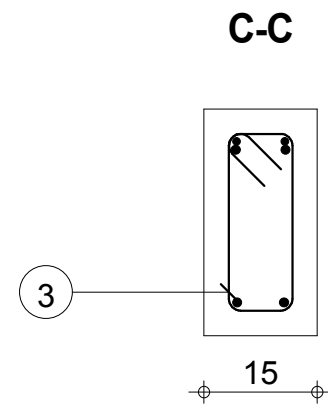
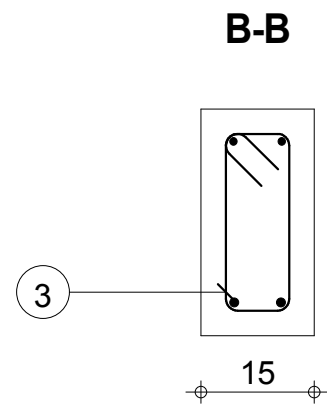
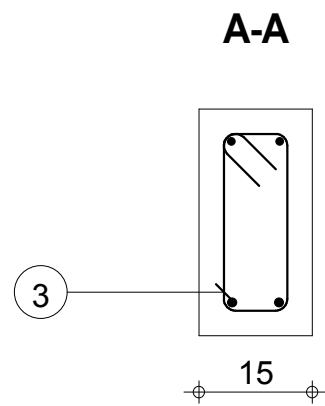
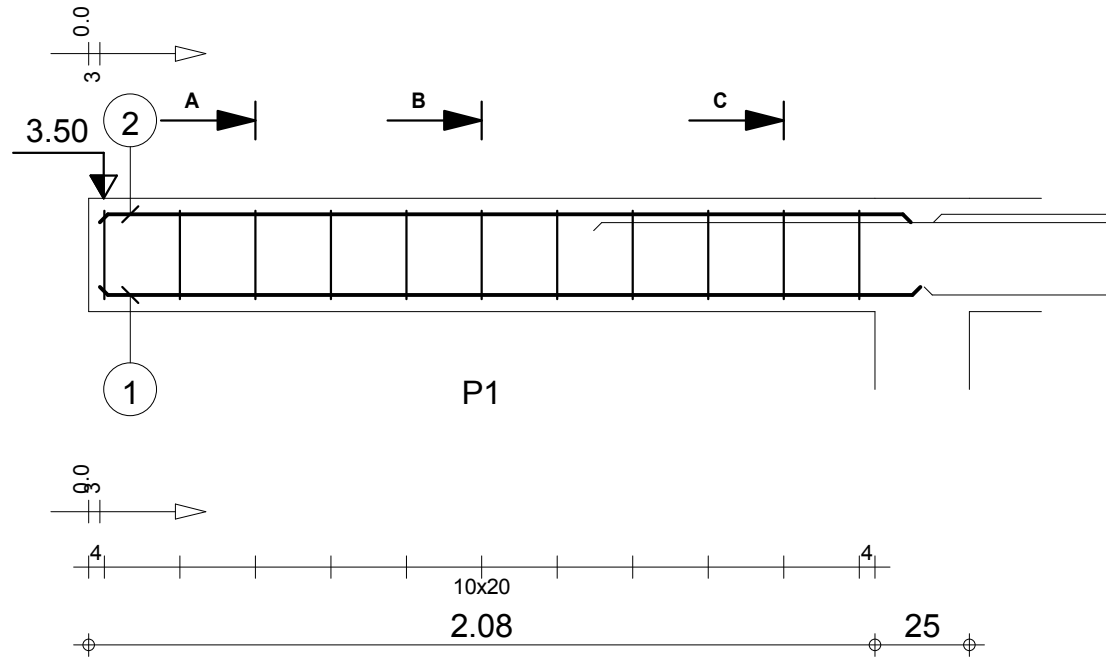
Page 2/2

Béton : BETON20 = 0.309 m3
Acier HA 400 = 5.86 kg
Acier HA 400 = 30.7 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| ① | 2HA 12 | l=2.17 | 00 2.17 |
| ② | 2HA 10 | l=2.15 | 00 2.15 |
| ③ | 11HA 6 | l=78 | 31  |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 15. BC': P1
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

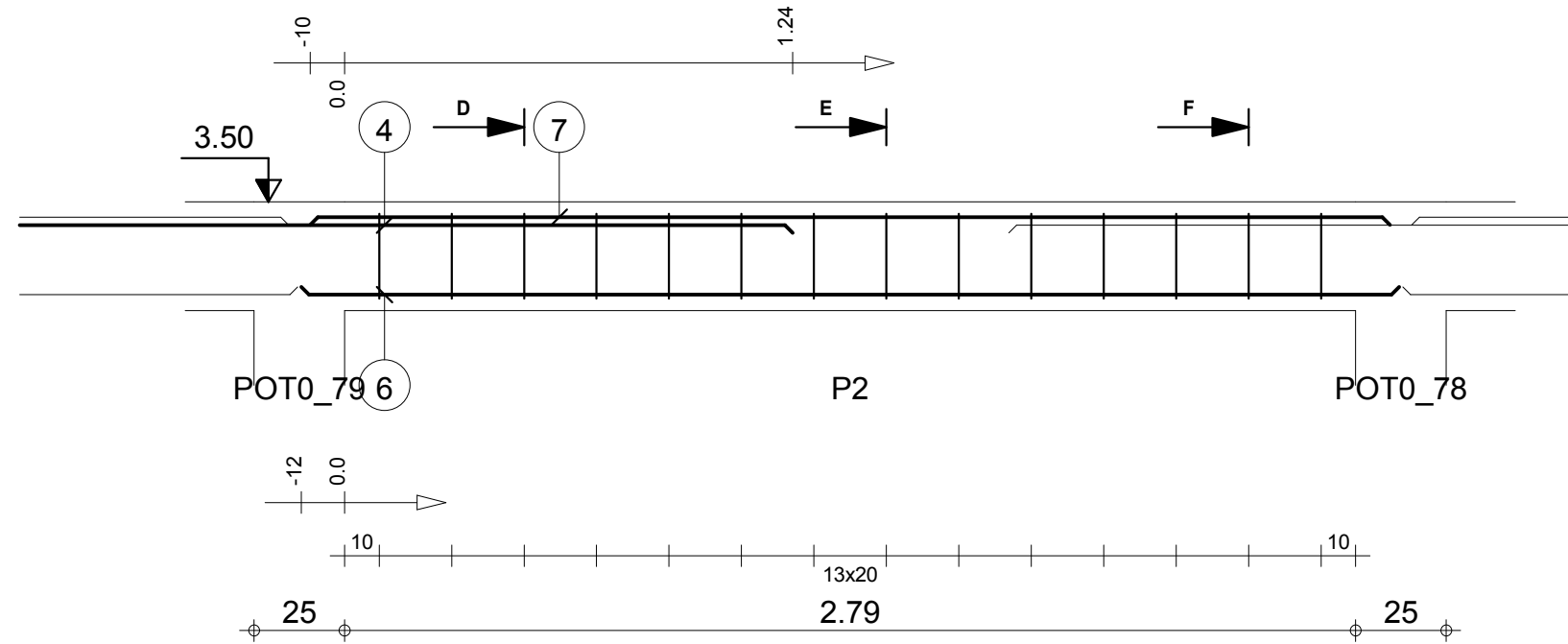
Page 1/4

Béton : BETON20 = 0.0994 m³
Acier HA 400 = 1.9 kg
Acier HA 400 = 6.51 kg

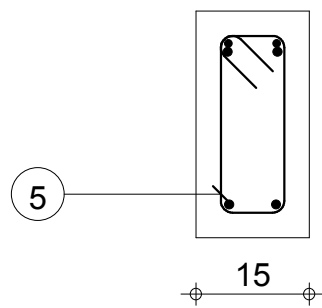
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MINHDU_BAMBOUTOS_POUTRES

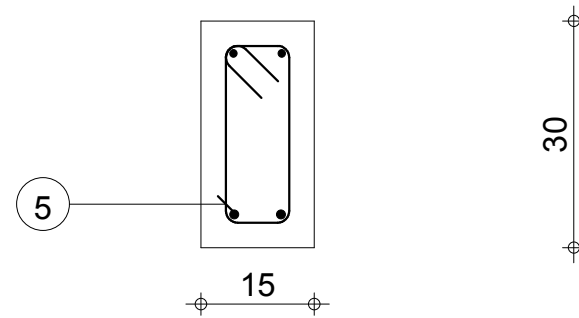
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ④ | 2HA 12 | l=2.23 | 00 | 2.23 |
| ⑤ | 14HA 6 | l=78 | 31 | |
| ⑥ | 2HA 12 | l=3.03 | 00 | 3.03 |
| ⑦ | 2HA 10 | l=2.98 | 00 | 2.98 |



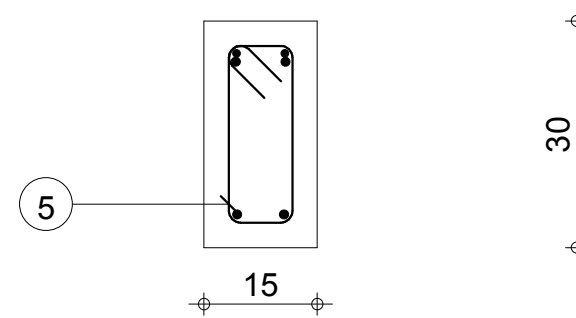
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 15. BC': P2

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.137 m³

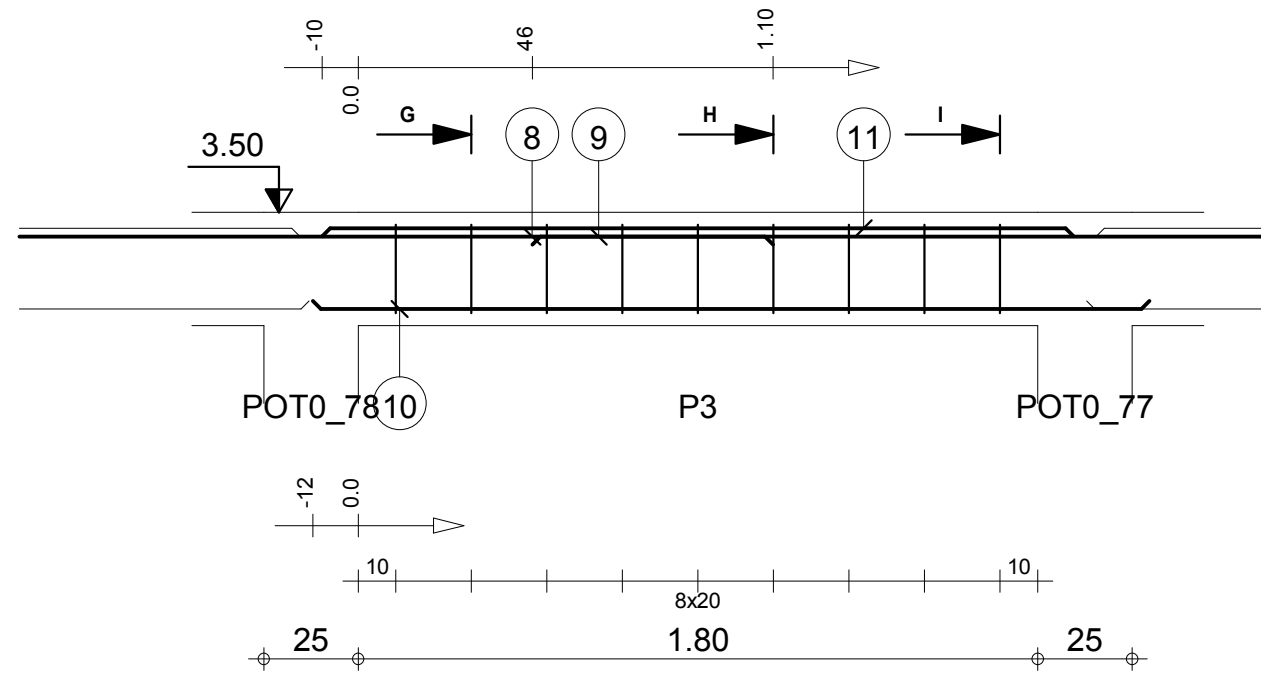
Acier HA 400 = 2.42 kg

Acier HA 400 = 13 kg

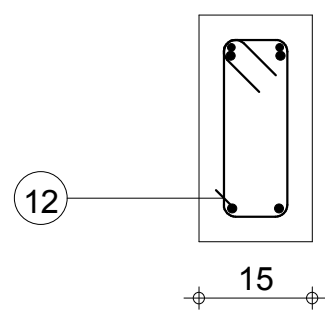
0

MINHDU_BAMBOUTOS_POUTRES

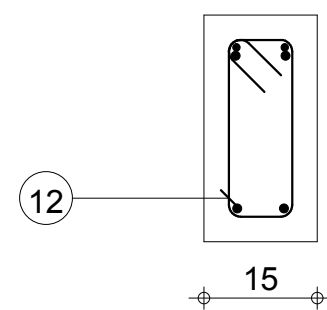
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| 8 | 2HA 12 | l=2.31 | 00 2.31 |
| 9 | 2HA 12 | l=2.55 | 00 2.55 |
| 10 | 2HA 12 | l=2.22 | 00 2.22 |
| 11 | 2HA 10 | l=1.99 | 00 1.99 |
| 12 | 9HA 6 | l=78 | 31 |



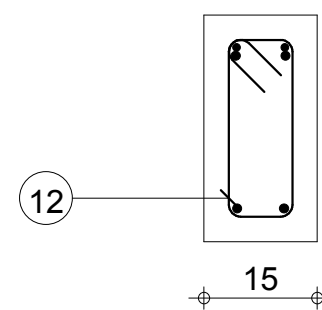
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 15. BC': P3

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.0922 m3

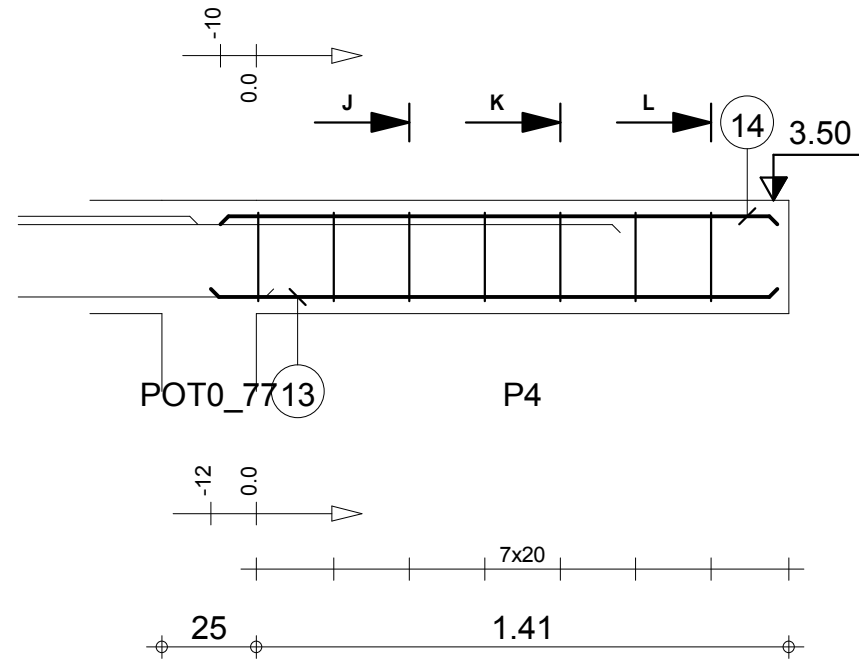
Acier HA 400 = 1.55 kg

Acier HA 400 = 15 kg

0

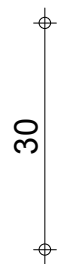
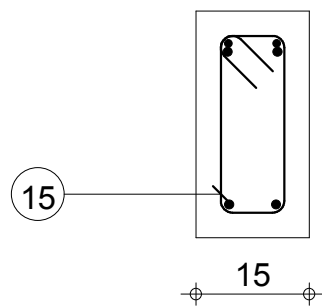
MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=1.50 | 00 | 1.50 |
| 14 | 2HA 10 | l=1.48 | 00 | 1.48 |
| 15 | 7HA 6 | l=78 | 31 | |

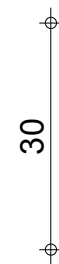
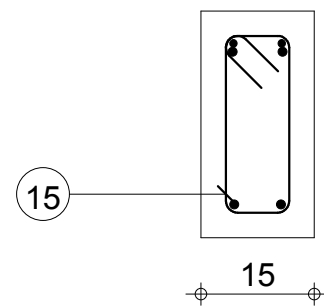


POT0_7713 P4

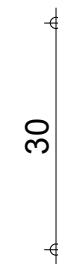
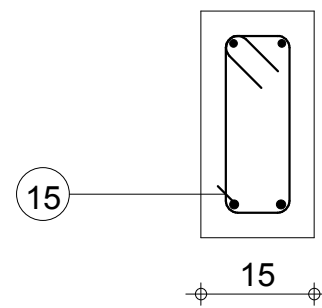
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 15. BC': P4
Section 15x30


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

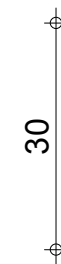
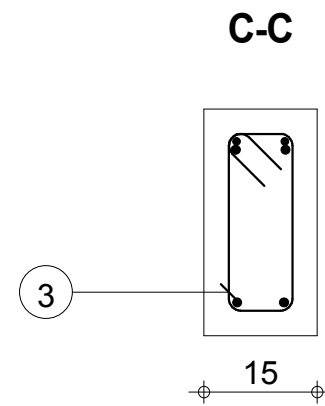
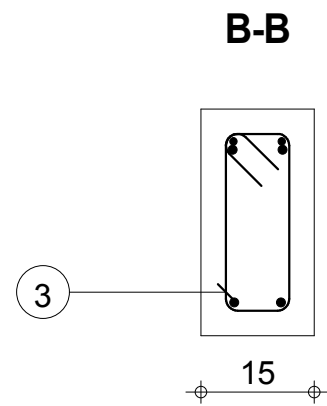
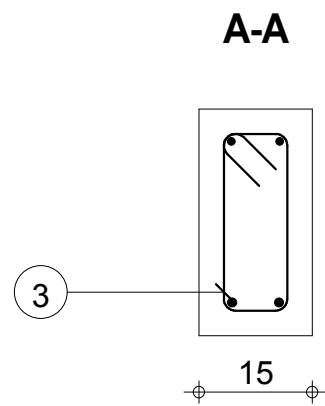
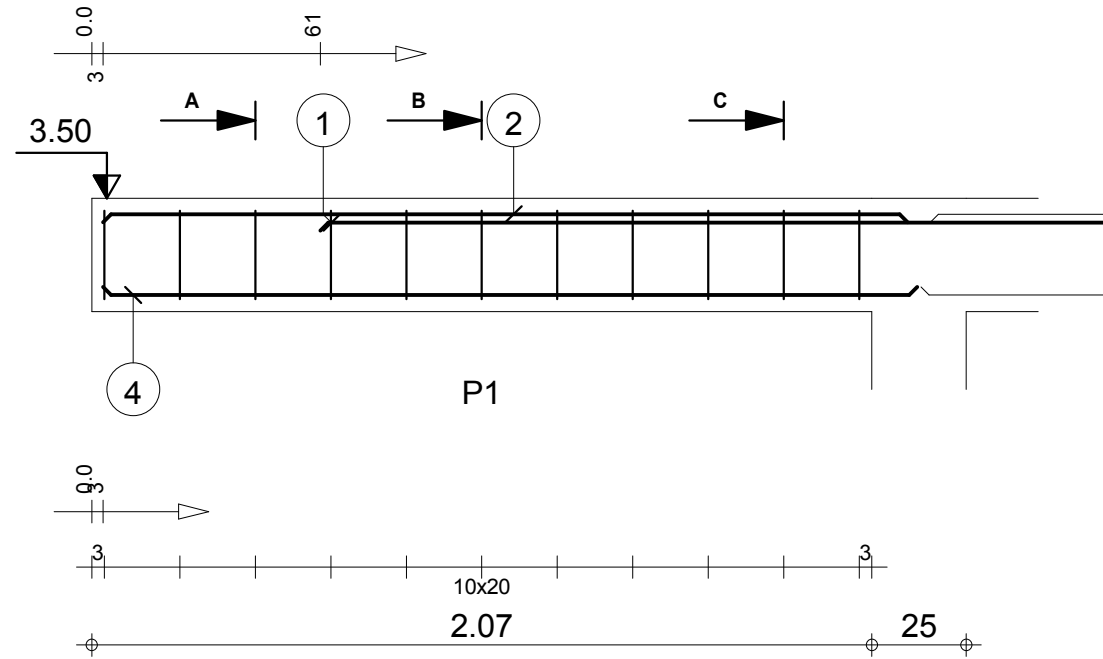
Page 4/4

Béton : BETON20 = 0.0691 m3
Acier HA 400 = 1.21 kg
Acier HA 400 = 4.48 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=2.67 | 00 | 2.67 |
| ② | 2HA 10 | l=2.13 | 00 | 2.13 |
| ③ | 11HA 6 | l=78 | 31 |  |
| ④ | 2HA 12 | l=2.16 | 00 | 2.16 |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 16.P'R: P1

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4


Béton : BETON20 = 0.0986 m³

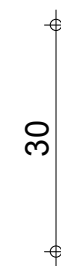
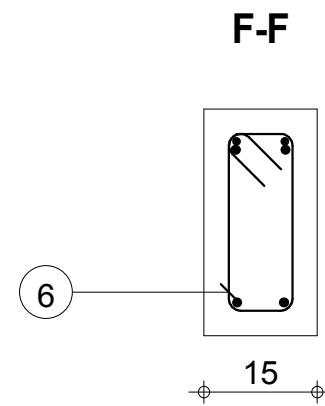
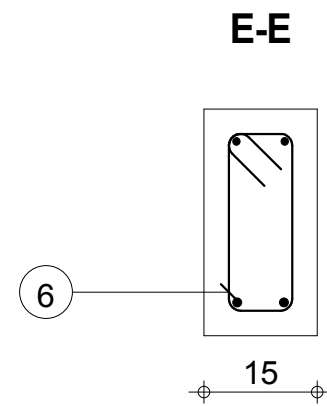
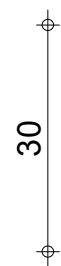
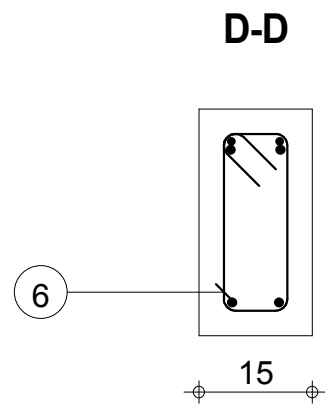
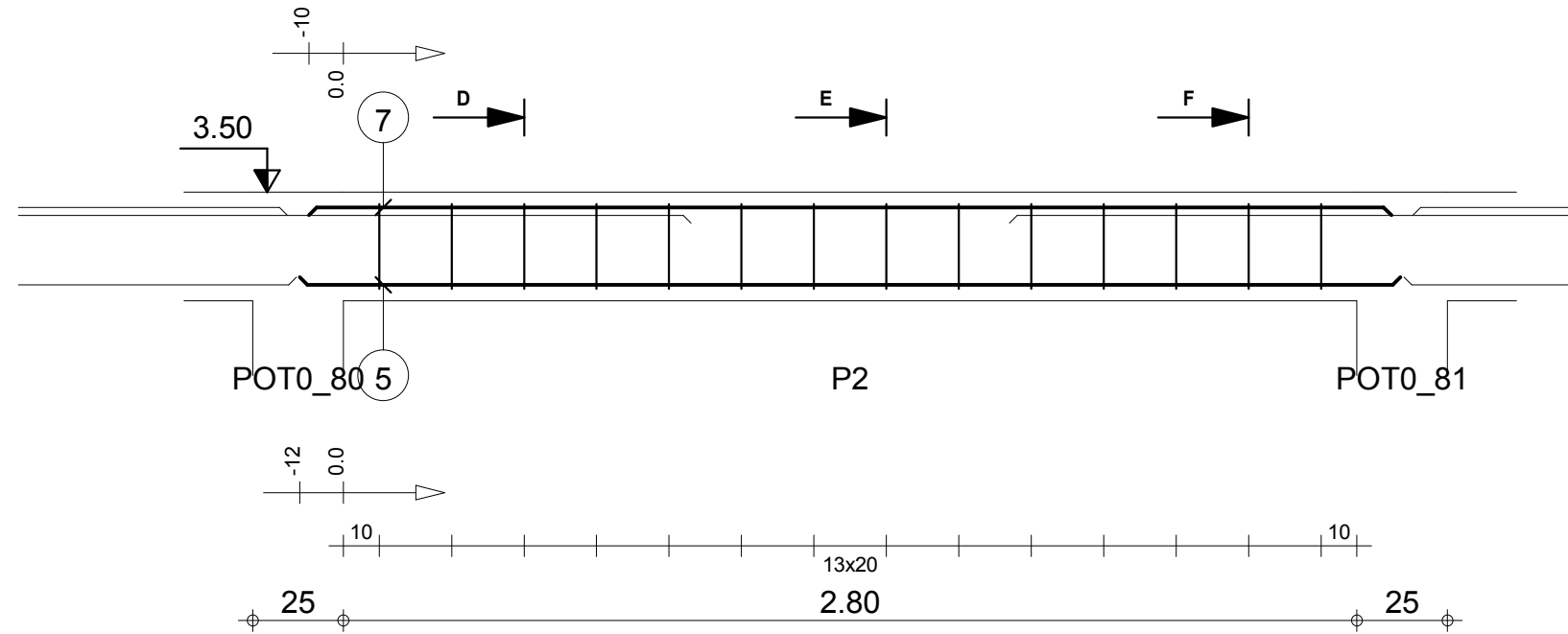
Acier HA 400 = 1.9 kg

Acier HA 400 = 11.2 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 5 | 2HA 12 | l=3.04 | 00 | 3.04 |
| 6 | 14HA 6 | l=78 | 31 |  |
| 7 | 2HA 10 | l=2.99 | 00 | 2.99 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 16.P'R: P2
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

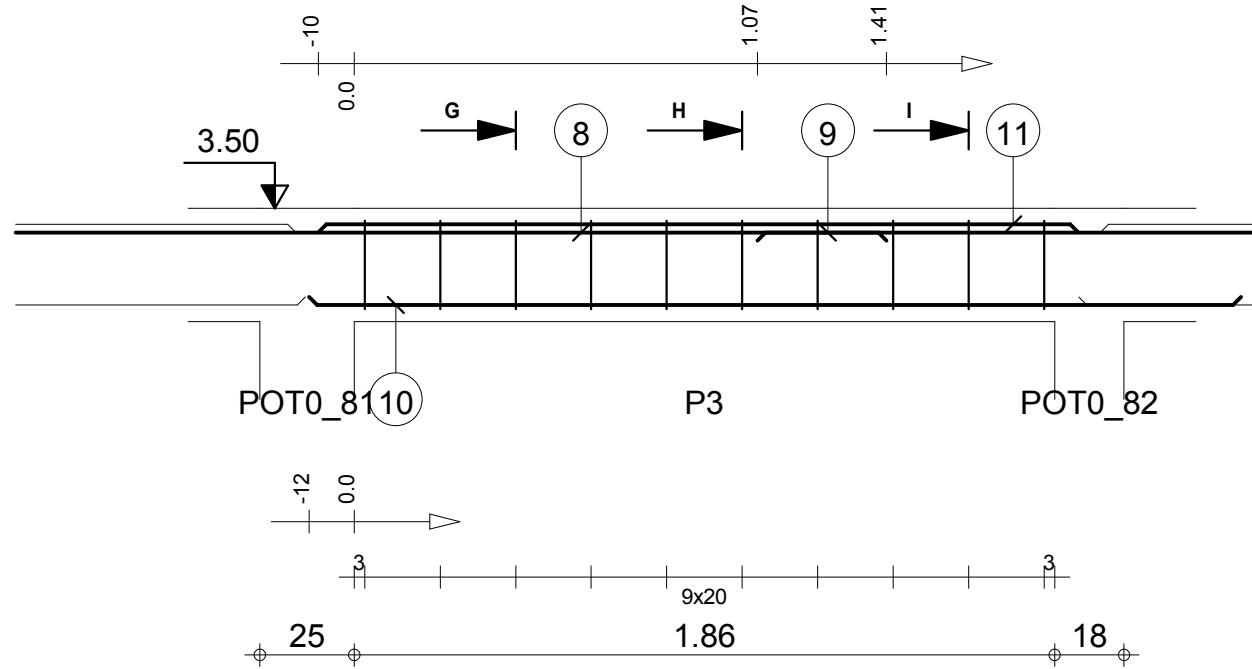
Page 2/4

Béton : BETON20 = 0.137 m³
Acier HA 400 = 2.42 kg
Acier HA 400 = 9.08 kg

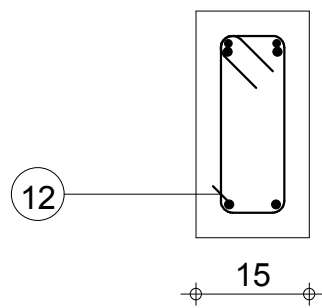
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MINHDU_BAMBOUTOS_POUTRES

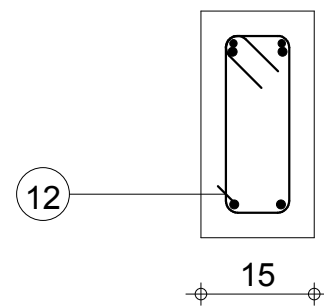
| Pos. | Armature | Code | Forme |
|------|----------|--------|------------|
| 8 | 2HA 12 | l=2.62 | 00 2.62 |
| 9 | 2HA 12 | l=1.54 | 00 1.54 |
| 10 | 2HA 12 | l=2.47 | 00 2.47 |
| 11 | 2HA 10 | l=2.01 | 00 2.01 |
| 12 | 10HA 6 | l=78 | 31 |



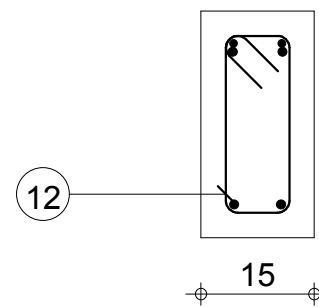
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 16.P'R: P3

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.0932 m3

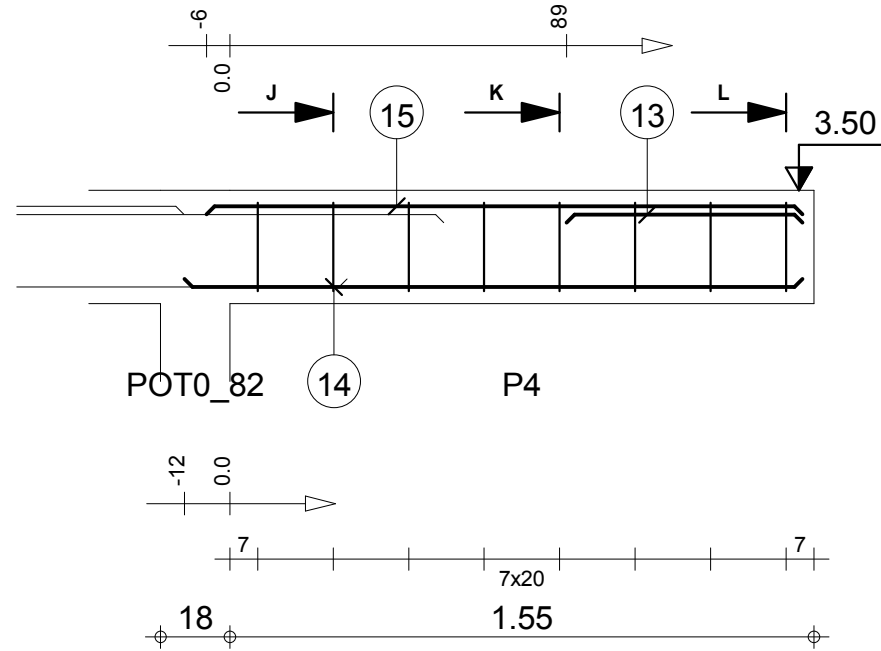
Acier HA 400 = 1.73 kg

Acier HA 400 = 14.2 kg

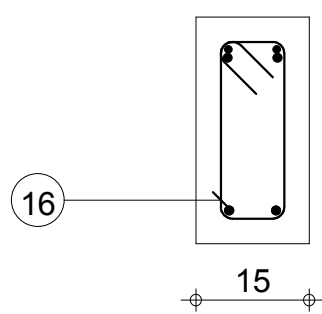
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MINHDU_BAMBOUTOS_POUTRES

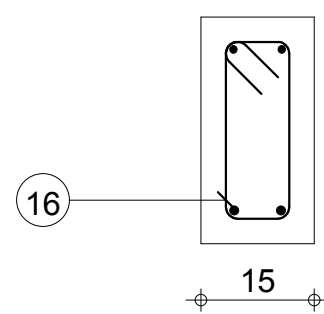
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 13 | 2HA 12 | l=63 | 00 | |
| 14 | 2HA 12 | l=1.64 | 00 | |
| 15 | 2HA 10 | l=1.58 | 00 | |
| 16 | 8HA 6 | l=78 | 31 | |



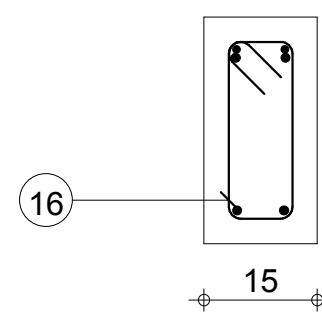
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 16.P'R: P4

Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

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
Béton : BETON20 = 0.0737 m3

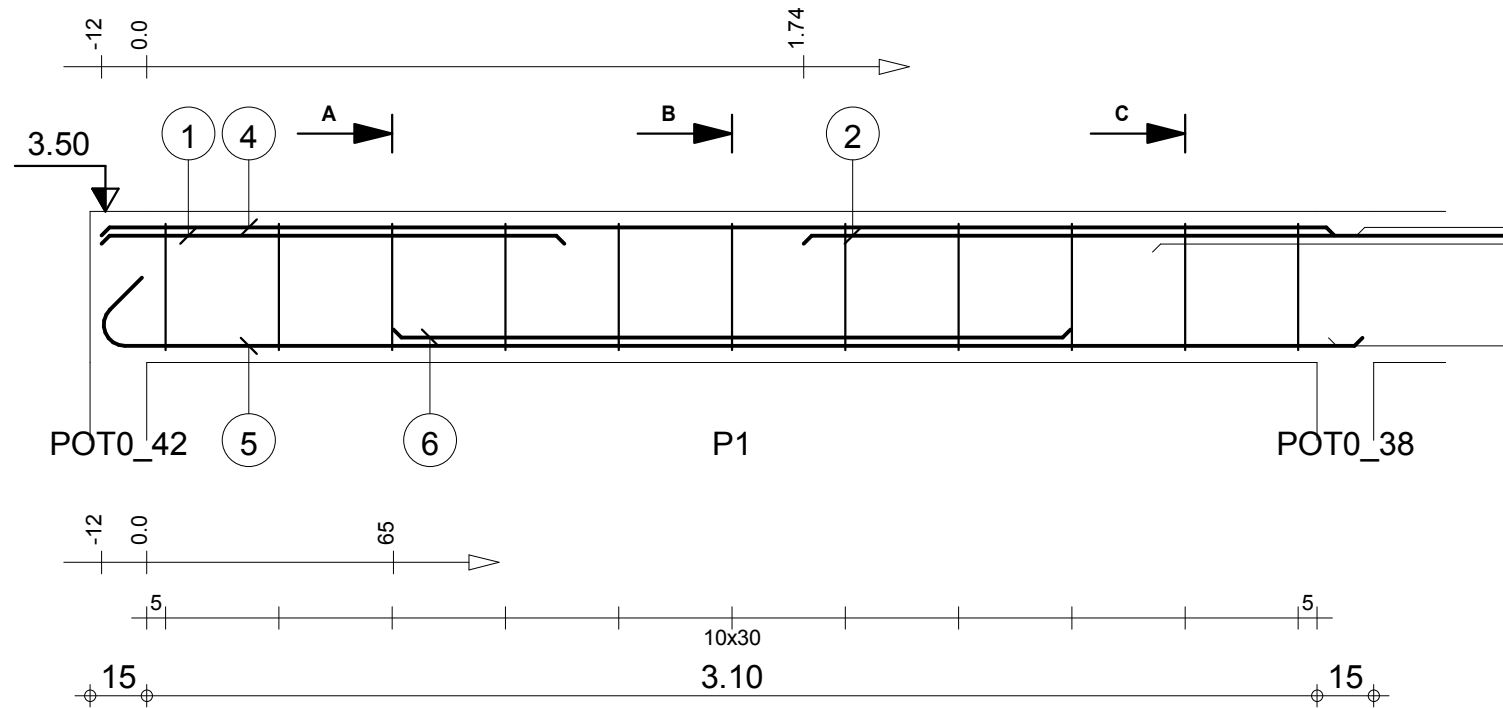
Acier HA 400 = 1.38 kg

Acier HA 400 = 5.96 kg

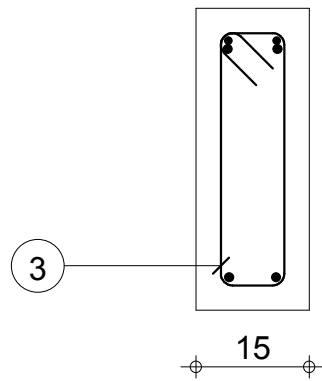
0

MINHDU_BAMBOUTOS_POUTRES

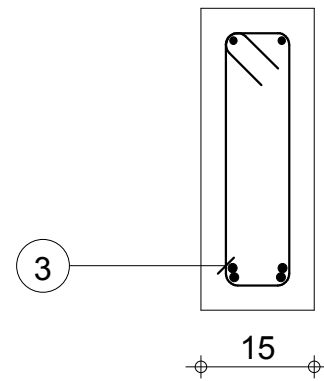
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.23 | 00 | 1.23 |
| ② | 2HA 12 | l=2.71 | 00 | 2.71 |
| ③ | 11HA 6 | l=98 | 31 |  |
| ④ | 2HA 10 | l=3.27 | 00 | 3.27 |
| ⑤ | 2HA 12 | l=3.53 | 00 | 3.34 |
| ⑥ | 2HA 12 | l=1.79 | 00 | 1.79 |



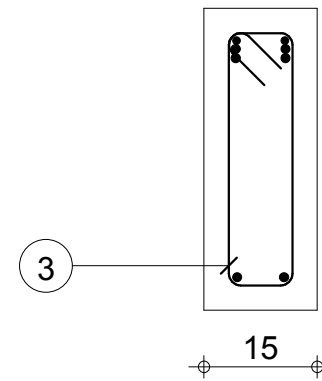
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 8.LQ': P1

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.2 m3

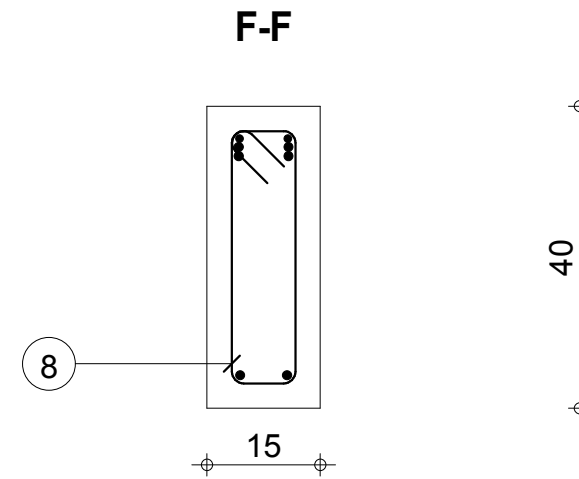
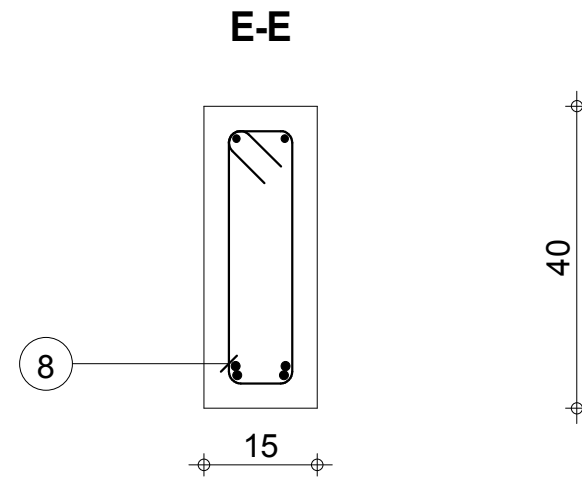
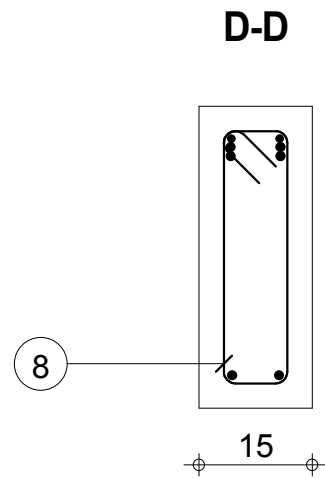
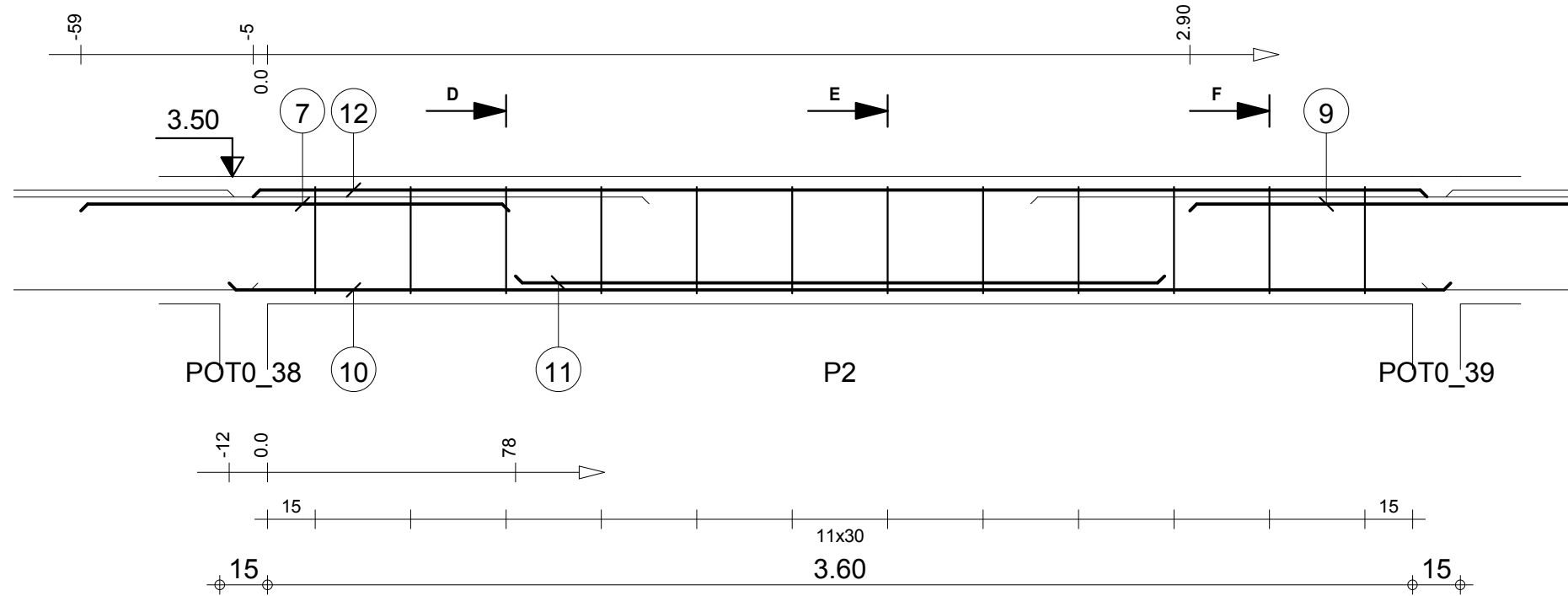
Acier HA 400 = 2.39 kg

Acier HA 400 = 20.5 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=1.35 | 00 | 1.35 |
| 8 | 12HA 6 | l=98 | 31 | |
| 9 | 2HA 12 | l=1.51 | 00 | 1.51 |
| 10 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 11 | 2HA 12 | l=2.04 | 00 | 2.04 |
| 12 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.LQ': P2
Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

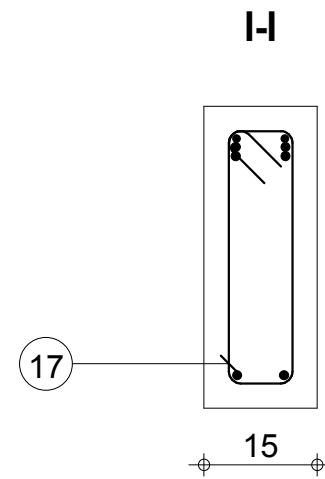
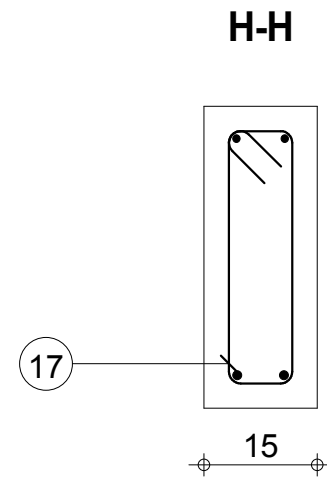
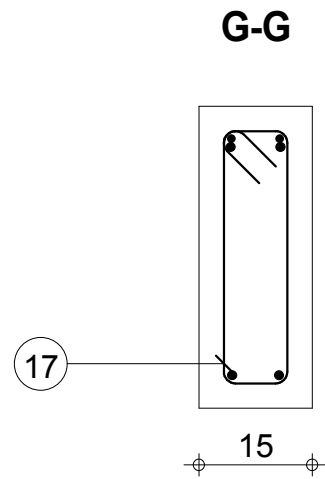
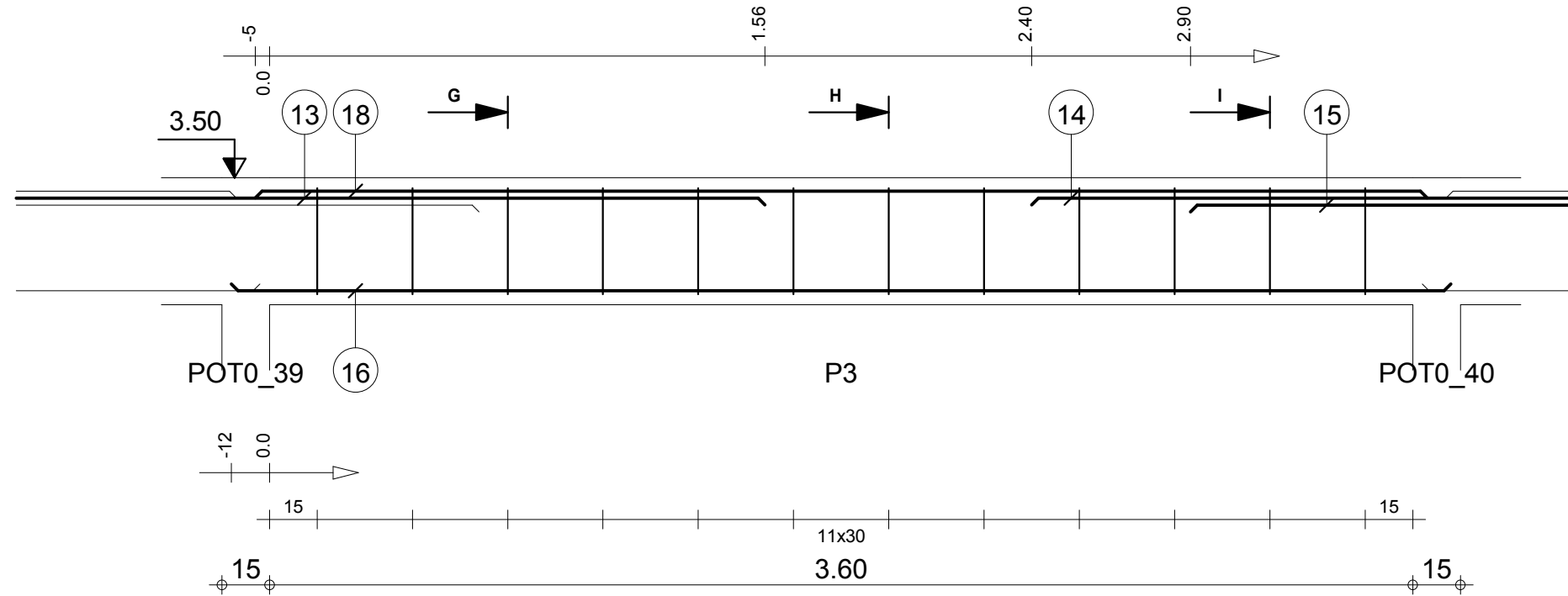
Page 2/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 2.61 kg
Acier HA 400 = 20.1 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|------|
| 13 | 2HA 12 | l=2.91 | 00 | 2.91 |
| 14 | 2HA 12 | l=2.24 | 00 | 2.24 |
| 15 | 2HA 12 | l=1.28 | 00 | 1.27 |
| 16 | 2HA 12 | l=3.84 | 00 | 3.84 |
| 17 | 12HA 6 | l=98 | 31 | |
| 18 | 2HA 10 | l=3.69 | 00 | 3.69 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU 8.LQ': P3
Section 15x40


Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

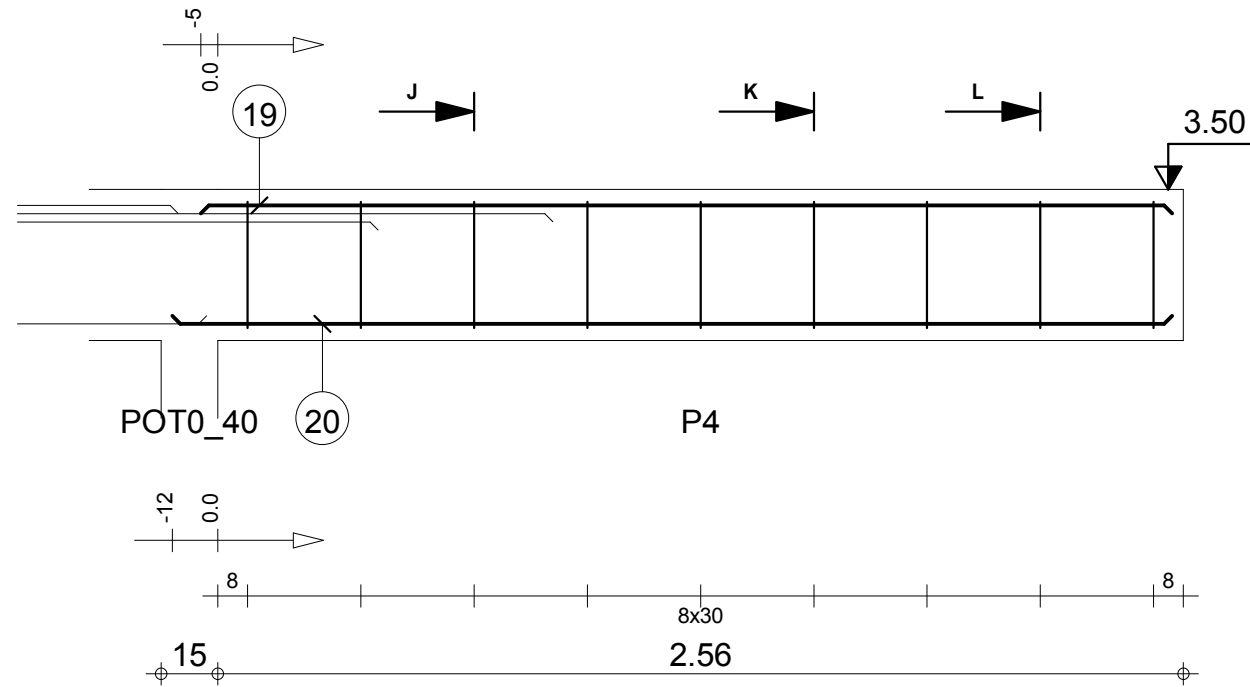
Page 3/4

Béton : BETON20 = 0.225 m3
Acier HA 400 = 2.61 kg
Acier HA 400 = 22.8 kg

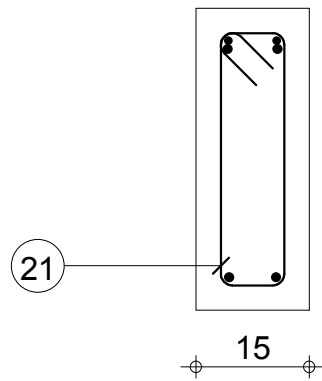
0

MINHDU_BAMBOUTOS_POUTRES

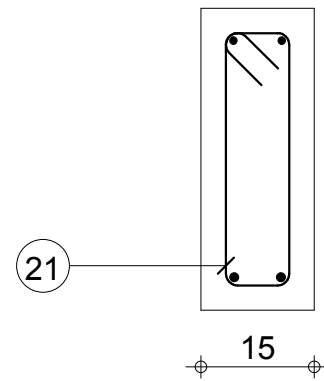
| Pos. | Armature | Code | Forme |
|------|----------|--------|---|
| 19 | 2HA 10 | l=2.57 | 00 2.57 |
| 20 | 2HA 12 | l=2.65 | 00 2.65 |
| 21 | 9HA 6 | l=98 | 31  |



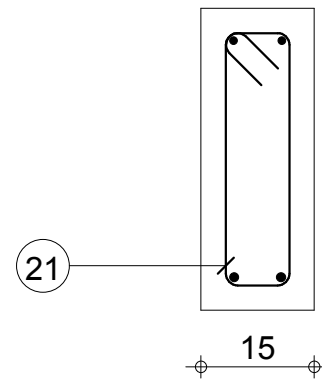
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU 8.LQ': P4

Section 15x40

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.158 m3

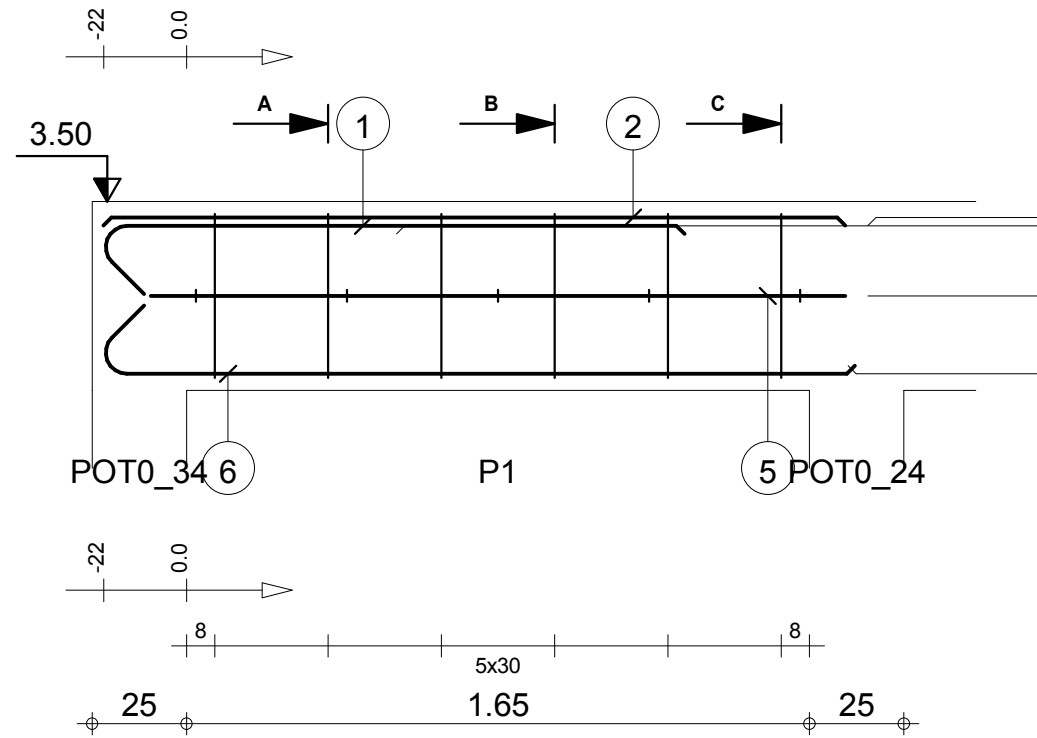
Acier HA 400 = 1.95 kg

Acier HA 400 = 7.87 kg

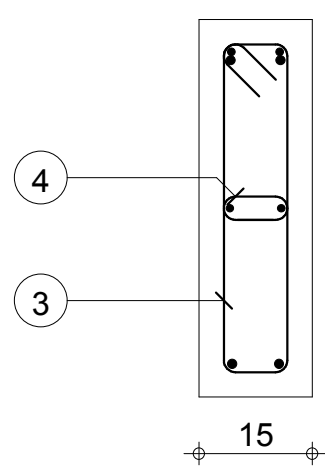
0

MINHDU_BAMBOUTOS_POUTRES

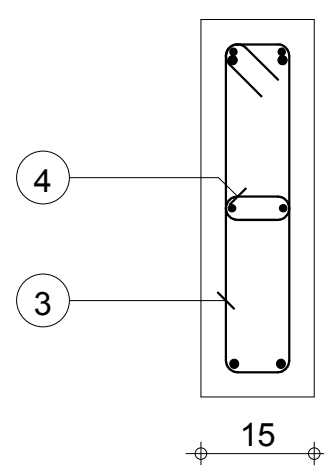
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.73 | 00 | |
| ② | 2HA 10 | l=1.97 | 00 | |
| ③ | 6HA 6 | l=1.18 | 31 | |
| ④ | 5HA 6 | l=25 | 00 | |
| ⑤ | 2HA 10 | l=1.84 | 00 | |
| ⑥ | 2HA 12 | l=2.18 | 00 | |



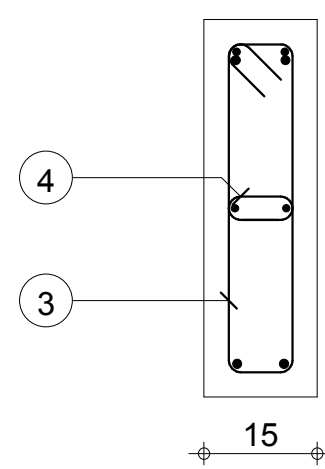
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU C.18: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.152 m3

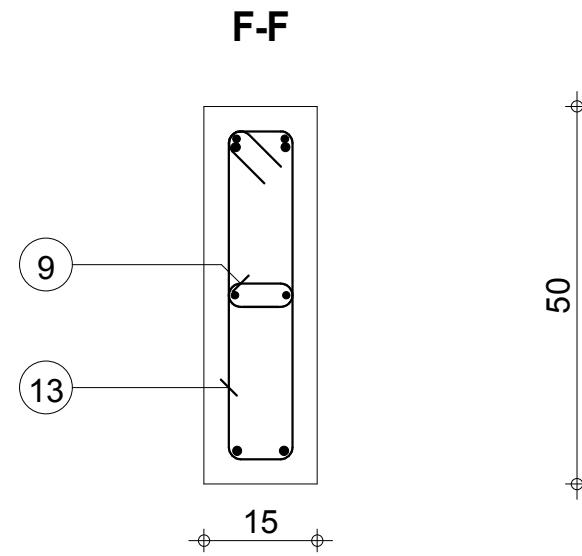
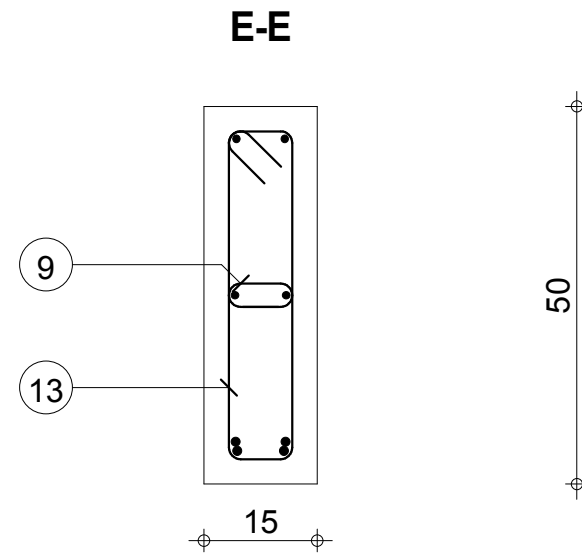
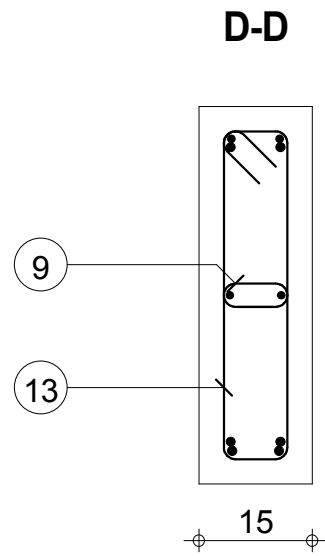
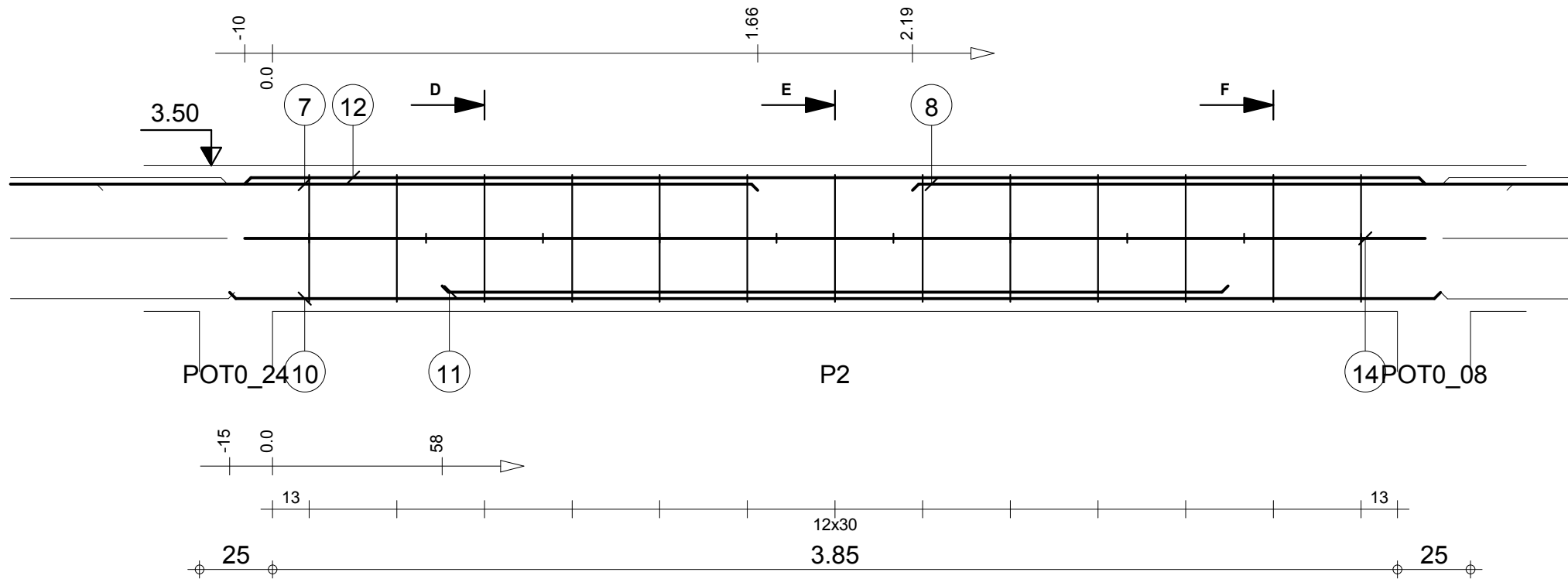
Acier HA 400 = 4.12 kg

Acier HA 400 = 9.36 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme | |
|------|----------|--------|-------|--|
| 7 | 2HA 12 | l=3.00 | 00 | |
| 8 | 2HA 12 | l=2.97 | 00 | |
| 9 | 10HA 6 | l=25 | 00 | |
| 10 | 2HA 12 | l=4.15 | 00 | |
| 11 | 2HA 12 | l=2.69 | 00 | |
| 12 | 2HA 10 | l=4.04 | 00 | |
| 13 | 13HA 6 | l=1.18 | 31 | |
| 14 | 2HA 10 | l=4.04 | 00 | |



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU C.18: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.308 m3

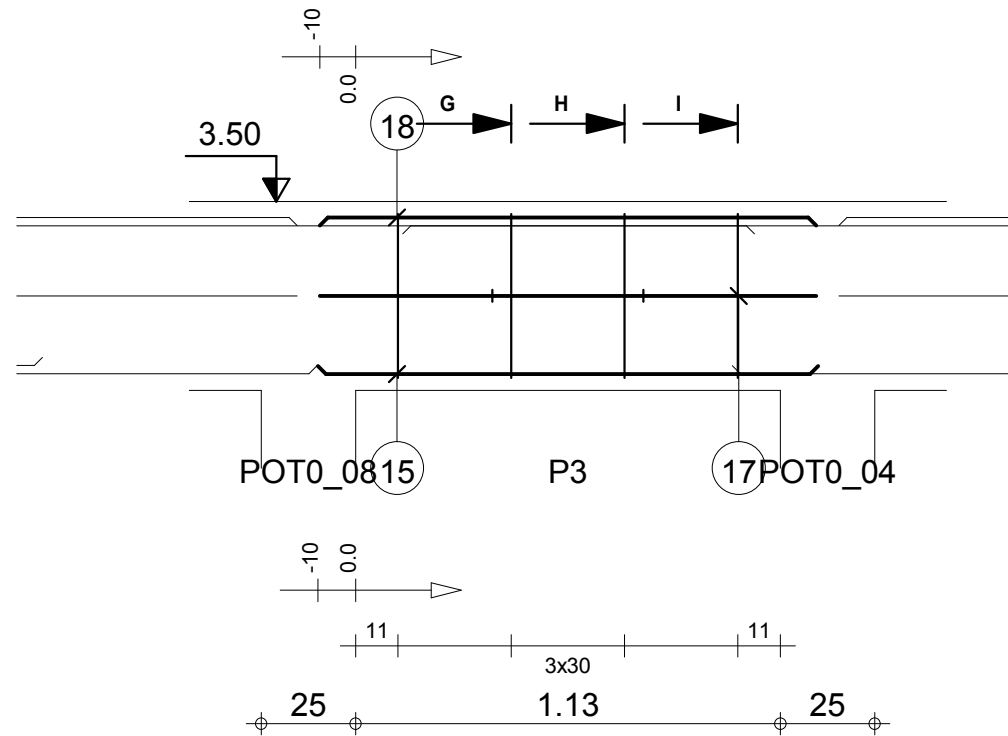
Acier HA 400 = 8.94 kg

Acier HA 400 = 27.7 kg

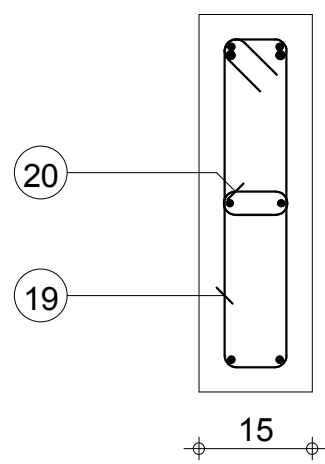
0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|---------|-------|
| 15 | 2HA 10 | l=1.33 | 1.33 |
| 17 | 2HA 10 | l=1.31 | 1.32 |
| 18 | 2HA 10 | l=1.31 | 1.32 |
| 19 | 4HA 6 | l=1.18* | |
| 20 | 2HA 6 | l=25 | |

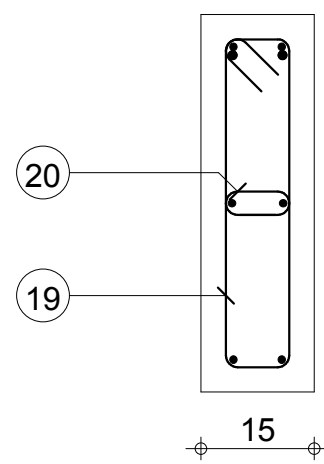


G-G



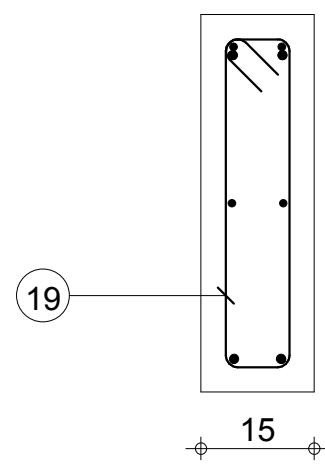
50

H-H



50

I-I



50

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU C.18: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.103 m3

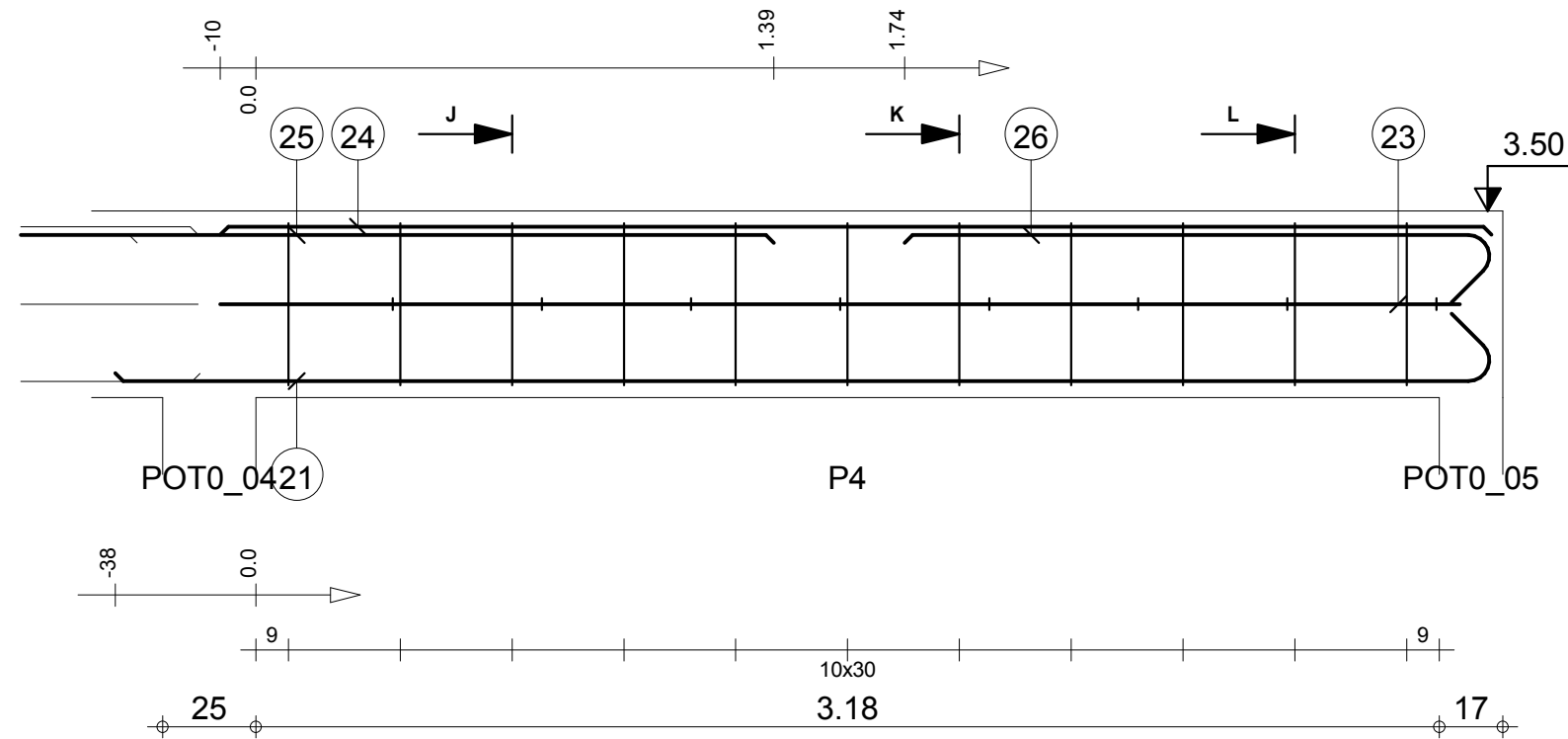
Acier HA 400 = 2.78 kg

Acier HA 400 = 3.26 kg

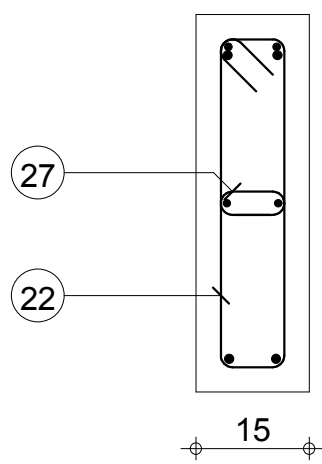
0

MINHDU_BAMBOUTOS_POUTRES

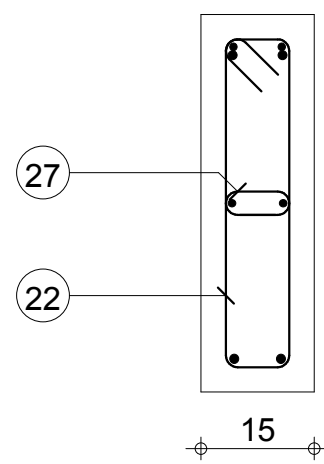
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 2HA 12 | l=3.88 | 00 | |
| 22 | 11HA 6 | l=1.18 | 31 | |
| 23 | 2HA 10 | l=3.33 | 00 | |
| 24 | 2HA 10 | l=3.41 | 00 | |
| 25 | 2HA 12 | l=2.64 | 00 | |
| 26 | 2HA 12 | l=1.76 | 00 | |
| 27 | 8HA 6 | l=25 | 00 | |



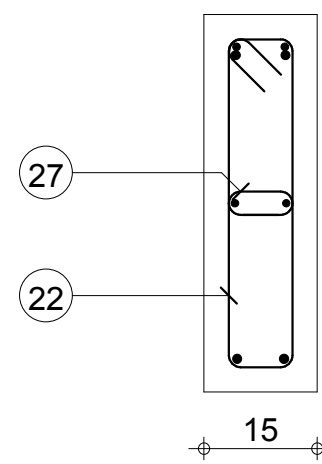
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU C.18: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

Béton : BETON20 = 0.26 m3

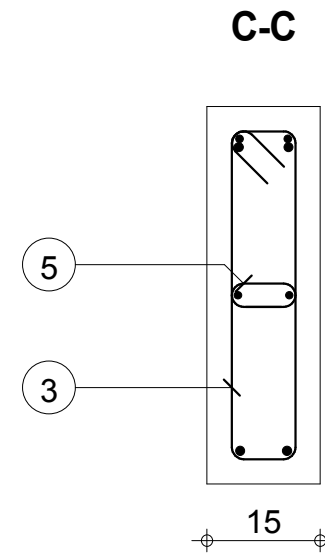
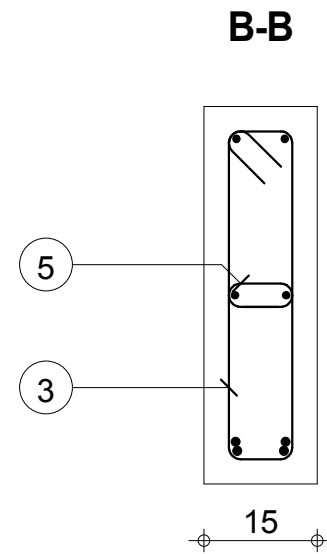
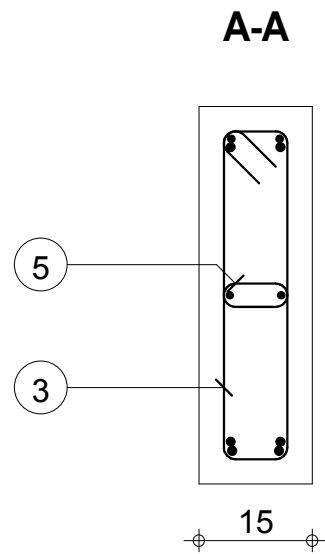
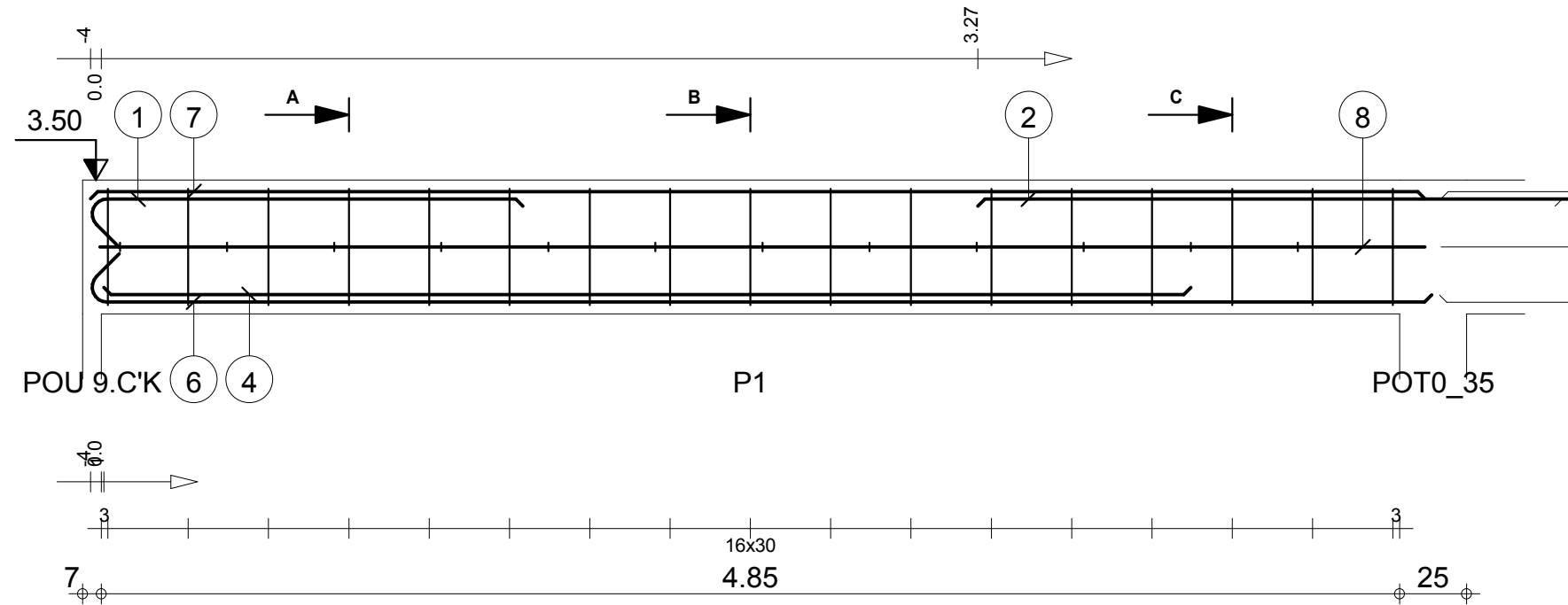
Acier HA 400 = 7.42 kg

Acier HA 400 = 18.9 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ① | 2HA 12 | l=1.80 | 00 | |
| ② | 2HA 12 | l=3.04 | 00 | |
| ③ | 17HA 6 | l=1.18 | 31 | |
| ④ | 2HA 12 | l=4.06 | 00 | |
| ⑤ | 12HA 6 | l=25 | 00 | |
| ⑥ | 2HA 12 | l=5.20 | 00 | |
| ⑦ | 2HA 10 | l=4.99 | 00 | |
| ⑧ | 2HA 10 | l=4.95 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU D.19: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/5

Béton : BETON20 = 0.378 m3

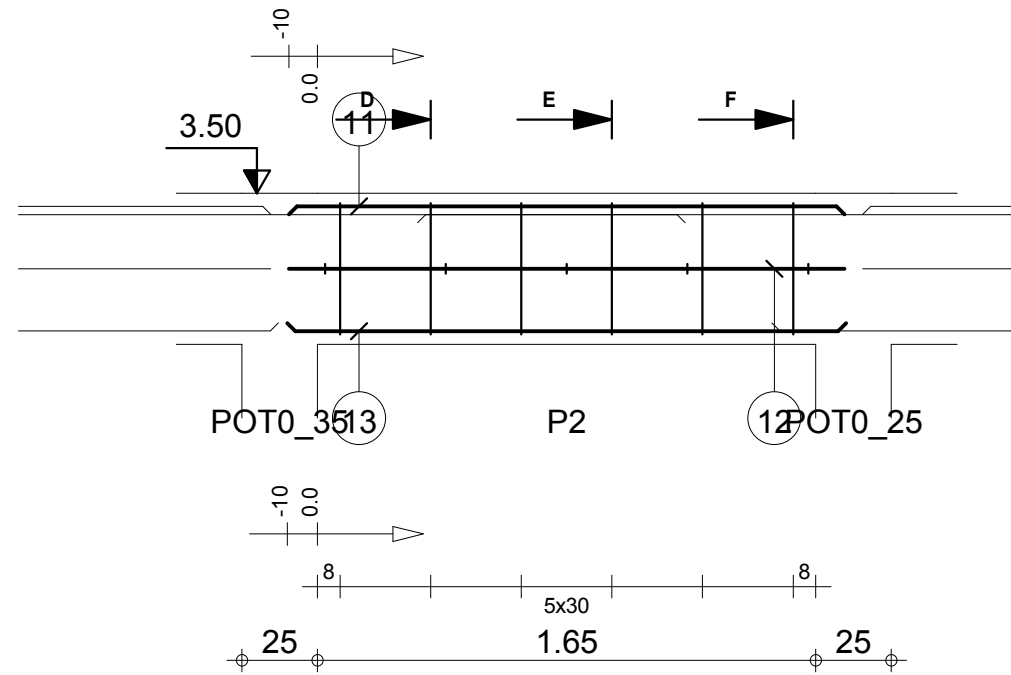
Acier HA 400 = 11.2 kg

Acier HA 400 = 31.2 kg

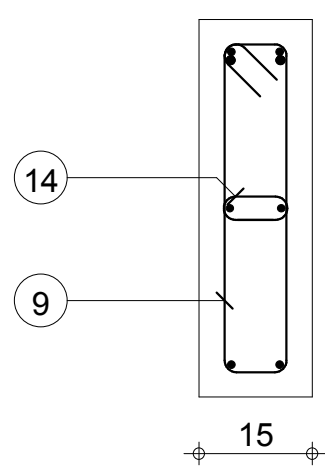
0

MINHDU_BAMBOUTOS_POUTRES

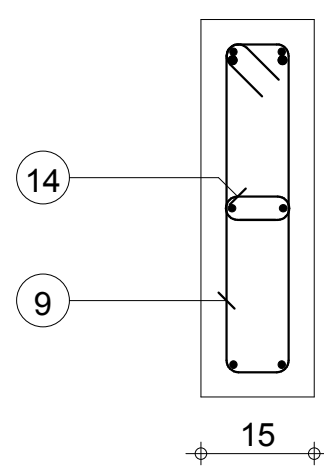
| Pos. | Armature | | Code | Forme |
|------|----------|---------|------|-------|
| 9 | 6HA 6 | l=1.18* | 31 | |
| 11 | 2HA 10 | l=1.84 | 00 | |
| 12 | 2HA 10 | l=1.84 | 00 | |
| 13 | 2HA 10 | l=1.85 | 00 | |
| 14 | 5HA 6 | l=25 | 00 | |



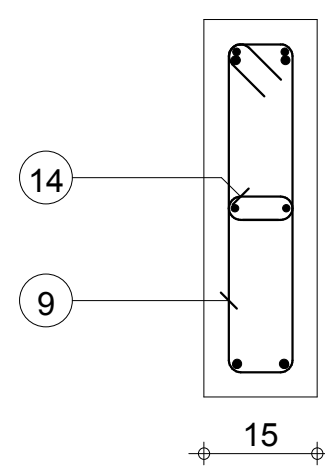
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU D.19: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5

Béton : BETON20 = 0.142 m3

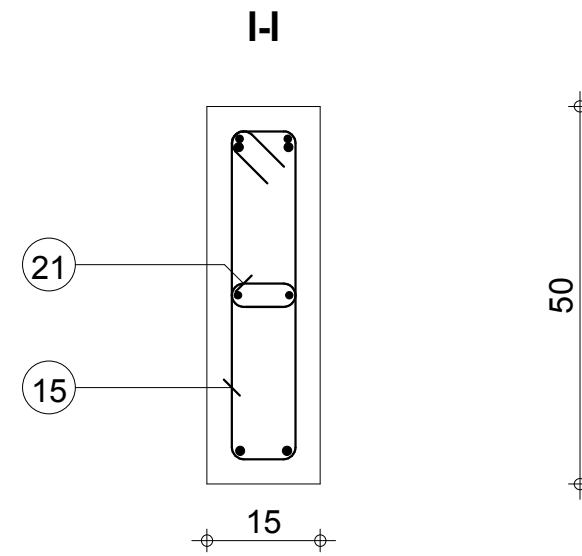
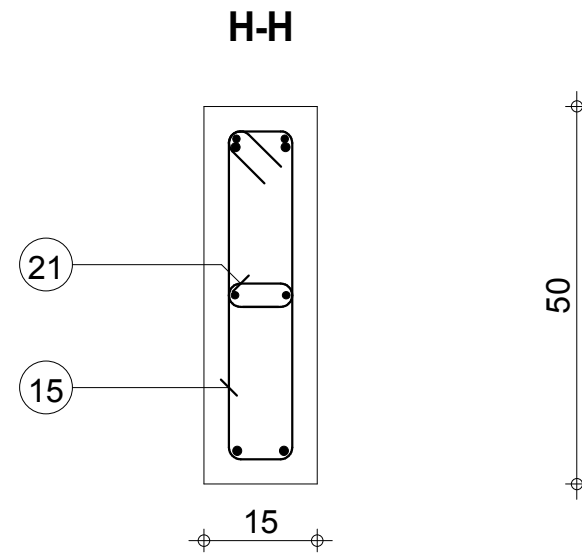
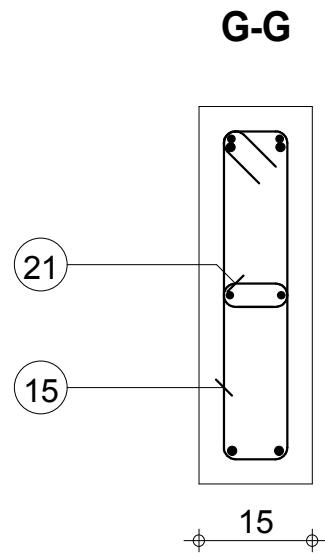
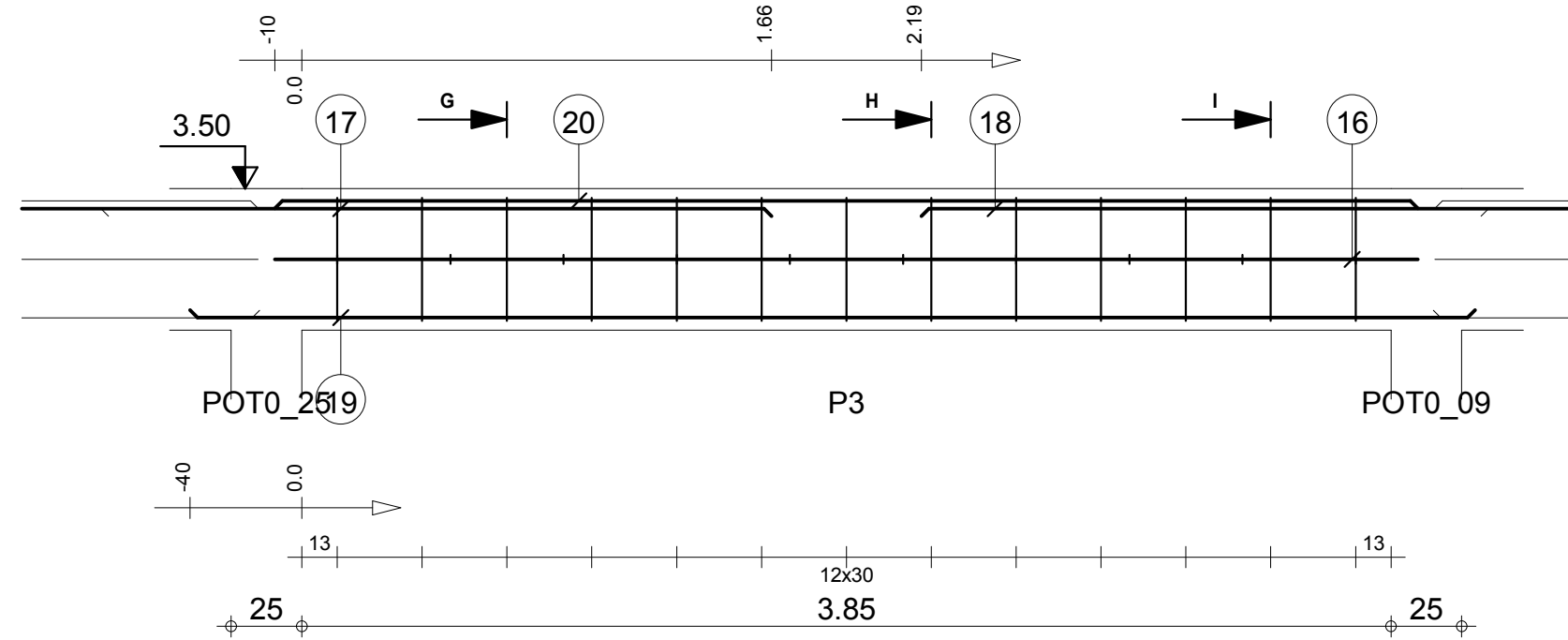
Acier HA 400 = 4.11 kg

Acier HA 400 = 4.55 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 13HA 6 | l=1.18 | 31 | |
| 16 | 2HA 10 | l=4.04 | 00 | |
| 17 | 2HA 12 | l=3.23 | 00 | |
| 18 | 2HA 12 | l=2.88 | 00 | |
| 19 | 2HA 12 | l=4.54 | 00 | |
| 20 | 2HA 10 | l=4.04 | 00 | |
| 21 | 10HA 6 | l=25 | 00 | |



Tél.
Fax

Echelle pour la vue 1:25
Echelle pour la section 1:10

POU D.19: P3
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

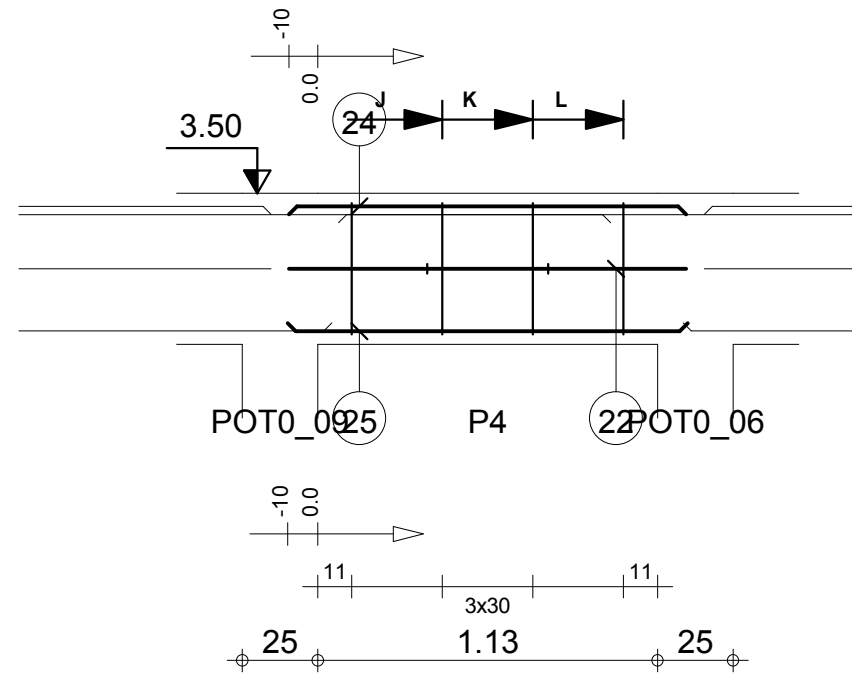
Page 3/5

Béton : BETON20 = 0.308 m3
Acier HA 400 = 8.94 kg
Acier HA 400 = 23.9 kg

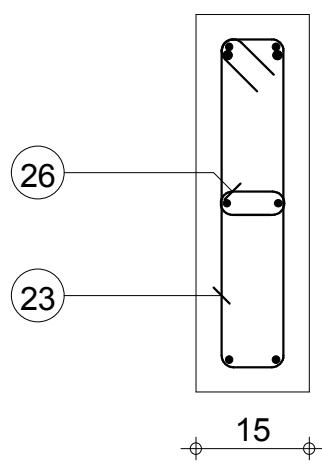
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MINHDU_BAMBOUTOS_POUTRES

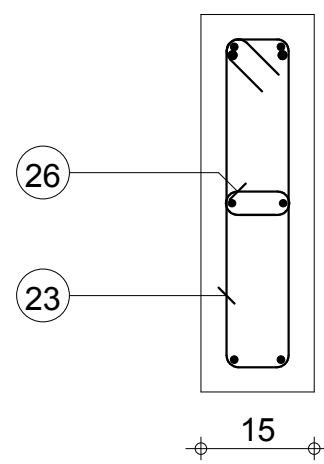
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 22 | 2HA 10 | l=1.31 | 00 | 1.32 |
| 23 | 4HA 6 | l=1.17 | 31 | |
| 24 | 2HA 10 | l=1.31 | 00 | 1.32 |
| 25 | 2HA 10 | l=1.33 | 00 | 1.33 |
| 26 | 2HA 6 | l=25 | 00 | |



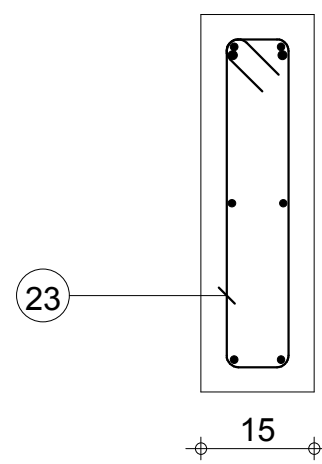
J-J



K-K



L-L



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU D.19: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/5

Béton : BETON20 = 0.103 m3

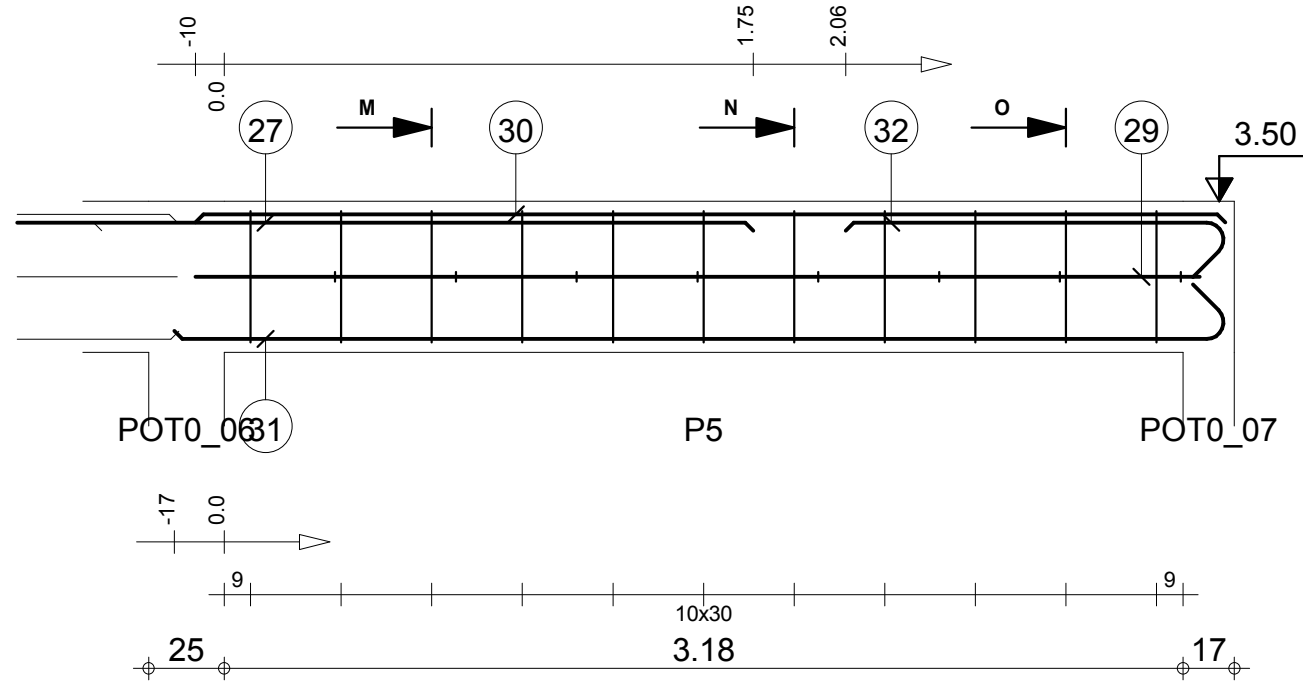
Acier HA 400 = 2.78 kg

Acier HA 400 = 3.26 kg

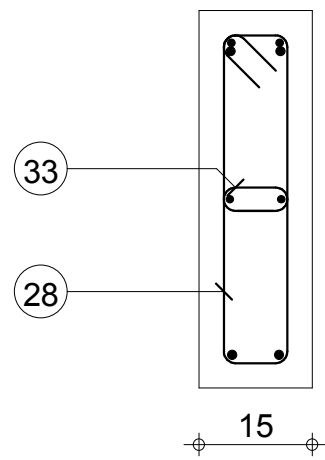
0

MINHDU_BAMBOUTOS_POUTRES

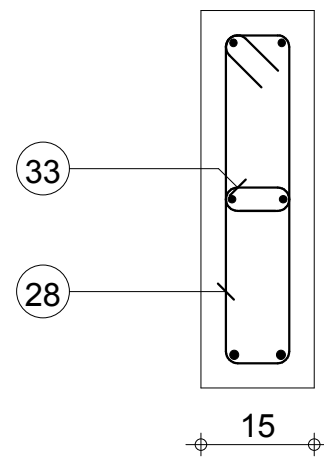
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 27 | 2HA 12 | l=3.06 | 00 | 3.06 |
| 28 | 11HA 6 | l=1.18 | 31 | |
| 29 | 2HA 10 | l=3.33 | 00 | 3.33 |
| 30 | 2HA 10 | l=3.41 | 00 | 3.41 |
| 31 | 2HA 12 | l=3.67 | 00 | 3.48 |
| 32 | 2HA 12 | l=1.45 | 00 | 1.26 |
| 33 | 8HA 6 | l=25 | 00 | |



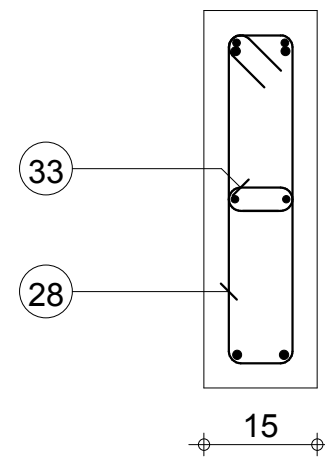
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU D.19: P5

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.26 m3

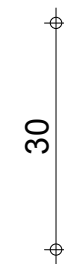
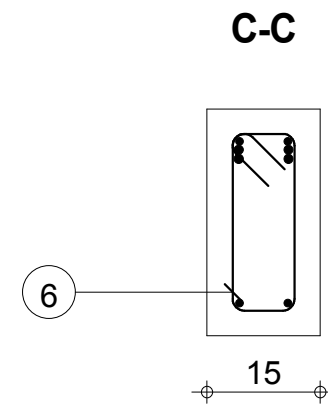
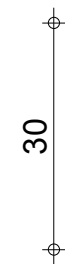
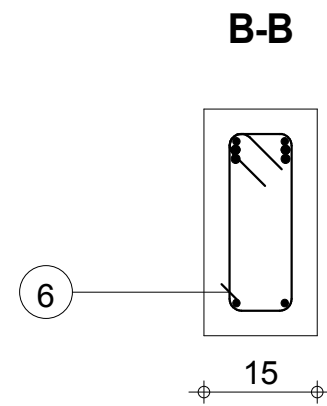
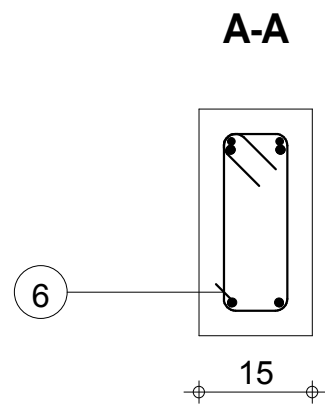
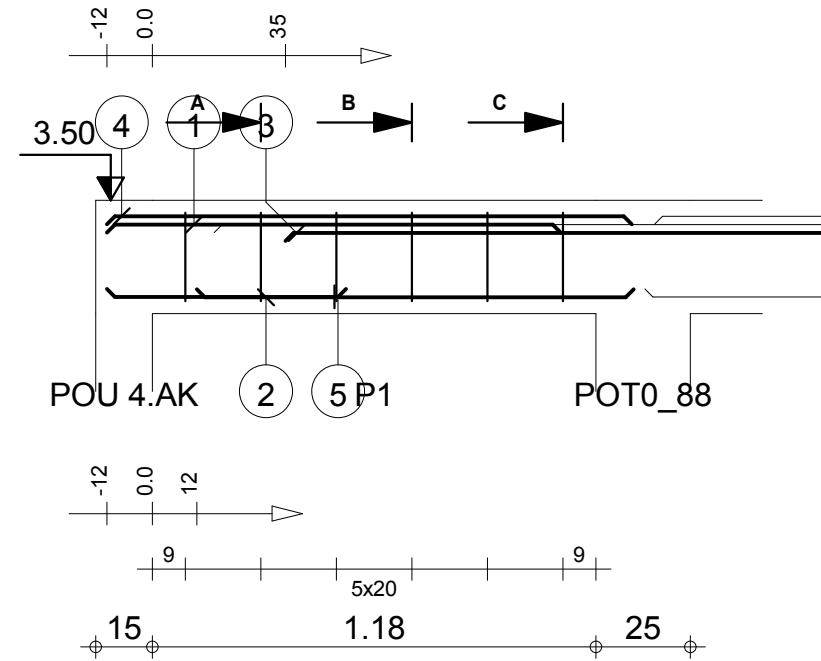
Acier HA 400 = 7.42 kg

Acier HA 400 = 18.7 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=1.20 | 00 |
| ② | 2HA 10 | l=1.16 | 00 |
| ③ | 2HA 12 | l=1.76 | 00 |
| ④ | 2HA 10 | l=1.39 | 00 |
| ⑤ | 2HA 12 | l=63 | 00 |
| ⑥ | 6HA 6 | l=78* | 31 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU E.14: P1
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

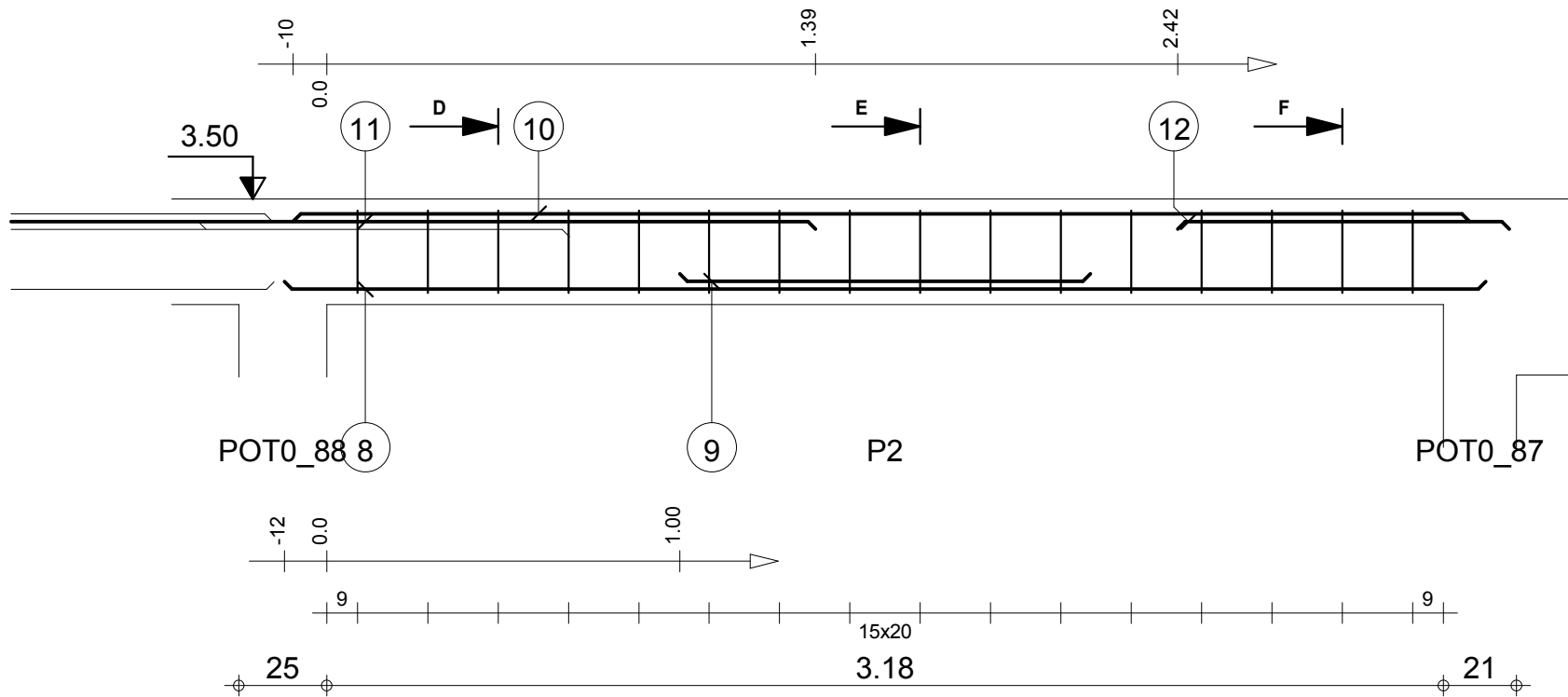
Page 1/3

Béton : BETON20 = 0.0652 m³
Acier HA 400 = 1.03 kg
Acier HA 400 = 9.53 kg

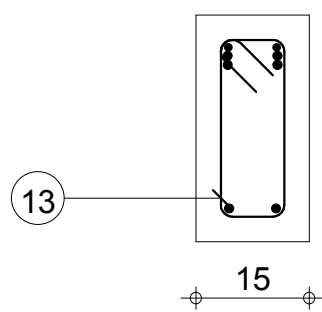
0

MINHDU_BAMBOUTOS_POUTRES

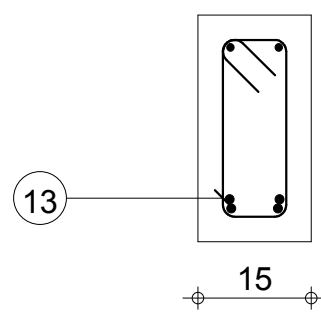
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| 8 | 2HA 12 | l=3.42 | 00 |
| 9 | 2HA 12 | l=1.17 | 00 |
| 10 | 2HA 10 | l=3.34 | 00 |
| 11 | 2HA 12 | l=2.65 | 00 |
| 12 | 2HA 12 | l=94 | 00 |
| 13 | 16HA 6 | l=78 | 31 |



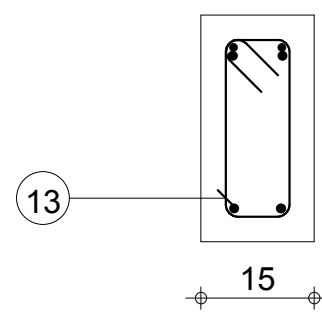
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU E.14: P2

Section 15x30

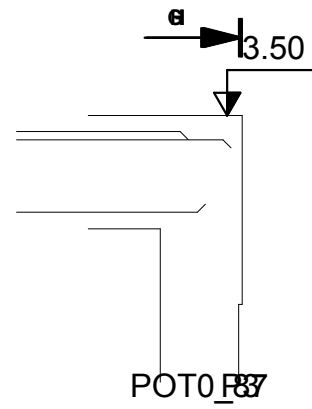
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/3

Béton : BETON20 = 0.159 m3

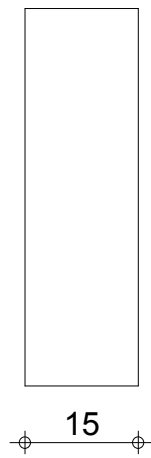
Acier HA 400 = 2.76 kg

Acier HA 400 = 18.6 kg



21

G-G



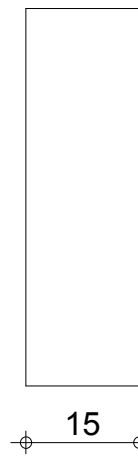
50

H-H



50

I-I



50

Tél.

Fax

Echelle pour la vue 1:20

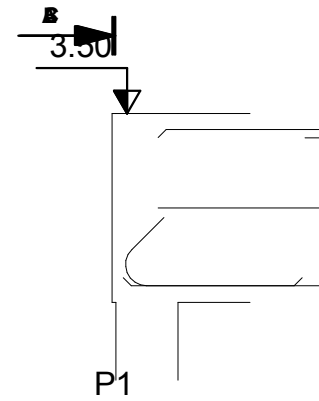
Echelle pour la section 1:10

POU E.14: P3

Section 15x50

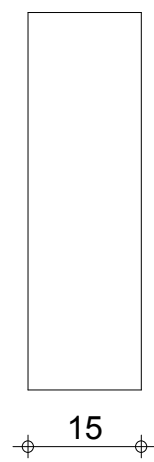
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.0116 m3



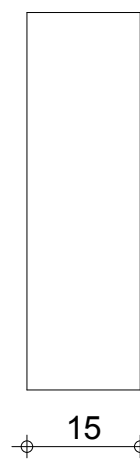
1 17

A-A



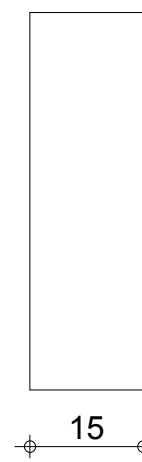
50

B-B



50

C-C



50

Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU G.1014: P1

Section 15x50

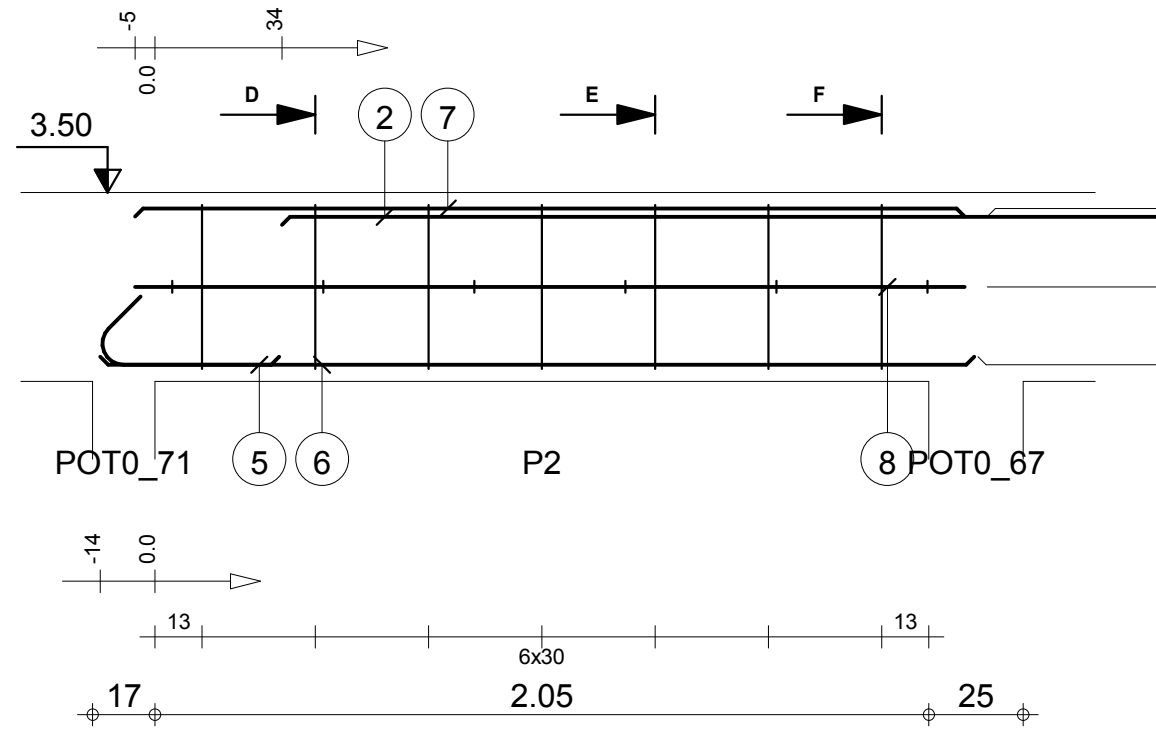
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

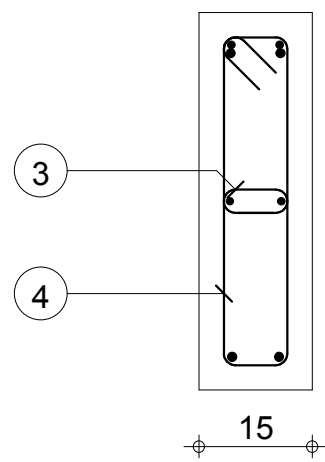
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MINHDU_BAMBOUTOS_POUTRES

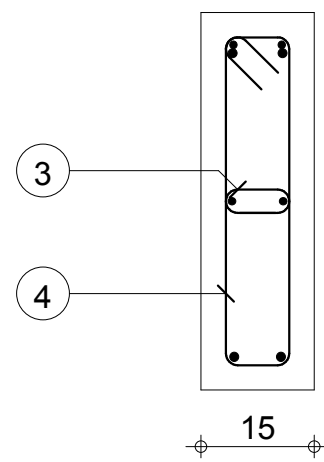
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| ② | 2HA 12 | l=3.41 | 00 | |
| ③ | 6HA 6 | l=25 | 00 | |
| ④ | 7HA 6 | l=1.18 | 31 | |
| ⑤ | 2HA 12 | l=66 | 00 | |
| ⑥ | 2HA 12 | l=2.31 | 00 | |
| ⑦ | 2HA 10 | l=2.20 | 00 | |
| ⑧ | 2HA 10 | l=2.20 | 00 | |



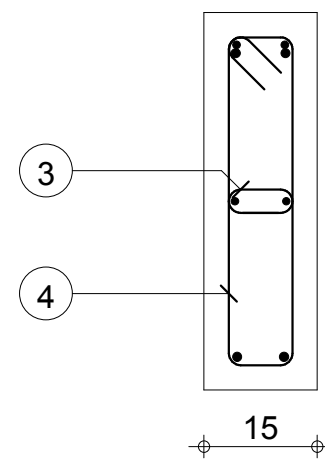
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU G.1014: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/5






Béton : BETON20 = 0.169 m3

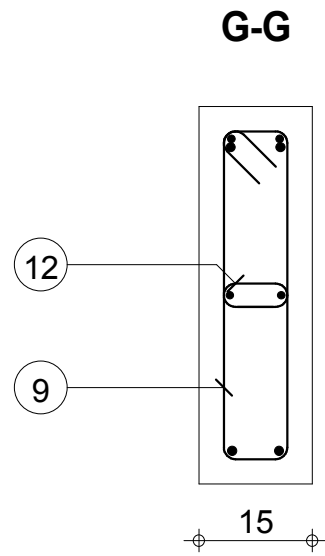
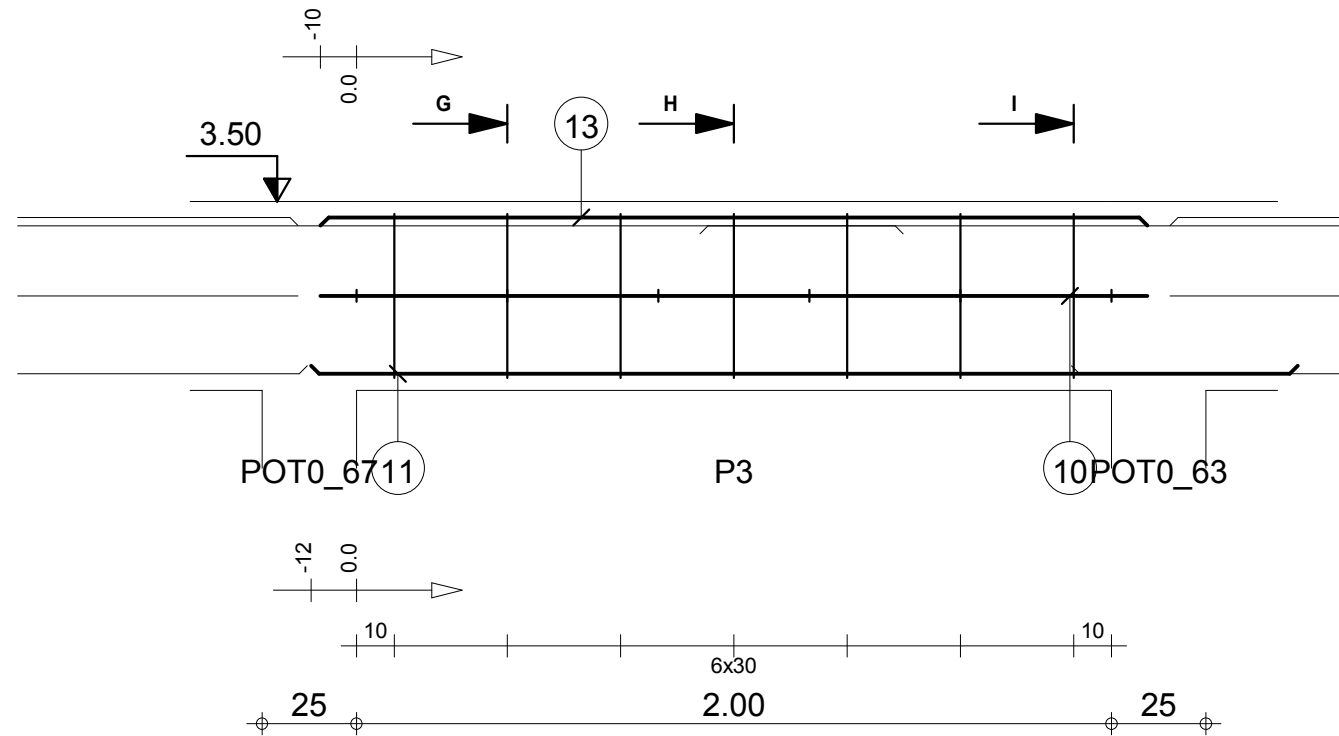
Acier HA 400 = 4.87 kg

Acier HA 400 = 14.1 kg

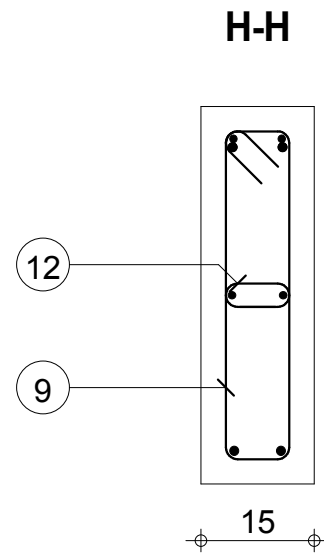
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MINHDU_BAMBOUTOS_POUTRES

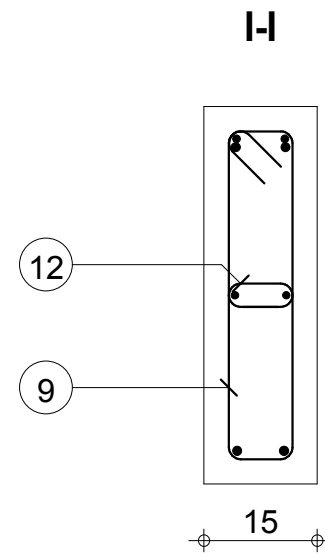
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| 9 | 7HA 6 | l=1.18 | 31 |  |
| 10 | 2HA 10 | l=2.19 | 00 |  |
| 11 | 2HA 12 | l=2.61 | 00 |  |
| 12 | 6HA 6 | l=25 | 00 |  |
| 13 | 2HA 10 | l=2.19 | 00 |  |



50



50



50

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU G.1014: P3
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

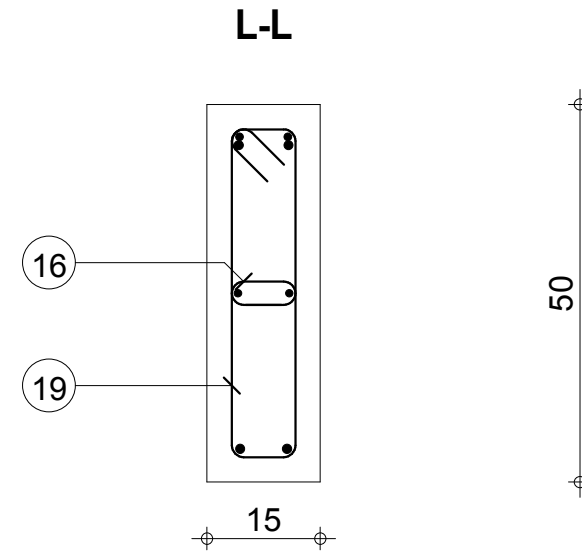
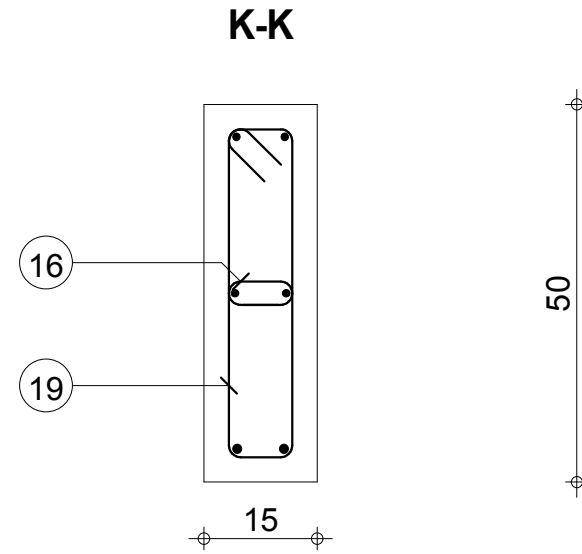
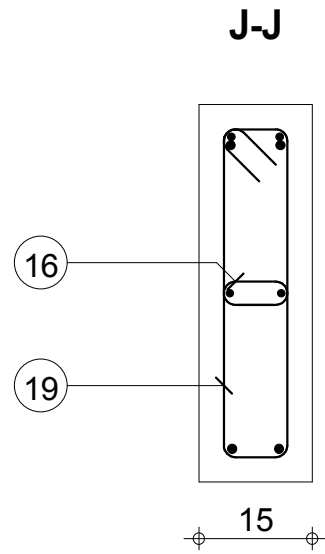
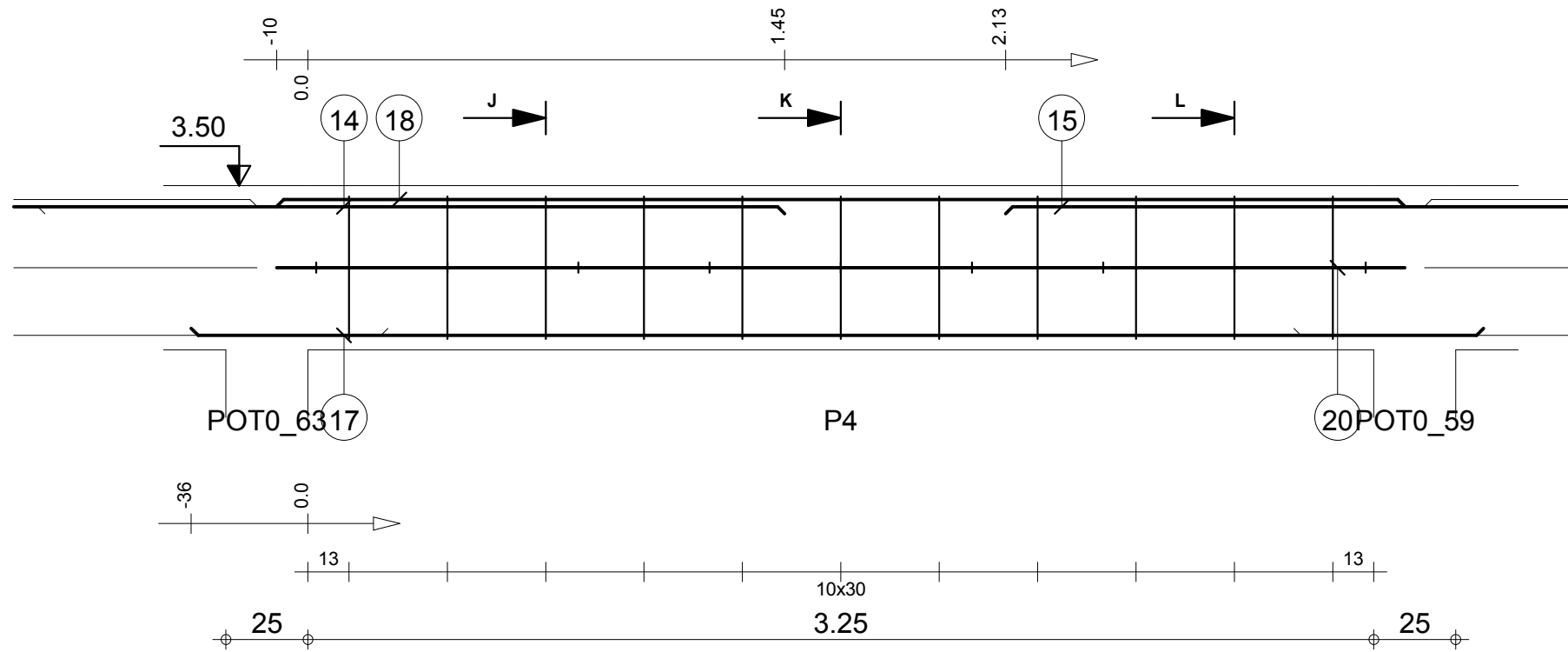
Page 3/5

Béton : BETON20 = 0.169 m3
Acier HA 400 = 4.86 kg
Acier HA 400 = 7.34 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 14 | 2HA 12 | l=2.79 | 00 | |
| 15 | 2HA 12 | l=2.27 | 00 | |
| 16 | 9HA 6 | l=25 | 00 | |
| 17 | 2HA 12 | l=3.94 | 00 | |
| 18 | 2HA 10 | l=3.44 | 00 | |
| 19 | 11HA 6 | l=1.18 | 31 | |
| 20 | 2HA 10 | l=3.44 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU G.1014: P4
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

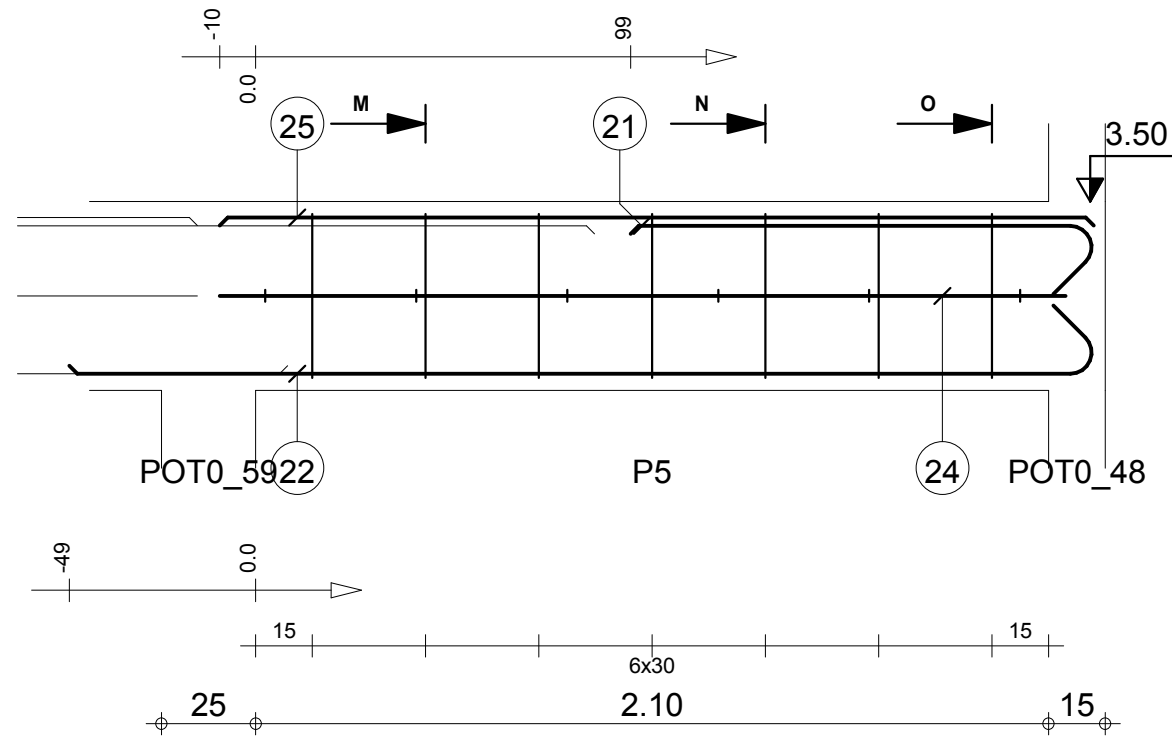
Page 4/5

Béton : BETON20 = 0.263 m3
Acier HA 400 = 7.62 kg
Acier HA 400 = 20.2 kg

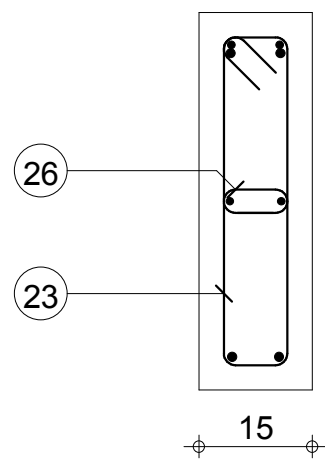
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MINHDU_BAMBOUTOS_POUTRES

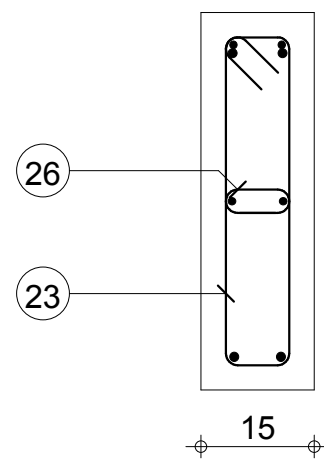
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 2HA 12 | l=1.42 | 00 | |
| 22 | 2HA 12 | l=2.90 | 00 | |
| 23 | 7HA 6 | l=1.18 | 31 | |
| 24 | 2HA 10 | l=2.24 | 00 | |
| 25 | 2HA 10 | l=2.31 | 00 | |
| 26 | 6HA 6 | l=25 | 00 | |



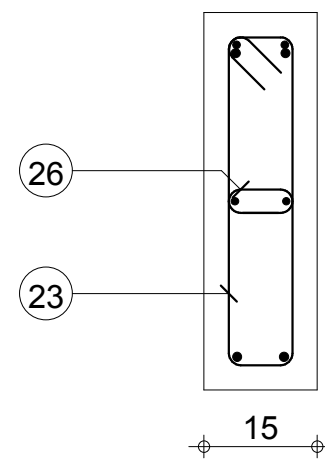
M-M



N-N



O-O



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU G.1014: P5

Section 15x50

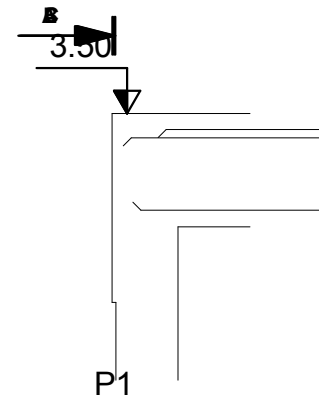
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 5/5

Béton : BETON20 = 0.178 m3

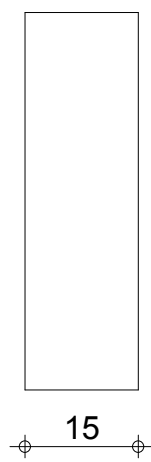
Acier HA 400 = 4.93 kg

Acier HA 400 = 10.5 kg

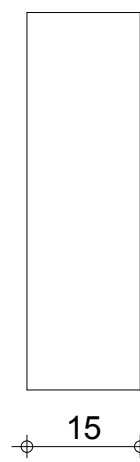


1 17

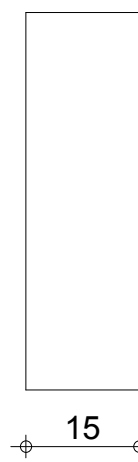
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU O.14: P1

Section 15x50

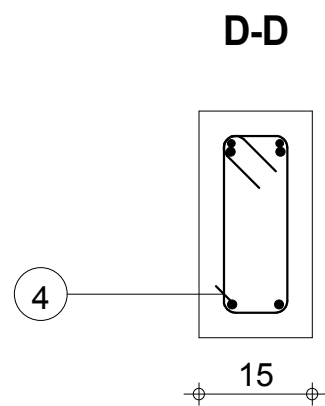
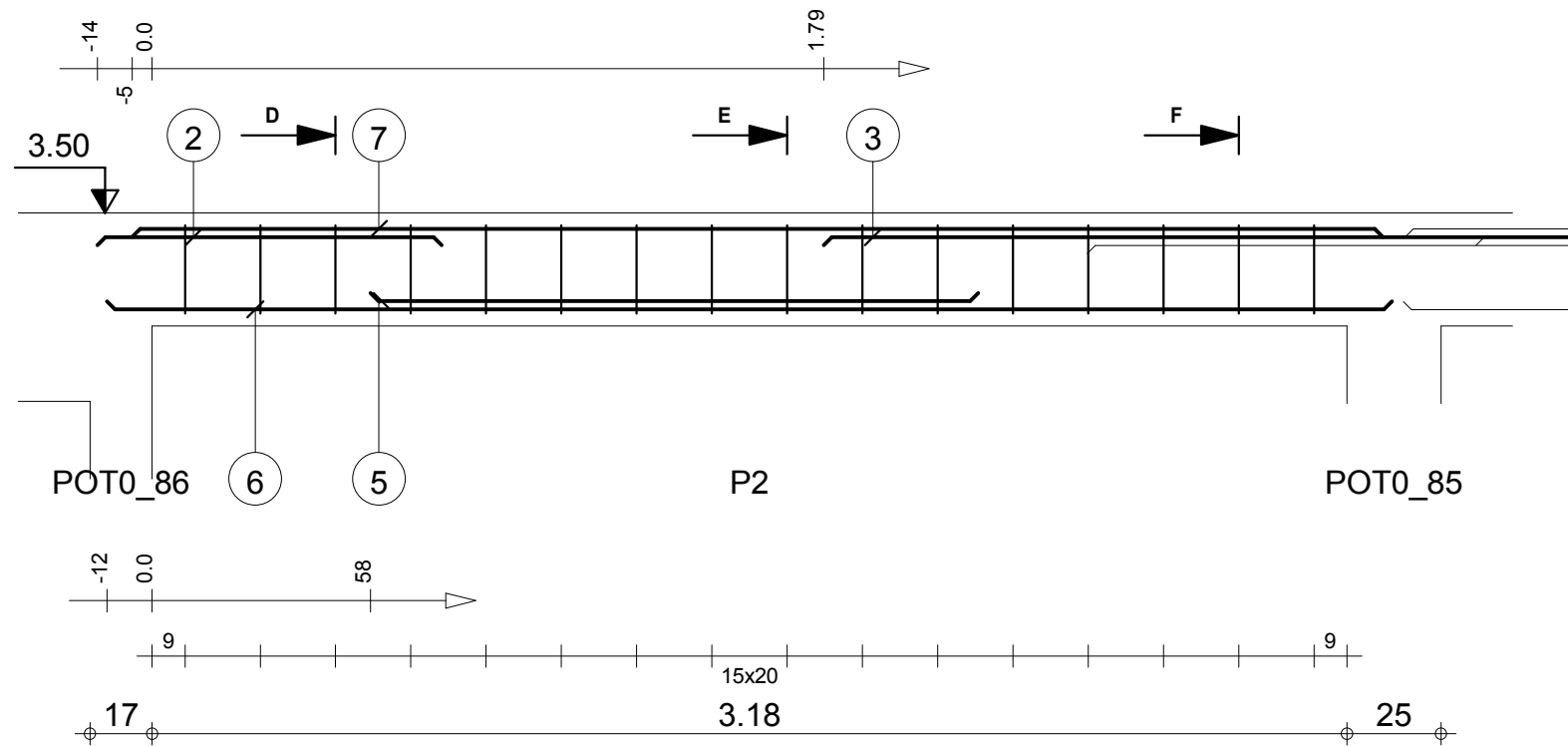
Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Béton : BETON20 = 0.00694 m3

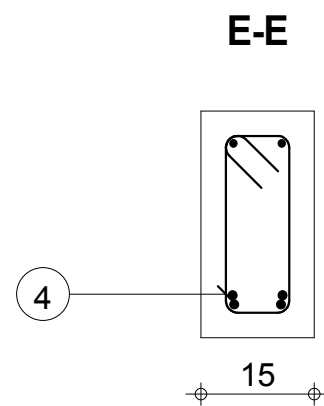
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MINHDU_BAMBOUTOS_POUTRES

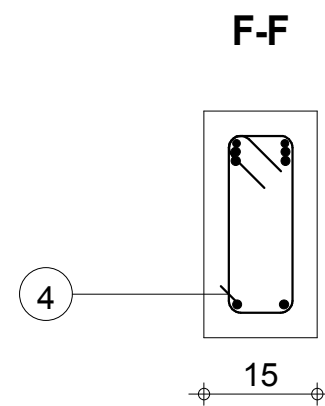
| Pos. | Armature | Code | Forme |
|------|----------|--------|--------------|
| ② | 2HA 12 | l=92 | 00 91 |
| ③ | 2HA 12 | l=2.61 | 00 2.61 |
| ④ | 16HA 6 | l=78 | 31 9 8 |
| ⑤ | 2HA 12 | l=1.62 | 00 1.62 |
| ⑥ | 2HA 12 | l=3.42 | 00 3.42 |
| ⑦ | 2HA 10 | l=3.32 | 00 3.32 |



30



30



30

Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU O.14: P2
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

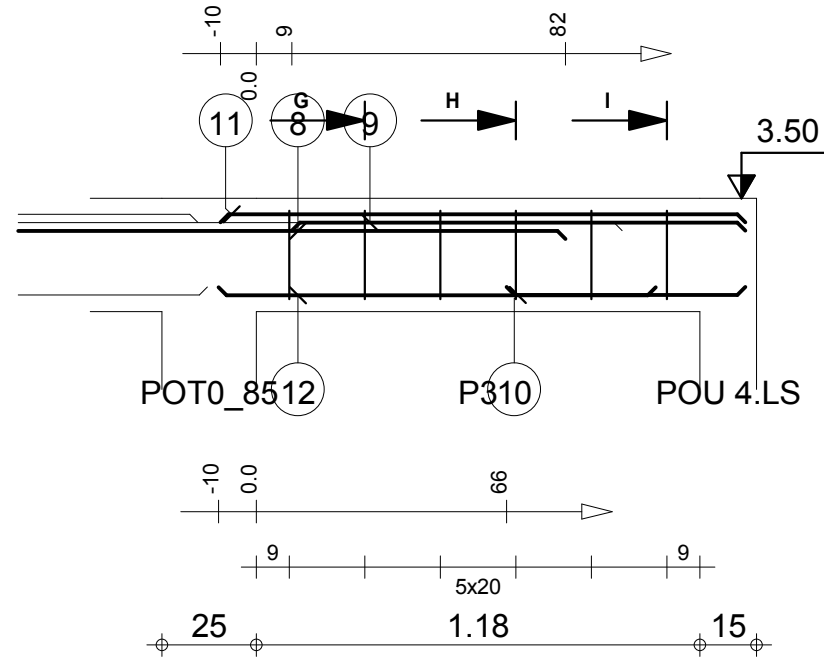
Page 2/3

Béton : BETON20 = 0.155 m3
Acier HA 400 = 2.76 kg
Acier HA 400 = 19.3 kg

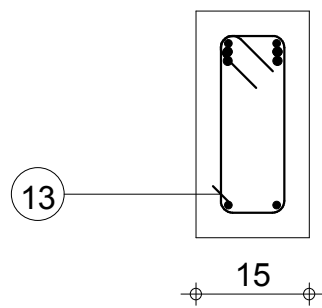
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MINHDU_BAMBOUTOS_POUTRES

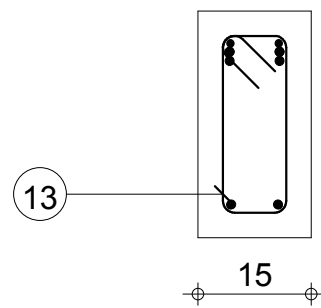
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 8 | 2HA 12 | l=1.76 | 00 | 1.76 |
| 9 | 2HA 12 | l=1.20 | 00 | 1.20 |
| 10 | 2HA 12 | l=63 | 00 | 63 |
| 11 | 2HA 10 | l=1.39 | 00 | 1.39 |
| 12 | 2HA 10 | l=1.16 | 00 | 1.16 |
| 13 | 6HA 6 | l=78* | 31 | |



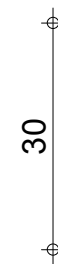
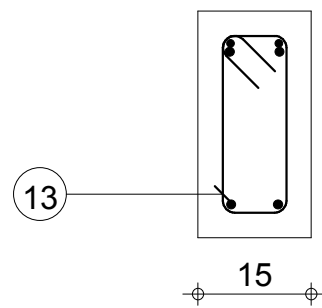
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU O.14: P3
Section 15x30

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

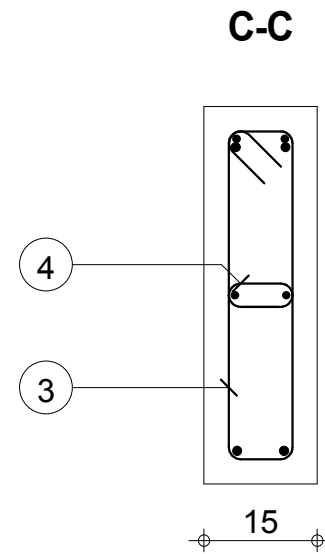
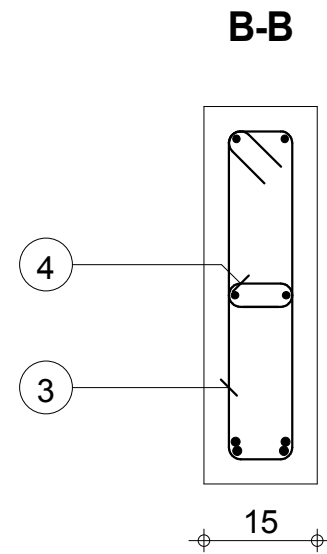
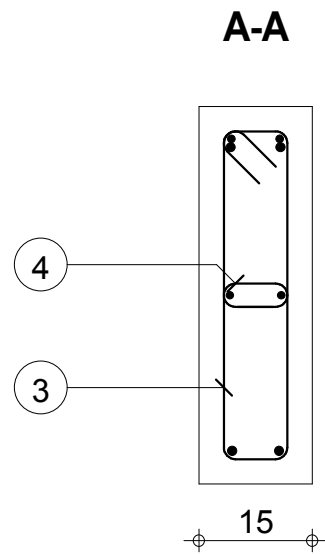
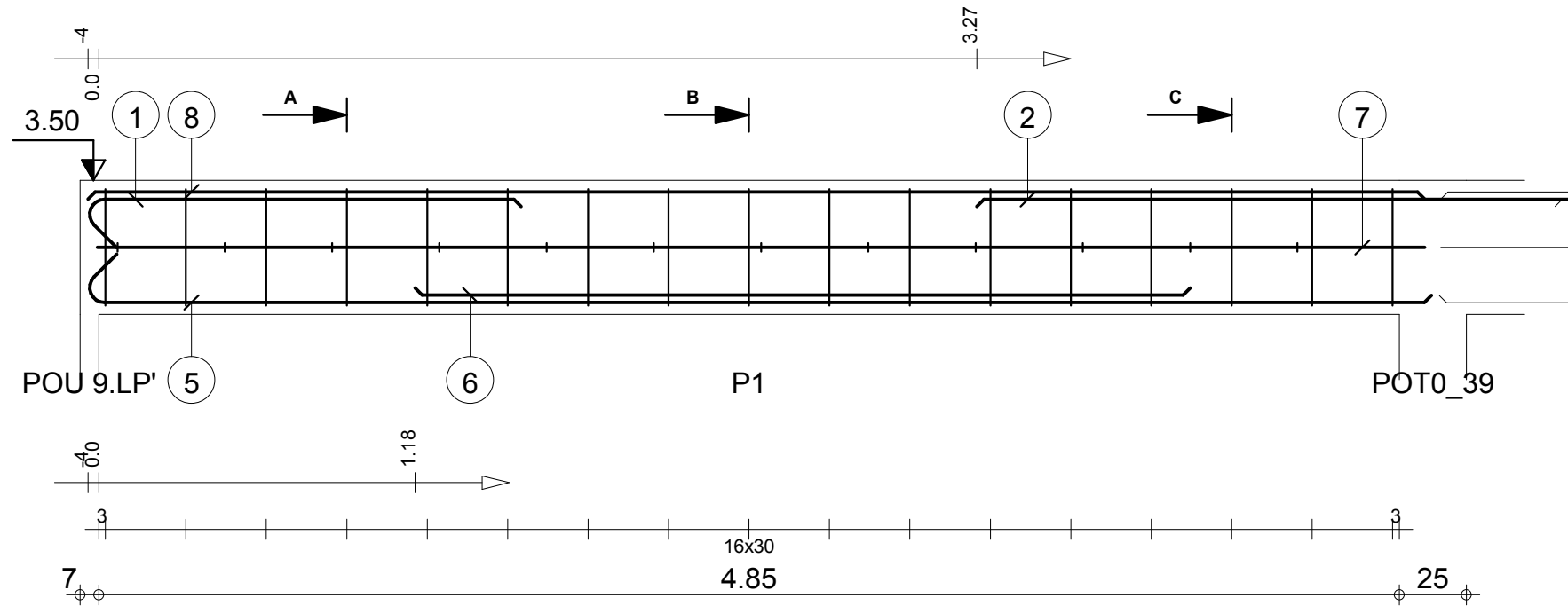
Page 3/3

Béton : BETON20 = 0.0652 m3
Acier HA 400 = 1.03 kg
Acier HA 400 = 9.52 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=1.80 | 00 |
| ② | 2HA 12 | l=3.09 | 00 |
| ③ | 17HA 6 | l=1.18 | 31 |
| ④ | 12HA 6 | l=25 | 00 |
| ⑤ | 2HA 12 | l=5.20 | 00 |
| ⑥ | 2HA 12 | l=2.89 | 00 |
| ⑦ | 2HA 10 | l=4.95 | 00 |
| ⑧ | 2HA 10 | l=4.99 | 00 |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU P.19: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.378 m3

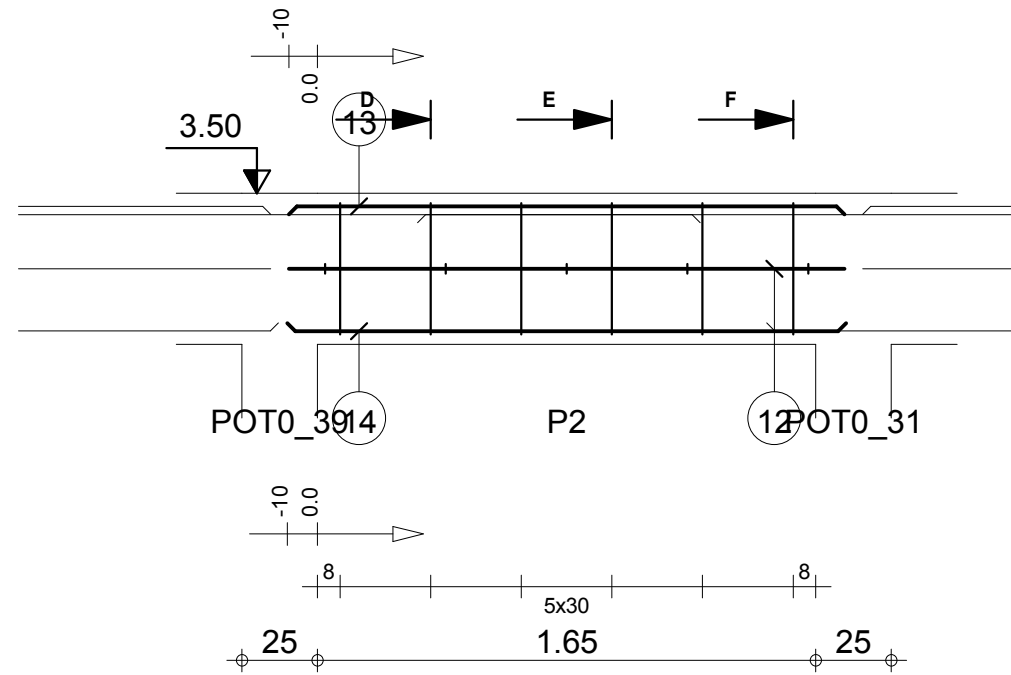
Acier HA 400 = 11.2 kg

Acier HA 400 = 29.2 kg

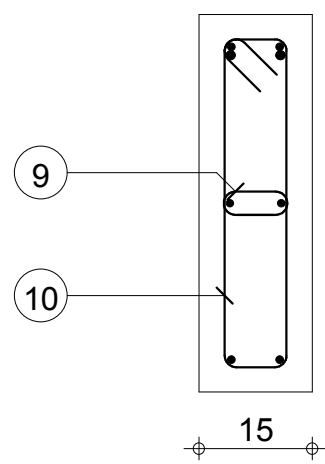
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MINHDU_BAMBOUTOS_POUTRES

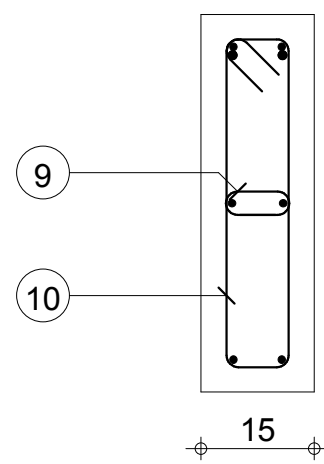
| Pos. | Armature | Code | Forme |
|------|----------|---------|-------|
| 9 | 5HA 6 | l=25 | |
| 10 | 6HA 6 | l=1.18* | |
| 12 | 2HA 10 | l=1.84 | |
| 13 | 2HA 10 | l=1.84 | |
| 14 | 2HA 10 | l=1.85 | |



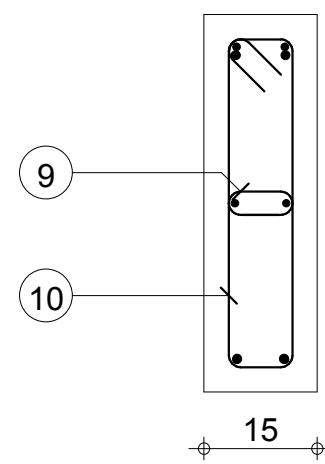
D-D



E-E



F-F



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU P.19: P2

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 2/4

Béton : BETON20 = 0.142 m3

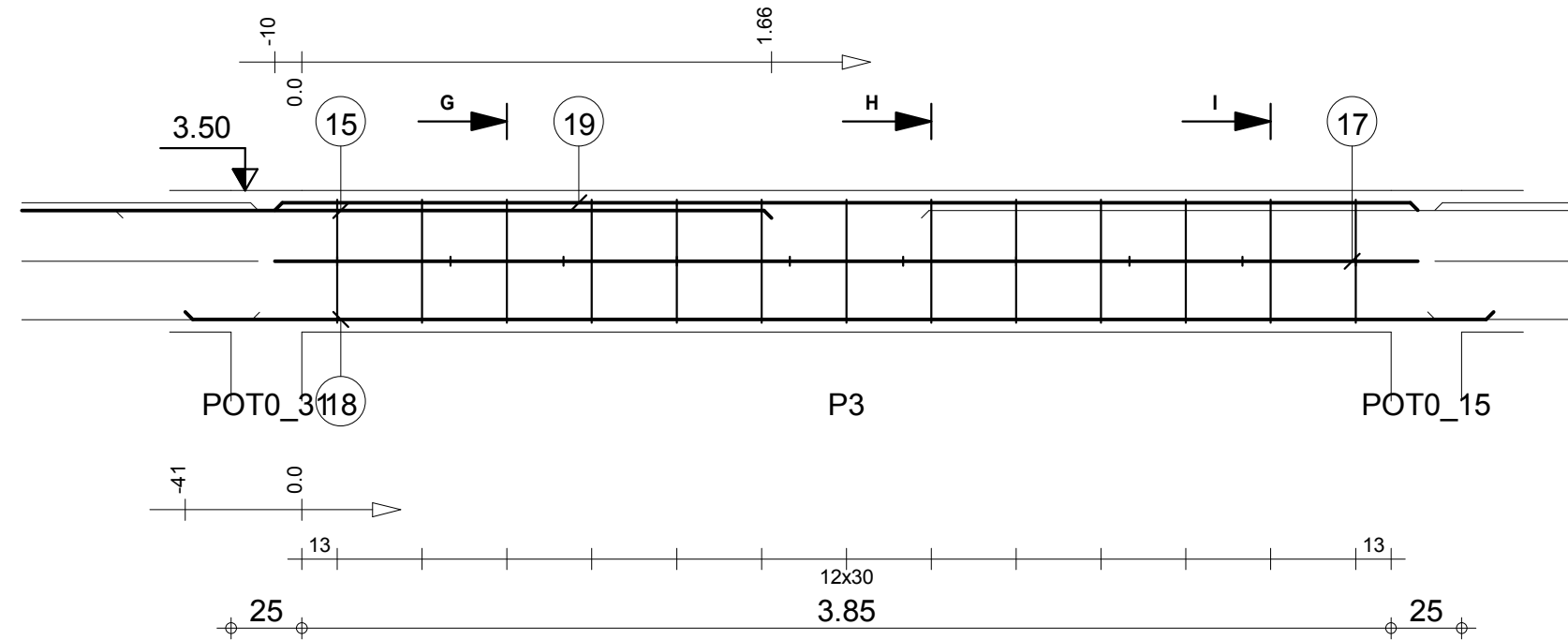
Acier HA 400 = 4.11 kg

Acier HA 400 = 4.55 kg

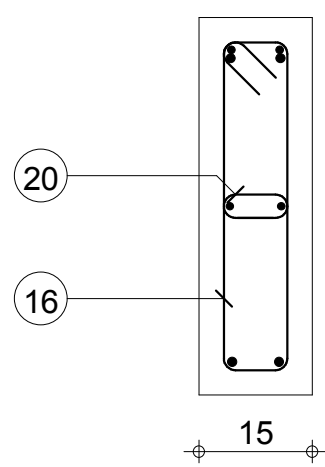
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MINHDU_BAMBOUTOS_POUTRES

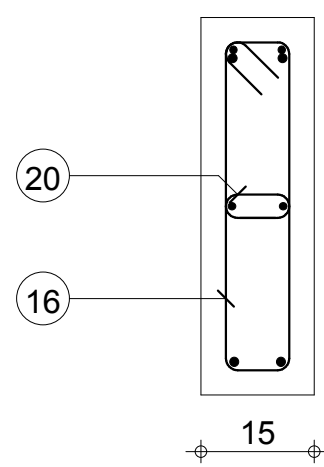
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 15 | 2HA 12 | l=3.23 | 00 | 3.23 |
| 16 | 13HA 6 | l=1.18 | 31 | |
| 17 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 18 | 2HA 12 | l=4.63 | 00 | 4.62 |
| 19 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 20 | 10HA 6 | l=25 | 00 | |



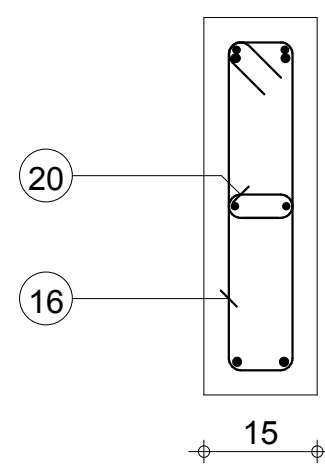
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU P.19: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.308 m3

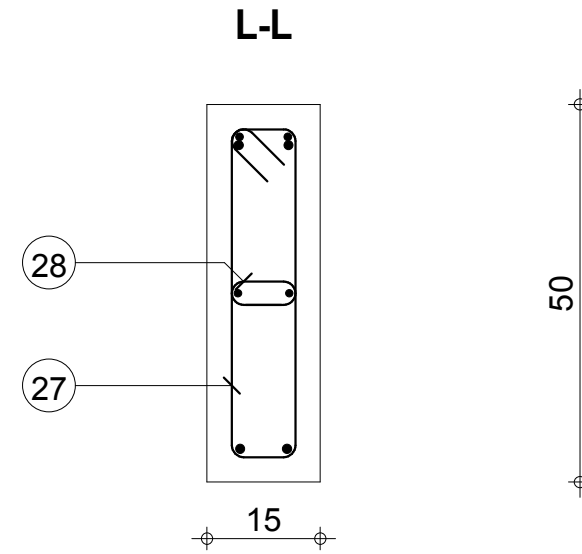
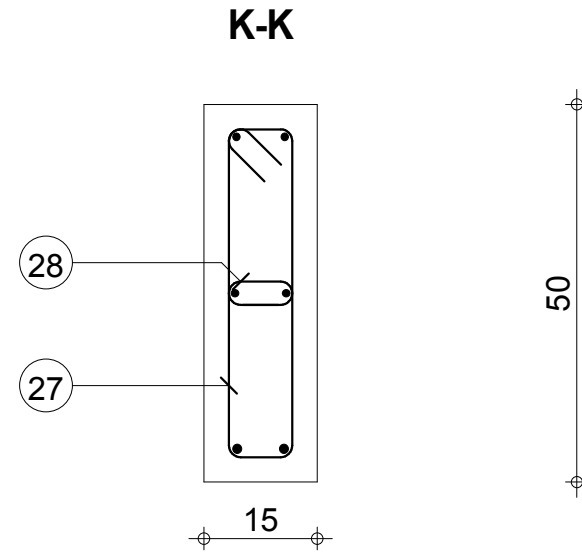
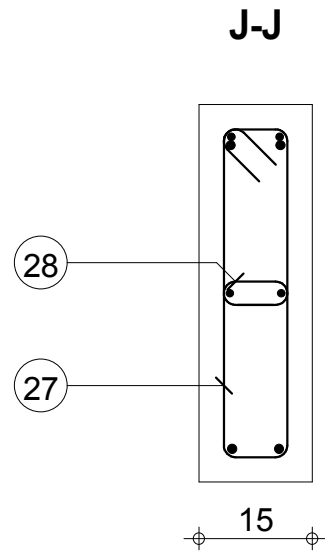
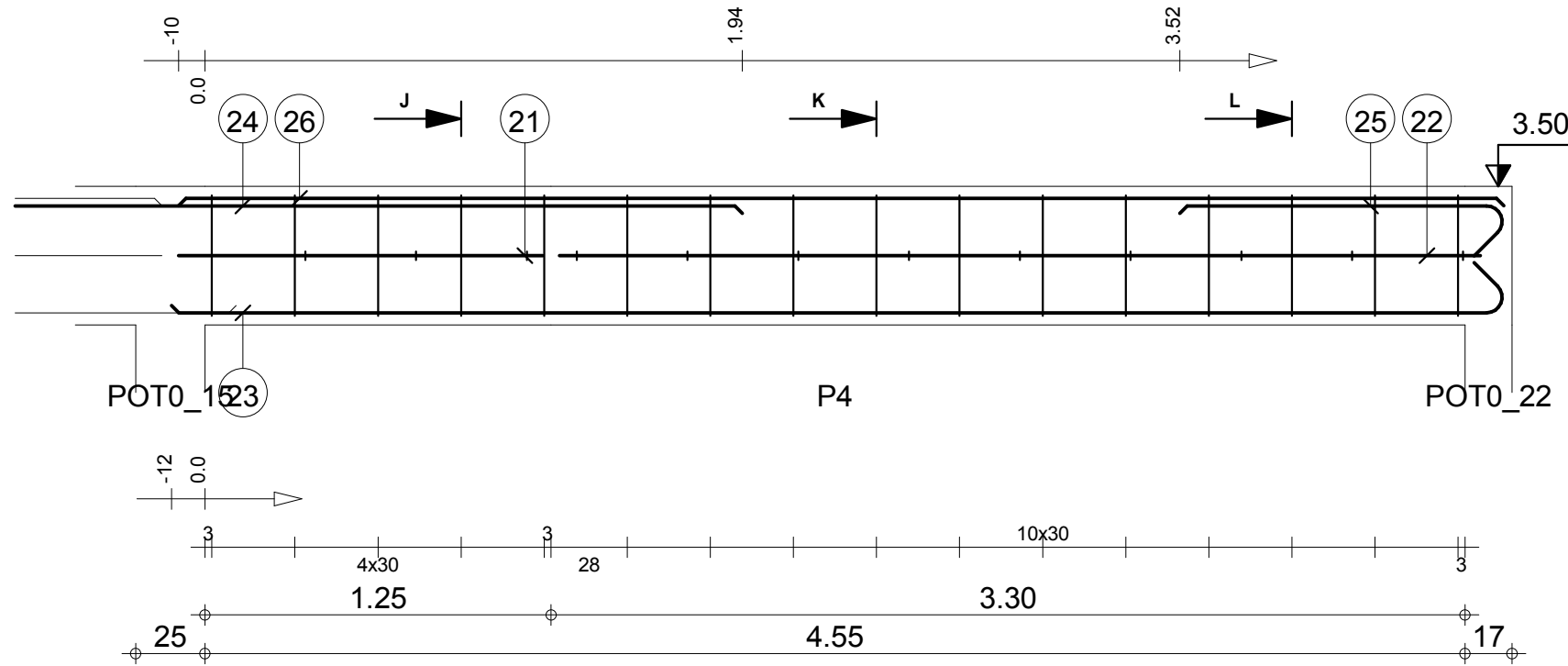
Acier HA 400 = 8.94 kg

Acier HA 400 = 18.9 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 2HA 10 | l=1.31 | 00 | 1.32 |
| 22 | 2HA 10 | l=3.33 | 00 | 3.33 |
| 23 | 2HA 12 | l=5.00 | 00 | 4.81 |
| 24 | 2HA 12 | l=3.85 | 00 | 3.85 |
| 25 | 2HA 12 | l=1.36 | 00 | 1.17 |
| 26 | 2HA 10 | l=4.79 | 00 | 4.79 |
| 27 | 2*8HA 6 | l=1.18 | 31 | |
| 28 | 2*6HA 6 | l=25 | 00 | |



Tél.

Fax

Echelle pour la vue 1:25

Echelle pour la section 1:10

POU P.19: P4

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4


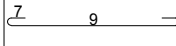
Béton : BETON20 = 0.363 m3

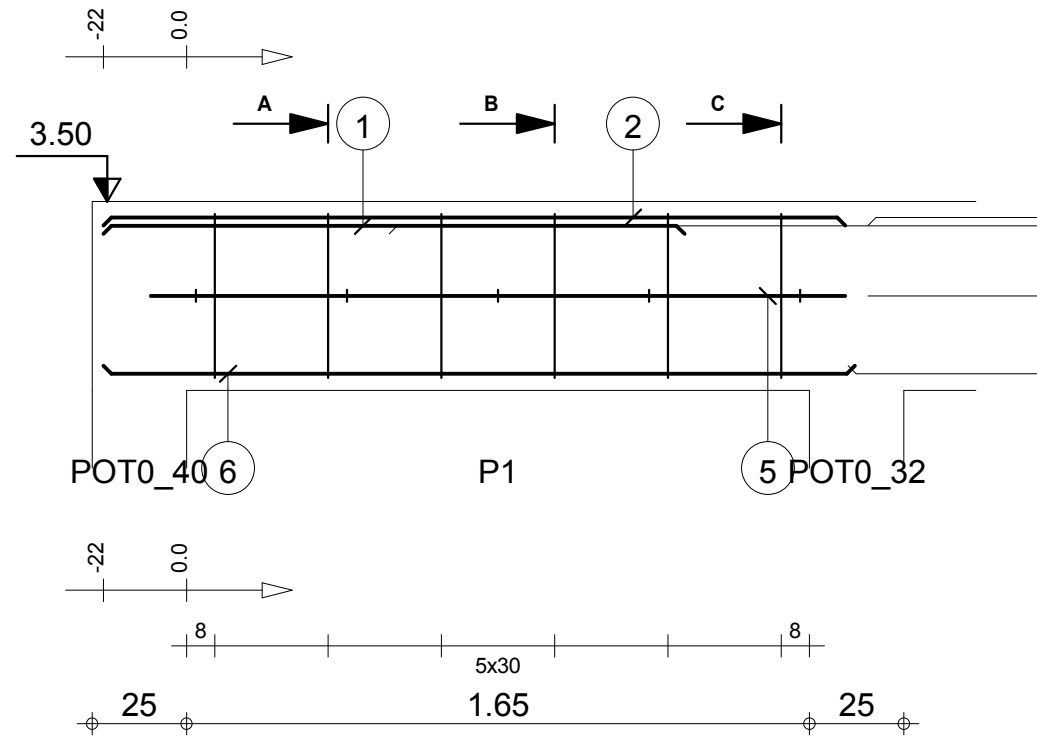
Acier HA 400 = 10.6 kg

Acier HA 400 = 24 kg

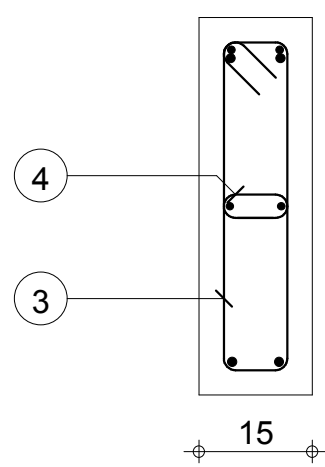
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MINHDU_BAMBOUTOS_POUTRES

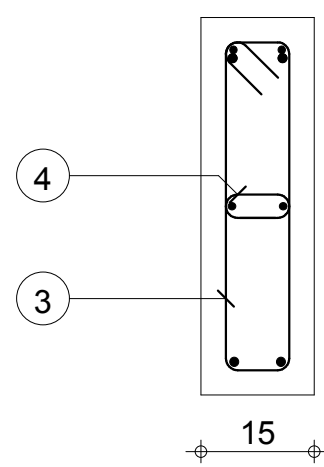
| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|---|
| ① | 2HA 12 | l=1.54 | 00 | 1.54 |
| ② | 2HA 10 | l=1.97 | 00 | 1.97 |
| ③ | 6HA 6 | l=1.18 | 31 |  |
| ④ | 5HA 6 | l=25 | 00 |  |
| ⑤ | 2HA 10 | l=1.84 | 00 | 1.84 |
| ⑥ | 2HA 12 | l=1.99 | 00 | 1.99 |



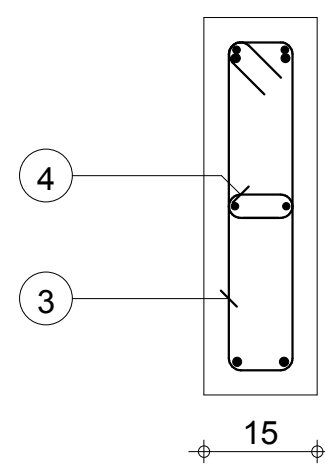
A-A



B-B



C-C



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU Q.18: P1

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 1/4

Béton : BETON20 = 0.152 m3

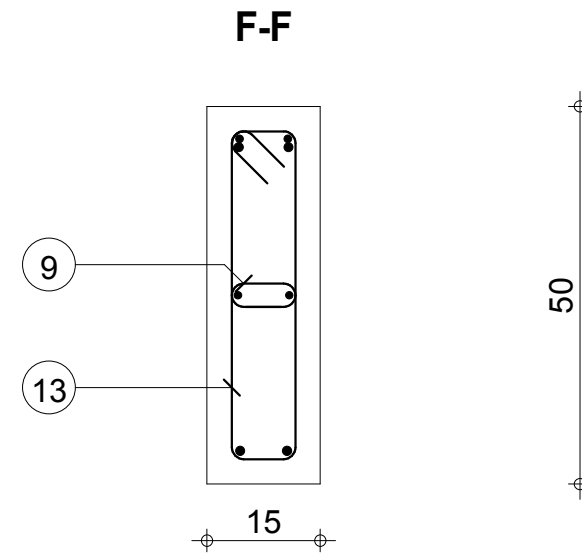
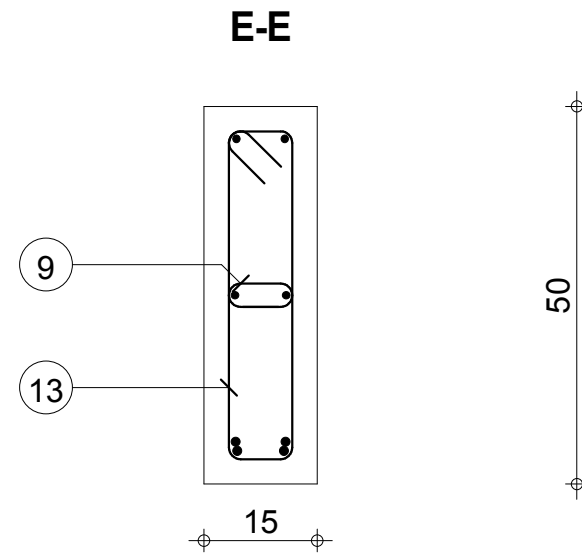
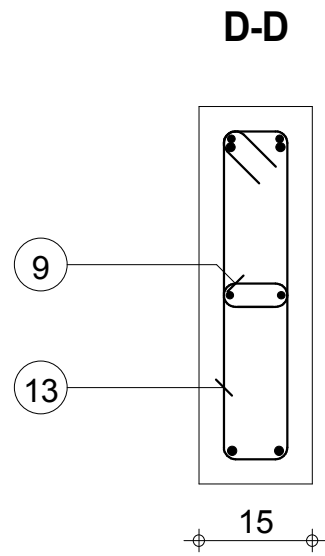
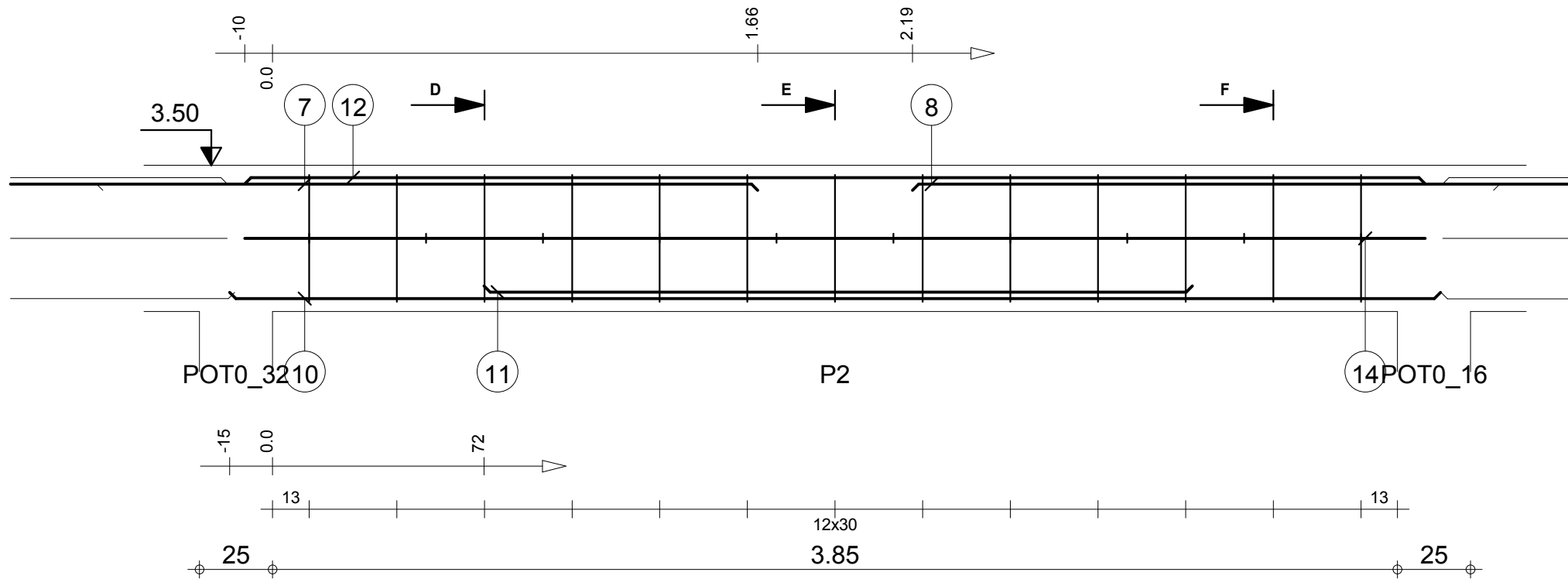
Acier HA 400 = 4.12 kg

Acier HA 400 = 8.69 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 7 | 2HA 12 | l=3.02 | 00 | 3.02 |
| 8 | 2HA 12 | l=2.92 | 00 | 2.92 |
| 9 | 10HA 6 | l=25 | 00 | |
| 10 | 2HA 12 | l=4.15 | 00 | 4.14 |
| 11 | 2HA 12 | l=2.42 | 00 | 2.42 |
| 12 | 2HA 10 | l=4.04 | 00 | 4.04 |
| 13 | 13HA 6 | l=1.18 | 31 | |
| 14 | 2HA 10 | l=4.04 | 00 | 4.04 |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

POU Q.18: P2
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

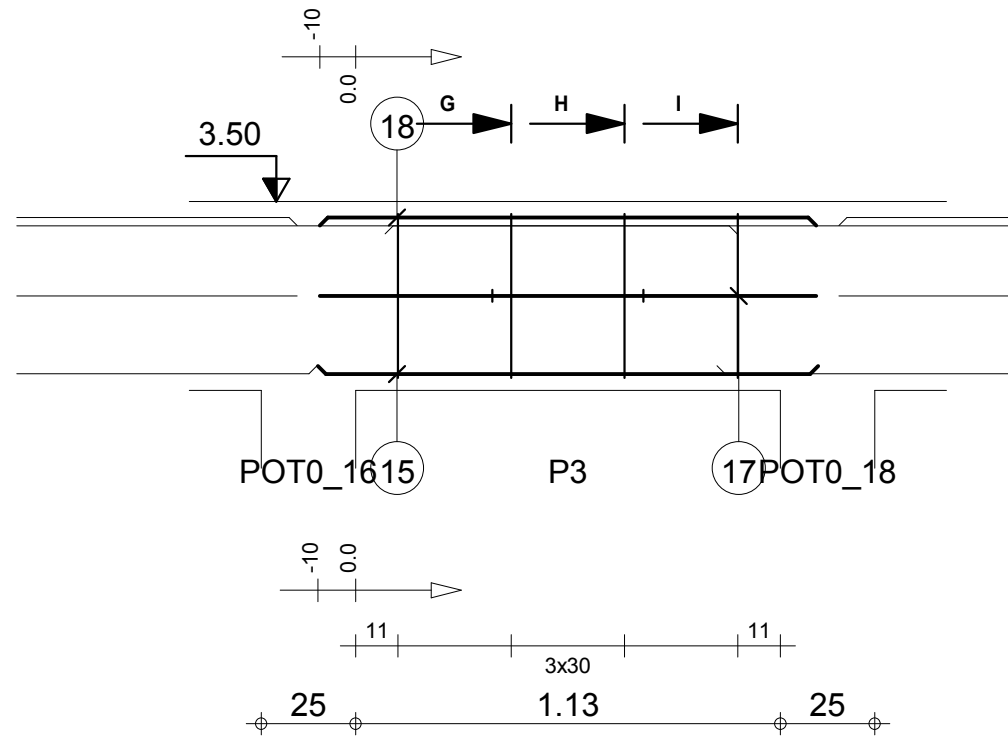
Page 2/4

Béton : BETON20 = 0.308 m3
Acier HA 400 = 8.94 kg
Acier HA 400 = 27.2 kg

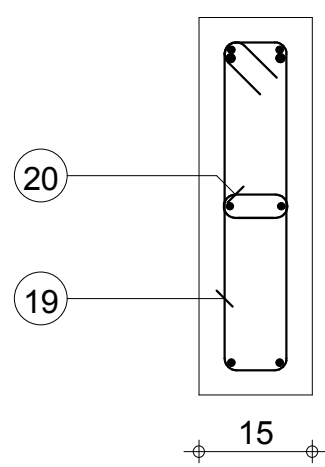
0

MINHDU_BAMBOUTOS_POUTRES

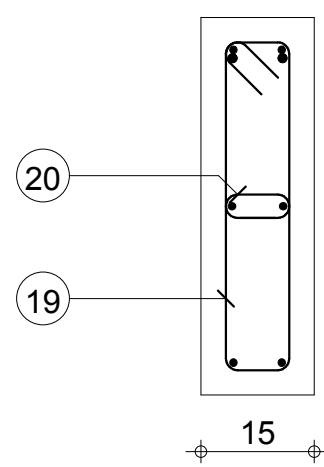
| Pos. | Armature | Code | Forme |
|------|----------|---------|-------|
| 15 | 2HA 10 | l=1.33 | 1.33 |
| 17 | 2HA 10 | l=1.31 | 1.32 |
| 18 | 2HA 10 | l=1.31 | 1.32 |
| 19 | 4HA 6 | l=1.18* | |
| 20 | 2HA 6 | l=25 | |



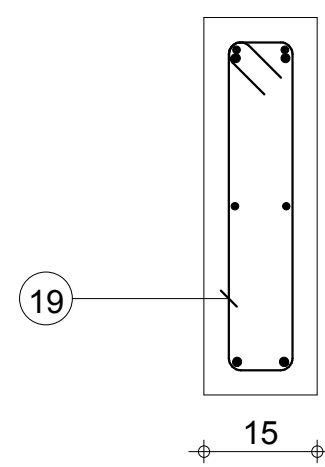
G-G



H-H



I-I



Tél.

Fax

Echelle pour la vue 1:20

Echelle pour la section 1:10

POU Q.18: P3

Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 3/4

Béton : BETON20 = 0.103 m3

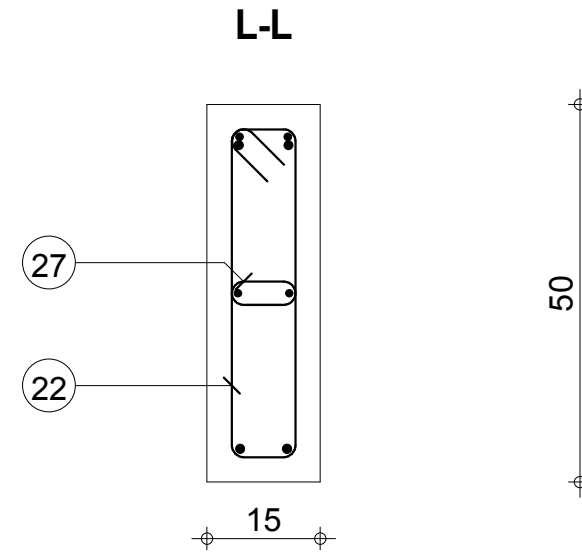
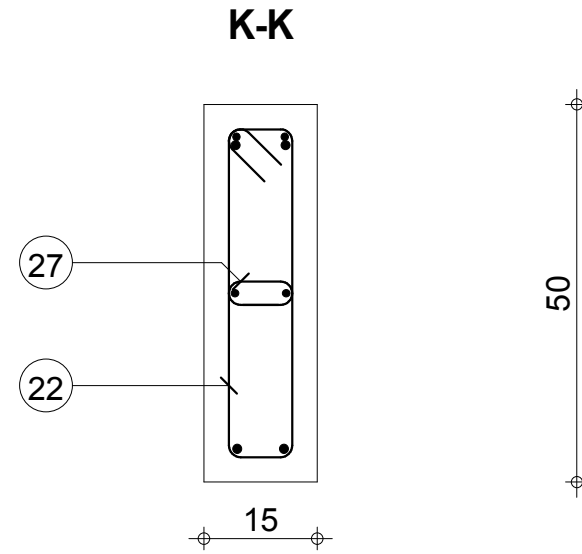
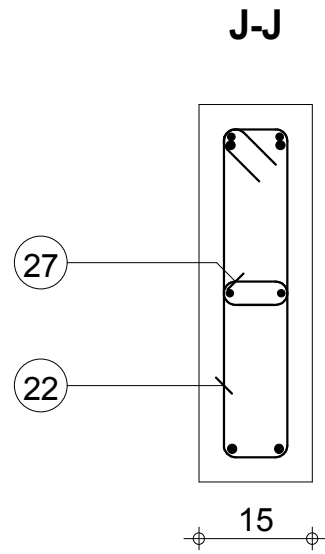
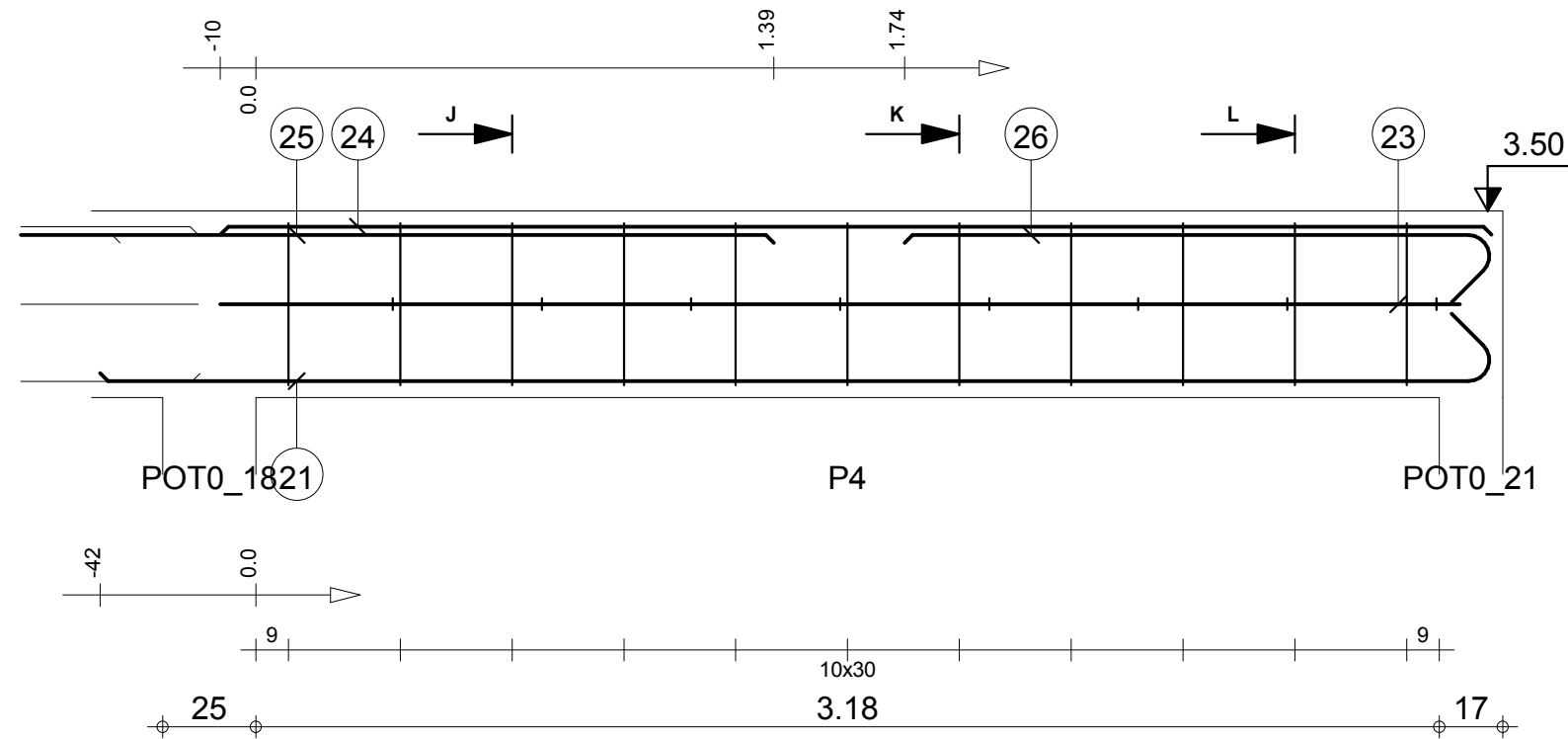
Acier HA 400 = 2.78 kg

Acier HA 400 = 3.26 kg

0

MINHDU_BAMBOUTOS_POUTRES

| Pos. | Armature | | Code | Forme |
|------|----------|--------|------|-------|
| 21 | 2HA 12 | l=3.92 | 00 | |
| 22 | 11HA 6 | l=1.18 | 31 | |
| 23 | 2HA 10 | l=3.33 | 00 | |
| 24 | 2HA 10 | l=3.41 | 00 | |
| 25 | 2HA 12 | l=2.69 | 00 | |
| 26 | 2HA 12 | l=1.76 | 00 | |
| 27 | 8HA 6 | l=25 | 00 | |



Tél.
Fax

Echelle pour la vue 1:20
Echelle pour la section 1:10

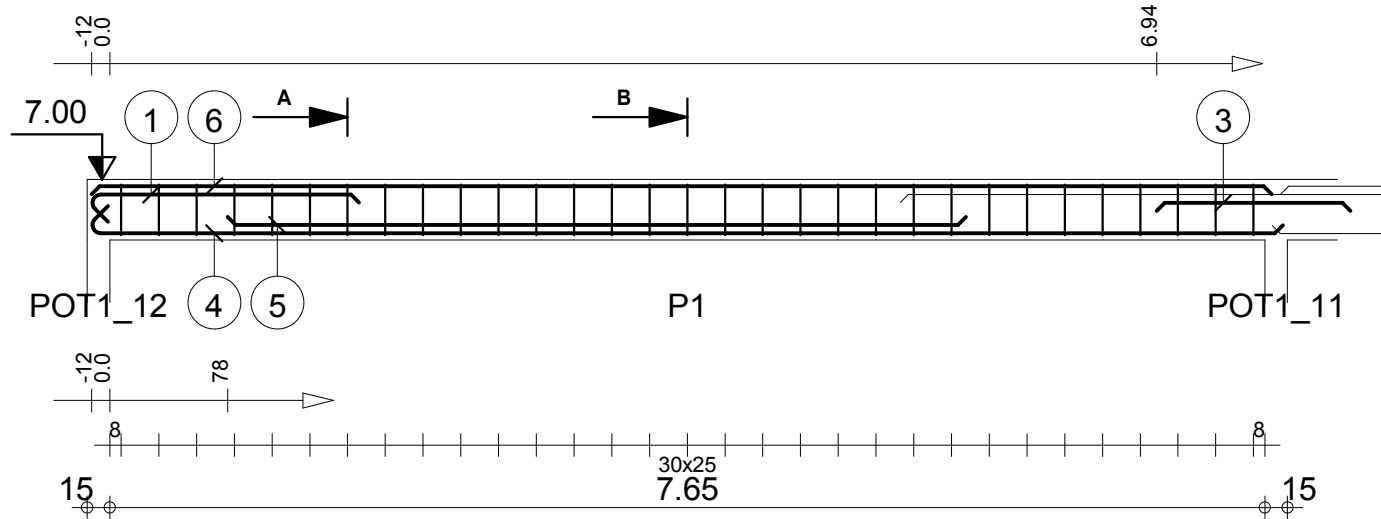
POU Q.18: P4
Section 15x50

Enrobage supérieur 3 cm
Enrobage inférieur 3 cm
Enrobage latéral 3 cm

Page 4/4

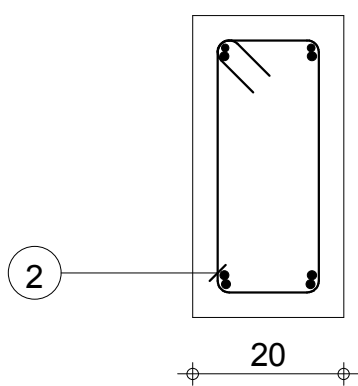
Béton : BETON20 = 0.26 m3
Acier HA 400 = 7.42 kg
Acier HA 400 = 19.1 kg

CHAINAGE

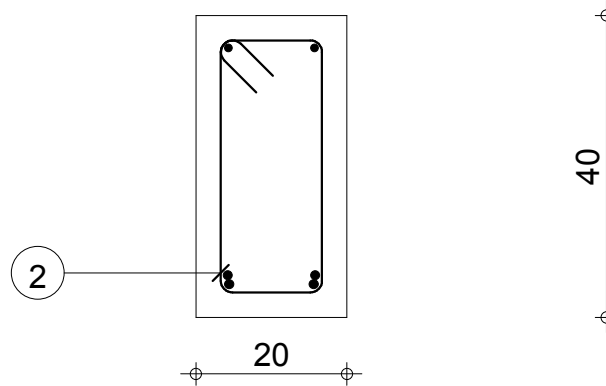


| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=1.96 | 00 |
| ② | 31HA 6 | l=1.08 | 31 |
| ③ | 2HA 12 | l=1.28 | 00 |
| ④ | 2HA 12 | l=8.08 | 00 |
| ⑤ | 2HA 12 | l=4.89 | 00 |
| ⑥ | 2HA 10 | l=7.82 | 00 |

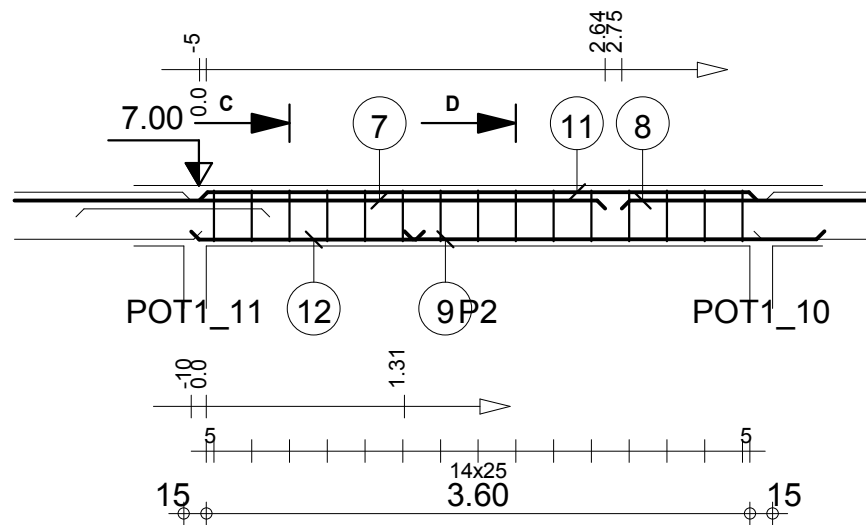
A-A



B-B



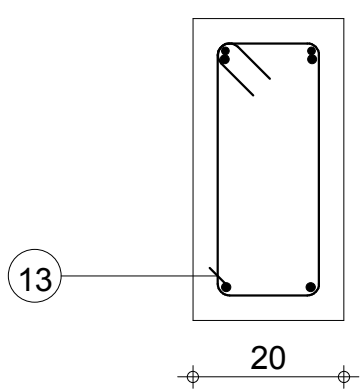
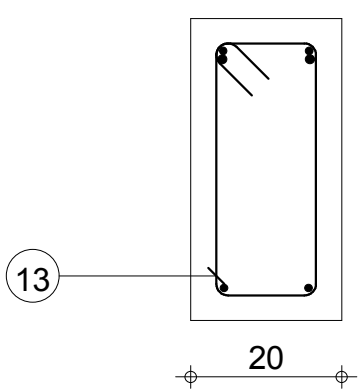
| | | | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|-------------------------------|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.63 m3 | | Acier HA 400 = 38.4 kg | |
| 1 | | CH4.AK : P1 | | Reprise de bétonnage : Non | | Surface du coffrage = 7.91 m2 | | Acier HA 400 = 7.42 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 72.7 kg/ m3 | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| PRO | | | | | | Diamètre moyen = 9.16mm | | Enrobage latéral 3 cm | |
| | | | | | | | | Echelle pour la vue 1/50 | |
| | | | | | | | | Echelle pour la section 1/10 | |
| | | | | | | | | Page 1/3 | |




| Pos. | Armature | Code | Forme |
|------|----------------|------|-------|
| 7 | 2HA 12 l=5.21 | 00 | 5.21 |
| 8 | 2HA 12 l=1.83 | 00 | 1.83 |
| 9 | 2HA 12 l=2.78 | 00 | 2.78 |
| 11 | 2HA 10 l=3.69 | 00 | 3.69 |
| 12 | 2HA 10 l=1.54 | 00 | 1.54 |
| 13 | 15HA 6 l=1.08* | 31 | |

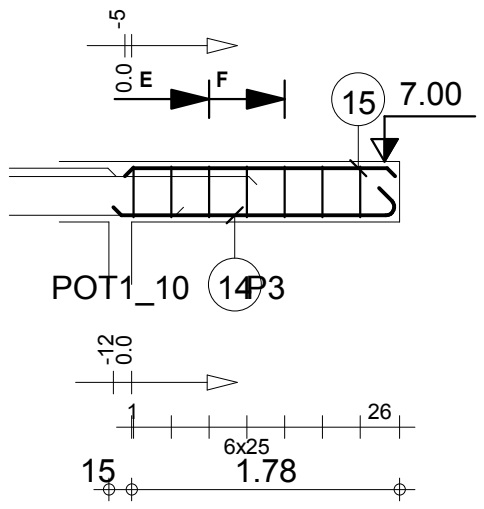
C-C

D-D



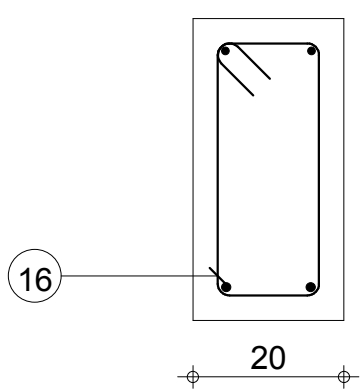
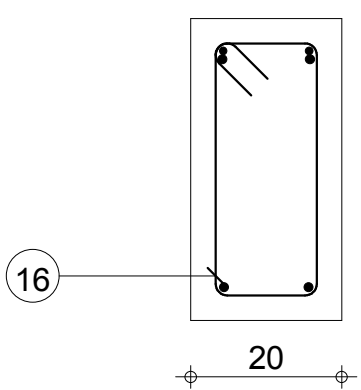
| | | | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|-------------------------------|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.3 m3 | | Acier HA 400 = 23.9 kg | |
| 1 | | CH4.AK : P2 | | Reprise de bétonnage : Non | | Surface du coffrage = 3.72 m2 | | Acier HA 400 = 3.58 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 91.67 kg/ m3 | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| PRO | | | | | | Diamètre moyen = 9.45mm | | Enrobage latéral 3 cm | |
| | | | | | | | | Echelle pour la vue 1/50 | |
| | | | | | | | | Echelle pour la section 1/10 | |
| | | | | | | | | Page 2/3 | |

| Pos. | Armature | Code | Forme |
|------|---------------|------|---|
| 14 | 2HA 12 l=2.06 | 00 | 1.87 |
| 15 | 2HA 10 l=1.79 | 00 | 1.79 |
| 16 | 7HA 6 l=1.08 | 31 |  |



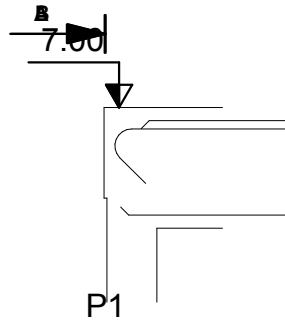
E-E

F-F



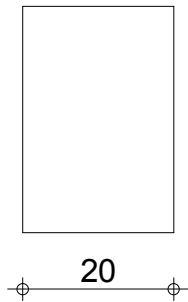
| | | | | |
|-----------------|-------------------------------|----------------------------|---|------------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.148 m ³ | Acier HA 400 = 5.86 kg |
| | | | Surface du coffrage = 1.92 m ² | Acier HA 400 = 1.67 kg |

| | | | | |
|--|--------------------------------------|--|----------|---|
|  | 1 MINHDU_BAMBOUTOS_POUTRES | CH4.AK : P3 Section 20x40 | Nombre 1 | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | Densité = 50.88 kg/ m ³ Diamètre moyen = 8.56mm |



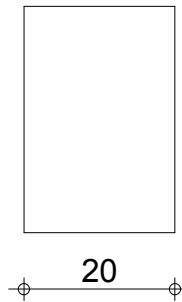
1 17

A-A




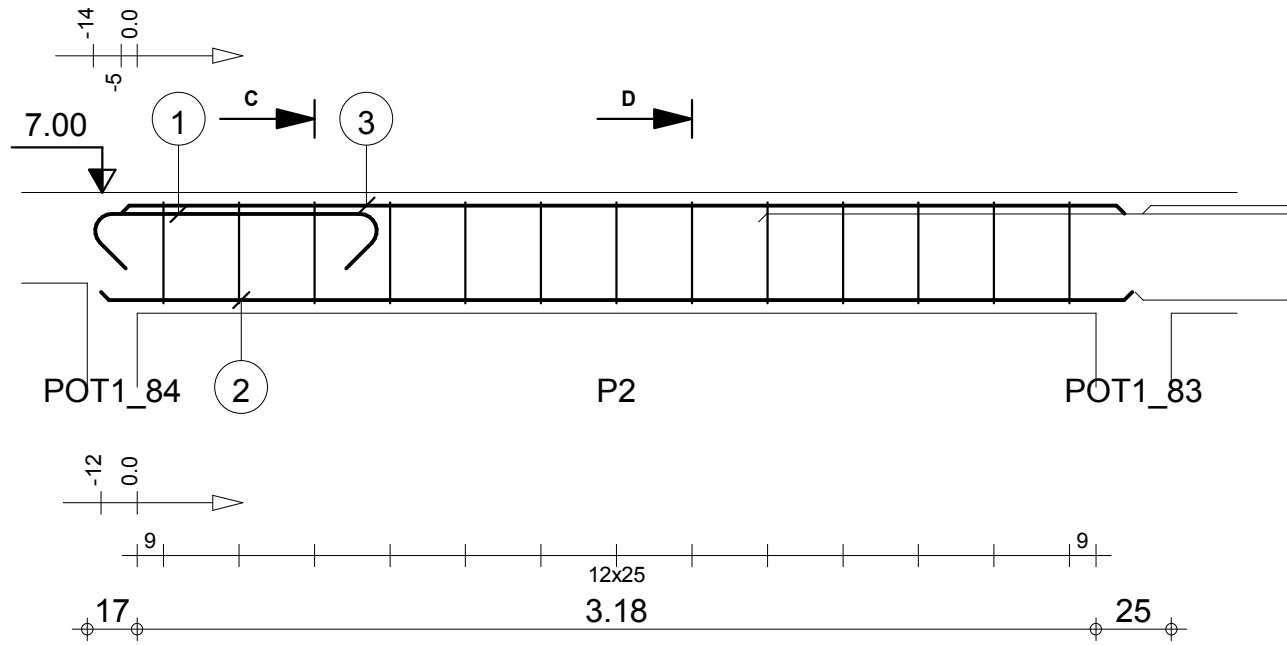
30

B-B



30

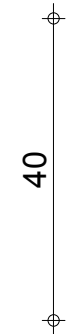
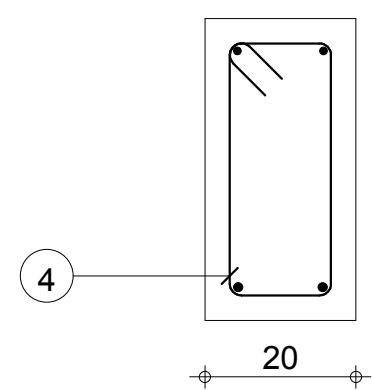
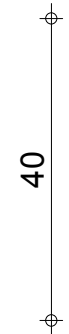
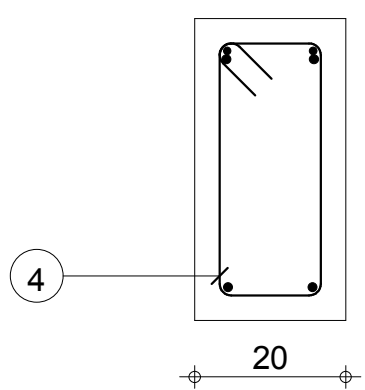
| | | | | | |
|---|--|-------------------------------|-----|--|----------|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CH4.LS : P1 Section 20x30 | | | Béton : BETON20 = 0.00885 m3 | |
| | | | | Surface du coffrage = 0.151 m2 | |
| | | | | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 1/3 |



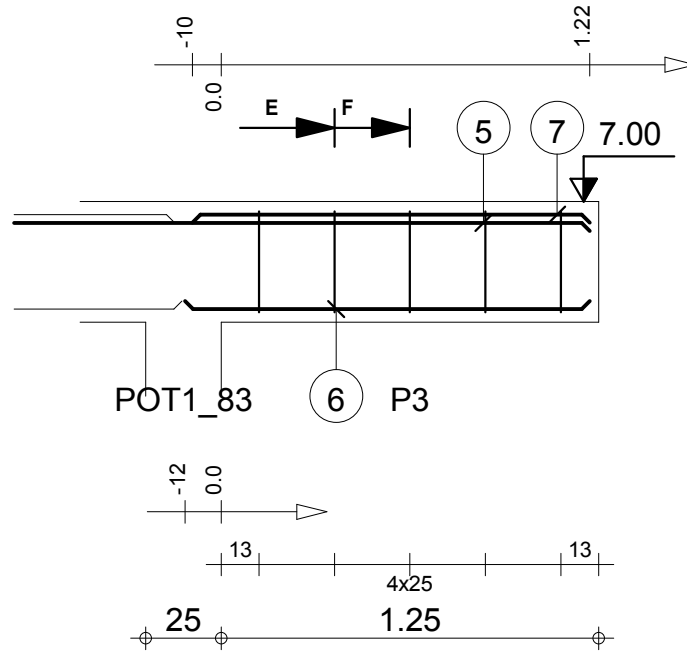
| Pos. | Armature | Code | Forme |
|------|----------|--------|-------|
| ① | 2HA 12 | l=1.32 | 00 |
| ② | 2HA 12 | l=3.42 | 00 |
| ③ | 2HA 10 | l=3.32 | 00 |
| ④ | 13HA 6 | l=1.08 | 31 |

C-C

D-D



| | | | | | | | |
|----------------|--------------------------------------|--|--|---|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Acier HA 400 = 12.5 kg | |
| Tél. | | Fax | | Béton : BETON20 = 0.272 m ³ | | Acier HA 400 = 3.11 kg | |
| | 1 MINHDU_BAMBOUTOS_POUTRES | CH4.LS : P2 Section 20x40 | | Surface du coffrage = 3.36 m ² | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | | | Densité = 57.35 kg/ m ³ Diamètre moyen = 8.77mm | | Enrobage latéral 3 cm | |
| | | | | Nombre 1 | | Page 2/3 | |

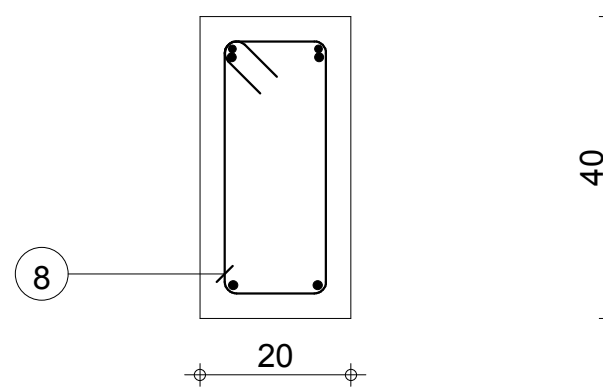
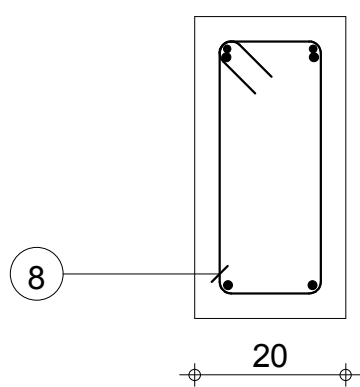


| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 5 | 2HA 12 l=2.59 | 00 | 2.59 |
| 6 | 2HA 12 l=1.34 | 00 | 1.34 |
| 7 | 2HA 10 l=1.31 | 00 | 1.32 |
| 8 | 5HA 6 l=1.08 | 31 | |

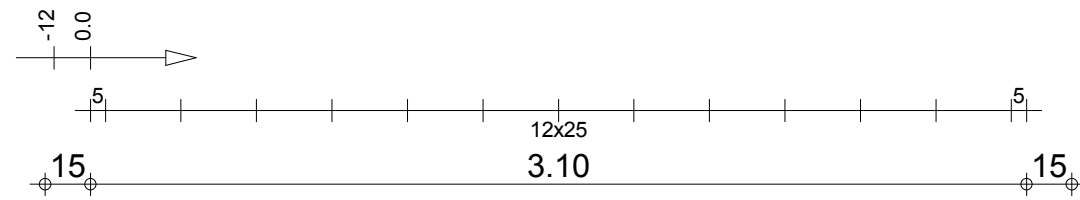
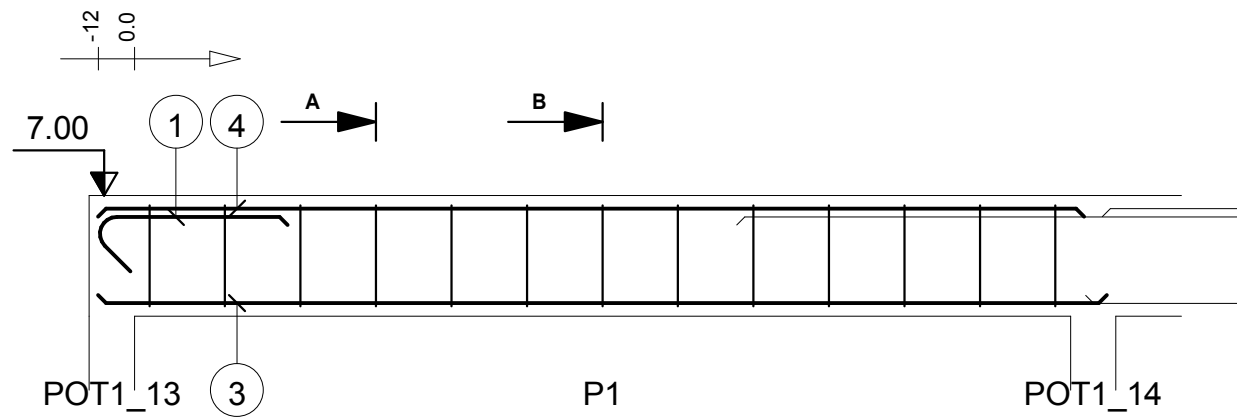
POT1_83 6 P3

E-E

F-F



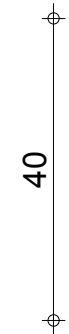
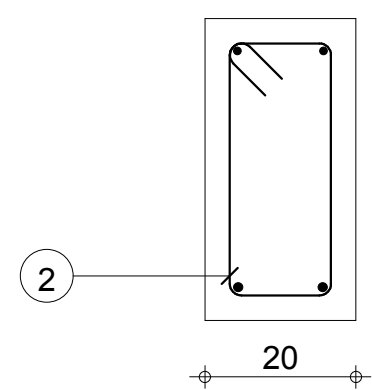
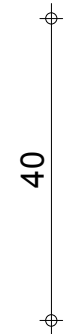
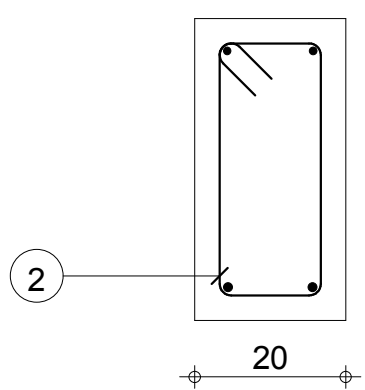
| | | | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|--|-------------------------------|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Béton : BETON20 = 0.11 m3 | | Acier HA 400 = 8.59 kg | |
| 1 | | CH4.LS : P3 | | Nombre 1 | | Surface du coffrage = 1.43 m2 | | Acier HA 400 = 1.2 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | | | Densité = 89 kg/ m3 | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| PRO | | | | | | Diamètre moyen = 9.63mm | | Enrobage latéral 3 cm | |
| | | | | | | | | Echelle pour la vue 1/25 | |
| | | | | | | | | Echelle pour la section 1/10 | |
| | | | | | | | | Page 3/3 | |



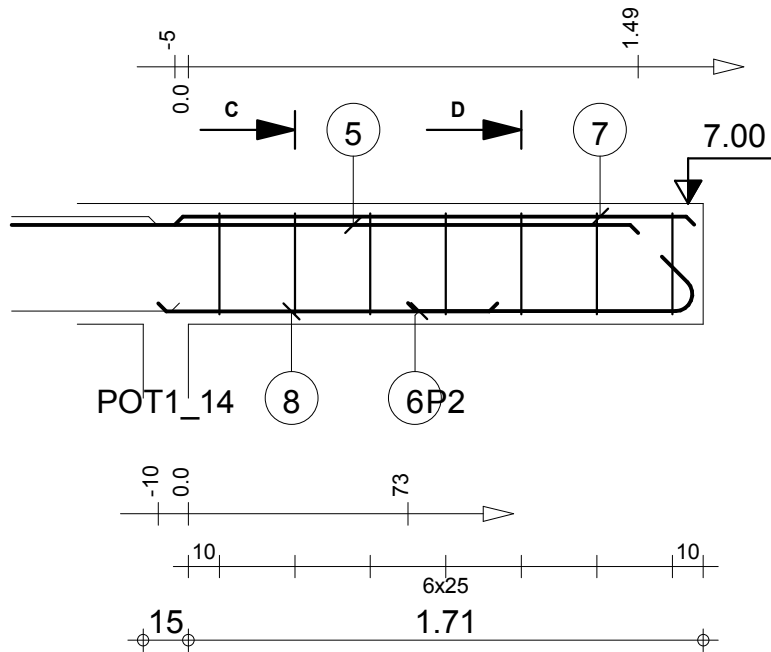
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=82 | 00 | |
| ② | 13HA 6 l=1.08 | 31 | |
| ③ | 2HA 12 l=3.34 | 00 | |
| ④ | 2HA 10 l=3.27 | 00 | |

A-A

B-B



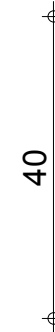
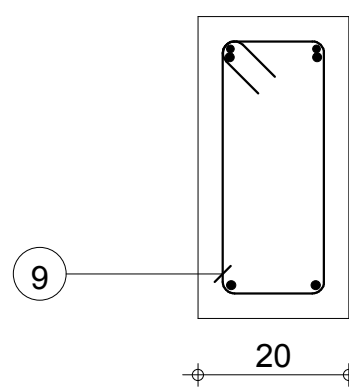
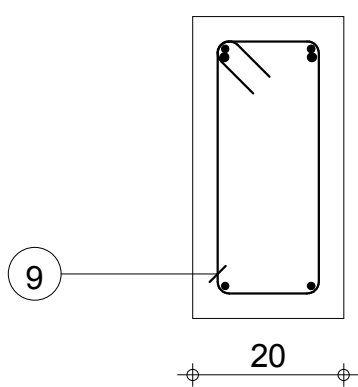
| | | | | | | |
|--|--------------------------------------|--|----------|--|--|---|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CH4.LS : P1 Section 20x40 | Nombre 1 | Tél. Fax | Béton : BETON20 = 0.266 m ³ | Acier HA 400 = 11.4 kg Acier HA 400 = 3.11 kg |
| | | | | Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non | Surface du coffrage = 3.36 m ² | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | Densité = 54.51 kg/ m ³ Diamètre moyen = 8.63mm | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 1/2 |



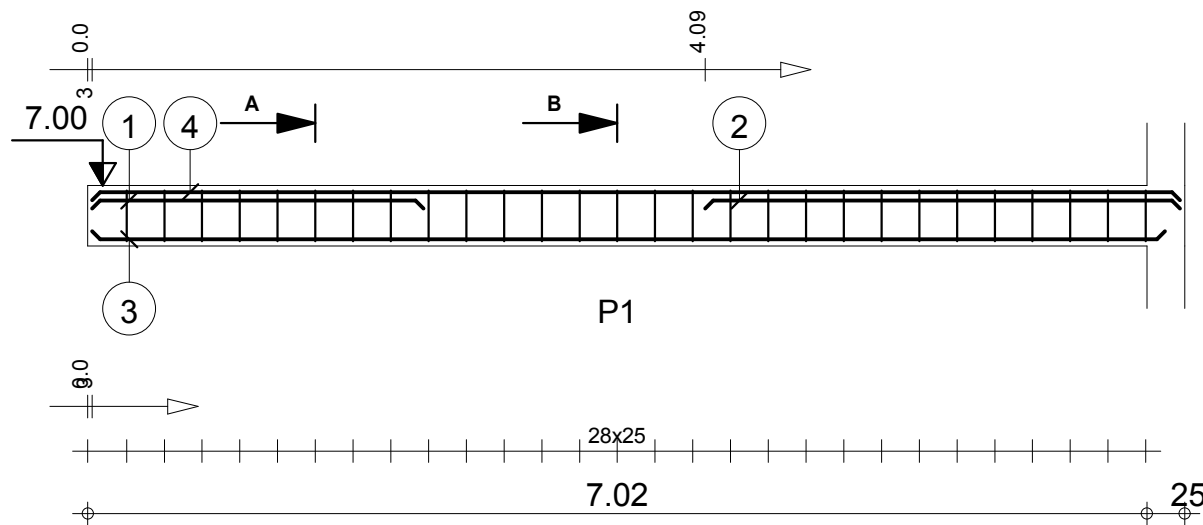
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 5 | 2HA 12 l=2.75 | 00 | 2.75 |
| 6 | 2HA 12 l=1.14 | 00 | 95 |
| 7 | 2HA 10 l=1.72 | 00 | 1.72 |
| 8 | 2HA 10 l=1.12 | 00 | 1.12 |
| 9 | 7HA 6 l=1.08* | 31 | |

C-C

D-D

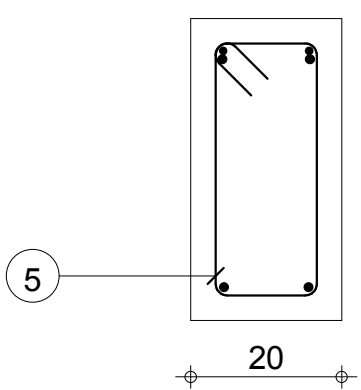


| | | | | | | | |
|----------------|--------------------------------------|--|--|--|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Acier HA 400 = 10.4 kg | |
| Tél. | | Fax | | Béton : BETON20 = 0.142 m ³ | | Acier HA 400 = 1.67 kg | |
| | 1 MINHDU_BAMBOUTOS_POUTRES | CH4.LS : P2 Section 20x40 | | Surface du coffrage = 1.85 m ² | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | | | Densité = 85.21 kg/ m ³ Diamètre moyen = 9.3mm | | Enrobage latéral 3 cm | |
| | | | | Nombre 1 | | Page 2/2 | |

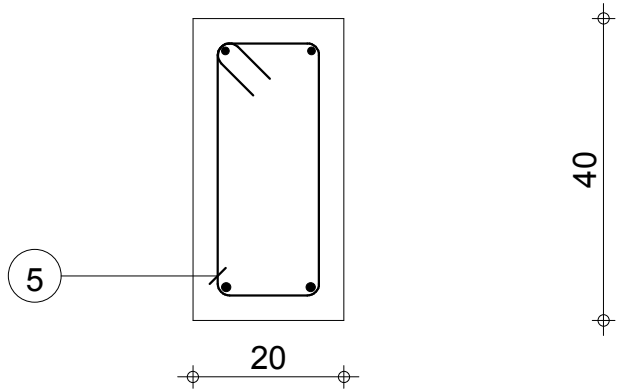


| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=2.19 | 00 | 2.19 |
| ② | 2HA 12 l=3.15 | 00 | 3.15 |
| ③ | 2HA 12 l=7.11 | 00 | 7.11 |
| ④ | 2HA 10 l=7.21 | 00 | 7.21 |
| ⑤ | 28HA 6 l=1.08 | 31 | |

A-A




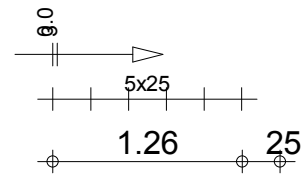
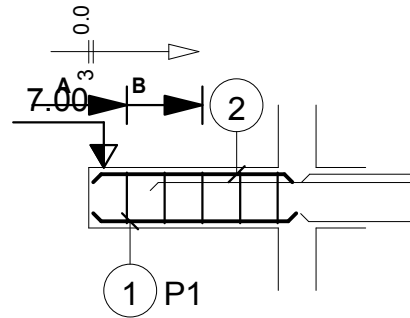
B-B



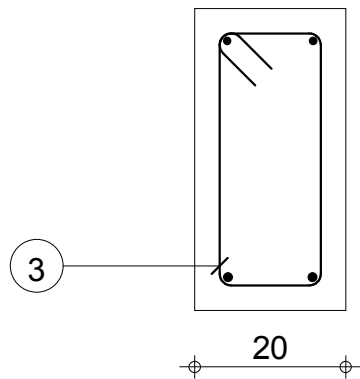
| | | | | |
|-----------------|-------------------------------|----------------------------|---|-----------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.581 m ³ | Acier HA 400 = 31 kg |
| | | | Surface du coffrage = 7.38 m ² | Acier HA 400 = 6.7 kg |

| | | | | | | |
|--|--------------------------------------|--|----------|---|--|----------|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CH9.CK : P1 Section 20x40 | Nombre 1 | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/50 Echelle pour la section 1/10 | Page 1/1 |
| | | | | Densité = 64.89 kg/ m ³ Diamètre moyen = 8.98mm | | |

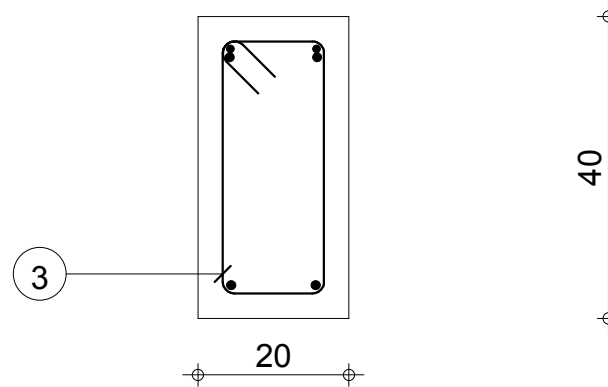
| Pos. | Armature | Code | Forme |
|------|---------------|------|---|
| ① | 2HA 12 l=1.35 | 00 | 1.35 |
| ② | 2HA 10 l=1.32 | 00 | 1.32 |
| ③ | 5HA 6 l=1.08 | 31 |  |



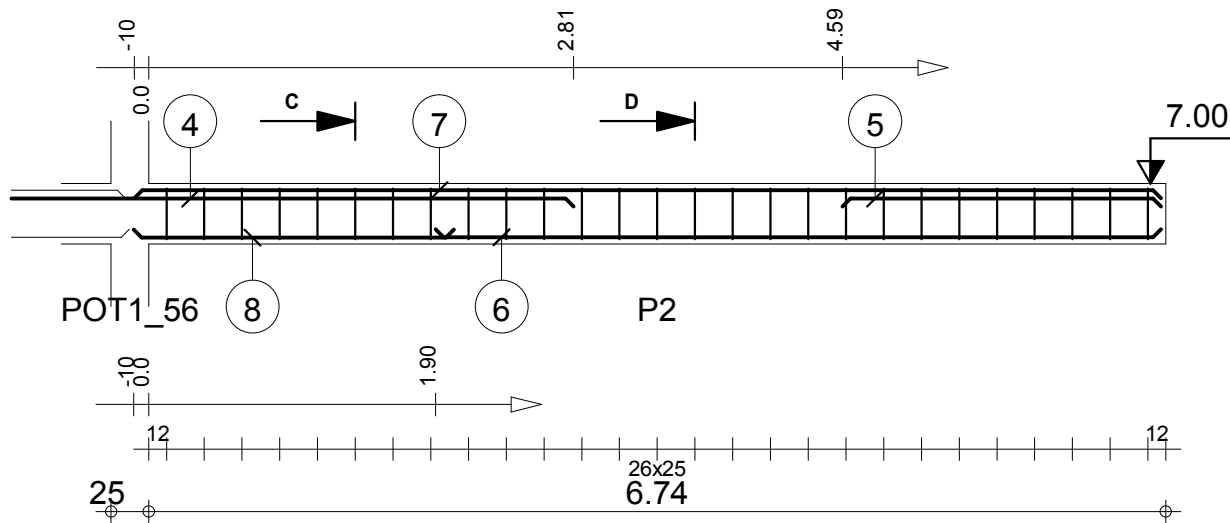
A-A



B-B

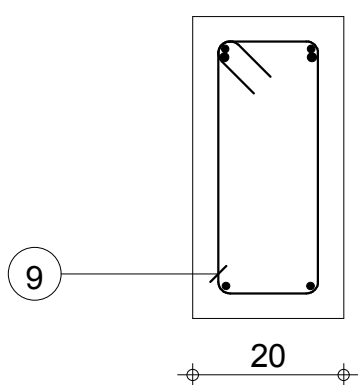


| | | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|-------------------------------|------------------------------|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.11 m3 | Acier HA 400 = 4.02 kg | |
| 1 | | CH9.LP' : P1 | | Reprise de bétonnage : Non | | Surface du coffrage = 1.44 m2 | Acier HA 400 = 1.2 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Enrobage inférieur 3 cm | Enrobage supérieur 3 cm | |
| PRO | | | | | | Densité = 47.36 kg/ m3 | Echelle pour la vue 1/50 | |
| | | | | | | Diamètre moyen = 8.49mm | Echelle pour la section 1/10 | |
| | | | | | | | Page 1/2 | |

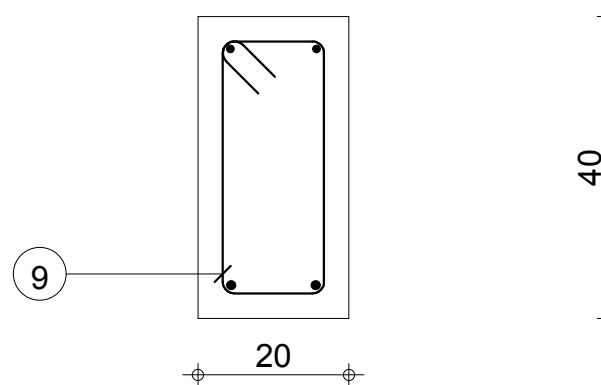


| Pos. | Armature | Code | Forme |
|------|----------------|------|-------|
| ④ | 2HA 12 l=3.91 | 00 | 3.91 |
| ⑤ | 2HA 12 l=2.11 | 00 | 2.11 |
| ⑥ | 2HA 12 l=4.80 | 00 | 4.80 |
| ⑦ | 2HA 10 l=6.80 | 00 | 6.80 |
| ⑧ | 2HA 10 l=2.12 | 00 | 2.12 |
| ⑨ | 27HA 6 l=1.08* | 31 | |

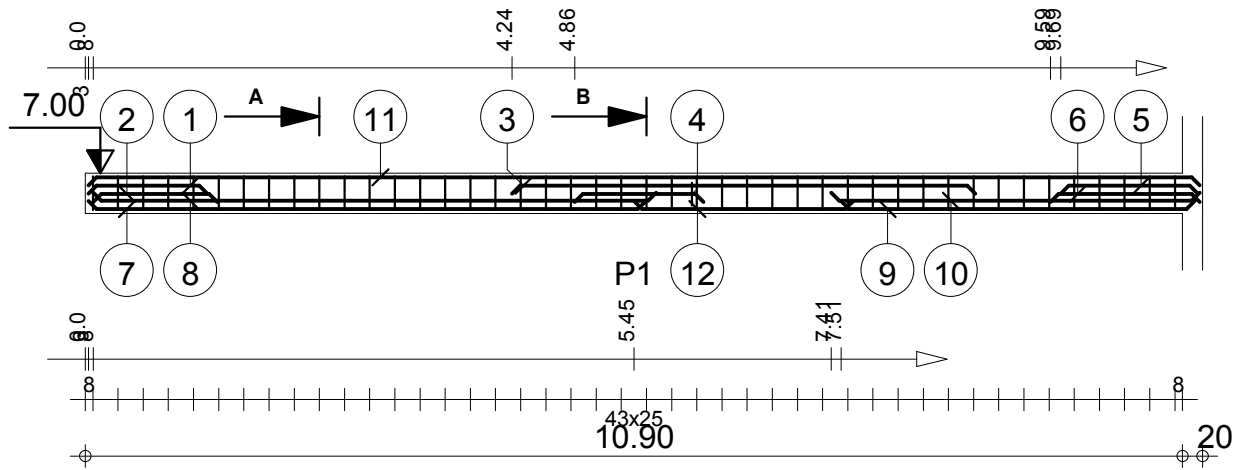
C-C



D-D

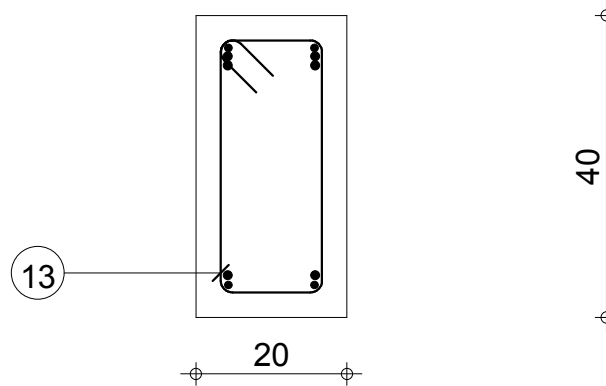
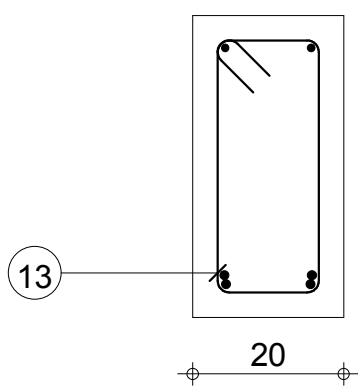


| | | | | | |
|--|---|---|---|--|--|
| Tél. | | Fax | | Acier HA 400 = 30.2 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| 1 MINHDU_BAMBOUTOS_POUTRES | CH9.LP' : P2 Section 20x40 | | Béton : BETON20 = 0.549 m ³ | | Acier HA 400 = 6.45 kg |
| | | | Surface du coffrage = 6.92 m ² | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | Densité = 66.85 kg/ m ³ Diamètre moyen = 8.94mm | | Echelle pour la vue 1/50 Echelle pour la section 1/10 | |
| | | Nombre 1 | | Page 2/2 | |



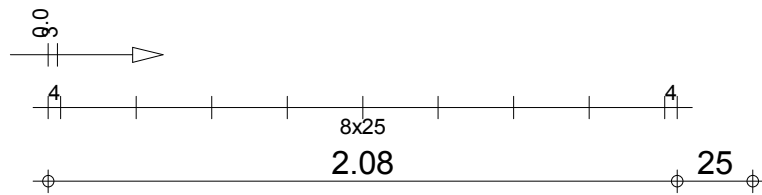
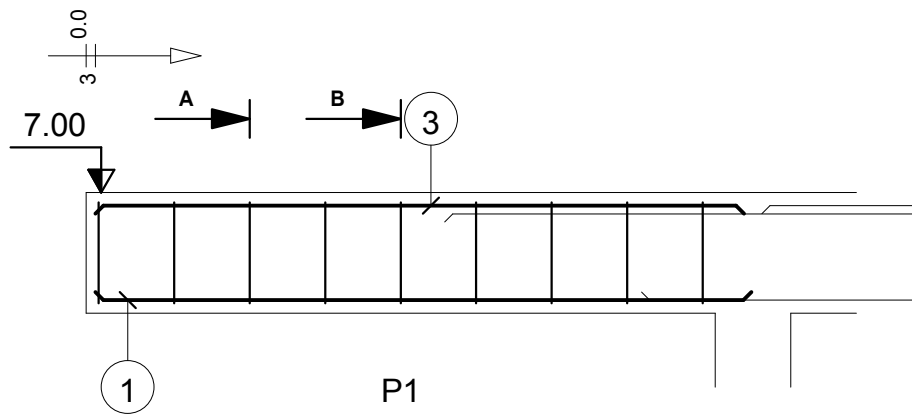
A-A

B-B



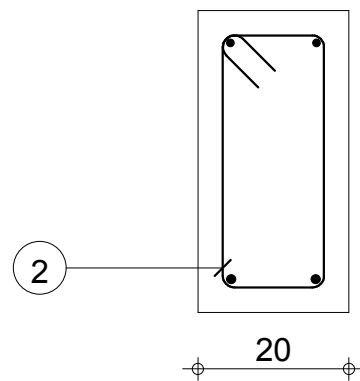
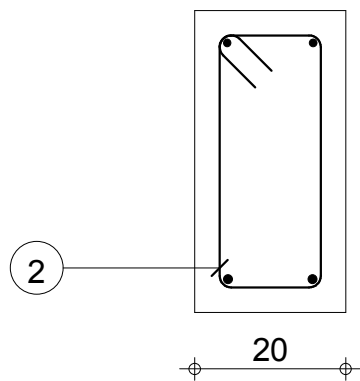
| Pos. | Armature | Code | Forme |
|------|----------------|------|-------|
| ① | 2HA 12 l=1.18 | 00 | 1.18 |
| ② | 2HA 12 l=1.23 | 00 | 1.23 |
| ③ | 2HA 12 l=4.60 | 00 | 4.60 |
| ④ | 2HA 12 l=1.28 | 00 | 1.28 |
| ⑤ | 2HA 12 l=1.36 | 00 | 1.36 |
| ⑥ | 2HA 12 l=1.48 | 00 | 1.48 |
| ⑦ | 2HA 12 l=5.54 | 00 | 5.54 |
| ⑧ | 2HA 12 l=5.59 | 00 | 5.59 |
| ⑨ | 2HA 12 l=3.51 | 00 | 3.51 |
| ⑩ | 2HA 12 l=3.66 | 00 | 3.66 |
| ⑪ | 2HA 10 l=11.04 | 00 | 11.04 |
| ⑫ | 2HA 10 l=2.18 | 00 | 2.18 |
| ⑬ | 44HA 6 l=1.08* | 31 | |

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|--|---|---|---|--|---|
| Tél. | | Fax | | Acier HA 400 = 68.6 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| 1 MINHDU_BAMBOUTOS_POUTRES | CH14.GM : P1 Section 20x40 | | Béton : BETON20 = 0.888 m ³ | | Acier HA 400 = 10.5 kg |
| | | | Surface du coffrage = 11.2 m ² | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | Densité = 89.08 kg/ m ³ Diamètre moyen = 9.46mm | | Echelle pour la vue 1/75 Echelle pour la section 1/10 | |
| | | | | Page 1/1 | |



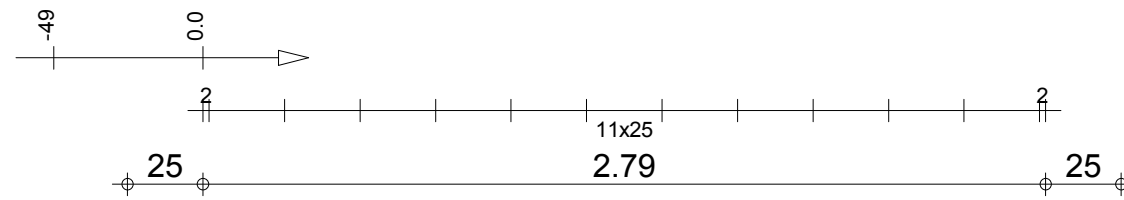
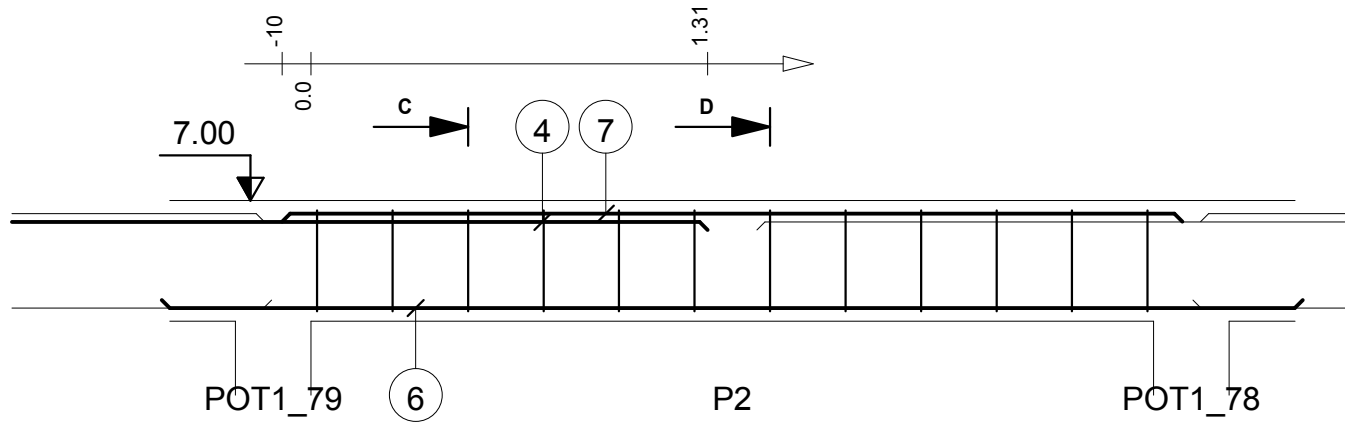
A-A

B-B



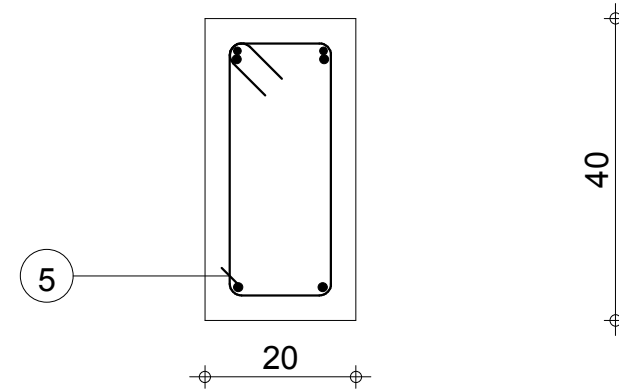
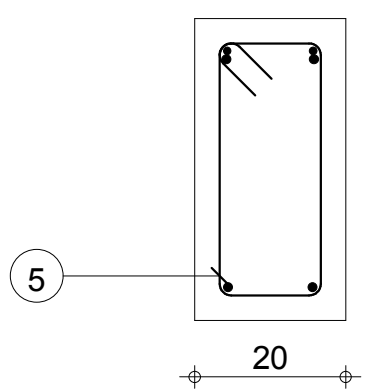
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=2.17 | 00 | 2.17 |
| ② | 9HA 6 l=1.08 | 31 | |
| ③ | 2HA 10 l=2.15 | 00 | 2.15 |

| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|---|---|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.177 m ³ | Acier HA 400 = 6.51 kg |
| 1 | | CH15.BC' : P1 | | Reprise de bétonnage : Non | | Surface du coffrage = 2.26 m ² | Acier HA 400 = 2.15 kg |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 48.93 kg/ m ³ | Enrobage inférieur 3 cm Enrobage supérieur 3 cm |
| PRO | | | | | | Diamètre moyen = 8.36mm | Enrobage latéral 3 cm |
| | | | | | | Echelle pour la vue 1/25 | Page 1/4 |
| | | | | | | Echelle pour la section 1/10 | |



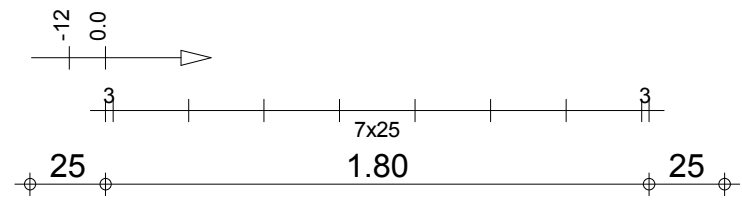
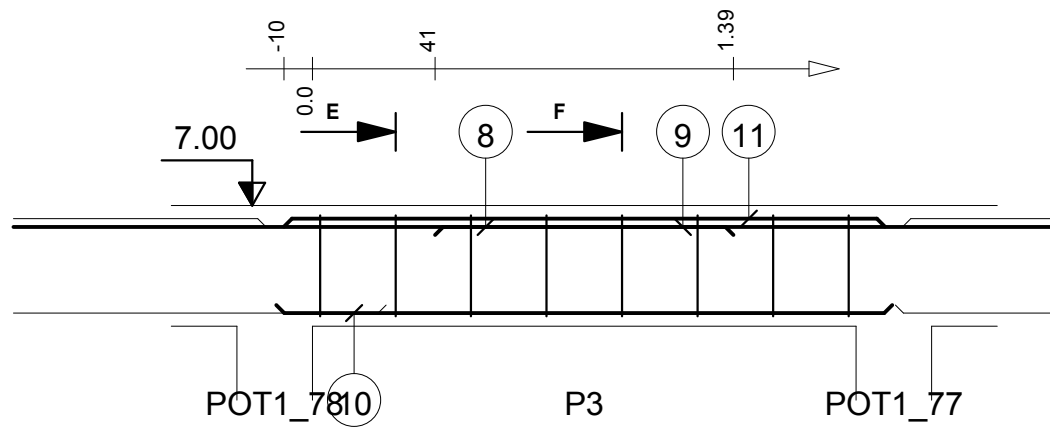
C-C

D-D



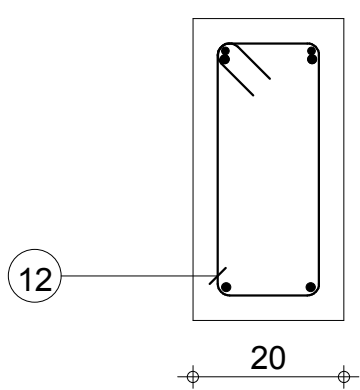
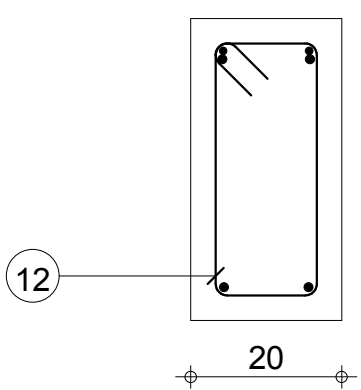
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ④ | 2HA 12 l=2.46 | 00 | 2.46 |
| ⑤ | 12HA 6 l=1.08 | 31 | |
| ⑥ | 2HA 12 l=3.78 | 00 | 3.78 |
| ⑦ | 2HA 10 l=2.98 | 00 | 2.98 |

| | | | | | | |
|--|--------------------------------------|--|----------|--|--|---|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CH15.BC' : P2 Section 20x40 | Nombre 1 | Tél. Fax | Béton : BETON20 = 0.243 m ³ Surface du coffrage = 2.99 m ² Densité = 72.43 kg/ m ³ Diamètre moyen = 9.15mm | Acier HA 400 = 14.8 kg Acier HA 400 = 2.87 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 2/4 |




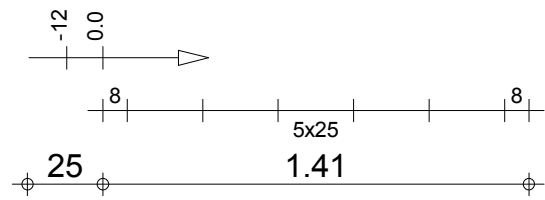
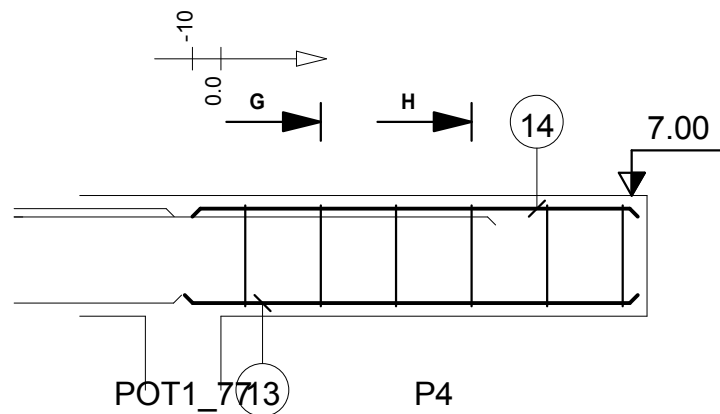
E-E

F-F



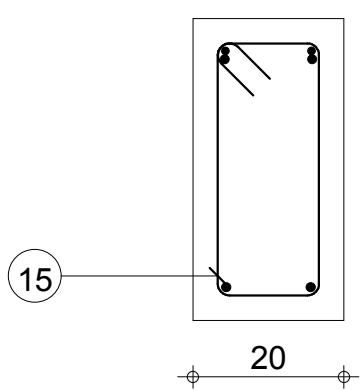
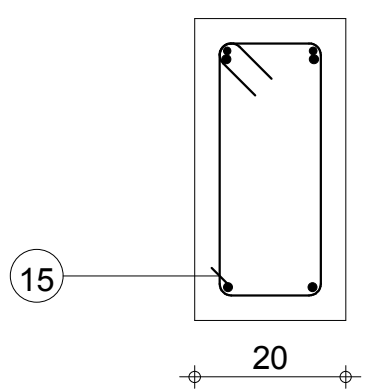
| Pos. | Armature | Code | Forme |
|------|---------------|------|---------|
| 8 | 2HA 12 l=2.96 | 00 | 2.96 |
| 9 | 2HA 12 l=2.55 | 00 | 2.55 |
| 10 | 2HA 12 l=2.04 | 00 | 2.04 |
| 11 | 2HA 10 l=1.99 | 00 | 1.99 |
| 12 | 8HA 6 l=1.08 | 31 | 14 8 |

| | | | | | |
|---|--|-----------------|---|--|--|
|  <p>1 MINHDU_BAMBOUTOS_POUTRES</p> | <p>CH15.BC' : P3 Section 20x40</p> | <p>Nombre 1</p> | <p>Tél. Fax</p> | <p>Acier HA 400 = 15.9 kg Acier HA 400 = 1.91 kg</p> | |
| | | | <p>Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non</p> | <p>Béton : BETON20 = 0.164 m3 Surface du coffrage = 2 m2</p> | <p>Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm</p> |
| | | | <p>Densité = 108.5 kg/ m3 Diamètre moyen = 9.85mm</p> | <p>Echelle pour la vue 1/25 Echelle pour la section 1/10</p> | <p>Page 3/4</p> |



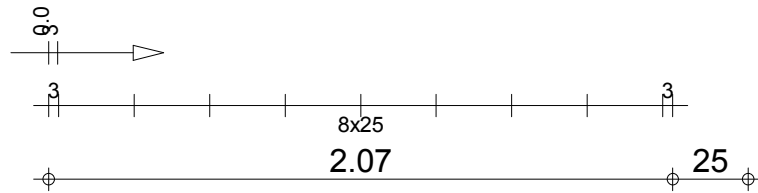
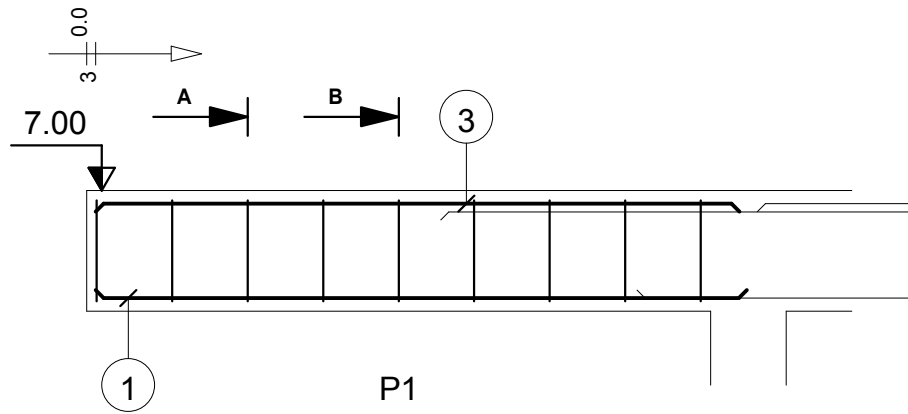
G-G

H-H



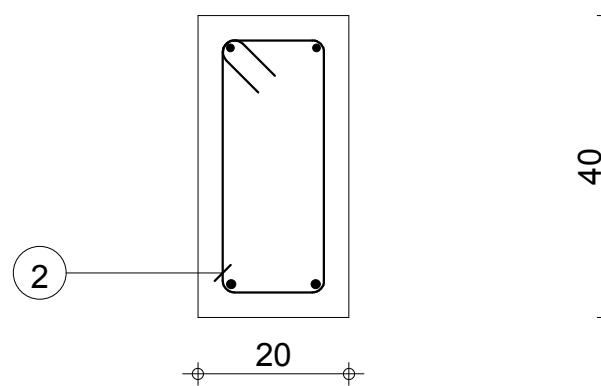
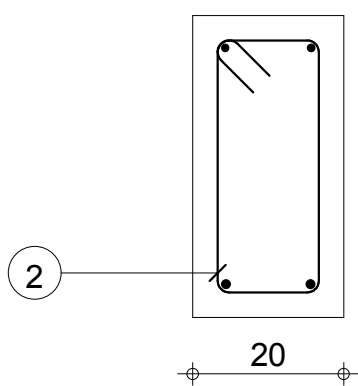
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 13 | 2HA 12 l=1.50 | 00 | 1.50 |
| 14 | 2HA 10 l=1.48 | 00 | 1.48 |
| 15 | 6HA 6 l=1.08 | 31 | |

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|-----------------|--|------------------------------------|--|---|--|
| Tél. | | Fax | | Acier HA 400 = 4.48 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| | CH15.BC' : P4 Section 20x40 | Nombre 1 | | Béton : BETON20 = 0.123 m ³ | |
| | | | | Surface du coffrage = 1.59 m ² | |
| | | Densité = 48.13 kg/ m ³ | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | Diamètre moyen = 8.4mm | | Enrobage latéral 3 cm | |
| | | | | Echelle pour la vue 1/25 | |
| | | | | Echelle pour la section 1/10 | |
| | | | | Page 4/4 | |



A-A

B-B



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=2.16 | 00 | 2.16 |
| ② | 9HA 6 l=1.08 | 31 | |
| ③ | 2HA 10 l=2.13 | 00 | 2.13 |

| | | | | | |
|--|--|---|--|---|--|
| Tél. | | Fax | | Acier HA 400 = 6.46 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| Béton : BETON20 = 0.175 m ³ | | Surface du coffrage = 2.25 m ² | | Acier HA 400 = 2.15 kg | |
| Densité = 49.2 kg/ m ³ | | Diamètre moyen = 8.35mm | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| Enrobage latéral 3 cm | | Echelle pour la vue 1/25 | | Echelle pour la section 1/10 | |



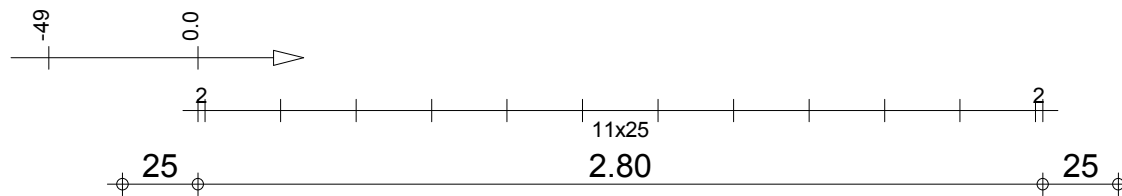
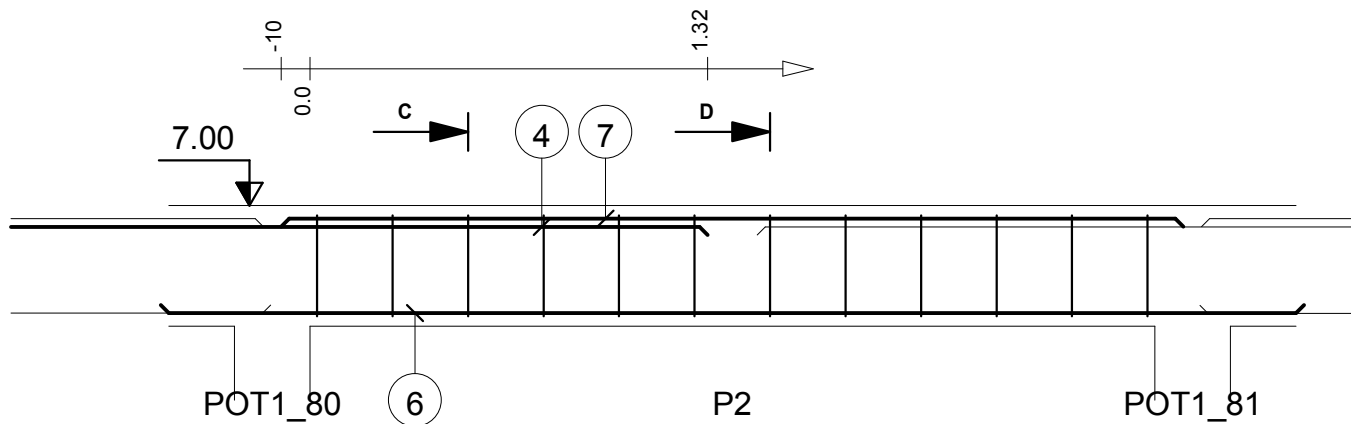
1

MINHDU_BAMBOUTOS_POUTRES

CH16.P'R : P1
Section 20x40

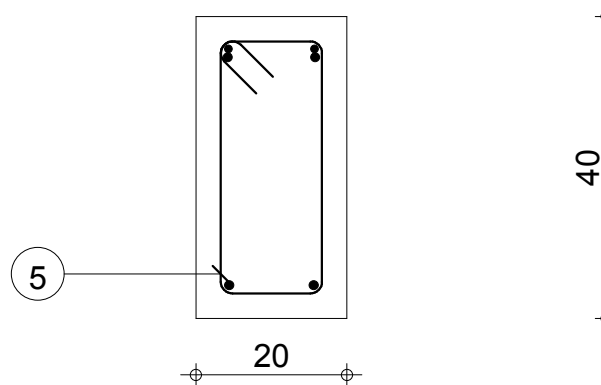
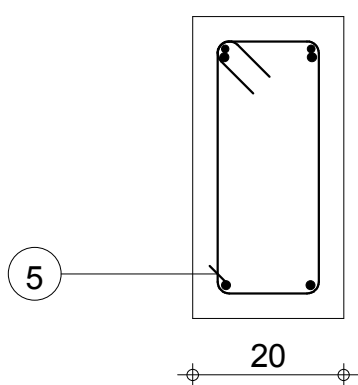
Nombre 1

Page 1/4



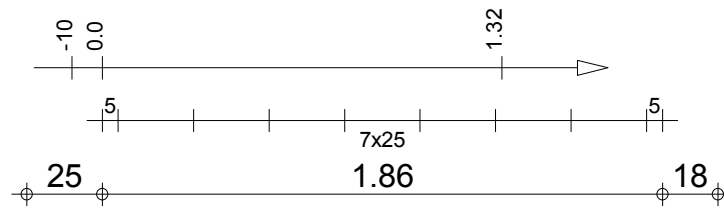
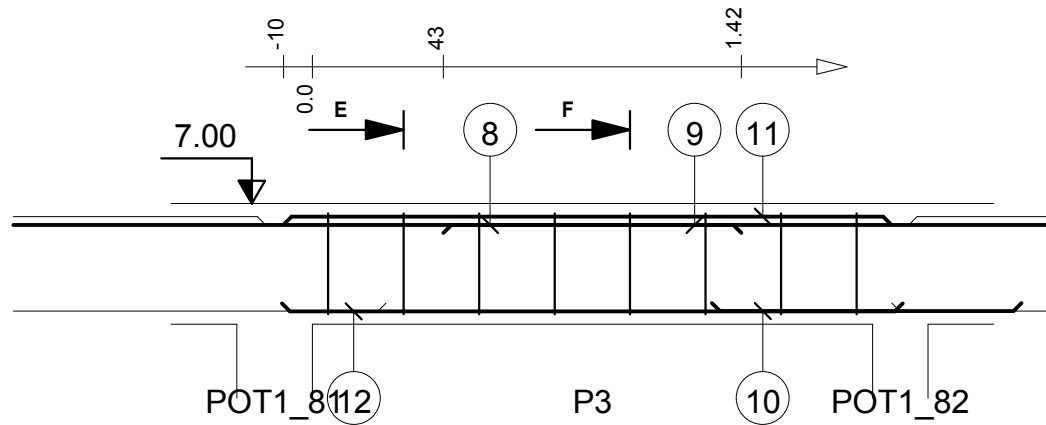
C-C

D-D



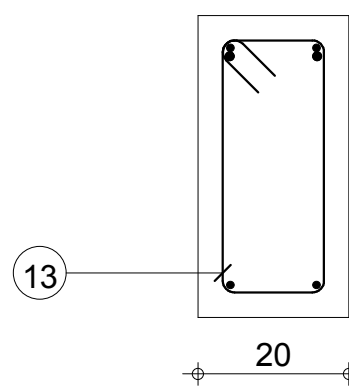
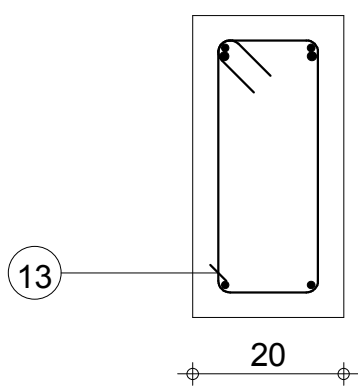
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ④ | 2HA 12 l=2.46 | 00 | 2.46 |
| ⑤ | 12HA 6 l=1.08 | 31 | |
| ⑥ | 2HA 12 l=3.79 | 00 | 3.79 |
| ⑦ | 2HA 10 l=2.99 | 00 | 2.99 |

| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|--|---|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.244 m ³ | Acier HA 400 = 14.8 kg |
| 1 | | CH16.P'R : P2 | | Reprise de bétonnage : Non | | Surface du coffrage = 3 m ² | Acier HA 400 = 2.87 kg |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 72.13 kg/ m ³ | Enrobage inférieur 3 cm Enrobage supérieur 3 cm |
| PRO | | | | | | Diamètre moyen = 9.15mm | Enrobage latéral 3 cm |
| | | | | | | Echelle pour la vue 1/25 | Echelle pour la section 1/10 |
| | | | | | | | Page 2/4 |



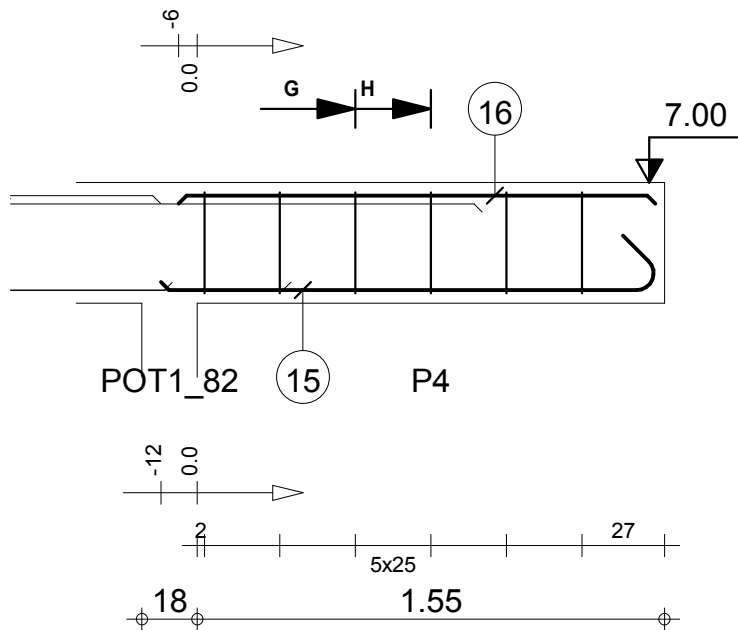
E-E

F-F



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 8 | 2HA 12 l=2.99 | 00 | 2.99 |
| 9 | 2HA 12 l=2.55 | 00 | 2.55 |
| 10 | 2HA 12 l=1.02 | 00 | 1.03 |
| 11 | 2HA 10 l=2.01 | 00 | 2.01 |
| 12 | 2HA 10 l=2.06 | 00 | 2.06 |
| 13 | 8HA 6 l=1.08* | 31 | |

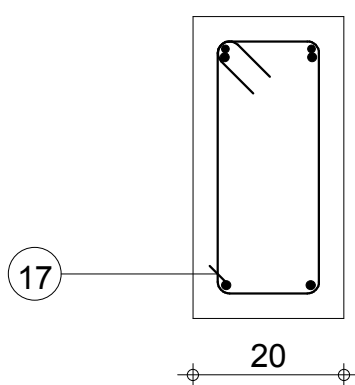
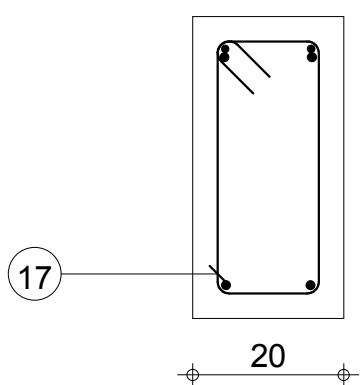
| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|---|---|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.166 m ³ | Acier HA 400 = 16.7 kg |
| 1 | | CH16.P'R : P3 | | Reprise de bétonnage : Non | | Surface du coffrage = 2.03 m ² | Acier HA 400 = 1.91 kg |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 112 kg/ m ³ | Enrobage inférieur 3 cm Enrobage supérieur 3 cm |
| PRO | | | | | | Diamètre moyen = 9.73mm | Enrobage latéral 3 cm |
| | | | | | | Echelle pour la vue 1/25 | Page 3/4 |
| | | | | | | Echelle pour la section 1/10 | |



| Pos. | Armature | Code | Forme |
|------|---------------|------|---------|
| 15 | 2HA 12 l=1.83 | 00 | 1.64 |
| 16 | 2HA 10 l=1.58 | 00 | 1.58 |
| 17 | 6HA 6 l=1.08 | 31 | 14 8 |

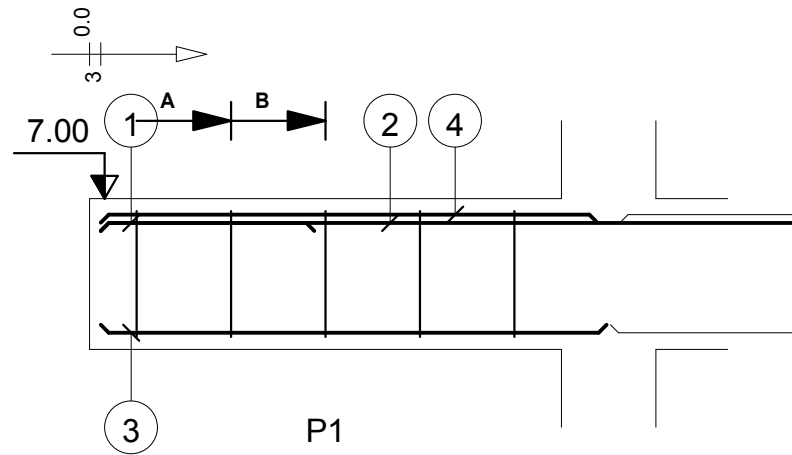
G-G


H-H

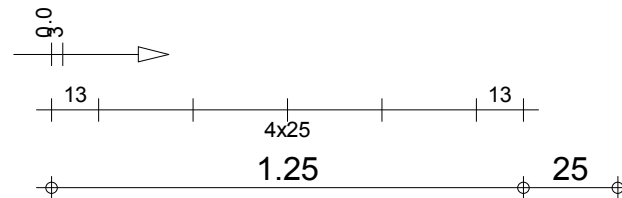


| | | | | |
|-----------------|-------------------------------|----------------------------|--|------------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.131 m ³ | Acier HA 400 = 5.19 kg |
| | | | Surface du coffrage = 1.7 m ² | Acier HA 400 = 1.44 kg |

| | | | | | | | |
|--|--------------------------------------|--|----------|--|--|--|----------|
|  | 1 MINHDU_BAMBOUTOS_POUTRES | CH16.P'R : P4 Section 20x40 | Nombre 1 | Densité = 50.61 kg/ m ³ Diamètre moyen = 8.6mm | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 4/4 |
| | | | | | | | |

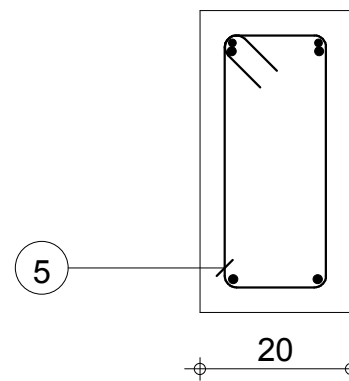
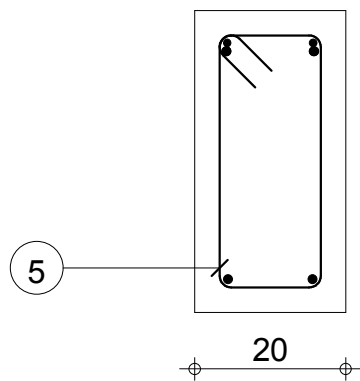


| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| ① | 2HA 12 | l=57 | 00 — 57 |
| ② | 2HA 12 | l=2.58 | 00 — 2.58 |
| ③ | 2HA 12 | l=1.34 | 00 — 1.34 |
| ④ | 2HA 10 | l=1.31 | 00 — 1.32 |
| ⑤ | 5HA 6 | l=1.08 | 31  |



A-A

B-B



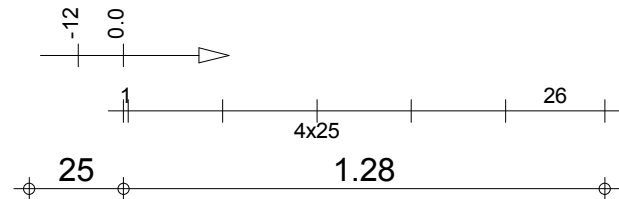
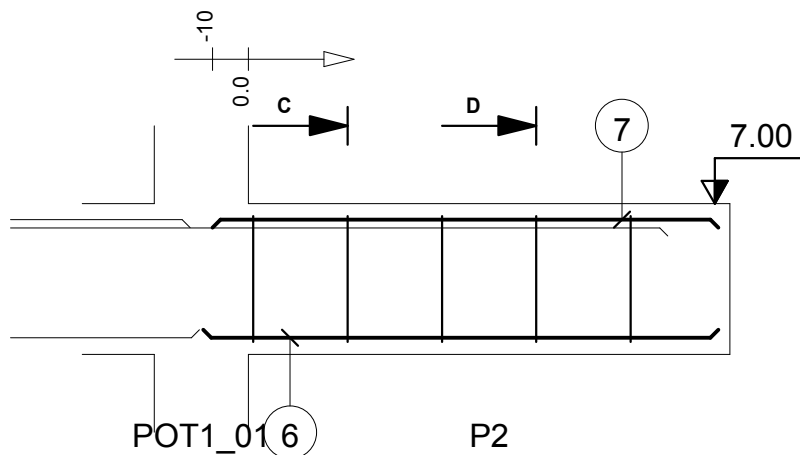
| | | | | | |
|---------------------------|--|-------------------------------|--|---|--|
| Tél. | | Fax | | Acier HA 400 = 9.59 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| Béton : BETON20 = 0.11 m3 | | Surface du coffrage = 1.43 m2 | | Acier HA 400 = 1.2 kg | |
| Densité = 98.18 kg/ m3 | | Diamètre moyen = 9.79mm | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| Enrobage latéral 3 cm | | Echelle pour la vue 1/20 | | Echelle pour la section 1/10 | |



1
MINH DU BAMBOUTOS POUTRES

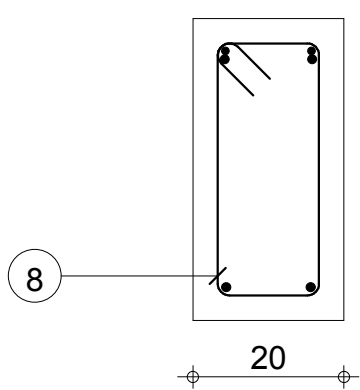
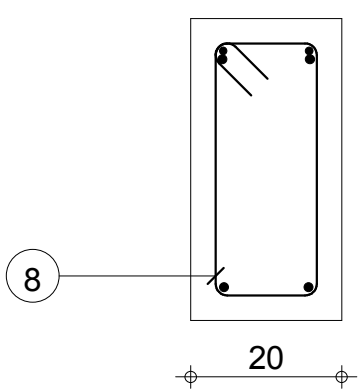
CHA.35 : P1
Section 20x40

Nombre 1



C-C

D-D

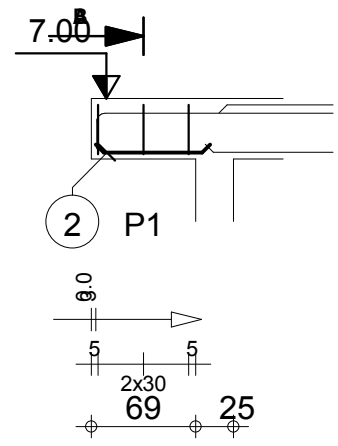


| Pos. | Armature | Code | Forme |
|------|---------------|------|---------|
| 6 | 2HA 12 l=1.37 | 00 | 1.37 |
| 7 | 2HA 10 l=1.34 | 00 | 1.34 |
| 8 | 5HA 6 l=1.08 | 31 | 14 8 |

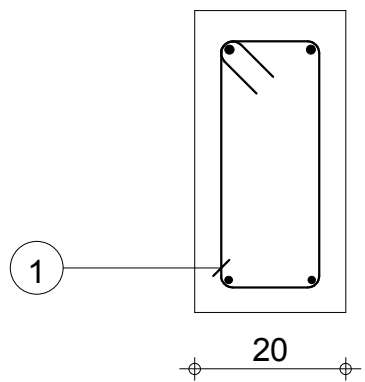
| | | | | |
|-----------------|-------------------------------|----------------------------|---|------------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.112 m ³ | Acier HA 400 = 4.08 kg |
| | | | Surface du coffrage = 1.46 m ² | Acier HA 400 = 1.2 kg |

| | | | | | | |
|---|--|----------|---|--|--|----------|
|  1 MINHDU_BAMBOUTOS_POUTRES | CHA.35 : P2 Section 20x40 | Nombre 1 | Densité = 47.05 kg/ m ³ Diamètre moyen = 8.51mm | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/20 Echelle pour la section 1/10 | Page 2/2 |
| | | | | | | |

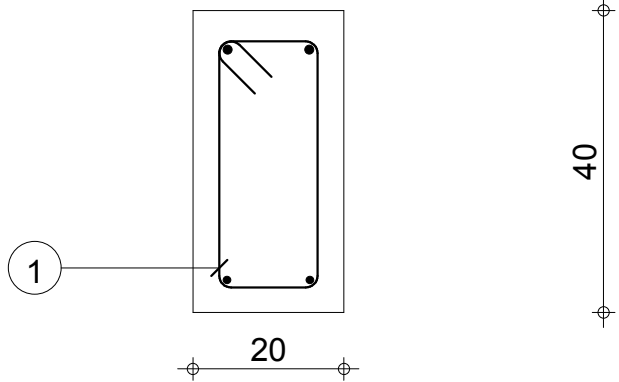
| Pos. | Armature | Code | Forme |
|------|--------------|------|-------|
| ① | 3HA 6 l=1.05 | 31 | |
| ② | 2HA 8 l=76 | 00 | |




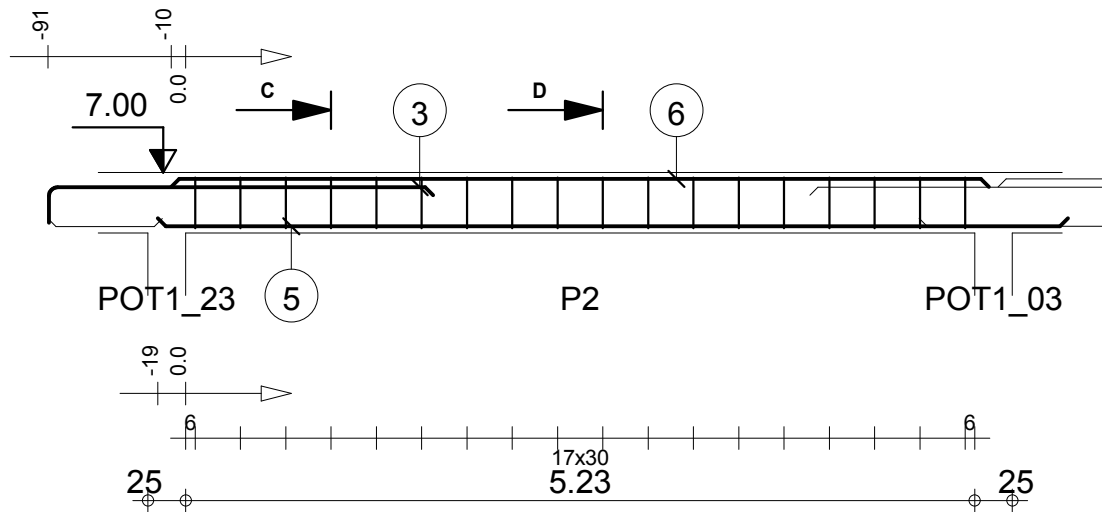
A-A



B-B

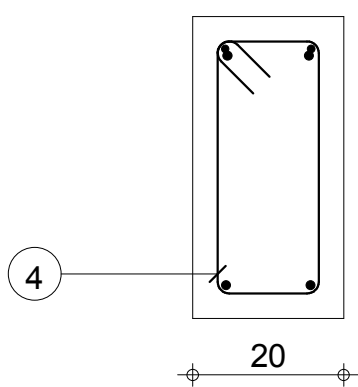


| | | | | | | | | | |
|---|---|-------------------------------|--|----------------------------|--|---|--|--|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Béton : BETON20 = 0.0653 m ³ | | Acier HA 400 = 0.597 kg | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CHB.115 : P1 Section 20x40 | | | Nombre 1 | | Surface du coffrage = 0.872 m ² | | Acier HA 400 = 0.702 kg | |
| | | | | | | Densité = 19.91 kg/ m ³ Diamètre moyen = 6.65mm | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | |

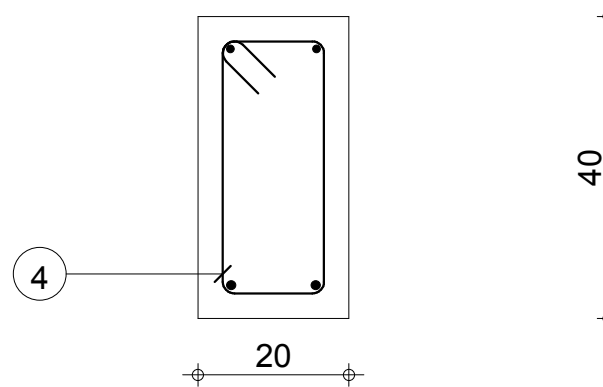


| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 3 | 2HA 12 l=2.75 | 00 | 2.55 |
| 4 | 18HA 6 l=1.08 | 31 | |
| 5 | 2HA 12 l=6.03 | 00 | 6.03 |
| 6 | 2HA 8 l=5.42 | 00 | 5.42 |

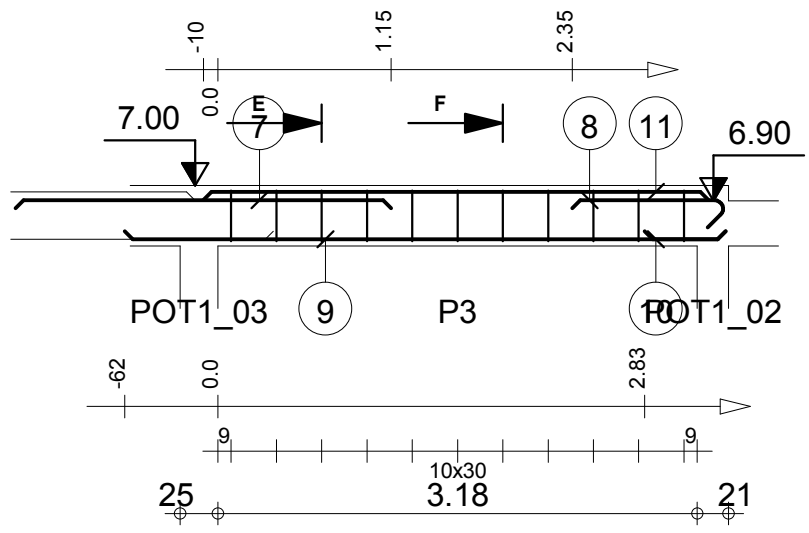
C-C



D-D



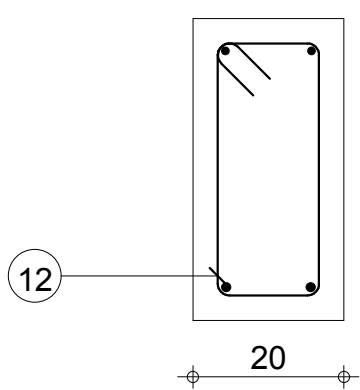
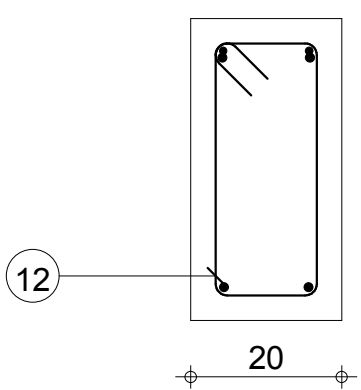
| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|---|---|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.438 m ³ | Acier HA 400 = 19.9 kg |
| 1 | | CHB.115 : P2 | | Reprise de bétonnage : Non | | Surface du coffrage = 5.42 m ² | Acier HA 400 = 4.31 kg |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 55.25 kg/ m ³ | Enrobage inférieur 3 cm Enrobage supérieur 3 cm |
| PRO | | | | | | Diamètre moyen = 8.66mm | Enrobage latéral 3 cm |
| | | | | | | Echelle pour la vue 1/50 | Page 2/4 |
| | | | | | | Echelle pour la section 1/10 | |



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 7 | 2HA 12 l=2.49 | 00 | 2.49 |
| 8 | 2HA 12 l=1.20 | 00 | 1.01 |
| 9 | 2HA 12 l=3.98 | 00 | 3.98 |
| 10 | 2HA 12 l=54 | 00 | 54 |
| 11 | 2HA 8 l=3.34 | 00 | 3.34 |
| 12 | 11HA 6 l=1.08 | 31 | |

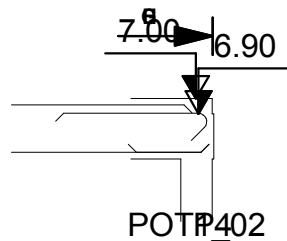
E-E

F-F



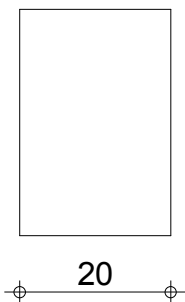
| | | | | |
|-----------------|-------------------------------|----------------------------|---|------------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.272 m ³ | Acier HA 400 = 17.2 kg |
| | | | Surface du coffrage = 3.36 m ² | Acier HA 400 = 2.63 kg |

| | | | | |
|--|--------------------------------------|---|----------|---|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHB.115 : P3 Section 20x40 | Nombre 1 | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | Densité = 72.79 kg/ m ³ Diamètre moyen = 9.2mm |

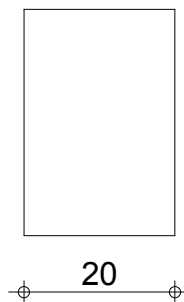



21

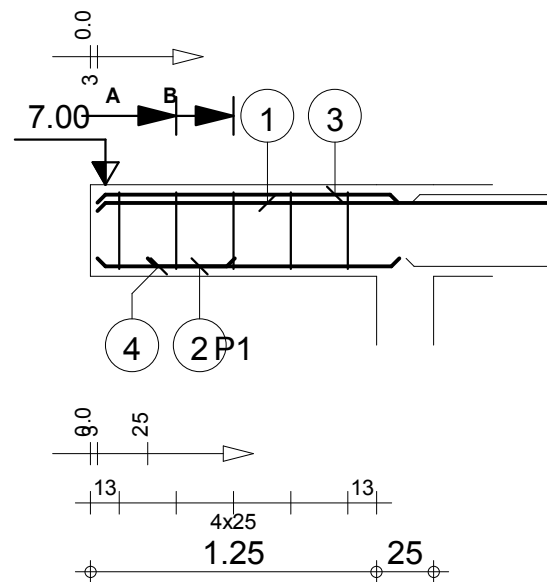
G-G



H-H

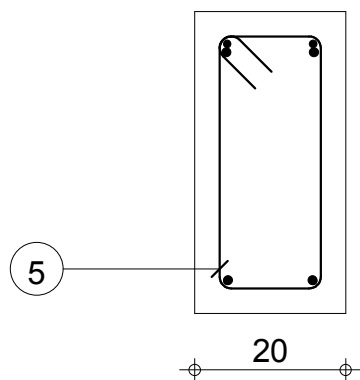


| | | | | | |
|---|---|-------------------------------|-----|--|--|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CHB.115 : P4 Section 20x30 | | | Béton : BETON20 = 0.0089 m ³ | |
| | | | | Surface du coffrage = 0.151 m ² | |
| | | | | Echelle pour la vue 1/50 Echelle pour la section 1/10 | |
| | | | | Page 4/4 | |

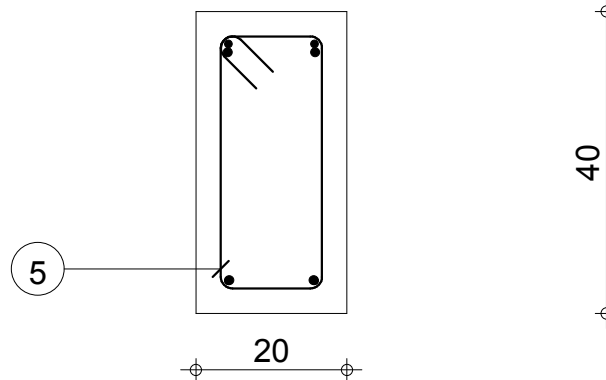


| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=2.59 | 00 | 2.59 |
| ② | 2HA 12 l=60 | 00 | 60 |
| ③ | 2HA 10 l=1.31 | 00 | 1.32 |
| ④ | 2HA 10 l=1.10 | 00 | 1.10 |
| ⑤ | 5HA 6 l=1.08* | 31 | |

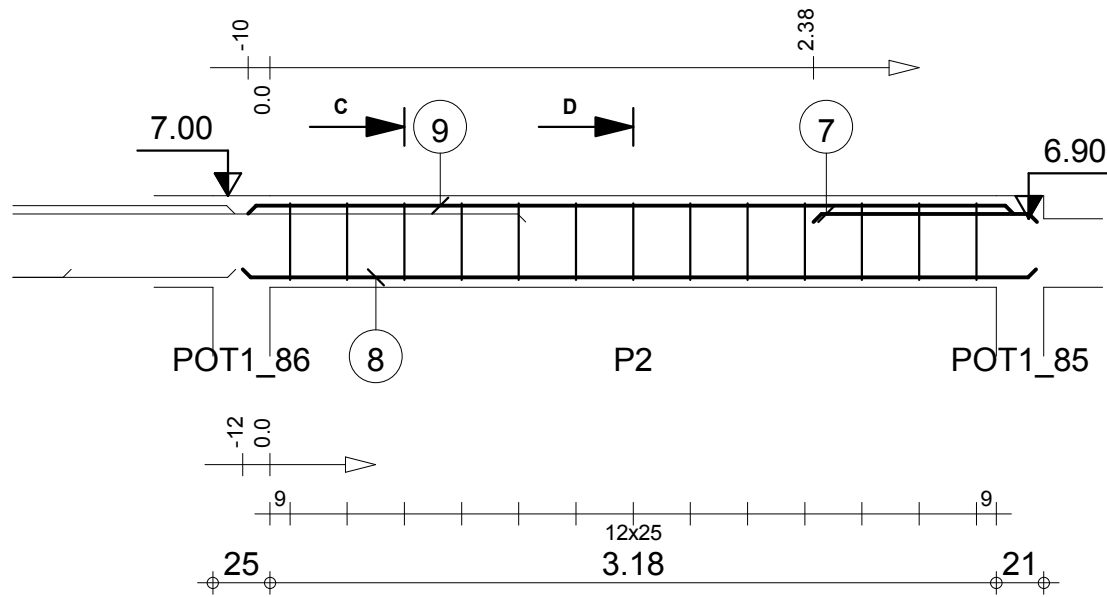
A-A



B-B



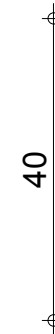
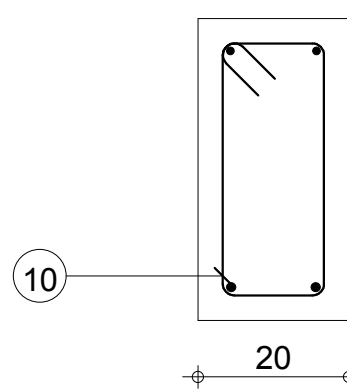
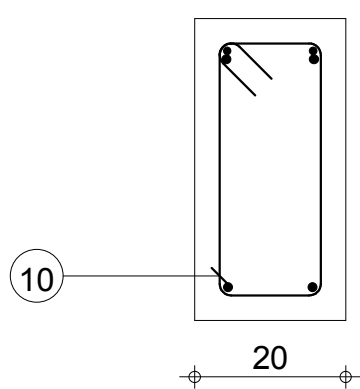
| | | | | | |
|-----------------|--------------------------------------|---|--|--|--|
| Tél. | | Fax | | Acier HA 400 = 8.64 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHE.14 : P1 Section 20x40 | | Béton : BETON20 = 0.11 m3 Surface du coffrage = 1.43 m2 | |
| | | | | Acier HA 400 = 1.19 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | |
| | | Densité = 89.36 kg/ m3 Diamètre moyen = 9.47mm | | Echelle pour la vue 1/33 Echelle pour la section 1/10 | |
| | | | | Page 1/3 | |



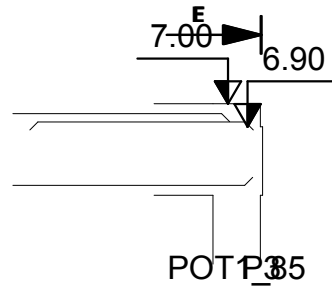
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 7 | 2HA 12 l=98 | 00 | 98 |
| 8 | 2HA 12 l=3.47 | 00 | 3.47 |
| 9 | 2HA 10 l=3.34 | 00 | 3.34 |
| 10 | 13HA 6 l=1.08 | 31 | |

C-C

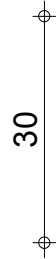
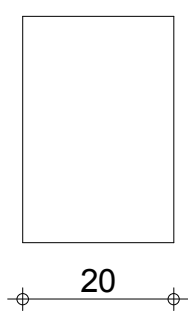
D-D



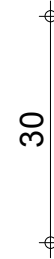
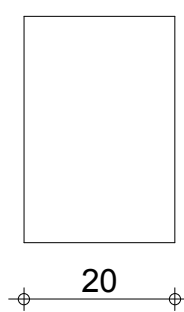
| | | | | | | | |
|--------------------------|--|-------------------------------|--|---|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Acier HA 400 = 12 kg | |
| 1 | | CHE.14 : P2 | | Nombre 1 | | Acier HA 400 = 3.11 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Béton : BETON20 = 0.272 m ³ | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| PRO | | | | Surface du coffrage = 3.36 m ² | | Enrobage latéral 3 cm | |
| | | | | Densité = 55.51 kg/ m ³ | | Echelle pour la vue 1/33 | |
| | | | | Diamètre moyen = 8.71mm | | Echelle pour la section 1/10 | |
| | | | | | | Page 2/3 | |




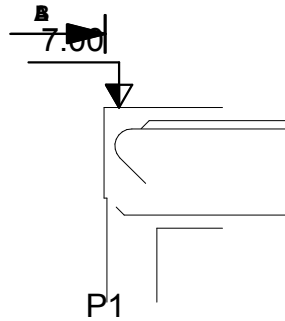
E-E



F-F

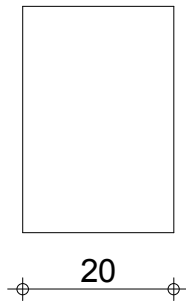


| | | | | | |
|--|--|-------------------------------|-----|--|--|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINH DU_BAMBOUTOS_POUTRES | CHE.14 : P3 Section 20x30 | | | Béton : BETON20 = 0.0089 m ³ | |
| | | | | Surface du coffrage = 0.151 m ² | |
| | | | | Echelle pour la vue 1/33 Echelle pour la section 1/10 | |
| | | | | Page 3/3 | |

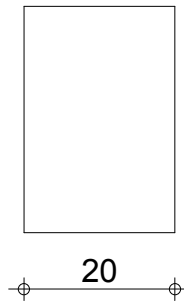



1 17

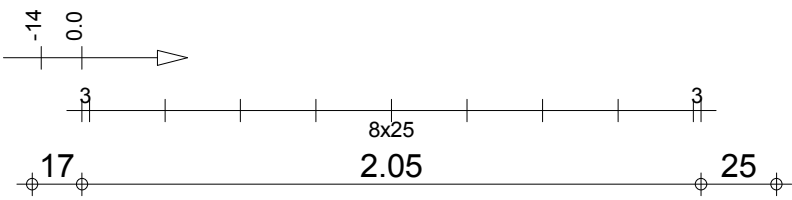
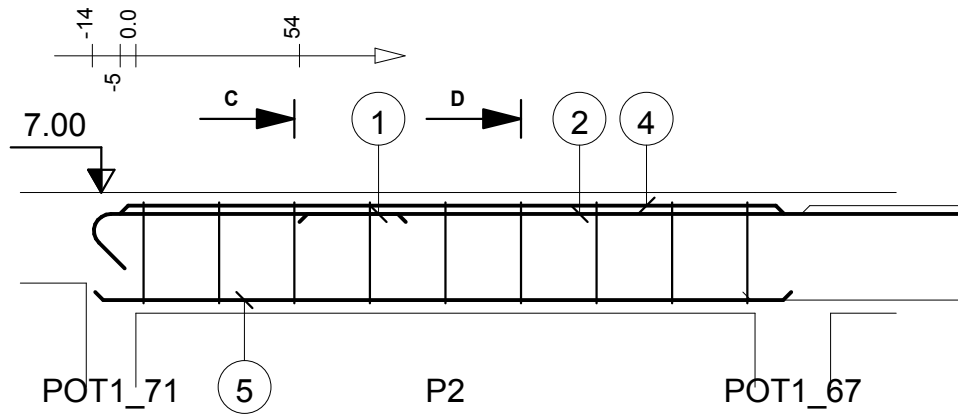
A-A



B-B

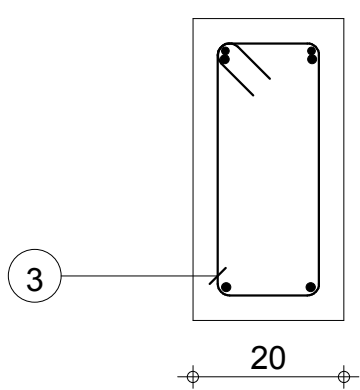
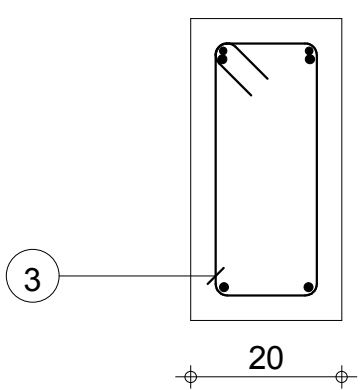


| | | | | | |
|---|--|-------------------------------|-----|--|-----------------|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CHG.1014 : P1 Section 20x30 | | | Béton : BETON20 = 0.00885 m3 | |
| | | | | Surface du coffrage = 0.151 m2 | |
| | | | | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 1/5 |



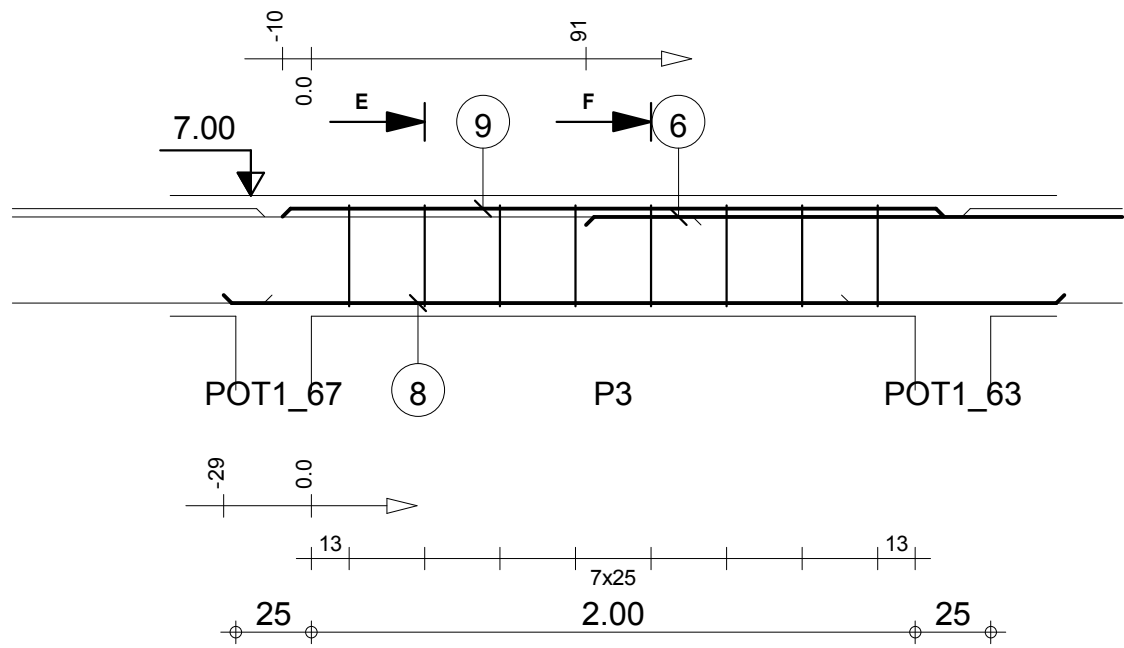
C-C


D-D



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=1.23 | 00 | 1.04 |
| ② | 2HA 12 l=3.05 | 00 | 3.05 |
| ③ | 9HA 6 l=1.08 | 31 | 14/8 |
| ④ | 2HA 10 l=2.20 | 00 | 2.20 |
| ⑤ | 2HA 12 l=2.31 | 00 | 2.31 |

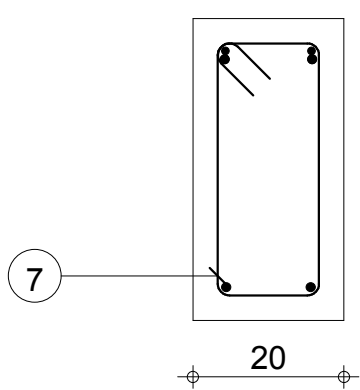
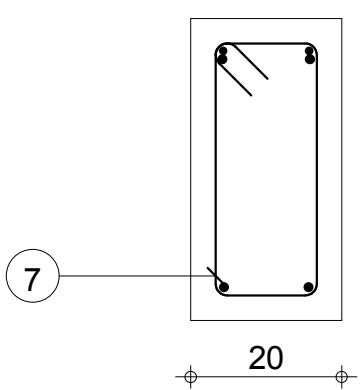
| | | | | | | | |
|--------------------------|--|-------------------------------|--|--|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Acier HA 400 = 14.4 kg | |
| 1 | | CHG.1014 : P2 | | Nombre 1 | | Acier HA 400 = 2.15 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Béton : BETON20 = 0.182 m ³ | | Surface du coffrage = 2.23 m ² | |
| PRO | | | | Densité = 90.66 kg/ m ³ | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | | | Diamètre moyen = 9.54mm | | Enrobage latéral 3 cm | |
| | | | | | | Echelle pour la vue 1/25 | |
| | | | | | | Echelle pour la section 1/10 | |
| | | | | | | Page 2/5 | |



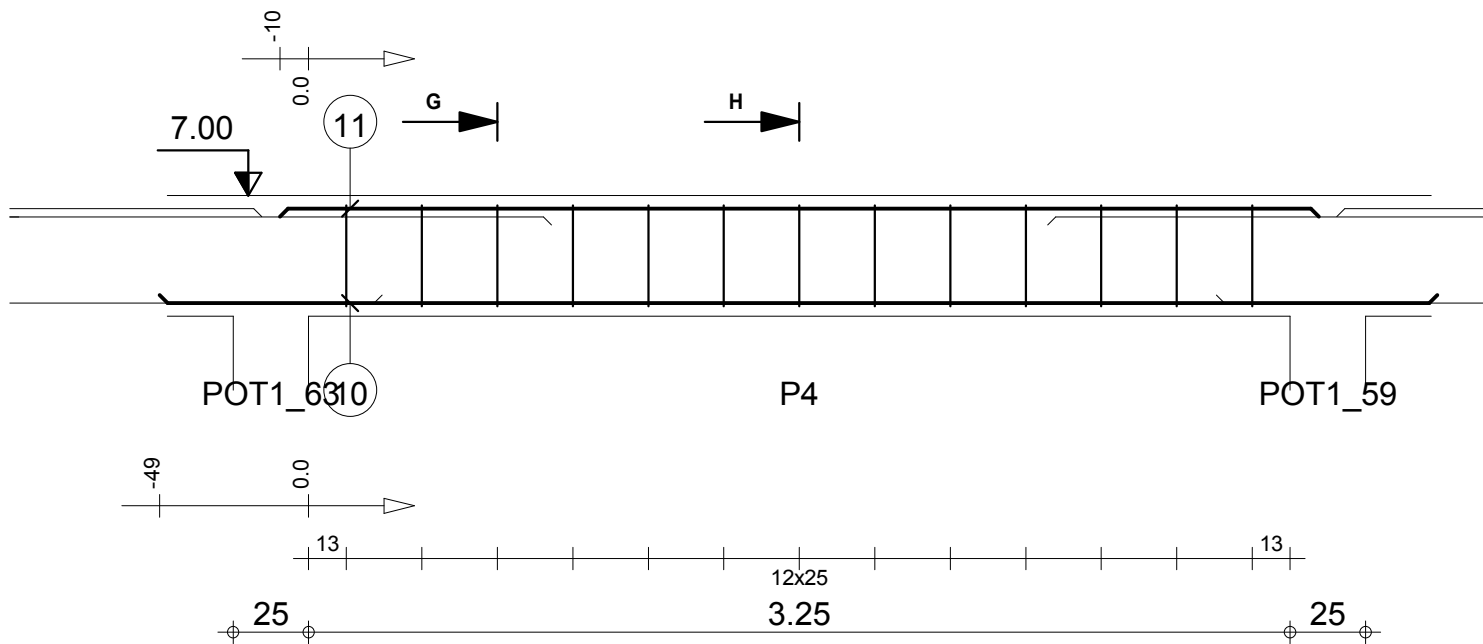
| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 6 | 2HA 12 | l=2.14 | 00 — 2.14 |
| 7 | 8HA 6 | l=1.08 | 31  |
| 8 | 2HA 12 | l=2.78 | 00 — 2.78 |
| 9 | 2HA 10 | l=2.19 | 00 — 2.19 |

E-E

F-F



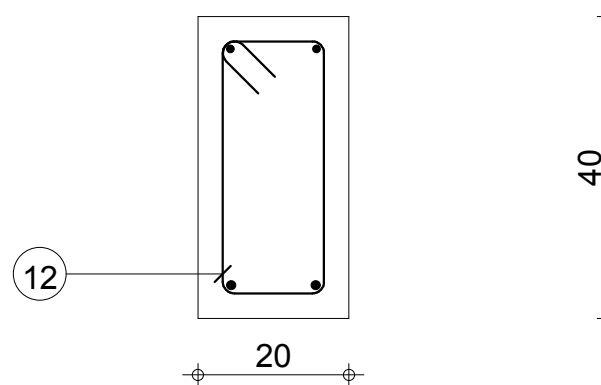
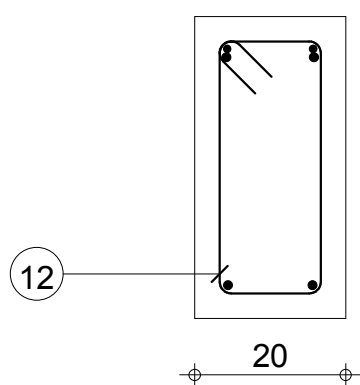
| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|------------------------------|---|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.18 m3 | Acier HA 400 = 11.5 kg |
| 1 | | CHG.1014 : P3 | | Reprise de bétonnage : Non | | Surface du coffrage = 2.2 m2 | Acier HA 400 = 1.91 kg |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Densité = 74.44 kg/ m3 | Enrobage inférieur 3 cm Enrobage supérieur 3 cm |
| PRO | | | | | | Diamètre moyen = 9.35mm | Enrobage latéral 3 cm |
| | | | | | | Echelle pour la vue 1/25 | Page 3/5 |
| | | | | | | Echelle pour la section 1/10 | |



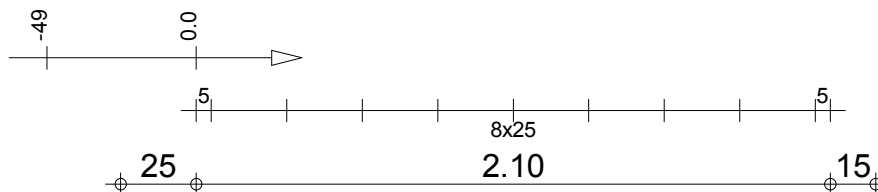
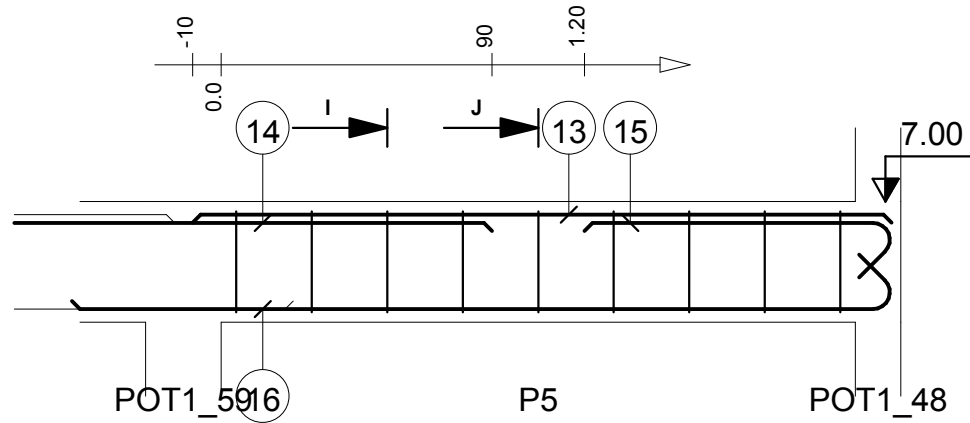
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 10 | 2HA 12 l=4.23 | 00 | 4.23 |
| 11 | 2HA 10 l=3.44 | 00 | 3.44 |
| 12 | 13HA 6 l=1.08 | 31 | |

G-G

H-H

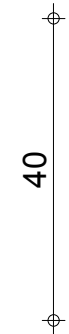
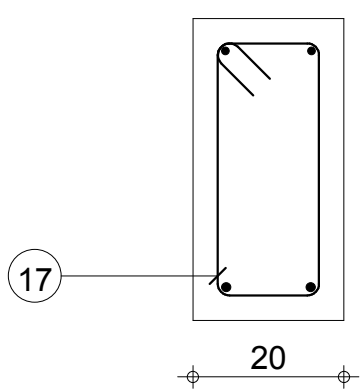
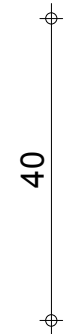
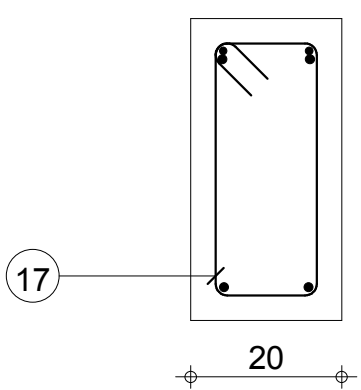


| | | | | | |
|-----------------|--------------------------------------|---|--|--|--|
| Tél. | | Fax | | Acier HA 400 = 11.8 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHG.1014 : P4 Section 20x40 | | Béton : BETON20 = 0.28 m3 Surface du coffrage = 3.45 m2 | |
| | | | | Acier HA 400 = 3.11 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | |
| | | Densité = 53.21 kg/ m3 Diamètre moyen = 8.67mm | | Echelle pour la vue 1/25 Echelle pour la section 1/10 | |
| | | Nombre 1 | | Page 4/5 | |



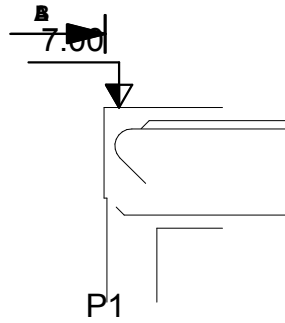
I-I

J-J



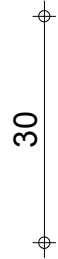
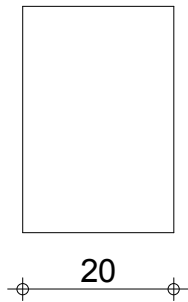
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 13 | 2HA 10 l=2.31 | 00 | 2.32 |
| 14 | 2HA 12 l=1.95 | 00 | 1.95 |
| 15 | 2HA 12 l=1.21 | 00 | 1.02 |
| 16 | 2HA 12 l=2.90 | 00 | 2.71 |
| 17 | 9HA 6 l=1.08 | 31 | |

| | | | | | | | |
|--|--------------------------------------|--|----------|---|--|----------------------------|------------------------------|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHG.1014 : P5 Section 20x40 | Nombre 1 | Tél. | Fax | Béton : BETON20 = 0.19 m3 | Acier HA 400 = 13.6 kg |
| | | | | Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Surface du coffrage = 2.4 m2 |
| | | | | Densité = 83.16 kg/ m3 Diamètre moyen = 9.45mm | Echelle pour la vue 1/25 Echelle pour la section 1/10 | | Page 5/5 |

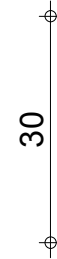
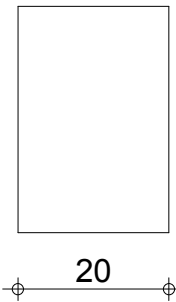



1 17

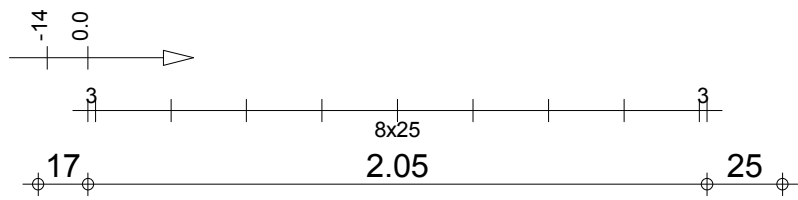
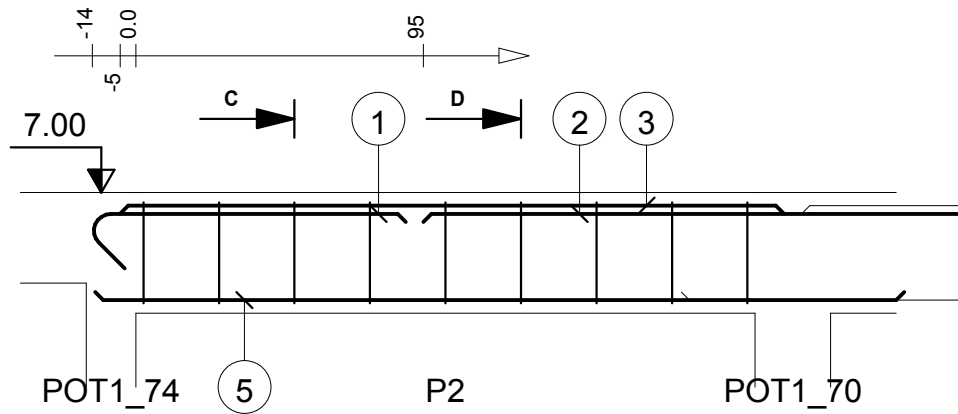
A-A



B-B

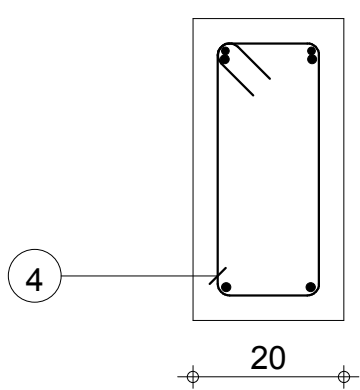
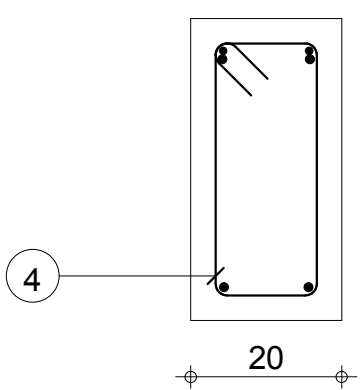


| | | | | | |
|---|--|-------------------------------|-----|--|-----------------|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CHM.1014 : P1 Section 20x30 | | | Béton : BETON20 = 0.00885 m3 | |
| | | | | Surface du coffrage = 0.151 m2 | |
| | | | | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 1/5 |



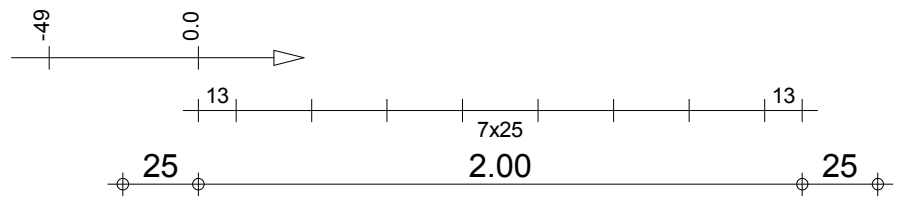
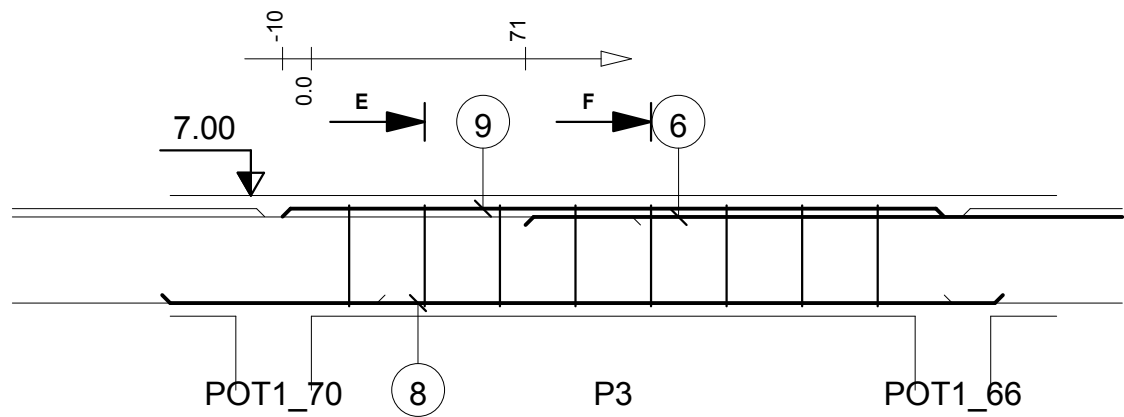
C-C

D-D



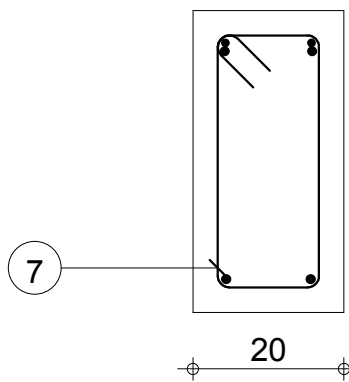
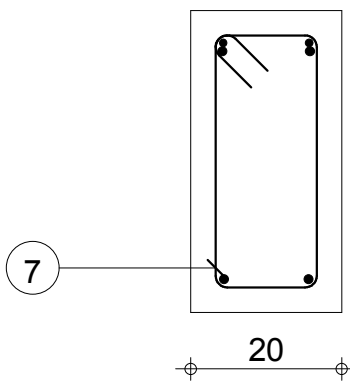
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=1.23 | 00 | 1.04 |
| ② | 2HA 12 l=2.44 | 00 | 2.44 |
| ③ | 2HA 10 l=2.20 | 00 | 2.20 |
| ④ | 9HA 6 l=1.08 | 31 | |
| ⑤ | 2HA 12 l=2.68 | 00 | 2.68 |

| | | | | | | | |
|--------------------------|--|-------------------------------|--|--|--|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | | Acier HA 400 = 14 kg | |
| 1 | | CHM.1014 : P2 | | Nombre 1 | | Acier HA 400 = 2.15 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Béton : BETON20 = 0.182 m ³ | | Surface du coffrage = 2.23 m ² | |
| PRO | | | | Densité = 88.46 kg/ m ³ | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | | | Diamètre moyen = 9.5mm | | Enrobage latéral 3 cm | |
| | | | | | | Echelle pour la vue 1/25 | |
| | | | | | | Echelle pour la section 1/10 | |
| | | | | | | Page 2/5 | |



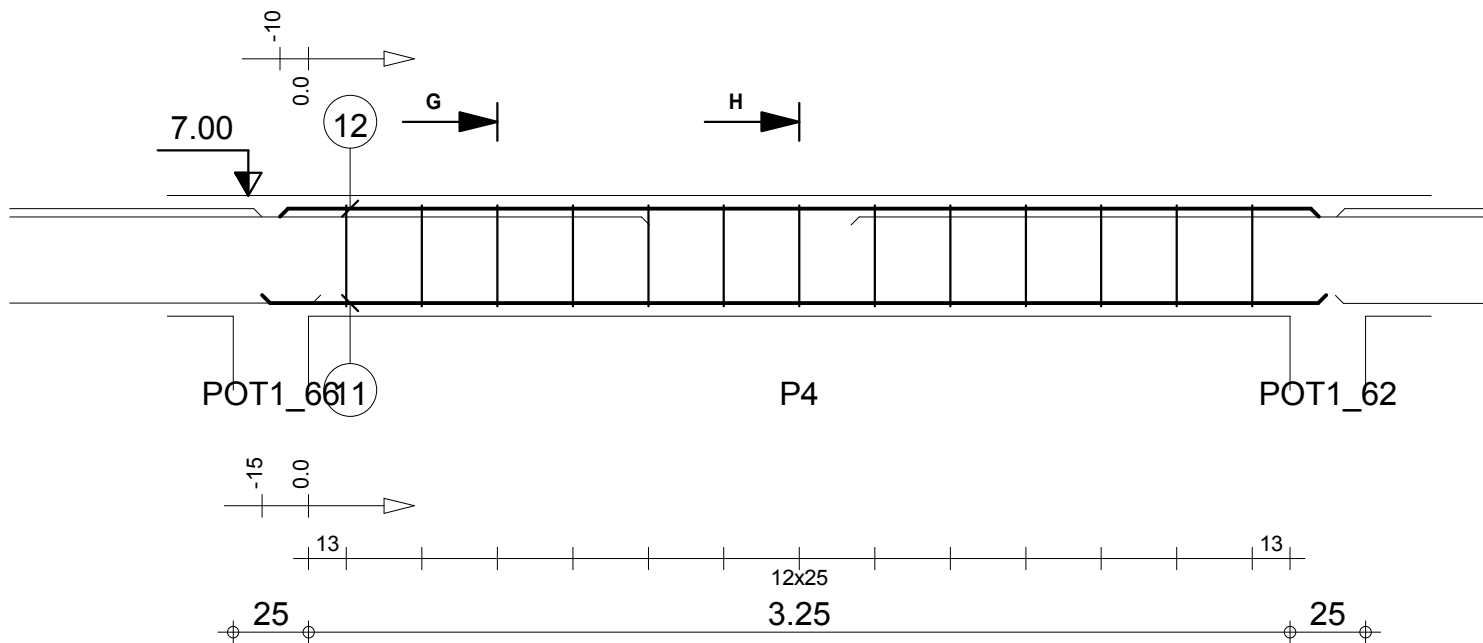
E-E




F-F



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 6 | 2HA 12 l=2.67 | 00 | 2.67 |
| 7 | 8HA 6 l=1.08 | 31 | |
| 8 | 2HA 12 l=2.78 | 00 | 2.78 |
| 9 | 2HA 10 l=2.19 | 00 | 2.19 |

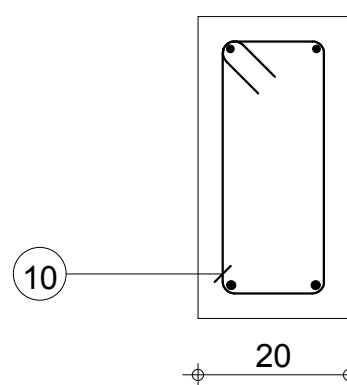
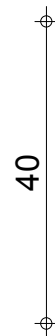
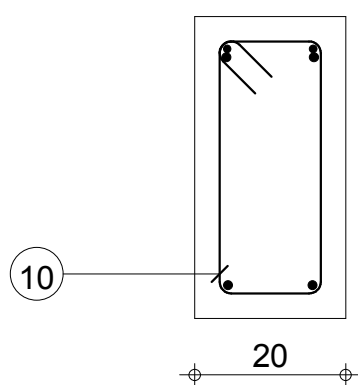
| | | | | | | | |
|--|--------------------------------------|--|----------|---|--|--|------------------------------|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHM.1014 : P3 Section 20x40 | Nombre 1 | Tél. | Fax | Béton : BETON20 = 0.18 m3 | Acier HA 400 = 12.4 kg |
| | | | | Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Surface du coffrage = 2.2 m2 |
| | | | | Densité = 79.44 kg/ m3 Diamètre moyen = 9.47mm | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 3/5 |



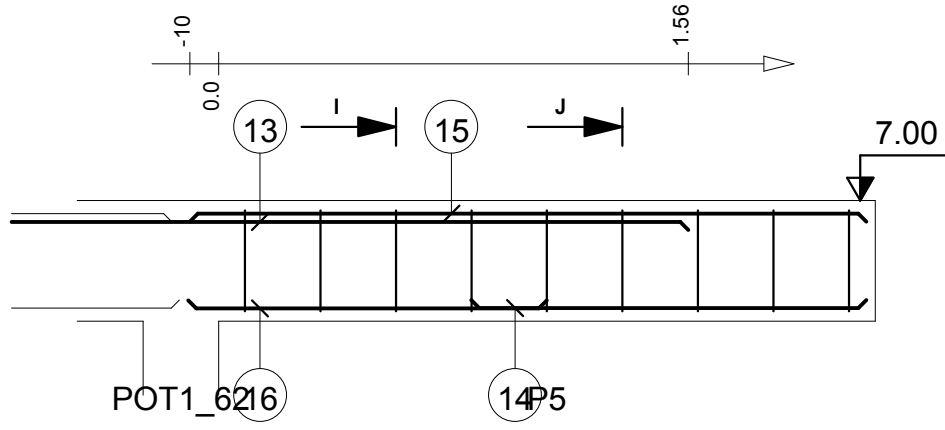
| Pos. | Armature | Code | Forme |
|------|----------|--------|--|
| 10 | 13HA 6 | l=1.08 | 31  |
| 11 | 2HA 12 | l=3.52 | 00  |
| 12 | 2HA 10 | l=3.44 | 00  |

G-G

H-H

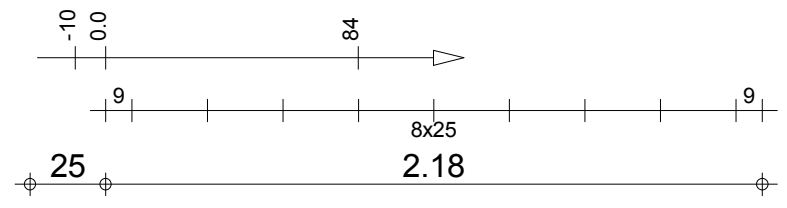


| | | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|-------------------------------|------------------------------|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Béton : BETON20 = 0.28 m3 | Acier HA 400 = 10.5 kg | |
| 1 | | CHM.1014 : P4 | | Reprise de bétonnage : Non | | Surface du coffrage = 3.45 m2 | Acier HA 400 = 3.11 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Enrobage inférieur 3 cm | Enrobage supérieur 3 cm | |
| PRO | | | | | | Densité = 48.57 kg/ m3 | Echelle pour la vue 1/25 | |
| | | | | | | Diamètre moyen = 8.5mm | Echelle pour la section 1/10 | |
| | | | | | | | Page 4/5 | |



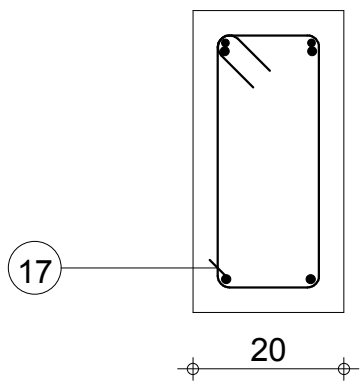
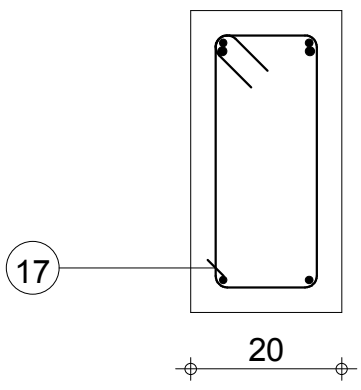
POT1_6216

14P5



I-I

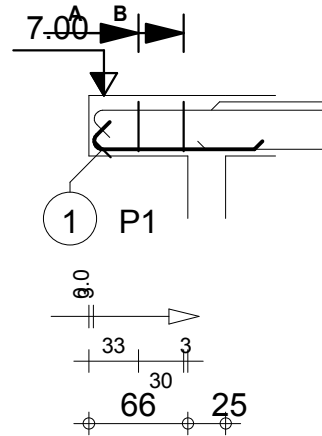
J-J



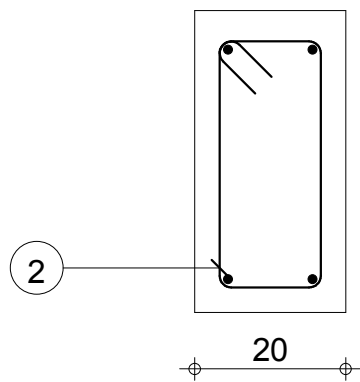
| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 13 | 2HA 12 l=3.26 | 00 | 3.26 |
| 14 | 2HA 12 l=1.31 | 00 | 1.31 |
| 15 | 2HA 10 l=2.24 | 00 | 2.24 |
| 16 | 2HA 10 l=1.19 | 00 | 1.19 |
| 17 | 9HA 6 l=1.08* | 31 | |

| | | | | | | | |
|--|--------------------------------------|--|----------|--|--|--|--|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHM.1014 : P5 Section 20x40 | Nombre 1 | Tél. | Fax | Béton : BETON20 = 0.184 m ³ Surface du coffrage = 2.35 m ² Densité = 78.8 kg/ m ³ Diamètre moyen = 9.2mm | Acier HA 400 = 12.3 kg Acier HA 400 = 2.15 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non | Echelle pour la vue 1/25 Echelle pour la section 1/10 | Page 5/5 | |

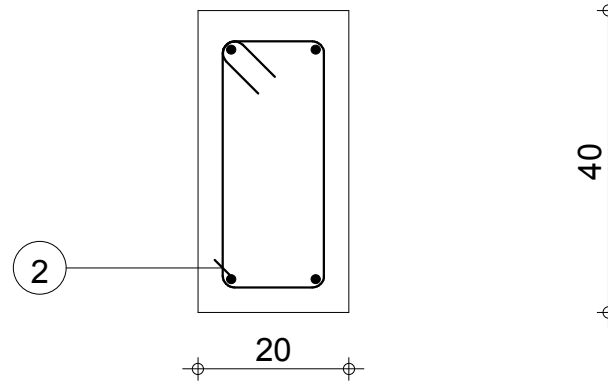
| Pos. | Armature | Code | Forme |
|------|----------|--------|--------------|
| ① | 2HA 12 | I=1.31 | 00 1.12 |
| ② | 2HA 6 | I=1.06 | 31 14 8 |



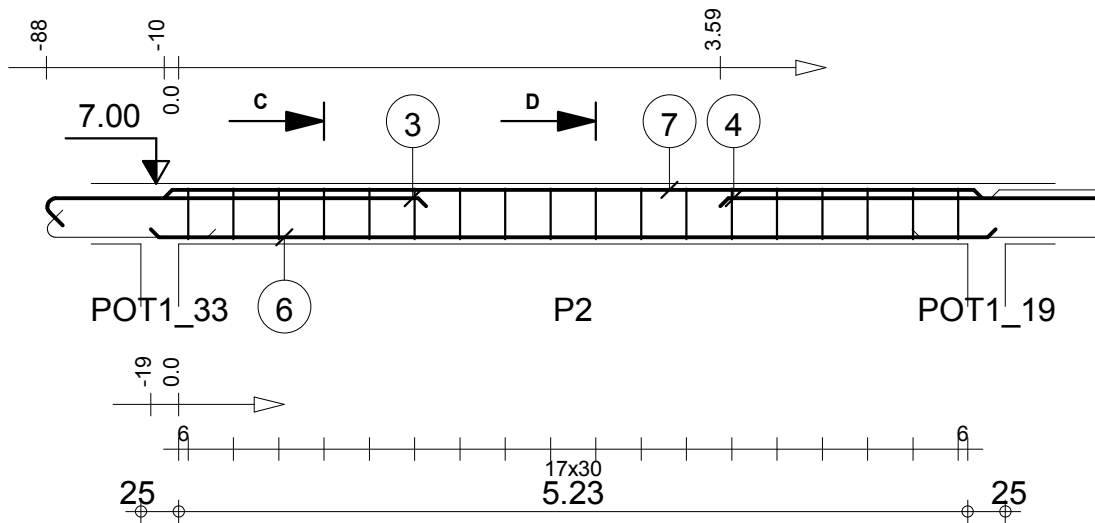
A-A



B-B

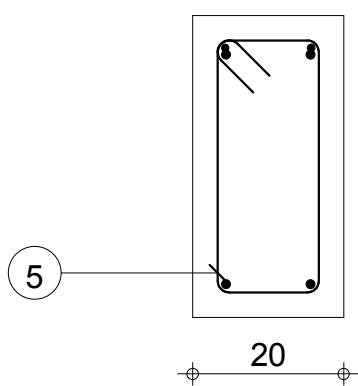


| | | | | | |
|--------------------------------------|---|-------------------------------|---|----------------------------|--|
| Tél. | | Fax | | Acier HA 400 = 2.33 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| 1 MINHDU_BAMBOUTOS_POUTRES | CHR.116 : P1 Section 20x40 | | Nombre 1 Béton : BETON20 = 0.0625 m ³ Surface du coffrage = 0.836 m ² Densité = 44.8 kg/ m ³ Diamètre moyen = 9.31mm | | Acier HA 400 = 0.471 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm |
| | | | | | Echelle pour la vue 1/50 Echelle pour la section 1/10 |

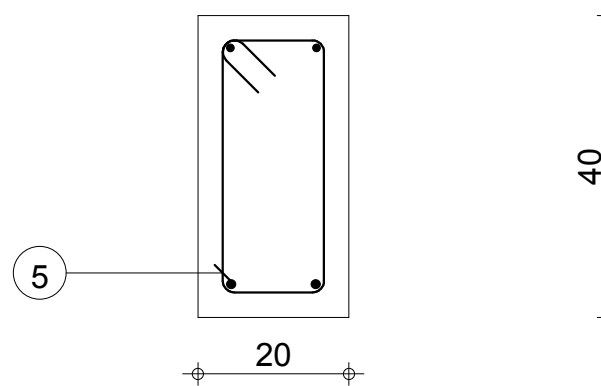


| Pos. | Armature | Code | Forme |
|------|---------------|------|---------|
| 3 | 2HA 12 l=2.70 | 00 | 2.51 |
| 4 | 2HA 12 l=3.04 | 00 | 3.03 |
| 5 | 18HA 6 l=1.08 | 31 | 14 8 |
| 6 | 2HA 12 l=5.59 | 00 | 5.60 |
| 7 | 2HA 8 l=5.42 | 00 | 5.42 |

C-C



D-D



| | | | | | | | |
|--------------------------|--|-------------------------------|--|----------------------------|-----|---|--|
| Tenu au feu 0h | | Fissuration peu préjudiciable | | Tél. | Fax | Acier HA 400 = 24.4 kg | |
| 1 | | CHR.116 : P2 | | Reprise de bétonnage : Non | | Acier HA 400 = 4.31 kg | |
| MINHDU_BAMBOUTOS_POUTRES | | Section 20x40 | | Nombre 1 | | Béton : BETON20 = 0.438 m ³ | |
| | | | | | | Surface du coffrage = 5.42 m ² | |
| | | | | | | Enrobage inférieur 3 cm Enrobage supérieur 3 cm | |
| | | | | | | Enrobage latéral 3 cm | |
| | | | | | | Densité = 65.53 kg/ m ³ | |
| | | | | | | Echelle pour la vue 1/50 | |
| | | | | | | Echelle pour la section 1/10 | |
| | | | | | | Page 2/4 | |



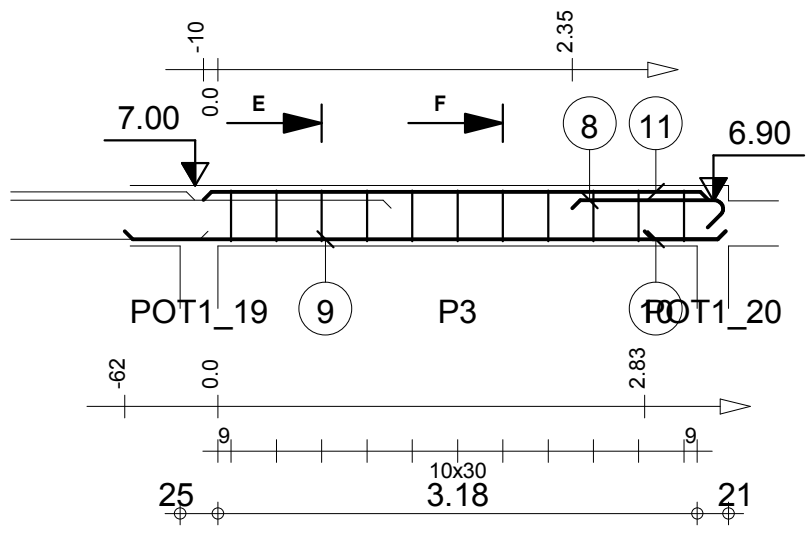
1
MINH DU_BAMBOUTOS_POUTRES

CHR.116 : P2
Section 20x40

Nombre 1

Béton : BETON20 = 0.438 m³
Surface du coffrage = 5.42 m²
Densité = 65.53 kg/ m³
Diamètre moyen = 8.98mm

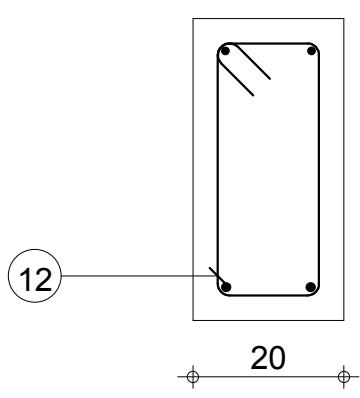
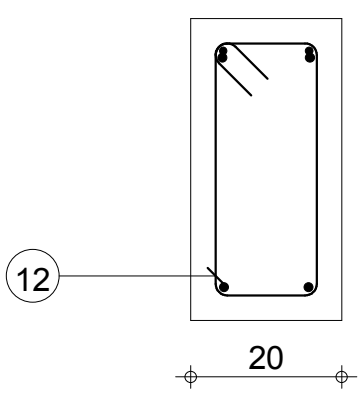
Acier HA 400 = 24.4 kg
Acier HA 400 = 4.31 kg
Enrobage inférieur 3 cm Enrobage supérieur 3 cm
Enrobage latéral 3 cm
Echelle pour la vue 1/50
Echelle pour la section 1/10



| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| 8 | 2HA 12 l=1.20 | 00 | 1.01 |
| 9 | 2HA 12 l=3.98 | 00 | 3.98 |
| 10 | 2HA 12 l=54 | 00 | 54 |
| 11 | 2HA 8 l=3.34 | 00 | 3.34 |
| 12 | 11HA 6 l=1.08 | 31 | 14/8 |

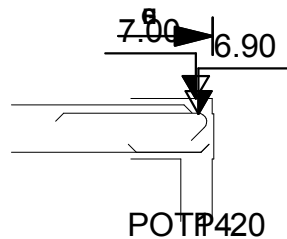
E-E

F-F



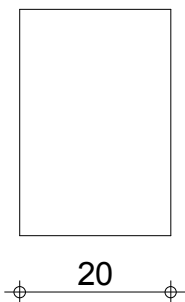
| | | | | |
|-----------------|-------------------------------|----------------------------|---|------------------------|
| Tenue au feu 0h | Fissuration peu préjudiciable | Reprise de bétonnage : Non | Béton : BETON20 = 0.272 m ³ | Acier HA 400 = 12.8 kg |
| | | | Surface du coffrage = 3.36 m ² | Acier HA 400 = 2.63 kg |

| | | | | | | | |
|--|--------------------------------------|---|----------|---|--|--|----------|
| | 1 MINHDU_BAMBOUTOS_POUTRES | CHR.116 : P3 Section 20x40 | Nombre 1 | Densité = 56.62 kg/ m ³ Diamètre moyen = 8.73mm | Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/50 Echelle pour la section 1/10 | Page 3/4 |
|--|--------------------------------------|---|----------|---|--|--|----------|

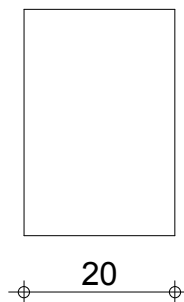



21

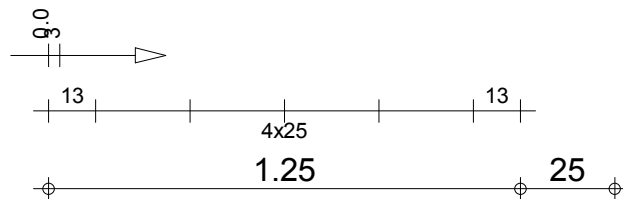
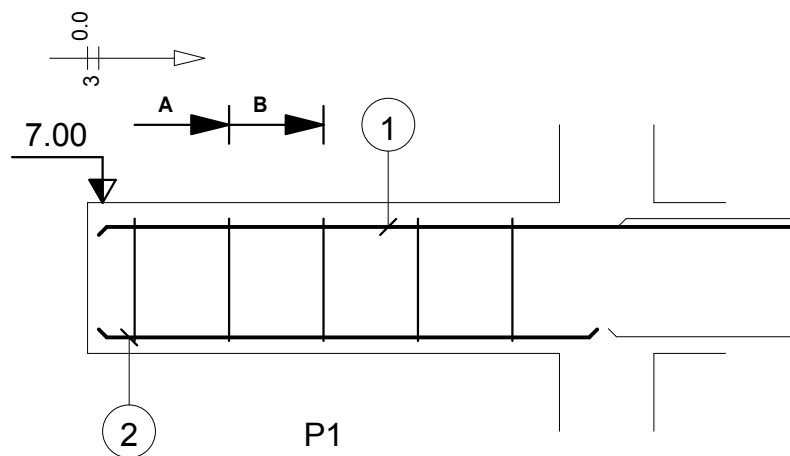
G-G



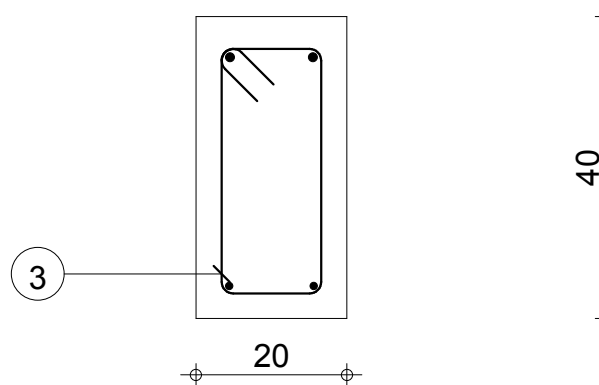
H-H



| | | | | | |
|---|---|-------------------------------|-----|--|--|
| | | Tél. | Fax | | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
|  1 MINHDU_BAMBOUTOS_POUTRES | CHR.116 : P4 Section 20x30 | | | Béton : BETON20 = 0.0089 m ³ | |
| | | | | Surface du coffrage = 0.151 m ² | |
| | | | | Echelle pour la vue 1/50 Echelle pour la section 1/10 | |
| | | | | Page 4/4 | |

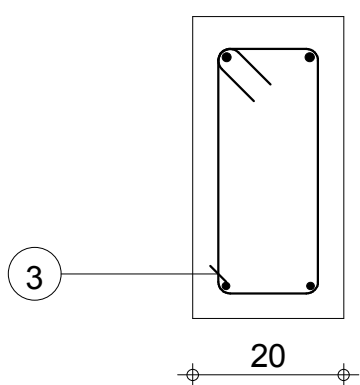


B-B

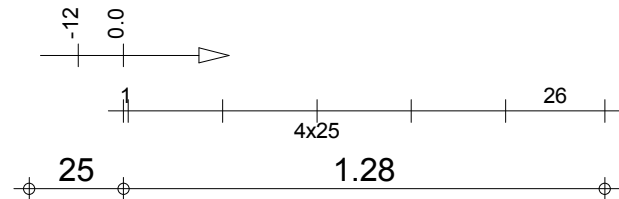
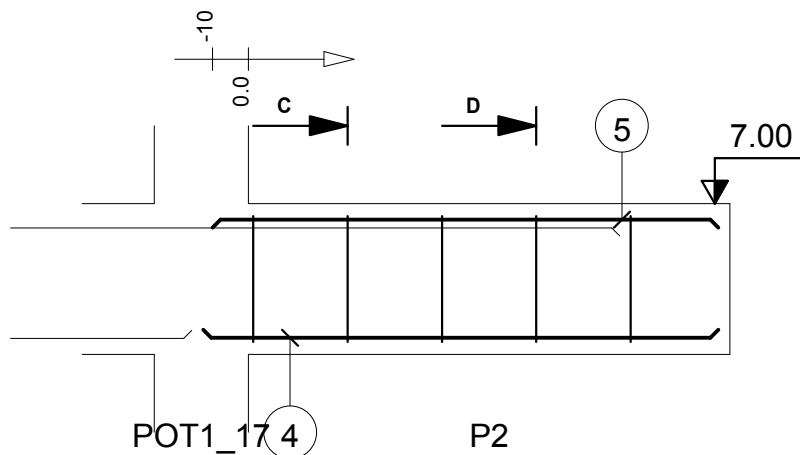


| Pos. | Armature | Code | Forme |
|------|---------------|------|-------|
| ① | 2HA 12 l=2.45 | 00 | 2.45 |
| ② | 2HA 10 l=1.32 | 00 | 1.32 |
| ③ | 5HA 6 l=1.05 | 31 | |

A-A

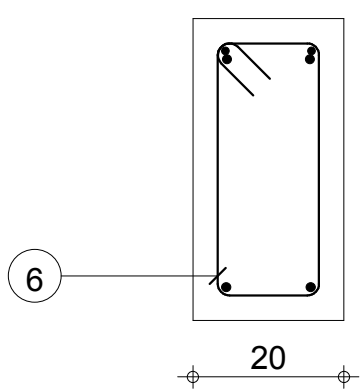
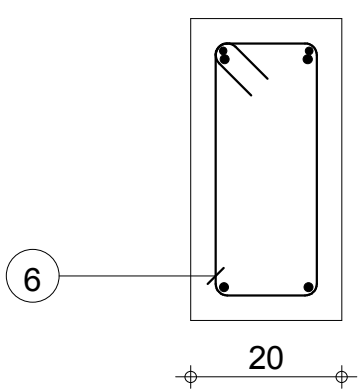


| | | | | | |
|-----------------|---------------------------------------|--|--|--|--|
| Tél. | | Fax | | Acier HA 400 = 5.98 kg | |
| Tenue au feu 0h | | Fissuration peu préjudiciable | | Reprise de bétonnage : Non | |
| | 1 MINH DU_BAMBOUTOS_POUTRES | CHS.35 : P1 | | Béton : BETON20 = 0.11 m3 Surface du coffrage = 1.43 m2 | |
| | | Section 20x40 | | Acier HA 400 = 1.17 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | |
| | | Densité = 65 kg/ m3 Diamètre moyen = 9.12mm | | Echelle pour la vue 1/20 Echelle pour la section 1/10 | |
| | | Nombre 1 | | Page 1/2 | |




C-C

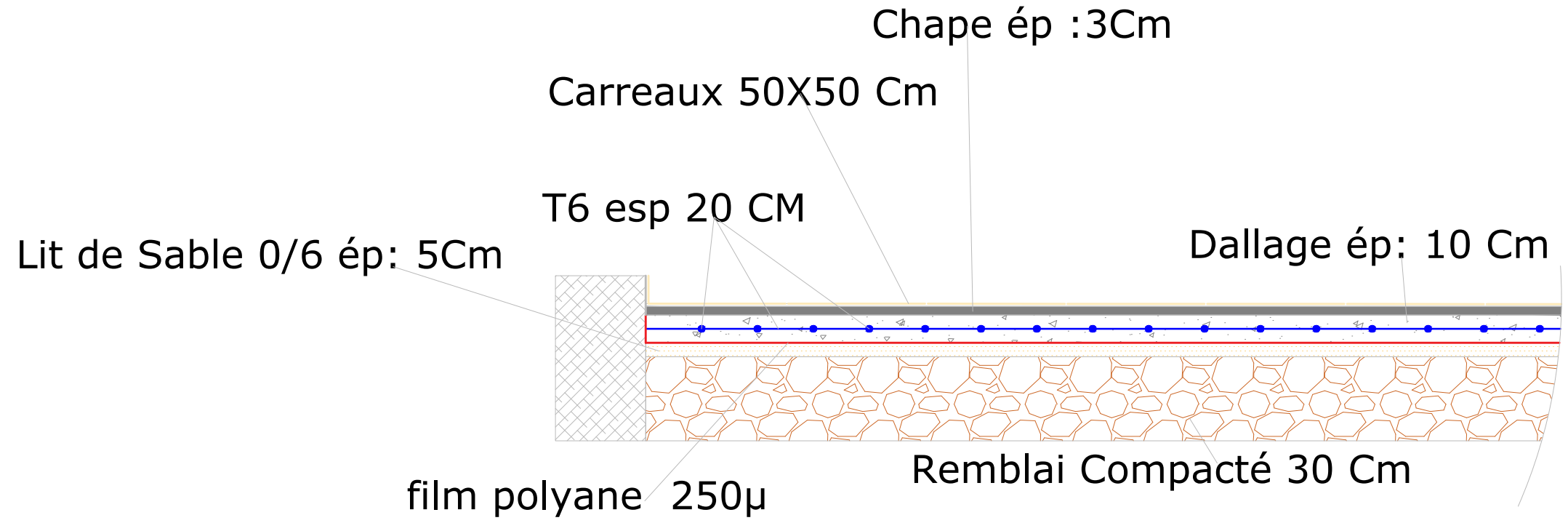
D-D



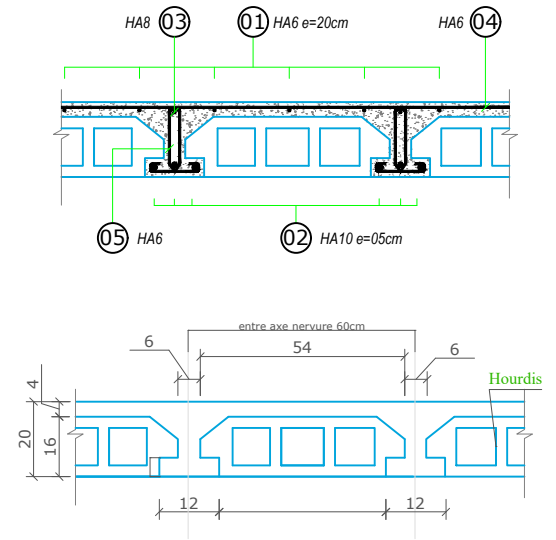
| Pos. | Armature | Code | Forme |
|------|---------------|------|---------|
| 4 | 2HA 12 l=1.37 | 00 | 1.37 |
| 5 | 2HA 10 l=1.34 | 00 | 1.34 |
| 6 | 5HA 6 l=1.08 | 31 | 14 8 |

| | | | | | | | | |
|--|--------------------------------------|--|----------|--|--|--|--|----------|
|  | 1 MINHDU_BAMBOUTOS_POUTRES | CHS.35 : P2 Section 20x40 | Nombre 1 | Tél. Fax | Béton : BETON20 = 0.112 m ³ Surface du coffrage = 1.46 m ² Densité = 47.05 kg/ m ³ Diamètre moyen = 8.51mm | Acier HA 400 = 4.08 kg Acier HA 400 = 1.2 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | Echelle pour la vue 1/20 Echelle pour la section 1/10 | Page 2/2 |
| | | | | Tenue au feu 0h Fissuration peu préjudiciable Reprise de bétonnage : Non | Acier HA 400 = 4.08 kg Acier HA 400 = 1.2 kg Enrobage inférieur 3 cm Enrobage supérieur 3 cm Enrobage latéral 3 cm | | | |

DALLE ET DALLAGE



DALLAGE



**COUPE SUR PLANCHER A
CORPS CREUX
Coffrage - ferrailage**

ESCALIERS

DETAIL ESCALIERS

